OFFICIAL GAZETTE

UNITED STATES PATENT OFFICE

APR. THRU JUNE

VOL. 273 - 275

1920

MICRO PHOTO INC.
CLEVELAND, OHIO

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE.

VOLUME CCLXXIII.

APRIL,

1920.

WASHINGTON
GOVERNMENT PRINTING OFFICE
1920

ERRATA.

1,336,192, page 92, fifty-fifth claim, line 7, after the word "them" insert the word *from.*

1,337,815, page 534, in heading, name of patentee, for "Eduard H. Belden" read *Edward H. Belden.*

1,338,462, page 726, in heading, after residence of patentee insert *assignor to Aktiebolaget Svenska Kullagerfabriken, Göteborg, Sweden, a Corporation of Sweden.*

1,338,552, page 743, in heading, after residence of patentee insert *assignor to Richard H. Wright, Durham, N. C.*

117,667, (Serial,) page 359, Trade-Marks, (Registration Applied for,) name of applicant, for "Grafton and Knight Manufacturing Company" read *Graton and Knight Manufacturing Company.*

117,667, Alphabetical List of Registrants of Trade-Marks, (Registration Applied for,) page xviii, second column, line 39, name of applicant, for "Grafton and Knight Manufacturing Company" read *Graton and Knight Manufacturing Company.* Apr. 13, 1920.

117,667, Alphabetical List of Trade-Mark Titles, (Registration Applied for,) page xxxiv, first column, line 41, name of applicant, for "Grafton and Knight Manufacturing Company" read *Graton and Knight Manufacturing Company.* Apr. 13, 1920.

21,842, page 627, Labels Registered, title, for "(For Bread, Toast, and Muffins.)" read (*For a Spread for Bread, Toast, and Muffins.*)

21,842, Alphabetical List of Registrants of Labels, page xviii, second column, line 48, title, for "(For Bread, Toast, and Muffins.)" read (*For a Spread for Bread, Toast, and Muffins.*) Apr. 20, 1920.

21,842, Alphabetical List of Labels, page xxxv, second column, line 19, title, for "(For Bread, Toast and Muffins.)" read (*For a Spread for Bread, Toast, and Muffins.*) Apr. 20, 1920.

PHOTOGRAPHIC COPY
NOT FOR LOAN

CONTENTS.

	Page.
PATENTS AND DESIGNS GRANTED, April 6, 13, 20, 27	3, 193, 415, 637
TRADE-MARKS PUBLISHED AND REGISTERED, April 6, 13, 20, 27	137, 353, 587, 771
LABELS AND PRINTS REGISTERED, April 6, 13, 20, 27	183, 405, 627, 806
DECISIONS OF THE COMMISSIONER OF PATENTS, April 6, 13, 20, 27	185, 407, 629, 807
INDEX TO THE DECISIONS OF THE COMMISSIONER OF PATENTS	821
ALPHABETICAL LIST OF PATENTEES AND INVENTIONS	1

ANNOUNCEMENTS.

	Page.
ADVERSE DECISIONS IN INTERFERENCE—	
Fernandez, 1,254,896	632
Richards, 131,009	632
Wicks, 1,315,444	819
APPLICATIONS—	
Condition of pending	2, 192, 414, 636
ASSISTANT EXAMINERS—	
Vacancies existing	1, 191, 413, 635
BRIEFS IN APPEALED CASES	1
CLASSIFICATION OF INVENTIONS—	
Changes in—*Order 2,559*	633
Order 2,560	634
Order 2,561	819
Order 2,562	820
Order 2,564	820
Order 2,566	820
DISCLAIMERS—	
Averill, Georgene	190
Landsiedel, Harry	413
DRAWINGS—	
Marking for identification—Rules 38 and 52	191
INTERFERENCE NOTICES—	
Adams, Frank	1
Earle, Walter H	635
PATENT LAWS—	
Amendment to, payment of fees	1, 191, 413, 635
PATENTS—	
List of adjudicated	412, 632, 819

Patents Nos. 1,335,717 to 1,336,406.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 273—No. 1. TUESDAY, APRIL 6, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page
ISSUE OF APRIL 6, 1920	1
INTERFERENCE NOTICE	1
BRIEFS IN APPEALED CASES	1
NOTICE	1
ASSISTANT EXAMINERS WANTED	1
APPLICATIONS UNDER EXAMINATION	2
PATENTS GRANTED	3
REISSUES	132
DESIGNS	135
TRADE-MARKS—REGISTRATION APPLIED FOR	137
TRADE-MARK REGISTRATIONS GRANTED	179
TRADE-MARK REGISTRATIONS CANCELED	182
LABELS AND PRINTS	183
COMMISSIONER'S DECISIONS—	
Bethke *v.* Scannell	185
DECISIONS OF THE U. S. COURTS—	
Scannell *v.* Bethke	186
Æolian Co. *v.* Schubert Piano Co.	186
DISCLAIMER	190

Issue of April 6, 1920.

Patents	690—No.	1,335,717 to No.	1,336,406, inclusive.
Designs	8—No.	54,815 to No.	54,822, inclusive.
Trade-Marks	119—No.	130,024 to No.	130,142, inclusive.
Labels	11—No.	21,766 to No.	21,776, inclusive.
Prints	1—No.	5,239.	
Reissues	4—No.	14,833 to No.	14,836, inclusive.
Total	833		

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., March 12, 1920.

Frank Adams, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Adlerika Company, 98 and 100 South Wabasha street, St. Paul, Minn., for registration of a trade-mark and trade-mark registered May 18, 1897, No. 30,036, to Frank Adams, 51 Broad street, New York, N. Y., and a notice of such declaration sent by registered mail to said Frank Adams at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Frank Adams, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Briefs in Appealed Cases.

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

NOTICE.

AMENDMENT TO PATENT LAWS—PAYMENT OF FEES.

Department of the Interior,
United States Patent Office,
Washington, D. C., March 11, 1920.

Attention is directed to the following excerpt from the deficiency appropriation act, approved March 6, 1920.

R. F. WHITEHEAD,
Acting Commissioner.

Hereafter all patent fees shall be paid to the Commissioner of Patents, who shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury shall direct, and said Commissioner is authorized to pay back any sum or sums of money paid to him by any person by mistake or in excess of the fee required by law.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for April 7-9, May 5-7, and June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business March 27, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Dec. 17	Nov. 12	398
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Aug. 26	Sept. 8	926
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 21	Nov. 7	404
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Aug. 21	Feb. 12	920
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 24	Dec. 28	279
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 18	Jan. 26	515
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 1	Jan. 17	733
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Jan. 23	Feb. 24	336
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Oct. 27	Dec. 31	367
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Sept. 23	Nov. 28	1,006
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Oct. 24	Nov. 12	612
222	12. Machine Elements	Aug. 1	Jan. 15	1,221
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Sept. 3	Feb. 5	1,054
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 2	Jan. 5	489
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 8	Jan. 2	991
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 23	Oct. 23	837
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 9	Feb. 16	256
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 20	Dec. 1	802
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Oct. 13	614
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 3	Dec. 8	647
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 3	Jan. 30	393
249	22. Aeronautics; Firearms; Ordnance	Dec. 19	Feb. 3	247
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 14	Jan. 30	572
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 15	June 5	558
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 13	Feb. 11	182
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	June 25	Aug. 21	727
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Jan. 2	Jan. 28	487
225	28. Internal-Combustion Engines	Nov. 5	Dec. 26	591
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 10	Feb. 15	640
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 6	962
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 22	Sept. 29	918
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 1	Jan. 3	1,054
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 13	Dec. 20	445
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Feb. 27	Mar. 3	159
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Feb. 5	Feb. 21	478
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 8	Dec. 17	1,061
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Oct. 2	Oct. 10	1,243
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 23	Jan. 19	524
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	July 2	Oct. 2	960
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 22	Jan. 29	629
125	41. Resilient Tires and Wheels	Sept. 5	Jan. 14	858
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Oct. 9	Oct. 10	887
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Oct. 9	Dec. 4	630
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 16	Jan. 29	302
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Sept. 22	Jan. 6	709
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Sept. 3	Oct. 31	712

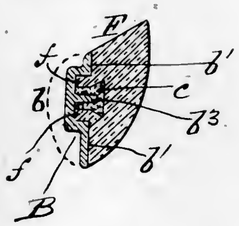
Oldest new case, June 25, oldest amended, June 5.
Total number of applications awaiting action..... 30,395

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 5	Feb. 1	2,809
	Designs	Sept. 16	Jan. 5	1,187
	Labels and Prints	Jan. 2	Jan. 17	674

PATENTS

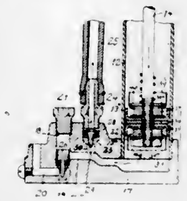
GRANTED APRIL 6, 1920.

1,335,717. ARTIFICIAL TOOTH. WILLIAM ARKIN, New York, N. Y. Filed June 23, 1919. Serial No. 306,253. 2 Claims. (Cl. 32—9.)



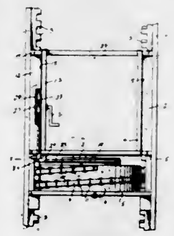
1. An artificial tooth of the character designated, comprising a facing formed with an undercut protuberant socket, a metallic base formed with a recess coincident with said facing socket, and with a stud protruding into said facing socket, and a cement filling positioned in said undercut facing socket and in said recess in the base and around said base stud to form coupling means between said base and said facing, for the purpose described.

1,335,718. TIRE-INFLATING PUMP. HENRY K. AUSTIN, Reading, Mass. Filed Apr. 11, 1919. Serial No. 289,296. 2 Claims. (Cl. 230—27.)



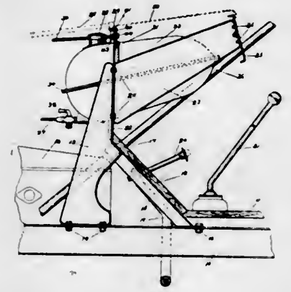
1. A tire-inflating pump comprising a cylinder, a piston therein, a horizontally elongated base attached to the lower end of the cylinder and projecting from one side of the latter, said base having a longitudinal main air conduit communicating at one end with the cylinder, a vertically elongated inlet valve chamber in the outer end portion of said base, having an upwardly facing valve seat at its lower end, and communicating above said valve seat with the opposite end of the main air conduit, an air inlet conduit in the base communicating at one end with the atmosphere, and at the other end with the inlet valve chamber, below the valve seat in the latter, an inlet valve movable vertically in the inlet valve chamber, and weighted to normally close by gravity on the seat of said chamber, the inlet valve being raised by suction in the main air conduit when the piston is rising, and an imperforate plug closing the upper end of the inlet valve chamber, and forming a stop arranged to permit the inlet valve to rise above the main air conduit, so that free passage of air from the inlet air conduit to the main air conduit is permitted when the inlet valve is raised, the said base being provided with an outlet valve chamber communicating with the main air conduit between the inlet valve chamber and the cylinder, and with an outlet valve in said outlet valve chamber, opened by pressure in the main conduit when the piston is descending, and closed both by gravity and by suction in the main conduit when the piston is rising.

1,335,719. ELEVATOR. DIEUDONNE A. BEAUDRY, Gilbertville, Mass. Filed Oct. 24, 1919. Serial No. 332,939. 2 Claims. (Cl. 187—25.)



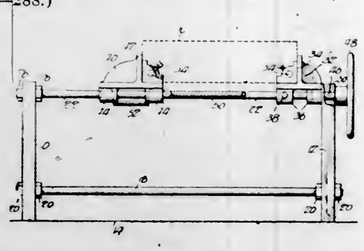
1. In an elevator, the combination with vertical parallel tracks having opposed teeth spirally arranged, of an elevator operatively engaging said tracks, a member rotating in a horizontal plane and being carried by the car, said rotating member having a spiral anti-frictional thread engaging the teeth of the tracks, said spiral anti-frictional thread comprising a spiral band in surrounding relation to the periphery of the rotating member and being spaced therefrom, anti-frictional rollers journaled between the band and the periphery of the rotating member, and a driving element carried by the car and being operatively connected with the rotating member for imparting motion thereto.

1,335,720. MOTOR-VEHICLE. EDWARD HALE BELDEN, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed June 15, 1918. Serial No. 240,112. 16 Claims. (Cl. 180—90.)



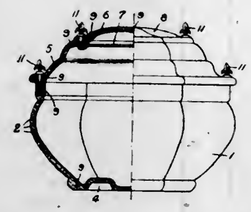
1. In a motor vehicle, the combination of a vehicle frame, a pair of separate standards carried by said frame, a dash secured to said standards and a fuel tank projecting through said dash and adapted to be supported thereby.

1,335,721. HEAVY SQUARING-CLAMP. OSCAR BERGSTROM, Chicago, Ill., assignor to Handy Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 17, 1919. Serial No. 338,565. 3 Claims. (Cl. 144—288.)



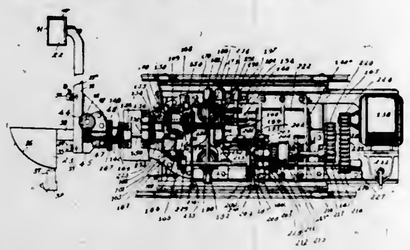
1. In mechanism of the class described, a pair of vertical end frames, parallel rods top and bottom of the machine, two of them being at the top, detachably connecting said end frames, a front plate mechanism supported by and detachably secured to the top rods in rigid engagement with one end frame, a cross head slidable on the upper rods carrying a back plate in parallelism with said front plate and means for reciprocating the cross head.

1,335,722. CASKET. LOUIS PHILIPPE HERMENEGILDE BOURK, Nicolet, Quebec, Canada. Filed June 26, 1919. Serial No. 306,782. 3 Claims. (Cl. 27—7.)



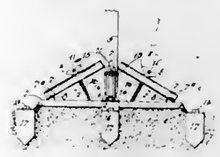
1. A casket comprising body and cover parts constructed of cementitious material, one of said parts having embedded in it a network of wires, and horizontal rods to which the wires are attached at opposite ends; alining tubular members embedded vertically in said body and cover, the members in the body being internally threaded; retaining means on the members embedded in the part containing the wire network, said means engaged at opposite ends with the wires and rods; and locking screws inserted through the cover members and engaged in the internally-threaded body members.

1,335,723. TUNNELING-MACHINE. LE ROY W. CAMPBELL, Grand Rapids, Mich. Filed Aug. 18, 1915. Serial No. 46,202. 17 Claims. (Cl. 262—7.)



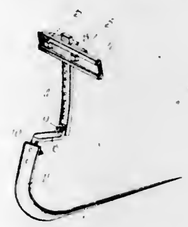
7. A tunneling machine comprising a rotatable radially-movable cutter, means for causing movement of said cutter comprising a shaft, mechanical means for preventing movement of said shaft, and transmission means between said shaft and cutter whereby when movement of said shaft is prevented said cutter will be moved in one direction, and whereby when said shaft is rotated the cutter will be moved radially in the other direction.

1,335,724. ADJUSTABLE HOLDER. ANDROW H. CARLSON, Bridgeport, Conn., assignor to Presteel Mfg. Company, Bridgeport, Conn. Filed Nov. 8, 1919. Serial No. 336,720. 1 Claim. (Cl. 248—38.)



A metal holder of the character described, comprising two channel iron base plates, a centrally located bolt connecting the base plates, said bolt having a pointed end, means integral with one plate engaging the other plate to maintain the latter at right angles to the former, inclined side braces having openings at their outer ends, means integral with the base plates interlocking with said openings, bolts projecting through the base plates and side braces, means connected with said bolts to exert a downward pressure on the side braces, and springs adapted to exert an outward pressure on the braces when the downward pressure has been released.

1,335,725. CULTIVATOR. SAMUEL CLEMENS, Hennepin, Ill. Filed Feb. 10, 1919. Serial No. 276,062. 2 Claims. (Cl. 97—11.)



2. In a cultivator, in combination, a plow beam, a standard provided with longitudinally disposed perforations in the upper portion thereof and with a clutch member formed upon the lower end thereof, means for fixing the standard to the plow beam, an offsetting member comprising a vertically disposed spindle portion for attachment of a cultivator blade and an offsetting reach portion at right angles thereto provided with a clutch member thereon adapted for engagement with the clutch member on the standard, whereby the offsetting member may be adjusted to incline the cultivator blade supporting spindle at different angles, and means for connecting the offsetting means to the standard in a manner to interlock the related clutch members.

1,335,726. STAND. NELSON DE LONG, Chicago, Ill. Filed Sept. 25, 1915. Serial No. 52,565. Renewed Aug. 15, 1919. Serial No. 317,787. 4 Claims. (Cl. 248—41.)

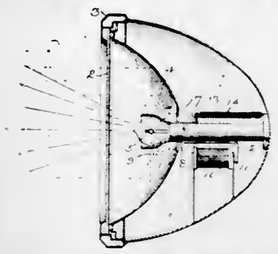
1. A tubular standard, legs having their upper ends in the form of sectors so constructed that when the legs are united the sectors form a cylinder fitting the interior of the standard, and a bolt serving to spread the sectors to force their exterior surfaces in contact with the interior of the standard.

4. In a stand, a tubular standard, legs inserted in the standard, stops on the legs to limit the insertion of the legs in the standard, beveled faces on the inner edge of the upper ends of the legs, a bolt having its head in contact with the beveled faces of the legs, and a nut for the bolt by which frictional contact is maintained between



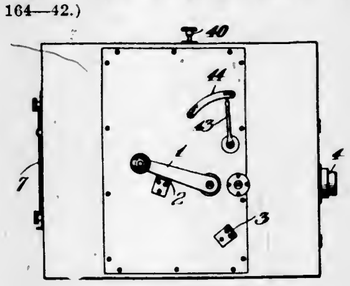
the beveled faces of the legs and the bolt and a consequent friction between the legs and the tubular standard.

1,335,727. LAMP-DIMMER. CHARLES W. EISELE, Flint, Mich. Filed July 10, 1916. Serial No. 108,515. 3 Claims. (Cl. 240—45.)



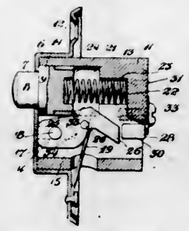
1. In a lamp, a housing, a reflector in the housing having an opening in the apex thereof, a lamp, a substantially cylindrical stem extending through said opening and secured at its rear end to the housing and carrying said lamp at its front end, a sleeve longitudinally slidable on said stem and having its front end flared to inclose the lamp, said flared end of the sleeve being movable through the reflector opening, and means to move the sleeve longitudinally of and on the stem.

1,335,728. PHOTOGRAPHIC CAMERA. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 2, 1919. Serial No. 269,333. 6 Claims. (Cl. 164—42.)



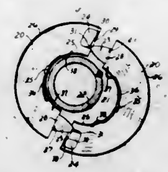
1. In a photographic film camera, the combination with a film feeding device, of a knife having one movement to notch the film and another movement to sever it and two selectively actuated operating members for effecting such movements.

1,335,729. SHORT-CONTACT PUSH-BUTTON. WILLIAM GADKE, Philadelphia, Pa. Filed Aug. 11, 1916. Serial No. 114,408. 4 Claims. (Cl. 200—159.)



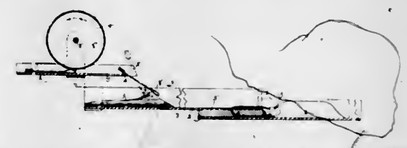
1. In a push button, a front plate, an insulating body secured thereto, a button movable within the body, spring return for said button, a movable plate directly engaged by said button and given part of its movement thereby and separate spring-pressed means for giving the plate final movement, first to cause it to rest against the side of the button and, when the latter has returned to its initial position, to cause the plate to move transversely of the button ready for a second engagement by it.

1,335,730. CEILING AND FLOOR PLATE. ARTHUR C. GAYNOR, Stratford, Conn. Filed May 26, 1919. Serial No. 299,764. 3 Claims. (Cl. 126—317.)



3. A plate member of the character described having a semi-circular recess, upon one side of said recess a tongue having a locking notch and upon the other side of said recess a keeper having a locking wall, the top of the member inclining downward and outward from the recess to the edge and the tongue being offset and lying considerably obliquely to the incline.

1,335,731. TRANSIT-CHUTE FOR SAFETY-PIN-CARDING APPARATUS. CHARLES B. GOLDSMITH, Waterbury, Conn. Filed Apr. 23, 1917. Serial No. 163,931. 6 Claims. (Cl. 163—8.)

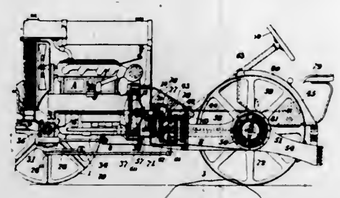


1. A chute for the transit, successively and each solely by its own gravity, of safety-pins or the like, consisting of a channel-forming structure, one section of the base of which is depressed relatively to the next preceding section thereof; an end-for-end pin reverser on the base-section of the lower level; and a pin-releasing tongue, at the delivery end of the base-section of the higher level, said tongue suitably overlying said reverser.

1,335,732. MOTOR-TRACTOR. WILLIAM GUTHRIE, Motherwell, Scotland, assignor of one-half to Duncan McNaughton Wallace, Dennistoun, Glasgow, Scotland. Filed Apr. 14, 1919. Serial No. 289,787. 36 Claims. (Cl. 180—26.)

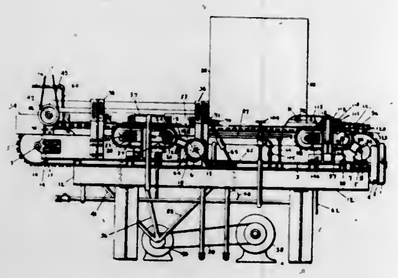
1. A tractor for agricultural and other work having two front driving and steering wheels, an intermediately

disposed wheel in rear of the driving and steering wheels, means for steering the front wheels, means whereby the three wheels are positively driven in conjunction when



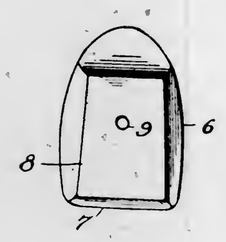
the tractor is traveling straight forward and only one of the front wheels and the rear wheel when the tractor is turning, and means for operating said last mentioned means.

1,335,733. VIAL-MACHINE. HENRY F. HAGEMEYER, Toledo, Ohio, assignor, by mesne assignments, to John N. Willys, Toledo, Ohio. Filed May 25, 1914. Serial No. 840,707. 7 Claims. (Cl. 49—7.)



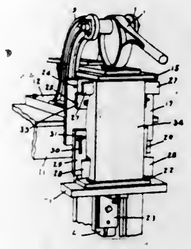
1. In a machine of the class described, the combination of a conveyer; means for driving said conveyer; means for mounting a plurality of cylindrical blanks on said conveyer; and a pair of oppositely driven rollers extending longitudinally of the conveyer and adapted to contact with said blanks to force the ends thereof in opposite direction.

1,335,734. ANTERIOR TOOTH AND BACKING. FRANK Z. HANSCOM, Elmhurst, Ill. Filed Dec. 3, 1917. Serial No. 205,200½. 1 Claim. (Cl. 32—9.)



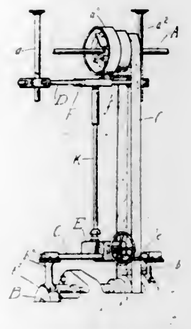
An anterior tooth having a plane lingual surface, and having plane beveled side surfaces extending from the lingual surfaces to the labial surface and meeting the labial surface at the sides of the tooth, said side surfaces diminishing in width from the cervical end toward the cutting edge of the tooth.

1,335,735. BOX-FORMING MACHINE. MICHAEL HESS, Indianapolis, Ind., assignor to International Printing Company, a Corporation of Indiana. Filed Dec. 15, 1919. Serial No. 344,903. 6 Claims. (Cl. 93—36.)



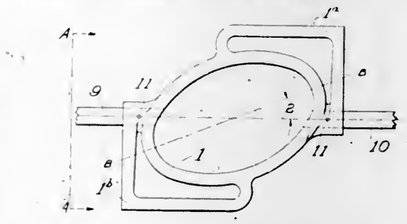
1. The combination with a post adapted to receive and support a box structure, of a pivotally mounted presser block above said structure, and means beneath said box structure coöperating therewith and with said presser block for simultaneously sealing both ends of a box blank.

1,335,736. BELT-SHIFTER. GEORGE E. JACKSON, Cincinnati, Ohio, assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 15, 1919. Serial No. 330,863. 3 Claims. (Cl. 64—4.)



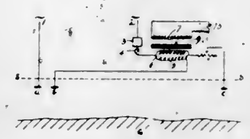
1. A belt-shifter comprising a pair of racks and pinions, an actuator shaft adapted to actuate either of the pinions, a manually operated selective mechanism for putting either one of the pinions under the domination of the actuator shaft and means for coupling a belt to the pinions.

1,335,737. DOUGH-MIXING MACHINE. FRANK M. JONES, Boston, Mass. Filed Aug. 29, 1919. Serial No. 320,680. 2 Claims. (Cl. 259—99.)



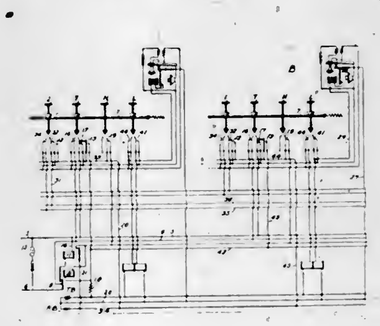
1. In a dough mixing machine, the combination comprising a receptacle and an agitator therefor; said agitator being in the form of an oval with an axis of rotation at an obliquity with the axis of the oval, said oval having its greatest width midway of its length.

1,335,738. SYSTEM OF ELECTRICALLY INDICATING ON BOARD SHIP THE DEPTH OF SEA-WATER. YOSHINAO KAWAKITA, Hongo-Ku, Tokyo, Japan. Filed July 5, 1918. Serial No. 243,457. 6 Claims. (Cl. 175—265.)



1. A system of electrically indicating the depth of sea water, consisting of three electrodes attached to a side of a ship and placed at unequal distances below sea-level to form two branched circuits fed with an alternating current, an adjustable differential transformer, to which the said three electrodes are connected for balancing the effects of the currents in these two circuits on its secondary, a galvanometer in the secondary circuit of the said transformer for indicating the said balancing and also the amount of disturbance due to the changes of apparent resistance of sea-water between one pair of the said electrodes according to the proximity of the ground, and a current regulator in the feeding circuit of the said alternating current.

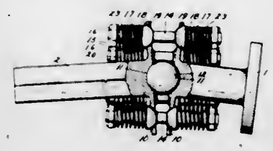
1,335,739. TELEPHONE SYSTEM. CHARLES W. KECKLER, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 2, 1917. Serial No. 194,304. 3 Claims. (Cl. 179—40.)



1. In a telephone system in combination, a plurality of subscribers' stations, a trunk circuit multipled to the stations, a telephone set at each station adapted to be connected with the trunk circuit, a bridge including a relay for holding the trunk circuit in substitution of a telephone set, switching means including a relay energized over a circuit independent of the telephone sets controlling such substitution, a locking circuit for the second relay established upon the energization of the bridged relay, a switching device for connecting a telephone set with the trunk circuit, and a disabling circuit for the second relay established upon the actuation of the switching device.

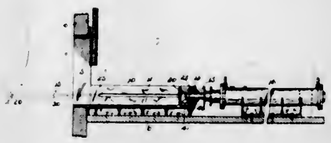
1,335,740. UNIVERSAL JOINT. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio. Filed May 23, 1917. Serial No. 170,471. 9 Claims. (Cl. 64—96.)

1. A universal joint comprising a drive shaft, a driven shaft, a disk carried by the adjacent ends of each of said shafts, a centrally disposed bearing for holding said shafts in spaced relation, a plurality of bolts extending loosely through said disks, springs carried by the ends



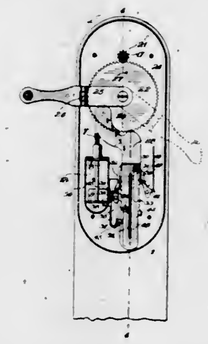
of said bolts having their inner ends supported by said disks in a manner to effect expansion of one set of springs and contraction of the opposite set when said shafts are moved out of alinement.

1,335,741. CHARGING MECHANISM FOR CUPOLAS. LYMAN W. KELLUM, Birdsboro, Pa. Filed May 5, 1919. Serial No. 294,838. 5 Claims. (Cl. 214—23.)



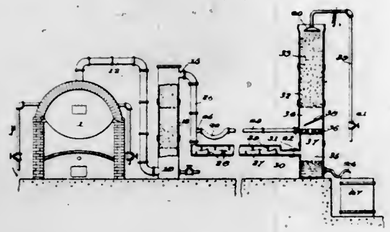
1. In a charging mechanism comprising a charge container forming a furnace feed-way extension; a headed pusher rod, means for horizontally projecting the same through said feed-way and into the furnace chamber, and supporting means for the projected rod, movable with the latter during the latter portion only of the projecting movement.

1,335,742. FILM-WINDING MECHANISM. ROBERT KROEDEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 12, 1917. Serial No. 196,167. 6 Claims. (Cl. 242—71.)



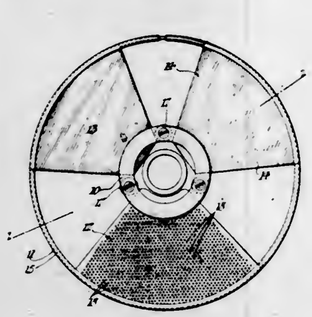
1. In a film winding device for cameras, the combination with a winding roll and winding mechanism operatively connected therewith and embodying a rotary element having an abutment thereon, of a stop member having a plurality of stepped stops thereon adapted to be moved successively across the face of the rotary element into the path of the abutment.

1,335,743. APPARATUS FOR PRODUCING HYDROCHLORIC ACID. HENRY M. LASHER, Kansas City, Kans., assignor to The Kansas City Refining Company, Kansas City, Kans. Original application filed May 9, 1916, Serial No. 96,430. Divided and this application filed July 13, 1917. Serial No. 180,388. 6 Claims. (Cl. 23—1.)



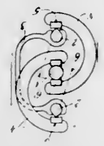
2. In apparatus for making hydrochloric acid, a still, a gas conveyer, and an absorber provided with baffle plates, with means to produce a circulation of water mixed with the gas from the conveyer, through the absorber into a receiving chamber.

1,335,744. MOVING-PICTURE SHUTTER. JOSEPH H. LEHMAN, New York, N. Y. Filed June 8, 1915. Serial No. 32,820. 10 Claims. (Cl. 88—19.3.)



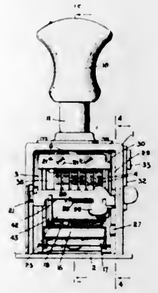
8. In a shutter for moving picture machines, a carrier, a plurality of sectors radially mounted on said carrier, a rim U-shaped in cross section around the outer edge of said sectors, and means held in said rim between adjacent sectors for bracing the same.

1,335,745. PIVOT. BENJAMIN LIEBOWITZ, New Rochelle, N. Y. Filed May 16, 1919. Serial No. 297,688. 6 Claims. (Cl. 74—104.)



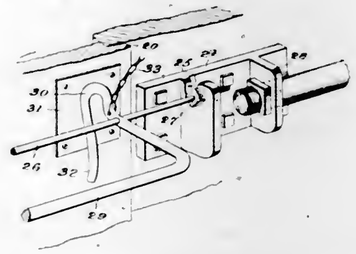
1. A pivot of the character described comprising a pair of rocker-pins carried by one of the parts to be pivoted; a gudgeon, disposed intermediate the rocker-pins with its axis co-planar therewith, and carried by the other part to be pivoted; and links connecting each rocker-pin with the gudgeon, said links being subjected to an initial tension greater than one-half of the maximum load which the pivot is designed to carry.

1,335,746. NUMBERING-STAMP AND THE LIKE. ALBERT MARKS, New Britain, Conn. Filed June 12, 1918. Serial No. 239,645. 12 Claims. (Cl. 101—83.)



10. In a numbering stamp and the like, a main frame, a rotatable type wheel, a carrier therefor mounted to move in said frame, a comb coöperating with said type wheel, a member carrying said comb, means for advancing said type wheel automatically upon movement of the carrier, the means for effecting automatic movement comprising a cam on said comb carrying member and a relatively stationary shoulder on the main frame for coaction with said cam, and a stop shoulder on said main frame for coaction with another part of said comb carrying member when said stop shoulder is in one position.

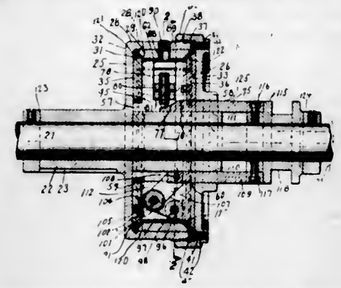
1,335,747. SILO. THOMAS K. MASSIE, Athens, W. Va. Filed July 22, 1916. Serial No. 110,711. 2 Claims. (Cl. 20—14.)



1. A silo having a door way, a door, a hoop terminating at each side of the door, brackets secured at the door sides, to which said hoops are connected a door clamp in the form of a bar that extends across the door, and pivotally and removably connected to said brackets on an axis that extends crosswise of the doorway, and having a cam-form door engaging member with a stop finger to limit the downward swing of the bar.

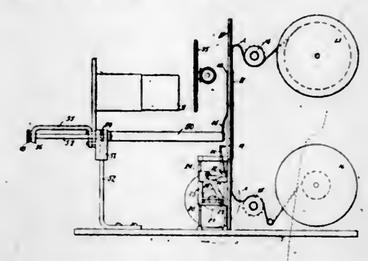
1,335,748. FRICTION-CLUTCH. ANTON MILL, Cincinnati, Ohio. Filed May 22, 1919. Serial No. 298,836. 6 Claims. (Cl. 192—13.)

1. In a friction clutch, the combination of an annular friction-band and a friction-disk at each edge of said friction-band, parts which coact with said friction-band and said friction-disks to transmit motion, said annular friction-band and each of said friction-disks being beveled at their proximate edges whereby the inner ends of said friction-disks extend within said friction-band and the outer edges of said friction-disks extend within the cylin-



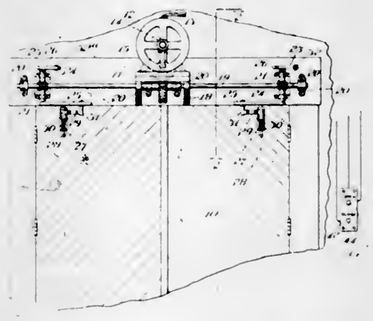
drical projection of the outer periphery of said friction-band, and means for expanding said friction-band and separating said friction-disks for coaction with said parts to transmit motion.

1,335,749. FRAMING DEVICE FOR MOTION-PICTURE MACHINES. WALTER PARKES, Cleveland, Ohio, assignor, by mesne assignments, to Henry C. Osborn, Cleveland, Ohio. Filed Jan. 10, 1918. Serial No. 211,119. 3 Claims. (Cl. 88—17.)



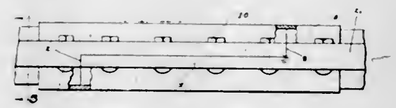
1. The combination of a film guide having an opening, a member vertically adjustable relative to said opening, a framing plate spring pressed against said film guide, said framing plate having a downwardly extending arm secured to said member, and a lens carrier also supported by said member in axial alinement with the center of the opening in the framing plate.

1,335,750. CONTROLLING MECHANISM FOR DOORS AND THE LIKE. FRED N. PEARSON, Chicago, Ill. Filed Sept. 28, 1916. Serial No. 122,615. 7 Claims. (Cl. 268—9.)



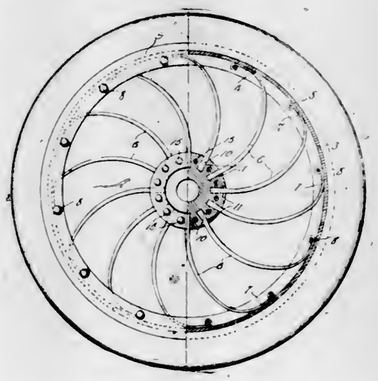
1. Controlling mechanism of the class described, comprising, in combination with a door, a main operating shaft disposed transversely above the door, a slotted member arranged to oscillate about an axis disposed perpendicular to said main shaft, worm-gearing intermediate of said shaft and slotted member whereby the latter is oscillated when the former rotates, a controlling member yieldingly secured to the door and adapted to extend into the slot of said slotted member to be controlled thereby whereby the door is swung in direction similar to the direction of oscillation of the slotted member, an electrically driven motor operatively connected with said main shaft, magnetic means adapted to control the motor circuit, means whereby said magnetic means are controlled, and means intermediate of said slotted member and said second mentioned means whereby a portion of the second mentioned means is actuated and the magnetic means affected when the door has swung predetermined distances.

1,335,751. RAIL-JOINT. GEORGE WASHINGTON PROBST, Lock Haven, Pa., assignor of one-third to Ray S. Probst and one-third to Verne Probst, Lock Haven, Pa. Filed Nov. 22, 1919. Serial No. 339,784. 3 Claims. (Cl. 238—179.)



1. A pair of rails having reduced overlapped parts defining transverse shoulders, the end of said part of one rail coöperating with the shoulder of the other rail, said parts having longitudinal grooves at their inner surfaces communicating with transverse seats formed in the shoulders, each part having a terminal notch complemental to the seat in the shoulder of the other rail; a key in the grooves and provided with oppositely extended projections received in the seats and in the notches; and means for retaining the rails against lateral separation.

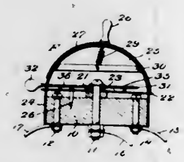
1,335,752. RESILIENT WHEEL. NICHOLAS RATCHFORD, Saratoga, Ind. Filed Aug. 1, 1918. Serial No. 247,718. 1 Claim. (Cl. 152—50.)



In a spring wheel construction, a hub, a plurality of arcuate spring spokes which taper from their inner ends outwardly, means for rigidly clamping the inner ends of the spokes within the hub, a channeled rim of U shape in cross section comprising continuous side walls and a connecting transverse portion and means for pivoting the outer ends of the spokes within said channeled rim substantially at the juncture of said side walls and said transverse portion so that the outer faces of the spokes will contact with the inner face of said transverse portion through increasing portions of their length and the

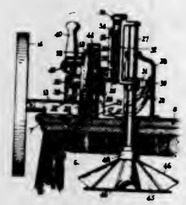
edges of the spokes along and adjacent said contacting portions move in between the side walls of the U shaped rim as load is brought upon the wheel and the springs are flexed, whereby the effective lengths of the springs are shortened and the spokes are braced against lateral movement to simultaneously increase the strength and rigidity of the springs and to brace them against lateral movement to an extent proportionate to the load upon the wheel.

1,335,753. ELECTRIC-LIGHT SWITCH. FLETCHER S. RIGGS, Marshall, Tex. Filed July 26, 1919. Serial No. 313,444. 4 Claims. (Cl. 200—153.)



1. A switch of the character described comprising a supporting base, a bolt extending centrally therethrough, a plurality of contact bolts disposed about said central bolt and arranged in pairs, contact strips disposed upon said central bolt and arranged in spaced relation to said pairs of bolts, a casing connected with said base and having a semispherical portion, said casing being provided with openings for the passage of the end portions of said strips, and a partially spherical operating shell slidable upon the semispherical portion of said casing whereby to engage and depress one end of one of said contact strips into engagement with the adjacent bolt.

1,335,754. OPERATING DEVICE FOR WASHING-MACHINES. DAVID D. RULLMAN, Omaha, Nebr. Filed Jan. 18, 1918. Serial No. 212,800. 5 Claims. (Cl. 74—50.)



1. In a washing machine having a reciprocating dasher-shaft, actuating means for said dasher-shaft comprising an annular gear having a dished web-portion, a pinion disposed within said gear and meshing therewith, a supporting arm extending between said pinion and the web-portion of the annular gear and carrying studs on which the gear and pinion are revoluble, a crank-pin on said pinion, means connecting said crank-pin with the dasher-shaft, and means for actuating said annular gear.

1,335,755. PROCESS FOR PERMANENTLY PRODUCING PICTURE OR LIKE EFFECTS UPON ENAMELED METAL SURFACES. ROBERT SANDBY, Chicago, Ill. Filed Sept. 5, 1918. Serial No. 252,800. 3 Claims. (Cl. 41—33.)

1. The herein described process of producing picture or like effects upon an enameled surface consisting in first cleaning the enameled surface, then laying thereon a uniform coat of a suitable gum varnish and allowing the same to partially set, then transferring the picture thereto, by first printing the matter to be transferred on transper paper with printer's ink, dusting the same evenly with a metallic oxid mixed with silica and pressing the same evenly upon the varnished surface, allowing the same to set and carefully removing the paper, and after allowing the surface to dry dusting the same with a flux that will fuse at a comparatively low temperature and firing the same, substantially as described.

1,335,756. ROOFING. TRUMAN MERRILL SCARFF, Springvalley, Ohio. Filed Apr. 22, 1915. Serial No. 23,103. 5 Claims. (Cl. 108—9.)

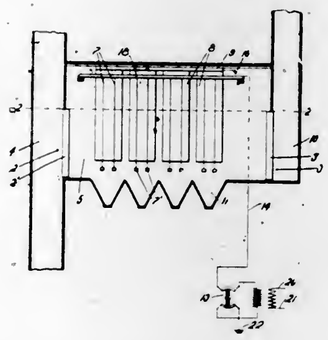


1. In a sheet metal roof construction, the combination with metallic sheets, of nails driven therethrough, the heads of said nails being of hard metal and being recessed on their under sides contiguous to the shanks thereof, and a body of elastic adhesive material located in the said recesses of the nail heads and adapted to seal the puncture through which the nail passes.

1,335,757. RUST-PREVENTING COMPOSITION. CHRISTIAN SCHMID, Philadelphia, Pa. Filed Sept. 23, 1919. Serial No. 325,712. 12 Claims. (Cl. 134—53.)

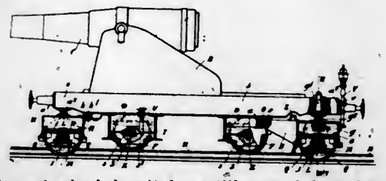
12. A composition of matter comprising substantially five parts by weight of beeswax, two parts of turpentine, five parts of a fat and an extract derived from four parts of onions.

1,335,758. PROCESS FOR CLASSIFYING FINELY-DIVIDED MATERIAL. WALTER A. SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Original application filed Feb. 18, 1915, Serial No. 9,066. Divided and this application filed Aug. 28, 1916. Serial No. 117,183. 4 Claims. (Cl. 183—114.)



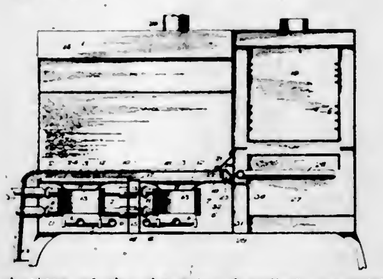
1. The process of selectively separating particles of different size suspended in a gas, which consists in passing the gas successively, at substantially uniform velocity through a series of electric fields of substantially similar intensity and substantially uniform cross-sectional area to produce a succession of electrical actions on the gas in such manner as to precipitate successively particles of progressively smaller size and collecting separately the different sizes of precipitated particles.

1,335,759. ROAD WHEELED UNIT FOR ARTILLERY AND FOR OTHER PURPOSES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Sept. 13, 1918. Serial No. 253,988. 22 Claims. (Cl. 105—189.)



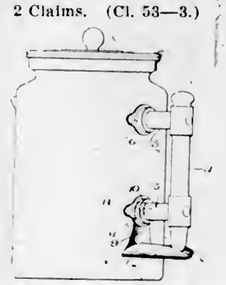
1. A road wheeled unit for artillery and for other purposes comprising a unit frame connected to the carriage frame and provided by means of elastic suspension devices with suitable supports to which are jointed, by means of pivots parallel to the longitudinal axis of the frame, axles of suitably reduced length provided with a wheel at each end.

1,335,760. STOVE. JAMES G. SCOTT, Washington, D. C. Filed July 2, 1917. Serial No. 178,056. 11 Claims. (Cl. 126—39.)



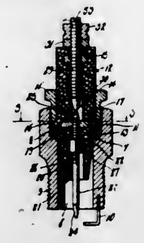
10. A stove of the character described, comprising a plurality of burner compartments, a horizontal space coextensive with the compartments and common to both, an air supply conduit communicating with the horizontal compartment above one burner compartment, a supplementary air supply conduit communicating with the horizontal compartment, adjacent to the other burner compartment and a movable closure for one of said air conduits, said closure being adapted to move from a position closing communication between its air conduit and the horizontal compartment to a position separating the horizontal compartment into two sections which latter are in communication respectively with the aforesaid air supply conduits.

1,335,761. UTENSIL-GUARD. GEORGE J. SEBALD, Milwaukee, Wis., assignor of one-half to Albert J. Holzbauer, Milwaukee, Wis. Filed Nov. 26, 1919. Serial No. 340,727. 2 Claims. (Cl. 53—3.)



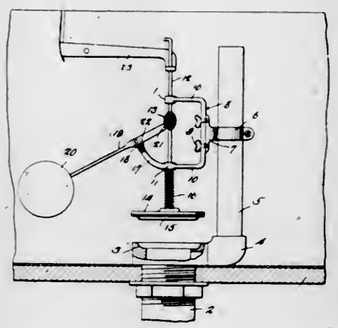
1. The combination, with a utensil provided with a wooden handle, of a metal guard secured to said utensil and having a spoon-shaped portion disposed below and in line with said handle to deflect the heat therefrom.

1,335,762. SPARK-PLUG. DAVID S. SHORT, Indianapolis, Ind. Filed Nov. 26, 1917. Serial No. 204,023. 2 Claims. (Cl. 123—169.)



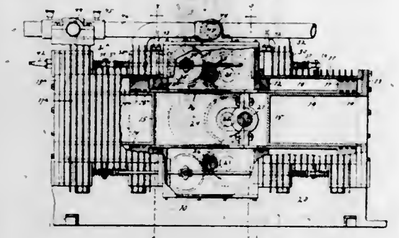
1. A spark plug, comprising a metallic shell having a shoulder formed interiorly thereof, a sectional insulator core, the lower section of which is provided at the top with an exterior flange adapted to be seated on the interior shoulder of the shell, the upper section of said core having a flange at its lower edge adapted to rest upon the flange portion of said lower section, the bore extending through the sectional insulator, the lower end being of an enlarged diameter and a sectional electrode adjustably mounted within said bore, one section of said electrode positioned to depend within the bore of the upper insulator section, the other electrode section adjustably disposed within the enlarged bore of the lower insulator section and adjusting means within the larger bore for projecting the lower electrode partially into the bore of the upper insulator section, to create a secondary spark gap with respect to the other electrode section and within the bore of the upper insulator.

1,335,763. CLOSET FLUSH-VALVE. EDMUND G. STOLTZ, Granite City, Ill. Filed June 3, 1919. Serial No. 301,397. 1 Claim. (Cl. 4—5.)



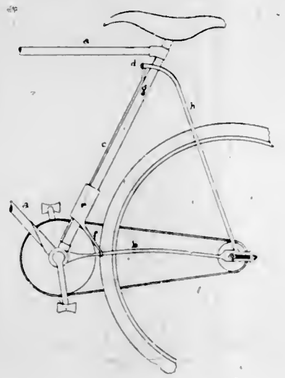
In a device of the class described, a flush tank having an outlet, a lever, a bracket whereon the lever is fulcrumed intermediate its ends, a float on the outer end of the lever, the bracket including a part coöperating with the inner end of the lever to limit the downward movement thereof under the buoyant action of the float, a stem under the control of an operator and slidable in the bracket, a valve carried by the stem and controlling the outlet, a spring carried by the stem and exerting pressure on the valve, and an oval shaped abutment on the stem and engaging the inner end of the lever to hold the valve in open position when the inner end of the stem coöperates with said part of the bracket, the inner end of the lever being arcuate, whereby when the level of the liquid in the tank has fallen below the float, the abutment will exert a positive lifting action on the inner end of the lever, independently of the weight of the float, thereby releasing the valve for downward movement.

1,335,764. INTERNAL-COMBUSTION ENGINE. PATRICK J. MONAHAN SULLIVAN, Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y., a Corporation of New York. Filed May 10, 1918. Serial No. 233,657. 3 Claims. (Cl. 121—59.)



1. A pair of rigidly connected alined cylinders, separate cylinder heads at the inner and outer ends of each cylinder, pistons within said cylinders, a piston rod connecting said pistons, separate inlet and exhaust ports at each end of each cylinder, means for imparting to said cylinders a planetary movement in one direction and to said pistons a planetary movement in the opposite direction while maintaining their common axis in parallelism with an initial position.

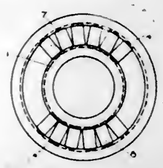
1,335,765. ELASTIC SUSPENSION OF CYCLES. EUGÈNE LOUIS VIARD, Bar-sur-Seine, and FIRMIN ALBERT BOUILLIT, Levallois-Perret, France. Filed Sept. 4, 1919. Serial No. 321,705. 2 Claims. (Cl. 208—97.)



1. An elastic suspension for cycles, characterized by the combination of two rigid tubes, the lower ends of which bear upon an elastic fork at the level of the rear hub, with an elastic metal plate fixed against the saddle carrying tube, the elastic plate being held in position by a sleeve provided with an oblique arm which serves as a buttress or shoulder for the flexible fork.

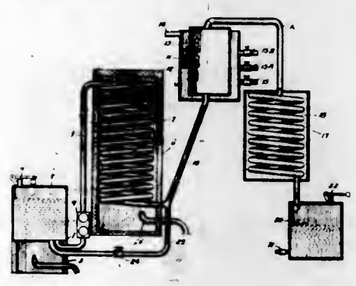
1,335,766. ROLLER-BEARING. ERNST HJALMAR WALODDI WEIBULL, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Apr. 26, 1919. Serial No. 292,926. 1 Claim. (Cl. 64—39.)

The method of inserting rollers into double roller bearings consisting in arranging the rollers at right angles to their normally operative positions and inserting them into the adjacent roller races and pushing them close together along opposite halves of the interspaces between the bearing-rings, and finally simultaneously turning one roller in each race severally into their normally operative



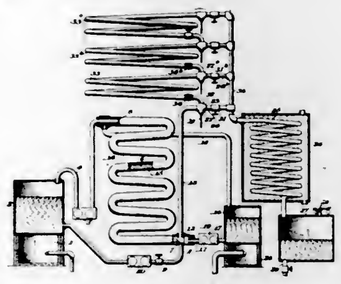
positions and moving them along the raceways at equal distances on the unoccupied portions of the interspace between the bearing-rings.

1,335,767. APPARATUS FOR REFINING OIL. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Sept. 15, 1915. Serial No. 50,775. 3 Claims. (Cl. 196—3.)



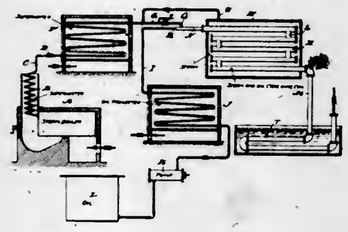
1. The combination of a preheater, means to heat the same to a point just below the vaporizing temperature of contained oil or distillate, means to maintain the pressure therein at a relatively low point, a superheater, a conduit leading from the lower portion of the preheater to the superheater, means for heating the superheater to a relatively high temperature, a pump in said conduit for drawing liquid from the preheater and effecting compression within the superheater, and means for maintaining pressure on the oil and the vapors formed in the superheater.

1,335,768. PROCESS OF AND APPARATUS FOR REFINING LIQUID HYDROCARBONS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Original application filed June 7, 1915, Serial No. 32,704. Divided and this application filed Dec. 30, 1915. Serial No. 69,499. 8 Claims. (Cl. 196—25.)



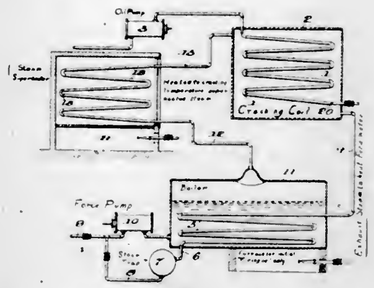
4. Apparatus for refining liquid hydrocarbons comprising a source of supply of the hydrocarbon, means to vaporize the hydrocarbon, a retort adapted to resist high pressures, means connected between the source and the retort adapted to take in hydrocarbon vapor at low pressure from the source and deliver the same under compression to the retort, a source of power for said compressing means, means independent of the compressing means and of its source of power, to heat the retort and its contents while under high pressure, to a temperature high enough to break down the molecules of the hydrocarbon, selective means connected to receive the product from the retort and adapted to separate the different constituents of said product, and a plurality of pipe connections to carry off the separated products from said selective means, said selective means being arranged to receive the product in a constantly upward movement therethrough from near the bottom of the retort.

1,335,769. SYSTEM FOR CRACKING MINERAL OIL. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Oct. 7, 1916. Serial No. 124,327. 1 Claim. (Cl. 196—25.)



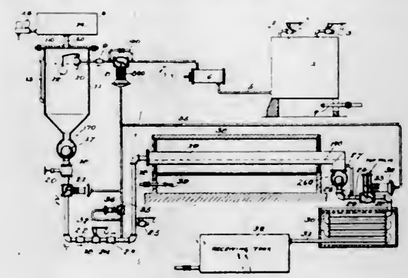
An apparatus for treating hydrocarbon oil consisting of a cracking coil in a steam jacket insulated to prevent loss of heat, means for feeding preheated oil into said cracking coil, means to simultaneously feed superheated steam in a whirling spray into the oil in said coil, and to also simultaneously feed superheated steam from the same source into the steam jacket around the coil.

1,335,770. SYSTEM FOR TREATING HYDROCARBON OILS. FRANK E. WELLMAN and FREDERICK H. SIBLEY, Kansas City, Kans., assignors to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Oct. 19, 1916. Serial No. 126,629. 4 Claims. (Cl. 196—25.)



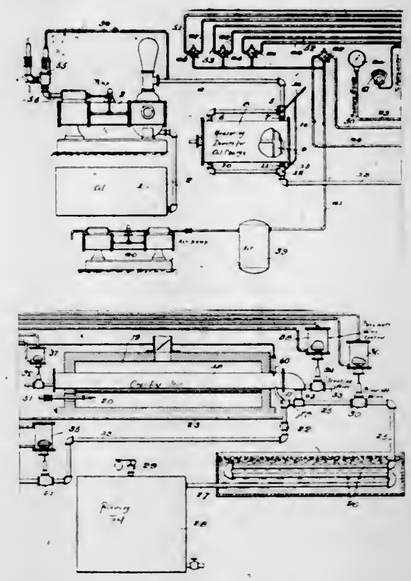
1. In a system for treating hydrocarbon oils, a cracking still, a steam chamber for heating said still, means for passing the hydrocarbons under suitable cracking pressure through said still, a water boiler or vaporizer, a superheater, external means for supplying heat to said superheater, pipe connections from said boiler to said superheater, and from the latter to the steam chamber of the still, means for conducting the exhaust superheated steam from the still heating chamber into contiguity with the water in the boiler, and means to force the water and steam from the boiler to the superheater, to maintain the circulation in the entire heating system.

1,335,771. APPARATUS FOR CRACKING HYDROCARBONS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Jan. 15, 1917. Serial No. 142,545. 5 Claims. (Cl. 196—25.)



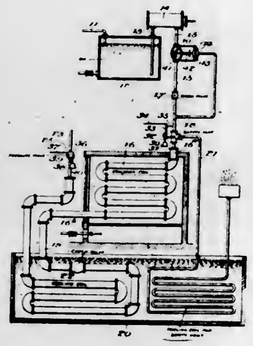
1. Apparatus for treating hydrocarbons comprising the following instrumentalities, a retort having charging and discharging ports, valves for said ports, means for heating the retort, and an automatic pressure operated relay valve connected on its controlled side to the retort and connected on its controlling side to said discharge valve, to operate the latter at any pressure for which the relay may be set.

1,335,772. APPARATUS FOR REFINING OIL. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed May 12, 1917. Serial No. 168,223. 3 Claims. (Cl. 196—3.)



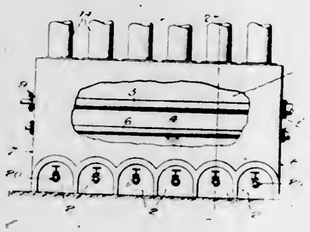
1. Apparatus of the class described, comprising the following instrumentalities: a tubular retort, means for heating the same, inlet and discharge pipes for the same at opposite ends thereof, said discharge pipe communicating with the interior of the retort at the level of the bottom thereof, valves controlling said devices respectively, means for feeding charges through the inlet pipe to the retort intermittently, and means for scouring out the bottom and sides of the retort in the intervals between discharging and charging.

1,335,773. APPARATUS FOR REFINING MINERAL OILS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Jan. 21, 1918. Serial No. 212,950. 1 Claim. (Cl. 196—1.)



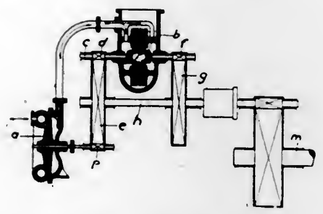
In a system of cracking hydrocarbon oil, a cracking coil of large diameter, feed and discharge pipes of smaller diameter, a pressure valve at the discharge end of said cracking coil, and a safety discharge valve at the intake end of the cracking coil, said valves both having cooling coils, that on the pressure valve being of the same diameter as the cracking coil, and that on the safety discharge being the same diameter as the intake pipe.

1,335,774. LIQUID-HEATING FURNACE. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Apr. 9, 1918. Serial No. 227,555. 2 Claims. (Cl. 122—23.)



1. A liquid heater comprising a main heating chamber, a plurality of horizontal layers of parallel tubes one above the other, each layer being spaced from one side of the chamber and extending across the chamber transversely of the tubes close to the opposite side, adjacent layers being spaced from opposite sides and all the layers extending completely across the main chamber longitudinally of the tubes, a plurality of combustion chambers and individual heating means therefor arranged below said main chamber and communicating therewith through openings below the lowermost layer of tubes opposite the spaced edge of said lowermost layer, a plurality of flues or stacks communicating with the heating chamber at points above the uppermost layer opposite the spaced end of said upper layer, and regulating means for said heating means for regulating the relative amount of heat generated in the several combustion chambers, whereby any tendency to variation in temperature along the length of the tubes may be offset and an even longitudinal distribution of heat effected.

1,335,775. STEAM OR GAS TURBINE PLANT. OSCAR ANTON WIBERG, Finspong, Sweden, assignor to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Filed Sept. 8, 1919. Serial No. 322,599. 2 Claims. (Cl. 60—70.)



1. A turbine plant for steam or gas, comprising in combination a high pressure member consisting of an impulse turbine of the axial type, a low pressure member, consisting of a radial turbine of the double rotating type, having two shafts rotating in opposite directions, a toothed gearing common to said two shafts, and a separate pinion connecting the high pressure turbine to said toothed gearing.

1,335,776. INFANT-SEAT. WILLIAM H. YOUNG, Denver, Colo. Filed Feb. 9, 1918. Serial No. 216,202. 1 Claim. (Cl. 155—26.)



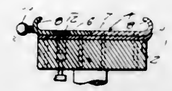
The combination with resilient suspension means and a seat having chains connecting with said means, of rings carried at intervals on the chains, hanger members engaged at the points of connection between the chains, and said means and adapted for mounting upon the back of a chair, and hooks on said members for engaging in any of the rings.

1,335,777. CORN AND CALLOUS REMOVER. JOSÉ SANTOS ZELAYA, New York, N. Y. Filed June 15, 1918. Serial No. 240,127. 6 Claims. (Cl. 30—23.)



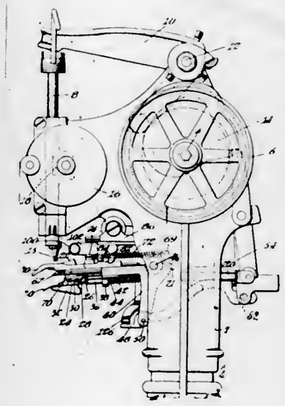
1. A corn or callous remover comprising a body portion having its surface roughened to serve as a file, a handle at one end of the body portion and an extension at the other end thereof, the extension being of substantially less thickness than the body portion and having one surface roughened to serve as a file and the other surface smooth.

1,335,778. SEPARABLE RIM. ORGERIO ABRADINI, Fairbanks, Pa. Filed May 25, 1918. Serial No. 236,578. 1 Claim. (Cl. 152—21.)



A separable rim including a felly band and a felly, a pair of rim sections, means securing one of the sections permanently to the felly band and the other section having bayonet slots, pins secured to the felly band and received by the slots, spring catches secured at one of their ends to the last named section and having their other ends disposed against the pins, operating pins slidable in the felly band and felly and engaging the spring catches, and spaced heads formed on the operating pins for limiting the movement of said operating pins through the felly.

1,335,779. LASTING-MACHINE. ORRELL ASHTON, deceased, Swampscott, Mass., by Hannah Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 15, 1916. Serial No. 78,517. 25 Claims. (Cl. 12—2.)
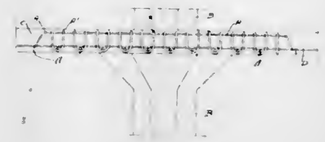


1. An organized machine for step by step lasting, having, in combination, a single gripper arranged to extend transversely across a shoe bottom to engage an upper on the side of the shoe more remote from the machine, means for giving the gripper an updraw movement to tension the upper in a direction substantially perpendicular to the last bottom, and means for moving the gripper to lay the upper over the last bottom.

10. In a machine for use in the manufacture of boots and shoes, a tacker which is restrained from forward and downward movements and has a vertical driver path, a gripper having an updraw movement toward the tacker and an overdraw movement across the driver path from front to rear, connected operating mechanism for said parts, and a shoe rest arranged to form a vertical and a lateral abutment for the shoe during the updraw and overdraw movements of the gripper.

1,335,780. CONCRETE BUILDING. FRANCIS M. BARTON, Chicago, Ill. Filed July 18, 1911. Serial No. 639,189. 8 Claims. (Cl. 72—15.)

4. A mat member for a column head reinforcement in a flat slab floor construction, comprising a strip bent into sinuous form to provide a series of substantially parallel rods having connecting loops at alternate ends, said



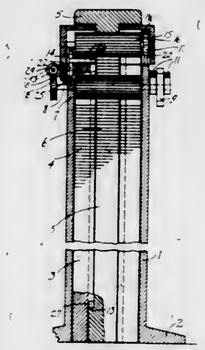
loops being bent downwardly to lie in the lower portion of the slab.

1,335,781. ARTIFICIAL LEG. CHARLES DESOUTTER, London, England. Filed Sept. 13, 1919. Serial No. 323,474. 4 Claims. (Cl. 3—3.)



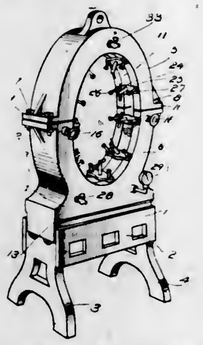
1. In combination an artificial leg having an upper leg section adapted to fit the stump of the thigh, a pelvic band or the like provided with a bearing, means for suspending the artificial leg from said band comprising a connection rod pivotally connected to said artificial leg at one end and mounted at its other end in said bearing for rotatable movement about a vertical axis.

1,335,782. HOISTING MECHANISM. JOHN DOLAN, Dayton, Ohio. Filed Nov. 11, 1918. Serial No. 261,968. 33 Claims. (Cl. 254—97.)



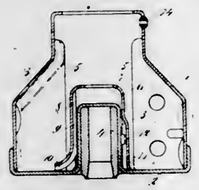
1. In a hoisting mechanism, the combination with a standard, a plurality of overlapping extensible elements carried by said standard and means to successively impart longitudinal movement to said elements relatively to said standard, of a locking device carried by a succeeding element and adapted to lock the next preceding element against return movement, means tending to move said locking device into an operative position with relation to said preceding element, and a part connected with said locking device and arranged to engage a fixed part of said mechanism when said succeeding element is in its normal position, and to hold said locking device in an inoperative position.

1,335,783. VULCANIZER. ARTHUR A. DORSEY, Lawrence, Kans. Filed May 12, 1919. Serial No. 296,479. 3 Claims. (Cl. 18—38.)



1. A pulverizer comprising a circular casing consisting of an upper semi-circular member and a lower semi-circular member, the ends of the members having communication through hollow dowels carried by one section and passing into the other, valves for cutting off communication between the sections, and means for connecting the two members.

1,335,784. INLET DEVICE FOR THE WHOLE-MILK IN CENTRIFUGAL APPARATUS. SVEN AUGUST ESKILSON, Stockholm, Sweden, assignor to Aktiebolaget Salenius' Werkstäder, Stockholm, Sweden, a Corporation of Sweden. Filed Jan. 17, 1920. Serial No. 352,154. 2 Claims. (Cl. 233—45.)



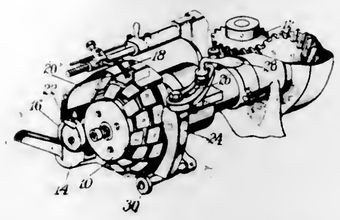
1. In a centrifugal separator, the combination of a centrifugal drum formed at its bottom with a central, hollow upright which is closed at its top; a sleeve fitted over said upright and having an open upper end constituting an inlet for the whole milk, said sleeve resting at its lower end upon the drum bottom and being formed at said end with an outwardly-extending grooved lip; and a longitudinal corrugation formed on said sleeve in line with said lip and extending from top to bottom thereof, said corrugation co-acting with said upright in providing a longitudinal channel between the sleeve and the upright which opens at its lower end into the grooved face of the lip to permit the whole milk supplied through said inlet to flow downward through said channel and said lip and escape through the latter into the drum.

1,335,785. MANUFACTURE OF EXPLOSIVES. GUIDO ALFONS HEDBERG, Alingsås, Sweden. Filed Sept. 9, 1919. Serial No. 322,715. 3 Claims. (Cl. 52—4.)

1. In explosives, in combination with the explosive materials proper, meal of pine-bark and meal of pine cones as an intimate mixture.

1,335,786. SHOE-FINISHING TOOL. GIDEON J. JULIAN, Beverly, Mass., assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me., a Corporation of Maine. Filed Nov. 14, 1916. Serial No. 131,328. 18 Claims. (Cl. 12—105.)

1. A heel-finishing tool comprising a movable carrier, a plurality of rows of work members arranged upon said carrier, each row comprising a plurality of separated work surfaces, the work surfaces of adjacent rows being staggered and extended transversely of a line drawn midway between the center lines of adjacent rows and



in the direction of movement of the tool so that the meeting line of adjacent rows is irregular, and means for normally maintaining the surface of the tool in a curve corresponding generally to that of the heel to be finished.

1,335,787. BOX. GEORGE E. KRAUSE, Canton, Ohio. Filed Dec. 12, 1919. Serial No. 344,335. 1 Claim. (Cl. 220—43.)



A rectangular sheet metal box, having vertical side walls provided with straight upper edges, upwardly protruding lugs upon opposite side edges of the box near one end thereof, and a detachable, tight fitting cover normally resting upon said lugs and upon the opposite end edge of the box and arranged to be loosened by applying pressure upon the box and lid at the end adjacent to the lugs.

1,335,788. EXPLOSIVE. JOHN R. MARDICK, New York, N. Y., assignor to Electro Metallurgical Company, Niagara Falls, N. Y., a Corporation of West Virginia. Filed Dec. 15, 1917. Serial No. 207,389. 8 Claims. (Cl. 52—6.)

1. A plastic explosive containing as essential components a normally solid fusible nitro-aromatic body having at least three nitro-groups, an oxidizer, a plasticizing ingredient, and a silicon-containing substance, said components proportioned to confer plasticity on the composition.

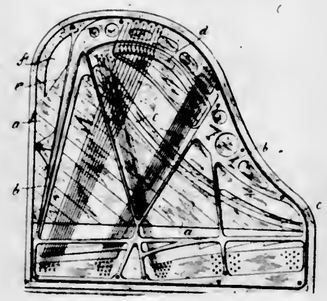
1,335,789. EXPLOSIVE. JOHN R. MARDICK, New York, and FREDERICK MARK BECKET, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, Niagara Falls, N. Y., a Corporation of West Virginia. Filed June 19, 1918. Serial No. 240,793. 8 Claims. (Cl. 52—6.)

1. A commercial explosive containing a nitro-aromatic body, an oxidizer, and a magnesium-silicon alloy.

1,335,790. EXPLOSIVE AND METHOD OF PREPARING THE SAME. JOHN R. MARDICK, New York, N. Y., assignor to Electro Metallurgical Company, Niagara Falls, N. Y., a Corporation of West Virginia. Filed Aug. 22, 1918. Serial No. 251,024. 5 Claims. (Cl. 52—6.)

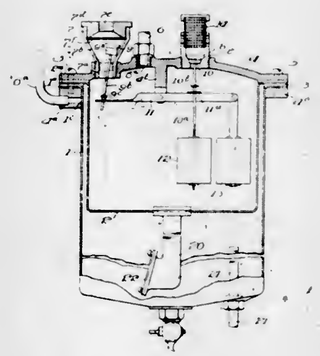
1. An explosive composition containing an oxidizing salt, a metallic reducing agent, a normally solid nitro-aromatic body having at least three nitro groups, said nitro-aromatic body being present in quantity not less than that of the metallic reducing agent, and a gelatinized plasticizing ingredient, the latter in about the minimum proportion required to render the composition cohesive or plastic.

1,335,791. PIANO. CHARLES MEHLIN, Fort Lee, N. J. Filed July 20, 1918. Serial No. 245,816. 1 Claim. (Cl. 84—30.)



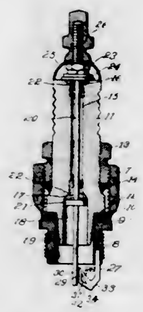
In a piano, the combination of a string frame, a bridge and a sounding board supported along its perimeter, the bridge bearing on the sounding board and the sounding board having its grain substantially parallel with the bridge and having one edge free on a line of substantial length substantially at right angles with the grain and across the line of the bridge.

1,335,792. VACUUM FUEL-FEED DEVICE. WILLIAM H. MUZZY, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed July 3, 1919. Serial No. 308,516. 14 Claims. (Cl. 158—36.)



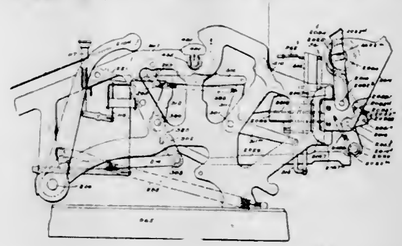
1. In a vacuum fuel feed device comprising a vacuum chamber into which liquid is lifted from a lower source by atmospheric pressure and from which it is delivered by gravity flow, in combination with a vacuum chamber, a suction connection for producing partial vacuum therein; a liquid inlet connection and an atmosphere inlet connection; a valve at the liquid inlet port and a valve at the atmosphere inlet port, both said valves seating inwardly, and operating connections between the two valves by which their respective inwardly seating movements are opposed to each other; the valves and connections being proportioned to give the liquid inlet valve dominance over the air inlet valve in respect to seating movement.

1,335,793. SPARK-PLUG. WILLIAM O. OLSON, Chicago, Ill., assignor to The Marmon Chicago Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 16, 1918. Serial No. 266,845. 11 Claims. (Cl. 123—169.)



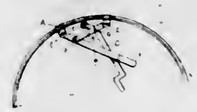
1. A spark plug having two electrodes, the terminal of one of said electrodes having an extended edge arranged alongside and parallel with the terminal of the other electrode and a transverse opening adjacent said edge.

1,335,794. PAPER-CARRIAGE. ARTHUR PENTECOST, New York, N. Y., and WILLIAM W. FISHER, Fortyfort, Pa., assignors to Wales Adding Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Sept. 28, 1918. Serial No. 256,013. 28 Claims. (Cl. 235—58.)



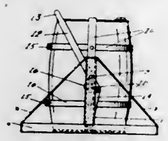
1. The combination with a line space mechanism, including a platen; a pivotally supported pawl to turn the platen step by step; and means to retract and advance the pawl; of a shiftable control member; and means to connect the control member and pawl, and shiftable by said member to one side or the other of the point of support of the pawl to render the latter effective or ineffective.

1,335,795. RIM-TOOL. PETER R. PETERSON, Salt Lake City, Utah. Filed June 30, 1919. Serial No. 307,800. 2 Claims. (Cl. 157—1.)



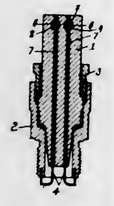
1. In a tire rim tool the combination of coacting clamps to detachably engage the rim adjacent the cut in said rim; a lever pivoted to one of said clamps; a link bar pivoted at one end to said lever and at the other end to the other of said clamps; another lever pivoted to said link bar and bifurcated at one end and offset near its other end; and a roller mounted for rotation in said bifurcated end of the last mentioned lever.

1,335,796. BARREL-HANDLING DEVICE. WILLIAM A. ROBINSON, Minneapolis, Minn. Filed Dec. 2, 1919. Serial No. 341,963. 5 Claims. (Cl. 248—58.)



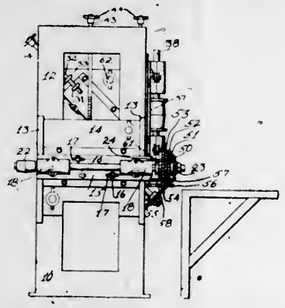
1. A device of the class described consisting of a main frame having fixed thereto inwardly disposed studs, a secondary frame tiltably and slidably mounted on said studs, a lever arm pivotally mounted on one of said studs, operative connection between said lever arm and said secondary frame whereby manipulation of the former will raise and lower the latter in the main frame.

1,336,797. SPARK-PLUG. OTTO C. ROHDE, Toledo, Ohio, assignor to Champion Spark Plug Company, Toledo, Ohio, a Corporation of Delaware. Filed May 26, 1919. Serial No. 299,690. 3 Claims. (Cl. 123—169.)



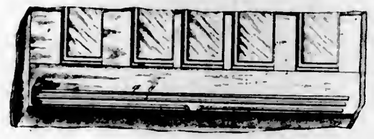
1. In a spark plug, an insulator having two longitudinal openings therein and having separate transverse sockets adjacent to its outer end and extending in opposite directions, one from each of said longitudinal openings, with their inner ends in transversely spaced lapping relation, an electrode wire in each longitudinal opening, and a terminal plug fixed in each transverse socket and having a transverse opening into which the respective electrode wire fits, said plugs having their terminal connecting ends exposed at opposite sides of the insulator.

1,335,798. SAWING-MACHINE. ALVA H. RUMPLE, Des Moines, Iowa. Filed Apr. 3, 1919. Serial No. 287,341. 1 Claim. (Cl. 144—203.)



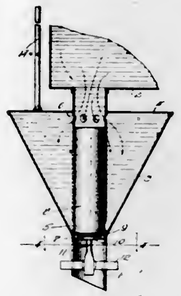
In a sawing machine for making tenoned joints, a frame, cutting devices thereon for cutting stock advanced in a horizontal plane, comprising a horizontal shaft having thereon a stop member, a spacer sleeve, a cut-off saw, cutting means adjacent to said saw, a second spacer sleeve and a bevel cutter, an inclined shaft having thereon a saw for cutting a bevel, a vertical shaft having thereon spaced removable saws substantially as described, whereby one member of a tenoned joint may be cut, the parts being so arranged that said first spacer sleeve may be removed, said first saw, cutting means and second sleeve moved longitudinally on said first shaft and one of said last saws placed between the second spacer sleeve and the bevel cutter, whereupon the parts will be arranged for cutting the second member of a joint.

1,335,799. PIPE-COIL. EDWARD A. RUSSELL, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed June 1, 1918. Serial No. 237,682. 4 Claims. (Cl. 257—155.)



3. In combination with a railway car, a heating coil arranged in the car comprising three pipes in parallel arrangement, and a header with which two of said pipes are slidably connected and which is rigidly connected with and supported on the other pipe so as to be freely movable when the latter expands and contracts.

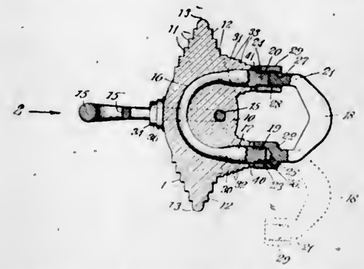
1,335,800. AUTOMATIC LIQUID-MEASURING APPLIANCE. LE ROY M. SMITH, Chicago, Ill. Filed Nov. 21, 1918. Serial No. 263,493. 3 Claims. (Cl. 221—114.)



1. In a liquid measuring appliance, a substantially vertical tube, an annular container secured to and housing a medial portion of the tube, the tube being equipped with apertures leading to the interior of this container and respectively disposed near the bottom of the container and in a relatively higher portion of the tube; an annular seat mounted in the tube below the lower of the said apertures, a plunger slidably carried by the tube and normally seated by gravity on the said seat and terminating at a point normally below the upper of the said apertures, the said plunger being adapted to close the lower of the said apertures when in its normal position, and to open the said apertures when raised out of its normal position; and means carried by the plunger and accessible from the exterior of the appliance for raising the plunger out of its normal position.

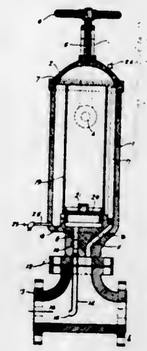
1,335,801. INSULATOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Nov. 14, 1916. Serial No. 131,218. 4 Claims. (Cl. 173—366.)

1. An insulator of substantially the shape of a double convex lens having a large portion of its surface consisting of annular portions, the adjacent annular portions being at right angles to each other and being respectively perpendicular to and parallel to the axis of said insulator,



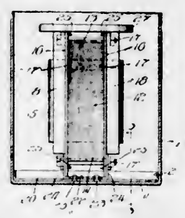
said annular portions constituting the surface from the meeting edges of the convex surfaces approximately half way to said axis.

1,335,802. FEEDER FOR BOILER COMPOUNDS. EDWIN FERGERSON STEWART, Hopewell, N. J. Filed Apr. 14, 1919. Serial No. 289,871. 5 Claims. (Cl. 210—19.)



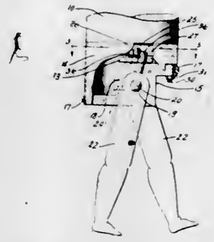
1. In a feeder for boiler compound, a container, a drain pipe and a vent for said container, an inlet pipe and an outlet for said container, means for attaching said container to a T, said inlet pipe projecting into said T and said outlet opening into said T when the container is attached to the medial portion thereof.

1,335,803. TRANSFORMER-MOUNTING. CHESTER H. THORDARSON, Chicago, Ill. Filed Jan. 6, 1919. Serial No. 269,802. 18 Claims. (Cl. 175—361.)



1. The combination with a transformer casing having a closed end and transformer elements therein, of a supporting member for the transformer elements of a diameter to engage the upright casing wall and resting on said closed end and fitting closely against said casing wall to hold it from shifting laterally relatively to the casing wall, said supporting member being freely movable into and out of the casing, and means to fix the transformer elements to said supporting member.

1,335,804. WALKING DOLL. HERMANN TRABERT, Brooklyn, N. Y. Filed Apr. 22, 1919. Serial No. 291,913. 2 Claims. (Cl. 46—40.)



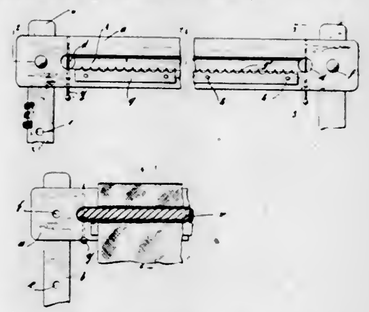
1. In a walking doll, the combination with a body, a casing extended therebelow, and a block secured in said casing, said block having a central slotted recess, of a spindle passing through said block, a pair of elements simulating limbs pivoted on the extending ends of said spindle, a rod secured centrally on said spindle operable in the mentioned recess, projections extending from said limb elements opposite to the main portions thereof, a plate pivoted on said rod, said plate having open slots at the ends thereof in which said projections are engageable, and spring forks secured to said block adapted to engage with said rod when in a vertical position, whereby said limbs are caused to extend downward from said body.

1,335,805. IMPLEMENT FOR THREADING EMBROIDERY-BEADS. RUDOLPH O. TRUEB, Murray Hill Park, N. J. Filed June 6, 1919. Serial No. 302,293. 9 Claims. (Cl. 223—52.)



1. An implement for threading beads, comprising a tube fitting into the opening of the container and having a slot sufficiently wide to permit the passage of the beads therethrough, a cover at the outer end of said tube, said cover being provided with a slot wide enough to admit a needle and narrow enough to prevent the passage of beads therethrough, the slots in said tube and said cover being in alinement with each other, and a member adjustably fitted over said tube to cover and uncover said first mentioned slot.

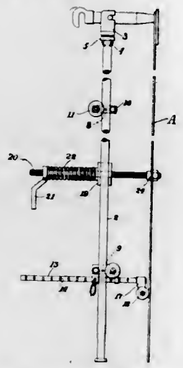
1,335,806. EMBROIDERY-FRAME. RUDOLPH O. TRUEB, Murray Hill Park, N. J. Filed Aug. 16, 1919. Serial No. 317,974. 3 Claims. (Cl. 45—24.)



1. In a frame for stretching fabrics, a bar provided with a longitudinal groove, a row of prongs arranged

along one edge of said groove and extending into the same, and a rope-like member of soft fibrous material fitting into said groove and engaged by said prongs, whereby a piece of fabric bent or folded on said member in the groove is securely held therein.

1,335,807. SUPPORT FOR PNEUMATIC TOOLS. WILLIAM WALKER, Langside, Glasgow, Scotland, assignor to John MacDonald & Son Limited, Maryhill, Glasgow, Scotland. Filed Apr. 11, 1919. Serial No. 289,342. 2 Claims. (Cl. 78—50.)



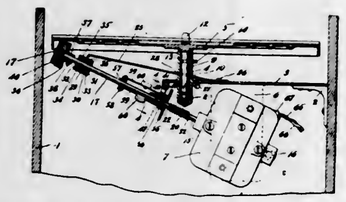
1. A rig-up for supporting pneumatic riveting tools, comprising a frame composed of parallel members, a holder for the tool carried by the frame, a central support on which the frame is slidably arranged said support having end and intermediate blocks, guide wheels for the parallel members of the frame carried by the end blocks, means for securing the support, a cushioning spring in conjunction with the intermediate block, and a fulcrum bar carried by one of the end blocks, substantially as set forth.

1,335,808. METHOD OF FORMING A FORGED FULCRUM. LOREN L. WHITNEY, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 26, 1918. Serial No. 230,988. 6 Claims. (Cl. 29—164.)



1. The method of forming a forged fulcrum consisting first in providing a single blank, then pressing an opening therein for the reception of a brake lever, and forming portions for coöperation with the tension and compression members of a brake beam.

1,335,809. PHONOGRAPH DRIVING MECHANISM. DEXTER W. ALLIS, Whitman, Mass., assignor to Arthur M. Brewster, Boston, Mass. Filed Feb. 1, 1918. Serial No. 214,821. 6 Claims. (Cl. 74—26.)



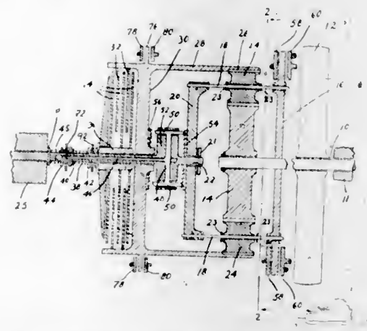
1. Apparatus of the kind described, comprising a talking machine record platform, a pivotal mounting for said platform, a motor rigidly mounted and a driving shaft having a flexible portion connecting said motor to said platform to rotate same.

1,335,810. FUSE-PLUG. ERNST G. K. ANDERSON, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 8, 1915. Serial No. 26,762. Renewed Apr. 24, 1918. Serial No. 230,610. 21 Claims. (Cl. 200—125.)



1. A multiple fuse plug comprising a threaded shell contact, a cap therefor at one end thereof, a center contact supported by said cap, a plurality of fuses, a fuse carrier for said fuses insertible within said shell contact at the end opposite said center contact, yielding means for detachably and rotatably holding said fuse carrier in said shell contact, and contact-making means whereby as said carrier is rotated the different fuses will be brought successively into the circuit.

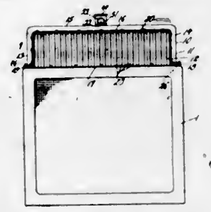
1,335,811. AUTOMOBILE TRANSMISSION-GEARING. OLE K. BAKKEN, Northwood, N. D. Filed Mar. 11, 1919. Serial No. 281,956. 4 Claims. (Cl. 74—34.)



1. An automobile transmission gearing comprising a driving shaft, a driven shaft, means for causing said driving shaft to rotate said driven shaft in a direction to drive the vehicle forwardly at slow speed, a brake associated with said means, a lever connected to said brake for applying the same when the vehicle is to be started, a clutch normally held clutched to said driven shaft for rotating the same to drive the vehicle forwardly at high speed, and connections between said lever and said clutch to unclutch the latter when the vehicle is started.

1,335,812. CONDENSING-RADIATOR. DOWLING BENJAMIN, Camden, N. J. Filed Apr. 28, 1917. Serial No. 165,050. 5 Claims. (Cl. 257—125.)

1. A device of the character described including a receptacle for containing a cooling-fluid, a vapor-condensing head mounted above the normal level of the water in the receptacle, said head including a hollow jacket providing a chamber, a base plate located between the jacket and the receptacle, and hollow plates connecting the jacket and the base plate, said hollow plates having their passages communicating respectively with said chamber and the interior of the receptacle whereby the splash of



the fluid within the receptacle will enter the passages of said plates and agitate the vapor therein and thereby accelerate its condensation, substantially as described.

1,335,813. SKATE-SHARPENER. GEORGE H. BERGHMAN, Chicago, Ill. Filed Oct. 17, 1919. Serial No. 331,275. 5 Claims. (Cl. 51—7.)



1. In a skate sharpener of the character described, the combination of an abrasive element, a pair of clamp-plates formed with guide flanges for a skate runner, a spring operative to force said clamp-plates into holding engagement with said abrasive element, and an adjusting screw operative to vary the spacing of said guide flanges.

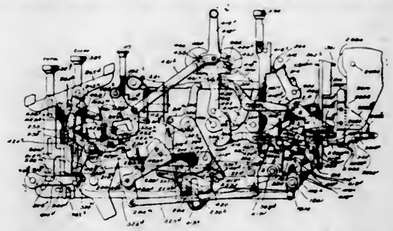
1,335,814. ENVELOP CONSTRUCTION. JOHN C. BLUE, Brooklyn, N. Y. Filed Apr. 7, 1919. Serial No. 288,416. 3 Claims. (Cl. 229—68.)



1. An improved envelop provided with openings at one side and one end thereof, flaps formed on the front portion of the envelop adjacent the side and end openings thereof, the end flap being adapted to be folded and tucked into the end openings, a tongue formed on the back of the envelop and folded to a position therein to overlie the end flap and receive said end flap in the fold of the tongue whereby an inclosure upon insertion into the envelop, is guided by the tongue into the fold of the end flap, the side flap being thereafter folded and adhesively secured to the back of the envelop, and a supplemental tongue projecting from one lateral edge of the tongue and adhesively secured to the front of the envelop interiorly thereof, for the purpose of maintaining the end opening closed during the insertion of bulky inclosures.

1,335,815. CALCULATING-MACHINE. AMBROSIUS BRIECHLE, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1919. Serial No. 283,721. 40 Claims. (Cl. 235—60.)

1. In a multiple counter calculating machine, the combination with counter-selecting mechanism adapted to free one or another of the sets of counters for operation; and a shiftable paper carriage; of drive mechanism for the counter-selecting mechanism, actuating mechanism functioning at each operation of the machine; a coupler to releasably connect the actuating and drive mechanisms; manually-operable means to control the coupler; adjustable transmitting members operable by the drive mechanism, to shift the counter-selecting mechanism; an



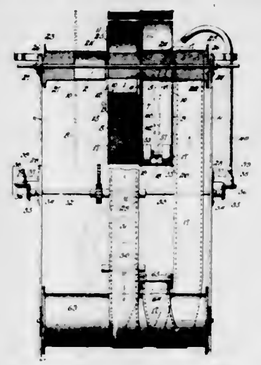
adjusting member for the transmitting members to shift the latter relatively to the drive mechanism; and means controlled by the carriage to position the adjusting member.

1,335,816. STOCKLESS ANCHOR. FRANK BRINER, Chester, Pa., assignor to Penn Seaboard Steel Corporation, Philadelphia, Pa., a Corporation of New York. Filed Oct. 22, 1919. Serial No. 332,541. 3 Claims. (Cl. 114—208.)



1. Anchor structure comprising a head having a socket formed therein, a shank movable with respect to said head, a head on said shank bearing upon said first named head within said socket, and means for retaining said shank in operative position comprising a pin in said first named head partially exposed in said socket and partially supported in a wall of said socket.

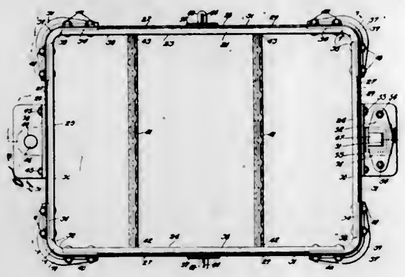
1,335,817. REWINDING MEANS FOR MOTION-PICTURES. WILLIAM F. BRINTON, Washington, Iowa; Ina Brinton, Geo. H. Brinton, and C. M. Keck executors of said William F. Brinton, deceased. Filed July 31, 1918. Serial No. 247,563. 16 Claims. (Cl. 88—18.7.)



1. A rewinding means for motion picture films, comprising interchangeable reels mounted on a common arbor and

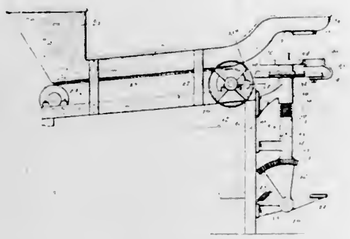
having means for securing them together for final rotation in the same direction, and means for causing the inside turns of the unwinding film to become the outside turns of the rewound film in the same order as the unwinding film.

1,335,818. MOLDER'S FLASK. ROYER S. BUCH, York, Pa. Filed Apr. 8, 1919. Serial No. 288,617. 7 Claims. (Cl. 22—111.)



1. A flask having corrugated sides; and sand supporting members having ends fitting said corrugations, whereby said members are slidably supported on said sides; substantially as described.

1,335,819. HAND-PACK-FILLING MACHINE. CHARLES S. BUCKLIN, Red Bank, N. J., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1918. Serial No. 242,691. 12 Claims. (Cl. 226—93.)



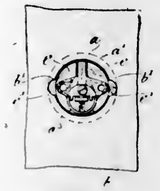
1. In a device of the class described, a fruit receptacle having a movable support on which the fruit rests, and a barrier against which said support urges the fruit, said barrier being located and constructed to prevent the fruit from being carried past it by said movable support.

1,335,820. RESILIENT TIRE. FREDERICK C. CAVE, Des Moines, Iowa. Filed Nov. 29, 1918. Serial No. 264,658. 1 Claim. (Cl. 152—8.)



In a device of the class described, a flexible casing, non-extensible rings secured in said casing adjacent to the portion designed to engage the periphery of a wheel, an annular resilient and somewhat flexible extensible ring adapted to be received in said flexible casing and rest adjacent to the inner surface of the tread portion of said casing, said ring being split along a beveled line, forming beveled surfaces having coacting corrugated portions whereby slippage of the ends of said ring will be prevented, said ring being capable of adjustment to various positions, means for locking the ends of said ring together for holding said ring in any of its adjusted positions, said locking means comprising set screws fixed in one end of said ring, and adapted to extend through the other end, whereby said set screws may be tightened to hold said ring in any of its positions.

1,335,821. LOCK. HENRY H. CRANE, Floral Park, N. Y., assignor to Huber Mfg. Co., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1919. Serial No. 315,373. 4 Claims. (Cl. 70—46.)



1. In combination with a rim cylinder lock, a supporting member therefor provided with a channel to receive the cylinder, and said channel wall being provided with a recess, a segment engaged with the exterior of the cylinder of the lock, and an ear carried with the segment and adapted to rest in said recess to hold the cylinder against rotation.

1,335,822. CARD-RACK. CHARLES M. CROOK, Chicago, Ill. Filed Jan. 7, 1918. Serial No. 210,718. 3 Claims. (Cl. 40—124.)



1. In a card rack, the combination with a frame having side members, a plurality of pocket plates mounted one above the other between said side members, a longitudinally extending rod passing through the bottom of each of said plates and mounted at the back of said frame, and laterally extending supports at the top of each of the plates secured to the side members at the front of the frame.

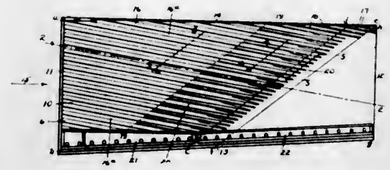
1,335,823. TEMPLE FOR SPECTACLES. GEORGE H. DAY, Rochester, N. Y. Filed Sept. 24, 1919. Serial No. 325,871. 6 Claims. (Cl. 88—52.)



1. A spectacle temple comprising a side bar and an ear engaging hook embodying a portion adapted to rest on top

of the ear, a portion adapted to engage behind the ear and a curved portion proceeding downwardly from the latter and of greater resiliency than either of the first mentioned portions so that it will have a tendency to bend at its point of connection with the portion to which it is directly attached.

1,335,824. ORE-CONCENTRATOR. EMIL DEISTER and WILLIAM F. DEISTER, Fort Wayne, Ind., assignors to Deister Machine Company, Fort Wayne, Ind., a Corporation. Filed Sept. 10, 1919. Serial No. 322,915. 6 Claims. (Cl. 83—88.)



1. In a differentially reciprocating concentrating table the combination of a deck having a plurality of coterminous sections on its surface which in operating position are inclined downwardly from the feed side to the tailings discharge side of the deck, one of the sections being inclined upwardly with respect to the longitudinal axis of the table, a series of main riffles on the deck having their forward ends terminating on the upwardly inclined section, and a series of displacement riffles in the channels between the main riffles and abutting the lower sides of the main riffles and having their forward ends terminating on the upwardly inclined section, the forward portions of the main riffles being cut away to form channels between said riffles and the corresponding portions of the displacement riffles.

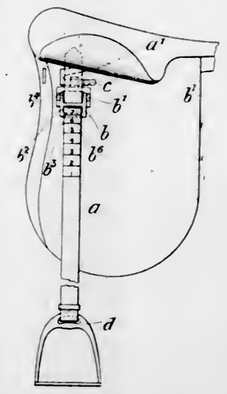
1,335,825. TOOTH-POLISHING DEVICE. WILLIAM L. ELLERBECK, Salt Lake City, Utah. Filed May 9, 1917. Serial No. 167,404. 1 Claim. (Cl. 32—10.)



In a device of the class described, the combination with a hand-piece having a rotatable shaft provided with a wrist-pin, of a casing having a projecting bearing boss forming a bearing for the free end of said shaft, removably connected in threaded engagement with said hand-piece, and slidably removable from said shaft, a tool carrier pivotally mounted in said casing, and having its inner end bifurcated and embracing said wrist-pin in co-operative relation therewith to effect its oscillation when said shaft is rotated, and a tool formed of flexible material detachably engaged with said tool carrier.

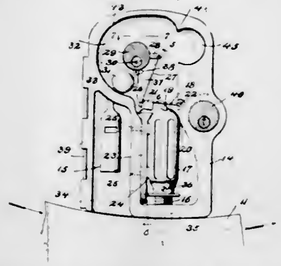
1,335,826. STIRRUP-LEATHER. WYNDHAM LIONEL FOLLIOTT FAITHFULL, Sussex, England. Filed Jan. 20, 1919. Serial No. 272,178. 2 Claims. (Cl. 54—46.)

1. A safety device for suspending single stirrup straps from riding saddles comprising a stationary member on the saddle, and a buckle member pivotally connected with the stationary member, said buckle member having a cross bar and the stirrup strap being laced through the member behind said bar and adapted to be wedged and



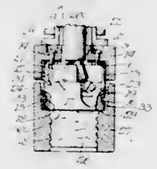
held between the same and the stationary member by downward pressure exerted on the strap, substantially as set forth.

1,335,827. AUTOMOBILE-THEFT-DETECTION DEVICE. WILLIAM J. FINN, Washington, D. C. Filed Nov. 25, 1919. Serial No. 340,475. 22 Claims. (Cl. 116—33.)



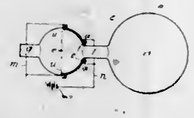
1. An automobile theft detecting device comprising an alarm, means for attachment to the valve of an automobile tire, means external to the tire and controlled by the turning of a wheel of the automobile for sounding the alarm.

1,335,828. LAMP-SOCKET STRUCTURE. HENRY A. FRAMBURG, Berwyn, Ill. Filed May 7, 1919. Serial No. 295,420. 7 Claims. (Cl. 173—358.)



2. A socket structure comprising a top member having an entrance for current conductors, arms extending from said top member, a socket member comprising a head and a threaded sleeve terminal, said arms having projections and said head having depressions for receiving said projections, and a lower closure member in the form of a tube having a threaded end for receiving said socket sleeve terminal, the inner end of said lower closure member receiving said socket head and clamping said arms against said head.

1,335,829. ARRANGEMENT FOR EVACUATING GASES FROM VESSELS. HANS GERDIEN, Berlin-Schmargendorf, Germany, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Oct. 6, 1915. Serial No. 54,473. 5 Claims. (Cl. 230—13.)



1. In an evacuating device in combination a container, an exhaust opening in said container, means for connecting said container to the space to be evacuated at least one surface in said container adapted, when hot, to project molecules of gas from said container through said exhaust opening.

1,335,830. PROCESS OF JOINING LEATHER AND JOINT MADE THEREBY. WALTON GIBB, Philadelphia, Pa., assignor to Alexander Brothers, Philadelphia, Pa., a Corporation of New Jersey. Filed June 6, 1918. Serial No. 238,525. 3 Claims. (Cl. 24—38.)



1. The process of forming a leather joint consisting of beveling the ends of two pieces of leather to a fine edge from the flesh side toward the grain side of one piece and from the grain side toward the flesh side of the other piece to form opposed surfaces, cutting said second mentioned piece from its flesh side toward its beveled surface adjacent to its extremity and securing said pieces together in superposed relation along said beveled surfaces.

1,335,831. GAS-MANTLE. LILLIAN GLASER, Detroit, Mich. Filed Oct. 11, 1917. Serial No. 196,064. 2 Claims. (Cl. 67—19.)

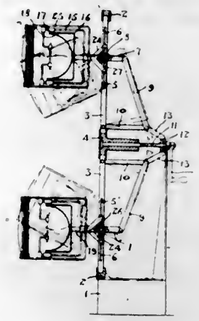


1. A mantle or incandescent body for incandescent gaslamps, in combination with an automatic gas igniter composed of equal parts of platinum black and silicious material fused on the body of the mantle.

2. A mantle or incandescent body for incandescent gaslamps, in combination with an automatic gas igniter consisting of pellets and bands composed of equal parts of platinum black and silicious material fused on the body of the mantle.

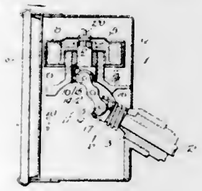
1,335,832. LIGHT-CONTROLLING DEVICE. WALTER JAMES HARVEY, Toronto, Ontario, Canada. Filed Dec. 31, 1917. Serial No. 209,786. 6 Claims. (Cl. 240—1.)

5. A light controlling device, comprising, a frame, a plurality of pivotal members supported on said frame and each supporting lights, reflector supporting members adjustably supported from said light supports, frames, adjustably supported in relation to said reflectors and said light supporting frames and carrying screens or lenses, means for swinging said reflector members to varying



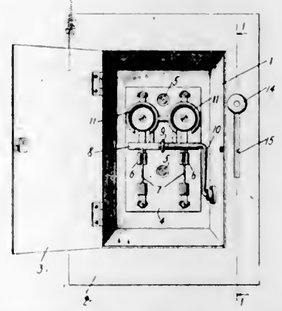
angles in unison, and means for effecting the adjustment of said reflectors and said light screen frames independently or in unison with each other.

1,335,833. SPEEDOMETER-MAGNET DRIVE. OSCAR B. HJORTH, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Feb. 18, 1918. Serial No. 217,777. 1 Claim. (Cl. 64—30.)



In a speedometer, including a member journaled for rotation, and a drive shaft arranged with its axis at an angle to that of said member, a torsion link composed of two parallel side bars and a spacer connecting them intermediate their ends; forked terminals on the adjacent parts of said member and shaft respectively, and connector blocks trunnioned in each of said forks and in the respective ends of said side bars, constituting universal joint connections for the torsion link to said member and drive shaft respectively.

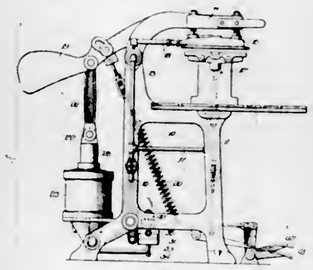
1,335,834. ELECTRICAL SWITCH. BRYSON DEXTER HORTON, Detroit, Mich. Filed Sept. 6, 1916. Serial No. 118,657. 7 Claims. (Cl. 200—153.)



5. In an electric switch, in combination, stationary contacts and movable contacts, an inclosing casing having a face adapted to be flush with a wall and having a cover flush

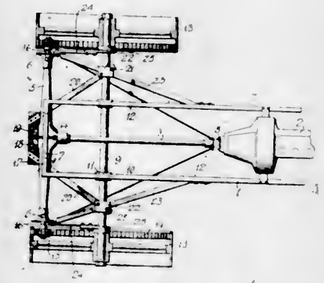
with the face, said face having a slot, an actuating means connected to said movable contacts, a handle slidingly mounted in said slot, and a link connecting said actuating means with the handle whereby the contacts may be operated.

1,335,835. CONTROL MECHANISM FOR PRESSING-MACHINES. HANS C. HOTING, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Nov. 4, 1918. Serial No. 261,119. 8 Claims. (Cl. 68—9.)



1. In combination, a pressing machine shoe, an operating mechanism therefor including a combined cylinder and piston operatively connected to said shoe, and a dash pot in which the combined cylinder and piston operates.

1,335,836. TRACTOR ATTACHMENT FOR AUTOMOBILES. GEORGE S. JACOBS, Detroit, Mich., assignor to Standard Detroit Tractor Co., Detroit, Mich., a Corporation of Michigan. Filed Nov. 1, 1916. Serial No. 128,840. 7 Claims. (Cl. 180—16.)



1. As a means for transforming an automobile into a tractor by removal of the automobile drive wheels, and wherein the automobile is normally provided with drive wheels and a main driving axle including a rear axle housing connected to the forward power plant by a torque tube pivotally connected at the forward end to the housing, said means comprising a main shaft adapted to be rigidly secured to the chassis between the power plant and the rear axle, means for rigidly supporting the rear axle against the sides of the chassis, draft bar connections extending rearwardly of the housing and forwardly to the chassis frame, traction wheels journaled on the transverse shaft end portions, and gearing connecting each traction wheel with a differential drive member of the rear axle.

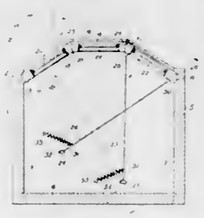
1,335,837. INDUCTION-COIL. EDWARD B. JACOBSON, Pittsfield, Mass., assignor to J and B Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Dec. 17, 1918. Serial No. 267,099. 4 Claims. (Cl. 175—357.)

1. An induction-coil comprising a housing; a core within the housing; a low-tension winding arranged about the core within the housing; a separate high-tension winding inclosing the core and the low-tension winding and adapted to be removed without disturbing the position of the



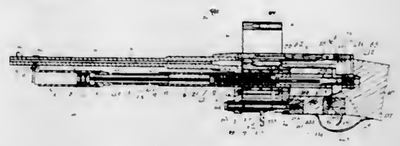
low-tension winding; and a stationary plate or magnetic metal arranged in the magnetic field at one end of the core within the housing and adjacent the high-tension winding.

1,335,838. DOOR. JOHN JOHNSON, New York, N. Y. Filed Mar. 16, 1918. Serial No. 222,791. 3 Claims. (Cl. 20—16.)



1. The combination with a booth having a door opening, of a three-section door having one of its sections hinged to the door jamb, the free section folding upon the intermediate one and the latter upon the section which is hinged to the door jamb, rods pivotally connected to the door and to said booth for controlling the door sections and causing one section to fold upon the intermediate section and the intermediate section to fold upon the jamb section when the door is opened, and springs for automatically opening the door.

1,335,839. MACHINE-GUN. JAMES S. JOHNSTON, Utica, N. Y. Filed Nov. 3, 1915. Serial No. 59,346. 11 Claims. (Cl. 89—2.)



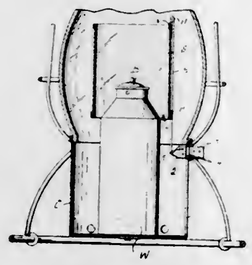
1. In a machine gun, a revoluble cartridge carrier for bringing a cartridge into loading position, a ratchet removably attached to said carrier, a spring pressed tooth having a transverse movement and adapted to engage said ratchet, whereby to turn said carrier, means for compelling the expanding gases of explosion to control the movements of said tooth and means for locking said cartridge carrier in given position, whereby to aid in loading the cartridges.

1,335,840. WATER-CARRYING ATTACHMENT FOR RAZORS. JACOB F. KAYLOR, Pekin, Ill. Filed Apr. 14, 1917. Serial No. 161,975. 5 Claims. (Cl. 30—12.)



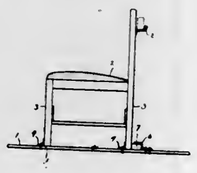
5. In a razor, the combination with a structure to carry the blade thereof, of a receptacle for containing water, there being a passage communicating with the receptacle leading to one of the surfaces of said structure, the receptacle being collapsible.

1,335,841. LANTERN. JOSEPH N. KLEMA, Austin, Minn. Filed July 19, 1919. Serial No. 312,015. 2 Claims. (Cl. 240—23.)



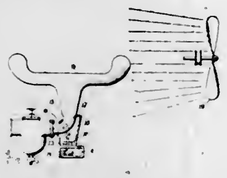
2. In a lantern, the combination with a casing provided with a slot in the side wall thereof, a holder for a color screen comprising an elongated and vertically disposed screen holder member, an outstanding arm carried by the lower end portion of the member and extending through the slot of the casing, oppositely directed arms carried by the lower portion of the screen supporting member, the outer portions of each of said arms being provided with upwardly facing hook members, a pivoted clip carried by the upper portion of the member, and a spring carried by the upper portion of the member between the member and the clip.

1,335,842. MEANS FOR DETACHABLY SECURING CHAIRS TO FLOORS. JOSEPH A. LAMBERT, Houston, Tex. Filed Aug. 12, 1919. Serial No. 316,930. 2 Claims. (Cl. 45—137.)



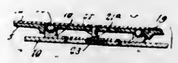
2. A device for securing a chair to a floor, including retaining means fixed to the floor in front of the respective chair legs, catches fixed to the legs and projecting into said means and thereby securing the chair to the floor, a retaining flange secured to the floor behind the chair, and a locking bar located between said flange and the rear legs of the chair.

1,335,843. HEATER FOR HYDROCARBON-FUEL INTAKES. CHARLES A. LEWIS, Dayton, Ohio. Filed Nov. 20, 1917. Serial No. 202,916. 3 Claims. (Cl. 123—122.)



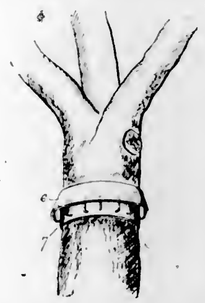
1. In combination, a hydrocarbon motor, a fan operated thereby, an intake manifold attached to the motor, and a lamp attached to the manifold, said lamp having vents arranged in such positions that when the motor starts, the currents of air from the fan will extinguish the flame of the lamp without blowing into the vents.

1,335,844. ROTARY TABLE FOR OVENS. LENA R. LIGHTLE, Chewelah, Wash. Filed June 2, 1917. Serial No. 172,501. 1 Claim. (Cl. 126—338.)



In a rotary table for ovens, a supporting base comprising a center disk and a plurality of arms radiating from the disk, feet releasably connected with the end portions of the arms for holding the base in an elevated position, a bearing plate positioned upon the disk of the base, a frame structure having a central disk and means radiating from the central disk, a table top carried by the frame structure, the central disk of the frame structure being provided with a bearing race positioned in operative relation to the bearing plate and having a depending wall positioned about the bearing plate, a pivot pin extending through registering openings formed in the table top and central disk of the frame structure and having a squared end portion extending through a squarred opening formed in the bearing plate and terminating in a threaded lower end portion, and a fastener screwed upon the threaded lower end portion of the pivot pin.

1,335,845. INSECT-TRAP. LEVETT A. LONG, Dayton, Ohio, assignor to Frank A. Tranchant, Dayton, Ohio. Filed Nov. 12, 1918. Serial No. 262,205. 9 Claims. (Cl. 47—35.)



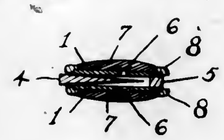
1. An insect trap of the type embodying a tree encircling girdle adapted to interfere with the progress of the insects along the trunk of the tree, comprising a strip of material folded upon itself to form an inturned margin, said margin being capable of yielding into conformity with irregularities of the surface of the tree trunk, said inturned yielding margin being overlapped and inclosed by the main portion of the strip by which said margin is pressed into engagement with the tree trunk.

1,335,846. ELECTROLYTIC PROCESS AND PRODUCT. MATTHEW M. MERRITT, South Middleton, Mass., assignor to Copper Products Company, Boston, Mass., a Corporation of Maine. Filed Nov. 2, 1917, Serial No. 199,808. Renewed Dec. 4, 1919. Serial No. 342,477. 2 Claims. (Cl. 204—8.)



2. The method of coating an aeroplane propeller which comprises coating the propeller with an electrically conductive paint, and electrolytically depositing metal thereon while rotating the propeller under partial submergence in an electrolyte, the direction of rotation being periodically reversed.

1,335,847. HANDLE FOR KNIVES, &c. PAUL MERTENS, Newark, and HENRY BACKERT, Irvington, N. J. Filed Jan. 22, 1919. Serial No. 272,434. 5 Claims. (Cl. 30—10.)



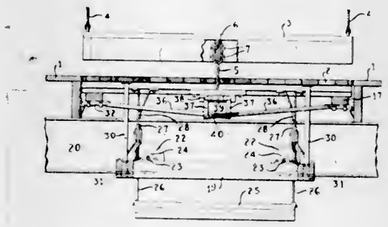
2. In a handle for knives and so forth, the combination of a side having a stud projecting therefrom with hollow split walls, a side piece or plate upon said side having the split end of the stud embedded therein, with its prongs clenched, whereby said side piece or plate is secured to the side and the fastening means concealed by said side piece or plate, and a frame entirely around the side and having an underlying edge or wall portion receiving the edge of the side piece and retained in position thereby.

1,335,848. SPADE. CHARLES E. MILLER, Pittsburgh, Pa. Filed Jan. 25, 1918. Serial No. 213,807. 8 Claims. (Cl. 294—60.)



2. The combination with a member having a tenon slot provided with serrations in its side walls, of a member having an integral tenon adapted to move freely between opposed serrations in said slot and to have its sides extruded to engage said serrations.

1,335,849. REMOVABLE FLOORING FOR ELEVATOR-SHAFTS. WILLIAM J. MORRIN, New Britain, Conn. Filed June 14, 1919. Serial No. 304,182. 19 Claims. (Cl. 187—62.)



5. In combination with the flooring of a building, a movable floor section; mechanism for locking the floor section flush with the flooring; tripping means for tripping the locking mechanism whereby the floor section may be depressed; means for shifting the floor section laterally; and means for locking the floor section depressed preparatory to shifting the same laterally.

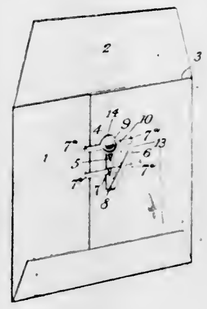
1,335,850. PAPER-FASTENING CLASP. GEORGE C. MOXON, New York, N. Y. Filed Sept. 25, 1917. Serial No. 193,059. 10 Claims. (Cl. 229—78.)

1. A clasp for fastening the flap to the body portion of an envelop comprising a one-piece metal member having a base portion, means for fastening the base portion to the envelop, said base portion provided with a bill portion positioned above and extending parallel to the base portion, the free end of said bill portion being defined by a bendable finger projecting toward the base portion, said base portion provided with means for bending the finger when the latter is purposely pressed into engagement with said bending means, and means associated



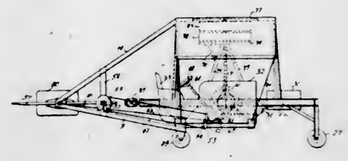
with said bendable finger for preventing an accidental engagement of the bendable finger with said bending means.

1,335,851. ENVELOP-CLASP. GEORGE C. MOXON, New York, N. Y. Filed Dec. 22, 1914. Serial No. 878,485. Renewed Apr. 16, 1919. Serial No. 290,642. 9 Claims. (Cl. 229—78.)



1. A one-piece clasp comprising a base portion provided with a flat head provided with an opening and a strip portion extending from said head and bent back upon itself to form a bill, the free end of said bill being provided with an inturned finger adapted to engage in said opening to fasten the bill in position relative to the base and adapted to perforate a penetrable member disposed between the base portion and bill and means for fastening said base portion in position.

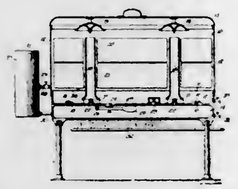
1,335,852. AIRPLANE. BENJAMIN H. MULL, Cleveland, Ohio. Filed Apr. 5, 1918. Serial No. 226,799. 5 Claims. (Cl. 244—18.)



1. The combination in an airplane, of a main frame and motor carried thereby, a supporting plane substantially parallel with relation to the direction of travel and having an opening, a fan driven by the motor and rotatable on a substantially vertical axis, the blades of

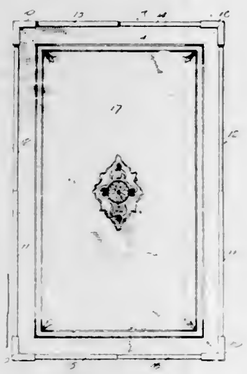
the fan being also substantially vertical, and a plate below the fan for preventing air approaching the fan from below.

1,335,853. DISH-WASHING MACHINE. GEORGE H. MYRICK, Chicago, Ill. Filed June 18, 1917. Serial No. 175,286. 6 Claims. (Cl. 141—9.)



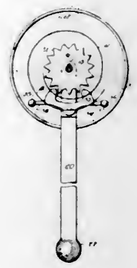
6. In a dish washing machine, the combination of a first compartment having imperforate bottom and side walls and a top wall inclosing said compartment, a nozzle projecting upward from said top wall with its lower end in communication with the upper portion of said compartment, a vertical straight tube open at both ends, an open support for the lower end of said tube for holding said tube above said top wall in line with said nozzle, side walls extending upward from said top wall to form a second compartment, said top wall forming the bottom wall of said second compartment and preventing communication between said compartments excepting through said nozzle, means for heating said first compartment, said top wall having a separable joint around its edge portion with said side walls, packing material in said joint, devices for holding said top wall in place against said packing material, a cover for said second compartment, and a deflector carried by said cover above the upper end of said tube.

1,335,854. CURTAIN-FRAME. JOHN O'CALLAHAN, Chicago, Ill. Filed Aug. 16, 1919. Serial No. 317,983. 1 Claim. (Cl. 156—14.)



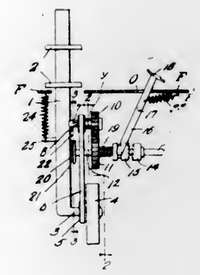
A curtain frame composed of tubular side, top and bottom members, and rigid tubular corner members holding the same assembled, each of said side, top and bottom members being composed of telescopically connected sections, said frame members being slitted longitudinally on the inside of the frame, and the side, top and bottom members being telescopically connected to the corner members; in combination with a curtain having rigid rods attached to its edges, said edge portions and the rods being adapted to seat in the frame members, with the curtain issuing from the slits thereof.

1,335,855. TOY CHIME. ROYAL G. REID, Brooklyn, N. Y. Filed Oct. 13, 1919. Serial No. 330,254. 6 Claims. (Cl. 46—46.)



1. In a sound producing device of the class described, the combination of a plurality of bells, an escapement, an arm arranged to revolve about the axis of said bells and means including said escapement for alternately ringing said bells by the revolution of said arm.

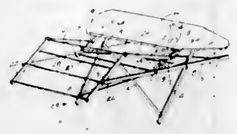
1,335,856. TURNING MECHANISM FOR MOTOR-VEHICLES. JEAN RIVIERE, New York, N. Y. Filed Feb. 14, 1918. Serial No. 217,122. 3 Claims. (Cl. 180—1.)



1. The combination with a motor vehicle having a driving shaft arranged longitudinally thereof, a clutch member fixed to said driving shaft, a shaft section extending in advance of the driving shaft and in longitudinal alinement therewith, a coöperating clutch member slidably mounted on said shaft section, means for normally holding said sliding clutch member out of engagement with the driving shaft carried member, a vertically movable post carried by the front of said vehicle, a wheel mounted to rotate in a plane transverse to the vehicle, a connection between said wheel and said shaft section whereby the rotation of the latter may be imparted to the former, cooperating means carried by said wheel and sid post whereby the rotation of said wheel in one direction will operate to lower the post, and means under the control of the driver for operating the means to cause said post to be lowered and the wheel carried thereby driven to effect the turning of the vehicle.

1,335,857. COMBINATION RACK AND IRONING-BOARD. DANIEL W. ROBBINS, Metcalf, Ill. Filed June 9, 1919. Serial No. 302,927. 4 Claims. (Cl. 68—10.)

1. In a device as set forth, the combination with a dominant frame and an auxiliary frame pivotally united, said dominant frame having transverse rungs, of a clothes rack consisting of a pair of sections connected to the dominant frame, board supports pivotally mounted upon the auxiliary frame and connected to one of the sections of the rack, adjustable connections between the supports and one of the rungs of the dominant frame,



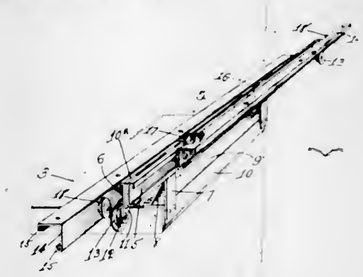
and a board pivoted to one of the supports, and a latch on the other support having detachable connections with the board.

1,335,858. VEHICLE-JACK. JAMES M. ROBERTS, near St. Joseph, Mo. Filed July 28, 1919. Serial No. 313,959. 5 Claims. (Cl. 254—91.)



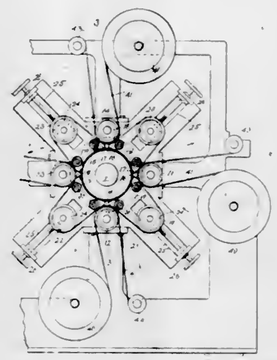
1. In a vehicle jack: the combination with a lower frame composed of a pair of U shaped rails and tie bars connecting them and with an upper frame similarly formed of inverted U shaped rails and tie bars; of two braces crossed upon each other and rigidly secured together at their said crossing, the lower ends of said braces being pivotally mounted in the rails of said lower frame near one end thereof, the upper ends of said braces being similarly mounted in the rails of said upper frame, forming braces which act as toggle members and as bracing means whereby said frames are braced against lateral movement in their relation to each other; a toggle member for each one of said braces, the upper ends of said toggle members being pivotally connected with the rails of said upper frame; another set of similarly constructed braces and toggle members for the other end portions of said frames; and toggle member moving means whereby the lower ends of all said toggle members are moved in the rails of said lower frame thereby raising said upper frame.

1,335,859. EXTENSION-TABLE. JOHN ROGGINGER, Chicago, Ill. Filed Oct. 27, 1919. Serial No. 333,845. 2 Claims. (Cl. 45—115.)



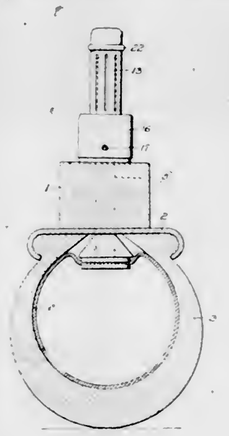
1. An extension table comprising a base, a pair of parallel rails mounted on opposite sides of the base each comprising two oppositely disposed channeled members having contracted mouth portions, a pair of separable table top members, a pair of rails secured to each thereof and projecting beneath the other, a plurality of antifriction rollers carried by each of said rails and engaging in the respective channels of the rails of said base, and antifriction rollers mounted at the ends of the latter in supporting relation to the rails secured to the table top members.

1,335,860. PHOTOGRAPH-PRINTING APPARATUS. HERMAN SHAPIRO, Cleveland, Ohio, assignor of one-half to A. E. Bernsteen and Frank S. Day. Filed Apr. 17, 1918. Serial No. 229,184. 7 Claims. (Cl. 95—75.)



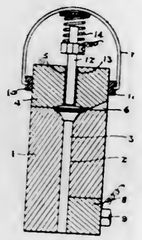
5. In a photographic printing apparatus, the combination of a light containing casing having a plurality of slots (of variable width), a plurality of parallel rolls arranged adjacent and close to the slots in said casing, a plurality of intermediately placed parallel rolls, an endless photographic film belt engaging said rolls and passing between the first named set of rolls and the casing and passing over the intermediate rolls, and means for causing the continuous travel of said film belt around the guiding rolls mentioned.

1,335,861. DUST-CAP FOR PROTECTING AUTOMOBILE-TIRE VALVES. JAMES SHAW, St. Louis, Mo. Filed Apr. 1, 1918. Serial No. 225,923. 2 Claims. (Cl. 152—12.)



1. The combination with a tire-valve stem, of a lock-nut adapted to be carried by said valve-stem and having a plurality of substantially J shaped sockets formed in the peripheral face thereof, a dust-cap, a plurality of inwardly extending fastener-heads carried near the lower edge thereof adapted to engage in said sockets, resilient means carried within the dust-cap adapted to yieldingly hold the dust-cap in its locked position to prevent relative rotation thereof and a packing positioned in the upper end of said dust-cap adapted to partially receive the upper end of the valve-stem to add stability to the dust-cap when positioned thereover.

1,335,862. METHOD AND APPARATUS FOR MAKING VALVES FOR INTERNAL-COMBUSTION ENGINES. CHARLES REUBEN SHORT and ARTHUR LAWTON CASH, Detroit, Mich. Filed Sept. 12, 1919. Serial No. 323,386. 4 Claims. (Cl. 22—204.)



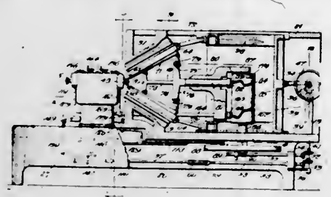
1. A method of making valves, consisting in electrically heating a valve stem within a mold, then molding the valve head metal around the stem to fuse therewith.

1,335,863. SAFETY-RAZOR-BLADE PROTECTOR. WILLIAM A. SPRINKELL, Springfield, Ill. Filed Apr. 29, 1919. Serial No. 293,472. 1 Claim. (Cl. 206—16.)



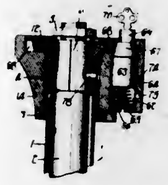
The combination with a hollow body having one open end, of a cap for closing said end, said cap having a hollow portion which projects beyond the open end of the body and is provided with a reduced portion which telescopes said body, the said cap having an extended bottom portion adapted to be inserted its full length into said body, and a plurality of pegs disposed perpendicularly on said bottom, the height of said pegs being substantially the same as the depth of the hollow end of the cap, and one of said pegs disposed within the hollow end of the cap for preventing accidental release of articles mounted on said pegs.

1,335,864. MULTIPLE SHAPER. GEORGE EMETT STEVENSON, Indianapolis, Ind., assignor, by direct and mesne assignments, to Stevenson Gear and Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 3, 1917. Serial No. 178,335. 29 Claims. (Cl. 90—9.)
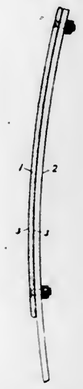


1. In a gear cutting machine, the combination of a blank supporting mechanism, a plurality of cutters for simultaneously acting upon the blank to form a plurality of grooves between a plurality of gear teeth, and mechanism for simultaneously feeding the several cutters and shifting the same with respect to the blank during the cutting operation.

1,335,865. LOCKING STEERING-WHEEL. EDWARD H. VINCENT, Detroit, Mich. Original application filed Nov. 25, 1918, Serial No. 263,979. Divided and this application filed May 31, 1919. Serial No. 300,972. 8 Claims. (Cl. 70—129.)



2. In combination, a steering shaft, a bushing secured thereon and having a conical socket, a wheel head mounted to rotate on the bushing, a lock barrel carried by the wheel head and having a tapered end adapted to be received in said socket, and a spring housed in the head and tending to force the lock barrel toward the socket.

1,335,866. FLEXIBLE FILE. GEORGE F. VORHAUER, New Brighton, Pa., assignor to Walter D. Craft, Newark, N. J. Filed Sept. 25, 1919. Serial No. 326,212. 1 Claim. (Cl. 29—78.)



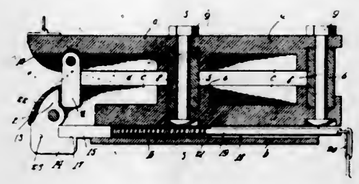
A file consisting of a unitary, straight, flexible blade having undercut straight diagonally disposed teeth milled on both faces thereof, whereby the blade is laterally straight though thin enough to be flexible.

1,335,867. DRUM TIGHTENING-EAR. CHARLES S. WALTON, Philadelphia, Pa. Filed July 5, 1918. Serial No. 243,271. 1 Claim. (Cl. 84—10.)



A drum tightening ear comprising a piece of flexible nonmetallic material of tapering width; and readily detachable securing means having co-acting connecting parts on opposite sides of said piece of material and spaced inwardly from the opposite edges of said piece whereby said edges can be secured in overlapped positions by said parts of the securing means to form a tapered housing for the drum rope; substantially as described.

1,335,868. CAR-COUPLING. JOHN WEARY, Mount Carmel, Pa., assignor of one-half to W. W. Littlehales, Mount Carmel, Pa. Filed Apr. 25, 1917. Serial No. 164,475. 2 Claims. (Cl. 213—56.)



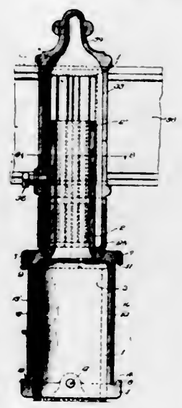
2. A coupler, which comprises a head formed of spaced members, each having one of its ends slotted, a coupling pin pivotally mounted on and depending from one of the members, the pin being freely movable in the slots, the slot in the other member forming a fork, a dog pivotally mounted in said fork and arranged to move, said dog having a counter-weighted section extending at an angle therefrom and serving as a bolt engaging member, said dog engaging the pin for limiting its movement in one direction, a bolt for engaging the bolt engaging member of the dog, and means for manually operating the bolt.

1,335,869. GAS-BURNER AND BODY-COVERING THEREFOR. JOHN H. ACKROYD, Milford, Conn. Filed May 1, 1919. Serial No. 293,938. 4 Claims. (Cl. 158—99.)



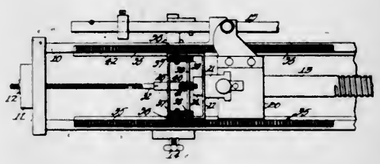
1. In a gas burner; a body; a plurality of burner elements spaced apart and projecting above said body so as to define air passages therebetween; and a covering plate for said body having perforations therein and arranged in relation to said body so that said burner elements project through said perforations.

1,335,870. SIGN AND HOLDER THEREFOR. HERMAN P. ANDRESEN, Chicago, Ill. Filed Mar. 20, 1919. Serial No. 283,725. 2 Claims. (Cl. 40—145.)



2. A direct locking two part sign holder embodying therein lower and upper co-acting members one thereof having a beam-like extension telescopically entering the other, said beam-like extension and holder member with which it coacts having vertically disposed inter-locking ribs and grooves whereby mere association of the sign holder parts serves to lock them against undesired movement, said lower member being formed hollow for placement upon the end of a post.

1,335,871. SPIRAL BROACHING-MACHINE. HARRY E. BLANCHARD, Hudson, Mass., assignor to Lapointe Machine Tool Company, a Corporation of Maine. Filed Nov. 21, 1917. Serial No. 203,080. 3 Claims. (Cl. 90—33.)



1. In a broaching machine, the combination with a reciprocatory slide and means thereon for rotatably carrying a broach, of a stationary rack extending in the direction of reciprocation of said slide, and a pinion movable with the slide and coacting with said rack to be operated thereby and connected with said broach holding means for turning the broach as the slide reciprocates.

1,335,872. MUFFLER. ROBERT BROWN, Toledo, Ohio. Filed Mar. 13, 1919. Serial No. 282,253. 2 Claims. (Cl. 137—160.)

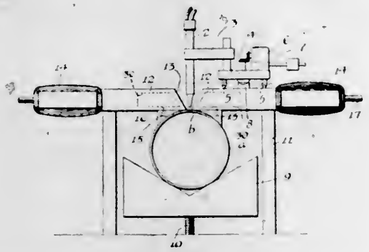


1. In a muffler, the combination with an elongated tubular casing and removable end caps therefor, of a tubular shell extending longitudinally through the casing and permanently connected to one of the end caps so as to be removable therewith, a series of longitudinal flanges projecting radially from the tubular shell and subdividing the space between the outer casing and inner shell into a series of longitudinal expansion chambers, one of the flanges being imperforate and the other flanges being perforate, the inner shell being formed at one side with openings establishing communication between the interior of the shell and the expansion chamber on one side of the imperforate flange, the other end cap being formed with an outlet opening communicating with the expansion chamber on the other side of the imperforate flange, and detachable fastening means between the inner shell and the opposite end cap.

1,335,873. WELDING APPARATUS. WILLIAM J. BUCKLEY, East Orange, N. J., assignor to Davis-Bournonville Company, Jersey City, N. J., a Corporation of New York. Filed Jan. 19, 1918. Serial No. 212,557. Renewed Feb. 18, 1920. Serial No. 359,540. 4 Claims. (Cl. 113—59.)

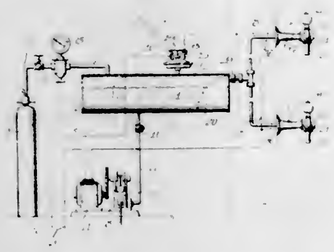
1. In apparatus for welding sheet metal, the combination of a mechanically supported welding torch, electro-

magnetic means for holding the sheet metal work with its edges in fixed relation, and driving mechanism for pro-



ducing relative movement between the torch and electromagnetic means in the direction of the seam.

1,335,874. CARBONATED-WATER-SUPPLY APPARATUS. LOUIS CAUL, Detroit, Mich. Filed Feb. 8, 1919. Serial No. 275,917. 2 Claims. (Cl. 225—28.)



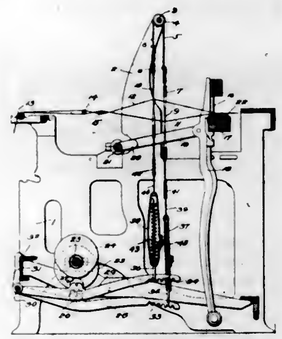
1. In a carbonated water supply apparatus, the combination of a reservoir adapted to receive carbon dioxid gas, a pump adapted to supply water to said reservoir to be charged by the gas in said reservoir, a faucet communicating with said reservoir and having a pivoted handle, and a push button carried by the handle of said faucet and adapted to control the operation of said pump.

1,335,875. ELECTRICAL-ARC WELDING. JACK CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,359. 9 Claims. (Cl. 219—8.)

1. A method of repairing a leaky cast-iron tank having a crack or cavity therein comprising partially filling the crack or cavity with metal deposited from a steel electrode, and filling the remainder of the crack or cavity with metal deposited from an electrode of Monel metal.

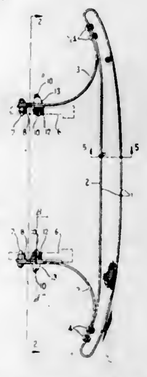
1,335,876. SHED-FORMING MECHANISM FOR LOOMS. LAWRENCE W. COUPE, New Bedford, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 8, 1919. Serial No. 275,844. 7 Claims. (Cl. 139—78.)

2. Shed forming mechanism for looms, comprising relatively movable harnesses, actuating means therefor, positive means for transmitting movement from said actuating means to said harnesses, having means of adjustment to introduce lost motion between said actuating means and said harnesses during a portion of the cycle of movement of said actuating means, whereby the amplitude of reciprocation of said harnesses may be varied and shed openings of different widths produced, and resilient means intermediate of said actuating means and said harnesses acting to prevent sudden jerking movements when the



actuating means acts effectively upon said positive transmitting means.

1,335,877. AUTOMOBILE-BUFFER. WILLIAM G. COX, Albany, N. Y., assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation. Filed Apr. 24, 1919. Serial No. 292,273. 4 Claims. (Cl. 293—55.)



2. In an automobile buffer, an impact receiving member formed from a flat spring material into an elongated endless loop having rounded ends slightly curved in the plane of the loop sides so that a plan view of the loop discloses a convex and a concave side, said endless loop adapted to be mounted so that both sides thereof lie in a substantially horizontal plane across the end and in front of an automobile and parallel to the axles thereof; curved resilient supporting members adjustably attached to the concave side of the impact receiving member adjacent the rounded ends thereof; an angle block adapted to engage with the outside of one flange and the web of a channeled side bar of an automobile frame; a hook bolt, the hook end thereof adapted to reach around one of the flanges of said channel and permit the end of the hook to engage one of the inner angles of said channel, the shank of said hook bolt being bent and adapted to pass through said angle block and an attaching hole in one of the supporting members at an angle of approximately forty-five degrees from the web of the channel; a nut coacting with said hook bolt to clamp a supporting member and an angle block securely to said automobile frame side bar; a fitting having a plurality of bearing surfaces and an eccentric bolt hole parallel to said surfaces; a hook bolt, the hook thereof adapted to engage the edge of one of the flanges of said channeled side bar, the shank to pass through the bolt hole of said fitting and an attaching hole in one of

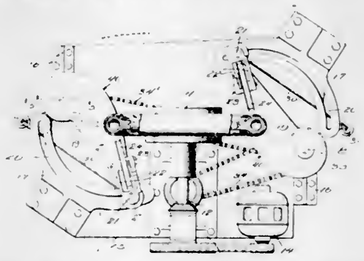
said supporting members; and a nut adapted to coact with said hook bolt to clamp said supporting member and said fitting securely to the automobile frame side bar, substantially as described.

1,335,878. POSTHOLE-DIGGER. WINFIELD SCOTT CRONOWERT, Addie, Idaho. Filed Apr. 20, 1918. Serial No. 229,827. 1 Claim. (Cl. 55—70.)



A post-hole digger including a hollow cutter, a tubular section connected to the cutter, an elongated handle carried by the tubular section and having a longitudinally extending bore, a plunger arranged within said cutter, a plunger rod connected to said plunger and extending through said tubular member and the bore of said elongated handle, a bracket carried by said tubular member, a pivot pin carried by the outer portion of the bracket, and a lever pivoted at its forward end to said plunger rod and having an elongated slot in its central portion receiving said pivot pin, said lever being adapted for reciprocating the plunger rod vertically in spaced relation to said tubular member.

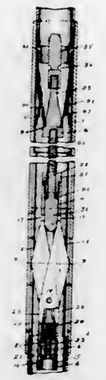
1,335,879. APPARATUS AND METHOD FOR BUILDING PNEUMATIC TIRES. BURGESS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 9, 1918. Serial No. 249,098. 13 Claims. (Cl. 154—10.)



1. An apparatus for applying a strip of material to a rotating tire carcass to form the tread portion and side walls of the tire, comprising the combination of a bobbin carrying the strip of material, and cam-operated means for moving said bobbin transversely of the tire carcass.

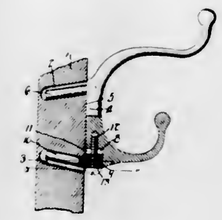
1,335,880. DEVICE FOR TAKING SAMPLES FROM WELLS. REPPS D. DOPPS, Houston, Tex. Filed Aug. 12, 1919. Serial No. 316,994. 4 Claims. (Cl. 255—61.)

1. The combination with a drill stem, having a core forming boring tool secured to the lower end thereof, and provided with a bore to receive said core, of a tubular barrel, secured in said stem and when in operative position, resting upon said tool and whose lower end is provided with slots, interengaging means carried by the stem and barrel, respectively, whereby the barrel is forced to



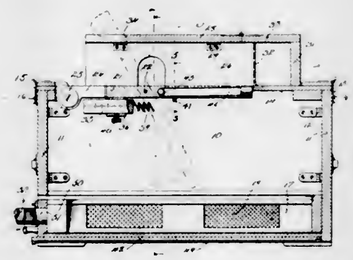
rotate with the stem, and dogs working through said slots, and a tubular casing adapted to fit over said barrel and to force said dogs into engagement with said core.

1,335,881. SUPPORT. JOSEPH DOTTL, Madison, Wis. Filed Aug. 2, 1919. Serial No. 314,967. 6 Claims. (Cl. 45—13.)



1. Means for supporting an article on a background having two holes whose inner ends are nearer together than their outer ends, said means including a first pin fixed to and forming part of the base of said article and received in one of said holes, a second pin movable relatively to said base and toward the first pin and forming with said first pin the jaws of an internal clamp the inner end portions of which are closer together than the outer end portions, and a threaded member housed in the base of said article for drawing the pins toward each other to cause them to clamp the background.

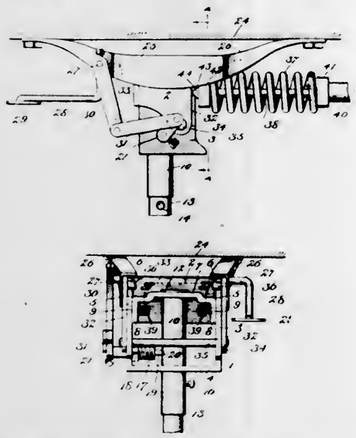
1,335,882. AUTOMATIC RODENT-TRAP. NICHOLAUS DRAG, Milwaukee, Wis. Filed June 25, 1919. Serial No. 306,667. 4 Claims. (Cl. 43—69.)



1. A trap of the character described comprising a trap chamber, means for trapping rodents in the chamber,

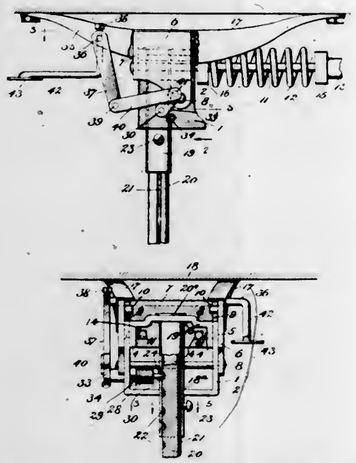
means for closing off a portion of the chamber, and a piston movable through said portion of the chamber for crushing rodents therein.

1,335,883. CHAIR-IRON. OLAF ELTON, Port Washington, Wis. Filed June 6, 1919. Serial No. 302,182. 6 Claims. (Cl. 155—24.)



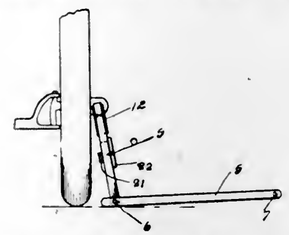
1. In a chair-iron, the combination with a yoke comprising opposite vertical side-walls and a transverse connecting-wall, a transverse brace-plate connecting the side-walls above and spaced from the connecting-wall, said brace-plate and transverse connecting-wall being provided with alining openings, and a supporting-element located in said openings, of a yoke pivoted on the side-walls of the first-mentioned yoke at a point below the transverse brace-plate, and a tension-device for said pivoted yoke.

1,335,884. CHAIR ADJUSTMENT. OLAF ELTON, Port Washington, Wis. Filed June 6, 1919. Serial No. 302,183. 14 Claims. (Cl. 155—77.)



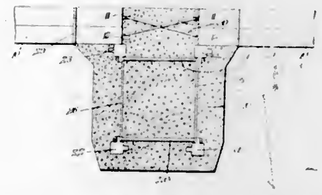
6. In a chair-adjustment, the combination with an adjusting-standard adapted to be mounted in a hub, of a chair-iron mounted for vertical adjustment on the upper portion of said standard, a locking means between the chair-iron and standard and independent of the hub, and means for disengaging said locking means.

1,335,885. AUTOMOBILE-WHEEL JACK. ADAM ERBEL and JOHN WUEPPER, Bay City, Mich. Filed July 17, 1919. Serial No. 311,653. 5 Claims. (Cl. 254—123.)



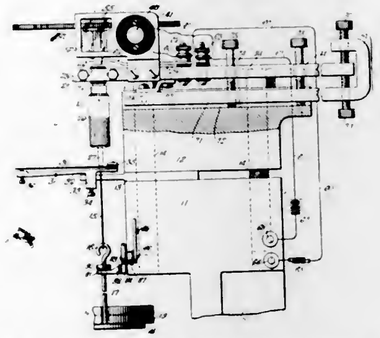
1. An automobile jack comprising a lifting lever having a thrust lever pivoted thereto, a hub seat adjustably mounted on the thrust lever and means for adjusting the said seat, a cross member rigidly secured to the thrust member and extending beyond the edges thereof, and a button pivotally mounted on the opposite side of the thrust lever for locking the same when the wheel is raised.

1,335,886. BUILDING CONSTRUCTION. WILLIAM H. EVERS, Lakewood, Ohio. Filed May 18, 1917. Serial No. 169,386. 1 Claim. (Cl. 72—107.)



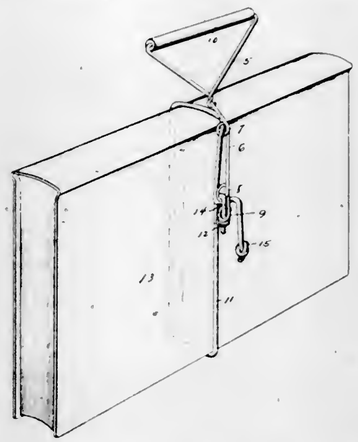
In reinforced concrete floor construction, the combination of a built-up truss forming the reinforcement of a girder, alined concrete beams extending in opposite directions laterally from said truss and having upper and lower reinforcing bars arranged with their ends projecting from the ends of the concrete, said bars being connected together in said beams to form a truss and the ends of the beams being supported directly on the first-mentioned truss, the rods oppositely connecting the said projecting ends of said upper and lower bars of alined beams together across the first-mentioned truss, and the first-mentioned truss, the ends of said beams and said tie rods being embedded in a monolith.

1,335,887. TESTING-MACHINE. WILLIAM J. FRANCKE, Highland Park, N. J. Filed July 10, 1918. Serial No. 244,220. 10 Claims. (Cl. 73—51.)



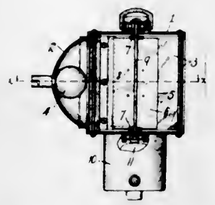
1. In a testing machine, a micrometer support, a base, an inelastic fulcrum connecting the said micrometer with the said base, and adjusting means for imparting a swinging motion to the said micrometer support on said fulcrum.

1,335,888. PACKAGE AND ARTICLE CARRIER. CHARLES FULTON, Coffeyville, Kans. Filed Sept. 29, 1919. Serial No. 327,200. 1 Claim. (Cl. 224—56.)



A device of the character described comprising a shank portion and a handle portion, the shank portion being provided with three eyelets in its length, the two lower of which are close together and a cord or like flexible element passed outwardly through the lower loop, then passed inwardly through the next of said loops, then being extended around an article to be carried and passed outwardly through the upper of said loops and being bound between those portions of the cord which lie between the two lower loops.

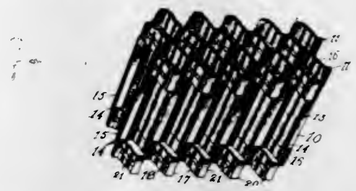
1,335,889. LIGHT-DISTRIBUTING MEANS. WILLIAM H. FULTON, Pittsburgh, Pa. Filed Mar. 13, 1916. Serial No. 83,814. 14 Claims. (Cl. 240—48.)



1. A light distributing device having a source of light and means having openings therethrough disposed in the path of the rays of light and continuously movable and operable as a unit to cause a rapid intermittent interruption of the direct light rays and a deflection of the interrupted light rays at constantly changing angles.

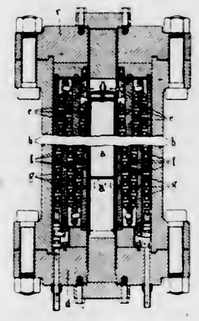
1,335,890. RADIATOR. JOHN B. GABRIELSON, Springville, N. Y. Filed Mar. 27, 1918. Serial No. 224,938. 1 Claim. (Cl. 257—130.)

In a radiator core, pairs of zigzag sheets having horizontal flat parts and having their edge portions contacting and secured together, the divergent parts of said edge portions of the sheets being formed with nesting longitudinal corrugations, and zigzag spacing strips of slightly greater width than the lengths of said contacting edge portions of the pairs of sheets having corresponding flat parts seated upon the respective flat parts of one of the sheets and extending over and beyond the inner ends of said contacting portions, the pairs of sheets



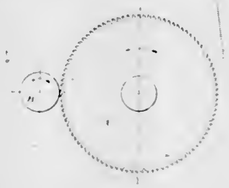
forming one half and the spacing strips the other half of hexagonal air cells, the other sheet of each pair being bent outwardly from points between the front and rear edges of the spacing strips to form water ways, the divergent parts of the spacing strips being formed with longitudinal and with centrally transverse corrugations.

1,335,891. CONSTRUCTION OF CATALYST-FURNACES. HAROLD CECIL GREENWOOD and WILLIAM RONALD TATE, London, England. Filed Mar. 26, 1919. Serial No. 285,217. 3 Claims. (Cl. 23—21.)



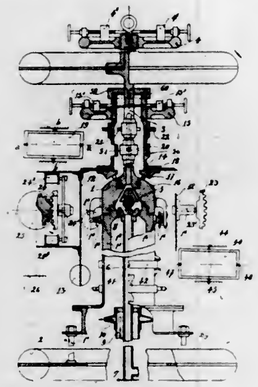
1. A catalyst furnace comprising a catalyst space and a heat interchanger surrounding said catalyst space and comprising one or more thermally insulating partitions shaped to conform to the varying temperature gradient in the interchanger.

1,335,892. CUTTER FOR MILLING SCREW-THREADS. GEORGE G. M. HARDINGHAM, Westminster, London, England, assignor to The Richards Thread Milling Machine Company, (1918) Limited, London, England. Filed June 9, 1919. Serial No. 302,933. 2 Claims. (Cl. 29—103.)



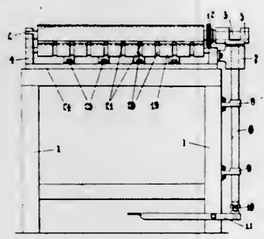
1. For use in milling screw-threads, a multiple thread hob having equally spaced transverse chases whereof the total number, plus or minus one, is divisible by the number of threads constituting the multiple thread employed.

1,335,893. AUTOMATIC STABILIZING APPARATUS. LOUIS ISIDORE HENRY, Toulon, France. Filed Feb. 27, 1919. Serial No. 279,663. 1 Claim. (Cl. 114—122.)



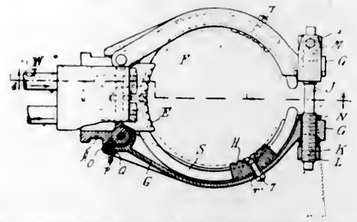
An automatic stabilizing device to prevent pitching of vessels moving through fluids comprising a pendulum consisting of an indeformable revolution element, a stabilizer, two cylinders of stabilization connecting the pendulum to the stabilizer, two false cylinders symmetrical to these cylinders with respect to the point of suspension of the apparatus, pinions supported by the vessel, stabilizing ailerons having manipulating elements, toothed arcs attached to the stabilizer, engaging said pinions and controlling the elements for manipulating the surfaces of the stabilizing ailerons, a hollow rod rigidly attached to the vessel and on which the pendulum is suspended at its center of gravity, said rod conveying compressed air to the pendulum, a blast nozzle crown carried by said rod and located in a plane perpendicular to the axis of the rod, said crown uniformly distributing the compressed air on the inner circumference of the pendulum in such manner as to constantly urge the axis of the pendulum into coaxial relation with the axis of the hollow rod.

1,335,894. APPARATUS FOR WINDING PAPER CARDBOARD AND THE LIKE TUBES. JAMES STEEDMAN HOLMES, London, England, assignor to James Spicer and Sons Limited, London, England. Filed Nov. 8, 1918. Serial No. 261,737. 4 Claims. (Cl. 93—81.)



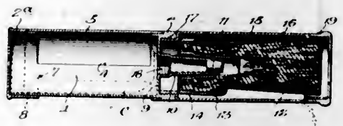
2. A machine as claimed in claim 1, in which the guiding means is a sheet of suitable material curved so that the edge of the sheet of material to be wound into a hollow cylindrical body when it contacts with the guiding surface will be guided around a portion of the periphery of the mandrel in order that the said sheet of material may be operated upon by the guiding means adapted to be brought into coöperation with the mandrel for causing the sheet to be guided over the surface of the mandrel remote from the feed roller and to be moved away for facilitating the removal of the tubular bodies.

1,335,895. ELECTRODE-HOLDER. JOHNSON HUGHES, deceased, Philadelphia, Pa., by Emily W. Hughes, administratrix, Philadelphia, Pa. Filed Mar. 24, 1919. Serial No. 284,695. 12 Claims. (Cl. 204—64.)



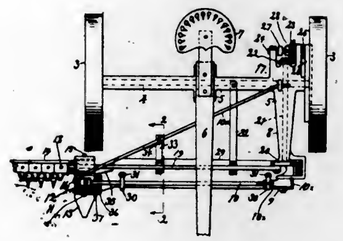
1. The combination with an electrode holder of a water cooled conductor conveying the current from a suitable source to said holder.

1,335,896. SHAVING-BRUSH. FRANK HYDE, Sioux Falls, S. D. Filed Dec. 26, 1918. Serial No. 268,217. 5 Claims. (Cl. 15—50.)



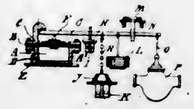
1. In a shaving brush, a case having a cut-out of approximately rectangular form in a side thereof, a sleeve turnably mounted on the case and having a corresponding cut-out for registry with the case cut-out, a removable cap at one end of the case, a brush engaging member at the other end of the case, said member having an interiorly threaded spout to engage with the threaded neck of a tube of shaving cream, and having interior threads spaced from the spout, and a brush having a ferrule formed to conformably engage over the spout and having exterior threads engaging the threads of said member.

1,335,897. PITMAN-PROTECTOR FOR HARVESTING-MACHINES. MELVIN A. JOHNSON, Tenstrike, Minn. Filed May 5, 1919. Serial No. 295,013. 4 Claims. (Cl. 56—284.)



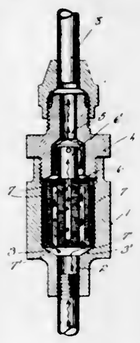
1. In a harvesting machine, a main frame having a bar extending diagonally rearwardly from the shoe of the machine to a point of the frame near the main axle of the machine, and mounted in the frame, a transversely disposed cutter bar, a transversely arranged pitman, a crank operating the pitman, a guarding plate extending all along underneath said crank and pitman, and rearwardly directed braces securing said guarding plate to said diagonal bar and to the main frame; said guarding plate having its front portion inclined upwardly.

1,335,898. FLUID-PRESSURE-OPERATED CONTROLLER. OWEN MARSHALL JONES, New York, N. Y. Filed Mar. 26, 1917. Serial No. 157,450. 6 Claims. (Cl. 74—14.)



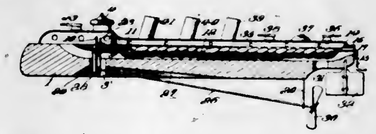
1. In a fluid pressure operated controller, the combination of a pressure chamber provided with a combined inlet and outlet passage through its wall, a piston operatable within the said pressure chamber, means actuated by the said piston and adapted to be connected to and to actuate a part or parts of a device to be controlled, means connected to the said piston actuated means to exert resisting pressure against the piston actuated means proportional to the minimum working pressure in the said pressure chamber, and means to exert resisting pressure against the said piston actuated means proportional to the pressure difference of the minimum and maximum working pressures alternately obtained in the said pressure chamber when automatically engaged by the said piston actuated means and held in place by suitable means when not engaged by the said piston actuated means.

1,335,899. FLUID-FILTER. WILLIAM R. KAHLENBERG, Two Rivers, Wis., assignor to Kahlenberg Bros. Co., Two Rivers, Wis. Filed Jan. 12, 1920. Serial No. 351,025. 4 Claims. (Cl. 210—16.)



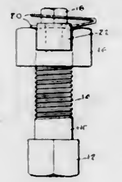
1. A fluid filter comprising a casing having a chamber therein provided with an inlet and discharge, an annular grooved plug fitted in the casing chamber having sets of longitudinal inlet and discharge grooves interrupting the annular grooves, the longitudinal sets of grooves being extended a predetermined distance from the opposite ends of said plug.

1,335,900. TOY BOAT. HARRY T. KINGSBURY and EDWARD J. KINGSBURY, Keene, N. H. Filed Aug. 2, 1918. Serial No. 247,924. 6 Claims. (Cl. 46—37.)



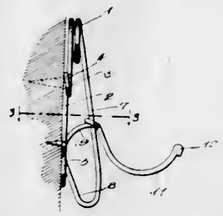
1. In a toy boat, a hull provided with a transverse opening extending through the hull, a bracket located in said opening, a driving shaft journaled in said bracket and provided with a gear located in said opening, a second bracket detachably depending from said first mentioned bracket into said opening, a propeller shaft journaled in said bracket, and a gear on said shaft meshing with the gear on said driving shaft.

1,335,901. NUT AND BOLT LOCK. OLIVER B. KIRKBRIDE, Minneapolis, Minn., assignor of one-fourth to Donald K. Kirkbride, Minneapolis, Minn. Filed Oct. 2, 1919. Serial No. 327,936. 2 Claims. (Cl. 151—29.)



1. In a device of the character described, the combination of a bolt and a nut, a strip of sheet metal having a hole in its center and having its ends bent into engagement with opposite sides of the nut, a second strip of sheet metal one end of which has a hole and is placed underneath said first-mentioned strip with the two holes in register with each other, and a tap bolt adapted to be inserted through said holes and turned into screw-threaded engagement with a longitudinal hole in the nut-engageable end of the bolt, said second strip having its free end provided with an angular hole for fitting over the head of said tap bolt when said free end is bent down.

1,335,902. GARMENT-HANGER. JOHN L. LYMAN, Easthampton, Mass. Filed May 22, 1919. Serial No. 298,984. 1 Claim. (Cl. 248—27.)

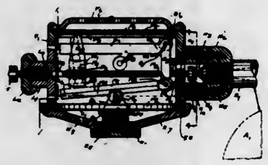


A device of the class described, formed of a single length of wire coiled between its ends to form a spring, the ends of the wire depending from said spring to provide front and rear arms, the rear arm being coiled between its ends to form an eye for the reception of a fastener, the lower end of said rear arm being bent to form a loop in approximately the same plane with said spring and eye and adapted to rest against the wall or the like to which the device is secured, the end of the wire after forming said loop, extending rearwardly to provide a prong adapted to penetrate the wall or the like; the front arm being bent upwardly and rearwardly and then forwardly to provide a gripping element for coaction with the aforesaid loop, said forwardly extending portion being wrapped around the vertical part of said front arm and then extending forwardly to provide an article supporting hook.

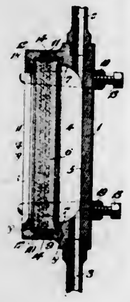
1,335,903. PRESSURE-REGULATOR. JAMES MCNAMARA, Portland, Oreg. Filed Mar. 20, 1919. Serial No. 283,925. 1 Claim. (Cl. 50—26.)

In a pressure regulator the combination of a gas chamber having a high pressure inlet valve and a regulated pressure outlet with a valve regulating mechanism, consisting of a diaphragm arranged to form the bottom of said gas chamber, a perforated cap adapted to hold said diaphragm in place, a spring placed between

said cap and diaphragm, in a manner to return said diaphragm to its original position when the contained pressure is reduced, a knuckle member secured upon said diaphragm, a guide hinged inside of said chamber and joined to said knuckle, a slide mounted on said guide having an eye at its upper end, a forked nut adapted to engage said slide, a screw adapted to move said nut and be operated from the exterior of said chamber, a bell crank lever adapted to enter the eye of said slide and be actuated thereby and having its other arm arranged to actuate said high pressure inlet valve.

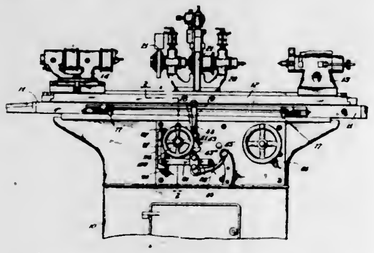


1,335,904. WATER-GAGE. EDWIN MACNEIB, Philadelphia, Pa., assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 22, 1915. Serial No. 57,280. 10 Claims. (Cl. 73—54.)



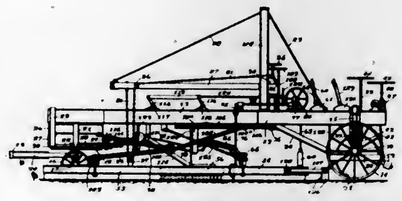
1. A water gage, comprising in combination, a casing, a sight member, said casing and sight member having their adjacent faces forming walls diverging inwardly, a wedge-shaped packing between said walls, a glass between said casing and sight member, and means to clamp said sight member and casing together to cause said packing to engage only the lateral walls of said glass, whereby the rear face and a portion of the lateral walls of the glass are pressure packed by the steam.

1,335,905. GRINDING-MACHINE. RAYMOND C. MITCHELL, Springfield, Ohio, assignor to The Webster & Perks Tool Company, Springfield, Ohio, a Corporation of Ohio. Filed Apr. 22, 1918. Serial No. 230,177. 15 Claims. (Cl. 51—4.)



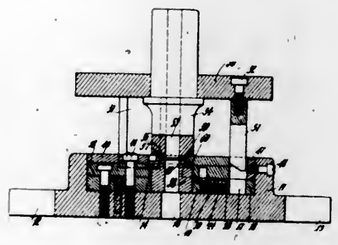
1. In a machine of the character described, having a traveling table and a bed having front and end walls provided with openings, closures for said front and end openings, table driving reversing and speed-changing gearing carried by said closure for the front opening, gearing-driving means carried by said closure for the end opening, said driving means and gearing being coöperatively related when said closures are in place, and being removable from the bed with their respective closures.

1,335,906. ROAD PLANING AND FINISHING MACHINE. ORTUS E. MOATS, Chicago, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Aug. 18, 1915. Serial No. 46,122. 6 Claims. (Cl. 37—7.)



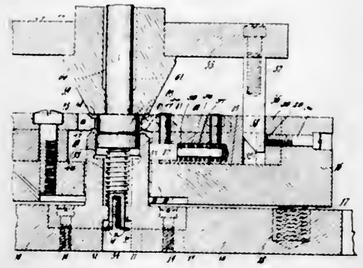
1. A road machine comprising a main frame, scrapers arranged to project forward and laterally at each side of said main frame and to swing toward and from said frame, toggle mechanism for each of said scrapers adapted to be actuated to move said scrapers laterally, rack bars mounted on said main frame and operatively connected with said toggle mechanism, and means engaging said rack bars for moving the same to actuate said toggle mechanism.

1,335,907. DIE. FREDERICK E. MUELLER, Mount Vernon, N. Y., assignor to The Norma Company of America, Long Island City, N. Y., a Corporation of New York. Filed Jan. 3, 1919. Serial No. 269,483. 3 Claims. (Cl. 113—48.)



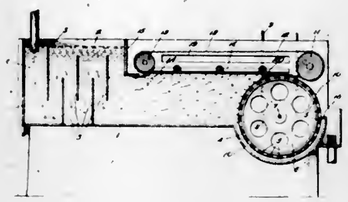
1. In a die for forming outwardly bent flanges on tubular articles, a support for the article to be formed, an upper member adapted to engage the article to shape the same, a plurality of radially disposed holding members, movable transversely to the direction of movement of said upper member, means adapted to project said holding members into engagement with said article to hold the same during the forming operation, the holding surfaces of said member in said projected position consituting a substantially continuous annular holding means for supporting said article exteriorly, the upper surface of said holding means constituting a substantially continuous laterally disposed surface adapted to coöperate with said upper member to form a lower shaping portion to shape the article, and means on said support and said upper member adapted to support the article interiorly during the forming operation.

1,335,908. DIE. FREDERICK E. MUELLER, Mount Vernon, N. Y., assignor to The Norma Company of America, Long Island City, N. Y., a Corporation of New York. Filed Jan. 3, 1919. Serial No. 269,484. 4 Claims. (Cl. 113—48.)



1. In a die for shaping lateral configurations on tubular articles, a stationary lower die member, an upper member, a resilient bed adapted to have up and down movement and surrounding said lower die member, holding members supported on said bed and adapted to be moved into engagement with said article to support the same exteriorly during the forming operation, a preliminary depressible positioning means on said lower die member adapted to position the article thereon and means on said upper member adapted to enter within the article, disengaging said positioning means therefrom and supporting said article interiorly during the forming operation.

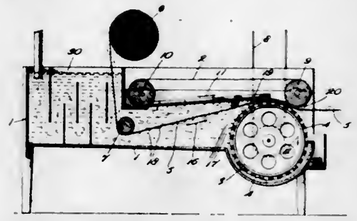
1,335,909. THERMO-INSULATION MATERIAL AND PROCESS OF PRODUCING THE SAME. TREADWAY B. MUNROE, Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Filed Apr. 3, 1919. Serial No. 287,138. 9 Claims. (Cl. 154—44.)



1. The process of producing waterproof heat insulating blocks of fibrous material which consists in providing a solution of cellulose fibers; said fibers composed of coarse sliverlike portions to give porosity to the mass, of long hair like portions to act as a binder, and of short hair like portions to act as a filler; mixing with said solution a waterproofing material; felting said fibers into sheets containing more than 40% of water; removing substantially all of the moisture from said sheets; and securing a plurality of said sheets together to form a block, substantially as described.

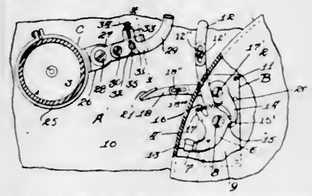
1,335,910. REINFORCED FIBROUS BOARD AND PROCESS OF PRODUCING THE SAME. TREADWAY B. MUNROE, Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Filed Apr. 3, 1919. Serial No. 287,139. 8 Claims. (Cl. 92—40.)

1. The process of increasing the strength of fibrous board material which consists in felting the fibers against separated traveling surfaces; felting other fibers on a reinforcing material located between said traveling surfaces;



and felting all of said fibers together with still other fibers to form a single adhering mass, substantially as described.

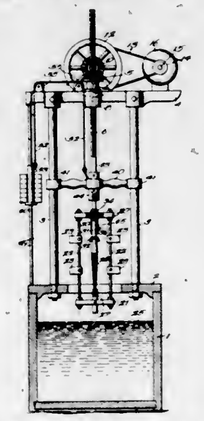
1,335,911. PHONOGRAPH-STOP. FRANCIS A. NOLAN, St. Paul, Minn. Filed Oct. 13, 1917. Serial No. 196,382. 5 Claims. (Cl. 74—46.)



1. Brake mechanism in which a brake member occupies two positions, one where the brake is set and the other where the brake is released, a tone arm, having a support, an actuating member on the support adjustable to cause the setting of the brake, and means carried by the actuating member adapted to compensate for a predetermined amount of lost motion of said parts.

4. Brake mechanism in which a brake member occupies two positions, one where the brake is set and the other where the brake is released, a tone arm having a support mounted thereon, an actuating member mounted on said support and adjustable about the tone arm adapted to cause the setting of the brake, and means carried by the actuating member adapted to be selectively positioned to compensate for a predetermined amount of lost motion of said parts.

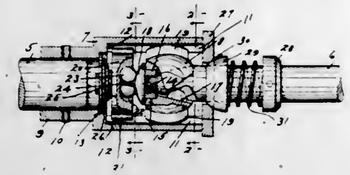
1,335,912. HARDENING-MACHINE. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1919. Serial No. 274,169. 6 Claims. (Cl. 266—6.)



1. A tempering machine having a stationary frame, a bath, a work holder movable vertically toward and from

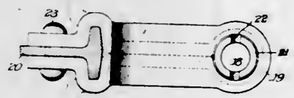
the bath, means for rotating the work holder about a vertical axis regardless of the vertical position of the work holder, and a nonrotatable handle guided by the frame and adapted to control the position of the work holder vertically.

1,335,913. UNIVERSAL JOINT. ERICK GUSTAF ORBOM, Williston, N. D. Filed July 28, 1917. Serial No. 183,280. 3 Claims. (Cl. 64—91.)



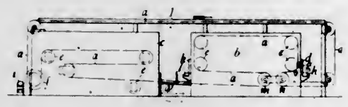
1. The combination with two shaft sections, of a universal joint connecting the same, said joint comprising a cylindrical outer member and a spherical inner member, said two members having interlocking clutch teeth arranged to permit universal angular and endwise movement of one of the two shafts with respect to the other, a thrust block mounted in the outer member and interlocked with the clutch teeth thereof with freedom for axial movement with respect to said outer member, roller bearings mounted in a roller seat formed in the thrust block, and a spring yieldingly holding the thrust block with its roller bearings in engagement with the spherical surface of said inner member.

1,335,914. BRAKE-BEAM FULCRUM. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 15, 1917. Serial No. 207,306. 4 Claims. (Cl. 29—164.)



1. The method of forming a brake beam fulcrum consisting first in providing a blank with an opening, then bending the blank at the opening to form spaced walls for the reception of a supporting member, and then upsetting said walls to increase the strength thereof against stresses exerted in a given direction.

1,335,915. BREAD-MAKING MACHINERY. JOHN EDWARD POINTON, Peterborough, England. Filed Mar. 26, 1918. Serial No. 224,793. 2 Claims. (Cl. 107—57.)



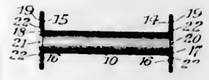
1. In bread making machinery, the combination with a final proving chamber and a baking chamber each of said chambers forming a separate and independent unit, of an endless conveyer for the dough portions, means whereby the said conveyer is caused to travel in a circuitous path through both of said chambers and to return exteriorly to the same from the outlet of the baking chamber to the inlet of the proving chamber, and means for varying the time of transit of the dough portions between the chamber entrance and exit apertures without varying the speed of the conveyer, as set forth.

1,335,916. TIRE. AMBROSE MACDONALD POYNTER, London, England. Filed Dec. 17, 1918. Serial No. 267,219. 12 Claims. (Cl. 152—14.)



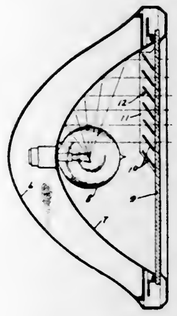
1. An elastic tire having a tread portion formed to define lateral shoulders and anti-slipping studs on the tire, said studs comprising angle-plates the side portion of which abuts against the said shoulder and the base portion is seated against the tire.

1,335,917. FILM-SPOOL FOR PHOTOGRAPHIC CAMERAS. JOSEPH H. RAMSEY, Albany, N. Y. Filed May 10, 1917. Serial No. 167,635. 5 Claims. (Cl. 242—71.)



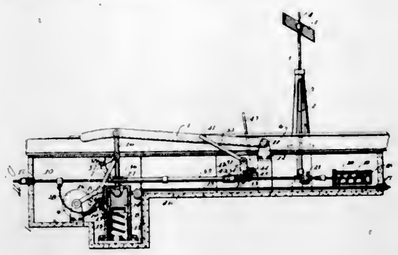
2. A film-spool for photographic cameras, comprising a tubular shank composed of a sheet metal blank of rectangular form having on one edge a projection and on the opposite edge a recess of like length but less depth, the blank being bent to tubular form and having the said projection extending into the said recess to leave a closed-end slot for the end of the film-backing, the shank at its ends having radially extending abutments; and sheet metal end-disks locked upon said abutments and held thereby against axial displacement.

1,335,918. LAMP-DIMMER. GEORGE W. RAY and WILLIAM V. HARRINGTON, Minneapolis, Minn.; said Ray assignor to said Harrington. Filed May 8, 1919. Serial No. 295,676. 3 Claims. (Cl. 240—48.4.)



1. A combined lens and dimmer for headlights and the like, comprising a plurality of slats that are oblique to the plane of the lens, and seats integrally formed with the lens for holding the slats.

1,335,919. RAILROAD SIGNAL SYSTEM. MAURICE W. REEDY, Aurora, Ill., assignor of one-half to Fred B. Shearer, Aurora, Ill. Filed Feb. 27, 1919. Serial No. 279,531. 10 Claims. (Cl. 246—103.)



1. In a railroad signal system, the combination of a signal, a tripper arm arranged adjacent to the track in position to be actuated by trains passing thereover, a cable leading from said signal to a point adjacent to said tripper arm, a drum journaled adjacent to said tripper arm and adapted to have said cable wrapped therearound, and a link connection between said drum and tripper arm whereby the depression of said tripper arm rotates said drum.

1,335,920. DUST-PROOF AND MOTH-PROOF WARDROBE. JAMES ROCKETT, Cleveland, Ohio. Filed Feb. 23, 1917. Serial No. 150,313. 4 Claims. (Cl. 20—69.)



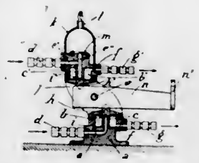
3. As a new article of manufacture, a wardrobe having an opening in its face, the corners of said opening being rounded and its edges beveled, a door having beveled edges and rounded corners and adapted to fit into said opening, a grooved molding secured upon the interior of said wardrobe and extending around the inner edges of said opening, an elastic tube held in said molding and adapted to be engaged by said door when fitted into said opening.

1,335,921. DIAPHRAGM-SOUNDER AND THE LIKE. HELGE SVEN ALBERT RYDBERG, Lund, Sweden. Filed Apr. 16, 1917. Serial No. 162,498. 1 Claim. (Cl. 116—138.)



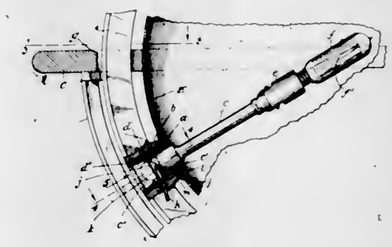
Means for producing vibrations, comprising a cylindrical casing, provided at one side adjacent to one end with a fluid inlet, the other end of the casing being interiorly threaded, a conical flange united with the casing at the end thereof, adjacent the inlet and extending inwardly therefrom and truncated at the apex and provided thereat with an abrupt, cylindrical lip arranged substantially concentric with the casing and constituting an outlet, an adjustable cylindrical diaphragm holder, exteriorly threaded to engage the threads of the casing and mounted within the threaded end thereof and provided at its inner end with an inwardly extending annular flange surrounding said lip and spaced therefrom, and recessed at its inner edge to form a diaphragm seat located in substantially the plane of the end of the said lip, a diaphragm arranged on the said seat and extending over the lip and covering the outlet, and a clamping ring threaded into the diaphragm holder and provided with an inwardly extending flange engaging the diaphragm adjacent the periphery thereof and securing the said diaphragm on its seat, said annular and conical flanges forming an annular fluid space tapered radially from the casing to the space between the annular flange and the said lip.

1,335,922. AUTOGENOUS-WELDING APPARATUS. ANTOINE SAULZE, Lyon, France. Filed Sept. 24, 1918. Serial No. 255,478. 2 Claims. (Cl. 158—27.4.)



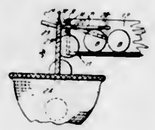
1. An autogenous welding apparatus of the character described comprising a support, a tube for conveying oxygen gas, and a tube for conveying acetylene gas, and mounted on said support, a valve in each of said tubes, a balanced lever mounted on said support, means actuated by said lever whereby when the lever is depressed the said valves are operated to prevent the passage of the gases through said tubes, and when released, the valves are operated to allow the gases to pass, a by pass burner, and means allowing the gas to constantly pass to said by pass burner.

1,335,923. GLOBE. ARTHUR SCHRENKEISEN, New York, N. Y. Filed Dec. 11, 1918. Serial No. 266,205. 11 Claims. (Cl. 35—5.)



8. An internally illuminated globe having supports on opposite sides permitting the rotation of the globe on an axis, and an internal source of light and means for carrying the same by insertion through one of said supports while the globe remains on the support, ventilating means apart from the supports at opposite sides of the globe.

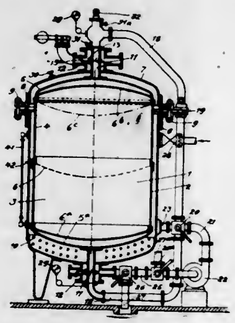
1,335,924. BALL-RECEPTACLE FOR POCKET-BILLIARD TABLES. JAMES S. TREW, Santa Ana, Calif., assignor of one-half to Harry C. Burke, Santa Ana, Calif. Filed Nov. 7, 1918. Serial No. 261,515. 3 Claims. (Cl. 46—12.)



1. In combination with a pocket billiard table gully box having a ball outlet opening at its end, movable sup-

porting means for a basket suspended in position below the outlet opening, and a ball stop member movable by said movable supporting means, said movable supporting means and said ball stop member embodying a pivoted lever one arm of which projects outside the gully box and on which the basket is hung and the other arm of which projects inside the gully box in the path of the balls on their way to the outlet opening.

1,335,925. BLEACHING-BOILER PLANT. CONRAD TÜTSCH, Winterthur, Switzerland. Filed Sept. 21, 1918. Serial No. 255,081. 7 Claims. (Cl. 8—18.)

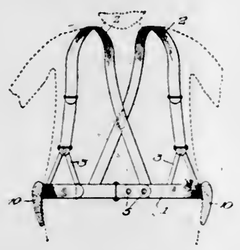


1. In an apparatus for treating textile fabric by means of heated liquid, a separate inner boiler (1) for receiving the textile fabric, a boiler (2) surrounding the inner boiler on all sides and shut off from the outer air, for heating the contents of the inner boiler, and a piping (18) connected to both ends of the inner boiler, leading beyond the outer boiler and connected with the interior of the outer boiler.

1,335,926. METHOD OF RECLAIMING RUBBER. DOUGLAS FRANK TWISS, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, Birmingham, England. Filed Dec. 6, 1918. Serial No. 265,651. 4 Claims. (Cl. 18—52.)

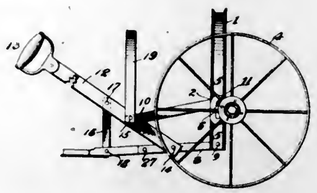
3. The process for the regeneration of vulcanized rubber which consists in dividing the rubber into pieces, placing it loosely in a chamber, expelling the air from the said chamber by the injection of steam under pressure and heating the rubber while in a loose condition in the chamber by an externally applied source of heat.

1,335,927. TROUSERS-SUPPORT. HARRY G. AINSWORTH, Kentland, Ind. Filed Apr. 17, 1919. Serial No. 290,682. 3 Claims. (Cl. 241—12.)



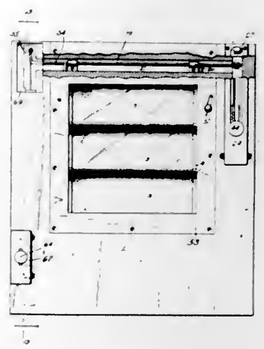
1. In a trousers supporting device adapted to be worn beneath the outer shirt, a belt supported from the shoulders and trouser supporting pads attached to the outside of the belt, one over each hip, when the device is in use.

1,335,928. SPRING-BEAM CULTIVATOR. JAMES G. ALEXANDER, Ames, Iowa. Filed Oct. 23, 1918. Serial No. 259,338. 3 Claims. (Cl. 97—42.)



3. In a cultivator of the class described, the combination, with a front arched channel iron, wheels connected to said channel iron, of a pair of spring primary beams connected to the lower ends of said arched channel iron, a pair of spring auxiliary beams connected to said channel iron above said primary beams, a rear spring arch, a pair of handles connected near their lower ends to the primary beams, means connecting the lower ends of the rear arch and the rear ends of the auxiliary beams to said handles, vertical braces connecting the primary beams and the handles together beyond the rear arch, and tool supporting means secured to the primary beams.

1,335,929. AUTOMATIC WINDOW-VENTILATOR. VICTOR M. ALLEN, Waverly, N. Y. Filed Apr. 5, 1919. Serial No. 287,858. 16 Claims. (Cl. 98—31.)



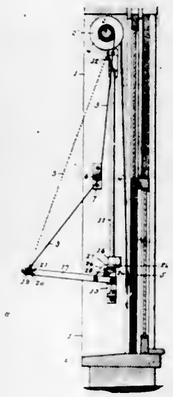
10. In a window ventilator, the combination with a panel pivoted to swing on a horizontal axis, of a rock shaft having a crank arm, means of connection between said crank arm and the panel, a lever secured to said rock shaft, a counterbalancing weight on said lever, adjustable slides carrying stops for limiting the movement of the lever, a casing for housing said slides, means for adjusting the slides in the casing, and leaf springs interposed between the slides and casing for retaining said slides in set positions.

12. In a window ventilator, the combination with a movable panel, of a mercury tube, a weight in said tube, a float supporting the weight on the surface of the mercury, operative means of connection between said weight and the panel for moving the latter toward open or closed position as the mercury rises or falls, and means for adjusting the mercury tube vertically for the purpose specified.

1,335,930. WINDOW-AWNING. HARVEY C. BAKER, Chicago, Ill. Filed May 1, 1919. Serial No. 294,031. 7 Claims. (Cl. 156—44.)

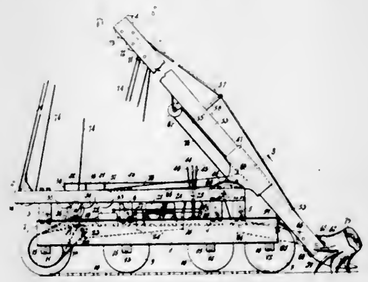
7. In an awning of the type described, the combination of an awning extending arm, a guide rail, a sliding head

on said rail having pivotal connection with arm aforesaid and provided with a vertically movable stop member and a horizontally movable holding member, and a pawl pivoted to said arm and having a point portion adapted for holding engagement with the aforesaid vertically mov-



able stop member, with an intermediate offset portion adapted for operative engagement with the aforesaid horizontally movable holding member and with a cam surface in a side face for operative engagement with said horizontally movable holding member, substantially as set forth.

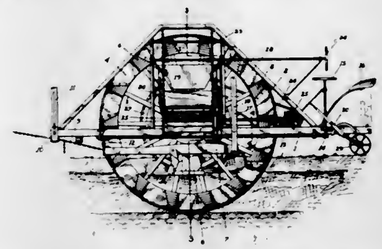
1,335,931. STUMP-PULLING MACHINE. RALPH E. BALSLY, Cincinnati, Ohio. Filed July 14, 1919. Serial No. 310,629. 7 Claims. (Cl. 254—128.)



1. In a power operated stump-pulling machine, an element to engage under an obstruction, a fulcrum for said element, tiltable means pivotally mounted on said fulcrum, slidable means in said tiltable means, and power operated means connected to said slidable element for pulling down on the upper end of said slidable element across said fulcrum to dislodge said obstruction.

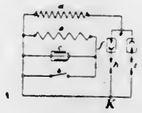
1,335,932. EXCAVATING-MACHINE. ROBERT A. BAYLES, Stockton, Calif. Filed Mar. 25, 1919. Serial No. 285,040. 2 Claims. (Cl. 37—29.)

2. In an excavator having a frame, a wide faced wheel mounted therein and a balance wheel on one side thereof, means whereby the balance wheel may be adjusted both for height and transverse distance relative to the first named wheel, such means including a beam projecting from the frame at right angles thereto, a carriage adjustably mounted to the beam for longitudinal movement relative thereto, and a shaft extending parallel to the beam and adjustably clamped to the carriage against turning movement rela-



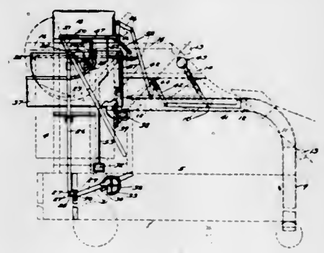
tive thereto, the shaft having an extension thereon beyond the carriage at right angles to the beam, the balance wheel being mounted on this extension and parallel thereto.

1,335,933. HIGH-VOLTAGE-CURRENT-DISTRIBUTING APPARATUS FOR THE ELECTRIC IGNITION APPARATUS OF INTERNAL-COMBUSTION ENGINES. JACQUES BOHLI, Obach, Solothurn, Switzerland, assignor to Firm Scintilla, Solothurn, Switzerland. Filed May 13, 1919. Serial No. 296,762. 1 Claim. (Cl. 123—148.)



In a high-voltage current distributing apparatus for the electric ignition apparatus of internal combustion engines, the combination of two ignition circuits connected to each other in parallel, two ignition points for each engine cylinder located respectively in said two ignition circuits, and two current-rectifiers located respectively in said two ignition circuits, so connected and operating as to cause said two ignition circuits to allow the igniting current to flow in them in mutually opposite directions.

1,335,934. CONCRETE-MIXER. EDWARD W. BRACKENBURY, Milwaukee, Wis., assignor to The T. L. Smith Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 20, 1916. Serial No. 73,144. 8 Claims. (Cl. 83—73.)

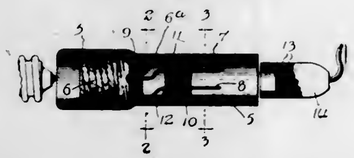


1. In a concrete mixer, a rotary mixing drum, a movable charging device, a discharge spout, and means operated by contact with and movement of the charging device for moving the discharge spout to an inoperative position as the charging device moves to a position for introducing a new charge to the drum.

3. In a concrete mixer, a rotary mixing drum, a charging device having a discharge lip and a water sup-

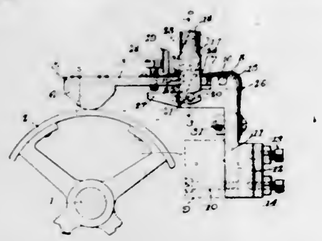
plying device, means for causing a commingling of streams of water and dry materials during their introduction to the drum comprising a stationary water chute projecting into the drum and connected to the water supply device, said water chute being located adjacent to and underlying the discharge lip of said charging device when the same is in charging position, and means for automatically starting the flow of water through said chute as the charging device introduces its charge to the drum.

1,335,935. ADAPTER. WILLIAM J. CAMERON, Chicago, Ill. Filed May 4, 1916. Serial No. 95,398. 2 Claims. (Cl. 173—324.)



1. A connecting device for electric circuits comprising a plug member having hollow contact terminals each connected to its respective circuit wire, a shield around said plug and extended beyond the end thereof so that the adjacent ends of said terminals are disposed inside said shield member, a separate unitary member adapted to coöperate with said plug member consisting of an insulating tube having corresponding electrical contact members disposed entirely therein and shielded thereby; said contact members adapted to be engaged by and make connection with the terminals in said plug member into the socket member, and a threaded metallic cup inclosed in said tube and connected to said contact members, whereby said separate unitary member is adapted to receive the plug of an electric lamp at one end and to form electrical contact connection therefor at the opposite end.

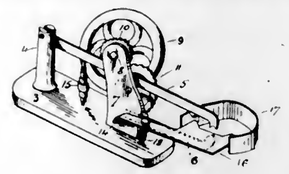
1,335,936. ELECTRIC SWITCH. HARRY E. CAMPBELL, Milwaukee, Wis., assignor to Union Electric Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 2, 1919. Serial No. 321,181. 9 Claims. (Cl. 171—323.)



2. In an electric switch, in combination, a support, a contact finger having at one end an open pivotal bearing on said support and having at its other end a contact, a cap member detachably engaging said support, and means contained in said cap member for yieldingly maintaining the contact finger in engagement with the support and permitting the movement of said contact.

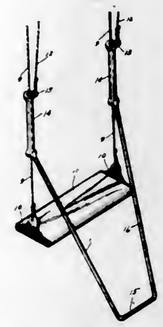
1,335,937. MACHINE FOR BREAKING UP TOFFEE AND OTHER LIKE MATERIALS. HENRY ROBERT HOWARD CLAYTON and OSBOURNE JOHN ROSE, Hobart, Tasmania, Australia. Filed Sept. 8, 1919. Serial No. 322,538. 5 Claims. (Cl. 107—7.)

1. In a machine of the kind indicated, a jaw composed of a fixed member and a movable part, a cam device revolving in the machine connected with and reciprocating said movable part and a feed plate susceptible to



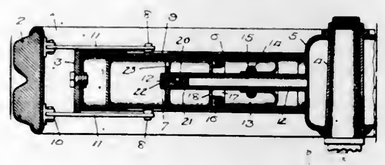
an up and down motion, the feeding surface of which is normally slightly above the cutting edge of the said fixed member.

1,335,938. SWING. CARROLL D. CLIFFELL and GEORGE MANIKOWSKE, Wyndmere, N. D. Filed May 26, 1919. Serial No. 299,823. 2 Claims. (Cl. 155—35.)



1. A swing comprising an overhead support, a seat, a pair of suspension members suspending the seat from the overhead support, a pair of pulling members attached to the overhead support and offset from the seat suspension members in the plane of oscillation of the swing, a pair of handles slidable on the seat suspension members and attached to the pulling members, and a foot rest having a pair of arms attached to the handles and rigidly connecting the foot rest thereto.

1,335,939. VEHICLE-WHEEL. GEORGE W. DAGUE, Alexandria, La. Filed Feb. 24, 1919. Serial No. 278,847. 4 Claims. (Cl. 152—28.)



2. A vehicle wheel embodying a hub, tubular spokes carried by the hub, a rim, hollow plungers connected to the rim and slidably fitting said spokes, members extending from the hub within said plungers, and diaphragms within the spokes connected to said plungers and members and forming air cushions.

1,335,940. INTENSIFIER FOR SPARK-PLUGS. JOHN A. DE VILBISS and HENRY L. MILLER, St. Louis, Mo.; said De Vilbiss assignor of his right to George F. Ernst, St. Louis, Mo. Filed Apr. 5, 1919. Serial No. 287,879. 3 Claims. (Cl. 175—183.)

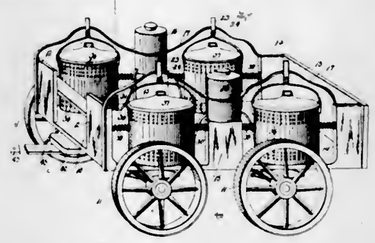
1. An intensifier for spark plugs, comprising a body portion provided on its interior with a spark gap, and a

threaded tube in said body portion, the upper end of which forms one side of said gap and the lower end of



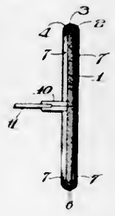
whcih is adapted to be threaded directly onto a spark plug.

1,335,941. FIELD-KITCHEN. VINCENZO DE CARLO, Wireton, Pa. Filed June 5, 1918, Serial No. 238,385. Renewed Feb. 24, 1920. Serial No. 360,763. 8 Claims. (Cl. 126—276.)



1. A field kitchen including a wheeled bed having spaced uprights, fuel tanks mounted upon the uprights, bridge bars encompassing the fuel tanks and bowed upwardly adjacent the sides thereof, the same being supported at their ends upon the bed, shock absorbing hangers mounted upon the upwardly bowed portions of said bridge bars, cooker devices depending from the hangers, and connections between the fuel tanks and the cooker devices whereby to supply the latter with fuel.

1,335,942. RIM FOR EYEGLASSES AND SPECTACLES. EDGAR R. DURGIN, Newark, N. J., assignor to New Jersey Optical Co., Newark, N. J., a Corporation of New Jersey. Filed Feb. 5, 1919. Serial No. 275,095. 3 Claims. (Cl. 88—47.)



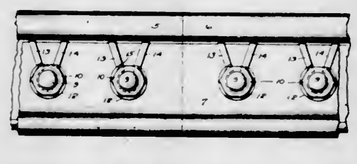
1. A rim for eyeglasses and spectacles, comprising an inner metal eye wire having a groove to receive and hold the edges of a lens, the opposite sides of the said eye wire on opposite sides of said groove being beveled inwardly forming surfaces which meet the intermediate peripheral surface in circular lines and from angles therewith, and an outer non-metal frame member having a groove upon its inner side in which said metal frame member is situated, the opposite side portions of said non-metal member extending inwardly over the beveled surfaces of said eye wire, substantially as described.

1,335,943. CORD-TERMINAL FOR ELECTRIC WIRES. ALBERT L. EMENS, Springfield, Ill., assignor to Sangamo Electric Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 14, 1916. Serial No. 125,691. 5 Claims. (Cl. 173—269.)



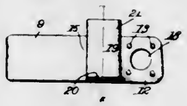
5. A cord terminal comprising two semi-cylindrical sheet metal members arranged with their side margins abutting to form a tube open at one end, the opposite end portions of said members being integrally connected with a substantially flat folded portion, a separate block within such folded portion, said block having a screw-threaded bore registering with perforations in said folded portion, the side of said block adjacent to said semi-cylindrical members being rounded, and means for holding said semi-cylindrical members together.

1,335,944. LOCK-WASHER. WILLIAM F. FARNSWORTH, Washington, D. C. Filed Aug. 28, 1919. Serial No. 320,480. 5 Claims. (Cl. 151—41.)



1. A device of the character described comprising a substantially circular bolt embracing body portion, upwardly extending divergent arms carried by said body portion and a pawl tooth located at the juncture of said body portion and one of said arms.

1,335,945. LINEMAN'S CLIMBER. JAMES M. FRISBIE and EDGAR C. TILTON, Thompson Falls, Mont. Filed July 26, 1918. Serial No. 246,850. 4 Claims. (Cl. 36—60.)

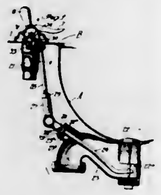


1. An attachment for a lineman's climber having a foot support comprising sections, an arch rising from one of the sections having side walls, and a crown wall connecting said side walls and being spaced from one end of the side walls and projecting laterally beyond one side of the supports, one of the sections being movable relatively to the other to permit insertion of the climber between them and movement of the climber into the arch, said climber adapted to be disposed in abutment with the side walls and the ends of the crown wall.

1,335,946. LAVATORY. EARL G. WATROUS, Chicago, Ill. Filed Jan. 29, 1917. Serial No. 145,261. 10 Claims. (Cl. 4—24.)

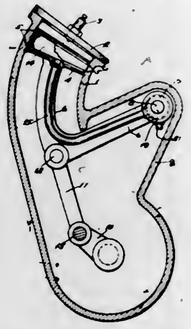
1. In a lavatory having a bowl and a plurality of independently operable mechanisms for controlling water flow with respect to the bowl, a part having upstanding ends and an intermediate opening, a series of handled members having their handles projecting within convenient single-

hand-grasp, said members arranged in axial alinement, extending through and substantially filling said opening,



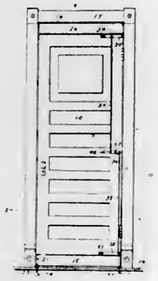
and mounted for individual oscillation, and operating connections between said members and said water flow controlling mechanisms.

1,335,947. INTERNAL-COMBUSTION ENGINE. FERDINAND G. WELKE, San Francisco, Calif. Filed Aug. 2, 1919. Serial No. 314,859. 5 Claims. (Cl. 123—197.)



1. In an internal combustion engine, a cylinder formed with a portion having its axis lying in the arc of a circle, and terminating in a cylinder casing, a piston operatable within said arcuate cylinder portion, a piston-rod fixed to said piston at one end and at the other end pivotally mounted to a fulcrum arranged within said cylinder casing centrally of the arc of said cylinder, a crank within said cylinder casing, and a connecting rod within said cylinder casing pivotally connected to opposite ends to said crank and piston rod for transferring oscillatory movement of said piston-rod to rotary movement of said crank.

1,335,948. VENTILATING MEANS. SETH A. WELLMAN, Mason City, Iowa. Filed Nov. 14, 1918. Serial No. 262,466. 7 Claims. (Cl. 98—27.)

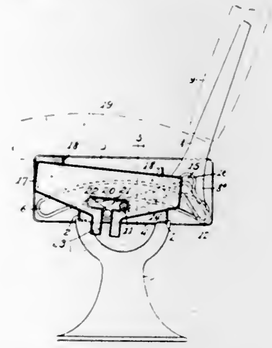


7. Ventilating means, comprising the combination with a door mounted for oscillation in a frame and spaced at its upper and lower margins from said frame to provide ventilating spaces, of movable shutters hinged on transverse horizontal axes and adapted at times to close the said spaces, said shutters normally tending to remain in such vertical closing positions, angular shutter moving arms pivotally mounted and adapted to engage said shutters when oscillated in one direction, to move and hold said shutters to horizontal positions, said shutter moving arms being formed with members extending across the adjacent margins of the door and with lugs engaging the opposite side thereof, latching bars pivoted on said door and adapted to connect said lugs thereto, whereby said arms are oscillated with the door, and means for conjunctively releasing said latching bars.

1,335,949. SODA-LIME COMPOSITION AND METHOD OF PREPARING THE SAME. ROBERT E. WILSON, Washington, D. C., and CLAUDE P. MCNEIL, Astoria, N. Y. Filed Oct. 2, 1918. Serial No. 256,538. 7 Claims. (Cl. 23—22.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. In a composition of the soda-lime type for the absorption of gases, a relatively slow setting cement.

1,335,950. RAILWAY-CAR SEAT. WILLIAM S. WRIGHT, Newark, Ohio, assignor to Bessie B. Wright, Annapolis, Md. Filed Mar. 15, 1919. Serial No. 282,802. 9 Claims. (Cl. 155—2.)

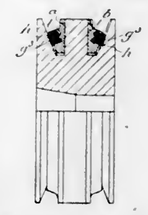


1. In a car seat, the combination with a seat cushion and shiftable supports therefor, of seat shifting mechanism including a rotatable shaft, a shiftable seat-back supporting standard, said standard having a guideway in its lower end and having a pocket located over and intermediate the ends of said guideway, and arms carried by said shaft, said arms having portions disposed to travel in said guideway and having other positions adapted to enter said pockets for interengaging said arms and said standards in such manner that rotation is imparted to said shaft during shifting movement of said standards.

1,335,951. PISTON OR PISTON-VALVE. ROBERT ALLEN, Caversham, England. Filed Nov. 15, 1911. Serial No. 660,562. 11 Claims. (Cl. 74—109.)

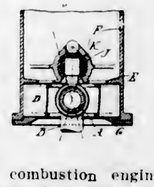
6. The combination with a piston having a peripheral seat therein, of a ring in said seat, said ring being of less axial width than the axial width of said seat, means for holding one radial face of said ring in contact with the adjacent side walls of said seat and for holding its opposite face away from the other side wall of the seat and thus permit the pressure fluid to act against one radial face of the ring and exclude the pressure fluid from the opposite radial face of the ring, the axial area of said ring being less than the radial area thereof, whereby the friction which is produced between the contacting faces of the

ring and seat by the force of the pressure fluid exerted on the radial face of said ring counterbalances the pres-



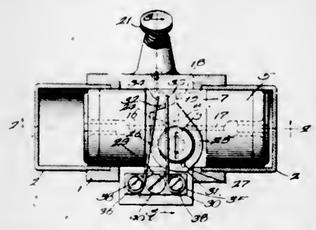
sure of said fluid on the inner axial face of the ring, and means independent of the first said means for exerting an expanding force against the ring.

1,335,952. INTERNAL-COMBUSTION ENGINE. CHARLES HENRY THOMAS ALSTON, Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Filed Mar. 1, 1918. Serial 219,941. 3 Claims. (Cl. 123—45.)



1. In an internal combustion engine in which the piston uncovers ports in the cylinder by both a turning and a reciprocating movement, the combination of a gudgeon pin; bearings for said pin; a piston axially rotatable on said bearings but adapted to reciprocate therewith; a connecting rod on said pin; said rod having an extension beyond the pin; and means to operatively connect the extension to the piston for effecting the turning movement of the latter.

1,335,953. PULSATOR FOR MILKING-MACHINES. HENRY B. BARSON, Chicago, Ill., assignor to Pine Tree Milking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 9, 1918. Serial No. 261,788. 16 Claims. (Cl. 31—101.)



1. A pulsator for milking machines having a cylinder, a piston working therein, means controlled by the piston for varying the pressure on the teat cups, one of said first two elements being provided with air ducts leading to opposite ends of the cylinder for conveying the motive air to and from said ends, and with a suction duct, and a valve seat at which said ducts terminate, a valve on said seat for controlling the flow of motive air to and from said ducts, and means for operating said valve, said valve having air passages for connecting the air ducts alternately with the suction duct and with the atmosphere, a portion of said passages extending along and being sunk in the inner face of the valve for holding it closely to its seat.

4. A pulsator for milking machines having a cylinder, a piston working in said cylinder, means actuated by said piston for varying the pressure on the teat cups, one of said first two elements being provided with a valve seat, a suction duct, and air ducts leading to the opposite ends of the cylinder, each of said ducts having one terminus at said valve seat, and a valve plate adapted to oscillate upon an axis perpendicular to said plate, said plate having a suction groove formed in its inner face concentric with said axis, said suction groove being adapted to connect the suction duct first with one air duct and then with the other, the plate also having exhaust grooves formed in its inner face concentric with said axis for connecting said air ducts with the atmosphere alternately, said grooves being arranged symmetrically, circumferentially, for balancing the effect of the atmospheric pressure on the outer face of the valve.

7. A pulsator for milking machines having a cylinder, a piston, a reversing valve plate, one of said first two elements being provided with a valve seat, a suction duct, and air ducts communicating with the opposite ends of the cylinder, and means for oscillating the valve plate, all of said ducts having one terminus in said valve seat, the reversing plate rotating upon an axis perpendicular to the plate and having grooves in its under face for holding it closely seated, said grooves being centered at the axis, and one of them forming an exhaust groove for connecting the suction duct with the air ducts alternately, the other grooves constituting exhaust grooves, one end of which is open to the atmosphere, and the other end communicates with the disconnected air duct when the suction groove connects the suction duct with the other air duct, the aggregate length of the exhaust grooves being greater than the length of the suction groove.

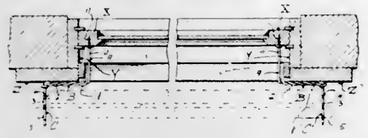
9. A pulsator for milking machines having a cylinder, a piston, a reversing valve plate, one of said first two elements being provided with a valve seat, a suction duct, and air ducts communicating with the opposite ends of the cylinder, and means for oscillating the valve plate, all of said ducts having one terminus in said valve seat, the reversing plate rotating upon an axis perpendicular to the plate, and having grooves in its under face for holding its closely seated, said grooves being centered at the axis and one of them forming an exhaust groove for connecting the suction duct with the air ducts alternately, the other grooves constituting exhaust grooves, one end of which is open to the atmosphere and the other end communicates with the disconnected air duct when the suction groove connects the suction duct with the other air duct, the suction and exhaust grooves being symmetrically located on opposite sides of the axis and the aggregate length of the exhaust grooves being at least 180°, and the reversing valve plate having a circular bearing surface concentric with the axis and of a diameter slightly greater than the outer diameter of said grooves.

15. A pulsator for milking machines having a cylinder, a piston working therein, means controlled by the piston for producing the air pulsations, one of said first two elements being provided with air ducts for controlling the movement of said piston, a reversing valve for controlling the flow of air in said ducts, and means for oscillating said valve, the wearing surface of said valve being annular, with a circular inner and a circular outer periphery.

1,335,954. CURTAIN-POLE AND SHADE SUPPORTING BRACKET. GASTON D. BRUCE, Middlesboro, Ky. Filed Nov. 15, 1919. Serial No. 338,305. 3 Claims. (Cl. 156—24.)

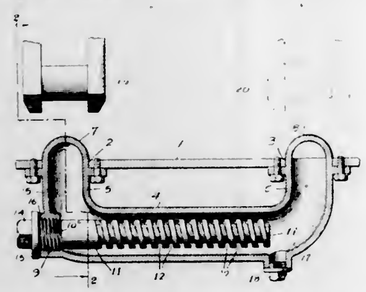
3. As an article of manufacture, a window shade and pole supporting bracket formed of wire bent to provide a screw-threaded shank, then bent laterally, then outwardly, the outwardly bent portion of the wire being formed to provide a pole supporting hook, the wire being then returned along said hook and beneath and parallel to the first named outwardly extending portion and then being bent upward to engage the wire at the beginning of the outwardly extending portion, then extending

laterally and twisted into engagement with the first named laterally extending portion of the wire, and then extending rearward at an angle to the first named portion



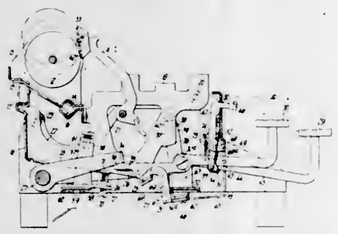
of the wire, and then being upwardly bent to form a sash rail engaging shoulder, the upper extremity of this last named portion being engaged with the first named portion.

1,335,955. MEANS FOR ARRESTING PARTICLES OF METAL IN LUBRICATING-OIL. FRANK J. COX, San Francisco, Calif. Filed July 29, 1918. Serial No. 247,461. 9 Claims. (Cl. 210—10.)



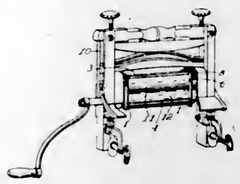
1. The combination with the crank case of an internal combustion motor of a by-pass connected thereto to receive lubricating oil from said crank case; and magnetic means within the by-pass for attracting and retaining the particles of metal from the oil flowing through said by-pass.

1,335,956. TYPEWRITING-MACHINE. WILLIAM A. DOBSON, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 5, 1918. Serial No. 238,284. 6 Claims. (Cl. 197—72.)



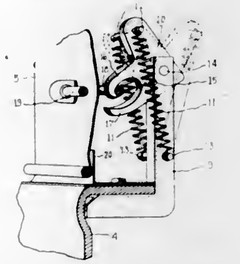
2. In a typewriting machine, the combination with a sheet-metal shift-frame and links on which it is shiftable, of a turned over edge of the sheet-metal, an adjustable stop against which said turned-over edge is adapted to bear, forming a normal rest for the shift-frame, a second adjustable stop adapted to limit the throw of said shift-frame by engaging with said turned-over edge, a second turned over edge, a third adjustable stop adapted to arrest said shift-frame by said second turned-over edge, a spring normally holding said last-named stop effective, a shift-key-lever adapted to shift the shift-frame from the stop against which it normally rests to the last-named stop, and a second shift-key-lever adapted to shift the shift-frame to the second-named stop, said last-named shift-key-lever comprising a member adapted to swing the third stop to ineffective position when swinging the shift-frame.

1,335,957. WRINGER ATTACHMENT. LOUIS F. DOELLINGER, Waterloo, Iowa. Filed July 31, 1919. Serial No. 314,476. 4 Claims. (Cl. 68—32.)



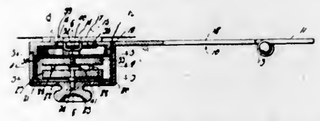
1. A device of the character described, comprising separable coacting hangers adapted to be removably supported upon the upper roll of a pair of wringer-rolls, and having deflector-members respectively extended along the top of the upper roll and along opposite sides of the lower roll.

1,335,958. AUTOMATICALLY-OPERATING HOOD-DOOR-FASTENING DEVICE. WARREN H. FARR, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 10, 1919. Serial No. 303,085. 4 Claims. (Cl. 292—78.)



1. In a hood door fastening device of the class described, a supporting bracket; a pivotally supported oscillating latch member carried by said bracket and having an upper jaw hook-shaped in form at its free outer end, and a lower jaw disposed adjacent and extending beyond the end of said upper jaw; a spring operatively connected with said latch member and acting to yieldably hold the same in each of its two extreme positions; and a loop carried by the inner surface of the door and located below the level of the pivotal connection between said bracket and said oscillating latch member, and which loop is so arranged as to engage the lower of said jaws as the door is closed to thereby swing the latch mechanism into its locking or holding position, in which it is engaged by the hook-shaped end aforesaid of said upper jaw.

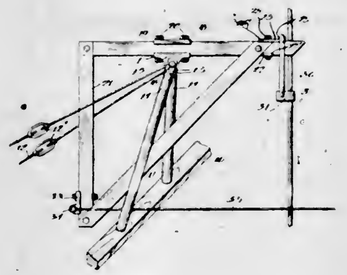
1,335,959. PERMUTATION HASP-LOCK. EARL W. FLAGG, Tenino, Wash. Filed Nov. 1, 1916. Serial No. 128,987. 1 Claim. (Cl. 70—55.)



A lock of the character specified, comprising a leaf mounted to swing and having an opening at its free end to

receive a staple, and having an offstanding boss surrounding the opening, a diaphragm secured on the boss and notched at its edge, a barrel threaded to the boss, a plate closing the outer end of the barrel, tumblers rotatably mounted on the diaphragm and plate and notched in their outer edges, operating means for the tumblers including a knob exterior to the plate, a lock bolt slidable on the leaf in the space formed between it and the said diaphragm and having an enlarged portion in which is formed an opening, said lock bolt having a staple engaging tongue projecting into the opening and a laterally projecting extension to enter the registering notches of the tumblers and diaphragm, and a lug carried by the lock bolt and adapted to engage the boss and barrel to secure the latter when the lock bolt is projected into locked engagement with the staple.

1,335,960. PUMP-JACK. ARTHUR SMITH D. FRENCH, Bixby, Okla. Filed June 3, 1919. Serial No. 301,394. 3 Claims. (Cl. 74—5.)



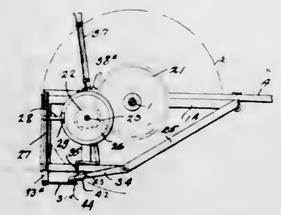
1. A pump jack comprising an adjustable frame including pipe legs open at their upper ends, journals provided with alined openings in their body portions and having integral stud pins projecting into said open ends, a saddle block having a depending lug provided with a bore, said saddle block having the bore of its lug alined with said journal openings, a pivot bolt passing through said journal openings and said saddle block bore and secured therein, a rocker mounted on said saddle block, and means associated with said saddle block for adjustably securing said rocker thereto.

1,335,961. BED. FRANCIS M. GARNER, Beech Grove, Ark. Filed Apr. 2, 1919. Serial No. 286,955. 1 Claim. (Cl. 5—1.)



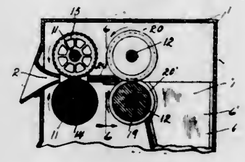
In a bed of the character described, the combination of an insertible substantially rectangular bed including side and end walls, vertically extending straps fixed upon the inner surfaces of said walls and extending the entire height of said walls, each strap having a plurality of outwardly extending looped portions, rings connected to the looped portions, longitudinally extending and transversely extending cables positioned within said bag, said cables having diverging branches secured thereto adjacent their ends, said branches and said cables being connected to said rings, said cables extending within the bag adjacent the center thereof, whereby when a person is resting upon a bed the bag will yield slightly so that the person will not rest upon the taut cables, and said cables and branches reinforcing said side and end walls throughout their height to hold the bag from losing its proper shape.

1,335,962. BEET-TOPPER. MORGAN A. GREENE, Rupert, Idaho. Filed Sept. 17, 1918. Serial No. 254,432. 3 Claims. (Cl. 55—107.)



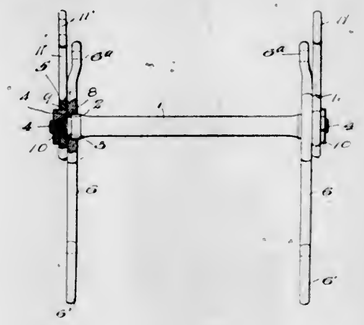
1. In a topping machine, a vertically disposed shaft, an arm projecting horizontally from the shaft, a cutter carried by said arm, and means for imparting a rocking movement to the shaft, the same consisting of a cam wheel, and a roller extension from the shaft coöperating with the cam wheel.

1,335,963. MECHANICAL TICKET-TAKER. WILLIAM J. HARVIE, Auburn, N. Y. Filed Apr. 10, 1919. Serial No. 288,927. 1 Claim. (Cl. 232—8.)



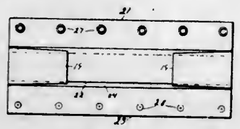
A mechanical ticket taker comprising an inclosing case having a ticket inlet means for feeding the ticket from said inlet into the interior of the case, additional means for dividing the ticket into parts in transit from said inlet, and separate receivers for the different parts.

1,335,964. BRIDLE-BIT. BIRD E. HENSLEY, Salem, Oreg., assigner of one-half to Charles W. Meeker, Salem, Oreg. Filed Apr. 28, 1919. Serial No. 293,106. 3 Claims. (Cl. 54—7.)



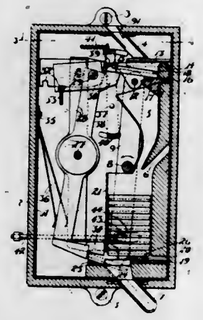
1. The combination with a bit bar having a circular head, a circular boss, and a reduced threaded stud at each end, of a pair of curb levers each having a counterbored hub and oscillatable on the head and boss, means for attaching curb chains to said levers, a bridle support and a lock nut engaging the bridle support at each end of the bar, and said nuts each having a locking lug to seat in an opening in each support.

1,335,965. MATTRESS. FREDRICK HOFFMANN, Louisville, Ky. Filed Sept. 3, 1918. Serial No. 252,444. 2 Claims. (Cl. 5—13.)



1. In a mattress, a ticking comprising top, bottom and side walls, and having a plurality of compartments, a pair of flaps attached to the ends of the top and bottom walls respectively, each pair of flaps consisting of a strip folded longitudinally and stitched by its folded edge to the ticking.

1,335,966. SLUG-LOCK. WILLIAM HARRISON HORSMAN, San Francisco, Calif., assignor of one-fourth to Clinton Bancroft, San Francisco, Calif. Filed June 27, 1918. Serial No. 242,191. 14 Claims. (Cl. 194—4.)



1. In a combination lock a slug box adapted to receive a plurality of slugs, each having a different formation, means for discharging one of said slugs when the lock is locked, means for unlocking the lock by means of the slug discharged, and means actuated by each slug for automatically changing the combination.

1,335,967. COMBINED PHONOGRAPHIC-DISK-RECORD AND TALKING-MACHINE CABINET. EMMETT M. HOWARD, Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 14, 1917. Serial No. 174,668. 2 Claims. (Cl. 45—52.)



1. In a cabinet of the character stated, a lower record containing compartment, an upper talking machine compartment, a base for the latter for the support of a removable table talking machine, the sides of said compartment being formed by upward extensions of the cabinet sides, and the front of said compartment being open and unobstructed by doors, a pair of horizontal alining upper and lower grooves in the inner side walls of said upper compartment, said grooves being adapted to receive the upper and lower moldings of said talking machine and thus position the latter, said talking machine being adapted to be slid laterally into its compartment, and being locked against vertical movement by the interlocking of said moldings and grooves.

1,335,968. CURTAIN-FIXTURE. DANIEL HOYT, East Orange, N. J., assignor to The National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed June 30, 1919. Serial No. 307,723. 4 Claims. (Cl. 156—26.)



4. A device of the character described, comprising a tube, a spring pressed head at the end of the tube, said head extending above and below the tube, friction rollers pivoted within the head at the ends thereof, a centrally disposed roller pivoted within the head and extending therebeyond and adapted to contact the floor of the groove in the window casing, the friction rollers being out of contact with said groove when the fixture is in a horizontal position but adapted to bear when the fixture is tilted, and gravity cams pivoted within said head above and below said central roller and adapted to contact therewith to prevent revolution of said roller in one direction, the lowermost cam always dropping by gravity out of contact with the central roller.

1,335,969. VEHICLE LIFTER OR JACK. MORRIS E. HUGHES, Clare, Iowa. Filed Sept. 18, 1919. Serial No. 324,328. 8 Claims. (Cl. 254—88.)



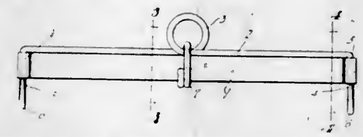
2. In a vehicle lifter, the combination with supporting tracks having their forward portions slightly inclined and having relatively steeper inclined parts immediately to the rear of said forward portions, said relatively steeper inclined parts merging into curved bulges, which in turn merge into the rear ends of the slightly inclined portions, of forward and rear carriages on the tracks, one adjacent to but forward of the bulges, and having bearings to receive the forward axle of the automobile, the other carriage adapted to be positioned at the bottom of the relatively steeper inclined parts and having bearings to receive the rear axle about the time the last mentioned carriage and the rear wheel of the automobile reach a position on the slightly inclined portions of the tracks beyond the bulges, and tiltable elements adapted to be inclined relatively to the steeper inclined parts of the tracks, and on which the forward and rear wheels of the automobile are adapted to ride, whereby the forward and rear axles of the automobile may drop into engagement with the bearings of the carriages.

1,335,970. MATCH-CONTAINER. HANS HUMM, Brooklyn, N. Y. Filed May 31, 1919. Serial No. 300,977. 4 Claims. (Cl. 206—22.)



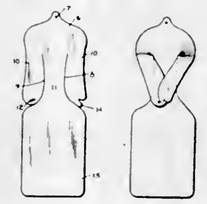
3. A match container comprising a chamber inclosed by a casing, a drum having peripheral slots therein mounted rotatably in the bottom thereof, a tray attached to said casing below and forward of said drum, a curved spring band extending from the forward member of said casing, spring fingers adjacent the ends of said drum to prevent the return of a match into said chamber, and means to tap said drum to throw the match into said tray when said match has cleared said band, said means comprising a spring member provided with a looped end in peripheral contact with said drum and adapted to fall into one of said slots when coincident with the latter in its peripheral movement.

1,335,971. SWINGLETREE. WILLIAM E. JONES, Ellisville, Miss., assignor of one-half to Claud S. Williams, Ellisville, Miss. Filed July 21, 1919. Serial No. 312,189. 1 Claim. (Cl. 21—78.)



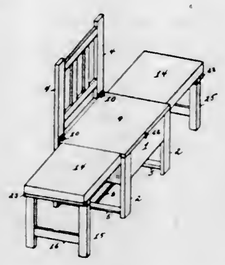
A device of the class described including an elongated body member formed of stock strap-metal, the opposed terminals of the body member being curled to provide integral terminal sleeves, a reinforcing member formed of relatively thick stock rod-metal and extending along one longitudinal edge of the body member, said reinforcing member having an attaching eye formed intermediate its terminals, arms forming a continuation of the reinforcing member and extending perpendicularly from the reinforcing member through the said sleeves, attaching hooks formed at the terminals of the said arms, a loop formed of stock rod-metal and passing through the attaching eye of the reinforcing member and around the intermediate portion of the body member, thereby rigidly securing the reinforcing member to the body member and locking the loop member against movement relative to the reinforcing member and the body member.

1,335,972. PACKING-FORM. ADOLF B. KELLERMAN, New York, N. Y. Filed June 25, 1915. Serial No. 36,188. 1 Claim. (Cl. 211—13.)



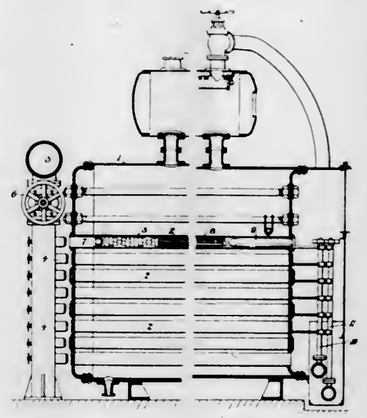
A packing form made of a single piece of flexible material of generally oblong form consisting of a bust piece, a body portion and a skirt piece, the body portion having incisions along its sides to provide side arms, said side arms adapted to be overlapped and interlocked with each other over the body portion thereby shaping the bust piece while the said body portion and skirt piece remain flat.

1,335,973. CHAIR. SAMUEL KESSELMAN, Newark, N. J. Filed Nov. 25, 1919. Serial No. 340,579. 3 Claims. (Cl. 155—41.)



1. A chair comprising a chair frame, having guideways arranged therein and provided with cut-away portions, folding seats adapted to be received by said cut-away portions having hinged cleats provided with studs, said studs designed to engage with the guide-ways in the chair frame to be moved up and down therein and legs hingedly secured to said folding seats.

1,335,974. STEAM-SUPERHEATER. PERCY ST. GEORGE KIRKE, Westminster, London, England. Filed Aug. 7, 1917. Serial No. 184,944. 2 Claims. (Cl. 122—463.)

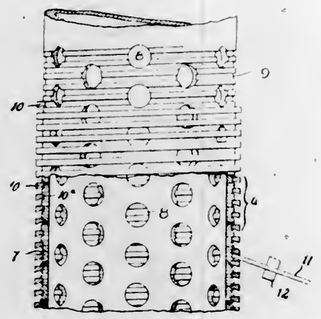


1. A boiler heating and superheating system comprising a boiler, a passage for hot gases within said boiler, said passage having a refractory heating chamber for higher temperatures in communication with a steam superheating chamber, also forming part of said passage, a superheating means within said superheating chamber, and a second refractory chamber within said passage for lower temperatures and in communication with said superheating chamber.

1,335,975. WELL-SCREEN. LLOYD F. LAYNE, Houston, Tex., assignor to Layne & Bowler Company, a Corporation of Texas. Filed Oct. 23, 1916. Serial No. 127,053. 2 Claims. (Cl. 166—8.)

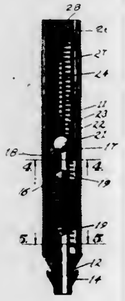
1. As a new article of manufacture a well screen comprising a well tubing provided with a plurality of

apertures therein and having formed in its outer face a square thread, a helix of screening wire seated in the groove between the turns of the said thread, said wire being substantially rectangular in cross-section and having



an angular depression formed in one lateral face thereof to provide a portion adjacent to the base of the wire of less thickness than the base, said wire being held in position by compressing the metal of the thread into said depression.

1,335,976. VALVE FOR INNER-TUBE VALVE-STEMS. VIVIAN A. LEACH, San Francisco, Calif. Filed Oct. 22, 1919. Serial No. 332,847. 4 Claims. (Cl. 152—11.5.)



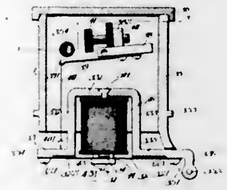
2. A valve for inner tube valve stems comprising a tubular body adapted for engagement with the interior of said stem and having a valve seat on the lower end thereof; a hollow stem within the tubular body and having an exterior valve portion adapted to engage the valve seat on the tubular body and likewise provided with an interior valve seat; means for normally engaging the interior valve seat to prevent a return passage of air through the hollow stem below a predetermined pressure; and means for regulating the pressure at which air may return through the hollow stem.

1,335,977. METHOD OF AND APPARATUS FOR HEAT-TREATING METALLIC ARTICLES. HARRY P. MACDONALD, Montclair, N. J., assignor to The Snead & Co. Iron Works, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 4, 1919. Serial No. 274,922. 6 Claims. (Cl. 148—21.)

1. The herein described process of heat treating metallic articles which consists in heating the article in suitable supporting mechanism; and in quenching the article, in reheating the article before cooling, in quenching the article, and in reheating the article to drawing temperature, *in situ*.

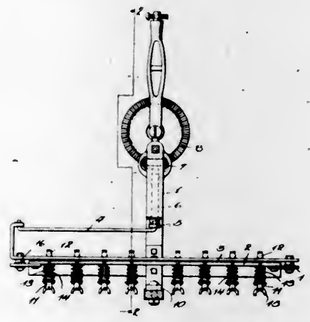


1,335,978. RECORDING-TELEPHONE. JOHN F. MALTHANER, Atlanta, Ga. Original application filed Aug. 3, 1915, Serial No. 43,471. Patented Jan. 7, 1919, No. 1,290,621. Divided and this application filed Dec. 3, 1915. Serial No. 64,895. 14 Claims. (Cl. 179—100.1.)



1. A phonographic recorder comprising a diaphragm of magnetic material, a stylus associated with said diaphragm, an electro-magnet having a soft iron core, one end of said core being in closed magnetic circuit with said diaphragm, the other end of said core being disposed substantially opposite the center of said diaphragm and separated therefrom by a narrow air gap and adapted to vibrate the diaphragm and stylus when the electromagnet is energized.

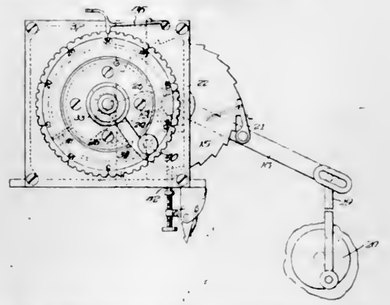
1,335,979. VALVE-GRINDER. LABE MERRITT, Creedmore, N. C. Filed Nov. 1, 1919. Serial No. 334,908. 5 Claims. (Cl. 51—4.)



1. In a valve grinder, a frame, a valve driver mounted in the frame to receive both a rotary and a longitudinal

movement, an operating member, and a pin slidably and detachably connecting the valve driver with the operating member.

1,335,980. MEASURING DEVICE FOR FENCE-MACHINES. ANSON C. MILLS, Jackson, Mich., assignor to Jackson Fence Company, Jackson, Mich., a Corporation of Michigan. Filed Jan. 11, 1917. Serial No. 141,904. 5 Claims. (Cl. 74—46.)



3. In a measuring device for fence machines, the combination of an adjustable stop member having graduations, means for locking the stop member at a desired point, a stop on said stop member, a measuring member frictionally connected to the fence machine, said measuring member being provided with a limiting stop adapted to engage with the stop on said stop member at the beginning of its measuring movement, and machine-interrupting means connected to said measuring device and operable at the completion of the predetermined travel thereof, substantially as described.

1,335,981. DEVICE FOR THE PREVENTION AND TREATMENT OF DEFORMED FEET. DUDLEY J. MORTON, Wynnewood, Pa. Filed Mar. 2, 1915. Serial No. 11,453. 9 Claims. (Cl. 36—71.)



1. A device of the character described comprising means providing pressure against the inner side of the region of the astragalo-scaphoid joint, and means providing counter pressure on the outer side approximate the extremities of the foot.

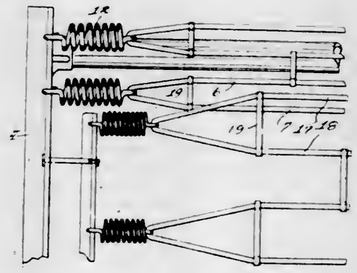
1,335,982. PROCESS FOR PRODUCING AN ALLOY OF ZIRCONIUM AND LEAD. NAPOLEON PETINOT, New York, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,323. 6 Claims. (Cl. 75—1.)

1. The process of producing an alloy of zirconium and lead comprising the melting of lead in a furnace so that it forms a molten bath, then melting together a mixture of zirconium oxid and burnt lime in such proportions that a calcium zirconate ($CaZrO_3$) is formed, then adding to the mixture sufficient carbon to reduce zirconium oxid to zirconium and to form calcium carbid, then charging the mixture into the lead bath whereby the metallic zirconium is absorbed by the lead bath.

1,335,983. PROCESS FOR PRODUCING ALLOYS CONTAINING ZIRCONIUM CARBID. NAPOLEON PETINOT, New York, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,326. 7 Claims. (Cl. 75—1.)

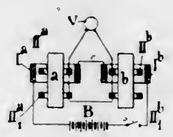
1. A process of making iron alloys containing zirconium carbid or a double carbid of iron and zirconium which consists in smelting a mixture of zirconium ore, iron and carbon and then rapidly cooling the molten metal.

1,335,984. BED-SPRING FABRIC. CLARENCE W. PIPER, St. Paul, Minn., assignor to Adolph C. Wilcken, St. Paul, Minn. Filed Apr. 6, 1917. Serial No. 160,214. 1 Claim. (Cl. 5—39.)



A bed bottom comprising a fabric having a border on each side thereof formed of wire strands which are spaced apart, a side edge of said fabric overlying the adjacent portion of said border to prevent bed clothes working under the border.

1,335,985. APPARATUS FOR TESTING IRONS. ALBERTO POZZO and GUSTAVO COLONNETTI, Turin, Italy. Filed Aug. 17, 1917. Serial No. 186,736. 4 Claims. (Cl. 175—183.)



1. An apparatus for testing irons by comparing the magnetic properties of the test piece with those of a standard piece, comprising, two equal windings, each having an air gap in which the test piece and the standard, respectively, may be freely located; means for generating by said windings two magnetic fields of the same intensity; two secondary windings adapted to be energized, respectively, by the test piece and the standard; and an indicating apparatus to which said two secondary windings are connected in opposition.

1,335,986. PROCESS OF PRODUCING REFINED HOG-CHOLERA SERUM. JOHN REICHEL, Philadelphia, Pa., assignor to H. K. Mulford Company, Philadelphia, Pa. Filed Apr. 3, 1914. Serial No. 829,176. 20 Claims. (Cl. 167—10.)

1. The process of eliminating from hog cholera "antitoxin," the serum albumins, cellular debris, fibrin, or living or dead germs, by precipitation with chemical precipitants other than those forming insoluble hydroxids and filtration and preserving only the active substances, whereby the hog cholera immune bodies and the globulins are obtained having the characteristics of increasing the resistance of the hog against infection from hog cholera

virus or the cause of hog cholera, and adapted to be used either alone or in connection with hog cholera virus or the cause of hog cholera to prevent the disease known as hog cholera in healthy hogs or to cure hogs sick of hog cholera.

2. The process of eliminating from hog cholera "antitoxin" all living or dead germs, cellular debris, fibrin, or serum albumin by treating the hog cholera antitoxin or serum with chemical precipitants other than those forming insoluble hydroxids and preserving only the active substances, whereby the hog cholera immune bodies and the globulins are obtained having the characteristics of increasing the resistance of the hog against infection from hog cholera virus or the cause of hog cholera, and adapted to be used either alone or in connection with hog cholera virus or the cause of hog cholera to prevent the disease known as hog cholera in healthy hogs or to cure hogs sick of hog cholera.

3. In the process of producing hog cholera globulin from hog cholera "antitoxin," defibrinated blood or serum, the step which consists, in treating it with ammonia sulfate, so that the resulting mixture contains approximately thirty-three and a third per cent. of the chemical and filtering the mixture.

4. In the process of producing hog cholera globulin from hog cholera "antitoxin," defibrinated blood or serum, the steps which consist, in treating it with ammonia sulfate, so that the resulting mixture contains approximately thirty-three and one-third per cent. of the chemical, obtaining a filtrate from the mixture, treating the filtrate with ammonia sulfate, so that the resulting mixture contains substantially a fifty per cent. solution of the chemical, and filtering the precipitate.

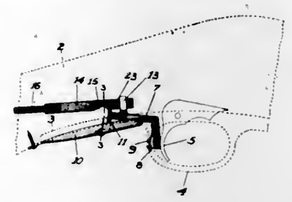
5. The process of producing hog cholera globulin from hog cholera "antitoxin," defibrinated blood or serum, the steps which consist, in treating it with ammonia sulfate, so that the resulting mixture contains approximately thirty-three and a third per cent. of the chemical, obtaining a filtrate from the mixture, treating the filtrate with ammonia sulfate, so that the resulting mixture contains substantially a fifty per cent. solution of the chemical, and filtering the precipitate, and partially or entirely removing from the precipitate the chemicals used in the said steps.

1,335,987. DENTAL INSTRUMENT. JAMES ERNEST REID, Moorestown, N. J., and CHARLES KIENLE, Philadelphia, Pa.; said Kienle assignor to said Reid. Filed May 27, 1919. Serial No. 300,188. 7 Claims. (Cl. 219—22.)



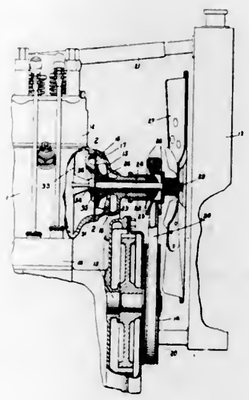
5. In a dental instrument the combination of a tubular hand-piece provided with a slot, a conductor provided with spaced blocks having confronting circuit contacts and heater contacts, a traveler having a bridge and movable on the conductor between the confronting contacts, a ring on the hand-piece, and a detachable connection arranged in the slot and connecting the ring and traveler, the conductor and traveler and blocks and their accessories being removable as a unitary structure.

1,335,988. SAFETY DEVICE FOR FIREARMS. BENJAMIN F. SCHMIDT, Exeter, Calif. Filed June 16, 1919. Serial No. 304,380. 2 Claims. (Cl. 42—70.)



1. A safety device for firearms comprising a bar slidably mounted in the guard-plate of the firearm and having an arm thereon adapted to impinge against the finger portion of the trigger, a stop plate positioned across the rear end of the bar and provided with an orifice for the passage of the bar therethrough but normally positioned below the plane thereof, a spring grip-plate connected to the trigger-guard plate on the under side of the same and adapted for limited vertical movement, the stop plate being mounted thereon, means whereby the gripping plate is normally held against upward movement, and means whereby the same may be released, such latter means being automatically operable from the butt-plate of the firearm when the same is held in operative position against the shoulder, and pressure exerted thereagainst.

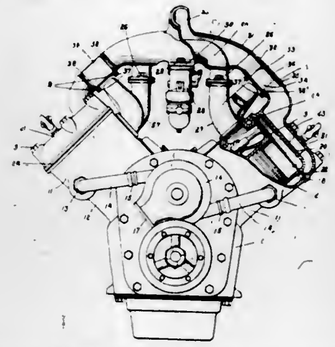
1,335,989. MOTOR-VEHICLE. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 6, 1917. Serial No. 160,133. 5 Claims. (Cl. 123—171.)



1. In an internal combustion engine, the combination with a cylinder jacket having an opening therein, of a pump casing secured to said jacket, a shaft rotatable in a bearing in said casing, a pump impeller mounted upon said shaft and adjacent said opening, and a baffle arcuate in form and concentric with the axis of said shaft, and arranged intermediate said impeller and the adjacent cylinder wall.

1,335,990. HYDROCARBON-MOTOR. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed May 28, 1917. Serial No. 171,495. 14 Claims. (Cl. 123—55.)

1. In an internal combustion engine, the combination with a cylinder having a gas intake opening and a detachable head having a water outlet opening, of a combination gas and water conduit having rigid connection



with one of said openings and a flexible connection with the other of said openings.

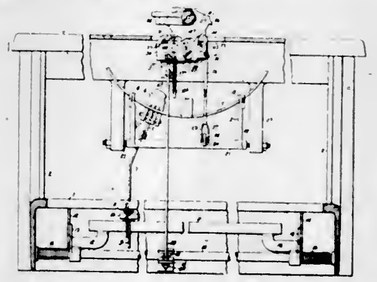
1,335,991. ALLOY OF IRON, ZIRCONIUM, AND TITANIUM AND PROCESS FOR THE PRODUCTION THEREOF. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,327. 5 Claims. (Cl. 75—1.)

1. A method for the production of alloys of iron, zirconium and titanium comprising the mixture of baddeleyite ore, rutile ore, scrap iron and carbon in sufficient quantity not only to reduce the zirconium and titanium oxids present in the ores but enough to combine with the zirconium, titanium and iron to form a complex carbid in the finished alloy and then smelting this mixture in an electric furnace.

1,335,992. PROCESS FOR PRODUCING ZIRCONIUM STEEL. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,330. 3 Claims. (Cl. 75—1.)

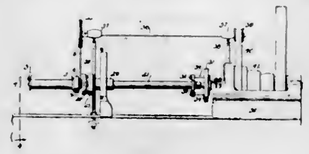
1. An improved process of making zirconium steel which consists in adding to molten steel an alloy of iron, zirconium, titanium and carbon.

1,335,993. TYPEWRITING-MACHINE. ARTHUR W. SMITH, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed July 11, 1918. Serial No. 244,364. 24 Claims. (Cl. 197—85.)



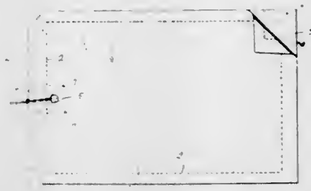
1. In escapement mechanism for writing machines, the combination of a carriage, a rack, a dog carrier mounted to reciprocate in the general plane of movement of said rack, and a pair of dogs mounted on said carrier in the general plane of said rack, one of said dogs being adapted to yield to the rack teeth both during advance and return movements of said rack, and the other of said dogs being adapted to yield to said rack teeth in one direction only.

1,335,994. CYLINDER-GRINDING ATTACHMENT FOR LATHES. WILLIAM T. SNELL, El Paso, Tex. Filed Jan. 31, 1919. Serial No. 274,250. 3 Claims. (Cl. 51—4.)



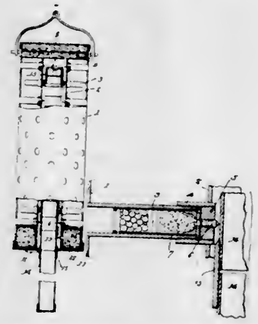
1. A cylinder grinder comprising a hollow shaft, a sleeve journaled thereon and carrying a grinding wheel at one end, a head at the said end to which the wheel is secured, a pin in the hollow shaft and extending beyond the said shaft at the head and freely movable longitudinally of the shaft, a collar on the pin forming one section of a ball race, the other section being secured to the sleeve, a ball bearing in the race, and a spring between the sleeve and the inner end of the shaft.

1,335,995. IDENTIFICATION-TAG. GEORGE T. SPAULDING, Cambridge, N. Y. Filed July 26, 1919. Serial No. 313,587. 4 Claims. (Cl. 40—27.)



2. A tag of the character described comprising superimposed laminations adhesively secured together, said tag being provided with a string opening, and a reinforcing member interposed between said laminations and including a plate having diverging arms arranged at the opposite side of the string opening, said plate being provided with oppositely directed prongs penetrating the laminations.

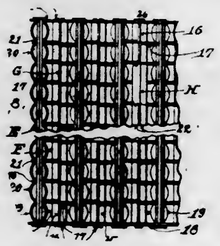
1,335,996. BOMB. WILLIAM O. SPENCER, Shreveport, La., assignor of one-half to Edward E. George, Shreveport, La. Filed Apr. 26, 1918. Serial No. 230,962. 2 Claims. (Cl. 102—2.)



1. A projectile comprising a tubular body, a segmental tube centrally located within said body, threaded col-

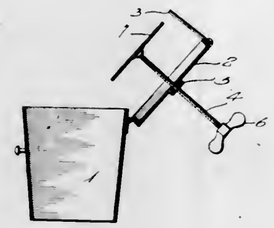
lars connecting the segments of the tube, said collars presenting camming surfaces, radially disposed barrels, a support for said barrels, firing shells supported by the barrels, a plug supported adjacent each shell, a firing pin mounted in each plug, said firing pins adapted to be engaged by the camming surfaces of the collars, a compartment at the upper end of the body and a compartment at the lower end of the body, explosive in said compartments, and means operated by the collars for firing the explosive material within the upper and lower compartments.

1,335,997. RADIATOR FOR MOTOR-VEHICLES. PHILMORE F. SPERY, Chicago, Ill. Filed May 15, 1918. Serial No. 234,649. 2 Claims. (Cl. 257—130.)



1. A radiator of the nature described, comprising, in combination, a casing, a series of spaced apart vertical water tubes in said casing, and cooling elements between adjacent water tubes, said cooling elements consisting each of a strip of metal, said strip having a series of associated pairs of notches in one of its longitudinal margins, the distance between the notches comprising the pair of associated notches being less than the distance between the pairs of notches, said strip being bent back and forth through said notches to afford spaced apart cross bars, and bent and rebent at right angles between associated pairs of notches to afford vertical bars, the ends of said cross bars being reduced in width by said notches to afford contact with the walls of said water tubes, the wider part of said cross bars fitting between and engaging the vertical margins of the water tubes.

1,335,998. GRIDDLE-GREASER. ALEXANDER ST. ONGE, Sheffield, Mass., assignor of one-half to Mary Isabelle Thomson, Sheffield, Mass. Filed Apr. 24, 1919. Serial No. 292,383. 1 Claim. (Cl. 65—12.)



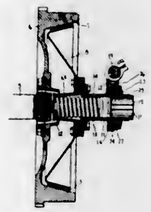
A griddle greaser comprising a rectangular body having its lower end open, a handle attached to the body, a lid hingedly connected to the body at its upper end, catch means for holding the lid in closed position, a pressure plunger mounted upon said lid and having a threaded stem having threaded connection with said lid, a finger piece at one end and a presser plate swiveled at its other end, the body aforesaid tapering toward its lower open end and thereby tending to resist discharge of the contents by the plunger, and detachable closure means for the lower end of the body constituting a protective cover for the surface of the contents when not in use.

1,335,999. SASH-HINGE. CHARLEY STOVER, Coats, Kans. Filed Dec. 8, 1917. Serial No. 206,220. 2 Claims. (Cl. 16—49.)



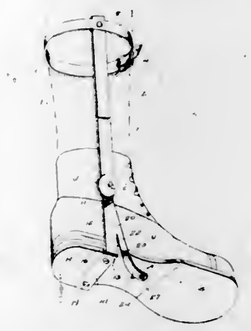
1. In a device of the class described, the combination with a window frame, a sash located within the frame, plates carried by the sash, laterally projecting flat lugs carried by the plates, supporting plates carried by the opposite sides of the frame, said plates having L-shaped slots formed therein for receiving said lugs, as and for the purpose specified.

1,336,000. CLUTCH-RELEASING MECHANISM FOR AUTOMOBILES. ALFRED T. STURT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 4, 1919. Serial No. 301,707. 7 Claims. (Cl. 192—1.)



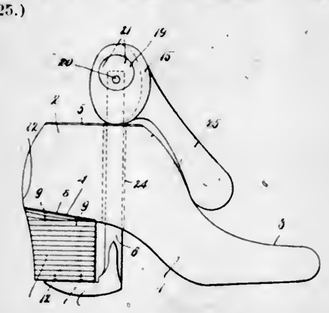
6. In clutch operating mechanism of the class described, a rotatable and axially movable member operatively connected with a clutch member to move the same; an annular clutch operating collar surrounding said rotatable member; an abutment carried by said rotatable member; a renewable wearing member made of wood treated with a lubricating material carried by said clutch operating collar; and operating means whereby said collar may be moved toward said abutment to thereby move said rotatable member along its axis.

1,336,001. ANKLE-BRACE AND ARCH-SUPPORT. FRED TRANMER, Gordon, Nebr., assignor of one-half to William Adelbert Hills, Gordon, Nebr. Filed June 6, 1919. Serial No. 302,361. 5 Claims. (Cl. 128—80.)



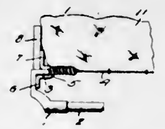
1. An arch support comprising a forked member, one branch thereof being adapted to be secured to a shoe so as to stand upright at the inside of the heel with its lower end contacting with the ground, and the other branch extending from the first branch under and adapted to be secured to the lower face of the arch.

1,336,002. CLAMP FOR USE IN TRIMMING BOOT AND SHOE HEELS. LYMAN A. TRULL, Brockton, Mass., assignor of one-half to Oscar Heath, Brockton, Mass. Filed Dec. 2, 1918. Serial No. 264,937. 1 Claim. (Cl. 12—125.)



A heel clamping apparatus of the kind described, comprising a form substantially in the contour of a shoe last, a heel plate thereon adapted to detachably receive and hold a heel blank, a movable plate to engage and hold the top lift of a heel blank, a rod secured to the movable plate and extending through a recess in the form and a cam to reciprocate said rod, having a pair of arms spanning said rod and an eccentric mounting for the rod in each arm, together with a handle to operate said cam.

1,336,003. MATTRESS-HOLDER. CHESTER A. VAN DEMARK, Kingston, N. Y. Filed Sept. 25, 1919. Serial No. 326,356. 1 Claim. (Cl. 5—41.)



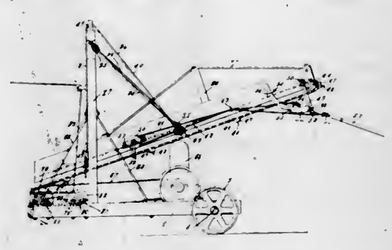
In combination with the angle iron mattress frame of a bed, of a bracket comprising a flat securing end from which extends at a right angle a U-shaped spring-member arranged to be clasped over the horizontal portion of said angle iron frame member, a holding end being continued from said spring member in a direction opposite to said securing end and a panel held to said holding end the lower edge of said panel resting on said angle iron frame, all as and for the purpose set forth.

1,336,004. BUILDING-STAKE. HENRY J. VICTORIA, Hull, Iowa. Filed Aug. 11, 1919. Serial No. 316,709. 4 Claims. (Cl. 33—85.)



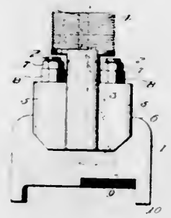
1. The combination with a stake adapted to be anchored in the ground, of a sleeve adjustably mounted on the stake, of a pair of arms pivotally mounted upon the sleeve substantially at right angles to each other and provided with adjustable slides to which line wires may be connected, and pivoted braces carried by the sleeve, provided with adjustable connections with the arms, whereby the arms may be adjustable pivotally in a vertical direction.

1,336,005. WHEAT-STACKER. HARRY F. VON ENGELN, Ludell, Kans. Filed June 1, 1918. Serial No. 237,741. 2 Claims. (Cl. 214—46.)



1. In a device of the class described, a support; a main conveyer frame pivoted at one end to the support for vertical swinging adjustment; a main conveyer traversing the main conveyer frame; mechanism for driving the main conveyer; a header box spaced from the main conveyer frame; a sling attached at one end to the box; mechanism for operating the sling to cause the same to discharge its load; means for coupling said mechanisms together at the will of an operator; and an auxiliary conveyer operating on the support in a fixed relation to the horizontal, the auxiliary conveyer receiving material from the sling and distributing the material on the main conveyer in the various adjusted positions of the latter.

1,336,006. DRILL. FRED RICHARD WEATHERSBY, Houston, Tex. Filed May 22, 1919. Serial No. 298,892. 1 Claim. (Cl. 287—24.)

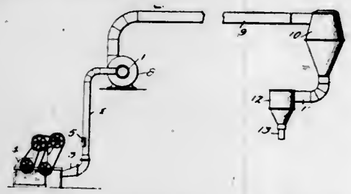


In combination, a shank having ears formed on the opposite sides thereof, the ears being provided with smooth openings extending entirely therethrough with their axes parallel with the axis of the shank, said shank having its outer face provided with a transverse slot extending through the ears, a bit seated within said slot and having spaced parallel threaded stems formed integrally thereon, the stems passing through and beyond the openings in the ears, and nuts threaded onto said stems and engaging the ears whereby to secure the bit within the slot.

1,336,007. DUST AND LINT COLLECTING SYSTEM. SAMUEL JAMES BAWMAN WHITED, Shreveport, La. Filed July 13, 1917. Serial No. 180,335. 2 Claims. (Cl. 13—17.)

1. In a dust and lint collecting system, a plurality of linters, a main suction pipe, an individual branch pipe for each linter connecting the same with said main section pipe, a discharge pipe leading from said suction pipe, a

dust collector at the end of said discharge pipe, a lint collector communicating with said dust collector and adapt-



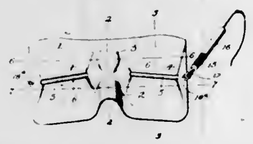
ed to receive lint from the latter, and means in each of the branch pipes for regulating the amount of air drawn in through said branch pipes.

1,336,008. MOTOR-VEHICLE. FRANK A. WHITTEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 31, 1918. Serial No. 237,431. 9 Claims. (Cl. 180—70.)



1. In a motor vehicle and in combination with a frame having longitudinally extending side members, a transmission gearing casing having a trunnion formed integrally therewith and located at one end of its ends; a rotatable shaft extending through said trunnion and along the axis thereof; a cross bar extending between and the ends of which are supported by said side members; means for securing the end of said casing opposite said trunnion of said cross bar; a second cross bar circular in cross section and extending between and the ends of which are supported by said side members; and a hanger slidable along and rotatable about the axis of said last mentioned cross bar, and which hanger is provided with a bearing adapted to receive said trunnion and within which said trunnion is capable of both oscillatory and longitudinal movement.

1,336,009. EYE-SHIELD. WILLIAM H. WILMER, Washington, D. C. Filed Dec. 26, 1917. Serial No. 208,816. 11 Claims. (Cl. 2—149.)



1. A metallic eye-shield comprising a plate fashioned to bear flatwise against the forehead and cheeks of the wearer, and provided with a bridge to rest upon the nose and with bulging eye-covering portions at opposite sides of said bridge, said eye-covering portions being provided with narrow slits having transparent closures.

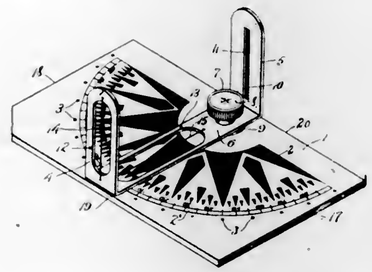
2. An eye-shield comprising a metal plate fashioned to rest flatwise against the forehead and cheeks of the wearer entirely about the eyes, and bowed at its midlength to form a bridge for the nose, said plate being provided on opposite sides of said bridge with narrow slits extending in a substantially horizontal direction.

3. An eye-shield comprising a metallic plate fashioned to fit flatwise against the forehead and cheeks of the wearer, having at its midlength an arching portion to bridge the nose, and on opposite sides of said bridging portion, dome-like elevations integral with the plate, and provided with narrow substantially horizontal slits, the edges of which are turned sharply outward, substantially as set forth.

4. An eye-shield comprising a plate to rest against the forehead and cheeks of the wearer, said plate having a nose bridge to rest directly upon the nose; an outward bulge or protuberance immediately above said bridge; and eye-covering domes at opposite sides of the bridge, provided with narrow slits or sight openings.

5. An eye-shield of the character described, formed of two metallic plates fashioned to rest flatwise against the face of the wearer, meeting near the midlength of the structure and flexibly united one to the other, whereby the plates are enabled better to adapt themselves to the face of the wearer, each of said plates fashioned to form a dome-like bulge or enlargement, and each of said domes being provided with a narrow slit extending horizontally or in the direction of the major axis of the dome.

1,336,010. BEARING-FINDER. WALTER WINGATE, Victoria, Canada. Filed May 23, 1919. Serial No. 299,140. 6 Claims. (Cl. 33—72.)



1. In a nautical instrument, the combination of a bearing plate having parallel straight edges and a semi-circular scale thereon, said scale having a zero line at right angles to the diameter thereof and parallel to said straight edges, a sight having two sight vanes, a set screw pivotally securing the sight to said plate, and a circular level in the line of vision between said sight vanes.

1,336,011. BARREL. WILLIAM W. WOOD, Tacoma, Wash. Filed Apr. 28, 1919. Serial No. 293,498. 2 Claims. (Cl. 217—1.)

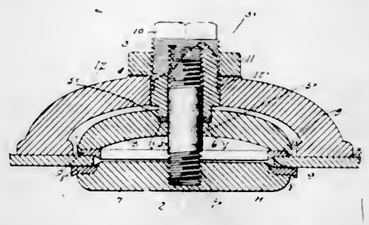


1. A container comprising two cylindrical members arranged to fit one within the other, the end of the inner member terminating short of the end of the outer member whereby a shoulder is formed, a head adapted to rest on said shoulder, and a metallic head retaining member interposed between said two cylindrical members and provided with a plurality of lugs that are flush with the end of said outer cylindrical member and a plurality of other lugs arranged to clench over said head.

1,336,012. HANDHOLE-PLATE. JAMES A. WOODS, Wichita, Kans. Filed Dec. 23, 1919. Serial No. 346,923. 3 Claims. (Cl. 220—25.)

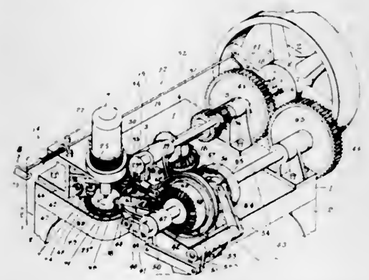
1. A composite plate for closing handholes in boilers and the like including an inner press plate, an outer spider,

an intermediate press plate and a threaded bolt freely passed through said intermediate plate to engage said inner plate and a cap passable through said spider, said cap being arranged to receive and engage the outer screw end of



said bolt; and three packing rings arranged respectively in contacting relationship with the outer rim portion of each of said press plates and the base of said cap within a recessed packing chamber surrounding said bolt substantially as specified.

1,336,013. METHOD OF LINING CAN ENDS. NICHOLAS A. ACKER, Oakland, Calif., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 30, 1917. Serial No. 158,702. 6 Claims. (Cl. 113—80.)



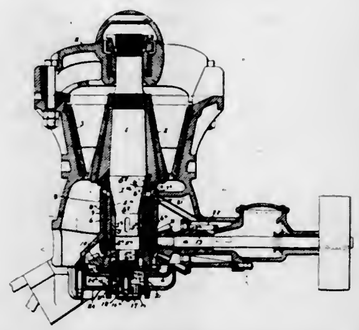
1. The method of preparing flanged can ends for hermetic sealing to can bodies, which comprises placing within the flange of a positioned can end a strip of fibrous liner material with the ends of the strip overlapping, and uniting said overlapping ends after the liner has been deposited onto the flange of the can end to form a continuous gasket liner.

1,336,014. GRINDING APPARATUS SPECIALLY APPLICABLE FOR GRINDING THE INTERIOR OF THE A-TUBES OF GUNS. JOHN WILLIAM BARNES, Rock Ferry, Birkenhead, England. Filed Oct. 1, 1918. Serial No. 256,424. 1 Claim. (Cl. 51—4.)



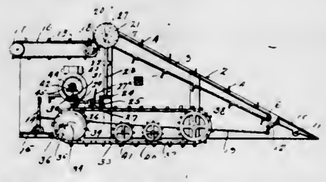
Apparatus for grinding the interior of tubes, comprising, a driving spindle, a tube inclosing the spindle, bearings in the tube supporting the spindle, a grinding wheel on one end of the spindle, and a bearing for the grinding wheel end of the spindle consisting of a two-part socket separately screwing into and adjustable in the inclosing tube, the said socket pieces having coned recesses to receive a shouldered bearing piece within which the spindle rotates, intermeshing members on the socket parts, relative angular displacement of the socket parts causing relative axial displacement of such parts when subsequently screwed into the tube, to compensate for wear.

1,336,015. GYRATORY CRUSHER. RICHARD BERNHARD, Allentown, Pa., assignor to The Traylor Engineering & M'f'g Co., Allentown, Pa., a Corporation of Delaware. Filed May 2, 1919. Serial No. 294,254. 21 Claims. (Cl. 83—10.)



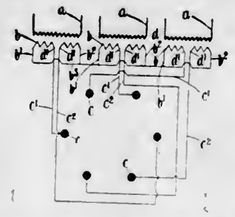
1. In a gyratory crusher the combination with the crusher frame and gyratory crusher shaft carrying a crushing cone, of an eccentric journaled in the frame and encircling the shaft below said cone, said cone having an annular recess in its lower end adjacent the shaft into which the upper end of the eccentric extends.

1,336,016. SNOWPLOW. MASON G. BERRIDGE, Dryden, Mich. Filed Apr. 10, 1919. Serial No. 288,979. 2 Claims. (Cl. 37—62.)



1. In a snow plow a supporting structure, an inclosing casing inclined downwardly at its front end, an endless elevator mounted on said front end between the side walls of the casing and parallel with the tops of said walls, with a pivoted point in longitudinal alinement with the elevator and in advance thereof, a conveyer arranged in the rear of said elevator in a plane below its upper end; a caterpillar drive, a connection between said drive and said elevator and conveyer for operating the latter, and means for disconnecting the drive to permit the operation thereof without affecting the elevator or conveyer.

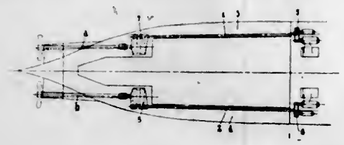
1,336,017. ELECTRIC BLAST-FURNACE. JAMES BIBBY and JENS O. BOVING, London, England, assignors to Electro-Metals Limited, London, England. Filed Jan. 16, 1919. Serial No. 271,348. 5 Claims. (Cl. 204—64.)



1. In an electric resistance blast furnace, the combination with a plurality of symmetrically arranged elec-

trodes, of a source of polyphase currents connected to the electrodes, and means whereby a constant tension is maintained not only between any pair of diametrically opposite electrodes but also between any other pair of electrodes.

1,336,018. SHIP-PROPULSION INSTALLATION. DAVID CHRISTOPHER BLACK, Newcastle-upon-Tyne, England, assignor to The Parsons Marine Steam Turbine Company Limited, Wallsend, England. Original application filed Jan. 19, 1918, Serial No. 212,746. Divided and this application filed Nov. 21, 1919. Serial No. 339,664. 2 Claims. (Cl. 114—73.)



1. In marine propeller installations a plurality of propeller shafts, driving means in an engine room, shafts intermediate the driving means and the propeller shafts and extending along the hull of the vessel aft of the engine room, each of said intermediate shafts being disposed axially out of line with the propeller shaft it is to drive, tunnel means in which said shafts are located and gearing between each aft end of the intermediate shaft and its propeller shaft, said gearing being spaced from the engine room aft the hold, said intermediate shafts being displaced toward the side of the ship from the propeller shafts, providing greater unbroken hold space.

1,336,019. SHIP-PROPULSION INSTALLATION. DAVID CHRISTOPHER BLACK, Alloa, Scotland, assignor to The Parsons Marine Steam Turbine Company Limited, Wallsend, England. Filed Jan. 19, 1918, Serial No. 212,746. Renewed Dec. 31, 1919. Serial No. 348,544. 5 Claims. (Cl. 114—73.)



1. In marine propulsion installations, a plurality of propeller shafts, driving means located in an engine room, shafts intermediate the driving means and the propeller shafts, and extending along the hull of the vessel aft of the engine room, each of the said intermediate shafts being displaced axially out of line with the propeller shaft it is to drive, tunnel means in which said shafts are located, and gearing between each aft end of the intermediate shafts and its propeller shaft, said gearing being spaced from the engine room and aft the hold, said displaced intermediate shafts providing greater unbroken hold space.

1,336,020. SHIP-PROPULSION INSTALLATION. DAVID CHRISTOPHER BLACK, Alloa, Scotland, assignor to The Parsons Marine Steam Turbine Company Limited, Wallsend, Northumberland, England. Filed Jan. 28, 1918, Serial No. 214,166. Renewed Dec. 31, 1919. Serial No. 348,545. 1 Claim. (Cl. 114—73.)



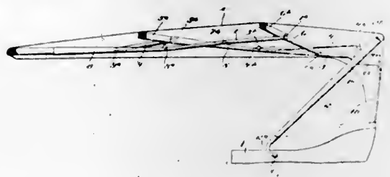
In a marine propulsion installation, the combination of a propeller with its shaft, an engine, a shaft intermediate the engine and the propeller shaft, axially displaced in relation to the propeller shaft, reduction gearing between the intermediate shaft and the engine, and gearing between the rear end of the intermediate shaft and the forward end of the propeller shaft and located as far aft as possible, whereby said intermediate shaft and gearing are located out of the way to save hold space, substantially as described.

1,336,021. ELECTRIC HEATER. EDMUND N. BROWN, San Francisco, Calif. Filed Oct. 1, 1919. Serial No. 327,763. 10 Claims. (Cl. 219—34.)



1. In a radiant heater an electrical resistance adapted to radiate heat mounted between a relatively large and a relatively small radiant heat reflector, in combination with the said two reflectors, the larger of said reflectors adapted to receive the heat emanating from the resistance and from the smaller reflector, and to reflect the said heat in a beam concentric about the periphery of the smaller reflector, and electrical circuit connections to the said resistance.

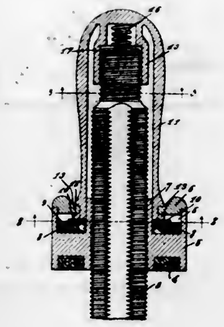
1,336,022. FOLDING TOP. MAX BUCH, Detroit, Mich., assignor to Henry E. Edwards, Jackson, Mich. Filed Mar. 24, 1919. Serial No. 284,734. 8 Claims. (Cl. 296—116.)



6. The combination with a vehicle body, of a main rearwardly inclined bow arm pivotally connected therewith, an extension bow arm, a pair of links pivotally connected at their rear ends to said main bow arm, one above the other and at their forward ends to said extension bow arm, one in advance of the other, one of said links having an extension in rear of its point of pivotal connection to the main bow arm, a flexible element connecting said extension with the vehicle body, an intermediate bow arm pivotally connected with one of said links, a member fulcrumed on said extension bow arm, and having its rear end pivotally connected with said intermediate bow arm, an outrigger bow arm pivotally connected to the other end of said member and a link connecting the outrigger bow arm with said extension bow arm.

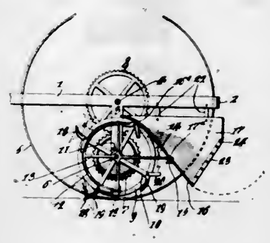
1,336,023. COMBINED VALVE-CAP AND DUST-CAP. ALBERT BAXTER CATTERALL, Ottumwa, Iowa. Filed May 26, 1919. Serial No. 299,874. 3 Claims. (Cl. 152—12.)

1. A device of the class described comprising a nut provided in its upper face with a recessed channel, an annular member secured within said channel and provided with oppositely disposed slots, a pair of oppositely disposed spring members secured by one end to said annular member upon opposite sides of said slots, and a threadless



cap having its lower end equipped with a pair of oppositely disposed lugs for passage through said slots to be engaged between said spring members and said annular member.

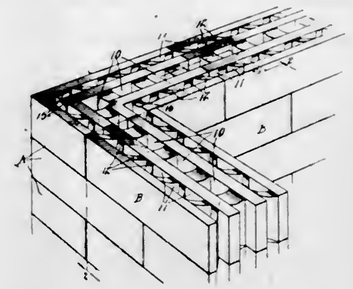
1,336,024. BEET-GATHERING MACHINE. JAMES ARTHUR CAYWOOD, Nederland, Colo., assignor of one-fourth to Edward N. Sebern and one-fourth to Edward R. Mulvihill, Nederland, Colo. Filed Dec. 5, 1918. Serial No. 265,426. 4 Claims. (Cl. 55—59.)



1. In a beet pulling machine, a main frame, an axle rotatably mounted therein, ground wheels secured on said axle, a rotatable shaft, supporting frames mounted on said shaft for rotation therewith, said frames being disposed in pairs, pulling members carried by the supporting frames and being arranged in pairs for engaging and lifting beets when the frames are rotated, and tripping cams positioned to engage the pulling members when the supporting frames therefor are rotated so as to move the said members into operative position at a predetermined point in their rotary travel, and maintain them in this position during their travel through a predetermined distance, said supporting frames and the tripping cams being adjustable longitudinally of the shaft so as to vary the distance apart of said pulling members to accommodate beets of different sizes.

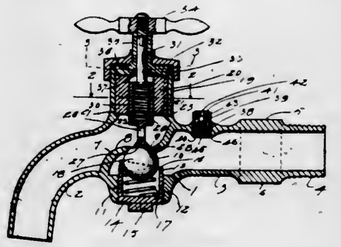
1,336,025. BUILDING-BLOCK. WILLIAM T. COOK, Bowling Green, Ohio. Filed Dec. 28, 1918. Serial No. 268,646. 2 Claims. (Cl. 72—43.)

1. A building block comprising a plurality of spaced webs forming a plurality of spaces, alternately oppositely inclined braces disposed in one of the spaces arranged with adjacent braces meeting at an apex at one of the interior webs and other braces disposed in an adja-



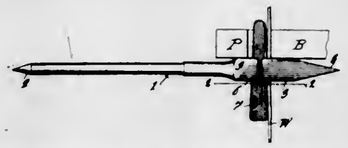
cent space and meeting the same web at a point opposite the apex of the inclined webs.

1,336,026. FAUCET. EDWARD M. DEMPSEY, Sidney, Ohio. Filed May 8, 1918. Serial No. 233,332. 3 Claims. (Cl. 251—47.)



3. A faucet or valve comprising a body provided with a partition having an opening, a valve seat formed on the under side of the partition about the opening therein, a valve coöperating with the seat, a spring yieldingly retaining the valve in engagement with the seat, a hollow extension formed on the upper side of the body and having a shoulder and grooves located above said shoulder, a bushing removably mounted in the extension upon the shoulder and provided with ribs fitting in the grooves, a rod slidably mounted in the bushing and having its upper end provided with a screw threaded socket and having its lower end engaging said valve, means closing the upper end of the extension and engaging the upper end of the bushing, a stem rotatably mounted in the means and having its lower end threaded and engaging in the socket, said means having a bearing in its under side about the stem, and a shoulder on the stem engaging in the bearing.

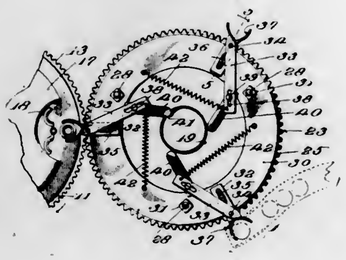
1,336,027. COMBINED POSTHOLE-DIGGER, WIRE-TIGHTENER, AND CROWBAR. GEORGE EVANS, Elnora, Alberta, Canada. Filed Dec. 6, 1918. Serial No. 265,587. 2 Claims. (Cl. 254—77.)



1. An implement of the class described, comprising a bar having a wire-receiving opening extending trans-

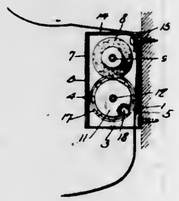
versely therethrough, with an opening through one side wall of the bar midway the length of said first-mentioned opening to afford access to said opening to permit the insertion and removal of a wire, the end walls of said first-mentioned opening being convex and rounded at their outer sides to prevent breakage of the wire.

1,336,028. AUTOMATIC TAKE-OFF DEVICE FOR GLASS-BLOWING MACHINES. HENRY C. FENTRESS, Glen Dean, Ky. Filed Feb. 21, 1919. Serial No. 278,492. 6 Claims. (Cl. 49—14.)



1. The combination with a glass blowing machine having a movable glass glown article support, of an automatic taking off device comprising a pedestal, a turn table rotatably supported thereon, an annulus vertically adjustable on the turn table, a plurality of pairs of pivotally connected jaws carried by the annulus for engaging and removing glass blown articles from the support, a tail piece on one jaw of each pair, and a cam on the pedestal engaged by said tail piece and controlling the jaws for the automatic working thereof.

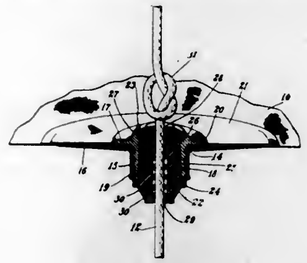
1,336,029. MARKER. CHRISTIAN A. FISCHER, Grand Forks, N. D. Filed Apr. 30, 1919. Serial No. 293,587. 8 Claims. (Cl. 101—212.)



3. A device for the purpose set forth comprising a holding member having open ends and provided at one end with inwardly projecting lips, a casing open at one end and at one side slidably fitted within the holder and engaging against said lips, printing mechanism carried by said casing, and a presser member within the holder arranged to coöperate with the printing mechanism.

1,336,030. CORD-PACKING. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 2, 1918. Serial No. 260,889. 6 Claims. (Cl. 244—3.)

2. The combination of a pressure receptacle, a cord passing through an aperture in the wall of said receptacle, and a pressure-retaining device in said aperture including a soft-rubber, flexible, annular, conical, packing



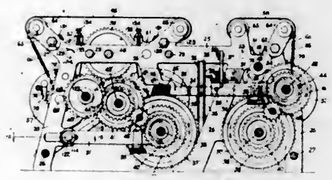
member elastically gripping the cord and reversible by a reversal of the direction of travel of the latter.

1,336,031. SPRING-WHEEL. WILLIAM GERHARDT, San Antonio, Tex. Filed July 12, 1915. Serial No. 39,434. 8 Claims. (Cl. 152—50.)



1. In a resilient wheel, a spoke formed of a series of separate spring leaves in face to face contact and each of a length substantially that of the spoke, and a U-shaped clip individual to the spoke and applied to the end thereof and holding all of the leaves together between the legs of the U-shaped clip.

1,336,032. STATION-INDICATOR AND ADVERTISING DEVICE. JOHN A. GREER, Omaha, Nebr. Filed Sept. 20, 1918. Serial No. 255,210. 5 Claims. (Cl. 40—31.)



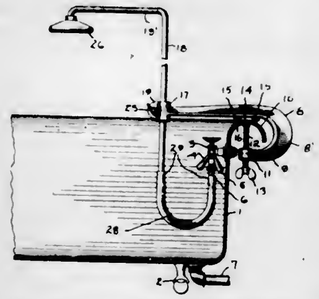
1. In a station indicator, web-driving rolls, a motor, clutch-controlled connecting means between said motor and said rolls for driving the latter, means for automatically throwing out said connecting means after a fixed period of operation thereof, and manually controlled means for throwing in said connecting means.

1,336,033. DETACHABLE HANDLE FOR TRUCKS. WALTER C. HECHT, Newport News, Va. Filed Nov. 16, 1918. Serial No. 262,836. 2 Claims. (Cl. 280—48.)
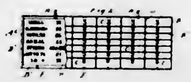


2. The combination with a wheeled vehicle, of an attaching member provided with key-hole slots having their larger ends toward the center of the vehicle, a tongue and headed pins carried by the tongue proportioned and positioned to enter the larger ends of the slots and to be moved to the smaller ends by stress applied to draw the vehicle.

1,336,034. PORTABLE BATH-SHOWER. KARL K. JENSEN, Berkeley, Calif. Filed Mar. 30, 1917. Serial No. 158,558. 1 Claim. (Cl. 4—26.)



In a device of the character described a bracket adapted to be supported on the edge of a tub; spaced gaskets on the under side of the bracket, contacting with the tub edge; an extension elbow on said bracket extending under the tub edge; a threaded clamp adjustably mounted in said elbow and adapted to be moved into frictional contact with the tub edge; a clamp formed in the opposite end of said bracket; a shower tube adapted to be secured therein; a shower head on one end of said shower tube; means for regulating the vertical and lateral position of said shower head by adjustment of the shower tube and a flexible tube connecting the shower tube to the source of water supply.

1,336,035. STATION-INDICATOR. WILLIAM CROMWELL KNOX, New York, N. Y. Filed Dec. 9, 1918. Serial No. 265,822. 1 Claim. (Cl. 40—132.)



In a station indicator, a case adapted to be suspended from the roof of a car at the midlength of the latter, horizontal and vertical partitions in said case dividing its interior into a plurality of compartments open at each end, vertical ways on the sides of said base, plates removably received in said ways and covering such sides, having station-names cut therein to match to such compartments, a translucent lining covering the inner face of each of said plates, an incandescent electric lamp in each compartment, and a switch adapted to control said lamps and illuminate such compartments and station-names successively.

1,336,036. VIBRATORY DISK. PHILIPP LACHMAN and GEORGE THOMAS, Rahway, N. J. Filed Mar. 5, 1919. Serial No. 280,850. 11 Claims. (Cl. 274—27.)



1. In a device as herein characterized the combination with a vibratory diaphragm, of a control wheel including a hub having a threaded bore, tension screw bushing having threaded engagement in said bore, spokes radiating from said hub and connected to a circular rim, said spokes having radial slots therethrough, tension buttons slidably mounted in said slots and having sliding contact with said diaphragm, said rim spaced from said diaphragm, but rigidly connected therewith, substantially as set forth and for the purpose specified.

1,336,037. AUTOMOBILE TURNTABLE-JACK. WILLIAM J. LA GRANGE, Rensselaer, N. Y. Filed Mar. 19, 1919. Serial No. 283,626. 4 Claims. (Cl. 280—44.)



3. An automobile turn table jack comprising in combination, a front truck base, a forwardly inclined frame pivoted thereto and arranged to engage the front axle of an automobile, a forwardly inclined rear frame to engage the rear axle of the automobile, a lifting jack supported on said truck base and extending upwardly and rearwardly to the front axle, a connection between said rear frame and said truck base, whereby when the jack is operated to force the front axle rearwardly, said inclined frames are swung toward a vertical position and the automobile lifted, and toggle links between said front truck base and its inclined frame, whereby as the latter swings upward the toggle is straightened into position to lock the frame and hold the automobile up independently of said jack.

1,336,038. SCREEN FOR PORTHOLES AND THE LIKE. ULYSSES G. LEE, Chicago, Ill. Filed Aug. 5, 1919. Serial No. 315,512. 13 Claims. (Cl. 114—177.)

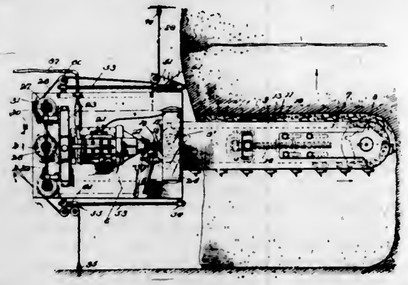


1. A screen for circular window openings or port holes comprising an expansible substantially circular frame carrying the screen material together with means for securing the frame in place in said opening.

1,336,039. COAL-MINING MACHINE. GEORGE MCCARTER, Denver, Colo. Filed Dec. 2, 1918. Serial No. 265,027. 17 Claims. (Cl. 262—30.)

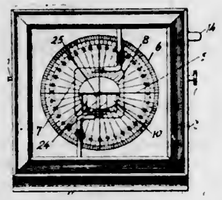
1. A mining machine including vertically spaced endless cutters mounted to cut forwardly and laterally in the

working face, means operatively connected with the cutters for simultaneously rotating the same, a conveyer ar-



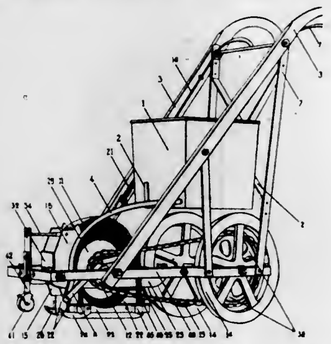
ranged at the rear of the cutters, and a scoop arranged on one side of the machine for directing coal to the conveyer when the machine is making a lateral cut.

1,336,040. LENS-TESTING INSTRUMENT. HENRY B. MATHEWSON, San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 11, 1916. Serial No. 136,269. 13 Claims. (Cl. 88—56.)



1. A device of the character described, including a transparent table and a chart beneath the table, whereby the image of the chart may be seen through a lens on the table, and a transparent indicator adjustably mounted adjacent the table to facilitate desired positioning of the lens on the table.

1,336,041. MACHINE FOR THE MECHANICAL APPLICATION OF PAINTS AND OTHER LIQUIDS. JOSEPH ELI MAYO, Sacramento, Calif., assignor of one-half to George Combs Bassett, Sacramento, Calif. Filed July 25, 1918. Serial No. 246,660. 15 Claims. (Cl. 91—39.)

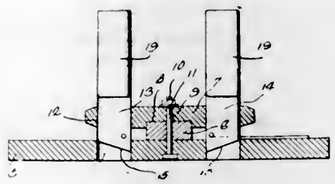


1. A liquid coating applying machine comprising a suitable frame, a rotatable circular brush, a spindle upon which said brush is mounted upon said frame, driving means for said brush, a clutch for connecting said brush and driving means, and means for operating said clutch.

6. A liquid coating applying machine comprising a suitable frame, a rotatable circular brush mounted thereon, means for rotating said brush, a feed chamber adjacent said brush and provided with one or more feed openings for supplying liquid to said brush, and a guide coöperating with said feed chamber for compressing and flexing the bristles of said brush at said opening or openings.

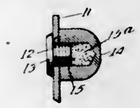
12. A liquid coating applying machine comprising a rotatable cylindrical brush, means for rotating said brush over a surface to be coated, and a guide plate yieldably mounted at each side of said brush for sliding engagement with said surface and to contact with the brush to hold the latter true and regulate the width of stripe.

1,336,042. SAW-GUMMER. JOHN MILES, Ontonagon, Mich. Filed July 16, 1918. Serial No. 245,169. 1 Claim. (Cl. 76—30.)



In an appliance of the character described, an anvil having two die-sockets, a raised portion between them, a head of the raised portion and having guides overhanging the sockets, cutting dies slidable through the guides at opposite sides of the raised portion and coacting with the sockets for lengthening the rakers and teeth of a cross cut saw, and handles on said cutting dies adapted to receive a blow for the cutting operation of said dies.

1,336,043. LABORATORY-DISH. JULIUS JOHN MOJONNIER, Oak Park, Ill., assignor, by mesne assignments, to Mojonnier Bros. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 1, 1919. Serial No. 274,487. 13 Claims. (Cl. 23—3.)



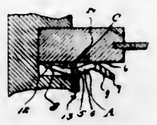
1. The combination with a dish, of means attached thereto for fixing the weight thereof.

1,336,044. KEYBOARD-CLEANER. JAMES W. PENNEWILL, Silver City, N. Mex. Filed Apr. 22, 1919. Serial No. 291,999. 3 Claims. (Cl. 15—28.)



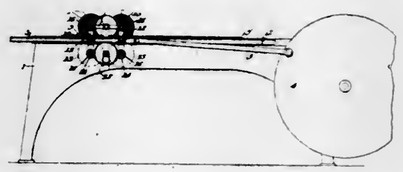
1. A keyboard cleaning cloth of the class described, comprising a series of flexible strips joined together at their ends and adapted to pass over the heads of a multiplicity of keys for simultaneously cleaning the same.

1,336,045. WINDOW-RATTLING STOP. ALEX S. PETERSON, Bayonne, N. J. Filed May 7, 1918. Serial No. 233,112. 1 Cyalm. (Cl. 292—343.)



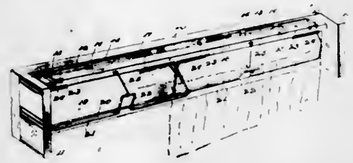
A device of the class described consisting of a plate bent on a transverse line with resultant members lying at an obtuse angle to each other, that face of one member within the angle being converged to the opposite face of the member in the direction of its free end and the free end portion of the other member being directed away from the aforesaid angle for reversible use of the device as set forth.

1,336,046. FIBER-CLEANING DEVICE. RAMON QUIJANO, San Antonio, Tex. Filed Aug. 8, 1919. Serial No. 316,259. 6 Claims. (Cl. 13—18.)



6. Apparatus for cleaning fibers, comprising parallel racks having teeth on their upper and lower edge, guides for said racks, means for reciprocating the racks, a clutch device connected to the ends of the racks, revolubly mounted cleaning devices disposed at opposite sides of the plane of motion of the clutch device and adapted to operate upon opposite sides of the fibers held by the clutch device and means intermediate the racks and the cleaning devices for revolving the latter during the return stroke of the rack mechanism, the arrangement being such that the opposing faces of the cleaning devices move in a direction opposite to the direction of movement of the racks.

1,336,047. CURTAIN AND PORTIÈRE HANGER. WLADISLAUS RAKOWSKI, South Bethlehem, Pa. Filed Oct. 14, 1919. Serial No. 330,643. 8 Claims. (Cl. 156—24.)



8. A device of the character described including a body bar, attaching means therefor, a spring pressed fabric gripping jaw pivoted upon the bar and normally held closed to coact therewith, the jaw being provided with a thumb lug for swinging the jaw to open position, and means connected with the bar and engageable with said lug for holding the jaw open.

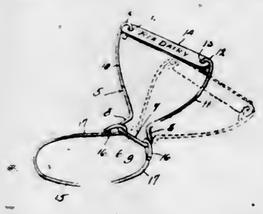
1,336,048. SYSTEM OF IRRIGATION-PIPES. GEORGE W. RICE, Twin Falls, Idaho. Filed Oct. 17, 1916. Serial No. 126,219. 5 Claims. (Cl. 61—12.)

1. In a system of irrigation pipes of the type characterized by a reversible headgate and an elbow projecting angularly from one face thereof, a main supply pipe adapted to extend from said elbow, and provided with regulable lateral discharge outlets in one side thereof, and a plurality of sections of irrigating pipes of less diameter than the internal diameter of said main pipe, each section having at its entrance terminal a rotatably and slidably



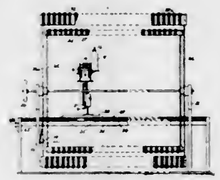
mounted baffle, said sections also provided with a series of regulable lateral discharge outlets in one side, means for detachably securing the adjacent ends of said sections, said sections adapted to be nested within the main supply pipe when not in use, and said sections adapted to be reversed for use on either side of a supply ditch.

1,336,049. MILK-BOTTLE CARRIER. GEORGE T. RIX, Denver, Colo. Filed Dec. 17, 1919. Serial No. 345,449. 4 Claims. (Cl. 215—1.)



1. An article carrier comprising a handle section and a jaw section, said jaw section including a length of resilient wire, having loops formed at its ends, said handle section having an offset portion, said loops embracing the handle section at a point within the offset portion thereof, said offset portion being constructed to lock the loops to the handle section.

1,336,050. APPARATUS FOR DRYING COATED FILMS. CHARLES ROSIER, New York, N. Y. Filed July 30, 1915. Serial No. 42,817. Renewed Aug. 26, 1919. Serial No 320,046. 7 Claims. (Cl. 242—55.)

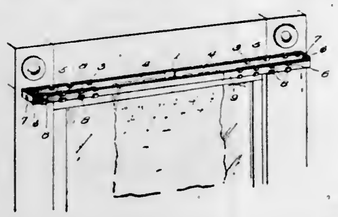


1. Apparatus for drying a coating of a solution applied to a film comprising a winder, and separators arranged in spaced relation thereon and adapted to receive portions of the coated film between them and having axially spaced portions arranged to engage and support the edges only of the film.

1,336,051. COMBINATION SHADE AND CURTAIN HOLDER. MATT ROTH and LUCY ROTH, Muskogee, Okla. Filed Oct. 21, 1919. Serial No. 332,137. 2 Claims. (Cl. 156—23.)

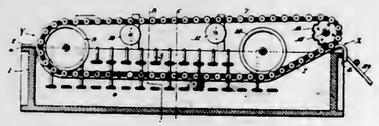
2. A device for the purpose set forth comprising a back plate provided with hooks on its upper and lower edges adjacent its ends, U-shaped frames having their rear arms slidably engaged in said hooks and their end portions con-

structed to support the window shade roller, the front arms of said frame being provided with hooks at their



upper and lower edges, and a curtain holding strip having its end portions engaged in the said hooks on the U-shaped frames.

1,336,052. APPARATUS FOR ELECTROPLATING. GEORGE C. FINGER, New York, N. Y., assignor of one-half to Republic Iron and Steel Company, a Corporation of New Jersey. Filed Jan. 24, 1917. Serial No. 144,126. 20 Claims. (Cl. 204—5.)



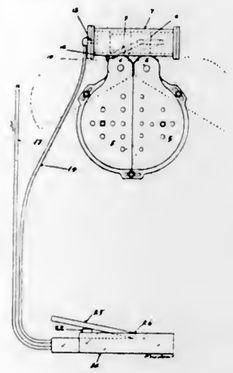
11. A device adapted to electro-plate pipe sections and similar hollow articles, consisting of a pair of tracks immersed in an electro-plating solution, wheeled carriers comprising links of an endless chain and movably mounted upon said tracks, means upon said wheeled carriers for supporting and moving pipe sections through an electro-plating solution, said tracks being connected with the cathode terminal of an electric circuit, and anodes within said solution and adjacent the path of a pipe section in its movement through the plating solution.

1,336,053. HOSE-SUPPORTER. HERMAN SACKS, Chicago, Ill., assignor to Albert T. Van Alstyn, Grand Rapids, Mich. Filed Nov. 27, 1916. Serial No. 133,746. 6 Claims. (Cl. 241—6.)



6. A garter comprising a band adapted to surround the leg of the wearer and having its ends crossed, the crossed parts being provided at their point of intersection with a separable pivotally connected snap fastener, the parts of which are covered to prevent contact thereof with the skin and clothing of the wearer.

1,336,054. FIRE-DOOR-OPERATING DEVICE. FREDERICK B. SEARLE, Denver, Colo. Filed May 6, 1919. Serial No. 295,099. 3 Claims. (Cl. 110—177.)

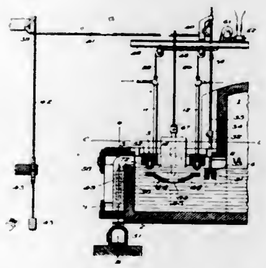


3. Means for controlling the inlet and exhaust of motive fluid for fire door operating purposes, comprising a platform having communicating passages therein, a plate hinged on said platform, and a valve controlling said passages and mounted in the platform, said valve being normally closed and arranged to support the plate in a position inclined upwardly from its hinged edge, whereby as the plate is pressed downwardly, the valve is moved to open position to permit passage of fluid through said passages.

1,336,055. WALL-BOARD SIZE. BENJAMIN WILSON SIDWELL, Buffalo, N. Y., assignor to The Beaver Company, a Corporation of Ohio. Filed Nov. 30, 1918. Serial No. 264,845. 12 Claims. (Cl. 134—22.)

6. A size for wood fiber products and the like, containing resin, wax, manganese dioxid, lime and a binder.

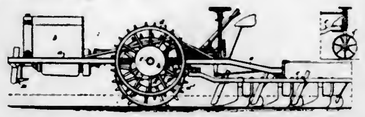
1,336,056. METHOD OF AND APPARATUS FOR DRAWING GLASS. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Filed Oct. 16, 1915. Serial No. 56,184. 60 Claims. (Cl. 49—17.1.)



1. In glass drawing apparatus, a hollow metal segregating device having sloping polished walls, and means for circulating cooling water through said hollow metal segregating device to maintain the same at a temperature low enough to avoid adhesion of the glass in contact therewith.

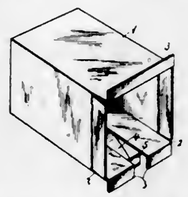
52. The process of drawing glass articles which consists in so conditioning a glass segregating element that it will not adhere to hot glass, immersing said element while maintained in such condition into a bath of molten glass to segregate a portion of glass non-adherent to the said element during the segregating act, and drawing the glass article from the so segregated portion of glass.

1,336,057. SELF-PROPELLED AGRICULTURAL IMPLEMENT. EDWARD WILLIAM THOMAS, Luton, England. Filed Apr. 17, 1918. Serial No. 229,078. 2 Claims. (Cl. 180—41.)



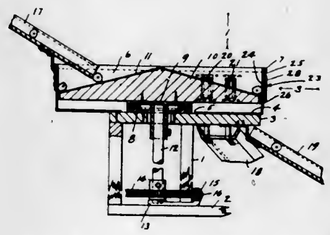
1. In a self propelled agricultural implement, an axle for the running wheels which is cranked in different directions at its opposite ends so that the wheels mounted on the cranked portions which are rigid with the main portion will be raised or lowered relatively to each other and to the framing when the axle is rotated, and means for rotating the axle to adjust the position of the wheels relatively to the frame and to each other, which means comprises a ratchet drum fixed on the axle provided with a double row of oppositely arranged teeth, a lever fulcrumed loosely on the main portion of the axle, a pair of pawls to engage with the said rows of teeth pivoted on the said lever, means for engaging and disengaging the pawls from their respective rows of teeth and means for locking the axle against rotation when required.

1,336,058. REMOVABLE OVEN. CHARLES D. WILSON, Syracuse, N. Y., assignor to Marguerite M. Wilson, Syracuse, N. Y. Filed Dec. 19, 1917. Serial No. 207,866. 8 Claims. (Cl. 126—100.)



1. The combination with a heater having a fuel opening, an oven removably inserted in the fuel opening and having an expansible and contractile outer end to fit fuel openings of different sizes.

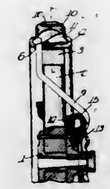
1,336,059. FRUIT-GRADER. WILLIAM I. WINCHESTER, Los Angeles, Calif., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif., a Corporation of California. Filed Apr. 21, 1919. Serial No. 291,734. 7 Claims. (Cl. 130—32.)



1. In a fruit grader, a vertical wall having a horizontal hole, and helical springs slidingly mounted in vertical planes to vary the effective size of the hole.

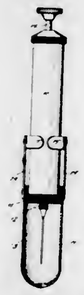
1,336,060. RESILIENT WHEEL. JOSEPH M. WOODS, Chicago, Ill., assignor to Daniel O'Leary, Chicago, Ill. Filed Aug. 2, 1916. Serial No. 112,635. 9 Claims. (Cl. 152—28.)

1. In a vehicle wheel a fixed rim, a movable rim, a tread portion on said movable rim, pneumatic means substantially removed from said movable rim, connecting levers between said movable rim and said pneumatic means, said levers being fulcrumed between their ends on said fixed rim and engaging said movable rim at one end



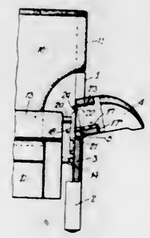
and directly engaging said pneumatic means at their other ends, whereby the pressure communicated to said tread portion is communicated to and resisted by said pneumatic means.

1,336,061. STERILIZER ATTACHMENT FOR HYPODERMIC SYRINGES. GUS B. YOUNG, Des Moines, Iowa. Filed Apr. 21, 1916, Serial No. 92,669. Renewed Mar. 8, 1919. Serial No. 281,555. 3 Claims. (Cl. 128—215.)



1. In a hypodermic syringe, a syringe barrel having a screw-threaded member, a receptacle open at one end having a screw-threaded portion at its open end adapted to coact with the screw-threaded portion of the barrel, arms projecting from the free end of said receptacle and designed to stand alongside the barrel, made of resilient material, each of said arms having at its free end a gripping member, adapted to yieldingly engage said barrel, whereby the receptacle may be secured on to the barrel and when relieved from its screw-threaded engagement, may be slid longitudinally with relation thereto, so that said arms will hold said receptacle in different positions with relation to the barrel.

1,336,062. BED-CHAIR. JOHN A. ARTON, Chicago, Ill. Filed Sept. 2, 1916. Serial No. 118,240. 6 Claims. (Cl. 5—16.)



2. In a chair; a frame, an overturnable portion comprising a seat and bed forming members, arms pivotally connected to the frame, and devices on said overturnable

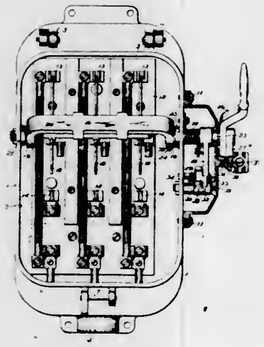
portion and said arms adapted to mutual engagement, whereby the arms will be released when the seat is overturned and turned upwardly when the seat is restored to normal position.

1,336,063. SEMAPHORE FOR AUTOMOBILES. ARTHUR BACHMAN and HARRY BACHMAN, Philadelphia, Pa. Filed Nov. 26, 1919. Serial No. 340,916. 2 Claims. (Cl. 116—53.)



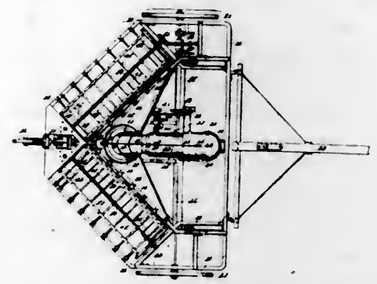
1. A semaphore for automobiles comprising the combination of a bracket having a crosswise ranging bell crank lever bearing and a goose neck standard aranged in the direction of the length of the bracket constituting a lengthwise ranging blade bearing, fixed and turnable blades mounted on the blade bearing and provided with extensions beyond the same, bell crank levers on the bell crank lever bearing, and connections between the extensions of the blades and levers, substantially as described.

1,336,064. MOTOR-STARTING SWITCH. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 7, 1916. Serial No. 76,678. 3 Claims. (Cl. 200—3.)



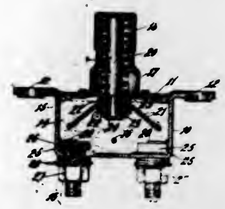
3. A motor starting switch comprising a box open at one side, a cover for the open side of the box, a switch located in the box and including two sets of contacts and a switch member movable about an axis located within the box, and a shaft extending through the side of the box in axial alinement with the switch member, the switch member being mounted on the shaft, the switch member being movable in one direction from neutral position to carry terminals thereof into engagement with one set of the contacts and in the opposite direction to carry terminals thereof into engagement with another set of contacts, a handle mounted on the shaft on the outside of the box, means carried by the side of the box adjacent the shaft for controlling the movement of the shaft and the switch member to carry terminals thereof first into engage ment with the one set of contacts before the shaft can move to carry terminals of the switch into engagement with the other set of contacts, substantially as and for the purpose specified.

1,336,065. HAY-LOADER. NICHOLAS M. BOWERS, West McHenry, Ill. Filed Sept. 24, 1915. Serial No. 52,439. 9 Claims. (Cl. 56—344.)



1. A hay loader comprising a vertically extending pipe; a horizontal extension to said pipe swiveled to the upper end thereof, said extension comprising a plurality of telescoped sections; means for inducing a draft of air through said pipe; and yielding means normally holding said sections contracted, substantially as described.

1,336,066. PEDAL-SWITCH. STEPHEN F. BRIGGS and EDWARD N. JACOBI, Milwaukee, Wis., assignors to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 10, 1917. Serial No. 147,913. 11 Claims. (Cl. 200—159.)



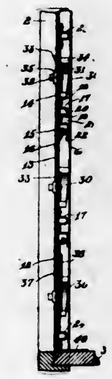
10. In a switch, a casing, a plunger passing through a wall of the casing, a plunger contact carried by the plunger, a fixed contact engaged thereby, and an insulating block secured on the plunger and having sliding engagement with the wall of the casing to prevent the plunger from turning and to guide the plunger contact into engagement with the fixed contact.

1,336,067. BATTERY HAND-LAMP. CHARLES F. BURGESS, Madison, Wis., assignor to Burgess Battery Company, a Corporation of Wisconsin. Filed Apr. 8, 1919. Serial No. 288,476. 5 Claims. (Cl. 240—8.5.)



1. In a tubular hand lamp, the combination of a casing, a battery therein, a spring pressing against the bottom of said battery to establish electrical connection therewith, a lens and a reflector at the other end of said casing, a lamp secured in said reflector, a bumper in said casing between the battery and the reflector, a spring connecting one terminal of said battery to the inner terminal of said lamp, a ring encircling said bumper, a finger connecting said ring with said reflector and means for completing the connection between said bottom spring and said ring.

1,336,068. GRAIN-DOOR. PARIS CHESEBRO, Fairport, N. Y. Filed Sept. 9, 1918. Serial No. 253,199. 5 Claims. (Cl. 20—32.)



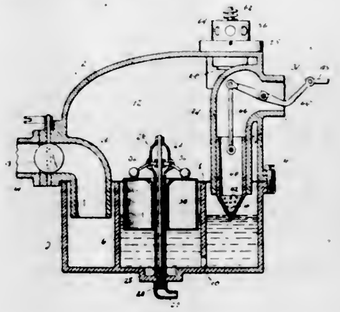
1. A sliding door of the character described comprising, in combination with channeled guides in which the side edges of the door engage, a plurality of separable sections, inwardly turned abutting flanges formed along adjacent edges of adjoining sections, one of said flanges being doubled upon itself to form an outwardly opening groove in which the other of said flanges slidably engages, and means carried by one section for overhanging said grooved flange on the other section, such means preventing lateral withdrawal of the engaging flanges.

1,336,069. CIRCUIT-BREAKER. NICHOLAS J. CONRAD, Chicago, Ill. Filed Apr. 27, 1918. Serial No. 231,142. 40 Claims. (Cl. 200—166.)



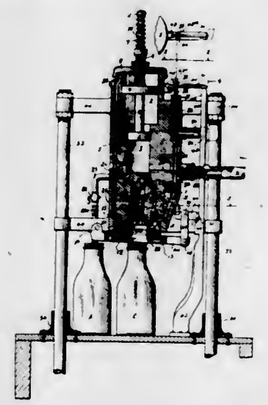
1. In a circuit breaker, a casing of insulation, a body of liquid in said casing, a stationary contact at one end of said casing, a movable contact normally engaging with said stationary contact, a resetting member having connection with said movable contact and extending out through the top of said casing, a spring normally tending to separate said contacts supported by said casing, means for mechanically tripping said movable contact to release the same, and liquid directing means operable by the motion of said movable contact to project said liquid between said contacts.

1,336,070. CARBURETER. DANIEL L. F. COOMBS, Kansas City, Mo. Filed Feb. 14, 1917. Serial No. 148,599. 1 Claim. (Cl. 261—121.)



A carbureter comprising a casing, a liquid chamber in the casing having a float-control valved-inlet opening therein, a second chamber communicating at its lower portion with the first chamber and having a space above it, a third chamber diametrically opposite the second chamber, a suction pipe depending within said third chamber and communicating with said space, an air inlet port in the casing above the liquid level in the second chamber, a sliding air-controlling member in the air-inlet port and movable toward and away from said liquid and an auxiliary air valve adapted to admit air to said space.

1,336,071. BOTTLE-FILLING DEVICE. DILLON C. DANNELLEY, Dallas, Tex. Filed Sept. 26, 1918. Serial No. 255,864. 9 Claims. (Cl. 226—109.)

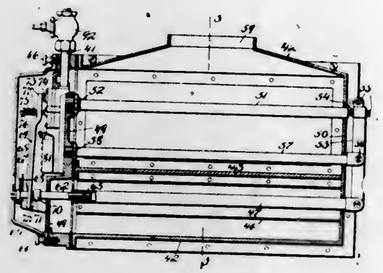


2. A bottle filling device, comprising in combination; a head member provided with a cylindrical bore, and a syrup bore provided therein, a piston slidably confined within the cylindrical bore, a piston slidably confined within the syrup bore, a piston rod carrying both the pistons, a packing gland with an opening for receiving a bottle, a syrup passage connecting the syrup bore with the bottle, and an air passage connecting the bottle with the cylinder bore.

1,336,072. TEMPERATURE-REGULATOR. VERNER F. DAVIS, Orange, N. J. Filed Nov. 14, 1917. Serial No. 202,049. 7 Claims. (Cl. 236—13.)

7. A thermostat having a casing divided into chambers, one chamber having openings for the passage of hot air, the other chamber having an opening for cold air, a ther-

mostatic member in each chamber, a lever with which the thermostatic members are in operative connection, the thermostat having valved passages for the passage of air



under pressure, and a connection between one of the thermostatic members and the valved passages for controlling the passage of air through said passages.

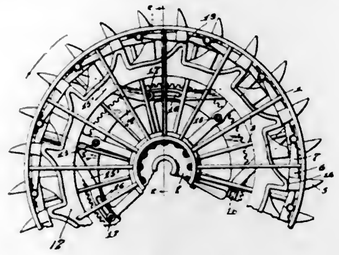
1,336,073. DOLLY EXTENSION. GEORGE A. DE GRAFF, Milwaukee, Wis., assignor of one-half to Henry J. Smith, Chicago, Ill. Filed July 12, 1919. Serial No. 310,473. 1 Claim. (Cl. 78—53.5.)



The combination of a dolly having a compressed air chamber provided with an entering orifice; a set having a shank adapted to fit within said chamber through said orifice, said set having a forming socket in the head thereof, and an extension member introduced between said dolly and said set for operatively connecting the same, said member having an extension for entering said chamber in said dolly; and a socket at the opposite end for holding said set.

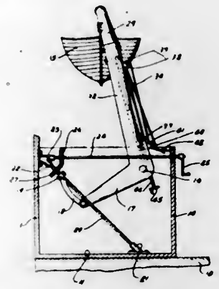
1,336,074. TRACTOR-WHEEL. EDMURN L. DEMOREST, Columbus, Ohio, assignor to James Ellwood Jones, Switchback, W. Va. Filed Mar. 5, 1918. Serial No. 220,633. 3 Claims. (Cl. 21—209.)

3. In a tractor wheel including a hub and rim having a plurality of apertures therein, a plurality of substantially right angular spike members pivoted at one end to said wheel and arranged to project through said apertures at their other ends, a cam ring for engaging said spikes rotatably mounted on said hub, a plurality of slotted bands arranged as chords across said rim, a driving gear,



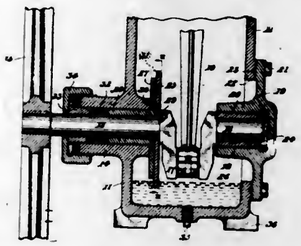
means for connecting said gear to said bands through their slotted openings, and a rigid connection between said gear and said ring.

1,336,075. LIFEBOAT-DAVIT. JOHN J. EGLIT, New York, N. Y. Filed July 19, 1919. Serial No. 312,077. 1 Claim. (Cl. 9—22.)



A davit of the character described having, in combination, a davit arm pivoted on a horizontal axis to be swung to and from a horizontal position, a plurality of pulleys mounted on said arm for movement toward and from each other, a boat supporting rope passing around said pulleys to be paid out as said pulleys are moved toward each other and means to move said pulleys toward and from each other to pay out and draw in the boat supporting rope.

1,336,076. AUTOMATIC SEALER AND LUBRICATOR FOR REFRIGERATING-COMPRESSORS. JOSEF ELLMAUER, Milwaukee, Wis. Filed Oct. 7, 1919. Serial No. 329,167. 6 Claims. (Cl. 184—13.)



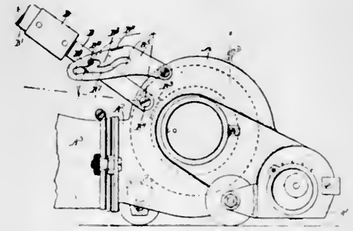
4. A refrigerating compressor having a crank case, a bearing head secured to one side of the case, a journal bearing in the opposite sides of the case, a crank shaft revolubly mounted in said head and bearing, a sleeve surrounding the shaft within said bearing, a flange carried by the sleeve within the crank case, an oil-splashing disk member attached to the shaft for rotation therewith positioned flatly adjacent said flange, a packing surrounding the shaft, compressing means for the packing, and lubricating oil in the bottom of the crank case through which the peripheral portion of the disk member is adapted to pass.

1,336,077. NUT-LOCKING DEVICE. WILEY J. HALES, Houston, Tex., assignor of one-half to F. E. Groschke, Harris county, Tex. Filed Aug. 26, 1918. Serial No. 251,460. 3 Claims. (Cl. 151—66.)



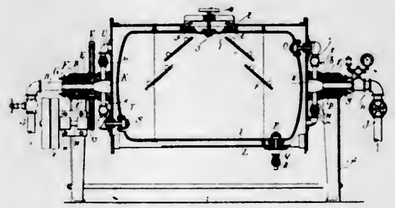
1. In a device of the character described, the combination with railway rails, whose ends abut of fish plates, arranged on opposite sides of said abutting ends, bolts passing through the fish plates and webs of the rails, one end of each bolt having a head and the opposite end thereof being threaded, nuts secured onto the threaded ends of said bolts, the inner sides of said heads being notched, and the inner sides of the nuts being notched, locking rods seated in the notches, of said heads and nuts, respectively, to lock the bolts and nuts against turning, and means securing said rods against lengthwise movement in said notches.

1,336,078. SUCTION-CLEANER. HOWARD EARL HOOVER, Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,788. 14 Claims. (Cl. 15—60.)



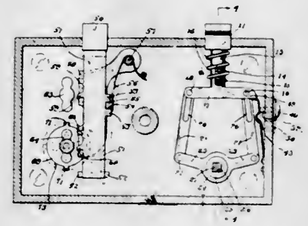
6. The combination with a tool and pivoted handle bail therefor of unitary means for limiting the motion of the handle bail at its upper and at its lower position and for limiting its excursion to a relatively narrow arc of movement intermediate both such positions.

1,336,079. CEREAL COOKER AND STERILIZER. ADOLPH JOHNSON, Battle Creek, Mich. Filed Apr. 8, 1918. Serial No. 227,304. 2 Claims. (Cl. 257—89.)



2. In a cereal cooker, the combination with an outer drum having a manhole, trunnions connected with the ends of the drum and each trunnion having a steam chamber arranged externally next to the end of the drum, a container within the said drum having a manhole connected with the manhole of the drum, means for admitting steam into the drum from the steam chamber of one trunnion, means for discharging steam from the said drum into the said steam chamber of the other trunnion, and means for supporting the said container in the drum comprising tubular devices and strainer heads for admitting steam into the container from the steam chamber of one trunnion and for discharging steam from the container into the steam chamber of the other trunnion and for draining the said container.

1,336,080. LOCK. JOUZAS KARASEVICZ, South Amboy, N. J. Filed May 29, 1919. Serial No. 300,666. 2 Claims. (Cl. 70—29.)

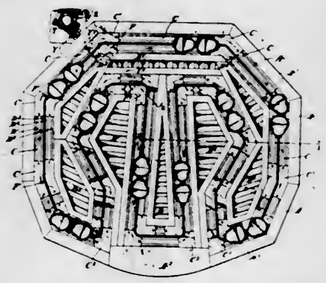


1. In a lock, the combination with a casing, a latch bolt and a lock bolt operable therein, of a stem on said latch bolt, a spring surrounding said latch stem, a transverse bar formed with said stem, slotted links engaging with the ends of said bar, a double armed lever pivoted to said links, knobs extending from each side of said casing, adapted to actuate said lever, a detent spring secured in the casing of said lock, said detent spring being engageable with said transverse bar whereby it is held when in an extended position, and means for releasing said detent spring so that the latch bolt may be operated by said knobs.

1,336,081. SOLDER FOR ALUMINUM. JAMES G. KELLY, Sedalia, Mo., assignor of one-half to Holmes Hall, Sedalia, Mo. Filed Sept. 27, 1918. Serial No. 255,909. 1 Claim. (Cl. 75—1.)

A solder of the character described, comprising thirty four (34%) per cent. lead; thirty four (34%) per cent. block tin; thirty (30%) per cent. zinc and two (2%) per cent. aluminum, amalgamated in the manner hereinbefore described.

1,336,082. AMUSEMENT DEVICE. BENJAMIN KLEIN, New York, N. Y. Filed Dec. 14, 1918. Serial No. 266,706. 12 Claims. (Cl. 104—66.)



1. In an amusement apparatus, a body having an endless track, sprockets carried by the body at intervals, a chain engaging the sprockets to follow a path substantially coinciding with that of the track, a carriage traveling

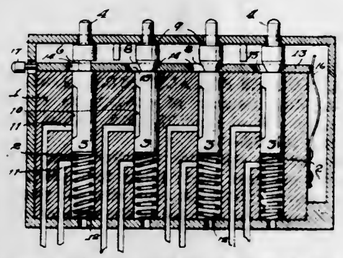
along said track and in driven engagement with the chain, a device for preventing sagging of the chain, and means for vertically adjusting the chain without affecting the driving connections between the chain and the carriage.

1,336,083. POCKET TOOL-HOLDER. HERMAN LUDWIG KRANZ, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,427. 2 Claims. (Cl. 24—3.)



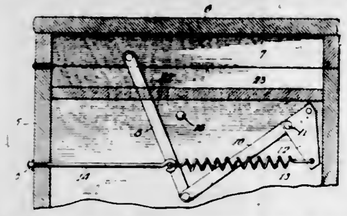
1. In a device of the class described, means for retaining a tool, implement, or the like comprising an endless wire bent into a pair of substantially U-shaped jaws, said wire also providing a pair of mutually divergent legs for securing the device in the pocket, said jaws and legs being resilient, said jaws also being mutually divergent, each jaw having a band of sheet metal or the like extending over the same, and felt or the like on said bands for providing a smooth surface upon which said tool, implement, or the like is adapted to slide on insertion into or removal from said device.

1,336,084. VALVE CONTROL AND RELEASING DEVICE. RAYMOND F. LANDIS, Reading, Pa. Filed Mar. 13, 1919. Serial No. 282,385. 3 Claims. (Cl. 277—20.)



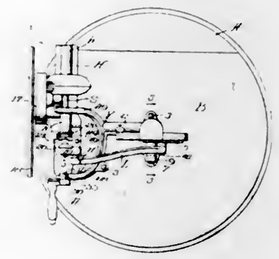
1. In a device of the character described, a body having a plurality of vertically movable valves therein, each of which is capable of actuation at any time, a slide adapted to be moved by the actuation of said valves, and an additional valve which is not operable until the said slide has first been moved to a certain point.

1,336,085. SUPPORT FOR HINGED COVERS OR MEMBERS. FRANK E. LEVANSELER, Chicago, Ill. Filed Mar. 11, 1915. Serial No. 13,821. 2 Claims. (Cl. 217—60.)



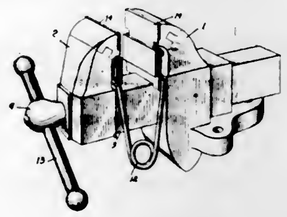
1. The combination with a hinged cover or member, of a link pivotally connected at one of its ends thereto at a suitable distance from its hinged portion, a suitably fulcrumed bell-crank-lever pivotally connected at one of its ends to the other end of said link, and a spring connected at one of its ends to the lever at a point near the end thereof opposite said pivoted end and at its other end to a suitable support, the arms of said bell crank lever being bodily offset at the fulcrum point of said lever with respect to each other so as to move in different planes.

1,336,086. GEARING FOR WASHING-MACHINES. GLENN MORE, Jamestown, N. Y., assignor to Blackstone Manufacturing Company, Jamestown, N. Y., a Corporation of New York. Filed Mar. 17, 1919. Serial No. 283,022. 4 Claims. (Cl. 74—50.)



1. A fixed support, a frame secured thereto, bearings on the frame, a driving shaft mounted horizontally in said bearings, a standard on the frame, a stud on said standard, combined with a second support, an operating shaft, a frame carrying the operating shaft secured to said second support, means hingedly connecting the latter frame with said stud and the driving shaft, whereby the second support may be movably swung about the longitudinal axis of the driving shaft as a center, and removable means on the operating shaft frame maintaining said connecting means in hinged operative relation.

1,336,087. VISE ATTACHMENT. PATRICK F. O'SHAUGHNESSY, Brooklyn, N. Y. Filed June 6, 1919. Serial No. 302,149. 5 Claims. (Cl. 81—38.)

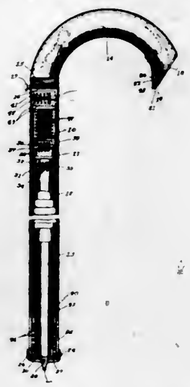


1. A vise attachment embodying a vertically movable member adapted to be positioned between the jaws of a vise to underlie and support work clamped between the vise jaws, a spring associated with the member for holding it in coöperative relation relative to the vise, and means for locking the vertically movable member in a predetermined position beneath the work which it supports.

1,336,088. COMBINED CANE AND FISH-ROD. THOMAS POREMBA, Rome, N. Y. Filed July 24, 1919. Serial No. 312,944. 1 Claim. (Cl. 43—18.)

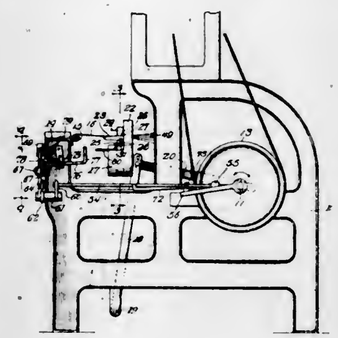
In a combined telescopic cane and fishing pole having a hollow handle for the storage of fishing paraphernalia, the combination of a plurality of telescopic sections, spring pressed plungers in each of said sections adapted to enter

openings in the next adjacent section, a cap for closing the lower end of the cane, a spring for forcing the sec-



tions out of the cane upon the removal of said cap, and a spring for holding the parts against displacement within the cane when said cap is in place.

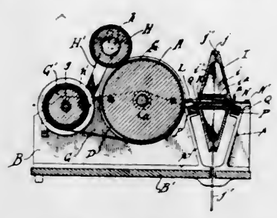
1,336,089. AUTOMATIC CONTROLLING ATTACHMENT FOR LOOMS. LOUIS ROTHFUCHS, Three Oaks, Mich., assignor to The Warren Featherbone Company, Three Oaks, Mich., a Corporation of Michigan. Filed Oct. 12, 1916. Serial No. 125,133. 1 Claim. (Cl. 139—51.)



In a loom, the combination of a shuttle rack, driving mechanism and clutch mechanism, clutch operating members comprising a manually operable bar, a clutch lever, levers pivotally connected with each other and having operative connection with said bar and clutch lever respectively, said levers being flexed in the movement of said clutch lever into clutch releasing position, a tension spring connected with said levers and acting to aid in movement of said levers into clutch releasing position, and means for automatically operating said clutch mechanism comprising a cam bar positioned to be engaged by said shuttle rack in the undesired movement thereof, and adapted to act on said levers to move the same toward clutch releasing position, and a brake member operably connected to and operative simultaneously with said clutch lever, and acting to effect the stopping of said driving mechanism.

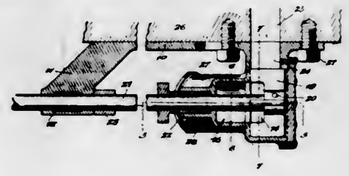
1,336,090. WATER STAGE AND DISCHARGE RECORDER. EUGENE SCHAUB, Logan, Utah. Filed July 26, 1916. Serial No. 111,373. 10 Claims. (Cl. 234—10.)

5. In a recorder of the class described, a marking drum comprising tapering parts positioned to face in opposite directions, and a plurality of rails constituting a bearing surface with which the tapering parts of the drum are in direction frictional contact, in combination with means for rotating said drum so as to impart thereto a traversing movement relatively to the rails, a record sheet,



means for feeding said record sheet, a stylus mounted in said marking drum for movement in the plane of the axis of rotation thereof, and means for applying pressure to said stylus whereby it has forcible contact directly with said record sheet.

1,336,091. WATER-CIRCULATING PUMP FOR COMBUSTION-ENGINES. OTTO T. SCHARMANN, Marshfield, Wis. Filed Jan. 3, 1919. Serial No. 269,544. 3 Claims. (Cl. 123—175.)



1. The combination with a combustion motor having its water jacket provided with a water inlet opening at one side of the cylinder block, of a frame secured horizontally along the cylinder block, having a bearing in its forward end and a pump casing at its rear end, and provided with an opening communicating between the pump casing and the said water inlet opening of the motor, said pump casing having a rear pump chamber and a suction chamber forwardly of the pump chamber, a detachable cap normally closing the rear end of the pump chamber, a bearing at the forward portion of the pump casing, a shaft extending through the forward bearing of the frame and forwardly through the bearing of the pump casing, a pulley secured upon the forward end of said shaft, said casing having a depending nipple communicating with the suction chamber, a propeller secured upon the rear end of the shaft within the pump chamber, and a belt connecting the pulley of the propeller shaft with the crank shaft and fan shaft pulleys of the motor, the rear end of said propeller shaft extending rearwardly beyond the propeller and into engagement with the cap of the pump casing, and a set collar secured upon the propeller shaft rearwardly of and in engagement with the forward bearing of the frame whereby to prevent endwise movement of the shaft in either direction.

1,336,092. PROTECTING-HOLDER FOR TENNIS-RACKETS AND THE LIKE. ALBERT F. SCHENKELBERGER, Quincy, Mass., assignor to Safepack Mills, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 1, 1916. Serial No. 134,246. 2 Claims. (Cl. 229—68.)

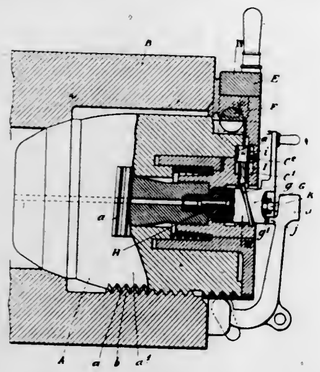
2. A holder of the kind described, composed of a single piece of substantially moisture-proof sheet material tapering from top to bottom and having overlapping folds to form its front constituting a tapering outline, said holder having a fold adjacent the bottom thereof, with a flap projecting from the back and sealed against the front of the holder, and the holder having a fold adjacent to but

spaced from its top with a flap extending from the back of the holder to be folded down over the top of the front thereof, and equipped with means for releasably holding it in folded position, the fold adjacent the top providing



forwardly projecting ledge portions adapted when the holder is open to guide a racket or the like thereinto in conjunction with said flap extending from the back of the holder.

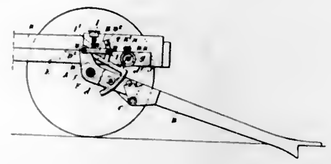
1,336,093. SAFETY MECHANISM FOR USE WITH GUN BREECH-BLOCKS COMPRISING REMOVABLE FIRING-TUBE HOLDERS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Aug. 21, 1918. Serial No. 250,869. 13 Claims. (Cl. 89—27.)



4. In combination with a breech-block, its holder and a firing-tube holder adapted to be positioned in a recess in the breech-block holder, means to prevent insertion of the firing-tube holder into its recess until the breech-block is moved into its closed position, said means comprising a bolt adapted to project into the path of the firing-tube holder, a recess in the breech-block adapted to register with said bolt when the breech-block is in its closed position, and means for moving said bolt into said last-named recess.

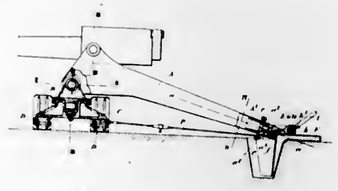
1,336,094. AIMING APPARATUS FOR GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Sept. 13, 1918. Serial No. 253,992. 7 Claims. (Cl. 89—41.)

1. In combination with a gun carriage, means whereby the gun may be adjusted for firing at either high or low angles of elevation, and mechanism for indicating elevations comprising a member provided with scales having



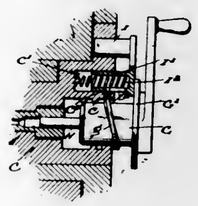
their zero points spaced by a distance corresponding to the different positions of adjustment of the gun.

1,336,095. SINGLE-TRAIL GUN-CARRIAGE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,483. 5 Claims. (Cl. 89—40.)



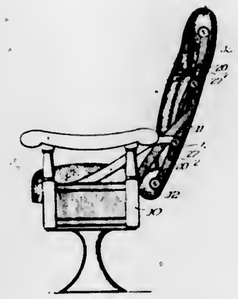
1. The combination with a trail gun-carriage, a mounting on which is pivoted the trail at its forward end to have horizontal angular movement around its pivotal point, an anchoring platform having an arcuate guide centering with the pivotal point of the trail, and a carriage having a pivotal connection with the trail-tail in alinement with the longitudinal axis of the trail, said carriage being slidable on the arcuate guide of the anchoring platform to shift the trail around its forward pivotal point.

1,336,096. SAFETY MECHANISM FOR USE WITH GUN BREECH-BLOCKS COMPRISING REMOVABLE FIRING-TUBE HOLDERS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Aug. 21, 1918, Serial No. 250,869. Divided and this application filed Oct. 27, 1919. Serial No. 333,678. 11 Claims. (Cl. 89—27.)



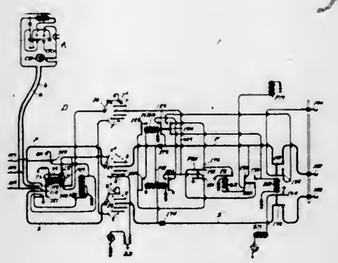
1. In combination with a breech-block, its holder and a firing-tube holder adapted to be positioned in a recess in the breech-block holder, means to prevent insertion of the firing-tube holder into its recess until the breech-block is moved into its closed position, said means comprising a horizontally-movable bolt adapted to project into the path of the firing-tube holder when the breech-block is not in its closed position.

1,336,097. SEAT STRUCTURE. GEORGE X. SCHNEIDER, Blue Island, Ill., assignor to The Curtain Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1916. Serial No. 125,805. 4 Claims. (Cl. 155—26.)



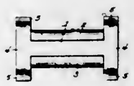
1. In a seat structure, the combination with the head rest portion thereof, of a detachable cover for said head rest portion adapted to be folded on a transverse line, whereby to embrace the head rest portion, said cover when so folded providing front and rear flap portions for the front and rear faces of the head rest portion, oppositely-arranged fastening tabs carried by said cover and adapted to extend across the end face of the head rest portion when the cover is applied thereto, and means for attaching the fastening tabs at said end face of the head rest portion to retain the cover in folded position on the latter.

1,336,098. TELEPHONE SYSTEM. FRED SCHOENWOLF, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1915. Serial No. 66,032. 38 Claims. (Cl. 179—18.)



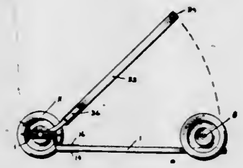
31. A spring restored individual line switch for telephone systems provided with only two magnets, a combined line and release magnet, and a motor magnet.

1,336,099. RAIL-CHAIR. WILLIAM D. SCOTT, Martins Ferry, Ohio. Filed Nov. 18, 1919. Serial No. 338,882. 4 Claims. (Cl. 238—205.)



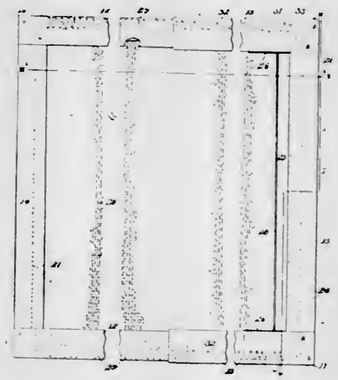
1. A one-piece rail chair comprising a base, oppositely disposed clamp members arranged in inwardly inclined overlying relation to said base, said base having its ends extended beyond and lying in the same plane therewith, and downwardly extending tongues formed at opposite sides of each of said extended ends of the base.

1,336,100. VEHICLE. JOE E. SHEARER, Oakland, Calif., assignor to Herbert D. Lafferty, Oakland, Calif. Filed Nov. 1, 1918. Serial No. 260,643. 14 Claims. (Cl. 280—87.5.)



1. A vehicle comprising a body; supporting wheels having axles spaced away from the plane of said body a distance less than the radius of said supporting wheels, and steering gear, combined and arranged so that said wheels and said vehicle will operate in the inverted position.

1,336,101. ADJUSTABLE WINDOW-SCREEN. JOSEPH A. S. SIMONE, Inwood, N. Y. Filed May 21, 1919. Serial No. 298,723. 5 Claims. (Cl. 156—38.)

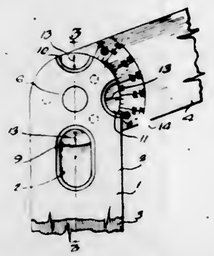


3. A window screen comprising U-shaped sections having their sides telescopingly connected together, one within the other, the inclosing sides having slots and the inclosed sides having grooves corresponding with said slots, a roller journaled in the end of the inclosing side, a screen anchored at one end to the cross end of the section having the inclosed sides, the said screen extending through said grooves and slots, and passing over said roller, the sides of said sections having corresponding grooves therein, a slide plate attached to the screen adjacent said roller, with ends slidably mounted in the grooves of the roller carrying section, and expansion springs tensioned between said sections adapted to automatically extend the frame, upon the relative separating movement of the sections thereof.

1,336,102. BEVEL. JOHN W. SMITH, St. Helens, Oreg. Filed Jan. 30, 1919. Serial No. 274,090. 4 Claims. (Cl. 33—98.)

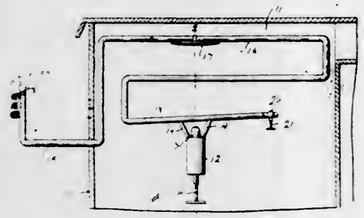
2. In a bevel, the combination, of a stock comprising a pair of plates having their facing surfaces spaced, a blade pivoted at one end of the stock and adapted for seating between the plates thereof, a butt pivotally connected to

the stock at the end opposite to the pivot of the blade and adapted to limit the inserting movement of the blade



between the plates of the stock, said butt adapted for projection from between the plates to engage a flat surface and co-act with the blade in supporting the bevel.

1,336,103. KEROSENE-BURNER FOR RANGES. JOHN W. STARR, Charleston, Wash. Filed Mar. 19, 1919. Serial No. 283,450. 1 Claim. (Cl. 158—63.)



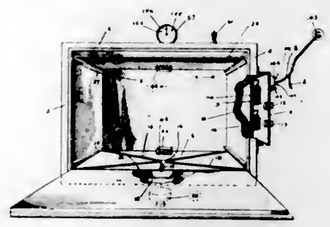
In an oil burner of the character described, a stabilizing chamber having a discharge nozzle, a valve carried by and extending through the chamber into the nozzle for controlling the discharge of vapor from the nozzle, means conveying vaporized oil through the stabilizing chamber and for supporting said chamber including a pipe disposed in close proximity to the flame issuing from the nozzle, and pipes carried by the first named pipe and connecting the chamber to the first mentioned pipe.

1,336,104. IMPULSE-PRESSURE GAGE. LLOYD B. STONE, Tacoma, Wash., assignor to Stor Device Manufacturing Company, County of King, Wash. Filed June 4, 1919. Serial No. 301,628. 1 Claim. (Cl. 73—111.)



In an article of the class described, the combination of a shell, a base removably secured to the shell and having a U-shaped member rigidly secured thereto, a central opening throughout the base, a bushing adapted to be screwed into the wall of the compression chamber of a gas engine and into which the base is screw-threaded, a piston within the shell, a graduated stem for the piston which protrudes through the top of the shell, a resilient valve normally closing the said opening in the base and a U-shaped member for holding the valve to its seat.

1,336,105. ELECTRIC OVEN. FRANK M. SUTTON, San Francisco, Calif. Filed Oct. 21, 1918. Serial No. 258,925. 2 Claims. (Cl. 219—20.)



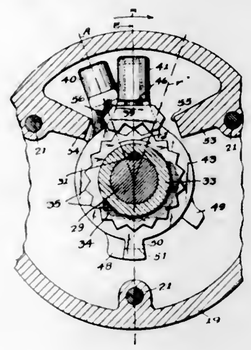
1. In a device of the character described, the combination of an oven having double walls, a door for said oven having double walls, heat insulating material between said double walls, a drain in the bottom of said oven, a sump mounted upon the outside of said oven and adapted to receive fluid from said drain, heating units slidably carried on shelves, contact members carried by the rear of said shelves and the rear of said oven, conductors embedded in said insulating material and adapted to furnish current to said heating units, and means for regulating the current furnished to said heating units.

1,336,106. SIGNAL FOR VEHICLES. PETER V. TAMIETTI, Monrovia, Calif. Filed Apr. 3, 1919. Serial No. 287,126. 4 Claims. (Cl. 116—50.)



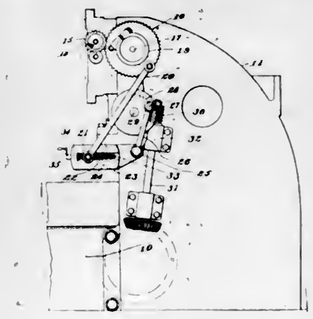
1. A signal for vehicles comprising a shell, two tubes superposed within said shell, each of said tubes being provided with a signal carrying rod, means within said shell to project said signals from without said shell, and slots in said shell receiving means to operatively control said rods.

1,336,107. REAR-AXLE DIFFERENTIAL FOR POWER-DRIVEN VEHICLES. JOHN EDGAR THOMSON, Glen Ridge, N. J. Filed Dec. 14, 1918. Serial No. 266,662. 5 Claims. (Cl. 74—7.)



1. A differential for power-driven vehicles, comprising in combination, a two part revoluble casing, split axles therein, ratchet sleeves attached to said axles, pawl carriers mounted to partially revolve upon said sleeves, double acting pawls mounted in said carriers and coöperating with said ratchet sleeves, and a plurality of lugs in said casing each of which is adapted to cause a pawl to engage with a ratchet when the casing is acting as a driving member.

1,336,108. METAL-WORKING FEED MECHANISM. ALFRED TROSCH, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed Dec. 13, 1918. Serial No. 266,547. 1 Claim. (Cl. 74—54.)



Metal working feed mechanism, comprising a feed shaft extending transversely of the machine, equipped with a pawl and ratchet device for imparting step by-step movement thereto, a gear engaging said pawl and ratchet device having a pitman connected therewith to oscillate the same, a pivoted lever having a longitudinal slot therein in which an end of said pitman is mounted for adjustment toward and from the lever pivot, an adjusting screw mounted in said lever for adjusting said pitman end and arranged at the side of the machine for convenient actuation, and constantly driven gear connections having a second pitman connected therewith and also engaged with said lever for imparting a swinging movement thereto.

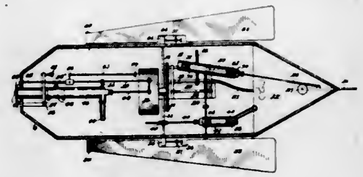
1,336,109. COMBINATION EYE-CUP AND CONTAINER. CHARLES H. TRULLINGER, San Francisco, Calif. Filed June 27, 1917. Serial No. 177,297. 1 Claim. (Cl. 128—249.)



A new article of manufacture, a receptacle substantially elliptical in cross section having the walls thereof converging toward one end and converging toward the other end thereof; a partition interiorly of the receptacle and integral therewith dividing same into two receptacles; means for closing the diverging end of said receptacle; and means whereby the end edge of the open receptacle is concaved on the two greater sides thereof and flattened on the two lesser sides to rest upon a surface and support the containing receptacle uppermost.

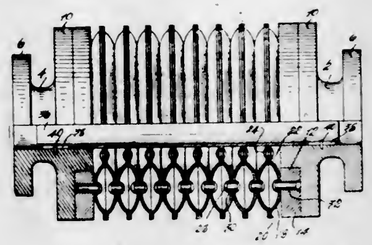
1,336,110. TORPEDO DISCHARGE FOR SUBMARINES. JOHN TURCAN, South Akron, Ohio. Filed Nov. 25, 1918. Serial No. 264,031. 6 Claims. (Cl. 114—238.)

1. In combination with a submarine, a torpedo launching device including a tube projecting from said submarine, a swinging closure gate for the projecting end thereof, a torpedo within the tube, means for holding the torpedo stationary in said tube, a piston in said tube rearwardly of said torpedo and axially alined therewith, means for



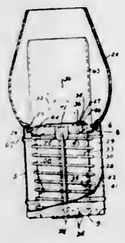
supplying fluid to said tube to operate said piston, and means connected to said piston for opening the tube closure gate and releasing the torpedo.

1,336,111. EXPANSION-JOINT. RUDOLF ULLRICH, Newburgh, N. Y. Filed Feb. 12, 1919. Serial No. 276,592. 15 Claims. (Cl. 285—90.)



10. An expansion joint comprising, in combination, a plurality of annular, hollow, double-convex sections, each having an annular split providing abutting lips in its periphery.

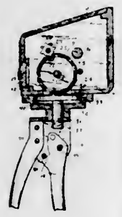
1,326,112. LANTERN. FREDERICK W. VINTON, Weehawken, N. J., assignor to The V. & N. Lantern Co., Inc., a Corporation of New York. Filed May 6, 1919. Serial No. 295,102. 9 Claims. (Cl. 240—39.)



1. In a lantern of the character described, the combination of a cylindrical base member having an inwardly turned upper flange, and an inturned base flange provided with an upturned seat flange; a globe having its lower end received upon said upper flange; a guide cylinder disposed in said base member to form therewith an annular spring housing and provided with diametrically opposite vertical guide ribs, and having its lower edge seated around said seat flange; an oil font disposed in said guide cylinder and having a burner at its upper end; an annular globe carrier formed with a flat main portion having inwardly opening side recesses receiving said vertical guide ribs, and with an upturned flange formed at the outer edge of the main portion; a helical spring disposed in said spring housing between said globe carrier and said

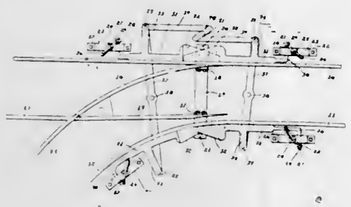
base flange, and yieldably holding said globe carrier in raised position; an auxiliary globe seated in said globe carrier within said upturned flange; and means for lowering the globe carrier.

1,336,113. COUNTER. CHARLES P. WETMORE, Milwaukee, Wis., assignor to Durant Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 30, 1916. Serial No. 128,370. 4 Claims. (Cl. 234—1.)



4. In a device of the class described, a counter comprising a casing, a record receiving surface passagewny therein, counting means disposed in the casing and operable to successively register counting figures with the passagewny, a plunger disposed within the casing adjacent said passageway, a pair of spaced apart ears formed on the casing adjacent said plunger, a handle rigidly secured to the casing intermediate said spaced apart ears, a movable handle pivoted between said spaced apart ears adjacent the rigid handle, and link means pivotally connecting the plunger and movable handle, whereby the plunger is moved inwardly toward the counting means when the movable handle is moved toward the rigid handle.

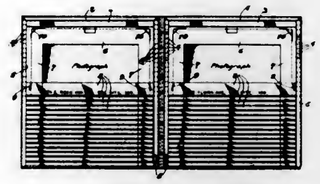
1,336,114. RAILROAD-SWITCH. JÓSEF WILCZYNSKI, Detroit, Mich., assignor of one-half to Mike Dominski, Detroit, Mich. Filed July 2, 1919. Serial No. 308,228. 3 Claims. (Cl. 246—341.)



1. In a railway switch, the combination with the running rails and switch and mate points comprised therein, of trackside brackets secured alongside said rails at each end of said switch and mate points, spindles rotatably contained in said brackets, means for actuating said spindles, levers formed with said spindles, bars slidably engaged alongside said rails, connections between said levers and said bars whereby they are moved in unison, a cross bar extending between switch point and mate point, pins set in the extreme end of said cross bar, and angular cam faces formed upon the inner ends of said slidable bars adapted to actuate said cross bar.

1,336,115. CARD INDEX AND DISPLAY DEVICE. EDWARD F. WILSON, Webster Groves, Mo. Filed June 17, 1918. Serial No. 240,414. 5 Claims. (Cl. 129—16.7.)

4. A device of the character described, comprising a frame one side of which is composed of transparent material folded to provide two side portions adapted to receive between them the marginal edge of a card containing written or printed matter on both sides thereof which may be viewed through said transparent material while the card



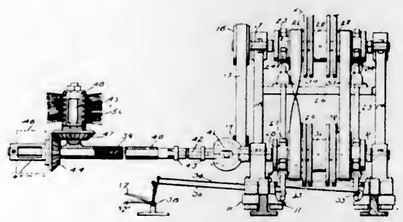
is in position; and means on the frame for engaging the opposite edge of the card to prevent lateral or longitudinal movement of the card.

1,336,116. DETACHABLE LIGHT FOR VEHICLE-CURTAINS. DANIEL M. WINANS, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y., a Corporation of New York. Filed Dec. 1, 1917. Serial No. 204,945. 1 Claim. (Cl. 296—145.)



Means for securing detachable lights to vehicle curtains comprising rings which are arched in cross-sectional shape, nuts carried by one of said rings, said nuts having raised central portions provided with screw threaded openings and with notched angular end portions bearing against the ring, the said ring having ears received in the arched portions and holding the nuts within the ring, the other ring being provided with openings, and screws having tapered ends, said screws being received in the openings in the last-named ring and passing through the curtain and engaged with the screw threaded openings in the nuts, the screws being located beyond the edge of the light and holding it against vertical displacement, said light and curtain being clamped between the rings.

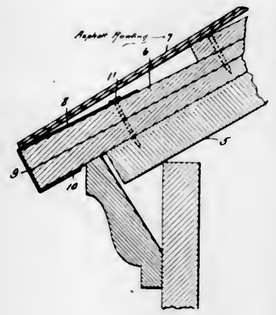
1,336,117. DRIVING MECHANISM FOR BRUSHING AND POLISHING APPARATUS. WLADYSLAW WLODKOWSKI, Lynn, Mass. Original application filed Feb. 8, 1919, Serial No. 275,756. Divided and this application filed Aug. 25, 1919. Serial No. 319,549. 2 Claims. (Cl. 74—21.)



1. Driving mechanism for shoe cleaning and polishing machines and the like, comprising a driving shaft, an intermediate clutch hub fixed thereto, gearing elements equipped with clutch faces loosely fitted on said shaft at each side of said clutch hub, a driven shaft having connections to operate a brush head or the like, a clutch hub

on said driven shaft, gearing elements equipped with clutch faces loosely mounted on said driven shaft on each side of said clutch hub connected to the respective ones of the first named gearing elements, direct and reversing connections respectively therefor, and means for shifting either of said connected pairs of gearing elements into operative engagement with their respective clutch hubs at will.

1,336,118. ROOF FOR BUILDINGS. RAY WRIGHT, Jackson, Miss. Filed July 26, 1919. Serial No. 313,502. 1 Claim. (Cl. 108—17.)



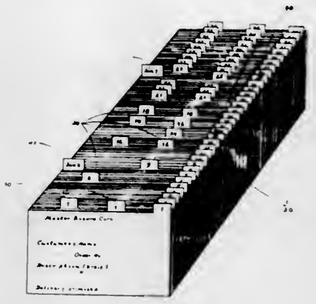
In a roofing construction for wooden buildings, sheathing, shingles secured to the sheathing, said shingles extending beyond one end of the sheathing, a metallic plate having a downwardly and inwardly extending flange adapted to embrace the extended ends of the shingles, means for securing the plate to the shingles, and layers of asphalt roofing material secured to the shingles and plate, the asphalt roofing material being arranged in spaced relation with the shingles.

1,336,119. STYLOGRAPHIC FOUNTAIN-PEN. JÖRGEN THORVALD ANDERSEN, Gundstrup, near Otterup, Island of Funen, Denmark. Filed Apr. 26, 1919. Serial No. 292,969. 4 Claims. (Cl. 120—44.)



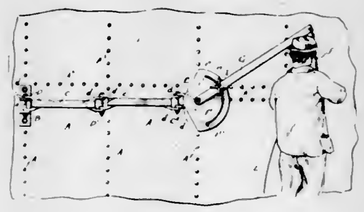
1. A fluid writing device comprising a hollow elongated barrel terminating at one end in an apertured writing point and provided at its other end with an apertured head, and a loosely packed capillary porous mass substantially filling the interior of said barrel and saturated with writing fluid, the fluid supply within the mass being normally retained by capillary attraction without offering any free liquid level or surface and the fluid being withdrawn from said mass by the capillary attraction exerted by the paper when the pen is in use.

1,336,120. OPERATION-CONTROL RECORD. HARRY A. ARTHUR, Philadelphia, Pa. Filed Apr. 21, 1919. Serial No. 291,701. 6 Claims. (Cl. 129—16.5.)



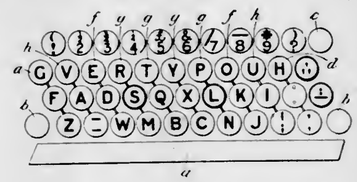
1. An operation-control card record file comprising a master card file in which the cards are sequentially numbered, dummy cards associated with said master cards and being correspondingly numbered and cards adapted to be substituted for the said dummy cards for indicating when work to which the said third mentioned cards relate has been completed.

1,336,121. RIVET-GUN RIG. WILLIAM B. ASHE, Hampton, and FREDERICK C. BIVINS, Newport News, Va. Filed Apr. 10, 1919. Serial No. 289,056. 6 Claims. (Cl. 78—50.)



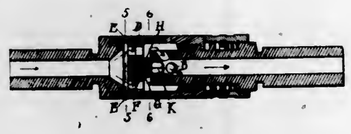
1. A pneumatic tool rig comprising a supporting member, a sectional crane member pivotally supported thereon to swing in a plane perpendicular to the support, a tool carrying arm member pivotally supported at the free end of said sectional crane member to swing in a plane perpendicular to the plane path of the sectional crane, and flexible suspension means at the face end of said arm adapted for connection with the pneumatic tool.

1,336,122. KEYBOARD FOR TYPEWRITERS. FRAMERZ MEHERVANJI MUNCHERJI BANAJI, Bombay, India. Filed Feb. 16, 1918. Serial No. 217,552. 3 Claims. (Cl. 197—100.)



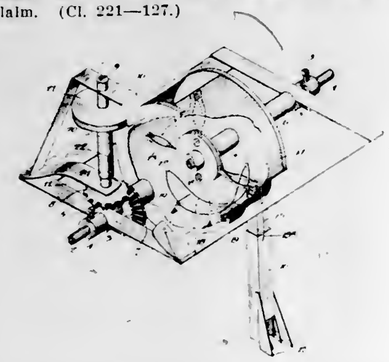
1. In a typewriter key-board the use of four keys (. ; , and —) placed near the ends of the two lower rows of keys and each containing two like marks to be used irrespective of the position of the shift key.

1,336,123. HOSE AND PIPE COUPLING. CHARLES W. BARNES, Puyallup, Wash., assignor of one-fourth to B. W. Coiner, Tacoma, Wash. Filed Aug. 17, 1918. Serial No. 250,398. 2 Claims. (Cl. 284—9.)



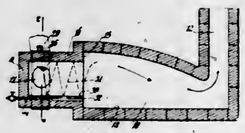
1. A pipe coupling of the class described embodying a coupling section, a transverse partition therein provided with apertures, a disk valve having openings therein rotatably mounted upon said partition, a stem carried by the valve extending through an opening in said partition and having flattened sides at its projecting end and a pipe adapted to extend into said section with the end thereof formed to engage the end of said stem to rotate the valve during coupling and uncoupling movement of the pipe to the section.

1,336,124. PLANTER. WILLIAM W. BARRETT, Lewiston, Idaho. Filed June 2, 1919. Serial No. 301,174. 1 Claim. (Cl. 221—127.)



A planter comprising a relatively stationary drum for containing seed, a discharge chute at one side thereof and opening thereinto, a wheel rotatable within the drum and carrying a plurality of gripping arms, means for moving the arms apart as they approach the entrance to the chute, and a member extending into the drum and having an angular end disposed above the entrance to the chute in the path of travel of the arms whereby to dislodge seeds held by the arms.

1,336,125. MEANS FOR FEEDING FUEL TO COMBUSTION-CHAMBERS. VIRGINIUS Z CARACRISTI, Bronxville, N. Y., assignor to Locomotive Pulverized Fuel Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1915. Serial No. 4,691. 5 Claims. (Cl 110—28.)



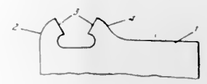
1. In a furnace, a main chamber and a preliminary combustion chamber having an open end opening directly into the main chamber, said preliminary combustion chamber extending horizontally from the main chamber with its remote end closed, a nozzle opening into said combustion chamber and inclined both laterally and longitudinally to the axis of said combustion chamber, and means for supplying said nozzle at a point spaced from its mouth with fuel and with a current of air, the said lateral angle of said nozzle being so large that the said current of air and the fuel are caused to impinge upon the said wall along the length of the combustion chamber in a helical path tangentially to the wall before the combustion of said fuel has been completed.

1,336,126. CAN-OPENER. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1919. Serial No. 306,817. 1 Claim. (Cl. 30—3.)



A can-opener in the form of a lever of the first-class, comprising a handle and a blade having a transversely curved portion provided with a forwardly and upwardly presented cutting edge and provided with a penetrating point having a blunt upper wall, said blade having at its lower edge-portion a furcation which is bent laterally from the plane of the blade and then bent back and extended across the lower edge of the blade back of the cutting portion to afford a transverse fulcrum member adapted to bear on the can.

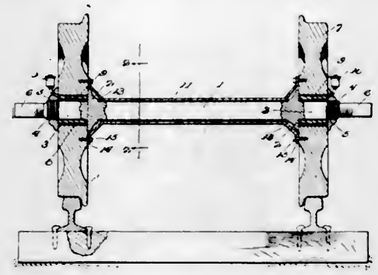
1,336,127. TERMINAL MEANS FOR BATTERY-PLATES. CAMPBELL C. CARPENTER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 13, 1917. Serial No. 185,854. 5 Claims. (Cl. 204—29.)



1. A battery plate having a pair of terminal lugs extending from the upper edge of said plate and a terminal strap extending normally of said plate, said lugs being integrally united to the sides of said strap.

1,336,128. CAR-WHEEL. ANDREW L. CARROLL, St. Louis, Mo., assignor of one-sixth to Oliver Rowlett, one-sixth to Jordan W. Chambers, and one-sixth to J. W. Bronaugh, St. Louis, Mo. Filed Dec. 31, 1919. Serial No. 348,549. 2 Claims. (Cl. 295—44.)

1. The combination of an axle having circular portions near its ends and angular extremities, of wheels fitted around the circular portions of the axle, rollers disposed around the axle and within the bore of the wheels, fixed



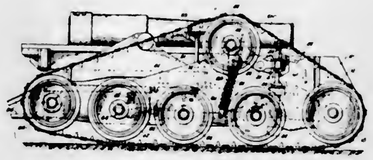
flanges on the axle bearing against the inner faces of the wheels, and removable flanges mounted on the axle and bearing against the outer sides of the wheels.

1,336,129. CLIP. CHARLES W. CASS, Salem, and WILLIAM L. BAXTER, Beverly, Mass. Filed May 19, 1919. Serial No. 298,147. 8 Claims. (Cl. 24—258.)



6. A clip comprising relatively movable jaws, a spur on one side for attaching the clip to a support and means including a movable handle on the other side for closing said jaws, the clip having a finger opening arranged to permit said handle to be operated by the thumb when the clip is supported by a finger of the same hand.

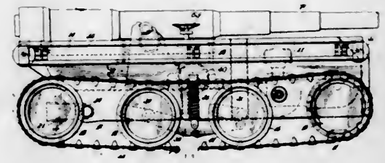
1,336,130. TRACTOR. WALTER CHRISTIE, Weehawken, N. J. Filed Oct. 23, 1918. Serial No. 259,310. 21 Claims. (Cl. 180—9.)



1. In a vehicle, a frame, sets of load carrying road wheels including steering wheels adapted to move angularly about vertical pivots, said wheels having peripheral treads to run on the ground and to support the weight of the vehicle, and removable creeper chains passing under all of the wheels of a set, respectively, said wheels serving to carry the weight of the vehicle when said chains are so applied.

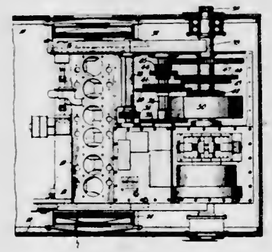
336,131. TRACTOR. WALTER CHRISTIE, Weehawken, N. J. Filed Aug. 6, 1919. Serial No. 315,777. 15 Claims. (Cl. 89—40.)

1. In a tractor, a frame, a motor, driven wheels near one end of the frame connected with the motor, flexibly supported wheels near the other end of the frame, all of said wheels having peripheral treads to run on the ground and support the weight of the tractor, removable tractor chains passing under the wheels at opposite ends of the frame, respectively, said wheels serving to carry the weight



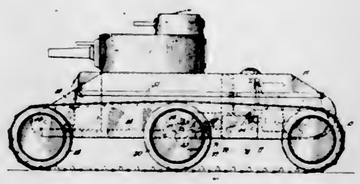
of the tractor when said chains are so applied, and means to connect the chains with the motor for propulsion of the tractor.

1,336,132. TRANSMISSION-GEARING. WALTER CHRISTIE, Weehawken, N. J. Filed Feb. 25, 1920. Serial No. 361,201. 3 Claims. (Cl. 180—9.)



1. For a tractor, an engine, driving gears mounted adjacent to opposite ends of the crank shaft thereof, independent clutch members operable selectively to engage the respective gears with the opposite ends of the crank shaft, respectively, selective type change-speed transmissions connected operatively to said gears and controllable by said clutch members, respectively, and oppositely disposed tractor wheels connected operatively to said transmissions, respectively.

1,336,133. TRACTOR. WALTER CHRISTIE, Weehawken, N. J. Filed Feb. 25, 1920. Serial No. 361,202. 10 Claims. (Cl. 180—9.)

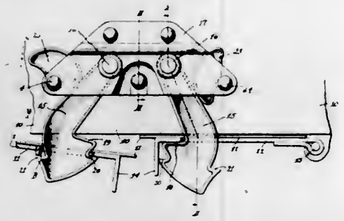


2. A tractor comprising a frame, wheels near the ends thereof, wheels of larger diameter intermediate said end wheels, tractor chains around the wheels, and means for depressing the intermediate wheels.

1,336,134. RAILWAY-CAR. WILLIAM F. CREMEAN, Wilkes-Barre, Pa. Filed May 3, 1919. Serial No. 294,369. 6 Claims. (Cl. 105—308.)

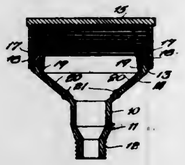
4. A railway car having a movable door, a hook pivoted to the car and adapted to engage said door and to hold the same in closed position, a cam also pivoted to the car

and adapted to hold the said hook in engaged relationship with the door, the said hook being provided with an aux-
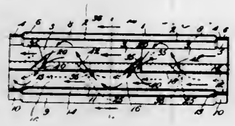


iliary ledge and a projecting portion by means of which the door may be raised from a partly closed to a fully closed position.

1,336,135. GREASE-CUP. CLIFFORD COATES HAMILTON and JOSEPH HUTCHINSON, Gull Lake, Saskatchewan, Canada. Filed Sept. 20, 1919. Serial No. 325,083. 3 Claims. (Cl. 184—48.)



1. A grease cup comprising in combination a male member, and a female member, said members having screw threaded engagement with each other, the threaded portion of the male member having radial gaps in its upper wall completely interrupting the thread at such point, externally threaded radial bosses resiliently mounted to project outwardly through said gaps, the thread of said bosses coinciding in pitch to the pitch of threaded portion of the male member, and bridging said gaps, said bosses adapted to threadedly engage the inner wall of the female member when the latter is in position on the male member and prevent retrograde rotation of the female member by frictional contact therewith.

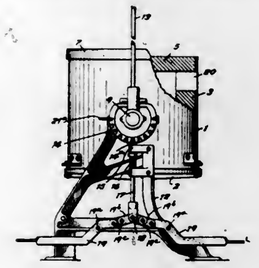
1,336,136. RADIATOR UNIT. HERBERT CHAMPION HARRISON, Lockport, N. Y., assignor to Harrison Radiator Corporation, Lockport, N. Y., a Corporation of New York. Filed June 11, 1917. Serial No. 174,043. Renewed Feb. 4, 1920. Serial No. 356,123. 8 Claims. (Cl. 257—130.)



1. A corrugated division plate for radiators provided with perforations and projections having inclined guiding and centering surfaces, and said projections also provided with air deflecting surfaces associated with said perforations, substantially as described.

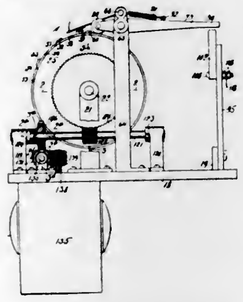
1,336,137. NON-CRUCIBLE FURNACE. JOSEPH E. HAUSFELD, Cincinnati, Ohio. Filed Dec. 26, 1917. Serial No. 208,776. 6 Claims. (Cl. 263—33.)

3. A non-crucible furnace comprising a body, means for tiltably mounting the body, a fuel inlet in the body, means for supplying liquid or gaseous fuel thereto, said body having a top adapted to receive a charge of metals, said



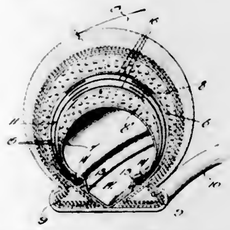
top having an upwardly extending rim around it to form a shallow receptacle, and an orifice in said top, for the purpose described.

1,336,138. AUTOMATIC SWITCH-OPERATING DEVICE FOR AEROPLANE MECHANISMS. ERNEST E. G. HEDENSTROM, Brooklyn, N. Y., assignor to Springfield Motors Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 9, 1918. Serial No. 227,559. 5 Claims. (Cl. 200—8.)



1. In a switch operating device the combination of a drum having a scale on its peripheral surface, a cam ring on the drum and in frictional engagement therewith, the said cam ring having beveled ends to enable one thereof to be brought in line with a division of said scale, means to rotate the drum and thereby the cam ring, a switch lever pivoted adjacent to the drum, a cam roller journaled in one end of the switch lever and said lever having a switch knife at the other end, the roller located to be actuated by the cam of the cam ring and a switch fork for the knife switch.

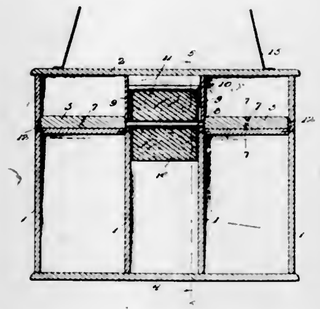
1,336,139. AUTOMOBILE-TIRE. LEO HOFMEISTER, Milwaukee, Wis. Filed Aug. 9, 1919. Serial No. 316,412. 6 Claims. (Cl. 152—10.)



1. An inner casing for a pneumatic tire of the class described having resilient means reinforcing the inner peripheral edges thereof, said resilient means being expansible whereby the inner peripheral edges of said casing are adapted to have snug engagement with the adjacent side wall portions of an outer casing usually employed in connection therewith.

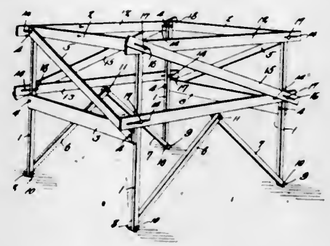
6. An inner casing for a pneumatic tire of the class described including a plurality of alternate layers of fabric and rubber vulcanized together and an inner and outer layer of sponge rubber, said outer layer of sponge rubber being shaped to conform with the curvatures of an outer pneumatic casing, and reinforcing means for the inner peripheral edges of said inner casing consisting of resilient reinforcing cables provided with waves, said inner layer of sponge rubber being adapted to be engaged by an inner tube disposed within the inner casing.

1,336,140. TOILET-PAPER HOLDER. WILLIAM S. HOWARD, Hazlehurst, Miss. Filed Oct. 30, 1919. Serial No. 334,459. 2 Claims. (Cl. 211—31.)



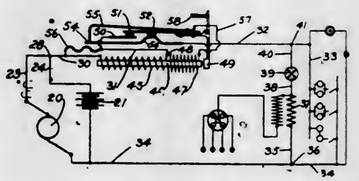
1. As a new article of manufacture, a toilet paper holder consisting of one central and two counterpart side compartments; the central compartment having lateral bearings to receive the ends of the axis of the holder, and antipodal vertical grooves to permit insertion of a superimposed roller and a gravity block, the side compartments having pivoted casings alternately locking and permitting withdrawal of the holder axis, for the purpose herein fully set forth.

1,336,141. SCAFFOLD. WILLIAM D. KELLY, Lewis Run, Pa. Filed July 7, 1919. Serial No. 309,020. 1 Claim. (Cl. 20—86.)



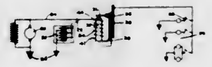
A portable scaffold including rigid end sections, roof engaging members having one of their respective ends pivotally connected to the lower ends of the end sections, the opposite ends of the roof engaging members being pivotally connected together to permit adjustment of the members to various angles, a plurality of horizontal brace members on opposite sides of the scaffold connecting said end members, diagonal members also connecting the corresponding end members, said horizontal members and diagonal members having slots, bolts operating in the slots to secure the roof engaging members in their positions of adjustment, and means operating on one end of each of the bolts for securing the end sections and roof engaging members in various positions of adjustment.

1,336,142. CIRCUIT-BREAKER INDICATING DEVICE. CHARLES F. KETTERING, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Aug. 20, 1914. Serial No. 857,644. 10 Claims. (Cl. 200—90.)



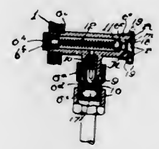
1. In a circuit-breaker indicating device, having main contacts and auxiliary contacts in shunt therewith; means for opening the main contacts upon excessive current flow; and means brought into action by the operation of said first means for extending the opening movement of said main contacts and then opening the auxiliary contacts.

1,336,143. CIRCUIT-BREAKER INDICATING DEVICE. CHARLES F. KETTERING, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed May 29, 1916. Serial No. 100,547. 4 Claims. (Cl. 200—90.)



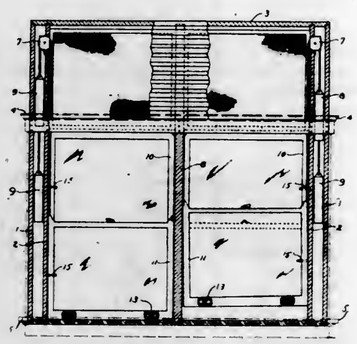
1. In a circuit-breaker indicating device, the combination with a main circuit including a circuit-breaker coil wound upon a core; of a movable element operated by the magnetic effect of said core to intermittently break the main circuit when an abnormal flow of current passes through said circuit-breaker coil; and means excluded from said main circuit for prolonging the magnetic effect of the core after the main circuit is broken by the movable element, whereby the movement of this element to its normal position to close the main circuit connection will be retarded.

1,336,144. AERATING DEVICE FOR PRIMERS FOR INTERNAL-COMBUSTION ENGINES. HENRY KOCOUREK, Chicago, Ill. Original application filed Feb. 21, 1918, Serial No. 218,431. Divided and this application filed Aug. 14, 1918. Serial No. 249,766. 7 Claims. (Cl. 123—180.)



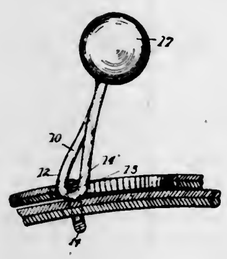
1. A fitting for the purpose indicated having three ways with a common junction point independent of each other up to that junction: a valve in the first way opening toward the junction point and a spring to seat it; a valve in the second way opening toward the junction and a spring to seat it which yields to less pressure than the first spring, the third way being adapted for connection to the chamber in which the discharge is to be made.

1,336,145. POCKET-WINDOW. EDMUND H. LUNKEN, Cincinnati, Ohio. Filed June 17, 1919. Serial No. 304,828. 3 Claims. (Cl. 20—52.1.)



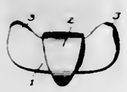
1. In a window, the combination with a frame, of window sashes located on each side in said frame and sash weights for counterbalancing the sashes on the outside only, said sashes having lifts adapted to prevent the operator from applying pressure to the side adjacent the weights in lifting the window.

1,336,146. SHOE FASTENING DEVICE. JOHN MCDONALD, Montreal, Quebec, Canada. Filed Nov. 14, 1919. Serial No. 337,948. 3 Claims. (Cl. 24—40.)



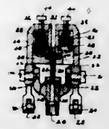
1. The combination with a shoe having upper sections, of a button attached to one of said sections, a buttoning element secured to said button, and means for actuating said buttoning element to connect said upper sections together.

1,336,147. COLLAR-FASTENER. JAMES BENJAMIN MAXFIELD, Spokane, Wash. Filed July 3, 1919. Serial No. 308,354. 1 Claim. (Cl. 24—101.)



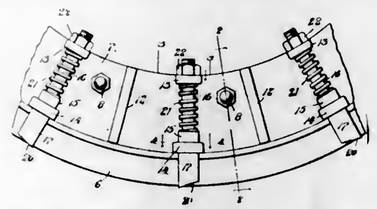
A collar fastener comprising an elongated body portion having a laterally extending tongue at approximately the center of one side, said tongue having a reduced neck connecting it with the body and being bent backwardly upon the body with the neck at an acute angle to the plane of the body and with an abrupt bend between the neck and the body, said tongue being of greater length than the width of the body and gradually tapering from just beyond the neck to the free end.

1,336,148. YARN-SPECK REMOVER. WILLIAM F. MOON, Milwaukee, Wis. Filed Nov. 1, 1919. Serial No. 334,998. 8 Claims. (Cl. 28—20.)



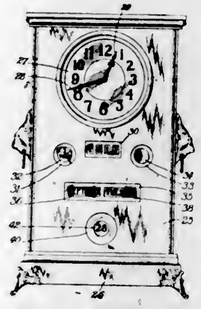
3. In a yarn speck remover, the combination of means for guiding a thread, a bed block for positioning the speck, and a pair of oppositely rocking members for severing the speck from the thread.

1,336,149. NON-SKID WHEEL. ANDREW NELSON and OSCAR H. HINNARD, Chattanooga, Tenn. Filed May 19, 1919. Serial No. 298,308. 1 Claim. (Cl. 21—212.)



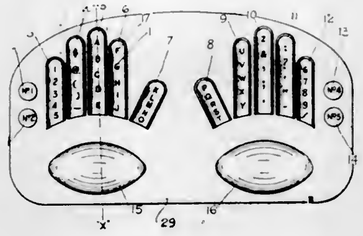
A combined anti-skid and traction attachment for wheels, including a ring-like member adapted for parallel arrangement in proximity to one side of the wheel felly, spaced from said felly and arranged in a plane laterally of the wheel tread, a plurality of spaced radial traction wings formed integral with the outer side of said member and disposed at right-angles to the same and arranged inwardly of said wheel tread, radially disposed apertured lugs integral with the side of the member carrying said wings positioned adjacent the inner and outer edges of said member and between the spaced traction wings, and spring pressed anti-skid members mounted in the apertured lugs having their engaging portions normally disposed adjacent the wheel tread.

1,336,150. CALENDAR-CLOCK. ALOYSIUS NIEMCZURA, Amsterdam, N. Y. Filed Jan. 2, 1918. Serial No. 209,986. 4 Claims. (Cl. 58—4.)



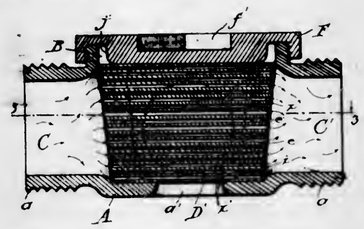
1. In a calendar clock of the character described, the combination of a clock mechanism with a lever adapted to be dropped once every twenty-four hours, of a second lever, a rod connecting both levers, a spring for normally maintaining the second lever in a downward position, a toothed segment on the end of the second lever, a pinion in mesh with said segment, and a fan operated by said pinion for cushioning the descent of said second lever, substantially as described, and for the purpose set forth.

1,336,151. TYPEWRITING-MACHINE. JOHN EDWARD O'CONNOR, San Francisco, Calif. Filed Oct. 1, 1918. Serial No. 256,462. 3 Claims. (Cl. 197—1.)



1. In a typewriting machine the combination of a foot platform with three holes or slots in front of the spaces for the operator's feet and one hole or slot back of the spaces for the operator's feet, the fixed pulley underneath the platform and between the two slots in front of and nearest the toe, the farther downward projecting fixed pulley underneath the platform and under the outermost hole or slot in front of the operator's feet, in conjunction with a strap or cord attached to a typewriter shift key or shift lever passing down through the said middle slot in the foot platform, thence through the fixed pulley underneath the platform—said pulley being placed between the two slots aforesaid—thence and up and through the slot or hole in front of and nearest the front part of the operator's foot, to which it is adapted to be attached, substantially as described.

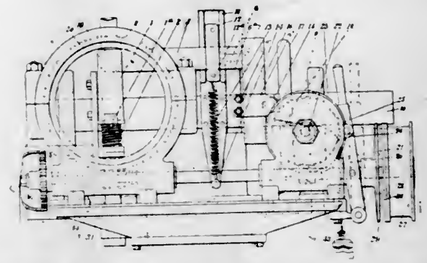
1,336,152. FUEL-HEATER FOR INTERNAL-COMBUSTION ENGINES. PATRICK F. O'SHAUGHNESSY, Brooklyn, N. Y. Filed Apr. 26, 1917. Serial No. 164,703. 2 Claims. (Cl. 257—241.)



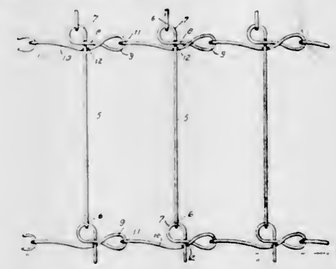
1. A fuel heater and vaporizer for internal combustion engines embodying a casing provided with a chamber, a heating element positioned within said chamber and embodying a plurality of superimposed metallic plates, marginal strips positioned between the successive plates to space them apart and form flues therebetween, the alternate strips extending in the same direction and the intermediate strips at right angles thereto, whereby two sets of flues are formed, one of which sets extends in one direction and the other of which extends at right angles thereto, a screw cap on the casing for forcing the heating element to a seat therein, inlet and outlet ducts communicating with one set of flues while conveying waste products of combustion of an engine through said flues to raise the temperature of the heating element and inlet and outlet ducts communicating with the other set of flues for passing engine fuel therethrough, whereby the fuel is heated and vaporized during its passage to the heating element.

1,336,153. PISTON-RING-HAMMERING MACHINE. WILLIAM ARTHUR OUBRIDGE, Coventry, England. Filed Nov. 20, 1918. Serial No. 263,263. 7 Claims. (Cl. 78—26.)

1. A piston ring hammering machine comprising in combination, a hammer-head, a hammer-helve connected thereto at one end and pivoted to a relatively stationary part of the machine at its other end, means for holding a piston-ring in position for being hammered by said hammer-head, a loading means for said hammer-helve, means for varying the position of said loading means along said hammer-helve and means for reciprocating said hammer-head substantially as described.



1,336,154. WIRE FABRIC. WILBER J. PINE, Oshkosh, Wis. Filed June 18, 1917. Serial No. 175,274. 8 Claims. (Cl. 245—5.)



4. A wire fabric including longitudinally connected series of units, each unit comprising integrally a shank portion provided with connecting eyes at each end and a transverse portion crossing the shank and having an eye on each side of said shank, said eyes being adapted to engage with similar eyes in adjacent units.

1,336,155. TOOL-HOLDER. LEROY Q. PRESBY, Melrose, Mass., assignor to Clarence S. Luitwieler, Newton, Mass., and Frank W. Merrick, Boston, Mass. Filed Mar. 14, 1919. Serial No. 282,604. 9 Claims. (Cl. 29—98.)

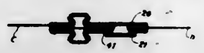


1. A holder comprising two clamping elements or jaws having diagonally-opposite entrant angles constituting seats adapted to receive corresponding portions of a tool, and means for applying pressure in a direction at right-angles to opposite seat-faces which are parallel with each other, and having means for guiding said clamping elements to move relative to each other in an oblique direction paralleling the diagonal which bisects the opposite entrant angles.

1,336,156. FASTENING DEVICE. GRACE DAILEY PRESTON, Spartanburg, S. C., assignor of two-fifths to Arthur G. Smith, Elyria, Ohio. Filed Apr. 6, 1918. Serial No. 227,002. 10 Claims. (Cl. 24—83.)

4. In a device of the class described, the combination of a pair of fastening members, each provided with means

for removably connecting it to a garment edge without piercing or otherwise injuring the material of the garment



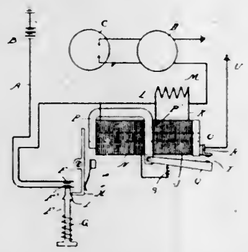
and complementary fastening devices carried by said members for detachably connecting said members and garment edges together.

1,336,157. BUTT-GAGE. JUDSON W. READ, Denver, Colo. Filed May 21, 1919. Serial No. 298,583. 1 Claim. (Cl. 33—197.)



A hinge gage comprising two sections having end portions of the full sectional area of the completed gage and reduced portions of approximately half the thickness of the completed gage and adapted for sliding contact, gaging members encircling and maintaining the relative positions of the reduced portions of said sections, set screws carried by said members to fix the sections in adjusted positions, marking elements carried by the members, and a gage plate secured to and projecting beyond the surface of the end of the gage.

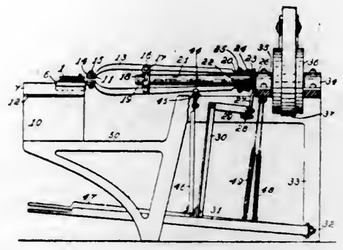
1,336,158. AUTOMATIC CIRCUIT-OPENING SWITCH FOR IGNITION SYSTEMS. GORDON A. REAM, Detroit, Mich. Filed Apr. 18, 1917. Serial No. 162,830. 7 Claims. (Cl 175—294.)



7. The combination with an electric circuit, of a switch in said circuit, a latch member for maintaining said switch closed, a pulsating electro-magnetic motor in said circuit for delivering a succession of blows to actuate said latch member.

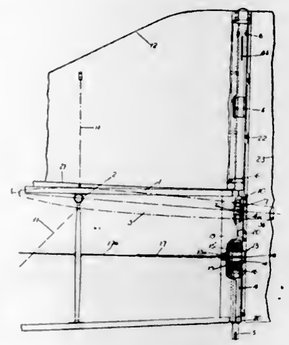
1,336,159. WIRE-TWISTING MACHINE. REYNOLD J. RICE, Waterloo, Iowa. Filed May 8, 1919. Serial No. 295,749. 4 Claims. (Cl. 140—149.)

1. In mechanism of the character described, rotatable clamping-means, a slide-way alined therewith, and a wire-holding device slidable on said slideway, said device being formed of a triangular body of less dimensions than and



positioned between spaced plates, one plate being sectional with an apical section removably mounted on said body.

1,336,160. APPARATUS FOR TILTING PLANES ON AERIAL CRAFT. ALLIOTT VERDON ROE, Hamble, Southampton, England. Filed May 12, 1917. Serial No. 168,227. 5 Claims. (Cl. 244—29.)



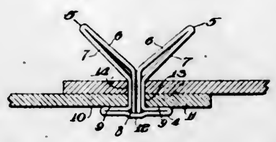
1. In apparatus for tilting tail planes on aerial craft, a reciprocating bracing post stayed to said planes and guided within a casing disposed at the junctions of the upper and lower longerons at the rear of the fuselage, and providing a pivotal support for the rudder, means for reciprocating said bracing post comprising a threaded portion on said post and a nut fixed against axial displacement engaging said threaded portion, and operable rotatively by means connecting the said nut to control means adjacent the seat of the pilot.

1,336,161. STABILIZING-PLANE ON AERIAL CRAFT. ALLIOTT VERDON ROE, Bursledon, near Southampton, and REGINALD JOHN PARROTT, Hedge End, near Southampton, England. Filed Jan. 4, 1919. Serial No. 269,654. 4 Claims. (Cl. 244—29.)



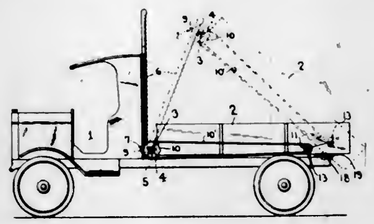
1. In a device of the class described, the combination of a hinged stabilizing plane, a separate auxiliary balancing plane, and a rigid stay connecting them together in such a way that they lie substantially on opposite sides of a common axis of rotation.

1,336,162. CLENCH OR EXPANSION NAIL. EDWIN C. ROYER and BERNARD J. BOYLE, Philadelphia, Pa. Filed Sept. 20, 1919. Serial No. 325,113. 3 Claims. (Cl. 85—3.)



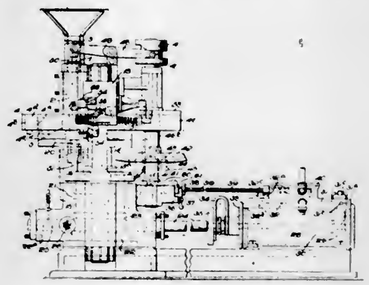
3. A nail of the character described including a looped head and tines projecting therefrom, said tines being folded and having their end portions extending into said looped head, said looped head having a recess in alinement with said end portions and into which the ends of said end portions extend; substantially as described.

1,336,163. DUMPING MECHANISM FOR TRUCKS. AUGUST C. SETTLAGE, New Bremen, Ohio. Filed Jan. 27, 1916. Serial No. 74,635. 2 Claims. (Cl. 298—19.)



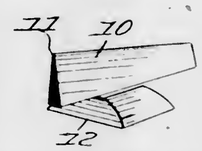
1. In a mechanism of the character described, the combination with a suitable frame, a rockable body pivoted upon the frame, two sprockets suitably mounted upon the frame adjacent to the rear end of the body and having a movement in common with each other, a shaft mounted near the front of the body, and carrying a sprocket and a lifting gear, a rack bar pivoted to the frame and in engagement with the lifting gear, a motor mechanism and connections between said mechanism and one of the rear sprockets, whereby both of said sprockets are operated, and connections between the rear and front sprockets for driving the lifting gear, substantially as and for the purpose set forth.

1,336,164. BLOCK-PRESS. WILLIAM H. SHORTELL, West Haven, Conn., assignor to Harlem Contracting Company, New York, N. Y., a Corporation of New York. Original application filed May 21, 1914, Serial No. 840,038. Divided and this application filed Nov. 22, 1918. Serial No. 263,729. 12 Claims. (Cl. 25—63.)



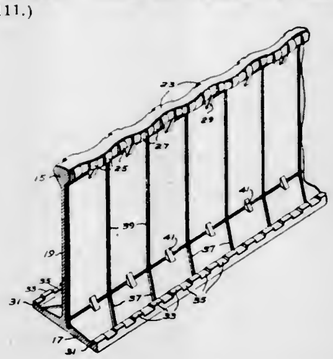
2. A press comprising, in combination, a generally horizontally disposed, rotatable mold table having a plurality of molds therein, each provided with its mold plunger reciprocable in and rotatable with said mold table, a plurality of slideways located intermediate said molds on and below the top of said table, a vertical shaft substantially parallel with the axis of said mold table, said shaft being located substantially at the point of intersection of two planes tangential to a circle drawn through the circumferential extremities of said slideways, an arm or crank on said shaft having a slideway engaging element adapted to engage said slideways successively when said crank is at substantially 90° to the axis of the slideway to be engaged and to leave said slideways when said chank is at substantially 90° to the axis of the slideway to be disengaged, concave, arcuate locking portions in said mold table intermediate said slideways, and an arcuate convex locking element rotating with said shaft and adapted to enter one of said concave, arcuate locking portions at substantially the same time that said slideway-engaging element disengages from each slideway, whereby intermittent, partial rotation may be imparted to said mold table with gradual and regular increase and decrease of speed while said mold table is held against undesired rotation during its periods of rest.

1,336,165. GUN-SIGHT. CARL SKOPAL, Lethbridge, Alberta, Canada. Filed Aug. 3, 1918. Serial No. 248,205. 1 Claim. (Cl. 33—47.)



The combination with a gun barrel, of a base plate seated thereon adjacent the muzzle end of the barrel, and a fore sight consisting of a blade tapering upwardly and rearwardly from the front end to present a gradually reduced surface at the rear end, the blade being carried by the base plate and provided with a durable surface coating of a dull black color as and for the purpose herein specified.

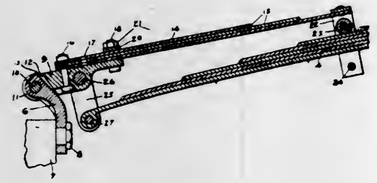
1,336,166. CONCRETE-REINFORCING MEANS. EDWARD SMULSKI, Hastings-upon-Hudson, N. Y. Filed Oct. 31, 1917. Serial No. 199,544. 9 Claims. (Cl. 72—111.)



1. A beam for reinforcing concrete comprising a compression reinforcing head extending longitudinally of the beam, a tension reinforcing flange extending longitudinally of the beam, a shear reinforcing web interposed between and connecting said head and flange, a series of anchoring projections integral with said head for locking said head to the portion of the concrete under com-

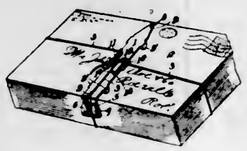
pression, and projections along the length of the beam for locking the concrete against shrinkage away from the beam, that the projections of the compression reinforcing head may be maintained effectively interlocked with the concrete.

1,336,167. SHOCK-ABSORBING SPRING. FREDERICK L. SPRING, Indianapolis, Ind. Filed Nov. 25, 1918. Serial No. 264,074. 2 Claims. (Cl. 267—19.)



1. The combination with the body spring of a vehicle, and a bracket secured to some part of the vehicle near the end of the spring, of a shock absorber having an anchor block pivoted at one end of the bracket, shackle plates pivotally connected with the end of the body spring and extending up on both sides of the anchor block, a bolt extending through the shackle plates and the anchor between the ends of the latter, an auxiliary leaf spring, means for bolting said auxiliary leaf spring to the anchor block at a point outside the connection of the shackle plates with said anchor block, means for securing the inner end of said anchor block to said auxiliary leaf spring, and means at the inner end of the auxiliary leaf spring which rests and travels on the body spring, substantially as set forth.

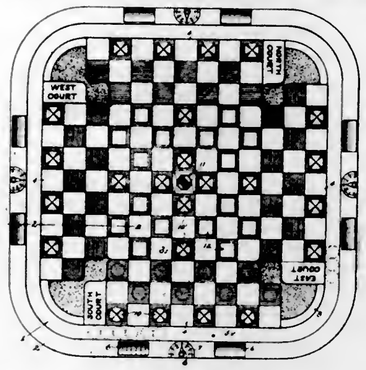
1,336,168. PARCEL-BINDER. ARTHUR LEROY STANSELL, Nashville, Tenn. Filed Feb. 20, 1919. Serial No. 278,167. 7 Claims. (Cl. 24—18.)



3. A binder of the character described, comprising an elongated plate having a right angle bent portion at one end having a guideway therein, a cord secured to the opposite end of the plate, the plate having a slot extending into the right angle bent portion, two oppositely arranged cleats carried by the plate intermediate its ends and having gripping fingers carried by the outer edges, the finger of one cleat extending in the opposite direction from that of the finger of the other cleat.

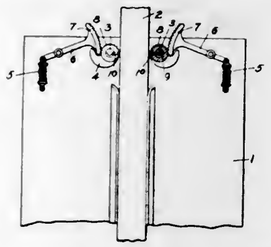
1,336,169. GAME-BOARD. THOMAS W. STEWART, Kalamazoo, Mich. Filed Aug. 14, 1916. Serial No. 114,697. 2 Claims. (Cl. 46—64.)

1. A game board comprising a square central court composed of forty-nine small squares alternately distinguished by color and a substantially rectangular court adjacent each side of the central court composed of twenty-three small squares alternately distinguished, the central court squares having four distinguishable colors dividing the central court into four triangles each having an inner side of a court as its base and the center of the center court as its apex, and the alternate squares of the central court having distinguishable marks colored to correspond to the colored squares of the respective side courts, and the alternate colored squares at the edges of



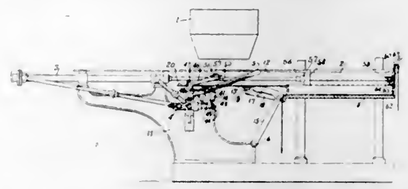
the side courts having distinguishing marks colored to correspond to the colored squares of the adjacent triangle of the central court.

1,336,170. SAFETY DEVICE FOR ELEVATORS. JOHN RYAN STROUD, Scenery Hill, Pa. Filed Oct. 25, 1919. Serial No. 333,330. 6 Claims. (Cl. 187—87.)



1. A safety device for elevators including, in combination with a traveling car hung by a cable, a post extending adjacent the car and in the direction of car travel, two shafts borne by said car and rotatable in suitable bearings, means operated on the parting of the car-sustaining cable for turning said shafts, a pair of post-engaging cams borne one by each of said shafts and capable of limited rotation thereon, and means for rotating each cam upon its shaft independently of the other, substantially as described.

1,336,171. MEANS FOR FORMING OIL-CAKES. RUSSELL A. TRACE, Dayton, Ohio, assignor to Buckeye Iron and Brass Works, Dayton, Ohio, a Corporation of Ohio. Original application filed July 30, 1917, Serial No. 183,430. Divided and this application filed Jan. 7, 1918. Serial No. 210,744. 16 Claims. (Cl. 100—51.)

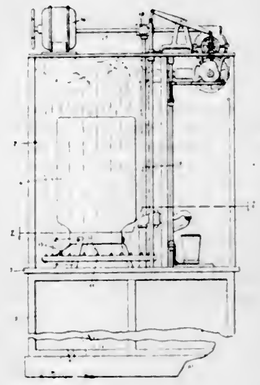


1. In a cake former, the combination, with means for dumping a predetermined quantity of meal, of a carrier

therefor, a cloth on said carrier adapted to receive said meal, a charge box for transporting said meal to said cloth in the mold box of a press, and a cloth holder for drawing said cloth over the face of said meal.

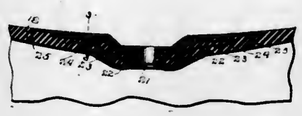
15. In a cake former, the combination, with means to admit a predetermined quantity of meal from a hopper onto a conveyer, a seal for said hopper acting to prevent further exit of the meal, a charge box to convey said meal onto a cloth in a mold box, a cloth smoother acting to spread the cloth in the charge box in the outward movement of the conveyer, and a cloth holder acting to fold said cloth over the top of said meal on the return of said conveyer.

1,336,172. COOLING MEANS FOR LIQUID-DISPENSING DEVICES. CHARLES A. TRIPP, Wilmington, Del., assignor to Holcomb and Hoke M'f'g Co., Indianapolis, Ind., a Corporation. Original application filed Oct. 22, 1917, Serial No. 197,854. Divided and this application filed Jan. 24, 1919. Serial No. 272,926. 9 Claims. (Cl. 62—143.)



2. A cooling means for liquid dispensing devices, including a liquid container, a tank adapted to contain a cooling medium, means to support the container above said tank, a spraying ring surrounding said container, nozzles on said spraying ring, and means to force the cooling medium through said nozzles and discharge same in jets over said container.

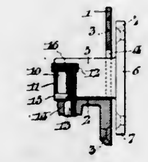
1,336,173. INNER TUBE FOR PNEUMATIC TIRES. JOHN J. VOORHEES, Jr., Jersey City, N. J., assignor, by mesne assignments, to U. S. Compression Inner Tube Company, Tulsa, Okla., a Corporation of Delaware. Filed May 18, 1917. Serial No. 169,522. 10 Claims. (Cl. 152—13.)



1. An inner tube for pneumatic tires, having its valve carrying portion off-set from the remainder of the tube.

9. An inner tube for pneumatic tires having a valve section provided with a plurality of reinforcing members embedded entirely within the main body of the tube, and terminating at different points, in the length thereof, the number of reinforcing members decreasing at cross sections taken at points successively from the center of the valve section and in the length of the tube.

1,336,174. CONCEALED OR INVISIBLE BUTT-HINGE. JOHN HOWARD WAY, Philadelphia, Pa. Filed Sept. 23, 1919. Serial No. 325,619. 2 Claims. (Cl. 16—5.)



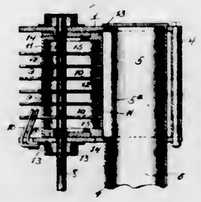
2. In a hinge, the combination of fixed and movable hinge members each having a hole therein; a fulcrum member having a pintle portion pivotally engaged in the hole in one of said hinge members, a pin portion eccentric to said pintle portion rotatable for adjustment in and extending through the other of said hinge members, and screw threaded on its projecting end, and an intermediate enlarged collar portion interposed between said hinge members, abutting against the one containing the pin and bearing against the other in their relative movement, and a nut on the projecting threaded end of the pin member coacting with said collar to clamp and secure said fulcrum member in adjusted position in the hinge member containing it.

1,336,175. ANTISKID DEVICE. HENRY W. WHITE and AURIN T. SHELDON, Moline, Ill. Filed Dec. 2, 1918. Serial No. 265,004. 5 Claims. (Cl. 152—14.)



1. An anti-skid chain including a series of links to extend transversely across the tire, each link having a web to fit the tire and flanges extending outwardly at an angle from the outer side of the web along the longitudinal edges thereof to provide anti-slipping traction means and to also strengthen the links and take up strains, said flanges providing a continuation of said anti-slipping traction means from one link to another, pivot elements extending through end portions of said flanges, one end of each web extending between the flanges of the companion links, and said flanges having outwardly projecting portions integral with the said ends of the webs embracing said pivot elements.

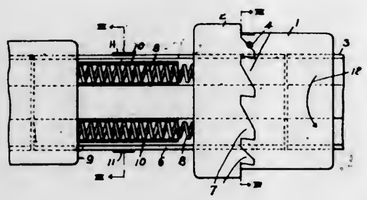
1,336,176. COTTON-PICKER HEAD. CLARK NOBLE WISNER, New Orleans, La., assignor to C. N. Wisner Cotton Picker Co., Incorporated, New Orleans, La. Filed Mar. 8, 1917. Serial No. 153,335. 3 Claims. (Cl. 56—32.)



1. In a picker head, the combination with a frame, and a receiving tube therein, of a single revolving picker

mounted in said frame and having picker pins, and an abutment device secured to the frame and disposed in front of the path of said picker pins and in position to engage a cotton boll while the pins are removing cotton therefrom.

1,336,177. ROLL-DRIVING CONNECTION. JOSEPH WITHERS and HENRY G. O'BRIEN, Warren, Ohio. Filed June 3, 1919. Serial No. 301,490. 4 Claims. (Cl. 80—54.)

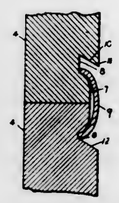


3. In a rolling mill, the combination of a pair of rolls, driving connections for positively driving both of said rolls at different relative speeds, the driving connections of the lower speed roll including a sleeve connected to the end of the lower speed roll, a longitudinally fluted spindle, a sleeve mounted for longitudinal movement upon said spindle, and springs arranged in the flutes of said spindle and yieldingly pressing said second-mentioned sleeve toward said first-mentioned sleeve, the meeting faces of said sleeves being provided with coöperating ratchet teeth whereby the lower speed roll may normally be frictionally driven by the higher speed roll.

1,336,178. CEMENT. GEORGE WITTY, New York, N. Y. Filed Sept. 12, 1919. Serial No. 323,392. 2 Claims. (Cl. 106—35.)

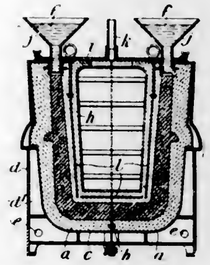
1. A cement composition consisting of clay, finely divided rock, yellow dextrin, barium sulfate, and barite.

1,336,179. WALL STRUCTURE. GEORGE P. YOUMANS, Galesburg, Mich., assignor to Kalamazoo Tank & Silo Company, Kalamazoo, Mich. Filed July 25, 1918. Serial No. 246,673. 11 Claims. (Cl. 217—90.)



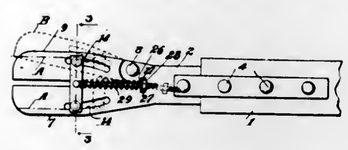
1. A cylindrical wall structure comprising staves laid in half lapping courses with their ends abutting and having transverse central hoop channels and rabbet-like end recesses coacting to form hoop channels alined with said central channels, the channels being deepest at their edges providing beads within the channels, the upper edges of the channels being under cut providing drip ledges, the lower edges of the channels being outwardly inclined, and channel-shaped hoops disposed in said channels to embrace said beads, the depth of the channels being such that the hoops lie within the plane of the surface of the wall.

1,336,180. CASTING OF POTTERY AND OTHER LIKE ARTICLES. BERNARD JAMES ALLEN, Blythe Bridge, and ROBERT YETTON AMES, Gidea Park, England. Filed Aug. 14, 1917. Serial No. 186,127. 7 Claims. (Cl. 25—156.)



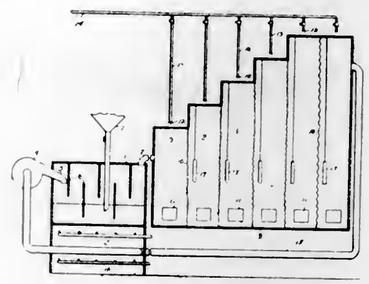
1. An apparatus for casting pottery and the like, comprising an absorbent mold including means for varying the thickness of the pottery cast, and a vacuum chamber arranged on one side of said mold and through which air and moisture are adapted to be drawn.

1,336,181. COUPLING ATTACHMENT. ALBERT J. ANDERSON, La Crosse, Wis. Filed Jan. 20, 1919, Serial No. 272,098. Renewed Nov. 12, 1919. Serial No. 337,619. 6 Claims. (Cl. 213—67.)



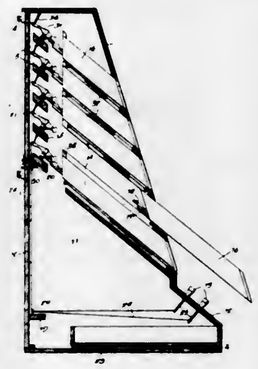
1. In a coupler of the class described, the combination with a body, a primary jaw secured to said body, of an auxiliary jaw pivotally mounted upon said body, said jaws each provided with an elongated curved slot, the outer ends of the slots being in parallelism when the auxiliary jaw is in a closed position with respect to the primary jaw, and means working in said slots and being adapted to open the auxiliary jaw or hold the auxiliary jaw securely closed with respect to the primary jaw when the operating means is in the parallel outer end portions of the slots.

1,336,182. PHTHALIC ANHYDRID. CHESTER E. ANDREWS, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 14, 1919. Serial No. 330,560. 2 Claims. (Cl. 23—24.)



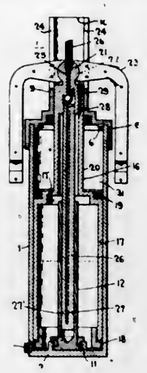
1. As an article of manufacture, phthalic anhydrid being substantially chemically pure and having a melting point above 130 degress, centigrade, (corrected).

1,336,183. MECHANICAL-DRAW-DELIVERY FILING-CABINET. AUGUST T. J. BAHR, Danville, Ill., assignor of one-half to Edgar S. Keller, Danville, Ill. Filed June 30, 1919. Serial No. 307,651. 2 Claims. (Cl. 45—2.)



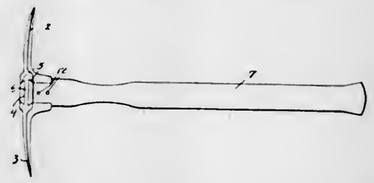
2. In a filing cabinet, a casing having side and front walls and a rear wall provided with hinged sections through which access may be had to the space within the casing, a plurality of drawers having sliding guided movement in the casing and through the front wall, and provided with inner catches, a vertical series of cross strips connected at their ends to the side walls and arranged between the drawers and the rear wall, latches carried by said cross strips to engage the catches of the drawers, a lower cross rail in front of the rear wall having a lengthwise series of guides, a key board at the lower portion of the front wall, a series of drawer controlling keys on the key board, and a series of latch controlling connections between the keys and the said latches, each of said connections being in one continuous piece and extending through its respective guide of the guide rail whereby all connections may be readily exposed through the rear wall and easily traced for purposes of repair and substitution.

1,336,184. SPRING AND SHOCK-ABSORBER. ROWLAND BALL, La Grange, Ill. Filed Jan. 18, 1917, Serial No. 143,109. Renewed Dec. 15, 1919. Serial No. 345,126. 7 Claims. (Cl. 267—64.)



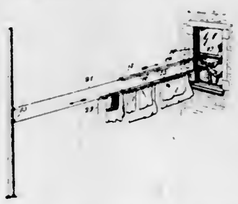
7. A combined spring and shock absorber, comprising a cylinder, attaching means carried by the lower end thereof, a cap for closing the upper end of the cylinder and having an upwardly extending cylindrical member in communication with the cylinder and oppositely arranged slots, a hollow piston in the cylinder having a reduced upper end extending into the cylinder, a yoke loosely mounted upon the upper end of the reduced portion of the piston within the cylindrical member and extending out through the slots for supporting the load, means for maintaining a predetermined fluid pressure in the cylinder below the piston to support the load, and a cushioning means in the space above the piston for retarding the upward movement theerof.

1,336,185. TOOL HEAD AND HANDLE CONSTRUCTION. JOHN T. F. BANTJES, Klerksdorp, Transvaal, South Africa. Filed May 4, 1918. Serial No. 232,674. 2 Claims. (Cl. 287—43.)



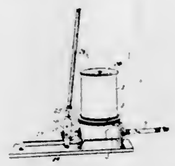
1. In a tool, the combination of a head having dovetailed recesses on opposite sides thereof, a metallic handle with bifurcated end, the two legs of said bifurcated end being shaped to fit snugly within the dovetailed recesses of the head, and means for securing said handle to said head.

1,336,186. CLOTHESLINE-SUPPORT. FRANK BARON, New York, N. Y. Filed July 30, 1918. Serial No. 247,391. 3 Claims. (Cl. 68—3.)



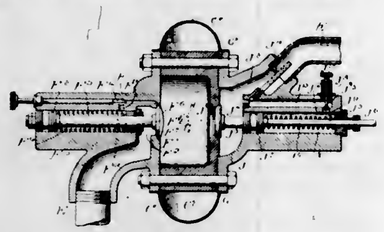
1. In a device of the character described means for holding a plurality of ropes in parallel relation, means whereby said ropes may be operated conjunctively, double sets of pulleys over which said ropes operate, the pulleys of one of said sets being in vertical alinement with the pulleys of the other set, said sets being spaced apart.

1,336,187. SELF-MEASURING LUBRICANT-DELIVERY DEVICE. DAVID W. BARR, Des Moines, Iowa. Filed May 29, 1919. Serial No. 300,614. 4 Claims. (Cl. 221—103.)



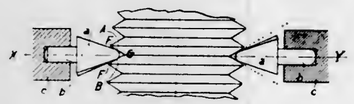
1. In a device of the character described, a receptacle including a horizontal cylinder extending within and along the bottom of the receptacle and opening thereinto, the cylinder provided with a delivery-port, and a valved piston mounted in said receptacle in axial alinement with the cylinder, and movable from without the open inner end thereof into and through the cylinder.

1,336,188. POWER-GENERATING MECHANISM. LESLIE WALLACE BEAVEN, Chicago, Ill. Filed Feb. 8, 1917. Serial No. 147,409. 11 Claims. (Cl. 60—46.)



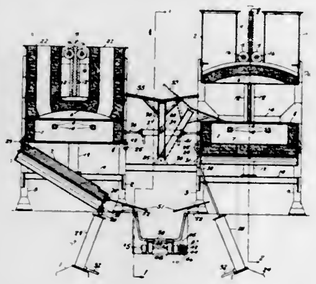
2. In a power generating mechanism, an explosion chamber, inlet and outlet valves therefor, and means actuated by the opening of said inlet valve for injecting fuel into said chamber.

1,336,189. GAGE FOR SCREW-THREADS. ANDRÉ BECHLER, Moutier, Switzerland. Filed Aug. 30, 1917. Serial No. 188,906. 5 Claims. (Cl. 33—199.)



1. A screw gaging device comprising in combination, a pair of adjustable holders and a gaging piece pivotally carried by each holder, the front face of each gaging piece contacting with the screw to be gaged and by such contact being turned to the inclination of the thread.

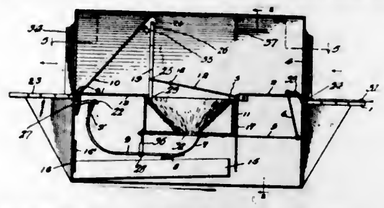
1,336,190. ANNEALING-FURNACE. KNUT BERGLOF, Monessen, Pa. Filed May 22, 1918. Serial No. 235,953. 7 Claims. (Cl. 263—10.)



2. In an annealing furnace, the combination with the side, end-walls and bottom, of a movable top, a rack-bar carried by said top, means for raising and lowering said rack-bar, and pinions supported above the top engaged by said rack-bar.

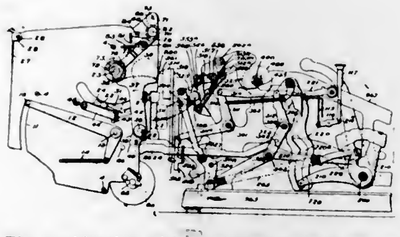
1,336,191. TRAP-NEST. CHARLES W. BOUR, South Bend, Ind. Filed Apr. 5, 1919. Serial No. 287,709. 2 Claims. (Cl. 119—47.)

1. In a trap nest, the combination of an outer casing, a nest box suspended within the casing and substantially distant from both the entrance and exit openings of the nest, platforms leading to said nest box to prevent too quick an operation of the trap mechanism, a door normally resting in open position, means for swinging said door to and retaining it in closed position by the weight of the hen on the nest, a solid exit door, latch means for normally holding said door in closed position, egg operating means for releasing said latch means from the exit door when an egg is laid, and a door interior of the nest and spaced



apart from the entrance door a substantial distance operatively connected to the exit door and arranged to be swung to closed position by the opening of the exit door and to be automatically swung to open position by the closing of said exit door.

1,336,192. ACCOUNTING-MACHINE. AMBROSIUS BRIECHLE, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1916. Serial No. 135,352. 73 Claims. (Cl. 235—58.)



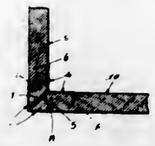
1. The combination with a calculating machine, including accumulating counters; a single set of printing devices; drive mechanism therefor; and a platen; of means operable as an incident to the registration of amounts on the counters, to automatically present envelops singly and successively from a pack to the printing line, and to synchronously feed a work sheet step by step past the printing line, to enable amounts to be listed on the work sheet and printed on the envelops by one type impression only.

5. The combination in a calculating machine, including an accumulator; a single set of printing devices; and drive mechanism therefor; of a self-contained envelop and work sheet feeding mechanism attachable to and detachable from the calculating machine as a unit; and operated from the machine to automatically present envelops successively to the printing line, and to feed a work sheet step by step past the printing line.

31. The combination with a calculating machine having accumulating, and printing devices; of an envelop feeding mechanism, including a storage compartment for the unprinted envelops; a receiving container for the printed envelops, connected by a passage with the storage compartment; a platen interposed in the passage; and means to withdraw the envelops singly and successively from the storage compartment, advance them through the passage past the platen and printing devices, and eject them into the receiving container.

55. The combination with a calculating machine, having printing devices; of an envelop feed and discharge mechanism, including means to advance the envelops singly and successively to the printing devices; and means traveling with the feed means and adapted to wipe over the advanced envelops, and take up a position to contact the rear edges of the envelops to positively eject them in front of the printing devices, as the feed means retires to engage another envelop preparatory to advancing the latter.

1,336,193. FASTENER. EDGAR J. BRYAN, Riverside, Calif., assignor of one-half to Fred Stebler, Riverside, Calif. Filed Oct. 9, 1916. Serial No. 124,441. Renewed Feb. 18, 1920. Serial No. 359,545. 1 Claim. (Cl. 20—92.)



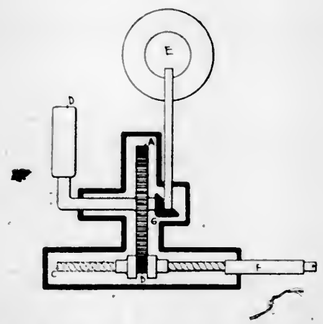
The combination with the walls of a receptacle having oblique meeting end faces, of a flat metal body portion of one thickness interposed between the opposed end faces of the walls, tongues extending alternately in opposite directions from each longitudinal edge of the body portion, the tongues on one edge engaging and penetrating the inner faces of the walls and the tongues on the other edge engaging the outer faces of the walls.

1,336,194. HEEL. JOSEPH BURGER, Brooklyn, N. Y. Filed July 5, 1919. Serial No. 308,872. 5 Claims. (Cl. 36—40.)



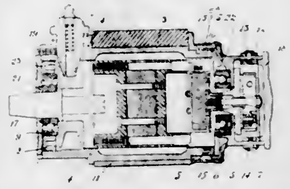
4. A heel for ladies' shoes comprising a metallic shell of the full height of the heel, closed only at the back and open at the top, front and bottom, a filler within said shell and inwardly projecting flanges extending along the upper, front and bottom edges of the shell and overlapping the filler to permanently confine the same within the shell.

1,336,195. RAILROAD-SWITCH STAND. CLYDE MACCANN CARR, Fort Scott, Kans. Filed Nov. 20, 1919. Serial No. 339,356. 3 Claims. (Cl. 246—405.)



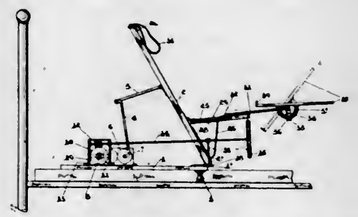
1. In a railway switch stand, the combination of a connecting rod, one end of which is attached to the switch, the other end being of round cross section, and threaded, a round nut upon the threaded end, provided with a toothed gear by which it can be rotated to impart lateral motion to the switch rod, a second toothed gear inter-meshing with the first, and secured upon an operating shaft, journaled on the switch stand, a lever attached to one end of said shaft for rotating the same, a beveled gear wheel upon the other end of said shaft, and a second beveled gear wheel inter-meshing with the first, and arranged to rotate a switch signal.

1,336,196. MAGNETO WITH WATER-TIGHT CASING. GEORGES AURÉLIEN CHAILLIEY, Lyon St. Clair Caluire, France. Filed Mar. 6, 1918. Serial No. 220,731. 6 Claims. (Cl. 171—209.)



4. An ignition magneto comprising in combination: a cylindrical non magnetic frame having a peripheral flange, pole pieces securely held in said cylindrical frame, a cap secured to one end of the frame and a segmental cylindrical magnet fitting over the frame and pole pieces and clamped between the said peripheral flange and the cap.

1,336,197. BED-REST. WILLIAM HENRY CLAMPETT, London, Ontario, Canada. Filed July 21, 1919. Serial No. 312,443. 6 Claims. (Cl. 5—41.)



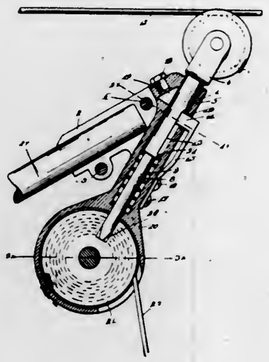
1. A bed rest comprising a base frame; a back rest frame hinged to the front of the base frame; rock arms journaled on suitable supports on the base frame; links each pivotally journaled at one end on the back rest frame and at its other end on one of the rock arms; gearing for actuating the rock arms supported on one side of the base frame; and worm gear for actuating the rock arm actuating gearing including a spindle provided with a hand wheel adjacent the front of the apparatus, said worm gear and spindle being located at one side of the device.

1,336,198. BOOKBINDING. ARTHUR COBB, Cleveland, Ohio, assignor of one-half to Frank B. Houghton, Cleveland, Ohio. Filed Sept. 16, 1918. Serial No. 254,280. 9 Claims. (Cl. 281—29.)



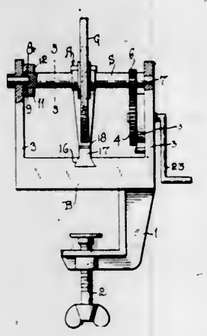
3. The combination of a sewed together paper book, of a metal back having forwardly bent side flanges, hinge lugs having prongs which are inserted into the book from opposite sides thereof and near its back, two sides, and means pivotally connecting said sides, hinge lugs and side flanges of the back.

1,336,199. TROLLEY. EDGAR S. COMBS, Rochester, N. Y. Filed Apr. 8, 1918. Serial No. 227,262. 4 Claims. (Cl. 191—91.)



2. In a trolley the combination of a bracket, a stem mounted to slide in said bracket, a flat-surface on said stem, a spring pressed finger held against said flat surface and radially to said stem to yieldingly hold said stem against turning and return said stem to its original position after turning, a wheel mounted on the end of said stem said flat surface being of considerable length to permit an up and down movement of the stem without interfering with the operation of the finger said finger forming a stop for the sliding movement of said stem.

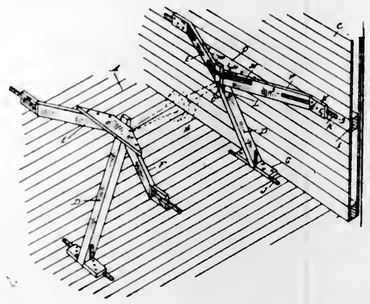
1,336,200. GRINDER. CHARLES M. COOK, Rochester, N. H. Filed May 12, 1919. Serial No. 296,499. 2 Claims. (Cl. 51—7.)



1. A device of the class described comprising a base provided with upstanding members, a shaft rotatably supported by said members, means for rotating the shaft, a grinding element fixed to the shaft, a slide engaged with the base, a work support carried by the slide, and an auxiliary work support removably engaged with the first named work support, the auxiliary work support including an arm inclined downwardly toward the grinding element when said auxiliary work support is in working position upon the first named support.

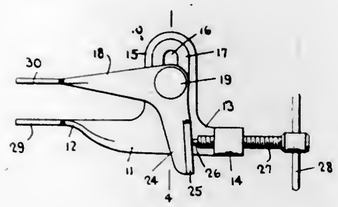
1,336,201. DECKING APPARATUS. ALFRED COPONY, Detroit, Mich., assignor to Copony Auto-Loading Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 27, 1919. Serial No. 279,656. 8 Claims. (Cl. 105—368.)

1. In a decking system for automobiles or the like in freight cars, the combination with a brace member extending diagonally upward from the floor of the car and inwardly with respect to the side thereof, said member



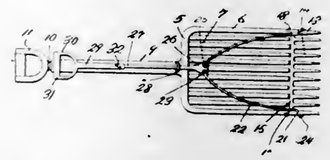
being laterally formed with a shoulder, of a transverse brace member coöperating with the first-mentioned brace member and having an abutment against said shoulder.

1,336,202. VALVE-LIFTER. JOHN CORSI, Detroit, Mich. Filed June 5, 1917. Serial No. 173,011. 4 Claims. (Cl. 29—87.1.)



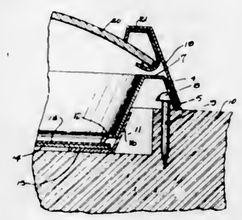
4. A tool of the kind set forth, comprising a body member having two legs arranged at an angle with respect to each other, a fork formed at the free end of one leg, a bell crank lever pivoted to the other leg of the body member and having a fork at its free end, and means carried by the body member and engaging the bell crank lever to effect the separation of the forks for the purpose specified.

1,336,203. CLAM-DIGGER. ARTHUR W. CHAGO, Detroit, Mich. Filed July 23, 1919. Serial No. 312,755. 2 Claims. (Cl. 294—49.)



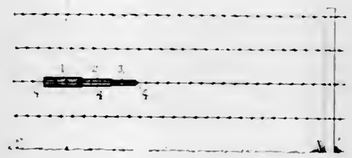
2. A clam digger comprising a forked frame, an extensible handle on said forked frame, a finger guard pivotally connected to the forked frame at the mouth end thereof, a yoke pivotally connected to the finger guard, manually operable means for actuating the yoke, and a guide carried by the extensible handle and slidably supporting the manually operable means, an extensible handle on the manually operable means, said yoke including a pair of rods having diagonal portions, the finger guard being formed with seats for the diagonal portions of said rod and a cross web formed in the finger guard.

1,336,204. DIAL-MAT FASTENING FOR CLOCKS. WALTER L. CROUCH and ARTHUR E. RUST, Bristol, Conn., assignors to The E. Ingraham Company, Inc., Bristol, Conn., a Corporation. Filed Oct. 10, 1919. Serial No. 329,822. 3 Claims. (Cl. 58—127.5.)



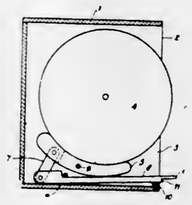
1. The combination with a dial-mat fastening means mounted in the front of a clock, of a deformable dial-mat adapted when deformed under pressure to be engaged with and disengaged from the said fastening means after which it resumes its normal shape, its retention in place after engagement with the said means being due to its resumption of its normal form.

1,336,205. WIRE-FENCE SHIELD. MARION L. DAVIS, Sherman, Tex. Filed Jan. 14, 1920. Serial No. 351,402. 1 Claim. (Cl. 256—3.)



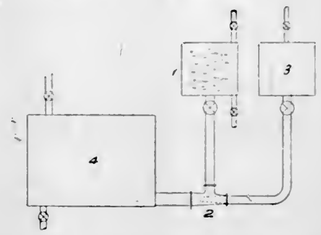
The combination in a wire-fence shield of tubular sections telescopically arranged and provided with suitable inner and outer rings at their ends to strengthen and prevent their displacement, and longitudinal slots extending the length of said sections of sufficient width to receive a fence wire.

1,336,206. CABINET FOR GRAMOPHONE AND LIKE RECORDS. LEON ALEXANDER DE BECKER, St. Margarets-on-Thames, England. Filed Jan. 28, 1920. Serial No. 354,657. 2 Claims. (Cl. 211—16.)



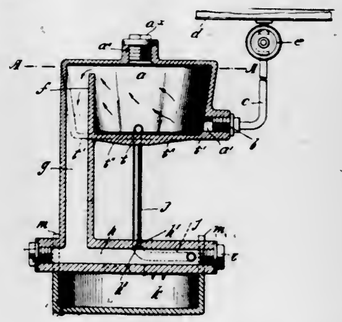
1. A cabinet for disk records, consisting of a box divided into compartments, curbed cradles pivotally mounted in said compartments in position to support the records with their edges in engagement with the upper wall of the cabinet, a slidable member connected to each of said cradles adjacent to the inner end thereof and adapted to releasably engage the cabinet for normally locking said cradles against pivotal movement, and means for limiting the sliding movement of said members when released.

1,336,207. PROCESS OF MAKING LUBRICATING COMPOSITION. JUDSON A. DE CEW, Montreal, Quebec, Canada. Filed Oct. 9, 1917. Serial No. 195,607. 4 Claims. (Cl. 87—9.)



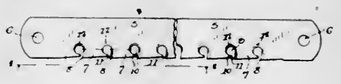
1. A method of making stable emulsions from blended water soluble and water insoluble oils with a minimum of the water soluble product which consists in bringing the oils in contact in a fine stream with hot water under pressure and forcing this solution into cold water by means of pressure.

1,336,208. OIL-HEATER. ROBERT DOUGHERTY, New York, N. Y., and JOHN F. KIRBY, Somerville, N. J. Filed June 27, 1918. Serial No. 242,219. 3 Claims. (Cl. 158—63.)



1. An oil-heater including a generator-chamber; a burner-chamber formed with a burner-hole through which the vapor escapes and at which the vapor burns; a conduit by which the vapor is led from the generator-chamber to the burner-chamber; and an equalizer-pipe which is independent of said conduit and one end of which communicates with the generator-chamber at the lower portion thereof and the other end of which communicates with the burner-chamber at a point which is at a substantial distance from said burner-hole.

1,336,209. SAW-BLADE. CHARLES H. DRIVER, Racine, Wis. Filed Apr. 21, 1919. Serial No. 291,500. 4 Claims. (Cl. 29—95.)



1. A metal cutting saw blade having a plurality of cutting teeth spaced apart a relatively long distance and provided with cutting edges of a given depth thereby gaging the amount of material to be cut in one operation of the blade, each tooth being inclined inwardly and rearwardly on a substantially straight line from the cutting edge toward the base of the cutting edge of the adjacent

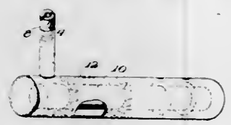
tooth, a material receiving pocket adjacent each tooth, and a passage-way connecting each material receiving pocket with the cutting edge of its adjacent tooth.

1,336,210. REGISTER. GEORGE W. DRULINER, Minneapolis, Minn. Filed Aug. 18, 1919. Serial No. 318,149. 8 Claims. (Cl. 98—54.)



1. In a register, the combination of a double walled box, forwardly facing channel members disposed between the walls at the sides and top of the box with their edges folded over the adjacent edges of the walls, U-shaped spring retaining members secured at their bights to the bights of said channel members, the arms of said retaining members being converged forwardly and then diverged, and a register plate frame having rearwardly projecting flanges telescoping with said channel members and engaging the said spring retaining members, said flanges having enlargements at their rear edges.

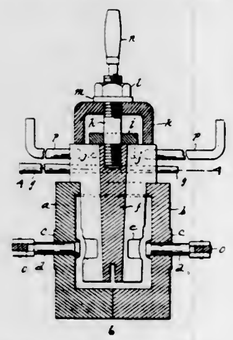
1,336,211. VACUUM SEALING DEVICE. HENRY DUFFY, Longmont, Colo. Filed Nov. 22, 1917. Serial No. 203,466. 2 Claims. (Cl. 137—76.)



1. An exteriorly threaded plug having a central port and a lateral passage, and a valve seated in said passage and having a transverse port, said valve when seated lying wholly within the plug, whereby when said plug is tapped in an orifice in a wall it will not project beyond the wall but may be partly withdrawn to permit opening said valve.

2. A retractable sealing device comprising a plug having a port 6 extending therethrough, and a passage 7 intersecting said port, and a valve in said passage lying wholly within the plug when seated and having a transverse port 9, said valve being axially movable to open or close the port 6 by placing the ports 6 and 9 in or out of register, and having a transverse cleft in its outer end.

1,336,212. MOLDING-CORE. LOUIS C. EVON, Detroit, Mich., assignor to Searight-Downs Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed May 1, 1919. Serial No. 294,114. 6 Claims. (Cl. 22—173.)



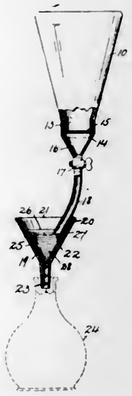
1. A molding core, having in combination, a plurality of collapsible parts including a spreading member, and means for starting the release of the member, comprising a bridge or yoke adapted to bear on the other collapsible parts, and a screw and nut operating in connection with said bridge to start the spreading member.

1,336,213. MANUFACTURE OF STAYBOLTS FOR BOILERS. JOHN ROGERS FLANNERY, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Mar. 1, 1919. Serial No. 280,113. 4 Claims. (Cl. 10—27.)



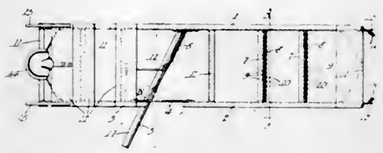
1. The herein described method of making a staybolt for boilers, consisting in forging a head on one end of a bar of metal and then drilling a longitudinal tell-tale hole in said bar and terminating said hole within the headed end thereof.

1,336,214. COMBINED MIXING AND DISPENSING APPARATUS. PHILIP FORMAN, Jersey City, N. J. Filed June 24, 1919. Serial No. 306,277. 2 Claims. (Cl. 210—16.)



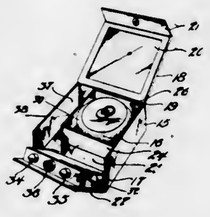
1. A dispensing apparatus comprising a receptacle, an outlet fixture comprising a valved pipe with a tapered part to fit the receptacle, and a funnel on the end of the pipe and integral therewith and inclosing the end of the pipe, the pipe entering the funnel at one side of the top and spaced therefrom at its lower end so that linings of filter paper can be inserted in the funnel and under the end of the pipe.

1,336,215. ROAD-PLANER. WILLIAM S. FOSTER, Dallas, Wis. Filed Mar. 10, 1919. Serial No. 281,787. 4 Claims. (Cl. 37—42.)



1. In a road planer, the combination of a long runner, alined spaced short runners parallel to the long runner, an upwardly arched brace connecting the short runners, an inclined relatively short and rigidly mounted planing tool, having its inner end attached to the long runner, and having its outer end projecting substantially beyond the short runners, said planing tool extending from substantially the bottom edge of the long runner to a slightly elevated position relative to the short runners, whereby to send the dirt toward the side and center of the road where it will pass under the inclined planing tool and shape a fine grade.

1,336,216. TOILET-BOX. ABRAHAM GARBEIL, Philadelphia, Pa. Filed Feb. 4, 1919. Serial No. 274,917. 8 Claims. (Cl. 132—32.)



1. A toilet box of the character described including two trays; one of said trays being movably connected whereby it can be moved into a position so as to permit access to the other of said trays; said movably connected tray having a mirror visible when said tray is moved to permit access to the other of said trays; substantially as described.

1,336,217. CULTIVATOR. CLAYTON J. GIFFORD, Manton, Mich. Filed Nov. 25, 1919. Serial No. 340,469. 1 Claim. (Cl. 97—10.)



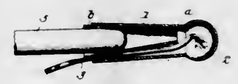
In a cultivator, a frame provided with a center bar and two side bars pivoted to the center bar at their front ends and having offset portions at their middle parts, a single cultivator blade connected to the rear end portion of the center bar beyond the ends of the side bars, a pair of furrow forming blades connected to the front end portions of the side bars, a pair of similar furrow forming blades connected to the offset portions of the side bars and arranged at a greater distance apart than the blades in front of them, a pair of outwardly inclined blades connected to the rear end portions of the said side bars and spaced nearer together than the blades which are set the widest apart and operating to close the furrows made by them, and means for adjusting the said side bars pivotally to vary the distance apart of the blades connected to them.

1,336,218. UMBRELLA-TIP. SIMON I. GOLDSTEIN, Baltimore, Md. Filed July 28, 1919. Serial No. 313,785. 5 Claims. (Cl. 135—36.)



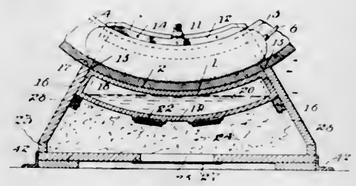
1. Means for attaching covers to umbrella ribs comprising a tubular tip adapted to receive the corners of adjacent cover sections, and a tapering pin adapted to fit into the tip and bind said corners therein, said pin adapted to telescopically engage the end of an umbrella rib.

1,336,219. UMBRELLA-TIP. SIMON I. GOLDSTEIN, Baltimore, Md. Filed Jan. 16, 1920. Serial No. 351,851. 2 Claims. (Cl. 135—34.)



2. Means for attaching covers to umbrella ribs comprising a tubular tip adapted to receive the corners of adjacent cover sections, and a hollow conical pin adapted to wedge into the tip and bind said corners therein, said pin adapted to engage over the end of an umbrella rib.

1,336,220. VULCANIZER. WILLIAM A. GWYNN, St. Louis, Mo., assignor to Susie E. Gwynn, St. Louis, Mo. Filed Mar. 25, 1918. Serial No. 224,481. 6 Claims. (Cl. 18—18.)

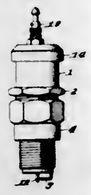


1. In a vulcanizing device, the combination of a heat-conductive vulcanizing body, having a vulcanizing face against which the article to be vulcanized may be pressed, and having a chamber to hold a fluid heating-medium, and a non-conducting casing enveloping the bottom and sides of said vulcanizer body and having parts with faces flush with said vulcanizing face to support the pressure of the article adjacent the edge of said vulcanizing face to prevent forming a ridge in the face of the vulcanized article.

1,336,221. SPARK-PLUG. WILLIAM A. GWYNN, St. Louis, Mo., assignor to Susie E. Gwynn, St. Louis, Mo. Filed Sept. 8, 1919. Serial No. 322,251. 5 Claims. (Cl. 123—169.)

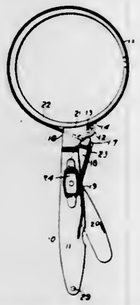
1. In a spark plug, the combination with a spark plug casing, a porcelain member mounted therein and provided in its upper end with a recess affording a seat, a terminal wire secured in said porcelain member and having its

upper end positioned below the plane of said seat, and a porcelain plug mounted in the upper end of said casing



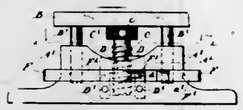
and having secured therein a conductor extending into said recess and provided at its lower end with a terminal plate resting upon said seat.

1,336,222. PISTON-RING ADJUSTER. RICHARD HAMMERLY, New York, N. Y. Filed Apr. 5, 1919. Serial No. 287,774. 3 Claims. (Cl. 81—3.)



1. In a piston ring adjuster, a handle, a flexible member secured at one end of the handle and extending therefrom in one direction for disposal around a piston ring, means to secure the other end of the flexible member to the handle, and a lever mounted on the handle, the lever having an arm free to move in the said direction beyond the handle and engaging the second mentioned end of the flexible member for pressing the flexible member in the said direction beyond the handle.

1,336,223. PRINTER'S FURNITURE. DONALD A. HAMPSON, Middletown, N. Y., assignor to Morgans & Wilcox Mfg. Company, Middletown, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,249. 4 Claims. (Cl. 254—41.)



1. In a device of the character set forth, relatively movable head and base members, and guiding means therefor, a screw rotatably mounted in said head member, dogs having teeth matching to the threads of said screw and pivotally mounted in said base member, and spring actuated slides on said base, connected to said dogs for swinging the latter out of engagement with said screw.

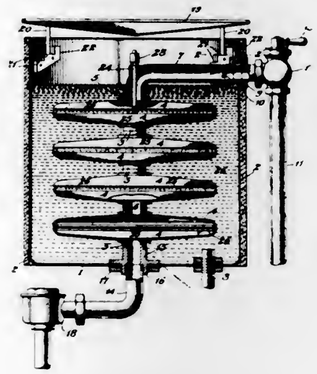
1,336,224. MANUFACTURE OF METAL REFLECTORS, MIRRORS, AND OTHER METAL ARTICLES HAVING A REFLECTING SURFACE OR SURFACES. THOMAS HANCOCK, Bow, England, assignor to The Reflecto-Metal Company, Limited, London, England. Filed May 3, 1918. Serial No. 232,252. 6 Claims. (Cl. 207—1.)

6. A new article of manufacture being a solidified self-supporting film of metal of low melting point, the whole of which is of the physical character of metal solidified directly from its molten state without mechanical treat-



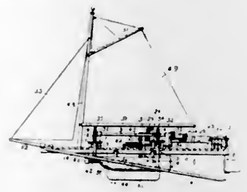
ment of any kind, the said solidified self-supporting film having one of its faces a mirror.

1,336,225. METHOD OF HUMIDIFYING AIR. ROBERT W. HARDIE, White Plains, N. Y., assignor to R. W. Hardie Company, Inc., a Corporation of New York. Original application filed Nov. 27, 1918, Serial No. 264,481. Divided and this application filed Oct. 11, 1919. Serial No. 330,123. 3 Claims. (Cl. 237—78.)



3. The method of humidifying air, consisting in exposing a body of water to the atmosphere, converting the water into vapor by the application of a heating medium thereto, and in controlling the extent of area within the water to which the heating medium is applied, independently of any variation of the water level.

1,336,226. SAILBOAT. JOHN H. HART, Bennington, Vt. Filed Nov. 28, 1919. Serial No. 341,306. 12 Claims. (Cl. 114—39.)



1. A boat including a floating platform, bars movable laterally of the platform, plane devices attached to the bars and located at opposite sides of the platform, and means for adjusting the bars to locate the plane devices nearer to and farther from the platform.

1,336,227. ARTIFICIAL FLOATING FLY AND HOOK. HARRY W. HAYES, Indianapolis, Ind. Filed Jan. 6, 1919. Serial No. 269,785. 1 Claim. (Cl. 43—48.)



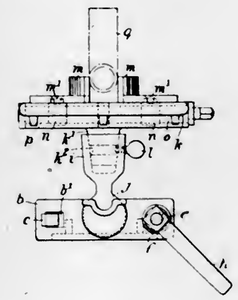
An artificial floating fly and hook comprising a buoyant body having a flat bottom and an inclined forward end, the top of the body projecting beyond the bottom of the body, a fish-hook having a shank embedded in said flat bottom, said shank having a flat base plate secured thereto that engages said flat bottom adjacent to the forward portion thereof, a bunch of hairs arranged about said shank and extending rearward beyond the shank, a band extending about said body and engaging said shank and bunch of hairs, a pair of wings arranged on the top of said body, and a band extending about said body and engaging said base plate and wings.

1,336,228. TOBACCO TIN OR BOX. JACOB M. HEASLEY, Pittsburgh, Pa. Filed Feb. 17, 1917, Serial No. 149,174. Renewed Sept. 16, 1919. Serial No. 324,221. 3 Claims. (Cl. 232—4.)



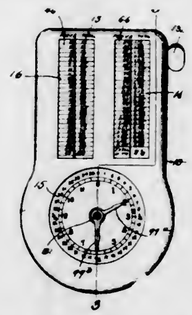
1. A container provided with a hinged cover, a tongue depending from the side of said cover opposite the hinge point, said container provided with a slot adapted to receive said tongue, and also provided with an opening below said slot through which said tongue can be bent upwardly within the box to permanently lock the cover in closed position.

1,336,229. WORK-HOLDER. CHARLES HODDLE, Westminster, England, assignor of one-half to Thorn & Hoddle Acetylene Company, Limited, Westminster, London, England. Filed Sept. 6, 1919. Serial No. 322,193. 1 Claim. (Cl. 81—19.)



A work holder comprising a member provided with means to permit its attachment to a support and having a semi-spherical enlargement, another member having one of its ends hinged to the first member and its other end detachably secured to the first member, the second member also having a semi-spherical enlargement which coöperates with the enlargement of the first member to form a substantially spherical casing, a ball located in the casing and carrying a socket, a shank resting in the socket, means for locking the shank and socket together, a wheel fixed to the shank, and a plurality of relatively movable jaws mounted on the wheel.

1,336,230. FABRIC MEASURING AND COMPUTING MACHINE. WALTER E. HOSCH, St. Louis, Mo.; Annie Mae Hosch, administratrix of said Walter E. Hosch, deceased, assignor to Measuregraph Company, St. Louis, Mo., a Corporation. Filed July 24, 1916. Serial No. 110,963. 16 Claims. (Cl. 33—133.)



1. In a machine of the class described, the combination with a rotary member adapted to be actuated by the movement thereover of the goods being measured, of a dial, an index hand movable over said dial, means for effecting a movement of the hand corresponding to the movement of the rotary member, a pair of stationary price scales, a pair of charts coöperating respectively with said price scales, which charts bear rows of figures indicating price totals of yards of goods and fractional parts thereof arranged thereon to coöperate with said price scales, a single drum on which both of the charts are normally wound, means for imparting simultaneous and corresponding movement to said charts, which movement corresponds to the movements of the rotary member and the index hand, spring operated means for restoring the index hands and charts to zero positions, manually operated means to release said spring operated means, and means for controlling the speed of the movement of the index hands and charts in restoring the same to zero positions.

2. In a machine of the class described, a rotary member adapted to be actuated by the goods passed through the machine, a pressure roller adapted to engage the goods and press the same against the rotary member, a pair of drums mounted for rotary movement in the machine, flexible charts connected to said drums so as to be windable onto and from said drums, a single drum arranged adjacent to the pair of drums, said flexible charts being connected to said single drum and adapted to wind thereon, means actuated by the rotary member for simultaneously imparting corresponding rotary movements to said pair of drums, fixed price scales arranged adjacent to the exposed faces of the flexible charts, spring operated means for imparting rotary movement to the single drum to rewind the charts thereupon, manually operated means for releasing said spring operated means, and means for regulating the speed of the rewinding movement.

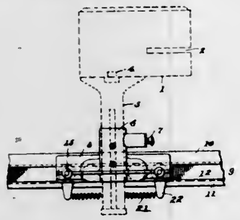
3. In a machine of the class described, a rotary member adapted to be actuated by the goods being measured, means operated by said rotary member for registering the movement thereof, a pair of price scales adjacent to said rotary member, a pair of drums adjacent to said price scales, means actuated by the rotary member for simul-

taneously operating said drums, charts connected to said drums so as to be windable onto and from said drums, a third drum on which the charts are normally wound, a spring coöperating with said third drum for rotating the same to rewind the charts thereon, which spring is wound by the unwinding of the charts from said third drum, and manually operated means for releasing said spring to effect the rewinding operation, and means for controlling the speed of the rewinding movement.

4. In a machine of the class described, a rotary member adapted to be actuated by the goods passing through the machine, means operated by said rotary member for registering the movement thereof, a pair of price scales adjacent to said rotary member, a pair of drums adjacent to said price scales, means actuated by the rotary member for simultaneously operating said drums, flexible charts windable by the operation of the machine onto said drums, a third drum on which the charts are normally wound, a spring coöperating with said third drum for rotating the same to rewind the charts thereon, which spring is wound by the unwinding of the charts from the third drum, manually operated means for releasing said third drum to effect a rewinding operation, coöperating driving connections from the rotary member to the driving means for the pair of chart carrying drums, and means driven by said coöperating driving connections for regulating the speed thereof during the rewinding movement.

5. In a machine of the class described, a measuring roller having a definite circumference, a pressure roller coöperating therewith, means including a pair of flexible charts adapted to unwind from a single drum onto a pair of drums and a pair of stationary price scales coöperating with the flexible charts for calculating the price of the goods drawn over the measuring roller, driving connections from the measuring roller to the pair of drums on which the charts are adapted to wind, and means for limiting the number of revolutions of the measuring roller.

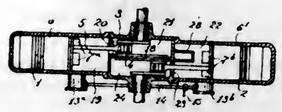
1,336,231. CARRIAGE FOR COUNTER ATTACHMENTS. WALTER E. HOSCH, St. Louis, Mo.; Annie Mae Hosch, administratrix of said Walter E. Hosch, deceased, assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed Nov. 15, 1917. Serial No. 202,134. 7 Claims. (Cl. 188—48.)



1. In a counter attachment, the combination of a carriage adapted to move along a track, comprising a bracket, means movably mounted on said bracket for guiding the bracket along the track, additional means mounted on said bracket for engaging the track at another point along its length and also operating to guide the bracket along the track, both the said means operating to engage the track to resist the movement of the bracket along the track, and means for actuating one of the aforesaid means to cause the same to normally engage the track.

1,336,232. TWO-STROKE INTERNAL-COMBUSTION ENGINE. ALBERT ISLIKER, Geneva, Switzerland, assignor of one-half to Motosacoche Societé Anonyme, Geneva, Switzerland. Filed June 25, 1919. Serial No. 306,721. 5 Claims. (Cl. 123—56.)

1. In an internal combustion engine, comprising a cylinder, a piston in the cylinder, a closed crank pit, there being an explosion chamber at the outer side of the piston, an intake chamber at the inner side of the piston, and gas and air chambers in the closed crank pit, a crank shaft, a crank extending through a wall separating the intake chamber from the chambers in the crank pit, and means whereby air and gas are drawn into said



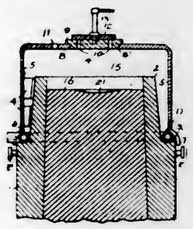
chambers by the operation of the piston, there being intake and exhaust ports in the cylinder and passages from the gas chamber to the inlet ports with communications between the passages and the air chamber in the crank pit so that when the intake and exhaust ports are open, air is first admitted to the cylinder to scavenge the same before the fresh gas is admitted thereto.

1,336,233. TOBACCO-PIPE. JAMES W. IVORY, Philadelphia, Pa. Filed Jan. 22, 1919. Serial No. 272,424. 2 Claims. (Cl. 131—12.)



1. A tobacco pipe consisting of a plurality of upright bowls, a communicating stem adapted to connect said bowls, a main stem extending from the bowl intermediate of said stems, and a closing stopper common to said bowls applicable to either bowl adapted to be fitted to the top of either bowl and exclude air from the latter.

1,336,234. INGOT-CASTING DEVICE. FRANK L. JAMISON, Pittsburgh, Pa. Filed July 21, 1919. Serial No. 312,191. 4 Claims. (Cl. 22—216.)

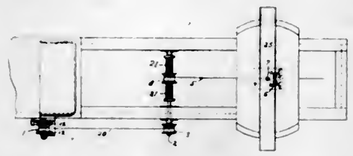


1. An ingot-casting device comprising a mold formed of a body portion and a head, said head being of a different contour than the contour of said body and smaller than the latter, burners surrounding the lower portion of the head, a hood inclosing the head and overlapping the burners and provided with air inlets, said hood of a different contour from that of the head thereby forming a heating chamber surrounding the head, and said hood having its top provided with vent openings.

1,336,235. BRAKE-OPERATING MEANS FOR TRAILERS. HERBERT C. JARVIS, Renton, Wash., assignor to Pacific Car & Foundry Co., Seattle, Wash., a Corporation of Washington. Filed May 23, 1918. Serial No. 236,108. 9 Claims. (Cl. 188—3.)

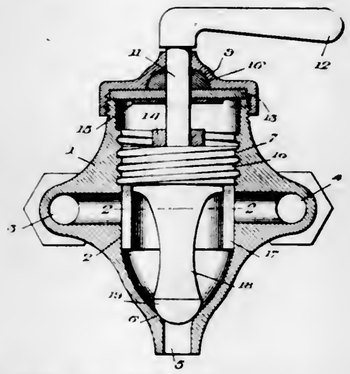
4. A trailer brake for trucks comprising three drums mounted upon the truck, a cable secured to wind upon

and connecting two of said drums, means operatively connecting one of said drums with the third drum, and a



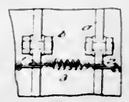
cable secured to wind upon the said third drum and adapted to be connected with the brake of the trailer.

1,336,236. COMBINATION-FAUCET. JACOB T. JOHNSON, Atlanta, Ga. Filed Mar. 5, 1919. Serial No. 280,757. 2 Claims. (Cl. 251—106.)



1. A valve comprising a casing having a chamber with a smooth cylindrical wall, a pair of inlet passages leading to said chamber, and a discharge outlet at one end of said chamber, said wall having screw threads at that side of said inlet passages opposite to the discharge outlet and spaced from said inlet passages, and a valve member screw threaded within said screw threaded portion of the wall, and having an arcuate portion extending therefrom and snugly fitting said smooth cylindrical wall and adapted to move across said passages, said valve member having a finger extending therefrom to seat over said outlet.

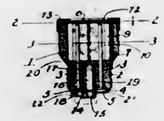
1,336,237. ENGINE VALVE ATTACHMENT. BENJAMIN H. KESSLER, Tampa, Fla. Filed Apr. 18, 1918. Serial No. 229,420. 3 Claims. (Cl. 123—90.)



1. In combination with the rocker arms of an internal combustion engine, means for yieldably interconnecting the same to prevent lateral or side movement thereof.

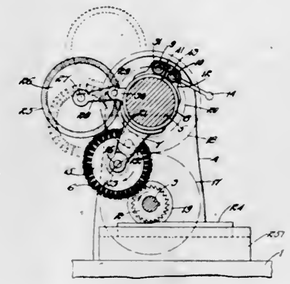
1,336,238. MULTIPLE-FUSE PLUG. ELGIN M. KING, Niagara Falls, N. Y. Filed Apr. 22, 1918. Serial No. 229,973. 2 Claims. (Cl. 200—125.)

1. A multiple fuse-plug comprising a body of insulating material, a shell applied to the front portion of said body, a plurality of fuses arranged in said body and having their front ends disposed in a circular row at the corresponding end of the body, a conducting disk arranged in the rear portion of said body and connecting the several fuses at their rear ends, a conductor permanently con-



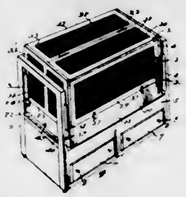
necting said disk with said shell, a rotary spindle arranged lengthwise of said body and disconnected from said disk, and a switch arm mounted on said spindle and arranged to selectively engage the front ends of the fuses.

1,336,239. APPARATUS FOR FORMING A SMOOTH SURFACE ON METAL WHILE BEING MILLED. THOMAS B. KINRAIDE, Boston, Mass. Filed May 13, 1918. No. 234,260. 9 Claims. (Cl. 90—11.)



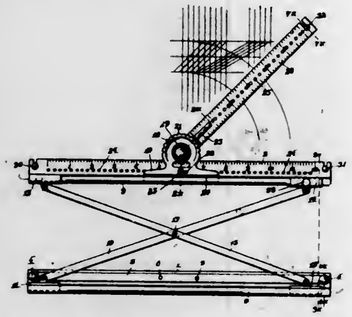
1. In combination with a milling machine having a rotary cutter, a rotary bristle brush whose axis extends parallel with the axis of the cutter, a yoke in which said brush is journaled, a supporting shaft parallel with the axis of said brush, means for adjustably securing said yoke to said shaft to maintain the brush parallel with the axis of the cutter, the yoke being adjustable to change the position of the brush toward and away from the cutter, and means for maintaining the yoke in its adjusted position, so that the brush may be maintained either in engagement with the cutter or entirely free from the cutter, as desired.

1,336,240. COMBINATION BABY'S BED, CRADLE, AND WARDROBE. WILLIAM W. KNIGHT, Oxford, Miss. Filed Nov. 29, 1918. Serial No. 264,604. 8 Claims. (Cl. 5—58.)



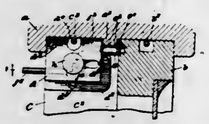
1. A device for the purpose indicated embodying a main frame having end pieces, a cradle swingingly supported in the frame by suspension from the said end pieces, catches projecting from the end of the cradle, and keeper bars hingedly attached to the end pieces and movable from normally vertical planes to horizontal planes for engagement with the catches to temporarily lock the cradle against swinging movement.

1,336,241. DRAFTING-MACHINE. ARTHUR C. LA MAY, Rochester, N. Y.; Bridget La May administratrix of said Arthur C. La May, deceased. Filed Nov. 6, 1916. Serial No. 129,741. 4 Claims. (Cl. 33—26.)



2. In a drafting machine the combination of a bar, a channel formed on said bar, a plate mounted to slide in said channel, a bar mounted to swing on said sliding plate, a pin passing through the center of rotation of said bar to engage with the drafting board to hold said sliding plate in fixed position.

1,336,242. SASH-LOCK. EDWARD LARSON, Hartford, Conn. Filed Apr. 18, 1919. Serial No. 290,947. 3 Claims. (Cl. 292—175.)



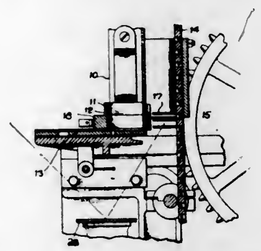
1. In a window sash lock, a body r casing adapted o be secured to the top of the lower or inner sash and provided with a spring controlled bolt movable forwardly and backwardly therethrough, one part of said bolt being adapted to pass through an aperture in the central bead strip of the window frame which separates the sashes and into an aperture in the upper or outer sash to lock said sashes together and to said bead strip.

1,336,243. BUTTON. WALTER O. LEE, Detroit, Mich. Filed Oct. 31, 1919. Serial No. 334,636. 1 Claim. (Cl. 24—108.)



A neck-tie button, having in combination, a head, a stem with a pointed end attached thereto and having an annular groove near its pointed end but with an intervening cylindrical portion, a base having a drawn-in perforated center through which the stem passes and adapted to engage around the portion of the stem between the annular groove and the head, and a sleeve secured to the base within the drawn-in center and fitting closely around the cylindrical portion of the stem intervening between the groove and pointed end, the end of the sleeve facing the head being split and turned in to be of less diameter than the stem to form spring prongs which can engage in the annular groove of the stem.

1,336,244. MATCH-MACHINE ATTACHMENT. GEORGE LISPENARD, Brooklyn, N. Y., assignor to H. & F. Match Machine Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 13, 1918. Serial No. 262,299. 5 Claims. (Cl. 144—64.)



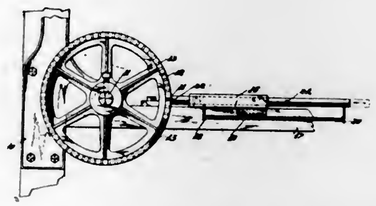
1. A magazine for match machines having narrow splint containing parallel cells located at the extreme bottom of the machine hopper and directly above the splint inserting means, and a detachable front plate covering the end of the cells and adapted when removed to expose the entire series of cell ends.

1,336,245. MATCH-BOXING ATTACHMENT. GEORGE LISPENARD, Brooklyn, N. Y., assignor to H. & F. Match Machine Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 13, 1918. Serial No. 262,300. 1 Claim. (Cl. 144—61.)



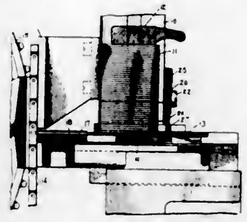
In a machine of the kind described the combination of the carrying belt and the guides therefor rising above the sides of the belt, and the clips spaced apart on the carrying belt and adapted to receive boxes or trays between them, each clip having its lower portion fitting between the aforesaid guides, and a thin upper portion extending for nearly the length of the match trays, said upper portion being elongated so as to extend for a greater part of the length of the trays.

1,336,246. REGISTERING ATTACHMENT FOR MATCH-MACHINES. GEORGE LISPENARD, Brooklyn, N. Y., assignor to H. & F. Match Machine Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 19, 1919. Serial No. 283,654. 5 Claims. (Cl. 144—50.)



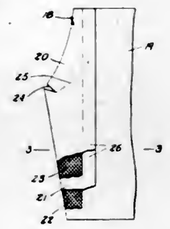
1. An apparatus of the kind described comprising a wheel adapted to connect and rotate in unison with the movement of the carrier of a match machine, said wheel having holes in its face, and a reciprocating spring pressed slide bar moving in unison with the reciprocating parts of the match machine and engaging the holes in the wheel.

1,336,247. PIN-GATE FOR MATCH-MACHINE HOPPERS. GEORGE LISPENARD, Brooklyn, N. Y., assignor to H. & F. Match Machine Corporation, New York, N. Y., a Corporation of New York. Filed July 23, 1919. Serial No. 312,709. 5 Claims. (Cl. 144—64.)



1. In a match machine having a hopper with splint cells in the lower part thereof in which the splints lie parallel one upon the other, means for feeding the match splints individually from the cells to a carrier, and a separate end closure for the individual cells at the hopper bottom.

1,336,248. BURIAL-GARMENT AND METHOD OF MAKING THE SAME. HARRY T. LOOMIS, Brooklyn, N. Y. Filed Mar. 20, 1919. Serial No. 283,735. 13 Claims. (Cl. 2—61.)



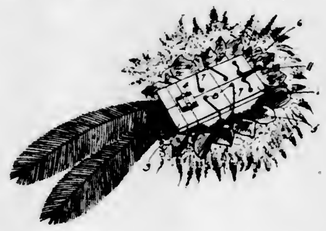
2. The method of making a garment of the class described and providing the same with lapels and a collar, which consists in providing a sheet of fabric from which the body portion of the garment is made and a lapel and collar fabric facing strip, securing a predetermined portion of said facing strip to a predetermined portion of said sheet by adhesive material, and cutting and fashioning the parts of the garment from said sheet and strip in such manner as to form a lapel and a part of a collar on each part of the garment from that portion of the fabric sheet to which the fabric strip is secured and to form attaching flaps from that part of said strip not secured to the body sheet.

5. The method of making a garment of the class specified and providing the same with lapels and a collar, which consists in providing a fabric sheet of predetermined width from which the body portion of the garment is made, securing a plurality of strips of fabric of predetermined width to the central portion of said sheet by strips of adhesive material of less width than said fabric strips, then cutting the separate parts of the garment from the said sheet with said strips secured thereto in such manner as to form a lapel and a part of the collar on each part of the garment from that part of the sheet to which said strips are secured, and marking the parts thus produced so as to distinguish the lapels from the collar.

8. A burial garment of the class described comprising a fabric sheet from which the body portion of the garment is made, a facing material of less width than said sheet and secured thereto by adhesive material and the lapel and collar portions of the garment being composed of said sheet and the facing material secured thereto.

13. A garment of the class described composed of separate parts each of which is provided with a lapel and a part of a collar formed from a sheet of fabric material from which the body portion of the garment is made, a strip of similar facing material, and an interlining strip, parts of said strips being secured together and to the sheet by adhesive material and the unattached portions of said strips forming attaching flaps.

1,336,249. FLORAL DEVICE. DE FOREST W. LUDWIG, Pittsburgh, Pa. Filed Nov. 21, 1919. Serial No. 339,601. 5 Claims. (Cl. 41—12.)



1. A device for holding flowers, foliage and the like, comprising a base member composed of a plurality of relatively movable parts, a mass of material to which flowers and the like may be attached, and a clamp for attaching the said material to the said base member.

1,336,250. SAMPLING DEVICE. HENRY E. MCCOY and FRANK J. TARR, Sapulpa, Okla. Filed July 22, 1918. Serial No. 246,071. 3 Claims. (Cl. 83—15.)

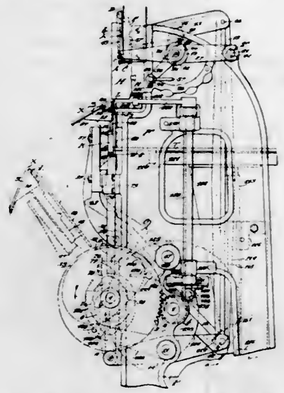


1. In a sampling device of the class described, a tubular body, a barrel extending downwardly therefrom and having a side opening therein, a base cap closing the lower end of said barrel, a tubular container movable longitudinally within said barrel and open at both ends, a stationary seal in said cap for the lower end of said container, means for raising said container within said barrel, and means for actuating said raising means to permit said container to move downwardly against said sealing means.

1,336,251. BOOKLET-STITCHING MACHINE. ARTHUR H. MAYNARD, Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me., a Corporation of Maine. Filed July 17, 1918. Serial No. 245,310. 36 Claims. (Cl. 1—7.)

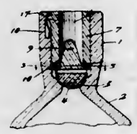
1. In a wire-stitching machine for stapling booklets, pamphlets or the like, the combination with a plurality of stitcher-heads carrying the stapling-mechanisms, of a work-saddle movable into coöperative relation with the stitcher-heads, means to carry the saddle back and forth with respect to the heads, side-gages on the saddle for

positioning the work in proper relation with the stitching-mechanisms, and means to slide the gages toward each



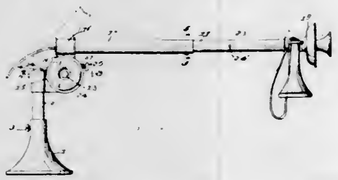
other on the saddle to engage them with the edges of the work to shift the latter into position therealong.

1,336,252. NON-REFILLABLE BOTTLE. ELMER MILLER, Boonton, N. J. Filed Aug. 13, 1917. Serial No. 186,025. 1 Claim. (Cl. 215—65.)



A non-refillable bottle including a neck having a semi-spherical seat in the lower portion thereof, a circular series of vertical ribs extending upwardly from the surrounding wall of the seat, a semi-spherical valve movable toward and away from the seat, and a guard member disposed in the neck above the seat and having a longitudinal central bore therethrough, the upper face of the bottom wall of the guard being formed with a central upwardly extending conical projection, the lower portion of the said bore being divided at its lower end and extending downwardly and outwardly through the sides of the guard, the lower end of the guard being undercut adjacent its periphery and resting on the said ribs, whereby upward tortuous passages are formed from the interior of the bottle to the said bore.

1,336,253. TELEPHONE-SUPPORT. WILLIS I. MILLER, Cleveland, Ohio. Filed Mar. 31, 1919. Serial No. 286,429. 3 Claims. (Cl. 179—149.)



1. A telephone support comprising an arm, a plate having means for connecting the same to a support, the said plate being formed with a central boss and with an annular flange, a casing connected with said arm and dimensioned according to the plate, the said casing having a central hub and an annular flange, the hub bearing against the boss of the plate and the flange against the flange of the plate, and a pivot stud passing through the hub of the casing and through the boss of the plate.

1,336,254. LAMINATED WHEEL FILLER UNIT. MELVILLE W. MIX, Mishawaka, Ind., assignor to Dodge Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Jan. 31, 1916. Serial No. 75,350. 2 Claims. (Cl. 21—69.)



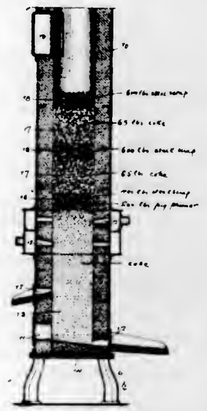
1. In laminar wheel fillers a plurality of laminated disks arranged in groups spaced apart, metallic sheaths on the outside of the disks having openings in register with openings formed in the disks, means extending through both openings to hold the sheaths in position on the disks, and means placed in the interspace between the groups to hold such groups apart within the limits set by the thimbles.

1,336,255. JAR-LIFTER. HENRY MORLEY, New Westminster, British Columbia, Canada. Filed Sept. 26, 1919. Serial No. 326,531. 2 Claims. (Cl. 294—28.)



1. A jar lifter comprising a rod eyed at one end, and a pair of plates carried loosely by said eye having their lower ends turned inwardly to form gripping jaws capable of being spread to pass over a jar having a collar, said plates being hingedly connected loosely at their upper ends whereby when they are spread over the jar collar raising of the plates draws their lower ends together to engage the jar under the collar.

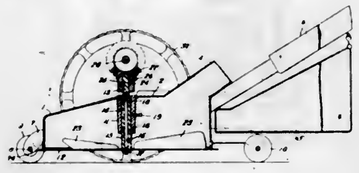
1,336,256. METHOD OF UTILIZING STEEL-SCRAP. GEORGE M. MUNTZ and ETIENNE M. ROUBIEU, Brooklyn, N. Y., assignors to Tropenas Company, Brooklyn, N. Y., a Corporation of New York. Filed June 25, 1917. Serial No. 176,849. 8 Claims. (Cl. 75—27.)



3. The method of melting steel scrap in a cupola which comprises initiating the melt with metal of lower fusing point than steel scrap, and thereafter melting successive metal charges comprising steel scrap largely in excess of metal of low melting point, the sizes of the charges being

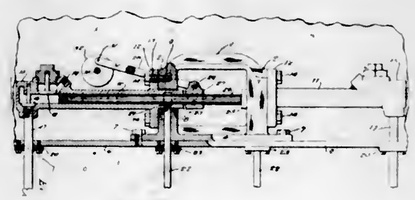
such as to insure a substantially continuous rain of molten metal at a high temperature to the hearth of the cupola.

1,336,257. LAWN-MOWER. ERNEST E. MUZZY, Canton, Ohio, assignor of one-half to Charles H. Ritterbush, Canton, Ohio. Filed Apr. 11, 1919. Serial No. 289,195. 1 Claim. (Cl. 56—295.)



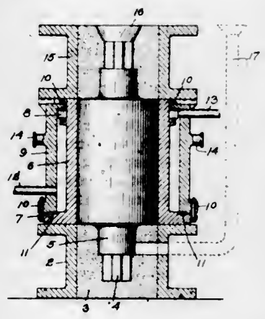
In a lawn mower, a rotary cutting disk provided with a peripheral cutting edge and with radial cut-out portions in said disk, a cutting edge formed upon one edge of each cut-out portion and an upwardly inclined vane formed at the opposite edge of each cut-out portion.

1,336,258. WATER-PUMP. EDWARD C. NEWCOMB, Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo., a Corporation. Filed Jan. 28, 1919. Serial No. 273,637. 5 Claims. (Cl. 103—77.)



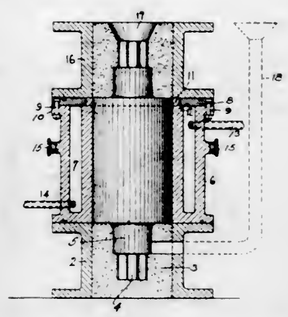
1. A duplex pump comprising a frame, alining pump barrels adjustably secured at their inner ends to said frame and being thereby wholly supported, and a unitary piston common to said barrels.

1,336,259. CHILL-MOLD. WILLIAM H. NICHOLS, Pittsburgh, Pa. Filed Aug. 18, 1919. Serial No. 318,378. 2 Claims. (Cl. 22—180.)



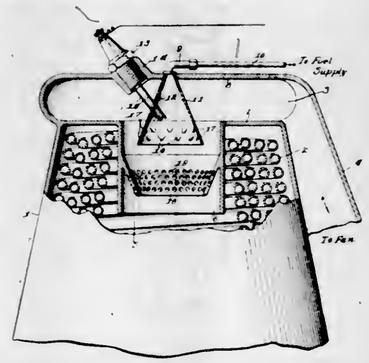
1. A chill-mold comprising the inner chill, a water-jacket surrounding said chill, and removably secured thereto, said water-jacket forming one continuous uninterrupted passage completely encircling said chill having an inlet and outlet for the admission and discharge of the cooling fluid.

1,336,260. CHILL-MOLD. WILLIAM H. NICHOLS, Pittsburgh, Pa. Filed Aug. 18, 1919. Serial No. 318,379. 3 Claims. (Cl. 22—177.)



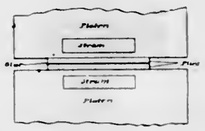
1. A chill-mold having a water-jacket cast integral therewith forming a continuous water passage completely encircling the chill for substantially the entire height of said chill.

1,336,261. COMBUSTION APPARATUS. LEWIS L. SCOTT, St. Louis, Mo. Filed Aug. 21, 1919. Serial No. 318,848. 11 Claims. (Cl. 158—29.)



1. In a combustion system, in combination with an ignition chamber for receiving sprayed fuel, a spark plug having its body isolated from the zone of combustion of said chamber and its spark terminals projecting into the interior of said chamber.

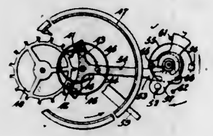
1,336,262. PROCESS OF MANUFACTURING PLYWOOD. OLENUS L. SPONSLER, MATTHEW E. DUNLAP, and SHERBURNE B. HENNING, Madison, Wis., assignors to The United States of America. Filed June 19, 1918. Serial No. 240,859. 3 Claims. (Cl. 144—309.)



1. The method of making thin, flexible plywood which consists in impregnating a glue carrier, such as a thin ply of wood, a sheet of paper, a sheet of fabric or similar material with glue composed of albumin, water and a

sugar syrup whereby said carrier is rendered flexible and capable of being rolled into cylinders for convenience in storing or transporting, drying said carrier, placing said glue carrier between two or more thin plies of wood and subjecting said plies and said glue carrier to heat and pressure.

1,336,263. CHRONOMETER-ESCAPEMENT. SVEN TIDEMAN, Columbus, Ohio. Filed May 20, 1919. Serial No. 298,437. 8 Claims. (Cl. 58—117.)



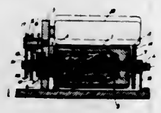
5. In an escapement, a balance wheel, and means imparting impulses to the balance wheel at the rim thereof.

1,336,264. PROCESS OF DESTRUCTIVE DISTILLATION. CHARLES TURNER, Iriam, England. Filed June 12, 1918. Serial No. 239,637. 3 Claims. (Cl. 203—6.)



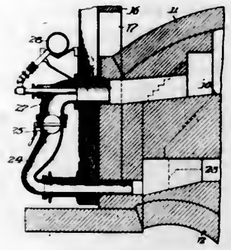
1. A process of destructive distillation of solid carbonaceous material, which process consists in heating a charge of the material in a closed vessel until the elastic fluid pressure therein has attained a selected maximum and thereupon relieving the pressure in the vessel by causing the elastic fluid to expand into a condenser, and repeating these operations upon the same charge until distillation is complete.

1,336,265. ANTISPINNING DEVICE. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 25, 1919. Serial No. 292,661. 6 Claims. (Cl. 33—129.)



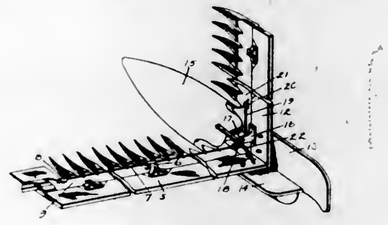
1. In a fabric measuring machine, in combination with a measuring roll and a pressure roll adapted to make contact and to be rotated by drawing the fabric to be measured between them, a brake means including a member positioned to be engaged by the pressure roll simultaneously with the engagement of the latter with the measuring roll when the fabric passes from between the rolls.

1,336,266. METAL-HEATING FURNACE. HOMER D. WILLIAMS, Pittsburgh, and WILLIAM AHLEN, Duquesne, Pa. Filed July 27, 1916. Serial No. 111,601. 3 Claims. (Cl. 263—15.)



1. In a metal heating furnace, the combination with the furnace heating chamber, of a plurality of large burners, a plurality of small burners at one end of said heating chamber, means for supplying gas to said burners, and means for supplying preheated air under pressure to said burners, said means including an air heating chamber having an air inlet at one end open to the atmosphere, a fan having an inlet connected to the outlet on said air heating chamber, a recuperator having an air inlet connected to the fan outlet, a heating chamber having an inlet connected to the air outlet on said recuperator, and a conduit connecting the outlet on said heating chamber to said large burner, a branch conduit connecting said small burner with said first named burner, and suitable control valves in said conduits.

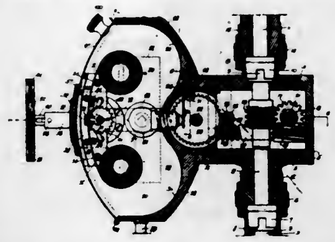
1,336,267. VERTICAL CUTTER-BAR ATTACHMENT FOR HARVESTERS. ORMSBY P. WILLIAMS, Trout Lake, Wash. Filed July 25, 1919. Serial No. 313,134. 1 Claim. (Cl. 56—316.)



The combination with a horizontal cutter bar having a moving knife, of a vertical cutter bar arranged at one end of the horizontal bar and having a moving knife, a shoe formed of right angularly extending plates to which said bars are secured, a guide bracket on said horizontal bar, an operating rod slidable through said bracket and having one end threaded, a tubular member on said horizontal knife through which said threaded end extends, nuts on said threaded end engaging opposite ends of said tubular member whereby said operating rod is adjustably connected with the horizontal knife, a bracket on said vertical bar, an angle lever pivoted on said last named bracket and having one arm connected with said operating rod, and a connecting rod pivotally connected with said vertical knife and with the other arm of said angle lever.

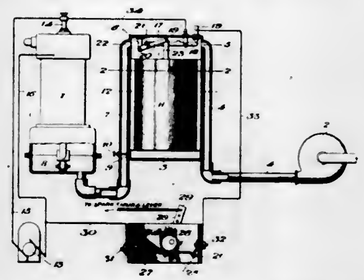
1,336,268. ROAD-INDICATOR. BENJAMIN A. WILMOT, Chicago, Ill. Filed Aug. 2, 1917. Serial No. 184,130. 3 Claims. (Cl. 40—42.)

1. The combination of a casing having a window; a flexible indicating strip in the form of at least one spiral roll having a permanent set tending to cause it to assume a spiral roll form as it is unwound from said first roll; means for guiding said strip adjacent said window; and vehicle-actuated driving mechanism including a toothed wheel entering openings in said strip for propelling it past the window and thereafter causing it to



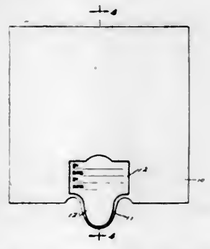
independently assume the form of a spiral roll, said wheel being mounted substantially midway between said rolls with substantially equal amounts of the strip between itself and each roll.

1,336,269. FLOAT-OPERATED CIRCUIT-BREAKER. WILLIAM ZEBELL, Odell, Ill. Filed Aug. 28, 1918. Serial No. 251,833. 5 Claims. (Cl. 123—146.5.)



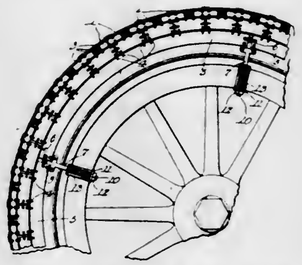
1. In a gas engine, a normally open sparking circuit, spark controlling means, a normally open auxiliary circuit, means for automatically closing the auxiliary circuit, whereby the sparking circuit is sort-circuited, and means controlled by the spark controlling means for reopening said auxiliary circuit.

1,336,270. RECORD-INDEX ENVELOP. JOHN ZIMMERMAN, Brooklyn, N. Y. Filed Dec. 30, 1919. Serial No. 348,256. 1 Claim. (Cl. 40—2.)



In a means for preserving and identifying record disks, the combination of an envelop having at its open end a forwardly projecting flexible tab, a label field applied to the body of the envelop adjacent to the tab and having a tongue projecting over the tab, said label field having predetermined spaces for the names of the selection and composer, and an initial index letter adapted to be pasted upon the tab and tongue corresponding to the name of the selection.

1,336,271. TIRE-PROTECTOR. RICHARD T. BAKER, Philadelphia, Pa. Filed Mar. 15, 1919. Serial No. 282,925. 2 Claims. (Cl. 152—16.)



1. A tire protector embodying several series of metallic tread pieces elongated circumferentially of the tire, sectional rim members arranged at opposite sides of said tread pieces and having a hinge connection therewith, links connecting said tread pieces both circumferentially and transversely of the tire, clamping bolts arranged at the adjacent ends of the sections of the rim, each bolt having a link connection with two sections and means whereby said bolts are connected to the wheel for holding the protector upon the tire.

1,336,272. DISINFECTANT, ANTISEPTIC, DEODORANT, OR DETERGENT. CHARLES BILLING, London, England. Filed Nov. 29, 1916. Serial No. 134,061. 1 Claim. (Cl. 167—3.)

As a new article of manufacture, a non-efflorescent disinfectant, antiseptic, deodorant or detergent comprising a non-irritant mixture consisting of 75 to 90 parts of an alkali-monoborate, 25 to 10 parts of an alkali-metal diborate, and sodium chlorid.

1,336,273. UPHOLSTERER'S TACK. SARAH MABEL BLISS, Albuquerque, N. Mex. Filed July 3, 1919. Serial No. 308,547. 1 Claim. (Cl. 24—152.)



An upholsterer's tack comprising a conical sheath having a penetrating point and having its other end provided with a head, said sheath being provided with a conical recess provided intermediate its ends with an enlarged portion, a longitudinally arranged spring disposed within the enlarged portion of said recess and substantially conforming thereto, the lower portion of said spring being flattened and provided with a hole, said spring having its upper ends spaced apart and arranged in spaced relation to the walls of the enlarged portion of said recess, and a shank member adapted for disposition within said sheath and having a penetrating point adapted to pass through the hole in said spring and further including a head adapted to have coöperation with the head of said sheath, the intermediate portion of said shank being formed with a substantially spherical enlargement adapted for passage between the ends of said spring and for engagement within said spring.

1,336,274. WINDOW-STOP. CHARLES O. BLOOMQUIST, Salt Lake City, Utah. Filed June 25, 1917. Serial No. 176,894. 1 Claim. (Cl. 292—210.)

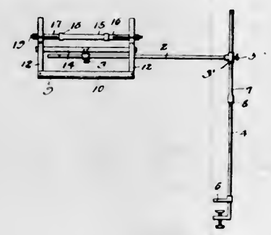
A window stop comprising a loose pin hinged butt having a slot cut in one leaf thereof and a portion of the

knuckle of the said leaf cut away, a plate comprising a stop piece secured to the second leaf having its upper edge approximately in a line with the lower wall of the slot in the first mentioned leaf, said stop piece having a concaved depression at its upper end, a dog having a hook at one of its ends and its opposite end cut to provide two involute curves which is pivoted to the plate eccentrically with respect to the depressed portion in the stop piece, and whereby, when the leaves of the hinge are brought to right angular position with respect to



each other the said dog may be turned to bring the hooked end thereof into the slot of the first mentioned leaf and the involute curve at one side of its inner end in frictional contact with one of the end walls of the curved depression in the stop plate, and said dog, when swung to an opposite or unlatching position designed to have the second involute curve on the end thereof engage with the opposite end of the curved depression in the stop plate to frictionally engage therewith and sustain the dog in unlatching position and an operating knob secured to the pivot of the dog.

1,336,275. BOOK-HOLDER. EDWARD J. BOYER, Aurora, Kans. Filed July 29, 1919. Serial No. 314,109. 3 Claims. (Cl. 45—82.)



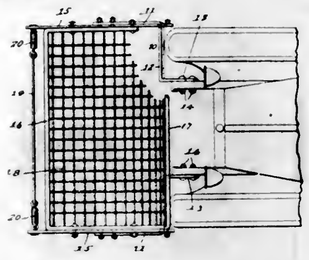
1. A device of the class described comprising a plate having a flange thereon, a pair of arms pivotally connected to said flange, clips carried by said arms, a supporting piece detachably held by said clips, a second cross piece also detachably held by said clips and leaf-supporting fingers carried by said second piece.

1,336,276. CREEPER. DALLAS BRIGHTWELL, Frankfort, Ky. Filed Oct. 14, 1919. Serial No. 330,559. 1 Claim. (Cl. 36—63.)



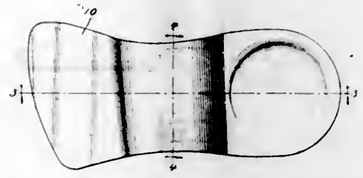
A device of the class described comprising a sole plate having a plurality of slits therein with the metal between the slits forced upwardly, a heel plate, a spring strap having a right angular extension connected with the heel plate, said spring strap engaging said slits and passed under the metal between the slits, a loop formed at the inner end of the sole plate and a strap engaging said loop, a portion of the spring strap resting upon the loop so that the securing strap assists in holding the heel portion in place.

1,336,277. FENDER. EDWIN BURCH, Baltimore, Md. Filed Dec. 23, 1919. Serial No. 346,867. 2 Claims. (Cl. 293—42.)



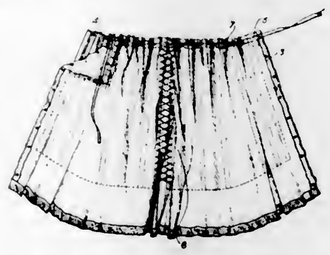
1. The combination with a vehicle, of a fender comprising forwardly extending side arms adapted to be secured to the vehicle, a frame secured to said side arms, said frame including curved side bars formed to provide forwardly extending substantially horizontal portions and rearwardly and upwardly extending portions, front and rear bars connecting the side bars, said front bar being spaced from the forward ends of the side bars, a net secured within said frame and a yieldable member connecting the forward extremities of the side bars and spaced in advance of the front connecting bar.

1,336,278. INSTEP-SUPPORT. WILLIAM C. BURNS, Albany, Oreg. Filed Sept. 8, 1919. Serial No. 322,260. 1 Claim. (Cl. 36—71.)



In a device of the class described, a flexible insole, a rigid member secured to said insole and designed to support the cuboid bone and the instep of the foot, and abutments carried by said insole for engagement with the opposite ends of said rigid member for the purpose specified.

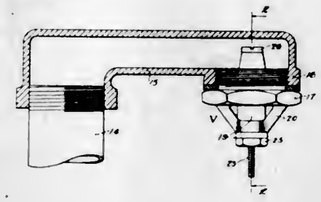
1,336,279. VEST. ELIZABETH CALKINS, St. Joseph, Mo. Filed Aug. 8, 1919. Serial No. 316,208. 4 Claims. (Cl. 2—73.)



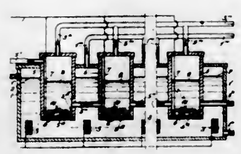
2. An article of apparel including, in combination with a corset, a shirt removably attached to the inner face thereof.

1,336,280. AUTOMATIC AIR-VENT. PATRICK CARROLL, New York, N. Y. Filed Jan. 25, 1919. Serial No. 273,111. 1 Claim. (Cl. 182—11.)

The herein described automatic air vent comprising a casing having an open bottom, a valve seat screwed upward into the casing through said open bottom, said valve seat having a hollow center and including a rigid bracket as a part thereof, a vertically arranged tubular guide supported centrally of the valve seat and upon said bracket, said guide having a threaded lower end, a valve seated upon said valve seat and adapted to open upward within the casing, said valve including a downwardly projecting hollow shank slidable in the guide and having an inturned lower end, a threaded pin having a head within the valve structure and extending thence downward through the center of the inturned end and adjusted in and through the threaded end of the guide, and a coil spring surrounding the pin and located between the inturned end of the shank and the head of the pin and serving to resiliently hold the valve seated.

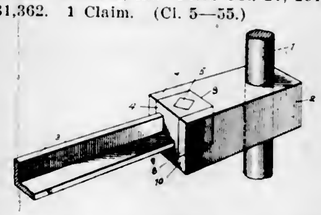


1,336,281. PROCESS AND APPARATUS FOR THE ELECTROLYTIC DECOMPOSITION OF CHLORIDS. BENIAMINO CATALDI, Turin, Italy. Filed May 12, 1919. Serial No. 296,578. 19 Claims. (Cl. 204—58.)



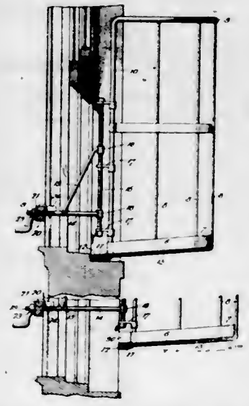
3. The process which comprises electrolyzing a solution of a chlorid of the alkali metals between an anode insoluble in said solution and a mercury cathode mechanically separated therefrom, thereby forming an alkali-metal amalgam and chlorin, flowing water over the surface of the amalgam, thereby forming a solution of caustic soda and hydrogen, accelerating the reaction at the surface of the amalgam by local electrolytic action during the flow of the water, and collecting the hydrogen and chlorin.

1,336,282. BED-RAIL AND LOCK. JOSEPH A. CHARBONNET, New Orleans, La. Filed Oct. 17, 1919. Serial No. 331,362. 1 Claim. (Cl. 5—55.)



In a device for the purpose set forth, the combination of a corner post of a bed, a member secured to the post and having a chamber formed in its end remote from the post; said chamber open at its front, a pin arranged within the chamber and spaced equi-distant from its side walls and also equi-distant from the back wall and open end of said chamber; said pin rising to the same height as the side and back walls, a rail of L-shape in cross section, and a head formed integral on the end of the rail and having an opening in its direct center that encircles the pin of the chamber when the head is placed in said chamber.

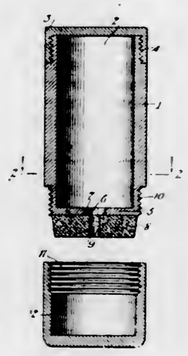
1,336,283. WINDOW-SCAFFOLD. JOHN HENRY COOK, Salt Lake City, Utah. Filed June 18, 1918. Serial No. 240,592. 5 Claims. (Cl. 20—87.)



1. In a structure of the character set forth, the combination with a platform, of a guard railing extending above the same and terminating short of its front edge, forming a ledge, said railing including end posts, and a cross bar connecting the lower ends of the posts and offset therefrom, said cross bar extending longitudinally along the ledge, forming a reinforcement for said ledge.

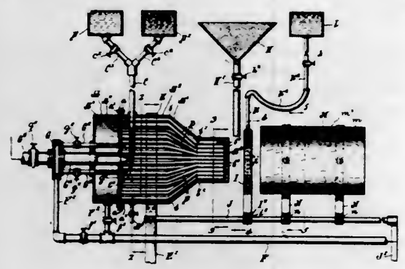
2. In a structure of the character set forth, the combination with a platform and a guard railing extending thereabove, of a frame-engaging cross bar, and means connecting the bar and guard railing at spaced points adjustably for elevating and lowering the bar with relation to the platform, said bar being located above said platform.

1,336,284. SHOE-CLEANER. ROBERT J. CRAIG, Orange, N. J. Filed July 26, 1919. Serial No. 313,498. 1 Claim. (Cl. 15—46.)



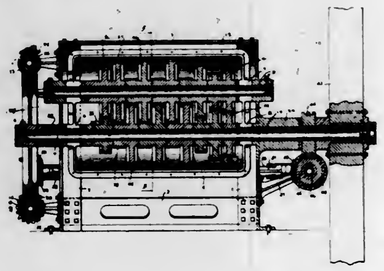
A shoe cleaner, comprising a receptacle having a dispensing end, said dispensing end having a slot therein with an enlarged opening, and a pad secured to the dispensing end over the slot and having an opening therein communicating with the opening in the dispensing end but of smaller diameter.

1,336,285. HYDROCARBON-BURNER. JAMES C. CRITCHETT, El Paso, Tex. Filed Feb. 12, 1919. Serial No. 276,556. 18 Claims. (Cl. 110—22.)



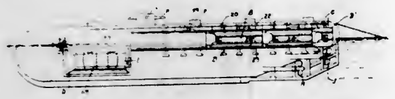
15. Apparatus of the character described, comprising a mixing chamber, means for supplying a mixture of crude oil and another fluid fuel in a finely divided form to said mixing chamber, means for supplying air under pressure to the rear end of said mixing chamber, and for discharging the mixed air and fuel from the front end of said mixing chamber, a hollow ring with a series of perforations on the interior thereof mounted in front of said mixing chamber, and means for supplying fluid fuel under pressure to said ring, substantially as described.

1,336,286. WORM-DRIVE. GEORGE DORFFEL, Oakland, Calif. Filed Nov. 14, 1918. Serial No. 262,489. 8 Claims. (Cl. 74—36.)



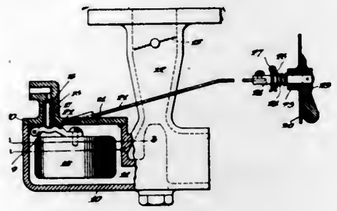
1. A driving mechanism comprising a driving shaft, speed multiplying mechanism connected with said driving shaft, a driven shaft connected with said speed multiplying mechanism, a worm wheel connected with said driving shaft, a pair of worms meshing with said worm wheel, said worms being on diametrically opposite sides of said worm wheel, and means for simultaneously rotating said worms.

1,336,287. SUBMARINE VESSEL. GEORGE DORFFEL, Oakland, Calif. Filed May 14, 1919. Serial No. 297,015. 17 Claims. (Cl. 114—16.)



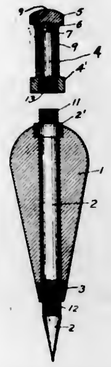
1. In combination, a submarine mother vessel, a plurality of independently operable submarine vessels associated with said mother vessel and arranged in sets along both sides thereof, said vessels of each set extending rearwardly of and laterally from said mother vessel, and means associated with said mother vessel for releasably carrying said independently operable submarine vessels.

1,336,288. CARBURETER. CLARENCE V. ELLIOTT, Baton Rouge, La. Filed May 13, 1919. Serial No. 296,889. 10 Claims. (Cl. 158—38.)



1. A receptacle having an inlet, a float controlled valve controlling passage through the inlet, and mechanical means adjustably automatically yieldingly resisting the closing of the valve under the action of the float.

1,336,289. PLUMB-BOB. PHILIP T. FAGRIE, Seattle, Wash. Filed May 24, 1919. Serial No. 299,655. 1 Claims. (Cl. 33—217.)



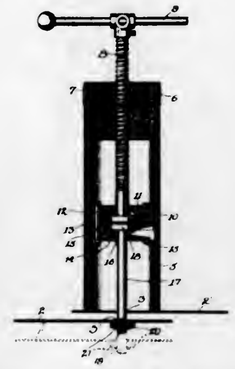
1. In a plumb bob, a body portion of heavy material, with a central core rod of harder metal, with center point at one end thereof and a flattened part at the other end, with both ends of such rod extending beyond the ends of the body, and threads on the extending ends of the rod, with an adjustable cap with a thread cut in an open end thereof, and a revoluble button pivotally fastened to the other end of the cap, a diagonal hole through the bottom, and a hole through the side wall of the cap, and a cord fixed in the latter hole and passing over the side of the cap and up through the hole in the button, with a flange on the end of the cap opposite the button.

1,336,290. ELECTRICAL FITTING. MORRIS F. FINKELSTEIN, New York, N. Y. Filed Feb. 8, 1919. Serial No. 275,810. 7 Claims. (Cl. 173—268.)



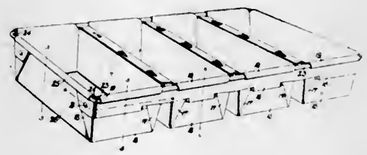
1. A device of the character described comprising a connector having binding screws for securing conductor terminals therein; a housing therefor laterally open to afford access to said binding screws; and a guard fixedly secured to said housing and providing protective covering for said screws bendable to and from screw-covering position.

1,336,291. PLATE-PULLER. SAMUEL R. GILMORE, Seattle, Wash. Filed June 12, 1919. Serial No. 303,654. 3 Claims. (Cl. 29—84.)



1. A plate puller comprising an abutment member formed of a piece of tubing, a bridge across one end thereof having a threaded bore, a slide operative in said tubing, a threaded member connected with said slide and having its threaded part engaging the threads in said bridge, a draw rod connected to said slide, and means for connecting said draw rod to the plates to be assembled.

1,336,292. BREAD-PAN. SAMUEL GOODFRIEND, Yonkers, N. Y. Filed Oct. 15, 1917. Serial No. 196,660. 13 Claims. (Cl. 53—6.)



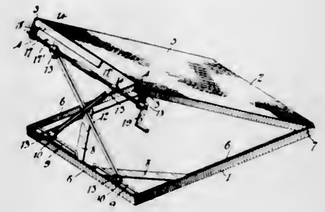
1. A structure of the class described including supporting bars and a pan hung on said supporting bars, the supporting bars presenting turned-over members and the said pan likewise presenting members turned about the members on the respective bars and terminating within the latter and lying against the same to constitute with said bar members multi-ply composite unitary members, so that the terminal portions of the members on the pan lie between the body of the bar and the turned over member thereof.

1,336,293. HOLDER FOR DISK RECORDS. FRANK GRAMMICH, Brooklyn, N. Y. Filed Sept. 16, 1919. Serial No. 324,179. 1 Claim. (Cl. 211—24.)



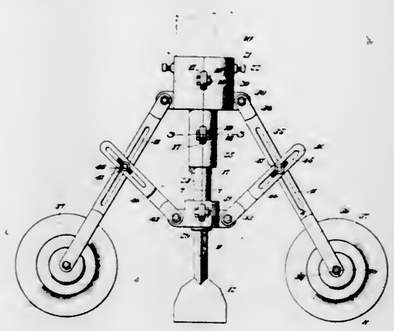
A holder of the class described including a box-like container having a closed back depressed within the plane of the rear edges of the sides of said container, a fixed upstanding lip on the container to the rear of said back and spaced from the latter, a member at the back of the container and hinged at its upper end to the latter to swing toward said back or to an outer inclined position to constitute a supporting leg, and a member hinged to said leg at its lower edge to fold parallel with the leg at the inner side of the latter or to be disposed transversely and extend in the direction of the back of the container, said hinged member presenting a terminal at approximately right angles thereto to extend downwardly and engage behind said lip when the leg and hinged member are in supporting position, the space between the leg and the back of the container when the said leg is in folded position accommodating the lateral terminal of the folding member so that said folding member and leg lie within the plane of the side edges of the container at the back of the latter.

1,336,294. BED-REST. AMANDES HACKMAN, Allentown, Pa. Filed July 19, 1919. Serial No. 311,913. 1 Claim. (Cl. 5—43.)



A device of the character described, comprising a rectangular angle iron base, a support pivotally connected at one end to the base, said support comprising an angle iron frame, wood fillers secured in the angle iron side members of the support, a sheet of flexible material secured across the side members of said support, perforated lugs at the free ends of the side members of the support, a screw threaded rod in said lugs, guide rods on the base, sleeves on the screw threaded rod and on the guide rods, and a toggle lever connecting said sleeves.

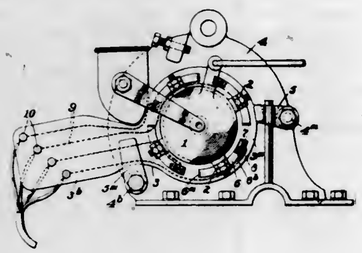
1,336,295. CALKING-TOOL. GEORGE H. HAMM, Athens, N. Y. Filed Jan. 14, 1919. Serial No. 271,012. 4 Claims. (Cl. 114—224.)



1. In a device for the purpose set forth, a reciprocatory calking tool spring influenced in one direction and having motor means for actuating the same in another direction against the influence of said spring means, wheels arranged to the opposite sides of the tool, supports therefor,

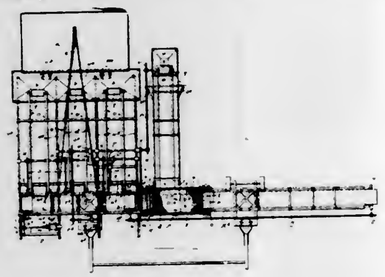
and adjusting means associated with said supports whereby to bring the wheels toward or away from each other to regulate the length of stroke of the calking tool.

1,336,296. TIMER ATTACHMENT. NORMAN ISACHSON, Albion, Idaho. Filed Feb. 18, 1919. Serial No. 277,884. 6 Claims. (Cl. 200—23.)



3. The combination with the cylindrical oscillatory member of a multi-cylinder engine timer having projecting posts, of a member having a ring shaped portion adapted to be slipped over said cylindrical portion, a plurality of spring contacts carried by said ring shaped portion, said contacts being curved on arcs of circles concentric with the center of said ring and adapted to make rubbing contact with the projecting binding posts, and means for clamping said member to the engine casing.

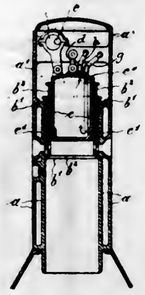
1,336,297. BEET SCREENING, PILING, AND LOADING MACHINE. FRANK JONES, Salt Lake City, Utah. Filed Aug. 19, 1919. Serial No. 318,453. 7 Claims. (Cl. 130—32.)



1. A machine of the character described, having a main frame; a compartment hopper supported on said frame; a series of parallel inclined conveyers, said hopper overlying the receiving ends of said conveyers and having each of its compartments communicating with one of the conveyers; a conveyer extending substantially at right-angles to the first-named conveyers and cross-wise of the discharge ends thereof; a screen in line with and receiving material from said cross-conveyer; a third conveyer extending parallel with the said series of conveyers and substantially at right-angles to the cross-conveyer and screen, and receiving the undersize from the latter; a conveyer substantially in line with the cross conveyer and screen and succeeding the latter and receiving the oversize therefrom, and means for operating said conveyers.

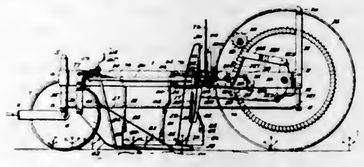
1,336,298. INTERNAL-COMBUSTION ENGINE. HENRI VICTOR JULES JOUFFRET, Paris, France. Filed Aug. 25, 1917. Serial No. 188,204. 3 Claims. (Cl. 123—75.)

1. In an internal combustion engine of the class described, the combination of a cylinder, an enlarged head for such cylinder, a sleeve valve sliding in said cylinder and having the top edge thereof entering the enlarged head and a fixed guide piston with which said sleeve has



sliding association and hingedly connected to the said head and acting as an internal cylindrical projection of the cylinder head, the piston being formed with a closed chamber.

1,336,299. AUTOMATIC HOEING-MACHINE. CHARLES LALOR KENNEDY, Columbia, S. C. Filed Mar. 10, 1919. Serial No. 281,599. 26 Claims. (Cl. 97—45.)



1. The combination of a wheeled frame, hoeing means carried thereby, actuating means for the hoeing means, a trigger for putting said actuating means in operation; said trigger being constructed and arranged to encounter and be actuated by a plant, means for resetting the actuating means and the trigger subsequently to an operation of the latter, and a fender complementary to the trigger.

1,336,300. BOLTER-SCREEN ATTACHMENT. JAMES M. KENNEDY, Columbus, Ohio. Filed Apr. 9, 1919. Serial No. 288,755. 1 Claim. (Cl. 83—38.)

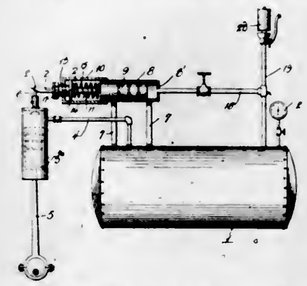


In a bolting apparatus, a frame including a relatively long end portion, and a relatively short end portion, a sieving element supported on the frame, a distributing bar including a base, and a right angled portion, said distributing bar being supported on the frame adjacent the relatively short end portion thereof, and said distributing bar being disposed at an angle with relation to the end portions of the frame.

1,336,301. AUTOMATIC AIR-PRESSURE CONTROL. ALVIN C. KINGSBURY, Gig Harbor, Wash. Filed Feb. 20, 1918. Serial No. 218,349. 1 Claim. (Cl. 230—24.)

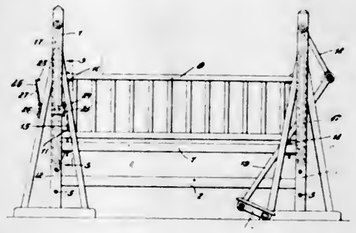
A pressure controlling device including the combination with a pressure tank and an air presser of means having communication with said pressure tank and associated with the intake valve of said air compressor, said means comprising a sectional housing, each section comprising a cylindrical portion having their inner open ends detachably engaged with each other and their outer closed ends provided with openings therein, one of said openings being

connected to the pressure tank, the other being screw threaded, an adjusting nut having its shank engaging the screw threads of this opening, a follower in said housing and adjacent the inner projecting shank end of the adjusting nut, a plunger movably disposed in the opposite sectional housing, a coil spring disposed between said follower and said plunger, a valve regulator rod movably sup-



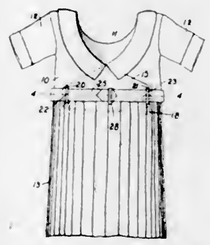
ported through said adjusting nut, engaged at one end to said plunger and adapted at the other end to override the valve stem of the intake compressor valve said plunger adapted, upon excess pressure in said tank to be forced against the tension of said spring for projecting said valve rod into such overriding engagement with the valve stem, whereby said valve opens to permit escape of the air from said compressor and prevent further pressure in said tank.

1,336,302. CRADLE. CARL KREY, Battle Creek, Mich. Filed Dec. 12, 1919. Serial No. 344,389. 2 Claims. (Cl. 5—57.)



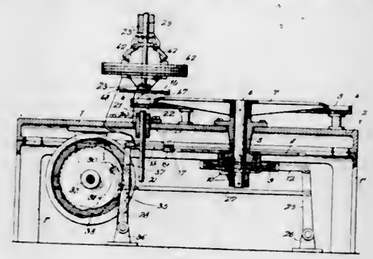
1. The combination in a cradle, of a stand having standards, a swinging cradle body, suspension arms connecting said body with said standards, a rod arranged in a sleeve bearing carried by one standard and movable transversely endwise and having a keeper at its inner end adapted to receive one of the suspension arms and also having an eye at its outer end, and a vertically swinging fastener pivoted to one of the standards and having a lateral finger-piece and also having a depending portion to enter the eye in the rod and thereby detachably hold the rod in engagement with the suspension arm.

1,336,303. GARMENT. MABEL M. LAUZON, Chicago, Ill. Filed May 21, 1919. Serial No. 298,646. 6 Claims. (Cl. 2—145.)



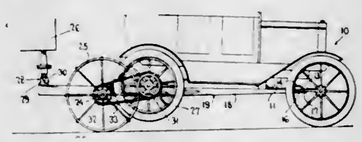
5. A garment having overlapping front portions, the outer portion being provided with slits and the inner portion with loops extending through the slits, and a flexible band like member passing through the loops and having its ends secured together.

1,336,304. CONVEYING MECHANISM. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed July 1, 1919. Serial No. 308,045. 5 Claims. (Cl. 193—1.)



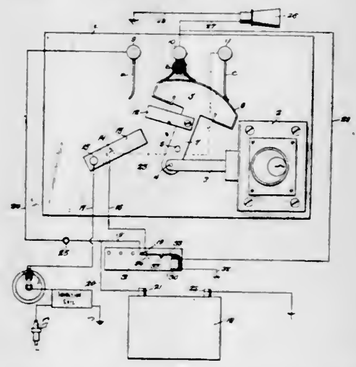
5. A conveying mechanism of the character described, comprising a conveying member provided with cups for receiving the article to be conveyed, a pawl and ratchet mechanism for stepping the conveying members through the space of a cup at each movement of said pawl and ratchet mechanism including means to partially retract the pawl and mechanism to positively reverse said member an amount equal to the retraction of said pawl.

1,336,305. AUTO ATTACHMENT. JESSE LINES, Sabetha, Kans. Filed Aug. 17, 1917. Serial No. 186,769. 1 Claim. (Cl. 180—16.)



In a means for converting an automobile into a tractor, the combination with the angle radius bar for the front axle of an automobile, of a bracket arranged on the radius bar having angularly arranged depressions in the under face thereof receiving therein angle irons of the radius bar, and depending yokes adjacent the ends thereof, and said yokes designed to receive therein the ends of a wheeled frame which is adapted to underlie the rear axle of the automobile and to elevate the wheels thereof.

1,336,306. AUTOMOBILE PROTECTIVE DEVICE. OTTO C. LOHSE, Bloomington, Ill. Filed July 9, 1917. Serial No. 179,508. 1 Claim. (Cl. 177—314.)



An automobile protective device, embodying an ignition circuit, a service ignition switch controlling said circuit,

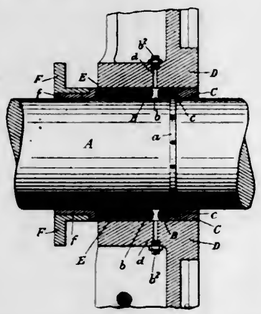
an audible alarm circuit, means for breaking the alarm circuit and simultaneously shunting the ignition circuit through the audible alarm, lock mechanism controlling said means, and an electrically controlled latch which acts to automatically lock the service ignition switch closed.

1,336,307. PLANT-STAND. DORR F. LOUDON, New York, N. Y. Filed Oct. 11, 1919. Serial No. 329,953. 4 Claims. (Cl. 47—25.)



1. A plant stand, comprising a standard provided with a head, a pot holder mounted to swing on the said head to assume an annular position relative to the vertical axis of the said head, adjustable means on the said head engaging the said pot holder for holding the latter in the adjusted angular position and turning means to allow of turning the pot holder relative to the said standard at the time the pot holder is in vertical or in angular position.

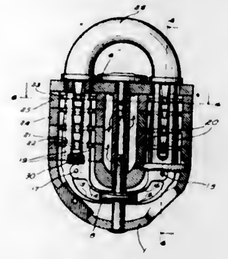
1,336,308. GLAND AND PACKING OF CENTRIFUGAL SAND-PUMPS. GASCOIGNE LUMLEY, Lagos, Nigeria, West Africa. Filed Dec. 28, 1918. Serial No. 268,766. 3 Claims. (Cl. 286—27.)



1. In apparatus such as a centrifugal sand-pump, the combination with a shaft, a bearing in which it is rotatable, a packing-box and packing at one end of the said bearing, and a neck-bush at the other end of the said bearing, of a ring secured to the shaft so as to be incapable of longitudinal movement thereon, the neck-bush being grooved to accommodate said ring, and leave a clearance between it and the groove, and means for admitting liquid under pressure to pass between the said packing-box and neck-bush and through the space between the said ring and groove toward the interior of the pump.

1,336,309. PADLOCK. PETER MALACZYNSKI, Brooklyn, N. Y. Filed Sept. 23, 1919. Serial No. 325,734. 5 Claims. (Cl. 70—113.)

1. A combination padlock comprising a casing, a shackle having a pair of locking extensions projecting into part of the casing, a plurality of locking rings for locking said extensions, each of said rings being rotatable so as to be moved into and out of adjustment for locking



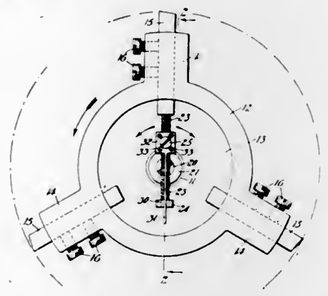
and unlocking the extension, a pair of auxiliary locking bars for each of said extensions, and manually operated means for shifting said bars when the locking rings are alined in an unlocked position.

1,336,310. SIPHON-STARTER. AUGUST H. MARHENKE, New York, N. Y. Filed June 3, 1918. Serial No. 237,984. 3 Claims. (Cl. 137—20.)



3. A siphon starter comprising a rubber body enlarged and corrugated a short distance from each end forming reduced necks at the ends, nipples in the necks, the nipple at one end being adapted to enter the long leg of a siphon tube, and a flexible flattened tubular valve member on the other nipple.

1,336,311. BORING-BAR. JOSE REYES MARTIN, Brooklyn, N. Y. Filed Nov. 22, 1918. Serial No. 263,738. 7 Claims. (Cl. 77—58.)



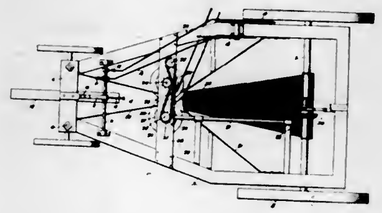
1. In a boring bar, a head provided with a plurality of radially disposed cutter holders, and a single means for and singly engaging the cutters to accurately adjust the same in their holders.

1,336,312. GARMENT-SUPPORTER. FRANK W. MILLER, Bethel, Mo. Filed Aug. 10, 1917. Serial No. 185,551. 1 Claim. (Cl. 24—245.)



The herein described garment support including a button and a loop designed to engage the button, the said loop being of a length approximately equal or slightly greater than the shank of the button and of a less length than the head of said button, said button being wholly constructed of rubber, comprising a substantially rectangular body, a centrally arranged longitudinally extending shank of a less length than the body, a head formed on the outer edge of the shank and of a greater width than the shank, said head having its ends cut inwardly to the ends of the shank to provide elastic lips at the ends of the said head which are designed to yield to permit of the arrangement of the loop on the shank, and thereafter through their inherent elasticity to return to normal position for retaining the said loop on the said shank.

1,336,313. BEET-HARVESTER. CHARLES NELSON and LEWIS A. COFFEEN, Denver, Colo. Filed Dec. 28, 1918. Serial No. 268,615. 1 Claim. (Cl. 55—9.)



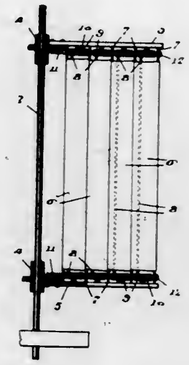
A beet harvester comprising a wheel supported frame, a plow carried by the frame, shafts journaled upon the frame and arranged at opposite sides of the plow, guides attached to the frame and extending between the shafts, and extending to one side of the frame, disks carried by the shafts and means for rotating the disks in opposite directions.

1,336,314. SPRING. GUST R. NYQUIST, Fresno, Calif. Filed May 14, 1917. Serial No. 168,507. 10 Claims. (Cl. 267—47.)



1. A spring comprising a plurality of leaves, each leaf being folded to form superposed layers, and each leaf having a shoulder thereon engaging with a part on the adjacent leaf.

1,336,315. AIR-MOTOR. EARL PLEMMONS, Ashburn, Ga. Filed July 21, 1919. Serial No. 312,201. 1 Claim. (Cl. 170—23.)



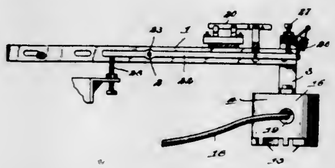
A device of the class described comprising a shaft, hubs carried thereby, arms radiating from the hubs, vanes pivotally mounted in the arms, disks journaled in the arms, rods carried by the disks for engaging the vanes, a weighted bar connected with the disks on each arm and a spring connecting each of said weighted rods to the hub.

1,336,316. PNEUMATIC PAINTBRUSH. FRANK POLCHO, Melvin, Mich. Filed Feb. 21, 1917. Serial No. 150,096. 1 Claim. (Cl. 251—54.)



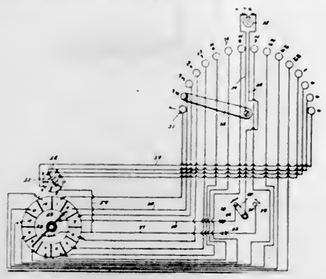
A controlling device for a pneumatic paint brush, comprising a tubular casing, a slotted rotatable member operating therein, an element having a segmental toothed portion carried by the rotatable member, a slidable device provided with a rack engaging the toothed element, the slidable device having a guiding slot therein, means engaging the slot last named, an offset device on one end of the slidable device, and an adjustably mounted spring engaging the offset device.

1,336,317. TRANSFER DEVICE FOR FRUIT-JAR MACHINES. RUSSELL BRYAN POTTORFF, Waynesboro, Pa. Filed May 24, 1919. Serial No. 299,471. 5 Claims. (Cl. 49—14.)



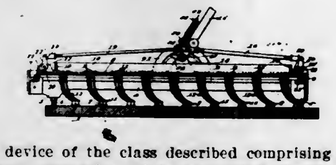
1. In combination with the transfer arm of a glass jar-forming apparatus, of electromagnetic means carried by said arm for engaging the iron ring of the mold and means for automatically breaking the circuit to the electromagnetic means when the arm reaches the blow table.

1,336,318. ELECTRIC CLOCK AND SIGNAL SYSTEM. HERMAN C. PREY, Watertown, S. D. Filed Dec. 19, 1917. Serial No. 207,916. 2 Claims. (Cl. 161—2.)



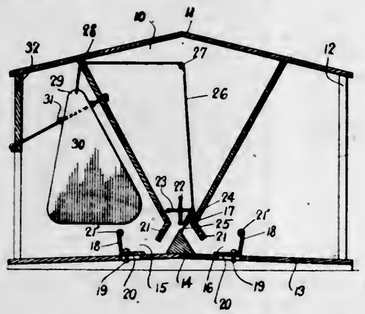
2. A signal system embodying a time operated circuit closing mechanism, said mechanism including a plurality of radially arranged contacts, a pair of rotatable arms disposed concentrically of the contacts and adapted to successively engage the latter, a manually operated selective circuit controlling device including a plurality of contacts, each of said contacts being electrically connected to one of the radially arranged contacts, a switch arm adapted to engage one of the second mentioned contacts to determine the particular radially arranged contact to be included in a circuit to be closed by one of the rotatable arms and means also included in the manually operated device for determining the particular rotatable arm included.

1,336,319. MACHINE FOR PLACING WASHERS IN HEEL-MOLDS. BENJAMIN W. MARTIN, Zanesville, and HOMER SAMS, Akron, Ohio. Filed Aug. 25, 1919. Serial No. 319,550. 5 Claims. (Cl. 18—1.)



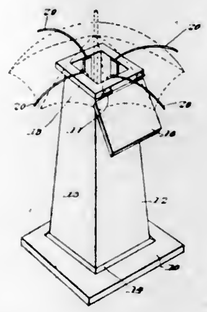
1. A device of the class described comprising a frame, a washer supporting plate supported thereby, curved tubes carried by said plate and receiving the washers therefrom, spring carriers for holding the washers in said tubes, means for lowering the plate to place the washers on the pin and means for moving the plate laterally to release the washers from the tubes.

1,336,320. FEEDER. CHARLES F. SCHUMACHER, Hillsboro, Ohio. Filed Aug. 26, 1919. Serial No. 319,880. 4 Claims. (Cl. 119—54.)



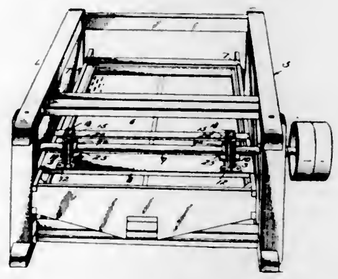
1. A feeder having a hopper provided with an outlet throat and a trough for receiving material from the throat, an agitator mounted in the throat of the hopper and yieldingly held in its normal position, and a pendant vibratory crowding board disposed adjacent to the trough for movement in opposite directions from a neutral position and connected with the agitator for moving the latter out of normal position.

1,336,321. COMBINED UMBRELLA STAND AND PEDESTAL. HENRY CARL STAHL, Pompeys Pillar, Mont. Filed Aug. 10, 1917. Serial No. 185,543. 1 Claim. (Cl. 45—33.)



An article of furniture comprising a standard forming a storage receptacle, a flat base portion, a cover for the receptacle, occupying a horizontal position when closed, a molding surrounding the upper edges of the walls of the receptacle, means for hinging the cover to the molding, grooved guiding strips within the standard and adjacent to the walls thereof, and a plurality of umbrella supporting arms movable vertically within the grooves of the strips, and upwardly and outwardly with reference to the standard, to an approximately horizontal operative position, the molding supporting the arms when extended, and supporting the cover when the latter is closed.

1,336,322. SHAKER-OPERATING MECHANISM. ALBERT L. STEERE, Petersburg, Va. Filed Oct. 10, 1919. Serial No. 329,678. 6 Claims. (Cl. 74—14.)



1. The combination with a shaker and operating shaft, of yokes oppositely disposed on a portion of the shaker and having reciprocating blocks mounted therein, and eccentrics on the shaft and individually engaging the blocks, the inner opposing portions of the yokes, the sides of the blocks and the eccentrics all having an outward taper.

1,336,323. COUPLING. ELVIN MACE STOUT, Nevis, Minn. Filed Apr. 21, 1919. Serial No. 291,443. 1 Claim. (Cl. 285—67.)

An air hose coupling for train lines comprising a casing having a flared outer end and a restricted inner end

to provide a conical air chamber, said chamber communicating with a cylindrical extension, a flexible end wall for the outer end of the chamber, said end wall having an opening therein, a rubber lining for said air chamber, a pipe connected to the inner restricted end of the rubber lining and communicating with the air supply, a casing



surrounding said pipe, a universal connection between the air chamber and the pipe casing, a telescopic spring controlled joint in said pipe casing, a cut off valve for controlling the admission of air to the air chamber from the train line and means for locking the coupling members together.

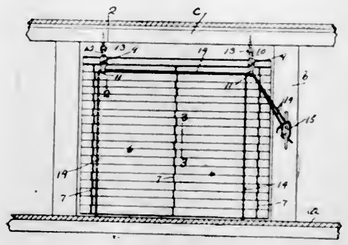
1,336,324. METAL BUILDING UNIT. JAMES DICKSON WARREN, South Melbourne, Victoria, Australia. Filed Oct. 7, 1919. Serial No. 329,045. 9 Claims. (Cl. 189—1.)



1. A building unit consisting of a triangular metal frame having two acute angle junction pieces, one of which is provided with a projecting coupling cheek having a lower face and an end face at right angles to said lower face, a shoulder projecting from the inner or abutting face of said cheek and having an inclined thrust surface, the other junction piece having a coupling cheek which is provided with an end face disposed parallel to said inclined thrust surface, a shoulder projecting from the inner or abutting side of the latter cheek, and having an upper face disposed parallel to said lower face and a thrust face parallel to said end face of the first mentioned cheek for the purpose set forth.

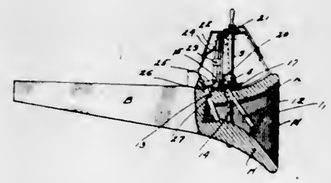
1,336,325. PORCH-SHADE. CLYDE W. WARREN, Sauk Rapids, Minn. Filed Feb. 3, 1919. Serial No. 274,620. 3 Claims. (Cl. 156—17.)

3. The combination with porch shade made up of flexibly connected slats, hanger brackets secured to the upper slat of the shade, said brackets having hook-shaped upper ends and cord-guides on their lower portions, over-head shade supporting guides, primary shade adjusting cords attached to said brackets, extended under the shade and through the cord-guides of said hanger-brackets, for rolling up and unrolling the shade, and secondary cords passed through said overhead guides and attached to the hooked ends of said hanger-brackets, for bodily adjusting the



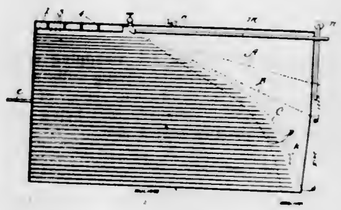
shade, the hooked ends of said hanger-brackets being engageable at will with said over-head cord guides.

1,336,326. COUPLING. THOMAS WHITE, Talmage, Ky. Filed Oct. 5, 1918. Serial No. 257,076. 5 Claims. (Cl. 213—50.)



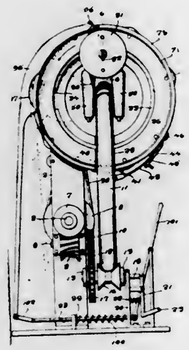
1. In a car coupling, the combination with a vertically movable pin mounted through the draw head and having a collar at its mid-length, a framework superposed upon the draw head and having a guide for the upper end of said pin and an upright slotted member adjacent said pin, and a latch movably mounted on the top of the framework and adapted to engage beneath said collar when the pin is raised; of a dog having a headed stud slidably mounted within said slot, the dog normally underlying said collar, means for causing the rise of the dog by the entry of the link in the mouth of the draw head, and means for tilting the dog to disengage it from the collar after the pin has been raised.

1,336,327. CONCENTRATING-TABLE. CHARLES WILLIAM WRIGHT, Washington, D. C. Filed July 23, 1915. Serial No. 41,429. 4 Claims. (Cl. 83—88.)



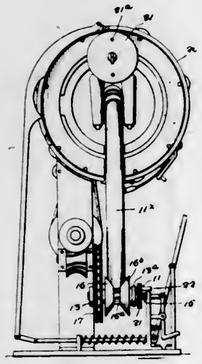
1. A concentrating table on the surface of which the riffles are terminated so as to form a diagonal substantially straight line over the upper half of the table and a convex curved line relative to the lower side of the table over the lower half of the table, the straight and curved lines of termination of the riffles together forming a convex line, the table having a dressing zone upon which all of the riffles open.

1,336,328. TIRE WRAPPING AND UNWRAPPING APPARATUS. CRAWFORD ZIEGLER, Barberton, Ohio. Filed May 26, 1919. Serial No. 299,696. 8 Claims. (Cl. 242—6.)



4. In a tire wrapping and unwrapping machine, the combination of a rocking cradle having rolls adjacent to its ends, and manual means for latching the cradle.

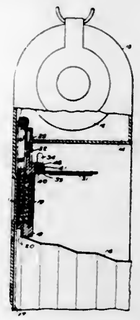
1,336,329. TIRE WRAPPING AND UNWRAPPING APPARATUS. CRAWFORD ZIEGLER, Barberton, Ohio. Filed Nov. 1, 1919. Serial No. 335,145. 6 Claims. (Cl. 242—6.)



1. An organized mechanism for wrapping or unwrapping a tire, comprising a cradle having rolls adjacent to its ends and adapted to be driven; each of said rolls having inwardly beveled members and being adjustable as to width and adapted to seat a tire.

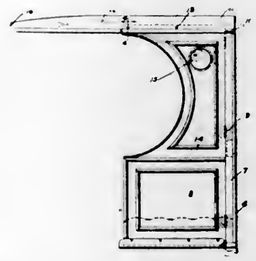
1,336,330. INSCRIPTION-PRINTING ATTACHMENT FOR CAMERAS. SAMUEL G. ZUCKERMAN, New York, N. Y. Filed June 16, 1915. Serial No. 34,398. 4 Claims. (Cl. 95—1.1.)

1. In combination with a camera having a folding bellows and a containing recess for the same; a frame extending transverse said recess and supporting one of the inner edges of said bellows, said frame embodying a light passage formed lengthwise thereof; means for temporarily obstructing the passage of light through said frame; a removable translucent inscription plate mounted in said frame and across said passage for juxtaposition to a



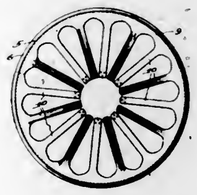
sensitized member carried by said camera; and means manually operative for moving said frame to and from said sensitized member.

1,336,331. AUTO-CAB. JOHN ANDERSON, Seattle, Wash. Filed Apr. 5, 1919. Serial No. 287,692. 8 Claims. (Cl. 296—102.)



1. A collapsible body for vehicles including a base, back, side and top portions some of which are hingedly connected together, and means coöperating between the side, top and base portions for retaining all of said parts in applied position.

1,336,332. METHOD OF PRODUCING METAL WHEELS. JOSEPH A. ANGLADA, Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1918. Serial No. 235,114. 1 Claim. (Cl. 29—174.)



The method of producing metal vehicle wheels from sheet metal, that consists in making from sheet metal a wheel body blank comprising a periphery forming portion and a plurality of spokes projecting therefrom, then rolling the blank into circular form with the spokes extending inwardly from the peripheral portion, then offsetting alternate spokes, then securing the spoke ends to a hub member, and finally stretching or expanding the peripheral portion to tension the wheel as a whole.

1,336,333. METHOD OF PRODUCING WHEELS. JOSEPH A. ANGLADA, Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1918. Serial No. 235,115. 1 Claim. (Cl. 29—174.)



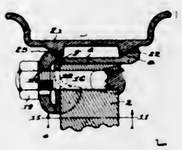
The herein described method of making sheet metal wheels that consists in stamping from sheet metal a blank comprising a solid middle portion and spokes extending from opposite edges thereof, then rolling the blank to cylindrical form and securing it in that condition, then swaging or expanding the ends of the solid middle portion and thus causing the spoke portions to project radially therefrom, then securing the spoke ends to a peripheral metal member and finally stretching or expanding said member to a predetermined circumferential dimension, thereby tensioning the wheel as a whole.

1,336,334. METAL WHEEL. JOSEPH A. ANGLADA, Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1918. Serial No. 235,116. 6 Claims. (Cl. 21—69.)



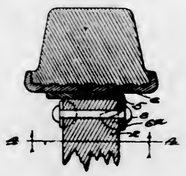
1. The herein described metallic vehicle wheel comprising a hub having a flange, an encircling, concentrically spaced wheel band, and outer and inner spoke blanks extending between and secured respectively to the hub and wheel band, the inner spoke blank being secured to the hub flange in a plane substantially parallel to the vertical plane of the wheel, and the outer spoke blank being secured to the body of the hub.

1,336,335. MOTOR-VEHICLE WHEEL. ERLE KING BAKER, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 14, 1918. Serial No. 262,552. 1 Claim. (Cl. 21—69.)



A semi-wood wheel of the kind described characterized by a fixed rim presenting a back flange and having a radial front flange deformed into spoke sockets and felly imitating and bracing portions, the whole being made from a strip of metal that is tapered in cross section and said back flange being formed from the thick edge of the strip.

1,336,336. SEMIWOOD WHEEL FOR MOTOR-VEHICLES. ERLE KING BAKER, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 14, 1918. Serial No. 262,553. 1 Claim. (Cl. 21—69.)



A semi-wood wheel for motor vehicles comprising an endless metal tire base, in combination with a metal ring which is in permanent firm frictional engagement with the inner periphery of said base, said ring being provided with an inwardly extending flange which at intervals is shaped into spoke-retaining sockets and intermediate felly-forming flanges, a body of wooden spokes radiating from a common center, said spokes being of the same number as the sockets in said flanges and having their ends held in respective sockets, metal fastenings individually securing said spokes in respective socketed portions of said flange, the ends of said spokes being presented to and sealed by the inner periphery of said ring, and the body of spokes as a whole being held under compression by the combined tension of said ring and said tire base.

1,336,337. TIRE-CARRYING WHEEL FOR MOTOR-VEHICLES. ERLE KING BAKER, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 14, 1918. Serial No. 262,554. 5 Claims. (Cl. 21—69.)



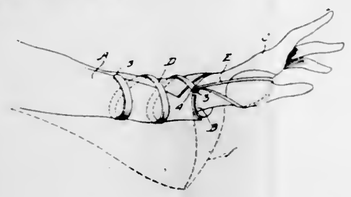
1. A semi-wood wheel having wooden spokes, in combination with a metal peripheral tire carrying rim member which is provided with an integral flange upon its inner periphery and set back from its outer edge, which flange is deformed to fit and provide sockets for the ends of said spokes, substantially as described.

1,336,338. SEMIWOOD WHEEL FOR MOTOR-VEHICLES. ERLE KING BAKER, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 11, 1918. Serial No. 266,253. 8 Claims. (Cl. 21—69.)



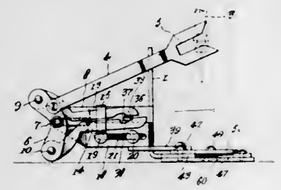
1. A semi-wood wheel, comprising a plurality of radial wooden spokes, a peripheral metal band tightly fitting over the ends of the spokes and having an inwardly extending flange, and means spacing the inwardly extending flange from the spokes.

1,336,339. SLEEVE-GRIP. BESSIE BEALE, Broadstone, England. Filed May 23, 1919. Serial No. 299,269. 11 Claims. (Cl. 2—94.)



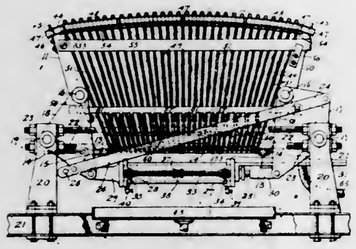
2. A sleeve grip comprising in combination, a coiled sleeve embracing member of inherently resilient material, an eyelet at one end portion of said coiled member, and a looped flexible member trained through said eyelet for connection with the hand of the user.

1,336,340. SEWING-MACHINE ATTACHMENT. CLOVIS BERGERON, Morganza, La., assignor of one-half to Emerson W. Singletary, Morganza, La. Filed Apr. 24, 1919. Serial No. 292,344. 2 Claims. (Cl. 112—160.)



1. A sewing machine attachment of the character described including reciprocating bars, means whereby said bars may be actuated from the movable parts of the sewing machine, oppositely acting claws carried by said bars, a projection entering between said bars and having edges arranged to be engaged by said oppositely acting claws, a reciprocating bar carrying and movable with said projection, a bell crank lever, a connection between the last named bar and one arm of said bell crank lever, a laterally shifting cloth plate, and a loose connection between said cloth plate and the other arm of said bell crank lever, substantially as described.

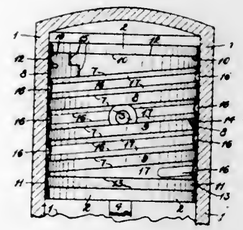
1,336,341. PRESSING APPARATUS. JOHN J. BERRIGAN, Orange, N. J., assignor to Henry R. Worthington, a Corporation of New Jersey. Filed Mar. 9, 1918. Serial No. 221,378. 16 Claims. (Cl. 100—50.)



1. In a pressing apparatus, the combination with coöperating pressing members mounted for gravital movement downward, and means for causing the downward movement of the pressing members to bring said members closer together, of means, mounted to be free from the weight of the press, for checking the downward movement of the pressing members.

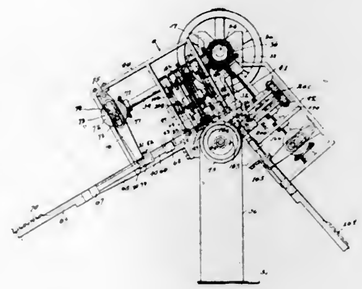
11. In a pressing apparatus, a pair of coöperating pressing members arranged to have a general up and down movement, lever members for causing said pressing members to mutually approach and recede as they descend and rise, controlling means for the pressing members connected with said lever members to float therebetween, and a relatively large number of supplemental pressing members associated with said first named pressing member.

1,336,342. MEANS FOR PACKING AND LUBRICATING THE PISTONS OF INTERNAL-COMBUSTION AND OTHER ENGINES. GEORGE BLANKEFIELD, Benoni, Transvaal, South Africa, assignor of one-sixth to Alfred Edward Reid, one-sixth to Israel Kuper, and one-sixth to Paca Cecil Gordon, Benoni, Transvaal, South Africa. Filed Sept. 18, 1918. Serial No. 254,611. 10 Claims. (Cl. 74—109.)



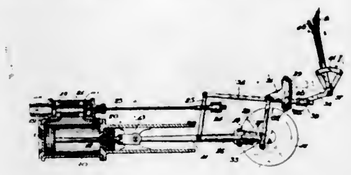
1. In combination, an engine cylinder, a piston in said cylinder, said piston having a circular groove near each end and a helical groove joining said circular end grooves, a packing means in said circular and helical grooves, said means comprising a pair of rings each connected to a helical part.

1,336,343. FABRIC-MAKING MACHINE. HARVEY E. BROWN, St. Louis, Mo., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed June 17, 1916. Serial No. 104,164. 27 Claims. (Cl. 140—7.)



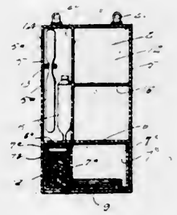
1. In a machine for making wire fabric, the combination of means for successively attaching fabric units to the edge of a completed fabric portion, means for applying connectors to the adjutant units thus attached, and means for causing relative motion between the said unit-attaching means and the said fabric in a direction substantially parallel to said fabric edge.

1,336,344. REVERSING VALVE-GEAR. WILLIAM E. BROWN, Detroit, Mich., assignor, by direct and mesne assignments, to Brown Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 16, 1918. Serial No. 212,057. 8 Claims. (Cl. 121—97.)



1. A valve gear, comprising a crank shaft, an eccentrically mounted pin thereon, members connected with said pin and extending in directions approximately at right angles to each other, a reversing link to which one member is connected, a lever connected at one end to the other member, a radius rod connecting the other end of the lever with the link, and a valve rod having the lever fulcrumed thereon.

1,336,345. DENTAL TOILET-CASE. GEORGE T. CORNELIUS, Monessen, Pa. Filed Apr. 26, 1918. Serial No. 230,954. 1 Claim. (Cl. 45—135.)



A toilet cabinet constructed for individual use comprising a receptacle having a plurality of compartments, one of said compartments being arranged to receive a toothbrush or the like and having a plurality of openings formed in the lower wall thereof, a sliding drawer arranged in the cabinet below the compartment containing the toothbrush, and a sterilizer compartment carried by the drawer and having a plurality of openings formed in the upper wall thereof arranged to register with the openings formed in the lower wall of the toothbrush compartment when the drawer is in operative position, so as to permit the toothbrush compartment to communicate with the sterilizer compartment for keeping the toothbrushes in a sanitary condition.

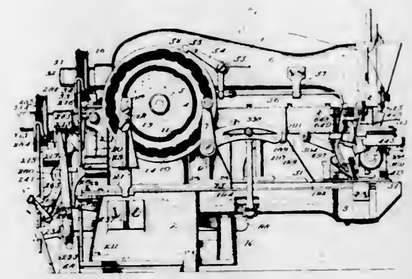
1,336,346. BUTTON-SEWING MACHINE. JOHN W. DARLEY, Jr., Baltimore, Md. Substitute for application Serial No. 209,156, filed Dec. 27, 1917. This application filed June 28, 1918. Serial No. 242,398. 251 Claims. (Cl. 112—110.)

1. In a button sewing machine, the combination of sewing mechanism, winding mechanism, knot tying mechanism, cutting mechanism, and means for automatically operating said mechanisms, substantially as described.

105. In a button sewing machine, the combination of sewing mechanism, including a button chuck and presser plate, a cam case supporting said button chuck, a bottom plate, and means for moving said cam case, button chuck and presser plate together vertically in relation to said bottom plate, substantially as described.

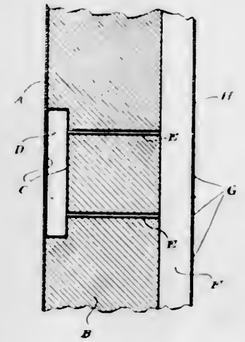
176. In a button sewing machine, the combination of sewing mechanism, an extension lever, cutting mechanism, and means to advance said cutting mechanism by the movement of said lever, substantially as described.

210. In a button sewing machine, the combination of a presser plate, cutting mechanism including a lever provided with stops to limit its motion in both directions and an operating handle, said lever terminating at its lower end in an enlarged head, a spring pressed latch pivotally mounted on said head, a pair of cutting blades, one blade being pivotally mounted on said head and the other blade pivotally mounted on said first named blade and adapted



to slide on said presser plate, a lever pivotally mounted on one of said blades and engaging the pivot point of the other of said blades, a spring one end of which is secured in said head and the other end of which is coiled around the pivot point between the two blades and enters a projection in said second named lever, and a second spring holding said blades in contact with each other, substantially as described.

1,336,347. HEAT-RESISTING SAFE OR CABINET. RALPH H. DICK and CARL F. WOLTERS, Marietta, Ohio, assignors to The Safe-Cabinet Company, Marietta, Ohio, a Corporation of Ohio. Filed June 12, 1918. Serial No. 239,534. 3 Claims. (Cl. 109—2.)

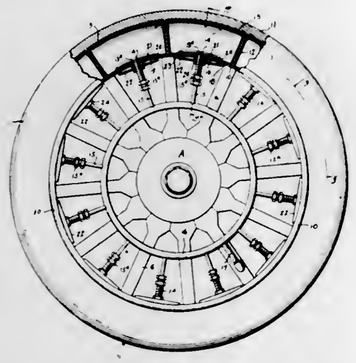


1. A fire-heat resisting document-preserving cabinet or safe comprising an outer metal wall, a heat insulation lining disposed adjacent thereto and containing material adapted to liberate moisture under high temperature, a container adjacnet to a portion of said outer wall disposed between it and said lining and containing material which under the action of heat liberates gas which is a non-supporter of combustion, and a conduit extending from said container through said lining and permitting the quick passage of said non-supporting gas to the interior of the safe.

1,336,348. PNEUMATIC TIRE. EDWIN GEORGE FIDO, Bombay, India. Filed Mar. 11, 1919. Serial No. 281,936. 1 Claim. (Cl. 152—22.)

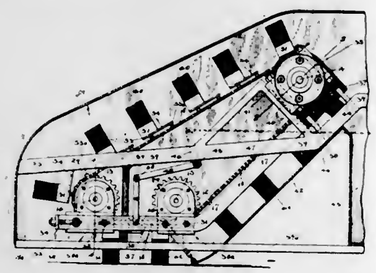
The combination with a vehicle wheel having a rim thereon, of a tire casing divided into separate chambers,

said rim having openings therethrough to said chambers, said openings flaring outwardly, a cover plate forming a closure for each of said openings and presenting bevel edges corresponding with the flare of the openings, separate inner tubes for the chambers of the casing, a tire valve for each inner tube and each extending through the cover plate, said valves having heads and the respective inner tubes being clamped between said heads and the cover plates, a nut on each valve stem adjacent to the



cover plate to force said plate into clamping position, a second nut on said stem, and a flanged washer on the stem between said nuts and extending laterally beyond the cover plate a distance to engage the inner side of the said rim so that tightening of the second nut will draw said cover plate into wedging engagement in the rim opening provided therefor and prevent movement of the cover plate into the adjacent tire chamber when the inner tube of said chamber is deflated.

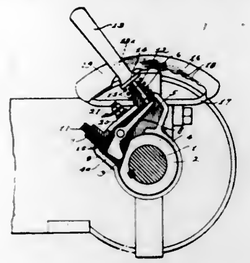
1,336,349. SWEEPER. BRUCE FRAME, Portland, Oreg. Filed Apr. 15, 1918. Serial No. 228,784. 4 Claims. (Cl. 15—17.)



1. In a sweeper, a power driven shaft universally movably mounted in a casing; frame members secured to said casing and rotatable thereabout; guideways upon said casing; a tail shaft universally movably journaled upon said frame members; sprockets upon said shafts; endless chains upon said sprockets; brooms upon said chains; a vehicle frame; guides on said vehicle frame coacting with said guideways; and means to adjust and secure said casing upon said guides.

1,336,350. SPARK-CONTROLLING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. JOHN F. GORMAN, Portland, Oreg. Filed Sept. 16, 1918. Serial No. 255,200. 19 Claims. (Cl. 200—31.)

3. In combination, a driven actuating member, means carrying fixed and movable contact members and movable therewith as a unit relative to said driven actuating member, said driven actuating member being adapted to intermittently actuate said movable contact member relative to said fixed contact member, and means for mov-



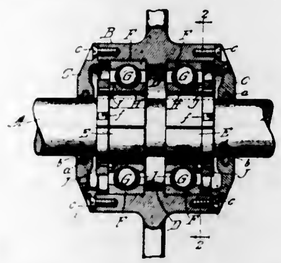
ing said fixed and movable contact members as a unit relative to said driven actuating member, said means also having connections for moving the movable contact member relative to the fixed contact member.

1,336,351. REGISTERING WEIGHING-SCALE. HOSEA HATHAWAY, Brookline, Mass. Filed Mar. 26, 1919. Serial No. 285,168. 16 Claims. (Cl. 265—28.)



1. A weighing scale comprising load-carrying means movable by a load applied thereto, a supporting structure for said means, yielding resistance means normally supporting the load-carrying means in an initial position, a pointer-carrying arbor journaled in a fixed bearing on the supporting structure, a fixed dial concentric with said arbor, a rotatable annular dial concentric with the fixed dial, and torque-transmitting connections between the load-carrying means, the arbor, and the annular dial, operable by the depression of the load-carrying means and including means for revolving the pointer over the fixed dial, and for rotating the annular dial about the fixed dial.

1,336,352. BALL-BEARING. THEODORE HEGELMAN, Oak Park, Ill. Filed Feb. 17, 1919. Serial No. 277,475. 7 Claims. (Cl. 64—59.)



1. The combination with a shaft, a sleeve mounted thereon and an inner race mounted and retained on said

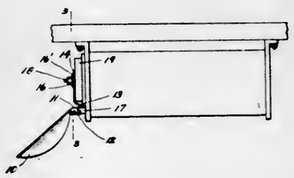
sleeve, of an outer race, bearing-balls interposed between said races, a casing through which said shaft extends having a circumferential rib projecting from its inner circumference, and means for keeping said outer race bearing against said rib.

1,336,353. RADIUS-ROD TRUSS. WILLIAM F. HUDSON, Philadelphia, Pa., assignor to Hudson Motor Specialties Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 26, 1919. Serial No. 292,963. 2 Claims. (Cl. 267—67.)



2. In a motor vehicle construction an axle, a transmission casing, a radius rod having a neck, said rod being connected to said axle and transmission casing, a truss comprising a structure consisting of a notched neck freely engaging over and having limited sliding movement with respect to the neck of the radius rod, the truss neck terminating in flexible and diverging arms and means for rigidly connecting the free ends of said arms to said axle whereby rear thrust of said axle tends to cause said truss to first slide with respect to the radius rod under slight thrust and then to yield under greater thrust.

1,336,354. MUFFLER ATTACHMENT FOR MOTOR-VEHICLES. WILLIAM F. HUDSON, Philadelphia, Pa., assignor to Hudson Motor Specialties Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 4, 1919. Serial No. 335,785. 2 Claims. (Cl. 137—160.)



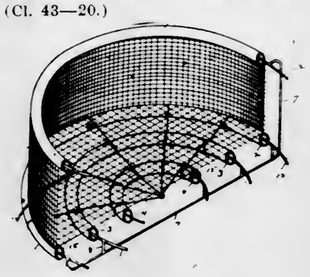
1. In combination a muffler for motor-vehicles, a cap provided with a rearwardly projected vent of substantially elliptical cross-section detachably secured to said muffler, a device having a part shaped for coöperatively engaging over said vent and for abutting against said cap and having a part serving to deflect the exhaust gases passing from said vent in a direction toward the ground and means common to said cap and device for securing same with respect to said muffler, said means being the sole method of attachment.

1,336,355. SHOE. JAMES C. JARDINE and JAMES DICKIE, Summerside, Prince Edward Island, Canada. Filed Dec. 19, 1918. Serial No. 267,451. 2 Claims. (Cl. 36—14.)



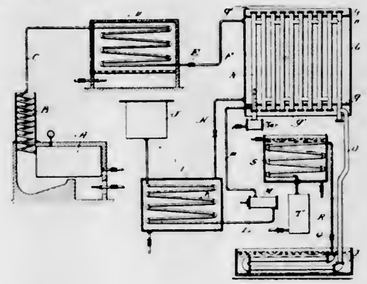
1. A shoe sole comprising inner and outer sections, said inner section comprising a strip so disposed as to leave a central recess, a metallic binding embedded within said strip, fastening members adapted to extend through said strip and binding, a perforated filling adapted to be seated within said recess and said outer section adapted to be cemented to said filling and said inner section.

1,336,356. FISH-TRAP. EUGENE M. JOHNSON, Portland, Oreg. Filed Feb. 8, 1918. Serial No. 215,957. 7 Claims. (Cl. 43—20.)



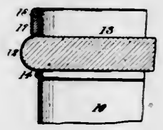
1. In a fish trap, a submersible top part, a submersible bottom part, a netting covering the bottom part and connecting the outer edges of the top and bottom parts, and collapsible air tight tubes within the top and bottom parts.

1,336,357. APPARATUS FOR REFINING MINERAL OILS. HARRY WAGENSELLER JONES, Independence, Kans.; Frank E. Jones, administrator of said Harry W. Jones, deceased, assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Oct. 7, 1916. Serial No. 124,339. 2 Claims. (Cl. 196—14.)



1. In apparatus for the treatment of mineral oils, a pipe still or retort having a plurality of convolutions consisting of straight sections of tubing arranged vertically and connected near alternate opposite ends by relatively short horizontal sections of tubing forming a sinuous path for the circulation of oil therethrough, each of said vertical sections extending beyond the lower horizontal section connecting therewith, and a removable cap fitted to the bottom of each vertical section for the retention of precipitates and heavy constituents below said horizontal sections and out of said sinuous path.

1,336,358. COLLAPSIBLE BARREL. SEWELL A. KNAPP, Berkeley, and MOSES A. KNAPP, Oakland, Calif., assignors to Knapp Metal Barrel and Package Co. of Nevada, Carson City, Nev., a Corporation of Nevada. Filed Dec. 2, 1916. Serial No. 134,691. 9 Claims. (Cl. 220—61.)



1. A knock-down metal barrel comprising a cylindrical sheet metal body portion the contiguous edges of which

interlock longitudinally, a croze formed at each end of the body portion, a removable head seated within each croze, tie wires adapted to securely bind the body portion around the heads, and a reinforcing ring adapted to be secured around the outer faces of the heads to further prevent the removal thereof.

1,336,359. KEY MECHANISM FOR WOOD-WIND INSTRUMENTS. ALLEN LOOMIS, Detroit, Mich. Filed Aug. 20, 1913, Serial No. 785,707. Renewed May 28, 1919. Serial No. 300,482. 48 Claims. (Cl. 84—7.)

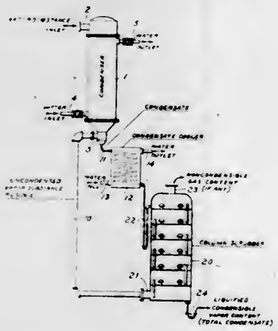


1. In a musical instrument, the combination of a body having lateral tone holes, a stopper for one of said holes movable toward and away from the same, manually operated means having an operating connection with said stopper for giving the stopper a definite motion, said stopper and said means being pivoted on different axes, and other manually operated means having an operating connection with the stopper for moving the same out of the position to which it is brought by manual actuation of the first-named manually operated means.

38. In a musical instrument, the combination of a body having lateral holes, a stopper adapted to close one of said holes and a linkage for actuating said stopper comprising a floating member with which said stopper is connected, said floating member having a compound motion, a positive actuator for giving one of the component parts of such motion to said floating member, a yielding actuator for giving another of the components of such motion to said floating member, and a positive actuator for overcoming the effect of said yielding means and reversing the motion given to the floating member thereby.

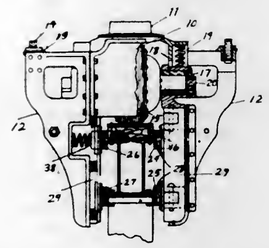
45. A musical instrument of the wood-wind type having a tubular body provided with lateral holes, and including a key mechanism; said mechanism comprising a hole stopper and two finger pieces movable by pressure applied by the digits of the performer each actuating said stopper and one of them being effective to move the stopper while the other one is pressed upon.

1,336,360. METHOD OF TREATING GAS-VAPOR MIXTURES. WALTER E. LUMMUS, Lynn, Mass. Filed May 5, 1916. Serial No. 95,668. 2 Claims. (Cl. 196—5.)



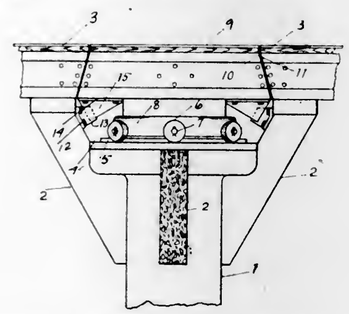
1. The method of liquefying vapors, consisting in passing a stream of said vapors through a cooling zone to liquefy a portion of said vapors, withdrawing from said zone in separate streams said liquefied portion and said uncondensed vapor portion, and then subjecting said uncondensed vapor portion to the absorbing action of said liquefied portion to remove the residual liquefiable vapors by reuniting said streams.

1,336,361. RAILWAY-CAR TRUCK. ROYAL A. MCCLURE and WILLIAM W. BOULTON, Seattle, Wash., assignors to Universal Elevated Railway Co., Seattle, Wash. Filed June 19, 1918. Serial No. 241,078. 2 Claims. (Cl. 105—144.)



1. The combination with a track, of a truck frame, a single truck wheel supporting said frame on said track, roller bearings disposed on each side of said truck wheel independently of said truck frame to engage the opposite sides of said track, and other roller bearings disposed near the front and rear ends of said truck frame independently thereof to engage the opposite sides of said track.

1,336,362. TURNTABLE. ROYAL A. MCCLURE and WILLIAM W. BOULTON, Seattle, Wash., assignors to Universal Elevated Railway Company, Seattle, Wash. Filed June 19, 1918. Serial No. 241,079. 1 Claim. (Cl. 104—130.)

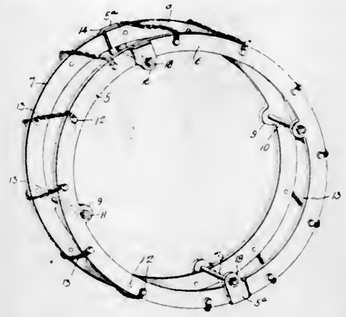


A turntable of the class described comprising a stanchion, a plurality of braces rigidly connected to the side of said stanchion and extending upwardly at an angle therefrom, a circular raceway provided on the upper end of said stanchion, a carriage base having wheels adapted to rotate upon said raceway, a rail mounted on said carriage base, stationary track rails mounted upon the upper portions of said braces, and means for preventing vertical displacement of said track rails when the rail of said turntable is brought into alinement therewith.

1,336,363. ANTISKIDDING ARMOR FOR TRUCK-TIRES. FREDERICK MCLAUGHLIN, Canton, Ill. Filed July 3, 1919. Serial No. 308,455. 1 Claim. (Cl. 152—2.)

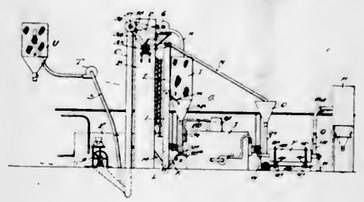
In a device of the character described, a pair of plate rings each being divided into a pair of sections having

overlapping ends forming a slip joint, one of said ends being off set and having a shoulder for free abutment of the other end so as to limit contraction and permit



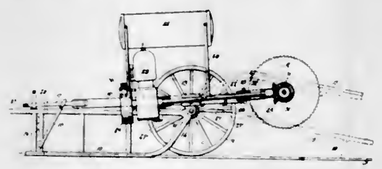
expansion of the rings, ear extensions of the off sets projecting inwardly from the rings in opposite pairs, and a bolt extending through the ears.

1,336,364. APPARATUS FOR TREATING FUEL. WILSON L. MCLAUGHLIN, Decatur, Ill. Filed Sept. 25, 1918. Serial No. 255,618. 7 Claims. (Cl. 83—9.)



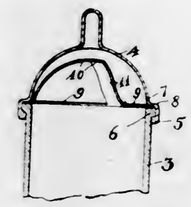
1. In apparatus for producing powdered coal, the combination of a comminuter for reducing the material to fine, granular form, a drying chamber, means for circulating hot, drying gases through said chamber, means for showering the granular material into the chamber so that it will be dried while passing through said gases, means for withdrawing the gases and vapor from the chamber, and a pulverizer for reducing the dry material to an impalpable powder.

1,336,365. SAWING-MACHINE. JAMES H. MCPARTLAND, Houlton, Me. Filed Jan. 10, 1919. Serial No. 270,543. 2 Claims. (Cl. 143—43.)



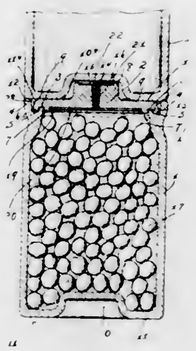
1. A sawing machine of the class described, including a main frame, an axle on which said frame is mounted, a saw arbor, means mounting said arbor on said frame at the front end thereof and forward of said axle, and a sled slung at its front end on said axle beneath said frame, said sled being swingable on the axle through an angle of approximately 180° to dispose the sled adjacent to the saw arbor, whereby to constitute a support for material which is to be cut.

1,336,366. BABY-NIPPLE PROTECTOR. LEON E. MARSH, Los Angeles, Calif. Filed May 26, 1919. Serial No. 299,706. 2 Claims. (Cl. 128—252.)



1. In combination with a wide-neck milk bottle and a baby nipple having a wide portion and a nipple proper, a protecting member disposed between the top end of the bottle and the inside of the nipple comprising a flange-portion of a form to come between the nipple and the top end of bottle pressed against the top of the bottle by the tension of the nipple and having integral with the flange a supporting and protecting portion for the wide portion of the nipple just below the nipple proper extending centrally and upwardly into the wide portion of the nipple nearly following the contour of the inside of such portion of the nipple outwardly of the neck of the bottle.

1,336,367. FRUIT-JAR. WILLIAM C. MARTINEAU and CLARENCE R. MARTINEAU, Albany, N. Y. Filed June 26, 1917. Serial No. 176,969. 6 Claims. (Cl. 215—80.)

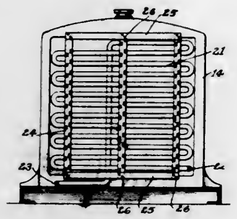


1. The combination with a jar having a mouth surrounded by a seat, and a peripheral flange surrounding said seat; of a cover adapted to rest upon said seat on the jar, the outer peripheral surface of said cover and the inner wall of said flange on the jar being outwardly divergent one from the other to form therebetween an inwardly tapered groove adapted to receive a sealing medium, said cover being wholly surrounded by said flange, and the mouth of said groove being open substantially continuously around said cover.

1,336,368. OIL-COOLING SYSTEM FOR EXPLOSIVE-ENGINES. CLYDE V. MORSE, Galesburg, Ill. Filed Oct. 24, 1919. Serial No. 332,957. 2 Claims. (Cl. 184—104.)

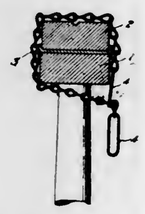
2. In a circulatory oil cooling system, an oil radiator comprising a plurality of pipes bent back and forth in

horizontal arrangement, a frame on which said pipes are laid, and means on the frame members for securing the



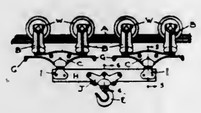
pipes thereto, said means comprising oppositely directed and bent lugs, the free ends of which are stamped out from the frame members.

1,336,369. TIRE-CHAIN. ROSS E. MUFFLY, Canton, Ohio. Filed May 26, 1919. Serial No. 299,754. 1 Claim. (Cl. 152—2.)



A tire chain for vehicle wheels, comprising a plurality of cross chains arranged to encircle the rim and tire, an elongated enlarged link on each end of each cross chain, said links being similar whereby either end of each cross chain may be passed through the enlarged link on the other end thereof and a tie chain arranged to be passed through the elongated links on the free ends of the cross chains.

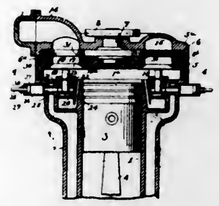
1,336,370. OVERHEAD CARRIER. ALBERT H. NELLER, Fairfield, Iowa, assignor to Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Jan. 26, 1920. Serial No. 353,962. 6 Claims. (Cl. 105—154.)



4. In overhead carriers, a pair of trolleys adapted to run on an overhead track-way, a connecting member swiveled to the lower ends of the trolleys below the track-way, the ends of said connecting member being extended to a line vertically beyond the outer edges of the trolley wheels and laterally extended to form broadened bumpers to contact with the frame of an adjacent carrier.

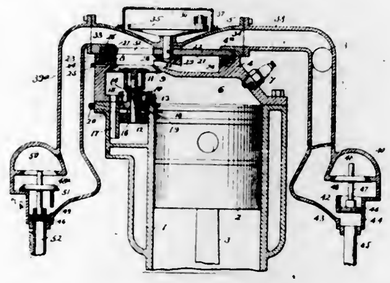
1,336,371. INTERNAL-COMBUSTION ENGINE. OSCAR T. NELSON, Cleveland, Ohio, assignor of fifty per cent. to C. A. Barnholth, Akron, Ohio. Filed Jan. 19, 1917. Serial No. 143,227. 12 Claims. (Cl. 123—41.)

2. In an internal combustion engine, the combination with a cylinder and piston therein of a head coöperating with the cylinder, said head being provided with an inlet port and an exhaust port, a rotatable valve coöperating with the said head, said valve being provided with a port a cover member coöperating with the head of the valve, and inclosing the rotatable valve between the said



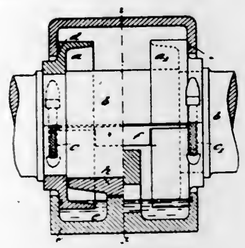
head and the cover, said cover having ports which register with the ports in the head and means for turning the said valve.

1,336,372. INTERNAL-COMBUSTION ENGINE. OSCAR T. NELSON, Cleveland, Ohio, assignor of fifty per cent. to C. A. Barnholth, Akron, Ohio. Filed Nov. 1, 1917. Serial No. 199,618. 12 Claims. (Cl. 123—41.)



1. In an internal combustion engine, the combination with a cylinder having a piston therein and a cylinder head, of a rotatable valve within said head, said head being provided with two inlet openings and an exhaust opening, said valve being provided with an opening which in turning in one direction coöperates with one of the inlet openings and the exhaust, and when turning in the opposite direction coöperates with the other of the inlet openings and the exhaust, means connecting said inlet openings, a single valvular means controlling the passage of gas from the inlet openings to the cylinder, said valvular means being moved to closed position when gas under pressure is within the cylinder, and means for operating the rotatable valve to coöperate with either of the inlet ports and the exhaust port.

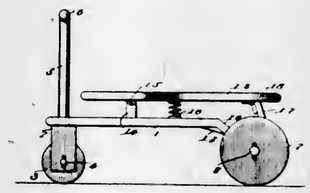
1,336,373. LUBRICATION OF JOURNAL-BEARINGS. HENRY T. NEWBIGIN, Newcastle-upon-Tyne, England. Filed Nov. 21, 1918. Serial No. 263,569. 4 Claims. (Cl. 64—24.)



3. In a device for the lubrication of the journal bearings of a shaft, the combination of a housing formed

with an oil well, a series of pivoted segments constituting the bearings and carried by the housing, a pair of rings fixed to the shaft and provided with flanges dipping into the well and embracing the ends of the segments, and scrapers designed to remove the oil from the inner surfaces of the flanges and direct it to the journal bearings, substantially as described.

1,336,374. TOY. CHARLES WILLIAM OBERREICH, Bucyrus, Ohio. Filed Sept. 16, 1919. Serial No. 324,102. 1 Claim. (Cl. 208—33.)



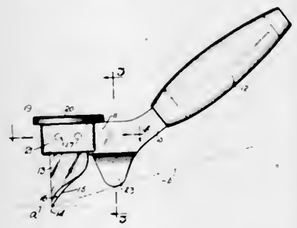
A device of the character described comprising an elongated platform, a dirigible steering wheel mounted therebelow, rear wheels journaled at the rear end of the platform, a support rising from said platform intermediate the ends thereof, a seat disposed above and normally in spaced parallel relation to said platform, said seat being pivotally connected at a point spaced from its forward end with said support, coil springs interposed between the platform and the seat, and means connected with the rear wheels for imparting a rocking up and down motion of said seat, the location of the seat in spaced relation to the platform preventing contact therewith.

1,336,375. GARMENT-HANGER. FREDERICK L. OWEN, Boston, Mass. Filed July 30, 1919. Serial No. 314,211. 2 Claims. (Cl. 211—13.)



1. In a garment hanger, a plurality of resilient clasps secured thereto on opposite sides of the supporting hook, and means passing through said resilient clasps and through the garment hanger for regulating the tension of said resilient clasps.

1,336,376. SURGEON'S PLASTER-KNIFE. HERMAN B. PHILIPS, New York, N. Y. Filed July 2, 1919. Serial No. 308,104. 9 Claims. (Cl. 128—305.)



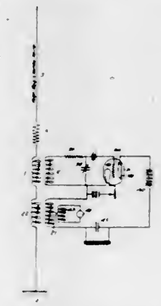
1. In a plaster knife, the combination of a holder comprising a rigid shank and a rigid handle extending rearward therefrom, a cutting blade, pin and hole connections between the blade and the shank serving to prevent movement of the blade with respect to the shank except laterally, and means embracing the blade and the shank to prevent movement of the blade laterally from the shank.

1,336,377. FILM-HOLDER. HENRY H. PIERCE, Cambridge, Mass. Filed July 14, 1919. Serial No. 310,724. 5 Claims. (Cl. 95—68.)



1. A film holder comprising an open frame for use in the ordinary plate holder, said frame having walls corresponding in height to the thickness of an ordinary photographically sensitive plate, and means supported from the walls inside of the frame and between the top and bottom surfaces thereof for engaging and holding a film therein.

1,336,378. ANTENNA WITH DISTRIBUTED POSITIVE RESISTANCE. MICHAEL I. PUPIN, Norfolk, Conn., and EDWIN H. ARMSTRONG, Yonkers, N. Y. Filed Oct. 1, 1915, Serial No. 53,493. Renewed June 20, 1919. Serial No. 305,706. 4 Claims. (Cl. 250—20.)



1. A receiving conductor for wireless wave transmission having a resistance load sufficiently high to screen the system effectively against disturbing electromagnetic waves impressed upon the conductor, the said resistance load being distributed along the conductor with substantial uniformity with respect to the wave lengths developed upon the conductor by the received signals.

1,336,379. LOCKING DEVICE FOR AUTOMOBILES. CHARLES G. READ, Buffalo, N. Y. Filed June 3, 1919. Serial No. 301,476. 2 Claims. (Cl. 70—129.)



1. A locking device adapted to secure the steering wheel of an automobile against turning at the upper end of its post in relation to the spark and lever bracket fixed to said post, said device comprising two connecting members and a locking member, one of said connecting members being U-shaped with attachment ends, and formed to straddle the central portion of said wheel and pass down at an

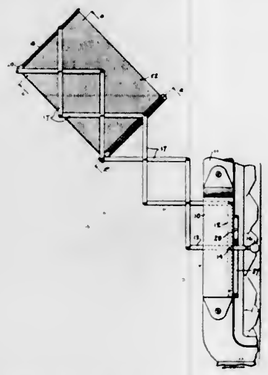
angle to the axis of said post, having its plane intersecting said axis, and having its ends reaching below said bracket, the other of said connecting members being bent to lie about said post, having connection with one of said attachment ends at one of its ends, said locking member having a releasable connection with the remaining ends of said connecting members.

1,336,380. PORTABLE HYGROSCOPE. CORNELIUS SAMPIETRO, Brooklyn, N. Y. Filed Aug. 9, 1919. Serial No. 316,291. 8 Claims. (Cl. 73—24.)



8. A hygroscope adapted to be used as a pencil or pen holder or the like, comprising an outer casing, a hygroscopic element, a means carried by the casing for yieldingly supporting one end of the hygroscopic element but restraining said end from rotary movement, a means supporting the other end of said element to permit a turning movement thereof, said means including an indicator hand, a stop to limit the rotary movement of said indicator hand, and a compensating means connected between the end of the said element, and the indicator hand, for permitting continued rotary movement of the said element, after the indicator hand has reached its limit of movement.

1,336,381. DANGER-SIGNAL FOR AUTOMOBILES. JULIUS SCHACHT, New York, N. Y. Filed Jan. 14, 1919. Serial No. 271,132. 3 Claims. (Cl. 116—46.)

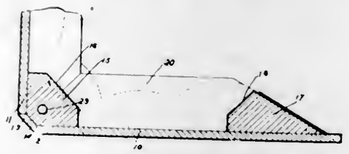


1. In a signal device for automobiles, the combination of a relatively fixed casing, a flexible display member carried normally in rolled form within the casing and means to project the display member from the casing, said projecting means comprising a plurality of lazy tongs, and connections between the opposite ends of the display member and the lazy tongs whereby when the lazy tongs are projected the display member will be extended, said display member being carried entirely by the lazy tongs.

2. In a signal device for automobiles, the combination of a relatively fixed casing, lazy tongs devices anchored in the casing and carried normally in folded position therein, a link member carried by the outermost ends of the lazy tongs and comprising two parallel bars, another bar member carried by the intermediate joints of the lazy tongs and parallel to the link member, a spring operated roller journaled in the latter mentioned bar member, and a flexible display member secured at one end to the roller and secured at its other end to the link member whereby when the lazy tongs are projected the display member will be automatically unrolled from the roller and projected upward into display position.

3. In a safety signal, the combination of a rigid support, a series of lever members pivoted to one another, the first lever constituting the actuator and pivoted on a fixed pivot to said support intermediate the ends of the lever, a flexible signal member carried normally in rolled form adjacent to the support, and means carried by the lever members serving to cause the signal member to be unrolled into flat display position and at the same time to be swung outward and upward by the actuation of the actuating lever providing thereby for the automatic return by gravity of the signal member when the actuator is released.

1,336,382. PHONOGRAPH-RECORD HOLDER. WILLIAM HENRY SCHLINGLOFF, Jersey City, N. J. Filed Mar. 13, 1919. Serial No. 282,314. 2 Claims. (Cl. 211—16.)



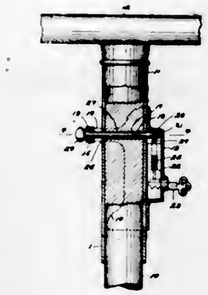
1. A disk record holder comprising a substantially L-shaped member formed of suitable stiff material, a block secured to the end of each leg of the L-shaped member, a block for securing the adjacent ends of the legs of the L-shaped member together, record-holding means secured to the opposite side edges of the legs of the L-shaped member and in spaced relation to each other, and friction-producing means carried by the inner face of the record-holding means and adapted to frictionally engage the opposite side faces of a record to contain the same within the L-shaped member substantially as described.

1,336,383. TIRE-CHAIN FASTENER. YOSHI SHIMIZU, New York, N. Y. Filed July 16, 1918. Serial No. 245,193. 2 Claims. (Cl. 24—73.)



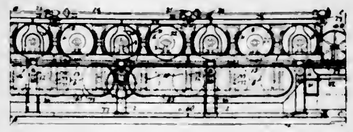
2. A tire chain fastener comprising a tube, a stem having resilient fingers extending into said tube, lugs formed upon said fingers, gripping extensions projecting beyond said lugs, a coiled spring connected to said tube and said stem, connecting means carried by said tube and said stem for engaging the ends of the chain, whereby said spring will urge said stem into the tube to tension the chain, until said lugs engage one end of the tube, thus latching the stem in engagement with the tube and preventing of accidental separation of the ends of the chain, although said extensions may be gripped and urged together for releasing the lugs from a latched engagement with the tube when it is desired to remove the anti-skid device.

1,336,384. AUTO-LOCK. GEORGE F. SMITH, Germantown, Pa. Filed Aug. 9, 1919. Serial No. 316,379. 3 Claims. (Cl. 70—90.)



2. A means for locking a post relative to the casing thereof, said post having a transverse passage which in the operation of the post can be brought into registration with openings in the casing, comprising a locking pin mounted to swing and to slide and normally disposed exteriorly of the casing, said pin being movable into a position at right angles to its normal position to aline with the openings in the casing and the passage in the post and be projected through said openings and said passage to lock the post relative to its casing.

1,336,385. STENTERING OR STRETCHING DEVICE APPLICABLE TO HEATED CYLINDRICAL CAN-DRYING MACHINES AND THE LIKE FOR TEXTILE FABRICS. JOHN R. STEVENSON, Glasgow, Scotland. Filed July 6, 1918. Serial No. 243,682. 11 Claims. (Cl. 26—16.)



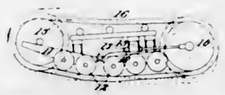
5. A stentering machine for textile fabrics comprising a series of heated rotatable cylinders, a slidable chain race mounted on each of said cylinders, movable structures, wheels grooved to form a chain race provided on said structures and arranged below and between each cylinder and its neighbor of the said series of cylinders, grooves forming chain races, also provided on said structures, chains of cloth holding clips, return wheels, grooves in said wheels and disks also formed on said wheels, for automatically opening said clips substantially as herein set forth.

1,336,386. PURIFICATION OF ZINC SOLUTIONS. HENRY LIVINGSTONE SULMAN and SAMUEL FIELD, London, England, assignors to The Metals Extraction Corporation, Limited, London, England. Filed May 12, 1919. Serial No. 296,553. 8 Claims. (Cl. 75—18.)

1. A process for the purification of zinc solutions from cobalt, which comprises treating the solution, freed from iron, arsenic, antimony, copper and cadmium, with peroxid of lead, with application of heat.

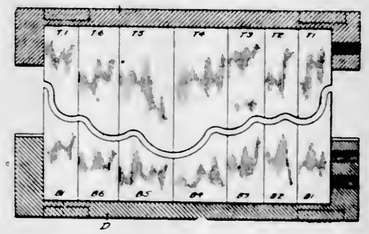
1,336,387. TRACTOR TRUCK MECHANISM. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Apr. 27, 1917. Serial No. 164,945. 13 Claims. (Cl. 21—150.)

10. The combination of a self-laying track, load supporting rollers arranged in groups and running thereon, front and rear sprockets around which the track may pass, and means to cause one group of rollers to have an ar



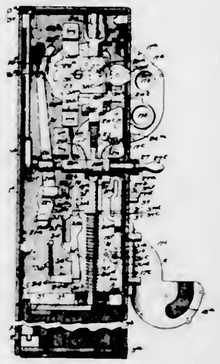
cuate movement in a single direction with respect to the other group when obstructions carried around the sprockets cause excessive tension of the track.

1,336,388. DIE. CHESTER W. YOUNGBERG, San Francisco, Calif. Filed Mar. 5, 1919. Serial No. 280,711. 3 Claims. (Cl. 113—49.)



1. A bending die for forming pipe hangers comprising a plurality of sections dividing on lines coinciding with the center lines of the pipes to be supported, each die section being formed with a bending face shaped to produce the required curvature between the center lines of adjacent pipes.

1,336,389. VENDING-MACHINE. CHARLES F. RICHARDSON, Woonsocket, R. I., assignor, by mesne assignments, to George B. Pitts, trustee, Cleveland, Ohio. Original application filed Dec. 31, 1910, Serial No. 600,254. Renewed Apr. 3, 1915, Serial No. 19,036. Divided and this application filed Jan. 18, 1917. Serial No. 142,974. 28 Claims. (Cl. 194—57.)



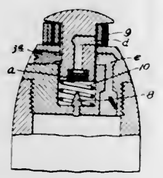
1. In a machine of the class described, the combination with a casing having a delivery opening, of a strip delivery wheel adapted to deliver portions of a strip through the opening at each operation of the machine, a coin slot, a closing device for the slot, means for locking the closing device in inoperative position, and means arranged immediately behind said delivery opening having connections with said locking means for operating the latter after the last portion of the strip is delivered through said opening.

1,336,390. FOUNTAIN-TOOTHBRUSH. JOSEPH A. SARGEAY and OMER DUPONT, Sherbrooke, Quebec, Canada. Filed Jan. 31, 1919. Serial No. 274,283. 1 Claim. (Cl. 15—52.)



A tooth brush comprising a hollow handle section and a brush section said brush section formed with a reduced threaded portion projecting within said hollow section, a tube containing cleansing material adapted for location within said hollow handle section, said tube having one of its ends interiorly threaded for the reception of the reduced threaded portion of the brush section, the brush section formed with a passage communicating with the interior of the handle section, a piston arranged in said handle section, a detachable plug secured to said handle, a threaded rod secured to said plug and connected to said piston, a disk mounted on said rod and having bearings on said plug for actuating said piston in said hollow handle section to force the cleansing compound from the tube to the brush.

1,336,391. DETONATOR-FUSE. JOHN B. SEMPLE, Sewickley, Pa. Filed Dec. 31, 1918. Serial No. 269,083. 9 Claims. (Cl. 102—39.)



1. In a detonating fuse a cap-firing plunger functioning on impact and a path of detonation transmission preliminarily incomplete and completed only by the transverse of said plunger on impact, substantially as described.

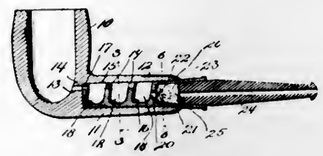
1,336,392. INTERNAL-COMBUSTION MOTOR. ARTHUR L. SMITH, Portland, Oreg. Filed Oct. 7, 1918. Serial No. 257,284. 9 Claims. (Cl. 60—12.)



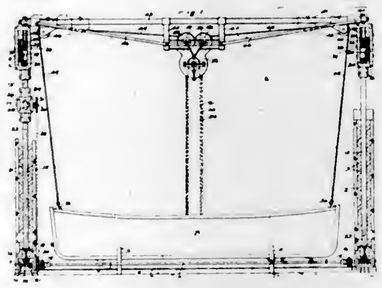
1. In an internal combustion motor, a housing consisting of a pair of casings and connecting passageways therebetween; a liquid within said housing; means to cause said liquid to rotate within said casings alternately, and to circulate from one casing to the other through said passageways, the direction of circulation of said liquid within said housing being constant; and means within said housing whereby the combined circulation and rotation of said liquid produces power.

1,336,393. TOBACCO-PIPE. LOUIS SUEDMEYER, St. Louis, Mo. Filed Oct. 18, 1918. Serial No. 258,697. 12 Claims. (Cl. 131—12.)

1. The combination of a pipe having a bowl and a solid bored stem with a connecting draft passage between them, of a purifier insertible endwise in said stem, having a plurality of open-topped, circular smoke-whirling pockets, to one of which said draft passage delivers, and off-centered alternately-staggered passages connecting said pockets.

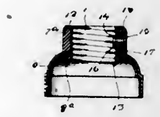


1,336,394. DAVIT. FRANK J. SUPER, Portland, Oreg., assignor, by direct and mesne assignments, of twenty-four and one-half per cent. to Wade H. Blevins, Portland, Oreg., and fifty-one per cent. to W. J. Milne, Portland, Oreg. Filed Mar. 23, 1917, Serial No. 156,897. Renewed June 17, 1919. Serial No. 306,218. 11 Claims. (Cl. 9—22.)



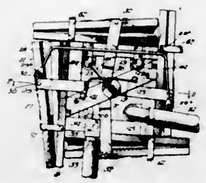
1. A davit of the character referred to comprising in combination a fixed vertical supporting structure, a boat-supporting structure pivoted at its lower end and adapted to swing outwardly at its upper end, means carried by said boat-supporting structure and moving therewith for supporting, raising and lowering a life boat, and means interposed between the upper end of said fixed vertical structure and said boat-supporting structure for mechanically moving said pivoted boat structure outwardly away from said fixed vertical structure, for the purpose referred to.

1,336,395. LAMP-SOCKET CONSTRUCTION. OSCAR S. SWANSON, Jamestown, N. Y. Filed Dec. 10, 1918. Serial No. 266,093. 4 Claims. (Cl. 173—362.)



4. A cap for use in lamp socket constructions, comprising a metallic element having an aperture and a collar flange surrounding the aperture and also having radially disposed apertures in said collar flange, an insulating annulus disposed within the collar flange and having radial projections disposed in some of the apertures thereof, an interiorly threaded bushing arranged and held against endwise movement in the insulating annulus and having an outwardly extending interiorly threaded sleeve disposed in the remaining radial aperture of the collar flange, and a set screw bearing in the said sleeve.

1,336,396. AIR-PUMP. ALFRED SWENSEN, Cicero, Ill., assignor to The Cable Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1916. Serial No. 92,604. 15 Claims. (Cl. 230—2.)
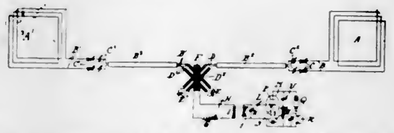


1. An air-pump comprising a rotatable crank-shaft, a wind-chest extending around the crank portion of said shaft, a plurality of exhausters supported on the outside of said wind-chest and in communication therewith, and driving connections between each exhauster and the crank-shaft comprising a yoke embracing the wind-chest for transmitting force from the crank-shaft to the exhauster.

1,336,397. BED-BOTTOM HANGER. DON CARLOS TRAVIS and FRANK KUSTERLE, Kenosha, Wis., assignors to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 18, 1918. Serial No. 223,076. 2 Claims. (Cl. 5—64.)



1. In a device of the class described, the combination of a said rail, a side tube having a transverse perforation, a pair of sheet metal parts having adjacent end portions formed to embrace the side tube and having opposite adjacent end portions superposed in horizontally overlapping relation and connected together to prevent separation thereof and a member in said perforation for locking the said parts to said tube and against rotary movement around the axis of said tube.

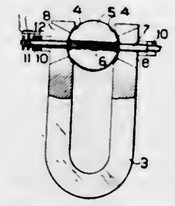
1,336,398. RADIOSIGNALING APPARATUS. ROY ALEXANDER WEAGANT, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 1, 1918, Serial No. 214,828. Renewed Sept. 16, 1919. Serial No. 324,217. 8 Claims. (Cl. 250—20.)



1. In combination, at a radio receiving station, a plurality of separated antennæ, means for receiving signals while excluding the effects of static disturbances, and connections between the receiving means and the antennæ, said connections being electrically shielded from signal waves and static disturbances.

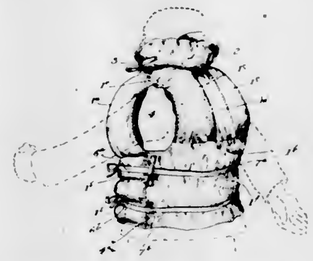
1,336,399. APPARATUS FOR DETERMINING THE POSITION OR THE MOVEMENT OF A BODY OR FOR CONTROLLING THE AUXILIARY DEVICES DEPENDENT ON SAID POSITION OR MOVEMENT. CORNELIS SCHOUTE, De Bilt, near Utrecht, FLORIS ALBERT VAN HEYST, Soesterberg, and NICOLAAS EVERHARD GROENEVELD MEYER, Bosch en Duin, near Zeist, Netherlands. Filed Mar. 15, 1919. Serial No. 282,915. 2 Claims. (Cl. 171—95.)

1. Apparatus for determining the position or movement of a body or for controlling auxiliary devices dependent on said position or movement comprising a dynamo-electric device provided with means for establishing a



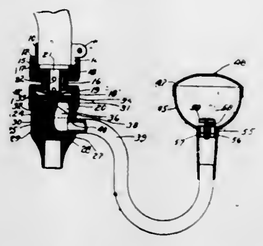
magnetic field, and a relatively rotatable armature the axis of which is adapted to be adjustably inclined to the direction of the magnetic field of the device.

1,336,400. JACKET-TYPE LIFE-PRESERVER. CYRUS H. YOUNG, Newark, N. J., assignor to The Robinson-Roders Co., Inc., Newark, N. J., a Corporation of New Jersey. Filed Feb. 4, 1919. Serial No. 274,865. 3 Claims. (Cl. 9—20.)



1. A jacket-type life preserver having buoyant members at the front, across the chest and at the back across the shoulder blades, an unpadded portion extending across the waist at the back, and straps or belts encircling the waist and secured to the jacket respectively upon opposite sides of the back.

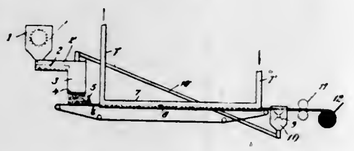
1,336,401. DRINKING-FOUNTAIN. WILLIAM DOUCETTE, Revere, Mass. Filed June 16, 1917. Serial No. 175,179. 3 Claims. (Cl. 299—9.)



1. In a device of the character described, a casing adapted to be attached to an ordinary water faucet, said casing being provided with coupling means therefor and having an inlet therethrough and an outlet in alinement with said inlet and a bearing seat adjacent to the latter, an independent valve seat movable in axial alinement with said inlet and said outlet and having a passage therethrough between the axis thereof and its periphery, a rotatable valve bearing wholly on the bearing seat on said casing and on the said independent valve seat and wholly supported and rotatable thereon, said valve having one passage adapted at times to aline with the passage in said valve seat and with said outlet and having another pas-
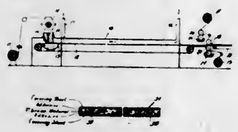
sage adapted at other times to aline with said passage through said independent valve seat and adapted to direct water transversely thereto, a pipe provided with a drinking head and connected with said valve to communicate with its transverse passage and extending transversely to the valve to rotate the same.

1,336,402. PRODUCTION OF MATS OF FIBROUS MATERIAL. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed May 31, 1918. Serial No. 237,446. 16 Claims. (Cl. 19—10.)



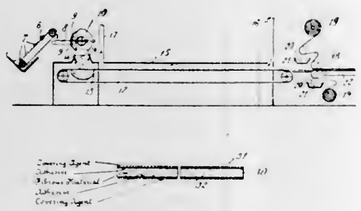
14. The process of manufacturing of a fiber fabric which consists in shredding wood pulp in a substantially dry condition, then moistening the shredded product while in loose and flocculent condition with a mist of water containing an adhesive material, and then evaporating the water from the fibrous material until it is substantially dry.

1,336,403. COMPOSITE INSULATING MATERIAL. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed June 2, 1919. Serial No. 301,218. 13 Claims. (Cl. 154—43.)



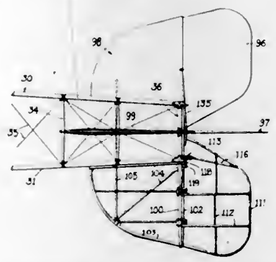
11. As a new article of manufacture, a composite insulating material comprising a fibrous body portion composed of fibers coated with a water resistant size and cemented together with a water resistant adhesive, and a covering sheet secured to one or more surfaces of said body portion by a water resistant adhesive; substantially as described.

1,336,404. COMPOSITE INSULATING MATERIAL. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed July 11, 1919. Serial No. 310,136. 13 Claims. (Cl. 154—54.)



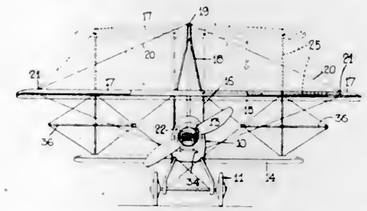
12. As a new article of manufacture, a composite insulating material comprising a resilient mat of cemented-together animal fibers having a covering agent cemented to one or more surfaces thereof; substantially as described.

1,336,405. AIRPLANE. HENRY KLECKLER, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Original application filed Feb. 8, 1917, Serial No. 147,414. Divided and this application filed May 31, 1918. Serial No. 237,437. 7 Claims. (Cl. 244—29.)



2. In an airplane, a body, a directional control surface, hinges for said surface secured to said body, horns for said surface located intermediate the planes of the sides of said body, and a means commonly reinforcing both the horn and hinge connections.

1,336,406. CONVERTIBLE MULTIPLANE. JOHN P. TARBOX, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Apr. 5, 1918. Serial No. 226,843. 13 Claims. (Cl. 244—12.)



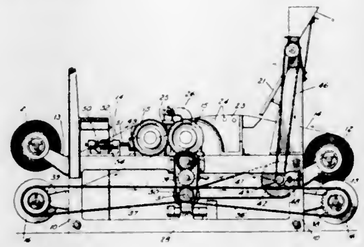
1. An airplane including two supporting surfaces, one of the supporting surfaces being movable into position respectively superimposed upon and superposed with respect to the other, the movable supporting surface comprising separate wings movable toward and away from each other, toward each other as the supporting surfaces are moved into superposed position and away from each other as the supporting surfaces are moved into superimposed position, said wings abutting when the supporting surfaces are superposed whereby to provide a supporting surface continuous from tip to tip.

REISSUES.

14,833. METHOD AND APPARATUS FOR APPLYING SHELLAC AND THE LIKE TO SHEET MATERIALS. ROBERT M. BRIGGS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1920. Serial No. 357,829. Original No. 1,311,491, dated July 29, 1919, Serial No. 202,649, filed Nov. 17, 1917. 14 Claims. (Cl. 91—68.)

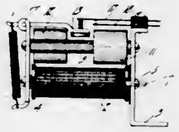
1. The method of coating sheet material with shellac and the like, which consists in progressively applying undissolved shellac to the surface of the sheet, fusing the shellac, and distributing the same in an even layer on the sheet.

3. The method of coating sheet material with shellac and the like, which consists in simultaneously moving two different surfaces of said material into converging relation, independently applying heat to each surface, and conveying undissolved shellac into the crevice between said converging surfaces to form therein a continuous pool of fused shellac, thereby coating both of said surfaces simultaneously.



10. A machine for simultaneously coating two separate surfaces of sheet material with shellac and the like, comprising heated bodies for separately applying heat to said surfaces, said bodies being placed in juxtaposition under pressure and arranged to have said sheet material pass therebetween; and means for progressively supplying shellac in solid form in advance of a heated body to form a continuous pool of fused coating substance at the junction of said surfaces between said bodies.

14,834. RELAY. JOHN ERICKSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,346. Original No. 1,330,020, dated Feb. 3, 1920, Serial No. 206,318, filed Dec. 8, 1917. 16 Claims. (Cl. 200—91.)

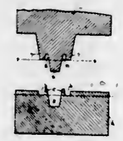


14. An electromagnet, a magnetic circuit for said magnet having a pair of parallel branches, means for causing a magnetic flux to flow in said circuit, means at one end of one of said branches for choking the lines of force in said branch, and means near the other end of said other branch for choking the lines of force in said other branch, an armature for said magnet, bridged across said branches between said choking means, whereby when the strength of said magnetic flux is rising in strength the lines of force are caused to flow through said armature to attract the same.

15. A magnetic circuit having parallel branches, means for causing a magnetic flux to flow in said circuit, means at one end of one branch for opposing any change in strength of said magnetic flux, means at the other end of the other branch for opposing any change in strength of said flux, a circuit controller forming a bridge across said parallel branches at the mid-point thereof and out of engagement therewith, whereby when said magnetic flux is rising in strength said magnetic flux is caused to flow through said circuit controller to attract the same to said branches.

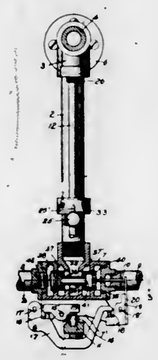
16. A magnetic circuit having parallel branches, means for causing a magnetic flux to flow in said circuit, means at one end of one branch for opposing any change in strength of said magnetic flux, means at the other end of the other branch for opposing any change in strength of said flux, a circuit controller forming a bridge across said parallel branches at the mid-point thereof and out of engagement therewith, whereby when said magnetic flux is rising in strength said magnetic flux is caused to flow through said circuit controller to attract the same to said branches, and a circuit controlled by said controller.

14,835. METHOD OF MANUFACTURING DIES AND A HUB OR SINKER THEREFOR. JULIUS GIEBEL and FRED H. ZIMMERMAN, Fremont, Ohio; said Giebel assignor to The Herbrand Company, Fremont, Ohio. Filed May 16, 1919. Serial No. 297,668. Original No. 1,247,524, dated Nov. 20, 1917, Serial No. 140,594, filed Jan. 4, 1917. 18 Claims. (Cl. 78—60.)



1. A hub or sinker, comprising a block, a shape formed thereon, a ledge which projects above the face of the block but lies below the face of the shape, and a gutter formed between said ledge and said shape.

14,836. FLUID-MIXING APPARATUS. EDWIN RUUD, Pittsburgh, Pa. Filed Mar. 27, 1918. Serial No. 225,136. Original No. 1,257,934, dated Feb. 26, 1918, Serial No. 93,046, filed Apr. 24, 1916. 16 Claims. (Cl. 236—12.)



14. In a fluid mixing apparatus, a thermostatic tube through which the mixed fluid passes, a valve casing having an outlet connected to said tube and hot and cold fluid inlets, a piston valve having its opposite ends enlarged for controlling said inlets, an equalizing passage connecting the opposite ends of said valve, and means actuated by the thermostatic movement of said tube for operating said valve.

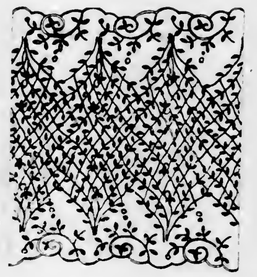
DESIGNS.

54,815. EYEBROW-BRUSH. James A. Campbell, Chicago, Ill. Filed June 12, 1919. Serial No. 303,786. Term of patent 14 years.



The ornamental design for an eyebrow brush, as shown.

54,816. LACE. Elizabeth Anderson Davis, New York, N. Y., assignor to Blanck & Co., Inc., New York, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,703. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

54,817. LACE. William Kerbs Kallman, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 16, 1919 Serial No. 331,194. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

54,818. LACE. William Kerbs Kallman, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,489. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

54,819. LACE. WILLIAM KERBS KALLMAN, New York, N. Y., assignor to Blanck & Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 27, 1919. Serial No. 333,852. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

54,820. LACE. WILLIAM KERBS KALLMAN, New York, N. Y., assignor to Blanck & Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1919. Serial No. 334,086. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

54,821. LACE. FELIX MEYER, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 2, 1919. Serial No. 342,034. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

54,822. LACE. FELIX MEYER, New York, N. Y., assignor to Blanck & Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,612. Term of patent 3½ years.

The ornamental design for lace as herein shown and described.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 6, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

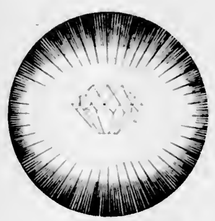
As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 60,239. (CLASS 39. CLOTHING.) NATH'L FISHER & CO., New York, N. Y. Filed Dec. 15, 1911.



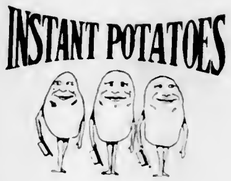
Particular description of goods.—Boots, Shoes, and Slippers of Leather.
Claims use since Apr. 25, 1899.

Ser. No. 83,821. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Jan. 13, 1915.



Particular description of goods.—Electric Incandescent Lamps.
Claims use since about 1892.

Ser. No. 94,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONDENSED FOOD COMPANY, Philadelphia, Pa., assignor to Armour Grain Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 29, 1916.



Particular description of goods.—Partially Cooked and Prepared Potatoes.
Claims use since Mar. 11, 1916.

Ser. No. 98,741. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY A. LOYER, Denver, Colo. Filed Oct. 16, 1916.



No claim is made to the use of a diamond shaped tablet apart from the word "Radiotab" as shown on the diamond-shaped tablet.
Particular description of goods.—A Tablet Containing Radium Therapeutic Qualities Used as a Medicinal Treatment for Blood-Poisoning, Skin-Cancer, Eczema, Pneumonia, Rheumatism, Enlarged Glands, Ulcers, Pleurisy, Quinsy, Colds, Headaches, and Skin Diseases.
Claims use since on or about May 1, 1916.

Ser. No. 100,558. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PROVIDENCE SPECIALTY COMPANY, Providence, R. I. Filed Jan. 12, 1917.

"Hydroproof-Lak"

No claim being made to the exclusive use of the word "Hydroproof" except in association with the mark as shown.
Particular description of goods.—Lacquer and Varnishes.
Claims use since Jan. 5, 1917.

Ser. No. 100,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES NOBLE, JR., COMPANY, Buffalo, N. Y. Filed Jan. 26, 1917.



Particular description of goods.—Fresh and Canned Oysters, Fresh and Canned Shrimp, Fresh and Canned Crabs, and Fresh, Salted, and Canned Fish.
Claims use since Aug. 5, 1912.

Ser. No. 105,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES NOBLE, JR., COMPANY, Buffalo, N. Y. Filed Aug. 18, 1917.

CABLE

Particular description of goods.—Fresh, Bulk, and Canned Oysters, Fresh and Canned Clams, Fresh and Canned Lobsters, Fresh and Canned Shrimp, Fresh and Canned Crabs, and Fresh, Salted, Dried, and Canned Fish.

Claims use since June 28, 1917.

Ser. No. 107,715. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JOHN A. BOLANDER, San Francisco, Calif. Filed Dec. 3, 1917.



No claim being made to the words "Bolander's, Trade Mark" and the representation of the label, nor to the words "Banjo Uke," except in the arrangement shown in the drawing.

Particular description of goods.—Stringed Musical Instruments Resembling a Banjo and Ukulele.

Claims use since June 12, 1916.

Ser. No. 109,799. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY HOWSON, Glen Moore, Pa. Filed Mar. 26, 1918.



Particular description of goods.—Corn Products—viz., Cornmeal, Mush-Meal, and Corn-Flour; Oatmeal; Whole-Wheat Flour, and Prepared Feeds for Cattle and Hogs.

Claims use since Dec. 1, 1912.

Ser. No. 111,223. (CLASS 15. OILS AND GREASES.) SMITH & NICHOLS, INCORPORATED, New York, N. Y., and Boston, Mass. Filed May 27, 1918.



No claim being made to the use of the word "Brand" apart from the other features of the mark.

Particular description of goods.—Paraffin-Wax, Ozocerite, Montan Wax, Carnauba-Wax, Shellac-Wax, Insulating-Wax, Cable-Wax, and Beeswax, All of the Goods Named Being Used for Electrical Insulating Purposes.

Claims use since July 20, 1917.

Ser. No. 111,225. (CLASS 15. OILS AND GREASES.) SMITH & NICHOLS, INCORPORATED, New York, N. Y., and Boston, Mass. Filed May 27, 1918.



No claim being made to the use of the word "Brand" apart from the remaining features of the mark.

Particular description of goods.—Paraffin-Wax, Ozocerite, Ceresin, Montan Wax, Japan Wax, Carnauba-Wax, Bayberry-Wax, Candelilla-Wax.

Claims use since July 20, 1917.

Ser. No. 111,295. (CLASS 11. INKS AND INKING MATERIALS.) CHARLES E. ARCHBALD, New Brunswick, N. J. Filed June 1, 1918.

"DUPLICO"

Consists of the word "Duplico" in capital letters, printed in convex form, as shown in the drawing.

Particular description of goods.—Typewriter-Ribbons, Carbon-Paper, and Stencil-Ink.

Claims use since Feb. 1, 1918.

Ser. No. 112,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH & CLARK COMPANY, Wilkes-Barre and Scranton, Pa. Filed July 22, 1918.



Particular description of goods.—Ice-Creams, Including Water-Ice, Frozen Custard, Frozen Fruits, and Sherbets.

Claims use since about Sept. 1, 1916.

Ser. No. 113,861. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE F. JOHNSTON, Fort Dodge, Iowa. Filed Oct. 23, 1918.

PYRO-NON

Particular description of goods.—Ready-Mixed Fire-Resisting Paints, Shingle-Stains.

Claims use since July 20, 1918.

Ser. No. 114,028. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SOCIÉTÉ ANONYME LES FILS DE L. BRAUNSCHWEIG, FABRIQUE ELECTION, La Chaux-de-Fonds, Switzerland. Filed Nov. 2, 1918.



No claim is made to the words "Grand Prix, Berne, 1914" apart from the mark shown in the drawing.

Particular description of goods.—Watches and Parts Thereof.

Claims use since Nov. 14, 1914.

Ser. No. 114,451. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEN E. LAPEYRE, Great Falls, Mont. Filed Dec. 2, 1918.

HYDRASTIA

Particular description of goods.—Toilet Cream for Use upon the Skin.

Claims use since 1890.

Ser. No. 114,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BURT OLNEY CANNING COMPANY, Onelda, N. Y. Filed Dec. 9, 1918.



The picture of the boy in the drawing is fanciful.

Particular description of goods.—Condensed and Evaporated Milk.

Claims use since about the 10th day of October, 1918.

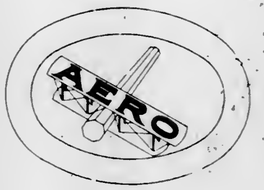
Ser. No. 114,576. (CLASS 39. CLOTHING.) THE WARNER BROTHERS COMPANY, Bridgeport, Conn. Filed Dec. 9, 1918.

A
B
C

Particular description of goods.—Brassière Combination-Undergarments and Undergarments for Women.

Claims use since Dec. 20, 1917.

Ser. No. 114,590. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHEFFIELD WORKS, INC., New York, N. Y., assignor to The Aero Works, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1918.



Particular description of goods.—Saws, Machine-Knives, Tobacco-Knives, Cane-Knives, and Corn-Knives.

Claims use since Oct. 1, 1918.

Ser. No. 114,700. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LUTHER GRINDER MANUFACTURING COMPANY, Milwaukee, Wis. Filed Dec. 18, 1918.



Is in the natural color of the metal plate upon which it appears, except as to the background, which is in black, no claim being made to the word "Grit" apart from the mark as shown in the drawing.

Particular description of goods.—Tool-Grinding Machines.

Claims use since Oct. 1, 1911.

Ser. No. 114,784. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM H. JOSLIN, Providence, R. I. Filed Dec. 23, 1918.

THE "ACE" LACES IN

The drawing is lined or shaded to indicate that the letters "ACE" as they appear in both the second and last words of the mark are in gold.

Particular description of goods.—Braids, Shoe-Laces, Galoons, and Corset-Laces.

Claims use since Dec. 16, 1918.

Ser. No. 114,791. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE WHITE COMPANY, Cleveland, Ohio. Filed Dec. 23, 1918.

White

The word "White."

Particular description of goods.—Automobiles and Motor-Trucks.

Claims use since about January, 1909.

Ser. No. 114,875. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN WALTER BECKER, Chicago, Ill. Filed Dec. 30, 1918.

IDEAL

Particular description of goods.—Abrasive Devices Particularly Adapted for Use on Commutators of Electric Machines for Smoothing Up Such Commutators.

Claims use since Dec. 12, 1916.

Ser. No. 115,018. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL EQUIPMENT COMPANY, Springfield, Mass. Filed Jan. 6, 1919.



The words and letters "National Equipment Co." and "Springfield, Mass., U. S. A." are hereby disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Chocolate and Confectionery Machinery Comprising Reducers, Grinders, Sugar-Mills, Pulverizers, Disk and Roll Refiners, Mélangeurs, Chasers, Conges, Cocoa-Presses, Coating-Machines, Decorating-Machines, Depositors, Confectionery and Paste Molding Machines, Machines for Molding Nuts and Confectionery, Tempering-Machines, Caramelizing-Machines; Machines for Emptying Trays Containing Candies Molded in Starch, for Refilling the Trays with Starch, for Forming Molds in the Starch, for Separating and Separately Cleaning and Delivering the Candies and Starch; Marshmallow-Beaters, Shaking-Tables, Cold Boxes, Starch-Molding Apparatus, Tray-Emptying and Tray-Filling Devices, Mold-Forming Apparatus, Automatic Starch-Molding Apparatus, and Confectionery-Cleaning Devices.

Claims use since 1911.

Ser. No. 115,072. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Jan. 9, 1919.

ONEIDA COMMUNITY RELIANCE PLATE

"Oneida Community, Reliance Plate," no claim being made to the word "Plate," which forms no part of the mark.

Particular description of goods.—Flat-Ware Plated with Precious Metal, Comprising Spoons, Forks, Knives, Ladles, Carvers, Game-Shears, Sugar-Tongs, Servers, Food-Pushers, and Cheese-Scoops.

Claims use to the word "Oneida" since in or about the year 1883, as to the word "Community" since in or about the year 1880, and as to the composite mark since about June 10, 1909.

Ser. No. 115,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUGAL CREE, Chicago, Ill. Filed Jan. 13, 1919.



Particular description of goods.—Smoked Meats—Namely, Hams, Bacon, Sausage, Tongue, Chopped Beef: Canned Meats; Pickled Meats—Namely, Pigs' Feet, Tongue, Tripe, Pork-Snouts and Ox-Lips, Corned Beef, and Lard.

Claims use since Dec. 7, A. D. 1918.

Ser. No. 115,566. (CLASS 27. HOROLOGICAL INSTRUMENTS.) DUBOIS WATCH CASE COMPANY, Brooklyn, N. Y. Filed Feb. 1, 1919.

THERMO

Particular description of goods.—Watches.

Claims use since Sept. 1, 1918.

Ser. No. 115,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETÀ INDUSTRIE CHIMICHE ITTIOLO, Naples, Italy. Filed Feb. 6, 1919.



Consisting in the figure of a fossil fish, above which appears the word "Orittolo."

Particular description of goods.—Sulfoichthyolic Acid and Sulfoichthyolates; Aqueous, Glyceric, and Autolic Ethereal Solutions of Said Substances, Either Alone or in Combination with other Substances, for Dermatological and Gynecological Use; Pomades Containing the Sulfoichthyolates for Medicinal Uses in Cachets, Pearls, or Capsules or in Sealed Vials for Hypodermic Use; Solution of Sulfoichthyolates, Either Alone or in Combination with other Substances, for Veterinary Use.

Claims use since the 14th of November, 1914.

Ser. No. 115,928. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Feb. 17, 1919.

PERMALBA

Particular description of goods.—Dry and Ready-Mixed Paints, Driers for Paints and Varnishes, Enamel Paints, Wood-Stains, Oil and Varnish Wall-Paints, Liquid Lacquers, Fillers for Use in Connection with Painting, and Varnishes.

Claims use since Feb. 1, 1919.

Ser. No. 116,047. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID CONNOR, Vancouver, British Columbia, Canada. Filed Feb. 21, 1919.



Disclaimer is hereby entered for the words "Brand, Value Brand" and "Sea Foods" and the representation of the fish apart from the showing made in the drawing.

Particular description of goods.—Canned Salmon.

Claims use since Mar. 16, 1918.

Ser. No. 116,098. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSCAR F. MAYER & BRO., Chicago, Ill. Filed Feb. 24, 1919.



Consists of a red seal having an outline resembling a wax seal, and no claim is made to the word "Approved" apart from the mark as shown in the drawing.

Particular description of goods.—Fresh, Dried, and Canned Ham, Bacon, Sausage, Beef Roll, Pork Roll, Meat-Loaf, and Fresh, Pickled, and Dried Tongue, Pork and Beans, Lard, Eggs, Butter, and Sausage.

Claims use since Apr. 25, 1918.

Ser. No. 116,226. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORTIMER WILLIAMS, Petersburg, Va. Filed Feb. 28, 1919.

LITTLE MORE

Particular description of goods.—Candy-Bars.

Claims use since January, 1913.

Ser. No. 117,003. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THEODORE BARGMAN, Detroit, Mich. Filed Mar. 29, 1919.

EVER GLOW

No claim being made to the exclusive use of the words "Ever Glow" apart from the mark and in the form as shown.

Particular description of goods.—Clock and Watch Dials.

Claims use since Jan. 15, 1919.

Ser. No. 117,074. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. D. VANSICKLE, ESTATE, Ashland, Pa. Filed Mar. 31, 1919.

RISING

Sun Oil.

Particular description of goods.—A Preparation for the Treatment of Diphtheria, Coughs, Colds, Whooping-Cough, Catarrh in the Head, Croup, and Burns, Pain in Side and Breast, Sore Throat, Sprains, Wounds, Bruises, Neuralgia, Toothache, Headache, and Frosted Feet.
Claims use since Jan. 5, 1888.

Ser. No. 117,140. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOPE WEBBING COMPANY, Pawtucket, R. I. Filed Apr. 3, 1919.

HOPE

Particular description of goods.—Webbing in the Piece Composed of Cotton, Silk, Artificial Silk, Jute, Worsted, Linen, Ramie, Tow, and Wool.
Claims use since the year 1883.

Ser. No. 117,231. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. R. HAEUSER CO., New York, N. Y. Filed Apr. 7, 1919.

No claim being made to the two letters "S" and "H" save in the form of a monogram, as shown.
Particular description of goods.—Varnishes, Shellacs, Lacquers, and Finishes Consisting of a Compound Varnish, Stain, and Color for Staining, Varnishing, and Coloring Ladies' Straw Hats from the Natural Braid in One Operation, French Varnishes, Ready-Mixed Paints, and Painters' Oils.
Claims use since Jan. 30, 1912.

Ser. No. 118,000. (CLASS 2. RECEPTACLES.) HENRY D. TUCKER, Avenel, N. J. Filed Apr. 29, 1919.

Sea San

Particular description of goods.—Knocked-Down Sand-Boxes.
Claims use since the 1st day of April, 1919.

Ser. No. 118,025. (CLASS 39. CLOTHING.) UNITED STAY COMPANY, Cambridge, Mass. Filed Apr. 30, 1919.

USC

Particular description of goods.—Boots, Shoes, Hats, Gloves, Made Wholly or in Part of Leather, Canvas, or Textile Material, for Men, Women, and Children.
Claims use since Feb. 23, 1915.

Ser. No. 118,213. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SADATSUGU NISHIKAWA, Los Angeles, Calif. Filed May 6, 1919.

CHASTAR

CHA

Particular description of goods.—Canned Tea.
Claims use since Jan. 15, 1917.

Ser. No. 118,450½. (CLASS 12. CONSTRUCTION MATERIALS.) SUPERIOR BUILDERS SUPPLY CO., Little Rock, Ark. Filed May 13, 1919.

WEATHEROOF

The words "The Key to Good Building" are hereby disclaimed apart from the trade-mark as shown in the drawing.
Particular description of goods.—Roll Composition Roofing (of Both Rubber Type and Slate-Surface Material) and Composition Slate-Surface Shingles.
Claims use since Jan. 1, 1919.

Ser. No. 118,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARBARA M. DESCH, Columbia, Pa. Filed May 19, 1919.

3 GREAT MIRACLES

Particular description of goods.—A Remedy for Lung Trouble.
Claims use since Dec. 1, 1918.

Ser. No. 118,745. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD BY-PRODUCTS CO., INCORPORATED, Louisville, Ky. Filed May 20, 1919.

STANDARD

DIGESTER TANKAGE

Particular description of goods.—Digester-Tankage, a Food for Stock.
Claims use since February, 1919.

Ser. No. 119,059. (CLASS 2. RECEPTACLES.) JULIAN ARMSTRONG, Chicago, Ill. Filed May 31, 1919.

Particular description of goods.—Wooden Tanks.
Claims use since Mar. 3, 1919.

Ser. No. 119,133. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID SCHIFF, New York, N. Y. Filed June 2, 1919.

SCHIFF

No claim being made to the words "The Quality Kind" and "Candies" apart from the mark shown.
Particular description of goods.—Candies.
Claims use since May 9, 1919.

Ser. No. 119,934. (CLASS 37. PAPER AND STATIONERY.) A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa. Filed June 25, 1919.

OAK LEAF COLLINS BRAND

Said drawing being lined for the purpose of shading only, and no claim being made to the name "Collins" or the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—A Coated Relief Overlay-Paper for Use in Preparing Overlays and Underlays for Printing-Forms.
Claims use since about January, 1918.

Ser. No. 119,935. (CLASS 11. INKS AND INKING MATERIALS.) A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa. Filed June 25, 1919.

OAK LEAF COLLINS BRAND

The drawing being lined for the purpose of shading only, and no claim being made to the name "Collins" or the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Printing-Ink for Use with an Overlay-Paper.
Claims use since about Jan. 1, 1918.

Ser. No. 119,937. (CLASS 37. PAPER AND STATIONERY.) A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa. Filed June 25, 1919.



The said drawing being lined for the purpose of shading only, and no claim being made to the name "Collins" or the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Coated Cardboard; Bristol-Board, and Coated Papers—Namely, Printing-Papers, Cover-Papers, Box-Covering Papers, and Decorative Papers.

Claims use since Jan. 1, 1910.

Ser. No. 119,992. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. G. WRIGLEY & CO., LTD., Birmingham, England. Filed June 26, 1919.

LEADER

Particular description of goods.—Milling-Cutters, Reamers, Twist-Drills, and Taps.

Claims use since the year 1910.

Ser. No. 119,993. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. G. WRIGLEY & CO., LTD., Birmingham, England. Filed June 26, 1919.

HALLMARK

Particular description of goods.—Milling-Cutters, Reamers, Twist-Drills, and Taps.

Claims use since 1910.

Ser. No. 120,009. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) E. B. MEYROWITZ, INC., New York, N. Y. Filed June 27, 1919.

MAGIC EAR-PHONE

Particular description of goods.—Mechanical Devices Used as an Aid to Hearing.

Claims use since Mar. 1, 1918.

Ser. No. 120,263. (CLASS 39. CLOTHING.) FRANK SCHOBLE & CO., Philadelphia, Pa. Filed July 3, 1919.



Particular description of goods.—Men's Felt Hats.

Claims use since Jan. 1, 1919.

Ser. No. 120,393. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE C. SPIRO MFG. CO., New York, N. Y. Filed July 9, 1919.

UNIQ

Particular description of goods.—Running-Boards, Mats for Automobile Running-Boards and Floors, Heel-Plates and Heel-Rests for Automobiles.

Claims use since on or about Dec. 1, 1914.

Ser. No. 120,439. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETA INDUSTRIE CHIMICHE ITTIOLO, Naples, Italy. Filed July 10, 1919.

TIOFORMOLO

Consisting of the word "Tioformolo."

Particular description of goods.—Chemical Preparations Containing Formaldehyde, Together with a Product Derived from Mineral-Shale Oils, for the Treatment of Diseases of the Intestines, Peritonitis, Dysenteris, Tubercular Enteritis and Similar Ailments.

Claims use since the 2d of January, 1919.

Ser. No. 120,523. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LEROY E. DAVIDSON, Buffalo, N. Y. Filed July 14, 1919.



No claim being made for the representation of a moving-picture projecting-machine, reels, and films apart from the mark shown.

Particular description of goods.—Moving-Picture Films.

Claims use since May, 1918.

Ser. No. 120,578. (CLASS 15. OILS AND GREASES.) THE OHIO GREASE COMPANY, Loudonville, Ohio. Filed July 15, 1919.



Particular description of goods.—Cylinder-Grease, Graphite Grease, Mica Grease, Shafting-Grease, Mine-Car-Lubricating Grease, Gear-Grease, Motor-Lubricating Oil, Air-Compressor Oil, Fiber Grease, Transmission-Grease, Cup-Grease, Automobile-Grease, Journal-Grease, Commutator Compound, Engine-Lubricating Oil, Turbine-Lubricating Oil, and Bearing-Grease.

Claims use since Mar. 5, 1913.

Ser. No. 120,621. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. RICE COMPANY, Philadelphia, Pa. Filed July 16, 1919.

BO-PEEP

Particular description of goods.—Nursery Furniture—Namely, Beds, Cribs, Cabinets, Bassinets, Wardrobes, Screens, Chairs, Dressing-Tables, Comfort-Seats, Folding Tables, Play-Yards, Clothes-Trees, Clothes-Driers, Clothes-Hangers, Mattresses, and Pillows.

Claims use since on or about July 3, 1919.

Ser. No. 120,626. (CLASS 37. PAPER AND STATIONERY.) HERBERT TERRY & SONS LTD., Redditch, England. Filed July 16, 1919.



Particular description of goods.—Pocket-Clips for Fountain-Pens and Pencils, Paper-Clips, Paper-Fasteners, and Paper-Perforators.

Claims use since Feb. 3, 1915.

Ser. No. 120,700. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FAIRMONT BEVERAGE CO., Cincinnati, Ohio. Filed July 19, 1919.

Maybloom

Particular description of goods.—Non-Intoxicating Cereal Malt Beverage Containing Less Than One-Half of One Per Cent. Alcohol, by Volume, and Sold as a Soft Drink.

Claims use since May 15, 1919.

Ser. No. 120,737. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. B. ANSBACHER & COMPANY, INC., New York, N. Y. Filed July 21, 1919.



Particular description of goods.—Insecticides and Fungicides.

Claims use since July 8, 1919.

Ser. No. 120,802. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN G. SULTANAKI, Savannah, Ga. Filed July 22, 1919.

Rodomint



The lining shown in the drawing is for the purpose of indicating a shading only. The trade-mark consists of the representation of a female native bearing a sheaf of the herb from which the tea is made and the word "Rodomint" placed adjacent thereto.

Particular description of goods.—Herb Tea.

Claims use since June 10, 1919.

Ser. No. 120,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind. Filed July 23, 1919.



Particular description of goods.—Wheat-Flour.

Claims use since the beginning of this company, Mar 23, 1897.

Ser. No. 120,949. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RICHARD M. BEARD, New York, N. Y. Filed July 26, 1919.

The Americolite

Particular description of goods.—Electric-Lighting Fixtures.
Claims use since Mar. 27, 1919.

Ser. No. 120,975. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STERLING VARNISH COMPANY, Pittsburgh, Pa. Filed July 26, 1919. Under ten-year proviso.

STERLING

Particular description of goods.—Varnishes for Electric Insulation.
Claims use since March, 1894.

Ser. No. 121,010. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed July 28, 1919.

"TAL-LY-HO"

Particular description of goods.—Ladies', Misses', and Children's Wearing-Apparel—Namely, Suits, Dresses, Waists; Union-Suits, Underwear, Drawers, Chemises of Textile Materials; Dressing-Gowns, Kimonos; Bloomers, Combination-Suits, Vests of Textile Material; Rompers; Also Men's Wearing-Apparel—Namely, Outer Shirts, Neckties, Dressing-Gowns, Robes, Underwear of Textile Material, Coats, and Pants.
Claims use since May 5, 1919.

Ser. No. 121,071. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & Co., Prague, Bohemia. Filed July 29, 1919.

Liberty

Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Safety-Pins, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Snap-Fasteners, Thimbles, Straight Solid-Headed Pins for Personal Use, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.
Claims use since July 15, 1913.

Ser. No. 121,156. (CLASS 39. CLOTHING.) WARREN D. PORTER, San Francisco, Calif. Filed July 31, 1919.

W O P
KLOZD FRUNT

The right to the exclusive use of the words "Klozd Frunt" except in connection with the rest of the mark shown is hereby disclaimed.
Particular description of goods.—Men's and Boys' Underwear Composed of a Textile Fabric Formed into a One-Piece Garment.
Claims use since February, 1919.

Ser. No. 121,159. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) "SNAPLOK," INC., New York, N. Y. Filed July 31, 1919.

SNAPLOK

Applicant makes no claim to the exclusive use of the mark "Snap Lok" except in the form shown in the drawing forming part of this application.
Particular description of goods.—Snap-Fasteners.
Claims use since July 18, 1919.

Ser. No. 121,204. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. S. HEPWORTH COMPANY, New York, N. Y. Filed Aug. 2, 1919.



Particular description of goods.—Centrifugal Driers, Filters, and Separators and Parts Thereof.
Claims use since July 15, 1919.

Ser. No. 121,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE STOLLWERCK CHOCOLATE COMPANY, Stamford, Conn., and New York, N. Y. Filed Aug. 4, 1919.



Particular description of goods.—Cocoa and Chocolate.
Claims use since January, 1905.

Ser. No. 121,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE STOLLWERCK CHOCOLATE COMPANY, Stamford, Conn., and New York, N. Y. Filed Aug. 4, 1919.

STOLLWERCK

Particular description of goods.—Cocoa and Chocolate.
Claims use since January, 1905.

Ser. No. 121,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAIL BROTHERS, Philadelphia, Pa. Filed Aug. 7, 1919.

FAIRMOUNT
MAGIC

"Fairmount" is not claimed apart from the other features of the mark shown.
Particular description of goods.—A Depilatory in Powder, Paste, and Liquid Form.
Claims use since about twenty years last past.

Ser. No. 121,493. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEE-O MFG. CO., New York, N. Y. Filed Aug. 9, 1919.

TEE-O

Particular description of goods.—Rice Wafers.
Claims use since on or about Aug. 1, 1919.

Ser. No. 121,536. (CLASS 17. TOBACCO PRODUCTS.) MINNESOTA TOBACCO COMPANY, Duluth, Minn. Filed Aug. 11, 1919.



No claim is made to the words "Egyptian Cigarettes, Delightful Quality."
Particular description of goods.—Cigarettes.
Claims use since Aug. 1, 1919.

Ser. No. 121,568. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. E. DOCKENDORFF & CO. INC., New York, N. Y. Filed Aug. 12, 1919.



No claim being made to the printed matter shown on the drawing, with the exception of the word "Jedco," apart from the mark as shown.
Particular description of goods.—A Nickel-Chromium-Alloy Wire with a Specific Resistance of Six Hundred Ohms per Circular Mil Foot; Specific Gravity, 8.15; Temperature Coefficient, (Fahrenheit,) .0002; Melting-Point, 2,800° Fahrenheit.
Claims use since Nov. 1, 1918.

Ser. No. 121,570. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. E. DOCKENDORFF & CO. INC., New York, N. Y. Filed Aug. 12, 1919.



No claim being made to the printed matter shown on the drawing, with the exception of the word "Mephisto," apart from the mark as shown.
Particular description of goods.—A Nickel-Chromium-Alloy Wire with a Specific Resistance of Five Hundred and Seventy-Five Ohms per Circular Mil Foot; Specific Gravity, 8.05; Temperature Coefficient, (Fahrenheit,) .0001; Melting-Point, 3,000° Fahrenheit.
Claims use since Nov. 1, 1918.

Ser. No. 121,572. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. E. DOCKENDORFF & CO. INC., New York, N. Y. Filed Aug. 12, 1919.



No claim being made to the printed matter shown on the drawing, with the exception of the word "Pyro," apart from the mark as shown.
Particular description of goods.—A Copper-Nickel-Alloy Wire with a Specific Resistance of Two Hundred and Ninety-Six Ohms per Circular Mil Foot; Specific Gravity, 8.9; Temperature Coefficient, (Fahrenheit,) *nil;* Melting-Point, 2,200° Fahrenheit.
Claims use since Nov. 1, 1918.

Ser. No. 121,654. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BURTON BROTHERS, Chicago, Ill. Filed Aug. 14, 1919.



Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same and Colors and Flavors in Preparation Thereof.
Claims use since Nov. 1, 1918.

Ser. No. 121,744. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed Aug. 18, 1919.



Particular description of goods.—Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Envelops for Correspondence, Writing-Tablets, Pencil-Tablets, Drawing-Tablets, Spelling-Tablets, and Blank Books.
Claims use since Jan. 30, 1919.

Ser. No. 121,752. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill. Filed Aug. 18, 1919.



DEPEND UPON THAT NAME

No claim is made to the word "Chicago" or the word "Pneumatic" or the phrase "Depend Upon That Name" apart from the mark shown by the drawing.

Particular description of goods.—Pneumatic Riveting, Chipping, Calking, and Stone Hammers; Pneumatic Yoke, Jam, and Shell Riveters; Drift-Bolt Drivers, Rivet-Busters, Air-Drills, Wood-Boring Machines, Pistol and Rotary Drills, Grinders for Smoothing Surfaces of Metals, Corner-Drills, Chucks, Reamers, Flue-Cutters, Angle-Gears, Twist-Drills, Augers, Flue-Expanders, Hose-Clamp Tools, Pliers, Steam and Power Driven Air-Compressors, Gas and Gasolene Driven Air-Compressors, Hand-Drills, Coal-Drills, Portable Air-Compressors, Fuel-Oil Engines, Gas-Engines, Mine-Hoists, Rock-Drills, Drill-Tripods, Mining-Columns, Sand-Pumps, Sinker-Drills, Stoper-Drills; Pneumatic Percussive Tools for Smoothing, Polishing, Cutting, Engraving, or Otherwise Working Stone-Tools; Air-Injectors, Air-Motors, Air-Jacks, Automatic Oiling Devices, Cranes, Bolt-Drivers, Drilling-Stands, Elevators, Sand-Rammers, Stone-Dressers, Portable Winches, Track-Drills, Spindle-Drills, Spike-Drivers, Hammer-Drills, Circuit-Breakers, and Air-Conditioning Apparatus for Pneumatic Tools—Namely, After-Coolers, Reheaters, and Inter-coolers.
Claims use since May 1, 1919.

Ser. No. 121,779. (CLASS 38. PRINTS AND PUBLICATIONS.) PRODUCER MUSIC COMPANY, St. Louis, Mo. Filed Aug. 18, 1919.



The lining on the drawing is intended for the purpose of shading only.
Particular description of goods.—Sheet-Music.
Claims use since July 30, 1919.

Ser. No. 121,791. (CLASS 12. CONSTRUCTION MATERIALS.) JUNIUS H. STONE, New York, N. Y. Filed Aug. 18, 1919.

NO-NOIS

Particular description of goods.—Prepared Felt for Construction Purposes.
Claims use since July 7, 1919.

Ser. No. 121,799. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) WIN-HER WASHER COMPANY, Des Moines, Iowa. Filed Aug. 18, 1919.



No claim is made to the words "Washer" and "Des Moines, Iowa" apart from the mark shown.
Particular description of goods.—Laundry-Washing Machines, Wringers, and Parts Thereof.
Claims use since Mar. 1, 1919.

Ser. No. 121,804. (CLASS 12. CONSTRUCTION MATERIALS.) DANIEL EICHENFELD, Tulsa, Okla. Filed Aug. 19, 1919.



The words "The Sub-Pipe System of Irrigation" and "Trade Mark" appearing in the drawing are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Wooden Pipes and Splicings.
Claims use since Apr. 1, 1919.

Ser. No. 121,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES BAYARD HENRY, Los Altos, Calif. Filed Aug. 21, 1919.



The use of the word "Brand" is disclaimed apart from the manner shown in the drawing.
Particular description of goods.—Dried Fruits.
Claims use since about 1917.

Ser. No. 121,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARCHIE R. SMITH, St. Louis, Mo. Filed Aug. 22, 1919.



Particular description of goods.—Hair-Tonic, Dandruff-Eradicator, and Complexion-Cream.
Claims use since May 19, 1892.

Ser. No. 121,922. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COLONIAL WORKS, Brooklyn, N. Y. Filed Aug. 23, 1919.



Particular description of goods.—Paste Paints, Liquid Paints, Varnishes, Enamel Paints, Putty, Wood-Fillers, Wood-Stains, Floor-Wax, Paint-Oils, Wall-Sizing, and Calcimine.
Claims use since about June 13, 1919.

Ser. No. 121,929. (CLASS 27. HOROLOGICAL INSTRUMENTS.) IRVING FLORMAN, New York, N. Y. Filed Aug. 23, 1919.

FLEXOGLASS

Particular description of goods.—Flexible Protective Facings or Coverings for Watch and Clock Dials.
Claims use since November, 1918.

Ser. No. 122,015. (CLASS 15. OILS AND GREASES.) HERCULES PETROLEUM COMPANY, Dallas, Tex. Filed Aug. 26, 1919.

HERCULES

Particular description of goods.—Fuel-Oils.
Claims use since April, 1918.

Ser. No. 122,024. (CLASS 39. CLOTHING.) W. O. PEAKE, LTD., London, England. Filed Aug. 26, 1919.

RODEX

The trade-mark consists of the invented word "Rodex."
Particular description of goods.—Weatherproof Coats.
Claims use since 1916.

Ser. No. 122,085. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM DUDLEY ROY, Belleview, Tenn. Filed Aug. 28, 1919.

Rescue

Particular description of goods.—Playing-Cards.
Claims use since July 1, 1916.

Ser. No. 122,168. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE GUARANTEE SPECIALTY MANUFACTURING COMPANY, Cleveland, Ohio. Filed Aug. 30, 1919.

10-POINT

Particular description of goods.—Snap-Fasteners.
Claims use since about Feb. 26, 1919.

Ser. No. 122,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. S. BALL CANDY COMPANY, Dayton, Ohio. Filed Sept. 2, 1919.

Elinor's DAYTON, O.

Consisting of the word "Elinor's." No claim is made to the words "Dayton, O." apart from the mark as here shown.
Particular description of goods.—Candy.
Claims use since Aug. 12, 1919.

Ser. No. 122,209. (CLASS 37. PAPER AND STATIONERY.) ALBERT W. ENGEL, Chicago, Ill. Filed Sept. 2, 1919.



The picture of a young woman contained in the trade-mark is a fanciful one and not the portrait of an individual. The lines shown upon the drawing are intended to indicate shading only and not color.
Particular description of goods.—Picture or Sheet Mounting Devices.
Claims use since April, 1913.

Ser. No. 122,226. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OHIO HOTEL OPERATING COMPANY, Youngstown, Ohio. Filed Sept. 2, 1919.

Rip CHOCOLATES

No claim being made to the word "Chocolates."
Particular description of goods.—Chocolates.
Claims use since July 15, 1919.

Ser. No. 122,561. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) UNITED THEATRE EQUIPMENT CORPORATION, Wilmington, Del., and New York, N. Y. Filed Sept. 10, 1919.

U-T-E

Particular description of goods.—Motion-Picture-Projection Machines, Portable Projectors, Motion-Picture Slides, Electric-Lighting Equipment and Apparatus Consisting of Arc-Lamps and Mazda Lamps, and Lamp-Houses Designed and Adapted for Motion-Picture-Projecting Machines, Motion-Picture Screens, Motion-Picture Lenses.
Claims use since May 1, 1917.

Ser. No. 122,669. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) STACY DAVIS TRUMBO, Columbus, Ohio. Filed Sept. 13, 1919.

PANDORA

Particular description of goods.—Catamenial Bandage.
Claims use since Aug. 1, 1919.

Ser. No. 122,691. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. H. DYER COMPANY, Evansville, Ind. Filed Sept. 15, 1919.

DYCO

Particular description of goods.—Pure Fruit Jam, Pure Fruit Preserves, Pure Fruit Jelly, and Table-Syrup.
Claims use since Mar. 20, 1919.

Ser. No. 122,902. (CLASS 39. CLOTHING.) MAYER & GOLDSMITH, New York, N. Y. Filed Sept. 19, 1919.

Mayer & Goldsmith
May Smith
Paris
New York

No claim is made to the words "Mayer & Goldsmith" or to "Paris, New York" apart from the mark shown on the drawing.
Particular description of goods.—Trimmed and Untrimmed Hats.
Claims use since May 1, 1919.

Ser. No. 122,973. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. A. COLMAN COMPANY, New York, N. Y. Filed Sept. 22, 1919.

SILK & COTTON
COLMAN
FABRICS

No claim is made to the words "Silk and Cotton" and "Fabrics" apart from the mark shown in the drawing.
Particular description of goods.—Textiles in the Piece—Namely, Cotton, Wool, Silk and Cotton Mixtures, Silk and Wool Mixtures, and Wool and Cotton Mixtures.
Claims use since August, 1915.

Ser. No. 123,026. (CLASS 17. TOBACCO PRODUCTS.) HALLE-PERRIS TRADING CORPORATION, New York, N. Y. Filed Sept. 23, 1919.

FEDORA

Particular description of goods.—Cigarettes.
Claims use since July 25, 1919.

Ser. No. 123,077. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Sept. 24, 1919.

BPS

The disk-shaped and rectangular figures of which trade-mark are colored yellow.
Particular description of goods.—Dry and Ready-Mixed Paints, Driers, Enamel Paints, Wood-Stains, Wall-Paints, Liquid Lacquers, Fillers, and Varnishes.
Claims use since June, 1909.

Ser. No. 123,108. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Sept. 25, 1919.

Cambridge

Particular description of goods.—Fabrics of Silk and Silk Mixtures.
Claims use since about 1914.

Ser. No. 123,138. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Sept. 25, 1919.

CLUB

Particular description of goods.—Flat-Ware Plated with Precious Metal, Comprising Spoons, Forks, Knives, Ladles, Carvers, Game-Shears, Sugar-Tongs, Servers, Food-Pushers, and Cheese-Scoops.
Claims use since July 31, 1919.

Ser. No. 123,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DRY MILK COMPANY, New York, N. Y. Filed Sept. 26, 1919.

LECHE KEL

The word "Leche" (milk) being disclaimed apart from the mark as shown.
Particular description of goods.—Dry Milk.
Claims use since Dec. 5, 1918.

Ser. No. 123,169. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE REMINGTON ARMS UNION METALLIC CARTRIDGE CO. INC., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y. Filed Sept. 26, 1919.

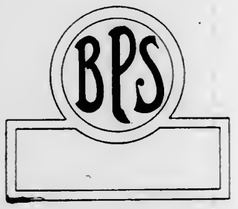


The background being red.

Particular description of goods.—Military and Sporting Rifles, Shotguns, Pistols, Metallic Cartridges, Metallic Shot-Shells, Paper Shot-Shells, Empty Metallic and Paper Shells, Blank Cartridges, Caps, Primers, Wads, and Bullets.

Claims use since Feb. 1, 1911.

Ser. No. 123,173. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Sept. 26, 1919.



Particular description of goods.—Dry and Ready-Mixed Paints, Driers, Enamel Paints, Wood-Stains, Oil and Varnish Wall-Paints, Liquid Lacquers.

Claims use since June, 1909.

Ser. No. 123,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATLANTIC COAST DISTRIBUTORS, Charleston, S. C. Filed Sept. 26, 1919.

A-C-D

Particular description of goods.—Fruit and Fresh Vegetables in Their Natural State.

Claims use since Mar. 11, 1915.

Ser. No. 123,226. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE STANDARD COMMERCIAL EXPORT AND FINANCE CORPORATION, New York, N. Y. Filed Sept. 27, 1919.



No claim is made for the reading-matter appearing on the drawing apart from the mark as shown.

Particular description of goods.—Oleo-Oil Used as a Substitute for Butter or as an Ingredient in a Butter Substitute.

Claims use since June 5, 1919.

Ser. No. 123,246. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES F. HAANEL, St. Louis, Mo. Filed Sept. 29, 1919.



Particular description of goods.—Printed Books, Booklets, Circulars, Pamphlets, and Periodicals Issued from Time to Time.

Claims use since the month of June, 1918.

Ser. No. 123,339. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Oct. 2, 1919.

Demi Tasse

Particular description of goods.—Candy.

Claims use since Apr. 7, 1919.

Ser. No. 123,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOOTON COCOA COMPANY, Newark, N. J. Filed Oct. 2, 1919.



The word "Hooton's" being hereby disclaimed apart from the mark shown. Exclusive use of the word "Raisinut" is hereby disclaimed apart from the mark shown.

Particular description of goods.—Milk-Chocolate Bars.

Claims use since Aug. 8, 1919.

Ser. No. 123,367. (CLASS 39. CLOTHING.) ROSENBAUM BROTHERS, Salt Lake City, Utah. Filed Oct. 2, 1919.



Particular description of goods.—Overalls for Men and Boys.

Claims use since May, 1915.

Ser. No. 123,411. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WHITELITE ELECTRIC COMPANY, New York, N. Y. Filed Oct. 3, 1919.



Applicant disclaims exclusive use of the words "Dual Light."

Particular description of goods.—Incandescent Lamps.

Claims use since about May, 1919.

Ser. No. 123,419. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY B. BERNARD, Jefferson, S. D. Filed Oct. 4, 1919.



Particular description of goods.—Worm-Expeller, Horse-Tonic, Cattle-Tonic, Hog-Tonic, and Hog-Dip.

Claims use since June, 1919.

Ser. No. 123,430. (CLASS 15. OILS AND GREASES.) CHARLIE E. DOTY, Oklahoma, Okla. Filed Oct. 4, 1919.



The vertical lines in the diamond on the drawing indicate shading only.

Particular description of goods.—Petroleum and the Following Petroleum Products: Gasolene, Kerosene, Naphtha, Distillate, Gas-Oil, Fuel-Oil, Lubricating Oils and Greases.

Claims use since Apr. 15, 1918.

Ser. No. 123,434. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LEONARD L. GILCREASE, Reno, Nev. Filed Oct. 4, 1919.

JILL

Particular description of goods.—Adjustable Supports for Supporting the Axles of Vehicles, Such as Automobiles and the Like, When Once Raised to an Elevated Position by Means of Any of the Conventional Types of Jacks.

Claims use since November, 1918.

Ser. No. 123,444. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MAYCLESE, New York, N. Y. Filed Oct. 4, 1919.



Consisting of the word "Mayclese."

Particular description of goods.—Clock-Dial.

Claims use since Sept. 20, 1919.

Ser. No. 123,462. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Oct. 4, 1919.

EIDELWHITE

Particular description of goods.—Wedding, Ledger, Photomount, Book, Cover, and Writing Papers, Bond-Papers for Both Writing and Printing Purposes, Bristol-Board, Paper and Cardboard for Picture and Photograph Mats, Stationery-Paper for Correspondence, and Cardboard Generally.

Claims use since July 26, 1919.

Ser. No. 123,463. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Oct. 4, 1919.

MILLCRAFT

Particular description of goods.—Wedding, Ledger, Photomount, Book, Cover, and Writing Papers, Bond-Papers for Both Writing and Printing Purposes, Bristol-Board, Paper and Cardboard for Picture and Photograph Mats, Stationery-Paper for Correspondence, and Cardboard Generally.
Claims use since Nov. 22, 1917.

Ser. No. 123,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARTIN-PEMBERTON COMPANY, Chicago, Ill. Filed Oct. 6, 1919.

Banquete

Consisting of the word "Banquete" displayed on a light-blue band.
Particular description of goods.—Canned Sausage.
Claims use since October, 1917.

Ser. No. 123,506. (CLASS 32. FURNITURE AND UPHOLSTERY.) VINCENNES FURNITURE MFG. CO., Vincennes, Ind. Filed Oct. 6, 1919.

IDEAL

Particular description of goods.—Kitchen-Cabinets.
Claims use since 1905.

Ser. No. 123,564. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WIRELESS SPECIALTY APPARATUS COMPANY, New York, N. Y., and Boston, Mass. Filed Oct. 8, 1919.

TRIODE

Comprising the word "Triode" and shown in the accompanying drawing.
Particular description of goods.—Vacuum-Tube Devices, Parts and Accessories Therefor, Including Amplifiers, Vacuum-Tube Control-Boxes, Amplifier-Detectors, Two-Step Amplifiers, Oscillators, Circuit-Drivers, Vacuum-Tube Sockets, Grid-Leaks, and Vacuum-Tubes for Use in Radio Communication, Telegraphy, and Telephony.
Claims use since Aug. 28, 1919.

Ser. No. 123,572. (CLASS 39. CLOTHING.) ENGLE AND ZEIMER, New York, N. Y. Filed Oct. 9, 1919.

Chic Hats

No claim being made to the use of the word "Hats."
Particular description of goods.—Ladies' Hats.
Claims use since Oct. 1, 1919.

Ser. No. 123,610. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOD BACKE, Brooklyn, N. Y. Filed Oct. 10, 1919.

The Candy Tryst

GEMINI

The trade-mark—"The Candy Tryst"—with the two figures of Gemini beneath and the word "Gemini" beneath the figures, no claim being made to the word "Candy" apart from the other features of the mark shown in the drawing.
Particular description of goods.—Candies.
Claims use since Mar. 1, 1919.

Ser. No. 123,648. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. A. JONES FOUNDRY & MACHINE CO. Chicago, Ill. Filed Oct. 10, 1919.

J

Particular description of goods.—Spur-Gear Reducers, Worm-Gear Speed-Reducers, Power-Transmission Machinery Used in Connection with Machinery.
Claims use since Jan. 15, 1914.

Ser. No. 123,652. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JACK GEORGE METROPOL, Manning, S. C. Filed Oct. 10, 1919.

CANDY COLA

Particular description of goods.—Non-Alcoholic Non-Intoxicating Non-Cereal Maltless Beverage Sold as a Soft Drink.
Claims use since July 18, 1919.

Ser. No. 123,661. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RUMMELL MANUFACTURING WORKS, Findlay, Ohio. Filed Oct. 10, 1919.

RUMMELL'S —SUPER— SPARK PLUG

No claim is made to the exclusive use of the words "Spark Plug" apart from the trade-mark shown in the drawing.
Particular description of goods.—Spark-Plugs.
Claims use since Sept. 18, 1918.

Ser. No. 123,688. (CLASS 6. CHEMICALS MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATHAN ERBER, Fort Wayne, Ind. Filed Oct. 11, 1919.

PLEASANT FOR THE SKIN
BRITE
AN ALL AROUND SKIN LOTION

The picture being fanciful and no claim being made to the words "Trade Mark," "Pleasant for the Skin," and "An All Around Skin Lotion" apart from the trade-mark.
Particular description of goods.—A Skin-Lotion.
Claims use since Oct. 3, 1919.

Ser. No. 123,825. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE PRESTO-FELT MFG. CO., Toledo, Ohio. Filed Oct. 15, 1919.

PRESTO-FELT

No claim is made to the word "Felt" except in association with the mark shown in the drawing.
Particular description of goods.—Wiping and Cleaning Apparatus for Automobile Wind-Shields, &c.
Claims use since July, 1918.

Ser. No. 123,845. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI FÉRIER, Lyon, France. Filed Oct. 16, 1919.

SÉDUISIA

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and other Textile Fabrics.
Claims use since Feb. 14, 1918.

Ser. No. 123,858. (CLASS 17. TOBACCO PRODUCTS.) THE KIRSCHBAUM COMPANY, Savannah, Ga. Filed Oct. 16, 1919.

Kirco DIPS

No claim is made to the word "Dips" apart from the mark shown on the drawing.
Particular description of goods.—Cigars.
Claims use since December, 1915.

Ser. No. 123,872. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROY W. BRIDGMAN, San Jose, Calif. Filed Oct. 17, 1919.

STOP IT!!

Consisting of the words "Stop It."
Particular description of goods.—Perspiration-Counteractor.
Claims use since Sept. 22, 1919.

Ser. No. 123,963. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CLYDE MILLING & ELEVATOR CO., Clyde, Kans. Filed Oct. 20, 1919.

POINTER

Particular description of goods.—Wheat-Flour.
Claims use since August, 1903.

Ser. No. 124,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EUGENE G. PIERCE, Chicago, Ill. Filed Oct. 20, 1919.

ACE

Particular description of goods.—Popcorn, Shelled and Unpopped.
Claims use since Aug. 22, 1919.

Ser. No. 124,010. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE W. T. RAWLEIGH COMPANY, Freeport, Ill. Filed Oct. 20, 1919.



Particular description of goods.—A Polish for Painted, Varnished, Waxed, and Similar Surfaces.
Claims use since Nov. 8, 1918.

Ser. No. 124,017. (CLASS 39. CLOTHING.) FRANKLIN SIMON & Co. INC., New York, N. Y. Filed Oct. 20, 1919.

WEARMOOR

Particular description of goods.—Women's, Misses', and Children's Undergarments and Clothing—Namely, Suits, Sport-Suits, Top-Coats and Overcoats, Sport-Coats, Raincoats, Mackinaws, Slippers, Dresses, Skirts, Bloomers, Waists, Blouses, Nightgowns, Petticoats, Bodices, Drawers, Chemises, Combinations, Riding-Habits, Golf-Suits, Bathing-Suits, Swimming-Suits, Caps, Gloves, Collars, Sweaters, Mufflers, Bath-Robes, Socks, Stockings, Pajamas, Scarfs, Corsets Made Out of Textile Material, and Suits, Sport-Suits, Top-Coats and Overcoats, Sport-Coats, Raincoats, Mackinaws, Slippers, Dresses, Skirts, Bloomers, Waists, Blouses, Nightgowns, Petticoats, Bodices, Drawers, Chemises, Combinations, Riding-Habits, Golf-Suits, Bathing-Suits, Swimming-Suits, Caps, Gloves, Collars, Sweaters, Mufflers, Bath-Robes, Socks, Stockings, Pajamas, Scarfs, Corsets Made Out of Knitted Material, and Gloves, Slippers, House-Slippers, Boots, Overgaiters, Puttees, Leggings, Riding-Boots, Riding-Shoes, Shoes, Hats, and Caps Made Out of Leather, and Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House-Coats, Waistcoats, Bath and Smoking Robes, Smoking-Jackets, Drawers, Pajamas, Dress-Shirts, Undershirts, Night-Shirts, Under-Suits, Bathing-Suits, Swimming-Suits, Dressing-Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress-Suits, Golf-Suits, Hunting-Suits, Riding-Suits, Tuxedo Suits, Walking-Suits, Sack-Suits, Trousers, Hats, Caps, Blouses, and Ties Made Out of Textile Material, and House-Coats, Waistcoats, Bath and Smoking Robes, Smoking-Jackets, Drawers, Pajamas, Soft Shirts, Undershirts, Union-Suits, Bathing-Suits, Swimming-Suits, Dressing-Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Hunting-Suits, Riding-Suits, Hats, Caps, Blouses, and Ties Made Out of Knitted Material, and Gloves, Slippers, House-Slippers, Boots, Overgaiters, Puttees, Leggings, Riding-Boots, Riding-Shoes, Shoes, Hats, and Caps Made Out of Leather.
Claims use since the 30th day of June, 1919.

Ser. No. 124,137. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EDISON LABORATORIES, Chicago, Ill. Filed Oct. 24, 1919.



The words "Hair Shampoo," as shown in the accompanying drawing, are hereby disclaimed as part of the trade-mark.
Particular description of goods.—Hair-Shampoo.
Claims use since Oct. 1, 1919.

Ser. No. 124,138. (CLASS 2. RECEPTACLES.) GILSON BROS., New York, N. Y. Filed Oct. 24, 1919.



No claim is being made to the words "Brand" and number "441" on the key apart from the mark shown in the drawing.
Particular description of goods.—Paper Bags.
Claims use since the 1st day of May, 1919.

Ser. No. 124,143. (CLASS 15. OILS AND GREASES.) JOHNSON OIL REFINING COMPANY, Chicago Heights, Ill. Filed Oct. 24, 1919.



No claim is made to the words "Johnson" and "Oils" except when used in connection with the trade-mark as shown in the drawing.
Particular description of goods.—Petroleum, Gasolene, Kerosene, Naphtha, Lubricating-Oils, Distillate, Fuel-Oils, Black Oil, Lubricating-Greases, and Paraffin-Wax.
Claims use since on or about Nov. 1, 1917.

Ser. No. 124,183. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MODERN FOOD COMPANY, New York, N. Y. Filed Oct. 25, 1919.

KAKO

Particular description of goods.—Powder Convertible into Beverages, Made of Cocoa, Sugar, Powdered Milk, or other Ingredients.
Claims use since Sept. 1, 1919.

Ser. No. 124,185. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE NINETEEN HUNDRED WASHER COMPANY, Binghamton, N. Y. Filed Oct. 25, 1919.



Particular description of goods.—Clothes-Washing Machine.
Claims use since Oct. 10, 1919.

Ser. No. 124,199. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Oct. 27, 1919.

BUCKEYE

Particular description of goods.—Printing-Paper, Writing-Paper, Box and Book Cover Paper; Enamel Paper for Boxes, Folders, Pamphlets, and Books; Tissue-Paper, Toilet-Paper, Paper Towels, and Paper Napkins.
Claims use since Sept. 1, 1919.

Ser. No. 124,202. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Oct. 27, 1919.

Copco

Particular description of goods.—Printing-Paper, Writing-Paper, Box and Book Cover Paper; Enamel Paper for Boxes, Folders, Pamphlets, and Books; Tissue-Paper, Toilet-Paper, Paper Towels, and Paper Napkins.
Claims use since Sept. 1, 1919.

Ser. No. 124,226. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT WILKINSON NEWTON, Providence, R. I. Filed Oct. 27, 1919.

NEW VICTORY

Consists of the words "New Victory."
Particular description of goods.—Automatic Sprinklers.
Claims use since Oct. 10, 1919.

Ser. No. 124,243. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WHITELITE ELECTRIC COMPANY, New York, N. Y. Filed Oct. 27, 1919.



"2 in 1" and the representation of an electric-light bulb are disclaimed apart from the manner in which they are shown in the drawing.
Particular description of goods.—Incandescent Lamps.
Claims use since about May, 1919.

Ser. No. 124,247. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y. Filed Oct. 28, 1919.

ALMACOA

Particular description of goods.—Isolated Electric-Lighting Plants, Electric-Storage-Battery Locomotives, and Electrically-Operated Shovels.
Claims use since Sept. 28, 1918.

Ser. No. 124,309. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MOORE ELECTRIC CORPORATION, Chicago, Ill. Filed Oct. 29, 1919.

The Moore

The word "The" is disclaimed apart from the mark as shown. The word "Moore," as shown in the mark, is a facsimile of the surname of the signature of Geo. W. Moore, M. D.
Particular description of goods.—Electric Hair-Clippers, Electric Motors, and Electric Hair-Driers.
Claims use since Aug. 1, 1918.

Ser. No. 124,338. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES M. FARRER, Seattle, Wash. Filed Oct. 30, 1919.

Dolly Dubble-Up

Particular description of goods.—Doll-Buggies.
Claims use since May 20, 1919.

Ser. No. 124,385. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo. Filed Oct. 31, 1919.

BlueBird

Particular description of goods.—Ironing-Machines, Wringing-Machines, and Sadirons.
Claims use since Sept. 6, 1919.

Ser. No. 124,410. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) KAMPFE BROS., Brooklyn, N. Y. Filed Oct. 31, 1919.

STAR

Particular description of goods.—Shaving-Brushes.
Claims use since Sept. 1, 1919.

Ser. No. 124,411. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) KAMPFE BROS., Brooklyn, N. Y. Filed Oct. 31, 1919.



Particular description of goods.—Shaving-Brushes.
Claims use since Sept. 1, 1919.

Ser. No. 124,440. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HADDEN AUTOMATIC SPRINKLER COMPANY, Los Angeles, Calif. Filed Nov. 1, 1919.

RAINMAKER

Particular description of goods.—Lawn and Garden Sprinkling and Horticultural Irrigation Systems, and Valves and other Parts of Such Systems.
Claims use since June 13, 1919.

Ser. No. 124,486. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MATTHEWS ENGINEERING CO., Sandusky, Ohio. Filed Nov. 3, 1919.

MATTHEWS AUTOMATIC

The exclusive right to the use of the word "Automatic" independent of its use in connection with the trade-mark "Matthews" is disclaimed.
Particular description of goods.—Unitary Electric Plants.
Claims use since March, 1914.

Ser. No. 124,515. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DISTINCTIVE JEWELRY CO., INC., New York, N. Y. Filed Nov. 4, 1919.

SILVERIN

Particular description of goods.—Jewelry for Personal Wear, Not Including Watches, Made of Precious Metal or Base Metal or of Base Metal Plated with Precious Metal.
Claims use since about June 1, 1919.

Ser. No. 124,516. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DISTINCTIVE JEWELRY CO., INC., New York, N. Y. Filed Nov. 4, 1919.

SILVANIR

Particular description of goods.—Jewelry for Personal Wear, Not Including Watches, Made of Precious Metal or Base Metal or of Base Metal Plated with Precious Metal.
Claims use since about Oct. 1, 1919.

Ser. No. 124,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LYON & GREENLEAF CO., Ligonier, Ind. Filed Nov. 4, 1919.

RELIANCE

Consisting of the word "Reliance."
Particular description of goods.—Wheat-Flour.
Claims use since Jan. 1, 1884.

Ser. No. 124,533. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PARK CHEMICAL COMPANY, Great Falls, Mont. Filed Nov. 4, 1919.

VITLYZE

Particular description of goods.—Automobile-Body Polish and Cleaner.
Claims use since August, 1919.

Ser. No. 124,557. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. E. FISHER & SONS, Mahanoy City, Pa. Filed Nov. 4, 1919.



The portraits shown on the drawing being those of Ralph Eugene Fisher, Norman A. Fisher, and Earl J. Fisher, all members of the firm.
Particular description of goods.—Hair-Tonic.
Claims use since January, 1919.

Ser. No. 124,577. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FREDERICK R. PARKER, Chicago, Ill. Filed Nov. 5, 1919.

METALODES

Particular description of goods.—High-Potential-Electricity-Arrester Electrodes.
Claims use since Mar. 10, 1917.

Ser. No. 124,580. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ROBERT SWISKY, Chicago, Ill. Filed Nov. 5, 1919.

VEL-COMB

Particular description of goods.—Hat-Brushes.
Claims use since Sept. 23, 1919.

Ser. No. 124,608. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSTON DRY GOODS CO., Birmingham, Ala. Filed Nov. 6, 1919.



Particular description of goods.—Cloth Piece Goods—Namely, Cotton, Cotton and Silk, Cotton and Wool, Silk, Silk and Wool, Wool, and Cotton and Linen.
Claims use since May 20, 1919.

Ser. No. 124,614. (CLASS 37. PAPER AND STATIONERY.) JOSEPH I. LEVY, Philadelphia, Pa. Filed Nov. 6, 1919.

LEKOV

Particular description of goods.—A Sanitary Paper Cover for Toilet-Seats Which is Adapted to be Slipped Over or Supported upon Said Seats.
Claims use since about Nov. 1, 1919.

Ser. No. 124,634. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLF & BIRD, San Francisco, Calif. Filed Nov. 6, 1919.

RED-WHITE AND BLUE

Particular description of goods.—Food-Flavoring Extracts—Namely, Lemon and Vanilla; Strained and Comb Honey, Glucose, Whole and Shelled Nuts in Their Natural State, Table-Syrups, Shredded Cocoanut, Gelatin, Marshmallow, Icing-Glacé, Fruit Jelly, Pie-Filler; Table Beverages—Namely, Coffee, Cocoa, and Chocolate; Spices—Namely, Mace and Cinnamon.
Claims use since Sept. 6, 1919.

Ser. No. 124,681. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE FORWARD SPARKING PLUG CO., Birmingham, England. Filed Nov. 8, 1919.

FORWARD

Particular description of goods.—Sparking Plugs for Internal-Combustion Engines.
Claims use since the year 1909.

Ser. No. 124,717. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa. Filed Nov. 10, 1919.



Particular description of goods.—Food-Choppers, Combination Meat and Food Cutters, Fruit and Lard Presses, and Tobacco-Cutters.
Claims use since 1909.

Ser. No. 124,727. (CLASS 39. CLOTHING.) NEW YORK BOYS' SHOPS, INC., New York, N. Y. Filed Nov. 10, 1919.



Particular description of goods.—Boys' Clothing and Wearing-Apparel—Namely, Suits, Coats, and Trousers, Overcoats, Leather Coats, Rubber Coats, Mackinaws, Sweaters, Scout-Uniforms, Caps and Hats, Outer Blouses, Outer Shirts, Outer Waists, Overalls, Rompers, Undershirts, Underdrawers and Union-Suits, Bath-Robes, Pajamas, Leather Gloves, Fabric Gloves, Hosiery, Leggings, Rubber Shoes, Slippers, Stiff and Soft Collars.
Claims use since Sept. 6, 1919.

Ser. No. 124,732. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUEISSER & CO., Hamburg, Germany. Filed Nov. 10, 1919.

Kaliklora

Particular description of goods.—Creams and Paste for the Teeth.
Claims use since 1917.

Ser. No. 124,733. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUEISSER & Co., Hamburg, Germany. Filed Nov. 10, 1919.

Lovan

Particular description of goods.—Cream for the Skin, Particularly an Ointment Serving for Improvement of the Skin.
Claims use since 1917.

Ser. No. 124,743. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OLLIE WINGATE, Atlanta, Ga. Filed Nov. 10, 1919.

Five–O

Particular description of goods.—Pile Remedy.
Claims use since September, 1917.

Ser. No. 124,750. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DETER-SOL SALES COMPANY, Denver, Colo. Filed Nov. 11, 1919.

TRADE Deter Sol MARK

No claim is made to the words "Trade Mark" except in connection with the general design and arrangement of the trade-mark.
Particular description of goods.—A Preparation to Preserve and Renew Platens.
Claims use since on or about Oct. 27, 1919.

Ser. No. 124,788. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE FEDERAL SOAP COMPANY, Columbus, Ohio. Filed Nov. 12, 1919.

SILK

Particular description of goods.—Yellow Laundry Soap.
Claims use since Aug. 5, 1890.

Ser. No. 124,804. (CLASS 39. CLOTHING.) LOUIS POTTER, New York, N. Y. Filed Nov. 12, 1919.

AMERICAN CORDUROY PANTS CO

I disclaim any right to the exclusive use of the words "Corduroy" and "Pants" except as they form part of the combination constituting the trade-mark.
Particular description of goods.—Men's, Youths', Boys' Corduroy and Khaki Trousers and Suits, as Well as for Trousers and Suits of Worsted, Serge, Fustian, or Cloths of Whatever Nature Suitable for the Manufacture of Trousers and Suits.
Claims use since Jan. 1, 1919.

Ser. No. 124,809. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ONEIDA CORPORATION, Chicago, Ill. Filed Nov. 12, 1919.

Liquid Razor

Particular description of goods.—Depilatories.
Claims use since Nov. 3, 1919.

Ser. No. 124,835. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRANK W. ALTER, Chicago, Ill. Filed Nov. 13, 1919.

TransAtlantic

Particular description of goods.—Timepieces.
Claims use since Jan. 2, 1916.

Ser. No. 124,836. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRANK W. ALTER, Chicago, Ill. Filed Nov. 13, 1919.

Grand Central

Particular description of goods.—Timepieces.
Claims use since Jan. 2, 1916.

Ser. No. 124,837. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRANK W. ALTER, Chicago, Ill. Filed Nov. 13, 1919.

Trans-Position

Particular description of goods.—Timepieces.
Claims use since Jan. 2, 1916.

Ser. No. 124,838. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRANK W. ALTER, Chicago, Ill. Filed Nov. 13, 1919.

GREAT WESTERN LIMITED

Particular description of goods.—Timepieces.
Claims use since Jan. 2, 1915.

Ser. No. 124,924. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YOUNG & WILE, LTD., New York, N. Y. Filed Nov. 14, 1919.

YOUNG & WILE, LTD. JANITOSE SYRUP NEW YORK & LONDON

The language "Young & Wile, Ltd., Syrup, New York & London" is disclaimed as a part of the mark.
Particular description of goods.—Corn and Maltose Syrups for Use as a Sugar Substitute for Flavoring Foodstuffs.
Claims use since Nov. 1, 1919.

Ser. No. 124,938. (CLASS 39. CLOTHING.) HESSBERG, MORRIS & GUNST, INC., Baltimore, Md. Filed Nov. 15, 1919.

JACK HORNER Youngster Wear

The lining being intended to designate the shading only. No claim is made to the words "Youngster Wear" apart from the combination in which it is shown in the drawing.
Particular description of goods.—Boys' Suits.
Claims use since Oct. 1, 1919.

Ser. No. 124,959. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SENTANEL REMEDIES COMPANY, Wilmington, Del. and Cincinnati, Ohio. Filed Nov. 15, 1919.

Arcine

Particular description of goods.—A Medicine for Headache, Rose-Fever, Hay-Fever, Colds in the Head and General Catarrhal Conditions, Sprains, Bruises, Neuralgia, Rheumatism, and Inflammation.
Claims use since on or about July 30, 1919.

Ser. No. 124,977. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DE PREE CHEMICAL COMPANY, Holland, Mich. Filed Nov. 17, 1919.



Particular description of goods.—Complexion Powder.
Claims use since on or about the 1st day of September, 1919.

Ser. No. 125,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUT HOUSE, INC., Seattle, Wash. Filed Nov. 17, 1919.

GARNETS

Particular description of goods.—Sugared Peanuts.
Claims use since October, 1917.

Ser. No. 125,032. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STUART PRODUCTS CORPORATION, Chicago, Ill. Filed Nov. 17, 1919.



The lines of the drawing are not intended to indicate color, but to indicate shading only.
Particular description of goods.—Electric Batteries.
Claims use since on or about Nov. 1, 1918.

Ser. No. 125,046. (CLASS 27. HOROLOGICAL INSTRUMENTS.) WILLIAM J. BERNARD, New York, N. Y. Filed Nov. 18, 1919.

MISTIC

Consisting of the word "Mistic."
Particular description of goods.—Watches.
Claims use since Oct. 30, 1919.

Ser. No. 125,052. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Nov. 18, 1919.

WORMOL

Particular description of goods.—Insecticide.
Claims use since about Sept. 1, 1919.

Ser. No. 125,077. (CLASS 33. GLASSWARE.) CORNING GLASS WORKS, Corning, N. Y. Filed Nov. 19, 1919.

CORNING DAYLITE GLASS

The trade-mark, which consists of an oval-shaped figure having a solid colored inner portion conforming to the shape of the oval, in which is arranged the word "Daylite," the letters conforming to the shape of the oval, the words "Corning" and "Glass" being respectively arranged in the oval above and below the solid portion, no claim being made to the exclusive use of the words "Corning," "Daylite," and "Glass" except in association with the mark as shown.

Particular description of goods.—Glass.
Claims use since about Aug. 1, 1919.

Ser. No. 125,081. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN A. DE LUCA, St. Helena, Md. Filed Nov. 19, 1919.

De-Lite

Particular description of goods.—Baking-Powder.
Claims use since on or about July 1, 1919.

Ser. No. 125,086. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRANOLAX COMPANY, New York, N. Y. Filed Nov. 19, 1919.

GRAINOLAX

Particular description of goods.—A Laxative.
Claims use since Oct. 1, 1919.

Ser. No. 125,105. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CONNECTICUT ELECTRIC STEEL CO., INC., Hartford, Conn. Filed Nov. 20, 1919.



Particular description of goods.—Wrought Tool-Steel, Wrought-Steel, Wrought-Iron, Steel Castings, and Tool-Steel.
Claims use since Mar. 24, 1917.

Ser. No. 125,109. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GETS 'EM CO., Tifton, Ga. Filed Nov. 20, 1919.

Gets 'Em

Particular description of goods.—Liquid Insecticide.
Claims use since on or about Nov. 1, 1918.

Ser. No. 125,113. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JIFFIE-STRAIGHT COMPANY, INCORPORATED, Petersburg, Va. Filed Nov. 20, 1919.

Jiffie-Straight

Particular description of goods.—A Pomade for the Scalp and Hair.
Claims use since about May, 1918.

Ser. No. 125,121. (CLASS 37. PAPER AND STATIONERY.) NEW YORK OVERSEA CO., INC., New York, N. Y. Filed Nov. 20, 1919.

OVERALL

Particular description of goods.—Writing and Printing Bond-Paper, Ledger-Paper, Writing-Paper, and Mailing-Envelops.
Claims use since on or about Aug. 20, 1919.

Ser. No. 125,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAXO CHEMICAL CO., Houston, Tex. Filed Nov. 20, 1919.

Anti-Thermes

Particular description of goods.—Plastic Surgical Dressing.
Claims use since Aug. 22, 1919.

Ser. No. 125,133. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAXO CHEMICAL CO., Houston, Tex. Filed Nov. 20, 1919.

Mentho-Phenique

Particular description of goods.—Liquid Antiseptic Used as a Gargle, Mouth-Wash, and for Similar Purposes.
Claims use since Aug. 22, 1919.

Ser. No. 125,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH N. THIBODEAUX, Houston, Tex. Filed Nov. 20, 1919.

KADENTOL

Particular description of goods.—Tooth-Powders, Tooth-Pastes, and Mouth-Washes.
Claims use since May 5, 1919.

Ser. No. 125,137. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Nov. 20, 1919.

ANULODOR

Particular description of goods.—Deodorants.
Claims use since Nov. 10, 1919.

Ser. No. 125,188. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ARTHUR H. LYONS, Philadelphia, Pa. Filed Nov. 22, 1919.

LYONCO

The background of the mark is colored red, as indicated in the drawing.

Particular description of goods.—Storage Batteries and Parts Thereof.
Claims use since about Nov. 17, 1919.

Ser. No. 125,197. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOUTHERN CHEMICAL PRODUCTS CO., Baltimore, Md. Filed Nov. 22, 1919.

Dento-Deodorono

No claim is made to the exclusive use of the word "Dento" apart from the mark shown.

Particular description of goods.—A Germicide Deodorizing and Disinfectant Dentifrice Preparation.
Claims use since Nov. 1, 1919.

Ser. No. 125,228. (CLASS 39. CLOTHING.) CAROLYN M. HUNT, Los Angeles, Calif. Filed Nov. 24, 1919.

Fairy

Particular description of goods.—Girls' Cotton Wash-Dresses and Rompers from Two to Six Years of Age.
Claims use since Sept. 1, 1919.

Ser. No. 125,269. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULES WEBER, INC., New York, N. Y. Filed Nov. 24, 1919.

CONNOISSEUR

Particular description of goods.—Oils of Cotton-Seed or the Like for Food Purposes and Chocolates.
Claims use since August, 1913.

Ser. No. 125,286. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM KEA, Dublin, Ga. Filed Nov. 25, 1919.



The portrait is that of the applicant and the signature is his facsimile signature.

Particular description of goods.—Worm and Insect Exterminator.
Claims use since Oct. 27, 1919.

Ser. No. 125,320. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) C. DEWITT LUKENS SURGICAL MANUFACTURING CO., St. Louis, Mo. Filed Nov. 26, 1919.

Adheso

Particular description of goods.—A Steam-Sterilized Antiseptic Water-Soluble Surgical Dressing and Cement in Form of a Paste, Which is Adapted for Application to Surgical Bandages.
Claims use since about July 26, 1919.

Ser. No. 125,325. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ANGELO GIGLIO, New York, N. Y. Filed Nov. 26, 1919.

THE PRINCESS FAVORITE

Particular description of goods.—Powder-Puffs.
Claims use since October, 1917.

Ser. No. 125,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATHAN G. JOHNSON, Atmore, Ala. Filed Nov. 26, 1919.

R.M.T.

Particular description of goods.—A Liniment for Swollen Joints, Rheumatism, Headache, and Neuralgia and a Medicine for Rheumatism and Paralysis.
Claims use since September, 1919.

Ser. No. 125,334. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. J. MEYER MANUFACTURING CO., Milwaukee, Wis. Filed Nov. 26, 1919.

MEYER-DUMORE

Particular description of goods.—Bottle-Washing Machines.
Claims use since Jan. 1, 1919.

Ser. No. 125,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHESTER S. MILLS, Pittsburgh, Pa. Filed Nov. 26, 1919.

2820
TO WAIT TO WOE

Particular description of goods.—Medicated Tablets Used as a Laxative.
Claims use since Jan. 1, 1919.

Ser. No. 125,340. (CLASS 17. TOBACCO PRODUCTS.) RUSSIAN TEA ROOM & ART SHOP, Chicago, Ill. Filed Nov. 26, 1919.

RTR

Particular description of goods.—Cigarettes.
Claims use since Oct. 15, 1916.

Ser. No. 125,341. (CLASS 17. TOBACCO PRODUCTS.) RUSSIAN TEA ROOM & ART SHOP, Chicago, Ill. Filed Nov. 26, 1919.

ЧАЙНАЯ
(TCHAI-NA-YA)
Russian Tea Room
CIGARETTES

No claim is made to the words "Russian Tea Room, Cigarettes" apart from the mark as shown in the drawing.
Particular description of goods.—Cigarettes.
Claims use since Oct. 15, 1916.

Ser. No. 125,342. (CLASS 17. TOBACCO PRODUCTS.) RUSSIAN TEA ROOM & ART SHOP, Chicago, Ill. Filed Nov. 26, 1919.



Particular description of goods.—Cigarettes.
Claims use since Oct. 15, 1916.

Ser. No. 125,355. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE. HENRY WIENER, New York, N. Y. Filed Nov. 26, 1919.

PICCADILY

Particular description of goods.—Mesh Bags, Pocket-Books, and Purses Mounted in Precious Metal or in Base Metal Plated with Precious Metal.
Claims use since Mar. 26, 1918.

Ser. No. 125,362. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BROWN'S TOOTH POWDER COMPANY, San Francisco, Calif. Filed Nov. 28, 1919.

REGULATION

Particular description of goods.—A Medicinal Preparation to be Used as a Dentifrice, Such as Tooth-Powder, for Hardening the Gums and Removing Tartar.
Claims use since June 7, 1919.

Ser. No. 125,379. (CLASS 37. PAPER AND STATIONERY.) MAURICE FRASER, Detroit, Mich. Filed Nov. 28, 1919.

SAN-O-SEAT

Particular description of goods.—A Sanitary Cover for Toilet-Seats.
Claims use since Aug. 1, 1919.

Ser. No. 125,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEON GAWURIN, New York, N. Y. Filed Nov. 28, 1919.

NEODON

Particular description of goods.—Mouth-Wash, Tooth-Powder, and Tooth-Paste, Face-Powder, Toilet Powder, Perfume, Toilet Water, Sachet-Powder, Face-Cream, Brilliantine, Face-Lotion, Face-Paste, Toilet Cream, Rouge, Liquid Tint, Smelling-Salt.
Claims use since Sept. 10, 1912.

Ser. No. 125,381. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEON GAWURIN, New York, N. Y. Filed Nov. 28, 1919.

Engardyn

Particular description of goods.—Face-Powder, Toilet Powder, Perfume, Toilet Water, Sachet-Powder, Face-Cream, Brilliantine, Face-Lotion, Face-Paste, Toilet Cream, Rouge, Liquid Tint, Smelling-Salt, Tooth-Powder, Tooth-Paste.
Claims use since May 1, 1911.

Ser. No. 125,398. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ANGELO MANNELLO, New York, N. Y. Filed Nov. 28, 1919.

RIVOLA

Consisting of the word "Rivola."
Particular description of goods.—Phonographs and Talking-Machines.
Claims use since Nov. 1, 1919.

Ser. No. 125,418. (CLASS 12. CONSTRUCTION MATERIALS.) CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y. Filed Nov. 29, 1919.

CELCOTE

Particular description of goods.—A Semiplastic and Adhesive Cement Used for Coating the Surfaces of the Boiler-Settings, Furnaces, Kilns, and other Construction Work to Make Them Impervious to Air and Water.
Claims use since Oct. 27, 1919.

Ser. No. 125,423. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Nov. 29, 1919.

MARIPOSA

Particular description of goods.—Rock-Drills.
Claims use since about Nov. 15, 1919.

Ser. No. 125,424. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Nov. 29, 1919.

IMPERIAL

Particular description of goods.—Air - Compressors, Vacuum-Pumps, Regulating Devices for Air-Compressors, Hoists, Rotary Pneumatic Motors, Rotary Drills, Hammer Rock-Drills, Riveting-Hammers, Chipping-Hammers, Rivet Holders-On, Pneumatic Tie-Tamping Machines, and Water-Spray Attachments for Rock-Drills.
Claims use since about Dec. 7, 1900.

Ser. No. 125,464. (CLASS 39. CLOTHING.) IMPERIAL KNITTING CO., Milwaukee, Wis. Filed Dec. 1, 1919.

Art Kota

Particular description of goods.—Sweaters, Shawls, Scarfs, Hoods, and Caps.
Claims use since on or about Nov. 10, 1919.

Ser. No. 125,491. (CLASS 39. CLOTHING.) THE CAMPE CORPORATION, New York, N. Y. Filed Dec. 2, 1919.

TOPSALL

Consisting of the word "Topsall."
Particular description of goods.—Bathing-Suits, Sweaters, and Jerseys.
Claims use since Nov. 21, 1919.

Ser. No. 125,521. (CLASS 39. CLOTHING.) WIESEN & GOLDSTEIN, INC., New York, N. Y. Filed Dec. 2, 1919.

Victorious

Consisting of the word "Victorious."
Particular description of goods.—Dresses and Costumes.
Claims use since Jan. 1, 1907.

Ser. No. 125,548. (CLASS 15. OILS AND GREASES.) FRANK P. SYMONDS, Salem, Mass. Filed Dec. 3, 1919.



Particular description of goods.—Lubricating-Oil.
Claims use since 1899.

Ser. No. 125,559. (CLASS 39. CLOTHING.) BLOOM & MOSES, INC., Baltimore, Md. Filed Dec. 4, 1919.

CLIPPER

Particular description of goods.—Female Apparel—Namely, Middy-Blouses, Suits, Skirts, Dresses, Bloomers, and Aprons.
Claims use since about Nov. 1, 1919.

Ser. No. 125,586. (CLASS 39. CLOTHING.) WALTER M. STEPPACHER & BRO. INC., Philadelphia, Pa. Filed Dec. 4, 1919.

Emery

Particular description of goods.—Men's and Children's Clothing Made of Cotton, Silk, and Woolen Fabrics and Consisting of Dress-Shirts, Negligée Shirts, Undershirts, Drawers, Union-Suits, and Pajamas.
Claims use since March, 1879.

Ser. No. 125,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD BURNHAM, Chicago, Ill. Filed Dec. 5, 1919.

"Glint"

Particular description of goods.—Preparation Used as a Hair-Brightener, Hair-Shampoo, and to Restore Natural Color to Hair.
Claims use since 1909.

Ser. No. 125,655. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) EMERSON PIANO COMPANY, Boston, Mass. Filed Dec. 6, 1919.

Emerson.
BOSTON.
U.S.A.

Being the word "Emerson," no claim being made for the words "Boston, U. S. A.," shown in the drawing and facsimiles.
Particular description of goods.—Sound-Reproducing Instruments, (Phonographs.)
Claims use since Dec. 1, 1919.

Ser. No. 125,660. (CLASS 27. HOROLOGICAL INSTRUMENTS.) KNICKERBOCKER WATCH CO., New York, N. Y. Filed Dec. 6, 1919.

FELCO

Consisting of the word "Felco."
Particular description of goods.—Watches.
Claims use since Aug. 1, 1919.

Ser. No. 125,661. (CLASS 27. HOROLOGICAL INSTRUMENTS.) KNICKERBOCKER WATCH CO., New York, N. Y. Filed Dec. 6, 1919.

MURA

Consisting of the word "Mura."
Particular description of goods.—Watches.
Claims use since Aug. 1, 1919.

Ser. No. 125,700. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIRSCH BROTHERS CO., INC., Chicago, Ill. Filed Dec. 8, 1919.

EXACT

Particular description of goods.—Whip-Powder.
Claims use since May 13, 1911.

Ser. No. 125,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWESTERN CANDY COMPANY, Waterloo, Iowa. Filed Dec. 8, 1919.

TOCONUT

Particular description of goods.—Candied Nut-Bars.
Claims use since Sept. 15, 1919.

Ser. No. 125,727. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) ANNIE SIMS, Pittsburgh, Pa. Filed Dec. 8, 1919.



The trade-mark consisting of my portrait.
Particular description of goods.—A Salve for Use in the Treatment of the Scalp.
Claims use since the 10th day of May, 1917.

Ser. No. 125,729. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) MARY E. SULLIVAN, Richmond, Va. Filed Dec. 8, 1919.

VOPOSO

Particular description of goods.—Dentifrice and Antiseptic Deodorant.
Claims use since the 1st of March, 1919.

Ser. No. 125,736. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WINNER MFG. CO., Rochester, N. Y. Filed Dec. 8, 1919.

WINNER.

Particular description of goods.—Heel-Plates for Rubber Heels and Heel-Plates and Toe-Plates for Boots and Shoes.
Claims use since Aug. 26, 1919.

Ser. No. 125,763. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TAYLOR, TUNNICLIFF AND COMPANY, LIMITED, Hanley, England. Filed Dec. 9, 1919.

FISH-SPINE

Particular description of goods.—Electric Insulators Made of Porcelain.
Claims use since August, 1917.

Ser. No. 125,768. (CLASS 27. HOROLOGICAL INSTRUMENTS.) J. BULOVA COMPANY, New York, N. Y. Filed Dec. 10, 1919.

PHANTOM

Consisting of the word "Phantom."
Particular description of goods.—Watches for Men and Ladies.
Claims use since Nov. 18, 1919.

Ser. No. 125,769. (CLASS 27. HOROLOGICAL INSTRUMENTS.) J. BULOVA COMPANY, New York, N. Y. Filed Dec. 10, 1919.

PROVIDENCE

Consisting of the word "Providence."
Particular description of goods.—Men's and Ladies' Watches.
Claims use since Nov. 18, 1919.

Ser. No. 125,786. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OTTO F. LOUIS, Bay City, Mich. Filed Dec. 10, 1919.

PyroSep

Particular description of goods.—An Antiseptic Mouth-Wash Used for the Prevention and Treatment of Pyorrhea.
Claims use since Nov. 29, 1917.

Ser. No. 125,792. (CLASS 39. CLOTHING.) MAZZEI SKIRT CO. INC., New York, N. Y. Filed Dec. 10, 1919.

SHIMMY SKIRTS

The word "Skirts" being disclaimed when used apart from the mark as shown in the drawing.
Particular description of goods.—Skirts.
Claims use since the 1st day of November, 1919.

Ser. No. 125,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM S. SCULL COMPANY, Camden, N. J. Filed Dec. 10, 1919.

BoScuL

Particular description of goods.—Tea and Rice.
Claims use on tea since Oct. 6, 1913, and on rice since June 20, 1917.

Ser. No. 125,809. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELLIS V. STUART, Indianapolis, Ind. Filed Dec. 10, 1919.

KANT KUT

No claim is made to the words "Kant Kut" except the fanciful manner in which these words are arranged and spelled.

Particular description of goods.—Ignition-Wire Conduits.

Claims use since Apr. 22, 1919.

Ser. No. 125,812. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAKAMINE LABORATORY INC., New York, N. Y. Filed Dec. 10, 1919.

TAQUININE

Particular description of goods.—Quinin Ethyl Carbonate.

Claims use since Nov. 1, 1919.

Ser. No. 125,822. (CLASS 27. HOROLOGICAL INSTRUMENTS.) J. BULOVA COMPANY, New York, N. Y. Filed Dec. 11, 1919.

LORD SPRINGFIELD

Consisting of the words "Lord Springfield."

Particular description of goods.—Men's and Ladies' Watches.

Claims use since Nov. 18, 1919.

Ser. No. 125,824. (CLASS 27. HOROLOGICAL INSTRUMENTS.) J. BULOVA COMPANY, New York, N. Y. Filed Dec. 11, 1919.

LADY SPRINGFIELD

Consisting of the words "Lady Springfield."

Particular description of goods.—Men's and Ladies' Watches.

Claims use since Nov. 18, 1919.

Ser. No. 125,831. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. CLARK'S CHEMICAL LABORATORIES, Chicago, Ill. Filed Dec. 11, 1919.

TER-CAM-FO

Particular description of goods.—A Preparation of Salvelike Consistency for the Alleviation of Colds in the Head and Chest, Coughs, Sore Throat, Tonsillitis, Bronchitis, Inflammations, Asthma, Whooping-Cough, and Croup.

Claims use since Dec. 1, 1919.

Ser. No. 125,834. (CLASS 27. HOROLOGICAL INSTRUMENTS.) AUGUST C. DITTRICH, Chicago, Ill. Filed Dec. 11, 1919.

The Pleasant-Call

Particular description of goods.—Clocks.

Claims use since Dec. 1, 1919.

Ser. No. 125,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAND UNION TEA CO., Brooklyn, N. Y. Filed Dec. 11, 1919.

PETROJEL

Particular description of goods.—Petroleum Jelly.

Claims use since about May 6, 1918.

Ser. No. 125,854. (CLASS 37. PAPER AND STATIONERY.) OSBORN PAPER COMPANY, Marion, Ind. Filed Dec. 11, 1919.

HYCLASS



Particular description of goods.—Writing and Printing Papers and Writing-Tablets.

Claims use since August, 1912.

Ser. No. 125,864. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SHERWIN-WILLIAMS CO., Cleveland, Ohio. Filed Dec. 11, 1919.

OYLAPINE

Particular description of goods.—Pine-Oil Disinfectant.

Claims use since Oct. 31, 1919.

Ser. No. 125,873. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUSTINOL CHEMICAL CO., INC., New York, N. Y. Filed Dec. 12, 1919.

Austinol

No claim being made to the words "Reg. U. S. Pat. Office" apart from the mark shown on the drawing.

Particular description of goods.—A Chemical Preparation for the Treatment of Dandruff.

Claims use since June 1, 1919.

Ser. No. 125,875. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BAUSCH MACHINE TOOL COMPANY, Springfield, Mass. Filed Dec. 12, 1919.

HM

Particular description of goods.—Non-Ferrous Metal in the Form of Sheets, Castings, and Forgings.

Claims use since Aug. 16, 1919.

Ser. No. 125,876. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA LIMA BEAN GROWERS ASSOCIATION, Oxnard, Calif. Filed Dec. 12, 1919.

SEASIDE

Particular description of goods.—Dry Lima Beans.

Claims use since Sept. 23, 1919.

Ser. No. 125,877. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA ALKALI CO., San Francisco, Calif. Filed Dec. 12, 1919.

TRIANGLE

Particular description of goods.—Neutral Soda Used for Cleaning and Washing.

Claims use since Oct. 1, 1919.

Ser. No. 125,878. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA ALKALI CO., San Francisco, Calif. Filed Dec. 12, 1919.

Mount Whitney

Particular description of goods.—Soda-Ash or Anhydrous Sodium Carbonate Used in the Manufacture of Glass, Sodium Silicate, Soap, and Many Chemicals Which Have Sodium as the Base.

Claims use since Oct. 1, 1919.

Ser. No. 125,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FEDERAL FUR & WOOL COMPANY, St. Louis, Mo. Filed Dec. 12, 1919.

VICTOR

Particular description of goods.—A Chemically-Compounded Fluid the Scent of Which Attracts Animals and Used as Bait.

Claims use since Oct. 5, 1919.

Ser. No. 125,886. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARL ELMER HALLGREN, Rock Island, Ill., and Davenport, Iowa. Filed Dec. 12, 1919.

ART ANIMA ADS

Particular description of goods.—Moving-Picture Films.

Claims use since May 1, 1918.

Ser. No. 125,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STARR FRUIT PRODUCTS CO., Portland, Oreg. Filed Dec. 12, 1919.



Particular description of goods.—Canned Fruits—Namely, Canned Apples, Quinces, Canned Pears, Canned Cherries, Canned Plums, Canned Prunes, Canned Apricots, Canned Peaches, and Canned Pineapples; Canned Berries—Namely, Canned Blackberries, Canned Loganberries, Canned Red Raspberries, Canned Gooseberries, and Canned Strawberries.

Claims use since July 24, 1919.

Ser. No. 125,941. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. E. BARTLETT & SONS, Tampa, Fla. Filed Dec. 13, 1919.

Friendship

Particular description of goods.—Fresh Fruits.

Claims use since 1918.

Ser. No. 125,961. (CLASS 25. LOCKS AND SAFES.) MILLER LOCK COMPANY, Philadelphia, Pa. Filed Dec. 13, 1919. Under ten-year proviso.

KILLER'S

Particular description of goods.—Locks.
Claims use since 1883.

Ser. No. 125,992. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BLAINE VAN HORN, Philadelphia, Pa. Filed Dec. 13, 1919.

RAZZ

Particular description of goods.—Instruments for Producing Comical Imitative Sounds.
Claims use since Oct. 10, 1919.

Ser. No. 126,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CASCADE INDUSTRIES COMPANY, Cascade, Md. Filed Dec. 15, 1919.

BLUE MOUNTAIN

"Blue Mountain."
Particular description of goods.—Candy.
Claims use since October, 1914.

Ser. No. 126,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROKER PACKING CO., San Francisco, Calif. Filed Dec. 15, 1919.

Hearthstone

Particular description of goods.—Canned Vegetables—Namely, Canned Asparagus and Canned Swiss Chard; Canned Fruits—Namely, Canned Pears and Canned Apricots—and Fruit Jams—Namely, Apricot Jam and Raspberry Jam.
Claims use since July 1, 1918.

Ser. No. 126,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK G. JUSTICE, Philadelphia, Pa. Filed Dec. 15, 1919.



Particular description of goods.—Cake.
Claims use since Dec. 4, 1919.

Ser. No. 126,041. (CLASS 37. PAPER AND STATIONERY.) L. A. LIEBS CO., INC., New York, N. Y. Filed Dec. 15, 1919.

THE CANDY WRAPPER HOUSE

No claim is made to the exclusive use of the phrase "The Candy Wrapper House" apart from the trade-mark as shown.
Particular description of goods.—Box-Cover Wrappers, Package-Labels, Shipping-Labels, and Shipping-Tags.
Claims use since Nov. 15, 1919.

Ser. No. 126,062. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. RUPERT COMPANY, INC., Portland, Oreg. Filed Dec. 15, 1919.

GOLDEN MIST

Particular description of goods.—Canned Fish—Namely, Canned Salmon.
Claims use since Oct. 27, 1919.

Ser. No. 126,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TWIN FALLS DEHYDRATING CO., Twin Falls, Idaho. Filed Dec. 15, 1919.



Particular description of goods.—Dehydrated Vegetables—Namely, Corn off Cob, Corn on Cob, Stringless Beans, Soup-Vegetables; Dehydrated Fruits—Namely, Italian Prunes, Peaches, Apples—and Apple-Butter.
Claims use since Oct. 23, 1919.

Ser. No. 126,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Dec. 16, 1919.

LIGHTNIN'

Particular description of goods.—Candy.
Claims use since Sept. 30, 1919.

Ser. No. 126,104. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Dec. 16, 1919.

TWINKLES

Particular description of goods.—Candy.
Claims use since Sept. 30, 1919.

Ser. No. 126,123. (CLASS 39. CLOTHING.) HOWARD-HULME-DITTRICH SHOE CO., Carthage, Mo. Filed Dec. 16, 1919.



Particular description of goods.—Children's, Misses', and Growing-Girls' Leather Shoes and Slippers.
Claims use since September, 1919.

Ser. No. 126,138. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ROY WATCH CASE COMPANY, New York, N. Y. Filed Dec. 16, 1919.

ROY

Particular description of goods.—Watchcases.
Claims use since July 1, 1885.

Ser. No. 126,196. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) RICHARDS AND CO., INCORPORATED, Boston, Mass. Filed Dec. 17, 1919.



Particular description of goods.—Pig-Tin.
Claims use since June 19, 1919.

Ser. No. 126,218. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE KRANTZ PRODUCTS COMPANY, Findlay, Ohio. Filed Dec. 18, 1919.



The lines appearing on the drawing are for shading only, and the human figures shown are fanciful.
Particular description of goods.—Root-Beer, Birch-Beer, Ginger-Ale, and Non-Intoxicating Cereal Maltless Beverages Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as Soft Drink.
Claims use since May 15, 1918.

Ser. No. 126,247. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DEW VALVE CO., INC., New York, N. Y. Filed Dec. 19, 1919.

DEW

Particular description of goods.—Automatic Relief-Valves for Steam-Engine Cylinders.
Claims use since Nov. 27, 1918.

Ser. No. 126,257. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ANDREW P. NICHOLS, Bridgeport, Conn. Filed Dec. 19, 1919.

QUICK START

No claim is made herein to the exclusive use of the words "Quick Start" apart from the mark as shown in the drawing.
Particular description of goods.—Electric Air-Heaters for Starting Internal-Combustion Engines.
Claims use since July 1, 1919.

Ser. No. 126,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE F. VON HOLT, Woodhaven, N. Y. Filed Dec. 19, 1919.



No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—Mayonnaise.
Claims use since Oct. 1, 1919.

Ser. No. 126,271. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) COMPUTING CHEESE CUTTER CO., Anderson, Ind. Filed Dec. 20, 1919.

SUGGESS

Particular description of goods.—Computing Cheese-Cutters.
Claims use since May, 1905.

Ser. No. 126,274. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Dec. 20, 1919.

Maytime

Particular description of goods.—Candy.
Claims use since Oct. 3, 1919.

Ser. No. 126,310. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Dec. 22, 1919.

DUPLI-TIZED

Particular description of goods.—Photographic Film.
Claims use since June 1, 1918.

Ser. No. 126,330. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYON & HEALY, Chicago, Ill. Filed Dec. 22, 1919.

JUNIOR

Particular description of goods.—Pedals for Musical Instruments.
Claims use since about July 1, 1919.

Ser. No. 126,398. (CLASS 37. PAPER AND STATIONERY.) THE TURNER & HARRISON PEN M'F'G CO., INC., Philadelphia, Pa. Filed Dec. 23, 1919.

METROPOLITAN

No. 3

ALUMINUM

No claim is made to the word "Aluminum" apart from the mark shown in the drawing.
Particular description of goods.—Steel Pen-Points.
Claims use since the year 1900.

Ser. No. 126,400. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED AMERICAN METALS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

PLATEX

Particular description of goods.—Babbitt Metal.
Claims use since Dec. 10, 1919.

Ser. No. 126,402. (CLASS 39. CLOTHING.) WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed Dec. 23, 1919.

Lady Wayne

Particular description of goods.—Women's Hosiery.
Claims use since Apr. 26, 1919.

Ser. No. 126,404. (CLASS 39. (CLOTHING.) WISE BROTHERS, INC., Baltimore, Md. Filed Dec. 23, 1919.

WESTERNER

Particular description of goods.—Dress, Negligée, and Work Shirts, Overalls, Jumpers, Work-Coats, Pants, Drawers, Undershirts, and Undergarments of Woven Fabrics.
Claims use since May 11, 1915.

Ser. No. 126,446. (CLASS 39. CLOTHING.) JOSEPH E. BAER, New York, N. Y. Filed Dec. 26, 1919.



Particular description of goods.—Hosiery and Children's Rompers.
Claims use since Dec. 20, 1919.

Ser. No. 126,479. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAGGIOROS & ROUSOS, Rochester, N. Y. Filed Dec. 26, 1919.

Lacconia

Consisting of the word "Lacconia."
Particular description of goods.—Olive-Oil.
Claims use since Nov. 14, 1919.

Ser. No. 126,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE MARSHALL ALLEN, New York, N. Y. Filed Dec. 27, 1919.

HERMITOSE

Particular description of goods.—Syrup Made from Corn or Corn and Cane, Used for Food Purposes.
Claims use since July 18, 1919.

Ser. No. 126,508. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHINA, JAPAN, AND SOUTH AMERICA TRADING CO., LTD., San Francisco, Calif. Filed Dec. 27, 1919.

C&J

Particular description of goods.—Canned Fruits—Namely, Canned Pears and Grapes; Canned Vegetables—Namely, Canned Tomatoes—and Canned Fish—Namely, Canned Sardines and Canned Salmon.
Claims use since May 30, 1919.

Ser. No. 126,517. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed Dec. 27, 1919.

KitchenAid

Particular description of goods.—Electrically-Driven Beating and Mixing Machines.
Claims use since Nov. 25, 1919.

Ser. No. 126,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANTECA CANNING CO., Manteca, Calif. Filed Dec. 27, 1919.

PACKRITE

Particular description of goods.—Canned Fruits—Namely, Canned Peaches and Canned Apricots; Canned Vegetables—Namely, Canned Tomatoes.
Claims use since June 1, 1919.

Ser. No. 126,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANTECA CANNING CO., Manteca, Calif. Filed Dec. 27, 1919.

CELFAST

Particular description of goods.—Canned Fruits—Namely, Canned Apricots—and Canned Vegetables—Namely, Canned Tomatoes.
Claims use since Oct. 29, 1919.

Ser. No. 126,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANTECA CANNING CO., Manteca, Calif. Filed Dec. 27, 1919.

CALAPRI

Particular description of goods.—Canned Apricots.
Claims use since June 1, 1919.

Ser. No. 126,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANTECA PACKING COMPANY, Manteca, Calif. Filed Dec. 27, 1919.

Elect

Particular description of goods.—Canned Fruits—Namely, Canned Peaches and Canned Pears, Canned Apricots, and Canned Plums.
Claims use since Sept. 7, 1918.

Ser. No. 126,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CANNERIES COMPANY OF CALIFORNIA, Oakland, Calif. Filed Dec. 27, 1919.

100% BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Peaches and Canned Apricots.
Claims use since May, 1912.

Ser. No. 126,560. (CLASS 39. CLOTHING.) DALTON HOSIERY MILLS, Dalton, Ga. Filed Dec. 29, 1919.



Particular description of goods.—Hosiery.
Claims use since July 1, 1918.

Ser. No. 126,561. (CLASS 39. CLOTHING.) DE MILO DISTRIBUTING CO., New York, N. Y. Filed Dec. 29, 1919.



Particular description of goods.—Knitted Underwear in One and Two Piece Garments.
Claims use since Nov. 28, 1919.

Ser. No. 126,581. (CLASS 17. TOBACCO PRODUCTS.) GOSSELIN TRADING CORPORATION, New York, N. Y. Filed Dec. 29, 1919.



Disclaiming all right to the use of the word "Products."
Particular description of goods.—Cigarettes, Cigars, Pipe-Tobacco, and Chewing-Tobacco.
Claims use since the 1st day of May, 1919.

Ser. No. 126,583. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARDIE BROS. CO., Pittsburgh, Pa. Filed Dec. 29, 1919.

BLIMPS

Particular description of goods.—Candies.
Claims use since Aug. 1, 1919.

Ser. No. 126,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MOUNT AIRY CANNING CO., Mount Airy, Md. Filed Dec. 29, 1919.

BORIS

Particular description of goods.—Canned Vegetables.
Claims use since September, 1916.

Ser. No. 126,595. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Dec. 29, 1919.

BOYBLUE

Particular description of goods.—Neckties, Cravats, Mufflers, and Collars.
Claims use since Dec. 14, 1919.

Ser. No. 126,598. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 29, 1919.

Boyville

Particular description of goods.—Hosiery and Knitted Underwear for Boys and Young Men; Boys' Vests, Coats, Trousers, Suits, Blouses, Overcoats, Caps, Raincoats, and Boys' Shoes Made of Leather.
Claims use since June 10, 1919.

Ser. No. 126,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed Dec. 29, 1919.



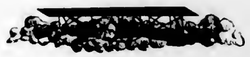
Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Mustard, Catsup, Chilli Sauce, Worcester Sauce, Corn Flakes, Rolled Oats, Oatmeal, and Flavoring Extracts for Foods, Codfish, Preserved and Dried or Evaporated Fruits, Wheat-Flour, Coffee, Tea, Pepper, Olives, Peanut-Butter, Extracts for Foods, Alimentary Paste Products, Jam, Jellies, Molasses, Table-Syrups, Gelatin, Pickles, Salad-Dressing, Pimentos, Condensed Milk, Shelled and Unshelled Nuts, Mince-Meat, Olive-Oil, and Cornmeal.
Claims use since Jan. 1, 1917.

Ser. No. 126,633. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SAMUEL H. HADLEY, New York, N. Y. Filed Dec. 30, 1919.

Movical

Particular description of goods.—Moving-Picture Films.
Claims use since Nov. 1, 1919.

Ser. No. 126,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VEE BEE CHOCOLATE CO., New York, N. Y. Filed Dec. 30, 1919.



Particular description of goods.—Chocolate.
Claims use since Oct. 15, 1919.

Ser. No. 126,664. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VEE BEE CHOCOLATE CO., New York, N. Y. Filed Dec. 30, 1919.

AVIATOR

Particular description of goods.—Chocolate.
Claims use since Oct. 15, 1919.

Ser. No. 126,735. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE MASLAND DURA-LEATHER COMPANY, Philadelphia, Pa. Filed Jan. 2, 1920.

Duraleather

Particular description of goods.—Artificial or Imitation Leather.
Claims use since January, 1916.

Ser. No. 126,755. (CLASS 12. CONSTRUCTION MATERIALS.) WISCONSIN LUMBER COMPANY, Chicago, Ill. Filed Jan. 2, 1920.

WIS

Particular description of goods.—Lumber and Timber.
Claims use since about Apr. 1, 1919.

Ser. No. 126,756. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN RENOLEO COMPANY, York, Pa. Filed Jan. 3, 1920.



Particular description of goods.—Food-Flavoring Extracts.
Claims use since about Dec. 25, 1918.

Ser. No. 126,757. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN ZINC PRODUCTS COMPANY, Greencastle, Ind. Filed Jan. 3, 1920.

OLD CHATEAU

Particular description of goods.—Zinc Roofing in the Form of Plates and Sheets.
Claims use since Nov. 30, 1919.

Ser. No. 126,770. (CLASS 39. CLOTHING.) LANGFELDER & SHRIER, New York, N. Y. Filed Jan. 3, 1920.



No claim is made to the words "Fashyn Frox" apart from the mark shown on the drawing.
Particular description of goods.—Dresses.
Claims use since the 15th day of August, 1919.

Ser. No. 126,794. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRENCH BATTERY & CARBON CO., Madison, Wis. Filed Jan. 5, 1920.



Particular description of goods.—Dry-Cell Batteries.
Claims use since Dec. 20, 1919.

Ser. No. 126,815. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed Jan. 5, 1920.

Any Hour

Particular description of goods.—Women's, Misses', and Children's Dresses.
Claims use since June 6, 1919.

Ser. No. 126,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARMS COMPANY, Newark, N. J. Filed Jan. 6, 1920.



No registration rights being claimed for the representation of a peanut apart from the mark shown in the drawing.
Particular description of goods.—Toasted Peanuts.
Claims use since November, 1919

Ser. No. 126,859. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HANDLEY PAGE LIMITED, London, England. Filed Jan. 6, 1920.



Particular description of goods.—Blank Name-Plates and Blank Instruction-Plates.
Claims use since Sept. 13, 1918.

Ser. No. 126,948. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SWIFT MFG. CO., Columbus, Ga. Filed Jan. 8, 1920.



Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 15, 1919.

Ser. No., 126,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 10, 1920.

No. 81—MILK

No claim being made to the word "Milk."
Particular description of goods.—Chocolate
Claims use since the year 1915.

Ser. No. 127,054. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) R. G. HASKINS COMPANY, Chicago, Ill. Filed Jan. 12, 1920.

SNOW MILLSTONE GRINDER

No claim being made to the exclusive right to the use of the words "Millstone Grinder" apart from the mark shown in the drawing.

Particular description of goods.—Electrically-Operated Grinders for Millstones.

Claims use since on or about the 9th day of February, A. D. 1917.

Ser. No. 127,081. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHERRY TREE MACHINE COMPANY, Cherry Tree borough, Pa. Filed Jan. 13, 1920.

THE BROWNIE

"The Brownie," with the accompanying embellishment, as shown in the accompanying drawings.

Particular description of goods.—Electrically-Driven Water-Pumps for Mine Use, Small Electrically-Driven Mine-Hauls, and Electrically-Driven Mine-Locomotives.

Claims use since Aug. 1, 1916.

Ser. No. 127,107. (CLASS 37. PAPER AND STATIONERY.) H. REEVE ANGEL & CO. INC., New York, N. Y. Filed Jan. 14, 1920.



No claim being made to the exclusive use of the words "Gray Filter Paper," "For Very Rapid Filtering," and "Made in the U. S."

Particular description of goods.—Gray Filter-Paper.

Claims use since June 20, 1919.

Ser. No. 127,251. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Jan. 17, 1920.



Particular description of goods.—Cigarettes.

Claims use since about October, 1896.

Ser. No. 127,329. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHARDSON CORPORATION, Rochester, N. Y. Filed Jan. 19, 1920.

LIBERTY RICH

Particular description of goods.—Non-Alcoholic Maltless Syrup and Beverage Made Therefrom Sold as a Soft Drink.

Claims use since Dec. 15, 1919.

Ser. No. 127,339. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE STANDARD PRODUCTS CO., Buffalo, N. Y. Filed Jan. 19, 1920.

LUXORA

Particular description of goods.—Polish for Floors, Furniture, Woodwork, and Automobile-Bodies.

Claims use since Jan. 1, 1920.

Ser. No. 127,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATMORE & SON, INC., Philadelphia, Pa. Filed Jan. 20, 1920.

ATMORE'S MAKE-A-CAKE

Particular description of goods.—A Preparation for Making Cake.

Claims use since Oct. 10, 1919.

Ser. No. 127,379. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Jan. 20, 1920.

Fisher-Maid

Particular description of goods.—Silk Piece Goods.

Claims use since about July 15, 1919.

Ser. No. 127,394. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PAWCATUCK WOOLEN MILLS, Westerly, R. I. Filed Jan. 20, 1920.

PAWCATUCK

Particular description of goods.—Woolen Piece Goods.

Claims use since Sept. 30, 1902.

Ser. No. 127,413. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEBSTER E. GRIFFITH, North Lawrence, N. Y. Filed Jan. 20, 1920.



No claim is made for exclusive use of the words "Sweetened Condensed Milk" and "Brand" apart from the mark shown.

Particular description of goods.—Condensed Milk.

Claims use since Nov., 25, 1919.

Ser. No. 127,417. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) OTTO BACHMAN, St. Louis, Mo. Filed Jan. 20, 1920



Particular description of goods.—Phonographs.

Claims use since July 1, 1919.

Ser. No. 127,421. (CLASS 39. CLOTHING.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Jan. 21, 1920.

MERITAS

Particular description of goods.—Women's, Misses', Children's, and Infants' Felt Shoes and Slippers.

Claims use since Aug. 15, 1919.

Ser. No. 127,482. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ARTHUR H. LYONS, Philadelphia, Pa. Filed Jan. 22, 1920.



Particular description of goods.—Storage Batteries and Parts Thereof.

Claims use since about Dec. 30, 1919.

Ser. No. 127,538. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BUSSMAN MANUFACTURING COMPANY, St. Louis, Mo. Filed Jan. 24, 1920.

ELECTRICITY'S SAFETY VALVE

Consists of the words "Electricity's Safety Valve."

Particular description of goods.—Electric Fuses and Cut-Outs.

Claims use since Nov. 1, 1918.

Ser. No. 127,546. (CLASS 39. CLOTHING.) MILTON HARRIS, Cincinnati, Ohio. Filed Jan. 24, 1920.

R. L. G.

Particular description of goods.—Pajamas, Union-Pajamas, Sleeping-Garments, Night-Shirts, and Lounging-Garments.

Claims use since Nov. 18, 1919.

Ser. No. 127,547. (CLASS 39. CLOTHING.) MRS. A. R. KING, INC., Philadelphia, Pa. Filed Jan. 24, 1920.

ARKINGLAST

Consisting of the word "Arkinglast."

Particular description of goods.—Leather, Rubber, and Canvas Shoes.

Claims use since About Dec. 15, 1919.

Ser. No. 127,586. (CLASS 12. CONSTRUCTION MATERIALS.) FORMBY PETRINITE CORPORATION, Jacksonville, Fla. Filed Jan. 26, 1920.

Petrinite

Particular description of goods.—Tile, Brick, and Artificial Stone.

Claims use since about November, 1918.

Ser. No. 127,684. (CLASS 39. CLOTHING.) THE FRIEDMAN-HAAS CO., Cleveland, Ohio. Filed Jan. 28, 1920.



Particular description of goods.—Dresses and Skirts.

Claims use since Sept. 1, 1918.

Ser. No. 127,840. (CLASS 39. CLOTHING.) M. E. SMITH & CO., INC., Omaha, Nebr. Filed Jan. 31, 1920.



Particular description of goods.—Women's and Children's Underwear, Night-Robes, Dresses, and Blouses.
Claims use since Oct. 29, 1919.

Ser. No. 127,907. (CLASS 39. CLOTHING.) HENRY FINE, New York, N. Y. Filed Feb. 3, 1920.



No claim is made to exclusive use of the word "Brand," apart from the mark shown in the drawing.
Particular description of goods.—Hosiery for Men, Women, and Children; Underwear — Namely, For Men, Women, and Children, Both in Shirts and Drawers—and Union-Suits.
Claims use since Jan. 2, 1915.

Ser. No. 127,919. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE IMPERIAL ELECTRIC CO., Akron, Ohio. Filed Feb. 3, 1920.

"Imperial"

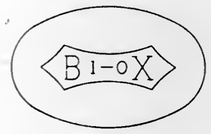
Particular description of goods.—Electrical Machinery—Namely, Electric Alternating-Current Motors, Electric Direct-Current Motors, Electric Alternating-Current Dynamos or Generators, Electric Direct-Current Dynamos or Generators.
Claims use since Jan. 1, 1908.

Ser. No. 127,944. (CLASS 39. CLOTHING.) C. W. TAVES CO., Chicago, Ill. Filed Feb. 3, 1920.



Particular description of goods.—Hosiery for Men, Women, and Children and Underwear for Men, Women, and Children.
Claims use since Oct. 1, 1919.

Ser. No. 128,121. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE ULMER LEATHER COMPANY, Norwich, Conn. Filed Feb. 7, 1920.



Particular description of goods.—Leather, Finished and Partly Finished, and Particularly Picker-Leather.
Claims use since Jan. 2, 1920.

Ser. No. 128,599. (CLASS 15. OILS AND GREASES.) JOSEPH F. GLIDDEN, Lakewood, Ohio. Filed Feb. 19, 1920.

GlidNoil

Particular description of goods.—Basic Oil for Paint and Varnish Building.
Claims use since Dec. 9, 1919.

Ser. No. 128,766. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) EASTERN BRASS AND INGOT CORPORATION, Chicago, Ill. Filed Feb. 24, 1920.

GUARANTY

Particular description of goods.—Non-Ferrous Metal Ingots.
Claims use since Jan. 15, 1920.

TRADE-MARK REGISTRATIONS GRANTED

APRIL 6, 1920.

130,024. SOAPS. THE AGRA COMPANY, Detroit, Mich. Filed October 31, 1919. Serial No. 124,380. PUBLISHED JANUARY 6, 1920.

130,025. RINGS, BROOCHES, BAR-PINS, AND LAVALLIÈRES. ABEL BROS. & CO., INC., New York, N. Y. Filed August 31, 1917. Serial No. 105,977. PUBLISHED DECEMBER 23, 1919.

130,026. SPROAT-HOOKS AND OTHER FISHHOOKS. S. ALLCOCK & CO. LIMITED, Redditch, England. Filed September 9, 1919. Serial No. 122,456. PUBLISHED JANUARY 6, 1920.

130,027. PULVERIZED OR GROUND LIMESTONE. AMERICAN LIMESTONE COMPANY, Mascot, Tenn. Filed September 15, 1919. Serial No. 122,677. PUBLISHED DECEMBER 2, 1919.

130,028. METAL BRIDGES, WOODEN TIES, METAL TELEGRAPH AND METAL TELEPHONE POLES AND PARTS, CORRUGATED-PLATE FLOORING. AMERICAN STEEL EXPORT COMPANY, New York, N. Y. Filed April 30, 1918. Serial No. 110,558. PUBLISHED NOVEMBER 4, 1919.

130,029. CIGARETTES, CIGARS, SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed September 6, 1919. Serial No. 122,376. PUBLISHED DECEMBER 9, 1919.

130,030. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO CO., New York, N. Y. Filed September 6, 1919. Serial No. 122,377. PUBLISHED DECEMBER 9, 1919.

130,031. SMOKING-TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed September 6, 1919. Serial No. 122,378. PUBLISHED DECEMBER 9, 1919.

130,032. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO CO., New York, N. Y. Filed September 6, 1919. Serial No. 122,379. PUBLISHED DECEMBER 9, 1919.

130,033. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO CO., New York, N. Y. Filed September 6, 1919. Serial No. 122,380. PUBLISHED DECEMBER 9, 1919.

130,034. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed September 8, 1919. Serial No. 122,419. PUBLISHED DECEMBER 9, 1919.

130,035. CIGARETTES, SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed September 18, 1919. Serial No. 122,805. PUBLISHED DECEMBER 9, 1919.

130,036. JAR-CAPS. THE AMERICAN PURE FOOD PROCESS CO., Baltimore, Md. Filed September 18, 1919. Serial No. 122,812. PUBLISHED DECEMBER 2, 1919.

130,037. LAUNDRY POWER WASHING-MACHINES. AUTOMATIC ELECTRIC WASHER CO., Newton, Iowa. Filed April 23, 1917. Serial No. 103,197. PUBLISHED NOVEMBER 25, 1919.

130,038. DOLLS. STELLA ADLER, St. Louis, Mo. Filed June 3, 1919. Serial No. 119,225. PUBLISHED DECEMBER 23, 1919.

130,039. GOLD ALLOY FOR DENTAL CLASPS AND THE LIKE. BAKER AND COMPANY INCORPORATED, Newark, N. J. Filed April 22, 1919. Serial No. 117,765. PUBLISHED DECEMBER 23, 1919.

130,040. WHITE GOLD FOR DENTAL SHELLS AND PLATES. BAKER AND COMPANY INCORPORATED, Newark, N. J. Filed April 22, 1919. Serial No. 117,766. PUBLISHED DECEMBER 23, 1919.

130,041. POCKET-BOOKS. THE BEACH LEATHER COMPANY, Coshocton, Ohio. Filed June 14, 1919. Serial No. 119,592. PUBLISHED DECEMBER 23, 1919.

130,042. CLOTHES-WASHING MACHINES, WITH AND WITHOUT POWER. BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo. Filed August 29, 1919. Serial No. 122,101. PUBLISHED DECEMBER 30, 1919.

130,043. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGE AND SYRUP FOR MAKING THE SAME. BRAINOL MANUFACTURING CO., Jacksonville, Fla. Filed August 25, 1919. Serial No. 121,968. PUBLISHED NOVEMBER 25, 1919.

130,044. BILLIARD AND POCKET-BILLIARD BALLS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill. Filed September 27, 1919. Serial No. 123,201. PUBLISHED JANUARY 6, 1920.

130,045. RAILWAY HAND-CARS. THE BUDA COMPANY, Chicago, Ill. Filed June 4, 1919. Serial No. 119,181. PUBLISHED OCTOBER 28, 1919.

130,046. NON-ALCOHOLIC MALTLESS BEVERAGE WHICH IS SOLD AS A SOFT DRINK. EDWARD H. CAMPBELL, Highwood, Mont. Filed July 27, 1918. Serial No. 112,357. PUBLISHED DECEMBER 17, 1918.

130,047. EYEBROW-BRUSHES. JAMES A. CAMPBELL, Chicago, Ill. Filed August 4, 1919. Serial No. 121,237. PUBLISHED DECEMBER 2, 1919.

130,048. LEATHER FOR SHOES. CASTLE KID CO., Camden, N. J., assignor to Castle Kid Co., Inc., Camden, N. J., a Corporation of Delaware. Filed May 21, 1919. Serial No. 118,749. PUBLISHED DECEMBER 2, 1919.

130,049. CERTAIN NAMED FURNITURE. CHICAGO HARDWARE FOUNDRY COMPANY, North Chicago, Ill. Filed June 6, 1919. Serial No. 119,229. PUBLISHED DECEMBER 9, 1919.

130,050. PAPER—NAMELY, COATED BOOK-STOCK, COATED BOOK-COVER STOCK, AND COATED WRITING-PAPER. CHICAGO PAPER CO., Chicago, Ill. Filed July 1, 1919. Serial No. 120,152. PUBLISHED DECEMBER 23, 1919.

130,051. COTTON, SILK, AND WOOL PIECE GOODS. CHINA, JAPAN & SOUTH AMERICA TRADING CO., LTD., New York, N. Y. Filed October 2, 1919. Serial No. 123,336. PUBLISHED DECEMBER 9, 1919.

130,052. CANNED CONDENSED MILK. CONSOLIDATED CREAMERIES, INC., New York, N. Y. Filed January 30, 1919. Serial No. 115,522. PUBLISHED MARCH 11, 1919.

130,053. ELECTROTHERAPEUTIC APPARATUS FOR GENERATING HIGH-FREQUENCY CURRENTS. CONTRA-POLE ELECTRIC COMPANY, INC., New York, N. Y.
Filed August 27, 1919. Serial No. 122,041. PUBLISHED DECEMBER 23, 1919.

130,054. CORN BROOMS. HOMER F. COOK, Hadley, Mass.
Filed June 4, 1919. Serial No. 119,185. PUBLISHED DECEMBER 9, 1919.

130,055. [WITHDRAWN.]

130,056. HAMMOCKS. JOHN CURTIN CORP., New York, N. Y.
Filed June 13, 1919. Serial No. 119,550. PUBLISHED DECEMBER 23, 1919.

130,057. COAL-BAGS. DAFOE-EUSTICE COMPANY, Detroit, Mich.
Filed June 16, 1919. Serial No. 119,642. PUBLISHED DECEMBER 30, 1919.

130,058. ALARM-CLOCKS AND OTHER CLOCKS. DE LUXE CLOCK & MFG. CO. INC., New York, N. Y.
Filed June 25, 1919. Serial No. 119,938. PUBLISHED DECEMBER 23, 1919.

130,059. PHONOGRAPHS AND RECORDS. THOMAS H. DE PEW, Canton, Ohio.
Filed October 18, 1919. Serial No. 123,923. PUBLISHED JANUARY 6, 1920.

130,060. CERTAIN NAMED TEXTILES. DERRYVALE LINEN COMPANY, New York, N. Y.
Filed September 22, 1919. Serial No. 122,975. PUBLISHED JANUARY 6, 1920.

130,061. CERTAIN NAMED TEXTILES. DERRYVALE LINEN COMPANY, New York, N. Y.
Filed September 22, 1919. Serial No. 122,976. PUBLISHED JANUARY 6, 1920.

130,062. GAS, OIL, AND COAL BURNING STOVES. THE DETROIT VAPOR STOVE COMPANY, Detroit, Mich.
Filed July 19, 1919. Serial No. 120,697. PUBLISHED NOVEMBER 18, 1919.

130,063. PHONOGRAPH-RECORDS. EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y.
Filed October 30, 1919. Serial No. 124,336. PUBLISHED JANUARY 6, 1920.

130,064. CANDIES. EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y.
Filed January 21, 1919. Serial No. 115,343. PUBLISHED JANUARY 6, 1920.

130,065. CIGARS, CIGARETTES, AND TOBACCO FOR PIPES. FREDERICK GRISWOLD GILBERT, New Haven, Conn.
Filed August 30, 1919. Serial No. 122,166. PUBLISHED JANUARY 6, 1920.

130,066. FIELD-SEEDS. HARDIN HAMILTON & LEWMAN, Louisville, Ky.
Filed July 17, 1919. Serial No. 120,645. PUBLISHED DECEMBER 2, 1919.

130,067. IMITATION LEATHER. BENJAMIN V. HARRISON CO., New York, N. Y.
Filed June 10, 1919. Serial No. 119,417. PUBLISHED DECEMBER 2, 1919.

130,068. TRUNKS. THE HARTMANN TRUNK CO., Racine, Wis.
Filed August 16, 1919. Serial No. 121,718. PUBLISHED DECEMBER 2, 1919.

130,069. GAME OF THE BOARD-AND-DISK TYPE. CHAUNCEY H. HATHEWAY, Greenwich, Conn.
Filed October 2, 1919. Serial No. 123,352. PUBLISHED DECEMBER 30, 1919.

130,070. CIGARS. HAVANA COMMERCIAL COMPANY, New York, N. Y.
Filed August 6, 1918. Serial No. 112,573. PUBLISHED DECEMBER 9, 1919.

130,071. IMITATION-PEARL NECKLACES. L. HELLER & SON, INC., Providence, R. I.
Filed June 20, 1919. Serial No. 119,802. PUBLISHED JANUARY 6, 1920.

130,072. CIGARETTES. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed February 6, 1919. Serial No. 115,660. PUBLISHED DECEMBER 16, 1919.

130,073. SOAP. HOWARD BROS. CHEMICAL CO., Buffalo, N. Y.
Filed September 26, 1919. Serial No. 123,163. PUBLISHED JANUARY 6, 1920.

130,074. ABSORBENT COTTON, SURGICAL GAUZE, AND GAUZE BANDAGES. HYGIENIC FIBRE COMPANY, Versailles, Conn., and New York, N. Y.
Filed August 21, 1919. Serial No. 121,862. PUBLISHED DECEMBER 23, 1919.

130,075. ROPE, CORD, TWINE, AND BINDER-TWINE. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed August 13, 1919. Serial No. 121,627. PUBLISHED JANUARY 6, 1920.

130,076. FRESH VEGETABLES. HENRY KAELIN & SON, Brooklyn, N. Y.; Baltimore, Md., and Habana, Cuba.
Filed September 20, 1919. Serial No. 122,943. PUBLISHED JANUARY 6, 1920.

130,077. SET AND UNSET PEARLS AND IMITATION PEARLS. W. B. KELLOGG CO., INC., New York, N. Y.
Filed August 9, 1918. Serial No. 112,648. PUBLISHED JANUARY 6, 1920.

130,078. SNAP-FASTENERS AND BUTTONS SUITABLE FOR WEARING-APPAREL. E. G. KHOURI & BRO., New York, N. Y.
Filed August 30, 1917. Serial No. 105,964. PUBLISHED NOVEMBER 12, 1918.

130,079. TABLE-POTTERY. KNOWLES, TAYLOR & KNOWLES COMPANY, East Liverpool, Ohio.
Filed August 9, 1919. Serial No. 121,475. PUBLISHED DECEMBER 30, 1919.

130,080. POISON FOODS. FRANK TSURUKICHI KOBAYASHI, Los Angeles, Calif.
Filed August 2, 1919. Serial No. 121,221. PUBLISHED NOVEMBER 18, 1919.

130,081. WASHBOARDS. KRENNING-SCHLAPP GROCER COMPANY, St. Louis, Mo.
Filed September 15, 1919. Serial No. 122,701. PUBLISHED DECEMBER 9, 1919.

130,082. LAMP-CHIMNEYS. KRENNING-SCHLAPP GROCER COMPANY, St. Louis, Mo.
Filed September 15, 1919. Serial No. 122,708. PUBLISHED DECEMBER 2, 1919.

130,083. PLUG-TOBACCO. LARUS & BROTHER COMPANY, Richmond, Va.
Filed June 13, 1919. Serial No. 119,561. PUBLISHED JANUARY 6, 1920.

130,084. WHEAT-FLOUR. JOHN F. LENNON, Providence, R. I.
Filed February 26, 1918. Serial No. 109,226. PUBLISHED MARCH 4, 1919.

130,085. CIGARS. VICTOR LEVOR, Attica, Ind.
Filed August 21, 1919. Serial No. 121,866. PUBLISHED DECEMBER 16, 1919.

130,086. CATAMENIAL BANDAGE. GEORGE C. LEVY, New York, N. Y.
Filed July 31, 1919. Serial No. 121,149. PUBLISHED JANUARY 6, 1920.

130,087. SMOKING AND CHEWING TOBACCO AND CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed August 28, 1919. Serial No. 122,080. PUBLISHED DECEMBER 9, 1919.

130,088. THREAD AND YARN. H. E. LOCKE & COMPANY, INC., Boston, Mass.
Filed July 21, 1919. Serial No. 120,753. PUBLISHED NOVEMBER 18, 1919.

130,089. DOLLS. JOHN M. LOCKWOOD, Jr., West Hoboken, N. J.
Filed September 9, 1919. Serial No. 122,489. PUBLISHED JANUARY 6, 1920.

130,090. CLEANING COMPOUND. JOHN J. MEYER, New York, N. Y.
Filed April 14, 1919. Serial No. 117,463. PUBLISHED JANUARY 6, 1920.

130,091. PHONOGRAPHS AND PHONOGRAPH-CABINETS. MILWAUKEE TALKING MACHINE MANUFACTURING CO., Milwaukee, Wis.
Filed July 30, 1919. Serial No. 121,118. PUBLISHED JANUARY 6, 1920.

130,092. TALKING-MACHINES. THE MODERNOLA CO., Somerset, Pa.
Filed November 8, 1918. Serial No. 114,102. PUBLISHED DECEMBER 23, 1919.

130,093. MILITARY INSIGNIA. MOUNT ROYAL CORPORATION, New York, N. Y.
Filed September 10, 1918. Serial No. 113,109. PUBLISHED DECEMBER 2, 1919.

130,094. COTTON-WASTE. NORTHERN WASTE CO., Boston, Mass.
Filed September 5, 1919. Serial No. 122,364. PUBLISHED DECEMBER 2, 1919.

130,095. GOLD AND PLATINUM ALLOY METAL FOR DENTAL INLAYS AND BRIDGEWORK. M. F. PATTERSON DENTAL SUPPLY COMPANY, Chicago, Ill., and St. Paul, Minn.
Filed August 18, 1919. Serial No. 121,778. PUBLISHED DECEMBER 23, 1919.

130,096. PHONOGRAPH-CABINETS. PIANISSIMO PLAYER ACTION CO., Camden, N. J., and Philadelphia, Pa.
Filed August 16, 1919. Serial No. 121,725. PUBLISHED DECEMBER 30, 1919.

130,097. SANITARY BELTS, SANITARY APRONS, AND GUM-TISSUE FOR SURGICAL PURPOSES. THE OMO MFG. CO., Middletown, Conn.
Filed June 4, 1919. Serial No. 119,204. PUBLISHED JANUARY 6, 1920.

130,098. SANITARY BELTS, SANITARY APRONS, AND GUM-TISSUE FOR SURGICAL PURPOSES. THE OMO MFG. CO., Middletown, Conn.
Filed June 4, 1919. Serial No. 119,205. PUBLISHED JANUARY 6, 1920.

130,099. MECHANICAL TOYS — NAMELY, MOTOR-DRIVEN BOATS. SAMUEL ORKIN COMPANY, Cambridge, Mass.
Filed August 12, 1919. Serial No. 121,600. PUBLISHED DECEMBER 23, 1919.

130,100. LILY-BULBS. THEODORE OUTERBRIDGE, Sunnylands, Bermuda.
Filed June 2, 1919. Serial No. 119,130. PUBLISHED OCTOBER 28, 1919.

130,101. BOX PARLOR GAME. IRVIN-SMITH COMPANY, Chicago, Ill.
Filed October 10, 1919. Serial No. 123,647. PUBLISHED DECEMBER 30, 1919.

130,102. METAL HORSE AND MULE-SHOES. PHOENIX HORSE SHOE CO., Chicago, Ill.
Filed July 1, 1919. Serial No. 120,177. PUBLISHED DECEMBER 9, 1919.

130,103. BROOMS. PIONEER BROOM COMPANY, INC., Amsterdam, N. Y.
Filed January 9, 1919. Serial No. 115,074. PUBLISHED DECEMBER 9, 1919.

130,104. CIGARETTES, CIGARS, SMOKING-TOBACCO, AND CHEWING-TOBACCO. POLAND EXPORT CORPORATION, New York, N. Y.
Filed June 30, 1919. Serial No. 120,128. PUBLISHED DECEMBER 30, 1919.

130,105. NECK-CHAINS, WATCH-CHAINS, AND SWIVELS FOR SUCH CHAINS. THE M. S. RODENBERG CO., Providence, R. I.
Filed July 18, 1919. Serial No. 120,676. PUBLISHED JANUARY 6, 1920.

130,106. PACKAGE-BINDERS AND PARTS THEREOF, COMPRISING A RIGID FASTENER AND A FLEXIBLE TIE. EMIL A. RUDIN, Toronto, Ontario, Canada.
Filed July 10, 1919. Serial No. 120,431. PUBLISHED JANUARY 6, 1920.

130,107. SPONGES AND CHAMOIS. SCHROEDER & TREMAYNE, St. Louis, Mo.
Filed June 2, 1919. Serial No. 119,137. PUBLISHED NOVEMBER 11, 1919.

130,108. SOLE-LEATHER. SEARS, ROEBUCK & COMPANY, Chicago, Ill.
Filed August 9, 1919. Serial No. 121,487. PUBLISHED DECEMBER 2, 1919.

130,109. CIGARS, CIGARETTES, AND SMOKING AND CHEWING TOBACCO. R. J. SEIDENBERG CO., Buffalo, N. Y.
Filed April 5, 1919. Serial No. 117,198. PUBLISHED JANUARY 6, 1920.

130,110. SHAVING-BRUSHES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed March 15, 1919. Serial No. 116,612. PUBLISHED DECEMBER 9, 1919.

130,111. CERTAIN NAMED TOILET PREPARATIONS. A. SIMONSON, New York, N. Y.
Filed September 16, 1919. Serial No. 122,792. PUBLISHED JANUARY 13, 1920.

130,112. PAPER BAGS. JOHN SINGLE, Syracuse, N. Y.
Filed July 2, 1919. Serial No. 120,224. PUBLISHED NOVEMBER 4, 1919.

130,113. CANDIES. SOUTHERN CANDY COMPANY, Tampa, Fla.
Filed June 18, 1919. Serial No. 119,750. PUBLISHED DECEMBER 2, 1919.

130,114. AUTOMOBILES, AUTOMOBILE-BODIES, MOTOR-TRUCKS, TRUCK-TRAILERS. SOUTHERN MOTOR MANUFACTURING ASSOCIATION, LTD., Houston, Tex.
Filed July 25, 1919. Serial No. 120,931. PUBLISHED DECEMBER 2, 1919.

130,115. TRACTORS. SOUTHERN MOTOR MANUFACTURING ASSOCIATION, LTD., Houston, Tex.
Filed October 24, 1919. Serial No. 124,152. PUBLISHED JANUARY 20, 1920.

130,116. CHEMICAL CLOSETS. STANDARD STEEL CORP., Milwaukee, Wis.
Filed April 29, 1919. Serial No. 117,999. PUBLISHED JANUARY 6, 1920.

130,117. BUCKLES. THE STANLEY WORKS, New Britain, Conn.
Filed January 8, 1919. Serial No. 115,055. PUBLISHED DECEMBER 9, 1919.

130,118. WARNING-SIGNALS OF THE TYPE EMBODYING A MECHANICALLY-VIBRATED DIAPHRAGM. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed October 2, 1916. Serial No. 98,375. PUBLISHED JANUARY 6, 1920.

130,119. PIANOS, PIANO-PLAYERS, AND ORGANS. STORY & CLARK PIANO COMPANY, Chicago, Ill.
Filed November 6, 1919. Serial No. 124,629. PUBLISHED JANUARY 6, 1920.

130,120. PIANOS, PIANO-PLAYERS, AND ORGANS. STORY & CLARK PIANO COMPANY, Chicago, Ill.
Filed November 6, 1919. Serial No. 124,630. PUBLISHED JANUARY 6, 1920.

130,121. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,052. PUBLISHED DECEMBER 2, 1919.

130,122. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,053. PUBLISHED DECEMBER 2, 1919.

130,123. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,054. PUBLISHED DECEMBER 2, 1919.

130,124. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,056. PUBLISHED DECEMBER 2, 1919.

130,125. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,057. PUBLISHED DECEMBER 2, 1919.

130,126. MATCHES. STROMBORG EXPORT AND IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,059. PUBLISHED DECEMBER 2, 1919.

130,127. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,060. PUBLISHED DECEMBER 2, 1919.

130,128. MATCHES. STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik Aktiebolag, Jönköping, Sweden.
Filed August 27, 1919. Serial No. 122,061. PUBLISHED DECEMBER 2, 1919.

130,129. CONFECTIONERY—NAMELY, SUCKERS. TRI-CITY SALES COMPANY, Cincinnati, Ohio.
Filed October 20, 1919. Serial No. 124,024. PUBLISHED DECEMBER 30, 1919.

130,130. ROPE MADE FROM FIBER. TUBBS CORDAGE COMPANY, San Francisco, Calif.
Filed August 5, 1918. Serial No. 112,543. PUBLISHED DECEMBER 30, 1919.

130,131. PAINT AND VARNISH BRUSHES. UNITED BRUSH MANUFACTORIES, New York, N. Y.
Filed April 19, 1919. Serial No. 117,629. PUBLISHED DECEMBER 9, 1919.

130,132. DOLLS AND TOY ANIMALS. U. S. TOY & NOVELTY CO., New York, N. Y.
Filed July 25, 1919. Serial No. 120,944. PUBLISHED NOVEMBER 18, 1919.

130,133. LAUNDRY-WASHING MACHINES. VOSS BROS. MFG. CO., Davenport, Iowa.
Filed September 11, 1919. Serial No. 122,580. PUBLISHED DECEMBER 9, 1919.

130,134. PORTABLE CIGARETTE-MAKERS AND CIGARETTE-TUBES. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,086. PUBLISHED DECEMBER 23, 1919.

130,135. SOAP. THE WASHER MAID COMPANY, Chicago, Ill.
Filed October 29, 1919. Serial No. 124,324. PUBLISHED JANUARY 6, 1920.

130,136. CIGARS AND CIGARETTES. WILLIAM WERNER, New York, N. Y.
Filed March 29, 1919. Serial No. 117,028. PUBLISHED DECEMBER 16, 1919.

130,137. BOND-PAPER FOR WRITING AND PRINTING PURPOSES. WESTERN NEWSPAPER UNION, Omaha, Nebr.
Filed July 16, 1919. Serial No. 120,629. PUBLISHED DECEMBER 2, 1919.

130,138. METAL, WICKER, LEATHER, LEATHERETTE, UPHOLSTERED, VENTILATED LOUNGES AND VEHICLE-SEATS. FRANK ORMOND WHITE, Belleville, Ill.
Filed July 24, 1919. Serial No. 120,896. PUBLISHED DECEMBER 23, 1919.

130,139. MANILA ROPE. WHITLOCK CORDAGE CO., New York, N. Y.
Filed July 3, 1919. Serial No. 120,269. PUBLISHED DECEMBER 9, 1919.

130,140. PAPER SHOT-SHELLS. WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Filed August 15, 1919. Serial No. 121,701. PUBLISHED DECEMBER 2, 1919.

130,141. WATERPROOFING-OILS FOR LEATHER. ARTHUR W. ZIESENISS, Rolla, Mo.
Filed August 22, 1919. Serial No. 121,916. PUBLISHED JANUARY 6, 1920.

130,142. GAME KNOWN AS A TALKING-BOARD. WILLIAM FULD, Baltimore, Md.
Filed March 25, 1919. Serial No. 116,881. PUBLISHED JANUARY 13, 1920.

TRADE-MARK REGISTRATIONS CANCELED.

128,187. CERTAIN NAMED GLASSWARE. TIFFANY FURNACES, New York, N. Y.
Registered December 23, 1919. Canceled March 20, 1920.

LABELS

REGISTERED APRIL 6, 1920.

21,766.—*Title:* "CHERRY-TANG." (For Cherry-Syrup.) C. A. CONNOR ICE CREAM COMPANY, Owosso, Mich. Filed December 8, 1919.

21,767.—*Title:* "GRAPE-TANG." (For Grape-Syrup.) C. A. CONNOR ICE CREAM COMPANY, Owosso, Mich. Filed December 8, 1919.

21,768.—*Title:* "ORANGE-TANG." (For Orange-Syrup.) C. A. CONNOR ICE CREAM COMPANY, Owosso, Mich. Filed December 8, 1919.

21,769.—*Title:* "LA TOSCA SLEEPERS." (For Children's Sleeping-Garments.) LA TOSCA KNITTING CO., Utica, N. Y. Filed September 26, 1919.

21,770.—*Title:* "LA TOSCA SLEEPERS." (For Children's Sleeping-Garments.) LA TOSCA KNITTING CO., Utica, N. Y. Filed September 26, 1919.

21,771.—*Title:* "WORKMANSHIP. QUALITY. SERVICE." (For Boots and Shoes.) LYNCHBURG SHOE COMPANY, Lynchburg, Va. Filed February 19, 1920.

21,772.—*Title:* "MOHAWK KNIT CAPS." (For Knitted Caps.) MOHAWK VALLEY CAP FACTORY, Utica, N. Y. Filed September 26, 1919.

21,773.—*Title:* "MOHAWK SWEATERS." (For Sweaters.) MOHAWK VALLEY CAP FACTORY, Utica, N. Y. Filed September 26, 1919.

21,774.—*Title:* "CANNED FOOD—THE MIRACLE ON YOUR TABLE." (For Canned Goods.) NATIONAL CANNERS ASSOCIATION, Washington, D. C. Filed January 31, 1920.

21,775.—*Title:* "LATAPEP." (For a Medicinal Tonic.) E. M. WELCH, Cleveland, Ohio. Filed January 7, 1920.

21,776.—*Title:* "WRIGHT'S MOUSE KILLER, NOT A POISON." (For a Non-Poisonous Powder for Killing Rats and Mice.) RICHARD B. WRIGHT, East Islip, N. Y. Filed November 4, 1919.

PRINTS

REGISTERED APRIL 6, 1920.

5,239.—*Title:* "CANNED FOOD—THE MIRACLE ON YOUR TABLE." (For Canned Foods.) NATIONAL CANNERS ASSOCIATION, Washington, D. C. Filed January 31, 1920.

. 34.
orated.
35 to 52.
Bethke took
e only picture
tin autographed
states that the
185

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

BETHKE *v.* SCANNELL.

Decided October 17, 1918.

1. PATENTS — INTERFERENCE — APPLICATION FOR APPARATUS CONSTRUCTIVE REDUCTION TO PRACTICE OF PROCESS.

An application for an apparatus clearly disclosing a process is a constructive reduction to practice of the process.

2. SAME—SAME—EVIDENCE OF PRIORITY.

Evidence considered and *Held* that B. was the first to conceive the invention in issue and the first to reduce it to practice; also, that he was diligent just prior to S.'s entry into the field and up to the time when he constructively reduced it to practice.

APPEAL from Examiners-in-Chief.

PHOTOGRAPHIC-PLATE HOLDER.

Messrs. Morsell, Keeney & French for Bethke.

Mr. Charles S. Wilson for Scannell.

NEWTON, *Commissioner:*

This is an appeal from the decision of the Examiners-in-Chief affirming the action of the Examiner of Interferences awarding priority to Bethke, the junior party, on the following issue:

The herein described method of placing an inscription upon a sensitive medium, which consists in forming the desired inscription in light obstructing characters upon the surface of a medium provided with an actinic ray emitting coating, and placing said inscription bearing medium adjacent said sensitive medium in position to print the inscription upon said sensitive medium by the action of the emitted rays.

The invention covered by this issue, roughly speaking, is the production of one's autograph on a negative in light lines on a dark surface instead of dark lines on a light surface, as heretofore, so that when the negative is used for printing the final picture will be autographed in dark lines on a light surface, instead of being in light lines on a dark surface. In order to do this, these applicants have painted one side of a glass with luminous paint and left the other side rough and suitable to be marked with a pencil. It appears that luminous paint has the property of acting on a sensitive sheet by reason of the luminous rays that emanate from it, and the luminous paint if exposed to the sunlight will become recharged, as it were, with power to give off these luminous rays, and when periodically exposed to the sunlight will last indefinitely. It is not expensive, so the process in controversy seems to be a practical one.

Bethke filed his application included in this interference December 11, 1916, but it has been held that he disclosed the invention in an application filed May 10, 1915, wherein he claimed the apparatus for carrying out the involved process instead of the process covered by the issue.

Scannell filed March 22, 1915. Bethke is therefore the junior party and must establish his dates by a preponderance of evidence.

Scannell took testimony, but acknowledges (p. 8, Scannell's brief) that he should be restricted to his filing date for conception, disclosure, and reduction to practice.

There is no question but that Bethke has proven conception and disclosure as far back as April, 1914. This case turns, first, on whether Bethke has proven reduction to practice prior to March 22, 1915, Scannell's filing date, or, if not, whether he was diligent from just prior to March 22, 1915, Scannell's filing date, to the filing of his (Bethke's) apparatus case May 10, 1915.

Much has been said about the efficacy of the filing of the apparatus case May 10, 1915, as a constructive reduction to practice for the process of the issue. There is no doubt but that the invention was disclosed in the May 10, 1915, case and that it might have been claimed therein. This being so, there is no doubt but that the May 10, 1915, case is a constructive reduction to practice. There is no reason whatever why it should not be. Indeed, the claim of the issue is somewhat anomalous in that while it is in the form of a process claim it is about as much an article or apparatus claim as it is a method claim, since "an actinic ray emitting coating" is more of a *thing* than it is a process.

The Examiner of Interferences has held that Bethke did not prove reduction to practice prior to his filing date. The Examiners-in-Chief have held that he did prove reduction to practice as of January 1, 1915, and for reasons given by them I concur in their decision holding that Bethke has proven reduction to practice in January, 1915. Indeed, the proof is satisfactory to me that Bethke reduced to practice in July or August, 1914.

Bethke's testimony concerning Exhibits 7 and 11 is quite complete. (Bethke's record, Qs. 90, p. 34, *et seq.*,) but of course he must be corroborated. Pressentin testifies (Bethke's record, Qs. 35 to 52, pp. 154 and 155) that with Exhibit 7 Bethke took his picture, (Exhibit 10,) and it was the only picture that he ever took of him. Pressentin autographed this negative July 1, 1914. He states that the

negative was taken with Exhibit 7, that it was in the same condition then as it is now, and that the writing on Exhibit 10 was his own handwriting. Putting these facts together and taking into consideration the circumstances surrounding Pressentin when he was giving his deposition, it is equivalent to saying that the invention of the issue was successfully operated in July, 1914.

Schroeder says (Bethke's record, pp. 112 and 113) in corroboration that Bethke in the beginning of August, 1914, wrote on the rough side of the glass which was painted with luminous paint on the other side and inserted it in the brass container of Exhibit 11. He then went in his dark room, pressed it up against a strip of film, pulled out the cover of this container so that the glass was in contact with the film that exposed it by means of this luminous paint, then slid back this cover and developed the film. This is the process of the issue. Keeping in mind the exhibits that Schroeder was talking about, it is held that this is a fair statement of reduction to practice, especially when taken in connection with the depositions of Bethke, Pressentin, and Strassman. It is true that Strassman says (Q. 8) that this happened the last two weeks in August, but since this testimony was taken practically three years afterward the discrepancy in time does not discredit the witness.

These witnesses, it is true, all seemed to be friends of Bethke's, but Scannell does not contend that they were untruthful. They appear unskilled as to what comes within the technical rules of reduction to practice, and the depositions must be read in connection with the exhibits they were talking about. There is nothing to indicate that the results they were describing were obtained in any other way than by the process of the issue. Indeed, the indications are all to the contrary, and the results obtained and disclosed in the exhibits were certainly reductions to practice.

It is held that the finding of the Examiners-in-Chief and the Examiner of Interferences, for reasons fully pointed out by both lower tribunals and which will not be further discussed here, was correct, that from just prior to the 22d of March, 1915, Scannell's filing date, to May 10, 1915, Bethke's filing date, Bethke was not lacking in diligence in perfecting his invention.

It is therefore held that there was no error in the decision of the Examiners-in-Chief, and their decision awarding priority to Bethke is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

SCANNELL *v.* BETHKE.

Decided February 2, 1920.

PATENTS—INTERFERENCE—PRIORITY.

Evidence considered and *Held* that priority of invention was properly awarded by the lower tribunals to Bethke.

Mr. C. E. Riordan and *Mr. W. S. Hodges* for the appellant.

Mr. A. L. Morsell and *Mr. C. D. Davis* for the appellee.

(Affirming Commissioner's decision, 273 O. G., 185.)

PER CURIAM:

This is an interference proceeding which solely turns upon issues of fact. After a careful review of the testimony and the concurring decisions of the tribunals of the Patent Office, we are convinced that no error was committed. The testimony is fully and fairly reviewed in the decision of the Commissioner and a further review here would serve no good purpose.

The decision of the Commissioner of Patents is affirmed, and the clerk is directed to certify these proceedings as required by law.

U. S. Circuit Court of Appeals—Second Circuit.

ÆOLIAN CO. *v.* SCHUBERT PIANO CO.

Decided June 13, 1919.

[261 Fed. Rep., 178.]

1. PATENTS—MUSIC-SHEET GUIDE—VALID AND INFRINGED.
   The Thomson patent, No. 841,356, for a music-sheet-guiding device for mechanical piano and organ players, *Held* to cover a patentable improvement on prior devices and entitled to a fair construction and a reasonable range of equivalents; also *Held* infringed.
2. SAME—SUIT FOR INFRINGEMENT NOT BARRED BY LACHES.
   A delay of four or five years after defendant's device was placed on the market *Held* not such laches as barred a suit for infringement.

   Ward, circuit judge, dissenting.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by the Æolian Company against the Schubert Piano Company. Decree for defendant, and complainant appeals. Reversed.

Mr. J. Edgar Bull and *Mr. C. A. Weed* for the appellant.

Mr. Louis W. Southgate, Mr. George D. Beattys, and *Mr. E. W. Scherr, Jr.,* for the appellee.

Before WARD, ROGERS, and MANTON, Circuit Judges.

MANTON, *Cir. J.:*

(1) In order that there may be a clear understanding of the patent in suit and its contribution to the art, it is well to consider music-sheet-guiding devices and the musical instruments, such as the organ or piano, which play automatically and upon which it is used. An automatic piano or organ is constructed by having a series of little motors incorporated therein, each of which is connected to operate one particular action or sound-producing mechanism. One of its features is a tracker-bar. This is a smooth piece of metal having a series of little apertures in transverse line. Each aperture is connected to control one of the motors. A perforated music-sheet is drawn longitudinally over the tracker. The music-sheet consists of a long strip of paper having a series of perforations cut therein corresponding in arrangement and spacing to the notes of the music composition which is to be rendered. Which notes are to be played is determined by the lateral positions of the perforations in the music-sheets, and the length of the various perforations determines the time the particular note shall be held. The music-sheet roll consists of a spool upon which the perforated music-sheet is wound up. These music-rolls are sold and treated as compositions, and can be played interchangeably in the instrument. The end of the perforated music-sheet is connected to a winding-roll arranged below the tracker-bar, which roll is rotated by a motor. As a perforated note-sheet is drawn longitudinally forward over the smooth face of the apertured tracker, the perforations in the music-sheet will uncover, in sequence, the corresponding apertures in the tracker; thus the notes of the instrument will be played in the order of the cutting of the perforations in the music-sheet and the musical composition will be rendered. After playing the perforated music-sheets, the sheet is drawn longitudinally backward and rewound on the spool.

The music-sheet of standard arrangement is eleven and one-fourth inches wide and is so arranged as to accommodate eighty-eight apertures in line in the tracker, and therefore eighty-eight notes of the piano may be played. The construction provides metallic bridges between the apertures in the tracker-bar of about one-fiftieth of an inch. In organs of the Æolian type, such as the inventor Thomson purchased, as hereinafter stated, a music-sheet of ten and one-eighth inches wide is employed and the tracker has 116 apertures. It would be recognized at once that, if the perforated music-sheet during its longitudinal forward travel should slip sidewise or deflect longitudinally a greater distance than one of the minute bridges between two adjacent apertures in the tracker, a given perforation in the music-sheet would uncover, not only its proper aperture in the tracker, but the one adjacent thereto, and thus discord would be produced. The need, therefore, to keep the music-sheet during its longitudinal travel forward in correct lateral position on the tracker required an appliance to instantly correct any deflection, so that the continued forward longitudinal travel of the music-sheet would always be in correct lateral position on the tracker. The purpose of the appellant's invention, a music-sheet-guiding device, is to cause the perforated music-sheet to travel longitudinally forward over the apertured tracker, always in exact sidewise register and to correct any sidewise deflection thereof before discord can be produced. The guiding device is used only when the music-sheet is moving forward, or, in other words, while the piano is playing. When the music-sheet is being rewound around the spool or moving longitudinally backward, the guiding device is thrown out of operation; the backward movement is at high speed. A device to accomplish these objects must necessarily be a very delicate and nicely-operated piece of mechanism, for it works on a moving strip of perforated paper, which it must keep it correct lateral position within the dimensions of a bridge in minute measurement.

The pioneer inventor of the music-sheet-guiding device was O'Connor. He had granted to him Patent No. 789,053, on May 2, 1905, and two reissues thereof, No. 13,283, August 15, 1911, and No. 13,398, April 2, 1912. They have been the subject of litigation and were before this court in *Autopiano Co.* v. *Amphion Piano Co.*, (186 Fed., 159; 108 C. C. A., 291;) *Autopiano Co.* v. *American Co.*, (222 Fed., 276; 138 C. C. A., 38,) and *Autopiano Co.* v. *Claviola Co.*, (234 Fed., 314; 148 C. C. A., 216.) Instruments of this character, known in the art, work pneumatically. The pneumatic operation has taken the form of, first, the pressure system, which employs air-pressure above that of the atmosphere; and the other, a suction system, which employs air-exhaust below that of the atmosphere. These systems, known equivalents, are both used as the manufacturer desires. The suction system is employed on player-pianos, and the pressure system is commonly employed on organs. The O'Connor construction, referred to, works on the suction plan. Since O'Connor was the pioneer inventor, we will refer to his construction.

It is the claim of the appellant that the Thomson patent is an improvement on the O'Connor. O'Connor adjustably secured a block to the right-hand part of the tracker, which block had an opening called a control or guiding opening, and which block was adjusted so that the control-opening would come just under the right-hand surface of the music-sheet. This control-opening connected by a tube to control a valve arranged to connect and disconnect the suction-chest through another tube, with an actuating pneumatic arranged on the right-hand end of the tracker, and connecting to the right-hand end of the shaft of the music-sheet roll. While the music-sheet is traveling longitudinally, if it should wander to the left, this right-hand control-opening is uncovered, the valve opens the suction-chest connecting to the actuating-pneumatic, which then is deflected to pull the music-sheet roll to the right, and hence adjust the traveling music-sheet to the right, to remedy its deflection to the left. So as to provide operation in the other direction, there was adjustably mounted another block on the left-hand end of the tracker, which had a control-opening, and which block was adjusted so that the control-opening would come just under the left-hand surface of the music-sheet. This connected by tube to control another valve, which was arranged to connect and disconnect the suction-chest through another tube, with another actuating-pneumatic arranged on the left-hand end of the tracker and connected to the left-hand end of the shaft of the music-sheet roll, so that if the perforated music-sheet, during its travel, should wander to the right, the left-hand control-opening would be uncovered, the left-hand valve open the suction-chest connected to the left-hand actuating-pneumatic, which would then be deflected to pull the music-sheet to the left, and hence adjust the traveling music-sheet to the left to remedy its deflection to the right.

In this way, the surface of the sheet was employed to cover and uncover control-openings. In the construction of the O'Connor device, the mechanism is duplicated, and as one mechanism is employed for adjustment to the right and another mechanism for adjustment to the left, the sheet-music expands and contracts with changes in the temperature and humidity, requiring adjustment of the blocks, and these adjustments are difficult, as they have to be relative to each other to account for the expansion and contraction, and also have to be made relative to the apertures in the tracker to keep the music-sheets normally and in proper relation thereto. Then, too, there was some variation in the width of the music-sheet during its entire length, and there was danger that the device might not work properly, as its operation depends upon the operation of the two blocks to a given width of music-sheet. In other words, the O'Connor device provided a double-surface method of control by means of the two guiding devices, one on each side. When Thomson, the inventor of the patent in suit, at one time purchased an organ for his home, and found that the O'Connor device did not track properly the music-sheet over the tracker-bar, and did not serve the purpose of his automatic-playing organ, he set about to invent a device which would. He has succeeded, and in our opinion he has invented an improvement over O'Connor, and has contributed to the art.

The claims in suit are as follows:

1. A music sheet guiding device comprising means normally operative to move the sheet laterally in one direction (the spring) and means including a part bearing against an edge of the sheet movable laterally thereby for governing said sheet-moving means (lever valve, and actuating pneumatic).

2. A music sheet guiding device comprising pneumatically actuated means (actuating pneumatic and spring) for moving the sheet laterally, a movable part (lever) against which the sheet bears when laterally deflected from its path, and connections between said movable part and said moving means for controlling the latter said connections including a pneumatic valve moved by said part.

3. A music sheet guiding device comprising means normally operative to move the sheet laterally in one direction (the spring), a movable part (lever) against which the sheet bears when moved by said means from its path, and connections between said movable part and said sheet-moving means (valve and actuating pneumatic) for controlling the latter.

4. A music sheet guiding device comprising means including an actuating pneumatic and suitable connections (levers, links, etc.) for moving the sheet laterally, and means including a movable part (lever) against which the sheet bears when deflected from its path and a valve connected to said movable part, and pneumatic connections (tubes and connections) between said valve and said actuating pneumatic for governing the latter.

The inventor states:

My invention relates to music sheet guiding devices such as are used in mechanical instrument players and mechanical players for musical instruments. Such players are ordinarily controlled by a perforated music sheet moving over the tracker.

The object of the present invention is to guide the sheet laterally during its longitudinal movement, so as to insure the exact registration of the perforations in the sheet with the corresponding ducts in the tracker, or, more broadly speaking, to insure such relative movement of the sheet and the tracker transversely of the path of the sheet as will secure their proper alinement. It is of course obvious that any considerable lateral deviation of the music sheet would interfere with or destroy the proper rendition of the music.

The patent describes the working of the invention of the device on the pressure system, but also points out that the invention can be employed just as well on the suction system. It is the control of the sheet by guiding it from one side alone, that is claimed to be the improvement. The inventor claims only that he has invented a "certain new and useful improvement in music sheet guiding devices." The first element of construction consists of a compression-spring placed in the bearing, which supports the left-hand plunger for the left-hand end of the music-roll. This spring is under compression and is normally operative to move the music-sheet in one direction. Pushing on the left-hand side of the music-sheet roll, it always tends to push the music-sheet to the right so that when there is no pneumatic pressure in the instrument, the music-sheet roll and the music-sheet are pushed to the extreme position to the right. Likewise, there is a compression-spring on the left-hand axis of the winding-roll. There is an actuating-pneumatic having connections to the shaft, which carries the right-hand end of the music-sheet roll. The left-hand wall of the actuating-pneumatic is movable, and the connections of the music-sheet roll extend from the movable wall. This actuating-pneumatic has a light pull-spring tending to deflate the same, which spring thus makes the pneumatic double-acting; that is, when pressure is admitted to the pneumatic, it expands to the left and pulls on the spring, and when the pressure is discontinued, and the pneumatic connects to the atmosphere, the spring pulls the pneumatic to the right and deflates the same. The spring thus acts in conjunction with the compression-spring at the left of the music-sheet roll, and acts to move the music-sheet to the right.

The actuating pneumatic is made of a size so that, when it is called into operation for making an adjustment, its operative force is greater than the action of the compression-spring. There is a normally-operative force in springs to push the music-sheet roll and hence the music-sheet to the right, which normally-operative force is opposed by a superior force; that is, the inflation of the actuating-pneumatic. The music-sheet moves in space, being normally impelled to the right by the action of the spring, and being pushed to the left by the actuating-pneumatic when called into operation. The device then provides a movable member bearing against the edge of the music-sheet and carrying a pneumatic valve for governing the operation of the actuating-pneumatic. This member bearing against the edge of the music-sheet comprises a pivoted lever having a shoe, against which the left-hand edge of the music-sheet rubs. This lever carries a pneumatic valve at its inner end, and a light spring is employed to pull the pneumatic toward its seat. Pneumatic connections are arranged between the valve and the actuating-pneumatic. These parts are so combined that, when the music-sheet is too far to the right, the pneumatic valve is pulled toward its seat, and the operative pneumatic pressure is connected to the actuating-pneumatic. As a result of this combination, the actuating-pneumatic operates the music-sheet to the left until the valve is open sufficiently to stop this action of the pneumatic. This provides that the music-sheet roll is always impelled to the right by the action of the

normally-operative spring, and pushed to the left against the spring by the operation of the actuating-pneumatic, and this later operation is governed by the left-hand edge of the music-sheet rubbing on the moving part and operating the pneumatic valve.

By this combination the operation is governed by one edge of the traveling music-sheet rubbing on the movable part carrying the pneumatic valve. Therefore, if the music-sheet during its longitudinal forward travel should slip to the right, the left-hand edge of the music-sheet would move away from the movable part, and the pneumatic valve would be pulled toward its seat by the light spring pulling on the valve bringing the actuating-pneumatic into operation, so that it will expand to push the music-sheet to the left to its correct position, and thus cure its deflection to the right; and, on the other hand, if the music-sheet during this longitudinal forward travel should slip to the left, the left-hand edge of the music-sheet, pushing on the movable part, will hold the valve in a wide-open position, and will cut the actuating-pneumatic out of operation, so that the spring will push the music-sheet to the right, back to its normal position. This provides the proper guiding during its longitudinal forward travel.

By this combination and operation, an improvement over O'Connor's double-surface method of control was established. It avoids the duplication of parts, and there is no lost motion in connections as the spring or springs are pushed. Since it operates entirely from one edge of the music-sheet, it is only necessary to set one pivoted lever in proper position relatively to the tracker-bar. If the music-sheet varies in width, the operation will not be materially interfered with. It operated by contact of the traveling edge of the music-sheet with a movable part. A very small lateral movement of the music-sheet will move said part, whereas the movement of the music-sheet required in O'Connor's device must be enough to cover one of the control-openings a considerable distance.

That it has been an improvement over the O'Connor device is best exemplified by the results obtained. The witnesses say it worked successfully and satisfactorily, and there were some thirty thousand sold beginning June, 1911. It should be given a fair construction and a reasonable range of equivalents. (*Dowagiac Mfg. Co.* v. *Minn.-Moline Plow Co.*, 118 Fed., 136; 55 C. C. A., 86; *Nat. Hollow Brake-Beam Co.* v. *Interchangeable B. Co.*, 106 Fed., 693; 45 C. C. A., 544.)

The appellee's guiding device, constructed under the Dickinson patent, No. 1,194,725, works on the suction system, instead of on the pressure system. Thomson, however, in his patent, says this is immaterial, and points out that one familiar with the art may readily change to the suction system. In appellee's device, the first element consists of a compression-spring placed in the bearing which supports the left-hand plunger or shaft for the left-hand end of the music-sheet roll. The spring is under compression and is normally operative to move the sheet in one direction. This compression-spring, pushing on the left-hand shaft of the music-sheet roll, always tends to push the music-sheet to the right. When there is no suction in the instrument, the sheet-roll and the music-sheet are pushed to an extreme position to the right. This is the same action as the spring in the Thomson device.

In appellee's device, the next operative element is the actuating-pneumatic having connections to the shaft which carries the right-hand end of the music-sheet roll. It has three walls, the two outer walls of which are movable, and are connected by a link to move as one part, and the connections to the music-sheet roll extend from the right-hand wall. There are two bellows or chambers in appellee's actuating-pneumatic. The bellows which operates to adjust the music-sheet roll is the left-hand bellows. The appellee's actuating-pneumatic operating by suction, when this adjustment is made, will move to the right; hence any connections from the actuating-pneumatic to the shaft of the music-sheet; a chain-motion device, a cam, is employed. The actuating-pneumatic moving to the right by suction, and having chain-motion connections to the right-hand end of the music-sheet roll, is the same mechanically as Thomson's actuating-pneumatic expanding to the left under pressure and connected by direct connections to the right-hand end of the music-roll. It makes the pneumatic double-acting, so that, when the operating-section is disconnected from, the left-hand bellows of the pneumatic, the right-hand bellows moves the parts to the left to inflate the left-hand bellows; the right-hand bellows thus acts in conjunction with the compression-spring at the left of the music-sheet roll, and acts to draw the music-sheet to the right. This pneumatic is of such a size, when called into operation for making an adjustment, its operative force is greater than the action of the compression-spring to the left of the music-sheet roll. When the actuating-pneumatic thus operates to make an adjustment, it pushes the music-sheet roll and stores energy in the spring. Therefore, there is normally an operative force, the spring normally operative to push the music-sheet roll to the right, which normally-operative force is opposed by superior force, the deflection of the left-hand bellows of the actuating-pneumatic, the normally-operative force and the actuating-pneumatic force opposed to each other.

When the music-sheet floats in space, being normally impelled to the right by the action of the spring, it is pushed to the left by the actuating-pneumatic when called into operation. The appellee's device then arranges a movable part bearing against the edge of the music-sheet and carrying the pneumatic valve for governing the operation of the actuating-pneumatic. The part bearing against the edge of the music-sheet and movable laterally thereby comprises a pivoted lever having a surface against which the left-hand edge of the music-sheet rubs. This lever carries the pneumatic valve at its inner end, and the light spring is arranged to pull the pneumatic valve toward its seat. Pneumatic actions are arranged between the valve and the actuat-

ing-pneumatic. The parts are combined, so that, when the music-sheet is too far to the right, the pneumatic valve is pulled toward its seat and the operative pneumatic suction is connected to the left-hand bellows of the actuating-pneumatic; thus the same result is obtained as provided for in the Thomson patent.

In appellee's apparatus, only one relay is employed in the connection between the pneumatic and other actuating parts, while the Thomson employs two relays in the connection between his pneumatic valve and the actuating-pneumatic. A relay is a mechanism employed when desired in pneumatic connections to amplify the action, so that a small gust of air is amplified up into a larger gust. The relays are added parts increasing the efficiency of the operation. There is a slight oscillating or wavering of the music-sheet when it is traveling in correct position on the tracker. It is about one two-hundredths of an inch, as testified to; it is variously estimated as from one two-hundred-and-twenty-fifth to one two-hundred-and-fiftieth of an inch. It is so slight as to be immaterial, because it is much less than the bridge between the apertures and the tracker, which is usually one-fiftieth of an inch. Whether or not the relays are used is merely a matter of manufacture. The appellant used the Thomson device with and without them. With the use of relays, a quicker action is obtained, and the cost of the relay is about from fifty cents to one dollar.

We do not think a proper comparison between two devices involves the degree of trembling or wavering of the music-sheet when traveling correctly in normal position. The proper comparison is between the devices when each functions to adjust the traveling music-sheet to correct a sidewise deflection. To attempt to distinguish the devices as the appellee does, by calling the operation of the appellant's device that of the law of the pendulum, and that of the appellee's the law of the bleeding-port, based upon the immaterial trembling balance in Thomson's device, we do not think sound. The test is whether the appellee's apparatus employs the combinations which Thomson has invented.

(2) We think that claims 1, 2, 3, and 4 have been infringed, and that the parts specified in these claims are identical in appellee's devices, and operate the same way to produce the same result. We are of the opinion that Thomson was the first to grasp the idea that edge control could be used for music-sheets, and that such control could be made from the one edge only. His invention is not anticipated by the O'Connor patent, but is an improvement thereon, and is entitled to take its place in the art under all rules of fair construction. We are of the opinion that the appellant is not guilty of laches, and may maintain this suit as late as May, 1916, at a period of some four or five years after the appellee placed its device complained of on the market. There is no rule of law that requires a patentee to sue infringers upon all the patents he owns at the same time, or that deprives him of equitable relief if he delays his suit for the period specified here. (*Ide* v. *Trorlicht*, 115 Fed., 137; 53 C. C. A., 341; *Edison, etc., Co.* v. *Sawyer, etc., Co.*, 53 Fed., 592; 3 C. C. A., 605.)

Judgment reversed.

WARD, *Cir. J.*, (dissenting:)

In *Autopiano Co.* v. *American Player Piano Co.* (222 Fed., 276; 138 C. C. A., 38) we held the O'Connor patent, second reissue, 13,398, to be entitled to a most liberal range of equivalents as a pioneer. I think edge control is therefore to be regarded as equivalent to surface control. Persons who had acquired intervening rights while the first reissue was in force, of whom the defendant is one, are entitled to immunity for this reason.

In *Autopiano Co.* v. *Claviola Co.* (234 Fed., 314; 148 C. C. A., 216) we held the O'Connor patent good against edge-control devices operated pneumatically by O'Connor's means.

The present suit is upon Thomson, 841,356, which is a method of edge control operated, in my opinion, by the same means as O'Connor, and therefore an infringement. But Thomson is an improvement and patentable as such, so that, if the defendant uses an equivalent device to his, it infringes.

I think the district judge was right in holding that the defendant's device is different. Thomson uses a spring to shift the music-sheet roll to the right, and pneumatic bellows to shift it to the left. There is a constant struggle between these two forces: the one alternately overcoming the other and so causing a continual oscillation of the music-sheet as it travels longitudinally. The defendant's device, on the other hand, shifts the music-sheet roll in both directions by the pneumatic bellows, and there is no oscillation of the sheet while it travels longitudinally. True, there is a spring at the left end of the music-roll, but it is not intended to function in the shifting, and if it actually does so its coöperation is negligible. Such a spring is used on all piano-players, however operated, for the mere purpose of enabling the music-sheet roll to be put in and taken out of the structure.

Therefore I think the defendant does not infringe, and the decree should be affirmed.

Disclaimer.

1,269,363.—*Georgene Averill*, New York, N. Y. Doll. Patent dated June 11, 1918. Disclaimer filed January 13, 1920, by the patentee.

"Enters this disclaimer—

"As to certain parts of claims 3, 4, and 5 in said specification, as follows, to wit:

"To the structure set forth in claims 3, 4 and 5, respectively, of said Letters Patent, as described by the word 'firmly' in each of said claims, except as the said word shall be used to include or designate a structure in which 'the filling 22 is yieldable as well as the casing' and 'the head 8 can be moved in any direction, including a rotary movement in a horizontal plane,' as set forth in lines 92 to 95 inclusive of page 1, of the description in said specification."

Patents Nos. 1,336,407 to 1,337,180.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 273—No. 2. TUESDAY, APRIL 13, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF APRIL 13, 1920	191
DRAWINGS	191
NOTICE	191
ASSISTANT EXAMINERS WANTED	191
APPLICATION UNDER EXAMINATION	192
PATENTS GRANTED	193
REISSUES	340
DESIGNS	341
TRADE-MARKS—REGISTRATION APPLIED FOR	353
TRADE-MARK REGISTRATIONS GRANTED	401
TRADE-MARK REGISTRATIONS RENEWED	404
LABELS	405
PRINTS	406
DECISIONS OF THE U. S. COURTS—	
Dickinson *v.* Swinehart	407
The R. M. Hollingshead Co. *v.* Area Manufacturing Co	408
Duncan *v.* Shelly	409
In re Roberts	410
ADJUDICATED PATENTS	412

Issue of April 13, 1920.

Patents	774—No.	1,336,407 to No.	1,337,180, inclusive.
Designs	61—No.	54,823 to No.	54,883, inclusive.
Trade-Marks	109—No.	130,143 to No.	130,251, inclusive.
Labels	28—No.	21,777 to No.	21,804, inclusive.
Prints	5—No.	5,240 to No.	5,244, inclusive.
Reissues	4—No.	14,837 to No.	14,840, inclusive.
Total	981		

Drawings.

RULE 38.

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals, (preferably the latter.)

RULE 52—EXTRACT.

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short broken lines with the parts to which they refer. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

NOTICE.

AMENDMENT TO PATENT LAWS—PAYMENT OF FEES.

Department of the Interior,
United States Patent Office,
Washington, D. C., March 11, 1920.

Attention is directed to the following excerpt from the deficiency appropriation act, approved March 6, 1920.

R. F. WHITEHEAD,
Acting Commissioner.

Hereafter all patent fees shall be paid to the Commissioner of Patents, who shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury shall direct, and said Commissioner is authorized to pay back any sum or sums of money paid to him by any person by mistake or in excess of the fee required by law.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for May 5-7 and June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business April 3, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Dec. 27	Jan. 12	397
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 2	Oct. 8	919
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 29	Nov. 19	401
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Aug. 20	Feb. 11	936
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Jan. 28	287
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 2	Jan. 30	496
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 15	Jan. 21	747
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 3	Feb. 19	334
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 14	Jan. 2	385
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Sept. 23	Dec. 1	1,002
151	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Nov. 6	Nov. 12	609
222	12. Machine Elements	Aug. 4	Jan. 22	1,219
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making Metal Working; Needle and Pin Making; Turning.	Sept. 10	Feb. 14	1,063
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Oct. 2	Jan. 19	489
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 9	Jan. 12	984
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 25	Nov. 1	857
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 28	Feb. 27	256
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 20	Dec. 1	824
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Oct. 13	611
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 6	Dec. 8	659
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 9	Jan. 30	399
249	22. Aeronautics; Firearms; Ordnance	Dec. 26	Feb. 3	244
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 27	Jan. 30	560
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 16	Jan. 6	549
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 24	Feb. 17	192
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	July 9	Aug. 21	727
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Jan. 12	Feb. 6	515
225	28. Internal-Combustion Engines	Dec. 9	Jan. 2	590
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 10	Feb. 10	638
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 13	959
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 12	Sept. 29	930
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 1	Jan. 5	1,083
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 23	Dec. 20	453
301	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Mar. 3	Mar. 9	157
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Feb. 17	Mar. 4	469
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 8	Dec. 24	1,047
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Oct. 11	Oct. 21	1,212
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Jan. 20	537
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	July 14	Oct. 2	973
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 22	Jan. 29	651
125	41. Resilient Tires and Wheels	Sept. 19	Jan. 19	850
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Oct. 9	Oct. 24	903
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 3	Jan. 5	667
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 28	Jan. 29	295
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Oct. 28	Jan. 6	766
382	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Sept. 3	Oct. 31	725

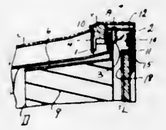
Oldest new case, July 9; oldest amended, Aug. 21.
Total number of applications awaiting action 30,566

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 16	Feb. 1	2,675
	Designs	Oct. 6	Jan. 5	1,153
	Labels and Prints	Jan. 2	Jan. 17	756

PATENTS

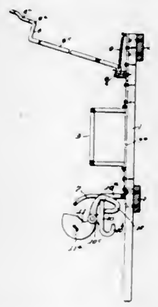
GRANTED APRIL 13, 1920.

1,336,407. HEADLIGHT. FRANK P. AHMAN, Norfolk, Va. Filed May 28, 1919. Serial No. 300,350. 2 Claims. (Cl. 240—41.)



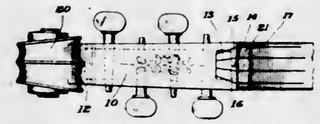
1. The combination with a headlight comprising a casing having an open end, outstanding hook members carried by said end, a reflector insertible within the casing, a deflector insertible within the reflector, said deflector being provided with openings through which the hook members are directed, of a lens supporting member having an inner reinforcing member, a plurality of fingers projecting inwardly from one portion of said reinforcing member, the other portion of shid reinforcing member including spaced wings, and a lens securing member having its outer marginal edge disposed between said wings and the lens supporting member.

1,336,408. HAT AND GARMENT HOLDER. RICHARD L. ASH, Philadelphia, Pa., assignor of one-third to Lewis Gibson and one-third to Herbert Murray, Philadelphia, Pa. Filed Aug. 13, 1919. Serial No. 317,123. 2 Claims. (Cl. 45—13.)



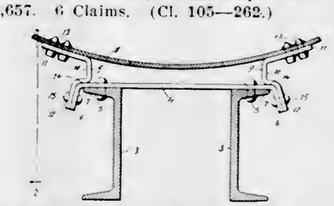
1. A garment-supporting holder, comprising in combination a supporting frame, a bracket fixed to said frame and having a depending member terminating in an upturned hook adapted to hang a garment thereon and a transversely disposed member operating as an engaging projection, a depending lever pivoted at its upper end on said frame and having a slotted free end adapted to be brought thereby into engagement with said bracket projection, a locking member centrally pivoted on said fixed bracket and provided with a down-turned hook portion adapted to be rotatably brought into coincidence with said upturned garment-supporting hook, and having another part adapted, by the same rotative movement, to be brought into engagement with said bracket projection when said slotted lever is moved into locking position, and means to detachably lock together said last mentioned engaging elements.

1,336,409. PEG-BOX COVER FOR VIOLINS AND THE LIKE. FRANK M. ASHLEY, Brooklyn, N. Y. Filed Apr. 24, 1914. Serial No. 834,053. 6 Claims. (Cl. 84—278.)



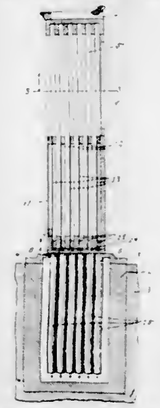
1. A cover for the peg box of violins and the like having a recess at one end adapted to fit around the forepart and sides of the scroll of the instrument, and a slot at the other end through which the strings may pass.

1,336,410. TANK-ANCHOR FOR TANK-CARS. WILLIAM K. AUCHINCLOSS, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 5, 1919. Serial No. 294,657. 6 Claims. (Cl. 105—262.)



1. In an anchor for the tank of a railway tank-car, spaced center sills having upper flanges, a cover-plate connected with said flanges and having lateral extensions projecting outwardly and downwardly therefrom, a tank and anchoring means therefor secured to the tank and lapping said cover plate extensions.

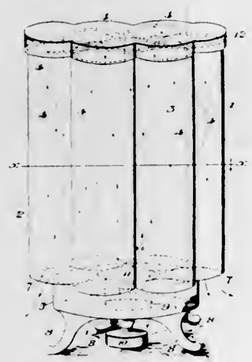
1,336,411. AUTOMATIC DISPLAY-SIGN. JOHN B. BARNETT, Kansas City, Mo., assignor of one-half to R. N. Tutt, Kansas City, Mo. Filed May 14, 1918. Serial No. 234,402. 3 Claims. (Cl. 40—30.)



1. In an automatic alternating changeable display sign, a frame, a plurality of guide ways in said frame, a plu-

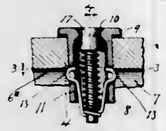
rality of plates for bearing signs mounted in said guideways, an air cylinder for each of said sign plates, connections connecting each of said cylinders with the corresponding sign plate, an intermittingly rotary valve arranged to alternately and successively admit air to said cylinders and allow the air to exhaust therefrom.

1,336,412. HEATING-STOVE. PAULINE WIMER BANTA, Tampa, Fla. Filed Nov. 24, 1919. Serial No. 340,263. 5 Claims. (Cl. 126—96.)



1. In a heating stove, an upper air chamber, a lower air chamber, a central tube communicating with both of said air chambers and a series of tubes communicating with the said upper and lower air chambers, said tubes mounted on the lower air chamber and having a portion of their lower ends closed by said chamber and the remaining portion being open to the atmosphere.
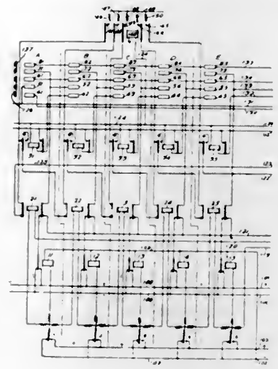
1,336,413. LUBRICATING DEVICE. RICHARD A. BATES, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 4, 1919. Serial No. 335,690. 7 Claims. (Cl. 64—26.)



7. In a lubricating device a hollow flanged plug provided with seats intermediate its ends, a locking yoke having curved end portions projecting through and being held in said seats and a spring seat formed by said yoke intermediate its ends, a valve having a stem movable in said spring seat and a spring on said spring seat adapted to seat said valve.

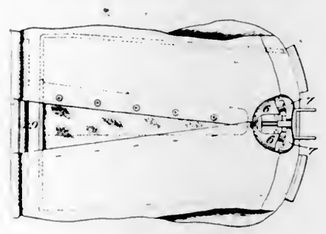
1,336,414. TELEGRAPHY. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,812. 11 Claims. (Cl. 178—63.)

1. The method of telegraphic transmission which consists in grounding a line conductor in substitution of consecutive impulses of like polarity and in varying the strength of telegraphic impulses in accordance with a



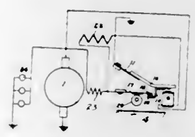
predetermined scale of electrical characteristics controlled by the duration of the preceding grounded interval.

1,336,415. BOSOM-PRESS. GOTTLOB BINDER, Rochester, N. Y., assignor to American Laundry Machinery Co., Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 17, 1915. Serial No. 14,910. 2 Claims. (Cl. 68—9.)



1. A machine for ironing open front shirts with the front portions spread in diverging relation, said machine including relatively movable ironing chest and board members, said board member increasing in width from the neck band end toward the tail end and at the neck band end having the proper width to fit within the upper portion of a small size shirt without distorting its front portions, and an adjustable neckband support located adjacent the neck band end of said board member.

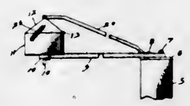
1,336,416. REGULATOR FOR ELECTRIC GENERATORS. HENRY E. BORGER, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed May 8, 1918. Serial No. 233,362. 11 Claims. (Cl. 171—229.)



7. In a regulator for an electric generator, the combination of a cam operated by the shaft of said generator, a resistance in circuit with the field winding of the generator, a pair of contacts normally shunting said resistance

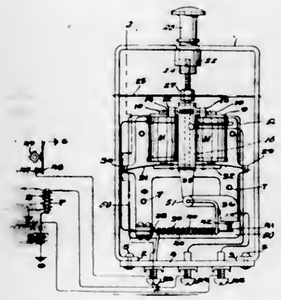
and away from the influence of said cam and means responsive to a predetermined voltage of the generator for moving said contacts so they may be opened and closed by the rotation of said cam.

1,336,417. RURAL MAIL-BOX. PATRICK VINCENT BRAZILL, Paquette Station, Ontario, Canada. Filed July 25, 1917. Serial No. 182,771. 2 Claims. (Cl. 232—40.)



1. The combination with a supporting plate, a main arm mounted on a vertical pivot at one edge of the plate to swing only in a horizontal plane, and a secondary arm loosely pivoted at the other edge thereof to swing and also to rise and fall; of a box rigidly carried by the free end of the main arm, and a lid hinged to the box and pivoted to the other end of the secondary arm.

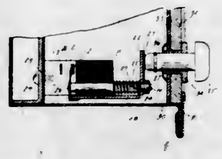
1,336,418. CIRCUIT-CONTROLLING MECHANISM. IVAR W. BROEGGER, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Jan. 26, 1917. Serial No. 144,639. 14 Claims. (Cl. 200—122.)



1. In an electrical circuit, a switch having two contacts one of which is carried by a lever, a manually operable non-indicating rod movable in one direction to move said lever and close said contacts, flexible means to hold said contacts closed, a thermostat operated by excessive current in said circuit, means brought into service by said thermostat to move said flexible means and thereby cause an automatic opening of said contacts, said rod also being movable in the other direction independently of said lever to effect an opening of said contacts, and means for restoring said rod to its non-indicating position, as described.

1,336,419. ELECTRICAL-MEASURING-INSTRUMENT SWITCH. IVAR W. BROEGGER, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Dec. 31, 1917. Serial No. 209,789. 6 Claims. (Cl. 200—159.)

1. In a switch for electrical measuring instruments, the combination of a block of insulating material having a slot therein, contact strips mounted one above the other on said block and extending across said slot, a movable contact member located in said slot and normally in contact with the upper of said strips, a member adapted to support said movable contact member and means for receiving an actuating force coacting with said support member to move it and the movable member into engage-

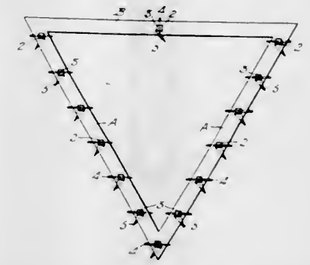


ment with the bottom strip, and means to return the contact member and its support to their normal position when the actuating force is removed.

1,336,420. PROCESS FOR HARDENING ALUMINUM. HACHIG M. BULFCKIAN, Cleveland, Ohio. Filed May 31, 1919. Serial No. 301,083. 2 Claims. (Cl. 75—58.)

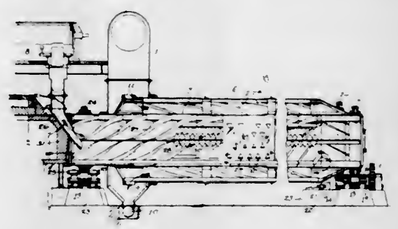
1. A process for hardening aluminum consisting in adding gum-glutin, oyster shell and gum arabic to molten pure aluminum.

1,336,421. CULTIVATOR. JOHN WILLIAM BURKE, Hamilton, Ontario, Canada. Filed May 5, 1919. Serial No. 294,761. 1 Claim. (Cl. 55—128.)



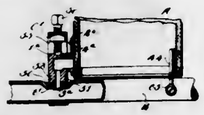
In a device of the class described, the combination with a V shaped frame including a rear cross member, of a plurality of share shaped teeth arranged in said frame so that each subsequent tooth turns a furrow adjacent to that turned by the preceding tooth, one of said teeth being situated at the apex of the V, and a tooth situated in said cross member and positioned to follow in the path of the tooth at said apex and shared in the opposite direction to the same, as and for the purpose set forth.

1,336,422. DRYING APPARATUS. FRANK V. BURMAN, Marine City, Mich. Filed June 25, 1919. Serial No. 306,580. 3 Claims. (Cl. 34—5.)



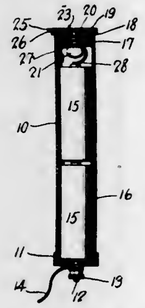
3. In a drying apparatus, a rotatable drum, a feed chute extending into one end of the drum, a source of heat arranged to discharge into said end of the drum, and a heat protecting wall behind the chute.

1,336,423. MEANS FOR CONNECTING HYDROCARBON-BURNERS TO SUPPLY-PIPES. LEE S. CHADWICK, East Cleveland, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 26, 1916. Serial No. 93,583. 13 Claims. (Cl. 285—108.)



1. The combination of a supply pipe having an aperture, a burner having a supply connection that is provided with an extension that is adapted to be received by said aperture, and a clamp permanently secured to the pipe, said clamp acting to bind the supply connection and the supply pipe together.

1,336,424. TESTING DEVICE. MAXWELL WM. DAVIS, West Haven, Conn. Filed Apr. 14, 1919. Serial No. 290,058. 2 Claims. (Cl. 175—183.)



1. A device of the class described comprising a casing, binding post at one end of the casing, an insulated contact plate at the opposite end thereof, a plurality of dry atteries arranged end to end within the casing, and paced from the walls thereof, an electric light bulb carried by said plate, an annulus surrounding said bulb, and spring finger carried by the annulus and engaging one of said batteries to hold the latter fixed relatively within the casing.

1,336,425. METHOD OF MAKING MAGNESIUM CHLORID. HERBERT H. DOW and EDWIN O. BARSTOW, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 25, 1918. Serial No. 241,759. 6 Claims. (Cl. 23—13.)

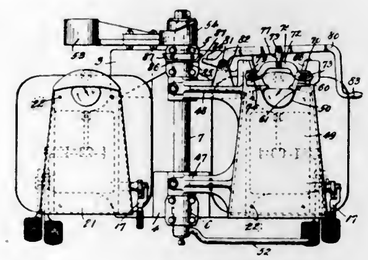
3. In a method of making magnesium chlorid from a brine also containing calcium chlorid; the step which consists in treating such brine with sodium sulfite, whereby such calcium chlorid is precipitated as calcium sulfite.

1,336,426. GAGE. DAVID E. FREDERICKSEN, Kenosha, Wis. Filed June 14, 1919. Serial No. 304,161. 1 Claim. (Cl. 33—194.)



A gage of the class described comprising a spacing member, a transverse bar disposed at each end of the member, each of the bars being adapted to engage one side of a door frame, a fixed clamp jaw at one end of each of the transverse bars, a movable clamp jaw on the other end of each of said transverse bars, said movable clamp jaws being slidable toward and away from the fixed clamp jaw, said clamp jaws of each transverse bar being adapted to engage the opposite edges of the adjacent door frame side, and means for securing the movable clamp jaws to their respective transverse bars whereby to rigidly clamp the latter to the door frame sides.

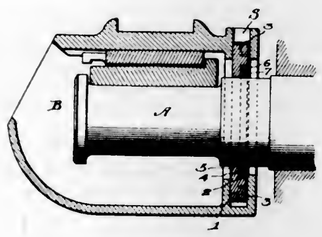
1,336,427. IRONING-MACHINE. LADBROOK H. FREEMAN, Cleveland, Ohio, assignor, by mesne assignments, to The First Trust & Savings Company, trustee, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 26, 1915. Serial No. 23,868. 10 Claims. (Cl. 68—9.)



1. An ironing machine, comprising an ironing board increasing in width from the neck-band end toward the tail end, the neck-band end of said board being substantially tangent to the neck-band of a coat shirt thereon and thereby forming a folding line in the yoke of said shirt, means within the neck-band end of the board for supporting a neck-band, and means cooperatively related with said board for ironing the bosom and the portions of the yoke lying at the sides of the neck-band.

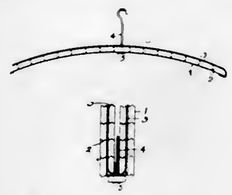
6. In an ironing press, a frame, an ironing board, an adjustable neck band former mounted upon said board, an ironing chest, back corner ironing devices carried by said chest, means for manipulating the same, and means for manipulating the chest.

1,336,428. OIL AND DUST GUARD FOR JOURNAL-BOXES. JOHN GOTHNER, Superior, Wis., assignor of one-fifth to Ernest W. Cook, one-fifth to William R. Hallem, one-fifth to John Haney, and one-fifth to Solon L. Perrin, Superior, Wis. Filed Jan. 31, 1919. Serial No. 274,208. 6 Claims. (Cl. 64—22.)



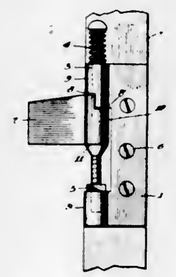
1. A dust guard unit for journal boxes including a wear body having an axle clearance opening, combined reinforcing and guideway forming means carried by opposite sides of the body, and a follower guard plate also having an axle clearance opening and held in sliding relation to the wear body by said combined reinforcing and guideway forming means.

1,336,429. GARMENT-HANGER. HARRY M. GOULD, Portland, Me. Filed Feb. 10, 1919, Serial No. 275,994. Renewed Sept. 19, 1919. Serial No. 324,992. 1 Claim. (Cl. 211—13.)



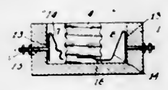
A folding garment hanger including a series of blocks abutted together to form a narrow continuous bar, the abutting faces of said blocks having interlocking projections and recesses, a strip of flexible material secured to the upper face of said bar to pivotally connect said blocks and a suspending hook secured to one of the central blocks.

1,336,430. WINDOW-SASH ATTACHMENT. GEORGE H. GUSTAFSON, Joliet, Ill. Filed Apr. 19, 1917. Serial No. 163,162. 2 Claims. (Cl. 292—63.)



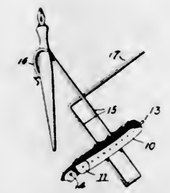
1. A window sash attachment, comprising, a metal plate fastened to the inner edge of a side piece of an upper sash of a window and inside of the window pane, one side of said plate being cut away in the center leaving projections above and below; an upper and lower tube, each formed by turning said projections inward on said plate, the upper of said tubes having a shoulder at its lower end; a metal stay-plate, turned on one of its sides and forming an integral tube, said tube having a shoulder on its upper end to engage the shoulder of said upper tube; a bolt with a capped end movable through all of said tubes; a retracting spiral spring coiled on the projecting end of said bolt; a flange on said bolt below the middle one of said tubes; a nut adapted to be screwed over the threaded end of said bolt; and means for fastening the device to a window sash, whereby said attachment can be held in locked position.

1,336,431. COMBINATION SOCKET AND ADAPTER. WILLIAM HALTER, Cleveland, Ohio. Filed Mar. 9, 1918. Serial No. 221,428. 5 Claims. (Cl. 173—338.)



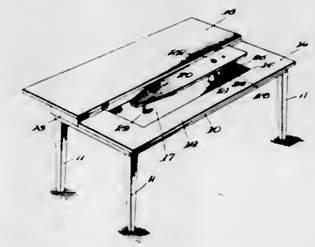
3. A socket of the character described, comprising a body portion of insulating material having a cavity provided with a non-circular wall and an interrupted cylindrical wall, and contacts in said cavity.

1,336,432. DEVICE FOR MECHANICALLY AIDING THE HAND IN WRITING. WILLIAM JAMES HENRY, Akron, Ohio. Filed Apr. 17, 1919. Serial No. 290,754. 3 Claims. (Cl. 120—107.)



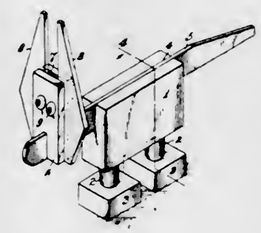
1. A device of the class described comprising a wrist encircling element including a securing strap and a band connected at spaced points to the said strap, a pen engaging element and a hand guide, one end of which supports the said pen engaging element and the opposite end of which extends between the band and strap of the wrist encircling element, and is frictionally held thereby in longitudinally adjustable relation thereto.

1,336,433. COMBINED TABLE AND IRONING-BOARD. GEORGE W. HUDSON, Lancaster, Ohio. Filed May 17, 1917. Serial No. 169,310. Renewed Aug. 13, 1919. Serial No. 317,347. 3 Claims. (Cl. 68—10.)



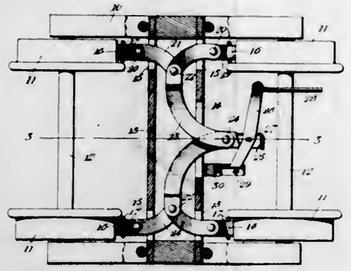
1. A device of the character described including a stand, a post mounted upon the stand, an ironing board seated upon the upper extremity of said post, means extending through the board and the post and connecting the board with the stand for rotatable adjustment with respect to the post, and means bearing between the inner extremity of the ironing board and the stand for holding the ironing board at adjustment.

1,336,434. TOY. RICHARD E. HUMBERT, Montclair, N. J. Filed Mar. 17, 1919. Serial No. 283,118. 5 Claims. (Cl. 46—35.)



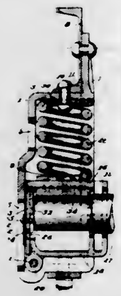
1. An improved toy, comprising a generally rectangular wooden body having a longitudinal slot therein, a flat neck engaging said slot and a slotted rectangular head straddling and supported by said neck, substantially as set forth.

1,336,435. BRAKE. JOHN DAVID CLARK IVEY, Fitzgerald, Ga. Filed June 16, 1919. Serial No. 304,506. 4 Claims. (Cl. 188—53.)



1. In a car brake, the combination with a truck having a hollow cross beam between its wheel carrying axles, provided with a central opening at one side and with opposing side openings between the truck wheels, brake blocks suspended in the truck adjacent to and between the wheels at each side, toggle levers pivotally connected at their outer ends to the brake blocks and extending inwardly through the openings at the ends of the cross beam, the inner ends of the toggle levers at each side of the truck being lapped, brake actuating levers to the inner ends of which the said inner ends of the toggle levers are pivotally connected, said actuating levers being curved through the cross beam and externally from the central opening thereof, a connecting piece to which the outer ends of the actuating levers are pivoted, a brake applying lever having a pivotal connection at one end with the truck and having an intermediate fulcrum in connection with said connecting piece, and a brake applying rod having connection with the opposite end of the last mentioned lever, all for the purpose described.

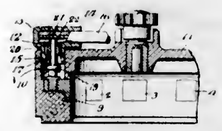
1,336,436. RAILWAY-CAR. ROBERT W. JOY, Brooklyn, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 5, 1919. Serial No. 294,663. 15 Claims. (Cl. 105—224.)



8. The combination of a pedestal, a journal box, a lid for said journal box adapted to receive the end thrust of an axle and means on said pedestal holding said lid in position against the end thrust of the axle.

1,336,437. ELECTRIC-CABLE-CONNECTING MEANS. JOHN M. KIEFER, Jr., Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed June 21, 1918. Serial No. 241,153. 7 Claims. (Cl. 173—382.)

1. An electric cable connecting means including in combination, a block of insulating material having one or more contact segments set therein, a bore in said block extending from its exterior face to said contact segment, a stiletto pin fastened to said contact segment and extending outwardly in the bore beyond the face of said block, a holder having two projections substantially at right angles to each other with interconnecting borings, one of



said borings adapted to receive an electric cable, the other boring having means mounted therein to engage said stiletto pin intermediate its ends when the holder projection carrying said means is inserted into the bore in said block whereby said pin passes through said engaging means into the electric cable for the purpose described.

1,336,438. LEAFLESS PHOTOGRAPH-ALBUM. PAUL HERMAN KRAETSCH, Astoria, Oreg. Filed Apr. 1, 1919. Serial No. 286,651. 2 Claims. (Cl. 129—1.)



2. An album of the character specified, comprising a bottom having a fixed side wall and short retaining end walls or flanges extending from the ends of the side wall, and a cover hinged to the side wall at one edge and having at the other edge a front wall hinged to the cover to fold upon the same, and means for limiting the unfolding movement of said wall to a position substantially perpendicular to the cover.

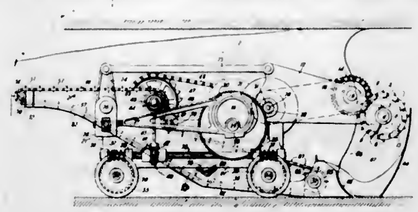
1,336,439. TANK-CAR. ALLEN E. OSTRANDER, Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Original application filed Nov. 5, 1914, Serial No. 870,413. Patent No. 1,199,816, dated Oct. 3, 1916. Divided and this application filed Mar. 29, 1916. Serial No. 87,523. 20 Claims. (Cl. 220—1.)



1. In combination in an insulated tank, an inner tank shell, insulation about the exterior thereof and an outer tank shell covering the said insulation and comprising tank heads, spaced sections extending between and rigidly combined with the same and removable sections.

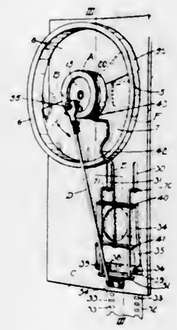
1,336,440. SLABBING AND LOADING MACHINE. EDWARD O'TOOLE, Gary, W. Va. Filed Dec. 28, 1917. Serial No. 209,349. 5 Claims. (Cl. 262—25.)

2. In a mining machine, the combination with a wheeled carriage, of a vertically oscillating arm, a shaft mounted in said arm, said shaft having its ends projecting an appreciable distance beyond the sides of said carriage, spiral conveyers on said projecting end portions only, said conveyers having a series of pick like cutters secured there-



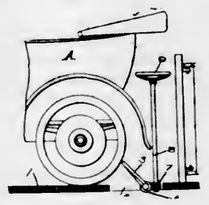
to, means for simultaneously oscillating the arm and rotating said shaft, and means for collecting the cut material.

1,336,441. CAMERA. WALTER PARKES, Elyria, Ohio, assignor to Arthur L. Garford, Elyria, Ohio. Filed Mar. 22, 1916. Serial No. 85,755. 6 Claims. (Cl. 88—18.4.)



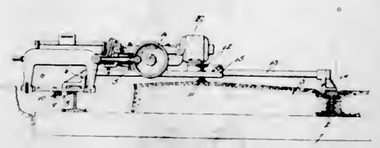
1. In a picture taking and exhibiting machine, the combination of a frame, a rotatable shutter mounted in said frame, film feed mechanism in said frame comprising a feed frame and a plurality of hooks, means pivoting said feed frame to said main frame, means controlled by said shutter for rocking said feed frame about said pivots, said hooks being mounted to slide in said frame and means controlled by said shutter for sliding said hooks up and down in said feed frame as said feed frame is rocked about said pivots and means for operating said shutter, said feed frame and said hooks in synchronism.

1,336,442. SAFETY-CHOCK. COLLINS P. READ, Newark, N. J. Filed Oct. 14, 1919. Serial No. 330,611. 3 Claims. (Cl. 104—249.)



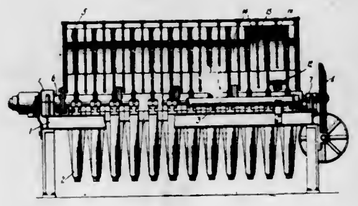
1. A vehicle chock including a strip adapted to extend across the path of a vehicle, an operating shaft, worm gearing for transmitting motion from said shaft to the strip to swing the strip upwardly and downwardly into and out of the paths of the wheels of the vehicle.

1,336,443. PORTABLE RAIL-HACKSAW. WILLIAM C. REINHARDT and OSCAR H. BANKER, Racine, Wis., assignors to Racine Tool & Machine Co., Racine, Wis. Filed Sept. 2, 1919. Serial No. 321,135. 5 Claims. (Cl. 29—73.)



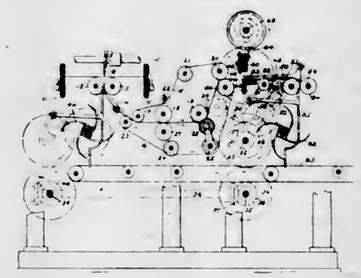
1. A portable machine of the class described including a base plate having operating mechanism mounted thereon, means at one end of the plate for securing the same adjacent the object to be operated upon, means for supporting the other end of the plate, and means for bracing the plate in one direction.

1,336,444. METHOD OF AND APPARATUS FOR FILTRATION. ORANGE J. SALISBURY, Salt Lake City, Utah, assignor to United Filters Corporation, Salt Lake City, Utah, a Corporation of Delaware. Filed Aug. 29, 1917. Serial No. 188,704. 15 Claims. (Cl. 210—14.)



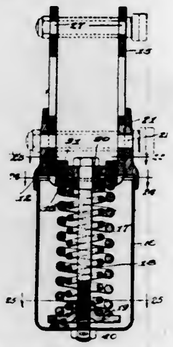
1. In the art of filtration, the step which consists in drying the cake *in situ* by heat applied to the cake in the direction of the passage of the filtrate prior to the removal of the cake from the filter medium.

1,336,445. DELIVERY MECHANISM FOR FOLDED PRODUCTS. EDWARD P. SHELDON, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Original application filed Feb. 2, 1910, Serial No. 541,447. Patent No. 1,118,513, dated Nov. 24, 1914. Divided and this application filed July 27, 1911. Serial No. 640,731. 4 Claims. (Cl. 270—37.)



4. The combination with means for producing a group of folded plies stitched together at the fold line, of forwarding means, and means acting subsequent to the folding means for trimming at one operation the edges of the plies opposite to the fold line.

1,336,446. LEAF-SPRING SHACKLE. SAMUEL M. STONE, Chicago, Ill. Filed May 25, 1917. Serial No. 170,942. 3 Claims. (Cl. 267—29.)



1. The herein described improvements in leaf spring shackles comprising in combination a head, a yoke mounted thereon for relative sliding movement, a bolt depending from the head extending through the lower end of the shackle, a follower threaded on the lower end of the bolt, a spring interposed between the follower and the lower end of the yoke, and a casing inclosing the spring, engaging the head, and positioning the lower end of the bolt.

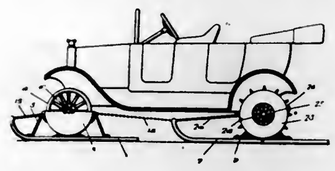
1,336,447. VALVE MECHANISM. GEORGE A. SUFFÀ, Dorchester, Mass. Filed Aug. 17, 1918. Serial No. 250,358. 6 Claims. (Cl. 123—90.)



3. In valve lifting mechanism for motors or the like, a valve seat, a valve having a valve stem and provided with a spring arranged normally to hold said valve seated on said seat, an inner sleeve arranged to engage the valve stem, an outer sleeve and intermittently operating actuating means for imparting a valve lifting movement thereto, and a spring interposed between said inner and outer sleeves, said spring embodying coils lying in close proximity but substantially non-contiguous with each other, which coils become closed together into contact relation with the coils adjacent thereto by the initial valve lifting movement of the outer sleeve and thereby cause said spring thereafter to operate as an unyielding element of determinate length in communicating the further valve unseating movement of said outer sleeve to the inner sleeve and the valve.

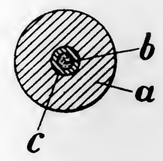
1,336,448. AUTOSLED. BERNHARD T. TOLLBOM, Samuels, Idaho. Filed Sept. 16, 1919. Serial No. 324,145. 3 Claims. (Cl. 180—6.)

2. A sled attachment for an automobile including a rear runner, means carried by the runner for supporting the rear axle housing, a ring to be disposed at the outer side of a rear wheel of the automobile and divided into sections, means for clamping said sections together, said



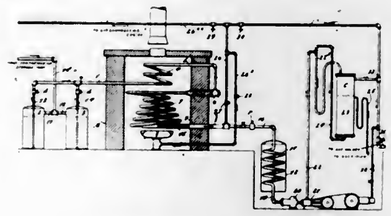
ring having an inwardly extending annular flange to embrace the rim of said wheel, and yieldable traction rods slidable in said ring and extending therefrom.

1,336,449. WIRE FOR MAKING CHAINS AND OTHER ARTICLES OF JEWELRY. RUDOLF TRUNK, Pforzheim, Germany, assignor to the Firm of Fr. Kammerer, Pforzheim, Baden, Germany. Filed Dec. 13, 1916. Serial No. 136,785. 4 Claims. (Cl. 29—182.)



1. A metallic body, in combination with solder and flux housed therein.

1,336,450. APPARATUS FOR DECOMPOSING HYDROCARBON OILS AND WATER. HENRY CLAY WADE, Bayonne, N. J., assignor, by mesne assignments, to Wadol Corporation, a Corporation of New York. Filed Jan. 11, 1916. Serial No. 71,389. 2 Claims. (Cl. 196—26.)

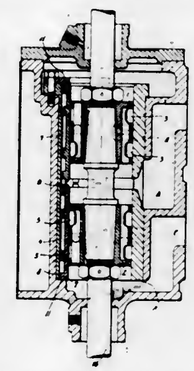


1. In an apparatus for decomposing hydrocarbon oils and water, a furnace, means in the furnace for vaporizing and preheating oil in the presence of water, a generating coil in the furnace which receives the oil and aqueous vapors from said means, the coil being in the form of a spiral having turns inclined from the inlet to the outlet of the coil, and means for attenuated metal located within and substantially at the outlet of the coil.

1,336,451. STEAM-VALVE. JOHN WALLACE, Helensburgh, Scotland, and THOMAS ROBINSON LEES, Shirehampton, England. Filed Dec. 18, 1917. Serial No. 207,732. 2 Claims. (Cl. 121—187.)

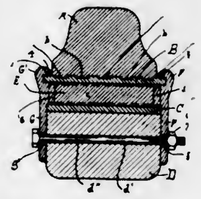
1. The hereindescribed valve device, comprising, in combination, a valve chamber including a ported cylindrical outer member, inner members of semi-annular form coaxial with and spaced radially from said outer member, the spaces between said outer member and the inner members being open to receive steam, springs interposed

between said outer member and said inner members urging said inner members in radial direction, a spring between



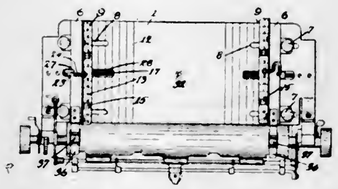
said inner members urging said inner members apart in axial direction, and a rotary central valve comprising a pair of balanced pistons fitted within said chamber.

1,336,452. TIRE. HERBERT K. WHEELOCK, Long Beach, Calif. Filed Feb. 13, 1917. Serial No. 148,317. 1 Claim. (Cl. 152—7.)



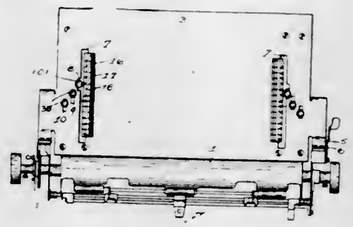
In a device of the character described, the combination with a vehicle wheel, of a tire, a rim permanently applied to the inner periphery of the tire and extending laterally beyond the same, a compressible resilient filler member interposed loosely between the wheel and the tire rim, a pair of similar and interchangeable clamping plates applied to opposite sides of the wheel and grooved in their inner faces to receive and interlock with the edges of the tire rim, and fastening members for securing the clamping rings in position, said clamping rings engaging the resilient filler member to compress the same laterally and expand it radially into a tight frictional engagement with the tire rim.

1,336,453. COLLATING DEVICE FOR TYPEWRITERS AND ADDING-MACHINES. JOHN A. WHERRY, New Orleans, La. Filed Apr. 10, 1919. Serial No. 289,120. 21 Claims. (Cl. 197—127.)



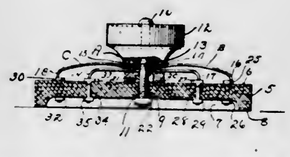
1. In a machine of the class described, the combination with a rotatable platen and a traveling carriage, of a collating board associated therewith, said board having deformable supporting standards, whereby the angle of inclination and the distance of the lower edge of the board from the platen may be varied.

1,336,454. COLLATING DEVICE FOR TYPEWRITERS AND ADDING-MACHINES. JOHN A. WHERRY, New Orleans, La. Filed July 3, 1919. Serial No. 308,362. 12 Claims. (Cl. 197—127.)



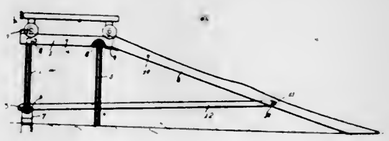
1. In a collating device, the combination with a board, of sheet alining and clamping members mounted thereon in superposed relation, said members comprising sheet engaging portions and webs which extend through the board, means connected to the webs for normally drawing said sheet engaging portions toward the board, means for raising said portions away from the board, and means for maintaining said portions in their raised positions.

1,336,455. ELECTRIC SWITCH. CLIFFORD L. WHITE, Stockdale, Ohio. Filed Apr. 17, 1918. Serial No. 229,119. 2 Claims. (Cl. 200—166.)



2. An electric switch, which comprises a base having contacts thereon, a rotatable member on the base and provided with laterally extending switch arms, each of said arms being formed of a single strip of resilient material bent to lie upon itself and the portions so formed being of unequal length and provided with curved ends serving as switch members to coöperate with the contacts, the folded inner ends of the arms being secured in recesses formed in the member, and a spacing block for the member, said block being rigidly secured on the base and serving to maintain the member away from the base.

1,336,456. COASTER. RAYMOND K. WHITNEY, Manhattan, Kans. Filed Jan. 22, 1920. Serial No. 353,177. 6 Claims. (Cl. 104—69.)

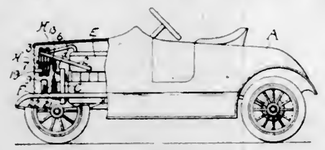


1. The combination with side rails and inclined rails movably connected thereto, of supporting means detachably connected to said side rails, a bracing structure detachably connected to the inclined rails and supporting means, and a car movable along the rails.

1,336,457. AIR-COOLER FOR ENGINES. JOKSHAN F. WITTMANN, St. Louis, Mo. Filed June 2, 1919. Serial No. 301,213. 3 Claims. (Cl. 123—171.)

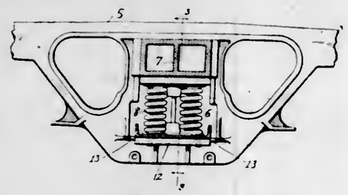
1. In combination with an internal combustion engine provided with cylinders, an air jacket surrounding said

cylinders, a fan blower mounted in front of the engine, means for supporting said engine and blower, a circulating pipe leading from the blower to the bottom of the air



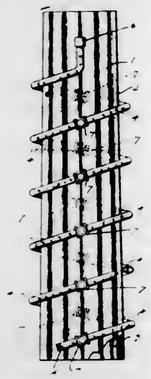
jacket, an exhaust fan mounted in front of the engine, an exhaust pipe leading from the top of the air jacket to the exhaust fan, and driving means for said fans.

1,336,458. INTERLOCKING SPRING-PLANK. HERBERT W. WOLFF, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 16, 1919. Serial No. 290,445. 4 Claims. (Cl. 105—208.)



1. In combination, a channel-shaped spring plank provided with a portion depending below the normal plane of its web, a truck side frame provided with a central opening wider than said spring plank, and integral lugs extending laterally from said side frame to interlock with the spring plank.

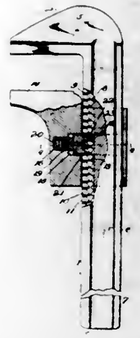
1,336,459. INGOT-MOLD AND METHOD OF MOLDING. ROBERT C. WOODWARD, Williamsport, Pa. Filed Sept. 23, 1919. Serial No. 325,634. 9 Claims. (Cl. 22—139.)



1. The method of molding ingots comprising the continuous and progressive application of water to the exterior surface of the mold commencing at the bottom thereof and continuing toward its upper end, thereby accelerating and controlling the cooling of an inclosed ingot.

1,336,460. WRENCH. WILLIAM W. WOODWARD, Mount Rainier, Md. Filed Jan. 18, 1919. Serial No. 271,832. 7 Claims. (Cl. 81—145.)

1. A wrench including a stationary jaw having a shank whose inner edge is provided with a channel having curved side walls, said walls having outer racks of teeth conforming with their curvature and facing toward said jaw and the bottom of the channel having an inner rack of teeth facing in the opposite direction, a movable jaw



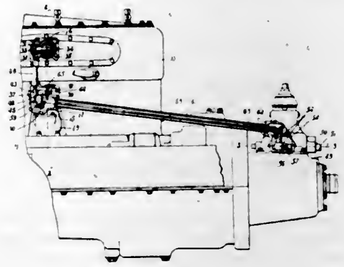
slidable on said shank, and a locking dog movably mounted within the movable jaw and having oppositely facing teeth conforming to and adapted for simultaneous engagement with the several racks.

1,336,461. LIFTING INSTRUMENT. CARL YACKEL, Syracuse, N. Y. Filed Apr. 15, 1918. Serial No. 228,611. 1 Claim. (Cl. 294—43.)



A lifting instrument for pictures comprising two levers crossing each other and pivoted together at the crossing, said levers having handles at one side of the pivot and jaws at the opposite side of said pivot, said jaws having biting edges at their extreme outer ends, the portions of the jaws between the biting edges and pivot being arched in opposite directions from each other, one of said jaws having a substantially straight end face inclining downwardly and forwardly from its biting edge, the other jaw terminating at its biting edge a distance from the pivot corresponding to the distance between said pivot and the biting edge of the opposite jaw so as not to lap upon the straight inclined face of the last-named jaw when the jaws are closed.

1,336,462. MOTOR-VEHICLE. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 18, 1916. Serial No. 126,398. 13 Claims. (Cl. 74—107.)



1. In a motor vehicle, the combination with a hydrocarbon motor and a continuously driven governor for

regulating the speed thereof, of change speed gear mechanism driven by said motor, gear shifting means for said mechanism, and means controlled by said shifting means for nullifying the regulating action of said governor.

1,336,463. PROPELLENT POWDER AND PROCESS OF MAKING SAME. CLARENCE I. B. HENNING, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 23, 1919. Serial No. 319,485. 25 Claims. (Cl. 52—3.)

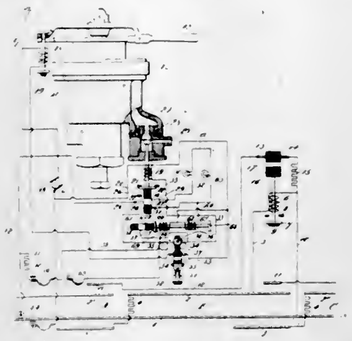
9. A propellent powder containing in a finely subdivided condition a metal capable of reducing metallic fouling.

1,336,464. PLIERS. EDWARD ALLAN IRONSIDE, London, England. Filed May 17, 1917. Serial No. 169,332. 2 Claims. (Cl. 30—17.)



1. Pliers having a jaw with a cutting surface thereon; a second jaw movably connected therewith and having a coöperating cutting surface thereon and having a recess therein; and means for bringing said jaw together in a succession of complete operations for cutting and for separating them in a single operation the first of said cutting operations bringing said cutting surfaces toward each other without touching and the second cutting operation bringing said cutting surfaces together so as to touch, said means comprising a handle and a rocker pivotally carried thereon for engagement with said recess in the second jaw.

1,336,465. APPARATUS FOR ELECTRICALLY CONTROLLING AIR-BRAKES. ELDRIDGE I. LA COUNT, Worcester, Mass., assignor to Orcutt Automatic Train Control Company, Worcester, Mass., a Corporation of Arizona. Filed Apr. 2, 1919. Serial No. 286,903. 8 Claims. (Cl. 246—71.)



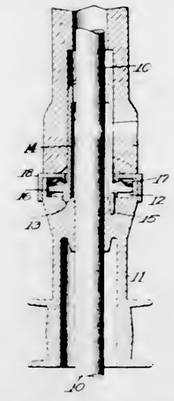
2. Apparatus for electrically controlling air brakes comprising in combination a rotary valve, electro-magnetic means for locking the same in running position and a centrifugally-actuated switch comprising an insulating portion and a conducting portion, the circuit of said electro-magnetic means being opened through said insulating portion only when the train is stationary or is traveling at a speed less than a predetermined rate.

1,336,466. TOOL-HOLDER OR TOOL. JOSEPH MUNDLE LAMB, Fazakerley, near Liverpool, England. Filed May 19, 1919. Serial No. 298,322. 3 Claims. (Cl. 77—58.)



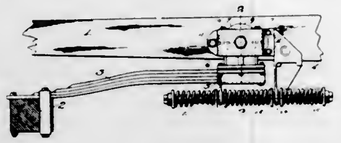
1. In combination, a tool holder which comprises a body portion, a part whereof is adapted to be secured to a drilling machine, lathe or other machine tool or device, and a part which is of tapering or conical shape and is also bifurcated by the formation of a longitudinal slot; a sleeve adapted to slide and fit upon said tapering exterior face of the slotted body part, the interior face of which sleeve being tapered correspondingly with the exterior face of said slotted body part; and a tool characterized by the possession of a part or parts adapted to enter said body slot and engage with said sleeve so that when the tool is applied to the holder it will contact with and displace said sleeve which—in turn—will force the two "spring" body limbs formed by the creation of said slot inwardly, *i. e.* toward each other, so causing them to grip the portion of the tool which has entered said slot, and to continue to do so until said sleeve is withdrawn to permit of the release of the tool.

1,336,467. SPINDLE. DAVID LEMOINE and GEORGE P. FOURNIER, Whitinsville, Mass. Filed Apr. 9, 1919. Serial No. 288,694. 2 Claims. (Cl. 242—46.6.)



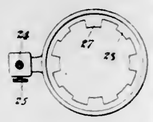
1. In a spindle, in combination, a blade, a whirl, a plurality of arms surrounding said blade and seated on said whirl, each arm having an outwardly extending portion, a cap fitting the upper end of said whirl, and an annular spring formed of resilient sheet metal engaging the under side of said cap, the continuous outer portion of said spring also engaging the upper face of the outwardly extending portion of each arm near its outer edge, and acting to move said arm yieldingly away from said blade, said cap limiting such outward movement and preventing displacement of the parts.

1,336,468. VEHICLE-SPRING. IRVIN D. LENGEL and SUMNER S. SHEARS, Reading, Pa.; said Lengel assignor to said Shears. Filed Dec. 4, 1916. Serial No. 134,881. 8 Claims. (Cl. 267—15.)



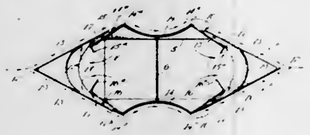
1. In vehicle springs, the combination with a vehicle frame, of axles, levers rigidly secured to the axles at one end and pivotally attached to the frame at the other end, said pivotal connection comprising a universal joint, and horizontally disposed coil springs controlling the swing of the lever.

1,336,469. DISPENSING APPARATUS. LAWRENCE W. LUELLEN, New York, N. Y., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc., a Corporation of New York. Filed Mar. 24, 1911. Serial No. 616,714. 6 Claims. (Cl. 211—8.)



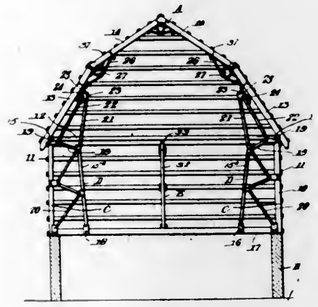
2. In a cup-dispensing apparatus, the combination with a receptacle for a stack of cups, the receptacle being provided with a discharge opening, of a cup-support located at such opening and comprising two series of inwardly-directed elastically-yieldable fingers disposed about such opening, one series projecting farther inwardly than the other.

1,336,470. VENTILATOR. STEPHEN F. MCDONALD, Cleveland, Ohio. Filed Sept. 5, 1916. Serial No. 118,386. 6 Claims. (Cl. 98—22.)



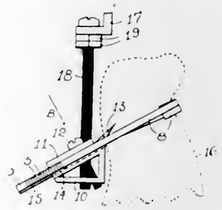
4. A double-ended symmetrical exhaust ventilator comprising an air shaft, a head comprising a base having a centrally located opening communicating with said air shaft, a top or roof above said base, a pair of forwardly converging side walls and a pair of rearwardly converging side walls interposed between said base and said top or roof, said pairs of side walls providing between their convergent ends a forwardly and a rearwardly directed outlet, respectively, communicating with the air shaft, other side walls extending between the base and top and connecting the divergent ends of the first mentioned walls, a pair of forwardly and a pair of rearwardly inclined end walls, the walls of each pair of end walls meeting to form respectively a forwardly and a rearwardly directed wedge, the rear ends of one pair of the last mentioned walls and the front ends of the other pair of the last mentioned walls overlapping the corresponding portions of the first mentioned walls and forming with such portions rearwardly and forwardly convergent ducts, respectively, each having a discharge outlet across which the air flowing on each side of each wedge is delivered, thereby to exercise an aspirating effect upon the ducts, the first mentioned outlets, and the air shaft, and a forwardly and a rearwardly convex baffle located respectively in front and at the rear of the first mentioned outlets and respectively connecting the forwardly and the rearwardly inclined end walls.

1,336,471. BARN. ALEXANDER FINDLY MCGIRR, Metcalfe, Ontario, Canada. Filed Nov. 10, 1916. Serial No. 130,634. 1 Claim. (Cl. 20—1.)



In a structure of the class described, a joist, an upright at the end thereof, a rafter supported by said upright, a vertical member connected to the joist and spaced from the said upright, diagonal struts connecting said upright and vertical member, a pair of converging members connected respectively to said upright and vertical member, at their lower ends, and connected together at their upper ends, a resilient adjustable wedge-shaped piece on the upper ends of the converging members, and a purlin supported by the wedge-shaped piece, designed to support the rafter.

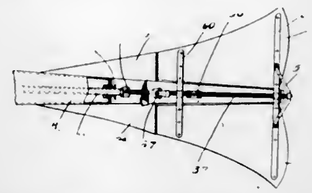
1,336,472. AUTOMATIC CLUTCH. ARTHUR H. MANNING, Colorado Springs, Colo. Filed July 8, 1919. Serial No. 309,522. 3 Claims. (Cl. 17—30.)



1. An automatically operating clutch adapted to grasp and hold large articles, as quarters of meat, sacks of grain or vegetables and similar packages, comprising, a base, a plunger mounted diagonally downwardly in a race in said base, rack teeth on each side of said plunger, prongs on the upper end of said plunger adapted to engage said articles, opposite embracing clutch arms pivotally mounted on opposite sides of said plunger and upon said base, the pivotal end of each of said arms forming a disk with its under side in movable contact with said base, pinion teeth on the perimeter of said disks adapted to engage said rack teeth so as to operate said arms as said plunger is moved longitudinally, and a spring member adapted to force said plunger upwardly when released from the weight of a suspended article.

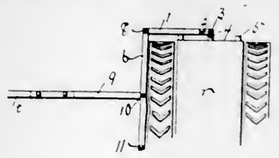
1,336,473. HYDROAERO-MACHINE. CHESTER A. MARSH, Bay City, Mich. Filed Oct. 27, 1917. Serial No. 198,803. 4 Claims. (Cl. 244—29.)

1. In a machine of the character specified, the combination of a shaft comprising portions coupled by means of a universal joint, means for imparting a rotary movement to the shaft, a vertically disposed guide receiving the rear end of the pivoted portion of the shaft, a member slidable on the forward portion of the shaft, conecting means be-



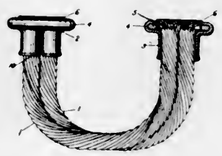
tween such member and the rear pivoted portion of the shaft, and planes connected with the pivoted portion of the shaft and extending laterally therefrom in opposite directions and adjustable therewith.

1,336,474. TRACTOR-HITCH. VERNON MATTHEWS, Carthage, Mo. Filed May 14, 1918. Serial No. 234,527. 5 Claims. (Cl. 213—67.)



1. A tractor hitch comprising a plurality of pivotally connected iron straps for insertion between a tractor and an implement to be drawn thereby, said straps being connected to pivot and fold around the tractor on the backing thereof to position the implement at right angles to the tractor.

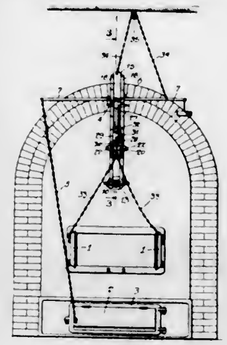
1,336,475. ELECTRICAL CONNECTOR. GEORGE A. MEAD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Jan. 5, 1918. Serial No. 210,523. 10 Claims. (Cl. 173—278.)



10. An electrical connector comprising in combination a flexible body and a terminal member secured together, the terminal member provided with a slot open at one side and two ends to receive the body member and having a projecting hollow shelf with a solid metal filler member positioned in the hollow space of the projecting shelf.

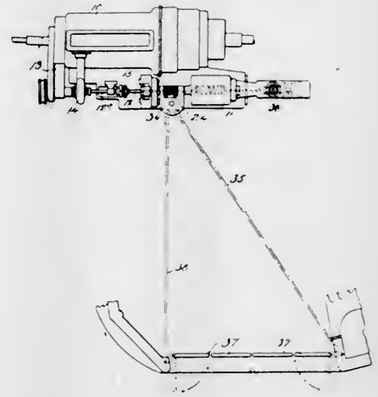
1,336,476. DEVICE FOR OPERATING FURNACE-DOORS. CHARLES E. MEYERS, Chicago, Ill. Filed Apr. 21, 1919. Serial No. 291,784. 7 Claims. (Cl. 161—8.)

1. In a device of the character described, a guide-frame including parallel members which are L-shaped in cross-section, one web of each member being arranged parallel with and opposite a corresponding web of the other bar and with the other webs of the two bars extending laterally away from each other in a common plane and the parallel webs being secured together in spaced relation by cross-members at top and bottom, a plate slidingly



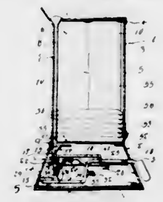
mounted on the front of the lateral webs, and a spring housed between the parallel webs and connected at its bottom to the slide and at its top to the guide frame.

1,336,477. COMBINED PROPELLING-MOTOR AND DOOR-OPERATING MECHANISM FOR CARS. GEORGE WASHINGTON MEYERS, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 20, 1919. Serial No. 318,775. 19 Claims. (Cl. 105—62.)



1. In a car, the combination with an engine for propelling the car, of a starting motor, for starting said engine, a door for said car, and means actuated by said motor for opening and closing said door.

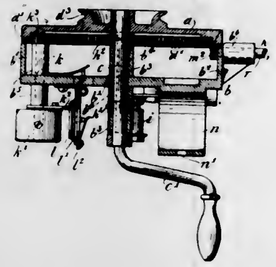
1,336,478. VENDING-MACHINE. GEORGE W. MILLER, San Francisco, Calif. Filed Oct. 24, 1918. Serial No. 259,541. 3 Claims. (Cl. 194—79.)



1. A vending machine comprising a cabinet adapted to hold superposed packages and having an opening in front

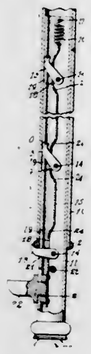
of the lowermost package, a door to close said opening, means to yieldingly hold the door closed, a movably mounted member adapted to hold a coin in position to engage the rear end of the lowermost package, means to move said member toward the door, a shaft mounted in the cabinet, an abutment on the shaft to support the coin, means operative to retract the coin-holding means, and means operative by the retractive movement to turn the shaft.

1,336,479. PROJECTOR. ERIK WM. NELSON, New Rochelle, N. Y. Filed Jan. 13, 1919. Serial No. 270,821. 3 Claims. (Cl. 88—17.)



1. A projector for moving pictures comprising a flanged casing provided with bearings for the several working parts, a driving shaft mounted in the casing, a driving gear fixed on the driving shaft and conforming to the flange of the casing to complete the inclosure and formed with internal gear teeth, and sprocket drums and a film feeding device all mounted on the casing and having pinions engaging the internal teeth of the driving gear.

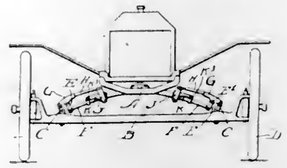
1,336,480. LEG EXTENSION. FREDERICK NELSON, Jamestown, N. Y., assignor of one-half to Christian Esperson, Jamestown, N. Y. Filed Aug. 6, 1919. Serial No. 315,627. 6 Claims. (Cl. 5—4.)



1. A leg extension comprising a tubular leg, a tubular extension slidably fitting in said tubular leg having a series of vertical spaced slots therein, and a series of similarly spaced drop catches in said tubular extension to drop out through said spaced slots to support the lower end of said tubular leg at different heights.

1,336,481. AUXILIARY SPRING FOR MOTOR-VEHICLES. DAVID NETTENSTROM, Chicago, Ill. Filed Dec. 20, 1915. Serial No. 67,702. 8 Claims. (Cl. 267—27.)

1. In combination with a vehicle body, an axle and a leaf spring of graduated thickness connecting them, a yielding mounting for the thin end of said leaf spring comprising a cantaliver spring fulcrumed on one of said parts which the leaf spring connects, said leaf spring having a pivot fixed to it at a point remote from its thin



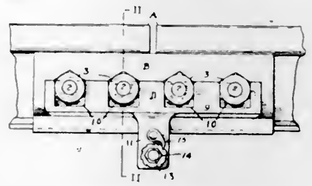
end, a pivot fixed to the end of the cantaliver spring remote from its fulcrum, a link connecting said pivots and another link connecting the thin end of the leaf spring to a part of said cantaliver spring intermediate its ends.

1,336,482. ROPE-CLAMP. SVEN NILSON, Waterbury, Conn. Filed June 24, 1918. Serial No. 241,616. 1 Claim. (Cl. 24—123.)



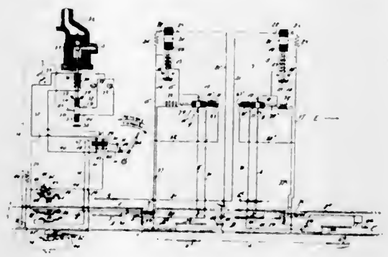
In a rope clamp, a casing terminating at one end in a wedge-shaped head, a bolt rotative in said casing, a peripherally grooved roller arranged in said head to receive a rope and for coöperation with said head, a peripherally grooved disk fast upon and movable with said bolt, and connection between the said roller and the grooved portion of said disk whereby movement of the latter is transmitted to said roller to cause it to travel longitudinally of said head.

1,336,483. RAIL-JOINT MECHANISM. MARIN NOIR, North Fayette township, Allegheny county, Pa. Filed Dec. 5, 1919. Serial No. 342,714. 5 Claims. (Cl. 238—262.)



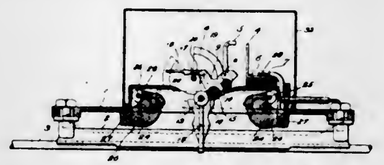
1. In rail joint mechanism, the combination of a pair of joint plates adapted to be applied to the opposite sides of the rails to bridge the joints, said plates being provided with bolt holes registering with the bolt holes in the rails, flanges depending from said plates and abutting together, bolts inserted in said bolt holes, nuts screwed upon said bolts against one of the joint plates, a member notched to fit over said nuts to lock the same, and means for clamping said member and said flanges together.

1,336,484. TRAIN-CONTROLLING SYSTEM. BENJAMIN A. PRINCE and ELDRIDGE I. LA COUNT, Worcester, Mass., assignors to Orcutt Automatic Train Control Company, Worcester, Mass., a Corporation of Arizona. Filed Apr. 2, 1919. Serial No. 286,853. 13 Claims. (Cl. 246—71.)



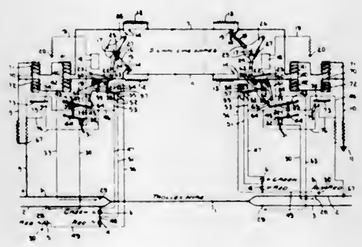
9. A train controlling system comprising in combination a track switch located in a given block, a ramp in the block ahead of said given block, a circuit connecting said track switch to said ramp and means controllable from the block in the rear of said given block for rendering said track switch inoperative and then restoring the same to normal condition.

1,336,485. TROLLEY-SWITCH. JOHN J. RUDDICK, Newton, Mass. Filed Mar. 14, 1919. Serial No. 282,670. 6 Claims. (Cl. 246—252.)



1. In a trolley switch, the combination with two contacts, of trolley-actuated means to close said contacts, automatically-operative means to open the contacts, an inertia device, and means to connect said inertia device to said automatically-operative means after the contacts are closed whereby said inertia device retards the opening of the contacts.

1,336,486. BLOCK-SIGNAL SYSTEM. JOHN J. RUDDICK, Newton, Mass. Filed Mar. 14, 1919. Serial No. 282,671. 9 Claims. (Cl. 246—63.)



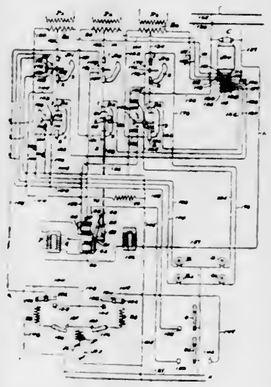
1. In a block signal system, the combination with two parallel-connected normally-balanced signal-controlling circuits, of means to unbalance said circuits as a car enters the block, a signal circuit, and means rendered operative when said controlling circuits are unbalanced to close the signal circuit.

1,336,487. REGISTERING-HOOK. HERMAN SAUTER, Chicago, Ill., assignor to Latham Automatic Registering Company, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1919. Serial No. 310,405. 4 Claims. (Cl. 101—389.)



1. A device of the character described comprising a base member formed with a slide-way, a separable divided block in said slide-way having its members formed with a longitudinal screw threaded bore, said block having a pivot bearing formed partly in each member of the block, a hook having a headed pivot engaging said bearing, and a locking screw engaging said bore.

1,336,488. CONTROL SYSTEM. WILLIAM M. SCOTT, Tredyffrin township, Chester county, Pa. Original application filed Nov. 4, 1914, Serial No. 870,176. Patented Dec. 18, 1917, No. 1,250,674. Divided and this application filed Nov. 12, 1917. Serial No. 201,615. 19 Claims. (Cl. 171—118.)



1. The combination with a converter of alternating current into direct current, of switches controlling delivery of alternating current of different voltages to said converter, means positively locking one of said switches in open position against actuation until another of said switches has been opened, and means for freeing said one of said switches from said locking means.

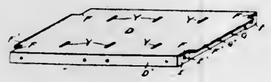
1,336,489. SIGNAL DEVICE. CLAUD F. SMITH, Kalamazoo, Mich. Filed June 7, 1919. Serial No. 302,431. 4 Claims. (Cl. 116—46.)



3. In a signal device, the combination of a supporting bracket adapted to be mounted on the edge of the body of a vehicle at the side of the driver, a signal member having signal indicia on both sides and provided with a spindle

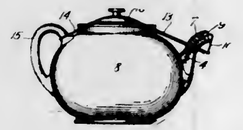
having a hand piece at its inner end and a bearing for said spindle pivotally mounted on said bracket, the pivot being disposed at right angles to the spindle so that the signal may be swung to a horizontal erected position and the spindle rotated to display either side or to a vertical collapsed position.

1,336,490. METALLIC SHELVING. EDWARD C. STAPLES, Canton, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 17, 1919. Serial No. 271,587. 6 Claims. (Cl. 211—27.)



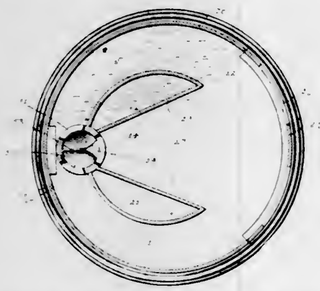
1. A metallic shelving construction comprising corner upright members provided with angular portions, a shelf having the corners notched out and having depending flanges at the notched out portion, the said shelf engaging the upright members at the notched out portions, the notched out portions fitting around the angular portion of the uprights, and means for securely holding the shelves to the upright members, whereby the shelves and the uprights form a rigid structure.

1,336,491. COMBINATION HOLDER AND STRAINER. CHARLES STERN, New York, N. Y. Filed Feb. 16, 1920. Serial No. 359,011. 5 Claims. (Cl. 53—3.)



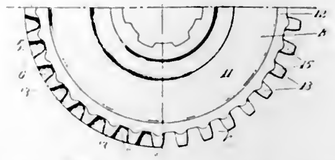
1. In combination, a teapot having a spout, lid and handle, a strainer adapted to enter the spout of said tea pot, and a holder adapted to keep said strainer in said spout and simultaneously engage and hold said teapot lid in position.

1,336,492. PHONOGRAPH. ARTHUR E. TEAL, Walker township, Kent county, Mich. Filed Mar. 24, 1919. Serial No. 284,664. 11 Claims. (Cl. 274—2.)



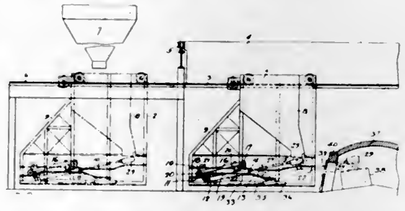
1. In a phonograph; sound reproducing means; a tone arm; a sound amplifier leading from the tone arm, and having branches so interrelatively disposed that the sound waves issuing from one branch intersect and blend inside the amplifier with those issuing from the other branch, the mutually adjacent sides of the branches being in non-parallel relation and their inner surfaces being convex.

1,336,493. ART OF MAKING GEARS. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 22, 1915. Serial No. 62,797. 8 Claims. (Cl. 29—159.)



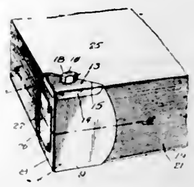
1. A method of making toothed gears consisting in first forming rounded tooth ends on the blank by a pressing operation, and then forming the remainder of each tooth by a cutting operation.

1,336,494. FURNACE-CHARGING APPARATUS. FRANK E. TROUTMAN, Butler, Pa. Filed Mar. 5, 1919. Serial No. 280,839. 6 Claims. (Cl. 214—31.)



1. In apparatus for charging glass furnace pots, the combination with a suitable frame, of a batch supply receptacle carried thereby, a vertically undulating track on said frame, a carriage on said track, and a tiltable ladle mounted on said carriage whereby said ladle may be brought into position to receive the batch from said receptacle advanced into the furnace and lifted to avoid striking the edges of the pot and tilted to discharge the batch into said pot.

1,336,495. BINDER. EMIL R. WOHLER, Chicago, Ill. Filed May 12, 1919. Serial No. 296,531. 6 Claims. (Cl. 129—23.)

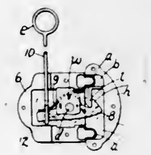


1. A binder comprising a corner member consisting of two sides and an end disposed at right angles to each other to leave one open end, the two sides forming guides for one corner of the bound sheets; an end member for closing the open end of the corner member, and adjustable connecting means between the end of the corner member and the end member, at least one end member having an oblique edge over which the sheets may be turned back.

1,336,496. LATCH-LOCK. JOHN WOLF, Topeka, Kans. Original application filed Apr. 21, 1919, Serial No. 291,571. Divided and this application filed Aug. 2, 1919. Serial No. 314,960. 1 Claim. (Cl. 292—128.)

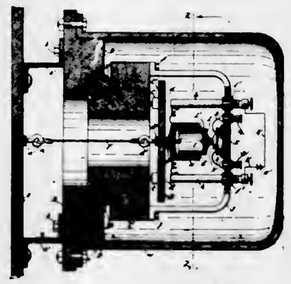
A lock of the character described comprising a casing, a bridge-piece spanning the open side of the casing, a

latch-lever of the first class pivotally mounted in the casing between the bridge-piece and outer wall of the casing and oscillating in the plane of the bridge-piece, a locking finger at the free end of one arm of the latch-lever, tongues on the sides of the casing projecting beyond the open end of the casing, a flexed spring in the casing behind the bridge-piece having one end secured to the casing on the inner side of one of the tongues, the free end of the spring bearing against one side of the



opposite lever arm of the latch, a tripping rod terminating at one end in a finger engaging the opposite side of said lever arm, a keeper member, a chamber in the keeper member for receiving and guiding the tongues and latch lever of the casing, and a catch on the keeper at the open side of the chamber thereof disposed across the plane of disposition of the tongues for engaging the locking finger of the latch, the tongues being disposed in the general plane of, and extending beyond, the bridge-piece.

1,336,497. RECEIVER-MOUNTING FOR SUBMARINE SIGNALS. EDWARD C. WOOD, Somerville, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed May 18, 1918. Serial No. 235,377. 10 Claims. (Cl. 179—104.)

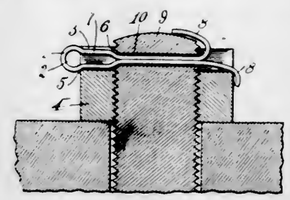


1. The indicator mounting above described comprising a compressional wave-receiving member, a vibrating member connected thereto, an indicator, a transformer one member of which is connected to said vibrating member, the other member being mounted to vibrate and connected to said indicator, and connections whereby one member of said transformer may be electrically energized.

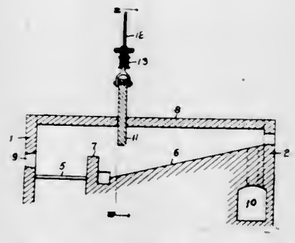
10. That method of receiving at an indicator compressional waves coming from a desired direction, which consists in causing one member of a transformer to be vibrated by said waves in a line parallel with said direction, whereby the electrical energy due to the transformer action may be collected on an indicator, and absorbing the vibrations of other compressional waves before they reach the transformer.

1,336,498. COTTER-KEY. WILLIAM E. AYLOR and MILTON RAUH, Dayton, Ohio. Filed Aug. 8, 1919. Serial No. 316,105. 2 Claims. (Cl. 74—8.)

1. A cotter key having an elongated head with an eye therein, the said head being formed by extending outwardly the shank members of the key in approximate parallelism in the formation of the said head, and providing shoulders on the opposite sides of the said head to limit the penetration of the said key so that the eye thereof may remain exposed when the key is inserted.



1,336,499. DEFLECTING-WALL FOR FURNACES. GEORGE BAEHR and EUGENE L. MESSLER, Pittsburgh, Pa. Filed Oct. 23, 1917. Serial No. 198,077. 5 Claims. (Cl. 263—36.)



1. A heating furnace having a grate, a hearth, a roof, and a transverse heat deflecting wall composed of a plurality of slabs of fire resisting material mounted for independent movement in order to vary the effect of the heat from the grate on the hearth.

1,336,500. IMITATION-FIRE. HERBERT HENRY BERRY, London, England. Filed Nov. 23, 1917. Serial No. 203,648. 3 Claims. (Cl. 240—2.)

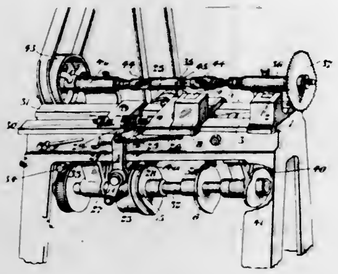


3. Imitation fuel for fires comprising blocks of glass and pieces of opaque material in combination with a support for said block and pieces, a pair of lights positioned behind said support, a pair of thermally operated fans between said lights and support, said fans being adapted to rotate in opposite directions, so that the flickers are thoroughly intermingled and mirrors for enhancing the intermingling effect.

1,336,501. CUTTING OR SAWING MACHINERY. SIDNEY P. BLANCKENSEE, Birmingham, England. Filed Jan. 19, 1918. Serial No. 212,683. 2 Claims. (Cl. 29—69.)

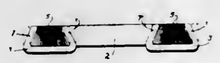
1. A tool mounted for rotation and also for movement toward and from the work, a shaft mounted for

rotation, means including a member revolved by said shaft to impart such movement to the tool; a relatively fixed work holder including a movable work gripping element; means including a member revolved by said shaft to impart gripping and releasing movement to such element; a slidably mounted work holder and feeder



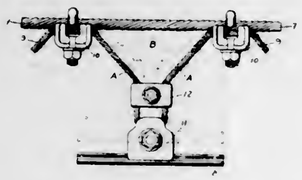
movable axially with respect to the tool and including a movable work gripping element, means including a member revolved by said shaft to impart sliding movement to the said slidably mounted work holder and feeder, and means also including a member revolved by said shaft to operate the work gripping element of said slidably mounted work holder and feeder.

1,336,502. RAIL-BOND. WILLIAM P. BOYARD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Nov. 2, 1917. Serial No. 199,958. 4 Claims. (Cl. 173—278.)



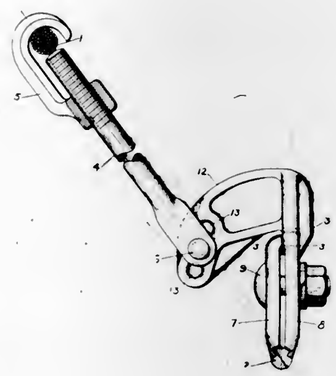
3. A rail bond comprising a flexible body member and a rigid terminal member, the terminal member having a transverse slot in one side thereof to receive the body member and having the oppositely disposed sides of the terminal member pressed into locking engagement with the body member.

1,336,503. CATENARY SUSPENSION SYSTEM FOR ELECTRIC RAILWAYS. JOHN ROWLAND BROWN and GLENN H. BOLUS, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 12, 1917. Serial No. 190,898. 4 Claims. (Cl. 191—41.)



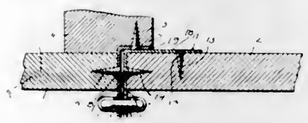
2. A hanger for electric railways consisting of a flexible member having divergent portions and adapted to be secured at its upper extremity to a messenger cable and at its lower extremity to a trolley wire, and an adjusting device slidably secured to and connecting the divergent portions of the hanger at points intermediate its upper and lower extremities for varying the effective length of the hanger by pulling toward each other the divergent portions at various points, said device comprising clamping jaws to engage the hanger and means for adjusting the jaws in position.

1,336,504. CURVE PULL-OFF HANGER. JOHN ROWLAND BROWN, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 18, 1917. Serial No. 197,235. 3 Claims. (Cl. 191—41.)



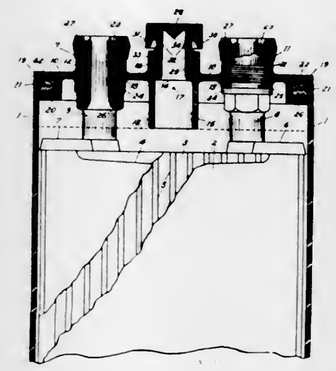
1. A pull-off hanger for electric lines comprising clamping members provided with complementary grooves in their inner sides to receive a trolley wire, and means for adjustably securing the hanger to a support consisting of an arm formed integrally with one of the clamping members and provided with a plurality of openings arranged one above the other and at one side of the grooves.

1,336,505. DOOR-FASTENER. HARRY K. BUGGELN, Corona, N. Y. Filed Mar. 4, 1919. Serial No. 82,178. 1 Claim. (Cl. 70—14.)



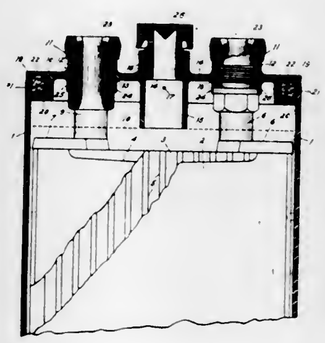
A door fastener comprising a hasp plate provided at one end with a shackle receiving eye and at its other end with an angularly related relatively short flange, said plate and flange being provided with screw receiving openings to permit the plate to be secured to the inner side of the door casing and the flange to the front side of the door jamb by angularly related screws, and a second hasp plate provided near one end with a shackle receiving eye and at its other end with a relatively long angularly related flange, said second plate and its flange being provided with screw receiving openings to permit the plate to be secured to the free edge of the door and the flange to the inner side of the door by angularly related screws, the flange of the second plate being adapted when the door is closed to engage the flange of the first plate to prevent wear of the jamb and to cause a full registration of the shackle receiving eyes.

1,336,506. BATTERY-CELL AND VENT MEANS THEREFOR. CAMPBELL C. CARPENTER and ROY J. ELLIS, Niagara Falls, N. Y., assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Original application filed Apr. 6, 1916, Serial No. 89,290. Divided and this application filed Sept. 13, 1916. Serial No. 119,833. 8 Claims. (Cl. 204—53.)



2. A battery cell cover provided with an opening suitable to permit the passage of gases and of liquid, a removable cap for said opening, said cap being provided with an aperture in its side wall and being also provided with a depending apron portion shielding said aperture.

1,336,507. BATTERY-JAR AND COVER. CAMPBELL C. CARPENTER and ROY J. ELLIS, Niagara Falls, N. Y., assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Original application filed Apr. 6, 1916, Serial No. 89,290. Divided and this application filed Sept. 13, 1916. Serial No. 119,834. 8 Claims. (Cl. 215—80.)

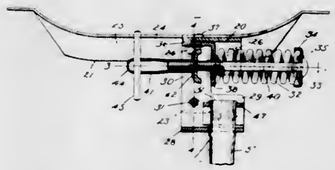


1. In a battery cell, a jar and a cover, said cover having its outside edges coincident with the outside surface of the walls of said jar, said cover being provided near its outside edges with flanged portions, integral with said cover, said flanged portions being L-shaped in cross section whereby to form a trough around said cover, said flanged portions being adapted to engage the inside walls of the jar, and sealing compound located in said trough whereby to form a tight seal between said jar and said cover, said cover being provided with holes above said trough and communicating with said trough.

1,336,508. UTILIZATION OF NATIVE ALUNITE. HOWARD F. CHAPPELL, New York, N. Y. Filed June 11, 1918. Serial No. 239,406. 2 Claims. (Cl. 23—13.)

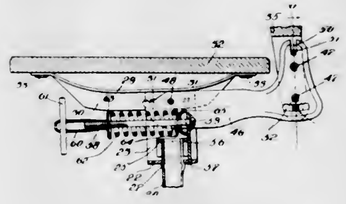
1. The method of utilizing crude alunite to recover alumina and potassium salts therefrom, which consists in treating the native alunite with dilute sulfuric acid to dissolve out the aluminum and potassium compounds present in alunite, then precipitating out the iron with a cyanid, then adding ammonia to the solution so as to precipitate aluminum hydrate, then separating the precipitated hydrate from the soluble potassium and ammonium salts, then calcining the hydrate to give alumina, and recovering the potassium and ammonium salts in a solid form.

1,336,509. CHAIR-IRON. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Original application filed May 2, 1918, Serial No. 232,020. Divided and this application filed Nov. 7, 1918. Serial No. 261,530. 5 Claims. (Cl. 155—77.)



1. In a chair iron, the combination with a spider having a spreader provided with depending ears, of a supporting head having upstanding ears, a pintle pivoting the ears of the spreader to the ears of the head, and an angular spring abutment plate having a horizontal flange or web affixed to the spreader, and having a depending vertical web normally pressed against the ears of the head by the action of the springs.

1,336,510. CHAIR-IRON. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Dec. 19, 1918. Serial No. 267,458. 17 Claims. (Cl. 155—157.)

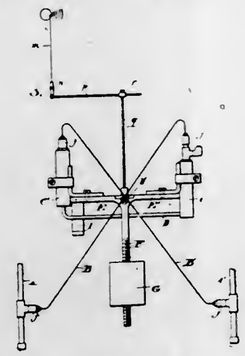


1. A chair iron comprising a yoke, a pintle supported by the sides of said yoke, a back-supporting rocker extending into the yoke and pivoted on the pintle, an abutment on the head, a member on the rocker, a bolt engaged with the abutment and passing through said member, a nut on the bolt, and a spring interposed between the nut and the said member on the rocker.

1,336,511. DIFFERENTIAL-PRESSURE GAGE. WILLIAM JAMES CROWELL, Jr., Lebanon, Pa. Filed Feb. 20, 1917. Serial No. 149,970. 8 Claims. (Cl. 73—31.)

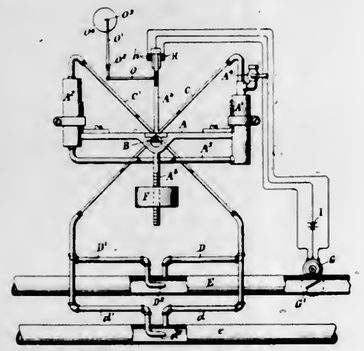
1. In a differential pressure gage, the combination of a U tube, a support on which said U tube is pivoted, and a

transversely flexible pressure transmitting tube having one end fixed and the other end connected to one leg of the



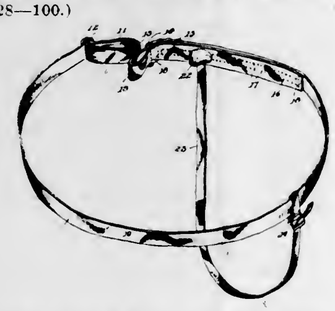
U tube, and having its body portion radially disposed with respect to the pivotal axis of said U tube.

1,336,512. RATIO-METER. WILLIAM J. CROWELL, Jr., Wyncote, Pa. Filed Aug. 21, 1918. Serial No. 250,796. 5 Claims. (Cl. 210—19.)



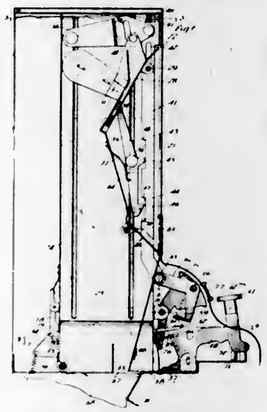
1. A controlling instrument for ratio regulating apparatus comprising a pair of tilting U tube gages each adapted to be connected to a separate conduit and to be controlled in angular position by the flow through said conduit, and means carried by the two gages, and operative through changes in their relative angular positions whereby ratio regulating mechanism can be set in operation.

1,336,513. TRUSS. JOSEPH DOLECEK, Rahway, N. J. Filed Mar. 26, 1919. Serial No. 285,161. 4 Claims. (Cl. 128—100.)



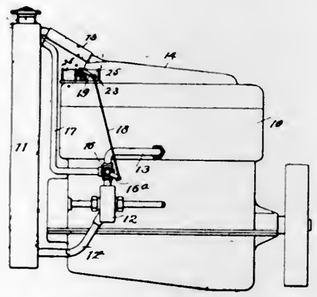
1. A truss including a belt having a terminal portion bent upon itself and secured to the inner face of the main portion of the belt to form a loop on one end of the belt, a metallic fastener member secured to the belt inwardly of the free end of said loop, and a second metallic fastener attached to the other end of the belt and adapted for connection to said first named fastener member, said end loop being arranged inwardly of the fastener members to prevent the latter from contacting the body of the wearer.

1,336,514. COIN-CONTROLLED PACKAGE-DISPENSING APPARATUS. WILLIAM P. DUN LANY, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 22, 1913. Serial No. 808,099. 8 Claims. (Cl. 194—63.)



1. An apparatus of the character described comprising, in combination: means for discharging one article at a time from a stack of articles; and coin-controlled mechanism governing the operation of said means, said mechanism including a movable bar, a detent adapted to prevent full movement of the bar when no coin is present, and a coin chute moved by said bar and adapted to position a coin inserted therein to actuate said detent to inoperative position and permit full article-discharging movement of the bar, substantially as specified.

1,336,515. CONTROL SYSTEM FOR VALVES AND THE LIKE. WILLIS G. FERGUSON, Cleveland, Ohio. Filed May 11, 1917. Serial No. 167,905. 6 Claims. (Cl. 236—78.)



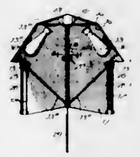
2. In combination with a circulation system or circuit and a valve for controlling the same, of a thermo-electric system of control for the valve comprising a movable member for shifting the valve, electro-magnetic means for shifting said member, movable and stationary contact members for said electro-magnetic means, a thermostat in position to be affected by the temperature of the medium in the circulation system or circuit for shifting

the movable contact member into engagement with the stationary contact member, and separate means for separating the contact members immediately after being brought into engagement by the thermostat.

1,336,516. YARN AND FABRIC AND PROCESS OF PRODUCING. AUGUST G. FROMUTH, Philadelphia, Pa., assignor to Alva Carpet & Rug Company, a Corporation of Pennsylvania. Filed May 19, 1916. Serial No. 98,576. 8 Claims. (Cl. 139—9.)

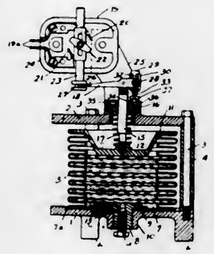
1. The variegated yarn produced by twisting together strands of undyed woolen fibers of different natural colors and applying color at different separated points along the yarn so produced.

1,336,517. SIGN. GEORGE E. FULLER, Chicago, Ill. Filed Feb. 21, 1916. Serial No. 79,584. 2 Claims. (Cl. 40—130.)



2. An advertising sign comprising a casing, advertising frames forming the sides thereof, lights in the casing, and a reflector between said lights depending downwardly between the side frames adapted to intercept direct rays from said lights to reflect the same through the advertising frames to substantially illuminate said advertising frames only by reflected rays of light.

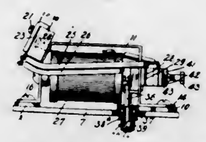
1,336,518. THERMOSTAT. FRED J. HEIDEMAN, Detroit, Mich., assignor, by mesne assignments, to Percy M. Fowl, Henry R. Krueger, Charles E. French, and Fred J. Heideman, Detroit, Mich. Filed Mar. 14, 1919. Serial No. 282,549. 4 Claims. (Cl. 200—140.)



1. In a thermostat, the combination with the heat-responsive element thereof, of an electric switch, a lever for actuating said switch from the heat-responsive element, a spring opposing expansion of the heat-responsive member, an abutment for said spring adjustable to vary the compression thereof, a fulcrum for said lever, and means constraining said fulcrum to follow said abutment when the latter is adjusted.

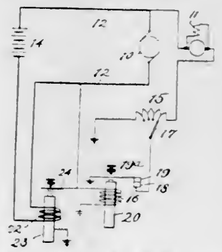
4. In a thermostat, the combination with a frame comprising spaced plates, of a sylphon arranged between said plates, a bushing securing one end of the sylphon to one of said plates of the frame, the passage in said bushing forming a fill opening for the sylphon, a valve seated in said bushing normally closing the opening thereof, a switch carried by the other plate of said frame, and means for actuating said switch from the sylphon.

1,336,519. ELECTRICALLY-OPERATED VIBRATORY MOTOR. CHARLES J. HENSCHEL, Brooklyn, N. Y. Filed Feb. 28, 1919. Serial No. 279,797. 6 Claims. (Cl. 177—7.)



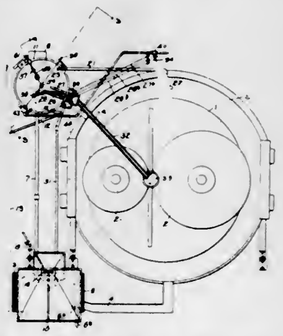
1. In a device of the character described, the combination, with a casing and a rocking shaft supported by said casing and extending therethrough, of a coupling key mounted upon said rocking shaft, a frame detachably mounted upon said casing, and an electrically operated motor mechanism carried by said frame and including a vibratory armature, said armature being provided with a slot for fitting it upon said coupling key.

1,336,520. PROTECTING MEANS FOR DYNAMO-ELECTRIC MACHINES. JOHN H. HERTNER, Lakewood, Ohio, assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 5, 1918. Serial No. 238,261. 5 Claims. (Cl. 171—312.)



1. The combination with a dynamo electric machine having a shunt field circuit, of magnetically operated means for preventing excessive current passing through the field coils when the machine is on open circuit, and magnetically operated means for throwing said preventing means out of action when current is passing through the load circuit.

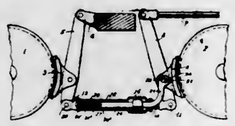
1,336,521. APPARATUS FOR APPLYING ABRASIVES TO GRINDING AND SMOOTHING MECHANISM. HALBERT K. HITCHCOCK, Pittsburgh, Pa. Original application filed Dec. 31, 1913, Serial No. 809,695. Divided and this application filed July 19, 1918. Serial No. 245,655. 2 Claims. (Cl. 51—11.)



1. Apparatus for grinding and smoothing plate glass, comprising in combination, a single grinding table, and

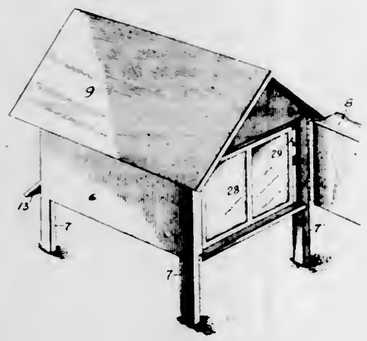
a sand grading apparatus and circulating system associated therewith and supplying said individual grinding table alone, and comprising grading apparatus receiving the sand and water from the grinding table and arranged to separate the fine from the coarse sand, conduits arranged to repeatedly circulate the coarse sand so separated out to the grinding table and back to the grading apparatus for re-grading, whereby the sand is progressively reduced in size, progressively finer grinding is effected, and the necessary fine sand for finishing is produced, means for separating the fine sands into various grades and storing the same, and means for conducting said fine grades or fractional parts thereof successively to the grinding table, independently of each other.

1,336,522. SLACK-ADJUSTER. WALTER W. HUNZICKER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Dec. 18, 1918. Serial No. 267,310. 32 Claims. (Cl. 188—199.)



2. A slack adjuster comprising two relatively movable parts adjustable to change its length permanently to hold slack taken up thereby, in combination with mechanism adapted to extend said parts to take up slack of varying amounts up to a predetermined maximum amount.

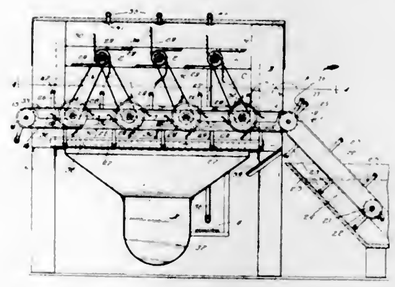
1,336,523. BEEHIVE. ROMAN KARPINSKI, Export, Pa. Filed Sept. 9, 1919. Serial No. 322,710. 2 Claims. (Cl. 6—2.)



1. A bee hive comprising a casing, a hinged cover therefor, a door closing one end of said casing, a window positioned inwardly of said door, the opposite end of said casing having an entrance opening for the bees, the inner walls of said casing having opposite grooves, an extensible rack slidably positioned in said grooves and relatively small honey combs supported on said rack and extending into said grooves, said rack including cross bars and a connecting extension bar.

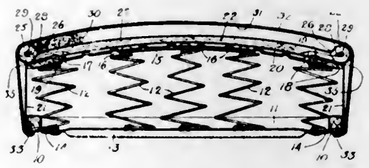
2. A bee hive comprising a casing, a hinged cover therefor, a door closing one end of said casing, a window positioned inwardly of said door, the opposite end of said casing having an entrance opening for the bees, the inner walls of said casing having opposite grooves, an extensible rack slidably positioned in said grooves and relatively small honey combs supoprted on said rack and extending into said grooves, said rack including cross bars and a connecting extension bar, the honey combs being supported on the extension bar of said rack.

1,336,524. CARCASS-DEHAIRING MACHINE. LOUIS A. KRAMER, Chicago, Ill. Filed Jan. 19, 1920. Serial No. 352,501. 27 Claims. (Cl. 17—11.)



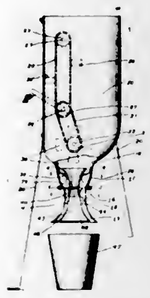
1. In a carcass cleaning machine, carcass advancing means including push members having revoluble portions.

1,336,525. UPHOLSTERED SEAT-CUSHION. EDWARD C. LANG, Melrose, and CLARENCE A. VAN DERVEER, Wakefield, Mass., assignors to Heywood Brothers and Wakefield Company, a Corporation of New Jersey. Filed Mar. 7, 1917. Serial No. 153,175. 3 Claims. (Cl. 155—25.)



1. An upholstered cushion comprising a suitable base, and an upholstering unit including a sheet of fabricated upholstery material having initially a greater area than the top of the base, and an outline permitting its marginal portion to be turned back and secured to the body thereof, whereby said unit is provided with rounded upwardly extending beads that project beyond the upper edges of the base.

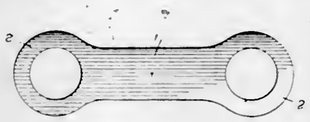
1,336,526. POTATO-PEELER. WILLIAM LEFTERUK, Gonor, Manitoba, Canada. Filed Nov. 13, 1919. Serial No. 337,787. 3 Claims. (Cl. 146—14.)



2. In a potato peeler, the combination with a cylindrical casing having one flattened side and a contracted

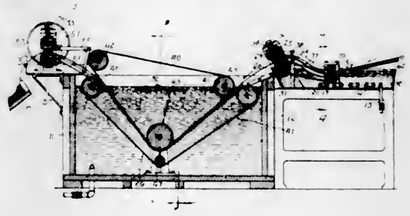
lower end, of a conical receiver mounted at the lower portion of said casing, said receiver being comprised of a plurality of spring impelled units disposed so that their smaller portions are directed downward, a second conical element secured at the lowermost portion of said casing, knives integrally formed with said second conical element, said knives projecting upward to said springs, and means for supporting said second conical element at the lowermost extremity of said casing.

1,336,527. BUFFER. SENECA G. LEWIS, Greensburg, and GEORGE W. DAUM, Jeannette, Pa. Filed Jan. 2, 1920. Serial No. 348,733. 1 Claim. (Cl. 16—77.)



A door buffer formed of sheet rubber, and comprising medial web, adapted to fold over the edge of a door, and of terminal loops, adapted to be stretched over the opposite knobs of a door and to come to place about the shanks which carry said knobs, substantially as described.

1,336,528. METHOD OF AND APPARATUS FOR COATING PAPER-BOARD WITH PARAFFIN OR THE LIKE. JOHN W. LOW, Joliet, Ill. Filed June 4, 1917. Serial No. 172,642. 9 Claims. (Cl. 91—31.)

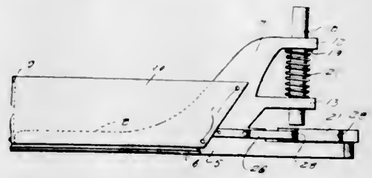


2. The process of treating paperboard with paraffin or like coating material, which consists in the steps of immersing a sheet of paperboard in a bath of hot coating material; subjecting the sheet to pressure while in the bath; passing the coated and pressed sheet again through the hot coating bath, and finally passing the coated sheet into and through a chilling bath.

7. A machine for treating sheets of paperboard with paraffin or like coating material comprising an open top tank for containing a body of cold water; a pan for containing hot coating material located near the level of the top of said tank; a pair of hard faced rollers whose line of peripheral contact is submerged in the coating material; a pair of cushioned faced rollers located between said hard faced rollers and said tank and arranged above the level of the tank; means to guide a sheet through the coating material to said hard faced rollers; means to guide the sheet through said coating material from said hard faced rollers to said cushion faced rollers and a carrier for carrying the sheets through said body of cold water, to which the sheets are delivered by said cushion faced rollers.

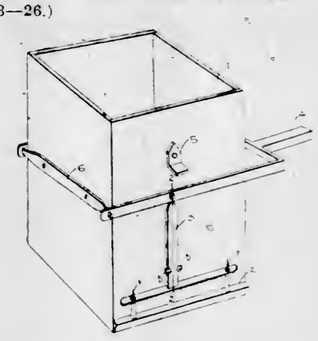
1,336,529. PUNCH. LARS ANTON LUNDMARK, Loraine, Wis. Filed Mar. 6, 1919. Serial No. 281,025. 4 Claims. (Cl. 164—94.)

1. A punch of the class described comprising a base formed adjacent one end with an upstanding bracket having upper and lower guide lugs projecting therefrom, the upper lug having an opening provided with opposed notches in the edge thereof, the lower lug also having an opening in vertical alinement with the first-named opening, and a seat surrounding the same, a rotatable die mounted upon said base beneath said lug and having a plurality of openings therein adapted to be brought into vertical alinement with the openings in said lugs, a plunger operable in the openings in said lugs and having



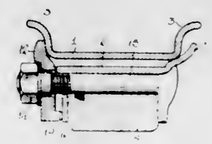
a transverse stop pin engageable with said upper lug and adapted to be turned to register with said notches whereby to remove the plunger, and a spring coiled about said plunger and having one end engaged in the seat in said lower lug to normally maintain the plunger in a retracted position with respect to an opening in said die.

1,336,530. BAG-HOLDER. BERT MCBRIDE, Ada, Ohio. Filed Nov. 24, 1919. Serial No. 340,411. 1 Claim. (Cl. 83—26.)



A bag holder consisting of bars or cleats adapted to be rigidly secured to the opposite sides of a chute or spout, and provided with upwardly extending pins, a handle pivotally connected to said chute, dependent bars connected with said handle on opposite sides of said spout, guides for said dependent bars, a cross bar connected with each of said dependent bars, said cross bars having openings therein adapted to receive said pins, and means for limiting the movement of said handle.

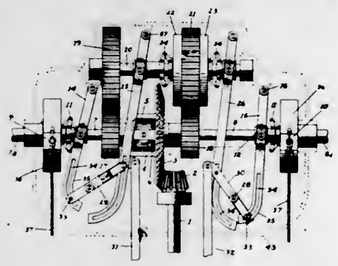
1,336,531. VEHICLE WHEEL WITH DEMOUNTABLE RIM. JOHN C. MANTERNACH, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 10, 1916. Serial No. 90,031. 1 Claim. (Cl. 152—21.)



The combination with a wheel body having a transversely beveled, outwardly inclined flange adjacent its inner edge and extending substantially entirely around the same, and a similar oppositely inclined flange adja-

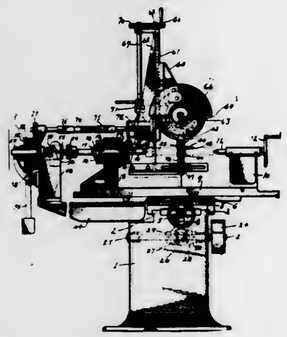
cent its outer edge extending around a portion of the circumference of said wheel body only and gradually merging with said wheel body; of a demountable rim for said wheel body adapted to be swung into seating position between said flanges throughout their common extent; and means adapted to retain said rim in such position, said means including spaced supporting lugs on the inner face of the portion of said rim that is clear of such last-named flange, bearing plates on the sides of the felly and clamps adapted to laterally engage such portion of said rim and press the same into full engagement with the other flange, said clamps being provided with ribs on their inner faces adapted to press against said plate and act a fulcra to increase the pressure exerted by said clamps against said rim.

1,336,532. COMBINED DIFFERENTIAL AND CLUTCH TRANSMISSION. PERRY M. MYERS, Lockeford, Calif. Filed Apr. 22, 1919. Serial No. 291,857. 3 Claims. (Cl. 74—99.)



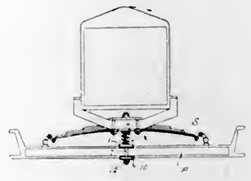
1. A combined differential and transmission mechanism comprising in combination with a driven gear, a differential operatively mounted therewith, and axles operatively connected with said differential; pinions on the axles, a jackshaft parallel thereto, gears on the jackshaft meshing with the pinions, one of the gears being keyed to the shaft and the other one turnable thereon, a clutch on each side of said turnable gear, a clutch on each axle beyond the pinions thereon, either of a corresponding pair of clutches at a time being disengaged, and a common means for each axle clutch and the corresponding clutch on the jackshaft whereby the disengaged clutch will be thrown in and the other clutch then disengaged.

1,336,533. MACHINE FOR GRINDING CUTTERS, REAMERS, AND LIKE TOOLS. RAGNVALD M. NICOLAYSEN, Detroit, Mich. Filed Mar. 27, 1919. Serial No. 285,468. 15 Claims. (Cl. 51—7.)



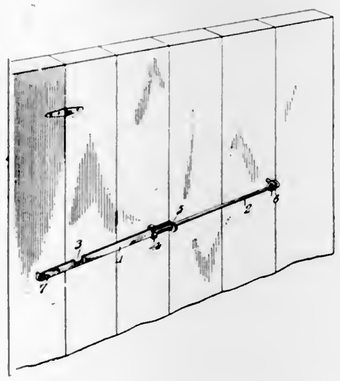
1. In a tool grinding machine, grinding means rotatable in a fixed plane, work supporting means reciprocatable past the grinding means angularly adjustable in respect to the plane of the grinding means, means for locating and guiding the work as it contacts with and traverses the grinding means and means for driving the grinding means and work supporting means.

1,336,534. SHOCK-ABSORBER. CHARLES PARDEE, Augusta, Me. Filed Aug. 18, 1919. Serial No. 318,224. 4 Claims. (Cl. 267—28.)



1. A shock absorber adapted to be interposed between a member and a spring and comprising a plate, a face of said plate being provided with a socket, a compression member having an end portion seated within said socket and of a length to substantially constantly engage the spring, shanks disposed through the plate and provided with hook members engaging the compression member, and clamping means coacting with the shank for holding the same to the first named member and for holding the compression member within the socket of the plate.

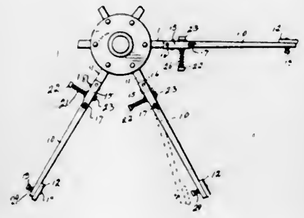
1,336,535. DOOR STOP AND LOCK. FRED PAULUS and OSCAR PAULUS, Harvard, Nebr. Filed Apr. 15, 1919. Serial No. 290,303. 3 Claims. (Cl. 292—267.)



1. A device of the character described comprising a rod and a flat strip having telescopic engagement with each other, one adapted to be attached to a closure member, and the other to the closure casing, one end of the rod being extended in right angular relation to the rod and formed into a collar adapted to surround the strip, said collar being slidable on the strip, one end of the strip being extended in right angular relation to the strip and slidably disposed on the rod, said strip having a notch adapted to receive the collar of the rod, and eyebolts on the outer extremities of the rod and strip on which the rod and strip oscillate, whereby said rod and strip are disposed in a plane parallel to the surface

of the closure member and closure casing when the closure is closed, and in angular relation to the closure and closure casing when the closure is opened.

1,336,536. HARVESTER-REEL ARM. GUSTAVE H. PRIGAN, Burns, Mont. Filed Mar. 12, 1919. Serial No. 282,073. 1 Claim. (Cl. 56—226.)



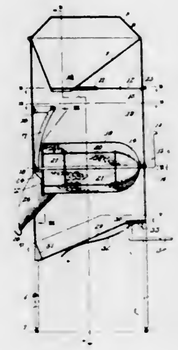
A reel for harvesters comprising a rigid section and a movable section, the sections having beveled abutting ends to hold the sections in alinement with each other and permit movement of the movable section in one direction, an elongated splicing member secured to and partially surrounding the rigid section and projecting beyond the beveled end thereof, said projecting portion of the splicing member pivotally supporting and partially surrounding the movable section and preventing the movable section from binding in its pivotal movement, said movable section having an opening, said splicing member having an opening registering with the first mentioned opening, a bolt carried by the movable section and extending through the registering openings and a spring disposed on the bolt between the splicing member and the free end of the bolt to resist movement of the beveled end of the movable section away from the splicing member and beveled end of the rigid section.

1,336,537. SAMPLE-TAKING DEVICE. WILLIAM E. REMBERT, Humble, Tex. Filed Sept. 19, 1919. Serial No. 324,801. 7 Claims. (Cl. 255—61.)



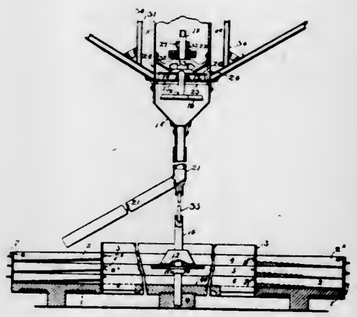
1. A sample taking device comprising a coupling member, a hollow shank secured therein, a length of pipe on said shank, a valve controlled diaphragm at one end of said pipe and a hollow cylindrical shaped bit at the other end thereof.

1,336,538. ASH-SIFTER. HARRY ROZENSKE, Detroit, Mich. Filed Jan. 23, 1920. Serial No. 353,419. 8 Claims. (Cl. 83—60.)



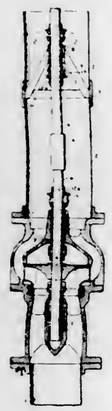
1. An ash sifter comprising a casing having a hopper in the upper end thereof, a sifting drum journaled for rotation beneath the hopper normally at a slight forward inclination and tiltable upwardly to a rearward inclination, said sifting drum having an open end so that when the same is tilted upwardly the contents of said hopper may be deposited into the drum through its open end, means for opening and closing the forward end of said drum when the same is in its normal lowered position, and means for rotating said drum.

1,336,539. CEMENT-MOLDING APPARATUS. CHARLES F. RUBY, Shawnee, Okla. Filed June 24, 1919. Serial No. 306,361. 9 Claims. (Cl. 25—41.)



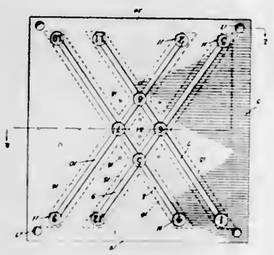
4. In a cement products plant an annular mold support, radial mold compartments, means for supplying said mold compartments with aggregate from vertically above the center of said radial mold compartments, a central mixer and means for supplying said mixer from radially located hopper bins, with aggregates.

1,336,540. BEARING-PROTECTOR FOR DEEP-WELL PUMPS AND THE LIKE. ROBERT SCHORR, San Francisco, Calif., assignor to Byron Jackson Iron Works, Inc., San Francisco, Calif., a Corporation of California. Filed Aug. 29, 1918. Serial No. 251,869. 2 Claims. (Cl. 64—22.)



1. Means for preventing wear on a bearing immersed in a fluid containing foreign matter comprising centrifugal devices at the respective ends of the bearing equalizing the fluid pressure at said ends.

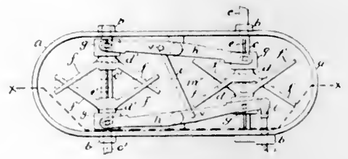
1,336,541. PUZZLE. OLIVER JEROMINO SHEPHERD, New York, N. Y. Filed Oct. 27, 1919. Serial No. 333,759. 2 Claims. (Cl. 46—41.)



1. The herein described puzzle consisting of a plate provided with two pairs of parallel undercut grooves crossing each other, twelve button devices slidably engaged in said grooves and numbered consecutively from one to twelve, said buttons being capable of being arranged in said grooves in seven combinations each comprising four buttons whose numbers total twenty-six.

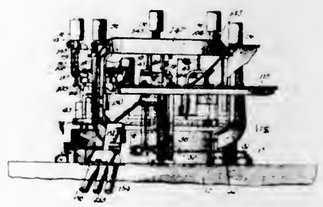
1,336,542. MECHANICAL DEVICE FOR TRANSMITTING AND REGULATING SPEED. CARMELO SOLLIMA, Paris, France, assignor of one-half to Antonio Sollima, Brooklyn, N. Y. Filed Aug. 22, 1918. Serial No. 251,034. 2 Claims. (Cl. 64—8.)

1. In a device for regulating speed, the combination consisting of the rotatable shaft provided with a keyway, the pair of slidable hubs mounted thereon, the ends facing each other provided with radially arranged arms inclined forwardly, the pivoted swinging levers, each having one of its ends connected with the sleeve engaging with the slidable hubs, the obliquely arranged cross bar having its ends loosely connected with the aforesaid



pivoted levers at relatively opposite sides of their pivots, and the controlling rod connected with the end of one of the said pivoted levers, the whole working in unison with the second pair of similar formed hubs by means of the continuous belt or cable.

1,336,543. TESTING-MACHINE. JOHN STANLEY STULL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York N. Y., a Corporation of New York. Filed May 19, 1916. Serial No. 98,537. 33 Claims. (Cl. 153—48.)



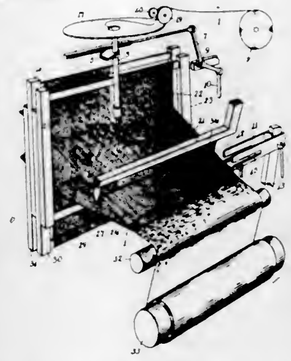
1. A machine for bending contact springs comprising means for holding a spring, means for putting said spring under stress, and means for deforming said spring a variable amount, said deforming means being controlled by said stress applying means.

1,336,544. ELECTRIC-GENERATOR ATTACHMENT FOR WINDMILLS. VERNON L. SULLIVAN, El Paso, Tex. Filed Feb. 12, 1919. Serial No. 276,562. 1 Claim. (Cl. 171—322.)



A device for conveying current between two relatively rotatable members comprising a band of insulating material attached to one of said members and having an outwardly projecting flange with angular conductor plates attached to said band above and below the flange, and companion annular conductor plates bearing against the angular plates, respectively, and having arms by which they are supported on the other member, said annular plates being bent outwardly to provide contact points which slide over the angular plates, and electric connections extending to and from the two sets of conductor plates, respectively, substantially as herein shown and described.

1,336,545. LOOM. RICHARD GREENLEAF TURNER, Malden, Mass. Filed June 12, 1917, Serial No. 174,233. Renewed Sept. 4, 1919. Serial No. 321,980. 11 Claims. (Cl. 139—18.)



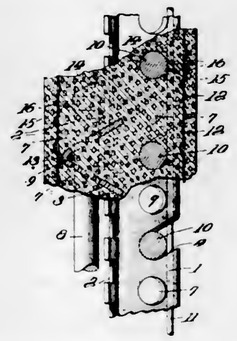
1. A loom comprising harness frames carrying warp threads, a shuttle having an eye adapted to be thrown through the shed, and means vertically entering the shed at a point intermediate of its width for delivering a weft thread through said eye to the fabric being woven.

1,336,546. CRANK OR CRANK-SHAFT OF INTERNAL-COMBUSTION ENGINES. ARTHUR WILLIAM WALL, Sheldon, near Birmingham, England. Filed Dec. 27, 1918. Serial No. 268,546. 2 Claims. (Cl. 74—38.)



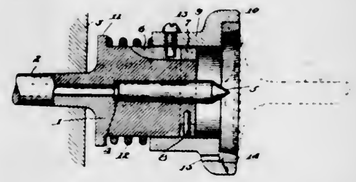
1. A composite crank shaft comprising a series of disks having integral hollow bosses constituting crank pin and crank shaft portions, said bosses being formed with interengaging dogs.

1,336,547. FRAMEWORK FOR REINFORCING AND SHAPING CONCRETE STRUCTURES. FRED A. WRIGHT, Wilmington, N. C. Filed Feb. 21, 1919. Serial No. 278,473. 11 Claims. (Cl. 72—110.)



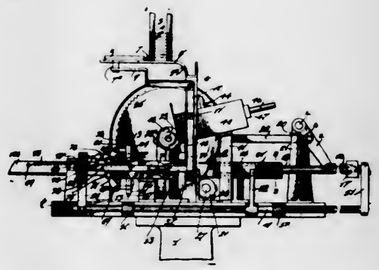
4. A framework for reinforcing and shaping concrete structures including in combination, a series of longitudinally extending V-shaped bars, a series of transversely extending V-shaped bars, the free edges of one of said series of bars having notches formed therein arranged to receive the free edges of the other series of bars, whereby said bars are locked together, and reinforcing rods and expanded fabricated metal secured to said V-shaped bars opposite the free edges thereof.

1,336,548. FRICTION-DRIVER FOR LATHES AND GRINDERS. GODFREY B. AMUNDSEN, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 16, 1919. Serial No. 297,714. 17 Claims. (Cl. 82—40.)



1. The combination of a spindle, a sleeve carried by said spindle, a work-engaging and driving ring carried by said sleeve and yielding means for focing said ring into engagement with the work.

1,336,549. WRAPPING-MACHINE. ERNEST D. ANDERSON, New York, N. Y., assignor to E. D. Anderson Inc., New York, N. Y., a Corporation of New York. Filed June 12, 1917. Serial No. 174,191. 4 Claims. (Cl. 93—2.)



1. The combination of means to retain wrappers, means to supply and retain articles opposing the wrappers, a plunger at one side and a receiving passage at the other side of the retained wrappers and articles, means to reciprocate the plunger to push articles and wrappers therewith into the passage for partially folding wrappers on the articles, stationary folders within the passage to partially fold the wrappers upon the articles as they are pushed by the plunger along the passage one after another, a pair of opposing folders movable transversely of said passage and spaced from the stationary folders on the side away from the plunger, another pair of opposing folders at an angle to the first named pair of folders and movable transversely of said passage, and means to move said pairs of folders separately and relatively to the movements of the plunger unfolded by the stationary folders.

1,336,550. PLOW-WHEEL ADJUSTER. CLYDE L. BAKER, Central Lake, Mich. Filed July 25, 1917. Serial No. 182,704. 1 Claim. (Cl. 97—14.)

A shiftable gage wheel attachment for plow beams adjustable for movement through different limits and com-

prising a housing having an extension recessed to receive a removable attaching clamp, said housing having a pair of vertically spaced direction rollers therein, a gage wheel having a standard provided with a longitudinal slot in which both rollers are received for longitudinal adjustment of the standard with respect to the



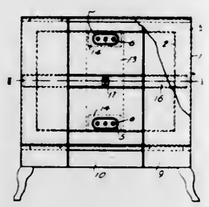
housing, said standard having rack teeth along one longitudinal edge exposed outwardly of the housing, and a lever having means for pivotally connecting it with a plow beam without perforation of the latter and having at one end a segmental gear removably engaged with the rack teeth and having less angular extent than the longitudinal extent of the rack teeth.

1,336,551. TRANSPORTATION APPARATUS. LOUIS W. CHISM, Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn., a Corporation of Connecticut. Filed June 7, 1915. Serial No. 32,493. 2 Claims. (Cl. 186—34.)



1. A track comprising, in combination, a pair of rails, and supporting means therefor having a comparatively rigid portion in a plane transverse to said rails, and a pair of rail-supporting arms having twisted portions contiguous to the points of support of the rails.

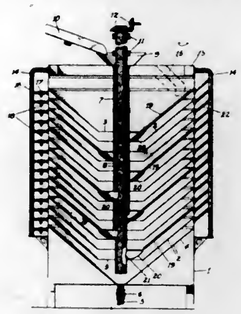
1,336,552. HEATING APPARATUS. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Electric Stove Company, a Corporation of Michigan. Filed Aug. 11, 1917. Serial No. 185,747. 9 Claims. (Cl. 126—39.)



1. In an electric heating device, the combination with a supporting frame, and an oven contained therein, of means for yieldingly attaching said oven to said supporting frame in such manner as to provide top, bottom, side and rear spaces for heat-insulating material between said oven and said supporting frame.

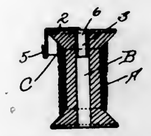
1,336,553. SLIME-THICKENER. WILTON E. DARROW, Sutter Creek, Calif. Filed July 12, 1919. Serial No. 310,331. 4 Claims. (Cl. 210—5.)

1. A slime thickener including a tank, a plurality of funnel shaped floors therein on which the slime is adapted to settle, an open ended pipe extending into the tank from the top and central thereof and terminating short of the bottom, the pipe being adapted for rotation in the tank, and means on the pipe whereby with the rotation



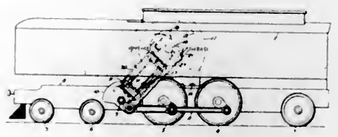
thereof the slime on the floors will be removed therefrom and passed into the pipe to be deposited on the bottom of the tank.

1,336,554. THREAD-HOLDER. CHRISTINE DAVIS, Minneapolis, Minn. Filed Feb. 15, 1919. Serial No. 277,299. 1 Claim. (Cl. 242—126.)



A thread holder for spools having a short spring body adapted to be inserted a short distance in an end of the hole of a spool, and to expansively engage the spool, said body being formed with an arm radiating outwardly closely over an end of the spool said arm being formed with an overhanging end resting on the periphery extending substantially parallel with the axis and inwardly between the ends of the spool, the inner extremity of said overhanging end being formed with an out turned hook, the side edges of said hook being pinched in near its base to form a thread engagement.

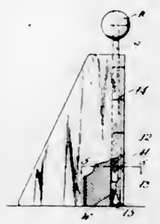
1,336,555. LOCOMOTIVE CONSTRUCTION. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1917. Serial No. 167,088. 10 Claims. (Cl. 105—120.)



1. In a locomotive, the combination with a motor having an armature and armature bearing housings, and a jack shaft located adjacent to said motor, of an inclined connecting rod for joining said armature to the jack and means disposed parallel to the connecting rod for securing the armature bearing housings to the motor frame.

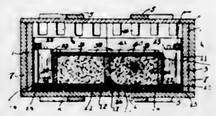
1,336,556. TOY. CHARLES W. EBELING, New York, N. Y. Filed June 20, 1918. Serial No. 240,920. 4 Claims. (Cl. 46—59.)

1. In a toy of the class described, a housing or support, provided with a channel, a plunger mounted for reciprocation in the channel, a resilient plate having a cam-like face in alinement with the plunger whereby when the



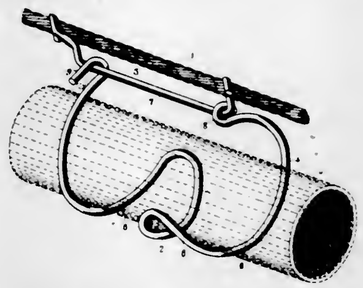
plunger rides on the cam-like face, the resilient plate is thrown forwardly.

1,336,557. APPARATUS FOR PRODUCING SMOKE-SCREENS. RAYMOND C. BENNER and HARRY F. FRENCH, Fremont, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Sept. 19, 1918. Serial No. 254,739. 19 Claims. (Cl. 114—15.)



1. In smoke producing devices, a composition adapted to react to produce smoke and means for heating said composition at the bottom thereof to start the reaction.

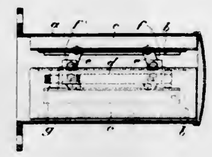
1,336,558. ANTI-ABRASION CABLE-SUPPORT. BANCROFT GHERARDI, Bayhead, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,259. 3 Claims. (Cl. 248—33.)



3. A cable supporting device formed from two pieces of spring wire, including a yoke comprising a bar having at its ends upwardly extending and oppositely facing hooks adapted to engage a messenger wire, and a cable ring constituting a support for a cable, said cable ring having a loop at either of its ends, the loops being hinged to said bar in proximity to each of its upwardly extending hooks, whereby it is adapted to be rotatably suspended from said yoke.

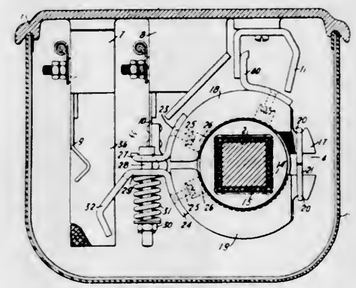
1,336,559. ELECTRIC INTERNAL TUBE-HEATER. HERBERT GUTZWILLER, Schönenwerd, Switzerland. Filed Aug. 7, 1918. Serial No. 248,770. 2 Claims. (Cl. 219—37.)

1. An electric internal tube heater, comprising curved segments with heating bodies, independent from each other, thus constituting separate heating segments, the curvature of which corresponds to that of the inner wall of the tube, said segments being movably connected to a



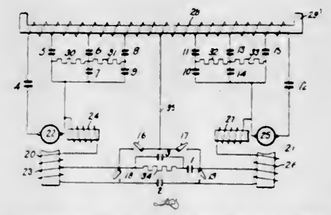
screw device centrally arranged within the tube and designed to allow of tightly pressing the segments against the inner wall of the tube.

1,336,560. CONTROL APPARATUS. ARTHUR J. HALL, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 9, 1914, Serial No. 865,847. Renewed Aug. 26, 1919. Serial No. 320,051. 8 Claims. (Cl. 200—9.)



3. The combination with a rotatable drum, a split sleeve surrounding said drum, and removable means for holding said split sleeve parts together at one end, of metal members detachably secured to the respective opposite ends of said split sleeve parts, resilient means cooperating with said metal members for holding said split sleeve in frictional engagement with said drum and means independent of said resilient means for limiting the rotative movement of said sleeve to a predetermined degree.

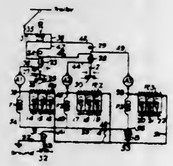
1,336,561. SYSTEM OF MOTOR CONTROL. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 7, 1915. Serial No. 54,540. 4 Claims. (Cl. 172—276.)



1. The combination with a source of alternating current, of two alternating-current motors of the commutator type provided with exciting windings connected thereto in series relation, the exciting windings of the two motors being immediately adjacent in said series

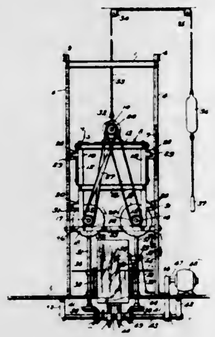
connection by virtue of connecting means between the outer terminals thereof, alternative connecting means whereby intermediate points in said field windings may be interconnected, and means for introducing an impedance device into one of said connecting means.

1,336,562. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1916. Serial No. 122,373. 29 Claims. (Cl. 172—179.)



20. In an electrically-braked vehicle, the combination with a plurality of momentum-driven dynamo-electric machines, of means dependent upon a material difference of machine speeds for automatically sanding the rails while maintaining operative main-machine conditions.

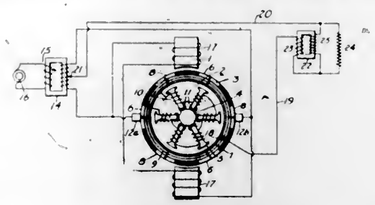
1,336,563. ICE-CUTTING MACHINE. ROSS H. HURFORD, Canton, Ohio. Filed Apr. 4, 1919. Serial No. 287,488. 5 Claims. (Cl. 125—13.)



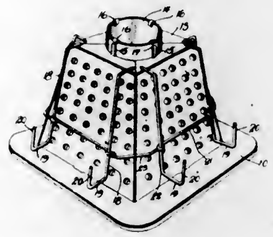
1. In an ice cutting machine, a carriage vertically movable in a straight line, a plurality of rotating saws carried by said carriage, a conveyer operating in alinement beneath said carriage and designed to bring a block of ice in position to be cut, means for checking and holding said block of ice stationary in such position and means for lowering the carriage to permit the rotating saws to cut the said block of ice during said lowering operation.

1,336,564. MECHANICAL RECTIFIER AND MEANS FOR IMPROVING THE OPERATION OF THE SAME. OLIVER S. JENNINGS, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1917. Serial No. 151,979. 7 Claims. (Cl. 175—364.)

1. In a mechanical rectifying system, a rectifying commutator, a driving motor therefor, comprising rotor and stator windings, and means connecting said commutator to said windings whereby the motor starts as a single-phase shunt commutator motor and whereby, during rectifying operation, said rotor winding is supplied with unidirectional current and said motor operates as a synchronous motor.

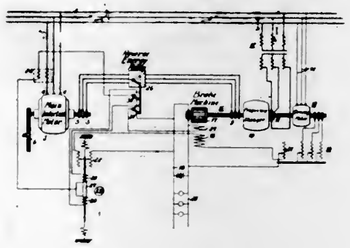


1,336,565. TOASTING AND BOILING DEVICE. WILLIAM H. KETLER, Camden, N. J., assignor of one-third to Herman C. Engel, Camden, N. J. Filed Aug. 11, 1917. Serial No. 185,785. 12 Claims. (Cl. 53—5.)



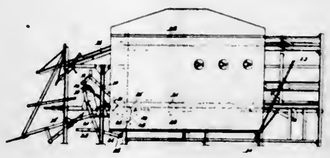
1. In a combined toaster and boiler, the combination of a base plate having a relatively large central opening, a body part mounted on the base plate, and extending upwardly therefrom and provided with an opening in its top and perforations in its sides, racks supported exteriorly upon the body, and a receptacle suspended in said opening of the body and projecting downwardly therethrough.

1,336,566. SPEED-CONTROL SYSTEM FOR INDUCTION-MOTORS. BENJAMIN G. LAMME and WILFRED SYKES, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 2, 1918. Serial No. 232,156. 8 Claims. (Cl. 172—274.)



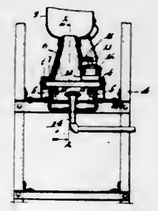
1. The combination with an induction motor, of a frequency-changer connected to determine the slip-frequency thereof, adjustable-speed driving means for said frequency-changer, an auxiliary dynamo-electric machine coupled to said frequency-changer, means for causing said auxiliary machine to operate either as a motor or as a generator, and means dependent upon the load of said induction motor for varying the motoring or generating effect of said auxiliary machine.

1,336,567. CAN-REVERSING MECHANISM FOR CAN-WASHING MACHINES. HARRY D. LATHROP and WALTER H. PAULSON, Chicago, Ill.; said Paulson assignor to said Lathrop. Original application filed Feb. 16, 1917, Serial No. 149,102. Divided and this application filed July 19, 1917. Serial No. 181,565. 2 Claims. (Cl. 214—130.)



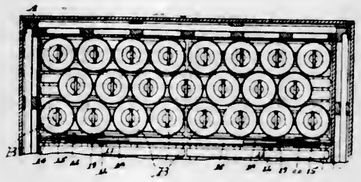
1. In a can washing machine, can reversing mechanism comprising an oscillatory element adapted to receive and reverse a can deposited thereon; means for effecting actuation of said reversing element, said means comprising an oscillatory arm; a reciprocatory member adapted to engage with and rock said arm in actuating said reversing element; and a shoulder on said arm adapted for engagement by said reciprocatory member, when said element is in can reversing position, to lock the same in this position, substantially as described.

1,336,568. CARRIER FOR CAN-WASHING MACHINES. HARRY D. LATHROP, Chicago, Ill. Filed Mar. 18, 1918. Serial No. 223,218. 6 Claims. (Cl. 141—7.)



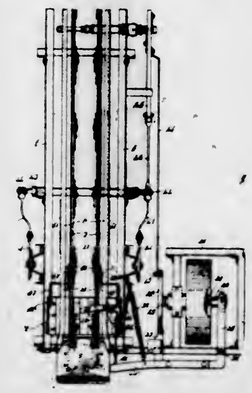
4. A washing machine comprising a guideway; pivoted reciprocatory pawls for sliding articles along said guideway; jets arranged to inject cleansing fluid into said articles feeding along said guideway; and upwardly tapering tubular carriers sliding along and readily removable from or insertible onto said guideway and arranged to support and receive cans or the like thereon, each of said carriers being provided at one side with a laterally extending support adapted to receive and support a can cover, there being an opening in the carrier under said support giving access to said cover, substantially as described.

1,336,569. CARGO-STOP. HARRY D. LATHROP, Chicago, Ill. Filed June 20, 1918. Serial No. 240,940. 10 Claims. (Cl. 105—369.)



1. A cargo stop comprising an elongated member; a longitudinally shiftable jaw on said member adapted to protrude from one end thereof; and manually operable means for shifting said jaw into and out of operative positions, said means comprising a lever pivotally connected with said member and having an operative connection with said jaw, whereby pivotal movement of said lever effects shifting movement of said jaw, said lever being adapted to be rocked past dead center to lock the same in operative position, substantially as described.

1,336,570. CAN-WASHING MACHINE. HARRY D. LATHROP and WALTER H. PAULSON, Chicago, Ill.; said Paulson assignor to said Lathrop. Filed Apr. 24, 1919. Serial No. 292,497. 15 Claims. (Cl. 193—58.)



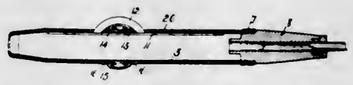
1. A can washing machine comprising a can support, and means for intermittently feeding cans along said support; means for starting operation of said can feeding means; and automatic means for stopping said feeding means after one feeding operation, substantially as described.

1,336,571. METHOD OF AND MEANS FOR BINDING THE EDGES OF REED FABRIC AND THE LIKE. MARSHALL B. LLOYD, Menominee, Mich. Filed May 28, 1917. Serial No. 171,432. 2 Claims. (Cl. 155—43.)



2. As a new article of manufacture a woven fabric of reed-like character having an edge portion bounded by a metallic strip, a portion of which is folded longitudinally so as to inclose the fabric edge portion, said folded strip portion being reversely folded along its edge to form a rounded edge portion, and the inclosed fabric and folded strip portion being folded back upon the fabric.

1,336,572. FOUNTAIN-PEN. CHARLES A. LUCK, Toledo, Ohio, assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Jan. 22, 1919. Serial No. 272,480. Divided and this application filed May 21, 1919. Serial No. 298,710. 5 Claims. (Cl. 120—46.)



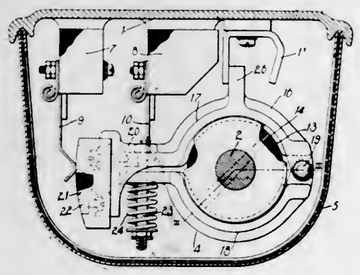
5. In a fountain pen, a barrel having inner and outer telescoped shells in releasable threaded engagement and having openings in their sides adapted to be placed in register, a pen point and ink-bag carrying section fitted into the inner end of the inner section, and ink-bag compressing means having a portion projecting through said opening and operable when in one position of its movement to lock the sections against relative turning movements.

1,336,573. ACETYLENE-GAS GENERATOR. JOHN D. ALTTRELL, Benton Harbor, Mich., assignor to Service Carbide Lamp Company, Terre Haute, Ind., a Copartnership. Filed Feb. 19, 1919. Serial No. 277,991. 3 Claims. (Cl. 48—25.)



1. An acetylene generator comprising a housing adapted to contain carbid and having a gas discharge orifice, a container for water in the bottom of said receptacle, a reciprocable element mounted in the top of said water receptable and adapted to be projected therefrom, a lamp wick or the like mounted on said reciprocable member and adapted to be kept moist by capillary attraction, the carbid adapted to contact with the projecting portion of said wick for generating gas and means on said reciprocable element for sealing the water-chamber to prevent feed of water to the carbid chamber.

1,336,574. CONTROL APPARATUS. PAUL L. MARDIS, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 31, 1914. Serial No. 869,570. Renewed Aug. 26, 1919. Serial No. 320,048. 2 Claims. (Cl. 200—9.)



2. In a controller, the combination with a rotatable main drum, of an auxiliary split drum of greater radius than said main drum being rotatively associated therewith, resilient means located near the periphery of said auxiliary drum for frictionally causing said auxiliary drum to rotate with said main drum, contact members associated with said drums, the contact members of said main drum being adapted for relatively low-potential circuits, and the contact members of said auxiliary drum being adapted for relatively high-potential circuits, and means for limiting the movement of said auxiliary drum relatively to said main drum.

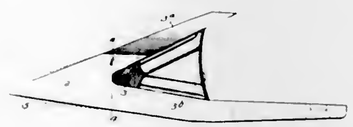
1,336,575. SELF-OILING HANDLE FOR DIESTOCKS. ROY V. NEWSHAM, Seattle, Wash. Filed May 31, 1919. Serial No. 300,805. 4 Claims. (Cl. 10,126.)

1. An automatic oiling device for diestocks and like tools, comprising a hollow handle adapted to serve as an oil storage reservoir, a closure for the inner end of this handle having an oil pump cylinder, a delivery pipe connecting said cylinder with the point where the oil is to be used and a weight free to move by gravity within



said handle and having a tip forming a piston adapted to enter the pump cylinder to expel its contents, and means for adjustably controlling the length of stroke of the pump piston.

1,336,576. METHOD OF PRODUCING DIGGING-TEETH. WESLEY G. NICHOLS, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 5, 1918. Serial No. 248,237. 4 Claims. (Cl. 29—148.)



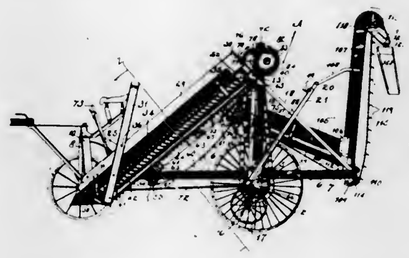
1. The improvement in the art of producing tapered articles of manganese steel, requiring strength and hardness in use, which consists in casting a blank or workpiece of approximately the ultimate form desired but with an excess of metal that develops thereon an increased thickness relative to that of the ultimate article, and with the excess of metal distributed so that the increase of thickness is greater toward the thin end of the article, and then forging the work-piece, at a suitable temperature, to reduce it to the ultimate form and improve the texture of its metal.

1,336,577. BUTTONHOLE-TAPE. CHARLES E. OATHOUT, Cleveland, Ohio, assignor to The Kaynee Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 21, 1919. Serial No. 291,516. 5 Claims. (Cl. 2—57.)



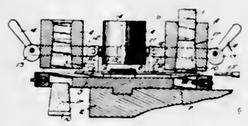
1. A button-hole tape formed from a strip of material folded longitudinally to form three plies, a reinforcing strip between two of the plies and located adjacent one edge of the tape, and a series of spaced button-holes formed in the inner and one outer ply of the tape wholly beyond the reinforcing strip.

1,336,578. CORN-HARVESTING MACHINE. ANDERS OLSON and SWAN HANSON, Galesburg, Ill. Filed June 9, 1917. Serial No. 173,902. 3 Claims. (Cl. 56—105.)



1. In a corn harvesting machine, the combination of a frame, pairs of guide plate arranged in spaced relation at the opposite sides of the frame for receiving corn stalks therebetween, a supporting worm arranged beneath each pair of plates to engage and support the stalks at opposite sides of the machine, ear snapping reels arranged lengthwise above each pair of plates for removing ears from the stalks and adapted to project the ears toward the intermediate portion of the frame, and a single hopper arranged longitudinally between the pairs of plates for receiving the detached and projected ears.

1,336,579. PRESS FOR SALT BLOCKS AND THE LIKE. HERBERT D. OXLEY, Chicago, Ill. Filed July 30, 1919. Serial No. 314,319. 15 Claims. (Cl. 100—50.)

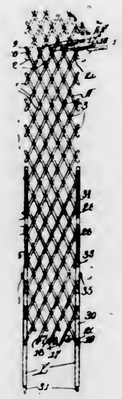


1. In a press, a table and a mold carried thereby, the table and mold having alined perforations, a removable bottom for the mold inserted between the latter and the mold, and means for forcing the bottom toward the mold.

15. In a press, a plunger, a rotatable table having its axis parallel to but spaced from the axis of the plunger, four equivalent tubular molds carried by the table and spaced equidistantly about the axis of the table and each adapted to aline with the plunger of the press, each mold having its lower end raised above the table; and two relatively transverse slides carried by the table and extending radially thereof, each slide having end portions adapted to aline with one or the other of two of the molds according as the slide is in one or the other of two operative positions, one of the slides having an arched medial portion clearing the other slide.

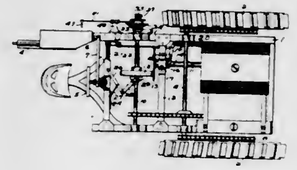
1,336,580. TRELLIS. GEORGE T. PARR, St. Paul, Minn. Filed Feb. 3, 1917. Serial No. 146,493. Renewed Feb. 27, 1920. Serial No. 361,722. 5 Claims. (Cl. 47—12.)

1. In a trellis or flower guard, comprising, a series of bars pivoted together to form a toggle lever action, said bars being adapted to be folded into a compact closed position or extended to form a lattice work, said bars being made up sectionally and having means on either



end of each section for pivotally connecting the bars of one section with the bars of another to increase the size of said trellis.

1,336,581. TRACTOR. OTTO L. PLETTNER and WILLIAM H. LOWE, Continental, Ohio, assignors to The Continental Tractor Company, Continental, Ohio, a Corporation of Ohio. Filed Apr. 10, 1919. Serial No. 289,159. 1 Claim. (Cl. 74—26.)

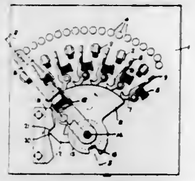


In a tractor, a shaft, a friction wheel located on the shaft, a friction disk co-acting with the friction wheel for driving the shaft, a lever for shifting the friction disk to and away from the friction wheel, a spring member connected to the end of the lever for moving the friction disk toward the friction wheel, a second lever, a link connecting the second named lever to the first named lever for moving the friction disk away from the friction wheel, a toggle joint connected to the friction wheel and to the frame of the tractor, the second named lever connected to the toggle joint for shifting the friction wheel along the shaft and across the face of the disk upon rotation in a direction at right angles to the rotation of the second named lever to shift the friction disk.

1,336,582. CONTROLLER. THOMAS S. PUKERED, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 5, 1916. Serial No. 101,767. 14 Claims. (Cl. 200—14.)

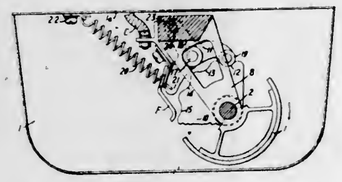
1. In combination, a plurality of resistors, a plurality of relatively movable members for controlling the resistors, means for positively connecting said members

for simultaneous movement in opposite directions, and a member adapted to be continuously operated to actuate



first one member to control one resistor and then another member to control another resistor.

1,336,583. CONTROL APPARATUS. LYNN G. RILEY, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1915. Serial No. 54,342. 15 Claims. (Cl. 200—17.)



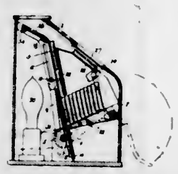
15. In a controller, the combination with a control drum and a coöperating contact finger rotatably mounted thereon, of a notched member movable with said drum, and a pawl adapted to engage said notched member and having an outwardly extending arm loosely connected to said finger.

1,336,584. ARRANGEMENT FOR LETTER-FILES AND THE LIKE. SÖREN RINGER, Copenhagen, Denmark. Filed Mar. 26, 1917. Serial No. 157,390. 2 Claims. (Cl. 129—16.8.)



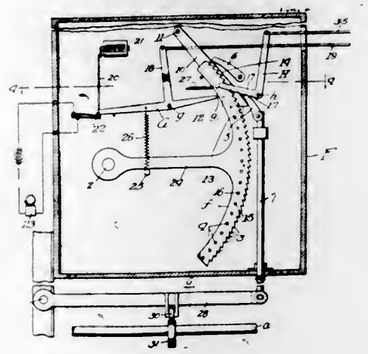
1. A file, comprising a set of expansible consecutively indexed file containers having each a front and back wall, and tabs protruding one from each of said walls, the tab on the front wall of each folder being provided with an exposed index character and an indicator sign normally covered by the tab on the back wall of the preceding folder.

1,336,585. SIGN MECHANISM. CHARLES ROBERTS, Newark, N. J. Filed June 5, 1919. Serial No. 301,884. 5 Claims. (Cl. 40—78.)



1. In sign mechanism, a series of magazines arranged in a row and adapted to hold character blocks, the floor of said magazines being in inclined position, a slide adapted to raise the lowest row of character blocks in said magazines to a point above the top of the adjacent row of characters in said magazines, said slide being adapted to return to a point below the lowest point of the row of character blocks held in said magazines, means for reciprocating said slide, and subject them to a changed plane, inclined chutes down which said character blocks are adapted to slide, stops in said chutes adapted to hold said character blocks in said chutes and means for withdrawing said stops and permitting the said character blocks to slide into said magazines.

1,336,586. BATCHOMETER. NILS M. ROSENDAHL, Winthrop Harbor, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Nov. 24, 1916. Serial No. 133,257. 30 Claims. (Cl. 83—73.)



18. In combination with a rotary mixer, a controlling device, mechanism operated by the mixer to automatically control said device upon the completion of a pre-determined number of rotations of said mixer, to indicate that the batch is finished, a charging hopper for said mixer, means to operate said hopper, and means operated by movement of said hopper into charging position to automatically restore said device to condition for control thereof by said mechanism.

1,336,587. INCANDESCENT-ELECTRIC-LAMP HOLDER. PIERRE MAX RAOUL SALLES, Cauderan, France. Filed Feb. 18, 1918. Serial No. 217,838. 2 Claims. (Cl. 173—328.)

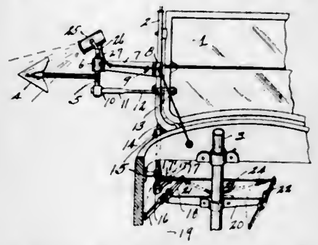


2. In a holder for electric incandescent lamps a combined wire gripping and terminal piston holding member comprising a sleeve having contracted open ends, a pair of oppositely directed flanged pistons therein, and a spring intermediate of said pistons and adapted to press each of them outwardly, one of said pistons having a transverse passage and the sleeve having lateral holes alinable with said passage for the purpose set forth.

1,336,588. AUTOMOBILE-SIGNAL. WILLIAM SCHIERDING, Spokane, Wash. Filed May 19, 1919. Serial No. 298,252. 2 Claims. (Cl. 116—46.)

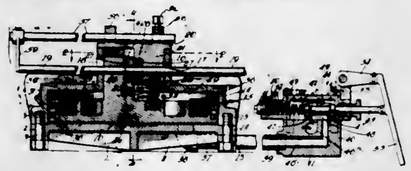
1. The combination with the windshield post and fixed bracket, of a signal arm having a vertically arranged

shaft journaled to revolve therein, a yoke at the top of the shaft and an illuminating lamp pivoted in the yoke, a pinion on the lower end of the shaft, a rack bar en-



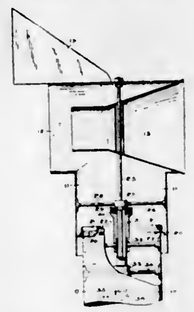
gaging the pinion, a crank shaft and an arm thereon pivoted to the rack bar, a second crank arm and an actuating lever connected thereto.

1,336,589. ROD-CUTTER. JOHN E. SCHMIDT and CLYDE E. MCARTHUR, Chicago, Ill. Filed Jan. 9, 1920. Serial No. 350,345. 6 Claims. (Cl. 81—201.)



6. In a machine of the class described, the combination with a casing having at one of its ends a reduced cylindrical extension provided with diametrically disposed openings in its wall, of a cross-sectionally segmental projection extended into said extension and fixed therein, said projection having in its flat face a die seat and an opening leading from said seat in register with one of the openings in said extension, a piston movably located in the casing and having a cross-sectionally segmental projection located between the first named projection and the wall of said extension and having in its flat surface a die seat to register with the die seat in the first named extension, the projection on the piston having an opening in register with the other opening in said extension, an apertured die detachably located in each of said die seats, a spring interposed between the inner end of the first named projection and the piston, resilient buffers located on the inner surface of the piston, and means to reciprocate the latter.

1,336,590. ROOF-VENTILATOR JOINT. CLARENCE C. SHIPP, Indianapolis, Ind. Filed Jan. 28, 1919. Serial No. 273,588. 3 Claims. (Cl. 98—3.)

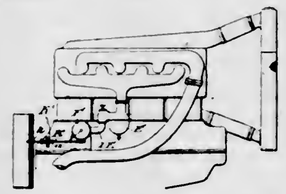


2. A ventilator comprising an air exhaust duct, a revoluble hood overlapping the adjacent end of said duct, yieldable means yieldingly moving under the influence of the draft through the duct for closing the space between the adjacent walls of the overlapped ends of the duct and hood, and means for preventing accidental displacement of said yieldable means.

1,336,591. FILTERING COMPOUND. LEO WASHBURN SHULL, Toledo, Ohio, assignor to The Allen Filter Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 1, 1916. Serial No. 128,856. 6 Claims. (Cl. 210—9.)

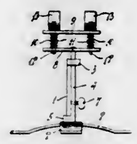
1. A filtering compound consisting of a porous, homogeneous substance formed of kieselguhr, asbestos, and a third element, all reduced to a fine powder and intimately mixed, and then subjected to a high temperature, said third element being a material which is chemically changed and reduced in bulk by said heat, whereby the compound is rendered porous.

1,336,592. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. WILLIAM H. SIBBALD, Minot, N. D., assignor to Edward E. Clement, Washington, D. C. Filed Jan. 18, 1917. Serial No. 143,029. 2 Claims. (Cl. 123—25.)



1. A gas power plant comprising an interval combustion element with a moving part driven thereby, a source of fuel supply therefor, a mixer or carbureter adapted to mix said fuel with air and supply it to the internal combustion element as a properly proportioned explosive mixture, means for carrying off the exhaust gases from said internal combustion element, a receptacle containing water arranged to be heated by said exhaust means, an air intake opening or nozzle for said carbureter, and a rotatable screen or filter journaled concentrically with said air inlet and surrounding the same so that all the air passing into the inlet must pass through the screen, said screen dipping into said water receptacle so as to be constantly moistened by water therein, and a shaft for said screen or filter connected through gears with the said driven moving part, with means interposed in said shaft responsive to abnormal resistance to movement on the part of the screen, as for example when the water is frozen, and automatically acting thereupon to disconnect the screen from the driven moving part, so as to permit the starting of the engine without rotating the screen or filter until the heated exhaust gases shall have liquefied the water.

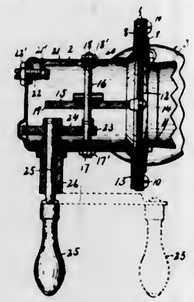
1,336,593. MILK-CLAW SUPPORT. STEPHEN BENJAMIN SIFLEET, Pirongia, Waikato, New Zealand. Filed Oct. 1, 1917. Serial No. 194,135. 3 Claims. (Cl. 248—3.)



1. Milk claw support, comprising a standard, a rod adjustable thereon, supporting means carried by said rod at the upper end thereof, a plate supported by said means for vertical movement relatively thereto, yielding means

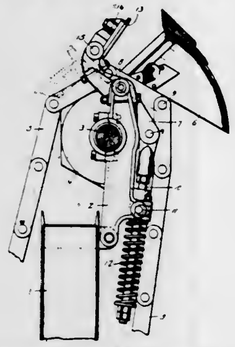
between said supporting means and said plate resisting the downward movement of the latter, and horns projecting upwardly from said plate.

1,336,594. HORN. WILLIAM SPARKS, Jackson, Mich., assignor to Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed Dec. 4, 1918. Serial No. 265,260. 1 Claim. (Cl. 116—144.)



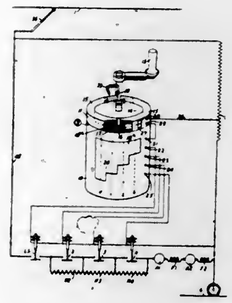
A signaling device comprising a diaphragm, a casing extending rearwardly therefrom, a bearing member extending through one side of the casing and adjustable therethrough in a direction substantially parallel with the diaphragm and means for locking the said bearing member in any of its predetermined adjusted positions, said bearing member having a substantially conical bearing seat, said casing formed with an opening through its wall at a point substantially opposite the said bearing member, a sliding bar mounted within the casing and having an opening registering with said opening through the casing and of less length than the opening through the casing, a second bearing member extending through an opening in the casing and adapted for longitudinal movement therein, said second bearing extending through the opening in said sliding bar and substantially fitting the said opening and secured to the bar and formed with a conical bearing seat, means for locking the second named bearing in any longitudinal adjusted position with reference to the casing, means secured to the sliding bar and extending through the casing for adjusting said bar and thereby said second named bearing, a shaft having its opposite ends tapered and mounted in respective conical seats in said bearing members, a diaphragm actuator mounted on the said shaft and means for driving the sbaft.

1,336,595. EXCAVATOR-BUCKET CLEANER. CHARLES E. STAHL, Winthrop Harbor, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Sept. 23, 1918. Serial No. 255,217. 4 Claims. (Cl. 37—24.)



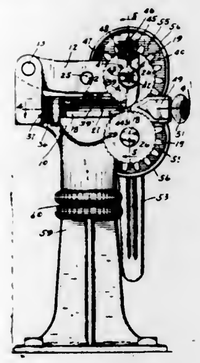
1. In an excavator cleaner for scraping out the loads from the buckets, a pivoted arm, a joint forming a normally inactive pivotal point in said arm, a cleaner plate supported thereby, the axis of said joint being parallel with the axis about which said arm swings, a breaking connection to normally hold said joint rigid, adapted to release the joint and permit the cleaner plate to swing backward out of the way when struck by an unyielding object.

1,336,596. CONTROL APPARATUS. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed June 18, 1913, Serial No. 774,394. Divided and this application filed Sept. 27, 1916. Serial No. 122,444. 1 Claim. (Cl. 200—9.)



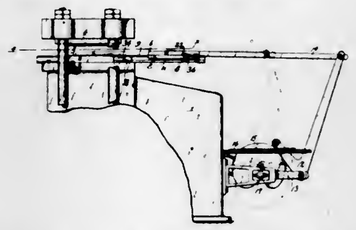
A controller comprising a main contact-carrying drum having a main cylindrical portion and a projecting cylindrical portion of smaller diameter than said main portion, an auxiliary contact-carrying drum comprising two coöperating semi-cylindrical parts each of a thickness equal to the difference between the radii of said cylindrical portions, a pair of bolts for connecting said semi-cylindrical parts together, a spring for each bolt adapted to cause continual frictional engagement between said main drum and said auxiliary drum, means for adjusting the tension of said springs, a projecting lug secured to said auxiliary drum, and a U-shaped stop member for engaging said lug to restrict the movement of said auxiliary drum relatively to said main drum.

1,336,597. LEATHER-SKIVING MACHINE. GEORGE ORVILL TERRY, Minneapolis, Minn., assignor to Economy Shoe Machine Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 25, 1919. Serial No. 319,568. 13 Claims. (Cl. 69—13.)



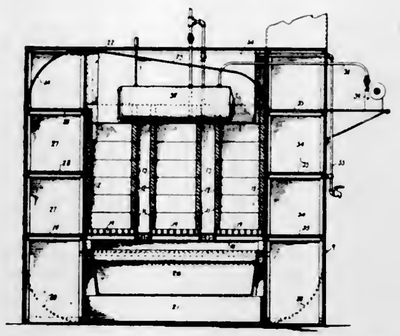
6. In a skiving machine, a rock-bolt, a blade secured to the intermediate portion of the rock-bolt, a rockable sleeve bearing for one end of the rock-bolt, a fixed bearing for the other end of the rock-bolt, and an adjusting nut having screw-threaded engagement wtih the rock-bolt and held by the fixed bearing against axial movement, said adjusting nut being arranged to impart an endwise movement to the rock-bolt to carry the cutting edge of the blade into engagement with the sleeve bearing as a positioning stop therefor and to cause said sleeve bearing to partake of the rocking movement thereof.

1,336,598. SHEET-MOVING MECHANISM. CHARLES E. THROOP, Buffalo, N. Y. Filed Sept. 11, 1918. Serial No. 253,554. 6 Claims. (Cl. 271—85.)



5. A sheet moving mechanism comprising a gripper which is adapted to grasp and release the sheet and which has a relatively movable jaw provided with a gripping face adapted to engage one side of the sheet, a gage adjacent to the rear end of said gripping face and an inclined guide face in rear of said bearing face, and the relatively movable jaw having a gripping face adapted to coöperate with the gripping face of said fixed jaw and a slide face engaging said inclined guide face, a reciprocating carrier on which said fixed jaw is mounted, means for moving the movable jaw lengthwise of said fixed jaw, and means for actuating said carrier comprising a rock lever, a link connecting said lever with said carrier, and a rotary cam engaging said lever.

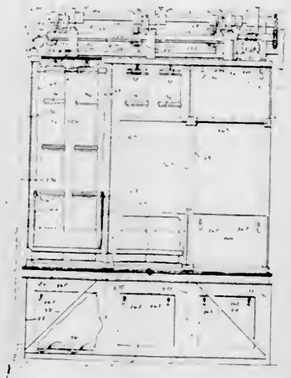
1,336,599. COOKING DEVICE. GEORGE TSEKURAS, Philadelphia, Pa. Filed Oct. 18, 1919. Serial No. 331,688. 1 Claim. (Cl. 126—14.)



A cooking device including a casing; fuel-containing means within said casing; means providing ovens at opposite sides of said fuel-containing means; and a flue having a portion communicating with said fuel-containing means, said flue extending from said fuel-containing means downwardly behind the ovens on one side and then upwardly behind the ovens on the opposite side; substantially as described.

1,336,600. FILTERING-MACHINE. HENRY W. TUTTLE, Des Plaines, Ill. Filed Sept. 28, 1917. Serial No. 193,703. 19 Claims. (Cl. 183—35.)

1. A filtering machine comprising a filtering chamber, a plurality of filtering devices in said chamber, there being inlet and outlet openings in said chamber to permit the passage of fluids or gases through said chamber, said filtering devices being connected to the inlet openings of the chamber so that fluids or gases passing into the chamber must pass into the filtering devices, means for



agitating synchronously all of the filtering devices in said chamber, and means for moving a reverse current of pure air through said chamber and said filtering devices while said filtering devices are being agitated for the purpose of cleaning the filtering devices.

1,336,601. DIRIGIBLE BALLOON. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 9, 1916. Serial No. 130,380. 7 Claims. (Cl. 244—3.)



1. In a balloon, a framework including an upper and a lower longitudinally extending member defining an elevational stream line for the balloon; and gas containing envelops connecting said upper and lower members of the framework, said envelops having a common longitudinally extending partition wall.

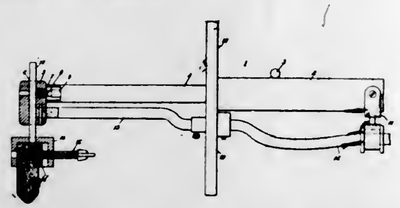
1,336,602. HEADLIGHT. OVERTON WINSTON, Minneapolis, Minn. Filed Sept. 5, 1916. Serial No. 118,341. 2 Claims. (Cl. 240—41.)



1. In a headlight, the combination with a concave reflector and two light sources therein, one approximately

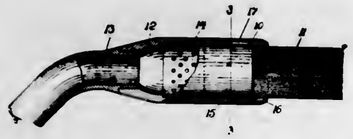
at the axis and one above the axis thereof, of a light dimming surface interposed between said light sources and the upper portion of the reflector and extended between lines drawn in a vertical plane from one of said light sources, one to the upper front edge of the reflector and the other approximately to the point on the upper inner portion of the reflector where the reflected rays are not brought below the horizontal or parallel to the axis of the reflector, when the light source is shifted from the axial to the vertically offset point.

1,336,603. ELECTRODE - ADAPTER. RALPH BAKER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,794. 5 Claims. (Cl. 219—8.)



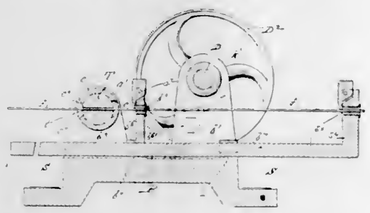
4. The combination with a metallic-electrode holder having an electrode-receiving opening of relatively small diameter, of a carbon adapted therefor comprising a holder having a receiving chamber of relatively large diameter, and means for suspending the last-mentioned holder from the first.

1,336,604. IRRIGATED BRUSH. ROLLYN H. BAKER, Dayton, Ohio. Filed Nov. 10, 1917. Serial No. 201,268. 2 Claims. (Cl. 15—51.)



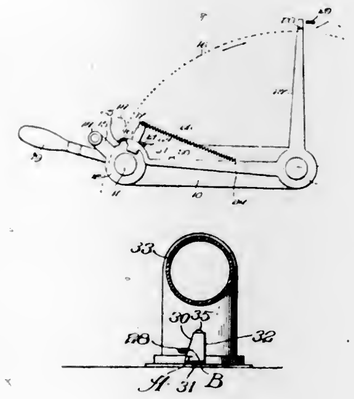
1. In an irrigated brush, a body carrying bristles, said body having a hollow chamber at the rear with perforated sides and an aperture threaded to receive a hollow handle whereby water may be supplied to the chamber, a jacket surrounding the body and attached thereto back of said perforated portion, there being an annular space between the body and the jacket for the flow of water to irrigate the brush, and radial members connecting the body and jacket so as to support the latter and maintain the annular space.

1,336,605. AUTOMATIC WIRE-BLANK-CUTTING APPARATUS. JOHN BECKER, Brooklyn, N. Y. Filed July 31, 1919. Serial No. 314,527. 2 Claims. (Cl. 140—143.)



1. Automatic wire blank cutting mechanism of the character designated, comprising a drive shaft, a thrust crank arm rigidly secured thereto, a pitman pivotally connected with said thrust crank arm and with a wire feed slide, said wire feed slide, means on said slide for clutching and forwarding a wire during the advance thrust of the slide and yielding to said wire during the retractile thrust thereof, means mounted on a stationary part for clutching said wire during the retractile movement of the slide and for yielding to the wire during the advance thrust of the slide, a stationary trunnion formed with an eye hole for the wire, a rock lever fulcrumed on said trunnion and formed with a shearing edge adapted to sever the part of the wire protuberant beyond said trunnion, and a cam arm on the drive shaft timed to rock said rock lever at the termination of the forward thrust of the feed slide, for the purpose described.

1,336,606. BRAKE OR STOP DEVICE FOR SOUND-REPRODUCING MACHINES. RAYMOND T. BELL and LOUIS MANDEL, Chicago, Ill., assignors to The Mandel Corporation, a Corporation of Delaware. Filed June 6, 1919. Serial No. 302,318. 13 Claims. (Cl. 74—46.)

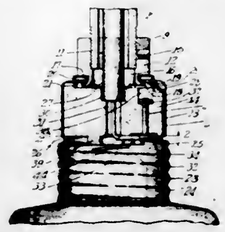


1. In combination with a rotatable part of a phonograph or the like, a pivotally mounted brake therefor, a shoulder connected with the brake, a trigger, said trigger having a shoulder, means tending normally to render the brake effective, the said shoulder on the brake being adapted to engage the shoulder on the trigger to maintain the brake ineffective, and a controlling element separate from the brake and the said trigger and movable about the brake pivot, and adapted to operate both the brake and the trigger in one direction and separately from each other.

S. In combination with a rotatable part of a phonograph or the like, a brake or stop device therefor, the latter embodying a tripping element for the stop, and a traveling finger having an inclined active edge, said tripping element projecting into the path of movement of the active edge of the finger to be set by the finger when the tone arm is raised and whereby when the tone arm is lowered said tripping element will be actuated by said edge at a point later in the travel of the stylus with respect to the record from the point at which it was set, due to vertical pivoting of the tone arm at its base.

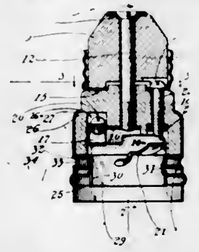
1,336,607. ELECTRIC-LAMP SOCKET. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 29, 1915. Serial No. 5,055. 3 Claims. (Cl. 173—358.)

1. A lamp socket comprising an insulating base having a substantially central opening therethrough for a feed wire, a center contact supported by said insulating base, said center contact comprising a U-shaped portion be-



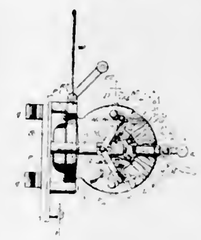
tween the arms of which the said wire is to extend and a wiring terminal supported by said center contact.

1,336,608. ELECTRICAL CONNECTING DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 13, 1918. Serial No. 253,883. 2 Claims. (Cl. 173—344.)



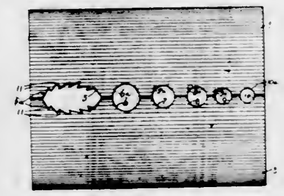
1. An electrical connecting device comprising a plug and a socket, each having suitable contacts, an insulating base, and a casing inclosing a portion of the device and having a skirt extending beyond the socket, said socket having an outturned edge and said casing being indented to form a shoulder, the edge of the socket being confined between the insulating base and said shoulder.

1,336,609. SIGNAL DEVICE FOR MOTOR-VEHICLES. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1914, Serial No. 861,015. Renewed Oct. 13, 1919. Serial No. 330,530. 4 Claims. (Cl. 116—43.)



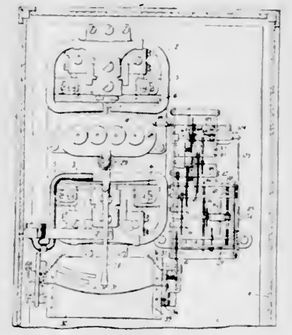
4. A vehicle signal comprising a member mounted for movement in a definite path, a movable latch member located in the path of movement of said first member and moved thereby, for engaging and detaining said first member, time-controlled means for actuating said latch to release said member, and power means for returning said first member to normal position.

1,336,610. SUPPLEMENTARY JAWS FOR VISES. GEORGE W. BORCHERS, San Jose, Calif. Filed Jan. 3, 1919. Serial No. 269,477. 1 Claim. (Cl. 81—38.)



A pair of coöperating supplementary jaws adapted to be vertically and longitudinally positioned in a vise, each jaw comprising an oblong plate having a narrow flange projecting outwardly from its lower edge, a wider flange projecting outwardly from its upper edge, a recess formed in its inner surface and extending throughout the length thereof and provided with teeth extending longitudinally thereof throughout its length, and a plurality of recesses of unequal dimensions formed in said inner surface in vertical relation to said first mentioned recess and extending throughout the width of said inner surface, each of said last mentioned recesses being smaller at its upper end than at its lower end, and one of said recesses having teeth formed therein extending throughout its length and projecting toward one end of said jaw, all of the recesses in one jaw being positioned so as to register with the corresponding recesses in the other jaw.

1,336,611. ELECTRICAL MEASURING INSTRUMENT. WILLIAM M. BRADSHAW and WALTER G. MYLIUS, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 12, 1915. Serial No. 39,379. 18 Claims. (Cl. 234—5.5.)

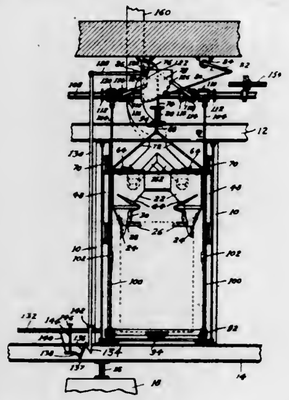


17. In a recording meter, the combination with a record sheet and a marking device, of a meter mechanically connected to the marking device for directly actuating the same, means for advancing the record sheet a predetermined distance at the end of a definite interval of time and for disconnecting the marking device from the meter after the record sheet is advanced to permit it to return to its initial position.

1,336,612. BAG-FILLING MACHINE. ROBERT L. CALLAHAN, Louisville, Ky. Filed Aug. 5, 1918. Serial No. 248,260. 3 Claims. (Cl. 226—55.)

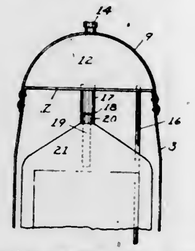
1. A machine for filling bags comprising a carriage, yielding means tending to hold said carriage upwardly, two hoppers mounted on said carriage, means whereby said hoppers may be adjusted toward or from each other,

means for delivering material to both hoppers, means located on the bottoms of said hoppers for holding the



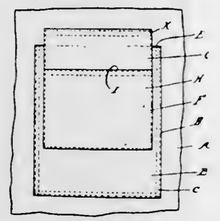
top of a bag so as to receive material from both hoppers, and means for moving the bag up and down as it is being filled.

1,336,613. RADIATING SYSTEM FOR INTERNAL-COMBUSTION MOTORS. CLARK CARSON, Davenport, Iowa. Filed June 25, 1917. Serial No. 176,731. 16 Claims. (Cl. 123—174.)



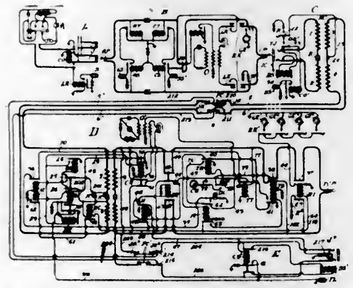
1. In a radiating system for internal combustion motors, an air-tight reservoir, a radiator, a pipe extending from said reservoir a short distance vertically directly into said radiator.

1,336,614. OVERALLS-POCKET. DAVID S. CARTER, Detroit, Mich., assignor to Larned, Carter & Company, Detroit, Mich., a Corporation of New York. Filed May 4, 1918. Serial No. 232,433. 2 Claims. (Cl. 2—15.)



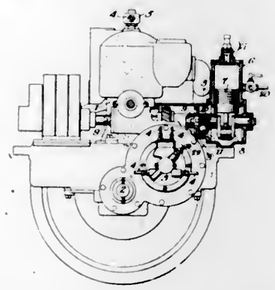
1. In a garment, the combination with a stationary pocket having an open upper end, of a swinging pocket stitched to said garment above said upper end and normally closing the same, said swinging pocket having an outer width slightly less than the inner width of said stationary pocket and insertible therewithin, the stitching for securing said swinging pocket to said garment running substantially the full width of said swinging pocket.

1,336,615. TOLL TRUNK-CIRCUIT. ORMOND F. CASSADAY, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 6, 1915. Serial No. 65,216. 30 Claims. (Cl. 179—43.)



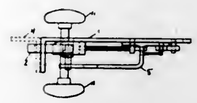
1. In a telephone system, subscribers' telephone lines, a trunk circuit for extending connections from one exchange to another exchange, a link circuit for connecting one of said subscriber's lines to said trunk circuit, a trunk operator's telephone, and means controlled over the two sides of the trunk circuit in parallel for automatically connecting said operator's telephone with said trunk line.

1,336,616. STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. NIELS ANTON CHRISTENSEN, Milwaukee, Wis. Original application filed June 1, 1911, Serial No. 630,630. Divided and this application filed May 8, 1916. Serial No. 96,011. 5 Claims. (Cl. 60—16.)



1. In starting mechanism for internal combustion engines the combination of a compressor adapted to be actuated by the engine, a reservoir connected with the compressor, a clutch for connecting the compressor with the engine, a pressure chamber connected with the reservoir and provided with a movable part operatively connected with the clutch and having a restricted leak opening, and a valve controlling the connection between said chamber and reservoir.

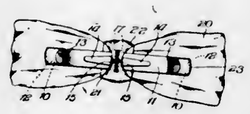
1,336,617. DOOR-LOCK. JACOB CODOS and BENJAMIN MAY, New York, N. Y. Filed Nov. 23, 1917. Serial No. 203,494. 1 Claim. (Cl. 70—31.)



A door lock comprising a casing, a bolt pivoted on a fulcrum which is integral with the casing, a concentric

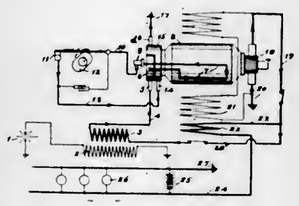
arm for engaging a keeper and a pin attached to the bolt near the fulcrum; a vertically slidable member which is operated by a key, and which has a horizontal slot one end of which is curved downward for engaging above mentioned pin, and a tumbler carried by the slidable member for engaging the vertically slidable member, at either end of its stroke.

1,336,618. NECKTIE-FASTENER. RACHEL COOPERMAN, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,091. 5 Claims. (Cl. 24—49.)



1. A necktie holder embodying a pair of elongated superposed bowed members secured together adjacent their longitudinal centers, one of the members being shaped to form a transverse central groove, portions of the said member on opposite sides of the groove being struck up to form alined ribs outside of the said groove and extending in directions lengthwise of the member, said ribs being spaced for a considerable distance from each other in a direction lengthwise of the member.

1,336,619. ELECTRIC SYSTEM. JOHN L. CREVELING, Tucson, Ariz., assignor to Gould Coupler Company, a Corporation of New York. Filed Oct. 7, 1916. Serial No. 124,355. 10 Claims. (Cl. 290—41.)



6. The combination with ignition means, of current affected means for operating the same, an armature winding for supplying current to said means, a storage battery operating to assist said winding, and means whereby ignition current from said battery magnetically affects said armature winding.

1,336,620. STATIONARY JACK. WILLIAM JULIUS EMIL DAMKER, Dunellen, N. J. Filed May 22, 1919. Serial No. 298,932. 8 Claims. (Cl. 254—86.)



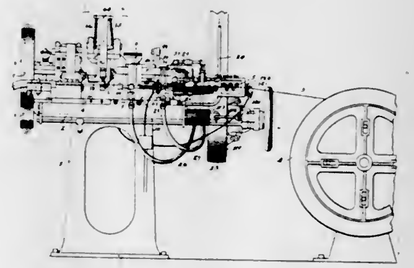
1. A jack adapted to be permanently attached to a vehicle shaft comprising lazy tongs, an upper casing rigid to said shaft having one end of said lazy tongs pivoted therein, a lower casing having the lower end of said lazy tongs pivoted therein, a cable secured to the lower end of said lazy tongs and wound about the ends of sucessive members thereof and extending from the upper part thereof so that said jack is extended on pulling the upper end of said cable.

1,336,621. BROACH. AUGUSTUS F. DONALDSON, Toledo, Ohio, assignor to The Bunting Brass & Bronze Company, Toledo, Ohio, a Corporation of Ohio. Filed May 24, 1919. Serial No. 299,509. 7 Claims. (Cl. 90—33.)



1. In a broach for forming bearings, a pair of ridges having a cutting edge, a bead and a shank, the bead located intermediate the cutting edge and the shank, the diameter of the bead being greater than the diameter of the cutting edge and the shank.

1,336,622. FEEDING MECHANISM. JOHN F. GAIL, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Original application filed Feb. 7, 1916, Serial No. 76,577. Divided and this application filed Feb. 3, 1917. Serial No. 146,375. 7 Claims. (Cl. 164—87.)

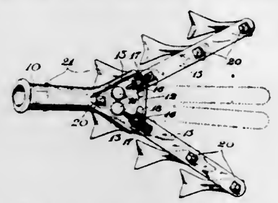


1. In a machine for making edge bands, the combination with a main traveling carriage, of an auxiliary carriage slidably mounted thereon, a vertically reciprocating punch member carried by the carriage and adapted to perforate the band and means for holding the punch in engagement with the band during the forward travel of the carriages.

1,336,623. ADJUSTABLE WEEDER. JOHN GILSON, Sr., Port Washington, Wis., assignor to J. E. Gilson Company, Port Washington, Wis., a Firm consisting of John Gilson, Sr., and John E. Gilson, Jr. Filed Nov. 22, 1917. Serial No. 203,361. 1 Claim. (Cl. 97—41.)

A weeder, comprising a handle socket having an angularly positioned fan-shaped head, arms pivotally mounted on the head, clamping screws on the arms fitting in slots

of the head for binding the arms in angular adjustments, and teeth secured to the head and to the arms and project-

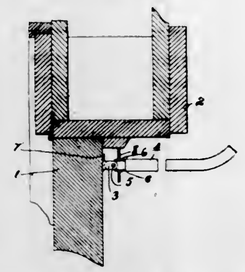


ing downwardly and curving forwardly with their front ends provided with broad recessed knife edges the path of each tooth overlapping the path of the next tooth.

1,336,624. PROCESS OF RETREADING TIRES. SOLOMON H. GOLDBERG, Chicago, Ill. Filed May 23, 1919. Serial No. 299,138. 1 Claim. (Cl. 154—14.)

A process of building up a tire consisting in applying a rubber cement containing a vulcanizing agent to the outer periphery of a tire body and while the solution is still wet applying comminuted fibrous material thereto, applying a breaker strip and then tread, said breaker strip and tread having been treated with a rubber cement containing a vulcanizing agent, securing the parts together and vulcanizing them whereby a reinforced fabric is obtained between the breaker strip and tire body.

1,336,625. ELECTRIC GARAGE-PROTECTOR. GUSTAVE J. GUMM, Superior, Wis. Filed Apr. 24, 1916, Serial No. 93,299. Renewed Feb. 10, 1920. Serial No. 357,746. 1 Claim. (Cl. 200—54.)



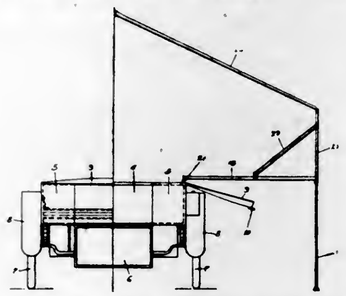
A device of the type described, applied to a garage door and the frame thereof, comprising an angle member secured to the door, a curved member or sector pivotally connected to said member, both being electrical conductors, said sector being bent adjacent its inner end at which point is provided an insulator, a hanger, which is a conductor, suspended from the door frame in such manner that the curved member extends therethrough and contacts the same whenever said door is in open position, said insulator normally contacting the hanger when the door is in closed position, the sector and hanger adapted to close a circuit and cause a signal when in contact with each other, the hanger and insulator adapted to break the circuit in contact relation with one another.

1,336,626. TOY CONSTRUCTING MATERIAL. ALBERT NEELY HALL, Oak Park, Ill. Filed Nov. 2, 1915. Serial No. 59,309. 4 Claims. (Cl. 46—35.)



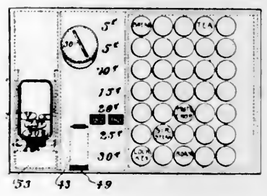
1. In toy constructing materials, flexible unit members, angular shaped spring wire fasteners, and means for holding a plurality of such members in detachable pivoted relation by means of said fasteners so that said means may be placed in various positions as desired with respect to each other.

1,336,627. TRAILER FOR CAMPING PURPOSES. WILLIAM J. HANNAM, Springfield, Ohio. Filed Mar. 15, 1919. Serial No. 282,778. 7 Claims. (Cl. 296—23.)



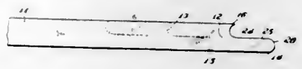
1. In a vehicle of the character described, a body having sides, longitudinally extending strips secured to the inner surface of each of said sides along the upper edge thereof, each of said sides also having below said strips blocks of substantially the same dimensions as said strips, a pair of bed frames, hinges for connecting each of said frames to said blocks, said hinges consisting of leaves connected to the bed frames and to the blocks respectively and an intermediate leaf hinged thereto, the intermediate leaves for one of said bed frames being shorter than the intermediate leaves for the opposite bed frame so that when folded into said body one of said bed frames will lie upon the other.

1,336,628. COIN-CONTROLLING REGISTER. JAMES W. HUGHES, Haddon Heights, N. J., assignor to Hughes-Lippincott Company, a Corporation of New Jersey. Filed June 1, 1915. Serial No. 31,629. 6 Claims. (Cl. 235—26.)



1. In a device of the character stated, an order board having two faces, in combination with a plurality of keys indicating the various articles for sale and extending through the board and beyond its two faces so as to be operable from either face, means for registering when the keys are operated from one face only of the board and without registering when operated from the other face of the board, and devices for permitting only one key to be operated at any one time.

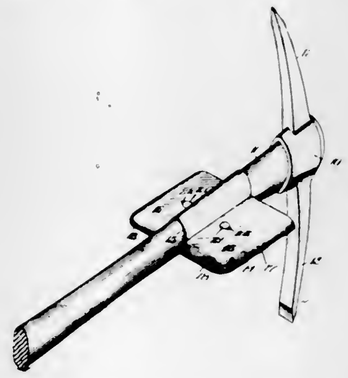
1,336,629. FASTENING DEVICE. EUGENE U. KIMBARK, Evanston, Ill. Filed July 15, 1919. Serial No. 311,028. 4 Claims. (Cl. 229—78.)



1. As an article of manufacture, a metallic fastener for envelops comprising a body having two fastening

tongues extending in opposite directions but offset so as not to be in the same line and having their ends trimmed, the edges of said body opposite the tongues being formed complementary to the ends of said tongues.

1,336,630. GUARD FOR DIGGING IMPLEMENTS. GEORGE W. KIRKPATRICK, Rochester, N. Y. Filed June 15, 1916. Serial No. 103,708. 3 Claims. (Cl. 125—40.)



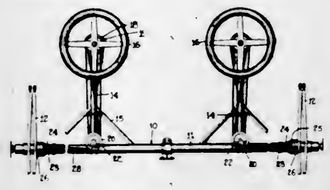
1. A guard for digging implements comprising a body portion having a pair of wings and means for detachably securing it to the handle of the implement with the wings projecting laterally therefrom in a plane substantially parallel with the axis thereof, said securing means comprising a yieldable clamp embracing and firmly engaging the handle.

1,336,631. COLD-CHISEL. GEORGE A. KISSINGER, Alhambra, Calif. Filed Mar. 31, 1919. Serial No. 286,616. 2 Claims. (Cl. 287—27.)



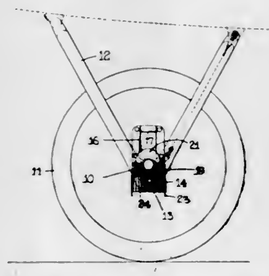
1. A cold chisel and the like, comprising a head having proper seats in its front face for holding arms, a handle, holding arms connecting with the handle and seating in the arm seats of the head, a coil spring carried on the holding arms and a brace fitted against the rear face of the head and bearing upon the spring in such a manner that the pressure of the spring opposes the hold of the arms seated upon the head.

1,336,632. AEROPLANE-CONTROL MECHANISM. HENRY KLECKLER, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Aug. 10, 1917. Serial No. 185,520. 6 Claims. (Cl. 244—29.)



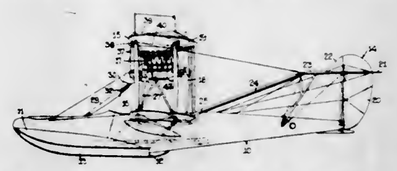
4. In aeroplane control mechanism, a shaft, separate columns erected upon said shaft, a control wheel carried by each column, a control lead for each wheel, guides for the control leads arranged to approximately parallel the paths of the control leads with the columns and shaft axis respectively, and an interconnection between said wheels correspondingly arranged in approximate parallelism with the the columns and shaft axis respectively.

1,336,633. LANDING-GEAR FOR AIRCRAFT. HENRY KLECKLER, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Jan. 30, 1918. Serial No. 214,540. 15 Claims. (Cl. 244—2.)



1. In a landing gear for aircraft, spaced landing gear struts, a cross connection between the struts, shock absorber elastics laced transversely beneath the struts and over the cross connection, guides for the cross connection rigidly supported at the foot of the struts, and means on the cross connection and engaging the guides to prevent axial displacement of the cross connection.

1,336,634. FLYING-BOAT. HENRY KLECKLER, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,541. 5 Claims. (Cl. 244—2.)



1. An airplane comprising a body, an aerial supporting surface arranged transversely thereof, an empennage, and a brace for the empennage extended at its forward end into the body at or near the point of intersection of the supporting surface.

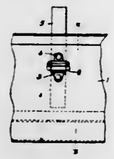
1,336,635. SANCTUARY-LAMP. EDWARD J. KNAPP, Syracuse, N. Y., assignor to E. J. Knapp Candle and Wax Co., Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 28, 1919. Serial No. 293,147. 5 Claims. (Cl. 67—23.)



1. In a candle lamp; a cup shaped base and a candle having its lower end in said base, the candle having the

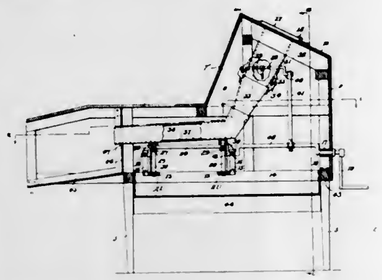
lower portion of its wick of greater thickness than the remainder of the wick which thickened portion of the wick is located in that part of the candle at the bottom of the cup shaped base, substantially as and for the purpose described.

1,336,636. DROP STAKE-LOOP. WILLIAM J. KNOX, Dubois, Pa. Filed Dec. 4, 1919. Serial No. 342,346. 6 Claims. (Cl. 105—391.)



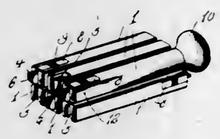
1. In combination with the wall of a car provided with a perforation extending therethrough, a support adjacent the perforation, and a stake loop slidingly engaging the support and adapted when not in use to be carried by such support on the outer side of the car wall.

1,336,637. ASH-SIFTER. ADAM KOLAR, Millfield, Ohio. Filed Sept. 24, 1919. Serial No. 326,041. 5 Claims. (Cl. 83—60.)



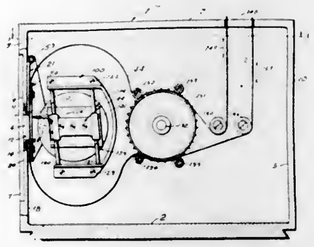
1. An ash sifter comprising a casing, a hopper within the casing, a chute in communication with the hopper, an ash delivery chute beneath the hopper and ash chute, a cinder delivery chute communicating with the end of the ash chute, means for shaking the ash chute, said means including a crank shaft journaled longitudinally of the casing, a laterally shifting support for the ash chute and connections between said support and the crank shaft, roller bearings carried by said supports and blocks carried by said casing for engagement with said roller bearings to guide said supports during their movements.

1,336,638. COLLAPSIBLE CANE. FRANK KUTWICZ, Regina, Saskatchewan, Canada. Filed Mar. 8, 1919. Serial No. 281,451. 1 Claim. (Cl. 135—47.)



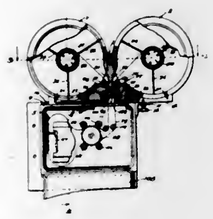
A cane of the character described, comprising a plurality of sections, hinges connecting said sections together, the said hinges being so arranged that the adjacent sections may be folded one upon the other, a blade extending from one end of each section, the opposite end of each section having recesses therein for receiving said blades, registering grooves formed in the ends of each section, and locking members slidably mounted in one of said grooves and engaging in the opposing section groove for locking said sections in open position.

1,336,639. FILM-MOVING MECHANISM. JOHN E. LEONARD, Los Angeles, Calif., assignor to The National Motion Picture Camera Company, Los Angeles, Calif., a Corporation of California. Filed May 19, 1919. Serial No. 298,293. 16 Claims. (Cl. 88—18.4.)



1. In a film moving mechanism, a swinging aperture frame having an opening adapted to register with an exposure aperture, a film gripping and aperture back plate removably connected to the swinging aperture frame and forming a back for the exposure aperture, and steel pads yieldingly mounted through the film gripping and aperture back plate to engage the perforated margins of the film and press the margins against the swinging aperture frame.

1,336,640. FILM-MAGAZINE. JOHN E. LEONARD, Los Angeles, Calif., assignor to The National Motion Picture Camera Company, Los Angeles, Calif., a Corporation of California. Filed May 19, 1919. Serial No. 298,295. 17 Claims. (Cl. 242—71.)



1. A film magazine having, in combination, a base adapted to be applied to a camera box and having an up-standing central body with opposite quadrantal, concave seats, independent film casings removably mounted upon the seats in coplanar relation, film spools in the film casings, means whereby a film mounted upon one spool may be passed downwardly through the base and through a camera and back through the base to the spool, and means in the base for excluding light from the casing.

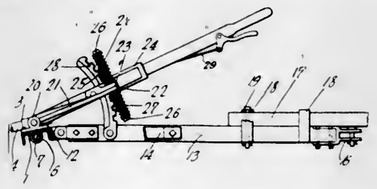
1,336,641. THEATER-CHAIR. VICTOR F. LINKE, West New York, N. J. Filed Sept. 11, 1917. Serial No. 190,727. 6 Claims. (Cl. 155—13.)

1. A seat, rear supports and forward supports projecting from opposite sides of said seat, a chair frame having back tracks for guiding the rear seat supports up and down, seat tracks for guiding the forward seat supports backward and forward, and arm support tracks



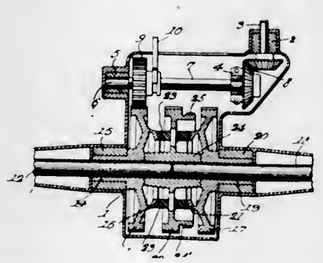
branching from the seat tracks intermediate the length thereof, extending upwardly and forwardly therefrom and adapted to receive the forward seat supports.

1,336,642. HARROW. WILLARD O. LONG, Mansfield, Ohio. Filed July 7, 1919. Serial No. 309,139. 3 Claims. (Cl. 55—19.)



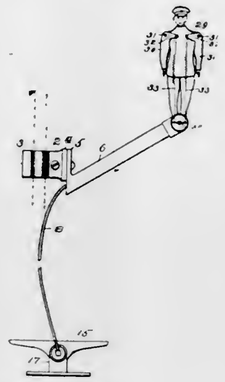
3. The combination with a channeled beam, of axles seated in the ends of the beam, wheels upon the axles and at the ends of the beams, a tongue hingedly connected to the beam, harrow sections, means for securing said sections to the beam and to the outer ends of the axles to swing upwardly and downwardly with the beam, means for tilting the beam, and coöperating means upon the tongue and said beam tilting means for holding the beam against movement relative to the tongue.

1,336,643. DIFFERENTIAL FOR SELF-PROPELLING VEHICLES. JESSE R. LOWRY, St. Joseph, Mo. Filed July 5, 1917. Serial No. 178,798. 1 Claim. (Cl. 180—17.)



In a device of the class described, a casing; alined shafts journaled therein; outer gear wheels secured to the shafts and having side gears; an intermediate gear wheel journaled on the inner ends of the shafts between the outer gear wheels and carrying a laterally projecting drum; pinions journaled on the intermediate gear wheel and coöperating with the side gears to form a differential; a second shaft journaled in the casing and disposed parallel to the first specified shafts; a pinion rotatable with the second shaft and slidable therealong into engagement with the peripheries of any of the gear wheels; means for sliding the pinion on the second shaft; a lever fulcrumed on the casing; a brake strap engaging the drum and operated by the lever; and means for rotating the second shaft.

1,336,644. AUTOMOBILE-SIGNAL. ARVILLE E. MCCURDY, Washington, D. C. Filed June 6, 1918. Serial No. 238,587. 2 Claims. (Cl. 116—52.)



1. An automobile signal or direction indicator, consisting in the combination with the windshield frame, of a rigid support, a clamp adjustably connected to said support, a sleeve formed with and extending outward from said plate, an elbow connected to the outer end of said sleeve, a pair of shaft mountings secured in said elbow and disposed at a right angle, an indicator shaft journaled in one of said mountings, an indicator on the outer end of said shaft, a bevel gear wheel on the inner end of said shaft, a bevel gear meshing with said first named gear, a flexible shaft connected with the latter bevel gear, and a foot mechanism for moving said flexible shaft to operate the indicator, said foot mechanism consisting of a support, a sleeve on said support, apertured plugs fitting the ends of said sleeve, a shaft mounted in said plugs and having its ends extended, means connecting the flexible shaft to one of said ends, means connecting the foot pedal to the other ends, retaining devices on the pedal and one of said plugs, and a spring in the sleeve for controlling the engagement and release of said retaining devices.

1,336,645. WAGON-REACH. JOE S. MACK, Calipatria, Calif. Filed Oct. 13, 1919. Serial No. 330,475. 2 Claims. (Cl. 280—117.)

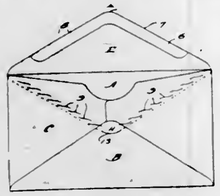


1. A wagon reach construction comprising a front reach member fixed to the front axle and having a tongue extending backwardly, a slider connecting the rear ends of the front hounds and the rear end of the tongue, rear reach members fitting above and below the tongue and slider, a pin connecting the forward ends of the rear reach members to the forward end of the tongue, spacing blocks between the rear reach members, and means for securing the rear reach members to the spacing blocks.

1,336,646. SAFETY-ENVELOP. JOHN J. MENDENHALL, Clearwater, Fla. Filed Aug. 16, 1916. Serial No. 115,295. 2 Claims. (Cl. 229—81.)

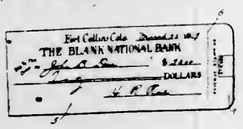
1. An envelop comprising a front and back, said back including a main body and a flap provided with an adhesive inwardly from its free margins adapted to overlie the said main body of said back and be secured thereto by said adhesive to seal the envelop, the portion of the said main body of said back concealed by the said portion of

said flap carrying the adhesive, provided with a series of cuts extending cross-wise the general line of the series of cuts, margins of said flap converging toward each other,



and the said main body of said back provided with a slot adjacent the point of convergence of the said margins of said flap and following the lines of the same when the flap is in a sealed position with respect to said main body.

1,336,647. BANK-CHECK. JOHN L. MILLER, Fort Collins, Colo. Filed May 27, 1919. Serial No. 300,031. 1 Claim. (Cl. 283—9.)



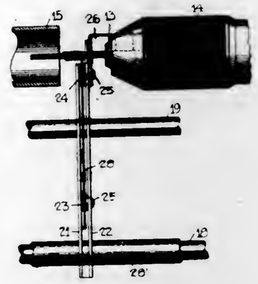
In a negotiable instrument, a blank, a tab secured to one end thereof provided with a weakened line, the blank being provided with spaces at one end thereof for indorsements, the inner face of the tab being adapted to contain identification marks, the tab being adapted to be folded upon the weakened line to overlie the first indorsement and to have its free end permanently sealed to the blank below the first indorsement, the tab being severed along the weakened line by the bank teller to expose the first indorsement.

1,336,648. FRUIT-PICKER. SAMUEL BENJAMIN MORISON, Redlands, Calif. Filed July 2, 1919. Serial No. 308,238. 2 Claims. (Cl. 56—335.)



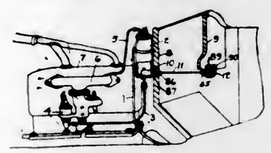
1. A fruit picker comprising a main handle; a sliding handle attached to the main handle; a head attached to the main handle; a loop attached to the head; a cloth conducting tube attached to the loop; fingers extending from the head over the opening of the loop; a rigid cutting jaw mounted below the fingers; a pivoted cutting jaw mounted below the fingers in opposition to the rigid cutting jaw; and a connection between the sliding handle and the pivoted cutting jaw.

1,336,649. WIRE WRAPPING AND WINDING MACHINE. EDWARD T. MUSSON, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed May 18, 1916. Serial No. 98,348. 7 Claims. (Cl. 28—6.)



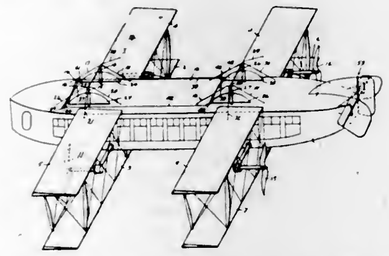
1. A machine for wrapping a flexible wire or the like flexible element with a wire or the like comprising a means to grip and rotate the flexible wire together with means mounted in advance of the gripping means to envelop and prevent the formation of kinks in the flexible wire during its rotation.

1,336,650. AUTOMOBILE-LOCK. CARRIE W. NICKERSON, Los Angeles, Calif. Filed Mar. 4, 1918. Serial No. 220,263. 3 Claims. (Cl. 251—7.)



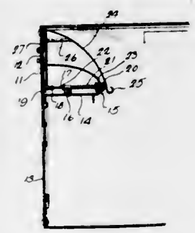
2. The combination with a vacuum tank containing the operative parts of a vacuum system, of a combination lock mounted in the tank upon the bottom and having a vertical discharge with its inlet opening above the lock and having a valve for controlling the discharge and the operating stem of the lock extending horizontally through the side of the tank.

1,336,651. AIRSHIP. HERMAN NORDMARK, San Pedro, Calif. Filed Mar. 5, 1919. Serial No. 280,792. 2 Claims. (Cl. 244—14.)



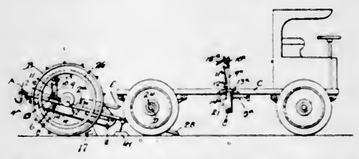
1. An airship including a car, upper and lower lifting planes extending from both sides of said car near the forward end thereof, upper and lower lifting planes extending from both sides of said car near the rear end thereof, vertical and horizontal rudders at the rear end of said car, propellers mounted at both sides of said car forwardly and between said forward upper and lower planes, propellers mounted at both sides of said car rearwardly and between said rear upper and lower planes, a pair of vertical longitudinal stabilizing blades mounted on top of said car between the forward upper planes and the rear upper planes respectively, and means for turning said stabilizing blades.

1,336,652. ELECTRIC MAIL-INDICATOR. FRANK J. OTTO, Detroit, Mich. Filed Apr. 1, 1918. Serial No. 226,031. 4 Claims. (Cl. 200—57.)



2. A circuit closer adapted for use with a mail receptacle having a nail receiving opening, a slidable rod, a contact carried thereby, a stationary contact, a spherical member carried by the rod, resilient plates engaging opposite sides of the spherical member, a guide member to insure engagement of mail with the spherical member when entering the box whereby to urge the rod to close the contacts, said spring plates separating to permit the spherical member to pass by, and resilient means engaging the rod to urge the same to a position to open the contact.

1,336,653. MOTOR-TRUCK TRACTOR. WILLIAM PATERSON and MAY H. PATERSON, Oakland, Calif. Filed Mar. 4, 1919. Serial No. 280,681. 8 Claims. (Cl. 180—16.)



1. In a motor truck tractor the combination of a chassis supporting in part a motor truck, tractor wheels carried by the chassis, yokes slidably mounted upon the tractor chassis, adapted to receive the axle of a motor truck, and spring actuated pawls that lock the motor truck axle within said yokes.

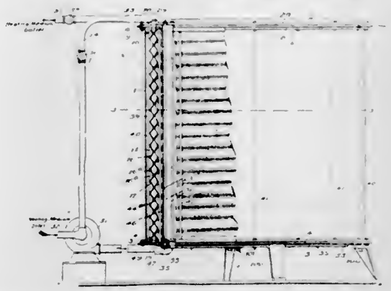
1,336,654. OIL-BOLT. ALBERT D. RAY, Cleveland, Ohio. Filed June 28, 1919. Serial No. 307,475. 12 Claims. (Cl. 64—27.)



1. An oil bolt having a parti-spherical end and an oil chamber with a filling passage extending through said end of the bolt, and a parti-spherical pivoted spring pressed cap adapted to close the entrance to said filling passage.

1,336,655. APPARATUS FOR TREATING LIQUIDS. WILLIAM O. REW, Eureka, Calif., assignor of one-half to Chester Earl Gray, Eureka, Calif. Filed Aug. 24, 1915. Serial No. 47,142. Renewed Feb. 20, 1920. Serial No. 360,068. 12 Claims. (Cl. 257—243.)

1. In a fluid treating device, a pair of nested members providing a path for the liquid to be treated, the greatest diameter of the inner member being less than the smallest diameter of the outer member, means to maintain the members in spaced apart relation, a spiral corrugation on



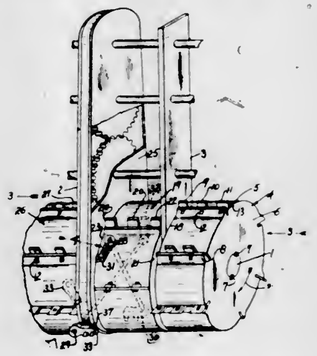
one of said members separating said path into a continuous enlarged spiral passage and a restricted passage between each of the convolutions of the spiral passage.

1,336,656. TORPEDO-SHOOTING DEVICE. SAVA ROGOZEA, Paris, France. Filed July 13, 1916. Serial No. 109,112. 4 Claims. (Cl. 102—29.)



1. The combination of a sleeve adapted to be secured to the mouth of the barrel of a gun, the forward end of said sleeve having a slight tapering boss, and a torpedo having a tubular prolongation extending to the rear, the rear end of said prolongation being slit and adapted to slide on the said sleeve, and a ring sliding on said slit end and adapted to cause the latter to engage closely the periphery of the aforesaid sleeve, whereby the projectile can only escape from the sleeve by causing the said end and the ring to be dilated by the aforesaid boss of the sleeve.

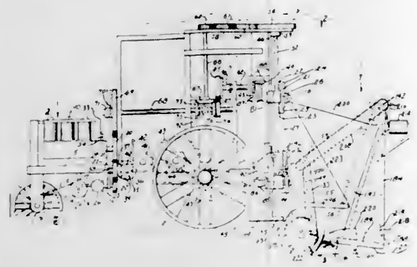
1,336,657. CUTTER FOR EXCAVATORS. VALDEMAR SCHMIDT, Los Angeles, Calif. Filed July 7, 1919. Serial No. 309,202. 5 Claims. (Cl. 37—29.)



5. A cutter comprising the combination with a support having flat faces, of a shaft mounted through the support, cutter bodies fixed upon the shaft and having flat faces engaging the flat faces of the support, an under-cutter shaft mounted through one cutter body and through the main shaft, a second under-cutter shaft mounted through the other body and through the main shaft, the under-cutting shafts being at right angles to each other and on opposite sides of the support and close to the support, under-

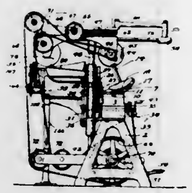
cutting heads fixed upon the ends of the under-cutting shafts, cutting teeth carried by the under-cutting heads, and rollers carried by the under-cutting heads and adapted to engage the sides of the support.

1,336,658. ROAD-MAKER, EXCAVATOR, AND GRADER. VALDEMAR SCHMIDT, Los Angeles, Calif. Filed July 7, 1919. Serial No. 309,203. 8 Claims. (Cl. 37—24.)



1. A device of the class described comprising a carriage, a power plant mounted upon the carriage, gear trains connecting the power plant to the driving wheels for operating the carriage and to the steering wheels for guiding the carriage, cutting and elevating mechanism connected to the carriage to move up and down and to tilt sidewise or to allow the carriage to tilt, gear trains for moving the cutting and elevating mechanism up and down, means for tilting the cutting and elevating mechanism relative to the carriage, means whereby the carriage and cutting and elevating mechanism may be held in their tilted positions relative to each other or allowed to tilt freely, means whereby the elevated dirt may be delivered to wagons at either side, means for cutting a square face upon a bank, and means for under-cutting from both sides of the cutter support to remove the rib left between the cutters.

1,336,659. MACHINE FOR MAKING AEROPLANE-PROPELLERS. JAMES LEE SIMMONS, Washington, D. C., assignor of fifty-one per cent. to Thomas W. Buckey and twenty-four and one-half per cent. to William C. Nalle, Washington, D. C. Filed Sept. 12, 1917. Serial No. 191,057. Renewed July 23, 1919. Serial No. 312,832. 43 Claims. (Cl. 144—144.)



1. In an aeroplane propeller making machine the combination with a movable work support, of a cutting tool movable in a path transversely to the path of movement of the work support, a blade forming pattern for guiding the tool, said pattern being arranged to revolve on an axis transversely positioned to the path of travel of the work support, means for moving said work support, means for moving the cutting tool, and means for revolving the pattern.

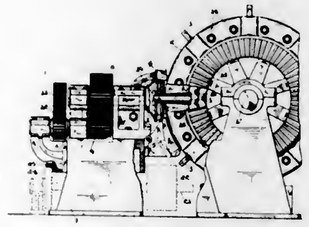
8. In an aeroplane propeller making machine the combination with a longitudinally movable work support of a reciprocating cutting tool movable in a path transversely to the path of movement of said work support, a pattern mounted on an axis transversely positioned to the path of travel of the work support for guiding said cutting tool, means for moving said work support, and means interconnected with the aforesaid means for reciprocating the cutting tool and revolving the pattern simultaneously.

28. A propeller making machine of the class described including in combination a bodily movable work supporting carriage, a cutting tool movable in a plane transversely to the path of movement of said supporting carriage, a rotatable blade forming pattern, a support for said pattern mounted transversely of the path of travel of the work supporting carriage and on an axis in the plane of movement of the cutting tool, means for bodily moving said supporting carriage, and means including an actuating lever interconnected with the aforesaid means for rotating said pattern.

31. A blade forming pattern for a propeller making machine comprising a body portion having an opening therein, and a volute surface arranged on the body portion.

33. A blade forming pattern for a propeller making machine comprising a body portion having longitudinally formed volute and circumferentially eccentric surfaces.

1,336,660. METAL BENDING AND FORMING MACHINE. FREDERICK L. H. SIMS, Toronto, Ontario, Canada, assignor to The Diaphone Signal Company, Limited, Toronto, Canada. Filed Nov. 30, 1917. Serial No. 204,692. 5 Claims. (Cl. 29—5.)



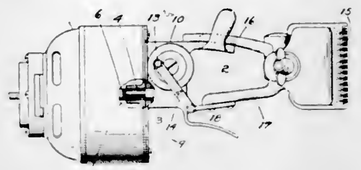
1. In a machine for forming bent slotted bolts, the combination of a pair of coöperating rolls journaled on parallel axes and each provided with a plurality of equally spaced dies at its periphery, each die having a circumferential half round groove formed in its face, a portion of each groove being offset toward the center of the roll to permit the metal of the bolt blank to be offset laterally according to the thickness of the slot to be formed in the bolt, the surface of each roll being sufficiently cut away behind each die to permit of the withdrawal of a formed bolt from between the rolls in a direction parallel to the axes of the rolls, when the said cut away parts of the rolls are in juxtaposition.

1,336,661. DESENSITIZED NITROGLYCERIN EXPLOSIVE. ALFRED A. STARRING, Kansas City, Mo., assignor to Benjamin Mossman, trustee. Filed Nov. 30, 1918. Serial No. 264,837. 2 Claims. (Cl. 52—3.)

1. An explosive composition including nitroglycerin and a desensitizing agent comprising carbon-tetrachlorid and an oil miscible with the nitroglycerin.

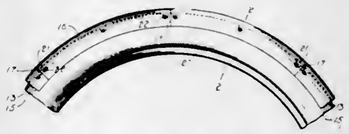
1,336,662. HAIR-CLIPPING DEVICE. GEORGE STOCKING, San Francisco, Calif. Filed May 2, 1919. Serial No. 294,159. 3 Claims. (Cl. 30—1.)

1. In a clipper, a driving unit, a driven unit, face plates on said units provided with registering openings and adapted to be releasably connected together, a shaft for the driving unit having its outer end terminating short of the face plate of said unit, and a shaft for the driven unit extending through the face plate of said



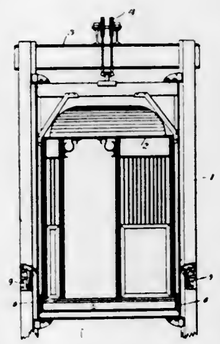
driven unit and releasably engaging the shaft of the driving unit.

1,336,663. PNEUMATIC TIRE. ELLIOTT M. STORY, Braintree, Mass. Filed Nov. 10, 1919. Serial No. 336,891. 1 Claim. (Cl. 152—17.)



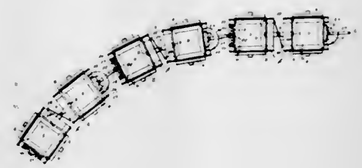
A tire shoe comprising a body having side portions and a thickened central portion, the external surface of which has a central transverse face and inclined side faces, said faces collectively forming a salient tread band seat, the inclined side faces of which join the outer surfaces of the side portions of the body, a flexible tread band, the internal surface of which has a central transverse face and inclined side faces, said faces collectively forming a reentrant internal surface fitting said salient seat and interengaged therewith to oppose lateral displacement of the tread band, the external surface of the tread band being convex and meeting the external surfaces of the side portions of the body, said central portion and tread band having coinciding transverse orifices extending substantially parallel with the central transverse faces thereof, the orifices in the tread band being provided with outwardly facing shoulders, and transverse bolts inserted in said orifices, and having clamping heads adjustable relatively to each other and bearing on said shoulders to clamp the inclined internal faces of the tread band against the inclined external faces of the body.

1,336,664. SAFETY ATTACHMENT FOR ELEVATORS. ROBERT LEE STUBBS, Charlotte, N. C., assignor to The Park Manufacturing Company, Charlotte, N. C. Filed Nov. 13, 1919. Serial No. 337,638. 3 Claims. (Cl. 187—73.)



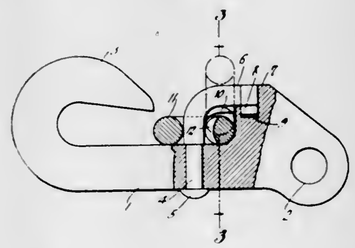
1. The combination with an elevator cage and a tooth thereon, of a spring pressed dog at one side of the path of said tooth, a catch for holding the dog under restraint, and means movable with said tooth for engaging and shifting the catch to release the dog when the cage ascends to a predetermined point.

1,336,665. WAGON-TRAIN. WALTER A. UNDERHILL and COURTNEY C. AVERY, Auburn, N. Y., assignors to The Eagle Wagon Works, Auburn, N. Y., a Corporation of New York. Filed Sept. 15, 1915. Serial No. 50,761. 2 Claims. (Cl. 280—33.2.)



1. A wagon train comprising composite wagons, each wagon being composed of a pair of two-wheeled carts, a bar pivoted to the opposing ends of the carts and means connecting the opposing ends of the carts extending from the front end of one cart on one side of the bar to the rear end of the other cart on the opposite side of the bar, and a coupling connecting the opposite ends of the composite wagons, said coupling comprising a bar pivoted to the opposing ends of the wagons, and means for holding the wagon coupling bar from pivotal movement relatively to one of the wagons, substantially as and for the purpose described.

1,336,666. BUTT-HOOK. WILLIAM G. VASEY, Lakeside, Oreg. Filed Aug. 18, 1919. Serial No. 318,215. 2 Claims. (Cl. 24—241.)

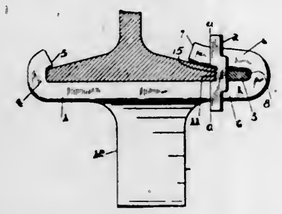


2. The combination with a hook having a shank and a shoulder formed thereon, of a bolt extending through the shank and adapted to receive a ring, said bolt extending at an angle to lock the ring between the bolt and shoulder at an angle to lock the ring between the bolt and shoulder, said shoulder having an opening, an enlargement formed on one end of the bolt and adapted to be positioned within the opening to prevent the displacement of the bolt, and means to permit movement of the ring with relation to the hook.

1,336,667. CLAMP. ALONZO H. WESTON and ROBERT H. PETERS, Buffalo, N. Y., assignors to John P. Northey and Gideon Grant, Toronto, Ontario, Canada. Filed Apr. 24, 1919. Serial No. 292,484. 9 Claims. (Cl. 189—35.)

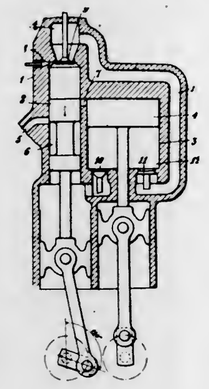
1. In a clamp, the combination of a reach bar engageable at one end with one edge of the flange of a structural metal member; jaws integral with the other end of the

reach bar adapted to engage opposite sides of the other edge of the flange; a downwardly extending abutment



formed integral with the reach bar; and means for forcing the said jaws into engagement with the flange.

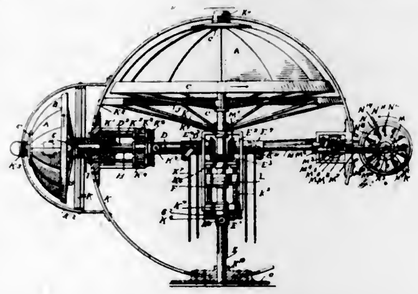
1,336,668. INTERNAL-COMBUSTION ENGINE OF COMPOUND TYPE. SVEN GUSTAF WIGELIUS and NILS WILHELM UHR, Gottenborg, Sweden. Filed Mar. 8, 1918. Serial No. 221,217. 6 Claims. (Cl. 60—15.)



1. In an internal combustion compound engine of the type wherein a high pressure cylinder is in communication with a low pressure cylinder, and wherein the high pressure piston controls the communication between said cylinders so as to cause an after-expansion in the low pressure cylinder upon closing this communication, means for introducing scavenging air to the cylinders at an excess pressure sufficient to prevent the creation of a vacuum during said after-expansion, the relation between the high pressure piston and low pressure piston being such that the high pressure piston closes the communication to the low pressure piston after the scavenging operation is finished.

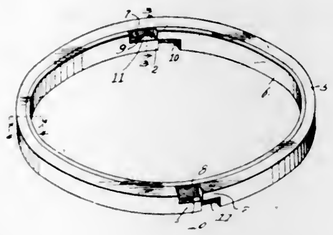
1,336,669. FLYING-MACHINE. CHARLES F. WILCOX, New York, N. Y., assignor of forty-nine one-hundredths to Albinus Wilcox, Kings county, N. Y. Filed May 18, 1917. Serial No. 169,449. 21 Claims. (Cl. 244—15.)

1. In a flying machine of the character described and having a rigid frame, a vertical shaft journaled in the frame, a winged wheel rotatable with the shaft, means for adjusting the wings while rotating around the shaft so that they will exert no pressure upon the air, or any desired pressure, without varying the speed of rotation, said winged wheel being disposed at the upper portion of the shaft, means whereby a car and motor are supported at the lower end portion of the shaft, a gear keyed upon the vertical shaft, a horizontal shaft, journaled in the frame, said horizontal shaft having a winged wheel mounted thereon and revoluble in a vertical plane, and means for adjusting the wings of the said wheel, a gear keyed upon the horizontal shaft, at one end and meshing with the gear keyed on the vertical shaft so that the horizontal shaft may be driven from the gear of the vertical shaft, and a second horizontal shaft disposed at an opposite direction from the first horizontal shaft,



journaled in the frame and geared to the vertical shaft; a steering wheel journaled in a yoke provided in the frame and geared to the second horizontal shaft, said steering wheel, having adjustable wings mounted therein and means for reversibly deflecting the said wings, substantially as shown and described, and for the purposes set forth.

1,336,670. PISTON-RING. OSCAR W. ANDERSON, Valley City, N. D. Filed Apr. 18, 1917. Serial No. 162,977. 1 Claim. (Cl. 74—109.)



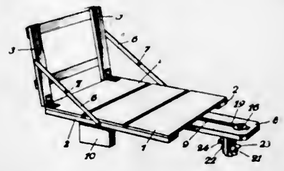
A piston ring construction comprising an outer ring beveled in cross section and having a lapped joint, an inner ring having a lapped joint, a locking pin rigidly secured to the thick portion of the outer ring, and projecting into the primary slot of the lapped joint of the inner ring, and holding the rings in such a manner as to prevent one from rotating upon the other, the outer ring having an outer cylindrical surface for making a tight closure against the wall of the cylinder with the entire surface of the ring, a primary side at right angles with the outer surface for making a tight closure with the wall of the annular groove of the piston in which the ring lies, a secondary side of less thickness than the primary side at right angles with the outer surface to secure the said ring from wedging between the piston and the cylinder and to preserve a uniform bearing surface of the ring with relation to the cylinder, a beveled inner cylinder ring fitted into and so coöperating with the bevel of the outside ring, under tension as to press the outside ring outward and laterally when the ring is placed in the annular groove of the piston, thereby pressing the faces of the lapped joint together under tension, whereby the lateral pressure will hold the faces of the lap together under tension and produce a leak-proof closure, the tension of the inner ring against the beveled surface of the outer ring automatically taking up wear on the outer ring and holding the surfaces of the lapped joint together under tension and pressure.

1,336,671. GOLF-CLUB. ALBERT BACKUS, Okmulgee, Okla. Filed Sept. 23, 1919. Serial No. 325,719. 3 Claims. (Cl. 46—4.)



1. A golf club including a hollow head, said head having a substantially straight striking face, said striking face having a plurality of openings, providing communication between the interior of the head and the atmosphere, said head having an opening in its upper surface, and an opening in its lower surface, and a handle secured to the head.

1,336,672. WINDOW-CLEANING ATTACHMENT. FREDERICK V. BANK, Cincinnati, Ohio. Filed June 27, 1919. Serial No. 307,045. 1 Claim. (Cl. 20—87.)



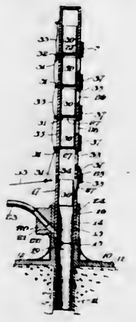
In a window seat attachment, a seat part for resting on the window sill, a foldable back attached thereto, a supporting slotted arm attached to said seat, retaining blocks toward the outward end of said seat part, a clamping device for engaging said slotted arm and for also engaging the sill underneath to tightly clamp the seat on the window frame, said clamping device formed of an angle iron and having one arm extending outward and provided with a clamping means, and also having a slotted arm extending downwardly and provided with an upwardly and downwardly sliding clamp piece and winged nut, all combined and operating as set forth.

1,336,673. FLUE-SCRAPER. BERNHARD M. BERNTSON, Chicago, Ill. Filed Apr. 24, 1919. Serial No. 292,341. 2 Claims. (Cl. 83—64.)



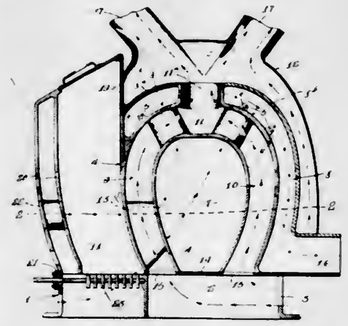
1. In a flue scraper, a plurality of strips each having a protuberance, a scraper-head having a plurality of recesses, and a securing member separate from said scraper-head and movable into and out of its securing position, the protuberances of said strips being seated respectively in said recesses while the contiguous parts of said strips lie against said scraper head, said securing member being removably seated against the opposite sides of said strips from their protuberances and coacting with said scraper head to clamp the strips and hold their protuberances in said recesses.

1,336,674. LOADING DEVICE. CHARLES A. BRAWN, Philadelphia, Pa. Filed June 7, 1918. Serial No. 238,637. 14 Claims. (Cl. 86—21.)



4. A magazine adapted to be positioned over a hole; means for releasing explosive material contained in said magazine to permit it to drop into said hole; and sound transmitting means in communication with said hole, and extending to a position remote from said hole whereby the sound produced by the stopping of said explosive material, after passing within the hole, can be heard, substantially as described.

1,336,675. FURNACE. WILLIAM MARSH BUTLER, Syracuse, N. Y. Filed Sept. 25, 1917. Serial No. 193,184. 7 Claims. (Cl. 126—99.)



1. A furnace comprising a fire and fuel chamber, a combustion chamber, front and rear upwardly extending air conduits, the front conduits being interposed between the combustion chamber and the fire and fuel chamber and having spaced apart portions forming passages connecting said chambers, a second combustion chamber at the rear of the rear conduits, each front and rear conduit uniting at their upper ends and having a common outlet, a combustion chamber extending on the top of the air conduits above the passages connecting the fire chamber and the combustion chamber, and on the rear of the rear air conduits, and passages connecting the combustion chambers near the top of the inner combus-

tion chamber, substantially as and for the purpose described.

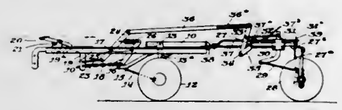
2. A furnace comprising sections having upwardly extending air conduits, a combustion chamber in the rear of the air conducts, a fuel chamber in front of the air conduits, the sections being arranged side by side and the combustion chamber of each section being open at its sides and alined with the combustion chamber of the next section, the lower end portions of the air conduits forming the rear wall of the fuel chamber and being spaced apart forming horizontally extending passages connecting the fuel chamber and the combustion chamber, the upper portions of the air conduits above the passages lying against each other, substantially as and for the purpose described.

3. A furnace comprising sections having front and rear upwardly extending air conduits, and a combustion chamber between the front and the rear air conduits, the sections being arranged side by side and the combustion chamber of each section being open at its sides and alined with the chamber of the next section, the front air conduits having their lower end portions arranged to form the rear wall of the fuel chamber and being spaced apart to form horizontal passages connecting the fuel chamber and the combustion chamber, and the fuel chamber located in front of the lower end portions of the front air conduits and in front of the front ends of said passages, the portions of the front air conduits above said passages lying against each other, substantially as and for the purpose specified.

4. In a furnace the combination of upwardly extending air conduits, a combustion chamber in the rear of the air conduits, a fuel chamber in front of the air conduits, a grate in the combustion chamber at the lower ends of the air conduits, the air conduits being formed with passages connecting the fuel chamber and the combustion chamber, the lower portions of the air conduits, which have the passages therein, forming the back wall of the fuel chamber, substantially as and for the purpose set forth.

5. A furnace comprising a plurality of upright sections arranged flatwise one against the other, and a fuel chamber in front of the section, each section being formed with central and outer combustion chambers open at their sides into like combustion chambers of the next chamber, front and rear air conduits between the inner and outer combustion chambers, the air conduits being closed at their sides and having openings in their lower and upper ends for the inlet of cold air and the outlet of heated air, and passages in the sides of each section contiguous to the next sections for connecting the inner and outer combustion chambers and for connecting the fuel chamber with the inner combustion chamber, substantially as and for the purpose described.

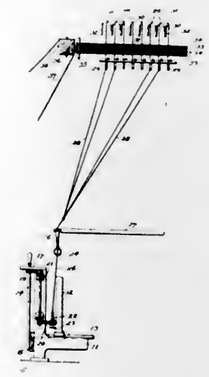
1,336,676. TANDEM DISK HARROW. SHERMAN W. CADY, Auburn, N. Y., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 22, 1918. Serial No. 263,732. 10 Claims. (Cl. 55—83.)



1. In a harrow, a frame, disk gangs carried thereby, sliding draft connections operable by the draft power for angling the gangs, and a resilient connecting means between the sliding connection and the gangs.

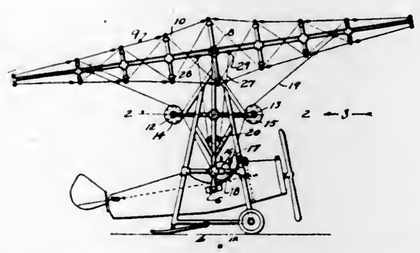
2. In a harrow, a frame, disk gangs carried thereby, sliding draft connections operable by the draft power and controllable from a point outside the harrow for angling the gangs, and a resilient connecting means between the sliding connections and the gangs.

1,336,677. SAFETY STOP-MOTION FOR JACQUARD LOOMS. LOUIS SIMPSON CANNON, Rosemary, N. C. Filed Oct. 5, 1916. Serial No. 123,914. 7 Claims. (Cl. 139—52.)



1. A device for actuating the stop mechanism of a Jacquard loom comprising, in combination, a griff; a control hook normally disengaged from said griff and connected with the stop mechanism of a loom; and a control needle operable by the ordinary jacquard pattern cards for carrying said hook into engagement with said griff when said needle is forced back by a misplaced pattern card.

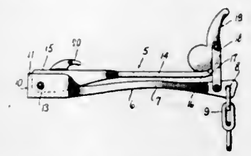
1,336,678. AEROPLANE. BERT CARLISLE, Santa Ana, Calif. Filed Jan. 14, 1919. Serial No. 271,098. 2 Claims. (Cl. 244—29.)



1. In a flying machine a main body; side frames extending upwardly from the main body; a lifting plane pivotally mounted at the upper ends of the side frames; a tiller mounted near the lower ends of the side frames; a pulley rigid with the tiller; guide pulleys above the tiller shaft; a cable extending under the tiller pulley and upwardly over the guide pulleys and having both ends attached to the lifting plane; the points of attachment of the cable to the lifting plane being twenty-four feet each side of the center of the pivot of the lifting plane and the level of the guide pulleys being twelve feet below the level of the lifting plane pivot and the guide pulleys being seven feet each side of the vertical center; and the diameter of the guide pulleys being eighteen inches; so that when the tiller is operated the cable will remain taut to tilt the lifting plane to any desired angle in either direction.

1,336,679. CHAIN-TIGHTENER. ALBERT C. CARLSEN, Pocatello, Idaho. Filed Sept. 22, 1919. Serial No. 325,549. 1 Claim. (Cl. 24—68.)

A chain tightener comprising a base block which is curved longitudinally and provided at one end with spaced flanges, a lever fulcrumed between the flanges and having a curved free end portion which is spaced from the base block when the lever is at a closed position upon the block, a link pivoted to the block and adapted to swing along the curved end portion of the lever and a cam member pivoted to the link and having a cam end portion adapted to engage the curved end portion of the lever and flex the lever when the same is closed whereby the parts are locked in closed position.

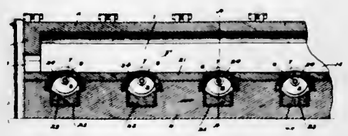


1,336,680. FENCEPOST. LOGAN CORNELIUS, Hardy, Okla. Filed June 23, 1919. Serial No. 306,041. 7 Claims. (Cl. 256—13.)



1. In a fence post, a rigid section adapted to be supported in the ground, a second post section which is connected with the rigid section, a main post section hingedly connected with the second section and capable of pivotal movement in a direction at right-angles to the second section, means for retaining all of the sections rigidly connected together, and means for rendering the first-mentioned means inoperative upon a floating object contacting with the latter, and moving it.

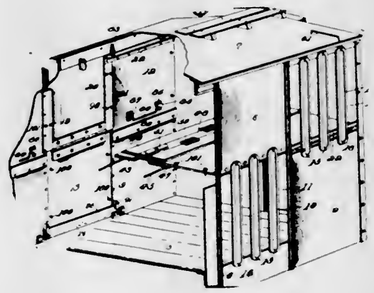
1,336,681. ANNEALING-FURNACE. THOMAS J. COSTELLO, Warren, Ohio, assignor to George J. Hagan Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1916. Serial No. 139,527. 5 Claims. (Cl. 214—18.)



1. The combination of an annealing furnace of the kind described and having an entrance port at the firing and charging end and an exit port at the opposite end; and rollers in a plurality of latitudinal series located at its bottom on revoluble shafts below the line of said bottom a distance but slightly less than the radii of said rollers; with chambers below said bottom opening at their tops thereinto and receiving said rollers; arches adjacent to the sides of said rollers, surmounting the lateral walls of said chambers and protruding slightly into said furnace but less than do said rollers; bed blocks fitting into the bottoms of said chambers under said rollers, their hubs and portions of their sustaining shafts; and ports at the sides of said furnace, in line horizontally with said bed blocks, positioned and of capacity for the withdrawal of said bed blocks, rollers and shafts therethrough, for the purpose set forth.

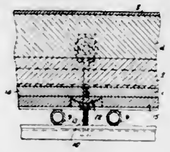
5. Rollers for receiving and transporting plates in an annealing furnace, rotated by hollow shafts, and having chambers leading to dead ends near the centers thereof, and to interior partition walls; thence partly around their interiors near their peripheries to other oppositely disposed dead ends and the opposite faces of corresponding interior partition walls, and thence outwardly through the hubs of said rollers, as shown and described.

1,336,682. CONVERTIBLE FREIGHT-CAR. GEORGE W. DALLIMORE, Oakland, Calif. Filed Dec. 28, 1918. Serial No. 268,698. 15 Claims. (Cl. 105—371.)



1. In a car body, the combination of side walls having a series of separate vertical openings, a vertically movable center beam and wall members movably secured to the side walls and adapted to close the wall openings and form substantially parts of said walls when in one position and when in another position to coöperate with the beam to form an upper deck.

1,336,683. COVERING OR INSULATION FOR SHIPS' DECKS, BULKHEADS, WALLS, FLOORS, CEILINGS, AND THE LIKE. JOHN DAVIES, WILLIAM HENRY JONES, JOSEPH DAVIES, and HENRY JAMES HALE, Liverpool, England. Filed Sept. 17, 1917. Serial No. 191,839. 7 Claims. (Cl. 72—63.)

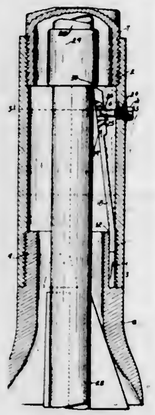


4. A non-conducting covering or insulation for decks, floors, or other surfaces, comprising a primary layer of unit sheets of compressed cork, expanded metal or metallic mesh laid next to said primary layer and secured to the surface to be insulated, and a coating of composition keyed to said primary layer by the expanded metal or the like.

1,336,684. OVERSHOT. GROVER CLEVELAND DEAKINS, Anaheim, and HARRY ABRAM HARKER, Fullerton, Calif., assignors of one-third to William Treat Alling, Anaheim, Calif. Filed Sept. 22, 1919. Serial No. 325,589. 2 Claims. (Cl. 294—90.)

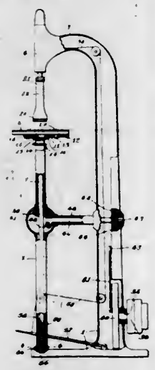
1. An overshot comprising a hollow cylindrical body having an internal screw-thread at its upper end and an internal screw-thread at its lower end and radial openings

near its upper end; a fishing bell having an external screw-thread fitting the lower internal screw-thread and having radial recesses extending vertically, said recesses having enlarged lower ends; spring grappling members



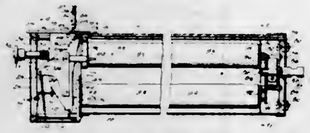
having enlarged lower ends fitting in the recesses and spring shanks extending upwardly and forwardly and grappling heads at their upper ends; bolts connected to the grappling heads and extending through the openings in the cylindrical body; and nuts upon the outer ends of the bolts.

1,336,685. CHINA-BURNISHING MACHINE. PAUL M. DISINGER, Syracuse, N. Y. Filed Aug. 26, 1916. Serial No. 117,087. 19 Claims. (Cl. 51—3.)



1. A china burnishing machine comprising a table movable about an axis, means movable toward and from the face of the table for engaging the upper face of the article thereon and holding the article on the table, and means associated with the table for centering the article held by the former means, substantially as and for the purpose specified.
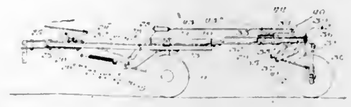
1,336,686. CALCULATING-MACHINE. ALCADA F. DODSON, Milan, Mo. Filed Feb. 4, 1918. Serial No. 215,354. 6 Claims. (Cl. 235—86.)



2. In a machine of the character described, a support, an indicia carrying device connected therewith, a toothed wheel connected with the device to operate the same, a movable bar, a coacting movable bar extending longitudinally of the first named bar, connecting means between the first named bar and second named bar whereby the second named bar is shifted laterally with respect to the first named bar upon the longitudinal movement of the second named bar in one direction, yielding means to oppose the longitudinal movement of the second named bar in one direction, lock means to hold the first named bar against longitudinal movement in one direction and adapted to release the same upon the lateral movement of the second named bar, and means carried by the second named bar to engage the toothed wheel and advance the same.

6. In a machine of the character described, a support having a scale extending longitudinally thereof, said scale being divided into a plurality of selected units; an indicia carrying device; a manually operated element to advance the device for selected distances; a pivoted control member having means to limit the movement of the manually operated element and to cause the same to operate the device for different distances; a plurality of vertically movable depression pins arranged in proximity to the scale and serving to divide the same into a plurality of selected units; a common reciprocatory rod pivotally connected with the pivoted control member and carrying a plurality of collars; and a plurality of pivoted bell crank levers arranged to engage the collars and adapted to shift the rod for different distances, said bell crank levers being actuated by the vertically movable depression pins.

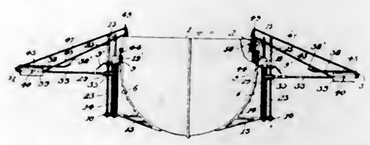
1,336,687. DISK HARROW. WILLIAM C. DWYER, Auburn, N. Y., assignor to International Harvester Company, a Corporation of New Jersey. Filed Dec. 21, 1918. Serial No. 267,850. 10 Claims. (Cl. 55—83.)



1. In a harrow, a frame, disk gangs carried thereby, sliding draft connections including means operable by the draft power for angling the gangs, and a compression spring between the sliding connection and the gangs.

2. In a harrow, a frame, disk gangs carried thereby, draft connections slidable on the frame and connected to the gangs for angling the gangs by a rearward movement of the draft power, and a compression spring between the sliding connection and the gangs.

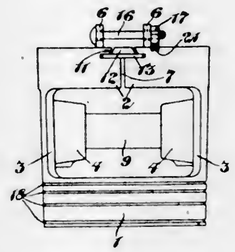
1,336,688. STABILIZER FOR BOATS. JOHN J. FENKO, Cleveland, Ohio. Filed Nov. 18, 1919. Serial No. 338,817. 15 Claims. (Cl. 114—123.)



1. The combination with a boat provided with brackets upon the sides thereof, of supporting arms movably supported thereby, and stabilizers adapted to be supported by and rest upon the outer ends of said arms.

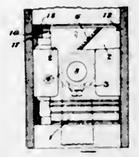
1,336,689. PROCESS OF MAKING PISTONS. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,188. 7 Claims. (Cl. 29—148.)

1. The process of making a piston, which consists in forming a hollow piston body with a lower ring, an upper ring and a top plate which are integrally united; splitting the upper ring and the top plate to form segmental sections; and finishing the piston to a size in which the



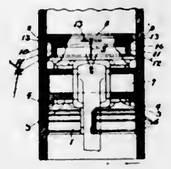
upper ring is of the same diameter as the diameter of the cylinder for which the piston is intended and the remaining portion of the piston is of smaller diameter than the diameter of the cylinder for which the piston is intended.

1,336,690. PISTON. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,191. 10 Claims. (Cl. 74—108.)



1. A piston composed of a hollow body whose upper portion is divided into segmental sections having overlapping ends, said upper portion being of larger diameter than the diameter of the lower portion of the body.

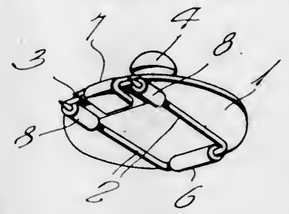
1,336,691. PISTON. JOHN FLAMMANG, St. Louis, Mo. assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,193. 12 Claims. (Cl. 74—108.)



1. A piston comprising a hollow body composed of a lower ring, an upper ring divided into segmental sections, and connections integrally uniting said sections with the lower ring; and a wrist pin supported by the piston body independently of said connections.

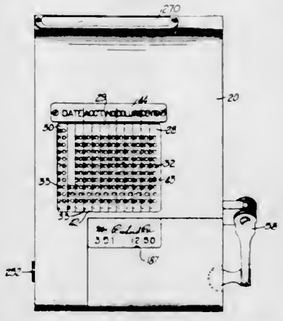
1,336,692. GARMENT-FASTENER. JOSEPH FORMAN, Baltimore, Md. Filed Nov. 3, 1919. Serial No. 335,260. 4 Claims. (Cl. 24—88.)

1. A fastener of the class described comprising a base, a pin attached at one end to said base and adapted for passage first in one direction and then reversely through a piece of flexible material, a pin-locking slide adapted to be forced along said pin toward its attached end after insertion of said pin through the material, and means for connecting said slide to said base when the former is



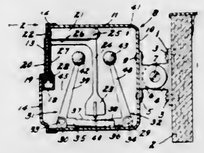
moved toward the free end of the pin, whereby any pull on the material will hold the slide and base tightly connected.

1,336,693. CASH-REGISTER. FREDERICK L. FULLER, Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Filed June 27, 1918. Serial No. 242,255. 7 Claims. (Cl. 235—3.)



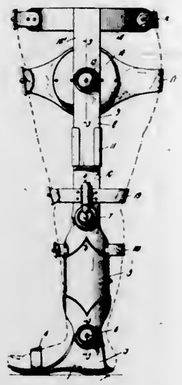
6. In a machine of the class described, the combination of a main operating mechanism, a differentially movable actuator, a totalizer normally disengaged from said actuator, a member rigid with said totalizer for operatively engaging the totalizer with the actuator, means operated by the main operating mechanism for moving said member in adding operations, a pivoted member operated by said means for disengaging the totalizer in adding operations, a manually operated member for moving said rigid member in totaling operations and simultaneously engaging the pivoted member and rendering it ineffective.

1,336,694. GRADE-INDICATOR. JAY GAGE, Los Angeles, Calif. Filed May 28, 1919. Serial No. 300,451. 2 Claims. (Cl. 33—215.)



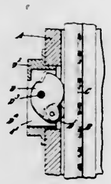
1. A grade indicator for vehicles comprising a graduated dial mounted transversely of the vehicle, a needle pivotally mounted to move across in front of the dial, a weight pivotally mounted to move longitudinally of the vehicle having an arm extending from its pivoted end, a link connecting the arm of the weight with the needle so that the needle will move to one side of the dial when the vehicle is inclined up hill and to the other side of the dial when the vehicle is inclined down hill and a gravity operated brake mechanism for preventing excessive movement of the weight.

1,336,695. LIMB AND FOOT BRACE. ADAM J. GROMES, Sinking Spring, Pa. Filed Feb. 26, 1917. Serial No. 151,087. 8 Claims. (Cl. 128—88.)



5. A leg brace comprising a thigh portion, a waist portion pivotally secured to the thigh portion, and a hip plate pivotally secured to the two last named plates, all of said plates being capable of independent movement.

1,336,696. MEANS FOR AUTOMATICALLY SECURING SLIDING WINDOW-SASHES. CECIL DOWNER GROVES, THORNTON HEATH, EDWARD HENRY JARVIS, Croydon, and HERBERT WILLIAM BRADBURY, Wallington, England. Filed Oct. 31, 1919. Serial No. 334,778. 2 Claims. (Cl. 292—238.)



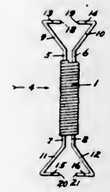
2. A sash window comprising a frame having an opening in its side forming a recess, a housing in said recess, a gravity actuated cam piece pivoted in said housing so as to pass through the opening in the frame, an antifriction roller rotatably mounted on said pivoted cam piece and below its center of motion, an arm on said cam piece for turning it on its pivot to bring the antifriction roller against the sash stile, and a sash slidably mounted in said frame with its stile in the path of the pivoted gravity cam.

1,336,697. AMALGAMATOR. AL HARTER, Los Angeles, Calif. Filed May 22, 1919. Serial No. 298,942. 2 Claims. (Cl. 83—67.)



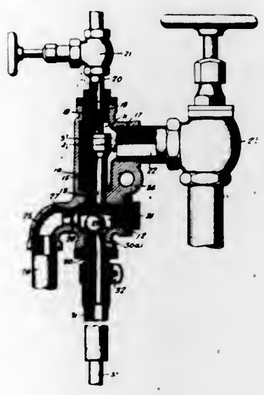
2. An electric amalgamator comprising means forming a trough adapted to contain a quantity of mercury, and an electromagnetic agitating and separating unit mounted horizontally in the trough and adapted to be partly submerged in the mercury; said unit comprising a cylindrical case of non-magnetic material, heads fixed in the ends of the case, tubular shafts extending from the heads, insulating tubes in the tubular shafts, electric conductors extending through the tubes and adapted to be connected to conducting wires, magnetic cores, coils upon the magnetic cores, magnetic plates connected to the ends of the magnetic cores and mounted in the cylindrical non-magnetic case, insulation between the magnetic plates and the non-magnetic case, the coils being connected to the conductors, and magnetic fingers inserted through the non-magnetic case and through the insulation and connected to the magnetic plates, said fingers being arranged in winding rows.

1,336,698. MATCH-LIGHTER. MELVIN E. HILL, Los Angeles, Calif. Filed Sept. 25, 1919. Serial No. 326,293. 2 Claims. (Cl. 51—20.)



1. A match lighter comprising a coil of rough steel wire, and a frame consisting of two wires twisted together at their centers, the wires extending through the coil and the ends of the wires being bent to embrace the spoke of an automobile steering wheel.

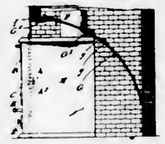
1,336,699. SPRINKLER. ROBERT W. JOHNSON and JAMES BLOOM, Blue Island, Ill. Filed June 13, 1919. Serial No. 303,879. 5 Claims. (Cl. 162—1.)



1. A spraying device including a valve body having a main bore provided with steam and water connections, a siphon tube within the said bore having one end adjacent to both the steam and water connections, said valve body having a valve chamber with which the opposite end of the siphon tube communicates, a spray pipe connection opening through the lower portion of the said valve chamber, a waste nipple leading from one side of the valve chamber and having a concave valve seat, and a ball forming a valve and freely movable in the said valve chamber.

1,336,700. PORTABLE FIREPLACE HEATING-STOVE. WILLIAM H. JOHNSTON, Raleigh, N. C. Filed Aug. 16, 1919. Serial No. 317,916. 9 Claims. (Cl. 126—126.)

1. A portable fire-place stove comprising a sheet metal body having a fire box therein, a fuel door, a cleanout door, and an opening for a smoke pipe in its top, together with an air space extending across the front of the stove,



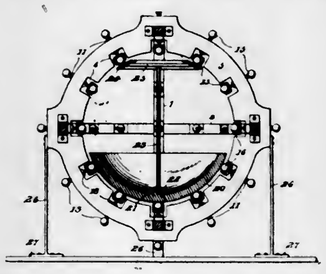
below said fuel door, and forming a forced down draft, and a draft regulating device controlling the admission of air into said space.

1,336,701. SAFETY CENTRIFUGAL PERCUSSION BASE FUSE. HUBERT MEREDITH-JONES, New York, N. Y. Filed June 13, 1917. Serial No. 174,590. 15 Claims. (Cl. 102—39.)



1. In combination in a safety fuse for projectiles, a casing, a primer carrier or cage composed of radially separable members, said cage being axially movable within the casing and normally held in a forward position in said casing and adapted to assume a position away from its normal location and toward the outer end of the casing due to the firing of the projectile from the gun, means for locking the cage in its outer position, said locking means engaging the members of the cage when they are displaced radially, due to centrifugal force, said cage with its locking means moving forwardly under the force of the impact when the projectile strikes the object and a firing pin to engage the primer when the cage moves forward with its members separated, substantially as described.

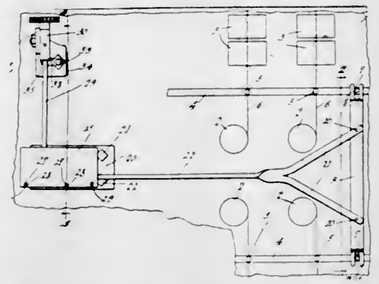
1,336,702. SELF-LEVELING BASKET FOR AEROPLANES. JOSIP JURICICH, Pittsburgh, Pa. Filed Feb. 25, 1918, Serial No. 219,131. Renewed Feb. 18, 1920. Serial No. 359,542. 4 Claims. (Cl. 114—191.)



3. A self-leveling basket comprising supporting rings, bearings carried by said supporting rings, an occupant-carrying basket located within said rings, and engaging said bearings, and a standard connected with said basket and bearings for holding said basket freely movable in upright position.

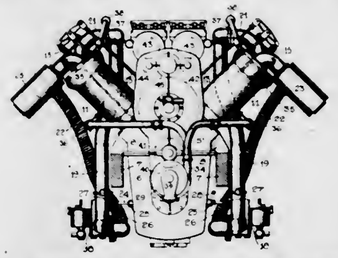
1,336,703. ROLL-TRAVERSE. JAMES A. KESTER, Gastonia, N. C., assignor of one-half to Howard M. Clemmer, Dallas, N. C. Filed Nov. 21, 1918. Serial No. 263,551. 3 Claims. (Cl. 74—14.)

2. In a device of the class described, a shift bar; a pitman; means for operatively connecting the pitman to the shift bar; a gear wheel whereunto the pitman is pivoted; a shaft; a pinion on the shaft and meshing into the gear wheel; a bearing receiving the shaft for rotation and including a depending fin provided with a slot ex-



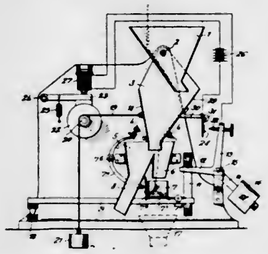
tended longitudinally of the bearing; a support having an upstanding flange; and a securing device located in the slot and coöperating with the flange.

1,336,704. AERONAUTICAL MOTOR. CHARLES B. KIRKHAM, Buffalo, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Sept. 18, 1915. Serial No. 51,480. 11 Claims. (Cl. 123—52.)



1. The combination of a multicylinder internal combustion engine of the stationary cylinder type, said engine having its cylinders arranged in banks, of an intake manifold individual to each bank of cylinders and symmetrically arranged with reference to the cylinders it serves, a separate and independent carbureter for each manifold and its corresponding bank of cylinders, each of the said carbureters being of a capacity less than that required for supplying two banks of cylinders, and a direct connection leading from each carbureter to the corresponding manifold and symmetrically arranged with reference thereto, whereby the fuel charges are evenly formed and fed uniformly to said cylinders under varying conditions of service.

1,336,705. AUTOMATIC WEIGHING DEVICE. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed May 27, 1919. Serial No. 300,165. 9 Claims. (Cl. 249—1.)



1. An automatic weighing device, comprising a scale beam, a weighing receptacle thereon, movable feed means

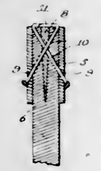
to direct the material to be weighed into said receptacle, mechanism for effecting the movement of said feed means to direct the stream of material outside of the weighing receptacle, and means to prevent the operation of said mechanism until after the scale beam has moved a predetermined amount and to continuously control said operation until the exact weight of material is attained.

1,336,706. LICENSE-INDICATOR. JOHN M. MCCARTHY, Chicago, Ill. Filed Aug. 26, 1918. Serial No. 251,435. 2 Claims. (Cl. 40—130.)



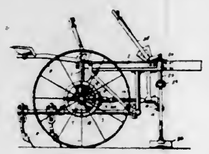
1. A license indicator comprising a sheet material casing formed of telescopically slidable sections, one side of the casing being open to receive a license plate and having inturned flanges to retain the latter, and interfitting indentations made in the superposed walls of the casing sections for holding the same together rigidly at various telescopically adjusted positions thereof.

1,336,707. HANDLE-SECURING MEANS. GERALD G. MALLETT, Princeton, Ark. Filed Sept. 6, 1918. Serial No. 252,906. 1 Claim. (Cl. 287—34.)



In combination, an implement having a socket and a handle having one of its ends received in the socket, the sides of the implement having outwardly directed angular orifices which communicate with the bore thereof, and bendable means passing through said orifices and through the portion of the handle in the socket of the implement, and designed to contact with the opposite walls of said socket to direct the same outward from the bore of the implement and to permit of the extensions thus provided being bent angularly over the outer end of the handle.

1,336,708. COTTON-CHOPPING MACHINE. JAMES G. SIMS, Bowie, Tex., assignor of one-fourth to Wyatt S. Riggins, Bowie, Tex. Filed Mar. 11, 1919. Serial No. 281,999. 2 Claims. (Cl. 97—45.)

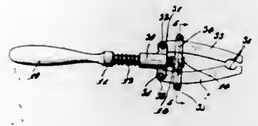


1. A cotton chopping machine comprising a farm cultivator provided with ground wheels, gears fitted to the wheels, a driving mechanism comprising an axle housing containing a drive shaft and gears, a pair of support brackets adapted to support the driving mechanism in engagement with the driving gears, a shaft fitted with a gear and meshing with the driving mechanism, a slip joint contained within the last mentioned shaft for adjusting the length thereof, a hoeing arm operated by the last mentioned shaft, and means for adjusting the depth of the hoe arm.

1,336,709. PROCESS FOR PRODUCING SALTS OF THE N-METHYL-HEXAMETHENETETRAMIN. REINHOLD TSCHUNKE, Breslau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 19, 1914, Serial No. 813,066. Renewed June 26, 1919. Serial No. 306,920½. 2 Claims. (Cl. 23—24.)

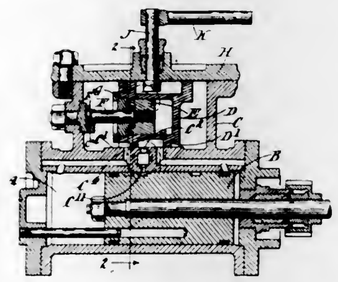
1. Process for the manufacture of salt of the N-methyl hexamethenetetramin consisting in submitting hexamethenetetramin yielding mixtures of ammonia and formaldehyde to heat with methylizing agents in the presence of acid anions for a considerable time and bringing the products of reaction to crystallization.

1,336,710. PIPE-WRENCH. WASYL ZADOROZNY, Meacham, Saskatchewan, Canada, assignor of one-half to Tony Zygiel, Hamilton, Ontario, Canada. Filed Mar. 13, 1919. Serial No. 282,465. 1 Claim. (Cl. 81—113.)



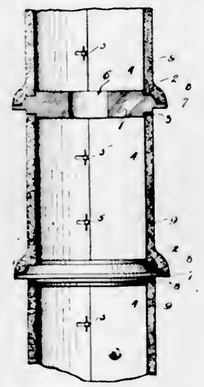
In a pipe fitter's tool, the combination with a manually operable handle, and a screw-threaded bar extending therefrom, of a guide formed in two parts riveted together, engaged at the end of said bar, collars on said bar at both sides of the said head, a sleeve engageable with said bar, a pair of oppositely disposed lugs at opposite sides or points of said sleeve, a pair of jaws movable in said head, pivotal connections between said jaws and said lugs, and means formed with said jaws for grasping the exterior of a pipe.

1,336,711. VALVE MECHANISM FOR RECIPROCATING ENGINES. ALFRED HYMAN ANTHONY, Colchester, England. Filed Feb. 4, 1919. Serial No. 274,895. 5 Claims. (Cl. 121—150.)



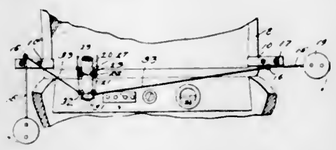
1. In a reciprocating engine the combination of a valve-chest carried on the working cylinder, a plunger-and-barrel device within the chest of which device the plunger is fixed and the barrel is movable in the chest in the direction of its own principal axis, a valve rigidly secured to the barrel within the chest, two admission ducts connecting opposed points in the interior of the chest with opposed points in the interior of the said cylinder, two inlet ducts connecting opposed ends of the interior of the barrel with opposed points in the interior of the cylinder, and two exhaust ducts connecting opposed ends of the interior of the barrel with opposed points in the interior of the cylinder, characterized by all of the said ducts having ports in the cylinder so situated as to be always masked by the piston in its movements and by the piston being formed with pockets so shaped and situated that in one position of the piston one of said admission ducts is connected with one of said inlet ducts, and one of said exhaust ducts is connected with the exhaust port of the working cylinder, and that in another position of the piston the other admission duct is connected with the other inlet duct and the other exhaust duct is connected with said exhaust port, while the pockets are inoperative at all other positions of the piston, substantially as described.

1,336,712. METHOD OF MAKING CONCRETE UNITS. ARTHUR G. AURAND, Los Angeles, Calif. Filed Dec. 23, 1918. Serial No. 268,078. 3 Claims. (Cl. 25—126.)



2 The method of making pipe or column sections, which consists in setting up in superposed relation a plurality of bases spaced by suitable casings, and applying concrete under pressure to the outside of the casing and the bases, which latter divided the finished products.

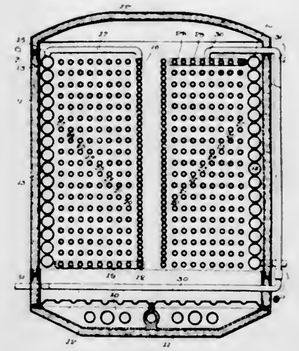
1,336,713. AUTOMOBILE-SIGNAL. FRED BAHLER, Gilroy, Calif. Filed May 2, 1919. Serial No. 294,272. 4 Claims. (Cl. 116—52.)



1. An automobile signal comprising signal means pivoted to an automobile body, levers pivoted to the steering column and movable in a plane parallel to the column, cables connecting said signal means with said levers, a plate secured to said steering column for each lever and being provided with a pair of notches for retaining said levers in an operative and inoperative position, and an inclined wall carried by each plate and arranged between each pair of notches for guiding said levers.

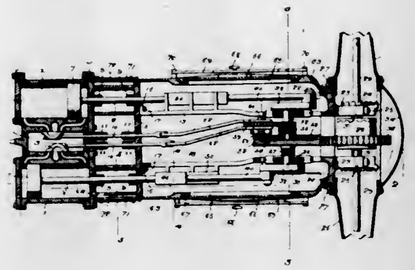
1,336,714. WATER-TUBE BOILER. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Feb. 23, 1918. Serial No. 218,852. 1 Claim. (Cl. 122—250.)

A steam generator comprising a vertical helical water coil of tubing of relatively large diameter for holding a considerable quantity of water in reserve, a plurality of concentric vertical helical coils within the water coil and each of tubing of considerably smaller diameter than the tubing of the water coil, a header to which the upper ends of the last named coils are connected, a header to which the lower ends of the last named coils are connected, a water supply pipe connected to the water coil at the lower end thereof, means centrally within the last named coils for conducting water downwardly therein at the center of the generator, the upper end of said means being connected to the upper end of the water coil to receive the water



after flowing upwardly in the water coil and to flow downwardly centrally within the generator, and the lower end of said means being connected to the lower header for the flow of water upwardly in the last named coils after passing downwardly centrally within the generator, and a steam outlet pipe connected to the header at the upper ends of the last named coils.

1,336,715. ENGINE-FRAME. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed June 19, 1918. Serial No. 240,827. 2 Claims. (Cl. 74—56.)

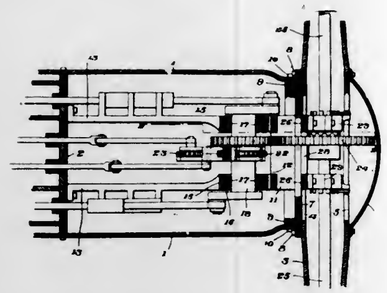


1. An automobile propulsion mechanism embodying a rear axle housing, engine cylinders having a head plate, a frame rigidly connected at one end to said head plate and extending to the axle housing, a crank shaft mounted in said frame, and a casing inclosing said frame and connected at one end to said head plate, said frame having supporting means adjacent to the axle housing to which the other end of the casing is fitted and secured, and the frame having an outstanding flange projecting beyond said supporting means and the end of the casing and secured to the axle housing.

1,336,716. AXLE CONNECTION FOR ENGINES. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Oct. 10, 1918. Serial No. 258,798. 4 Claims. (Cl. 74—56.)

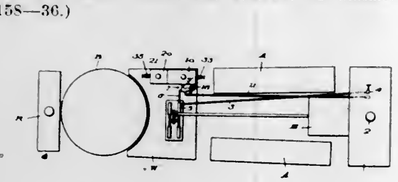
1. In an automobile driving mechanism, a rear axle housing, a cylinder head plate, a crank shaft frame having

one end rigidly secured to said head plate, an annular plate secured to said axle housing, means connecting the other end of said frame and annular plate, and a casing



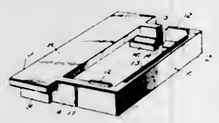
surrounding said frame and having one end secured to said head plate, said annular plate having supporting means surrounding the aforesaid connecting means on which the other end of the casing is fitted and secured.

1,336,717. FUEL-PUMPING SYSTEM. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Jan. 22, 1919. Serial No. 272,491. 4 Claims. (Cl. 158—36.)



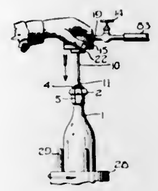
1. A fuel supplying apparatus embodying two pressure tanks, means for delivering fuel under pressure into one tank, an automatic regulator independently connected to and controlled from the pressure in said tank and controlling the delivery of fuel thereinto to maintain a predetermined pressure, means for delivering fuel from said tank to the other one, and a second automatic regulator independently connected to and controlled from the pressure in the last named tank and establishing and stopping the flow of fuel thereinto from the first named tank to maintain a different pressure in the second named tank.

1,336,718. STEP. SHEROD P. BARKSDALE, Philadelphia, Pa. Filed Mar. 17, 1919. Serial No. 283,123. 5 Claims. (Cl. 72—96.)



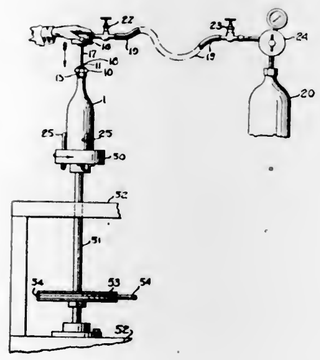
4. An article of manufacture comprising a plastic step formed of a hollow block having an open top and bottom, a tread portion extending across the block and connecting the front and adjacent portion of the sides at the top thereof, said tread partially covering the open top of the block, and said tread being formed integral with the block.

1,336,719. MECHANISM FOR TREATING FRUIT-JUICE. HERMAN BAULIG, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,747. 16 Claims. (Cl. 226—20.)



1. A device for charging with gas a fluid in sealed bottles including in combination a seal piercing and gas introducing member, and mechanism for imparting a relative rotation between the bottle and the piercing member for facilitating the piercing of the seal.

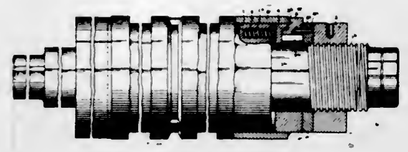
1,336,720. PROCESS OF TREATING FRUIT-JUICE. HERMAN BAULIG, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,748. 5 Claims. (Cl. 99—15.)



2. The process of treating fruit juice comprising sealing the juice in containers, sterilizing the juice in the containers after sealing and charging the sealed sterilized juice with carbonating gas while maintaining the juice at all times free from contact with air and in sterile condition.

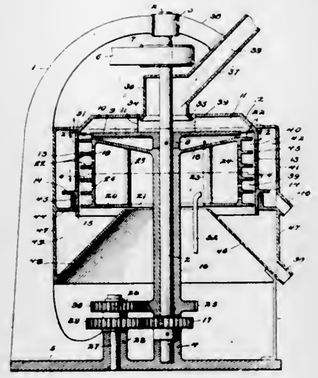
5. The process of treating fruit juice which comprises filling a container, sealing the container, sterilizing by heat the juice in the sealed container, and introducing a gas conduit into the sealed container and charging the juice with carbonating gas through the conduit while maintaining the sealed condition, withdrawing the conduit after charging the juice and sealing the opening made by the conduit while the gas in the container is above the atmospheric pressure.

1,336,721. PLATE-CLAMPING DEVICE FOR PRINTING-PRESSES. HENRY F. BECHMAN, Battle Creek, Mich., assignor to Duplex Printing Press Company, Battle Creek, Mich., a Corporation of Michigan. Filed Sept. 24, 1917. Serial No. 193,008. 20 Claims. (Cl. 101—378.)



1. Plate clamping devices, comprising movable plate clamps, means for simultaneously radially projecting or retracting said clamps, and means for simultaneously moving said clamps longitudinally to simultaneously engage them with a plate.

1,336,722. PROCESS OF AND APPARATUS FOR SEPARATING LIQUIDS FROM SOLIDS. HANS C. BEHR, New York, N. Y. Filed Mar. 29, 1919. Serial No. 286,603. 9 Claims. (Cl. 210—30.)

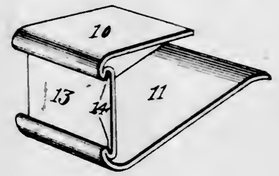


1. The process of separating liquids from solids which consists in gradually and forcibly bringing the material up to a high speed of rotation while holding the same between a pair of rotating surfaces; forcibly deflecting said material over the rim of one of said surfaces to expel a portion of the liquid present; holding said material against a foraminous mantle for a predetermined time after being thus deflected while revolving at said high speed, to expel another portion of said liquid; and blowing a jet of air through said material while so held, substantially as described.

4. In an apparatus for continuously separating liquids from solids by centrifugal action, the combination of a central rotating shaft; a plurality of impeller blades rigidly associated with said shaft and adapted to impart a high speed of rotation to the material; an outer foraminous shell member adapted to receive said material on its inner surface; an interior conveyer member adapted to move said material over said surface; fan blades rigid with said member adapted to deliver an air blast through the rotating material; means for rotating one of the said members; and gear connections whereby said conveyer member may be rotated at a different speed from said shell member, substantially as described.

9. In an apparatus for continuously separating liquids from solids by centrifugal action, a rotating formanious shell having internal circular ribs and a granular filtering material bedded between said ribs; and a screen covering the inner surface of said filtering material, substantially as described.

1,336,723. COMBINED CARD-HOLDER AND CLAMP. EDWARD BENNETT, Washington, D. C. Filed Apr. 18, 1919. Serial No. 291,013. 1 Claim. (Cl. 40—16.)



As a new article of manufacture, a combined clamp and card holder formed from a single blank of flexible material adapted to be bent into substantially U-shaped formation, one of the limbs of the clamp being arranged at a right angle to the cross piece thereof, while the remaining limb is obliquely disposed in an upward direction with respect to said cross piece, the opposite longitudinal edges of said cross piece being bent forwardly and toward each other to provide grooves in which a card is slidably fitted, and giving said cross piece a substantially dovetail formation in cross section, said bent edges being connected with said limbs.

1,336,724. CIGAR-TIP CUTTER. CHARLES BERBERICH, Waterbury, Conn. Filed Jan. 14, 1918, Serial No. 211,783. Renewed Dec. 12, 1919. Serial No. 344,469. 1 Claim. (Cl. 131—38.)



In a device as described, in combination, a cylindrical sleeve, a band mounted at one end of said sleeve, a cylindrical jacket, a second band secured to the inner face of said jacket intermediate the ends thereof, and having a cutting edge, said cylindrical sleeve telescoping within said second band and formed at its lower end with an outstanding annular flange engaging the interior wall of said jacket, an inturned flanged bottom formed with said jacket for constituting with the inner wall of the jacket a channel in which the flange of said sleeve is adapted to be received, said jacket, second band and sleeve being provided with registering openings adapted to receive a cigar tip, the edge of the opening in said sleeve being sharpened so as to provide a cutting edge adapted to cooperate with the cutting edge of said second band for cutting the tip off a cigar introduced into said openings upon the movement of said jacket toward the first named band, substantially as described.

1,336,725. BABY-CARRIAGE. STANLEY BIWOIN, White Lake, Wis. Filed Oct. 13, 1919. Serial No. 330,165. 3 Claims. (Cl. 280—31.)

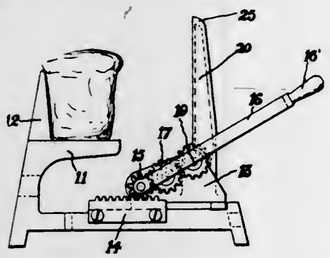
1. In a baby carriage of the character described, a cradle, arms between which said cradle is suspended with-

in said carriage to oscillate therein, springs secured to the front and rear end of said cradle and to the inner front



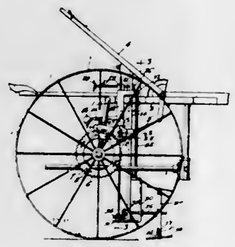
and rear wall of said carriage for providing a smooth motion, and means for transferring the to and fro motion of the carriage to said cradle.

1,336,726. BREAD-SLICING MACHINE. STANLEY BIWOIN, White Lake, Wis. Filed Oct. 13, 1919. Serial No. 330,237. 3 Claims. (Cl. 146—12.)



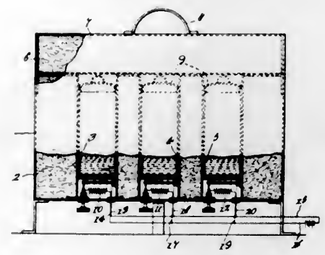
1. In a bread cutter, the combination with a frame and a slotted support for the bread, of a slide movable on said frame, a shaft mounted in said slide, a plurality of knives fixed on said shaft, and a hand lever operatively engaged with said shaft, whereby said slide is moved toward said support and said knives rotated upon the axis of said shaft from a vertical to a horizontal position.

1,336,727. CHOPPING ATTACHMENT. GEORGE N. CHENAULT, Forney, Tex. Filed Mar. 17, 1919. Serial No. 283,147. 5 Claims. (Cl. 97—46.)



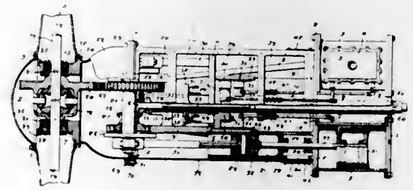
1. In a chopping attachment, a support adapted to be arranged transversely of a wheeled implement and connected with the arched portion of the axle thereof carrying the wheels, an upstanding frame pivotally connected with the support to swing in a substantially vertical plane longitudinally of said implement, means to lock the upstanding frame in a desired angular position with relation to the support, a vertically adjustable chopping mechanism carried by the upstanding frame, means to vertically adjust the chopping mechanism, and driving means connecting the chopping mechanism and one wheel, said driving means being connected with the upstanding frame and adapted to permit of the angular adjustment of said upstanding frame.

1,336,728. RIPENER FOR MOTHER-STARTER. NIELS CHRISTENSEN, Lima, Ohio. Filed Oct. 5, 1918. Serial No. 257,020. 4 Claims. (Cl. 219—38.)



1. An apparatus for ripening mother starter comprising a cabinet, insulation in the cabinet having a plurality of separated and isolated openings therein, a plurality of containers for holding different grades of mother starter set in said openings, a cover for the cabinet, a body of insulating material carried by the cover and closing in common all of the openings, and means whereby the different grades of mother starter in the different containers may be preserved at different temperatures respectively most favorable for the development of each separate culture.

1,336,729. ENGINE-FRAME. WILLIAM P. COOK and HARTLEY O. BAKER, Pueblo, Colo., assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed June 19, 1918. Serial No. 240,828. 3 Claims. (Cl. 74—56.)



1. An automobile propulsion mechanism embodying a rear axle housing, rear axles therein, a differential gearing between said axles, engine cylinders having a head plate, a frame rigid with said plate and extending toward the axle housing, a crank shaft mounted in said frame, a connection between said crank shaft and differential gearing, and an annular coupling unit located between said frame and axle housing and having its opposite ends rigidly secured thereto, to connect the frame and axle housing, said unit having brackets extending into the axle housing and embracing the axles.

1,336,730. INJECTION-SYRINGE WITH PROTECTING-HOOD. GEORGES THEODORE COURT, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y., a Corporation of New York. Filed July 8, 1919. Serial No. 309,520. 3 Claims. (Cl. 128—216.)

1. An injection syringe comprising a reservoir, a hollow injection needle fitted thereon, means whereby communication between said reservoir and needle is cut off, a protecting hood normally covering the needle, a stylet carried by said hood and extending through said needle and arranged to be actuated by said hood to pierce said

means whereby communication between said reservoir and needle is established and a removable convolute fas-



tening band extending about said hood whereby the latter is fixed in operative position.

1,336,731. MACHINE FOR CUTTING BEVELS. WILLIAM P. CURRY, Syracuse, N. Y. Filed July 5, 1919. Serial No. 308,700. 7 Claims. (Cl. 90—14.)



1. A machine for cutting circular bevels, including a plurality of knives, a power-driven holder for said knives, a work support, a train of gears for rotating said support for bringing the work into the path of said knives, a swivel member for frictionally clamping the work to said support, and a vertically reciprocatable part for operating said swivel member.

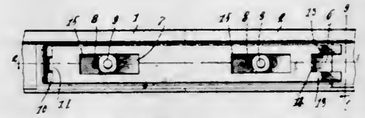
1,336,732. VACUUM-RAILWAY. ROBERT BALLARD DAVY, Hayward, Calif. Filed May 23, 1919. Serial No. 299,257. 8 Claims. (Cl. 104—138.)



5. A vacuum railway, comprising a vacuum tube section, provided with means defining a car compartment; said means comprising a door normally across the tube but to be opened on the approach of the car, a second door normally closing the end of the tube, and instrumentalities normally locking the second door but permitting the opening of the first, but capable of movement to unlock the second and then lock the first.

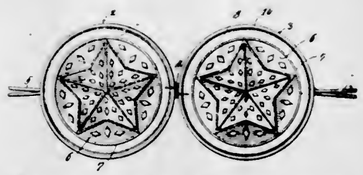
1,336,733. NUT-LOCK. FREDERICK P. DEEVER, Mannington, W. Va., assignor of one-half to Angus B. Cooper, Mannington, W. Va. Filed June 10, 1918. Serial No. 239,214. 1 Claim. (Cl. 151—59.)

In a nut locking device, for use in connection with the fish plates and the nuts and bolts of a rail joint, a base plate set against one of the fish plates and provided with openings of sufficient diameter to accommodate the shanks of the bolts of the rail joint and permitting the expansion or contraction of the rail joint without injurious effect to the locking device, said plate being further formed at one end with an outturned eyepiece and at the other end with a number of resilient tabs, one of which is struck



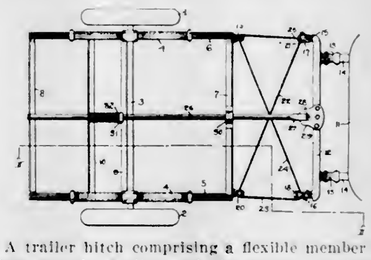
outwardly from the others to form a locking member, a locking plate fitted against said base plate, one end thereof being slidable through the eyepiece of the base plate and the other end being notched for engagement under the locking tab of the base plate, said plate having spaced openings formed therein for receiving and retaining in locked position, when partially rotated, the nuts carried by the bolts of said rail joint.

1,336,734. WAFFLE-IRON. FANNIE DE GRAFF, Ilwaco, Wash. Filed Apr. 19, 1919. Serial No. 291,256. 1 Claim. (Cl. 53—10.)



A waffle iron comprising two members having up-standing side walls at the perimeter thereof, hingedly connected opposite the edges of said walls, each member being in the form of a unitary structure comprising a batter chamber proper with an upstanding rib around its outer edge, a catch trough formed between said rib and said up-standing side walls of the member and surrounding said chamber on the inner face of said member, a spacing rib on the outer face of each of said members, the outer faces of said members being flat throughout their entire area except for said spacing rib to provide for the uniform spacing of all parts of the outer face of the iron from its support to insure uniform cooking of its contents.

1,336,735. DRAFT DEVICE. LORING B. DOE, San Francisco, Calif., assignor of one-half to Edward G. Lewis, San Francisco, Calif. Filed July 9, 1918. Serial No. 244,088. 10 Claims. (Cl. 213—67.)

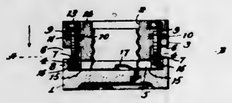


1. A trailer hitch comprising a flexible member extending between the trailer and the tractor on both sides thereof; and crossing obliquely between said sides.

1,336,736. INCANDESCENT-LAMP SOCKET. WITTER WILLIAM OSWALD FENETY, Fredericton, New Brunswick, Canada. Filed Mar. 9, 1918. Serial No. 221,536. 3 Claims. (Cl. 173—340.)

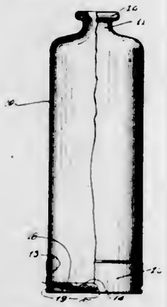
1. A lamp socket formed in a single piece of refractory material having the usual centrally disposed opening for

the reception of the base of the lamp bulb, a chamber formed within the wall of the socket, communicating passages extending from the top of the chamber laterally to the exterior of the socket and to the base of the centrally disposed opening, a current conveying member disposed within the passage communicating with the centrally disposed opening, one end of the member forming a cutter and being positioned within the chamber, a current conveying wire positioned within the chamber, the



wall having a vertically arranged bore or opening extending from the upper face of the block to the chamber, the said opening being surrounded at a point intermediate its ends by a nut having a threaded bore of the same diameter as the opening and in alinement therewith, and a blunt screw extending through the vertical opening into the chamber and having threaded engagement with the nut, said screw adapted to force the wire into contact with the cutter.

1,336,737. BOTTLE. BERNARD JAMES FINNEGAN, New York, N. Y. Filed Oct. 28, 1919. Serial No. 333,907. 3 Claims. (Cl. 220—69.)



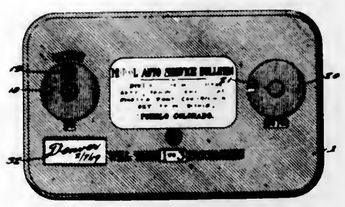
1. A bottle comprising a cylindrical main body provided at its broad end with an externally threaded portion, a cylindrical base for closing the broad end of the bottle having an internally threaded portion corresponding with the threaded portion of the bottle, apertures provided at the unthreaded end of the base, a spherical head having a flattened rim provided within said unthreaded end and being of lesser height than the latter, said flattened portion terminating at the upper edge of said apertures.

1,336,738. WELL-PACKER. HAROLD W. FLETCHER, Houston, Tex. Filed Nov. 21, 1919. Serial No. 339,579. 6 Claims. (Cl. 166—10.)



1. A packer for well casing comprising a tubular member of tough ductile metal flared outwardly on the upper portion and threaded at the lower end for attachment to a pipe and an outer sleeve of soft metal.

1,336,739. AUTO-SERVICE BULLETIN. HARRY I. FULTON, Pueblo, Colo. Filed Mar. 25, 1919. Serial No. 284,966. 14 Claims. (Cl. 40—70.)

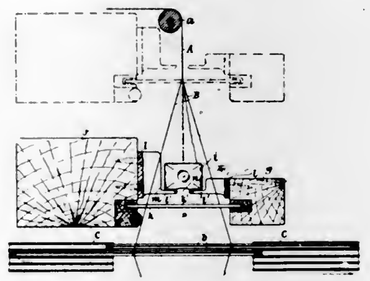


1. An auto service bulletin including with a case to be displayed by an auto, movable parts having service indicating markings arranged to be set to show an offer of service and the service offered, and setting means directly connected with said movable parts by which the indications of the bulletin are changed provided with markings adjacent a fixed point on the case to indicate to an operator settings as made.

1,336,740. CERAMIC COMPOSITION. OTTO GERBER, Witten-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 27, 1913, Serial No. 797,572. Renewed Sept. 3, 1919. Serial No. 321,465. 4 Claims. (Cl. 106—11.)

1. A ceramic article consisting of a pulverulent mixture of glass, china and earthenware molded into desired form and fired, substantially as described.

1,336,741. LOOM. PETER G. GIELEN, Paterson, N. J. Filed Feb. 5, 1920. Serial No. 356,560. 3 Claims. (Cl. 139—18.)

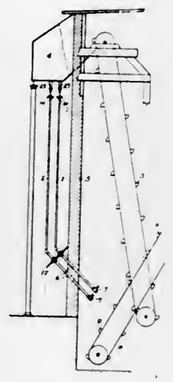


1. In combination, with means to support the warp and finished goods in an upright position with the finished goods above the warp, a batten structure movable up and down substantially parallel with the plane of the finished goods and having beating-up dent portions bisected by said plane, and a series of filling-carrier-race-forming dent portions arranged substantially parallel with but higher than the beating-up dent portions and clear of said plane.

1,336,742. COOLER. DENISON W. GRANT, Franklin, Pa., assignor to Foco Oil Company, Franklin, Pa., a Corporation of Pennsylvania. Filed June 20, 1919. Serial No. 305,570. 2 Claims. (Cl. 257—178.)

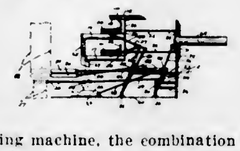
2. The combination with a building wall of a cooler for materials of the character herein described, comprising a plurality of substantially vertical cooling pipes having their cooling portions located outside the building wall, and having at their lower ends provisions for discharging the material inside of the building wall, means for

supplying a cooling circulation of water outside of the pipes at their upper ends, and a baffle near the lower ends



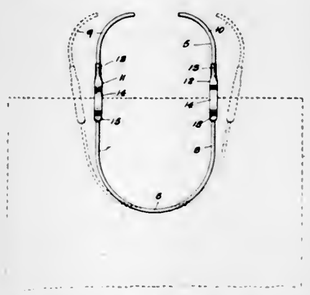
of the pipe to prevent the water from following the pipes through the building wall; substantially as described.

1,336,743. VENDING-MACHINE. MOSES H. HARRIS, New York, N. Y. Filed Apr. 26, 1917, Serial No. 164,695. Renewed Feb. 21, 1920. Serial No. 360,337. 23 Claims. (Cl. 194—80.)



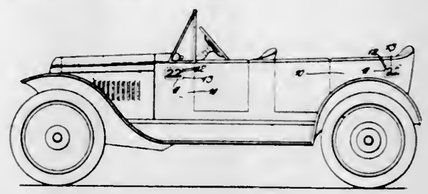
7. In a vending machine, the combination of an article container, a coin container, coin-controlled means responsive to coins of either of two denominations, means for feeding a coin of either denomination thereto, and a hand-actuated device for operating the coin-controlled means to extract an article from the article container, or a plurality of articles from the article container and a plurality of coins from the coin container, depending on the denomination of the coin fed to the coin-controlled means; substantially as described.

1,336,744. NAPKIN-HOLDER. ALBERT HENDERSON, Jersey City, N. J. Filed Aug. 27, 1919. Serial No. 320,111. 1 Claim. (Cl. 24—9.)



A napkin holder of the class described comprising an approximately U-shaped frame composed of a plain and unobstructed strip of spring material bent to form an arc-shaped cross head, parallel sides and inwardly and backwardly curved end portions, and spring clip devices on the sides of said holder adjacent to the curved end portions thereof substantially as shown and described.

1,336,745. THEFT-DETECTING MEANS FOR VEHICLES. HOWARD W. IRWIN and WAYNE K. HAWK, Philadelphia, Pa. Filed Apr. 22, 1919. Serial No. 291,993. 2 Claims. (Cl. 40—2.)



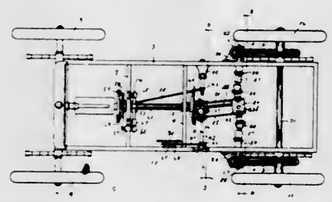
1. A body portion of a vehcile having an identification number produced by an interruption of a surface of said body portion, said body portion also having an interruption of said surface providing a margin closely surrounding said number whereby no other numbers can be added to said first number without detection; substantially as described.

1,336,746. RUBBER-DAM-CLAMP APPLIANCE. JAMES W. IVORY, Philadelphia, Pa. Filed Sept. 30, 1919. Serial No. 327,558. 7 Claims. (Cl. 32—20.)



1. In a rubber dam and clamp appliance, a forcep provided with beaks extending angularly downwardly therefrom, and recesses in said beaks extending in the perpendicular direction thereof for engagement with relative members of a rubber dam clamp.

1,336,747. POWER TRANSMISSION. GEORGE L. JACQUES, Neillsville, Wis. Filed Feb. 1, 1919. Serial No. 274,467. 6 Claims. (Cl. 74—26.)

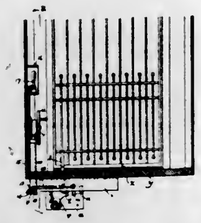


1. A transmission for motor vehicles including a jack shaft in flexibly connected sections, a pivoted frame in which a section of said jack shaft is journaled, having a friction wheel, a sprocket chain connection between the friction wheel and the said section of the jack shaft, a speed changing shaft, connections between the speed changing shaft and said frame for swinging the latter on its pivot to move the friction wheel, a motor, having a driving shaft, a propeller shaft having a longitudinally yielding connection with the drive shaft, and a concave driving disk mounted on said propeller shaft and engaged by the friction wheel of said frame.

1,336,748. ELEVATOR INTERLOCKING DEVICE. THOMAS W. JENKINS, Philadelphia, Pa.; Jennie A. Jenkins executrix of said Thomas W. Jenkins, deceased. Filed July 13, 1918. Serial No. 244,680. 2 Claims. (Cl. 187—49.)

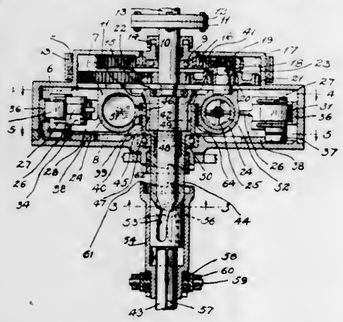
1. The combination, with an elevator shaft containing a landing and a gate therefor, a car movable in the shaft and a controller in the car for governing its operation of interlocking contrivances on the car and the shaft by

which the gate is locked when the car is not opposite thereto and the controller is locked when the gate, the car being opposite thereto, is opened, the interlocking contrivance on the car comprising a spring which in the



controller-locking operation positively transmits motion from one element to another, and a manually actuable emergency device operable, when the gate is open, to actuate part of the interlocking contrivance on the car to unlock the controller and compress the spring.

1,336,749. VARIABLE-SPEED POWER-TRANSMITTING DEVICE. ARNOLD HENERY JESSEN, Los Angeles, Calif., assignor to Hydraulic Clutch Company, Los Angeles, Calif., a Corporation. Filed Sept. 25, 1919. Serial No. 328,048. 8 Claims. (Cl. 192—18.)



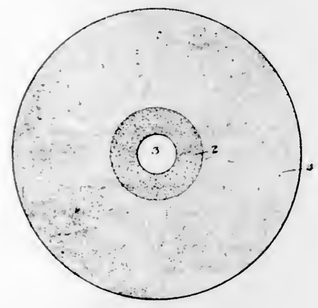
7. A driving means, a driven means, a plurality of cylinders, tangentially arranged on one of said members, pistons in said cylinders, means for controlling the movement of said pistons, rocker arms connected with said pistons and provided with cam engaging elements, a cam against which said elements bear, and a reducing gearing between said cam and driving member.

1,336,750. SHOE-TURNING MACHINE. EUCLID I. LA CHAPELLE, Brockton, Mass. Filed Mar. 8, 1919. Serial No. 281,564. 4 Claims. (Cl. 12—57.)



1. A shoe turning machine, having, in combination, a heel turning cup, forepart turning means and actuating means for said forepart turning means, said forepart turning means being so arranged that the shoe may be held in engagement therewith by the operator's hand directly upon the shoe during the time of its shoe turning actuation by said actuating means so that the progression of the shoe turning operation by said forepart turning means may be constantly under the immediate control of the operator's hand.

1,336,751. CERAMIC ARTICLE. SILAS C. LINBARGER, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Jan. 25, 1918. Serial No. 213,719. 2 Claims. (Cl. 51—1.)



1. As a new article of manufacture, a circular ceramic abrasive wheel having an arbor hole therethrough and having the body of the wheel immediately surrounding the arbor hole of a lesser density than the outer working portion of the wheel and integrally united therewith, substantially as described.

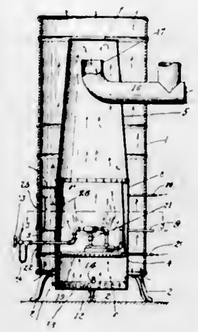
1,336,752. FASTENING DEVICE. JOHN O. MULLER, West Hoboken, N. J. Filed July 15, 1919. Serial No. 311,014. 6 Claims. (Cl. 74—13.)



4. The combination of a carrying member having a plurality of apertures, a secondary member in surface engagement with said carrying member and having a plurality of integral projections extending into said apertures and prongs comprising integral parts of said carrying member located about the apertures thereof and penetrating said secondary member without passing therethrough, said prongs and projections coöperating to secure said members together in the form of a composite unit.

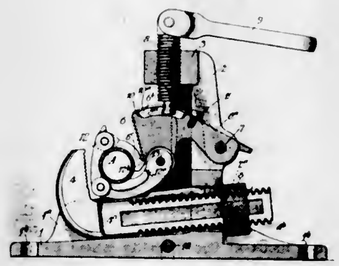
1,336,753. HEATER. DAVID J. NYSEWANDER, Toledo, Ohio. Filed Jan. 6, 1919. Serial No. 269,853. 1 Claim. (Cl. 126—95.)

In a heater of the type described, the combination with an upright drum open at its ends, a door in its wall, a radiator supported concentrically within the drum and having a tubular lower portion and a tapered upper portion closed at its upper end, a water jacket in the wall of the tubular portion surrounding an internal fire chamber, and a door through the jacket opposite the other door; of a damper controlling the admission of air into the lower end of the radiator, an escape flue leading from its upper portion, a vapor burner disposed within and near the center of said fire chamber, a gas burner also



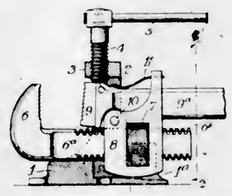
disposed within said fire chamber at the bottom of the jacket, and means for supplying appropriate fluid fuel to said burners selectively.

1,336,754. VISE. ROY PARMELEE, Chicago, Ill. Filed Aug. 6, 1915, Serial No. 44,078. Renewed Aug. 28, 1919. Serial No. 320,458. 11 Claims. (Cl. 81—19.)



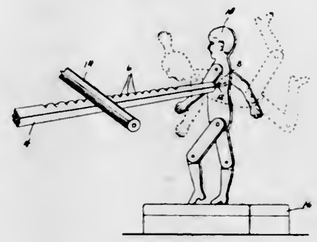
1. A vise comprising a frame consisting of a substantially horizontal base and a vertical standard, a jaw supported on said base, a second jaw movably mounted in the vertical standard of the frame and having a gripping surface arranged to diverge downwardly from the gripping surface of the other jaw at a slight angle thereto, and means adjacent the top of the standard of the base coöperating with said second jaw to move it downwardly and approximately longitudinally with respect to the gripping surface of said first-mentioned jaw into gripping position.

1,336,755. VISE. ROY PARMELEE, Chicago, Ill. Filed Aug. 6, 1915, Serial No. 44,079. Renewed Aug. 28, 1919. Serial No. 320,459. 7 Claims. (Cl. 81—33.)



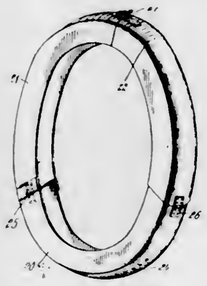
1. A vise comprising, in combination with a wrench including a jaw having a threaded shank and a frame equipped with an adjusting nut for moving said shank and jaw longitudinally and also including a second jaw and connected handle pivoted to said frame, a fixture in which such wrench is bodily received and which includes a frame having a base on which the longitudinally movable jaw of the wrench rests, and means in the frame adapted to force the other jaw to gripping position.

1,336,756. MECHANICAL TOY. WILLIAM F. PAUTZKE, Lawrence, Kans. Filed Apr. 10, 1918. Serial No. 227,633. 1 Claim. (Cl. 46—14.)



A mechanical toy construction comprising a bar provided with a longitudinal series of notches along one side thereof, a jointed dancing figure pivotally connected to one end of the bar, a member having a resounding surface associated with the feet of said figure, and an instrument adapted to be reciprocated in engagement with said notches for actuating said figure to simulate dancing movements and cause the feet of said figure to execute a clog dance on said surface.

1,336,757. TIRE-PROTECTOR. ISAAC RAFFELSON, New York, N. Y. Filed Feb. 28, 1919. Serial No. 279,765. 3 Claims. (Cl. 150—54.)

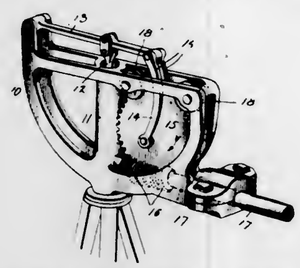


1. A tire protector comprising a lower member adapted to be secured to an automobile and two upper members, all of said members being of substantially the same length, hinge connections between the lower ends of the upper members and opposite ends of the lower member below the center of the tire, and means for fastening together the other ends of the upper members, said members being transversely bent to encircle the tread of a tire and having parallel sides extending inwardly to the rim flanges of the tire, and together adapted to encircle a tire.

1,336,758. WINDMILL-GEARING. GEORGE W. ROBERTS, Menard, Tex. Filed Jan. 27, 1919. Serial No. 273,352. 2 Claims. (Cl. 74—36.)

1. In windmill gearing, the combination of a horizontal wind wheel shaft, a worm thereon, a worm wheel resting

upon and meshing with the worm, bearings engaging the periphery of the wheel above its axis of revolution, a

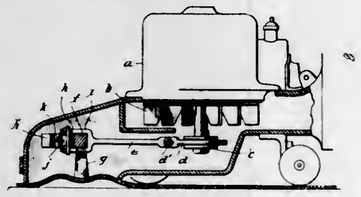


part to be operated, and means to transmit motion to said part from said wheel.

1,336,759. SOLUBLE CONDENSATION PRODUCT AND PROCESS OF MAKING IT. OTTO SCHMIDT, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 4, 1913, Serial No. 804,744. Renewed Sept. 3, 1919. Serial No. 321,464. 5 Claims. (Cl. 23—24.)

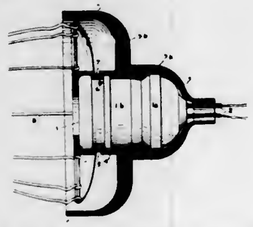
1. The new condensation products obtainable from naphthalene, sulfuric acid and formaldehyde, which products in the form of the free acids, are soluble in less than five parts by weight of water, practically colorless in the pure state and give no coloration with a solution of ferric chlorid, and are capable of tanning skins.

1,336,760. VACUUM-CLEANER. CLAUDE W. STEWART, Martinsburg, W. Va. Filed Mar. 13, 1919. Serial No. 282,262. 5 Claims. (Cl. 15—60.)



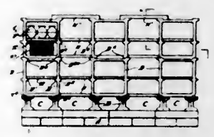
1. In a vacuum cleaner of the type set forth, an eccentric affixed to the shaft of the fan-motor, a reciprocable brush operated by the eccentric, and resilient means for suspending the brush in the nozzle chamber, said resilient means consisting of a flat spring arranged vertically edgewise within the nozzle chamber and affixed at its ends to the walls thereof and at a point between its ends to the brush body.

1,336,761. ELECTRIC SOCKET AND LAMP PROTECTOR. FREDERICK STOLZENWALD, San Francisco, Calif., assignor of one-half to August Wissel, San Francisco, Calif. Filed Apr. 7, 1919. Serial No. 287,970. 3 Claims. (Cl. 240—102.)



1. A protector of elastic insulating material formed to closely surround an electric lamp socket and having at one end an opening only sufficiently wide to permit the passage therethrough of two lamp cords and an integral bell-shaped flange extending from the mediate portion of said protector.

1,336,762. WARE-SUPPORT FOR CERAMIC FIRING. BERTRAM B. SWINNERTON, Beaver, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,631. 6 Claims. (Cl. 25—153.)



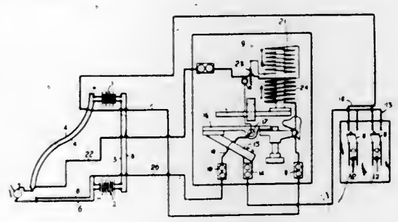
1. A ware support for ceramic firing consisting of an open ended tube of refractory material rectangular in cross section.

1,336,763. AUTOMOBILE-MUFF. ARTHUR R. THOMAS, Minneapolis, Minn. Filed June 14, 1919. Serial No. 304,304. 5 Claims. (Cl. 2—104.)



5. An automobile muff comprising a tubular member adapted to inclose the forward portion of the steering wheel rim, a track-engaging member adapted to be secured to the spider arms of the steering wheel so as to extend concentrically within the rim of the steering wheel, track members secured to said tubular member for coöperation with said track-engaging member, and means for clamping said tubular member in fixed position.

1,336,764. ELECTRICAL APPARATUS. WILLIAM I. THOMSON, Newark, N. J., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Feb. 16, 1917. Serial No. 148,927. 8 Claims. (Cl. 171—314.)

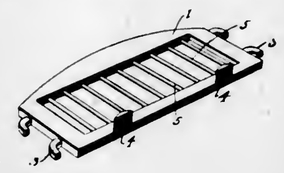


1. In apparatus of the class described, in combination, a storage battery, current utilizing means, a switch, a circuit comprising said battery, current utilizing means and said switch, and controlling means for said switch comprising a pair of normally differential coils adapted to open said switch by either increase of current in the magnetically weaker coil or decrease of current in the stronger coil.

1,336,765. PROCESS OF RECOVERING COBALT. MARVIN J. UDY, Kokomo, Ind., assignor to Haynes Stellite Company, Kokomo, Ind., a Corporation of Indiana. Filed Aug. 14, 1919. Serial No. 317,457. 5 Claims. (Cl. 204—15.)

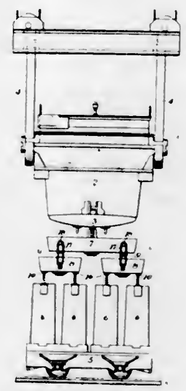
3. The process of recovering metals of the cobalt class from their ores which comprises submitting such an ore to a sulfating roast in the presence of sulfuric acid, extracting soluble sulfates with water, precipitating with calcium carbonate in the presence of air, removing copper by contacting the solution with metal of the kind to be recovered, precipitating with lime in amount merely sufficient to form a basic insoluble sulfate, electrolyzing a sulfate bath with an insoluble anode and dissolving portions of said basic sulfate therein in proportion to the observed tendency for the acidity of said bath to rise above a normal point.

1,336,766. FIRE-BASKET. BENJAMIN MARSHAL WARD and HIRAM GENTRY SMITH, Fayetteville, N. C. Filed Apr. 26, 1919. Serial No. 293,014. 1 Claim. (Cl. 126—165.)



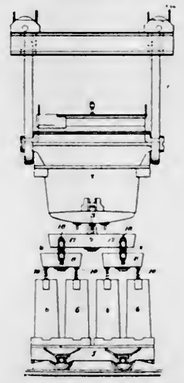
A fire basket including a front, a rear, and side walls, the side walls having openings therein, the front and rear walls having lugs projecting from their ends, said lugs having downturned ends, said lugs passing through the openings of the side walls and engaging the side walls whereby to secure the front, rear and side walls together, and a bottom wall supported within the aforesaid walls, and at the lower ends thereof.

1,336,767. METAL-CASTING APPARATUS. WILLIAM H. WARREN, Youngstown, Ohio, assignor, by direct and mesne assignments, to The Realty Trust Company and Rollin C. Steese, trustees, Youngstown, Ohio. Filed Dec. 6, 1916. Serial No. 135,306. 19 Claims. (Cl. 22—79.)



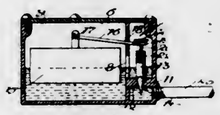
1. Metal-casting apparatus, comprising a casting ladle, a trough member arranged to receive the discharge from said ladle, and having a plurality of discharge nozzles, and other trough members supported in position to receive the metal discharge from the nozzles of the first named trough member, each of the second named trough members having a plurality of discharge nozzles, and means whereby the said trough members may be moved to vary the discharge at the different nozzles, substantially as described.

1,336,768. METAL CASTING. WILLIAM HOBART WARREN, Youngstown, Ohio, assignor, by direct and mesne assignments, to The Realty Trust Company and Rollin C. Steese, trustees, Youngstown, Ohio. Original application filed Dec. 6, 1916, Serial No. 135,306. Divided and this application filed Nov. 8, 1917. Serial No. 200,906. 7 Claims. (Cl. 22—209.)



1. The method of casting metal which consists in subdividing a stream of molten metal at a temperature considerably higher than the proper casting temperature and exposing the sub-divided stream to the atmosphere sufficiently to cool it to the proper casting temperature, then filling a plurality of molds simultaneously with the thus sub-divided and cooled stream of molten metal and controlling the relative rates of flow of the subdivided streams, substantially as described.

1,336,769. DEVICE FOR SUPPLYING WATER TO AUTOMOBILE-RADIATORS. WILLIAM WELSHAUSEN, Allenhurst, N. J. Filed Mar. 19, 1918. Serial No. 223,369. 3 Claims. (Cl. 137—68.)

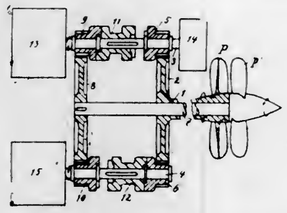


1. A water supply device of the class described including a float chamber, a valve chamber in communication therewith, a float within the float chamber, a valve within the valve chamber, a dividing wall between the chambers formed with an opening establishing communication between the chambers and with a second opening located above the first-mentioned opening and having its wall rounded longitudinally, and a lever arm connected with the float and operatively engaged with the valve and at an intermediate point loosely fulcrumed through said opening, the float chamber having an outlet opening and the valve chamber having an inlet opening and the latter being located below the valve.

1,336,770. ARRANGEMENT FOR DRIVING SHIPS' PROPELLERS. CHRISTIAN LUDWIG HEINRICH WITTMAACK, Zehlendorf, near Berlin, Germany. Filed July 23, 1918. Serial No. 246,406. 5 Claims. (Cl. 115—37.)

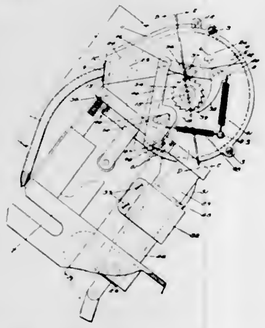
1. In an arrangement for driving ships' propellers in opposite directions, the combination of two parallel driv-

ing shafts rotating in opposite directions, two co-axial propeller shafts, on each of which is fitted a propeller, toothed wheels on said propeller shafts meshing with



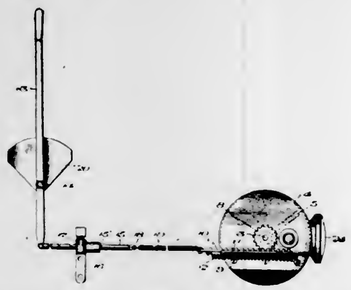
other toothed wheels fitted loose on the driving shafts, and clutches shiftable but not rotatable on said driving shafts engaging with the toothed wheels fitted on said driving shafts.

1,336,771. FEEDING MECHANISM. PIUS BAMMER, Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company, Portland, Oreg., a Corporation of Oregon. Filed July 27, 1914, Serial No. 853,310. Renewed June 17, 1919. Serial No. 304,917. 18 Claims. (Cl. 218—12.)



1. A feeding mechanism comprising a stationary hopper, a rotatable hollow cone shaped carrier in the hopper having conveying pockets on said conical portion adapted to elevate articles therefrom, an off-set portion formed in the hopper at one side thereof, the bottom of said off-set portion lying below the upper portion of the carrier as it rotates and adapted to receive the articles elevated thereby, and means for rotating the carrier.

1,336,772. TAIL-LIGHT AND TRAFFIC-SIGNALING DEVICE FOR AUTOMOBILES. WILLIAM JOHN BEGLEY, Arverne, N. Y. Filed May 12, 1917, Serial No. 168,181. Renewed July 8, 1919. Serial No. 309,478. 5 Claims. (Cl. 40—77.)



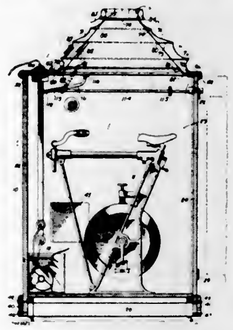
1. A tail-light and traffic signaling device containing a casing having two openings and a bull's-eye, an identification plate adjacent to one opening, an illuminating means arranged so that its rays shine through the tail-light and the openings, and a transparent means having signaling indicia thereon and movably located between the illuminating means and one of said openings only, and at one side of the other opening, whereby the rays of light pass through the transparent means to the first said opening, the rays of light to the other opening being unobstructed, whereby the light therethrough is always constant upon the identification plate.

1,336,773. SCREW. JOHN WILLIAM CALDWELL, Lebanon, N. H. Filed Dec. 14, 1916. Serial No. 136,867. 34 Claims. (Cl. 85—46.)



1. A screw having a point-end portion of the body thereof tapered to near a point, and having on such tapered portion a thread which increases in height from the large end toward the small end of said tapered point-end portion, and which at the point of the screw is provided with an incising blade.

1,336,774. CABINET FOR AN EXERCISING APPARATUS. JOHN J. COOPER, Stamford, Conn. Filed Mar. 8, 1919. Serial No. 281,368. 7 Claims. (Cl. 4—13.)

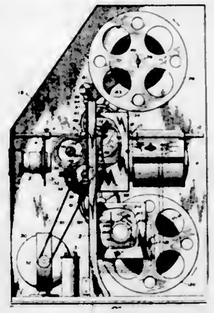


1. A cabinet for an exercising apparatus, comprising a cabinet body having a door for the ingress and egress of the person making use of the cabinet, the said cabinet body having a top provided with a hinged frame and a cover of a fabric material secured to the said frame, the said cover having a head and neck opening for the passage of the head of the user, and a protecting cape arranged within the said cover and detachably connected with the top.

1,336,775. MOTION-PICTURE MACHINE. NORMAN C. DARBY, Piermont, N. Y. Filed Apr. 11, 1916. Serial No. 90,317. 34 Claims. (Cl. 88—18.)

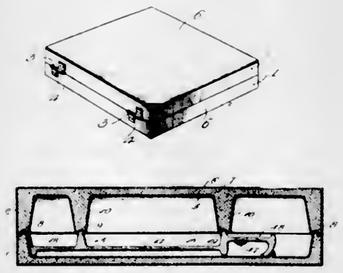
1. A motion picture machine including in combination intermittently operating film feeding means, means for reversing the direction of drive of said feeding means,

and a device having a member traveling proportionally to the travel of the film strip and settable for a desired



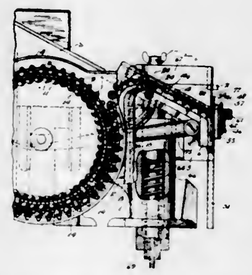
distance of such travel and operating to reverse the direction of the travel of film after the set distance has been fed.

1,336,776. FOOD-CABINET. CHARLES M. DRINKWATER, Kokomo, Ind. Filed May 22, 1919. Serial No. 299,023. 8 Claims. (Cl. 65—53.)



1. A cabinet comprising an upper hollow section, a lower hollow section, the engaging edges of said sections having tongue and groove engagement to form an insulating joint, the upper section having partitions, the lower section having partitions to engage with the first named partitions and certain of the partitions of the lower section being embodied in a removable tray arranged within the lower section, and detachable hinges connecting the upper and lower sections.

1,336,777. THREADING-MACHINE. WILLIAM E. ELLIOTT, Grand Rapids, Mich., assignor to American Button & Fastener Company, a Corporation of Maine. Filed Mar. 28, 1916. Serial No. 87,215. 51 Claims. (Cl. 218—11.)

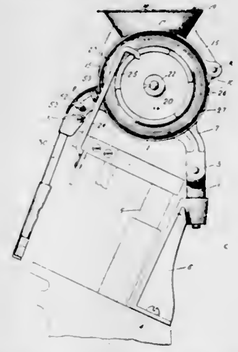


1. In a machine of the character described, a holder adapted to receive a plurality of buttons mounted one after another in a row on a narrow strip of material, a button carrying member adjacent said holder, and means positioned at one end of the member through which the strip is passed to demount buttons from said strip and deliver them to said member, substantially as described.

11. In combination, a button raceway, a staple raceway, means for controlling the contents of the staple raceway, means for receiving and resiliently grasping the end button from the button raceway and transferring it to a position to receive one leg of a staple released from the staple raceway, and means for ejecting the combined staple and button into a suitable magazine.

19. In a machine of the character described, a bar having a slot lengthwise thereof in its upper side, a rib extending lengthwise of the bar at each side of the slot and a cover over the bar spaced a distance therefrom and having spaced apart ribs on the under side lying lengthwise of the cover, substantially as described.

1,336,778. MACHINE FOR EFFECTING ORDERLY DISTRIBUTION OF ARTICLES. THEODORE GENSMER and GEORGE F. LIEBERMAN, Portland, Oreg., assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg., a Corporation of Oregon. Filed Nov. 11, 1914, Serial No. 871,601. Renewed June 17, 1919. Serial No. 304,918. 18 Claims. (Cl. 218—12.)



1. In a machine for the purpose described, the combination with a medial frame-piece and relatively movable cheek-bowls upon opposite sides of said frame piece constituting therewith a case, of an alining member extending into the space between the cheek-bowls adapted to make orderly alinement and discharge of articles supplied to it through the relative movement of the frame-piece and cheek-bowls.

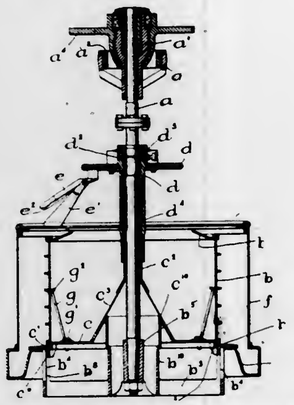
8. In a machine for the purpose described, a unitary structure comprising at one end a race way, and narrow tapering side walls projecting a short distance therefrom in parallel relation, said side walls then diverging to form a hopper for the reception of the articles to be supplied to the race way.

13. In a machine for the purpose described, a case comprising a rotative member, an alining member extending diametrically thereof, and a brush upon the rotative case member adapted through movement thereof to sweep lengthwise of the alining member to remove disalined articles therefrom.

1,336,779. CENTRIFUGAL MACHINE. ANGUS H. GIBSON, Salt Lake City, Utah. Filed Apr. 21, 1915, Serial No. 22,793. Renewed June 25, 1919. Serial No. 306,715. 10 Claims. (Cl. 210—35.)

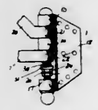
1. In a centrifugal machine the combination with a rotary shaft and a centrifugal basket secured thereto, a vertically movable bottom for sustaining the solid matter as it accumulates in the basket, means for raising and lowering said movable bottom to close and to open

respectively the lower end of the basket, said means being actuated automatically by the slowing down of the basket, substantially as described.



7. The combination of a rotary shaft suspended from an overhead support, a centrifugal basket secured to its lower end, a vertically movable bottom arranged to normally close the lower end of the basket, means mounted on the shaft between the basket and the overhead support to raise and lower said bottom automatically by the differential rotation of the basket and said raising and lowering means, and upwardly extended members connected with said bottom to engage and pull down the wall of sugar when the bottom is lowered, substantially as described.

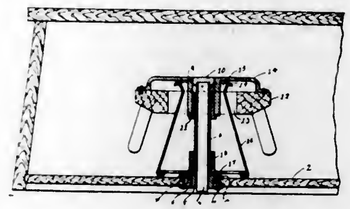
1,336,780. HINGE. TIMOTHY WM. HICKEY, Abington, Mass. Filed May 27, 1919. Serial No. 300,184. 2 Claims. (Cl. 16—112.)



1. A hinge comprising a fixed member including a base adapted for attachment to a door casing, and a plurality of fixed spaced apart pintle sockets, one at the upper end, another at the lower end, and the third between the ends of said base, the upper socket being internally polygonal, a pintle having a polygonal upper portion fitting the upper socket and prevented from turning by the latter, and a cylindrical portion, passing through the intermediate and lower fixed sockets, the pintle being provided with an adjustable abutment secured to its lower portion, between the lower and the intermediate fixed socket and vertically adjustable on the pintle, said adjustable abutment being formed by an upper nut and a lower nut, both engaged with a threaded portion of the pintle, and a tongue washer interposed between said nuts and engaged with a longitudinal groove in the pintle and a swinging member including a base, attachable to a door, and upper and lower movable pintle sockets on said base, the upper movable socket being interposed between the upper and intermediate fixed sockets, and the lower movable socket being interposed between the intermediate fixed socket and the adjustable abutment, the upper nut being locked in any adjusted position by the lower nut through the interposed washer.

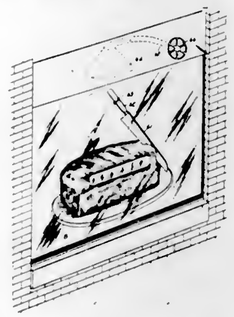
1,336,781. WASHING-MACHINE. HERMAN C. HIRSCHY, Minneapolis, Minn. Filed May 26, 1919. Serial No. 299,946. 9 Claims. (Cl. 259—134.)

1. The combination, with a washing machine tub and its dolly, of a guard interposed between the bottom of the tub and dolly and having walls for directing the clothes outwardly toward the walls of the tub, said dolly having



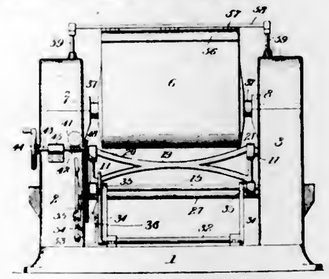
an opening therein into which the upper end of the guard projects, said opening permitting freedom of circulation of the water between the dolly and said clothes guard.

1,336,782. BAKER'S OVEN. WALTER G. HOPKINS, Buffalo, N. Y., and FRANCIS J. SULLIVAN, Boston, Mass., assignors to Atlas Bread Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1919. Serial No. 289,131. 27 Claims. (Cl. 107—59.)



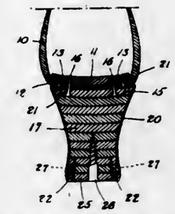
1. A baker's oven having, in combination, a casing comprising a hollow semi-cylindrical base with vertical ends, and a hollow cover therefor separable therefrom and comprising a curvilinear upper portion and oppositely disposed side and end portions extending downwardly therefrom and inclosing said base.

1,336,783. REVERSIBLE, DOUBLE-SPEED, FRICTION AND GEAR DRIVE FOR DOUGH-MIXERS. FRANK X. LAUTERBUR, Sidney, Ohio. Filed June 27, 1917. Serial No. 177,225. 20 Claims. (Cl. 259—135.)



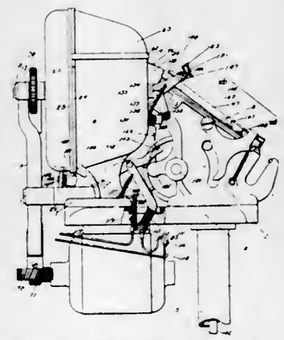
1. In a dough mixer, the combination with a rotatable element, of a reversible double speed friction drive including a friction wheel having spaced rim and hub portions, and a friction pinion operating between said rim and hub portions to rotate the rotatable element at high and low speeds and reverse and stop the same.

1,336,784. SHOE AND METHOD OF MAKING THE SAME. JAMES F. MARSHALL, Auburn, N. Y., assignor of one-half to Dunn & McCarthy, Binghamton, N. Y., a Corporation of New York. Filed Aug. 5, 1916. Serial No. 113,210. 3 Claims. (Cl. 12—147.)



3. The hereindescribed method of making a shoe, which consists in lasting the upper and insole, attaching an outsole, attaching a heel-blank, attaching a heel-cover to said heel-blank, coating the upper marginal portion of said heel-cover with adhesive substance, and tucking said marginal portion between the contiguous heel-seat portions of the upper and outsole.

1,336,785. MACHINE FOR EFFECTING ORDERLY DISTRIBUTION OF ARTICLES, PARTICULARLY BUTTONS. ALBERT J. MATTER and FREDRICK V. CONLEY, Portland, Oreg., assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg., a Corporation of Oregon. Filed Oct. 30, 1915, Serial No. 58,779. Renewed June 17, 1919. Serial No. 304,922. 22 Claims. (Cl. 218—12.)



1. In a machine of the kind described, the combination with a fixed hollow body, a rotary lifter-bowl juxtaposed thereto, and its driving mechanism, of means for effecting orderly discharge from the machine of articles supplied by rotation of the bowl, and an apertured partition wall transversely of said means separating the interiors of the bowl and body.

20. The combination with a hopper comprising a body, a movable member, an alining member in operative communication with the movable member for the purpose specified, and an electric motor for the movable member, of a major machine to which the hopper is subsidiary, an actuator on the major machine, and a switch including a movable electric terminal in operative communication with the actuator and adapted to make and break circuit through the motor.

1,336,786. MACHINE FOR ATTACHING STAPLES AND PARTICULARLY FOR ATTACHING BUTTONS TO ARTICLES. ALBERT J. MATTER, Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company, a Corporation of Oregon. Filed Aug. 20, 1915, Serial No. 46,469. Renewed June 17, 1919. Serial No. 304,923. 31 Claims. (Cl. 218—8.)

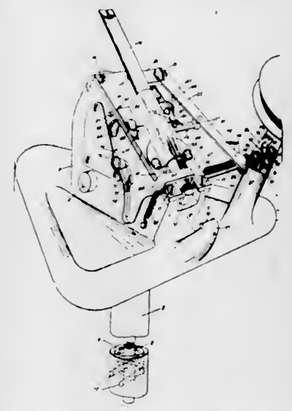
1. In a machine of the kind described, the combination with its frame, staple bender, staple driver, and staple shaper, of an oscillating actuating means, operative means severally and independently directly connecting the actuating means and the said bender, driver, and shaper, respectively, and means operatively connecting said bender and driver.



13. In a machine of the kind described, the combination with a frame, and members constituting staple forming and setting mechanism, including an actuator, of a power supplying member, and a single readily removable means for uniting the member last named and the actuator, said means having an operating projection formed thereon.

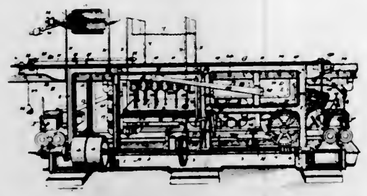
30. In a machine of the kind described, the combination with a frame, a staple forming and setting mechanism comprising a member movable shearwise against the face of the frame, of a shear plug inserted into the frame in operative juxtaposition to said movable member and provided with a slot having an inclined wall to define a sharp cutting edge in the plug.

1,336,787. BUTTON-ATTACHING MACHINE. ALBERT J. MATTER, Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company, a Corporation of Oregon. Filed Feb. 4, 1915, Serial No. 6,083. Renewed June 17, 1919. Serial No. 304,924. 26 Claims. (Cl. 218—8.)



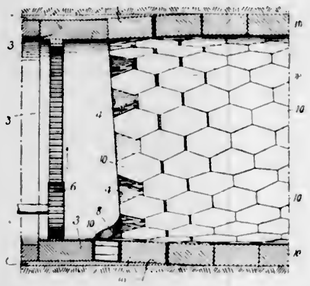
1. In a button attaching machine the combination with a staple bender and its case, of a main operating member, and actual immediate means and mediate means of connection between said bender and operating member, said means being operative successively in the order named.

1,336,788. BOTTLE FEEDING AND MOVING MECHANISM. JOHN C. MILLER, Covington, Ky., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio, a Corporation of Ohio. Original application filed May 21, 1906, Serial No. 317,913. Divided and this application filed June 13, 1917. Serial No. 174,614. 11 Claims. (Cl. 193—48.)



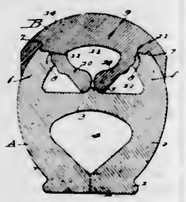
1. The combination of a support over and along which racks of articles are moved, rack advancing mechanism movable substantially parallel to said support for moving the racks therealong, a supplemental device movable substantially longitudinally of said support for moving each rack into position for engagement by said advancing mechanism, connections between said supplemental device and said advancing mechanism for moving it in one direction, and separate means for moving said supplemental device in the opposite direction.

1,336,789. BUILDING CONSTRUCTION. MILTON ROY SHEEN, Philadelphia, Pa., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 13, 1918. Serial No. 228,289. 3 Claims. (Cl. 61—45.)



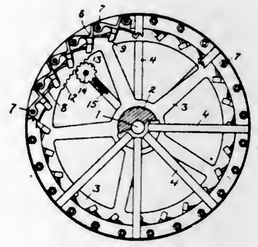
1. The method of constructing sewers comprising, the formation of a tunnel, constructing a lining within the tunnel of wedge shaped blocks with spaces between the ends of the blocks, and by expanding the diameter of the lining to fill the tunnel by forcing the blocks together endwise against the structure as it is formed.

1,336,790. VEHICLE-TIRE. EDWARD R. SIMMS, Scottdale, Pa. Filed June 11, 1918. Serial No. 239,419. 1 Claim. (Cl. 152—1.)



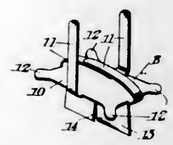
A tire of the kind described comprising a body section formed with relatively thick side walls having rim engaging beads, with a web interconnecting the side walls, with a centrally disposed rib on the web, and with extensions beyond the web having beads formed on their edges; a tread section formed with a body wall having recesses formed on its edges with which the beads on the said extensions engage, and with bracing members inturned and diagonally disposed from its edges and bearing upon the rib of the aforesaid web, and with a tread member formed with the body wall of the tread section and overlapping the extension on the body section.

1,336,791. WHEEL FOR TRACTORS. ELLSWORTH SNIDER, Monroeville, Ind. Filed Mar. 7, 1919. Serial No. 281,209. 2 Claims. (Cl. 21—209.)



1. In a tractor wheel, a pair of rims formed of angle iron and positioned oppositely so as to present outwardly projecting flanges to form the fixed tread of the wheel; a hub; two sets of spokes in connection respectively with the ends of the hub and the corresponding rims; an adjustably movable wheel concentrically mounted on the hub between the pairs of spokes and having at its outer perimeter an annular series of cams; an annular series of dogs, each having at one end thereof pivotal support between the rims and at its opposite end an outwardly projecting blade and an inwardly extending pair of slotted lugs that have engagement with one of the cams on the adjustable wheel, those portions of the dogs between their pivoted ends and their blades being adapted to be maintained uniformly in position flush with the fixed tread of the wheel when the dogs are adjusted to their outer positions; and means for adjusting the cam-wheel and for securing it in adjusted positions.

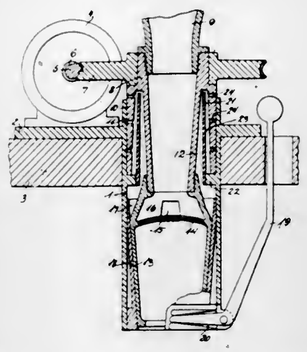
1,336,792. RAIL-TORPEDO SAFETY AND POSITIVE LOCK. HENRY BUSH SPENCER, Ottawa, Ontario, Canada. Filed Feb. 17, 1920. Serial No. 359,343. 3 Claims. (Cl. 246—487.)



1. A rail torpedo safety and positive lock comprising means for engaging a torpedo, and depending tongue means from the last said means adapted to be inserted in the joint of a rail.

1,336,793. VERTICAL COFFEE-MILL. KRISTEN SEVERIN STENBO, Copenhagen, Denmark. Filed Sept. 27, 1919. Serial No. 326,846. 8 Claims. (Cl. 83—13.)

1. A grinding mill, comprising a cylindrical casing provided with an oil chamber concentric therewith, a double-walled hollow shaft having its outer wall supported for rotation within said chamber, a grinding



member secured to the inner wall of said shaft and adapted to rotate therewith and a cooperating grinding member secured within said casing.

1,336,794. WRENCH. STEPHEN STEPANIAN, Columbus, Ohio. Filed Nov. 27, 1917. Serial No. 204,161. 1 Claim. (Cl. 81—120.)



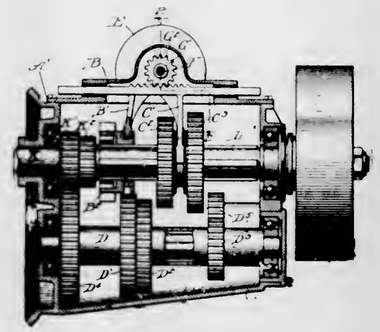
A wrench for removing or adjusting caps for grease cups and the like, comprising essentially a metal tube forming a handle, an extremity of said tube being longitudinally split and the split ends inclined outwardly to produce outwardly flaring jaw members, which members define a substantially conical cap receiving socket, and cap gripping teeth formed upon the inner socket surfaces of said members, substantially as set forth.

1,336,795. AUTOMOBILE-SIGNAL. JOSEPH SVAIGEL, Detroit, Mich. Filed June 13, 1919. Serial No. 303,957. 1 Claim. (Cl. 177—339.)



In an automobile signal, the combination of a support, a revoluble screw carried thereby, a cross head slidable in said support adapted to be reciprocated by a rotary movement of said screw, a tubular signal arm carried by said cross head and adapted to be moved in and out of said support, a signal on the outer end of said arm, an incandescent lamp carried by said signal, electrical connections through said signal arm to said lamp, contact strips on said support, contact members on said cross head engaging said contact strips and connected to said connections within said signal arm, and means adapted for rotating said screw in either direction.

1,336,796. ELECTRIC GEAR-SHIFTER. ASA J. TAYLOR, Jr., Chicago, Ill., assignor of one-half to Harry M. Thompson, Chicago, Ill. Filed Jan. 17, 1919. Serial No. 271,582. 30 Claims. (Cl. 74—58.)



1. In electric gear-shifting mechanism, the combination with a pair of gear-shifters, of a pair of armatures having shafts equipped with pinions geared to said gear-shifters, beyond one end of said armatures, one of said shafts being tubular and the other shaft extending therethrough, and a controller controlling the actuation of said armatures.

16. In gear-shifting apparatus, the combination of a gear-shifter, an armature for actuating the same, a controller case provided interiorly with a series of contacts and having a slot for the controller-lever to move in, a controller-lever mounted in said controller-case and having a detachable handle, a closure adapted to cover said slot when said handle is removed, and means for locking said closure.

1,336,797. PRESSURE-ROLLER FOR TYPEWRITING-MACHINES, &C. OTTO THIEME and FREDERICK OTTO MUELLER, St. Louis, Mo., assignors to Moon-Hopkins Billing Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 16, 1917. Serial No. 186,475. 4 Claims. (Cl. 197—138.)

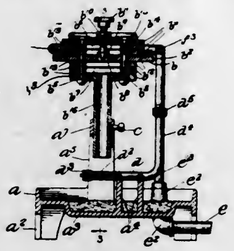


1. A pressure roller comprising a shaft, a frame mounted on said shaft and capable of pivotal movement thereon, a roller carried by said frame, a slotted flat spring mounted on said shaft and designed to cooperate with said frame, and means for adjusting the tension of said spring, said means comprising screws passing through said slot and into the shaft.

1,336,798. HYDROCARBON-BURNER. WALTER W. TODENWARTH, Roselle, N. J., assignor of one-half to Clarence E. Pryor, Jersey City, N. J. Filed May 15, 1919. Serial No. 297,253. 12 Claims. (Cl. 158—53.)

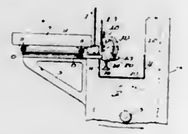
3. In a hydrocarbon burner, a burner head comprising a main central plate, supplemental plates placed above

and below the main central plate and forming in connection therewith top and bottom chambers, the central plate being provided with a port, a valve for controlling said port, and said main central plate and said supple-



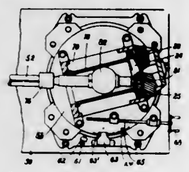
mental plate being provided therebetween with burner orifices, and the top supplemental plate being also provided with circularly arranged burner orifices over which is placed an annular deflector.

1,336,799. COMBINED WORK-TABLE AND GAGE. JAY W. VAUGHAN, Chicago, Ill. Original application filed May 26, 1919, Serial No. 299,718. Divided and this application filed Sept. 27, 1919. Serial No. 326,876. 5 Claims. (Cl. 143—168.)



1. In combination with a saw and a work table extending therefrom at one side, a flat member and means for supporting it at the other side of the saw in the plane of said table, said member being adjustably connected to its support to permit folding it into a plane perpendicular to that of the work table to serve as a gage, and means for securing said flat member at either position of its adjustment.

1,336,800. METHOD OF MACHINING HYDROCARBON-MOTORS. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 4, 1916. Serial No. 123,715. 14 Claims. (Cl. 29—148.)



1. The method of machining the combustion space of a motor cylinder consisting in relatively oscillating a rotary tool in the cylinder head while guiding the tool in the cylinder.

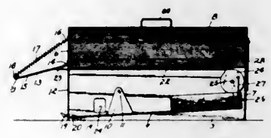
1,336,801. ELECTRICAL CONNECTOR. CLIFFORD R. WASSELL, Chicago, Ill., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill., a Corporation of New York. Filed May 4, 1916. Serial No. 95,296. 3 Claims. (Cl. 173—332.)

3. In an electrical connector, a pair of separable elements, a plurality of sockets in one of the elements and terminals in all but one of said sockets, a plurality of projecting contact members on the other element adapted for insertion into said sockets in various axial relations to produce different electrical connections, said socket and contact members being equidistant from each other



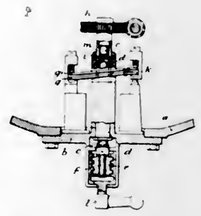
and from a common axis, and a projection on the contact carrying element to engage the socket element for preventing electrical engagement in a certain position but permitting electrical engagement in other positions.

1,336,802. HEN'S NEST. CHARLES WILLEFORD, Mount Pleasant, Iowa. Filed Dec. 19, 1919. Serial No. 345,921. 3 Claims. (Cl. 119—50.)



1. A hen's nest comprising a housing having an opening in one side; a door closing said opening; a floor pivoted to the housing on an axis at a substantial distance above said floor; a member pivoted to the housing above said nest; and rods connecting said members with said door and floor, said parts being arranged so that the weight of a hen on the floor adjacent the door tends to open the latter and when the weight of said hen moves to the other end of the floor her weight tends to close the door.

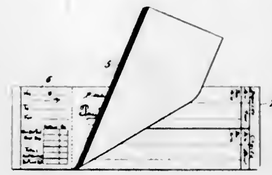
1,336,803. COMMON CAM-DRIVING DEVICE FOR ACTUATING THE PISTONS OF A PLURALITY OF PUMPS. EUGEN WOERNER, Stuttgart, Germany, assignor to the Firm of Robert Bosch Aktiengesellschaft, at Stuttgart. Filed Sept. 2, 1919. Serial No. 321,278. 4 Claims. (Cl. 74—1.)



1. In combination with a common driving device for actuating the pistons of a plurality of individual pumps arranged around a driving shaft, an oil collecting chamber containing a piston-actuating cam-disk divided in two halves and having its plane of division extending at right angles to the length of the driving shaft, a cam adjusting shaft for adjusting the distance between the halves of the cam-disk, and a handle outside of the oil collecting chamber for shifting the cam-adjusting shaft.

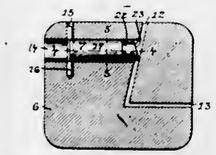
1,336,804. CHECK-BOOK. JOHN E. ALLEN, Pittsburg, Okla. Filed Oct. 9, 1918. Serial No. 257,521. 1 Claim. (Cl. 283—58.)

In a check book, a balance leaf equal in size to the leaves of said book, and placed below said leaves, said balance leaf being pivotally connected to the back of the book by means of a pivot, perpendicular to said back, said pivot being located adjacent to one of the inner



edges of the back, and the corner of the balance leaf adjacent to the pivot being shaped to permit the leaf to be swung laterally from its position beneath the book.

1,336,805. THREAD-LOCK FOR HAND-THREADING LOOM-SHUTTLES. JOHN VICTOR ALLEN, Providence, R. I. Filed Apr. 29, 1919. Serial No. 293,442. 1 Claim. (Cl. 139—27.)



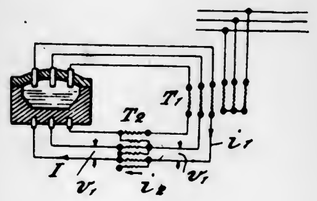
A thread lock for hand threading loom shuttles comprising a round shell having an internal longitudinal spline, a coiled spring in the shell, a bolt in the shell engaging the spring and having a longitudinal groove engaging the spline and a beveled outer end means for securing the thread lock in its operative position as described, in a hand threading loom shuttle and means for holding the thread lock from turning in the shuttle.

1,336,806. TANNED SPONGE. WILLIAM H. ALLEN, Detroit, Mich. Filed Sept. 13, 1919. Serial No. 323,631. 2 Claims. (Cl. 91—68.)

1. A tanned sponge.

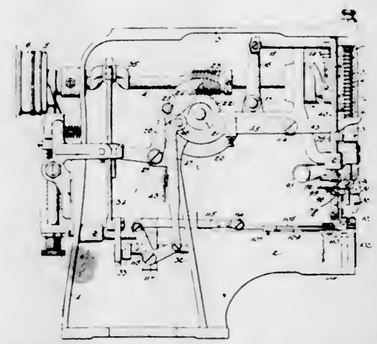
2. A sponge treated with soluble chromium salts and which retains combined chromium in insoluble form because of such treatment.

1,336,807. ELECTRIC FURNACE. LEONE ALMAGIA, Cornigliano Ligure, and ERALDO GUERRESCHI, Samplerdarena, Italy, assignors to Società Anonima Italiana Gio. Ansaldo & C., Cornigliano Ligure, Italy. Filed Sept. 23, 1918. Serial No. 255,377. 1 Claim. (Cl. 204—64.)



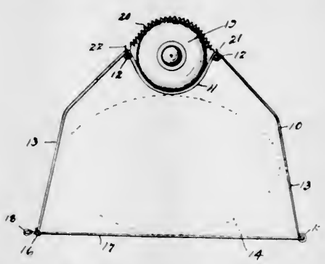
A device of the character described including a hearth, a cover therefor electrodes in the hearth and the cover, a transformer conducting wires between the transformer and the electrodes in the cover, other conducting wires between the transformer and the electrodes in the hearth, and a second transformer interposed in the last mentioned conducting wires and in series therewith.

1,336,808. THREAD-CUTTING MECHANISM FOR SEWING-MACHINES. WILLIAM L. BARRON, New York, N. Y., and FRITZ E. OSOL, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 3, 1916. Serial No. 112,907. 3 Claims. (Cl. 112—252.)



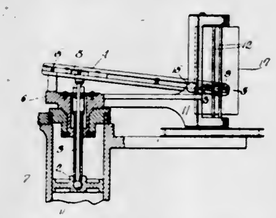
1. In a button sewing machine, the combination with a button-holder, a work-holding presser-foot, and upper and lower thread pull-off and severing devices, of button-holder lifting means and connections therewith for lifting the presser-foot and actuating the pull-off and severing devices.

1,336,809. NURSING-BOTTLE HOLDER. ERNEST J. BATTY, East Providence, R. I. Filed Sept. 18, 1919. Serial No. 324,394. 2 Claims. (Cl. 248—20.)



1. A holder for nursing bottles, comprising a wire frame folded to form a bottle supporting saddle portion having two supporting legs spread to straddle the body of an infant, a cross-bar detachably connecting the ends of the legs, and a flexible member arranged to extend from one portion of the saddle to another over the bottle to yieldably retain the same in the saddle.

1,336,810. ENGINE-INDICATOR. ADELBERT O. BENECKE, Boston, Mass., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a Corporation. Filed Jan. 8, 1915. Serial No. 1,201. Renewed Sept. 23, 1919. Serial No. 325,816. 4 Claims. (Cl. 234—21.)



1. In an engine indicator of the character described, in combination, a cylinder; a piston therefor; a piston rod;

a pencil mechanism support rotatably mounted on the cylinder and furnished with a vertical guideway; a pencil arm pivoted to the support and in slotted engagement with the piston rod; and a pencil in slotted engagement with the pencil arm and laterally confined by the guideway and vertically movable therein.

1,336,811. CLOSURE. ALBERT BENZINGER, Cincinnati, Ohio, assignor of one-half to Walter M. Schoenle, Cincinnati, Ohio. Filed June 13, 1918. Serial No. 239,777. 1 Claim. (Cl. 220—40.)



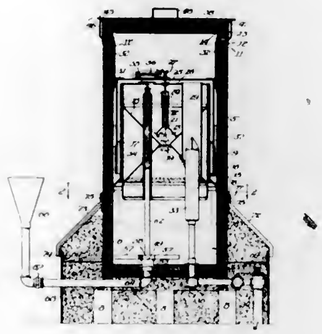
In a closure, two elements, one of which is adapted to fit in the other, said elements being adapted to be relatively rotated when the one element fits in the other, a boss on one of said elements, the other one of said elements having a groove admitting said boss when the one element is inserted into the other, said groove extending circumferentially and terminating in a pocket, and admitting said boss to said pocket when said boss is relatively rotated with the one element inserted in the other as aforesaid, one of said elements being adapted to close the other, and this one of said elements comprising a radially extended hollow annular rim of resilient material, thereby constituting yieldable means which permits said boss to be received in said pocket during said relative rotation.

1,336,812. JOINT FOR ARTIFICIAL LIMBS. GEORGE R. BOTT, New York, N. Y., assignor to The Norma Company of America, a Corporation of New York. Filed May 26, 1916. Serial No. 99,926. 5 Claims. (Cl. 64—36.)



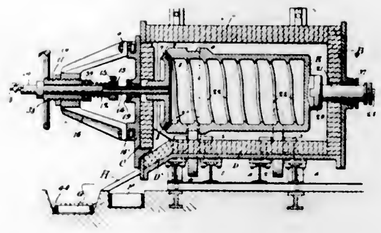
4. An improved joint of the character described, comprising a pair of members adapted to be pivotally swung relatively to each other, one of said members being provided with an enlarged transversely disposed cylindrical opening, the other of said members being provided with a forked end engaging the end of said first mentioned member and extending over the ends of said opening, a removable spindle extending between said forked ends, axially through said opening and spaced from the wall thereof, and antifriction means disposed within the space between said spindle and the wall of said opening, and comprising an inner race removably and slidably engaging said spindle, an outer race removably and slidably engaging the wall of said opening, and a plurality of antifriction members disposed between said races, a flange at one end of said opening adapted to prevent axial movement of said outer race in one direction, removal of said spindle adapted to permit disengagement of said forked end from said first mentioned member to expose said opening, said antifriction means being free to move axially of said opening to be removed therefrom, upon disengagement of said forked end.

1,336,813. ACETYLENE-GENERATOR. ROBERT D. BRADEN and CHARLES W. GRANT, Chicago, Ill., assignors to Oxweld Acetylene Company, Chicago, Ill., a Corporation of West Virginia. Filed Nov. 1, 1915. Serial No. 58,995. 4 Claims. (Cl. 220—9.)



2. An acetylene generator, comprising an insulating generator casing, a shell surrounding the lower portion of said casing and spaced therefrom, a cover for said shell comprising a plurality of interlocked sections extending between the upper edge of said shell and the outer surface of said casing, a body of heat-insulating material filling the space within said shell and cover, and means carried by said casing for detachably connecting said cover sections to said casing.

1,336,814. HEAT-TREATING FURNACE. RICHARD E. BROCK and STANLEY BOYCE, Canton, Ohio. Filed Sept. 6, 1919. Serial No. 322,189. 3 Claims. (Cl. 263—22.)



1. A heat treating furnace, having entirely inclosed within it a cylindrical container provided with an interior spiral groove from end to end thereof, and means for rotating said container, with reverse rotation periodically.

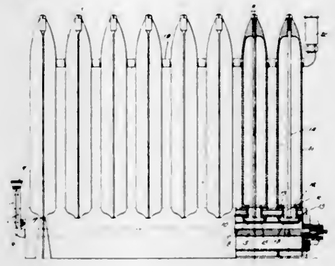
1,336,815. FISHING-TOOL FOR USE IN WELL-BORING. HUGH SLADE CAIRNS, Yenangyaung, Upper Burma, India. Filed Sept. 12, 1917. Serial No. 190,991. 1 Claim. (Cl. 294—110.)

A fishing tool comprising an intermediate piece adapted for being fixed to a drilling stem, a mandrel box having an inclined way and fixed to the said intermediate piece, a sliding body having a flat sided end; a mandrel head capable of movement in the said mandrel box, a steel ring on said mandrel head near its upper end, a pair of jaws having arms pivoted to the lower end of said mandrel head, a spring between the sliding body and said steel ring, a trip rod secured to the said sliding body and adapted to engage the steel ring when the spring is compressed between the said steel ring and the sliding body and also adapted to release said spring when the said inclined way of the mandrel box moves downward in contact with the end of the trip rod, diagonal slots in the flat sided end of the sliding



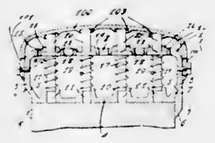
body and bolts in the arms of the jaws arranged to slide in the slots so that the jaws are pressed inwardly by the action of the spring when released.

1,336,816. RADIATOR. SOMERS T. CANADA, Atlanta, Ga. Filed Oct. 16, 1918. Serial No. 258,327. 2 Claims. (Cl. 237—16.)



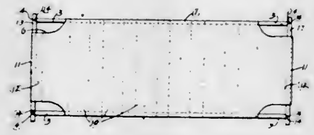
1. A radiator including a base, a lining extending longitudinally within the base and forming a water container, said lining being spaced circumferentially from the base and forming therewith a partial vacuum chamber the lining having openings out of communication with said vacuum chamber and extending through the base, radiator sections mounted on the base and each communicating through an opening with the water container, an electric heater housed within the water container, and means within the water container for simultaneously opening or closing the openings in the lining.

1,336,817. TIRE. EDWARD CARRAU, Chicago, Ill., assignor of one-half to William F. Walbach, Chicago, Ill. Filed Apr. 24, 1918. Serial No. 230,476. 1 Claim. (Cl. 152—38.)



In a device of the class described, a hollow member comprising a tread, a base and sides uniting the tread and the base; a trough-shaped casing inverted on said member and including sides coacting with the sides of said member; means for connecting the sides of the casing with the sides of said member for limited movement; plungers slidable in the base and bearing at their outer ends against the casing; heads on the plungers; compression springs abutting against the base and against the heads, the springs surrounding portions of the plungers; and caps receiving the plungers slidably and constituting abutments for the heads, the caps being threaded into the tread to permit an adjustment of the outer ends of the plungers with respect to the casing.

1,336,818. TABLE-TOP. ALFRED N. CLOUGH, Sunnyvale, Calif., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif., a Corporation of Nevada. Filed July 9, 1919. Serial No. 309,755. 4 Claims. (Cl. 45—31.)



1. A folding top for collapsible furniture including a sheet of flexible material adapted to be mounted on said furniture, a plurality of opposed and spaced pockets formed on the under side of said flexible sheet and arranged along the side edges thereof, and a supporting member of suitable proportions engaging each pair of opposed pockets and supported at its ends by said furniture.

1,336,819. HOLDER FOR SUBSTANCES TO BE CONSUMED BY ABRASION. JOHN C. COOK, New London, Conn. Filed May 10, 1918. Serial No. 233,777. 4 Claims. (Cl. 120—18.)

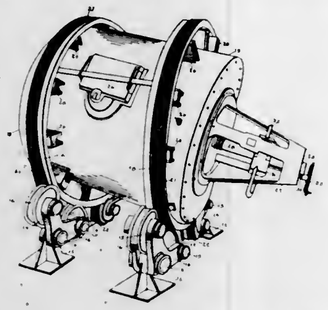


1. A device of the character described comprising a casing, a holder removably secured therein and having a magazine for substances to be consumed, means for holding a substance for use, and means adapted to be rotated to move said substance holding means for exposing the substance.

1,336,820. ELECTRIC FURNACE. EDWIN L. CROSBY, Highland Park, Mich. Filed May 3, 1918. Serial No. 232,349. 8 Claims. (Cl. 204—64.)

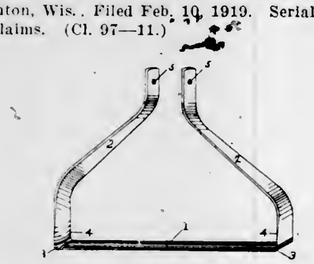
1. In an electric furnace, in combination with a refractory shell member provided with a vapor-tight door, a pair of electrodes adjustably engaging through the ends of said shell coaxially therewith, means for projecting and retracting said electrodes while permitting the maintenance of their coaxial position with respect to the shell member in all positions thereof, a pair of travel rings spacedly and variantly engaging about said shell

member with respect to the axis thereof, and means for imparting rotative movement thereto, thereby effecting



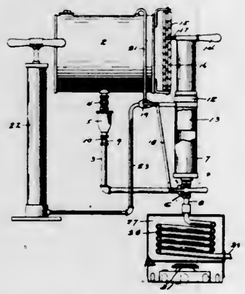
the rotation of the shell about an axis whose position relatively to the horizon is constantly varying during the period of rotation.

1,336,821. TILLAGE-BLADE. CHARLES E. CURTISS, Clinton, Wis.. Filed Feb. 10, 1919. Serial No. 276,171. 3 Claims. (Cl. 97—11.)



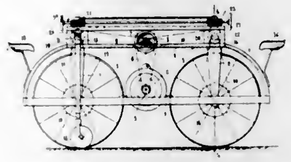
1. A tillage blade comprising a straight sharp blade having an extension at either end, each extension having two similar consecutive bends toward each other, transversely of, and on the same side of the blade, and one bend each in a reverse direction, resulting in a completed blade in which the longitudinal center lines of the extensions and of the blade all lie in the same plane, as shown and described.

1,336,822. APPARATUS FOR GASIFYING LIQUIDS. EDWARD H. CUYLER and MARK B. PATTERSON, Los Angeles, Calif., assignors, by mesne assignments, to the Pacific R & H Chemical Corporation, Los Angeles, Calif., a Corporation of California. Original application filed Aug. 9, 1918, Serial No. 249,060. Divided and this application filed July 2, 1919. Serial No. 308,251. 9 Claims. (Cl. 43—125.)



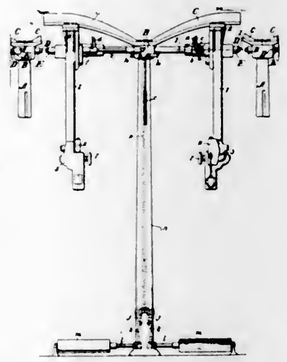
1. An apparatus for vaporizing liquid hydrocyanic acid, comprising a tank adapted to contain a quantity of such liquid, a receptacle into which liquid passes from said tank, a plunger in said receptacle adapted to be moved to vary the volume thereof, a measuring rack associated with said plunger to indicate the volume of the receptacle, and means for introducing air under pressure into said receptacle to eject the liquid therefrom into a vaporizer wherein heat is added to the liquid until it is vaporized.

1,336,823. TRACTOR. PAUL DESSAULES, Nanterre, France. Filed Jan. 7, 1918. Serial No. 210,758. 2 Claims. (Cl. 180—21.)



1. In a tractor, the combination of a frame; a bearing box rigidly mounted in each end thereof; a vertically-disposed fork rotatably mounted in each bearing box; a pair of traction wheels mounted between the arms of said forks to turn therewith, said wheels normally occupying a common vertical plane; a worm wheel secured to each fork; a steering rod disposed longitudinally of the frame and having a pair of worms thereon for engagement with said worm wheels, to turn both forks and traction wheels simultaneously when said rod is rotated; a motor mounted on said frame between said traction wheels; a pair of driving chains, one for each traction wheel, leading in opposite directions from the motor toward said traction wheels and connected with said motor to be driven simultaneously thereby; a chain leading from each first-named chain to the adjacent traction wheel to drive the latter from the former; a pair of vertical supports arranged on opposite sides of said frame and a pair of ground wheels rotatably connected with the lower end of said supports to maintain the tractor in vertical position.

1,336,824. SEWING-MACHINE. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Mar. 21, 1916. Serial No. 85,535. 31 Claims. (Cl. 112—63.)



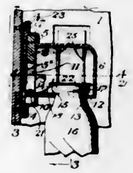
1. The improved structure providing, in combination, a stationary support, a sewing machine frame rigidly secured to and depending from said support and formed with a substantially horizontally disposed work-supporting arm adapted for the handling of tubular work and with a rigid needle-carrying bracket-arm, and stitch-forming and work-feeding mechanisms incorporated in said frame.

1,336,825. TRIMMING MECHANISM FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed June 30, 1917. Serial No. 177,857. 8 Claims. (Cl. 112—125.)



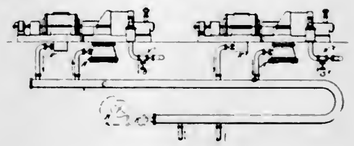
1. In a trimming mechanism for sewing machines, a movable trimmer-blade, a carrier for said blade, an actuating element, and means for coupling said carrier with said element including a disconnectible locking device of which the component members are mounted on said carrier.

1,336,826. SAFETY MILK-BOTTLE SUPPORT AND SANITARY PROTECTOR THEREFOR. DAVID DUNN, Philadelphia, Pa. Filed May 23, 1919. Serial No. 299,226. 8 Claims. (Cl. 232—42.)



1. In a device of the character stated, an attaching plate, runways on said plate, a slidable hood having its inner end occupying freely said runways, an inturned flange on the lower portion of the outer wall of said hood, a slidable resilient flap in said hood opposite to said flange, and means for supporting said flap, said flap and flange having therein recesses opposite to each other, and said hood being movable on said runways, and said flap being movable in said hood in directions at right angles to each other.

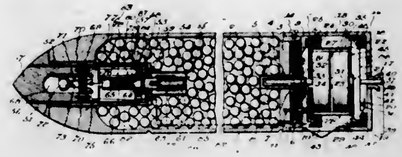
1,336,827. STEAM-TURBINE. RENÉ JULES DUPUY, Paris, France, assignor to Compagnie Generale D'Electricite, Paris, France, a Corporation of France. Filed Dec. 7, 1917. Serial No. 205,969. 2 Claims. (Cl. 253—1.)



1. The combination with a series of air circulating machines, a series of turbines for operating the same, an air trunk, pipes leading from the air circulating machines to conduct hot air to said trunk, and pipes leading from the trunk to the turbines to selectively conduct hot air to the turbines.

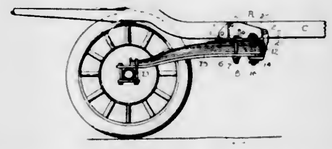
1,336,828. EXPLOSIVE SHELL. DANIEL GORDON EDWARDS, Woodlawn, Tenn. Filed Feb. 18, 1918. Serial No. 217,917. 9 Claims. (Cl. 102—39.)

4. The combination with an explosive shell, of an electrical detonator therefor, a pilot carried by the shell, a pilot ejecting explosive charge arranged upon detonation to drive said pilot away from the shell in advance thereof, an electrical detonator for the pilot charge, electrical circuit connections extending between the pilot and the shell detonator switching means in said circuit connections carried by the pilot and operable upon contact of the pilot with an object to close the circuit of the shell detonator through said circuit, a circuit for said pilot charge deto-



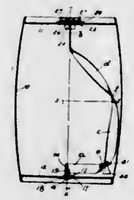
nator, a source of current for said circuits, and a master switch responsive to the flight of the shell through the air to connect the circuit of the pilot charge detonator with the source for energization thereof and to partially complete the connection of said shell detonator with said source for final completion by said pilot switch.

1,336,829. BRACKET FOR VEHICLE-SPRINGS. FLOYD C. EWING, Jeromesville, Ohio. Filed Feb. 21, 1919. Serial No. 278,314. 8 Claims. (Cl. 267—54.)



1. A bracket for a leaf spring having a side portion with a flat clamping face at its bottom and provided with a seat for the end of the spring diagonally inward from said face and separate means rigidly securing said spring to said clamping face and said seat respectively.

1,336,830. BARREL-AGITATOR. CHARLES E. FARRINGTON, Philadelphia, Pa. Filed Aug. 28, 1918. Serial No. 251,786. 21 Claims. (Cl. 259—134.)

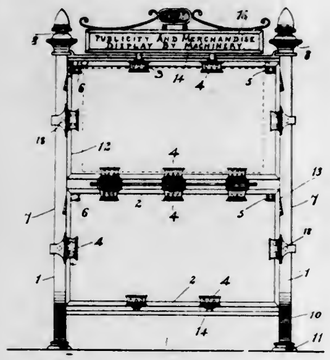


1. The combination with a barrel or container having a bung-hole, of a flat stirrer blade therein revoluble about the axis of the barrel and having a portion intermediate its ends eccentric in respect of said axis, and means by which the opposite ends of said blade are journaled respectively within the barrel.

1,336,831. FRAMEWORK FOR DISPLAY PUBLICITY BY MACHINE. CLIFTON R. FINCH, Newark, N. J. Filed Aug. 17, 1916. Serial No. 115,530. 3 Claims. (Cl. 211—20.)

1. A supporting device comprising a pair of standards, each including sections joined rigidly together over substantially their entire lengths, said section having divergent lower ends, the divergent lower ends of the

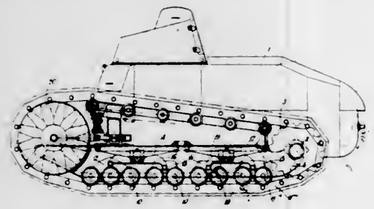
sections of one standard being parallel with the divergent lower ends of the sections of the other, a plurality of horizontally disposed frames located one above another between the standards and supported thereby and projecting to the front and rear thereof, and rails mounted on some of said frames and extending substantially perpendicular to the plane of the standards to carry objects to be exhibited.



2. A supporting device comprising a pair of standards, each including sections joined rigidly together over their entire lengths, said sections having divergent lower ends, the lower ends of the sections of one standard being parallel with the lower ends of the sections of the other, a plurality of frames disposed horizontally and located one above another between said standards, and supported thereby and projecting to the front and rear of said standards, and rails mounted on some of said frames to carry objects to be exhibited, said rails extending substantially perpendicular to the plane of the standards, said frames and said rails being within the area of the base of the device.

3. A frame work for display comprising vertical standards, horizontal frames between the same, means for connecting said frames together in pairs extending vertically between said frames, parallel rails on some of said frames and extending substantially perpendicular to the plane of the standards, said rails being adapted to carry frames having rollers at each side to engage the rails.

1,336,832. SUSPENSION DEVICE FOR CATERPILLAR-VEHICLES. ERNEST FUCHS, Billancourt, France, assignor to Louis Renault, Billancourt, France. Filed Sept. 12, 1917. Serial No. 191,923. 14 Claims. (Cl. 21—150.)

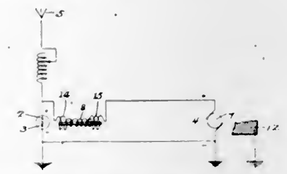


1. In a caterpillar vehicle, the combination with a body, of a pivoted bearer mounted thereon, a lever carried by the bearer, bogies carried by the lever, rollers carried by the bogies, and a caterpillar passing under said rollers.

2. In a caterpillar vehicle, the combination with a body, of a bearer connected thereto, levers carried adjacent to the front and rear ends of said bearer, bogies carried by the levers, rollers carried by the bogies, and a caterpillar passing under said rollers.

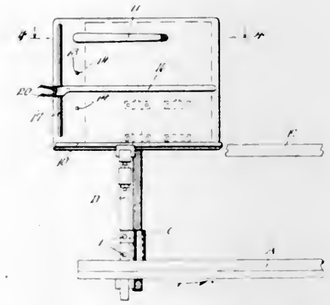
8. In a caterpillar vehicle, the combination with a body, of a bearer pivoted thereto at one of its ends, levers carried adjacent to the front and rear ends of the bearer, a spring connection between each of the levers and the bearer, a bogie carried by each lever, rollers mounted on the bogies, and a caterpillar passing under the rollers.

1,336,833. RADIOTELEGRAPHY. LEONARD F. FULLER, San Francisco, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed May 21, 1917. Serial No. 169,895. 1 Claim. (Cl. 250—36.)



In a radio telegraph transmission system, a direct current generator having a grounded frame and an armature grounded on one side, two electrodes between which an arc is formed, one electrode being connected to the ungrounded side of the armature and the other to the grounded side of the armature, an antenna circuit connected to the electrode on the ungrounded side, a magnet pole arranged adjacent the gap between the electrodes, a choke coil connected to the ungrounded electrode and surrounding the pole and a magnetizing winding surrounding the pole and connected to the choke coil and to the ungrounded side of the armature.

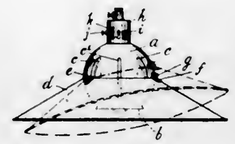
1,336,834. COPY-HOLDER. ALEXANDER S. GOLANKE, Milwaukee, Wis. Filed May 5, 1919. Serial No. 294,839. 7 Claims. (Cl. 24—66.)



1. A device of the class described comprising a platen having a hole adjacent one side edge, a retaining arm, a stud extending laterally from the arm and through said hole, coöperating means on the stud and the wall of the hole to prevent rotation of said arm, and means on the end of the stud for retaining the same in the hole.

1,336,835. SHADE-SUPPORT FOR GAS-BURNERS AND ELECTRIC LIGHTS. FREDERICK JOHN GOULD, London, and EDWARD SMALLWOOD STAMP, Birmingham, England. Filed Oct. 30, 1918. Serial No. 260,410. 2 Claims. (Cl. 240—115.)

1. In a light shade, the combination of a shade holder; a hollow substantially spherical member having slots whereby said member is attached to said holder; a conoidal reflector having an opening to receive said spherical member; trunnions on said conoidal reflector disposed diametrically opposite each other and adjacent said opening, said trunnions being adapted to extend into slots in the spherical member whereby the reflector is connected



therewith to be adjusted thereon; and a clamp on said conoidal reflector adapted to engage the spherical member to hold the reflector in adjusted position thereon.

1,336,836. PAPER-SUPPORT FOR COMBINED ADDING AND TYPEWRITING MACHINES. CORBIN L. HARVEY, St. Louis, Mo., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 1, 1918. Serial No. 219,799. 3 Claims. (Cl. 197—127.)



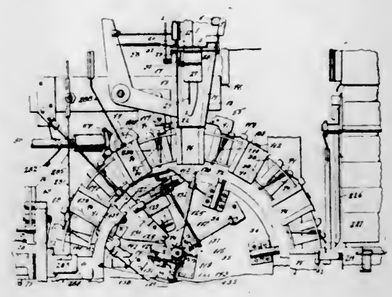
1. A paper holder comprising a back plate whose lower edge is located above the platen, a platen and its individual paper guiding devices, and rocking means located in front of said back plate and coöperating with the lower edge thereof to support a sheet of paper against said back plate.

1,336,837. ILLUMINATING APPARATUS. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Dec. 6, 1917. Serial No. 205,715. 8 Claims. (Cl. 240—48.4.)



1. In an illuminating apparatus, the combination of a light-source, a light-concentrating and projecting reflector, a lens having a plain portion located below the axis for transmitting some of the rays as a beam without substantial deflection, a plurality of generally radial prismoids radiating from said plain portion below said axis, and means above said axis for intercepting upwardly directed rays.

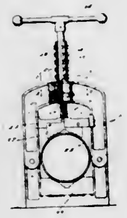
1,336,838. WRAPPING, CARTONING, AND PACKING MACHINE. THOMAS E. HEETER, St. Louis, Mo., assignor to Wm. Waltke & Company, St. Louis, Mo., a Corporation of West Virginia. Filed Oct. 29, 1915 Serial No. 58,693. 26 Claims. (Cl. 93—2.)



1. A machine of the class described, comprising in combination a conveyer, means for feeding cartons, having flaps, to the conveyer, means for feeding articles to the cartons on the conveyer, and means in the path of the cartons on the conveyer for folding the flaps of the cartons and inserting certain of same into the ends of the cartons.

17. In combination with a magazine for holding a number of cartons in the flat, means for agitating and holding the cartons in vertical alinement, a plate and a fin carried by the plate for removing the cartons one at a time from the magazine and opening the same.

1,336,839. QUICK SETTING MECHANISM. GEORGE S. HULL, Columbus, Ind. Filed Feb. 3, 1919. Serial No. 274,603. 8 Claims. (Cl. 81—17.)

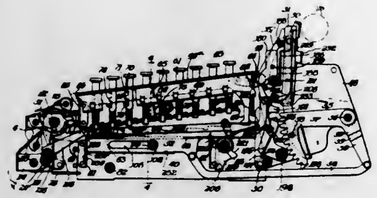


1. In a quick-setting mechanism, the combination of a screw, a sleeve in which said screw is mounted, said sleeve being provided with a longitudinal row of teeth on its outer surface, a frame having a hole in which said sleeve is axially slidable, and an internally slotted ring mounted in said frame around said sleeve and rotatable to move the slot on its inner surface into or out of registry with said row of teeth.

1,336,840. LISTING MACHINE. OLIVER D. JOHANTGEN, Chicago, Ill., assignor, by mesne assignments, to The Victor Adding Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 4, 1918. Serial No. 210,301. 58 Claims. (Cl. 235—60.)

1. In a listing machine or the like, in combination, a type bar, means for moving the bar to a plurality of different adjusted positions, a rectifying member operable upon the type bar in its various adjusted positions, a printing hammer, a hammer lock, and operative connection between the hammer lock and the rectifying member, whereby movement of the rectifying device imparts movement to the hammer lock.

10. In a listing machine or the like, in combination, a type bar pivotally supported at one end and longitudinally adjustable across the printing line, a lever pivotally supported in rear of the type bar and making contact therewith at one end in substantial alinement with the printing line in any adjusted position of the type bar, and a swinging hammer engageable with the other end of the lever.

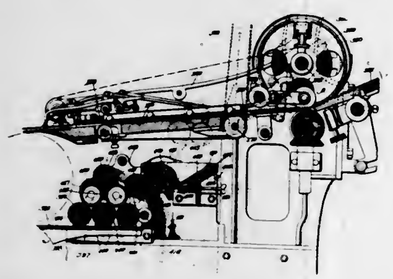


14. The combination with the key stems of a row of keys of a calculating machine, of a pair of spring-pressed swinging plates between which the key stems slide, cooperating cam lugs and shoulders on the plates and key stems, a spring-advanced sliding rack bar, a rack bar stop carried by one of the plates, a wedge movable between the plates for separating them to release the key stems and the rack bar, a total key, and connection between the total key and the wedge.

23. In a machine of the kind described, in combination, a plurality of locked, spring advanced rack bars, means associated with each rack bar adapted to release said bar and determine the range of its movement, an actuating member for returning the rack bars after their advance movement, and a friction drag between the actuating member and the rack bars.

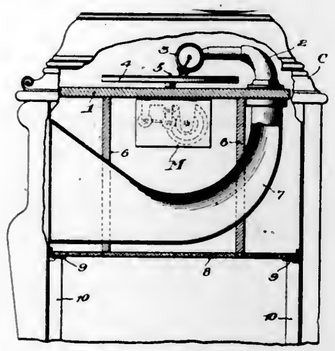
33. In a listing machine or the like, in combination, an accumulator, printing mechanism including type bars and a movable ribbon guide, a ribbon shift key controlling the movement of the ribbon guide, rack bars controlling the type bars and normally coöperating with the accumulator, a non-add key operable upon depression to interrupt the coöperation of the rack bars with the accumulator, and a latch controlled by the ribbon shift key normally preventing depression of the said non-add key.

1,336,841. PRINTING-PRESS. WILLIAM M. KELLY, Jersey City, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Feb. 20, 1914, Serial No. 820,042. Divided and this application filed Jan. 18, 1918. Serial No. 212,476. 11 Claims. (Cl. 101—345.)



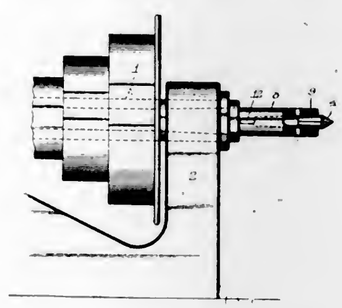
1. In a printing press, the combination of a pivotally mounted feed board, a pivotally mounted frame carrying sheet feeding means arranged over the feed board and adapted to be swung upwardly therefrom, a pivotally mounted frame below the feed board, and inking rolls carried by the latter frame.

1,336,842. MECHANISM-SUPPORT FOR TALKING-MACHINES. JOSEPH C. KENNEY, Scottdale, Pa. Filed Apr. 21, 1919. Serial No. 291,473. 2 Claims. (Cl. 274—2.)



1. In a talking machine, the combination with the cabinet, of a glass plate constituting a resonant rest, and a mechanism carrier supported solely on said glass plate.

1,336,843. CENTER. JAMES KERMATH, Detroit, Mich. Filed May 24, 1919. Serial No. 299,452. 1 Claim. (Cl. 82—33.)



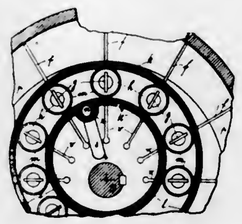
A lathe center assembly comprising a center element and a holding element, said holding element having a tapered exterior adapted to fit the usual center-receiving opening of a lathe, said holding element also having its opposite end formed with an axial bore tapering inwardly and an opening extending diametrically and intersecting the bore at approximately right angles to the bore axis, said center element having its advance end tapered to provide the centering point and the rear of its body portion tapered rearwardly in correspondence with the taper of said bore, the length of the tapered body being sufficient to locate the rear end of the element exposed within the dimensions of said opening, whereby the center element may be removed from the holding element while the latter is in position on the lathe by the operation of a tool insertible through the opening.

1,336,844. CRUTCH. FRANK KLOUSNITZER, Crafton, Pa., assignor of one-half to Robert Sommer, Pittsburgh, Pa. Filed July 14, 1919. Serial No. 310,584. 2 Claims. (Cl. 135—54.)

2. A crutch comprising a shank having a handle forming element projecting thereabove and further having a pocket in its lower portion, a sleeve secured to and depending from the shank, a disk secured within the sleeve against the lower end of the shank, a stem, a sleeve secured to and extending above the stem and into the sleeve carried by the shank, a disk secured within the sleeve carried by the stem, a bolt secured to the second mentioned disk and extending through the first mentioned disk and into said pocket, and a coiled spring interposed between said disks and surrounding said bolt.

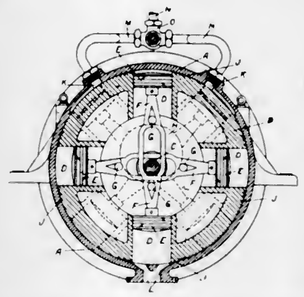


1,336,845. ROTARY ENGINE OR PUMP. KARL G. KUTCHKA, Youngstown, Ohio. Filed July 11, 1918. Serial No. 244,500. 4 Claims. (Cl. 230—30.)



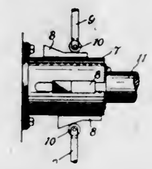
1. In a rotary engine, compressor or pump, a cylinder having an in-let and an out-let opening, in combination with a rotating piston eccentrically mounted therein and provided with grooves in which reciprocating blades are carried, rings to control the movement of said blades, and a pin carried by each of said rings and slidably engaging a radial slot in the end of the piston.

1,336,846. ENGINE. THOMAS EDGAR LEWIS, Penygraig, Rhondda, Wales. Filed Oct. 8, 1915. Serial No. 54,847. 2 Claims. (Cl. 121—59.)



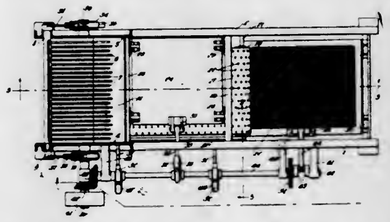
1. A rotary engine comprising an outer casing provided with inlet and exhaust chambers, a cylinder body rotatable within the casing, opposed cylinders formed in the cylinder body, central driving shaft to which the cylinders are rigidly connected, pistons directly coupled together in pairs, yokes connecting said pairs of pistons, projecting devices carried by said yokes, a cam path with which said cam projections coöperate, means for tumbling said cam to vary the steam cut off and effect reversal of the direction of rotation of the cylinder body and its connected driving shaft.

1,336,847. MOTION-CONVERTING DEVICE. THOMAS EDGAR LEWIS, Rhondda, Wales. Filed Aug. 7, 1916, Serial No. 113,654. Renewed Oct. 11, 1918. Serial No. 257,791. 2 Claims. (Cl. 74—1.)



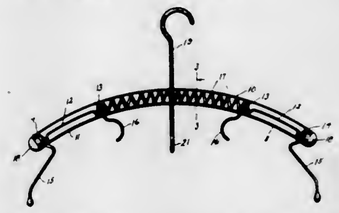
1. A device for converting rotary motion on a shaft into reciprocating motion comprising a rotating member, a stationary sleeve provided with slots, slidable cams rotated in each slot of said sleeve, and a slipper or slippers essentially of V-section connected to each cam and engaging in threads of V-form cut in the member rotating within the sleeve.

1,336,848. SEPARATING-MACHINE. CHARLES H. MCARTHUR, Cleveland, Ohio. Filed Nov. 7, 1919. Serial No. 336,333. 6 Claims. (Cl. 83—35.)



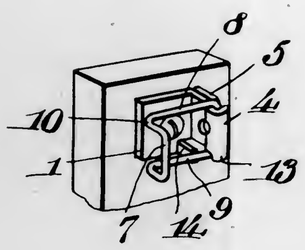
1. In a separating machine, the combination of a traveling belt on which the material to be separated is placed, and a plate vibrating laterally above the belt, said belt and plate being provided with teeth adapted to engage said material.

1,336,849. GARMENT-HANGER. ANDREW A. MCCAFFREY, Providence, R. I. Filed Feb. 24, 1920. Serial No. 360,689. 3 Claims. (Cl. 211—13.)



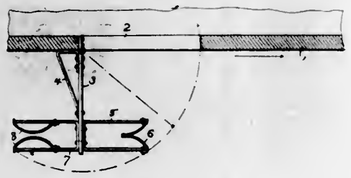
1. A garment hanger comprising a tubular bar curved to receive and support the shoulder portions of a garment, said tube being slotted on its under side for a portion of its length on each side of its center, garment-engaging members slidably mounted in opposite ends of said tube, each being provided with an arm extending through one of said slots, a spring in said tube pressing said members apart, and means whereby said members may be engaged to be drawn toward each other against spring pressure to receive the garment.

1,336,850. CONNECTOR FOR ELECTRICAL CONDUCTORS. HOSEA F. MAXIM, Norfolk, Va., assignor of one-half to Otto Wells, Norfolk, Va. Filed Mar. 19, 1913, Serial No. 755,506. Renewed July 19, 1919. Serial No. 312,111. 15 Claims. (Cl. 173—259.)



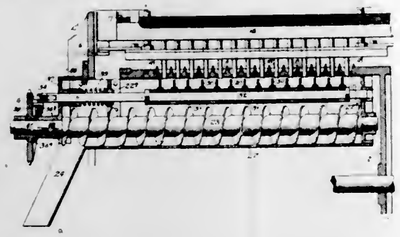
2. In a wire holding clip for batteries, the combination of an abutment, an oscillatory rod positioned closely adjacent the abutment and having a flattened surface whereby a wire lying perpendicularly to the rod can be received between it and the abutment, corners being formed at the ends of the flattened surface whereby the wire is forced against the abutment when the rod is turned, and means automatically tending to turn the rod to bring one of the said corners into engagement with the wire.

1,336,851. MAIL-BAG CATCHER AND DELIVERER. STEVE MISCO, Gary, W. Va. Filed Sept. 5, 1919. Serial No. 321,802. 2 Claims. (Cl. 258—13.)



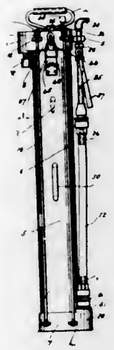
1. In mail handling apparatus, a swinging arm, a bracket mounted on one side of the arm and movable therewith and constituting a stop to limit the swinging movement thereof in one direction and a catcher and deliverer carried by the arm.

1,336,852. CHERRY-PITTER. THEODORE F. MORSE, Silver Creek, N. Y., assignor to Huntley Manufacturing Co., Silver Creek, N. Y., a Corporation of New York. Filed Jan. 7, 1920. Serial No. 349,940. 10 Claims. (Cl. 146—5.)



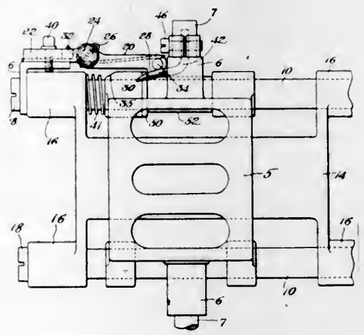
1. In a pitting machine, the combination of a drum having cells therein for the fruit, pitter-knives for removing the pits from the fruit and operating through the cells, a series of wipers movable longitudinally of and in the drum, and means for reciprocating the wipers.

1,336,853. LUBRICATOR. LAUDIE J. MRUK, Butte, Mont. Filed July 9, 1919. Serial No. 309,601. 1 Claim. (Cl. 221—47.)



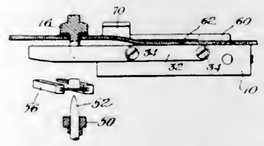
A lubricator, comprising a tubular shell, interchangeable top and bottom caps removably secured to the ends of the shell and having integrally-formed pipe connections on one side, an air inlet valve connected to the lower side of the pipe connection of the top cap, and an outlet pipe for lubricant connected to the upper side of the pipe connection of the bottom cap and provided with a flexible section and a regulating valve.

1,336,854. POSITIONING DEVICE FOR EYELET AND HOOK SETTING MACHINES. LORENZ F. MUTHER, Newton, Mass. Filed May 10, 1918. Serial No. 233,690. 14 Claims. (Cl. 218—15.)



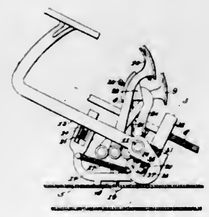
1. In an eyelet or hook setting machine, the combination of a laterally movable frame carrying a punch bar, means for locking said frame at the end of its feeding movement, means for holding the frame in engagement with said locking means and means for releasing the locking means by the upward movement of the punch bar.

1,336,855. EYELETING-MACHINE. LORENZ F. MUTHER, Newton, Mass. Filed May 10, 1918. Serial No. 233,691. 27 Claims. (Cl. 218—15.)



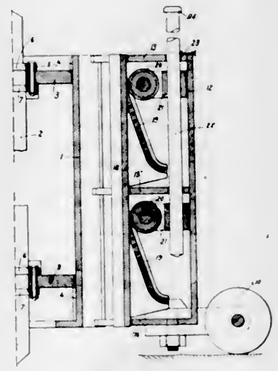
1. An eyeleting machine having, in combination, a tool for spreading apart the threads in a fabric to form a hole, said tool being arranged to feed the material, a support for holding the fabric while said hole is being formed, said support being split to permit said tool to form the hole and feed the material, and means for clenching an eyelet in the hole so formed.

1,336,856. AUTOMOBILE-CONTROLLING DEVICE. FRANK W. NORTON, Minneapolis, Minn. Filed July 21, 1919. Serial No. 312,210. 14 Claims. (Cl. 74—81.)



1. In combination with the clutch-pedal and brake-pedal of a motor vehicle, an auxiliary pedal, a rock-shaft to which it is attached, and arms projecting from said shaft to engage the rear of the clutch and brake-pedals, respectively, and push the one to neutral, and the other to braking position.

1,336,857. MOLD FOR MANUFACTURE OF CONCRETE PIPES. ANTOINE PORRI, Bone, Algeria. Filed Jan. 6, 1919. Serial No. 269,845. 3 Claims. (Cl. 25—127.)

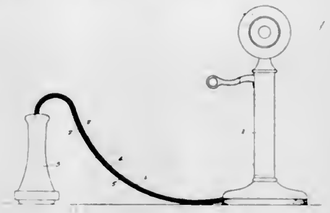


1. An apparatus for making concrete or reinforced concrete pipes comprising an inner mold and an outer mold, said inner mold consisting of a plurality of independent plates, means for supporting the plates in their operative positions, said means being operable to collapse the plates, the outer mold comprising a plurality of supporting plates and means for forcing the latter toward the plates of the inner mold.

1,336,858. LEATHER SUBSTITUTE. JOHN D. PRINCE, Boston, Mass. Filed Dec. 7, 1918. Serial No. 265,760. 4 Claims. (Cl. 106—23.)

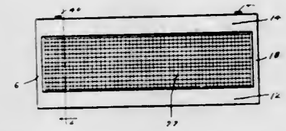
1. A composition of matter useful as a leather substitute, comprising rubber and wax of the Montan class, whereby the said composition of matter has the tough, slow-flexing qualities of leather and is devoid of the springy, elastic qualities of rubber.

1,336,859. TELEPHONE-CORD. ANTHONY REIHING, East Toledo, Ohio. Filed Oct. 15, 1919. Serial No. 330,819. 1 Claim. (Cl. 179—146.)



In combination with the conducting cord leading from the base to the receiver of a telephone, means for preventing twisting or kinking of the cord comprising a length of resilient wire disposed against the cord and secured at one end to the receiver and at the other end to the base, said wire being of the same length as the cord contacting therewith throughout its length, and said wire being formed at spaced intervals with loops formed by bending encircling the cord, said flexible wire being normally substantially straight and opposing flexing of the cord in any direction and offering torsional resistance to twisting of the cord.

1,336,860. HUMIDIFIER. HARRY F. REID, Minneapolis, Minn. Filed Mar. 20, 1919. Serial No. 283,757. 5 Claims. (Cl. 237—78.)



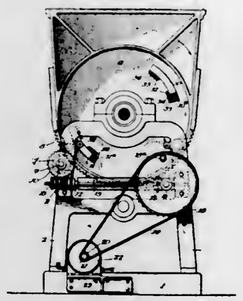
1. A humidifier comprising an endless trough adapted to rest upon the top of a radiator so that the inner wall of said trough surrounds an open space above the radiator, and an open mesh fabric adapted to extend over said inner wall whereby said fabric is spaced above the top of the radiator, the edges of said fabric when the latter is in place extending down into said trough.

1,336,861. DANDELION-RAKE. CHARLES E. ROBERTS, Oak Park, Ill. Filed June 18, 1915. Serial No. 34,800. 5 Claims. (Cl. 55—146.)



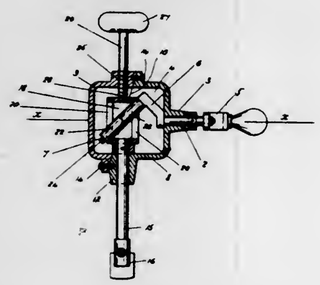
1. A rake for dandelions and the like comprising a handle, a head provided with teeth carried thereby, the teeth of said head being mounted close together and disposed at an acute angle with respect to said handle, said teeth being arcuately curved throughout a greater part of their length to retain blooms pulled from their stems, and means for pushing said blooms from said teeth.

1,336,862. MIXING-MACHINE. GEORGE ROYAN, Chicago, Ill., assignor to American Oven & Machine Company, Chicago, Ill., a Corporation. Filed May 22, 1919. Serial No. 298,968. 8 Claims. (Cl. 214—17.)



1. In apparatus of the character described, the combination with a mixing drum and with means for tilting the same, of stop devices adjustably mounted upon said drum and means with which said adjustable stop devices coöperate to arrest the movement of the drum.

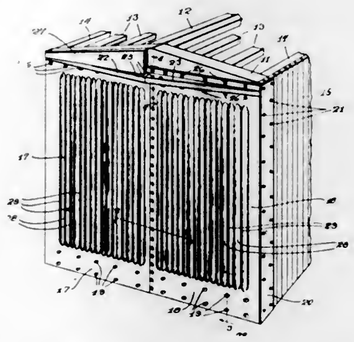
1,336,863. VALVE-GRINDER. DAVID A. RUNNION, Fortress Monroe, Va. Filed Feb. 8, 1919. Serial No. 275,726. 4 Claims. (Cl. 74—14.)



2. In a valve grinder, a support, a driving shaft journaled therein, a driven shaft mounted to oscillate in the support and arranged at an angle to the driving shaft, an adjustable thrust spindle bearing axially on one end of the driven shaft, a crank-pin secured to the driving shaft and arranged obliquely of the driven shaft, and a slotted drum secured to the driven shaft and engaged by the said crank-pin.

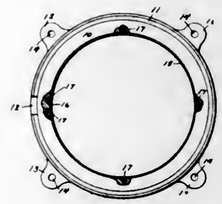
1,336,864. RAILWAY-CAR. THOMAS N. RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 17, 1916, Serial No. 72,495. Patent No. 1,272,117, dated July 9, 1918. Divided and this application filed May 27, 1916. Serial No. 100,414. 3 Claims. (Cl. 105—410.)

1. In a car end, in combination: a plurality of end sheets extending from top to bottom of the car-end frame and laterally secured together and each having a horizontal stiffening rib formed integrally in it adjacent one of its ends and also having a multiplicity of side-by-side vertical corrugations extending substantially from said horizontal rib to near the other end of the sheet; said ribbing and corrugations substantially filling the body of



each sheet and tapering off into the plane margins thereon.

1,336,865. INNER LINER FOR CEMENT-TILE PALLETS. ROBERT B. SANDS, Spencer, Iowa. Filed May 12, 1919. Serial No. 296,620. 4 Claims. (Cl. 25—30.)



2. In a pallet formed with a body plate having a circular opening of uniform diameter therein, the combination with said body plate of a liner formed of a strip of metal having superior wear-resisting qualities, and means for removably and replaceably mounting said strip in and completely covering the surface of said circular opening.

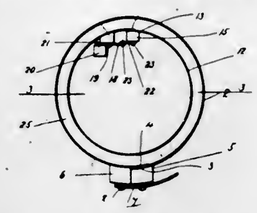
1,336,866. VESSEL. JOHN H. SCHLEETER, Cincinnati, Ohio. Filed July 23, 1917. Serial No. 182,226. 13 Claims. (Cl. 114—84.)



1. In a structure of the character described, longitudinal plankings arranged adjacent one another, flexible cables binding said plankings together, end-wood buffers mounted upon their ends upon said plankings, and means for securing said end-wood buffers together and to said plankings.

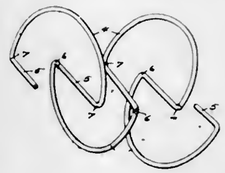
1,336,867. MOLD FOR DRAIN-TILES. WAYNE FRANKLIN SLOAN, Pomeroy, Ohio. Filed Sept. 11, 1919. Serial No. 323,090. 2 Claims. (Cl. 25—127.)

1. In a mold, a cylindrical outer wall formed of resilient sheet metal having side portions which are slidable one over the other, straight bars secured to the said side portions and arranged parallel to each other



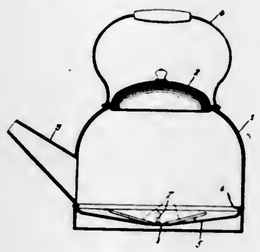
and limiting the contraction of the side wall, a pin projecting from one bar, and a fastening latch pivoted to the other bar and engaging with the said pin.

1,336,868. SPRING FOR AUTO-TIRES. MELVIN H. STANDLEY, Scott City, Kans., assignor of one-half to Weseley Ward, Scott City, Kans. Filed Nov. 23, 1917, Serial No. 203,574. Renewed Mar. 4, 1920. Serial No. 363,281. 2 Claims. (Cl. 152—8.)



2. A tire filler, consisting of spring wire bent into substantially helical form and having the convolutions divided into relatively outer and inner semi-circular elements and intermediate connecting chordal elements which are straight and disposed diametrically in substantially parallel relation, corresponding ends of adjacent inner semi-circular elements being connected to the opposite ends of companion outer adjacent semi-circular elements by the chordal elements.

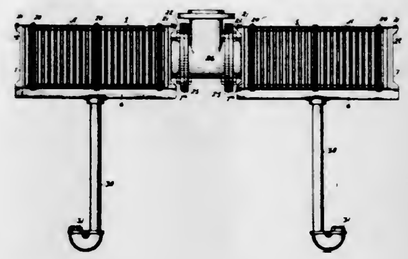
1,336,869. KETTLE. ANTONIO T. TIMOSCI, San Jose, Calif. Filed Aug. 26, 1919. Serial No. 319,881. 1 Claim. (Cl. 53—9.)



A kettle having arranged transversely thereof near the bottom a false bottom or partition, said false bottom having a central opening and inclining downwardly from its outer edge toward the opening and having radial ribs on its upper face forming passages between them leading from the edge to the opening, said false bottom being permanently attached within the kettle.

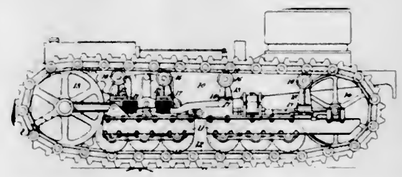
1,336,870. STEAM-SEPARATOR. HAYDEN H. TRACY, San Francisco, Calif. Filed Sept. 4, 1918. Serial No. 252,627. 9 Claims. (Cl. 183—105.)

1. A steam separator comprising a housing, a plurality of baffling plates extending from end to end of said housing, means for maintaining said baffling plates in parallelism and interspaced with relation to each other, a central steam passage formed in the housing be-



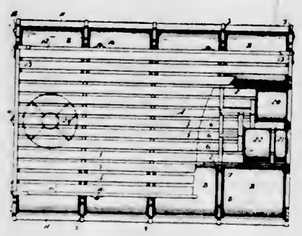
tween the baffling plates, a water collecting chamber extending from end to end of the housing formed below the steam passage and a separating wall between said steam passage and said water collecting chamber.

1,336,871. TRACK-SUPPORT FOR CHAIN-TRACK TRACTORS. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 25, 1918. Serial No. 236,526. 6 Claims. (Cl. 21—150.)



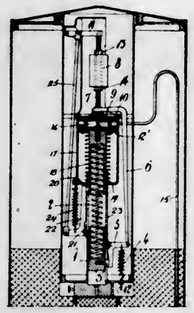
1. The combination with a tractor having endless self-laying tracks, of track engaging means comprising a bracket having a tubular bearing head, supporting rollers fitting over the ends of said bearing heads, hubs on said rollers extending into said tubular bearing head, and a spindle journaled in the bearing head to support said rollers and secure them together and anti-friction means carried by the bracket head on which the spindle is turnable.

1,336,872. LIFE-RAFT. JOHN F. TWIGG, San Francisco, Calif. Filed Dec. 6, 1918. Serial No. 265,513. 4 Claims. (Cl. 9—11.)



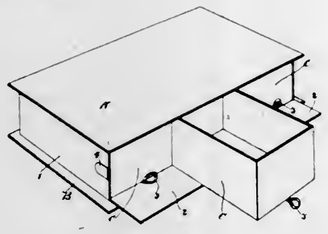
1. A life raft comprising a pair of longitudinal bulkhead frames, top and bottom rails extending crosswise thereof and secured to the same, a plurality of tanks arranged on the exterior side of each bulkhead frame, and means for securing the tanks against endwise and lateral removal.

1,336,873. FIRING DEVICE FOR SUBMARINE MINES, TORPEDOES, OR THE LIKE. NILS WILHELM UHR, Gottenborg, and JOHAN HJALMAR SANDBERG, Stockholm, Sweden. Filed Apr. 24, 1916. Serial No. 93,175. 2 Claims. (Cl. 102—3.)



1. A firing mechanism for submarine bodies, comprising a firing hammer, a supporting plate, a base plate resting on the latter and adapted to move out of rest position by a push imparted to the submarine body, means for locking the firing hammer in inoperative position, a connection between the base plate and said means adapted to release the latter on the movements of the base plate, a spindle placed on said base plate, a weight on the spindle, and means for adjusting the mobility of the base plate.

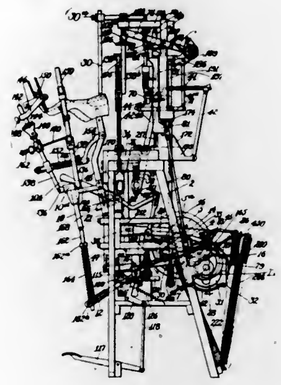
1,336,874. CONFECTION-BOX. WILLIAM W. WACHTEL, Kansas City, Mo., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo., a Corporation of Missouri. Filed July 7, 1919. Serial No. 308,973. 1 Claim. (Cl. 229—10.)



—A confection box, consisting of a rigid shell of substantially oblong form provided at one side with a hinged panel that is connected to the bottom of the shell, said bottom having a part that supports said panel and holds it in a substantially horizontal position when said panel is open, individual compartments or containers slidingly mounted in said shell and adapted to be supported by said panel when they are partly withdrawn from the shell, and a securing means for said panel composed of a strip of ribbon or other suitable material that extends over same and around the side and end walls of the shell.

1,336,875. ASSEMBLING-MACHINE. JESSE S. WENTWORTH, Decatur, Ill., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 27, 1914. Serial No. 827,596. 88 Claims. (Cl. 12—2.)

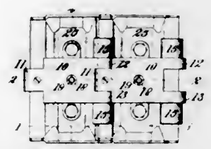
9. In an assembling machine, the combination with means for gripping an upper at the sides of the fore part and for straining it lengthwise of a last, of upper overwiping and fastening inserting mechanisms constructed and arranged to move inwardly toward the edge of the last from opposite sides of the counter and at the rear end of the heel and to wipe the upper over upon the innersole and secure it in overwiped position, and actuating means for said mechanisms.



32. A machine of the class described having, in combination, a jack for supporting a last in inverted position with an upper thereon, means for supporting the jack in a forwardly-inclined position, grippers for engaging the upper at the fore part of the last, a down-hold, means for moving the jack rearwardly to position the last beneath the down-hold, means for reversely actuating the down-hold and jack to clamp the last, means to wipe the upstanding upper over the heel end of the last, and means to unclamp the last and to then return the jack to the front of the machine.

59. In an assembling machine, the combination with means for separately seizing an upper at the toe end and on both sides of the fore part of a last and for holding it in an outspread condition and straining it along the sides of the last, of means for driving fastenings through the upper while under strain at points substantially in line with the heel breast.

1,336,876. TRACK-LINK. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 13, 1918. Serial No. 249,613. 3 Claims. (Cl. 21—150.)



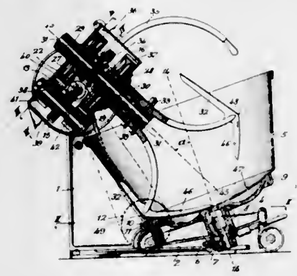
1. A chain track link comprising a body portion forming a central oil reservoir, a pair of spaced pin bearings at one end of said body and extending outwardly to form sprocket-engaging cylinders, a central pin bearing at the opposite end of said body, a pin fixed through said central bearing to extend into complementary end bearings, and means for distributing a lubricant from the reservoir through the pin to the end bearings.

1,336,877. LOGGING SYSTEM. OSCAR A. WIRKKALA, Kent, Wash. Filed Feb. 4, 1918. Serial No. 215,532. 2 Claims. (Cl. 212—94.)

1. In a logging system of the character referred to, in combination, a sky line, a haul back line, a carrier comprising a body having therein three sets of sheaves, upper, intermediate and lower, whereby to provide cable receiving ways therethrough, one way being between the upper and intermediate set of sheaves and the other way being between the intermediate and lower set of sheaves, said body being of tapering form with its small end provided with means for supporting a load, substantially as described.

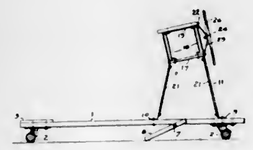


1,336,878. MIXING AND KNEADING MACHINE. FRIEDRICH AESCHBACH, Aarau, Switzerland. Filed Apr. 14, 1919. Serial No. 290,022. 8 Claims. (Cl. 259—85.)



1. In a mixing and kneading machine, an inclined receptacle whose side walls and bottom are at an obtuse angle to one another, a revoluble kneading and mixing dasher conforming to said angle, and the axis of revolution of the dasher and receptacle intersecting each other at an angle not exceeding 40°.

1,336,879. CHILD'S VELOCIPEDE. WALTER ATKINS, San Francisco, Calif., assignor of one-third to William J. Pedler and one-third to Albert D. Plughoff, San Francisco, Calif. Filed Dec. 3, 1919. Serial No. 342,088. 1 Claim. (Cl. 46—51.)



The combination of a board, front and rear pairs of skate wheels on which said board is mounted, a tail board of greater width than the rear end of the first named board, upper and lower cross pieces of greater length than the width of the board, iron bars the lower ends of which are secured to the board and which extend upwardly from said board and support said cross pieces, an upwardly extending bar secured centrally to the front edges of said cross piece and bent forwardly in the middle, and a propeller shaped vane rotatably supported at the center of said bar.

1,336,880. CUFF-BUTTON. JOSEPH H. BECHTOLD, Sioux Falls, S. D. Filed Feb. 2, 1920. Serial No. 355,804. 3 Claims. (Cl. 24—97.)



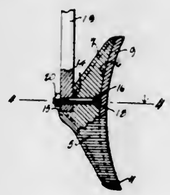
3. An attachment for converting rigid head cuff buttons into the hinged type, including a member formed to engage the shank of the cuff button at the point of removal of the rigid head, and a hinged head borne by the member.

1,336,881. WELL-BUCKET. CHARLES D. BEHAN, Stigler, Okla. Filed Oct. 18, 1919. Serial No. 331,595. 3 Claims. (Cl. 166—19.)



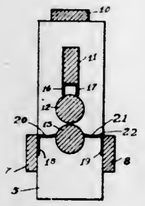
3. A bucket having an inlet port at its lower end and an outlet port at its upper end, a valve resting upon the outlet port and normally closing the same and having means for displacing the valve, and a water seal at the bottom of the bucket.

1,336,882. BRAKE-BLOCK. JOHN B. BOWMER, Plummer, Idaho. Filed Oct. 4, 1919. Serial No. 329,064. 1 Claim. (Cl. 188—250.)



A device of the class described comprising a body provided with a shoulder upon its rear surface and flat bores extending through the body so as to terminate above said shoulder, sockets provided in the front surface so as to register with said bores, bolts carried by said body and extending through said bores so as to allow their ends to rest in said sockets, an actuating lever carried upon the projecting end of the bolt so as to have its terminal abut said shoulder, means engaging the projecting end of the bolt to hold the lever against accidental displacement, said flat bores allowing side adjustment of said body.

1,336,883. CLOTHES-WRINGER. CHARLES F. BRONNER, Syracuse, N. Y. Filed Sept. 11, 1919. Serial No. 323,083. 2 Claims. (Cl. 68—32.)



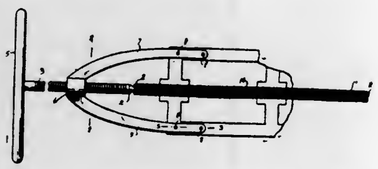
2. In a wringer, a supporting frame, horizontally disposed wringing rollers supported one above the other, lateral guards including flanges curved transversely of their lengths, and having a plurality of spaced openings, and a guard for the upper roller.

1,336,884. UNDERREAMER. HARRY E. BROWN, Wichita, Kans. Filed Sept. 14, 1918. Serial No. 254,048. Renewed Nov. 28, 1919. Serial No. 341,293. 15 Claims. (Cl. 255—75.)



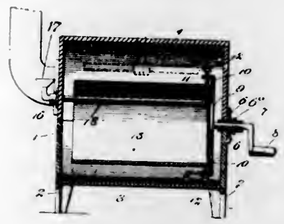
1. An under-reamer including a body, relatively movable shanks arranged side by side within the body and having their inner faces constantly in contact, a cutter at one end of each shank and extending laterally therebeyond, yielding means for exerting a constant pull upon the shanks, and means upon each cutter for lapping the outer face of one end of the body and fastening the cutters in active or laterally extended position.

1,336,885. BEARING-SCRAPER. MASTON A. BURCH, Cass, Ind. Filed May 5, 1919. Serial No. 294,982. 2 Claims. (Cl. 90—33.)



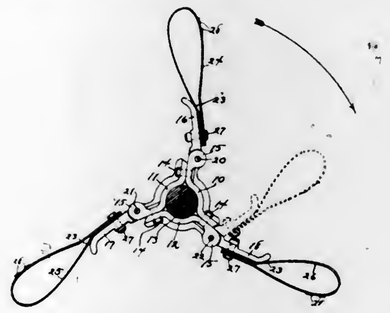
1. A device for scraping the bearings for the crank shaft of an internal combustion engine comprising, in combination with the engine block, an elongated scraping member provided with peripheral cutting teeth, a block adapted for detachable connection with the engine block, and a presser rod threaded through the block and coacting with an end of the member, whereby said member is forced through the bearings upon rotation of the presser rod in one direction.

1,336,886. METHOD AND APPARATUS FOR RETINNING ICE-CREAM CANS. WALLACE V. CALLENDER, Chicago, Ill. Filed Sept. 6, 1919. Serial No. 322,075. 13 Claims. (Cl. 91—12.5.)



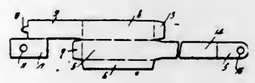
1. A step in the method of retinning cans, which consists in spinning the same axially and while supported approximately in a horizontal position in a bath of tin.

1,336,887. HOG-BEATER SHAFT ATTACHMENT. FRANK G. CARPENTER, Sioux City, Iowa. Filed Dec. 23, 1919. Serial No. 346,980. 6 Claims. (Cl. 17—11.)



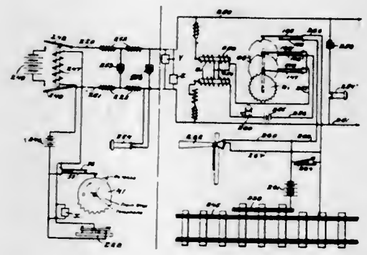
6. A hog-beater shaft attachment, comprising, in combination with a driven shaft, a plurality of drum sections adapted to be arranged in sequence around said shaft, each of said drum sections being formed at its ends with portions extending outwardly substantially radially of the shaft and in contact with similar end portions of adjacent sections, means for clamping said end sections together to secure the sections on said shaft, one end portion of each of said sections projecting a considerable distance beyond the other; and beater devices hinged to the projecting ends of said drum sections.

1,336,888. DEVICE TO SEAL FREIGHT-CAR DOORS. NELS M. CHRISTENSEN, Fremont, Nebr. Filed July 29, 1919. Serial No. 314,025. 2 Claims. (Cl. 292—322.)



2. In a seal, a blank including a base, a plate formed integral with the base and extending from one end thereof, an apertured integral flange formed adjacent one side of the plate, a tongue formed at one end of the plate and adapted to normally lie within the confines of the aperture of the flange, a side plate having flanges formed integral with the base and being disposed laterally thereof, said flange and first mentioned plate adapted to be folded inwardly to be housed by the base and side plate, and an integral shackle having an aperture, the walls of the aperture and the shackle adapted to coöperate with the tongue for locking the shackle against movement in one direction, and said shackle having an inturned end for coöperating with the flange for preventing movement of the shackle in the opposite direction.

1,336,889. SELECTIVE SIGNALING AND TRAIN-STOP SYSTEM. JAMES R. COKER, Knoxville, Tenn., assignor to S. I. Coker, Knoxville, Tenn. Original application filed Sept. 25, 1915. Serial No. 52,702. Divided and this application filed Nov. 20, 1916. Serial No. 132,429. 7 Claims. (Cl. 177—342.)



1. In a selector for an electrical selective system, the combination with a step-by-step progressing element, electromagnets for advancing said element to a predetermined position, means for closing a circuit when said element has reached said position, and a spring arranged to be placed under tension by the advance of said element, of an answer-back mechanism operating automatically by means including said spring for initiating a series of impulses peculiar to the said selector after said circuit has been closed, substantially as described.

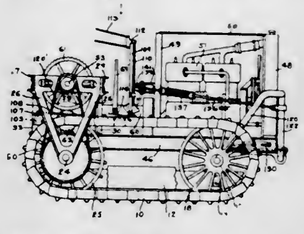
2. In an electrical selective system comprising a sending station telephonically connected by line wires to a plurality of local stations, an electromagnetic bridging said line wires at each of said local stations, a step-by-step element advanceable by the repeated energizations of said electromagnet to a predetermined position for closing a local signal circuit which is in inductive relation with said electromagnet, and means operating automatically for initiating a series of impulses in said local circuit after the latter has been closed which induces a series of audible impulses in the line wires peculiar to said local circuit, substantially as described.

3. A selector for an electrical selective system comprising a ratchet wheel, an electro-magnet for advancing said wheel to a predetermined position, a cylinder coaxially mounted with respect to said wheel, a rigid connection between said wheel and said cylinder, preventing backward motion of the latter with respect to said wheel for advancing said cylinder in unison with said wheel, a spring connection between said wheel and said cylinder permitting backward movement under tension of the wheel with respect to said cylinder, a series of depressions around the surface of said cylinder, a contact arm adapted to engage one of said depressions, a spring, stronger than the first mentioned spring, tending to return the ratchet wheel from its advanced, to its starting position, a pawl for holding said wheel in its advanced position, a time element actuated by said electromagnet and in its resting state adapted to disengage said pawl from said wheel, and another time element actuated by said electromagnet for forcing the contact arm into a predetermined depression in the cylinder when said time element moves into its resting position and thereby effecting a contact in a local circuit, substantially as described.

4. In a selector for a selective-signaling and train-stop system, a cylindrical circuit closing element having a series of depressions circumferentially disposed thereon; an electromagnet, a ratchet wheel operated by said electromagnet for advancing said element to a predetermined position, a time-element, means actuated by said time-element and engaging one of said depressions for holding the circuit closing element in an advanced position, means for effecting the return of the ratchet wheel to its starting position while the circuit closing element remains in its advanced position, and means actuated by a single energization of the electromagnet for returning said circuit closing element to its normal starting position, substantially as described.

5. In an electrical selective system comprising a sending station connected by line wires to a plurality of local stations, an electromagnet bridging said line wires at each of said local stations, a step-by-step element advanceable by the repeated energizations of said electromagnet to a predetermined position for closing a local signal circuit which is in inductive relation with said electromagnet and for placing at the same time another local circuit in operative condition, and means for initiating a series of impulses in said local signal circuit after the latter has been closed which induces a series of audible impulses in the line wires peculiar to said local circuit, substantially as described.

1,336,890. TRACTOR. ARTHUR D. COLE, Minneapolis, Minn. Filed July 23, 1919. Serial No. 312,679. 8 Claims. (Cl. 180—9.)



1. A tractor comprising a frame, a pair of driving wheels rotatably mounted on said frame, a pair of crank axles pivotally supported at their inner ends upon said frame, supporting wheels rotatably supported by the other ends of said crank axles, resilient means associated with said crank axles for allowing said supporting wheels to swing upwardly, and caterpillar belts supported upon said driving and supporting wheels.

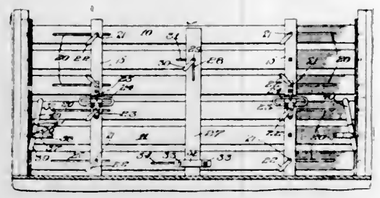
7. A tractor comprising a frame, rear and front supports connected to said frame so as to extend upwardly therefrom, outwardly away from the sides of said frame and then downwardly whereby a clearance is provided to permit the tractor to be used for cultivating growing crops, supporting and driving wheels rotatably mounted on the lower outer ends of said supports, and caterpillar belts mounted on said wheels.

1,336,891. IMPLEMENT FOR KINKING FIRE-HOSE. WALTER F. CORBIN, Grand Rapids, Mich. Filed Mar. 24, 1919. Serial No. 284,848. 3 Claims. (Cl. 251—5.)



3. In a hose crimping implement, two parallel handles integrally connected at one end with a cross-bar at right angles with the handles, one handle extending beyond the connecting bar and a right angle arm thereon paralleling the connecting bar, a retaining cross-bar pivotally connected with the outer end of one of the handles and adapted to be swung into place between the two handles and the hose when crimping a hose.

1,336,892. BULKHEAD. BERT B. CRANE. Rochester, N. Y. Filed Jan. 25, 1916, Serial No. 74,105. Renewed May 31, 1919. Serial No. 301,120. 7 Claims. (Cl. 105—376.)



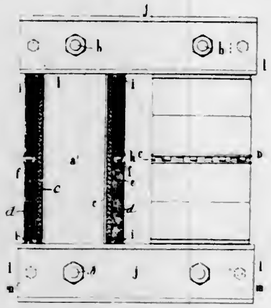
1. A bulkhead for cars comprising a plurality of sections pivotally and slidably mounted one upon the other, and means for bracing the sections intermediate their ends.

1,336,893. PROCESS FOR THE RECOVERY OF BENZENE HYDROCARBONS FROM COAL-GAS. GEORGES EDMOND DARIER, Geneva, Switzerland. Filed July 10, 1916. Serial No. 108,414. 1 Claim. (Cl. 196—25.)

The process of recovering benzene hydrocarbons from coal gas which consists in first washing the coal gas by petroleum oil at a temperature below plus five degrees C., then fractionally distilling from the resulting compound benzene hydrocarbon, and utilizing the cooled and washed gas and liquid thus obtained for reducing the temperature of the entering gas and liquid.

1,336,894. ELECTRICAL TRANSFORMER. SEBASTIAN ZIANI DE FERRANTI, Baslow, England. Filed Feb. 1, 1916. Serial No. 75,614. 4 Claims. (Cl. 175—356.)

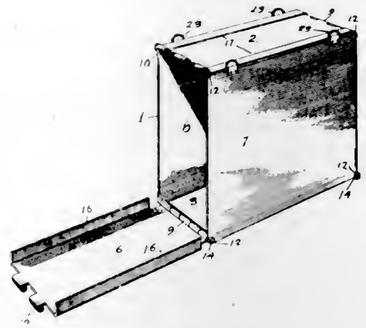
1. The combination in an electric transformer of a



closed circuit iron core, end supporting members rigid with said core, a coil abutting directly against and supported by one of said supporting members, a second coil abutting directly against and supported by a second supporting member and resilient means inserted between the coils, thrusting the coils in the same directions as those in which the resultant axial forces act.

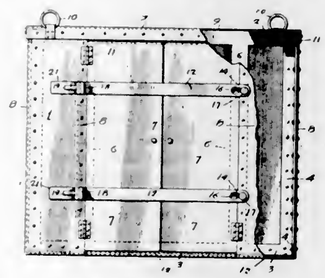
1,336,895. COLLAPSIBLE CONTAINER. JOHN R. DRIVER and MICHAEL B. DRIVER, Berkeley, Calif. Filed May 6, 1919. Serial No. 295,760. 9 Claims. (Cl. 220—7.)

1. A collapsible container comprising a top section, a bottom section and end sections, the sections being hinged together so as to be collapsible upon one another when the pintle of one hinge is removed; side members, each provided at three of its edges with flanges adapted to engage, respectively, three of the sections; flanges upon the fourth section adapted to engage, respectively, the unflanged edges of the side members; and means for securing the side members to the sections so as to form a rigid container structure.



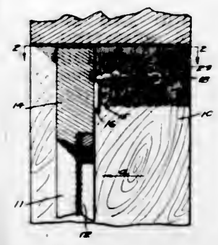
8. A collapsible container comprising a top section, a bottom section and end sections, the sections being attached to each other by alternately arranged, inwardly and outwardly disposed hinges at their end edges so that the sections may collapse upon one another when the pintle of one hinge is removed, and the pintles extending and being threaded beyond the hinges; side members provided with lugs having openings therein adapted to register with, respectively, the outwardly disposed hinges, and also provided with openings adapted to register with, respectively, the inwardly disposed hinges, so that the pintles may extend through the respective openings; each of the side members also being provided at three of its edges with flanges adapted to engage, respectively, three of the sections; flanges upon the fourth section adapted to engage, respectively, the unflanged edges of the side members; and nuts fitting the ends of the pintles for securing the side members to the sections so as to form a rigid container structure.

1,336,896. STORAGE-CONTAINER. JOHN R. DRIVER and MICHAEL B. DRIVER, Berkeley, Calif. Filed May 20, 1919. Serial No. 298,538. 3 Claims. (Cl. 220—71.)



1. An article of manufacture comprising a container formed of upper and lower angles secured at their corners to form upper and lower rectangular frames; vertically disposed corner angles connecting the corners of the frames; vertically disposed members mounted between the upper and lower angles on one side of the frames and adjacent the corner angles; a sheet metal door hingedly mounted upon each vertical member, said doors meeting approximately midway between said members and overlapping the top and bottom angles; a sheet metal housing extending from one vertical member around the corner angles to the other vertical member; a top plate mounted upon the upper rectangular frame and having depending flanges extending over the top of the sheet metal housing; and a bottom plate within the housing secured upon the lower flanges of the lower rectangular frame.

1,336,897. DOOR-CATCH. ALBERT DRUMMOND, Los Angeles, Calif. Filed Oct. 12, 1916. Serial No. 125,306. 2 Claims. (Cl. 292—17.)



2. A door catch including a base plate adapted to be secured to the face of a door; a stud extending from said base plate at right angles thereto, a conical point at the forward end of said stud, an annular bead formed on said stud at the base of said conical point, a mounting plate adapted to be secured to the face of a door frame, oppositely disposed spring fingers arcuate in cross section extending from said mounting plate and shaped to fit firmly upon said bead and engage the rear face of said bead to hold the door firmly but yieldingly closed, the outer ends of said spring fingers being curved and flared apart to receive said conical point and so that said fingers will spring over said bead.

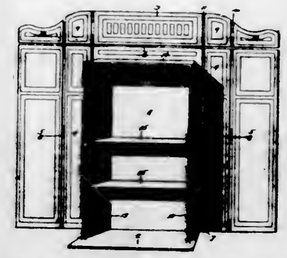
1,336,898. COMIC DOLL. OLICE A. FLYNN, Milton, Wash. Filed July 16, 1919. Serial No. 311,254. 3 Claims. (Cl. 46—40.)



1. A doll having a body and flexible members, the body and members being provided with coacting fastening devices whereby the body and members may be turned into a plurality of positions and held in said positions by the fastening devices.

1,336,899. DISPLAY-CASE. WILLIAM H. GALLAGHER, Berkeley, Calif. Filed Mar. 5, 1919. Serial No. 280,733. 2 Claims. (Cl. 190—16.)

1. A combination display and shipping case comprising a bottom section, side sections hingedly secured thereto, a pair of cover sections hingedly secured one to each side section, a permanent end section on one end of the bottom section and a hingedly secured end section on the opposite end of the bottom section, a pair of permanent side sections rigidly secured to the bottom section, a rigid top section connecting said rigid side sections, said top section forming a support for the hingedly secured end section when this is folded to close the case and said permanent side sections forming a support for the hingedly secured side sections when these are folded to close the case, means for securing all the hingedly secured sections when closed, a pair of sections hingedly secured to the hingedly secured end section, one at each end thereof, a second pair of sections hingedly secured to said last named sections, one to each section, said sections adapted to form an



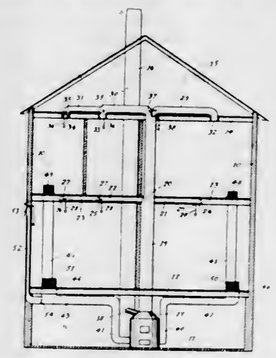
alinement with the side and cover sections when these are unfolded and to fold inwardly against the end section when this is folded and to lie between said end section and the permanent top section.

1,336,900. INTEREST-COMPUTING DEVICE. WILLIAM F. GALLOWAY, Little Rock, Ark. Filed June 11, 1919. Serial No. 303,317. 3 Claims. (Cl. 235—89.)



2. In an interest computing device, the combination with a page having printed thereon a plurality of columns of numerals or figures representing the interest on certain sums, for a day or a series thereof, or for a month or a series thereof, or for a year or a series thereof, of a guide movable down the page having printed thereon a plurality of groups of numbers, on which interest is designed to be computed, the upper edge of the guide having a plurality of series of points alined with the amounts of the groups of numbers, whereby the location of the decimal point may be indicated according to any selected amount of any group.

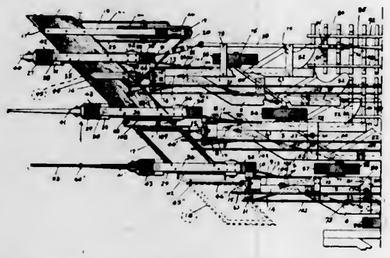
1,336,901. HOT-AIR HEATING SYSTEM. DANIEL HANDELAN, Aberdeen, S. D. Filed Oct. 31, 1917. Serial No. 199,553. 2 Claims. (Cl. 237—48.)



1. A hot air heating system for buildings comprising a centrally located furnace and hot air chamber therein, a vertical delivery pipe extending from said hot air chamber through all of the floors and ceilings of the building to be heated, laterally extended discharge pipes leading from said vertical pipe, the outer ends of said lateral pipes being turned downwardly through the ceilings to deliver

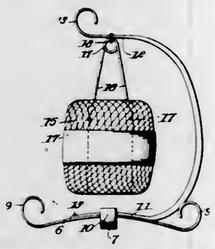
hot air at the highest point in the rooms, and return flow pipes of relatively large size having withdrawal openings located at the floors of the various rooms, said withdrawal pipes being positioned adjacent the outside walls of the building.

1,336,902. PLOWING AND SEEDING APPARATUS. DANIEL L. HEALY, San Francisco, Calif. Filed Oct. 31, 1918. Serial No. 260,478. 10 Claims. (Cl. 111—1.)



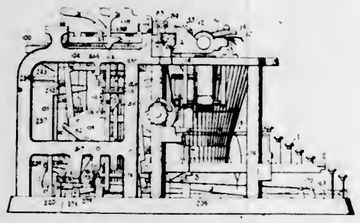
1. A plowing and seeding apparatus comprising a jointed draw bar, wheels supporting said draw bar, a plurality of independent wheeled plows connected with the different members of the draw bar, jointed axles connecting the plow supporting wheels and independent harrows and seeders connected with and pulled by the several plow frames.

1,336,903. THREAD-HOLDER. CHARLES H. HOOFNAGLE, Laporte, Ind. Filed Jan. 15, 1918. Serial No. 211,976. 2 Claims. (Cl. 211—24.)



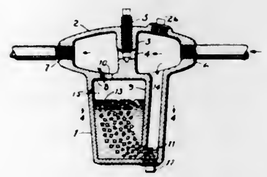
1. A device of the class described comprising a base including members capable of movement relative to one another, hanger means rising therefrom, fastening means joining said hanger means and said base, and one of said base members having a lug integral therewith and extending through the hanger means to cause them to move in unison.

1,336,904. CALCULATING-MACHINE. HUBERT HOPKINS, St. Louis, Mo., assignor to Moon-Hopkins Billing Machine Co., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 9, 1906. Serial No. 310,739. 421 Claims. (Cl. 235—60.)



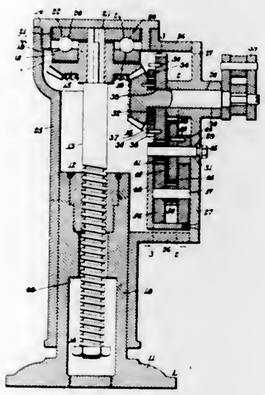
377. The combination of a plurality of sets of adding devices, key controlled stops for limiting their movements, and means for automatically throwing one or more of the sets into operative engagement with another of the sets.

1,336,905. METHOD AND APPARATUS FOR PREVENTING AND REMOVING OBSTRUCTIONS IN FLUID-PRESSURE SYSTEMS. WALTER W. HUNZICKER, Mansfield, Ohio. Filed June 7, 1919. Serial No. 302,398. 17 Claims. (Cl. 137—72.)



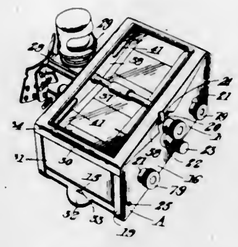
1. The combination with a fluid pressure system of a receptacle having communication with the system, an agent in the receptacle capable of preventing the accumulation of obstructions in the system, and means for forcing the fluid in the system through the agent to charge the fluid with the agent.

1,336,906. LIFTING-JACK. LAWRENCE E. JOHNSON, Melrose, Mass., assignor to Mattie S. Johnson, Melrose, Mass. Filed July 6, 1918. Serial No. 243,716. 32 Claims. (Cl. 188—78.)



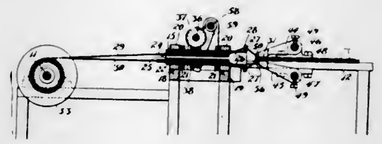
17. The combination of an operating shaft; a ratchet revolnble with said shaft; a gear loosely mounted on said shaft; a pawl on said gear, engaging said ratchet; a pinion meshing with said gear, a cup-shaped member revolubly with said pinion; manually controlled means for regulating the speed of lowering of the load and positioned within said cup-shaped member; and an independent mechanism coacting with and actuated by said pinion for preventing said pinion rotating faster than the predetermined speed for lowering.

1,336,907. ROAD RECORDER AND INDICATOR. ORVILLE ERNEST JOSEPH, Moose Jaw, Saskatchewan, Canada. Filed Feb. 24, 1919. Serial No. 278,888. 9 Claims. (Cl. 40—42.)



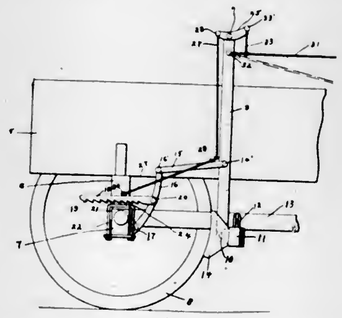
1. A device of the class described comprising a casing, reel supporting elements in the casing, a feed roller between the reel supporting elements, means for actuating the roller, and means for simultaneously rotating the said reel supporting elements in opposite directions.

1,336,908. LATH-WEAVING MACHINE. HERBERT EDWARD LAW and EARL POOLER, San Francisco, Calif. Filed June 1, 1918. Serial No. 237,805. 2 Claims. (Cl. 140—32.)



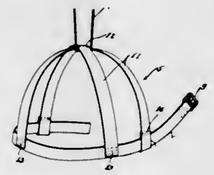
2. An apparatus for weaving and uniting wires and slats or laths, including a table upon which the laths are supported in parallel lines, reels supported in pairs and containing wire coils, spiral springs acting against the reels to produce a tension upon the wires being drawn therefrom, transversely turnable mandrels, means by which they are turned to twist the passing wires, guides by which the ends of the laths are evenly retained, pressure arms and clamping arms, said clamping arms having flat surfaces to press upon the laths and also having beveled hook-shaped ends to engage the laths, and means to cause the hook-shaped ends to draw the laths into contact with the junction of the twisted wires.

1,336,909. WAGON-BRAKE. JAMES S. LOCKARD, Landrum, S. C. Filed Aug. 29, 1919. Serial No. 320,615. 7 Claims. (Cl. 188—12.)



7. In combination with a wagon, a brake, a toggle link between the rear axle and the brake lever, a ratchet bar pivotally associated with the link and extending rearwardly over the axle, a U-shaped plate rigidly secured to the axle having an upwardly extending lug, said ratchet bar coöperating with the lug, an arcuate shaped arm pivoted to the upper end of the brake lever, a cable extending from the rear end of the arm to the ratchet bar, a second cable jointly connecting the forward end of said arm and brake lever for appiying and releasing said brake.

1,336,910. SPINE-EXERCISER. BERNARR MACFADDEN, New York, N. Y. Filed Mar. 22, 1919. Serial No. 284,381. 7 Claims. (Cl. 46—69.)

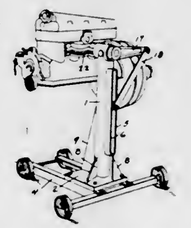


1. In a spine exerciser, a head piece comprising a neck band; crossed head straps each having one end secured to the neck band, and its other end loosely secured to portions of the neck band to permit them to be adjusted.

1,336,911. PROCESS FOR RETREADING TIRES. FRED MAIER, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill., a Copartnership consisting of Herbert K. Wheelock, Frank A. Weller, and Walter R. Fontaine. Filed May 14, 1919. Serial No. 296,986. 5 Claims. (Cl. 18—59.)

1. The process of retreading tires, which consists in first subjecting a section of the periphery of a tire to the action of vulcanizing means, then moving said tire to present another section thereof to the action of said vulcanizing means, and inserting an insulator between said vulcanizing means and that portion of the first section of the tire which has already been vulcanized, whereby overvulcanization of said portion is prevented.

1,336,912. ENGINE-STAND. ROBERT E. MANLEY, York, Pa. Filed June 6, 1919. Serial No. 302,229. 8 Claims. (Cl. 29—89.)

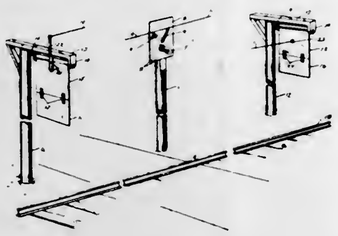


1. In an engine holder, a support, means rotatably mounted in said support so as to maintain the center of gravity of said means constantly in such axis of rotation, and means for holding an engine on said rotatably mounted means to one side of said support.

1,336,913. RAILROAD-CROSSING SIGNAL. ANTONE MENNEN, Milwaukee, Wis. Filed Sept. 29, 1919. Serial No. 327,262. 2 Claims. (Cl. 246—298.)

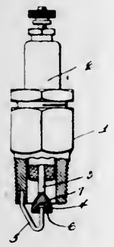
1. A railroad crossing signal of the class described comprising a signal located adjacent the crossing, a signal

operating member disposed alongside of the railroad at a point remote from the crossing and including a standard, a panel swingingly supported therefrom, a flap hingedly connected to, the lower end of the panel and capable of movement on its hinges only in a direction from the railroad crossing whereby a train approaching



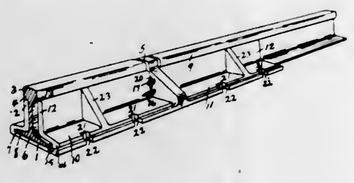
the crossing will strike the flap and move the panel and a train coming in a direction from the crossing will upon striking the flap move the same on its hinges, and connections between the panel and signal for operating the signal when the panel is moved by a train approaching the crossing striking the flap.

1,336,914. SPARK-PLUG. HARRY J. MUNSTER, San Diego, Calif. Filed May 22, 1917. Serial No. 170,248. 1 Claim. (Cl. 123—169.)



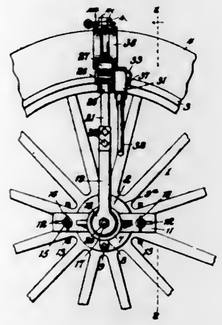
A spark plug having a shell and an upper and lower electrode, the terminal of the upper electrode being extended beyond the lower end of the shell and provided with an integral enlarged dome shaped portion having its extreme end face concaved the said dome shaped portion also having a central recess slightly larger than the said lower electrode, the latter having its terminal extending in longitudinal alinement with the center of the said upper electrode, and projected partially into the said recess and disposed centrally with respect thereto, whereby an equal space is provided around the terminal of the lower electrode in the said recess.

1,336,915. RAILWAY-JOINT. MICHAEL S. MURAR and LOUIS F. HAMROCK, Youngstown, Ohio. Filed Dec. 31, 1919. Serial No. 348,713. 1 Claim. (Cl. 238—198.)



In a device of the class described; a shoe member having an in and up-turned portion, the upturned portion fitting underneath the head of a railway rail, a bridge and supporting member formed on the shoe and upturned member, a groove on the upper surface near the edge of said shoe, support plates provided with flanges fitting the above mentioned groove, an upturned part fitting underneath the railway head, key arms formed at the end of said support plates, two openings formed in the bridge and supporting member, a plurality of notches in the shoe, a plurality of notches in the support plates positioned so as to register with the notches of the shoe; substantially as described for the purpose set forth.

1,336,916. AUTOMOBILE-TIRE TOOL. LOUIS H. OSTERHAGE, Vincennes, Ind. Filed Feb. 19, 1919. Serial No. 277,989. 12 Claims. (Cl. 157—6.)



1. An automobile tire tool, comprising means for attachment to the hub portion of an automobile wheel, means for laterally gripping a tire on the wheel, means connecting the first-named means and the gripping means, and means for imparting to the tire-gripping means a movement substantially parallel with the axis of the wheel, whereby a tire may be moved from or onto the wheel rim and the gripping means may be bodily moved about the axis of the wheel.

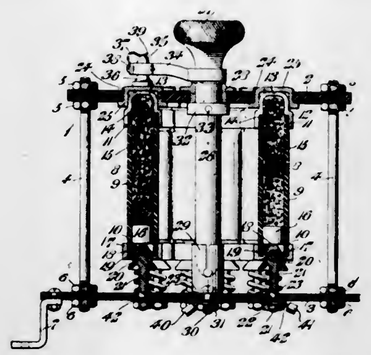
1,336,917. WATER-MIXER. SISSAK K. OEZOUN-BOGHOSSIAN, Washington, D. C. Filed Oct. 13, 1919. Serial No. 330,277. 2 Claims. (Cl. 137—111.)



1. An adjustable tubular water-mixer adapted to be removably attached between and on the discharge spouts of any two hot and cold water faucets, said mixer being a combination of three separate metal parts and a set of rubber members, said three metal parts consisting of one T-shape tube and two mouthpiece parts, said set of rubber members consisting of two small rubber tubes and two rubber tubular members, said three metal parts being separated and detachably connected together by said two small rubber tubes, the stem-tube of said T-shape tube serving as a discharge spout to said mixer, said two mouthpiece parts having fitted thereto said rubber tubular members, said mixer adapted to be attached to the discharge spouts of said faucets by said tubular members fitted to said mouthpiece parts, all substantially as set forth.

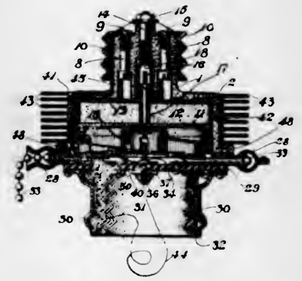
1,336,918. RHEOSTAT. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1919. Serial No. 320,446. 16 Claims. (Cl. 219—50.)

2. In a rheostat, a resistance element, composed of a shell, an upper thimble thereon, resistance material in said shell, a lower thimble threaded to said shell, a conducting plug contained within said shell, intermediately of said lower thimble and said resistance material, whereby the



rotation of said lower thimble varies the resistance, a resilient support for said lower thimble, and a contact device for said upper thimble.

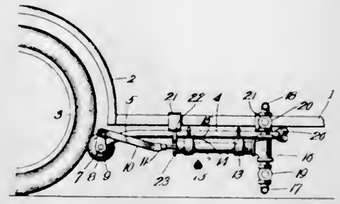
1,336,919. CURRENT-REGULATING PLUG AND SOCKET. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 13, 1919. Serial No. 330,514. 14 Claims. (Cl. 219—50.)



3. In a device of the character stated, a casing containing a resistance material, a piston for varying the pressure upon said material, a vertically disposed central contact pin carried by the piston, a fixed contact within the upper part of said casing with which the upper end of the contact pin is adapted to make contact, a fixed contact within the lower part of said casing with which the lower end of the contact pin is adapted to make contact, horizontally disposed rotary cam mechanism for raising and lowering the piston, and means for operating said cam mechanism from the exterior of the casing.

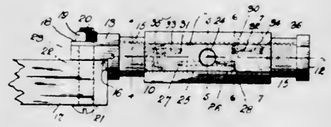
1,336,920. PUMP ATTACHMENT FOR AUTOMOBILES. RALPH A. PEATMAN, Mound City, Kans. Filed Sept. 8, 1919. Serial No. 322,451. 2 Claims. (Cl. 103—65.)

1. A pumping attachment for automobiles comprising a skeleton frame, a friction pulley journaled thereon, and at the rear end of said frame, a reciprocatory pump carried by said frame at one side thereof, and connected to the pulley to be operated thereby, a pair of clips above and transversely arranged as regards the pump, slidingly carrying the said frame and provided at the same side of the frame as the pump, with upstanding hooks for fitting over the outer edge of a running board of the automobile, means to clamp one of said clips firmly to the running board, and coöperating means carried by the last named clip and the



skeleton frame, for effecting longitudinal adjustment of said frame to press the friction wheel firmly against a wheel of the automobile.

1,336,921. VIBRATOR. GEORGE B. PICKOP, New Haven, Conn., assignor to The Malleable Iron Fittings Company, Branford, Conn., a Corporation of Connecticut. Filed Aug. 21, 1915. Serial No. 46,711. 6 Claims. (Cl. 121—17.)



1. In a vibrator, the combination of a body of substantially uniform polygonal cross section throughout the greater part of its length having a plurality of pairs of parallel faces, said body constructed of a bar of metal and cut away at the ends to present reduced portions of less diameter than the main part of the body and eccentric to such main part, said body having a bore extending longitudinally therethrough substantially concentric with said reduced ends but eccentric to the main polygonal part of the body whereby the wall at one side of said polygonal part is thicker than at the opposite side, the thicker part of said wall being provided with an intermediate inlet socket and with a plurality of inlet passages extending longitudinally from said socket toward the respective ends of the body but communicating with said longitudinal bore just short of the reduced end portions, said longitudinal passages being drilled from the shoulders formed adjacent said reduced end portions and plugged at the ends, there being exhaust passages in the thinner wall of the bore, a piston in said bore, said reduced end portions being provided with interior screw threads, and screw plugs engaging said threads and having outer polygonal heads.

1,336,922. SALES-CHECK HOLDER. THOMAS R. F. POTTER, Brooklyn, N. Y., assignor to Lock Stub Check Company, Brooklyn, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,694. 5 Claims. (Cl. 211—37.)



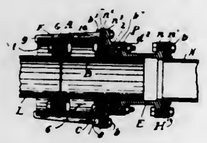
1. The combination with a box-like frame having an open end and a rigid bottom plate adapted to support checks and extending beyond said open end and beyond the outer ends of checks; a spring plate secured to the under side of the bottom plate and having a perforation in its outer end; an outwardly extending prong bent downwardly from the outer end of the bottom plate with cutting edges adapted to coact with the edges of said perforation; stops to limit the insertion of a check beneath said bottom plate; and a receptacle secured to said spring plate beneath said perforation to receive the chips cut from the checks.

1,336,923. SAFETY-RAZOR. ALVAH C. ROEBUCK, Evanston, Ill. Filed Nov. 11, 1918. Serial No. 261,981. 23 Claims. (Cl. 30—12.)



1. In a safety razor, a blade holder, and a rotatable adapter having its axis of rotation substantially in the plane of the blade, said adapter having rigid means for engaging the rear edges of blades for accommodating blades of different widths.

1,336,924. EXPANSION-JOINT. RICHARD RUPPEL, New York, N. Y., assignor to Scott C. Ross, Buffalo, N. Y. Continuation of application Serial No. 746,634, filed Feb. 8, 1913. This application filed Mar. 10, 1915. Serial No. 13,479. 8 Claims. (Cl. 285—22.)



1. The combination with two sections of a pipe-line, of a casing attached to the end of one pipe section, a tubular member on the end of the other pipe section and slidably disposed in said casing, an annular head on said tubular member, and a member of cylindrical outline extending from said casing over and into intimate engagement with said head to guide and support said tubular member in axial alinement with said casing and to form a protective portion for the sliding surface of said tubular member.

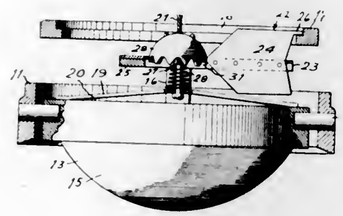
2. A pipe-line expansion joint comprising a chambered casing, a tubular member in alinement with said casing and having one end thereof slidably mounted in a packed joint in one end of said casing, and provided on the outer end thereof with an annular outwardly extending flange, and a flange guiding and supporting member of cylindrical outline extending from said casing over and into intimate engagement with said head to guide and support said tubular member in proper relation to said casing and to form a protective housing for the sliding surface of said tubular member.

3. A device of the character described comprising a casing, a tubular member slidably mounted in said casing, an annular head on said tubular member, a sleeve secured to said casing and extending over such head to form a protective chamber, and a cupped packing secured to said annular head to permit the egress of fluid matter but prevent the ingress thereof.

4. A device of the character described comprising a casing, a tubular member slidably mounted in said casing, an annular head on said tubular member, there being a packing chamber in the end of said casing surrounding said tubular member, packing in said casing, a gland ring disposed on said tubular member and adjacent to said packing, a sleeve secured to said casing and extending over the gland ring and head to form a protective chamber and prevent the accumulation or discharge of foreign material between said gland ring and said casing, and a cupped packing secured to said annular head to permit the egress of fluid matter but prevent the ingress thereof.

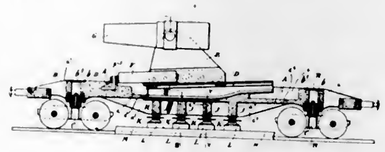
5. In combination with two sections of a pipe line, a casing attached to the end of one pipe section, a tubular member slidably disposed in said casing, a flange on said tubular member, a flange on the end of the other pipe section which flange is attached to the flange of said tubular member thereby to secure the tubular member to said other pipe section, said flanges forming an annular head, a sleeve secured to said casing and extending over said head, and a cupped packing secured to said annular head to permit the egress of fluid matter but prevent the ingress thereof.

1,336,925. SEA-CURRENT-DIRECTION INDICATOR. SUYEJI SAKAUYE, East San Pedro, Calif. Filed June 19, 1918. Serial No. 240,777. 10 Claims. (Cl. 73—151.)



1. The combination with a compass, of supporting members extending upward therefrom, an annular grooved ring carried by the supporting members, a bridge element secured to the compass, a cable acting for suspension, secured to the bridging element, a current indicator swivelly mounted on the cable, a weight to retain the current indicator in engagement with the annular ring, and a cord attached to the retaining weight for placing the same in operative and inoperative position.

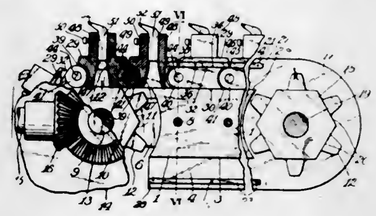
1,336,926. GUN-CARRIAGE FRAME. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Feb. 28, 1919. Serial No. 279,880. 7 Claims. (Cl. 89—40.)



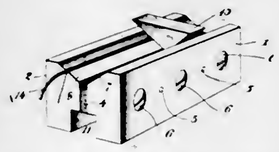
1. In a car for carrying guns of large calibers during transportation and firing, an integral girder-like member of reinforced cement forming the main frame of the car, said frame having an enlarged central body-part and end-extensions of less thickness than said body-part, wheel-trucks mounted beneath the end-extensions of the frame, and the fixed member of a gun-mounting embedded in the body-part of the frame, said body-part by its position relative to said fixed member operating to receive the direct shock of discharge.

1,336,927. CUTTER-BAR AND BIT-CHAIN FOR MINING-MACHINES. ELLIS T. SILVIUS, Indianapolis, Ind., assignor to Morris H. Barton, Indianapolis, Ind. Filed Feb. 28, 1919. Serial No. 279,823. 7 Claims. (Cl. 262—28.)

1. A mining machine cutter bar including a main bar and two side plates secured together, each side plate having a guide bar dove-tailed therein at a distance from its edge and the adjacent edge of the main bar to provide a side bearing on each side of and remote from each guide bar.

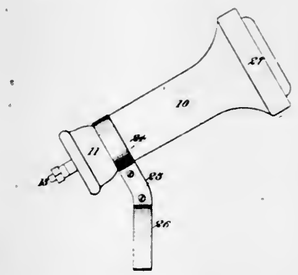


1,336,928. METHOD AND APPARATUS FOR ALINING WORK ON V-BLOCKS AND THE LIKE FOR MAGNETIC CHUCKS. FRANK L. SIMMONS, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Original application filed May 10, 1919. Serial No. 296,162. Divided and this application filed July 8, 1919. Serial No. 309,350. 7 Claims. (Cl. 175—367.)



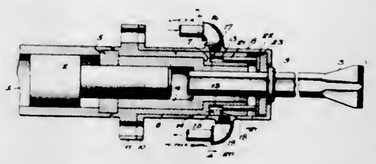
2. The method of alining work on a magnetizable work support having a plurality of pole pieces with angularly disposed work faces; which method comprises providing a pivot wire extending along one work face in such manner as to separate the work a slight distance from the said work face; then setting the work on the support in such manner as to rest full against another of said work faces and to be capable of pivoting on the pivot wire so that when the support is magnetized the work is tightly held against the wire and full against the operative work face to permit a side of the work to be finished accurately relatively to the operative work face.

1,336,929. TELEPHONE-RECEIVER HOLDER. CHARLES F. SIMPSON, Oakland, Calif. Filed Sept. 10, 1919. Serial No. 322,856. 2 Claims. (Cl. 179—157.)



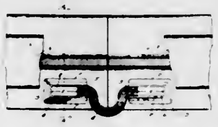
1. A telephone receiver holder formed of a single strip of resilient metal, a central portion of which provides a loop embracing the shank of a telephone receiver, and the opposite ends of which extend outwardly and in a plane at an angle to the plane of the loop for providing a saddle adapted to be positioned over a shoulder of an operator.

1,336,930. ROCK-DRILL SEATING AND CONTROLLING MEANS. HAROLD I. STAGE, Denver, Colo. Filed Aug. 15, 1918. Serial No. 250,038. 20 Claims. (Cl. 121—9.)



1. In a drill feeding machine, a cylinder, an impact motor hammer therein, a drill, a sleeve supporting the latter, a head for the cylinder, through which the drill extends, a ring encircling the drill and arranged within the head for limited movement to hold the drill against its work, and pneumatic means for operating the ring.

1,336,931. METHOD OF APPLYING RAIL-BONDS. WILLIAM CARLETON STARKEY, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed June 26, 1916. Serial No. 105,943. 9 Claims. (Cl. 113—112.)



1. The method of attaching a bond body to a rail by means of a heating flame which consists of attaching to said rail a casing having a higher melting point than the bond body and subsequently attaching the bondy body to said casing.

1,336,932. RAIL-BOND. WILLIAM CARLETON STARKEY, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Original application filed June 26, 1916, Serial No. 105,943. Divided and this application filed Sept. 21, 1917. Serial No. 192,456. 9 Claims. (Cl. 173—278.)

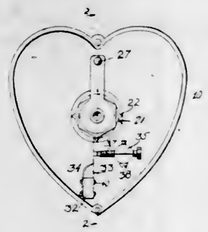


1. A rail bond comprising a metallic conducting body portion, and a casing of dissimilar metal for each end of the body portion, the casing comprising a rim which fits over the end of the body portion, and a flange extending from the rim by which it is attached to the rail and attaching metal applied to the face of said rim opposite said conducting body portion and to said flange and said rail for attaching said bond to said rail.

1,336,933. IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. WILLIAM F. STRAND, Des Moines, Iowa. Filed Mar. 18, 1919. Serial No. 283,403. 3 Claims. (Cl. 200—30.)

1. In a multiple cylinder internal combustion engine ignition system comprising a low tension circuit, a high tension circuit, and means for successively closing the high tension circuit through each of a plurality of contacts con-

nected with the ignition devices of the respective cylinders, a support, a stop bracket secured thereto, an elongated flat resilient conductor having one end secured to the support and adapted to normally yieldingly bear against the stop intermediate of the ends of the conductor, a contact secured to the conductor between the free end thereof and the stop, a second contact secured to the support in



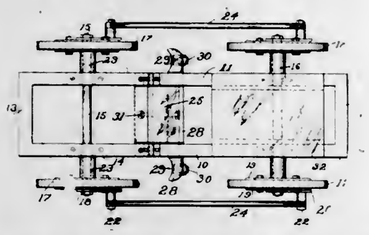
position spaced from the first contact, means for adjusting the distance of the second contact from the first, and means operated by the first described means for flexing the conductor against the stop somewhat prior to the closing of the circuit through each of the first described contacts, whereby the rebound of the conductor will bring the two last described contacts together for an instant.

1,336,934. FASTENING MEANS FOR DEMOUNTABLE RIMS. BENEDETTO TAMBURELLO, New York, N. Y. Filed Oct. 1, 1919. Serial No. 327,694. 2 Claims. (Cl. 152—21.)



2. The combination of a wheel, a demountable rim, a plurality of locking devices pivoted to the wheel and arranged to engage and spring said rim while said devices are being moved from unlocked to locked position, said devices being adapted to be maintained in locked position by said rim, and coöperating locking members carried by the rim, said rim being provided with recesses located in radial alinement with the pivotal point of each locking device for the purpose set forth.

1,336,935. SELF-PROPELLED VEHICLE. RALPH A. WAKEFIELD, Sacramento, Calif. Filed Sept. 24, 1918. Serial No. 255,429. 4 Claims. (Cl. 208—33.)



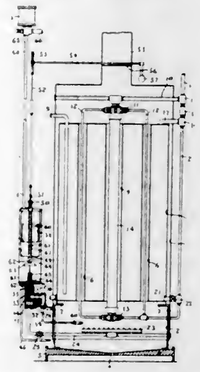
1. A vehicle comprising a frame, a low seat thereon, axles mounted to the frame, wheels secured to the axles, and opposite side bars connecting the wheels on each side in a manner to cause them to be rotated by a gyratory movement of the bars, the bars being arched upwardly above the plane of the frame and seat and adapted as hand-holds whereby they may be easily grasped and operated by a person occupying the seat.

1,336,936. CURTAIN-POLE AND SHADE-ROLLER HOLDER. FRED JOSEPH WRONA, Hamtramck, Mich. Filed Apr. 26, 1919. Serial No. 292,788. 1 Claim. (Cl. 156—23.)



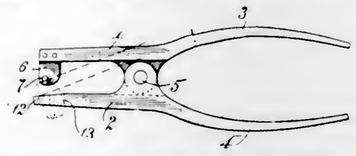
A curtain fixture comprising brackets having body portions provided each with a roller supporting arm extending forward from one side edge thereof, a frame engaging arm extending rearwardly from the other side edge, bars extending at right angles from the fred end of said frame engaging arms, one of said bars being double and composed of laterally spaced members connected at their upper edges, the free end of said double bar being cut away at its connected edge, the side members of the double bar having lugs extending from their free edges at their free ends, a dog mounted between said lugs opposite said cut away portion, the other bar slidable between the members of the double bar and having its outer edge toothed for engagement by said dog, and a lug extending from the toothed edge of said bar near its free end, and a slide on said double bar to extend over the free end of the toothed bar and hold it in engagement with said dog.

1,336,937. GAS WATER-HEATER. DAVID WILLIAM ALLMAN, Toronto, Ontario, Canada. Filed Dec. 18, 1915. Serial No. 67,569. 7 Claims. (Cl. 161—7.)



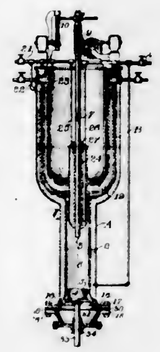
1. In a gas water heater the combination with a self closing gas valve, of a fluid container arranged to open said gas valve by gravity pressure of the weight of fluid contained therein, said container being adapted to automatically discharge the fluid therefrom so that when the weight is discharged the gas valve is released and allowed to close, and manually operated means for placing operating fluid in said container in predetermined quantity.

1,336,938. COTTER-EXTRACTOR. WILLIAM E. AYLOR, Dayton, Ohio. Filed Oct. 22, 1919. Serial No. 332,502. 2 Claims. (Cl. 29—86.2.)



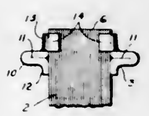
1. An implement of the character described, comprising coöperating jaws extended in the form of handle portions which are pivotally united, one of said jaws having a transverse pin mounted therein below the plane of the jaw and either end of which is adapted to enter the eye of a cotter, and the other of said jaws having an opening therein through which said pin is inserted to a position to enter said eye.

1,336,939. ELECTRIC FURNACE. SVEND BAHFOED, Berkeley, Calif. Filed Sept. 25, 1916. Serial No. 121,987. 6 Claims. (Cl. 204—31.)



1. An electric furnace comprising an elongated water-jacketed tube, an electrode in each end of the tube, means for admitting air or gas at one end of the tube and directing it through the sphere of action of the electric arc, and means forming a continuation of the other end of the tube for rapidly decreasing the temperature of the air or gas after it leaves the electric arc.

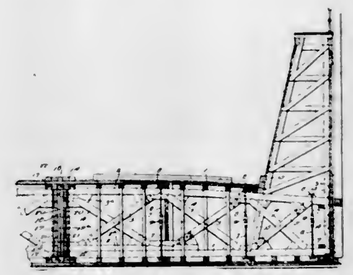
1,336,940. RAIL-BOND. JOHN ROWLAND BROWN, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Nov. 2, 1917. Serial No. 199,959. 3 Claims. (Cl. 173—278.)



1. A rail bond comprising a bond body composed of copper, and a terminal member composed of ferrous metal, the terminal partially encircling the bond body and comprising a shelf having a flange provided with inwardly extending projections adapted to engage the unencircled portion of the bond body for the purpose of securing the terminal and body together, the shelf being formed by folding the metal upon itself in such a manner as to eliminate all space between the parts of the fold.

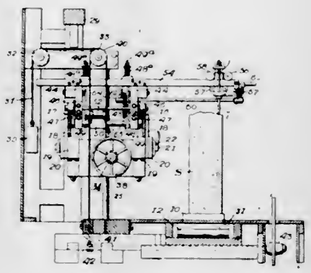
1,336,941. FLOATING WOODEN DRY-DOCK. JAMES L. BRYNE, Boston, Mass. Filed Aug. 15, 1919. Serial No. 317,824. Renewed Mar. 11, 1920. Serial No. 365,092. 2 Claims. (Cl. 114—45.)

1. In a floating wooden drydock, a center bulkhead or keel girder composed of a web built up of diagonal and horizontal planking, a top flange composed of a series of horizontal timbers bolted together, a bottom flange composed of horizontal timbers bolted together, the central timbers of each of the aforesaid series being wedge-shaped, and tension rods passing through and between the top



and bottom flanges, and securing the structure rigidly together as a unit.

1,336,942. STONE PROFILING MACHINE. ELROY A. CHASE, Northfield, Vt., assignor to Phillips & Slack, Inc., Northfield, Vt., a Corporation of Vermont. Filed Apr. 29, 1919. Serial No. 293,428. 11 Claims. (Cl. 125—2.)



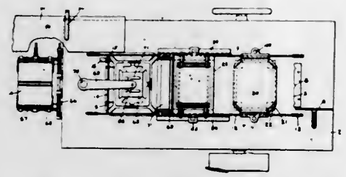
1. A stone profiling machine comprising a pattern, means to raise and lower said pattern, means to relatively adjust the pattern and stone longitudinally, a carriage movable longitudinally on said pattern, and a tool carrier mounted to move transversely on said carriage and effective to position a cutting tool in accordance with said pattern.

1,336,943. SAFETY-SPRING FOR BERTHS, &c. RICHARD T. CRANE, Jr., Chicago, Ill. Filed June 4, 1917. Serial No. 172,760. 4 Claims. (Cl. 5—71.)



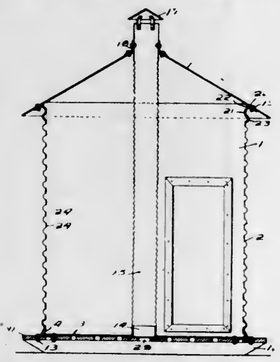
1. A bed of the character described comprising a supporting member, a supplemental supporting member adjacent and extending longitudinally thereof, standards rising from each of said members and pivotally connected each to each, mattress sections for each member, said sections having their top surfaces lying in substantially the same plane as the pivotal point of said standards and means for retaining one of said members in a position inclined with respect to the other member.

1,336,944. MACHINE FOR MAKING BOOK-COVERS. THOMAS DEAN, Indianapolis, Ind. Filed June 28, 1918. Serial No. 242,483. 13 Claims. (Cl. 11—2.)



1. A machine for forming book covers including means for holding the edges of the cover boards against upward yielding movement while the edges of the covering material are folded over the edges of the cover boards, and means for turning the edges of the covering materia' over the edges of the cover boards, the inner edges of said turning means directly engaging and pressing against the holding means for moving said holding means inwardly and out of the path of the folding over edges of the covering material.

1,336,945. GRAIN-STOREHOUSE CONSTRUCTION. LIZZIE H. DICKELMAN, Forest, Ohio. Filed Oct. 29, 1919. Serial No. 334,140. 9 Claims. (Cl. 189—3.)



1. A metal grain bin formed of a plurality of ventilating building plates, said plates having corrugations formed therein and flat portions located between the corrugations, the flat portions having a plurality of hooded openings formed therein, the said corrugations extending beyond the said hooded portions whereby the hooded openings are protected from weather and contact with animals.

1,336,946. AIRPLANE. DOUGLAS DOBBINS, Shelbyville, Ind., assignor of one-half to John Day De Prez, Shelbyville, Ind. Filed Oct. 25, 1918. Serial No. 259,667. 3 Claims. (Cl. 244—15.)



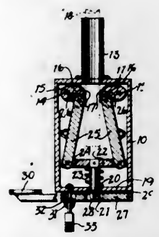
1. The combination with an air-plane of a propeller therefor having a hub, a tube on which said propeller and hub are rotatably mounted, a fluid-actuated motor secured on said tube adjacent the hub of the propeller and having a rotary part secured thereto, and means for supplying fluid under pressure to said motor through said tube.

1,336,947. AIRPLANE. DOUGLAS DOBBINS, Shelbyville, Ind., assignor of one-half to John Day De Prez, Shelbyville, Ind. Filed Nov. 25, 1918. Serial No. 264,076. 8 Claims. (Cl. 244—25.)



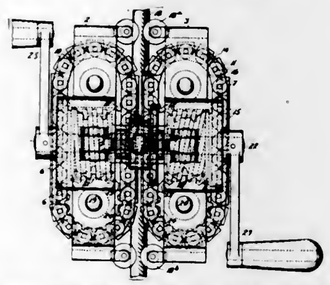
1. The combination with an air-plane, of a plurality of propellers, tubular supports for said propellers, means for supplying fluid under pressure to said supports for driving the propellers, and means for changing the angular positions of the propeller supports.

1,336,948. WHIP-SOCKET. ROBERT F. DOLL, Bartonsville, Pa. Filed May 31, 1918. Serial No. 237,516. 2 Claims. (Cl. 280—176.)



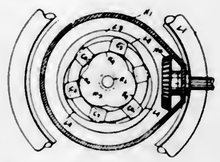
1. A whip socket comprising a casing having a central whip receiving opening in its top, gripping cams pivoted within the casing on opposite sides of its center, a rod slidable through the bottom of the casing and having a transverse cross piece at its upper end, an expansive spring between said cross piece and the bottom of the casing, links connecting the cross piece with said cams, and manually operable means for depressing the rod at will.

1,336,949. PORTABLE ELEVATOR. GEORGE A. EMERSON, San Francisco, Calif., assignor of one-half to Harley S. Bagley, San Francisco, Calif. Filed Feb. 19, 1919. Serial No. 278,033. 10 Claims. (Cl. 187—17.)



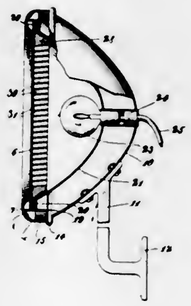
1. A portable elevator comprising a pair of endless sprocket chains arranged on opposite sides of a cable and members on each chain adapted to grip the cable, two pairs of sprocket wheels, one pair for each sprocket chain, adapted to receive and drive each chain, a pair of separate frames one for each pair of sprocket wheels, means for connecting the frames, said means permitting adjustment of the frames to or away from each other, and means for driving the sprocket wheels and chains carried thereby in unison.

1,336,950. GEARLESS DIFFERENTIAL. ANDREW F. FORD, Portland, Oreg. Filed Sept. 8, 1919. Serial No. 322,336. 3 Claims. (Cl. 74—7.)



1. A gearless differential consisting of a cylindrical member attached to one live axle of an automobile, a cam member mounted within said cylinder and secured to the second live axle, a plurality of wedges adapted to occupy space between said cylinder and said cam member, a means for actuating said wedges consisting of a cage having recesses adapted to contain the various wedges, and a means for rotating said cage.

1,336,951. AUTOMOBILE-REFLECTOR DIMMER. BENEDICT FULIGNI and CARL J. MUHSGNUG, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,482. 2 Claims. (Cl. 240—48.4.)



2. In an automobile reflector, the combination with a hollow concave casing, a lamp disposed therein, and means for producing a light in said lamp, of a transparent plate fixed upon the outer edges of said reflector casing, a relatively thick opaque plate suited to be received within the reflector body, an annular flange formed on said plate, and means for securing said flange in intimate relation with said reflector, said plate containing honeycomb-like through openings, the mentioned openings throughout it full area being directed angularly downward from the rear to the front.

1,336,952. ALLYLESTER OF THE 2-PHENYLQUINOLIN-4-CARBOXYLIC ACID. ALPHONS GAMS, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed May 29, 1919. Serial No. 300,659. 1 Claim. (Cl. 23—24.)

As a new article of manufacture the herein described allylester of 2-phenylquinolin-4-carboxylic acid, which dissolves uric acid more easily than the 2-phenylquinolin-4-carboxylic acid and its alkyl esters, is entirely tasteless, boils *in vacuo* (under a pressure of 15 m.m. of mercury) at 260° C., melts at 30° C., crystallize from alcohol in long needles, is insoluble in water, readily soluble in alcohol, ether, acetone and oils and forms a hydrochlorid constituting, when recrystallized from strong alcohol, small citron-yellow needles melting at 145 to 147° C., insoluble in ether and readily soluble in hot alcohol, being instantaneously split into the ester and hydrogen chlorid, when it comes into contact with water, and possessing a weakly sweet taste.

1,336,953. VEHICLE-AWNING. PHILIP MARZOLF GERVIG, Alton, Ill., assignor of one-half to Frank Ormond White, Belleville, Ill. Filed Aug. 30, 1919. Serial No. 320,855. 1 Claim. (Cl. 296—99.)



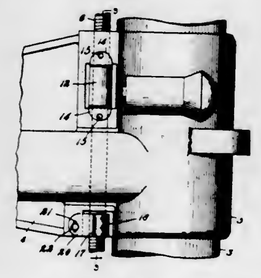
In combination with a vehicle awning, a hollow cylinder with a longitudinal opening in its lateral surface, a stem, said stem projecting longitudinally concentrically through said cylinder and revolubly secured thereto, said awning secured to said stem and passing through the longitudinal opening of said hollow cylinder, a vehicle top, said cylinder secured to one end of said vehicle top, an awning support secured at the opposite end of said top, and means for selectively varying the angularity in position of said cylinder and awning support and hence of said awning without any external means, and means for selectively fastening the free end of said awning to said awning support, a pawl and ratchet positioned at one extremity of said cylinder and secured to said stem, thereby limiting the movement of said awning relative to said cylinder.

1,336,954. COLLAPSIBLE TABLE-TOP. ROBERT ANGUS GILLIES, Calgary, Alberta, Canada. Filed Feb. 2, 1920. Serial No. 355,646. 1 Claim. (Cl. 45—122.)



In combination, a collapsible table top consisting of folding sections the end section having a celluloid face, the central section having perforations for recording purposes and the other end section being provided with means for holding the recording pegs, the whole of the sections when extended forming an upper plane surface which is maintained by braces pivoted to the back of alternate sections and plates secured to the backs of corresponding alternate sections between which plates and the back of the sections, the braces engage to form a rigid top, all substantially as described.

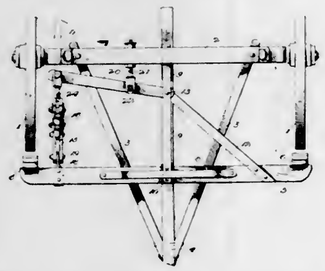
1,336,955. SAFETY-NUT. JAMES CLYDE HALDEMAN, Salem, Ohio, assignor to The Silver Manufacturing Company, Salem, Ohio, a Corporation of Ohio. Filed May 2, 1919. Serial No. 294,185. 7 Claims. (Cl. 77—28.)



1. In a drilling machine, a column, an arm slidably mounted thereon, a screw shaft for vertically moving

the arm, a threaded bearing carried by the arm engaging said screw shaft and a safety nut loosely mounted carried by the arm and engaging the screw shaft.

1,336,956. WAGON-BRAKE. ROBERT L. HANEY, Elkmont, Ala. Filed Feb. 7, 1919. Serial No. 275,580. 3 Claims. (Cl. 188—12.)

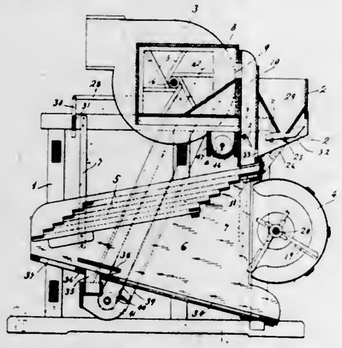


1. A wagon brake mechanism, comprising a brake beam adapted to rest and slide on the bounds of the wagon running gear and having a bottom loop to loosely pass under said bounds, said beam having a central rearward rigid pull bar fixed thereto and adapted to slidably enter the rear bolster of the running gear, an intermediate lever adapted to be fulcrumed to the vehicle running gear and having pull connection with said pull bar, an operating lever having direct fulcruming pull connection with one end of said beam, and also having fulcruming pull connection with said intermediate lever, and a rigid brace from said pull bar at the pull connection of the intermediate lever therewith to the opposite end of said beam.

1,336,957. DRY LIME AND SULFUR PRODUCT AND METHOD OF MAKING THE SAME. OSCAR FRED HEDENBURG, Pittsburgh, Pa., assignor to Frank O. Moburg, Toledo, Ohio. Filed Nov. 20, 1918. Serial No. 263,355. 13 Claims. (Cl. 23—13.)

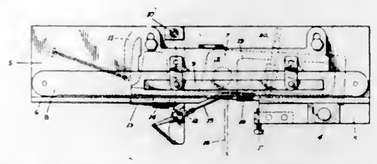
1. The method of producing a dry lime and sulfur product which consists in distilling a solution of lime and sulfur until the resulting concentrated product will pour while hot and harden upon cooling, and solidifying such resulting concentrated product by cooling the same.

1,336,958. GRAIN-SEPARATOR. THOMAS O. HELGERSON, Minneapolis, Minn. Filed Mar. 17, 1915. Serial No. 14,911. 4 Claims. (Cl. 130—15.)



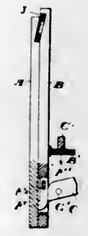
3. In a separator of the kind described, the combination with a vibratory shoe having a gang of superimposed sieves, and means receiving a portion of the stock from said gang and delivering the same directly to one of the sieves of said gang.

1,336,959. HACKSAW-GRINDER. EUGENE E. HENRY, Stockton, Calif. Filed Dec. 27, 1918. Serial No. 268,461. 3 Claims. (Cl. 76—37.)



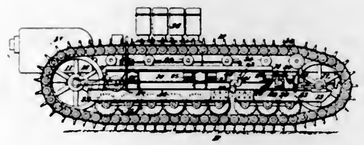
1. A hack saw grinder comprising a base adapted to be mounted at right angles to the frame of a grind wheel, a plate pivoted to the base at one end thereof for limited swivel movement thereon to and from the grind wheel, means whereby a hack saw blade may be slidably mounted to the plate for longitudinal movement thereon, and a lip adjustably mounted on the base and adapted to abut against the teeth of the saw, whereby the movement of the saw toward the wheel may be governed.

1,336,960. COIN-FREED STAMPING APPARATUS. FRED HILTON, Manchester, England. Filed Feb. 16, 1915. Serial No. 8,484. 7 Claims. (Cl. 194—78.)



1. In a coin-freed stamping machine, a reciprocable stamp bar, a reciprocable operating bar for operating said stamp bar, abutments on said stamp and operating bars for the reception of a coin standing on its edge to form an operating connection between the bars, a coin chute leading to said abutments, a clutch device adapted when said stamp bar is operated to retain the same until the operating bar has been moved back to release the coin, and a connection between the handle and the clutch device for releasing the latter.

1,336,961. TRACTOR. PLINY E. HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Oct. 1, 1917. Serial No. 194,253. 15 Claims. (Cl. 180—9.)



1. In a vehicle, a main frame, articulated roller truck mechanism for supporting the same, a self-laying track upon which the roller truck mechanism operates, and fixed connections between the truck mechanism and the main frame permitting vertical rocking movement of the articulated sections, whereby they may assume different relative positions varying from a straight line to an upwardly diverging angle of approximately 135°, whereby to conform to the contour of the ground over which they are passing.

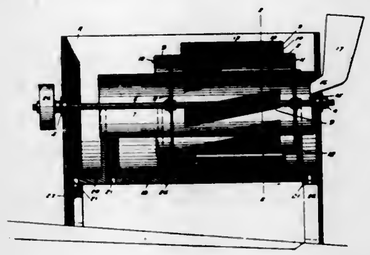
11. In a vehicle, a main frame, articulated roller truck mechanism for supporting the same, an endless track upon which said truck mechanism travels, and connections between the opposite ends of said truck mechanism and the main frame permitting the latter to move freely in a vertical direction at its joint, whereby to conform to the contour of the ground.

1,336,962. RUBBER SHOE. FRANK A. JOSEPH, New Haven, Conn., assignor to L. Candee & Co., a Corporation of Connecticut. Filed Sept. 25, 1918. Serial No. 255,565. 6 Claims. (Cl. 36—6.)



5. A heelless rubber sandal comprising an upper, a sole, and a heel strap secured together, said strap being folded to form a plurality of substantially co-extensive plies one of which is bent around the other to form a reinforcing binding, the folded plies of the strap being joined to the rear edges of the upper by staggered lap seams and being also joined to each other adjacent their junction with the sole.

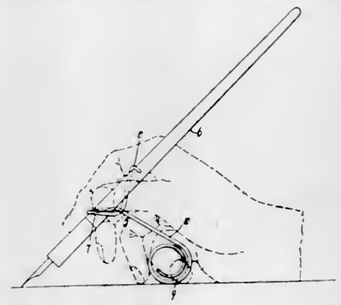
1,336,963. COMBINATION CONCENTRATOR AND CLASSIFIER. ALBERT E. KEARLES, San Francisco, Calif. Filed May 22, 1919. Serial No. 298,972. 3 Claims. (Cl. 83—67.)



1. An inclined box-shaped container having transverse partitions of different height extending upwardly from the bottom, a power shaft journaled longitudinally within the container, a plurality of cylinders mounted concentrically on said shaft and having inclined screens fixed at intervals in the periphery, the inner cylinder extending beyond the outermost partition and the outer cylinder discharging between said partition and the next interior one, and means to supply material to the inner cylinder and discharge the collections from each of said inclosed spaces.

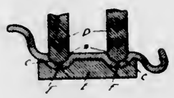
1,336,964. PENHOLDER-SUPPORT. RICHARD KELSEY, Lynn, Mass. Filed Nov. 25, 1919. Serial No. 340,563. 5 Claims (Cl. 120—107.)

1. A pen-holder support comprising a piece of wire with a loop intermediate its ends adapted to encircle a pen-holder, said support terminating at one end in a laterally extending arm adapted to engage the upper side of



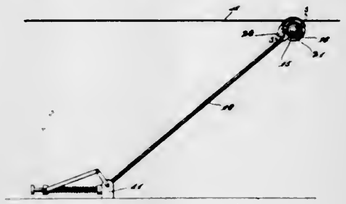
said pen-holder and terminating at the opposite end in a foot adapted when said pen-holder is in writing position to rest upon the surface being written upon.

1,336,965. WIRE-WHEEL RIM AND METHOD OF MAKING SAME. FRED R. KLAUS, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 9, 1919. Serial No. 270,371. 5 Claims. (Cl. 113—51.)



1. The method of making wire wheel rims, which consists in providing a circular rim, producing inwardly extending sockets or depressions in said rim and producing a counter-depression in each of said sockets or depressions in the convex side thereof.

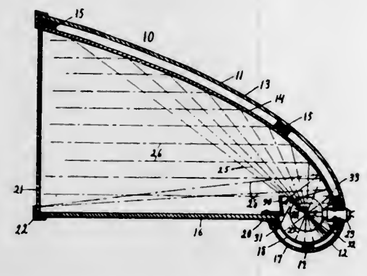
1,336,966. TROLLEY-RETRIEVER. JOHN KOZAK, Milwaukee, Wis. Filed Nov. 26, 1918. Serial No. 264,152. 1 Claim. (Cl. 191—75.)



In a device of the class described, the combination with a fork, a spindle fixed in the arms of said fork and extended beyond the same, and a pulley disposed for rotation on said spindle between said arms, of arcuate retrieving elements, one being disposed on each side of said pulley, a collar fixed to each end of said spindle, a loose disk disposed on the spindle between each of said collars and the adjacent fork-arm, connecting arms extending from said disks to the adjacent retrieving elements, a spring for yieldably holding each of said elements in operative position, one end of each spring being secured to one of said collars and its other end connected with the adjacent element, and a plurality of longitudinally extending alternate ridges and grooves formed on the periphery of each of said elements, the grooves of each of the elements being curved toward the pulley at their inner ends to direct a wire or the like onto said pulley, the

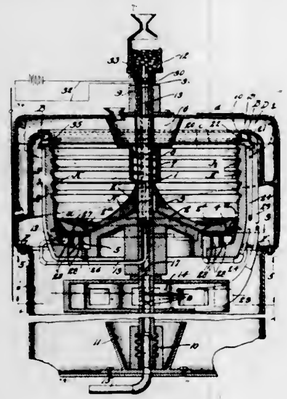
ridges of said elements remote from the pulley being formed on a larger radius than the ridges adjacent said pulley whereby to prevent the wire or the like passing off of said elements.

1,336,967. AUTOMOBILE-HEADLIGHT. JOHN HARVEY LAIRD, Louisville, Ky., assignor to Laird Manufacturing Company, Louisville, Ky., a Corporation of Kentucky. Filed Nov. 14, 1918. Serial No. 262,437. 2 Claims. (Cl. 240—41.)



2. In combination, a base the upper surface of which is non-reflecting and which is provided with an opening at its rear end, a semi-parabolic reflector mounted upon said base, a semi-circular reflector movably positioned against the lower surface of the base concentric with said opening and a source of light located in the confocal point of said reflector.

1,336,968. CENTRIFUGAL SEPARATING-MACHINE. RALPH E. LAPHAM, San Francisco, Calif. Filed June 8, 1916. Serial No. 102,533. 30 Claims. (Cl. 83—67.)



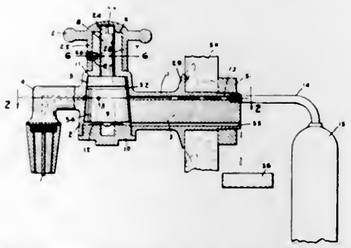
2. In a centrifugal separator, the combination of a bowl having a reservoir containing a separating medium, means for supplying pulp to the bowl for separation, means for rotating the bowl whereby to cause the separating medium to traverse the inner wall of the bowl, and to cause movement of the pulp over and through the separating medium according to the specific gravities of its constituents, the bowl having separate outflow passages for the pulp tailings and for the separating medium, and means to produce a positive force in opposition to the outflow of the separating medium for acting on the tailings and separating medium to direct the same to their respective outflow passages at the conclusion of the separating operation.

1,336,969. SAFETY-RAZOR. BARNEY LA ROCK, Kansas City, Mo. Filed Feb. 15, 1918, Serial No. 217,451. Renewed Mar. 8, 1920. Serial No. 364,250. 6 Claims. (Cl. 30—12.)



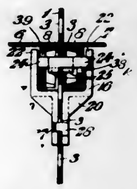
1. A razor comprising clamping bars, a blade receivable between them, and bar engaging means on the blade and movable therewith in one direction to draw the bars into clamping position.

1,336,970. FAUCET. WILLIS E. LA RUE, Indianapolis, Ind., assignor of one-half to William P. Hall, Indianapolis, Ind. Filed Feb. 16, 1918. Serial No. 217,498. 2 Claims. (Cl. 225—25.)



1. A faucet structure having an opening therein a plurality of longitudinally extending bores communicating with said opening, a valve adapted to fit in said opening, said valve having a peripheral channel adjacent its upper end, a drainage chamber adjacent its lower end and vertically extending channels communicating with the peripheral channel and drainage chamber whereby the seepage from the parts of the faucet around the valve will be gathered in said channels and conveyed to said chamber and discharged through one of said longitudinally extending bores.

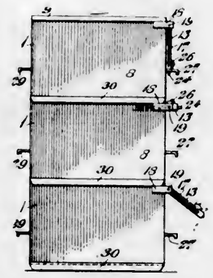
1,336,971. ADJUSTABLE SHELVING. ALBERT H. LEVENE, Philadelphia, Pa. Filed Sept. 13, 1919. Serial No. 323,506. 20 Claims. (Cl. 211—27.)



5. In shelving, the combination with an upright having vertically extending lines of spaced slots arranged in pairs, of a shelf having a flange provided with slots to register with a pair of slots in the upright, one of the flange slots being closed and the other flange slot being longer than the first slot, and a clip having a pair of locking members one of which passes through one slot of a pair in the shelf and upright and the other of which passes through a different slot in the upright to prevent rocking or wabbling of the shelf.

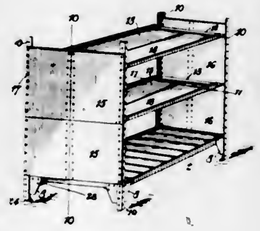
1,336,972. TOTE-BOX. ALBERT H. LEVENE, Philadelphia, Pa. Filed Sept. 24, 1919. Serial No. 325,922. 12 Claims. (Cl. 220—38.)

1. A tote box having sides, a bottom, ends, and an open and unobstructed top, stacking means operatively connected with said box, one of said ends having a cut-away portion to form a front replenishing and delivery opening when the box is stacked, the remaining fixed portion of



such end preventing articles falling out of the box when it is being carried around, and a reinforcing member at the upper front end of said box and connected to its sides.

1,336,973. MOVABLE PLATFORM. ALBERT H. LEVENE, Philadelphia, Pa. Filed Nov. 3, 1919. Serial No. 335,463. 14 Claims. (Cl. 248—41.)



1. A movable truck platform, comprising a body portion, and corner standards adjustably connected to said body portion, whereby the height of the body portion from the ground may be varied to enable the use of truck platforms of different heights.

14. A platform superstructure, comprising uprights and sectional shelves, each shelf section being movably connected with the juxtaposed uprights, and means to lock said shelf sections in horizontal position, whereby when said locking means are released the shelf sections can be moved upwardly or downwardly to form sides.

1,336,974. THE MANUFACTURE OF A BORON DERIVATIVE OF PYROPHOSPHORIC ACID. BERTRAM LEVIN, Hale, England. Filed May 15, 1918. Serial No. 234,674. 6 Claims. (Cl. 23—10.)

6. A non-hygroscopic compound comprising a pyro-phosphate of boron.

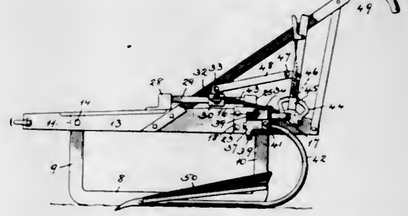
1,336,975. CATTLE-STANCHION. NELS LOGAN, Albert Lea, Minn. Filed Mar. 17, 1919. Serial No. 283,240. 12 Claims. (Cl. 119—148.)

1. A stanchion having yoke members movable toward and from each other at the upper ends, a single flexible supporting element for each yoke member having a greater spread at its supporting end than at the yoke member when the stanchion is in closed position, thereby imparting to the yoke members a constant tendency to move to the open position and a link for embracing the approached



upper ends of the yoke members to hold them in the closed position.

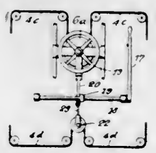
1,336,976. VINE-CUTTER. GEORGE L. MCCREADY, Parksley, Va. Filed Feb. 5, 1919. Serial No. 275,055. 6 Claims. (Cl. 55—60.)



1. The combination with a beam, of a runner supporting the beam; a bar extending lengthwise of the beam; carrier heads sustained at opposite sides of the beam; an operating lever at the rear of the said beam; a slide head movable on said bar; connections between the slide head and the carrier heads; means for connecting the slide head with the lever, and cutter arms secured in the carrier heads.

6. A carrier head for vine cutting machines having a sleeve member and a socket member said socket member having a passage therethrough which is elongated at one end and adjusting devices at opposite sides of the elongated passage-end.

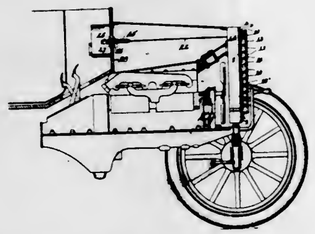
1,336,977. AEROPLANE CONTROL. FRANK L. MORSE, Ithaca, N. Y. Filed July 5, 1917. Serial No. 178,528. 1 Claim. (Cl. 244—29.)



In an aeroplane, the combination with one or more wings, of aileron surfaces at opposite sides, control lines leading to said opposite ailerons, a drum for said control lines, a hand wheel for rotating said drum to turn the opposite ailerons in opposite directions, a movable frame for

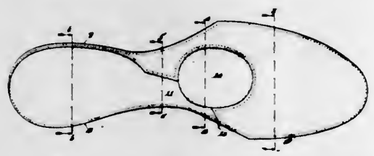
carrying said drum, a take-up device for one of the control lines, and a manually operated means for shifting said frame and the take-up device to turn the opposite ailerons in the same direction.

1,336,978. RADIATOR-SHUTTER. CHARLES A. PIPENHAGEN, Chicago, Ill. Filed Dec. 26, 1918. Serial No. 268,308. 5 Claims. (Cl. 257—132.)



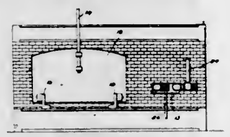
1. In a shutter device for automobile radiators, the combination of a frame, a series of shutters pivotally mounted in said frame, means connecting all of said shutters to operate in unison, a rod traversing said frame under one of said shutters, a coiled spring mounted on said rod and connected with a corresponding shutter to hold said shutters normally open, and means for closing said shutters.

1,336,979. ORTHOPEDIC PAD. ARTHUR BUCKLAND PLUMMER, Chicago, Ill. Filed July 23, 1918. Serial No. 246,307. 5 Claims. (Cl. 36—71.)



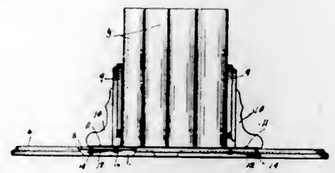
1. An orthopedic pad comprising a body adapted to fit within the bottom of a boot or shoe; a correcting pad arranged at the inner edge along the rear portion of said body and sloping off toward the outer side thereof; and a correcting pad located centrally of said body just to the rear of the tread portion thereof and forward of the instep portion, the remaining portions of said body being substantially flat and of uniform thickness, substantially as described.

1,336,980. FURNACE. ALBERT C. RHODES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 31, 1919. Serial No. 274,203. 7 Claims. (Cl. 158—1.)



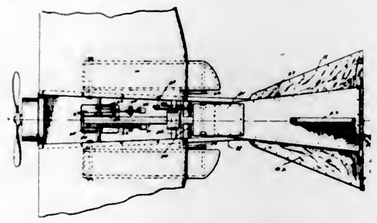
1. A self contained removable baffle block for a furnace having a baffle projecting from the body thereof presenting a convex exterior deflecting surface, an interior chamber extending into said projecting baffle, and air admission and exit openings into and from said chamber, whereby air in its passage through the chamber abstracts heat from the baffle thus cooling the baffle and heating the air.

1,336,981. BOOK-RACK. FRIDOLIN SCHIMMEL, Faribault, Minn. Filed May 19, 1919. Serial No. 298,073. 2 Claims. (Cl. 45—53.)



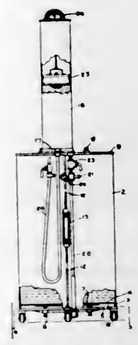
1. A book rack comprising a base board formed in its under side with a groove and with a relatively narrow slot opening from said groove to the top of the board, clamping heads applied on said board, at least one thereof being adjustable toward and from the other, curved spring metal clamping strips working in said groove and being wider than said slot, and screws connecting the ends of said clamping strips to said clamping head, through said slot, the inner screw being adjusted to closely clamp the inner end of said clamping strip against the flanges formed by said groove and slot, and the outer screw being adjusted to afford large clearance between the outer ends of said clamping strip and said flanges.

1,336,982. AEROPLANE. JESSIE D. DENSON, Grand Rapids, Mich. Filed Nov. 5, 1918. Serial No. 261,260. 6 Claims. (Cl. 244—21.)



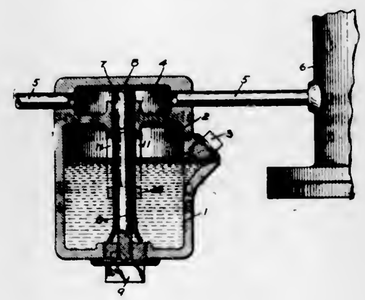
1. An aeroplane including a fuselage having the tail portion formed with a braking member subject to change in its cross sectional area by air pressure, and means for controlling the entrance of air pressure to said braking member.

1,336,983. OIL-RESERVOIR. HANS M. BOE, Minneapolis, Minn. Filed Oct. 25, 1917. Serial No. 198,487. 4 Claims. (Cl. 221—74.)



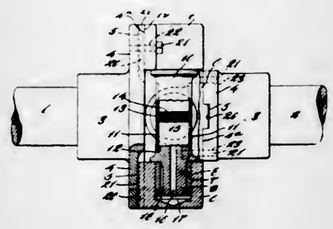
1. In a dispensing apparatus, the combination, with a sheet metal barrel adapted to contain oil and having comparatively thin heads and walls and having means for admitting air pressure therein, of a lower spider seated against the lower head of said barrel, an upper spider seated on the upper head of said barrel, said spiders having arms projecting radially beyond the heads of said barrel, rods adjustably connecting the corresponding arms of said spiders at the top and bottom of the barrel, and said spiders having means for bracing and reinforcing the heads of the barrel.

1,336,984. ANTIFREEZE DEVICE FOR FLUID-PRESSURE SYSTEMS. ALFRED B. WOOD, Chicago, Ill. Filed May 22, 1919. Serial No. 299,060. 5 Claims. (Cl. 137—72.)



3. The combination with a fluid pressure system including a compressor for compressing fluid, of a receptacle containing alcohol and a wick exposed to the current of fluid passing to the suction inlet of the compressor and extending into said receptacle and adapted to be saturated with alcohol by capillary attraction.

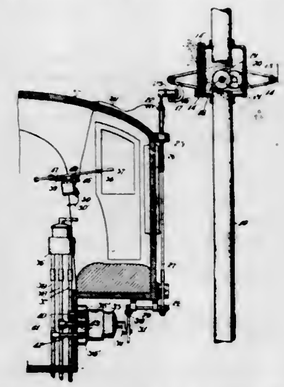
1,336,985. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 19, 1919. Serial No. 305,331. 4 Claims. (Cl. 64—102.)



1. In a universal joint, the combination of a hub having a base flange provided with a seat having a recess projecting into the same from one end thereof, a bearing block having a projection adapted to enter said recess, and means for securing said block to said seat.

1,336,986. RAILWAY SAFETY DEVICE. AMOS HOFFMAN SIMMS, Chicago, Ill. Filed Apr. 29, 1918. Serial No. 231,292. 11 Claims. (Cl. 246—187.)

1. In a railway safety device, the combination of means elevated above and entirely clear of the road bed and adapted to be selectively positioned in operative and inoperative positions, an auxiliary three way valve mounted on a train, a cam track carried by said means and operating means on said train connected to said three way



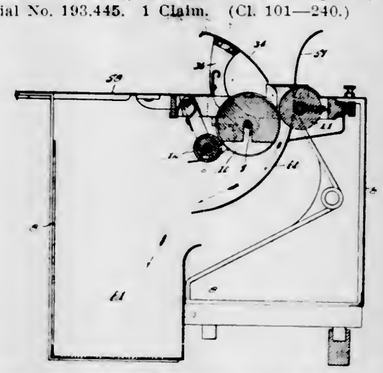
valve to open the latter when said operating means engages said cam track.

1,336,987. FISHHOOK. JOHN O. BECVAR, Chicago, Ill. Filed Jan. 13, 1919. Serial No. 270,842. 4 Claims. (Cl. 43—37.)



1. A device of the class described comprising a plurality of connected hooks movable toward and from each other and means shiftable longitudinally with respect to said hooks for spreading the same when a pulling force is exerted on said hooks, the shanks of said hooks at opposite sides of said means converging toward each other, substantially as described.

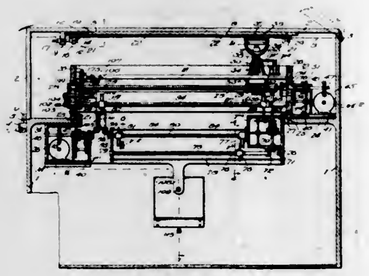
1,336,988. PRINTING MECHANISM. GEORGE M. BRECKENRIDGE, Chicago, Ill., assignor of one-half to James P. McManus, Chicago, Ill. Filed Sept. 27, 1917. Serial No. 193,445. 1 Claim. (Cl. 101—240.)



A machine of the class described comprising a casing; a printing roller arranged in said casing adjacent the top

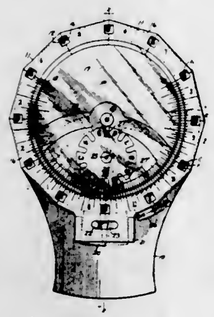
thereof, there being an opening in said casing giving access to said printing roller; an impression roller arranged in said casing adjacent the top thereof and in operative relation with said printing roller, the forward portion of the top of said casing constituting a table for feeding articles to said rollers; and a guide situated to the rear of said rollers to guide articles to be printed thereto, said guide extending downwardly beyond said rollers and thence forwardly to direct the printed articles to a position under said table, substantially as described.

1,336,989. PRINTING DEVICE. LESTER A. STANLEY, Washington, D. C. Filed Feb. 10, 1917. Serial No. 147,837. 28 Claims. (Cl. 95—73.)



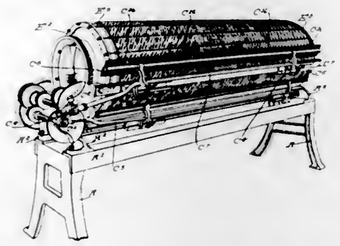
1. In a device for printing on sensitized plates, a frame for holding the sensitized plate, a negative holder movable to different printing positions with respect to the plate and means for automatically moving the negative holder intermittently to different printing positions.

1,336,990. CALCULATOR. MARTIN SWENSON, Chicago, Ill. Filed Feb. 8, 1918. Serial No. 215,950. 5 Claims. (Cl. 235—78.)



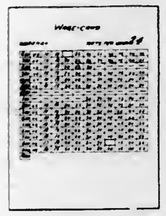
1. In a calculator, a base, a graduated ring mounted thereon and having openings in line with the principal graduations, a second ring located between the base and the first mentioned ring, said second ring being adjustable to either of two positions and having numbers thereon arranged to be displayed through said openings in the manner described, a dial mounted to turn upon a pivot located at the common center of said rings, said dial being provided with perforations corresponding to said graduations and said perforations being adapted to receive a stylus for turning the dial on its pivot, and a stop for said stylus, said stop being secured to and movable with said adjustable ring.

1,336,991. APPARATUS FOR SNIPPING STRING-BEANS. WILLIAM E. URSCHEL, Valparaiso, Ind. Filed Jan. 22, 1920. Serial No. 353,185. 22 Claims. (Cl. 146—7.)



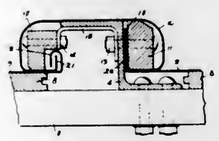
1. A string bean snipping cylinder with orifices having tapering side walls terminated by a narrow neck at the outer cylindrical surface, substantially as described.

1,336,992. MEANS EMPLOYED IN CARD-ACCOUNTING SYSTEMS. HARM HENDRIK VAN SANTEN, Delft, Netherlands. Filed June 3, 1919. Serial No. 301,518. 4 Claims. (Cl. 283—1.)



1. Means employed in card accounting systems for calculating the wages earned by a workman between two given hours, consisting of a wage-card having the hours printed in lines across the face thereof, and a key-card having the amounts corresponding to such hours printed across the face thereof but in the opposite direction to that of said hours so that, when the cards are placed face-to-face, the wage figures corresponding to the hours of commencing and stopping work are disclosed through punch holes in the wage-card at such hours.

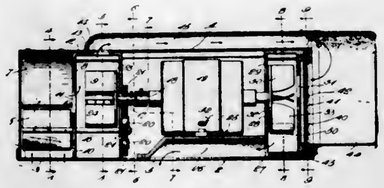
1,336,993. METAL ROOF FOR CARS. FREDERICK M. WHYTE, Tarrytown, N. Y. Filed Aug. 15, 1919. Serial No. 317,679. 13 Claims. (Cl. 108—5.4.)



1. In a car roof, the combination of the carlines, metal roofing sheets located between said carlines and each having one of its side edges rigidly fastened to a carline and the other side edge free to slide, and carline caps covering the side edges of adjoining roofing sheets.

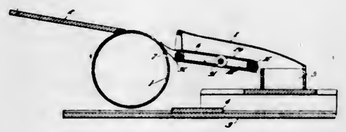
1,336,994. VACUUM CLEANING APPARATUS. CHARLES W. BARNES, Logansport, Ind. Filed Aug. 29, 1918. Serial No. 251,921. 8 Claims. (Cl. 15—60.)

1. A cleaner comprising a casing having an induction orifice and also having an eduction orifice, a fan chamber disposed in said casing and having an induction orifice in one transverse wall, and an eduction orifice in registration with that of the casing, longitudinal duplex



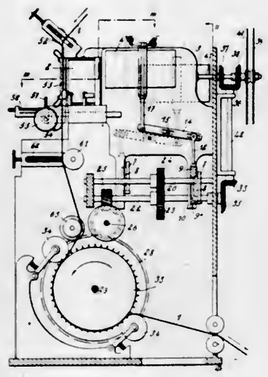
fans arranged in the casing side by side and opposite the induction orifice of the same, a fan disposed in the chamber and connected with the duplex longitudinal fans, and means in the casing for driving said connecting fans.

1,336,995. DEVICE FOR PREVENTING OFFSET IN PRINTING-PRESSES. ALLEN B. BECK, Cleveland, Ohio. Filed July 31, 1919. Serial No. 314,473. 6 Claims. (Cl. 101—422.)



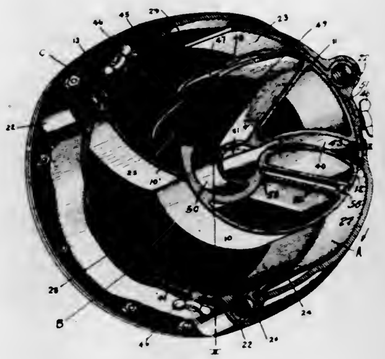
3. The combination with a printing mechanism, of a roller over which the printed sheets pass from said mechanism, said roller being provided with means to apply glycerin to said sheets as they pass thereover.

1,336,996. MOVING-PICTURE APPARATUS. DANIEL BOIXEDA, Barcelona, Spain. Filed May 22, 1917. Serial No. 170,208. 6 Claims. (Cl. 88—16.8.)



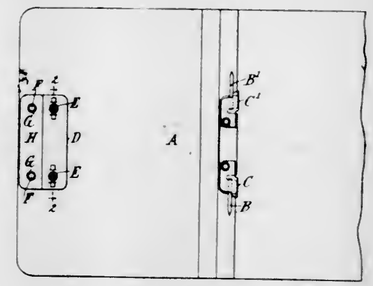
1. In a moving picture apparatus the combination of means for continuously moving a film, two objectives arranged side by side, means between the film and said objectives for allowing light rays to pass through the film and one of said objectives in a rectilinear direction while causing light rays to pass through the film and the other objective along a broken path, means for reciprocating said objectives, and shutters adapted to expose said objectives alternately.

1,336,997. ROTARY ENGINE. ARTHUR J. BOLFING, San Francisco, Calif. Filed Aug. 9, 1918. Serial No. 249,103. 11 Claims. (Cl. 121—55.)



1. A rotary engine comprising a stator set eccentric to the axis of the engine and having a nozzle therein; a rotor inclosing said stator, concentric with said axis and circumferentially contacting with said stator and closing said nozzle, and having recesses therein; adjustable cut-off means interposed between said rotor and stator contiguous to said nozzle and said recesses; vanes interposed at intervals between said stator and rotor; and means for introducing an expansive medium through said nozzle, and exhausting it from between said vanes.

1,336,998. PUNCTURING DEVICE FOR FILES, BINDERS, OR THE LIKE. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to William A. Cooke, Brooklyn, N. Y. Filed Apr. 20, 1915. Serial No. 22,544. 6 Claims. (Cl. 129—7.)

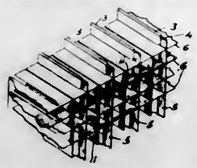


2. A puncturing device for files, binders or the like comprising a flexibly mounted member having a substantially circular aperture and a blade like projection adapted to aline with said aperture.

1,336,999. RADIATOR. THOMAS N. COFFELDER, Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1917. Serial No. 157,092. 3 Claims. (Cl. 257—130.)

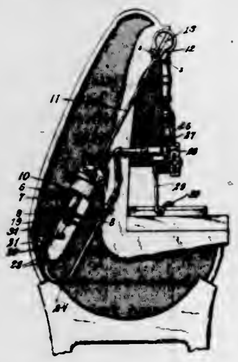
1. A radiator core comprising a series of flat tubes having plain unbroken inner and outer surfaces and of a width to extend substantially from the front to the rear of the core and provided in one of their edges with

spaced notches, in combination with a series of fins provided with slots to receive said tubes and having one edge



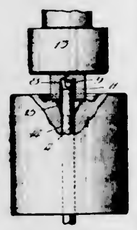
unbroken and engaged in the notches in the tubes and the other edge being provided with means for holding the unbroken edge in said notches.

1,337,000. AIR-BLAST PRESSURE ATTACHMENT FOR PRESSES. WILLIAM COTTRELL, Riverside, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1919. Serial No. 324,320. 3 Claims. (Cl. 164—86.)



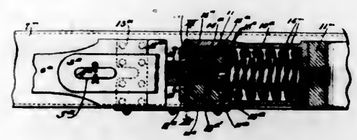
1. The combination with a press, of a relatively small air compression chamber, means whereby each stroke of the press causes air to be compressed into said compression chamber, and whereby each stroke of the press causes air to be suddenly released from said small compression chamber at a time when the air is under relatively high compression.

1,337,001. PROCESS OF MANUFACTURING PUPPET-VALVES. CHARLES F. COUVE, Aurora, Ill., assignor to Couve-Dunham Company, a Copartnership consisting of Thomas M. Dunham and Charles F. Couve. Filed May 12, 1919. Serial No. 296,351. 3 Claims. (Cl. 29—157.)



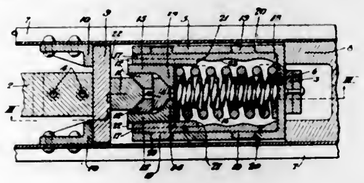
1. The process for the manufacture of puppet valves from two pieces of metal, which includes heating a block of metal having an opening or recess for the accommodation of the end of the stem to a temperature suitable for forging purposes, and thereafter compelling said head to take the form of a circular disk valve head by forcing the same into a die of suitable contour by a pressure exerted on said head in a direction parallel to the direction of the stem, substantially as described.

1,337,002. DRAFT-GEAR. JOHN F. COURSON, Pitcairn, Pa. Filed Dec. 11, 1916. Serial No. 136,142. 8 Claims. (Cl. 213—64.)



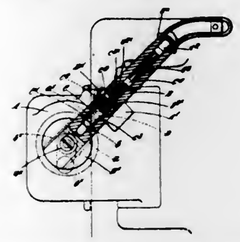
1. A draft gear consisting of a casing, a pair of oppositely located friction shoes within the casing having interior fore and aft bearing recesses, a central compound pressure bar comprising fore and aft abutting sections each provided with recesses, and intervening loosely mounted pressure transmitting members engaging the recesses of the friction shoes and pressure bar respectively.

1,337,003. DRAFT-GEAR. JOHN F. COURSON, Pitcairn, Pa. Filed Mar. 12, 1918. Serial No. 222,023. 2 Claims. (Cl. 213—64.)



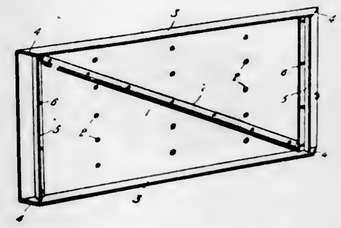
1. In combination with a car underframe having a rear abutment and forward stops, a rectangular casing adapted for mounting in the underframe provided with relatively movable friction creating mechanism, a central wedge block, a draw bar having means connecting it with provision for lost motion to the casing, and a follower interposed between the central wedge block and the rear end of the draw bar; oppositely located wearing shoes inserted between the sides of the casing and movable members of the friction mechanism having lug engagement with the casing and rearwardly extending non-wearing portions extending backwardly into abutting engagement with the rear end of the casing.

1,337,004. BREECH MECHANISM OF ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed Apr. 19, 1918. Serial No. 229,644. 12 Claims. (Cl. 89—20.)



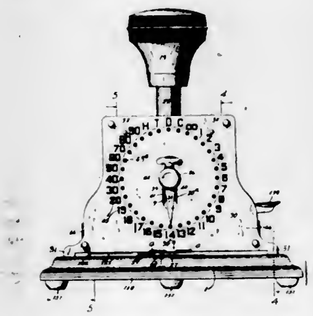
1. The combination with a breech loading gun, of a breech actuating handlever, a stop for limiting locking movement of the lever, a second stop, and means cooperating with the second stop to initially restrain rebounding of the lever as a result of the latter coming forcibly into contact with the first stop and thereafter to return and hold said lever against the first stop.

1,337,005. CORE-PLATE FOR DRYING CORES. HERBERT C. DRUMM, Canton, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed May 3, 1919. Serial No. 294,372. 5 Claims. (Cl. 34—17.)



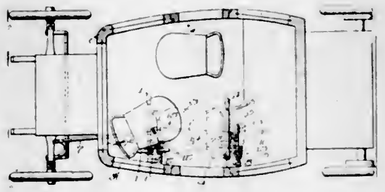
2. A core plate formed of sheet metal provided with integral down-turned flanges upon its longitudinal edges and a reinforcing diagonally disposed member connected to its under surface.

1,337,006. CHECK-WRITING MACHINE. BENJAMIN O. FANSLOW, Queens county, N. Y., assignor to New Era Mfg. Company, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1915. Serial No. 5,008. 37 Claims. (Cl. 197—6.4.)



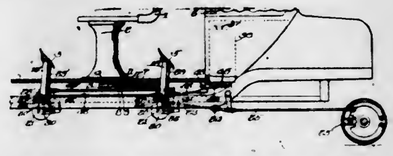
1. In a check writer, a printing wheel, a vertically movable cross head carrying said printing wheel, a feeding device engaging the upper face of the check for feeding the same, mechanism actuated by the cross head for giving a feeding movement to said feeding device, and a controlling cam associated with the printing wheel for determining the extent of movement imparted to the feeding device.

1,337,007. AUTOMOBILE. ROLAND S. FEND, Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 26, 1914. Serial No. 814,311. 19 Claims. (Cl. 180—77.)



15. A vehicle having a steering wheel portion and provided with forward and rear seats from either of which the steering wheel portion is to be controlled; steering mechanism; a handle at each seat for operating the steering mechanism and adjustably mounted to have operating and nonoperating positions; mechanism for establishing operating relation between each handle and the steering mechanism and operable by such handle when thrown into a non-operating position to break the operating relation between such handle and the steering mechanism; and means for preventing a handle from being turned when in idle adjustment at one seat by the operation of the corresponding handle at the other seat.

1,337,008. AUTOMOBILE. ROLAND S. FEND, Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 27, 1914. Serial No. 814,664. Renewed Sept. 30, 1916. Serial No. 123,195. 24 Claims. (Cl. 180—77.)



1. An automobile having forward and rear seats from either of which it is to be controlled; controller mechanism for the motor and having two operating handles, one individual to each of said seats; braking mechanism for checking the travel of the automobile; two brake levers and arms engageable thereby for operating the braking mechanism and each individual to a seat, said brake lever arms being connected to cause the motions of one to occasion similar motions in the other; two devices for setting the braking mechanism and each individual to a seat, said setting devices being connected to cause the motions of one to occasion similar motions in the other; two brake releasing devices each individual to a seat and connected to cause the motions of one to occasion similar motions in the other; and a device common to and operable by each controller handle for operating the releasing devices to release the braking mechanism when the motor is brought into service.

2. An automobile having forward and rear seats from either of which it is to be controlled; controller mechanism for the motor and having two operating handles, one individual to each of said seats; braking mechanism for checking the travel of the automobile; two brake levers and arms engageable thereby for operating the braking mechanism and each individual to a seat, said brake lever arms being connected to cause the motions of one to occasion similar motions in the other; two devices for setting the braking mechanism and each individual to a seat, said setting devices being connected to cause the motions of one to occasion similar motions in the other; two brake releasing devices each individual to a seat and connected to cause the motions of one to occasion similar motions in the other; and a device operable by each controller handle for operating the releasing devices to release the braking mechanism when the motor is brought into service.

3. An automobile having forward and rear seats from either of which it is to be controlled; controller mechanism for the motor and having two operating handles, one individual to each of said seats; braking mechanism for checking the travel of the automobile, two brake levers, and arms engageable thereby for operating the braking mechanism and each individual to a seat, said brake lever arms being connected to cause the motions of one to occasion similar motions in the other; mechanism for setting the braking mechanism; two brake releasing devices each individual to a seat and connected to cause the motions of one to occasion similar motions in the other; and a device operable by each controller handle for operating the releasing devices to release the braking mechanism when the motor is brought into service.

4. An automobile having forward and rear seats from either of which it is to be controlled; controller mecha-

nism for the motor and having two operating handles, one individual to each of said seats; braking mechanism for checking the travel of the automobile; two brake levers and arms engageable thereby for operating the braking mechanism and each individual to a seat, said brake lever arms being connected to cause the motions of one to occasion similar motions in the other; two devices for setting the braking mechanism and each individual to a seat, said setting devices being connected to cause the motions of one to occasion similar motions in the other; brake releasing means; and a device operable by each controller handle for operating the brake releasing means to release the braking mechanism when the motor is brought into service.

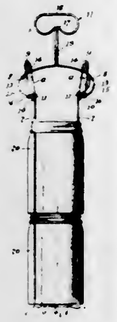
5. An automobile having forward and rear seats from either of which it is to be controlled; controller mechanism for the motor and having two operating handles, one individual to each of said seats; braking mechanism for checking the travel of the automobile; two brake levers and arms engageable thereby for operating the braking mechanism and each individual to a seat, said brake lever arms being connected to cause the motions of one to occasion similar motions in the other; mechanism for setting the braking mechanism; brake releasing means; and a device operable by each controller handle for operating the brake releasing means to release the braking mechanism when the motor is brought into service.

1,337,009. DYE-STICK. WILLIAM V. FOLEY, New Brunswick, N. J., assignor to India Rubber Company, a Corporation of New Jersey. Filed Sept. 16, 1919. Serial No. 324,061. 6 Claims. (Cl. 8—19.)



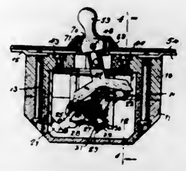
1. A dye stick comprising a portable rod adapted to rest upon the walls of a dye vat and having a smooth surface coating composed of a material unaffected by the heat, moisture and chemicals to which it is exposed.

1,337,010. HOLDER FOR CONTAINERS. SIGMUND FREY, Los Angeles, Calif., assignor to Woolwine Metal Products Company, Los Angeles, Calif., a Corporation of California. Filed May 7, 1919. Serial No. 295,423. 6 Claims. (Cl. 53—1.)



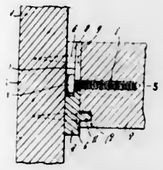
1. A holder of the character described comprising a base, standards rising from the base and forming cam faces at their upper ends, other standards rising from the base and connected at their upper ends with the first standards, and a member pivoted to the last standards and engaging the cam faces to cause movement of the standards.

1,337,011. ELECTRIC SWITCH. FREDERIC P. GATES, Hartford, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed May 8, 1919. Serial No. 295,658. 6 Claims. (Cl. 200—70.)



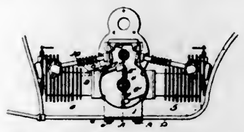
1. An electric switch comprising an oscillating rocker, a pair of rectilinearly guided push plates, an oscillating lever bearing upon said push plates and having a sliding engagement therewith, together with an oscillating thumb piece associated with said lever for swinging the latter on its axis.

1,337,012. BEDSTEAD. GEORGE GOODWIN, Newtown, New Zealand, assignor to Gilbert Henry Lyster, Wellington, New Zealand. Filed Aug. 5, 1916. Serial No. 113,303. 1 Claim. (Cl. 5—55.)



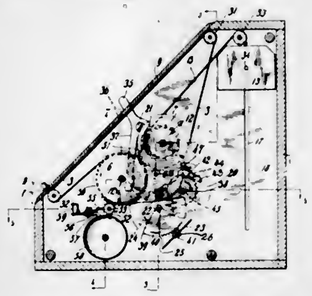
The combination with the end standard and the side rail of a bedstead of a uniform cross section throughout its length of a relatively flat plate of approximately the same cross sectional area as the rail secured to the standard and provided on its inner face medially of its side edges with a vertical and tapered groove leading from the upper edge of the plate, the plate being also provided on its outer face with a vertical slot leading from the upper edge of the plate and communicating with the groove and being of less width than the groove and terminating short of the lower end of the groove, an outwardly projecting stud formed on the front face of the plate near the lower edge and medially of the side edges thereof, the adjacent end of the rail being provided medially of its side edges with a recess opening at the front and the bottom for embracing the stud, and a headed stud arranged centrally of the end edge of the rail and adapted to pass downwardly in the slot and groove for coacting with the bottom thereof at the time the stud on the plate embraces the recess in the rail for maintaining the end edge of the rail in intimate contact with the plate and retaining the standard and the rail substantially rigid with respect to each other when subjected to shocks.

1,337,013. SPLASH LUBRICATING SYSTEM FOR GAS-ENGINES. CARL JOHAN GUSTAFSON, Springfield, Mass., assignor to Hendee Manufacturing Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 26, 1916. Serial No. 105,976. 1 Claim. (Cl. 184—11.)



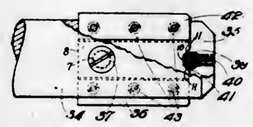
A splash lubricating system for double opposed horizontally arranged cylinders comprising the central crank case adapted to hold a quantity of lubricant, a shaft therein, cranks on said shaft and rotating through said oil whereby the same is splashed into one of said cylinders, an oil passage arranged in the wall of the other cylinder and communicating therewith, said passage being disposed tangentially of the path of travel of the cranks whereby the oil is thrown by the cranks into said passage.

1,337,014. TIME-MEASURING DEVICE CHARLES HAAS, Brooklyn, N. Y. Filed Sept. 23, 1918. Serial No. 255,312. 1 Claim. (Cl. 161—15.)



In combination, a pair of drums, gears on the drums that intermesh, a flexible member secured at its ends to said drums respectively, an indicator on said flexible member, a third drum secured to one of said drums, a flexible member secured to the last named drum, a weight carried by the latter flexible member and arranged to rotate all of said drums and advance the flexible member carrying the indicator, and a governor connected with the drums to regulate the speed thereof, said mechanism being so arranged that reverse movement of the indicator will rewind the latter flexible member and elevate the weight, without operating the governor.

1,337,015. BORING AND REAMING TOOL. CHRISTIAN F. HEINKEL, Cleveland, Ohio. Filed Nov. 4, 1915. Serial No. 59,558. 5 Claims. (Cl. 77—58.)



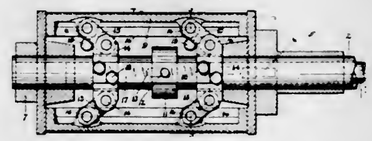
1. A tool of the character described comprising a body, a pilot cutter held against movement in said body, and a finishing cutter floatingly held in said body by said pilot cutter.

1,337,016. DETACHABLE-TOOTH SAW. DAVID W. JENKINS, Seattle, Wash., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 23, 1917. Serial No. 170,417. 2 Claims. (Cl. 143—151.)



1. A saw blade having a circularly curved recess offset at the back and the curve of the back of the recess approaching the circle of the curve of the remainder of the recess at the edge of the blade, a tooth having a back adapted to said offset, and a holder adapted to said recess, the arrangement being such that when the holder is turned the tooth will first be drawn into the offset with a deflecting pressure against the wall thereof at the edge of the blade, and as the tooth is moved into its seating position the said pressure is relaxed and the tooth becomes locked in place by the return of the deflected edge of the saw blade to normal position.

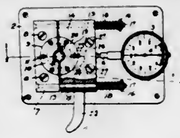
1,337,017. COLLAPSIBLE BLOCK. ABEL KENWORTHY, Waterbury, Conn. Filed Sept. 26, 1919. Serial No. 326,628. 5 Claims. (Cl. 242—72.)



1. In a collapsible block, the combination with a body member, having sections as a part thereof and mounted upon a hollow shaft; shoes mounted between said sections, each having an exterior surface of the same diameter as that of said sections; a shaft within said first shaft; shipper means mounted on said first shaft; links connecting said shipper means with said shoes; and means for connecting said shipper means with said last mentioned shaft.

1,337,018. THREAD-GAGE. GEORGE B. LOCKEY and ALBERT F. LAWSON, Pittsburgh, Pa. Filed Feb. 14, 1918. Serial No. 217,216. 4 Claims. (Cl. 33—147.)

1. In a thread-gage, the combination with a suitable



base or support, of an indicating dial, an operating-arm projecting out therefrom, a stationary member having a semi-circular threaded gage portion, a movable member spring actuated toward the stationary member and having semi-circular threaded gage portion registering with said first named member, the arm on said indicating dial having abutting engagement with said movable member, and means for moving said movable member away from said stationary member.

1,337,019. METHOD OF SEPARATING ALKALI CYANID FROM ALKALI CARBONATE. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, New York, N. Y., a Corporation of New York. Filed July 25, 1917. Serial No. 182,642. 14 Claims. (Cl. 23—13.)

1. The method of extracting alkali-metal cyanid from products containing the same, which comprises extracting such product with a composite solvent comprising water and an organic solvent retarding the hydrolytic decomposition of the cyanid by the water and maintaining the temperature of the mass during extraction below the point at which substantial decomposition of the cyanid occurs.

1,337,020. AIR-FILTER. HERBERT P. MILKER, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed June 27, 1919. Serial No. 307,208. 1 Claim. (Cl. 183—73.)

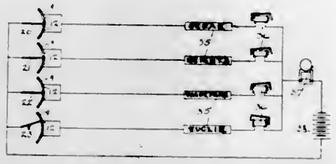
An air filter comprising a shell having an inlet and an outlet and provided with an interior recess, an annular

shoulder in said shell surrounding said recess, a foraminous tube within said shell and having its one end fitted within said recess, a tubular element of woven, cotton lamp wicking upon said foraminous tube, said element at its one end extending transversely to its axis to form an outwardly extending annular flange in engagement with



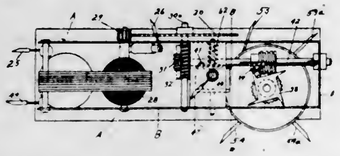
said annular shoulder and means adjustably connected with said shell whereby the other end of said foraminous tube is supported and whereby said tube is movable lengthwise of its axis to force said annular flange against said annular shoulder to seal the joint between said tube and the wall of said recess.

1,337,021. SIGNAL SYSTEM. CHARLES MUCKENFUSS, Cleveland, Ohio, assignor of one-half to Henry H. Metham, Cleveland, Ohio. Filed May 8, 1917. Serial No. 167,192. 4 Claims. (Cl. 246—248.)



1. In a contact box for use with trolley cars, the combination of a casing, a series of arms pivotally and adjustably mounted in said casing and extending outwardly thereof, contact members having corrugated surfaces adjustably mounted in said casing in contact with said arms, and springs attached to said casing and said arms to maintain the same in their normal central position.

1,337,022. CONTROLLING MECHANISM FOR ELECTRIC SWITCHES. CLARENCE D. OVERSMITH, Lima, Ohio. Filed Mar. 15, 1919. Serial No. 282,952. 6 Claims. (Cl. 200—38.)



1. In an operating mechanism for electric switches, the combination with suitable wiring carrying an electric current, of a clock-driven cam, a circuit closer adapted to be operated by the cam, an electric motor actuated by the electric current, an electric switch adapted to be thrown by the action of the motor, a cam mounted on the shaft of the switch adapted to engage and operate a reciprocating link slidably mounted adjacent the cam and having one end connected to a rotatable cam fitted with electric connections which, when the cam is partially rotated, close an electric circuit through an electromagnet, a striker bar actuated by the electromagnet the head of which is adjusted to strike the end of the circuit closer and dislodge the circuit closer from its contact with the clock-driven cam.

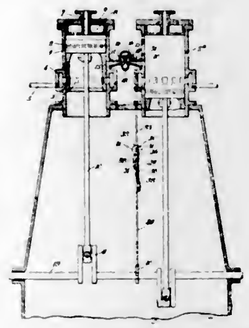
1,337,023. WELDED JOINT AND METHOD OF WELDING. LEWIS PRESTON PATTERSON, Kansas City, Kans. Filed Dec. 9, 1918. Serial No. 266,017. 9 Claims. (Cl. 113—112.)



1. A welded joint comprising a tie or reinforcing member spanning the fractured parts, said member having that side which faces the fractured parts formed as a substantially flat surface arranged at an incline to said fractured parts, and welding material substantially filling the space between said parts and member.

8. A method of welding fractured parts which consists first in positioning a tie or reinforcing member having a substantially flat face across said fractured parts, and then filling in the welding material between said parts and member while maintaining the latter slightly out of contact with said parts and with the said flat face of the member presented toward said parts in inclined relation thereto.

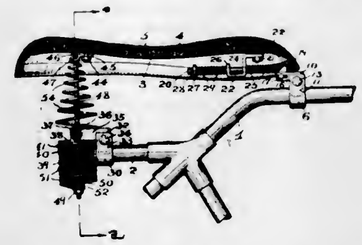
1,337,024. STEAM-ENGINE CONSTRUCTION. CLIFTON REEVES, Trenton, N. J. Filed Mar. 23, 1916. Serial No. 86,066. 3 Claims. (Cl. 121—136.)



1. In combination, a pair of cylinders having inlet and exhaust ports, and auxiliary exhaust ports located between the same, a two-way valve connected to said latter exhaust ports, and means controlled by the back pressure on the cylinders for actuating said valve to relieve alternately the compression in said cylinders.

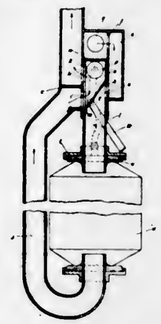
1,337,025. SADDLE ATTACHMENT FOR MOTORCYCLES AND THE LIKE. RUDOLPH SCHOLZ, Newark, N. J. Filed Dec. 19, 1918. Serial No. 267,435. 9 Claims. (Cl. 208—15.)

1. In combination with the frame of a motorcycle, and the like, a saddle bearing-member secured to and extending from the lower face of said saddle, a horizontally disposed guide-rod upon which said bearing-member is slidably mounted, means for mounting said guide-rod upon said frame, and coil-springs encircling said rod on



opposite sides of said bearing-member, said springs cooperating with the saddle to produce a substantially horizontal reciprocatory shock-absorbing motion of said saddle.

1,337,026. DEVICE FOR CHANGING REGENERATING-CARTRIDGES OF BREATHING APPARATUS. GEORG STOLLE, Kiel, Germany. Filed May 26, 1915. Serial No. 30,656. 4 Claims. (Cl. 128—140.)



1. In combination with a breathing apparatus, a regenerating cartridge, fixed conduits communicating with the breathing apparatus and leading to and from said cartridge, and a separate conduit member adjacent to said cartridge and connecting said fixed conduits in circuit with said cartridge, said member being movable in the direction of its longitudinal axis, whereby the course of the breathing air through said conduits and conduit member may be altered.

2. In combination with a breathing apparatus, a regenerating cartridge, a cartridge holder, a gas inlet leading the exhaled gas to the said cartridge holder, a gas outlet leading the regenerated gas to the breathing apparatus, a gas diverting member forming a part of the said holder and movable in the direction of its longitudinal axis, a gas passage in the gas diverting member for leading gas to the said gas inlet when it is inserted in the cartridge holder, a gas passage in the gas diverting member for leading gas immediately into the said gas outlet when the holder is opened to extract the cartridge and a lever for moving the diverting member toward the said cartridge.

3. In combination with a breathing apparatus, a regenerating cartridge, a cartridge holder, a gas inlet leading exhaled air to the said holder, a gas outlet leading regenerated air to the breathing apparatus, a gas diverting member forming a part of the said holder and movable in the direction of its longitudinal axis, a gas passage in the gas diverting member for leading gas to the said cartridge when it is inserted to the cartridge holder, a gas passage in the gas diverting member for leading gas immediately into the said gas outlet when the holder is opened to extract the cartridge and a toggle lever for moving the diverting member toward the said cartridge.

4. In combination with a breathing apparatus, a regenerating cartridge, a cartridge holder, a gas inlet leading exhaled air to the said holder, a gas outlet leading regenerated air to the breathing apparatus, a gas diverting member forming a part of the said holder and movable in the direction of its longitudinal axis, a gas passage in the gas diverting member for leading gas to the said cartridge when it is inserted in the cartridge holder, a gas passage in the gas diverting member for leading gas immediately into the said gas outlet when the holder is opened to extract the cartridge and a toggle lever for moving the diverting member toward the said cartridge, said toggle lever locking the cartridge in the holder when it is moved beyond its fully stretched position.

1,337,027. PROCESS OF PRODUCING SOFT DRINKS. ALEXANDER L. STRAUS, Baltimore, Md. Filed Nov. 14, 1919. Serial No. 338,082. 5 Claims. (Cl. 99—11.)

1. The steps in a process of controlling the taste of a substantially non-alcoholic beer, which consist in boiling out the alcohol from alcoholic beer that has undergone an alcoholic fermentation; adding to the residue a carbohydrate sweetening material, salt and hops; fermenting to an alcoholic content of less than one half of one per cent.; filtering the mixture thus produced; and finally carbonating the product; substantially as described.

2. The steps in a process of controlling the taste of a substantially non-alcoholic beer that has undergone an alcoholic fermentation; which consists in boiling out the alcohol from said alcoholic beer; adding to the residue water, a carbohydrate sweetening material, salt and hops; fermenting said beer to an alcoholic content of less than one half of one per cent.; fining and filtering the mixture thus produced; and finally carbonating the product; substantially as described.

3. The steps in a process of controlling the taste of a substantially non-alcoholic beer, which consists in boiling out the alcohol from alcoholic beer that has undergone an alcoholic fermentation; adding to the residue water, an agent to impart a bitter taste to the beer, a carbohydrate sweetening material, salt and hops; fermenting said beer to an alcoholic content not exceeding one half of one per cent.; fining, preliminarily carbonating, and filtering the mixture thus produced; and finally carbonating the product, substantially as described.

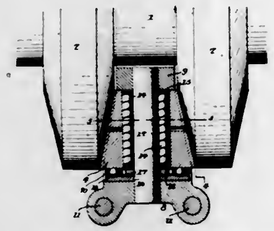
4. The steps in a process of controlling the taste of a substantially non-alcoholic beer, which consists in boiling out the alcohol from alcoholic beer that has undergone an alcoholic fermentation; adding to the residue water, concentrated hops, a foam producing material, a carbohydrate sweetening material, salt and hops; fermenting said beer to an alcoholic content less than one half of one per cent.; fining, carbonating, and filtering the mixture thus produced; carbonating again, filtering a second time, ad finally carbonating the product, substantially as described.

5. The steps in a process of controlling the taste of a substantially non-alcoholic beer, which consists in boiling out the alcohol from fermented alcoholic beer; adding to the residue sufficient citric acid to produce a pungent taste; water a carbohydrate sweeting material, salt and hops; fermenting said beer to an alcoholic content less than one half of one per cent.; filtering the mixture thus produced; and finally carbonating the product, substantially as described.

1,337,028. THRUST-BEARING. JOSEPH W. THROPP, Trenton, N. J. Filed Dec. 19, 1918. Serial No. 267,520. 8 Claims. (Cl. 64—38.)

6. The combination of a shaft having a series of collars thereon, each collar being tapered in cross section; a cage located in the space between each collar, each cage being made in two parts; means for clamping the two parts rigidly together; a series of radial spindles mounted in the cage and supported at each end; a tapered roller

mounted in each spindle, said rollers being so proportioned in relation to the space between the collars that they will only bear against one collar; a series of roller bearings mounted between each spindle and its conical roller; a bearing plate resting against the outer ring of the



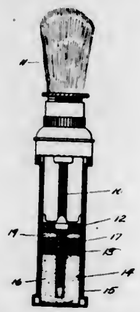
cage; a sleeve mounted between the plate and the ends of the roller bearing; a series of balls; a cage therefor mounted between the large end of each tapered roller and the bearing plate; and means for supporting the several cages.

1,337,029. MEANS FOR INDICATING LEVEL OF PLASTIC MATERIAL IN CONTAINERS. PAUL R. WEITZEL, Philadelphia, Pa. Filed Apr. 26, 1919. Serial No. 293,039. 2 Claims. (Cl. 116—118.)



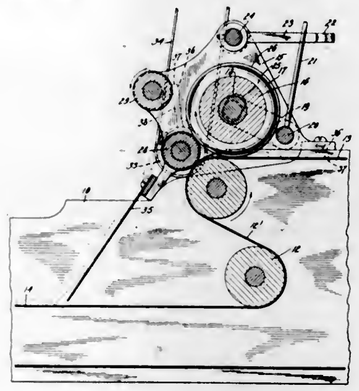
1. In an article of the character stated, the combination of a container, plastic material composed of layers of distinct characteristics contained therein of which one of said layers serves as a signal during expression to designate that the container requires refilling and means for expressing said material from the container.

1,337,030. MEANS FOR INDICATING LEVEL OF PLASTIC MATERIAL IN CONTAINERS. PAUL R. WEITZEL, Philadelphia, Pa. Filed Aug. 20, 1919. Serial No. 318,787. 4 Claims. (Cl. 116—118.)



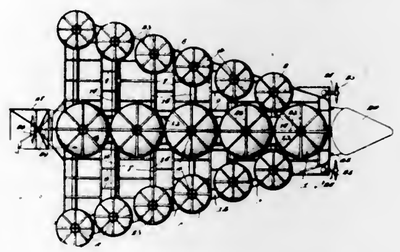
4. In an article of the character stated the combination of a receptacle, layers of plastic material contained within said receptacle of which the outer layer comprises main supply, the inner layer serves as an auxiliary to said main supply and the intermediate layer serves as a signal during expression to designate that the receptacle requires refilling, means for definitely separating the auxiliary and signal layers from the main layer to prevent intermingling during an expression period and means for expressing said plastic material from said receptacle.

1,337,031. DISK-SORTING MACHINE. THOMAS ALLATT, New York, N. Y., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 29, 1919. Serial No. 286,073. 14 Claims. (Cl. 193—24.)



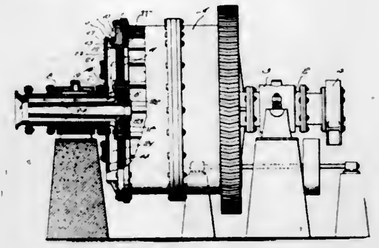
1. A machine for sorting disks, comprising a conveyer on which the disks travel on one of their flat faces, and means disposed above said conveyer for bodily lifting the disks from said conveyer and turning the same over.

1,337,032. MULTIPLE PROPELLED BALLOON. GIUSEPPE APPINEL, Elkville, Ill. Filed May 12, 1919. Serial No. 296,458. 2 Claims. (Cl. 244—3.)



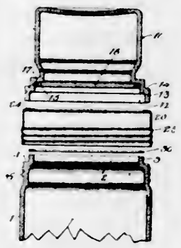
2. A propelled balloon, comprising a main frame and a multiplicity of balloon units, from which the main frame is suspended; the said main frame and group of balloon units being arranged in general wedge-shape formation, in combination with an upright steering vane, of wedge-shape, in horizontal section, having its rear and comparatively wide portion connected in hinged manner with the forward end of the main frame, an upright vane connected in hinged manner with the rear end of the main frame, a pilot house carried by the main frame, connections extending from the vanes into the pilot house, whereby the pilot is enabled to control the course of the balloon, propelling wheels disposed in the rear vane, propelling wheels at opposite sides of the forward vane, and motors carried in the main frame and connected with said wheels.

1,337,033. INCLOSED-SCREEN BALL-MILL. JOHN R. BALL, Durango, Colo. Filed Apr. 24, 1919. Serial No. 292,343. 2 Claims. (Cl. 83—9.)



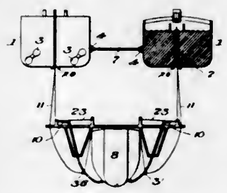
1. In an ore grinding mill, a grinding cylinder having a hollow trunnion joined directly to one of its end walls, reinforcing ribs on the outer side of said end wall radiating from the inner end of said trunnion, discharge screens between said ribs, plate means spaced outwardly from said end wall and free of permanent connection with said trunnion, said plate means being detachably secured at the outer edges of said ribs, and additional plate means extending across the spaces between the outer ends of said ribs, all of said plate means coöperating with said ribs to form a plurality of pockets at the outer side of said end wall, into which said screens discharge, said first named plate means being detachable without detaching said end wall to give access to said screens, the inner ends of the aforesaid pockets having openings for conducting the discharged ore into said hollow trunnion.

1,337,034. SAMPLING-JAR. CARL E. BAUERMEISTER, Terre Haute, Ind. Filed Oct. 13, 1916. Serial No. 125,505. 1 Claim. (Cl. 215—80.)



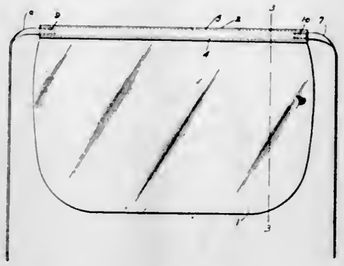
An opaque jar having a transparent hermetically sealed display cap functioning also to seal the top of said jar and provided with a member performing the function of compressing a gasket for sealing said jar to said cap.

1,337,035. SALVAGE-BOAT. JONATHAN BEGG, Oakland, Calif. Filed Aug. 9, 1917. Serial No. 185,380. 3 Claims. (Cl. 114—51.)
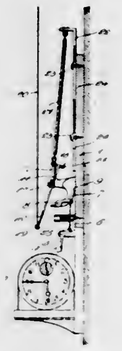


1. The combination with a beam, arms projecting downwardly therefrom, curved grapples pivoted centrally thereof to the lower ends of the arms, lifting-cables connected with each grapple on opposite sides of the pivotal point thereof, and a third cable connected to the grapples below the pivotal point for withdrawing said grapples horizontally.

1,337,036. EYE-SHIELD. FREDERIC BERGMANN, Lyon, France. Filed Mar. 27, 1919. Serial No. 285,698. 1 Claim. (Cl. 2—149.)



An eye shield comprising a flexible transparent substantially rectangular body, a pair of reinforcing strips of fabric arranged along one edge, a plurality of lines of stitching extending through said strips of fabric and said body for holding said strips in place, a tying strip extending from each end of said strips, and lines of stitching extending through said reinforcing strips and tying strips for holding the tying strips in place.

1,337,037. TIME-CONTROLLED MECHANISM. ROBERT H. BERKSTRESSER, York, Pa. Filed Jan. 9, 1918. Serial No. 211,005. 1 Claim. (Cl. 161—8.)



The combination with a support, of supporting brackets secured thereto in spaced relation and arranged at substantially a right angle with relation thereto, a rock shaft connected with the ends of the brackets and spaced from the support and arranged substantially parallel therewith, an operating member carried by the rock shaft and having short and long end portions projecting upon opposite sides of the rock shaft, the short end portion being adapted to swing between the rock shaft and the support, and the long end portion being arranged to swing entirely upon the outer side of the rock shaft, pull element or elements secured to the long end portion, a retractile coil spring secured to the short end portion and adapted to project between the rock shaft and the support when the operating member is in the cocked position, a longitudinally adjustable element carried by the support and connected with the free end of the spring for regulating its tension, with the spring disposed substantially parallel with the adjustable element when the

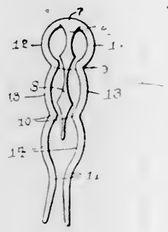
operating member is cocked, a crank rigidly secured to the rock shaft and extending in the direction of the short end portion and adapted to swing between the rock shaft and the support, a trigger lever connected with the support and adapted to engage with the free end of the crank and disposed at substantially a right angle thereto when the operating member is cocked, and time-controlled means to move the trigger lever.

1,337,038. HEATING DEVICE. WILLIAM ANDREW BREWSTER, Redlands, Calif. Filed Mar. 25, 1919. Serial No. 284,907. 12 Claims. (Cl. 158—46.)



1. A heating device, comprising a basic member with an opening at one side, a door hinged to the basic member in position to cover the opening when the door is closed, and a heating unit including a reservoir for fuel secured to the outer face of the door, a feed pipe leading from the reservoir and a burner carried by the feed pipe in spaced relation to the inner face of the door and movable into and out of the basic member through the opening therein on the closing and opening of the door.

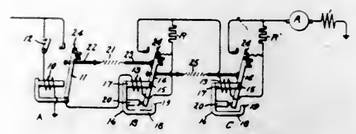
1,337,039. HAIRPIN. GEORGE H. BRUDER, Boston, Mass. Filed Apr. 21, 1919. Serial No. 291,471. 1 Claim. (Cl. 132—22.)



A hair pin comprising spaced prongs and an intervening tongue in spaced relation to the prongs, the prongs approaching the tongue at intervals and at the same points of the tongue and the tongue only at intervals between its points where most closely approached by the prongs, having greater flexibility than any portions of the prongs.

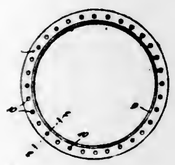
1,337,040. MOTOR-CONTROL SYSTEM. EUGENE R. CARICHOFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 6, 1918. Serial No. 232,726. 8 Claims. (Cl. 172—288.)

1. A motor control system comprising a plurality of normally open electromagnetic switches each having a winding energized by the motor current and arranged to hold it in open position when the winding is energized above a predetermined value and means whereby one



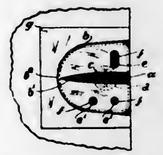
switch in closing directly applies a force to another switch which opposes the holding-out force of the winding to cause the switch to close when the current in the winding drops to a predetermined value.

1,337,041. BANJO. STEPHEN F. CETTA, Brooklyn, N. Y. Filed Dec. 8, 1919. Serial No. 343,236. 1 Claim. (Cl. 84—124.)



A banjo comprising a body, an annular metallic ring bent between its edges to form a hyperbolic curve, one edge thereof forming a vertical flange adapted to rest on the upper edge of the body and the other edge being rolled to form a bead, the portion between the bead and flange forming a channel and being provided with a plurality of spaced openings, a vibratory head stretched across the body and ring, means for retaining the bead in position on the body, and means for tightening the head.

1,337,042. COMBINED DOVETAIL AND BUFFER OR CUSHIONING DEVICE FOR THE DOORS OF MOTOR-CARS AND OTHER VEHICLES. ARTHUR S. CHESTON, Birmingham, England. Filed Jan. 29, 1920. Serial No. 354,856. 2 Claims. (Cl. 16—77.)



2. A combined dovetail and buffer device comprising a rubber cushion inclosed within a resilient casing consisting of a substantially wedge-shaped peripheral portion having an open front and a closed back, which latter is split longitudinally from the outer end to the peripheral portion at the forward end, said peripheral portion constituting the hinge about which the upper and lower halves of the casing can turn relatively to one another, the said back of the casing having holes through which attachment screws can be passed, those holes upon one side of the split being elongated.

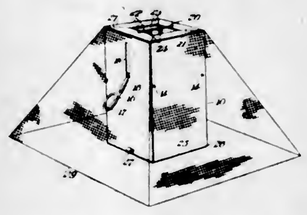
1,337,043. ADJUSTABLE BROILING-GRID. GUY B. CHILD, Chicago, Ill., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Nov. 11, 1919. Serial No. 337,343. 6 Claims. (Cl. 53—5.)

1. A broiling grid comprising a main frame, independent grid sections arranged end to end and independently vertically movably mounted within the main frame, and means for independently lifting and lowering the grid



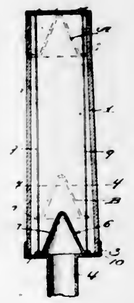
sections in respect to the main frame, whereby food may be simultaneously broiled upon the grid sections at different elevations in respect to a burner flame.

1,337,044. MOUSETRAP. DANIEL COOK, Lyman, Utah. Filed July 18, 1917, Serial No. 181,371. Renewed Dec. 13, 1919. Serial No. 344,709. 1 Claim. (Cl. 43—69.)



An animal trap embodying an elongated rectangular receptable provided at its upper end with an inwardly extending horizontally disposed flange to form a centrally arranged restricted entrance opening, a hinged closure for the lower end of the receptacle, a pivoted platform positioned transversely within said receptacle between the entrance opening and the hinged closure, said platform dividing the receptacle into upper and lower chambers, a counter-balanced arm carried by the platform and extending through a slot formed in the side of the receptacle and hooks pivotally mounted within the entrance opening and extending below the flange within the upper chamber and above the pivoted platform.

1,337,045. AIR-VALVE FOR STEAM-RADIATORS. WILLIAM J. COOK, Charlotte, N. C. Filed Sept. 11, 1919. Serial No. 323,103. 6 Claims. (Cl. 137—122.)



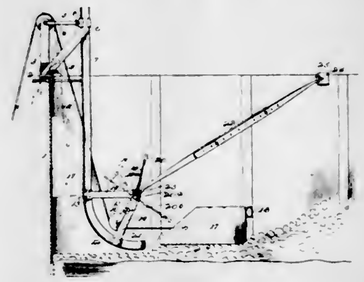
1. An air valve for steam radiators comprising a vertical casing having a tubular connection at its lower end and having air escape openings at its upper end, a valve element freely movable in said casing and a pair of guide rods along which said valve element may slide, said valve element being subject to air and steam pressure transmitted by said connection and in its uppermost position coöperating with said casing to cut off its communication with said openings.

1,337,046. IGNITION DEVICE. JAMES STEPHEN COYLE, St. Louis, Mo. Filed June 30, 1919. Serial No. 307,667. 1 Claim. (Cl. 123—169.)



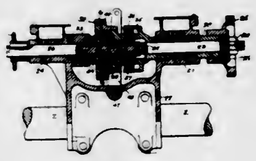
In a spark plug for motors a stationary electrode, a rod extending longitudinally of the body of the spark plug and having a bifurcated electrode on one of its ends, and a piston carried by said rod, and movable in a cylinder formed in the body of the spark plug by the piston of the cylinder in which it is used, to move the bifurcated electrode in the presence of the stationary electrode to remove deposits of hydrocarbon therefrom.

1,337,047. CAR-UNLOADER. ALMON W. CROTHAMEL, Ocean View, Va. Filed Aug. 8, 1919. Serial No. 316,254. 5 Claims. (Cl. 214—44.)



1. In an apparatus for unloading material from cars, a vertically adjustable guide adapted to be lowered into the car, a sheave normally lying adjacent said guide, a cable passing over said sheave, a scoop secured to said cable, and means for moving said sheave out of the path of movement of said scoop along said guide.

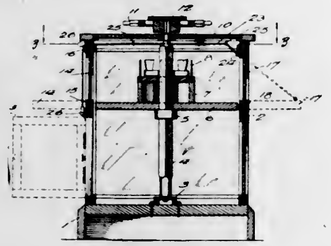
1,337,048. MECHANISM FOR OPERATING THE REELS OF MINE-LOCOMOTIVES. FRANK B. DEANS, Sharon Hill, and BENJAMIN K. KIRK, Philadelphia, Pa., assignors to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1917. Serial No. 205,572. 2 Claims. (Cl. 242—91.)



1. The combination in a mine locomotive, of a frame; an axle; a motor on the axle; a reel; a shaft carrying the reel and mounted on the frame; two shafts between the motor and the reel, one of said shafts being disposed internally of the other; positively operated clutch mecha-

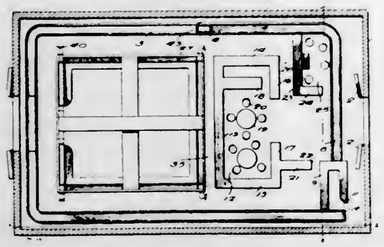
nism between the two shafts, one of said shafts being driven from the motor and the other driving the shaft on which the drum is mounted so that when the clutch members are thrown open the inner disposed shaft, connected to the reels is stopped.

1,337,049. SHOW-CASE. SHIKER M. DEBAKEY, Lake Charles, La. Filed Aug. 26, 1919. Serial No. 319,978. 4 Claims. (Cl. 211—21.)



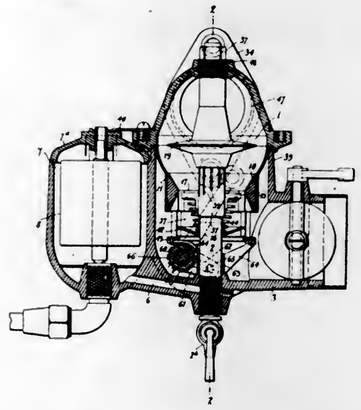
1. An improved show case having transparent portions and doors in the front and rear thereof, a movable carrier in said case adapted to contain articles viewable through the transparent portion and accessible through said doors, means accessible alike to both customer and clerk for moving said carrier, one of said doors being accessible to the clerk for replenishing articles sold from said carrier, the other of said doors being accessible to the customer for removing articles from the carrier and being openable by the clerk, substantially as described.

1,337,050. HOME STORE. SHIKER M. DEBAKEY, Lake Charles, La. Filed Sept. 6, 1919. Serial No. 322,155. 4 Claims. (Cl. 186—1.)



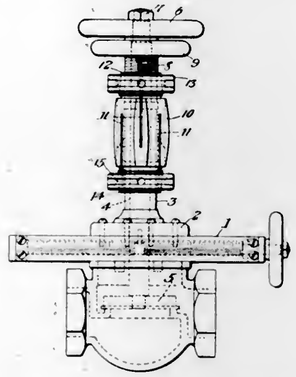
4. In a store, a track running about the walls of the store in substantially rectangular formation and having flanges at the sides thereof, the starting and end portions of the track being spaced apart and the starting portion being elevated and inclined, wheeled vehicles running on the track, means for confining the vehicles on the inclined portion, railing in the store adapted to guide purchasers to the lower end of the inclined starting portion of the track where they may release said vehicle holding means and assume the custody of one of the vehicles, a cabinet in the store having its sides arranged near the track for holding goods for the inspection and removal of customers, the goods adapted to be placed in the vehicles and the vehicles drawn along by the customers as they pass through the store, and a cashier's stand between the starting portion and the end of the track whereby the cashier may remove the goods from the vehicles and afterward shift the vehicle from the end of the track to the elevated starting portion, substantially as described.

1,337,051. CARBURETER. CHARLES DE LUKACSEVICS, New York, N. Y., assignor to Julius Winter, New York, N. Y. Filed Dec. 29, 1917. Serial No. 209,570. 8 Claims. (Cl. 261,41.)



1. In a carbureter, in combination, a casing having an air inlet, an upright nozzle located centrally within said casing and discharging above said air inlet, said nozzle having a plurality of radial discharge ducts, a tubular regulating valve surrounding said nozzle and mounted for up and down sliding movement, means in coöperation with said valve in its movements for controlling the admission of air, a fuel regulating sleeve surrounding said nozzle and having slots controlling the respective discharge ducts and of graduated length, connections between said regulating valve and said regulating sleeve whereby the latter participates in the movements of the former, a carbureting chamber above said nozzle, and a stationary valve element between said carbureting chamber and said nozzle with which the valve coöperates at its upper end, said valve element having a central recess into which said regulating sleeve projects.

1,337,052. FACING-TOOL FOR DRESSING VALVE-SEATS, &c. FRED A. DEXTER and BAYARD P. DEXTER, Orange, Mass. Filed June 26, 1919. Serial No. 306,965. 6 Claims. (Cl. 90—12.5.)

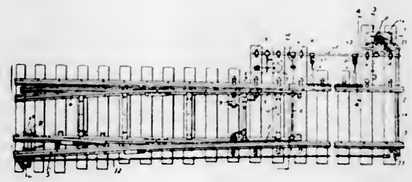


1. A machine for facing valve seats and the like, comprising a rotatable tool spindle, a bearing sleeve for the same, a feed sleeve on the spindle above the bearing sleeve, a resilient sleeve slidably mounted on the bearing sleeve and having threaded connection with the feed sleeve, and means carried by the resilient sleeve for clamping it to the bearing sleeve.

1,337,053. PROCESS OF MAKING CANVAS-WIRE CLOTH. ALFRED DREYLING, Jamesburg, N. J., and WILLIAM C. LOCKE, Stamford, Conn. Filed Sept. 27, 1919. Serial No. 326,970. 1 Claim. (Cl. 91—68.)

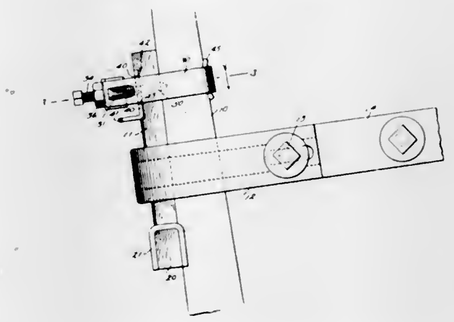
The process of manufacturing a reinforced waterproof cloth consisting of fabric and metallic strands, the latter being first treated with a thin film of paraffin, and then interwoven with the fabric strands to form a cloth, the cloth then treated with a solution of sugar of lead, diluted with water, and finally with a solution of alumn and water.

1,337,054. SAFETY DEVICE FOR POINT-SWITCHES. LOUIS DUNN, St. Paul, Minn., assignor to Edmund L. Dunn, St. Paul, Minn. Filed Sept. 26, 1919. Serial No. 326,671. 7 Claims. (Cl. 246—151.)



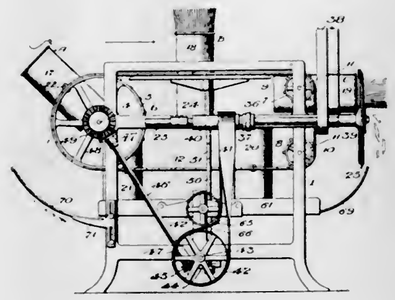
4. The combination, with the main line track rails, of the movable switch points, a switch lever operatively connected with said switch points, mechanism for automatically throwing the switch points to a neutral position when the train passes onto the siding, a reciprocating bar connected with said switch lever and provided with a tapered end, a plate having a slot therein to receive said tapered end, a guide whereon said bar is horizontally movable, said bar operating to raise said plate into the path of the truck wheels, the pressure of the wheels on said plate locking said bar on said guide and in the slot in said plate.

1,337,055. LUG-STRAP CONNECTION. LOUIS DURAND, Lawrence, Mass. Filed Jan. 6, 1920. Serial No. 349,741. 4 Claims. (Cl. 139—48.)



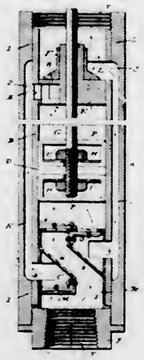
1. A lug strap connection for picker sticks, comprising a reinforcing member fitting against the outer face of a picker stick and provided at the lower end with sidewise extending lugs forming a saddle, fastening means for attaching the upper end of the said reinforcing member to the picker stick, and a lug strap passing around the said reinforcing member and limited in its downward movement by the said saddle.

1,337,056. COMBINED EVENER AND CUTTER. GEORGE W. DUVALL, NORMAN H. BEEBE, and HARRY E. SMITH, Davenport, Iowa, assignors to Modern Broom Machinery Company, Davenport, Iowa, a Corporation of Iowa. Filed Oct. 16, 1919. Serial No. 331,109. 8 Claims. (Cl. 15—40.)



1. The combination with a movable carrier, a plurality of containers arranged on said movable carrier adapted to receive a quantity of loose broom-corn, means for agitating said containers, means for severing the protruding ends of the loose broom-corn, means for reversing the position of the containers after severing the protruding ends of the broom-corn, and means for retaining and leveling the trimmed ends of the broom-corn within the containers while in the reversed position.

1,337,057. PUMP. CHARLES R. EDWARDS, Pekin, Ill. Filed Nov. 23, 1917. Serial No. 203,532. 2 Claims. (Cl. 103—76.)



1. A double-acting pump comprising an outer cylindrical shell, a cylindrical lining, means spacing the two apart and dividing the space therebetween into separate channels, the lining having openings at each end into the channels, a three-way valve consisting of a flanged tube inserted into said cylindrical lining and divided into three compartments, two of which communicate with two of the openings in the cylindrical shell, the other compartment forming an opening longitudinally of the cylindrical shell, valves for said compartments, a plunger rod guide having passages to the space both above and below it and also a lateral passage in communication with an opening into one of the channels, a valve for controlling the passage therebeneath, a plunger rod passing through said last-mentioned valve and plunger rod guide, and a plunger on said rod.

1,337,058. PURIFICATION OF ZINC SOLUTIONS. SAMUEL FIELD, London, England, assignor to The Metals Extraction Corporation Limited, London, England. Filed Sept. 26, 1919. Serial No. 326,577. 3 Claims. (Cl. 75—18.)

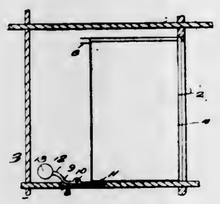
1. The hereindescribed process for the preparation of zinc sulfate solutions (free from copper) for electrolysis by purifying the solutions from nickel and cadmium, which consists in adding a small proportion of acid, heating the solution to a temperature of 80° to 100° C., adding a small proportion of copper in soluble form, adding zinc powder, and agitating the mixture whereby the nickel content of the solution is reduced to substantially 0.5 part per million or less.

1,337,059. REVOLVING CHAIR. OLIVE FISHER, Tipton, Ind., assignor of one-half to John A. Mayne, Kokomo, Ind. Filed Aug. 8, 1917. Serial No. 185,087. 1 Claim. (Cl. 155—95.)



A device of the character described comprising complemental disks having annular ways formed on their adjacent sides, a leg carried top member supporting the lower disk, anti-friction bearings arranged in said ways, a chair seat upon the upper disk, a back for the chair directly in line with the anti-frictional bearings, relatively small centrally located bearing elements formed integral with the adjacent sides of the disks having their adjacent portions engaged whereby to brace the central portions of said disks to prevent fracturing of the same incident to stress applied thereto, said antifriction bearings being disposed under the marginal portions of the seat directly in line with the legs, and connecting means passing through openings formed in said bearing elements.

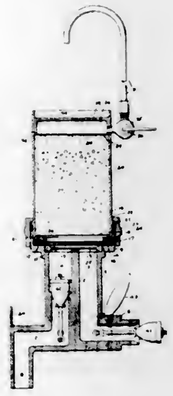
1,337,060. AUTOMATICALLY-CLOSING BULKHEAD-DOOR. TOM J. FOERSTER and LEWIS J. PFUND, Auburn, Mich. Filed May 8, 1918. Serial No. 233,216. 1 Claim. (Cl. 114—118.)



A bulkhead door of the character described, comprising a swinging closure for a bulkhead, spring means engaged with said closure for normally urging the same into closed position, a catch lever having a major straight portion with an upwardly curved end, the straight portion being movably countersected beneath the lower edge of said closure and pivotally supported, the other end of the lever being formed with a beveled latch extremity for tripping engagement with the closure on the opening thereof for maintaining the same normally in open position, and a float carried upon the curved end of said lever.

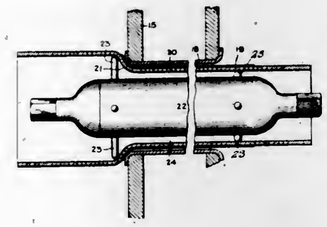
1,337,061. FAUCET-FILTER. JAMES M. FORREST, Jr., San Francisco, Calif. Filed Sept. 27, 1919. Serial No. 326,894. 1 Claim. (Cl. 210—7.)

In a filter, in combination with a chamber containing filtering material, means at the top and bottom for retaining filtering material in said chamber, a sheet of porous material extending across the entrance to said chamber, a conduit for the filtered water leading from the outlet end of said chamber, and inlet and discharge conduits for



unfiltered water secured to the inlet end of said chamber and having a single intervening partition, said porous material extending closely adjacent, and substantially at right angles, to the inner end of said partition, and a deflecting plate extending across the end of said partition.

1,337,062. OZONATOR. MILTON W. FRANKLIN, Bloomfield, N. J., assignor to General Electric Company, a Corporation of New York. Filed Aug. 3, 1916. Serial No. 112,943. 7 Claims. (Cl. 204—32.)



1. A receptacle in which a cooling medium may be received, a conducting tube passing through said receptacle and sealed in the walls thereof, and an ozone unit located in said tube and comprising a dielectric tube having a metal coating on its outer surface closely adhering to the tube and electrically connected to said conducting tube and a metal electrode located within said glass tube and separated therefrom to form a space within which an electrical discharge may take place.

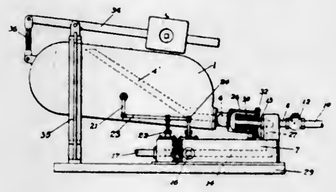
1,337,063. TORPEDO FOR SHOOTING OIL-WELLS. JOHN A. FRYER and WILLIAM W. WALLACE, Tulsa, Okla. Filed Mar. 5, 1919. Serial No. 280,730. 4 Claims. (Cl. 102—4.)

1. In a torpedo for oil and gas wells, a waterproof metal container adapted for use with a high explosive such as nitrates of toluene, a closure cap of different metal mounted on the upper end of the container, and an electrically operated firing device positioned at the end of the con-



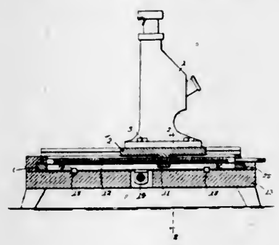
tainer for discharging the explosive by means of an electric spark, substantially as set forth.

1,337,064. TRAP. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Sept. 11, 1916. Serial No. 119,471. 22 Claims. (Cl. 137—103).



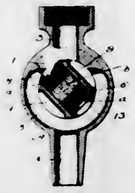
1. A trap comprising a vessel mounted on transverse pivots to be tilted by the weight of accumulated fluid therein, and a conduit communicating with said vessel and comprising a section of flexible expansible and collapsible corrugated wall, the axis of said pivots at all times intersecting the axis of said wall.

1,337,065. JACK-CENTERING DEVICE. JOSÉ ANCHIA GARCIA, New York, N. Y. Filed Aug. 13, 1919. Serial No. 317,310. 5 Claims. (Cl. 254—85.)



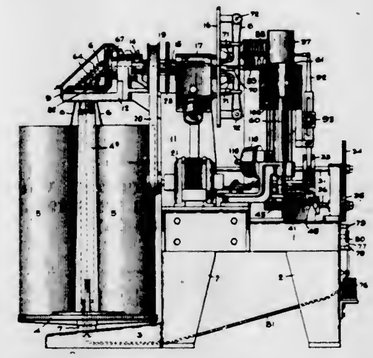
1. A jack centering device comprising a base or platform, and means for supporting a jack on said base or platform, said means being movable in two directions one movement being at right angles to the other whereby the jack may be moved to any point within the limitations of the device.

1,337,066. FILTER. ARTHUR C. GORTON and GEORGE R. CARR, Titusville, Pa. Filed Oct. 20, 1919. Serial No. 331,765. 5 Claims. (Cl. 210—6.)



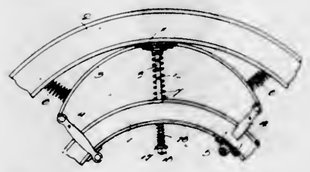
1. A faucet filter comprising a casing counterbored to form a slightly tapered chamber, a filter-valve fitted to this chamber, the filter provided with an inlet and outlet leading to and from the tapering chamber, said tapering chamber provided with a circumferential by-pass leading from the outlet part way to the inlet, the filter valve having a hole extending therethrough adapted to be filled with a filtering medium and having its outer wall recessed whereby to connect the inlet and by-pass when the valve is adjusted to throw the filter out of action.

1,337,067. MACHINE FOR MAKING BLANKS FOR GEARS, ROLLS, &c., FROM SPINNABLE TEXTILE FIBERS. EMILE J. GUAY, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 27, 1918. Serial No. 236,818. 29 Claims. (Cl. 19—10.)



27. In a machine of the character described, the combination of a former around which sliver is wound to form a hollow flat ribbon with the fibers extending generally crosswise thereof, a double core which extends lengthwise of said former and over which the sliver is also wound, a rotating drum to which the core is fastened at one end, said core serving to bind the ribbon edgewise on the drum, and a tension device for the core as it is fed through the machine.

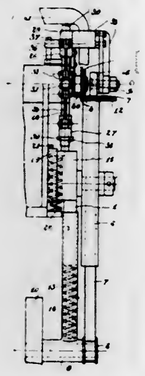
1,337,068. PLUNGER-ROD FOR SPRING-WHEELS. JACOB L. HARDEN, North Platte, Nebr. Filed Mar. 26, 1918. Serial No. 224,714. 2 Claims. (Cl. 152—32.)



1. In a spring wheel, inner and outer rims, cushioning means between said rims, plunger rods working through

the inner rim, each rod having an outer flexible link chain end, means connecting the chain end to the cushioning means, resilient means active between the rims to hold the chain end taut, adjustable means on the inner end of each rod, and resilient means working between said inner rim and said adjustable means.

1,337,069. MACHINE FOR JOINING OF PIECES OF LEATHER. LARS JÖRGEN HENRIKSEN, Kållinge, Sweden. Filed Sept. 16, 1919. Serial No. 324,250. 10 Claims. (Cl. 69—2.)



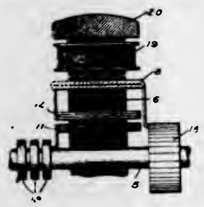
2. A machine comprising a milling cutter having a profile corresponding to a groove and a lip in the work piece, a rotating feeding wheel over which an endless belt is passed between which and the wheel pieces of leather are fed to the cutter, said belt passing also over guide rollers one of which is acted upon by a spring for the purpose of stretching the belt.

1,337,070. LOOM-PICKER-STICK CHECK. WALTER W. HESTLEY, Greensboro, N. C. Filed Oct. 6, 1919. Serial No. 328,708. 1 Claim. (Cl. 139—22.)



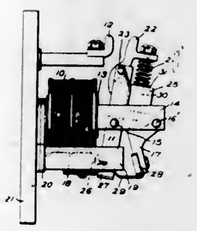
A picker stick check of the character described, comprising a swinging arm, a detachable pivot bolt adapted to be carried in and depending from the lay of a loom, an eccentric rotatably supported on the bolt, engaged in the arm and having a lower circular flange forming a turntable for the arm, and means for tensioning said arm.

1,337,071. ELECTRICITY TRANSFORMING AND CONVERTING APPARATUS. HENRY M. HOBART, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 21, 1916. Serial No. 121,504. 6 Claims. (Cl. 171—123.)



2. An electricity transforming and converting apparatus comprising a synchronous converter having a stationary magnetic field system, a commutated armature winding arranged to rotate within the influence of said field system, a step-down transformer having primary and secondary windings, the secondary winding of said transformer being electrically connected to said armature winding, a single magnetic core having slots in which said armature and transformer windings are carried, said core constituting the magnetic circuit of said transformer, and collector rings electrically connected to the primary winding of said transformer.

1,337,072. ELECTROMAGNETIC SWITCH. LEONARD E. HUTT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 18, 1916. Serial No. 98,420. 8 Claims. (Cl. 200—94.)



1. An electromagnetic switch comprising a magnetic structure and an operating winding for magnetizing the same, and setting up a magnetic flux through the magnetic structure which exerts a force tending to hold the switch open and another force tending to close the switch, a switch arm normally in open position and initially held by the holding-open force in said position upon the energization of said winding above a predetermined value, a member arranged to be moved by the operating winding and means whereby said movement causes a constant force to be applied to the switch arm tending to move it to closed position against said initial force, said member having a hole piece which holds the switch member in closed position when the current in the operating winding falls to said predetermined value and the closing force overcomes the holding-open force.

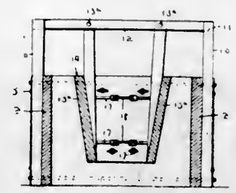
1,337,073. IRONING-BOARD FASTENER. WALTER C. JACKSON, Denver, Colo. Filed Sept. 11, 1919. Serial No. 323,098. 1 Claim. (Cl. 24—87.)



A clasp including in combination a pair of opposed sections, each of said sections being identical in construction and comprising a length of flexible material bent to provide a loop portion and a pair of opposed leg members, the loop portion overlying the leg members of the section of which the loop portion forms a part, each of said leg members having an eye formed at one end thereof, the eyes of the leg members of one section adapted to receive the opposite section, said leg members crossing each other at a point directly under the loop portion, and spurs formed at the ends of the leg members.

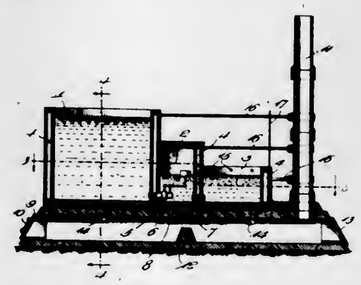
1,337,074. PLASTIC MOLD. ERNEST R. JESTER, Walton, N. Y. Filed Nov. 1, 1919. Serial No. 335,062. 3 Claims. (Cl. 25—130.)

1. A mold comprising a sectional outer form, means for clamping the sections together, bracing members carried by the longitudinal sections of the form, uprights engaged with the longitudinal form sections and confined beneath



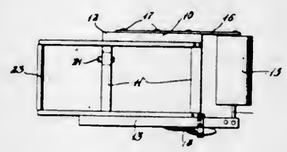
the braces, and a core removably suspended from the upper terminals of the uprights.

1,337,075. STOCK-WATERING TANK. FELIX G. JOHNSON, Clarinda, Iowa, assignor of one-half to Martha E. Johnson. Filed Feb. 24, 1919. Serial No. 278,884. 2 Claims. (Cl. 119—73.)



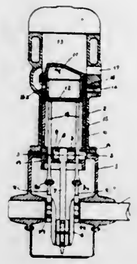
1. In a stock watering device, a cattle and horse tank, a float tank joined to one end of said cattle and horse tank, a hog watering trough joined to one end of said float tank, float controlled means in said float tank for supplying water from said cattle and horse tank to said hog trough, said tanks and said trough having hollow walls in communication with each other, an arch extending beneath both said tanks and under said trough and adapted to contain a fire, fuel and draft inlet means at one end of said arch, a stack leading from the other end of the arch at the exterior of said cattle and horse tank, and passages from said arch into said hollow walls for supplying heat to the latter.

1,337,076. SIDEWALK-PLOW. WHITMAN G. JONES, Great Falls, Mont. Filed Oct. 9, 1919. Serial No. 329,418. 3 Claims. (Cl. 97—28.)



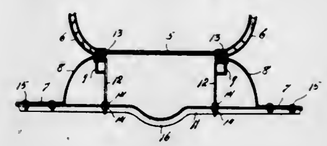
1. A side-walk plow comprising a frame, a roller rotatably supporting the frame and constituting pressure exerting means therefor, a plow share along one side of the frame and extending beneath the same and below the bearing portion of the cylinder, and means carried by the frame to engage along the edge of the side-walk for guiding the device.

1,337,077. INTERNAL-COMBUSTION ENGINE. EDWIN T. KERSHAW, Denver, Colo., assignor to The Hunter Gas Engine and Development Company, a Corporation of Colorado. Filed May 21, 1919. Serial No. 298,793. 7 Claims. (Cl. 123—74.)



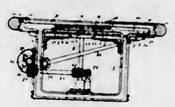
1. An internal combustion engine of the two-stroke cycle type, having a cylinder, a hollow piston reciprocable therein, an abutment head fitted in the piston, each of said parts having coördinate inlet ports to register at one position thereof, and means for adjusting the relative position of the head in the piston to change the degree of compression of the fuel previously to its being admitted to the combustion chamber of the engine.

1,337,078. RUNNING-BOARD AND FENDER SUPPORT FOR AUTOMOBILES. ARTHUR W. KIRCHNER, Denver, Colo., assignor of one-half to George J. Pille, Denver, Colo. Filed Sept. 18, 1916. Serial No. 120,646. 5 Claims. (Cl. 280—163.)



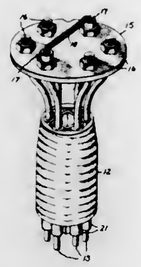
5. A brace for the running boards of automobiles comprising a tie rod adapted to extend transversely of the machine and have its ends engage the under sides of the running boards, vertically disposed rods mounted on said tie rod and having their upper ends hooked to engage the side bars of the chassis of the machine to suspend the tie rod therefrom.

1,337,079. STEEL-BALL-MAKING MACHINE. KANJIRO KOBAYASHI, Tokyo, Japan. Filed Nov. 29, 1918. Serial No. 264,702. 3 Claims. (Cl. 82—1.)



2. A steel ball making machine comprising a disk having a number of apertures therein and adapted to carry the rough steel balls, said apertures being so formed as to provide cutting edges adapted to sphere the balls, a rocking table superimposed upon said disk, a rocking table below said disk, said tables being operatively connected, and means to revolve said disk and rock said tables, substantially as described.

1,337,080. MULTICONDUCTING LEADS. WARD E. KRONE, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 16, 1919. Serial No. 304,618. 5 Claims. (Cl. 175—361.)



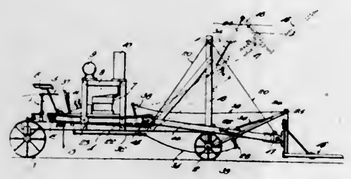
4. A lead structure comprising a hollow insulating cylinder, conductors laid along said cylinder, and a wrapping of insulating material laid tangentially across said conductors to bind them to said insulating cylinder.

1,337,081. CRANK-SHAFT. CLARENCE A. KUHN, Forks, N. Y. Filed May 31, 1918. Serial No. 237,589. 2 Claims. (Cl. 74—5.)



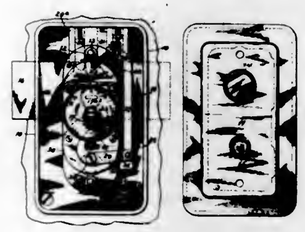
1. A crank shaft including a plurality of crank pins, webs connecting the pins and having their ends reduced to provide flanges and shoulders the surfaces of which are curved on lines concentric with the transverse axes of the webs, and ring members mounted upon said webs and engaging said shoulders, the rings having side recesses receiving said flanges and being fixed to the latter.

1,337,082. LOADING-MACHINE. HERBERT F. LESSMANN, Wayne, Nebr. Filed Apr. 14, 1919. Serial No. 289,775. 4 Claims. (Cl. 214—140.)



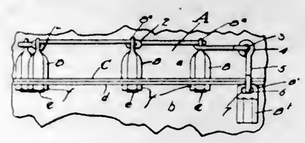
1. A loading machine comprising a frame, a pair of arms pivoted to said frame for vertical swinging, means on said frame for swinging said arms upwardly, a fork pivoted to the front ends of said arms, a latch bar extending rearwardly from an off-center part of said fork and having a shoulder, a stop on one of said bars with which said shoulder coacts to normally prevent pivotal movement of said fork, a lever fulcrumed to the aforesaid arm in position to bear against and release said latch bar, and a cable leading from said lever for operating the same to dump the load.

1,337,083. TIME-CONTROLLED DEAD-LOCKING DEVICE. ROLLIN C. LEWIS, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed July 29, 1919. Serial No. 314,100. 11 Claims. (Cl. 70—26.)



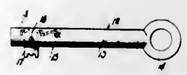
1. In a lock, the combination of a bolt, key mechanism for actuating same, time controlled mechanism for deadlocking the bolt against said key mechanism, and a master key mechanism for disengaging the time controlled deadlock from the bolt whereby the latter may then be actuated by its key mechanism.

1,337,084. DEVICE FOR HOLDING BOLTS OF TRANSMISSION-CASES. RUDOLF LIBENSCHEK, Pittsburgh, Pa., assignor of one-half to Slavko Lovrencic, Bellevue, Pa. Filed Sept. 23, 1919. Serial No. 325,733. 2 Claims. (Cl. 81—13.)



1. In a device of the character described, a frame corresponding approximately in outline to one side of a transmission case and provided with a plurality of spaced loops, and socket members depending from said loops and loosely connected to the same so as to be readily adjustable about the loops.

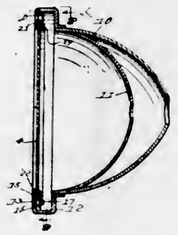
1,337,085. SAFETY-LOCK. JOSEPH B. MALYS, East Youngstown, Ohio. Filed Nov. 5, 1918. Serial No. 261,299. 1 Claim. (Cl. 70—9.)



In combination, a lock provided with a circular key hole, and a key including a cylindrical shank of a diameter to pass freely through said hole, said shank being provided at one end with a longitudinally extending recess, a bit pivoted within said recess and movable to occupy a position entirely therewithin with its end extending toward either end of said shank, and a leaf spring secured at one end within said recess engaging against one end of said bit for normally holding said bit in a position projecting at right angles from said shank, engagement of said bit with the lock upon insertion or removal of the shank within or from said hole resulting in swinging movement of said bit to its inactive position, said spring having its free end laterally bent and engageable with

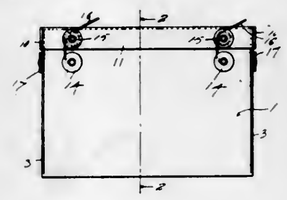
the forward edge of the bit for resiliently opposing swinging movement of the bit in one direction, and the spring having a bent portion adapted to engage the rear edge of the bit for opposing swinging of the bit in the other direction.

1,337,086. LENS-HOLDER. STANLEY G. MARSHALL, Hebbronville, Tex. Filed May 21, 1919. Serial No. 298,756. 1 Claim. (Cl. 240—41.)



A lamp casing having a lens seat, cam tongues projecting at intervals from said seat, a retainer ring consisting of inner and outer concentric elements and spaced riders connecting said elements for engagement respectively with said tongues, and a frictional cushioning sheath fitted upon the inner element of the retainer ring for contact with the surface of a seated lens.

1,337,087. HATBOX. ADLINE M. MATZ, Valley City, N. D. Filed July 6, 1917. Serial No. 178,938. 1 Claim. (Cl. 229—44.)



A hat box comprising a bottom, rigid side and rear walls extending upwardly from the bottom, a front wall hingedly secured to the front edge of the bottom, disk fastening members secured to the outer face of the front wall adjacent the upper corners thereof, disk fasteners secured to the outer face of the side walls adjacent the upper front corners thereof in horizontal alinement with said first mentioned fasteners, a cover having depending side and end flanges extending in overlapping relation to the upper edge portions of the walls of the box when the cover is placed thereon, the front flange of the cover being hingedly mounted for vertical swinging movement, fastening members secured to the hinged front flange of the cover adjacent the corners thereof in vertical alinement with the first mentioned fasteners and flexible elements secured to the disk fasteners of the cover and adapted to be passed around the fasteners of the front and side walls to hold the front wall and cover in closed position.

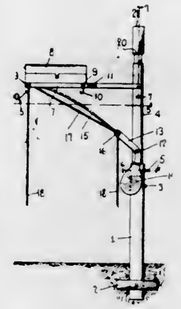
1,337,088. SCAFFOLD-BRACKET. GEORGE F. MOORE, Carman, Ill. Filed May 18, 1917. Serial No. 169,472. 1 Claim. (Cl. 20—84.)

A folding scaffold bracket including a horizontal supporting member comprising a pair of parallel angle bars, a transverse strip connecting the rear end portions of the angle bars and adapted for retaining the same in spaced relation, said transverse strip being provided with an upwardly extending anchoring hook, a vertically disposed supporting member having its upper end portion enlarged and pivoted between said angle bars and engaging said transverse strip for limiting the rearward movement of



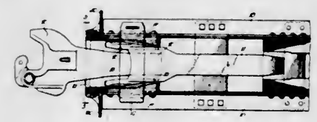
the vertical supporting member, and an angularly disposed bracing member pivoted to said horizontal member and detachably engaged with the vertical supporting member.

1,337,089. RURAL-MAIL-BOX INSTALLATION. CARL MURRAY, Curtis, Nebr. Filed July 28, 1919. Serial No. 313,664. 5 Claims. (Cl. 232—40.)



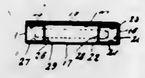
1. In a rural mail box installation, the combination of a standard comprising a lower tubular member, an upper member sheated and supported in the lower member, a weak pin engaging the lower and upper members to permit turning of the latter about its axis under shock or stress, an arm reaching laterally from the upper member, and a mail box carried by said arm.

1,337,090. DRAFT MECHANISM. JOHN O. NEIKIRK, Lombard, Ill. Filed Jan. 16, 1920. Serial No. 351,912. 2 Claims. (Cl. 213—42.)



2. In draft mechanism, the combination of a permanent part of a car structure forming a direct horizontal support for a coupler and providing a walled opening through which the coupler shank is applied, and a coupler the shank of which is plain and is applied longitudinally through said opening independently of any removable parts coöperating with said opening for restricting the size thereof, while at the same time maintaining the coupler shank at the standard height and the standard clearance at the sides.

1,337,091. PAPER RECEPTACLE. CHESTER W. NESKI, Chicago, Ill. Filed May 17, 1919. Serial No. 297,736. 1 Claim. (Cl. 229—27.)



A foldable blank box comprising top, bottom and side walls, one of the side walls being integral with the top and the bottom walls, and the other side wall being integral with the bottom wall, a flap integral with the top wall and foldable into the box, said flap being further foldable to form a side portion seating alongside the interior of one of the side walls, and having a portion seating beneath the top wall, and provided with bottom return bends at its ends, said return bends terminating in downward bends to the bottom wall to form partitions in the box, said partitions having lateral bends at the bottom seating on the bottom wall, and one of said lateral bends being joined to the aforesaid side portion of the flap, and the partitions having article supporting apertures.

1,337,092. EXTENSION-TABLE. PETER NYHOLM, Edgewood, Wash. Filed Aug. 23, 1919. Serial No. 319,398. 5 Claims. (Cl. 45—112.)

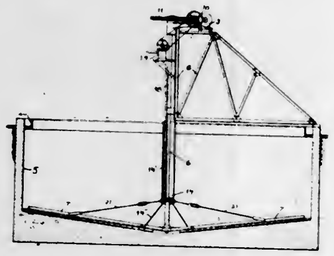


1. In an extension table the combination with the table top structure having a compartment for storing extra table leaves, of a link pivotally mounted at its lower end within said compartment and adapted to swing to both sides of its pivotal connection, a folding table leaf pivotally connected to the upper end of said link, and a stop carried by said leaf and adapted to engage said link to hold the leaf in the plane in the top of the table.

1,337,093. METHOD OF INTRODUCING MATERIALS INTO MOLTEN METAL. ALADAR PACZ, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,208. 8 Claims. (Cl. 75—1.)

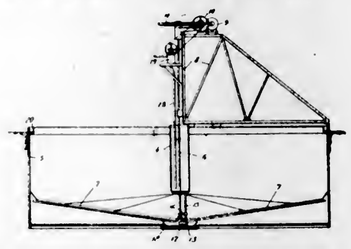
1. The method of alloying a metal with a plurality of other metals which differ substantially in specific gravity which consists in forming a briquet containing said other metals in a finely divided condition and dropping said briquet into a molten bath of the first-named metal.

1,337,094. SEDIMENTATION APPARATUS. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Oct. 5, 1918. Serial No. 256,969. 13 Claims. (Cl. 210—5.)



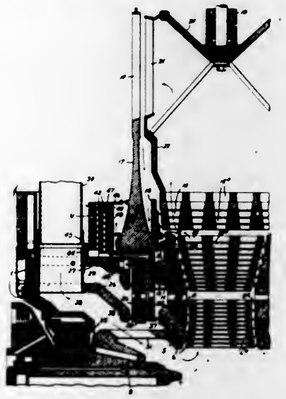
1. A sedimentation apparatus comprising a tank, a revolving sludge well open at the top and communicating with the bottom of said tank and disposed within the tank and adapted to be substantialy surrounded by the liquid material contained in the tank, and means for withdrawing sludge from said well so as to maintain a difference in hydrostatic head between the material outside said well and the sludge within the well and for thereby inducing a flow of sludge into said well through the bottom thereof.

1,337,095. SEDIMENTATION APPARATUS. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Oct. 5, 1918. Serial No. 256,970. 17 Claims. (Cl. 210—5.)



1. A sedimentation apparatus comprising a tank, a sludge well open at its top and closed at its bottom and disposed within said tank and adapted to be substantially surrounded by the liquid material contained in the tank, a conduit communicating with said well and depending therefrom into communication with the sludge collecting in said tank, and means for withdrawing sludge from said well so as to maintain a difference in hydrostatic head between the material outside said well and the sludge within the well and for thereby inducing a flow of sludge from the tank through said conduit into said well.

1,337,096. ELASTIC-FLUID TURBINE. CHESTER S. RICE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 8, 1919. Serial No. 322,424. 12 Claims. (Cl. 60—89.)



1. In an elastic fluid turbine having a rotor comprising a member having axially extending bucket rings thereon and a wheel carried by said member and having radially extending buckets thereon, means defining a path for conducting elastic fluid from adjacent the entrance side of said radially extending buckets inwardly along the inner surface of the wheel and thence through the bore thereof.

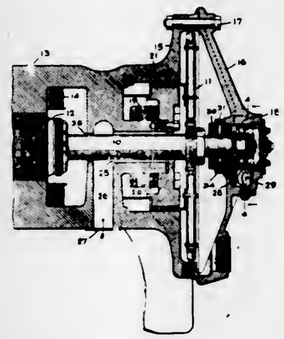
1,337,097. CLOCK-SPRING. MARTIN G. STAGEBERG, Thief River Falls, Minn. Filed Aug. 24, 1918. Serial No. 251,291. 1 Claim. (Cl. 29—84.)

A method of assembling clock-springs which comprises taking a spring, coiling it up with the inside or arbor end out, and the looped or stationary post end on the inside of the coil, then fastening the arbor end to the winding



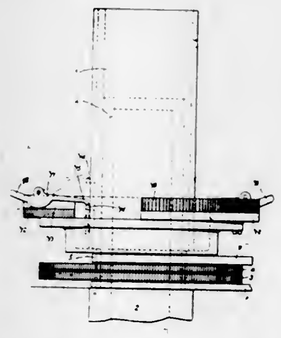
arbor, unwinding the coil, at the same time rewinding the coil about the arbor, and fastening the looped end to the stationary post.

1,337,098. TURBINE-DRIVEN SET. REGINALD G. STANDERWICK, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 20, 1918. Serial No. 250,724. 4 Claims. (Cl. 253—39.)



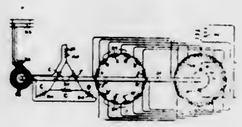
1. The combination with an elastic fluid turbine and apparatus associated therewith which generates heat, of means for utilizing the exhaust gases from the turbine for creating in the turbine casing a region of pressure lower than atmosphere, and means forming a passage through which air passes over said apparatus to the turbine casing.

1,337,099. CIRCULAR GLOVE-KNITTING MACHINE. GODFREY STIBBE, Leicester, England. Filed Jan. 10, 1917. Serial No. 141,594. 8 Claims. (Cl. 66—24.)



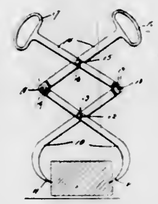
1. A circular knitting machine comprising a needle cylinder, needles therein, coöperating cams arranged to effect both circular and reciprocating knitting, means operating automatically for changing the relative positions of the needle cylinder and cams to bring different sections or groups of needles within the field of the cams for reciprocating knitting upon such sections and automatic means for selecting the needles required to compose each successive section upon which reciprocating knitting is to take place, some of the needles of one group being used, when necessary in an adjacent group for the purpose described.

1,337,100. ELECTRICITY TRANSFORMING AND CONVERTING APPARATUS. CHARLES W. STONE and HENRY M. HOBART, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Sept. 6, 1916. Serial No. 118,635. 16 Claims. (Cl. 171—123.)



1. An electricity transforming and converting apparatus comprising a synchronous converter having a magnetic field system and an armature winding adapted to rotate therein, and a phase-multiplying transformer having a primary winding connected to slip rings and a secondary winding connected to said armature winding, said armature and transformer windings and said slip rings being carried by the rotatable element of said apparatus.

1,337,101. TIE-HANDLING TONGS. HENRY R. STOVALL, Tulsa, Okla. Filed July 28, 1919. Serial No. 313,693. 1 Claim. (Cl. 57—9.)

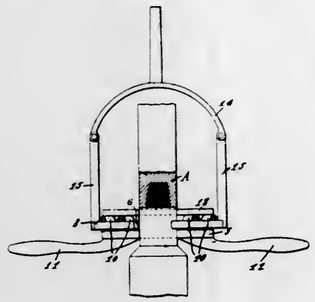


A tool of the class described comprising crossed and pivoted tong jaws, crossed and pivoted handle levers, said jaws and levers where crossed being provided with circular bearing portions having central apertures therethrough, bolts connecting said jaws and levers through said apertures, the upper extremities of the jaws and the lower extremities of the levers being formed with oppositely offset apertured portions having rounded ends, and bolts passed through said offset portions whereby said levers and jaws are disposed in vertical alinement beyond said offset portions, as and for the purposes specified.

1,337,102. WRENCH. WILLARD L. STOVER, Amarillo, Tex. Filed Apr. 23, 1919. Serial No. 292,101. 3 Claims. (Cl. 81—119.)

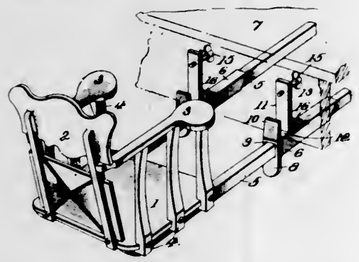
1. A wrench comprising a supported stationary ring provided with an opening at one side thereof, a rotatable jaw provided with a peripheral groove loosely accommodating the supporting ring and provided with a drill bit receiving slot adapted to register with the opening in the

ring, the ring being provided with recesses and antifriction elements comprising rollers having reduced ends



mounted in the recesses upon which the rotatable jaw rests, handles on the rotatable jaw and an arched supporting member for the stationary supporting ring.

1,337,103. INFANT-CHAIR. JOHN STRAITH, Richmond, Va. Filed July 3, 1919. Serial No. 308,419. 4 Claims. (Cl. 155—79.)



3. The combination of a child's seat having two forwardly and horizontally projecting parallel rod supports and two supporting members, each of said members having a clamp for attachment to a table or the like and constructed to receive and support the outer end of the said projecting seat supports.

1,337,104. GUN-CLEANER. FRANK P. SULLIVAN, Belvidere, Ill. Filed June 18, 1918. Serial No. 240,603. 1 Claim. (Cl. 42—91.)



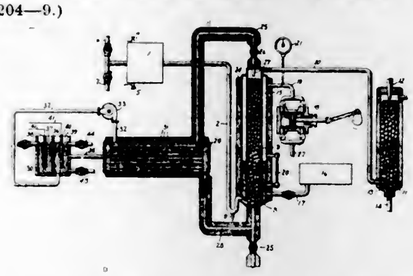
The herein described gun cleaner comprising a threaded rod, a knob swiveled on its upper end, a loop carried at its lower end to receive a cleaning cloth, a tubular plug whose bore loosely surrounds the rod and whose exterior is tapered downwardly to fit gun barrels of different sizes, a plate carried by the plug and having a threaded opening engaging said rod, and a strap connected at its ends with the upper end of the plug and having a looped center for the operator's thumb.

1,337,105. ELECTRIC SWITCH. WILLIAM B. TEMPLETON, Long Lake, Wash., assignor to General Electric Company, a Corporation of New York. Filed Dec. 12, 1916. Serial No. 136,425. 11 Claims. (Cl. 200—48.)



7. A locking and unlocking device for electric switches, comprising two opposed coöperating members for normally retaining the switch in locked position, and means pivotally carried by the free end of the switch and engageable intermediate of the coöperating members whereby the switch may be closed or opened by a single movement of the operating rod when engaged with the last mentioned means.

1,337,106. PROCESS OF MAKING NITRIC ACID. ELIHU THOMSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,631. 14 Claims. (Cl. 204—9.)



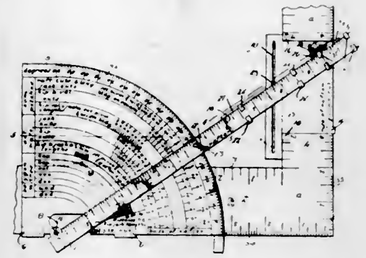
1. In a process of producing nitric acid, the step which consists in dissolving oxid of nitrogen in nitric acid at a temperature of about 40° below zero centigrade.

1,337,107. ROOF-FRAMING TOOL. LIN A. VAN NEST, La Junta, Colo. Filed Aug. 14, 1916. Serial No. 114,864. 12 Claims. (Cl. 33—90.)

1. An instrument of the character described comprising in combination with a graduated L-shaped square, a protractor slidably mounted upon a leg thereof and having a center coöperating with graduations on said leg, a slide mounted upon the other leg of the square and having a pointer coöperating with graduations on said other leg, and a graduated rule pivoted for movement about said center of and over the protractor, and movably mounted on said slide with its graduated edge in constant coöperative relation to the pointer of the same, the scaled surface of the protractor being disposed between the

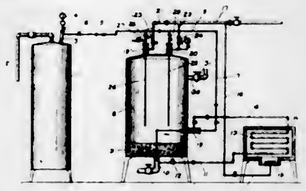
pivot of the rule thereof, and the other leg of the square so that the edge of the rule extending across the angle between the legs of the square swings over the protractor with the edge of the rule radial to the protractor center.

12. The combination, with a carpenter's square, of a



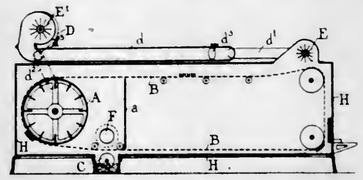
slide on one arm thereof and to which a rule is pivoted; a slide on the other arm thereof and carrying a follower pivoted to swing on the slide as the rule is adjusted; a carrier slidably mounted on the rule and operatively engaging the slide on which the follower is mounted; and a slidecut indicating bar pivoted on the folower and having its distal end movably connected to the carrier.

1,337,108. LIQUID-HYDROCARBON-VAPOR PRODUCER. JOHN J. WEITHAUS, North Vernon, Ind. Filed Feb. 9, 1917. Serial No. 147,639. 2 Claims. (Cl. 48—102.)



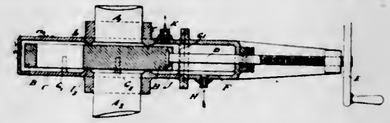
1. In combination with a vessel containing air under continuous pressure, a liquid hydrocarbon containing tank, a main air pipe leading from said source into said tank, a liquid hydrocarbon conduit pipe opening from the lower end of said tank, the open end of said air pipe projecting down into said liquid hydrocarbon conduit, air conveying pipes leading into the tank from the main air line and terminating above the liquid, cutoff valves in said pipes, an external vaporizer including a coil through which hydrocarbon is lead and a heater for said coil, a cooling and conveying pipe leading from the vaporizer back to the tank above the level of the liquid and means for drawing off the vapor from the upper end of the tank.

1,337,109. MATCH-MAKING MACHINE. WALTER WHEAL, Worcester, England, assignor to Heenan & Froude Limited, Manchester, England. Filed May 15, 1917. Serial No. 168,796. 1 Claim. (Cl. 144—50.)



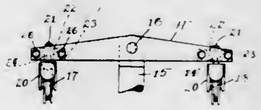
The combination with a match making machine involving a drum, traveling band, and a dipping trough containing a composition for application to match sticks, of a casing forming an air-tight inclosure for the match making mechanism, an air cooler mounted on the top of one extremity of the casing, a fan on the top of the opposite extremity of the casing for drawing air from the cooler and supplying it to the machine, ducts between the cooler and fan and connected to the interior of the machine adjacent to the drum, and a partition within the casing in rear of the drum and adjacent to the dipping trough, the casing having an outlet at one side close to the partition and whereby the cold currents of air will be forced into the machine over the traveling band and into the cylinder and also over the surface of the composition in the dipping trough and escape through the outlet adjacent to the trough.

1,337,110. WATER-COOLED VALVE FOR CLOSING THE FUNNELS OF SUBMARINE VESSELS. HAROLD E. YARROW, Glasgow, Scotland. Filed Oct. 30, 1917. Serial No. 199,310. 3 Claims. (Cl. 114—16.)



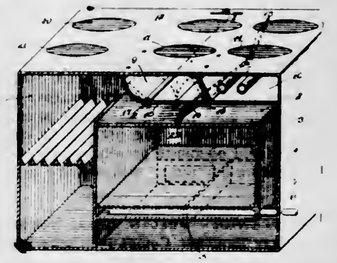
1. In combination with the funnel of a submarine vessel of a water cooled solid valve of rectangular cross section, said valve having an aperture adapted when the valve is in the open position to register with the aperture in the funnel, and a valve casing surrounding the funnel having annular seatings for the valve and an inlet and an outlet for sea water.

1,337,111. EQUALIZER FOR HOISTS. ALBERT S. ANDERSON, St. Paul, Minn., assignor to Grant Waldref, St. Paul, Minn. Filed July 1, 1918. Serial No. 242,806. 1 Claim. (Cl. 74—5.)



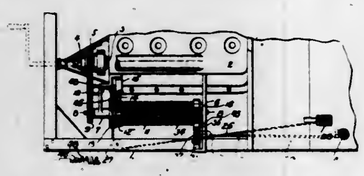
An equalizer, comprising, in combination, an arm having two sides, pivotally supported between its ends, blocks between the sides at the opposite ends of said arm, said blocks having bearing cups in their upper surfaces and bail members seated in and hanging from said cups.

1,337,112. CONVERTIBLE GAS-FLUE FOR COMBINATION GAS AND COAL RANGES. EDWARD C. BEERS, Rochester, N. Y., assignor to Phillips & Clark Stove Co., Inc., Geneva, N. Y., a Corporation of New York. Filed Mar. 10, 1919. Serial No. 281,782. 7 Claims. (Cl. 126—36.)



1. In a bi-fuel range, the combination of a draft flue, a gas burner box provided on top of said flue, and means for admitting the products of combustion passing through said draft flue into the bottom of said gas burner box.

1,337,113. STARTER FOR INTERNAL-COMBUSTION ENGINES. EDMUND M. BOND, Detroit, Mich. Filed Jan. 2, 1919. Serial No. 269,269. 1 Claim. (Cl. 185—41.)



The combination with an engine shaft, a spring motor shaft adapted for imparting movement to said engine shaft, and a spring adapted to have its retractile force impart movement to said motor shaft, of means adapted to hold and release said spring said means comprising a ratchet wheel, a break-up pawl engaging said ratchet wheel, means adapted for adjusting said break-up pawl relative to said ratchet wheel, and means adapted for actuating said pawl to release said ratchet wheel.

1,337,114. SAFETY-CATCH FOR PINS. GEORGE W. BAINTON, Providence, R. I., assignor of one-half to Roland & Whytock Company, Providence, R. I. Filed July 31, 1919. Serial No. 314,474. 2 Claims. (Cl. 24—157.)



2. In a pin safety catch, a horizontally extending keeper having an upwardly extending inclined slot to receive the pin, a substantially U shaped lock pivoted at one leg thereof to the keeper adjacent the slot and adapted to be swung within the keeper to lock the pin between the bottom wall of the slot and the bottom wall of the U of said lock, and the pivoted leg of said lock being slightly larger than the other leg as and for the purpose set forth.

1,337,115. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Nov. 27, 1917. Serial No. 204,251. 7 Claims. (Cl. 24—215.)



1. A stud and socket fastener comprising, in combination, a socket, and a stud having a head comprising a shell and opposed expansible resilient elements projecting through said shell, one of said elements presenting an abrupt shoulder to a coöperating portion of said socket, and the other of said elements presenting a rounded portion to a coöperating portion of said socket.

1,337,116. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Oct. 26, 1918. Serial No. 259,800. 12 Claims. (Cl. 24—215.)

2. A stud and socket fastener comprising, in combination, a socket having an aperture therein, and a stud having a head and a neck, one side of said neck providing an abrupt shoulder for engagement with the socket, said head having a slot therein and a resilient jaw element extending through said slot for engagement with the opposite side of the aperture in the socket from said abrupt shoulder.

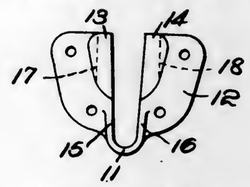


1,337,117. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 31, 1919. Serial No. 274,310. 10 Claims. (Cl. 24—214.)



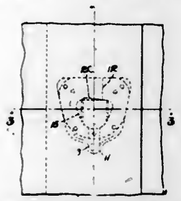
1. A separable fastener comprising, in combination, a stud and socket, one of which has a body portion in plan split substantially its whole length and provided with an upturned spring portion at one end thereof, said spring portion being of a width substantially greater than its thickness and integral with said body portion.

1,337,118. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 31, 1919. Serial No. 274,311. 2 Claims. (Cl. 24—214.)



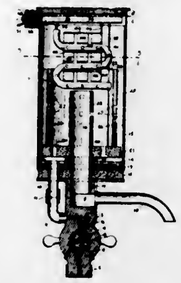
1. A separable fastener comprising, in combination, a stud and socket, one of which in plan has a body part split substantially its whole length and provided with an upturned spring portion at one end thereof, said spring portion being provided with upturned extensions paralleling the sides of the split, said extensions reinforcing the connection between the spring portion and said body part.

1,337,119. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 31, 1919. Serial No. 274,312. 10 Claims. (Cl. 24—217.)



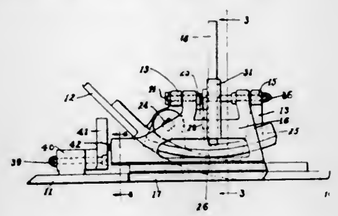
1. A separable fastener comprising, in combination, a stud and a socket therefor providing an expansible stud-receiving aperture, said socket including a plate split substantially throughout its entire length and the two halves thereof connected by an upturned spring portion at one end.

1,337,120. ELECTRIC WATER-HEATER. WILLIAM F. CUTLER, Oakland, Calif., assignor of one-half to Captain Paul Verdier, San Francisco, Calif. Filed May 5, 1919. Serial No. 294,896. 3 Claims. (Cl. 219—38.)



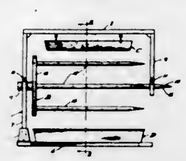
1. In an electric water heater, the combination of a casing, means for supplying water thereinto, an outlet tube within the casing, inner and outer perforated tubes coaxial with the outlet tube, and constituting electrodes extending to a higher level than the outlet tube, and insulating means for spacing one electrode from the other but permitting water to flow therebetween.

1,337,121. OVERHEAD SWITCH. CHARLES H. DESAUTELS, Springfield, Mass. Filed Jan. 28, 1920. Serial No. 354,603. 14 Claims. (Cl. 104—101.)



1. A switch adapted to connect a main line track with either a continuation thereof or a branch track, comprising a main switch, a branch switch, and operating means therefor constructed and arranged to cause the main switch to block the track during the entire movement of the branch switch into operative position.

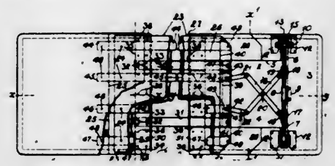
1,337,122. ROASTING AND BOILING DEVICE. JOHN H. DOAK, Los Angeles, Calif. Filed July 7, 1919. Serial No. 309,134. 2 Claims. (Cl. 53—5.)



1. In a device of the class described, the combination of a support, a rotary spit removably journaled thereon, comprising a hollow shaft forming a skewer, and skewers parallel thereto and revoluble with said shaft, said skewers being open for the circulation of the hot cooking fluids and pointed at the ends to penetrate articles to be cooked.

1,337,123. [WITHDRAWN.]

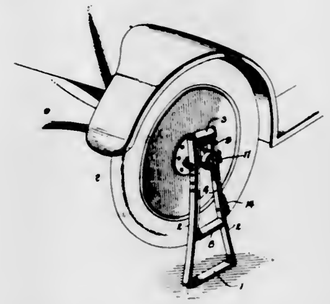
1,337,124. LOOSE-LEAF BINDER. ROBERT LYGERTWOOD ESSON, Johannesburg, Transvaal, South Africa. Filed Sept. 7, 1918. Serial No. 253,095. 12 Claims. (Cl. 129—41.)



1. In loose-leaf binders, the combination of front and back covers and an adjustable back with means for expanding and contracting said adjustable back, comprising a rod or spindle having right and left-hand screw threads, nuts engaging with said threads and a system of levers connecting said nuts with said back.

8. In loose-leaf binders, the combination of front and back covers, an adjustable back and a spring medium combined with the back which operates to hold up the inner ends of the covers and so raise the sheets along the binding margin.

1,337,125. AUTOMOBILE-JACK. EDWARD L. FLUM, Highland Park, Mich., and JOHN A. MASCHINO, Seymour, Ind. Filed Mar. 5, 1918. Serial No. 220,428. 1 Claim. (Cl. 254—131.)

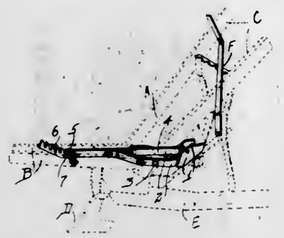


An automobile jack comprising a substantially U-shaped supporting member made of a single piece of material bent to provide a wide base, a handle mounted in the upper end of said supporting member and preventing collapse of the side walls thereof, a yoke-shaped lever member made of a single piece of metal and having its side walls pivotally mounted in said supporting member and adapted to swing therein, a roller handle on the inner end of said lever member, a U-shaped suspension member pivotally mounted in the outer end of said lever member and adapted to swing therein so that all of said members may be placed in a common plane, said U-shaped suspension member having its pivoted end open so that said lever member may be manipulated to cause said suspension member to carry a wheel hub into said supporting member and under the handle thereof, and means carried by said supporting member and adapted to engage said lever member to hold said lever member swung into said supporting member.

1,337,126. AGRICULTURAL IMPLEMENT. EDWARD FOWLER and JOHN V. LEWIS, St. Elmo, Tenn. Filed Sept. 19, 1918. Serial No. 254,732. 1 Claim. (Cl. 97—14.)

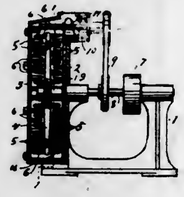
In a cultivator, a plurality of cultivating blades, a pair of skids mounted on the cultivator for controlling

the cutting depth of said blades, a pair of levers on which the skids are mounted, an actuating lever connected to said pair of levers for moving the skids into and out of



skidding relation with the soil, and a toothed rack on one end of the actuating lever, adapted to engage a bar on the cultivator for selectively maintaining the skids in a predetermined position.

1,337,127. MACHINE FOR SCOURING CEREALS. GUSTAV E. FRIEDRICH, Grand Rapids, Mich. Filed Jan. 27, 1919. Serial No. 273,435. 1 Claim. (Cl. 83—30.)



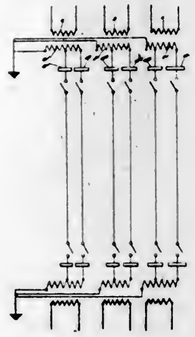
In a machine for scouring cereals, a receiving cylinder having laterally disposed studs extending inwardly from each side of the cylinder, a shaft concentrically mounted in the cylinder, arms mounted upon said shaft within the cylinder, studs extending at right angles from each side of the arms and arranged to pass between the rows of studs on the sides of the cylinder, a hopper and a conveyer for feeding cereals into the cylinder, a discharge spout upon the periphery of the cylinder opposite from the inflow side of the cylinder and near the horizontal center line of the cylinder, a gate pivotally mounted in said spout, an arm connected with the gate, and a weight mounted upon the arm and arranged to govern the outflow of the scoured cereals by increasing or diminishing the pressure of the gate against the cereal by the position of the weight on the arm.

1,337,128. METAL FURNITURE CONSTRUCTED FROM LOCK-SEAM TUBING. PATRICK H. FRIEL, Kenosha, Wis., assignor to Alfred Terrell, Kenosha, Wis. Continuation of application Serial No. 69,284, filed Dec. 29, 1915. This application filed Apr. 12, 1917. Serial No. 161,474. 1 Claim. (Cl. 78—54.)



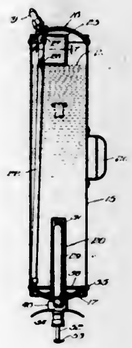
In an article of furniture, or the like, incorporating lock-seam tubing, a joint or union between parts thereof, comprising a member applied to a length of said tubing and overlying the lock-seam thereof, and means structurally uniting said member to said tubing and serving also to intersect the lock-seam and lock the interfolds of the latter positively against relative sliding movement.

1,337,129. DISTRIBUTION OF ELECTRICAL ENERGY. CHARLES GROVER, Gravesend, England, assignor to W. T. Henley's Telegraph Works Company Limited, London, England. Filed Oct. 24, 1919. Serial No. 333,086. 4 Claims. (Cl. 175—294.)



1. In a system for the transmission of electrical energy, a cable, a plurality of conductors through which electrical power is transmitted and which are arranged concentrically, the innermost of which conductors operates at the highest voltage and the outer conductor or conductors at relatively lower voltages, these voltages decreasing in the order of the distance of the respective conductors from the innermost, substantially as and for the purpose described.

1,337,130. FIRE-EXTINGUISHER AND THE LIKE. GEORGE B. HAINES, Chicago, Ill. Filed Aug. 27, 1919. Serial No. 320,086. 4 Claims. (Cl. 169—32.)



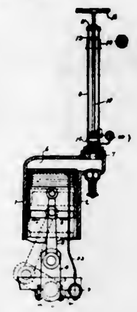
1. In a fire extinguisher, the combination of a cylindrical tank of uniform diameter, heads closing the upper and lower ends of the same, a discharge nozzle in conjunction with the upper head, an ejector tube extending from said nozzle downwardly through the interior of the tank to a point adjacent to the lower head, the cylindrical tank being normally filled with liquid up to a level somewhat below the upper head, and an expansion tank in conjunction with the upper portion of the ejector tube, said expansion tank communicating with the ejector tube to receive liquid therefrom and deliver liquid thereto, and being located within the upper portion of the cylindrical tank and above the normal liquid level aforesaid, whereby an expansion tank of sufficient capacity to accomodate the maximum probable expansion of liquid may be placed within the cylindrical tank without increase of size or proportions thereof, substantially as described.

1,337,131. GARMENT-SUPPORTER. GEORGE HAKE, St. Louis, Mo. Filed June 9, 1919. Serial No. 302,873. 3 Claims. (Cl. 24—245.)



3. A garment supporter comprising a button having a head and a neck, and a garment receiving loop comprising side members widely separated from each other to receive the head of the button with a portion of the garment, said side members having lower portions separated from each other to closely fit the neck of the button, and said side members having diverging lower ends extending away from the neck of the button, an elongated bottom member connecting said diverging lower ends to form a spreader for portions of the garment at opposite sides of said neck, said spreader being separated from said diverging lower ends to provide open garment receiving recesses at opposite sides of said neck and said recesses being adapted to communicate with the space between said side members so as to receive portions of the garment forced therethrough, said open recesses being narrower than the neck of the button so as to prevent said neck from entering the open recesses, the bottom face of said neck being adjacent to the middle portion only of said spreader and opposite sides of said neck being adjacent to said side members at points above said open recesses so as to securely hold the garment at points above the recesses, leaving portions of the garment free to spread away from said neck and into the open recesses between said spreader and said diverging lower ends, and the head of said button being in front of said side members and spreader.

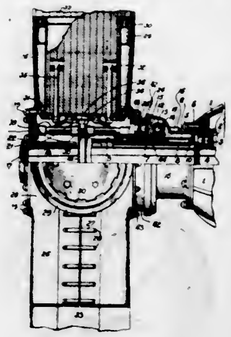
1,337,132. TESTING DEVICE. FREDERICK E. HARPST, Houston, Tex. Filed Nov. 29, 1918. Serial No. 264,615. 2 Claims. (Cl. 230—27.)



1. A device of the character described, including a barrel, one end of which is formed into a stuffing box, and the other end of which is formed into a nipple, having a fluid passageway therethrough, a plunger in said barrel, a plunger rod fitted through said stuffing box, to which said plunger is secured, a valve controlling said passageway, a resilient seat, normally holding the valve closed, and means carried by the nipple and arranged to be manipulated to hold said valve open.

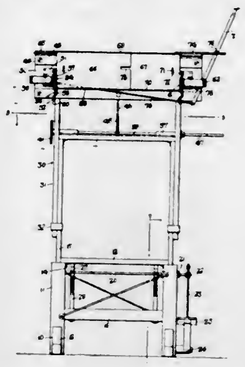
1,337,133. VARIABLE-PITCH PROPELLER. RAYMOND M. HOWARD, Detroit, Mich. Filed Apr. 19, 1919. Serial No. 291,252. 3 Claims. (Cl. 170—163.)

2. The combination of a propeller shaft, a hollow hub mounted thereon and provided with sockets, blades solely supported by said hub and having the inner ends thereof journaled in said hub sockets and provided with trunnions, longitudinal rods in said hub, guides on said rods engaging the trunnions of said blades and adapted to partially rotate said blades, shoes carried by said guides, and



reciprocable means common to said guides and surrounding said shaft to receive said shoes and adapted to simultaneously adjust said blades.

1,337,134. GRAIN-BAG HOLDER. WILLIAM JAHNS, Marathon, Wis. Filed July 6, 1918. Serial No. 243,543. 3 Claims. (Cl. 83—26.)



1. In a grain sack holder, a base, a sectional frame thereon, adjusting means between the sections of the frame, agitating means between the base and frame, longitudinally adjustable clamps carried by said frame, a hinged collapsible apron on the frame between the clamps, and connecting means between the sections of said apron and the respective clamps.

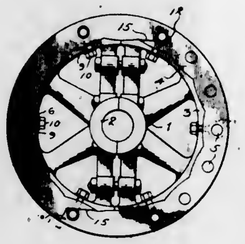
1,337,135. PULLEY AND LIKE ELEMENT. FRANK H. JOHNSTON and JAMES C. CHRISTENSEN, Indianapolis, Ind. Filed Oct. 14, 1918. Serial No. 258,032. 8 Claims. (Cl. 64—17.)



1. In a machine element, the combination with a main body of a hub, opposing flanges carried by the hub inter-

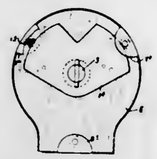
mediate which the main body is clamped, means for drawing said flanges one toward the other, and a plurality of cup shaped driving bosses on the inner or adjacent faces of the flanges adapted to be embedded in the material of the main body.

1,337,136. PULLEY AND LIKE ELEMENT. FRANK H. JOHNSTON and JAMES C. CHRISTENSEN, Indianapolis, Ind. Filed Oct. 14, 1918. Serial No. 258,033. 12 Claims. (Cl. 64—18.)



2. In a machine element of the character described, including a main body having a rim, a facing annulus encircling the rim, and a series of transverse pins embedded in said annulus, characterized by detachable interconnections between the said transverse pins and the rim of the main body.

1,337,137. SWITCH FACE-PLATE AND LOCK. HENRY KAPLAN, San Francisco, Calif. Filed Dec. 14, 1916. Serial No. 136,884. 8 Claims. (Cl. 70—14.)



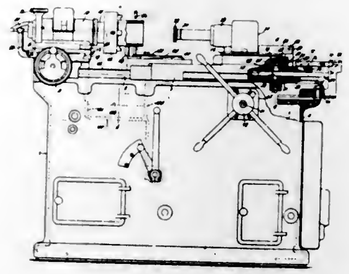
2. The combination of a base, a cover plate therefor, a stud projecting through the cover plate, a lock carried by the cover plate to hold the stud in a given position, screws for holding the cover plate on the base, and means operated by the stud for engaging the screws and preventing them from being rotated and removed when the stud is in a certain position.

1,337,138. STEERING REACH-ROD. RICHARD A. KAPS, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 5, 1919. Serial No. 308,848. 12 Claims. (Cl. 74—17.)



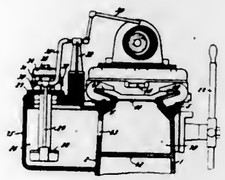
1. A steering rod connection consisting of a link section of tubing of a small diameter, a hub section of a tubing of larger diameter than the link section, having one end thereof reduced to an internal diameter of approximately the external diameter of the link section engaging and swiveled upon an end of said link section and providing an internal annular shoulder against which the inserted end of the link section is expanded to hold the parts together to prevent longitudinal displacement in one direction.

1,337,139. GRINDING-MACHINE. GEORGE C. KIMMEL, Cincinnati, Ohio, assignor to The Cincinnati Grinder Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 15, 1918. Serial No. 228,738. 17 Claims. (Cl. 51—4.)



1. In a machine of the class described comprising a bed and a reciprocating tool carriage in combination therewith, an oscillating tool-holder journaled on the carriage, means on the bed, carriage and tool-holder coördinately operated by the carriage travel, to aline the tool in work engaging position during the forward carriage feed and to swing the tool to inoperative position during the retractive carriage travel, and means for locking and releasing the tool-holder.

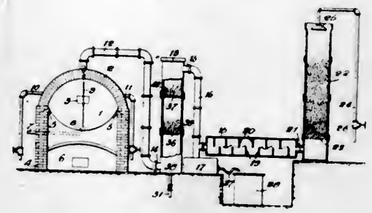
1,337,140. GRINDING-MACHINE. GEORGE C. KIMMEL, Cincinnati, Ohio, assignor to The Cincinnati Grinder Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 9, 1918. Serial No. 261,790. 4 Claims. (Cl. 51—4.)



2. In a machine of the class described, a frame, having walls providing a pair of parallel rails and a reservoir between the rails and below the heads of the rails, a strainer plate connecting with said rails covering said reservoir, oppositely inclined guards covering the rail heads respectively and providing a drainage to the reservoir, a carriage straddling said rails, having supporting members overhanging said guards, bearing, and translatable upon said rails, a second reservoir communicating with said first reservoir at a point above the base thereof, and a pump and pipe connection for conveying the liquid from said second reservoir to a point of utilization above said guards.

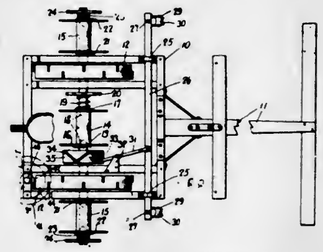
1,337,141. PROCESS OF PRODUCING HYDROCHLORIC ACID UTILIZING SLUDGE ACID. HENRY M. LASHER, Kansas City, Kans., assignor to The Kansas City Refining Company, Kansas City, Kans. Filed Feb. 12, 1919. Serial No. 276,611. 1 Claim. (Cl. 23—1.)

The process of producing hydrochloric acid solution, which consists in producing hydrochloric acid gas, exposing it after it leaves the source to primary absorption by a stream of water into which it is actually forced by baffling its flow, the stream of water flowing in a direction opposite to that of the gas and the gas and liquid attaining their forward movements in opposite periodic waves, then carrying what is left of the acid gas through a fresh



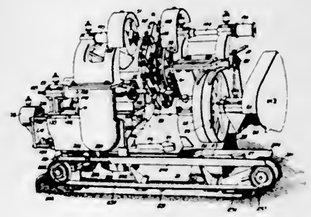
quantity of water, said water thus partly acidulated being then in its turn introduced into baffled contact with successively arriving portions of fresh gas.

1,337,142. WIRE STRETCHER AND WINDER. AUGUST C. LEMKE and LEWIS L. ALMETER, Wabasha, Minn. Filed July 11, 1919. Serial No. 310,024. 7 Claims. (Cl. 242—91.)



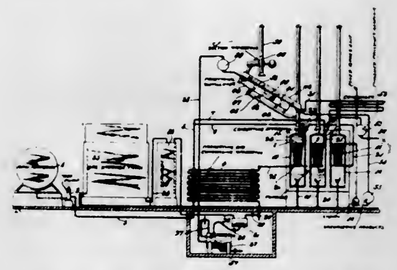
1. A machine of the class described comprising a frame, an axle mounted in bearings in said frame, traction wheels fast on said axle, winding reels loosely mounted upon the axle, means for securing the reels and axle against relative movement and automatically operated means for distributing the wound material evenly over the reels.

1,337,143. TENONING AND EQUALIZING MACHINE. WILLIAM F. MCCARTY, Defiance, Ohio, assignor to Defiance Machine Works, Defiance, Ohio, a Corporation of Ohio. Filed Aug. 5, 1919. Serial No. 315,509. 21 Claims. (Cl. 144—198.)



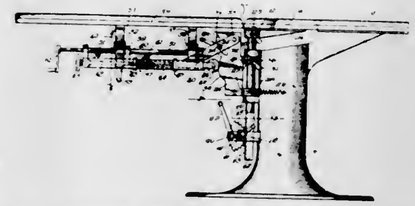
1. In a machine of the type described, a work holder having a plurality of peripheral holding devices spaced equal distances apart and each adapted to hold a stick approximately parallel with the axis of the work holder, each holding device having a pair of gripping jaws adapted to grip opposite sides of the stick a distance from its end, means for operating said jaws, a rest for the stick to rest on, springs carried by the means operating the jaws and bearing on the stick to hold the latter down on the rest, and a combined gage and abutment for one end of the stick to abut against to hold the stick against lengthwise movement and to gage the stick, means for intermittently rotating the said work holder, a revoluble cutter head having its axis parallel to the axis of the work holder and coinciding with the axis of the stick at rest at a time, and means moving the said cutter head bodily into engagement with the other end of the said stick to form a tenon on this end while the work holder is at rest.

1,337,144. PROCESS OF CONVERTING LIQUID HYDROCARBONS. WILLIAM M. MCCOMB, New York, N. Y., assignor to William J. Patterson, trustee, New York, N. Y. Filed Oct. 15, 1918. Serial No. 258,189. 9 Claims. (Cl. 196—25.)



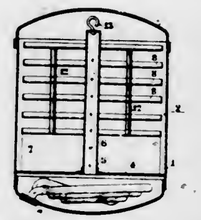
1. The herein described process of reducing higher boiling point hydrocarbons into lower boiling point hydrocarbons, which consists in heating said higher boiling point hydrocarbons to a predetermined temperature, mixing the same with aqueous vapor, and projecting said mass into a sinuous, closed passageway, of gradually increasing downward pitch toward a source of heat.

1,337,145. OSTEOPATHIC TABLE. JOHN V. MCMANIS, Dayton, Ohio. Filed May 17, 1915. Serial No. 28,532. 18 Claims. (Cl. 128—74.)



1. An operating table comprising a support; a main table section mounted on the support; a vertical post, means connected with the support for adjusting the post vertically; auxiliary and intermediate table sections, each pivoted independently of the other about the axis of said post, and locks locking the intermediate and auxiliary table sections against pivotal movement.

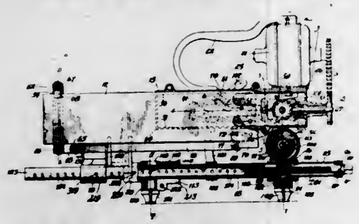
1,337,146. AUTOCLAVE-TRAY FOR COOKING GLUE. LOUIS MAUERHOFER, Paris, France. Filed Sept. 19, 1918. Serial No. 254,785. 3 Claims. (Cl. 126—284.)



3. A tray for the purpose described, comprising a flanged and apertured plate provided with an apertured tubular

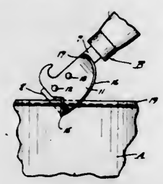
member projecting therefrom, and a plurality of flanged and apertured plates, said plates each being provided with a central opening through which the tubular member extends and with legs for supporting them one above the other.

1,337,147. MACHINE FOR SAWING, DRILLING, GRINDING, &c. PAUL MORRIS, Buffalo, N. Y. Filed Apr. 14, 1919. Serial No. 289,897. 28 Claims. (Cl. 29—73.)



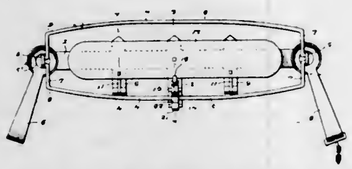
1. A machine of the character described, comprising a frame, a reciprocatory cross head adapted to slide thereon, a saw blade, and a backing blade at least as thin as said saw blade and adapted to be secured to said cross head, said saw blade being arranged lengthwise of one edge of said backing blade and attached with its ends thereto.

1,337,148. CAN-OPENER. EUGENE O. MURMANN, Glendale, Calif. Filed May. 12, 1919. Serial No. 296,320. 5 Claims. (Cl. 30—3.)



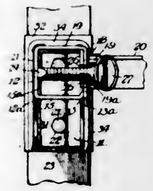
2. A can opener for cutting downwardly through the top of a can comprising in combination a member having a fulcrum for disposal beneath the lip of a can, said member having inset to receive said lip, and a knife blade slidably mounted on said member so that the said blade may be moved to cover or uncover the said inset.

1,337,149. TRAP. NELS S. NELSON and AXEL BOODE, Lacombe, Alberta, Canada. Filed July 15, 1919. Serial No. 310,885. 2 Claims. (Cl. 43—88.)



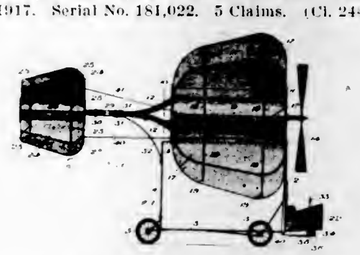
1. A trap of the class described including an elongated base having upset ends, jaws having offset ends hingedly connected to the ends of the base, said jaws being gradually widened from their ends to their center, U-springs between the base and the ends of the jaws for normally swinging the jaws closed, a plurality of cross pieces on the base, upstanding posts on the ends of the cross pieces, plates pivotally secured thereto, a pan of a slightly less length than that of the jaws resting on said plates and connected therewith, the intermediate cross piece having one of its ends flanged, a dog hingedly connected to the flange, said intermediate cross piece having an upstanding lug, a plate hingedly secured to the lug and connected to the under face of the pan, an upstanding lug on said plate having it outer edge notched, and the free end of the dog designed to be received in said notch when the jaws are in spread position.

1,337,150. BEDPOST-FASTENER. MORRIS B. OKUN, Chicago, Ill., assignor to A. Murphy, Chicago, Ill. Filed Aug. 6, 1917. Serial No. 184,597. 9 Claims. (Cl. 5—55.)



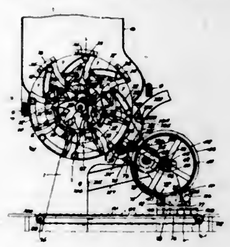
9. A device of the character described comprising a post, an angle iron rail, a member secured to the post, projections formed on the member, recesses formed in one leg of the rail, and means for engaging said leg of the rail to clamp the rail to the member with the projections positioned in the recesses, said member being so constructed as to permit the rail to be moved laterally in said member out of engagement with the projections.

1,337,151. AEROPLANE. HARRY J. PARKER, San Francisco, Calif., assignor, by direct and mesne assignments, to Sidney Williams, San Francisco, Calif. Filed July 17, 1917. Serial No. 181,022. 5 Claims. (Cl. 244—14.)



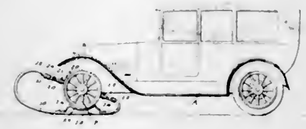
1. In an aerial apparatus, the combination with a hollow main frame, the body portion of which is provided with flanged members, a portion of said main frame extending rearwardly of the body portion and provided with a universally movable rudder, of a substantially rectangular frame suspended from the body portion of the main frame, a cylinder rotatably journaled on said body portion between the flanged members and provided with a plurality of radially-projecting planes, and means carried upon said rectangular frame for actuating the universally movable rudder.

1,337,152. DOUGH CUTTING AND MOLDING MACHINE. ANDREW PETERS, Oakland, Calif. Filed June 26, 1917. Serial No. 176,989. 5 Claims. (Cl. 107—9.)



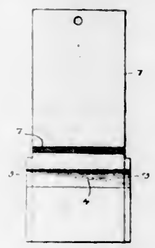
1. A dough cutting machine comprising a rotary receiver provided with peripheral pockets, a hopper for supplying dough to said pockets, spaced apart knives in said hopper for cutting the dough in the pockets from the dough in the hopper, and means for ejecting the dough from the pockets.

1,337,153. RUNNER ATTACHMENT FOR AUTOMOBILES. CHARLIE PETERSON, Crystal Falls, Mich. Filed Mar. 25, 1919. Serial No. 284,932. 1 Claim. (Cl. 280—13.)



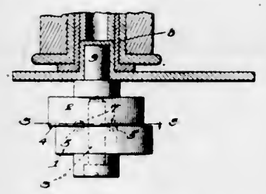
A runner attachment for the front wheels of automobiles comprising a runner member longitudinally bowed and having its forward and rear ends upwardly and rearwardly and upwardly and forwardly curved, respectively, a supporting member secured upon the top of the runner member and including upwardly converging brace members and an arcuate portion connecting the brace members, a semicircular saddle member secured upon said curved portion and having its ends provided with extensions secured upon the forward and rear ends of the runner member, said saddle member being adapted to engage the lower portion of the periphery of a wheel rim, and a semicircular clamping member complementary to the saddle member and adapted for embracing engagement upon the upper portion of the periphery of the wheel rim, said clamping member being detachably connected with the saddle member.

1,337,154. SHARPENER. GEORGE W. PHILLIPS, Sawyer, Kans. Filed Feb. 14, 1919. Serial No. 277,016. 2 Claims. (Cl. 76—82.)



2. A device of the class described comprising a plate, a block connected with one face thereof and having its upper side extending at an angle from said plate so as to form a pocket with an inclined wall, side pieces closing the ends of said pocket and a triangle shaped cutting member fitted in said pocket.

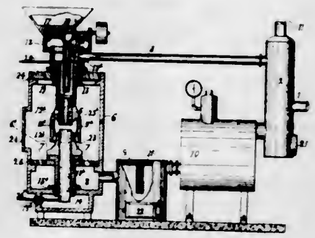
1,337,155. CARRIER FOR BRAIDING-MACHINES. STANISLAS S. PICARD, Providence, R. I. Filed Oct. 27, 1919. Serial No. 333,495. 7 Claims. (Cl. 28—24.)



7. A carrier for braiding machines, including relatively movable parts each formed to travel in the guideways,

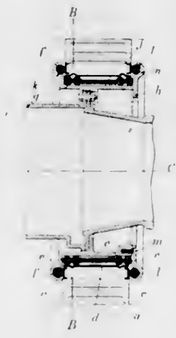
said parts being arranged so that an end of each projects outwardly beyond the adjacent end of the other, and a bobbin support carried by one of the parts.

1,337,156. ELECTRIC FURNACE. JULIUS A. PICKENS, Easley, S. C. Filed June 14, 1919. Serial No. 304,230. 6 Claims. (Cl. 204—64.)



1. The combination, in an electric furnace, of a combustion chamber equipped with an electrode having an aperture and chambered opening, longitudinally through its central portion and mating its point with the point of an electrode of solid construction, means of insulating said electrodes from electric contact with the surfaces of said combustion chamber and means of conveying an electric current into said electrodes, substantially as described.

1,337,157. SHOCK-ABSORBER FOR AIRPLANE-RADIATORS. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, Seine, France. Filed Jan. 30, 1919. Serial No. 274,101. 4 Claims. (Cl. 244—31.)

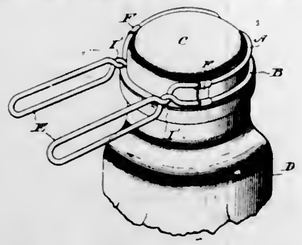


1. An elastic suspension for aeroplane radiators having an annular shape, comprising in combination a central support, annular yielding members surrounding said central support and thereby adapted to separate the radiator from the support, end thrust members adapted to prevent any movement of the radiator in an axial direction with respect to the central support and means for securing said end thrust members to the central support.

1,337,158. JAR-COVER REMOVER. FRED L. REED, Syracuse, N. Y. Filed Nov. 20, 1919. Serial No. 339,302. 6 Claims. (Cl. 81—3.1.)

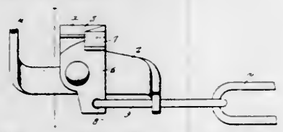
1. A cover remover comprising a contractible cover engaging member adapted to encircle the greater portion of the cover, means for contracting said member around the cover and depending L-shaped members rigidly secured to said engaging member and forming inwardly extending projections movable toward each other when said

member is contracted, said projections being positioned below the cover engaging member and adapted to enter



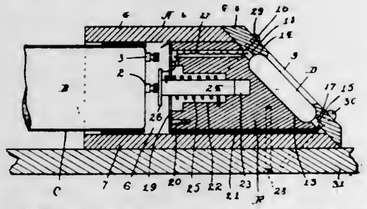
between the cover and sealing rubber when said member is contracted.

1,337,159. WIRE-STRETCHER. SEVER C. REPPE, Winifred, Mont. Filed July 22, 1919. Serial No. 312,550. 1 Claim. (Cl. 24—134.)



A device of the class described comprising a body having its upper end extending at right angles to provide a stationary jaw, a wing extending from each side edge of said body, one of said wings having a hook thereon which is in alinement with the jaw, the other wing having its end extending downwardly and provided with an opening, a movable jaw pivoted to the body and having a curved edge coöperating with the stationary jaw and an offset extension extending over the edges of the stationary jaw and a link connected with the movable jaw and passing through said opening.

1,337,160. BATTERY-TESTER. GEORGE H. RIEBETH, Minneapolis, Minn. Filed May 28, 1919. Serial No. 300,338. 5 Claims. (Cl. 175—183.)



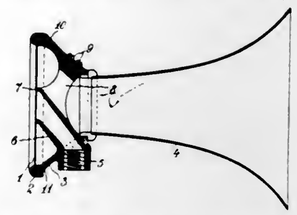
2. A battery tester comprising, in combination, a receptacle open at one end and adapted to receive the terminal end of a battery therein, a meter for testing the battery supported by said receptacle and a pair of terminals leading from the meter and arranged in the receptacle with which the terminals of the battery are adapted to contact when the battery is inserted in the receptacle.

1,337,161. FIRE-ALARM SIGNALING DEVICE. WILLIAM JOSEPH ROY and JOSEPH BERNARD DANEL, Seattle, Wash. Filed Mar. 11, 1919. Serial No. 282,032. 5 Claims. (Cl. 200—33.)



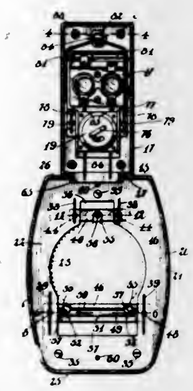
3. In a device of the character described, a rotatively adjusted venting valve, a toothed disk secured to turn therewith, a locking pawl engaging said disk, a fusible member holding said pawl in locking engagement, and a spring acting upon the valve to normally close it.

1,337,162. DIAPHRAGM-HORN. HELGE SVEN ALBERT RYDBERG, Malmö, Sweden. Filed Apr. 15, 1919. Serial No. 290,297. 2 Claims. (Cl. 116—142.)



1. In a diaphragm horn, a conical casing decreasing in diameter forwardly and provided at its forward reduced end with an opening which is concentric with relation to the casing, a horn element secured at the opening, a vibratory diaphragm held to the rear large end of the casing, and an inlet pipe arranged diagonally within the conical casing and extending rearwardly through one side thereof, said inlet pipe having an annular surface contacting with the inner face of the diaphragm, said surface being concentric with relation to the casing, and a radial rib connected with the casing and with the inlet pipe.

1,337,163. PROTECTIVE CASING FOR ELECTRIC METERS. JOSEPH J. SCHICKLUNA, Buffalo, N. Y. Filed Jan. 25, 1915, Serial No. 4,273. Renewed Mar. 2, 1920. Serial No. 362,741. 17 Claims. (Cl. 247—13.)



2. A protective casing comprising a body portion and a cover having an opening through which a meter within the casing is adapted to project, and supporting means for said meter having adjustable parts adjustable in different directions so that said means may be positioned with respect to the opening in said cover to permit of fastening different kinds of meters in place.

5. A protective casing comprising a body portion and a cover having the marginal portions of its side and bottom walls offset to fit around the side and bottom walls of said body portion, said cover having an opening through which a meter within the casing is adapted to project, and an adapter bar movable with respect to the opening in said cover and having adjustable devices movable toward and from each other and at an angle to the movement of said bar.

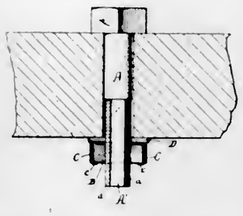
10. A protective casing comprising a body portion having a substantially circular opening in its rear wall pro-

vided with opposite extensions and a cover fitting said body portion and having an opening therein through which a meter within said casing is adapted to project, adapter bars vertically adjustable within the extensions of said substantially circular opening, one of said adapter bars having a longitudinal slot and adjustable nuts within said slot, and the other having an opening midway between its ends, the meter being adapted to be fastened in position through the medium of said last-mentioned opening and said adjustable nuts, and means for securing and sealing the cover to said body portion.

14. A protective casing having an opening centrally between its side walls and smaller openings on opposite sides thereof, a conduit passing through the center opening, and washers having bosses on opposite sides thereof, the boss of one side of each washer being larger than that of the other, the large boss of one of the washers being adapted to fit into said central opening when leading the service wires through the smaller side openings and the bosses on the opposite sides of said washers being adapted to enter the smaller side openings when leading the service wires through a conduit in passing through the center or large opening, said washers when used in either openings being adapted to have screws passed therethrough for securing the casing to a support.

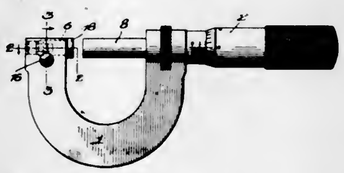
17. A protective casing having a slot whose longitudinal walls are provided with inwardly-extending flanges, one of said flanges being cut-away, and nuts movable lengthwise in said slot and having grooves fitting said flanges, said nuts being adapted for insertion into said slot through the cut-away portion of one of said flanges.

1,337,164. NUT-LOCK. RICHMOND TERRELL SKIPWORTH, Utica, Miss. Filed Jan. 15, 1920. Serial No. 351,590. 1 Claim. (Cl. 151—5.)



The combination with a bolt having longitudinally extending flat faces, a nut adapted to be positioned on said bolt, and nut-locking members carried by said nut and comprising metallic strips passing through said nut, and having projecting terminals normally inclined to the end face of said nut and adapted to be bent into contact with said flat faces of the bolt.

1,337,165. CALIPER. LEWIS D. SPENCE, East Providence, R. I., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 1, 1919. Serial No. 280,045. 7 Claims. (Cl. 33—167.)



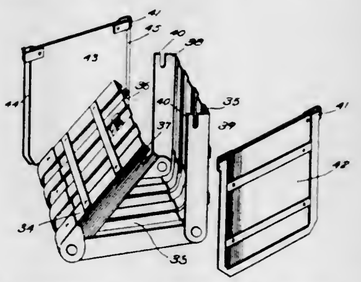
1. In a caliper, a U-frame having a bearing formed in the end of one leg, said bearing being a bore reduced in diameter and threaded at one end, said leg also having a chamber communicating with the bore, and provided with a threaded opening, a spindle slidable in the bore in the bearing and provided with a threaded bore in one end, an adjusting screw engaged in the reduced threaded end of the first mentioned bore and provided with a screw extension engaged in the bore of the spindle, the spindle having a flat face registering with the chamber, a spindle guiding washer disposed within the chamber and likewise formed with a flat face opposing the flat face on the spindle to hold the spindle from turning in its bearing, and a lock screw loosely supporting the washer and engaged in the threaded opening in the chamber, the head of the lock screw jamming against the spindle to secure the same in a set position.

1,337,166. SAFETY-RAZOR. JUSTIN KAY TOLES, San Francisco, Calif. Filed Mar. 8, 1918. Serial No. 221,333. 2 Claims. (Cl. 30—12.)



1. A safety razor comprising a handle, a razor comb carried thereby, a razor blade, a clamp pivotally mounted on the handle and having a bearing on which the razor blade is movable longitudinally, rollers to support said bearing, means to hold the blade with its cutting edge in close proximity to its comb, and means to reciprocate the blade longitudinally.

1,337,167. COLLAPSIBLE BOX. ABNER V. TREGO, Mount Washington, Mo. Filed July 1, 1918, Serial No. 242,855. Renewed Oct. 3, 1919. Serial No. 328,257. 7 Claims. (Cl. 220—7.)

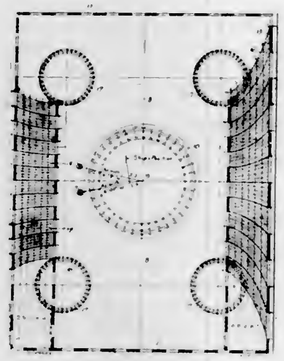


1. A collapsible box comprising a bottom, ends and sides, means for hinging the ends to the bottom, flanges on the ends and bifurcated to provide fingers and loops on the sides for engagement with said fingers.

1,337,168. SHIP'S-POSITION-PLOTTING CHART. FRITZ E. UTTMARK, New York, N. Y. Filed Apr. 13, 1918. Serial No. 228,462. 3 Claims. (Cl. 283—1.)

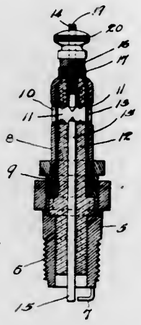
1. A chart having imprinted thereon an equatorial line and a zero meridian line, the said lines intersecting one

the other at a right angle, a compass diagram printed on the said chart and having its center coinciding with the



point of intersection of the said lines, marginal latitude scales printed at the sides of the chart, and longitude scales printed at the top and bottom of the chart.

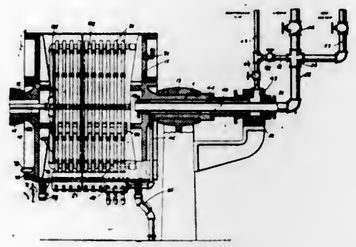
1,337,169. SPARK-PLUG. EARNEST A. WARNER, Beach, N. D. Filed May 8, 1917. Serial No. 167,208. Renewed Jan. 12, 1920. Serial No. 350,940. 1 Claim (Cl. 123—169.)



A spark plug having a terminal at one end, and having a shoulder in the bore thereof, a cylindrical core with a shoulder adapted to rest upon the shoulder in said plug, one end of the core having a reduced portion terminating in a curved shoulder, said core having a longitudinal aperture extending its entire length and intersecting a transverse opening therein, a shell fitted over the core and resting upon a shoulder within said plug and its outer end inwardly curved and apertured, the portion above said aperture resting upon the shoulder at the contracted end of the core, terminals fitted within the core and spaced apart at the opening therein, a threaded screw upon one of the terminals adapted to hold the same in an adjusted position, and an interiorly and exteriorly threaded cylindrical nut holding the shell within said plug.

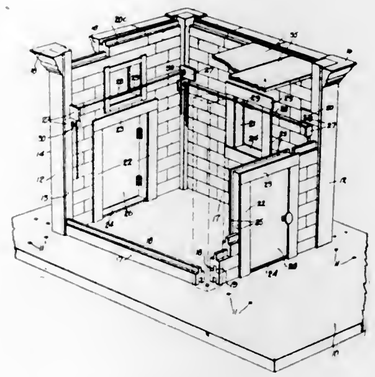
1,337,170. FILTER. LEWIS WACHENBERG, New York, N. Y. Filed Apr. 5, 1919. Serial No. 287,664. 7 Claims. (Cl. 210—13.)

1. In a filter, the combination of a drum rotatably mounted at each end on a hollow trunnion, means to deliver into the drum through a hollow trunnion a liquid to be filtered, means to deliver the filtrate from the drum, filtering means within the drum through which the filtrate is caused to pass leaving accumulations of solid matter, means to deliver a cleansing fluid through said hollow



trunnion independent of the liquid to be filtered in a reverse direction through the filtering means, means to deliver a cleansing fluid against the outer side of the filtering means simultaneously with the forcing of the cleansing fluid in the reverse direction, and means to rotate the drum during the cleansing thereof.

1,337,171. BLOCK TOY BUILDING. ORIN WARREN WARD, New York, N. Y. Filed June 18, 1919. Serial No. 304,996. 4 Claims. (Cl. 46—35.)

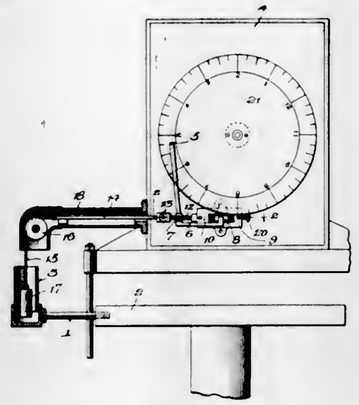


1. The herein described toy building comprising a plurality of interlocking wall blocks or elements, vertical corner posts each having laterally projecting flanges on its outer sides adapted to receive and hold the end portions of the adjacent wall members preventing outward displacement of such members with respect to the posts, and flexible tie means extending along each wall from one post to the next serving to prevent outward tilting of the posts and consequent separation of the wall members therefrom.

1,337,172. VULCANIZING-PRESS DETECTOR. ROBERT D. WHALLEY, Providence, R. I. Filed June 25, 1919. Serial No. 306,625. 11 Claims. (Cl. 234—17.)

2. A detector for vulcanizing presses for recording the period throughout which the mold is under pressure, comprising a spring actuated marking element, weight controlled means normally tensioning the spring, a rotatable clock dial over which the marking element is

adapted to move, and means operable by a movable part of the press upon movement of the press bed to pressure-



applying position for raising the weight and thereby releasing the spring actuated element by allowing release of the tension of the spring.

1,337,173. REVERSIBLE TOOTHBRUSH. DAVID G. WHITE, Boston, Mass. Filed Sept. 30, 1919. Serial No. 327,390. 3 Claims. (Cl. 15—39.)



1. A tooth brush comprising a handle formed with an arc-shaped support, and a flexible brush member telescoped over said support, said brush member adapted to be positioned on the support so as to present a convex or a concave contact surface.

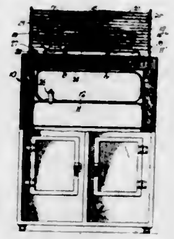
1,337,174. COMBINED SPOON AND FORK. EDWARD S. WHYTE, Lowell, Mass. Filed Sept. 26, 1919. Serial No. 326,481. 1 Claim. (Cl. 30—22.)



The combination with a spoon having a bowl and a handle portion in which is a longitudinal slot; of a fork arranged at the rear side of the spoon and having tangs and a shank, a loop surrounding the handle portion of the spoon and the shank of the fork, a threaded pin extending through the fork shank and the slot of the spoon handle and having a head at the rear side of said shank, and a nut mounted on said shank and disposed at the side of the spoon handle remote from the fork.

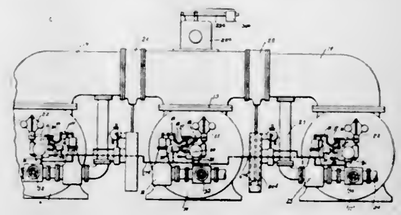
1,337,175. PROCESS OF AND APPARATUS FOR REFRIGERATING. FRED W. WOLF, Chicago, Ill., assignor, by mesne assignments, to The Isko Company, Chicago, Ill., a Corperation of Delaware. Filed Dec. 23, 1913. Serial No. 808,389. Renewed Dec. 1, 1916. Serial No. 134,502. 23 Claims. (Cl. 62—116.)

9. A refrigerating apparatus employing sulfur dioxid as the refrigerating agent comprising in combination, means to compress the sulfur dioxid gas, an atmospherically cooled condenser for condensing the compressed gas,



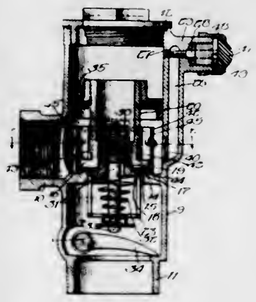
and an expansion chamber into which the condensed liquid is expanded, said parts being connected to form a closed circuit for said agent.

1,337,176. GOVERNING MECHANISM FOR COMPOUND ENGINES. FRANCIS HODGKINSON, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed July 10, 1917. Serial No. 179,772. 21 Claims. (Cl. 60—43.)



1. In combination with the independently moving high and low pressure sections of a compound fluid pressure engine, means responsive to variations in speed of the high pressure section for controlling the delivery of fluid to the low pressure section, and means for controlling the delivery of fluid to the low pressure section responsive to variations in speed of the low pressure section for shifting the governing function of the low pressure section from said first mentioned to said last mentioned means.

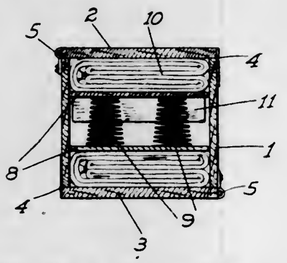
1,337,177. FLUSH-VALVE. EDWARD L. KELLAN, Chicago, Ill. Filed Apr. 1, 1916. Serial No. 88,230. 8 Claims. (Cl. 137—93.)



3. A flush valve device comprising a casing having an inlet and outlet, with an internal flange between them formed to provide a seat, a valve piece cooperating there-

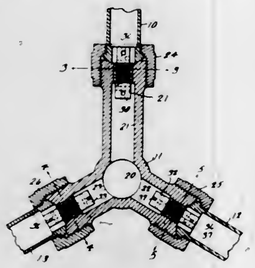
with, an open top shell in the path of the liquid flow surrounding the valve piece and normally resting on said flange and movable relatively to the valve piece, there being a restricted liquid passage between the shell and the valve piece, a projection from the wall of said shell spaced above and in the path of the valve piece and adapted, when the valve piece is partially raised, to be engaged thereby, whereby the shell is thereafter raised with the valve piece, said shell engaging said flange prior to the final closing movement of the valve piece, and means for vertically adjusting said projection on said shell.

1,337,178. RECEPTACLE FOR PNEUMATIC-TIRE TUBES. MILLARD FILLMORE SWERER, Jamestown, Calif. Filed June 21, 1919. Serial No. 305,775. 1 Claim. (Cl. 206—16.)



A receptacle for tire tubes comprising in combination; a casing, oppositely hinged lids on the top and bottom thereof, removable false bottoms in the casing, helical springs forcing the same apart, and sliding drawers mounted to one such bottom of the inner side thereof, whereby some of the vertical space necessary for the springs may be utilized.
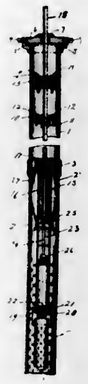
1,337,179. METHOD OF AND APPARATUS FOR DISTRIBUTING LUBRICATING-OIL UNDER STEAM-PRESSURE. JOHN G. TALMAGE, Cleveland, Ohio. Filed Jan. 24, 1919. Serial No. 272,962. 18 Claims. (Cl. 184—50.)



13. In a device of the character described, the combination of a Y-shaped member, having an internal chamber, a tubular passageway leading to such chamber, two passageways leading from such member, means for coupling pipes with the three passageways mentioned, a plug screw threaded into each of said passageways, said plug having a bore, the sum of the areas of such bores in the two distributing plugs being not greater than the area of the bore of the plug in the common portion of the device.

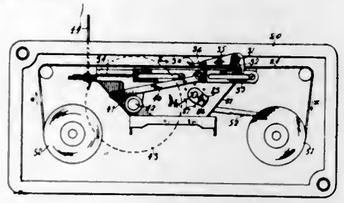
1,337,180. PUMP. DAVID A. CARDEN, Houston, Tex., assignor, by mesne assignments, to Interstate Oil and Equipment Corporation, a Corporation of Delaware. Filed Feb. 10, 1919. Serial No. 276,164. 2 Claims. (Cl. 103—79.)

1. A device of the character described, including a casing, a barrel fitted in the upper end thereof, whose lower end is formed into a seat, a valve controlling said seat, a plunger in said barrel provided with a fluid passageway, a valve controlling said passageway, a second barrel fixed in said casing below the barrel first mentioned, means carried by said second barrel and frictionally engaging the casing, a valve seat provided at the lower end thereof, a valve controlling said seat, a plunger in said last mentioned barrel, having a fluid passageway therethrough, a valve controlling said passageway, a tubular stem to which said plungers are attached and by means of which they may be simultaneously reciprocated, and a perforated pipe attached to and depending from the lower barrel.



REISSUES.

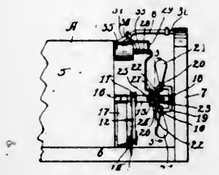
14,837. FOCAL-PLANE SHUTTER. ERNEST C. BASS, New York, N. Y. Filed Jan. 2, 1920. Serial No. 349,051. Original No. 1,287,183, dated Dec. 10, 1918, Serial No. 241,806, filed June 25, 1918. 19 Claims. (Cl. 88—19.3.)



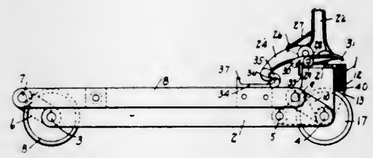
1. In combination, intermittent film exposure means; a support having an exposure opening; a main shutter member adapted when in abnormal position to close said exposure opening; an auxiliary shutter member adapted when in abnormal position to open said exposure opening and when in normal position to close it; and intermittent actuating means for moving both shutters to abnormal position, and for first restoring the main shutter member to normal position and subsequently the auxiliary shutter member.

14,838. AUTOMATIC REVERSIBLE FAN FOR EXPLOSIVE-ENGINES. ALBERT HOILAND, Fargo, N. D. Filed Jan. 14, 1920. Serial No. 351,511. Original No. 1,304,048, dated May 20, 1919, Serial No. 212,917, filed Jan. 21, 1918. 10 Claims. (Cl. 123—170.)

1. In an explosive engine, a radiator, a cooling fan operatively connected with the engine, said fan having radial wings tiltable about their radial axes, a collar slidable on the shaft of the fan and engaging the wings to tilt them, a thermostat inserted in the water circulation of the engine and radiator and having a thermostatically pushed and pulled rod, a radial arm rigidly fixed on said rod and engaging the collar to slide it on the fan shaft.

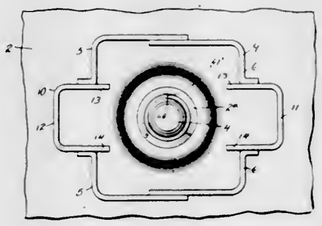


14,839. LIFTING-TRUCK. WILLIAM STUEBING, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Stuebing Truck Company, a Corporation of Ohio. Filed Feb. 24, 1920. Serial No. 360,937. Original No. 1,257,650, dated Feb. 26, 1918, Serial No. 9,122, filed Feb. 18, 1915. 7 Claims. (Cl. 254—10.)



7. In a lifting truck, the combination with a base, of an elevating platform and a pivoted steering handle, of means for connecting said platform to said handle to elevate said platform, comprising a manually operable member connected to one of said parts and tending to move out of connected relation to the other into a position where it will not interfere with movement of the handle when used for steering, means for locking said platform in elevated position, and a treadle, arranged when operated to release said platform from its upper locked position, and thus permit said platform to lower, said treadle being independent of the handle, and capable of operation when the connecting parts are disconnected and when said handle is in an upper or lowered position and at any time during its turning or steering movement.

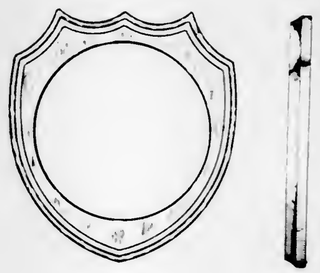
14,840. SAFE-DOOR TRAP. ANNA K. WINTER, New York, N. Y. Filed Dec. 13, 1919. Serial No. 345,919. Original No. 1,321,409, dated Nov. 11, 1919, Serial No. 303,967, filed June 13, 1919. 18 Claims. (Cl. 43—59.)



1. The combination with a member having a lock, of a pair of jaws normally concealed in the member, means arranged to swing the jaws together at a position adjacent the lock, and means arranged to retain the jaws in the said concealed position to be released by the attempt to operate the lock, whereby the jaws will close adjacent the lock to trap the operator.

DESIGNS.

54,823. LAMP-FRONT FRAME. WILLIAM F. ANKLAM, Detroit, Mich., assignor to C. M. Hall Lamp Company, Detroit, Mich., a Corporation of Michigan. Filed June 15, 1918. Serial No. 240,243. Term of patent 7 years.



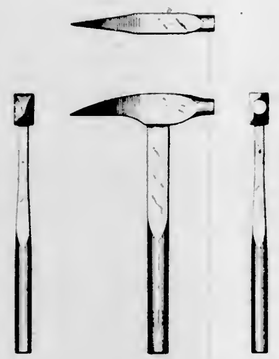
The ornamental design for a lamp front frame, substantially as shown.

54,824. INKSTAND. FRANK M. ASHLEY, Brooklyn, N. Y. Filed July 15, 1919. Serial No. 311,018. Term of patent 14 years.



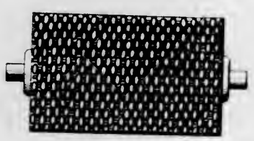
The ornamental design for an inkstand as shown and described.

54,825. COMBINATION-TOOL. JOHN BARNES, Valders, Wis. Filed Nov. 11, 1919. Serial No. 337,261. Term of patent 14 years.



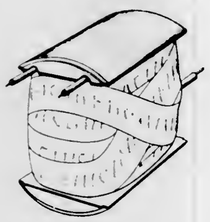
The ornamental design for a combination tool, as shown.

54,826. ROLL, MATRIX, DIE, OR SIMILAR ARTICLE. LOUIS T. BARTLETT, Wellesley Hills, Mass. Filed Feb. 19, 1919. Serial No. 278,071. Term of patent 3½ years.



The ornamental design for a roll, matrix, die, or similar article as shown.

54,827. ARMATURE OF A MAGNETO-ELECTRIC MACHINE. ALFRED H. BARTSCH, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,694. Term of patent 14 years.



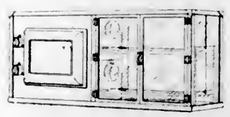
The ornamental design for an armature of a magneto electric machine.

54,828. RADIATOR-CASING FOR AUTOMOBILES. GUIDO G. BEHN, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1919. Serial No. 308,329. Term of patent 14 years.



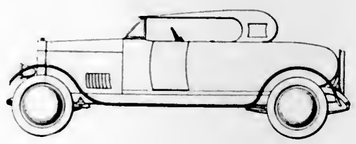
The ornamental design for a radiator casing for automobiles, as shown.

54,829. STERILIZING-CABINET. EARL C. BOOTH, Indianapolis, Ind., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Dec. 13, 1919. Serial No. 344,704. Term of patent 14 years.



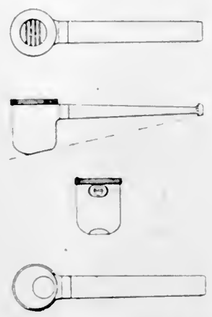
The ornamental design for a sterilizing cabinet, as shown.

54,830. AUTOMOBILE. ROBERT BOOTH, New Orleans, La., assignor to Rex Motor Car Manufacturing Company, New Orleans, La. Filed July 7, 1919. Serial No. 309,241. Term of patent 3½ years.



The ornamental design for an automobile as shown.

54,831. TOBACCO-PIPE. PETER F. CAMPBELL, Vinal Haven, Me. Filed Dec. 23, 1918. Serial No. 268,106. Term of patent 14 years.



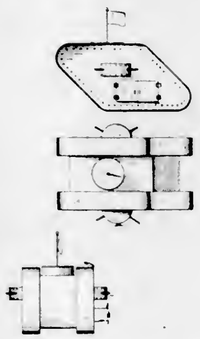
The ornamental design for a tobacco pipe, as shown.

54,832. COMBINED ELECTRIC FAN AND LAMP. THOMAS E. CLARK, Detroit, Mich. Filed Oct. 2, 1919. Serial No. 328,075. Term of patent 14 years.



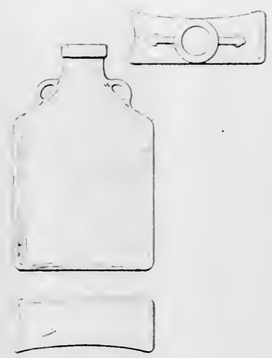
The ornamental design for a combined electric fan and lamp, substantially as shown.

54,833. TOILET-POWDER AND JEWELRY CONTAINER. HOWARD T. CLOPFELTER, Bruno, Minn. Filed Dec. 31, 1918. Serial No. 269,157. Term of patent 14 years.



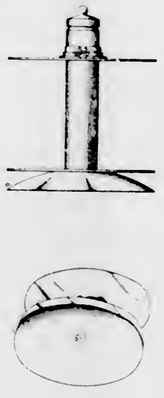
The ornamental design for a toilet powder and jewelry container, as shown.

54,834. BOTTLE OR JUG. CHARLES H. DAYTON, Iowa City, Iowa. Filed July 25, 1919. Serial No. 313,389. Term of patent 7 years.



The ornamental design for a bottle or jug, substantially as shown.

54,835. STEAM-DISTRIBUTER AND BASTER FOR COOKING APPARATUS. ALFRED M. DEMUTH, Chicago, Ill. Filed Aug. 21, 1919. Serial No. 319,033. Term of patent 14 years.



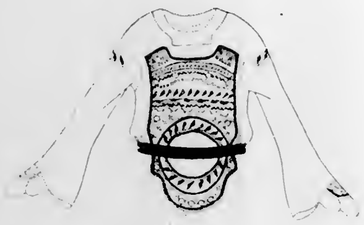
The ornamental design for a steam distributer and baster for cooking apparatus as shown.

54,836. WRAPPING-BAND OR ARTICLE OF SIMILAR NATURE. HARRY BREWERTON DUANE, Brookline, Mass., assignor to The Touraine Company, Boston, Mass., a Corporation of Massachusetts. Filed June 10, 1919. Serial No. 303,237. Term of patent 14 years.



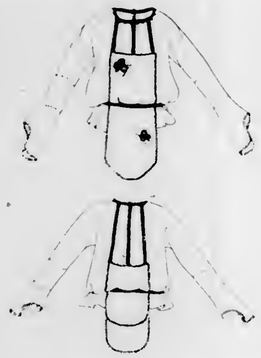
The ornamental design for a wrapping band or article of similar nature as shown and described.

54,837. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1919. Serial No. 343,934. Term of patent 3½ years.



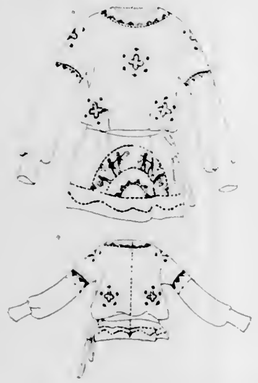
The ornamental design for a woman's blouse, as shown.

54,838. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1919. Serial No. 343,936. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

54,839. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1919. Serial No. 343,937. Term of patent 3½ years.



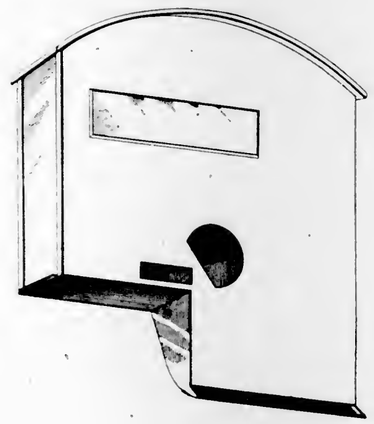
The ornamental design for a woman's blouse, as shown.

54,840. SEWING-MACHINE CABINET. WILLIAM C. FREE, Rockford, Ill. Filed Nov. 18, 1918. Serial No. 263,090. Term of patent 14 years.



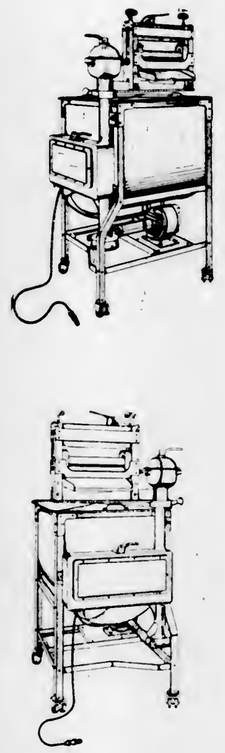
The ornamental design for a sewing machine cabinet, as shown.

54,841. NEWSPAPER-VENDING CABINET. OMAR J. HOTALING, East Orange, N. J., assignor to American News-Vender Corp., New York, N. Y., a Corporation of New York. Filed Mar. 15, 1919. Serial No. 282,990. Term of patent 7 years.



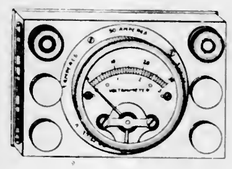
The ornamental design for a newspaper vending cabinet, as shown.

54,842. WASHING-MACHINE. WINTHROP K. HOWE, Rochester, N. Y. Filed Sept. 15, 1919. Serial No. 324,050. Term of patent 14 years.



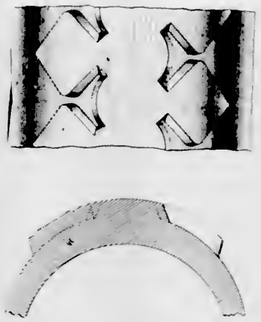
The ornamental design for a washing-machine, as shown.

54,843. PORTABLE ELECTRICAL MEASURING INSTRUMENT. ADRIAN H. HOYT, Penacook, N. H. Filed Mar. 21, 1919. Serial No. 284,216. Term of patent 7 years.



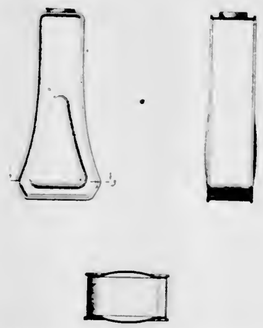
The ornamental design for a portable electrical measuring instrument, as shown.

54,844. RUBBER TIRE. EDISON G. HULSE, Akron, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y., a Corporation. Filed July 21, 1919. Serial No. 312,461. Term of patent 14 years.



The ornamental design for a rubber tire as shown.

54,845. RECEPTACLE FOR TOILET POWDERS AND OTHER SALABLE COMMODITIES. CLEN S. HUMPHREY, Brooklyn, N. Y., assignor, by mesne assignments, to Alfred E. Bruns, Brooklyn, N. Y. Filed June 21, 1919. Serial No. 305,906. Term of patent 14 years.



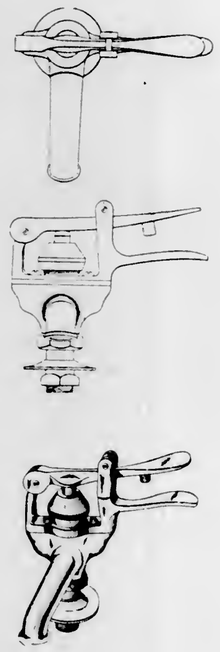
The ornamental design for a receptacle for toilet powders and other salable commodities.

54,846. FIBER PLATE. LEO D. JACOBY, Philadelphia, Pa., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed July 16, 1919. Serial No. 311,364. Term of patent 14 years.



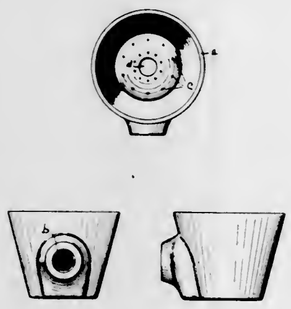
The ornamental design for a fiber plate as shown.

54,847. SELF-CLOSING FAUCET. HAROLD JARVIS, Toronto, Ontario, Canada. Filed Jan. 2, 1919. Serial No. 269,361. Term of patent 14 years.



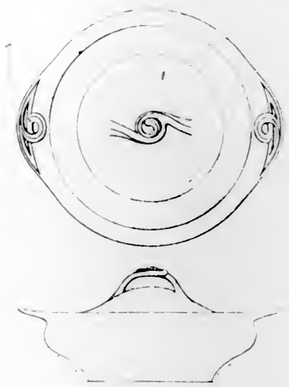
The ornamental design for a self-closing faucet as shown.

54,848. GAS-BURNER. ALBERT J. JOHNSON, Detroit, Mich., assignor of one-half to August J. Malek, Detroit, Mich. Filed Oct. 17, 1919. Serial No. 331,486. Term of patent 7 years.



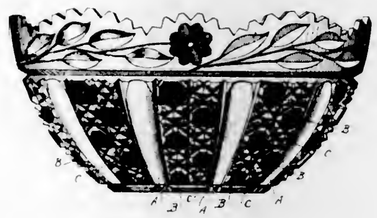
The design for a gas burner, as shown in the drawings.

54,849. COVERED DISH. ERNEST J. JOHNSON, Stoke-upon-Trent, England. Filed Aug. 13, 1919. Serial No. 317,361. Term of patent 3½ years.



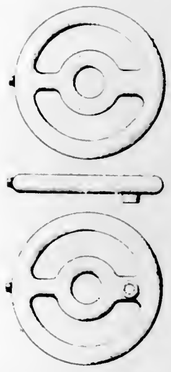
The ornamental design for a covered dish, as shown.

54,850. BOWL. THOMAS G. JONES, East Orange, N. J. Filed Nov. 18, 1919. Serial No. 338,979. Term of patent 14 years.



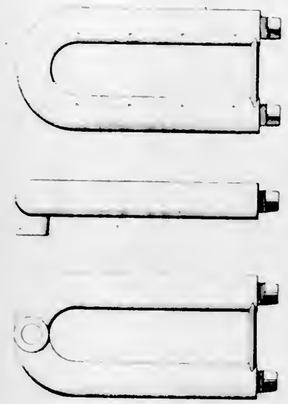
The ornamental design for a bowl as shown and described.

54,851. GAS-BURNER. HARRY E. KERR, Cleveland, Ohio, assignor to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Filed May 26, 1919. Serial No. 299,990. Term of patent 14 years.



The ornamental design for a gas burner, as shown.

54,852. GAS-BURNER. HARRY E. KERR and WILLIAM J. BARBER, Cleveland, Ohio, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Filed May 26, 1919. Serial No. 299,986. Term of patent 14 years.



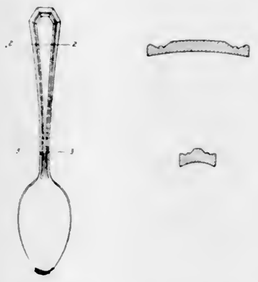
The ornamental design for a gas burner, as shown.

54,853. PIN-CUSHION. CECILE LAFITTE, New York, N. Y. Filed May 16, 1919. Serial No. 297,709. Term of patent 14 years.



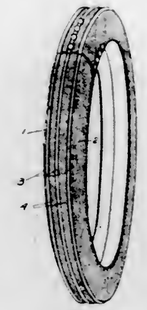
The ornamental design for a pincushion as shown.

54,854. SPOON OR SIMILAR ARTICLE. THOMAS B. LASHAR, Bridgeport, Conn., assignor to Associated Silver Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1919. Serial No. 283,941. Term of patent 7 years.



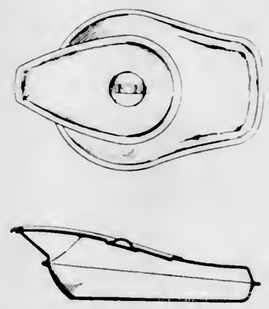
The ornamental design for a spoon or similar article, as shown.

54,855. TIRE-COVER. PAUL M. LOCKWOOD, Kansas City, Mo. Filed Apr. 17, 1919. Serial No. 290,862. Term of patent 7 years.



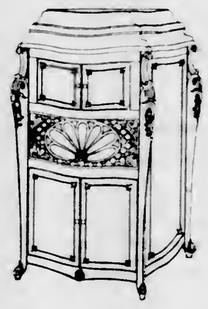
The ornamental design for a tire cover, as shown and described.

54,856. DOUCHE BED-PAN. VICTOR LOEWENBERG, New York, N. Y. Filed Oct. 6, 1919. Serial No. 328,918. Term of patent 14 years.



The ornamental design for a douche bed-pan as shown.

54,857. PHONOGRAPH-CABINET. WILLIAM A. MANGLESS, Chicago, Ill., assignor to American Automatic Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1919. Serial No. 341,338. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

54,858. GLASS COVER-PLATE FOR HEADLIGHT-LAMPS. CHARLES J. NEWBURGH, Chicago, Ill. Filed Feb. 5, 1918. Serial No. 215,536. Term of patent 14 years.



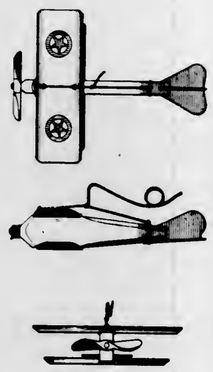
The ornamental design for a glass cover plate for headlight lamps, as shown and described.

54,859. RUBBER HEEL. TED NICAR, South Bend, Ind. Filed Nov. 29, 1919. Serial No. 341,543. Term of patent 14 years.



The ornamental design for a rubber heel as shown.

54,860. TOY AEROPLANE. LORENA B. NICHOLAS, Los Angeles, and FRANK H. HEINE, Santa Ana, Calif. Filed Aug. 9, 1919. Serial No. 316,442. Term of patent 7 years.



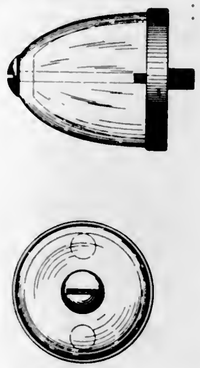
The ornamental design for a toy aeroplane as shown and described.

54,861. HANDLE FOR A HAIR-CLIPPER. WILLIAM J. VAN OSDEL, Chicago, Ill. Filed Oct. 16, 1919. Serial No. 331,193. Term of patent 14 years.



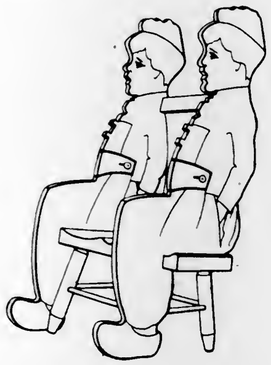
The ornamental design for a handle for a hair clipper, as shown.

54,862. SIGHT-FEED FOR OIL-PIPE. WALTER A. RARIG, Oakland, Calif. Filed June 30, 1919. Serial No. 307,868. Term of patent 7 years.



The ornamental design for a sight feed for oil-pipe, as shown.

54,863. CHAIR. EVERETT E. REWICK, Los Angeles, Calif. Filed Oct. 25, 1919. Serial No. 333,401. Term of patent 14 years.



The ornamental design for a chair, as shown.

54,864. DRESSER. EVERETT E. REWICK, Los Angeles, Calif. Filed Oct. 25, 1919. Serial No. 333,403. Term of patent 14 years.



The ornamental design for a dresser, as shown.

54,865. LAMP. LOUIS J. RIPICH, Cleveland, Ohio. Filed Dec. 2, 1919. Serial No. 342,035. Term of patent 7 years.



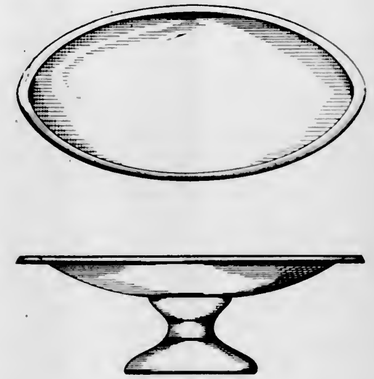
The ornamental design for a lamp, as shown.

54,866. GOBLET. ALBERT F. SAUNDERS, Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Filed Feb. 24, 1919. Serial No. 278,994. Term of patent 7 years.



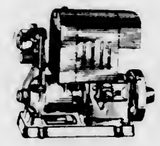
The ornamental design for a goblet, substantially as shown.

54,867. ICE-CREAM DISH. ALBERT F. SAUNDERS, Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Filed Feb. 24, 1919. Serial No. 278,995. Term of patent 7 years.



The ornamental design for an ice cream dish, substantially as shown.

54,868. ELECTRIC GENERATING UNIT. HERBERT D. SHAMBERG, New York, N. Y. Filed Aug. 2, 1919. Serial No. 315,025. Term of patent 7 years.



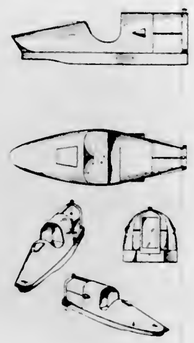
The ornamental design for an electric generating unit as shown.

54,869. PUMP-HANDLE. ROBERT SIDEL, New York, N. Y., assignor to Sidel-Rattner Manufacturing Company, a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,784. Term of patent 7 years.



The ornamental design for a pump handle, substantially as shown.

54,870. VEHICLE-BODY. JOSEPH SILVERSTEIN, Peoria, Ill. Filed July 3, 1919. Serial No. 308,678. Term of patent 3½ years.



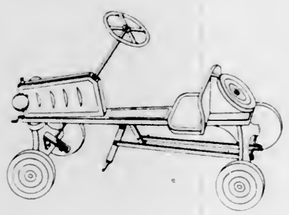
The ornamental design for a vehicle body as shown.

54,871. DISPENSING-RECEPTACLE. RAYMOND R. SMITH, Cleveland, Ohio, assignor to 3-0-3 Chemical Company, Toledo, Ohio, a Partnership comprising H. Bruce Stone and Raymond R. Smith. Filed Feb. 2, 1917. Serial No. 146,295. Term of patent 3½ years.



The ornamental design for a dispensing receptacle, substantially as shown.

54,872. TOY VEHICLE. ALFRED H. STAMM, Peoria, Ill. Filed Sept. 11, 1919. Serial No. 323,228. Term of patent 7 years.



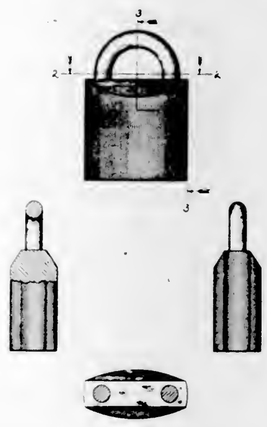
The ornamental design for a toy vehicle, as shown.

54,873. GENTLEMAN'S SOFT-COLLAR HOLDER. KARL STAUFENBEIL, Dubuque, Iowa. Filed Sept. 20, 1918. Serial No. 254,999. Term of patent 7 years.



The ornamental design for a gentleman's soft collar holder, as shown.

54,874. PADLOCK. EFMER B. STONE, New Britain, Conn., assignor to American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 7, 1918. Serial No. 253,081. Term of patent 14 years.



The ornamental design for a padlock as shown.

54,875. CABINET FOR X-RAY DENTAL APPARATUS. WILLIAM H. THWAITES, Grand Rapids, Mich., assignor to Thwaites X-Ray Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Aug. 9, 1919. Serial No. 316,482. Term of patent 14 years.



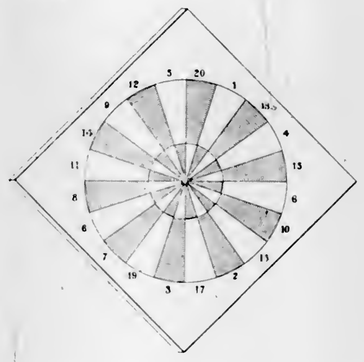
The ornamental design for a cabinet for X-ray dental apparatus, substantially as shown.

54,876. SIGNPOST. RICHARD C. THIGHMAN, Washington, D. C. Filed Nov. 18, 1919. Serial No. 338,977. Term of patent 7 years.



The ornamental design for a signpost, as shown.

54,877. GAME-BOARD. JOHN F. TOOHEY, Troy, N. Y. Filed Sept. 3, 1919. Serial No. 321,475. Term of patent 7 years.



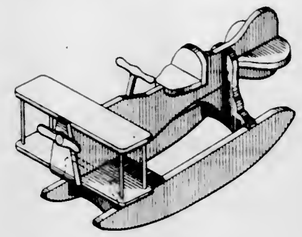
An ornamental design for a game board, as shown.

54,878. GARDEN-RAKE. INOSUKE TSUCHIYA, Sausalito, Calif. Filed Oct. 4, 1919. Serial No. 328,600. Term of patent 14 years.



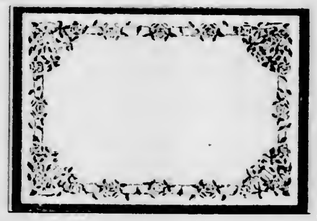
The ornamental design for a garden rake as shown.

54,879. ROCKING-HORSE. JOHN VAN WUYCKHUYSE, Rochester, N. Y. Filed Oct. 1, 1919. Serial No. 327,794. Term of patent 7 years.



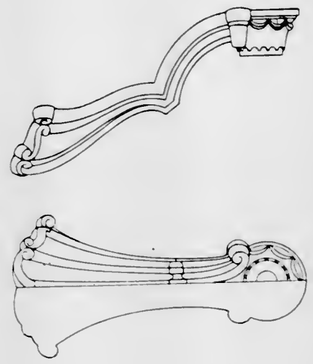
The ornamental design for a rocking horse as shown.

54,880. GRASS RUG. OSSIAN T. WAITE, Oshkosh, Wis., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Nov. 28, 1919. Serial No. 341,333. Term of patent 7 years.



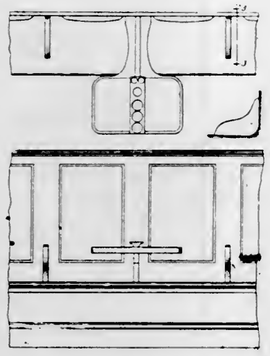
The ornamental design for a grass rug, substantially as shown.

54,881. ARM FOR LIGHTING-FIXTURES. GOTTFRIED WESTPHAL, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 30, 1918. Serial No. 231,760. Term of patent 3½ years.



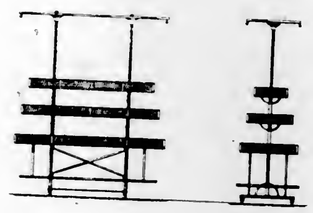
The ornamental design for an arm for lighting fixtures, as shown.

54,882. COMBINED SEAT AND TABLE. WILLIAM L. WHITE, Old Orchard, Me. Filed Oct. 13, 1919. Serial No. 330,505. Term of patent 7 years.



The ornamental design for a combined seat and table, as shown.

54,883. DISPLAY-RACK. BENEDICT E. WILLETT, Montgomery county, near Dayton, Ohio. Filed June 7, 1919. Serial No. 302,604. Term of patent 14 years.



The ornamental design for a display rack, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 13, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 87,859. (CLASS 15. OILS AND GREASES.) SUN COMPANY, Philadelphia, Pa. Filed July 9, 1915.



No claim is made for the purpose of this registration, but without waiving its common-law rights thereto, to the proper name "Sun Company," and no claim is made to the descriptive word "Oil" apart from the mark as shown in the drawing.

Particular description of goods.—Lubricating, Illuminating, Heating, and Paraffin Oils; Cylinder, Engine, Motor, Spindle, Neutral, Black, Transformer, Transmission, Journal, Compounded, Turbine, Gas, and Fuel Oils; Lubricating-Greases; Axle, Gear, Black, Petroleum, and Transmission Greases; Naphthas, Gasolene, Kerosene-Oil, Rust-Preventive in the Nature of Oils and Greases, Paraffin Wax and Candles, and Crude Petroleum.

Claims use since about Apr. 7, 1915.

Ser. No. 91,026. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Nov. 29, 1915.



Particular description of goods.—Sewing-Machines and Parts Thereof.

Claims use since about December, 1893.

Ser. No. 100,562. (CLASS 15. OILS AND GREASES.) SUN COMPANY, Philadelphia, Pa. Filed Jan. 12, 1917.



Which consists of a view of the ocean and sky, with the glow of the sun, and a diamond bearing the word "Sun," all inclosed within a circle. The representation of the sky is blue, the water is purple and blue, and the border of the diamond and the word "Sun" are red. For the purpose of this registration, but without waiving its common-law rights thereto, no claim is made by the applicant to the proper name "Sun Company," the descriptive word "Oils," or the geographical terms "Philadelphia, Pa." apart from the mark as shown in the drawing.

Particular description of goods.—Products of Petroleum as follows, to wit: Lubricating, Illuminating, Heating, and Paraffin Oils; Cylinder, Engine, Motor, Spindle, Neutral, Black, Transformer, Transmission, Journal, Compounded, Turbine, Gas, and Fuel Oils; Lubricating-Greases; Axle, Gear, Black, Petroleum, and Transmission Greases; Naphthas, Gasolene, Kerosene-Oil, Rust-Preventive in the Nature of Oils and Greases, Paraffin Wax and Candles, and Crude Petroleum.

Claims use since Apr. 7, 1915.

Ser. No. 101,151. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LONGMONT FARMERS MILLING & ELEVATOR COMPANY, Longmont, Colo. Filed Feb. 3, 1917.



Particular description of goods.—Self-Rising Flour.
Claims use since May 3, 1913.

Ser. No. 102,761. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANNAH B. ANDELL, Williams Bay, Wis. Filed Apr. 6, 1917.



No claim being made to the words "Nostrum Balsam" except as associated with the mark shown.
Particular description of goods.—A Hand-Lotion.
Claims use since Feb. 26, 1917.

Ser. No. 104,353. (CLASS 12. CONSTRUCTION MATERIALS.) CHINOOK LUMBER & SHINGLE CO., Seattle, Wash. Filed June 6, 1917.

CHINOOK
SELECTS

No claim being made to the word "Select" apart from the mark shown in the drawing.
Particular description of goods.—Shingles.
Claims use since July 15, 1915.

Ser. No. 106,261. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WM. R. JOHNSTON MFG. CO., Chicago, Ill. Filed Sept. 15, 1917.

JOHNSTON
PATENTED

No claim being made to the word "Patented."
Particular description of goods.—A Curtain-Window Composed of a Piece of Beveled Plate-Glass Surrounded and Held by a Frame Composed of Wood and Metal and Inserted in the Curtains of Automobiles.
Claims use since July 14, 1917.

Ser. No. 107,952. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE THOMAS & BETTS CO., New York, N. Y. Filed Dec. 13, 1917.

T & B

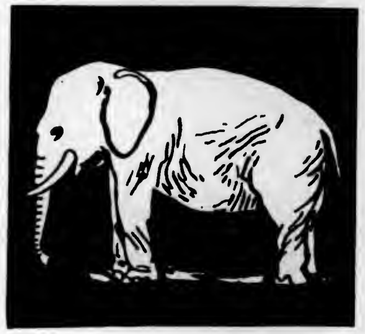
Particular description of goods.—Rigid Electrical Conduit, Flexible Electrical Conduit, Armored Electrical Conductors; Also Electrical Merchandise—Namely, Electrical Moldings, Conductors, Boxes, Bushings, Lock-Nuts, Connectors, Couplings, Elbows, T's, Supports, and Straps; Beam-Clamps, Hangers, Insulators, Fixture-Studs, Nipples, Ground-Clamps, Terminals, Electrical Contact-Plugs, Plugs, Switches, Receptacles for Electrical Contact Devices; Cut-Outs, Fusible and Mechanical, and Electrical Incandescent and Arc Lamps.
Claims use since Oct. 1, 1902.

Ser. No. 108,372. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BLOCK & KUHL COMPANY, Peoria, Ill. Filed Jan. 9, 1918.

"TRU-VAL"

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints.
Claims use since May 1, 1917.

Ser. No. 108,657. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE PHOSPHOR BRONZE SMELTING COMPANY, Philadelphia, Pa. Filed Jan. 26, 1918.



Particular description of goods.—Alloys of Copper, Tin, and Zinc and Phosphor-Bronze in Ingots, Castings, and Finished Forms.
Claims use since about August, 1875.

Ser. No. 108,712. (CLASS 33. GLASSWARE.) HOLOPHANE GLASS COMPANY, INC., New York, N. Y. Filed Jan. 31, 1918.

REFLECTOR-REFRACTOR

Particular description of goods.—Glass Globes and Reflectors for Artificial Light.
Claims use since on or about May 1, 1916.

Ser. No. 108,851. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Feb. 6, 1918.

INTERNATIONAL

Particular description of goods.—Mixed Grain for Chick and Poultry Feed and Grain Products and Concentrates for Hog and Cattle Feed.
Claims use since about the 10th day of May, 1910.

Ser. No. 109,766. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE D. GRUEN SONS & COMPANY, Cincinnati, Ohio. Filed Mar. 25, 1918.

AAI

Particular description of goods.—Watches.
Claims use since Nov. 15, 1917.

Ser. No. 110,926. (CLASS 39. CLOTHING.) KAHN TAILORING COMPANY, Indianapolis, Ind. Filed May 16, 1918.

ATLAS

Particular description of goods.—Raincoats.
Claims use since Dec. 1, 1917.

Ser. No. 111,658. (CLASS 39. CLOTHING.) THE PIONEER OVERALL COMPANY, Paterson, N. J. Filed June 18, 1918.

Kutie

Consisting of the word "Kutie."
Particular description of goods.—Overalls.
Claims use since about Dec. 28, 1917.

Ser. No. 111,721. (CLASS 7. CORDAGE.) CHARLES C. DAVIS, Chicago, Ill. Filed June 21, 1918.

APEX

Particular description of goods.—Twines, String, and Cordage, All of Said Goods Being Made from Cotton, Jute, Hemp, and Flax.
Claims use since June 7, 1918.

Ser. No. 111,869. (CLASS 39. CLOTHING.) HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y. Filed June 28, 1918.



The heart appearing in the drawing being lined for red.
Particular description of goods.—Middy-Blouses and Envelop-Chemise.
Claims use since February, 1918.

Ser. No. 112,861. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD OSCAR HEINRICH, Boulder, Colo. Filed Aug. 24, 1918.

NAVVY BEANS

Particular description of goods.—A Medical Preparation for Internal Use for Intestinal and Urethral Asepsis.
Claims use since February, 1912.

Ser. No. 112,868. (CLASS 12. CONSTRUCTION MATERIALS.) THE CLEVELAND-AKRON BAG CO., Cleveland, Ohio. Filed Aug. 26, 1918.



The words "The Cleveland Akron Bag Co." and "Roofing" are hereby disclaimed.
Particular description of goods.—Sheets Made of Comminuted Textile and Fibrous Material Saturated or Coated and Saturated with Bituminous Material for Use in Building Construction and Waterproof Protection and Roofing Purposes.
Claims use since on or about October, 1913.

Ser. No. 113,059. (CLASS 39. CLOTHING.) HENRY HUNVALD, New York, N. Y. Filed Sept. 7, 1918.

Mary's

The lining in the accompanying drawing is for shading only and not to represent color.
Particular description of goods.—Women's Outer Garments, Except Hats.
Claims use since August, 1917.

Ser. No. 113,134. (CLASS 39. CLOTHING.) UNITED LACE & BRAID MANUFACTURING COMPANY, Cranston, R. I. Filed Sept. 11, 1918.

Beaded Tip

Particular description of goods.—Boot and Shoe Heels of Rubber.
Claims use since Mar. 7, 1918.

Ser. No. 113,290. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRIFFIN M'F'G. CO., INC., New York, N. Y. Filed Sept. 21, 1918.

CRIFOLA

Particular description of goods.—Shoe-Polish.
Claims use since May 1, 1918.

Ser. No. 113,445. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER D. G. CO., St. Louis, Mo. Filed Sept. 27, 1918.



No claim being made to the exclusive use of the word "Quality" apart from the mark as shown in the drawing.
Particular description of goods.—Laces and embroideries in the piece.
Claims use since June 1, 1906.

Ser. No. 113,597. (CLASS 38. PRINTS AND PUBLICATIONS.) BERT L. WHITE COMPANY, Chicago, Ill. Filed Oct. 5, 1918.

Illuminated Moviegram

Consisting of the expression "Illuminated Moviegram."
Particular description of goods.—Advertising-Folders, Publications Issued at Irregular Intervals.
Claims use since July 1, 1918.

Ser. No. 114,260. (CLASS 10. FERTILIZERS.) TRENT RIVER MARL & LIME CO., New Bern, N. C. Filed Nov. 20, 1918.

Marl-Lime

No claim being made for the word "Marl-Lime" except in the arrangement shown.
Particular description of goods.—Refined Natural Fossilized Shell-Fish Used as Fertilizers and Fertilizer-Fillers.
Claims use since Mar. 1, 1918.

Ser. No. 114,689. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MAB CLEANER MANUFACTURING COMPANY, Salt Lake City, Utah. Filed Dec. 17, 1918.



Particular description of goods.—Washing Compound.
Claims use since July 23, 1918.

Ser. No. 114,946. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) CHARLES K. COOK, INCORPORATED, Camden, N. J. Filed Jan. 2, 1919.



Particular description of goods.—Pocket-Books; Wallets; Bill-Folds; Card-Cases; Ticket-Cases; Leather Frames for Photographs; Traveling Toilet-Cases; Purses; Handbags; Suitcases; Portfolios, and Brief-Cases.
Claims use since about 1913.

Ser. No. 114,981. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SPECIAL TOOL ENGINEERING MANUFACTURING COMPANY, INC., Dayton, Ohio. Filed Jan. 3, 1919.

STEMCO

Particular description of goods.—Special-Designed Machinery and Tools, Dies, Jigs, and Parts Thereof for Stamping, Shaping, or Forming Products from Both Metal and Wood.
Claims use since Sept. 1, 1918.

Ser. No. 115,111. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. A. WOODS MACHINE CO., Boston, Mass. Filed Jan. 8, 1919.

SAWCo

Particular description of goods.—Woodworking-Machines—Namely, Timber Sizers, Planers, and Matchers, Dimension-Planers, Buzz-Planers, Single Clapboard-Planers, Double Clapboard-Planers, Single Surfacers, Double Surfacers, Hardwood-Floorers, Inside Molders, Outside

Molders, Variety-Molders, Mortisers, Vertical and Horizontal Multiple-Spindle Car-Boring Machines, Bolster-Borers, Joint-Bolt Borers, Post-Borers, Gaining-Machines, Lock-Corner Machines, Horizontal Cut-Off Saws, Vertical Cut-Off Saws, Trim-Saws, Automatic Plug-Machines, Automatic Feed-Tables, Double Profilers, Single Profilers, Parts for the Above, and Jointers, Jointing-Heads, and Knife-Grinding Machines for the Cutter-Heads and Knives of the Above.
Claims use since Dec. 17, 1918.

Ser. No. 115,166. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY THAYER & CO., INC., Cambridge, Mass. Filed Jan. 13, 1919.

Cutex

The word "Cutex."
Particular description of goods.—Soaps.
Claims use since Dec. 28, 1917.

Ser. No. 115,188. (CLASS 10. FERTILIZERS.) EUGENE SUTER & COMPANY, New York, N. Y. Filed Jan. 14, 1919.



The mark consists of a white cross on a triangular black background having a border therearonnd.
Particular description of goods.—Chemicals and Chemical Oils for Use in the Manufacture of Fertilizer.
Claims use since Jan. 2, 1919.

Ser. No. 115,372. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAPIN & COMPANY, Hammond, Ind., and Chicago, Ill. Filed Jan. 22, 1919.



Particular description of goods.—Dairy and Stock Feed.
Claims use since June, 1906.

Ser. No. 115,618. (CLASS 39. CLOTHING.) THE HILKER-WIECHERS MANUFACTURING CO., Racine, Wis. Filed Feb. 4, 1919.



No claim being made to the word "Tubtest" apart from the mark shown.
Particular description of goods.—Men's Overalls and Work-Coats.
Claims use since Jan. 1, 1914.

Ser. No. 115,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) U. S. EMERGENCY RATION CORP., Belleville, N. J. Filed Feb. 5, 1919.

PACK BREAD

No claim being made to the exclusive use of the word "Bread" apart from the mark as shown in the drawing.
Particular description of goods.—Concentrated Food Comprising a Combination of Any Form of Bread and Chocolate.
Claims use since about Jan. 7, 1919.

Ser. No. 115,663. (CLASS 17. TOBACCO PRODUCTS.) PONZIO BROTHERS CIGAR CO., New York, N. Y. Filed Feb. 6, 1919.



The trade-mark consists of a diagonally-arranged ribbon provided with green, white, and red stripes and having disposed over its intermediate portion a circular figure containing "P B C Co." On one side of the circular figure and disposed on the white strip of the ribbon is the word "Sigaro," and similarly arranged on the other side of the figure is the word "Nobile." Over the circular figure is the picture of a leopard and the word "Leopard." No claim, however, is made to the word "Sigaro" apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since December, 1918.

Ser. No. 115,817. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDMUND SCHNEIDER CO., Chicago, Ill. Filed Feb. 12, 1919.

All-in-One

Particular description of goods.—Polish for Furniture, Automobiles, and Pianos.
Claims use since Apr. 1, 1918.

Ser. No. 115,882. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDWARD MOORE, Brooklyn, N. Y. Filed Feb. 15, 1919.

MAGIC

Particular description of goods.—Miniature Theaters.
Claims use since Mar. 1, 1918.

Ser. No. 115,927. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Feb. 17, 1919.

SULPHURNO

Particular description of goods.—Dry and Ready-Mixed Paints; Paint and Varnish Driers; Paint Enamels; Wood-Stains; Wall-Paints; Lacs; Fillers for Use in Painting, and Varnishes.
Claims use since Feb. 1, 1919.

Ser. No. 116,155. (CLASS 17. TOBACCO PRODUCTS.) FRISHMUTH BRO. & COMPANY, INCORPORATED, Philadelphia, Pa. Filed Feb. 26, 1919.

ATTA BOY

Particular description of goods.—Cigarettes.
Claims use since about June 1, 1918.

Ser. No. 116,269. (CLASS 39. CLOTHING.) LA ROSE GARMENT COMPANY, St. Louis, Mo. Filed Mar. 3, 1919.

La Rose

Particular description of goods.—Ladies' Shirt-Waists.
Claims use since the 18th day of May, 1919.

Ser. No. 116,295. (CLASS 37. PAPER AND STATIONERY.) BUXTON & SKINNER PRINTING & STATIONERY CO., St. Louis, Mo. Filed Mar. 3, 1919.

CONSERVATION BOND

No claim being made for the word "Bond."
Particular description of goods.—Writing-Paper.
Claims use since May, 1918.

Ser. No. 116,309. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SEMINOLE CHEMICAL CO., Binghamton, N. Y. Filed Mar. 5, 1919.

SEMINOLE

E M C

The trade-mark consists of the word "Seminole," associated with and placed above the artistic monogram composed of an artistic combination of the letters "E M C," all printed in red.
Particular description of goods.—Healing-Ointment for Wounds, Abrasions, Pustular Swellings, and Skin Irritation.
Claims use since Jan. 1, 1919.

Ser. No. 116,400. (CLASS 39. CLOTHING.) AMER KNITTING MILLS, INC., New York, N. Y. Filed Mar. 8, 1919.

Amerknit

No claim is made to the word "Knit" apart from the mark shown on the drawing.
Particular description of goods.—Sweaters, Bathing-Suits.
Claims use since on or about the 3d of January, 1919.

Ser. No. 116,448. (CLASS 2. RECEPTACLES.) SEALRIGHT COMPANY, INC., Fulton, N. Y. Filed Mar. 10, 1919.

SEALRIGHT

Particular description of goods.—Paper Containers for Food and other Products, Paper-Body Tubes, and Paper Closure-Disks and Paper Caps for Such Containers.
Claims use since September, 1917.

Ser. No. 116,573. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KULLMAN, SALZ & CO., San Francisco, Calif. Filed Mar. 14, 1919.

GOLDEN WEST

Particular description of goods.—Hides and Leather.
Claims use since the latter part of the year 1906.

Ser. No. 116,667. (CLASS 37. PAPER AND STATIONERY.) THE REYNOLDS & REYNOLDS COMPANY, Dayton, Ohio. Filed Mar. 17, 1919.



No claim is made for the descriptive words "Fabric Linen" included in the drawing, and said drawing is lined for shading and not to indicate a particular color.
Particular description of goods.—Paper Tablets and Note-Books.
Claims use since 1900.

Ser. No. 116,773. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE HULBERT OIL & GREASE CO., Philadelphia, Pa. Filed Mar. 21, 1919.

SIM-O-LIN

Particular description of goods.—A Substitute for Linseed-Oil.
Claims use since Oct. 19, 1918.

Ser. No. 116,898. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) JOHN T. H. PATERSON, Chicago, Ill. Filed Mar. 25, 1919.

Liberty

Particular description of goods.—Closures or Mouthpieces for Tobacco Bags or Pouches, but Forming no Part of Such Bags or Pouches.
Claims use since Jan. 30, 1919.

Ser. No. 117,124. (CLASS 12. CONSTRUCTION MATERIALS.) THE NATIONAL BUILDERS COMPANY, Cleveland, Ohio. Filed Apr. 2, 1919.

NAILEBASE

Particular description of goods.—A Composition for Making Concrete Slabs.
Claims use since about June 1, 1918.

Ser. No. 117,451. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Apr. 14, 1919.

Big Buck

Particular description of goods.—Jumpers and Overalls.
Claims use since Mar. 18, 1919.

Ser. No. 117,654. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRE BROS. & CO. LIMITED, Leicester, England. Filed Apr. 21, 1919.

IRIS

Particular description of goods.—Elastic Webs.
Claims use since Dec. 1, 1917.

Ser. No. 117,667. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GRAFTON AND KNIGHT MANUFACTURING COMPANY, Worcester, Mass. Filed Apr. 21, 1919.

PRYZOAK

No claim being made to the exclusive right to the word "Pryzoak" apart from the mark shown in the drawing.
Particular description of goods.—Leather Belting.
Claims use since the year 1900.

Ser. No. 118,057. (CLASS 39. CLOTHING.) LIBERTY BOYS' KNEE PANTS CO., New York, N. Y. Filed May 1, 1919.



Particular description of goods.—Boys' Pants and Boys' Coats.
Claims use since Apr. 15, 1918.

Ser. No. 118,149. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) INTERNATIONAL COUPLERS COMPANY, Pittsburgh, Pa. Filed May 5, 1919.

AUTO-TITE

Particular description of goods.—Flexible Pipe-Joints, Expansion Pipe-Joints, Train-Pipe-Line Couplings, Automatic Train-Pipe Couplings, Pipe-Unions.
Claims use since April, 1917.

Ser. No. 118,270. (CLASS 39. CLOTHING.) MORRIS MARANS SONS, New York, N. Y. Filed May 8, 1919.

McAlpin

No claim being made to the exclusive use of the word "McAlpin" apart from the mark as shown in the drawing.
Particular description of goods.—Men's and Young Men's Clothes—viz., Overcoats, Outer Suits, and One, Two, and Three Piece Garments.
Claims use since Jan. 1, 1919.

Ser. No. 118,537. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed May 16, 1919.

HOME STRETCH



Particular description of goods.—Fertilizer.
Claims use since Aug. 1, 1889.

Ser. No. 118,829. (CLASS 32. FURNITURE AND UPHOLSTERY.) CUTLER DESK CO., Buffalo, N. Y. Filed May 23, 1919.



Particular description of goods.—Office Furniture—Namely, Desks, Flat and Round Top; Office and Directors' Tables, Typewriter Desks and Tables, and Bookkeeper Desks and Tables.
Claims use since 1890.

Ser. No. 118,985. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed May 28, 1919.

EVERLASTIC

Particular description of goods.—Bituminous Paint.
Claims use since May 1, 1919.

Ser. No. 119,198. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHAS. F. LORENZEN & CO., Chicago, Ill. Filed June 4, 1919.

TAWK-IN-TYLE

Particular description of goods.—Letters or Numbers Made of Highly-Glazed Porcelain Blocks, Which are Ordinarily Mounted Upon Bulletin-Boards or Signs.
Claims use since on or about May 1, 1919.

Ser. No. 119,333. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BUSTER MANUFACTURING COMPANY, Pittsburgh, Pa. Filed June 9, 1919.



No claim is made to the word "Bike" nor the illustration of a toy vehicle apart from the mark shown in the drawing.
Particular description of goods.—Toy Velocipedes.
Claims use since Apr. 10, 1919.

Ser. No. 119,522. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHAS. F. LORENZEN & CO., Chicago, Ill. Filed June 12, 1919.

TAWKINGTYLE

Particular description of goods.—Letters or Numbers Made of Highly-Glazed Porcelain Blocks, Which are Ordinarily Mounted upon Bulletin-Boards or signs.
Claims use since on or about May 1, 1919.

Ser. No. 119,543. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R. & L. COMPANY, Cleveland, Ohio. Filed June 13, 1919.

Baker

Particular description of goods.—Automobiles—Namely, Electric Passenger-Vehicles and Trucks.
Claims use since 1898.

Ser. No. 119,703. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed June 17, 1919.

Knight Klad

Particular description of goods.—Pajamas and Nightgowns.
Claims use since May 22, 1919.

Ser. No. 119,740. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHAS. F. LORENZEN & CO., Chicago, Ill. Filed June 18, 1919.

TALKINGTILE

Particular description of goods.—Letters or Numbers Made of Highly-Glazed Porcelain Blocks, Which are Ordinarily Mounted upon Bulletin-Boards or Signs.
Claims use since on or about May 1, 1919.

Ser. No. 119,948. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOAH HODGE, Los Angeles, Calif. Filed June 25, 1919.



Particular description of goods.—A Liniment for the Treatment of Neuralgia, Rheumatism, Coughs, Colds, Catarrh, Tonsillitis, Bronchitis, Sore Throat, Pleurisy, Soreness in Chest and Back, Piles, Cuts, Bruises, and Soreness of Any Kind.
Claims use since the 14th day of June, 1919.

Ser. No. 120,066. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTIN D. RYBOWSKI, Cleveland, Ohio. Filed June 28, 1919.

WARSZAWSKIE



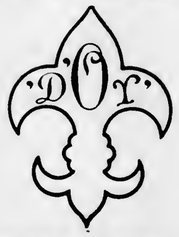
Particular description of goods.—Stomach-Tonic.
Claims use since Apr. 1, 1919.

Ser. No. 120,531. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GEER DRUG COMPANY, Charleston, S. C. Filed July 14, 1919.



The picture of the woman forming a part of the mark is fanciful. No claim is made for the words "Fair Skin" apart from the arrangement shown in the drawing.
Particular description of goods.—Skin-Cream.
Claims use since in or about the month of May, 1904.

Ser. No. 120,659. (CLASS 33. GLASSWARE.) GEORGE BORGFELDT & CO., New York, N. Y. Filed July 18, 1919.



Particular description of goods.—Glassware, as Follows: Table Glassware—Namely, Drinking-Glasses of All Kinds, Plates, Finger-Bowls, Sugars and Creams, Jugs, Oils, Vinegars, Salts and Peppers, Olive-Trays, Carafes and Decanters, and Grape-Fruit Dishes; Fancy Glassware—Namely, Compotes, with or without Covers and with or without Feet; Covered Jars, with or without Feet; Baskets, Vases, Ornamental Candlesticks, Plates, Globes, Electroliers, Syrup-Bottles, Marmalade-Jars, Cheese and Cracker Dishes; Cake-Plates, with or without Handles; Trays, Bonbon-Dishes, Covered and Uncovered Fruit-Bowls, Fruit-Saucers, Puff-Boxes, Open Puff-Dishes, Hair-Receivers, Mayonnaise Dishes and Spoons.
Claims use since Apr. 1, 1918.

Ser. No. 120,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL COCOANUT BUTTER COMPANY, Tacoma, Wash. Filed July 19, 1919.

Naco

Particular description of goods.—Cocoanut-Butter.
Claims use since June 20, 1919.

Ser. No. 120,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUNBEAM CHEMICAL COMPANY, Chicago, Ill. Filed July 19, 1919.

FLAKED
RIT

Particular description of goods.—Dyes Combined with Soap.
Claims use since on or about Apr. 21, 1919.

Ser. No. 120,864. (CLASS 39. CLOTHING.) AMERICAN NOVELTY WASH SUIT CO., INC., New York, N. Y. Filed July 24, 1919.

OregonJr

Particular description of goods.—Boys' Outer Clothing—Namely, Overcoats, One and Two Piece Wash-Suits, Serge Suits, Corduroy Suits, and Velvet Suits.
Claims use since about the month of April, 1919.

Ser. No. 120,942. (CLASS 12. CONSTRUCTION MATERIALS.) STEELEAD SKYLIGHT CO., Seattle, Wash. Filed July 25, 1919.

STEELEAD

Particular description of goods.—Skylight-Bars Which are Part of the Frame for Holding the Glass.
Claims use since July 1, 1918.

Ser. No. 120,958. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE T. GEORGIS, New York, N. Y. Filed July 26, 1919.



No claim is made for the word "Balsamic" apart from its use with the other portions of the mark.
Particular description of goods.—Soap.
Claims use since July 12, 1919.

Ser. No. 121,009. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed July 28, 1919.



Particular description of goods.—Piece Goods—Namely, Silks, Mixtures of Silk and Cotton, Silk and Wool, Silk and Fiber, Silk Crapes, Satins, and Velvets.
Claims use since May 5, 1919.

Ser. No. 121,018. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARTOLA DISTRIBUTING COMPANY, New York, N. Y. Filed July 28, 1919.

PARTO

Particular description of goods.—Face-Creams.
Claims use since April, 1907.

Ser. No. 121,070. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., Prague, Bohemia. Filed July 29, 1919.



Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Safety-Pins, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Snap-Fasteners, Thimbles, Straight Solid-Headed Pins for Personal Use, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.
Claims use since December, 1914.

Ser. No. 121,132. (CLASS 39. CLOTHING.) LEON SCHREIBER, Cleveland, Ohio. Filed July 30, 1919.



Particular description of goods.—Women's Aprons.
Claims use since July 10, 1919.

Ser. No. 121,180. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAXWELL-RAY COMPANY, Wilwaukee, Wis. Filed Aug. 1, 1919.

READ-RIGHT

Particular description of goods.—Electric Lamps.
Claims use since December, 1918.

Ser. No. 121,207. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE L. AND T. COMPANY, Oakland, Calif. Filed Aug. 2, 1919.

GOLD-KIST

Particular description of goods.—Table-Syrup.
Claims use since July 11, 1919.

Ser. No. 121,211. (CLASS 12. CONSTRUCTION MATERIALS.) QUIGLEY FURNACE SPECIALTIES CO. INCORPORATED, New York, N. Y. Filed Aug. 2, 1919.

CARBOSAND

Particular description of goods.—Refractory Lining for Furnace Structures.
Claims use since the 28th of July, 1919.

Ser. No. 121,227. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTO INDICATOR COMPANY, Grand Rapids, Mich. Filed Aug. 4, 1919.



Applicant does not claim the words "Auto Indicator Safety Signal," "Go," "Stop," or the two arrows, indicating the direction for turning, apart from the mark as shown in the drawing.
Particular description of goods.—Mechanically-Operated Traffic-Signals for Vehicles.
Claims use since Sept. 1, 1918.

Ser. No. 121,298. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MOSES F. FYBUSH, Los Angeles, Calif. Filed Aug. 6, 1919.



The words "Blue Bird" being blue, the back and wings of the bird being blue, while the breast is red, no claim being made to the words "The Tone That Thrills" other than in combination with the other features of the mark.
Particular description of goods.—Phonographs.
Claims use since July 14, 1919.

Ser. No. 121,347. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JEWELL BELTING COMPANY, Hartford, Conn. Filed Aug. 7, 1919.

NAVAJO

Particular description of goods.—Cotton and Hair Yarn Belting, Leather Laces, Round Leather Belting, Canvas Belting, and Flat Leather Belting.
Claims use since Sept. 15, 1915.

Ser. No. 121,440. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) BOONE TIRE & RUBBER COMPANY, Chippewa Falls, Wis. Filed Aug. 9, 1919.



The picture being that of Daniel Boone, deceased, no claim being made to the exclusive use of the representation of the tire-casing or the word "Tires" except in association with the mark as shown.
Particular description of goods.—Automobile-Casings of Rubber and Canvas.
Claims use since September, 1917.

Ser. No. 121,513. (CLASS 43. THREAD AND YARN.) H. E. LOCKE & COMPANY, INC., Boston, Mass. Filed Aug. 9, 1919.

FANEUIL

Particular description of goods.—Thread and Yarn.
Claims use since June, 1909.

Ser. No. 121,817. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA LEE SECREST, Chanute, Kans. Filed Aug. 19, 1919.

Madame Tibi's
ALSATIAN

No claim being made for the words "Madame Tibi's" apart from the mark shown in the drawing.
Particular description of goods.—Hair-Tonic.
Claims use since on or about the 20th day of January, 1919.

Ser. No. 121,976. (CLASS 39. CLOTHING.) HAND KNIT HOSIERY CO., Sheboygan, Wis. Filed Aug. 25, 1919.



No claim being made for the words "She-Boy-Gan" and "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Men's and Women's Knit Vests, Infants' Knitted Sacks; Knit Comfy Sets for Infants and Children Consisting of Knit Woolen Leggings, Knit Woolen Toques, and Knit Woolen Mittens; Bathing-Suits, Jersey Sweaters; Sweater-Coats for Men, Women, and Children; Silk Sweater-Coats, Hosiery, and Knit Skirts.
Claims use since Sept. 11, 1901.

Ser. No. 121,993. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) REGAL POLISHING CLOTH CO., Chicago, Ill. Filed Aug. 25, 1919.

SANICLOTH

No claim being made to the use of the word "Cloth" apart from the mark shown in the drawing.
Particular description of goods.—Polishing and Wiping Cloth.
Claims use since July 21, 1919.

Ser. No. 122,088. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STITT IGNITION CO., Columbus, Ohio. Filed Aug. 28, 1919.

VALVSEAT

Particular description of goods.—Spark-Plugs.
Claims use since Jan. 1, 1919.

Ser. No. 122,340. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FRANK CHAPMAN, Providence, R. I. Filed Sept. 5, 1919.

NOKORODE

The word "Nokorode."
Particular description of goods.—Alcohol-Stoves.
Claims use since Aug. 11, 1919.

Ser. No. 122,370. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM SCHALL & CO., New York, N. Y. Filed Sept. 5, 1919.

CASTLETON

Consisting of the word "Castleton."
Particular description of goods.—Drills and shirtings.
Claims use since May 1, 1918.

Ser. No. 122,374. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED SHOE MACHINERY ATHLETIC ASSOCIATION, Beverly, Mass. Filed Sept. 5, 1919.

THE THREE PARTNERS

Particular description of goods.—A Monthly Publication.
Claims use since July, 1914.

Ser. No. 122,430. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOSEPH J. FREADRICH, St. Louis, Mo. Filed Sept. 8, 1919.

DUR-FLEX

Particular description of goods.—Leather Belting.
Claims use since Aug. 29, 1919.

Ser. No. 122,498. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWARD RIPLEY & SON, LTD., Bradford, England. Filed Sept. 9, 1919.

FLOVILLE

Particular description of goods.—Piece Goods Composed of an Admixture of Wool and Cotton.
Claims use since Jan. 3, 1918.

Ser. No. 122,577. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JUNIUS H. STONE, New York, N. Y. Filed Sept. 11, 1919.

FLEXOLITE

Particular description of goods.—Flexible-Fabric-Coating Paint for Acoustical Work.
Claims use since July 7, 1919.

Ser. No. 122,600. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WILLIAM C. KNOTT, Shreveport, La. Filed Sept. 12, 1919.



Particular description of goods.—Pneumatic-Tire Patch.
Claims use since May 5, 1919.

Ser. No. 122,612. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS RUSCONI, Wahtoke, Calif. Filed Sept. 12, 1919.

NATIVE SON

Particular description of goods.—Fresh Grapes.
Claims use since 1916.

Ser. No. 122,622. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BEST BEVERAGE & SPECIALTY CO., INC., Louisville, Ky. Filed Sept. 13, 1919.



No claim being made to the words "Drink Kentucky Punch 5¢" apart from the mark shown. In the drawing the words and figure are lined for red, and the leaf and rectangle are lined for green.
Particular description of goods.—A Maltless Non-Alcoholic Non-Cereal Beverage Sold as a Soft Drink.
Claims use since March, 1919.

Ser. No. 122,647. (CLASS 38. PRINTS AND PUBLICATIONS.) MICHIGAN LUBRICATOR COMPANY, Detroit, Mich. Filed Sept. 13, 1919.

THE LUBRICATOR

Particular description of goods.—A Monthly Publication.
Claims use since Aug. 1, 1919.

Ser. No. 122,904. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDGAR L. MOADINGER, New York, N. Y. Filed Sept. 19, 1919.

ELMOTONE

Particular description of goods.—A Medicine for Rheumatic Ailments.
Claims use since June 1, 1919.

Ser. No. 122,957. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JAMES R. BARTLETT, New York, N. Y. Filed Sept. 22, 1919.

HANDYLITE

Particular description of goods.—Watch and Clock Dials.
Claims use since Apr. 6, 1917.

Ser. No. 122,960. (CLASS 38. PRINTS AND PUBLICATIONS.) MAXWELL K. BURCKETT, Newark, N. J. Filed Sept. 22, 1919.

MONEY-TALKS and Merchandising

Particular description of goods.—Monthly Magazine.
Claims use since May 1, 1919.

Ser. No. 123,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN ROBERT SMITH, Los Angeles, Calif. Filed Sept. 22, 1919.

RABBIT SAGE



No claim being made for the word "Sage" and the representation of a sage-plant apart from the mark shown in the drawing.
Particular description of goods.—A Dry Composition for the Treatment of Influenza.
Claims use since July 29, 1919.

Ser. No. 123,002. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TIPP WHIP COMPANY, Tippecanoe City, Ohio. Filed Sept. 22, 1919.

AMÓLE

Particular description of goods.—Liquid and Paste Shampoos.
Claims use since August, 1898.

Ser. No. 123,007. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VALMAS DRUG CO., INC., Rochester, N. Y. Filed Sept. 22, 1919.

BON-OPTO

Particular description of goods.—Eye-Wash.
Claims use since January, 1915.

Ser. No. 123,018. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JACOB BACHMANN, New York, N. Y. Filed Sept. 23, 1919.



Particular description of goods.—Waterproof Leather Belting.
Claims use since May 17, 1906.

Ser. No. 123,022. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DUNGAN, HOOD & CO., INC., Philadelphia, Pa. Filed Sept. 23, 1919.



No claim is made to "Est. 1870, Philadelphia, U. S. A., Fine Glazed Kid" apart from the mark shown.
Particular description of goods.—Leather, and Particularly Kid-Leather.
Claims use since Feb. 5, 1919.

Ser. No. 123,025. (CLASS 17. TOBACCO PRODUCTS.) HALLE-PERRIS TRADING CORPORATION, New York, N. Y. Filed Sept. 23, 1919.



Particular description of goods.—Cigarettes.
Claims use since July 25, 1919.

Ser. No. 123,061. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LUNKENHEIMER COMPANY, Cincinnati, Ohio. Filed Sept. 24, 1919.

PRIMO

Particular description of goods.—Grease-Cups.
Claims use since January, 1916.

Ser. No. 123,064. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LUNKENHEIMER COMPANY, Cincinnati, Ohio. Filed Sept. 24, 1919.

SECURO

Particular description of goods.—Grease-Cups.
Claims use since January, 1917.

Ser. No. 123,070. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LUNKENHEIMER COMPANY, Cincinnati, Ohio. Filed Sept. 24, 1919.

BEACON

Particular description of goods.—Mechanical Lubricators.
Claims use since January, 1917.

Ser. No. 123,157. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLEROLINE CHEMICAL CO. INC., New York, N. Y. Filed Sept. 26, 1919.

CLEROLINE

Particular description of goods.—A Chemical Compound for Keeping Wind-Shield or Glass Clear.
Claims use since Sept. 6, 1919.

Ser. No. 123,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARTOLA DISTRIBUTING COMPANY, New York, N. Y. Filed Sept. 26, 1919.

PARTOLA

Particular description of goods.—A Laxative Medicine in Candy Form.
Claims use since September, 1911.

Ser. No. 123,204. (CLASS 17. TOBACCO PRODUCTS.) F. A. DE FILIS, Mattoax, Va. Filed Sept. 27, 1919.

MATOAKA



The portrait shown on the drawing is a picture of the character known in Virginia history as Pocahontas.
Particular description of goods.—Cigars, Cigarettes, and Chewing and Smoking Tobacco.
Claims use since Jan. 1, 1919.

Ser. No. 123,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEONARD H. POCKMAN, San Francisco, Calif. Filed Sept. 27, 1919.

Bromaxprin

Particular description of goods.—A Laxative Tablet.
Claims use since Sept. 10, 1919.

Ser. No. 123,251. (CLASS 39. CLOTHING.) MITCHELL HOSIERY COMPANY, Columbus, Ga. Filed Sept. 29, 1919.



Particular description of goods.—Hosiery.
Claims use since Aug. 1, 1919.

Ser. No. 123,282. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL I. GROSS, New York, N. Y. Filed Sept. 30, 1919.

SICCO CHIEF

No claim being made to the representation of a hand kerchief apart from the mark shown in the drawing.
Particular description of goods.—Handkerchiefs.
Claims use since Apr. 1, 1919.

Ser. No. 123,283. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISIDOR HABER, Brooklyn, N. Y. Filed Sept. 30, 1919.



Particular description of goods.—Olive-Oil.
Claims use since the 15th day of February, 1919.

Ser. No. 123,300. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH O. BEAUCHAMP, Springfield, Mass. Filed Oct. 1, 1919.



The picture shown of a woman is fanciful.
Particular description of goods.—An Antiseptic for Use in the Nose.
Claims use since September, 1895.

Ser. No. 123,303. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CUMBERLAND (AYLESTONE) LIMITED, Leicester, England. Filed Oct. 1, 1919.



Particular description of goods.—Fishing - Tackle—Namely, Fishing Rods, Hooks, Nets, Lines, Reels, Cans, Baskets, Floats, Artificial Bait, and Buoys.
Claims use since Dec. 7, 1918.

Ser. No. 123,310. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DE NORDISKE FABRIKER, DE-NO-FA, Aktieselskab, Christiania, Norway. Filed Oct. 1, 1919.

DE-NO-FA

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats Used as Leather-Dressing Oils and Greases.
Claims use since September, 1912.

Ser. No. 123,366. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RED SEAL RUBBER MANUFACTURING CO., Oklahoma, Okla. Filed Oct. 2, 1919.

Red Seal



The seal being red.
Particular description of goods.—Inner-Tube-Repairing Outfit Comprising Cement, a Rubber Strip Having Detachable Backing, and Spreader.
Claims use since the 20th day of May, 1919.

Ser. No. 123,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS & LAWRENCE COMPANY, New York, N. Y. Filed Oct. 4, 1919.



No claim is made to the words "Davis & Lawrence Company," "Menthol Salve," and "New York," nor to the representation of the container apart from the mark as shown.
Particular description of goods.—Menthol Salve.
Claims use since January, 1897.

Ser. No. 123,553. (CLASS 39. CLOTHING.) I. MITTELMAN & CO., New York, N. Y. Filed Oct. 8, 1919.

YANKEE MAID

Consisting of the words "Yankee Maid."
Particular description of goods.—Ladies' and Children's Dresses.
Claims use since Sept. 19, 1919.

Ser. No. 123,558. (CLASS 12. CONSTRUCTION MATERIALS.) GEORGE B. SMITH, Springfield, Ill. Filed Oct. 8, 1919.

MAGNESTONE

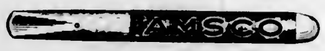
Particular description of goods.—Composition Floors and Stuccos of Magnesite Base.
Claims use since June 29, 1919.

Ser. No. 123,560. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) STOKES SEED FARMS COMPANY, Moorestown, N. J. Filed Oct. 8, 1919.



Particular description of goods.—Flower, Field, and Vegetable Seeds of All Descriptions.
Claims use since about Sept. 6, 1919.

Ser. No. 123,566. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN MUSICAL SUPPLY CO., Jersey City, N. J. Filed Oct. 9, 1919.



Said trade-mark consists primarily of the arbitrarily-selected word "Amsco" appearing in Roman letters outlined in the color of the label within a field of helical lines in the right part of the picture of a tuning-pin, no claim being made to the exclusive use of the picture of said tuning-pin apart from the mark shown in the drawing.

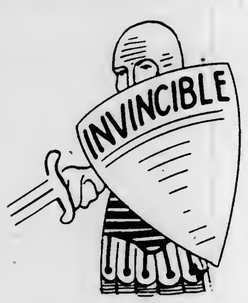
Particular description of goods.—Tuning-Pins.
Claims use since Oct. 1, 1919.

Ser. No. 123,590. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA PHONOGRAPH CORPORATION, New York, N. Y. Filed Oct. 9, 1919.

CAPRICE

Particular description of goods—Talking-Machines, Phonographs, Gramophones, Graphophones, and Music-Boxes.
Claims use since on or about Sept. 1, 1919.

Ser. No. 123,603. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX BRAUNBERG, Brooklyn, N. Y. Filed Oct. 10, 1919.



Particular description of goods.—A Hair-Restorer.
Claims use since Aug. 1, 1919.

Ser. No. 123,658. (CLASS 1. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. J. PALMER, Chicago, Ill. Filed Oct. 10, 1919.



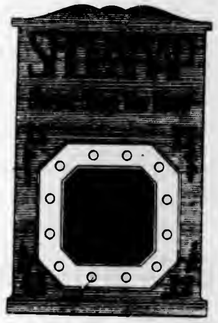
No claim being made to the words "Metal Polish" apart from the mark shown.
Particular description of goods.—A Metal-Polish.
Claims use since Sept. 12, 1919.

Ser. No. 123,782. (CLASS 39. CLOTHING.) AMERICAN ITALIAN TRADING COMPANY MCDONNELL, TRUDA & BERLINGIERI, New York, N. Y. Filed Oct. 15, 1919.



Particular description of goods.—Boots and Shoes Made of Leather, Boots and Shoes Made of Leather and Canvas, and Boots and Shoes Made of Canvas with Rubber Soles, and Rubbers.
Claims use since Oct. 10, 1919.

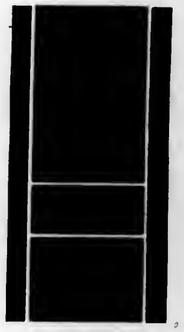
Ser. No. 123,846. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FEDERAL SNAP FASTENER CORPORATION, New York, N. Y. Filed Oct. 16, 1919.



The horizontal lines in the drawing indicating blue color, no claim being made to the exclusive right to the use of the word "Snap" *per se* or to the phrase "Surest Snap You Know" *per se*.

Particular description of goods.—Snap-Fasteners and Placket-Fasteners.
Claims use since Sept. 17, 1919.

Ser. No. 123,852. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMA L. HICKS, Rocky Mount, N. C. Filed Oct. 16, 1919.



Particular description of goods.—A Medicinal Preparation for Treating Diseases of the Stomach, Liver, Kidney, Bilious Affections, and Constipation.
Claims use since May 1, 1919.

Ser. No. 123,900. (CLASS 37. PAPER AND STATIONERY.) NEW PRODUCTS COMPANY, Pittsburgh, Pa. Filed Oct. 17, 1919.



No claim is made to the word "Tape" and the representation of a roll of tape.
Particular description of goods.—Gummed and Ungummed Paper and Cloth Strips or Tapes in Rolls Used as a Substitute for Twine, Labels, and for Wrapping, Mending, and Sealing Purposes and Strip and Tape Moistening Machines.
Claims use since Mar. 31, 1919.

Ser. No. 123,971. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) DANDA-HALPERN CO., INC., New York, N. Y. Filed Oct. 20, 1919.

BEADETTE

Particular description of goods.—Hand-Bags.
Claims use since Oct. 7, 1919.

Ser. No. 123,993. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. L. LEWIS, New York, N. Y. Filed Oct. 20, 1919.

Seltona

Particular description of goods.—Collodion Self-Toning Printing-Out Paper.
Claims use since March, 1906.

Ser. No. 124,015. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 20, 1919.



Particular description of goods.—Rubber-Soled Shoes Made of Fabric and Rubber.
Claims use since July 5, 1916.

Ser. No. 124,046. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FRAMINGHAM MANUFACTURING COMPANY, Framingham, Mass. Filed Oct. 21, 1919.

FRAMANCO

Particular description of goods.—Metal Valves for General Use, Pump-Governors, and Pressure-Reducing Valves.
Claims use since Sept. 2, 1919.

Ser. No. 124,095. (CLASS 39. CLOTHING.) WILLIAM BLOOM & CO., INC., New York, N. Y. Filed Oct. 23, 1919.

BEAUCRAFT

Particular description of goods.—Men's, Women's, and Children's Suits, Coats, Vests, Jackets, Sweaters, Bath-Robes, House-Gowns, Pajamas, Bathing-Suits, Riding-Habits, Underwear of Knitted and Woven Material, Gaiters, Hats, Caps, Stockings, Leather Gloves, Fabric Gloves, Shoes and Slippers Made of Rubber and Fabric, and Cloth Leggings and Spats, and Men's and Boys' Overcoats, Trousers, Dress-Shirts, Negligée Shirts, Sport-Shirts, Work-Shirts, Socks, Neckties, Collars, and Mufflers.
Claims use since Jan. 2, 1914.

Ser. No. 124,100. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MANUEL FELDMAN, New York, N. Y. Filed Oct. 23, 1919.

Marie Antoinette

Particular description of goods.—Rag and Grass Rugs.
Claims use since November, 1916.

Ser. No. 124,111. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN AND CO., INC., New York, N. Y. Filed Oct. 23, 1919.



The lining indicating gold color, no claim being made to the word "Satin" apart from the mark shown.
Particular description of goods.—Ribbons in the piece.
Claims use since 1900.

Ser. No. 124,139. (CLASS 39. CLOTHING.) GUITERMAN, ROSENFELD & COMPANY, New York, N. Y. Filed Oct. 24, 1919.

ALDERMAN

Particular description of goods.—Men's, Women's, and Children's Shoes Made Wholly of Leather, Rubber, Fabric, or Combinations Thereof; Hosiery, Knitted Underwear, and Men's Collars.

Claims use for men's, women's, and children's shoes made wholly or partly of leather, rubber, fabric, or combinations thereof since May 3, 1919; for hosiery since Apr. 7, 1915; for knitted underwear since Oct. 17, 1919.

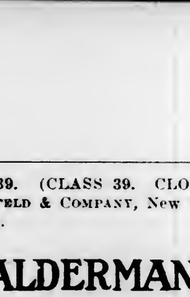
Ser. No. 124,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILL CORPORATION, Rochester, N. Y. Filed Oct. 24, 1919.

SYNTHOL

Particular description of goods.—Methyl Alcohol.

Claims use since Jan. 1, 1901.

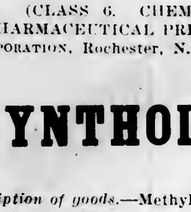
Ser. No. 124,167. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARBONA PRODUCTS COMPANY, New York, N. Y. Filed Oct. 25, 1919.



Particular description of goods.—A Chemical Fire-Extinguishing Compound.

Claims use since September, 1918.

Ser. No. 124,174. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FORT PITT MALLEABLE IRON CO., Pittsburgh and McKees Rocks, Pa. Filed Oct. 25, 1919.



Particular description of goods.—Malleable-Iron Castings.

Claims use since January, 1908.

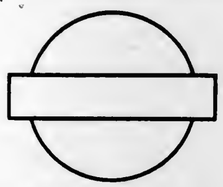
Ser. No. 124,206. (CLASS 5. ADHESIVES.) DETROIT SOLUBLE OIL CO., Detroit, Mich. Filed Oct. 27, 1919.

SAMSON

Particular description of goods.—Core-Oils and Adhesive Core Compounds.

Claims use since Dec. 1, 1918.

Ser. No. 124,227. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL BRASS COMPANY, Grand Rapids, Mich. Filed Oct. 27, 1919.



Particular description of goods.—Draw-Pulls, Tray-Handles, Door-Handles, Sash-Lifts, Door-Hinges, Desk-Hinges, Toilet-Hinges, Show-Case Hinges, Box-Hinges, Cupboard-Hinges, Refrigerator-Hinges, Hinges of General Application, Door-Guards, Towel-Bars, Door Stops and Bumpers, Door-Knockers, Hand-Operated Door-Bells, Letter-Plates, Curtain-Rings, Lawn-Sprinklers, Hose-Nozzles, Chains, Garment-Hooks, Metal Washers, Hasps, Chest-Handles; Corner-Angles, (Furniture and Trunks;) Label-Holders, Drawer-Knobs, Shelf-Brackets, Caster-Cups, Escutcheons, Escutcheon-Pulls, Shelf-Supports, Extension-Table Leaf-Supports, Extension-Table Corner-Irons.

Claims use since on or about the 1st day of May, 1911.

Ser. No. 124,244. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y. Filed Oct. 28, 1919.



Particular description of goods.—Acetylene Cutting and Welding Machines, Acetylene Lighting Plants, and Steam-Boilers.

Claims use since Sept. 28, 1918.

Ser. No. 124,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUMPHREYS HOMEOPATHIC MEDICINE CO., New York, N. Y. Filed Oct. 28, 1919. Under ten-year proviso.



Particular description of goods.—Homeopathic Medicines for the Treatment of Fever or Inflammation, Coughs and Colds, Dyspepsia, Catarrh, and Influenza, Disorders of the Kidneys, Urinary Incontinence.

Claims use since 1868.

Ser. No. 124,301. (CLASS 12. CONSTRUCTION MATERIALS.) H. K. FERGUSON COMPANY, Cleveland, Ohio. Filed Oct. 29, 1919.



No claim being made to the words "Ferguson Originated Standard Factories" apart from the mark as shown in the drawing.

Particular description of goods.—Permanent Buildings and Structural Elements Thereof.

Claims use since Aug. 24, 1918.

Ser. No. 124,408. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LEO HASEL, San Francisco, Calif. Filed Oct. 31, 1919.



Lined to express shading.

Particular description of goods.—Heel-Plates and Toe-Plates for Shoes.

Claims use since July 20, 1919.

Ser. No. 124,508. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH J. ALBRECHT, Prosser, Wash. Filed Nov. 3, 1919.



A portrait of the applicant.

Particular description of goods.—A Salve for the Treatment of La Grippe, Cold in the Head, Boils, Burns, Bunions, Corns, Catarrh, Pulmonary Affections, Ulcers, Cuts, Wounds of the Skin, Pink-Eye, Tuberculosis, Warts, Asthma, Rheumatism, Affections of the Kidneys and Bladder, Intestinal Fever.

Claims use since Sept. 1, 1917.

Ser. No. 124,559. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE UNITED STATES SPRING BED COMPANY, Springfield, Mass. Filed Nov. 4, 1919.

CLIMAX

Particular description of goods.—Extension or Sliding Couches in Which Two Frames are Used, One Being an Extension-Frame and Adapted to Slide Laterally of the other Frame in its Opening and Closing Movements.

Claims use since Feb. 1, 1903.

Ser. No. 124,587. (CLASS 39. CLOTHING.) THE BILTWELL GLOVE COMPANY, Toledo, Ohio. Filed Nov. 6, 1919.



Particular description of goods.—Gloves.

Claims use since Oct. 20, 1919.

Ser. No. 124,638. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BLICKENSDERFER MANUFACTURING COMPANY, (now by judicial change of name The Blick Typewriter Company,) Stamford, Conn. Filed Nov. 7, 1919.

BLICK NINETY

Particular description of goods.—Typewriters.

Claims use since September, 1919.

Ser. No. 124,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE POMPEIAN MFG. CO., Cleveland, Ohio. Filed Nov. 10, 1919.

Pompeian

Particular description of goods.—Face Creams—i. e., Massage, Cold, Vanishing; Face-Powders, Dentifrice, Talcum Powders, Rouge, Hair-Tonic, Shampoo, Perfumes, Toilet Waters, Sachet-Powder, Depilatory, Deodorant, Liquid Cream; Manicure Aids—Namely, Nail-Polish, Nail-Tints, Cuticle-Removers, and Nail-Bleach.

Claims use since 1900.

Ser. No. 124,735. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN A. SELBY, Camden, N. J. Filed Nov. 10, 1919.



Particular description of goods.—A Powder for Cleaning White Shoes and Clothing.

Claims use since Apr. 25, 1917.

Ser. No. 124,737. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Nov. 10, 1919.

Old Stratford

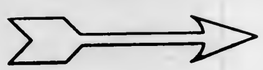
Particular description of goods.—Wedding, Ledger, Photomount, Book, Cover, and Writing Papers; Bond-Papers for Both Writing and Printing Purposes; Bristol-Board, Paper, and Cardboard for Picture and Photograph Mats; Stationery-Paper for Correspondence, and Cardboard Generally.
Claims use since 1898.

Ser. No. 124,783. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BLUE RIDGE METALS CORPORATION, Roanoke, Va., and Pittsburgh, Pa. Filed Nov. 12, 1919.

"Virginium"

Particular description of goods.—An Alloy Containing Fluor-Spar, Iron Oxid, Organic Titanium, and Vanadium and Castings and Forgings Made from Said Alloys.
Claims use since July 25, 1917.

Ser. No. 124,826. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORITZ M. WOLFF, Boston, Mass. Filed Nov. 12, 1919.



Particular description of goods.—A Medicinal Oil Liniment Useful in Allaying Pain Caused by Rheumatism, Lumbago, Neuralgia, Headache, Earache, Toothache, Sprains, and Contracted Cords.
Claims use since July 21, 1919.

Ser. No. 124,842. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE CONARD & JONES COMPANY, West Grove, Pa. Filed Nov. 13, 1919.



No claim is made to the words "Conard & Jones Co., West Grove, Pa." apart from the mark shown in the drawing.
Particular description of goods.—Rose-Plants.
Claims use since about Feb. 1, 1919.

Ser. No. 124,844. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. BUTLER, Toledo, Ohio. Filed Nov. 13, 1919.



Particular description of goods.—A Chemical Carbon-Preventive or Gas-Intensifier for Use in Hydrocarbon Liquid Fuels.
Claims use since May, 1919.

Ser. No. 124,845. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. BUTLER, Toledo, Ohio. Filed Nov. 13, 1919.

MIRACLE

Particular description of goods.—A Chemical Carbon-Preventive or Gas-Intensifier for Use in Hydrocarbon Liquid Fuels.
Claims use since January, 1917.

Ser. No. 124,853. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MAURICE FRANK, New York, N. Y. Filed Nov. 13, 1919.



Particular description of goods.—Bales or Bags of Waste Cotton, Waste Silk, and Woolen Rags and Waste Paper.
Claims use since Sept. 1, 1919.

Ser. No. 124,864. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NULYNE LABORATORIES, Jackson, Mich. Filed Nov. 13, 1919.

CHLOROX

Particular description of goods.—Tooth-Paste.
Claims use since Nov. 27, 1917.

Ser. No. 124,869. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHOEMAKER & BUSCH, Philadelphia, Pa. Filed Nov. 13, 1919.



Particular description of goods.—Insecticides.
Claims use since Aug. 29, 1919.

Ser. No. 124,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMEON & ELTING, New York, N. Y. Filed Nov. 13, 1919.



No claim is made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Wash-Blue.
Claims use since Sept. 12, 1919.

Ser. No. 124,872. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. T. STONE, Mildura, Victoria, Australia. Filed Nov. 13, 1919.

CANNADONNA

Particular description of goods.—Herbaceous Mixtures for Treating Asthma and other Human Diseases.
Claims use since Jan. 9, 1917.

Ser. No. 124,915. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE OUTLOOK COMPANY, Cleveland, Ohio. Filed Nov. 14, 1919.

OUTLOOK

Particular description of goods.—Wind-Shield Cleaners of the Squeegee Type.
Claims use since about May 1, 1911.

Ser. No. 124,918. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLARENCE E. RENNECKAR, Wilmette, Ill. Filed Nov. 14, 1919.

MIRAKEL

Particular description of goods.—Detergents, a Fluid for Removing Spots, Cleaning Wool, Cotton, Silk, and Leather.
Claims use since May, 1913.

Ser. No. 124,954. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RADIUM LUMINOUS MATERIAL CORPORATION, New York, N. Y. Filed Nov. 15, 1919.

UNDARK

The horizontal lines shown in the drawing indicate shading and do not refer to color.
Particular description of goods.—Self-Luminous Material, Such as Compounds Containing Zinc Sulfid and Radium.
Claims use since about Oct. 17, 1919.

Ser. No. 124,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WATSON WILDER, assignor to Delicine Products Company, Chicago, Ill., a Corporation of Illinois, Chicago, Ill. Filed Nov. 15, 1919.

Delicine

"Delicine."
Particular description of goods.—Lotions for Rough, Chapped, Sunburned, and Wind-Burned Skin and for Healing and Bleaching the Skin, Cold-Creams, Ointments for Cuts, Burns, Bruises, Ivy-Poisoning, Insect-Sting, and Dentifrices.
Claims use since Nov. 4, 1919.

Ser. No. 124,974. (CLASS 43. THREAD AND YARN.) COMMONWEALTH THREAD CO. INC., Boston, Mass. Filed Nov. 17, 1919.



No claim is made to the words "Thread Manufactured and Sold Exclusively by" and "The Commonwealth Thread Co. Inc., Boston, Mass." apart from the mark shown in the drawing.
Particular description of goods.—Thread Used in the Manufacture of Shoes and for Similar Purposes Where a Strong and Durable Thread is Required, Known in the Trade as "Shoe-Thread."
Claims use since Nov. 1, 1918.

Ser. No. 124,975. (CLASS 43. THREAD AND YARN.) COMMONWEALTH THREAD CO. INC., Boston, Mass. Filed Nov. 17, 1919.



No claim is made to the words "Thread Manufactured and Sold Exclusively by," "The Commonwealth Thread Co. Inc.," "Boston, Mass.," and "Strongstitch" apart from the mark shown in the drawing.
Particular description of goods.—Thread Used in the Manufacture of Shoes and for Similar Purposes.
Claims use since Nov. 1, 1918.

Ser. No. 124,994. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAS. E. JAMESON, Detroit, Mich. Filed Nov. 17, 1919.

JFJ

Particular description of goods.—Preparation for Use in Disorders Arising from Imperfect or Prevented Digestion and Whenever a Physiological Aid is Required, to Increase the Digestive Power, and Also for Use in the Treatment of Ulcers of the Stomach and for Indigestion and Constipation.
Claims use since May 27, 1919.

Ser. No. 125,036. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAX SCHWARZ, New York, N. Y. Filed Nov. 17, 1919.

Maxine

Particular description of goods.—Voiles in the Piece.
***Claims use* since July 15, 1919.**

Ser. No. 125,053. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JENNINGS LACE WORKS CORP., New York, N. Y. Filed Nov. 18, 1919.

PAGE

Consisting of the word "Page."
Particular description of goods.—Dress Nets—viz., Plain or Fancy Lace-Net Piece Goods Manufactured from Silk or Cotton, Millinery Nettings, Hair-Nets, Veilings, Lace Veils, Mourning-Veils, Flouncings in the Piece for Complete Garments in Miscellaneous Lengths, Silk and Cotton Jersey Cloths in the Piece, Milanese Silk and Cotton Cloths in the Piece, and Wood-Fiber Cloths in the Piece, and Embroidered-All-Over Piece Goods.
Claims use since Nov. 3, 1919.

Ser. No. 125,066. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES P. SOHN, Towson, Md. Filed Nov. 18, 1919.



Particular description of goods.—Medicated Capsules for the Treatment of Headache.
Claims use since September, 1913.

Ser. No. 125,072. (CLASS 27. HOROLOGICAL INSTRUMENTS.) AMERICAN-SWISS WATCH CO. INC., Peekskill, N. Y. Filed Nov. 19, 1919.

SWITZER AAA LAND

No claim is being made as to the exclusive use of the word "Switzerland" except in the form shown and in connection with the three "A's" or triple "A."
Particular description of goods.—Watches, Watch-Movements, Watchcases, and Parts Thereof.
Claims use since Nov. 13, 1919.

Ser. No. 125,111. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAIRINE PRODUCTS CO., Philadelphia, Pa. Filed Nov. 20, 1919.



Particular description of goods.—A Salve Composition for Straightening the Hair.
Claims use since July 1, 1918.

Ser. No. 125,114. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN H. MULHOLLAND, Philadelphia, Pa. Filed Nov. 20, 1919.

BENTWOOD

Particular description of goods.—Wooden Spoons.
Claims use since Nov. 1, 1919.

Ser. No. 125,140. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WALWORTH MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 20, 1919.

W

Particular description of goods.—Pipe-Fittings and Valves Manufactured of Cast-Iron, Malleable Iron, Brass, Copper, and Steel—viz., Pipe-Fittings: L's, T's, Couplings, Nipples, Bushings, Plugs, Unions, Flanged Unions, Flanges, Caps, Reducers, Bends, Union-Elbows, and Union-T's; Valves: Globe-Valves, Angle-Valves, Check-Valves, Gate-Valves, Plug-Valves, Reducing-Valves, Safety-Valves, Y-Valves, Regulating-Valves, Foot-Valves, Back-Pressure Valves.
Claims use since July 1, 1914.

Ser. No. 125,162. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE NORWALK TIRE AND RUBBER COMPANY, INC., Norwalk, Conn. Filed Nov. 21, 1919.



No claim is made to the word "Norwalk" nor to the representation of the tube apart from the trade-mark.
Particular description of goods.—Elastic Vehicle-Tires.
Claims use since about Nov. 10, 1919.

Ser. No. 125,176. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MAURICE B. FREDERICKS, New York, N. Y. Filed Nov. 22, 1919.

"FIBERBONE"

Consisting of the word "Fiberbone."
Particular description of goods.—Paper-Fiber.
Claims use since Sept. 30, 1919.

Ser. No. 125,177. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEWIS FRIEND, New York, N. Y. Filed Nov. 22, 1919.

Vimard

Consisting of the word "Vimard."
Particular description of goods.—A Skin-Emollient.
Claims use since Nov. 7, 1919.

Ser. No. 125,190. (CLASS 12. CONSTRUCTION MATERIALS.) THE LEHON COMPANY, Chicago, Ill. Filed Nov. 22, 1919.



Particular description of goods.—Asphalt Roofing in Rolls and Sheets, Asphalt Roofing-Shingles, Asphalt Roofing-Strips, Waterproof Insulating and Sheathing Paper, Waterproof Insulating and Sheathing Fabrics, Plastic Roof-Coatings, Mastic Flooring, Mastic Building Compounds, and Asphalt Flooring in Rolls, Fabric Base.
Claims use since September, 1908.

Ser. No. 125,250. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANK A. RADER, Cleveland, Ohio. Filed Nov. 24, 1919.

VISCO

Particular description of goods.—Polish for Furniture and Woodwork.
Claims use since about Oct. 19, 1914.

Ser. No. 125,270. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MAURICE M. WILLIAMS, Dallas, Tex. Filed Nov. 24, 1919.

Nu-Shyne

Particular description of goods.—A Polishing Preparation for Automobiles, Carriages, Coaches, Woodworks, Floor, Furniture, and Similar Materials.
Claims use since about Nov. 14, 1919.

Ser. No. 125,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS INCORPORATED, New York, N. Y. Filed Nov. 25, 1919.

C-S-Z

Particular description of goods.—Medicinal Preparations for External Use in Skin Diseases and for Preventing Chating and Skin Irritation.
Claims use since April, 1917.

Ser. No. 125,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS INCORPORATED, New York, N. Y. Filed Nov. 25, 1919.

MUSTA-CREME

Particular description of goods.—Medicinal Preparations for External Use for the Treatment of Rheumatism, Sprains, Sore Throat, and other Painful and Inflamed Conditions of the Throat, Chest, and other Parts of the Body.
Claims use since November, 1914.

Ser. No. 125,297. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS INCORPORATED, New York, N. Y. Filed Nov. 25, 1919.

Qin-u-form

Particular description of goods.—Medicinal Preparations for Germicidal Purposes, and for the Treatment of Minor Affections of the Throat and Mouth.
Claims use since Sept. 20, 1918.

Ser. No. 125,298. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) McKESSON & ROBBINS INCORPORATED, New York, N. Y. Filed Nov. 25, 1919.

MOSQUITONE

Particular description of goods.—Preparations for Repelling Mosquitos and Healing Their Bites.
Claims use since June, 1906.

Ser. No. 125,299. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) McKESSON & ROBBINS INCORPORATED, New York, N. Y. Filed Nov. 25, 1919.

SULFARILLA

Particular description of goods.—Medicinal Preparations for Certain Skin Disorders and as a Blood-Purifier.
Claims use since August, 1918.

Ser. No. 125,331. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE IMPERIAL VARNISH AND COLOR COMPANY, LIMITED, Toronto, Ontario, Canada. Filed Nov. 26, 1919.

Floglaze

Particular description of goods.—Varnishes, Wood-Stains, Lacquers, Paint-Enamels, House-Paints, Shellacs, Japan, Liquid and other Driers, and Liquid and Semiliquid Floor and Wall Finishing Preparations.
Claims use since Jan. 23, 1912.

Ser. No. 125,400½. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LAURENT ROY, Manchester, N. H. Filed Nov. 28, 1919.

ALPINE

Particular description of goods.—A Cereal, Maltless Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since Mar. 10, 1919.

Ser. No. 125,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS SCHMID, INCORPORATED, New York, N. Y. Filed Nov. 29, 1919.

Mia

Particular description of goods.—Face-Powder and Rouges.
Claims use since January, 1919.

Ser. No. 125,436. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS SCHMID, INCORPORATED, New York, N. Y. Filed Nov. 29, 1919.

ADORMEE

Particular description of goods.—Face-Powders and Rouges.
Claims use since January, 1917.

Ser. No. 125,441. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LEOPOLD STEINER, New York, N. Y. Filed Nov. 29, 1919.

STEIN-O-LITE

Particular description of goods.—Electric Lamps and Radiators for Therapeutic Use.
Claims use since about November, 1919.

Ser. No. 125,446. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALWORTH MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 29, 1919.

"BOSTONG"

Consisting of the word "Bostong."
Particular description of goods.—Pipe-Wrenches.
Claims use since July 1, 1918.

Ser. No. 125,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE L. STOCKS, Blue Ridge, Ga. Filed Dec. 1, 1919.

"STOXOL"

Particular description of goods.—An Antiseptic Germicide and Deodorant.
Claims use since Nov. 1, 1919.

Ser. No. 125,480. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. WEBER, Roaring Spring, Pa. Filed Dec. 1, 1919.

WEBER'S



Including a portrait of myself.
Particular description of goods.—For Nerve and Bone Liniment, for Rheumatism, Headache, Neuralgia, Backache, Sore Throat, Pneumonia, Pleurisy, Cramps, Stiff Joints, Sprains, Bruises, Cuts, Insect-Bites, Lung-Fever, Distemper, Sprained or Swollen Joints and Ligaments.
Claims use since Jan. 1, 1917.

Ser. No. 125,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MALLORY HUNT TAYLOR, JUNIOR, Macon, Ga. Filed Dec. 2, 1919.

Aspatabs

Particular description of goods.—A Medicinal Preparation for Headache, Toothache, Backache, Earache, Achy Joints, Chills, Colds, Fever, Neuritis, Rheumatism, and Lumbago.
Claims use since Sept. 13, 1919.

Ser. No. 125,556½. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MICHIGAN SERVICE CORPORATION, Jackson, Mich. Filed Dec. 3, 1919.



Particular description of goods.—Coal-Burning Heaters and Furnaces.
Claims use since Nov. 15, 1919.

Ser. No. 125,590. (CLASS 39. CLOTHING.) WISCONSIN-PILOT GLOVE COMPANY, Milwaukee, Wis. Filed Dec. 4, 1919.

PILOT

Particular description of goods.—Leather and Cloth Gloves and Leather and Cloth Mittens.
Claims use since Jan. 20, 1914.

Ser. No. 125,594. (CLASS 37. PAPER AND STATIONERY.) AMERICAN PAPETERIE COMPANY, Albany, N. Y. Filed Dec. 5, 1919.

Kraftlawn

Particular description of goods.—Mailing and Correspondence Envelops, Writing-Papers, and Writing-Tablets.
Claims use since Jan. 22, 1915.

Ser. No. 125,627. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH J. PHILLIPS, Brooklyn, N. Y. Filed Dec. 5, 1919.

ADSCOLA

Particular description of goods.—Tooth-Paste.
Claims use since Nov. 18, 1919.

Ser. No. 125,630. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SANAHO SPECIALTY COMPANY, Phoenix, Ariz. Filed Dec. 5, 1919.

PRINCESS

Particular description of goods.—Napkin-Holders Commercially Known as Sanitary Belts.
Claims use since the 22d day of November, 1919.

Ser. No. 125,633. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GEORGE W. STEWART, New York, N. Y. Filed Dec. 5, 1919.

JAZ-FLUTROMBONE

Particular description of goods.—A Novelty Wind Instrument.
Claims use since Nov. 20, 1919.

Ser. No. 125,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AUSTEN COLOGNE COMPANY, New York, N. Y. Filed Dec. 6, 1919.

Sanabreth

Particular description of goods.—Mouth-Wash.
Claims use since Jan. 1, 1919.

Ser. No. 125,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORGENSTERN & COMPANY, New York, N. Y. Filed Dec. 6, 1919.

CINOPHEN

Particular description of goods.—Phenylcinchoninic Acid.
Claims use since Sept. 22, 1917.

Ser. No. 125,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Dec. 6, 1919.

NEKO

Particular description of goods.—A Germicide, Disinfectant, Antiseptic, and Deodorant.
Claims use since shortly prior to Jan. 1, 1914.

Ser, No. 125,678. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE ACME PHONOGRAPH COMPANY OF KANSAS CITY, Kansas City, Mo. Filed Dec. 8, 1919.

FLO-TONE

Particular description of goods.—Phonographs and Phonograph-Records.
Claims use since Nov. 15, 1919.

Ser. No. 125,716. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ROBERT G. MITCHELL, Mount Vernon, N. Y. Filed Dec. 8, 1919.

RADIO

Particular description of goods.—Phonographs, Talking-Machines, and Sound-Boxes and Needles Therefor.
Claims use since November, 1919.

Ser. No. 125,721. (CLASS 37. PAPER AND STATIONERY.) OSBORN PAPER COMPANY, Marion, Ind. Filed Dec. 8, 1919.

MASTERPIECE

Particular description of goods.—Writing and Printing Papers and Writing-Tablets.
Claims use since August, 1912.

Ser. No. 125,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZIN MFG. COMPANY, Kansas City, Mo. Filed Dec. 9, 1919.

Bing

Particular description of goods.—Insecticides.
Claims use since about Oct. 8, 1919.

Ser. No. 125,773. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CONTINENTAL SEED COMPANY, Chicago, Ill. Filed Dec. 10, 1919.

BRAND NU BRAND

No claim being made for the word "Brand" except in connection with the mark shown.
Particular description of goods.—Grass and Field Seeds.
Claims use since Nov. 29, 1919.

Ser. No. 125,789. (CLASS 12. CONSTRUCTION MATERIALS.) THE MOWBRAY & ROBINSON COMPANY, Wilmington, Del., and Cincinnati, Ohio. Filed Dec. 10, 1919.

MRCO

Particular description of goods.—Lumber and Hardwood Flooring.
Claims use since Oct. 1, 1916.

Ser. No. 125,810. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN R. THOMPSON CO., Chicago, Ill. Filed Dec. 10, 1919.



The lines correspond to those on the specimens and are for shading only, no claim being made to the word "Quality" apart from the mark shown.
Particular description of goods.—Crab-Apple Jelly, Plum Jam, Canned Corn, Prepared Mustard, Catsup, Pepper, Vinegar, Salad-Oil, Lemon Extract, Tea and Coffee, Corn-Starch, and Cocoanut.
Claims use since Nov. 1, 1919.

Ser. No. 125,815. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EMIL WIEDERHOLD & BRO., Columbus, Ohio. Filed Dec. 10, 1919.

"Wiedie"

Particular description of goods.—A Piano and Automobile Polish.
Claims use since Feb. 1, 1919.

Ser. No. 125,838. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAND UNION TEA CO., Brooklyn, N. Y. Filed Dec. 11, 1919.

GRAND UNION

Particular description of goods.—Candy.
Claims use since about Aug. 1, 1919.

Ser. No. 125,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROY PAULEY, Schenectady, N. Y. Filed Dec. 11, 1919.

Complection

Particular description of goods.—Candy.
Claims use since Nov. 26, 1919.

Ser. No. 125,866. (CLASS 39. CLOTHING.) LEVI STRAUSS & CO., San Francisco, Calif. Filed Dec. 11, 1919.

Buddy

Particular description of goods.—Clothing—Namely Boys' Blouses; Boys' Dress, Negligée, and Work Shirts; Boys' Knickerbocker Pants, and Boys' Coats.
Claims use since Nov. 14, 1919.

Ser. No. 125,948. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. C. DORSETT, Macon Ga. Filed Dec. 13, 1919.

BAK'A'CAKE

Particular description of goods.—Cake-Flour.
Claims use since Feb. 6, 1919.

Ser. No. 125,950. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE DON-O-LAC CO., INC., Rochester, N. Y. Filed Dec. 13, 1919.

DON-O-LAC

Particular description of goods.—A Prepared Liquid Varnish Resembling Shellac.
Claims use since Feb. 23, 1919.

Ser. No. 125,957. (CLASS 7. CORDAGE.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Dec. 13, 1919.

THE OK BRAND

No claim being made to the words "The" and "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Rope, Cord, Twine, and Binder-Twine, Said Goods Being of Sisal, Manila, or Hemp or Each of the Fibers Just Mentioned in Combinations with Paper.
Claims use since Nov. 1, 1919.

Ser. No. 125,964. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Dec. 13, 1919.

BLACK BEAUTY

Particular description of goods.—Rubber Water-Bags and Rubber Bottles.
Claims use since Jan. 1, 1918.

Ser. No. 125,966. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Dec. 13, 1919.

Newport Cord

No claim is made to the exclusive right to the use of the word "Cord" apart from the mark shown.
Particular description of goods.—Silk Piece Goods.
Claims use since July 28, 1919.

Ser. No. 125,980. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUFORD R. STONE, Reidsville, N. C. Filed Dec. 13, 1919.

AMPROCO

Particular description of goods.—Laxative Cold-Tablets, Cocoanut-Oil Shampoo, Iron, Rust, and Stain Remover.
Claims use since Oct. 29, 1919.

Ser. No. 125,984. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed Dec. 13, 1919.



No claim being made to the exclusive use of the words "Silk," "Cotton," and "Fabrics" apart from the mark as shown in the drawing.

Particular description of goods.—Silk and Cotton Piece Goods and Combinations of the Same.

Claims use since Nov. 1, 1919.

Ser. No. 125,987. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WILLIAMS, DAVIS, BROOKS & HINCHMAN SONS, Detroit, Mich. Filed Dec. 13, 1919.

MIDCO

Particular description of goods.—Toothbrushes.

Claims use since the 1st day of August, 1919.

Ser. No. 126,002. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) OLIVER M. BURTON, Chicago, Ill. Filed Dec. 15, 1919.

GO!

Particular description of goods.—Toys—Namely, Vehicles for Children and Children's Blocks.

Claims use since Nov. 26, 1919.

Ser. No. 126,013. (CLASS 39. CLOTHING.) THE DUTTENHOFER-STEVENS CO., Cincinnati, Ohio. Filed Dec. 15, 1919.



The picture being fanciful. No claim is made to exclusive use of the words "For Women Who Care" apart from the form shown in the drawing.

Particular description of goods.—Women's High and Low Shoes Made of Leather and Cloth.

Claims use since Sept. 25, 1919.

Ser. No. 126,017. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) FRANK M. FOX & CO., Saegertown, Pa. Filed Dec. 15, 1919.



Particular description of goods.—Carbonated Laxative.

Claims use since Jan. 1, 1910.

Ser. No. 126,019. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERCY GRAHAM, Chicago, Ill. Filed Dec. 15, 1919. Under ten-year proviso.

Graham
SKIN
PURE

Particular description of goods.—Skin-Astringent.

Claims use since Jan. 1, 1893.

Ser. No. 126,026. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. HARROD'S STORES, LIMITED, London, England. Filed Dec. 15, 1919.

ORIANGLO

Particular description of goods.—Carpets.

Claims use since the 1st day of May, 1919.

Ser. No. 126,034. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMO CO., Chicago, Ill. Filed Dec. 15, 1919.

HERMO

Particular description of goods.—Toilet Preparations—Namely, Liquid Rouge, Nail-Polish, Face-Powder, Complexion-Balm for Treatment of Skin, Shampoo Preparation, Almond Cream for Treatment of the Skin, and Hair-Dressing to Give Luster to the Hair.

Claims use since Oct. 1, 1916.

Ser. No. 126,043. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JEROME METZLER, New York, N. Y. Filed Dec. 15, 1919.

"Vel-lustre"

Particular description of goods.—Silks, Satins, Velvets, Broadcloths, Serge in the Piece.

Claims use since Dec. 1, 1919.

Ser. No. 126,052. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE NATIONAL SHOE SERVICE CO., Elyria, Ohio. Filed Dec. 15, 1919.

S·O·S
SHINE OF SHINES

No claim is made to exclusive use of the words "Shine of Shines" apart from the mark shown in the drawing.

Particular description of goods.—Liquid Shoe-Dressing, Liquid Shoe-Cleaner, and Shoe-Polish.

Claims use since July 14, 1919.

Ser. No. 126,065. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. RUPERT COMPANY INC., Portland, Oreg. Filed Dec. 15, 1919.



Particular description of goods.—Canned Fish—Namely, Canned Salmon; Canned Fruits—Canned Loganberries and Canned Strawberries; Canned Vegetables—Canned Beets.

Claims use since Nov. 1, 1918.

Ser. No. 126,080. (CLASS 39. CLOTHING.) ANDREW ALPHONS WUEST, Cincinnati, Ohio. Filed Dec. 15, 1919.



Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since Oct. 4, 1919.

Ser. No. 126,099. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. CUSHING CO., Fitchburg, Mass. Filed Dec. 16, 1919.



Particular description of goods.—Poultry and Stock Feeds—Namely, Wheat Feed, Stock Feed, and Balanced Ration.

Claims use since June, 1919.

Ser. No. 126,135. (CLASS 2. RECEPTACLES.) MILWAUKEE BAG COMPANY, Milwaukee, Wis. Filed Dec. 16, 1919.



Particular description of goods.—Bags for Use as Receptacles.

Claims use since Dec. 4, 1919.

Ser. No. 126,163. (CLASS 39. CLOTHING.) MAX BERKWITS, New York, N. Y. Filed Dec. 17, 1919.

LEATHAMAC

Particular description of goods.—Coats for Young Boys and Girls.

Claims use since Oct. 1, 1919.

Ser. No. 126,176. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. A. FINK CO., New York, N. Y. Filed Dec. 17, 1919.



No claim being made to the words "Good and Square" apart from the mark shown in the drawing.

Particular description of goods.—Brooms, Brushes, and Mops.

Claims use since January, 1909.

Ser. No. 126,178. (CLASS 12. CONSTRUCTION MATERIALS.) GRANITEX COMPANY, INC., New York, N. Y. Filed Dec. 17, 1919.

Adamantex

Particular description of goods.—A Preparation for Hardening and Waterproofing Cement Mixtures.
Claims use since Sept. 15, 1919.

Ser. No. 126,180. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEMP & CO. (CORP.), St. Louis, Mo. Filed Dec. 17, 1919.

HEMLOCK

Particular description of goods.—Stovepipes and Stovepipe-Elbows.
Claims use since about May 1, 1915.

Ser. No. 126,193. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NEW BRITAIN MACHINE COMPANY, New Britain, Conn. Filed Dec. 17, 1919.

"NEW BRITAIN" NB NONE BETTER

The terms "New Britain" and "None Better" appearing in the mark are respectively disclaimed apart from the mark as shown by the drawing.
Particular description of goods.—Screw-Machines and Chucking-Machines.
Claims use since the first part of July, 1919.

Ser. No. 126,197. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RYAN-EASTMAN CO., Cedar Rapids, Iowa. Filed Dec. 17, 1919.



Particular description of goods.—Carbon-Removers.
Claims use since on or about Sept. 16, 1919.

Ser. No. 126,213. (CLASS 37. PAPER AND STATIONERY.) ABRAHAM HARRIS, New York, N. Y. Filed Dec. 18, 1919.

RELIABLE
NEW YORK · U.S.A. · RELCO REG. U.S. PAT. OFF.

The words "Reliable, New York, U. S. A., Reg. U. S. Pat. Off." are hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Fountain-Pens.
Claims use since Feb. 1, 1915.

Ser. No. 126,216. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEMP & CO. (CORP.), St. Louis, Mo. Filed Dec. 18, 1919.

BATTLE AX

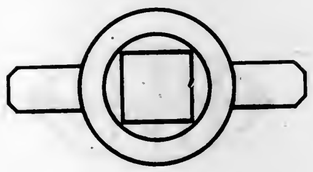
Particular description of goods.—Stovepipes and Stovepipe-Elbows.
Claims use since about the 1st day of December, 1899.

Ser. No. 126,245. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DENTAL PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 19, 1919.

Conducto

Particular description of goods.—Hypodermic Syringes, Hypodermic Needles, Instruments Used in the Production of Intra-Osseous Anesthesia, Surgical Forceps; Instrument-Sterilizers—*i. e.*, Containers Adapted to Hold Instruments While the Same are Being Serilized; Extensions for Hypodermic Syringes, Adapters for Hypodermic Syringes, and Dissolving-Cups for the Preparation of Anesthetic Solutions.
Claims use since Nov. 1, 1918.

Ser. No. 126,251. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEMP & CO. (CORP.), St. Louis, Mo. Filed Dec. 19, 1919.



Particular description of goods.—Stovepipe and Stovepipe-Elbows.
Claims use since about the 1st day of December, 1914.

Ser. No. 126,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPIROCIDE CORPORATION, New York, N. Y. Filed Dec. 20, 1919.

MERCUPRESSEN

Particular description of goods.—Antiseptics.
Claims use since Nov. 15, 1919.

Ser. No. 126,292. (CLASS 43. THREAD AND YARN.) SUMMIT THREAD COMPANY, East Hampton, Conn. Filed Dec. 20, 1919.

SERO-FIL

Particular description of goods.—Mercerized Cotton Thread or Yarn.
Claims use since on or about A. D., 1904.

Ser. No. 126,294. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE UNITED STATES AIR COMPRESSOR CO., Cleveland, Ohio. Filed Dec. 20, 1919.

Usaco

Particular description of goods.—Unitary Air-Compressor Equipments and Parts Thereof.
Claims use since July 1, 1919.

Ser. No. 126,297. (CLASS 12. CONSTRUCTION MATERIALS.) WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn. Filed Dec. 20, 1919.



Particular description of goods.—Lumber, Rough or Dressed or Run to Any Pattern—Namely, Sawmill, Planing-Mill, and Sash, Door, and Millwork; Factory Products—Namely, Timbers, Railway-Ties, Dimension Material, Planks, Boards, Rough or Dressed or Run to Any Pattern, Finishing-Lumber, Framing-Lumber, Exterior or Interior Trim, Beams, Siding and Shakes, Shingles, Moldings, Lath, Flooring, Sash, Doors, Frames, Posts, Poles and Piling.
Claims use since Mar. 28, 1919.

Ser. No. 126,302. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BURY COMPRESSOR COMPANY, Erie, Pa. Filed Dec. 22, 1919.

BURY'S UNIVERSAL PYRAMID BOX PLATE VALVE
DURABLE AS THE PYRAMIDS SILENT AS THE SPHINX

Applicant hereby disclaims the words "Bury," "Box Plate Valve," "Durable as the Pyramids," and "Silent as the Sphinx" apart from the mark as shown.
Particular description of goods.—Compressor-Valves.
Claims use since Sept. 1, 1919.

Ser. No. 126,317. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 22, 1919.

A&P

Particular description of goods.—Baking-Powder, Soda, Cream of Tartar, Ammonia, and Liquid Blue.
Claims use since about the month of August, 1885.

Ser. No. 126,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 22, 1919.

RED FRONT

Particular description of goods.—Baking-Powder.
Claims use since about the early part of October, 1916.

Ser. No. 126,320. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN GOLDMAN, Philadelphia, Pa. Filed Dec. 22, 1919.



Particular description of goods.—Coloring for the Hair.
Claims use since about Dec. 13, 1919.

Ser. No. 126,328. (CLASS 39. CLOTHING.) MANNIE SOLOMON COMPANY, New York. N. Y. Filed Dec. 22, 1919.

The Week-End FROCK

No claim is made to the word "Frock" apart from the mark shown on the drawing.

Particular description of goods.—Ladies' and Misses' Dresses.

Claims use since July 1, 1919.

Ser. No. 126,331. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PANAFIEU PERE ET FILS, Paris, France. Filed Dec. 22, 1919.

MASCARO

Particular description of goods.—A Hair-Coloring for the Eyebrows and Skin.

Claims use since about the year 1870.

Ser. No. 126,346. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER CO., Holyoke, Mass. Filed Dec. 23, 1919.

SHADO-CRAFT

Particular description of goods.—Printing and Writing Paper.

Claims use since on or about June 1, 1919.

Ser. No. 126,347. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER CO., Holyoke, Mass. Filed Dec. 23, 1919.

AUTOGRAPH KRAFT

Particular description of goods.—Printing and Writing Paper.

Claims use since on or about Oct. 25, 1919.

Ser. No. 126,363. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSCAR D. GRAWCOCK, Churubusco, Ind., assignor to The Nu-Tone Company, Churubusco, Ind., a Corporation of Indiana. Filed Dec. 23, 1919.

NU-TONE

Particular description of goods.—Hog-Tonic.

Claims use since Sept. 26, 1919.

Ser. No. 126,393. (CLASS 39. CLOTHING.) FRED D. PALMER, New York, N. Y. Filed Dec. 23, 1919.

KNIT

No claim being made to the word "Knit" apart from the mark shown on the drawing.

Particular description of goods.—Neckties and Cravats.

Claims use since Jan. 1, 1912.

Ser. No. 126,396. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) B. SHONINGER CO., New Haven, Conn. Filed Dec. 23, 1919.

PHELPS

Particular description of goods.—Pianos.

Claims use since June 18, 1919.

Ser. No. 126,414. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Dec. 24, 1919.

POINSETTA

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.

Claims use since Dec. 1, 1919.

Ser. No. 126,415. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Dec. 24, 1919.

ELECTRA

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.

Claims use since Dec. 18, 1919.

Ser. No. 126,424. (CLASS 17. TOBACCO PRODUCTS.) PROGRESSIVE CIGAR CORPORATION OF PHILADELPHIA, Philadelphia, Pa. Filed Dec. 24, 1919.



Particular description of goods.—Cigars.

Claims use since Nov. 12, 1919.

Ser. No. 126,434. (CLASS 37. PAPER AND STATIONERY.) ZELLERBACH PAPER COMPANY, San Francisco, Calif. Filed Dec. 24, 1919. Under ten-year proviso.

PAPER

No claim being made to the word "Paper" apart from the mark as shown.

Particular description of goods.—Printing-Paper, Writing-Paper, Wrapping-Paper, Strawboards, Shipping-Tags, Mailing-Envelops, and Toilet-Paper.

Claims use on printing-paper, writing-paper, and wrapping-paper since the year 1889, and on strawboards, shipping-tags, and envelops since the year 1897, and by sa'd corporation on toilet-paper since the year 1918.

Ser. No. 126,436. (CLASS 37. PAPER AND STATIONERY.) ANGIER MECHANICAL LABORATORIES, Framingham, Mass. Filed Dec. 26, 1919.

GRIZZLYBEAR

The word "Grizzlybear."

Particular description of goods.—A Duplex Crinkled or Craped Paper for Wrapping Tires and other Articles and Comprising Two Thicknesses of Paper with Interposed Adhesive.

Claims use since Dec. 8, 1919.

Ser. No. 126,442. (CLASS 39. CLOTHING.) DAVID BAIRD AND SON, Louisville, Ky. Filed Dec. 26, 1919.

Goodgo

Particular description of goods.—Women's, Misses', and Children's Trimmed Hats.

Claims use since about Dec. 1, 1914.

Ser. No. 126,469. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GENERAL AMERICAN TANK CAR CORPORATION, Chicago, Ill. Filed Dec. 26, 1919.

GATX

Particular description of goods.—Tank-Cars.

Claims use since on or about the 1st day of January, 1902.

Ser. No. 126,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHRISTIAN P. GIRTEN, Chicago, Ill. Filed Dec. 26, 1919.

PYOR-SEP-TINE

Particular description of goods.—A Medical Compound for Gum Diseases.

Claims use since Nov. 25, 1919.

Ser. No. 126,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTAV KLEMPERER, New York, N. Y. Filed Dec. 26, 1919.



Particular description of goods.—A Preparation for Use in the Prevention and Treatment of Infectious Diseases.

Claims use since about Dec. 10, 1919.

Ser. No. 126,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROKER PACKING CO., San Francisco, Calif. Filed Dec. 27, 1919.

Woodside

Particular description of goods.—Canned Fruits—Namely, Canned Pears and Canned Apricots, and Canned Vegetables—Namely, Canned String-Beans and Canned Tomatoes; Jams—Namely, Plum Jam and Loganberry Jam.

Claims use since Aug. 1, 1919.

Ser. No. 126,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Dec. 27, 1919.

IDEAL

Particular description of goods.—Candy, Confections, Cocoas, Chocolate, and Chocolate Products—Namely,

Almond Bars, Almond Chocolate, Unsweetened Chocolate; Nut-Lunch, (Milk-Chocolate Mixed with Peanuts;) Milk-Chocolate, Chocolate Pieces in the Conventional Forms of Animals, Cigars, and Batons, Cakes of Chocolate for Vending-Machines, and Chocolate for Coatings and Liquors.

Claims use since about the month of August, 1918.

Ser. No. 126,524. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Dec. 27, 1919.

IDEAL

Particular description of goods.—Candy, Confections, Cocoas, Chocolate, and Chocolate Products—Namely, Almond Bars, Almond Chocolate, Unsweetened Chocolate; Nut-Lunch, (Milk-Chocolate Mixed with Peanuts;) Milk-Chocolate, Chocolate Pieces in the Conventional Forms of Animals, Cigars, and Batons, Cakes of Chocolate for Vending-Machines, and Chocolate for Coatings and Liquors.

Claims use since the year 1900.

Ser. No. 126,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUSTO H. DE GOENAGA, Detroit, Mich. Filed Dec. 29, 1919.

PREE-MAE-RO PRIMERO

Particular description of goods.—Tooth-Paste.

Claims use since Dec. 12, 1919.

Ser. No. 126,568. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Dec. 29, 1919.

MAJESTIC

Particular description of goods.—Hosiery.

Claims use since on or about Jan. 1, 1909.

Ser. No. 126,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES RALPH SPICER, Memphis, Tenn. Filed Dec. 29, 1919.

PELVO

Particular description of goods.—A Liquid Tonic and an Antiseptic Powder.

Claims use since Aug. 20, 1916.

Ser. No. 126,599. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TALCUM PUFF COMPANY, Brooklyn, N. Y. Filed Dec. 29, 1919.

MOON MIST

Consisting of the words "Moon Mist."

Particular description of goods.—Toilet Preparations—viz., Talcum Powder.

Claims use since Dec. 3, 1919.

Ser. No. 126,603. (CLASS 17. TOBACCO PRODUCTS.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed Dec. 29, 1919.



Particular description of goods.—Cigars.

Claims use since Jan. 1, 1912.

Ser. No. 126,608. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WARD LA FRANCE TRUCK CO., INC., Elmira, N. Y. Filed Dec. 29, 1919.

Ward LaFrance MOTOR TRUCKS

No claim is made to the exclusive use of the words "Motor Trucks" apart from the mark shown in the drawing.

Particular description of goods.—Motor-Trucks.

Claims use since Dec. 17, 1919.

Ser. No. 126,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. AMMEN CO. LTD., Alexandria, La. Filed Dec. 30, 1919.



No claim being made to the exclusive use of the words "Prickly Heat Baby Powder The Best Ever Made Once Tried Always Used Price 25 Cents" apart from the mark as shown in the drawing.

Particular description of goods.—Baby-Powder.

Claims use since Aug. 12, 1914.

Ser. No. 126,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 30, 1919.

APOCACTIN

Particular description of goods.—A Liquid Heart-Tonic Compound Containing Apocynum, Cactus, and other Drugs.

Claims use since Nov. 10, 1919.

Ser. No. 126,649. (CLASS 17. TOBACCO PRODUCTS.) RIZOUK D. MESSAYEH, New York, N. Y. Filed Dec. 30, 1919.

IRAQ

Particular description of goods.—Cigarettes.

Claims use since July 29, 1919.

Ser. No. 126,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES D. STOWE, Asheville, N. C. Filed Dec. 30, 1919.

LIV-O-KIDS

Particular description of goods.—A Medicine to be Used in the Treatment of the Liver and Kidneys.

Claims use since June 15, 1919.

Ser. No. 126,667. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 29, 1919.

Iona

Particular description of goods.—Corn, Concentrated Tomatoes, Tomatoes, Pears, Beets, Sauer-Kraut, Peaches, Sliced Peaches, Succotash, Lima Beans, Beans and Pork, and String-Beans, All the Articles Mentioned Being Cooked and Canned.

Claims use since the year 1900.

Ser. No. 126,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 29, 1919.



Particular description of goods.—Corn, Concentrated Tomatoes, Tomatoes, Pears, Beets, Sauer-Kraut, Peaches, Sliced Peaches, Succotash, Lima-Beans, Beans and Pork, and String-Beans, All the Articles Mentioned Being Cooked and Canned.

Claims use since the year 1900.

Ser. No. 126,683. (CLASS 2. RECEPTACLES.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Corn-Bins, Feed-Bins, and Grain-Bins, Hog-Feeders, Troughs, and Silo-Chutes.

Claims use since Jan. 1, 1919.

Ser. No. 126,694. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Dec. 31, 1919.

Cadum

Particular description of goods.—Shampoo Preparation, Cold-Cream, Pomade; a Remedy for the Alleviation of Rheumatism, Lumbago, Neuralgia, Pains in Back, Sore Throat, Cold in Chest, Swellings, Inflammation, Sore Muscles, Headache; Talcum Powder.

Claims use since October, 1909.

Ser. No. 126,696. (CLASS 39. CLOTHING.) ROBERT REIS & CO., New York, N. Y. Filed Dec. 31, 1919.

Lavender Label

Particular description of goods.—Knitted and Textile Underwear and Hosiery.

Claims use since about Feb. 1, 1915.

Ser. No. 126,703. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPECIAL CHEMICALS COMPANY, Highland Park, Ill. Filed Dec. 31, 1919.

SPĒCO

Particular description of goods. — Sal-Ammoniac and Soldering Fluid.
Claims use since on or about the 15th day of April, 1919.

Ser. No. 126,731. (CLASS 39. CLOTHING.) JOHNSON-BOSTWICK & CO., Minneapolis, Minn. Filed Jan. 2, 1920.

BOSTWICK

Particular description of goods.—Coats, Outer Vests, and Work-Shirts for Men.
Claims use since on or about July 1, 1919.

Ser. No. 127,740. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHARLES P. SCHAEFFER, Reading, Pa. Filed Jan. 29, 1920.

THE SCHAEFFER LACE

Charles Schaeffer

The signature appearing on the mark being the signature of the applicant, and the words "The Schaeffer Lace" being disclaimed apart from the mark as shown, but without waiver of any common-law right.
Particular description of goods.—Shoe-Laces.
Claims use since about January, 1918.

Ser. No. 126,748. (CLASS 37. PAPER AND STATIONERY.) M. & F. SCHLOSSER, New York, N. Y. Filed Jan. 2, 1920

M AND S F

Particular description of goods.—Writing-Paper, Wrapping-Paper, Cardboard, and Paper Mailing-Envelops.
Claims use since about July 1, 1919.

Ser. No. 126,816. (CLASS 39. CLOTHING.) NEUSTADTER BROTHERS, San Francisco, Calif. Filed Jan. 5, 1920.

PARK MILL
ONE-BUTTON JIFFY SUIT

No claim being made to the words "One-Button Suit" apart from the mark shown on the drawing.
Particular description of goods.—Woven and Knitted Union-Suits for Men, Women, and Children.
Claims use since Oct. 1, 1919.

Ser. No. 126,842. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Jan. 6, 1920.

Queen Quality
Jersey Cloth

No registration rights being claimed for the words "Jersey Cloth" apart from the mark shown in the drawing.
Particular description of goods.—Ladies' Knitted Dress Goods Known as Jersey Cloth in the Piece.
Claims use since Nov. 1, 1919.

Ser. No. 126,851. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CRARY BROKERAGE COMPANY, Waukesha, Wis. Filed Jan. 6, 1920.

SUNDAY DINNER BRAND

No claim is made to the word "Brand" apart from mark shown in drawing.
Particular description of goods.—Canned Vegetables—Namely, Peas and Corn.
Claims use since July 19, 1912.

Ser. No. 126,860. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HANDLEY PAGE LIMITED, London, England. Filed Jan. 6, 1920.

HP

Particular description of goods.—Aeroplane Covers and Tents.
Claims use since Sept. 13, 1918.

Ser. No. 126,871. (CLASS 39. CLOTHING.) JOSEPH NEMSER, New York, N. Y. Filed Jan. 6, 1920.

Nemser

Particular description of goods.—Gowns.
Claims use since the 14th day of May, 1918.

Ser. No. 126,894. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALFRED M. BARBE, New York, N. Y. Filed Jan. 7, 1920.

Darvelette

Particular description of goods.—Woven, Printed, and Dyed Drapery Fabrics. The Materials from Which the Said Woven and Printed Drapery Fabrics are Made are Woven and Printed Cotton Goods and are Made Up in Pieces of Fifty Yards Each.
Claims use since Jan. 1, 1917.

Ser. No. 126,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LADY JEFFERSON CANDY COMPANY, Birmingham, Ala. Filed Jan. 8, 1920.

Lady Jefferson

Particular description of goods.—Candies.
Claims use since Dec. 22, 1919.

Ser. No. 126,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANKLIN BAKER COMPANY, Philadelphia, Pa. Filed Jan. 9, 1920.

COCO-NUTLETS

Which consists of the word "Coco-Nutlets."
Particular description of goods.—Packaged Grated and Shredded Cocoanut.
Claims use since about Dec. 21, 1919.

Ser. No. 126,991. (CLASS 15. OILS AND GREASES.) H. EARL CLACK COMPANY, Havre, Mont. Filed Jan. 10, 1920.

HI-LITE

Particular description of goods.—Kerosene.
Claims use since Apr. 1, 1919.

Ser. No. 127,017. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH & CLARK COMPANY, Wilkes-Barre and Scranton, Pa. Filed Jan. 10, 1920.

Kredo

Consists of the word "Kredo."
Particular description of goods.—Instantaneous Cocoa in Powdered Form Made of Sugar, Milk, Chocolate, or Cocoa.
Claims use since about July 26, 1918.

Ser. No. 127,023. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME PACKING COMPANY, Chicago, Ill. Filed Jan. 12, 1920.

Red Crown

The trade-mark consisting of the words "Red Crown."
Particular description of goods.—Canned Pork and Beans, Apple-Butter, Jams, Jellies, and Fruit Preserves.
Claims use since Aug. 8, 1919.

Ser. No. 127,034. (CLASS 12. CONSTRUCTION MATERIALS.) THE CLEVELAND-AKRON BAG COMPANY, Cleveland, Ohio. Filed Jan. 12, 1920.

CABCO

Particular description of goods.—Composition Strips and Sheets for Building and Roofing Purposes.
Claims use since on or about February, 1919.

Ser. No. 127,036. (CLASS 39. CLOTHING.) COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Jan. 12, 1920.

DOMUS SPECIALITANS

WINTERFIELD

Particular description of goods.—Men's and Children's Outer Garments, Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, Smoking-Jackets, Automobile-Coats, and Bath-Wraps, and Women's and Children's Outer Garments, Consisting of Coats, Bath-Wraps, and Mackinaws.
Claims use since Nov. 18, 1918.

Ser. No. 127,046. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) ALBAUGH-DOVER COMPANY, Chicago, Ill. Filed Jan. 12, 1920.



Particular description of goods.—Laundry-Washing Machines.
Claims use since on or about Nov. 1, 1919.

Ser. No. 127,098. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHAS. H. REED, New York, N. Y. Filed Jan. 13, 1920.



The lining in the drawing representing red.
Particular description of goods.—Bunting.
Claims use since Apr. 28, 1919.

Ser. No. 127,121. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MAUDE SINCLAIR GEORGE, St. Louis, Mo. Filed Jan. 14, 1920.

Climax

"Climax."
Particular description of goods.—Armpit Dress-Shields and Diaper-Supporters.
Claims use since January, 1912.

Ser. No. 127,160. (CLASS 39. CLOTHING.) THE VAN ORDEN COMPANY, Newark, N. J. Filed Jan. 14, 1920.

FLORESS.

Particular description of goods.—Corsets.
Claims use since Jan. 1, 1919.

Ser. No. 127,161. (CLASS 39. CLOTHING.) THE VAN ORDEN COMPANY, Newark, N. J. Filed Jan. 14, 1920.



Particular description of goods.—Corsets.
Claims use since Jan. 1, 1919.

Ser. No. 127,162. (CLASS 39. CLOTHING.) THE VAN ORDEN COMPANY, Newark, N. J. Filed Jan. 14, 1920.

Mavis

Particular description of goods.—Corsets.
Claims use since Jan. 1, 1919.

Ser. No. 127,170. (CLASS 39. CLOTHING.) CISCO, INC., New York, N. Y. Filed Jan. 15, 1920.

CISCO
INCORPORATED

The word "Incorporated" is disclaimed apart from the mark shown on the accompanying drawing.
Particular description of goods.—Hosiery of Silk, Cotton, Lisle, and Combinations of the Same; Knitted Neckties of Silk, Fiber, Cotton, and Combinations of the Same; Knitted Mufflers of Silk, Fiber, Cotton, and Combinations of the Same; Wash Neckties of Silk, Fiber, Cotton, and Combinations of the Same; Mufflers of Silk, Fiber, Cotton, and Combinations of the same.
Claims use since Aug. 6, 1919.

Ser. No. 127,186. (CLASS 39. CLOTHING.) RODGERS HOSIERY COMPANY, INCORPORATED, Philadelphia, Pa. Filed Jan. 15, 1920.

LADY LI

Particular description of goods.—Hosiery.
Claims use since about May, 1919.

Ser. No. 127,192. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURER'S, INC., Chicago, Ill. Filed Jan. 15, 1920.



Particular description of goods.—Horse Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.



Particular description of goods.—Scratch Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,195. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.



Particular description of goods.—Scratch Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,203. (CLASS 39. CLOTHING.) WHITMORE-TIERRELL SHOE CORPORATION, Weymouth, Mass. Filed Jan. 15, 1920.



Particular description of goods.—Leather Boots and Shoes.
Claims use since Jan. 5, 1920.

Ser. No. 127,204. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed Jan. 15, 1920.



Particular description of goods.—Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Envelops for Correspondence, Writing-Tablets, Pencil-Tablets, Drawing-Tablets, Spelling-Tablets, and Blank Books.
Claims use since Feb. 10, 1914.

Ser. No. 127,206. (CLASS 39. CLOTHING.) ADMIRATION HOSIERY CO., INC., New York, N. Y. Filed Jan. 16, 1920.

ADMIRATION

Consisting of the word "Admiration."
Particular description of goods.—Hosiery.
Claims use since Nov. 3, 1919.

Ser. No. 127,226. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Q. R. S. COMPANY, Chicago, Ill. Filed Jan. 16, 1920.

Q·R·S

Particular description of goods.—Talking-Machine Records.
Claims use since Nov. 3, 1919.

Ser. No. 127,229. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. G. LEOFFLER, JR., Washington, D. C. Filed Jan. 16, 1920.

DONO

Particular description of goods.—Doughnuts.
Claims use since Dec. 1, 1919.

Ser. No. 127,244. (CLASS 39. CLOTHING.) CLARA V. HAVENS, New York, N. Y. Filed Jan. 17, 1920.

Symply-Tye

Particular description of goods.—Brassières.
Claims use since about Nov. 1, 1919.

Ser. No. 127,247. (CLASS 39. CLOTHING.) LOUIS KATZMAN, INC., New York, N. Y. Filed Jan. 17, 1920.

Cordica

Consisting of the word "Cordica."
Particular description of goods.—Shawl-Coat.
Claims use since Dec. 4, 1919.

Ser. No. 127,249. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. KRAFT & BROS. CO., Chicago, Ill. Filed Jan. 17, 1920.



Particular description of goods.—Cheese of Various Kinds or Types, Including Pimento, Roquefort, Camembert, Kraft, Swiss, Rarebit, Limburger, and Chilli.
Claims use since on or about the 1st day of May, 1912.

Ser. No. 127,263. (CLASS 15. OILS AND GREASES.) SAFETY NIGHT LIGHT COMPANY, Brooklyn, N. Y. Filed Jan. 17, 1920.

Adoration

Particular description of goods.—Candles.
Claims use since some time during the month of September, 1919.

Ser. No. 127,269. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE TAYLOR-FRIEDSAM COMPANY, Paterson, N. J., and New York, N. Y. Filed Jan. 17, 1920.



Particular description of goods.—Silk Ribbons in the Piece.
Claims use since Nov. 26, 1915.

Ser. No. 127,283. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE DELITE MANUFACTURING CO., Bryan, Ohio. Filed Jan. 19, 1920.

DELITE

Particular description of goods.—Clothes-Washing Machines.
Claims use since Apr. 1, 1919.

Ser. No. 127,336. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THEODORE L. SHAW, Boston, Mass. Filed Jan. 19, 1920.

GREY GULL

Particular description of goods.—Sound-Records.
Claims use since on or about Oct. 3, 1919.

Ser. No. 127,348. (CLASS 7. CORDAGE.) B. F. AVERY & SONS, Louisville, Ky. Filed Jan. 20, 1920.

CHAMPION

Particular description of goods.—Non-Metallic Ropes, Fiber Cords, Twine, and Binder-Twine.
Claims use since Jan. 13, 1903.

Ser. No. 127,385. (CLASS 39. CLOTHING.) MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y. Filed Jan. 20, 1920.

SKIBO

Particular description of goods.—Knit Gloves.
Claims use since June, 1919.

Ser. No. 127,425. (CLASS 39. CLOTHING.) JAMES C. DARST, Portsmouth, Va. Filed Jan. 21, 1920.



No claim is made for the word "Darst" or "Pocket" apart from the mark shown on the drawing.
Particular description of goods.—Pockets for Garments.
Claims use since on or about Dec. 8, 1919.

Ser. No. 127,431. (CLASS 15. OILS AND GREASES.) KEYSTONE OIL & MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 21, 1920.

SULPHO

Particular description of goods.—A Screw-Cutting Oil.
Claims use since Aug. 9, 1919.

Ser. No. 127,488. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) REICHMAN & FAUST, New York, N. Y. Filed Jan. 22, 1920.

NAIAD



Particular description of goods.—Composition Hair-Pins, Wire Hairpins, Hair-Fasteners, Hair-Wavers, Safety-Pins, and Toilet-Pins.
Claims use since April, 1915.

Ser. No. 127,531. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMERICAN DAIRY SUPPLY COMPANY, Augusta, Me., and Washington, D. C. Filed Jan. 24, 1920.

CERTIFIED

Particular description of goods.—Paper-Material Disks for Closing Receptacles, Usually Known as Milk-Bottle Caps, and Closure-Disks.
Claims use since about Jan. 1, 1910.

Ser. No. 127,580. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) UNITED PHONOGRAPH CORPORATION, Omaha, Nebr. Filed Jan. 26, 1920.

Cathedral

Particular description of goods.—Phonographs.
Claims use since Oct. 1, 1919.

Ser. No. 127,593. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) KING TRAILER COMPANY, Ann Arbor, Mich. Filed Jan. 26, 1920.

King

Particular description of goods.—Semitrailers.
Claims use since the 30th day of November, A. D. 1916.

Ser. No. 127,601. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORMA CHOCOLATE COMPANY, INC., Brooklyn, N. Y. Filed Jan. 26, 1920.

Norma

Particular description of goods.—Chocolate.
Claims use since December, 1914.

Ser. No. 127,627. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN S. BIERHAUS, Vincennes, Ind. Filed Jan. 27, 1920.

Fort Sackville

EB AND SONS



EB AND SONS

Particular description of goods.—Table-Syrup.
Claims use since Jan. 13, 1920.

Ser. No. 127,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID G. EVANS COFFEE CO., St. Louis, Mo. Filed Jan. 27, 1920.

ANCHOR

Particular description of goods.—Coffee, Tea, Spices, Mustard, Salad-Oil, Peanut-Butter, Salad-Dressing, and Flavoring Extracts for Foods.
Claims use since about 1865.

Ser. No. 127,645. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Jan. 27, 1920.

HO-SAY

Particular description of goods.—Canned Fruits—Namely, Cherries, Apricots, Peaches, Pears, and Plums, and Canned Vegetable—Namely, Tomatoes.
Claims use since Aug. 1, 1919.

Ser. No. 127,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Jan. 27, 1920.

Calidad BRAND

Particular description of goods.—Canned Fruits—Namely, Apricots, Peaches, Pears, and Canned Vegetables—Namely, Tomatoes.
Claims use since Sept. 20, 1919.

Ser. No. 127,657. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) METAL & THERMIT CORPORATION, Chrome, N. J. Filed Jan. 27, 1920.

TUNGTABS

Particular description of goods.—Tungsten.
Claims use since Jan. 14, 1920.

Ser. No. 127,664. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL FRANCIS SKINNER, Omaha, Nebr. Filed Jan. 27, 1920.

KEYSTONE

Particular description of goods.—Macaroni, Spaghetti, and Noodles.
Claims use since Oct. 25, 1919.

Ser. No. 127,717. (CLASS 39. CLOTHING.) EVERETT KNITTING WORKS, Lebanon, N. H. Filed Jan. 29, 1920.

Lady Dartmouth

Particular description of goods.—Men's, Women's, and Children's Knitted Underwear, Both One and Two Piece.
Claims use since about Jan. 10, 1920.

Ser. No. 127,744. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VON BREMEN, ASCHE & CO., New York, N. Y. Filed Jan. 29, 1920.

NAVIGATOR

Particular description of goods.—Canned Fish, More Particularly Herring and Sardines.
Claims use since July, 1910.

Ser. No. 127,796. (CLASS 43. THREAD AND YARN.) CARVER-BEAVER YARN CO., INC., New York, N. Y. Filed Jan. 31, 1920.

"VER VER"

Particular description of goods.—Knitting-Yarn.
Claims use since July 1, 1918.

Ser. No. 127,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LESTER H. DAVIS, Lindsborg, Kans. Filed Jan. 31, 1920.

King Oscar

Particular description of goods.—Coffee.
Claims use since 1912.

Ser. No. 127,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920.

ROTUNDA

Particular description of goods.—Wheat-Flour.
Claims use since Apr. 18, 1919.

Ser. No. 127,812. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920.

MERMAID

Particular description of goods.—Wheat-Flour.
Claims use since Mar. 15, 1919.

Ser. No. 127,844. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE TROPICS CORPORATION, New York, N. Y. Filed Jan. 31, 1920.

TTC

Particular description of goods.—Leather Hides.
Claims use since Dec. 1, 1919.

Ser. No. 127,856. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FOWLER NAIL CO., Seymour, Conn. Filed Feb. 2, 1920.

MOLDOCHIL

Particular description of goods.—Molders' Nails Used in Metal-Foundries.
Claims use since on or about the 23d day of May, 1919.

Ser. No. 127,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAGE & SHAW, INC., Boston and Cambridge, Mass. Filed Feb. 2, 1920.

PAGE & SHAW

Particular description of goods.—Candy.
Claims use since 1887.

Ser. No. 127,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BROWN CHEMICAL CO., St. Louis, Mo. Filed Feb. 3, 1920.



BETTY BROWN

The picture being fanciful.
Particular description of goods.—Food Flavoring Creams and Nutmeg.
Claims use since Nov. 1, 1918.

Ser. No. 127,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROWN PACKING COMPANY, Los Angeles, Calif. Filed Feb. 3, 1920.

KROWNPAK BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Fresh Vegetables.
Claims use since Jan. 15, 1920.

Ser. No. 127,902. (CLASS 7. CORDAGE.) CHARLES C. DAVIS, Chicago, Ill. Filed Feb. 3, 1920.

WHITE STAR

Particular description of goods.—Clotheslines.
Claims use since May 12, 1919.

Ser. No. 127,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE E. C. HARLEY COMPANY, Dayton, Ohio. Filed Feb. 3, 1920.

COURIER

Particular description of goods.—Coffee.
Claims use since Jan. 15, 1920.

Ser. No. 127,915. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE E. C. HARLEY COMPANY, Dayton, Ohio. Filed Feb. 3, 1920.

MELLO

Particular description of goods.—Coffee.
Claims use since Jan. 15, 1920.

Ser. No. 127,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE E. C. HARLEY COMPANY, Dayton, Ohio. Filed Feb. 3, 1920.

EXPERT BLEND

No claim being made to the word "Blend" apart from the mark shown.
Particular description of goods.—Coffee.
Claims use since Jan. 15, 1920.

Ser. No. 127,935. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULER CHOCOLATE FACTORY, INC., Winona, Minn. Filed Feb. 3, 1920.

Minneowah

Particular description of goods.—Candy.
Claims use since 1912.

Ser. No. 127,940. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEARNS-HOLLINSHEAD CO., Portland, Oreg. Filed Feb. 3, 1920.

SnH Nifties

Particular description of goods.—Candies.
Claims use since Dec. 10, 1919.

Ser. No. 127,964. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMPIRE BAKERS SPECIALTY CO., New York, N. Y. Filed Feb. 4, 1920.

Reelegg

Particular description of goods.—Eggs in Powdered Form.
Claims use since Dec. 1, 1919.

Ser. No. 128,007. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 5, 1920.

PONDROSA

Particular description of goods.—Biscuit.
Claims use since Jan. 3, 1920.

Ser. No. 128,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 5, 1920.

VELVIA

Particular description of goods.—Biscuit.
Claims use since Jan. 30, 1920.

Ser. No. 128,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 5, 1920.

SOLARA

Particular description of goods.—Biscuit.
Claims use since Jan. 30, 1920.

Ser. No. 128,011. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 5, 1920.

TRITON

Particular description of goods.—Biscuit.
Claims use since as early as May 7, 1898.

Ser. No. 128,027. (CLASS 15. OILS AND GREASES.) SOUTHERN OIL CORPORATION, Kansas City, Mo. Filed Feb. 5, 1920.

Road Runner

Particular description of goods.—Gasolene.
Claims use since Oct. 15, 1919.

Ser. No. 128,045. (CLASS 39. CLOTHING.) W. T. GRANT CO., New York, N. Y. Filed Feb. 6, 1920.

Lusterite

Consisting of the word "Lusterite."
Particular description of goods.—Hosiery.
Claims use since January, 1918.

Ser. No. 128,057. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 6, 1920.

AUNT [illegible]

Particular description of goods.—Bread.
Claims use since Apr. 1, 1906.

Ser. No. 128,076. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Feb. 7, 1920.

SNOOKUM

Particular description of goods.—Shoes for Boys and Girls, Made of Leather and Canvas.
Claims use since Oct. 17, 1919.

Ser. No. 128,100. (CLASS 39. CLOTHING.) A. KROLIK & COMPANY, Detroit, Mich., and New York, N. Y. Filed Feb. 7, 1920.

KING PIN

Particular description of goods.—Men's Flannel Shirts, Work-Shirts, Night-Shirts, and Pajamas.
Claims use since Sept. 1, 1919.

Ser. No. 128,114. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULER CHOCOLATE FACTORY, INC., Winona, Minn. Filed Feb. 7, 1920.

SUGARLOAF

Particular description of goods.—Candy.
Claims use since 1911.

Ser. No. 128,117. (CLASS 39. CLOTHING.) STERLING MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 7, 1920.

"HAPPY HOME"

Particular description of goods.—House or Apron Dresses.
Claims use since Feb. 3, 1920.

Ser. No. 128,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. E. BARR PICKLING & PRESERVING COMPANY, St. Cloud, Minn. Filed Feb. 9, 1920.

BARR'S

Particular description of goods.—Canned Vegetables.
Claims use since Oct. 9, 1917.

Ser. No. 128,135. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. E. BARR PICKLING & PRESERVING COMPANY, St. Cloud, Minn. Filed Feb. 9, 1920.

GRANITE CITY

Particular description of goods.—Canned Vegetables.
Claims use since Sept. 15, 1919.

Ser. No. 128,136. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. E. BARR PICKLING & PRESERVING COMPANY, St. Cloud, Minn. Filed Feb. 9, 1920.

Watab

Particular description of goods.—Canned Vegetables.
Claims use since Sept. 15, 1919.

Ser. No. 128,186. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OSCAR H. WILL & CO., Bismarck, N. D. Filed Feb. 9, 1920.

Imperial

Particular description of goods.—Seeds—Namely, Flower-Seeds and Sweet-Pea Seeds.
Claims use since 1894.

Ser. No. 128,188. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OSCAR H. WILL & CO., Bismarck, N. D. Filed Feb. 9, 1920.

Emerald

Particular description of goods.—Seeds—Namely, Lawn and Grass Seeds.
Claims use since 1889.

Ser. No. 128,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CANDY COMPANY, Milwaukee, Wis. Filed Feb. 10, 1920.

Chatter Box

Particular description of goods.—Candy.
Claims use since Jan. 20, 1920.

Ser. No. 128,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CANDY MANUFACTURING CO., Selma, Ala. Filed Feb. 10, 1920.

GIANT

Particular description of goods.—Candy.
Claims use since January, 1911.

Ser. No. 128,204. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLNEY W. EVERTTS, Elmira, N. Y. Filed Feb. 10, 1920.

PROMISE

Particular description of goods.—Wheat-Flour and Pancake-Flour.
Claims use since Aug. 7, 1919.

Ser. No. 128,257. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Canes, Parasols, and Umbrellas.
Claims use since 1868.

Ser. No. 128,276. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 11, 1920.

IVORY PULP

No claim being made for the word "Pulp" except as shown in the accompanying drawing.
Particular description of goods.—Paper-Pulp.
Claims use since Jan. 31, 1920.

Ser. No. 128,280. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHALL'S INC., Clinton, Iowa. Filed Feb. 11, 1920.



CASTE

The lining shown is for shading only.
Particular description of goods.—Chocolates.
Claims use since Sept. 1, 1919.

Ser. No. 128,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ATCHISON MILLS CORPORATION, Atchison, Kans. Filed Feb. 12, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since the 1st day of October, 1919.

Ser. No. 128,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWLEY & HOOPS, New York, N. Y. Filed Feb. 12, 1920.

MONSTER

Particular description of goods.—Candies.
Claims use since about 1907.

Ser. No. 128,350. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MILLING PRODUCTS CO., Omaha, Nebr. Filed Feb. 13, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Oct. 1, 1919.

Ser. No. 128,361. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) J. A. MIGEL, INC., New York, N. Y. Filed Feb. 13, 1920.

FAN-TA-SI

Particular description of goods.—Parasols and Umbrellas.
Claims use since April, 1918.

Ser. No. 128,415. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 14, 1920.

BONNIE BELLE

Particular description of goods.—Bread.
Claims use since Oct. 16, 1919.

Ser. No. 128,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 14, 1920.

COLUMBUS

Particular description of goods.—Bread.
Claims use since Oct. 16, 1919.

Ser. No. 128,468. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SELF-SEATING VALVE COMPANY, Chicago, Ill. Filed Feb. 16, 1920.

Flexedge

Particular description of goods.—Valves for Internal-Combustion Engines.
Claims use since on or about June 1, 1919.

Ser. No. 128,664. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. L. CARROLL COMPANY, Gothenburg, Nebr. Filed Feb. 20, 1920.

LAST WORD

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 22, 1919.

Ser. No. 128,765. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE DILLER MFG. CO., Bluffton, Ohio. Filed Feb. 24, 1920.

AUTOMAID

Particular description of goods.—Fireless Cookers.
Claims use since Feb. 4, 1920.

Ser. No. 128,864. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SCOTT COUNTY MILLING COMPANY, Sikeston, Mo. Filed Feb. 24, 1920.

MONTEZUMA

Particular description of goods.—Wheat-Flour.
Claims use since October, 1919.

Ser. No. 128,923. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y. Filed Feb. 26, 1920.

CORSAIR

Particular description of goods.—Iron and Steel.
Claims use since Jan. 15, 1920.

Ser. No. 129,111. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed Mar. 1, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Oct. 24, 1903.

Ser. No. 129,508. (CLASS 12. CONSTRUCTION MATERIALS.) HENRY J. F. LUDEMAN, Pittsburgh, Pa. Filed Mar. 10, 1920.

TWINWON

Particular description of goods.—Bricks and Building-Blocks.
Claims use since Jan. 28, 1920.

TRADE-MARK REGISTRATIONS GRANTED

APRIL 13, 1920.

130,143. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. SAUL D. ABRAMS, Boston, Mass.
Filed July 14, 1919. Serial No. 120,514. PUBLISHED JANUARY 6, 1920.

130,144. STRUCTURAL MATERIAL MADE OF WOOD FOR INSULATION AGAINST HEAT, COLD, AND SOUND. AMERICAN BALSA CO., INC., New York, N. Y.
Filed July 3, 1919. Serial No. 120,231. PUBLISHED NOVEMBER 18, 1919.

130,145. STRUCTURAL MATERIAL MADE OF WOOD FOR USE IN AERONAUTICAL AND MARINE STRUCTURES. AMERICAN BALSA CO. INC., New York, N. Y.
Filed July 3, 1919. Serial No. 120,232. PUBLISHED NOVEMBER 18, 1919.

130,146. HIDES AND LEATHER. AMERICAN-NATIONAL SHOE & LEATHER CORP., New York, N. Y.
Filed July 30, 1919. Serial No. 121,102. PUBLISHED NOVEMBER 18, 1919.

130,147. HIDES AND LEATHER. AMERICAN-NATIONAL SHOE & LEATHER CORP., New York, N. Y.
Filed July 30, 1919. Serial No. 121,103. PUBLISHED NOVEMBER 18, 1919.

130,148. THREADS AND YARNS. AMERICAN TRADING COMPANY, New York, N. Y.
Filed September 23, 1919. Serial No. 123,015. PUBLISHED DECEMBER 2, 1919.

130,149. CANDY. MAX M. ANTHONY, Cleveland, Ohio.
Filed July 21, 1919. Serial No. 120,736. PUBLISHED DECEMBER 2, 1919.

130,150. VEHICLE-SPRINGS, FENDER-BRACES, AND SHOCK-ABSORBERS. A R G AUXILIARY SPRING CO., Birmingham, Ala.
Filed August 4, 1919. Serial No. 121,228. PUBLISHED NOVEMBER 11, 1919.

130,151. CUTTING AND WELDING TORCHES AND PARTS THEREOF. THE BASTIAN-BLESSING COMPANY, Chicago, Ill.
Filed February 17, 1919. Serial No. 115,898. PUBLISHED NOVEMBER 18, 1919.

130,152. CERTAIN NAMED BATH-ROOM FIXTURES. BAY RIDGE SPECIALTY CO., INC., Brooklyn, N. Y.
Filed December 14, 1916. Serial No. 99,917. PUBLISHED DECEMBER 2, 1919.

130,153. NON-INTOXICATING CARBONATED CEREAL MALTLESS BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. GUSTAV L. BECKER, Ogden, Utah.
Filed April 26, 1919. Serial No. 117,865. PUBLISHED DECEMBER 2, 1919.

130,154. CANDY. ROY F. BERGENGREN, Lynn, Mass.
Filed June 28, 1919. Serial No. 120,031. PUBLISHED DECEMBER 2, 1919.

130,155. CERTAIN NAMED FURNITURE. JOHN STOCKTON BLANKINSHIP, Lynchburg, Va.
Filed May 29, 1919. Serial No. 119,015. PUBLISHED JANUARY 6, 1920.

130,156. BREAD. HENRY BLEWETT & SON, INC., Somerville, Mass.
Filed March 23, 1918. Serial No. 109,738. PUBLISHED DECEMBER 2, 1919.

130,157. CERTAIN NAMED LUMBER STOCK MATERIAL. BROWN BROTHERS COMPANY, Gainesville, Fla.; New York, N. Y., and Memphis, Tenn.
Filed August 20, 1918. Serial No. 112,796. PUBLISHED DECEMBER 9, 1919.

130,158. TIERING-MACHINES, WHICH ARE EMPLOYED FOR HOISTING, STACKING, AND HANDLING HEAVY COMMODITIES. BROWN PORTABLE CONVEYING MACHINERY CO., Chicago, Ill.
Filed August 2, 1919. Serial No. 121,196. PUBLISHED NOVEMBER 18, 1919.

130,159. NON-INTOXICATING MALT BEVERAGE. THE BUCKEYE BREWING CO., Toledo, Ohio.
Filed July 29, 1919. Serial No. 121,037. PUBLISHED NOVEMBER 25, 1919.

130,160. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. IWAN BURGER, New York, N. Y.
Filed May 7, 1919. Serial No. 118,217. PUBLISHED DECEMBER 30, 1919.

130,161. PORTABLE HOISTING-DERRICKS. THE JOHN F. BYERS MACHINE COMPANY, Ravenna, Ohio.
Filed November 13, 1918. Serial No. 114,148. PUBLISHED NOVEMBER 18, 1919.

130,162. WALNUT-MEATS. CALIFORNIA WALNUT GROWERS ASSOCIATION, Los Angeles, Calif.
Filed June 9, 1919. Serial No. 119,336. PUBLISHED DECEMBER 2, 1919.

130,163. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. CENTLIVRE BEVERAGE CO., Fort Wayne, Ind.
Filed July 16, 1919. Serial No. 120,596. PUBLISHED NOVEMBER 25, 1919.

130,164. NATURAL SPRING-WATER AND ITS PRODUCTS PREPARED AS BEVERAGES FROM THE SAID NATURAL SPRING-WATER. CHIPPEWA SPRINGS CORPORATION, Minneapolis, Minn.
Filed September 15, 1919. Serial No. 122,684. PUBLISHED DECEMBER 9, 1919.

130,165. FIELD AND GARDEN SEEDS. T. H. COCHRANE CO., Portage, Wis.
Filed November 18, 1918. Serial No. 114,205. PUBLISHED NOVEMBER 11, 1919.

130,166. CERTAIN NAMED CRADLES, PILOT-BEAMS, END SILLS, WHEEL-CENTERS, TRUCK-FRAMES, PILOTS, AND ASH-PANS. COMMONWEALTH STEEL COMPANY, St. Louis, Mo.
Filed May 1, 1919. Serial No. 118,045. PUBLISHED NOVEMBER 18, 1919.

130,167. GLASS. CORNING GLASS WORKS, Corning, N. Y.
Filed August 5, 1919. Serial No. 121,273. PUBLISHED NOVEMBER 18, 1919.

130,168. FERTILIZERS. CRABBS REYNOLDS TAYLOR CO., INCORPORATED, Crawfordsville, Ind.
Filed August 5, 1919. Serial No. 121,274. PUBLISHED NOVEMBER 25, 1919.

130,169. TENTS, CANOPIES, AWNINGS, AND SUN-SHADES, TARPAULINS, PAULINS, HAY-COVERS, FLAGS AND BANNERS. JOHN CURTIN CORPORATION, New York, N. Y.
Filed March 27, 1919. Serial No. 116,953. PUBLISHED NOVEMBER 18, 1919.

130,170. OLIVE-OIL AND OLIVES. ALBERT DA COSTA, Philadelphia, Pa.
Filed April 2, 1919. Serial No. 117,109. PUBLISHED DECEMBER 2, 1919.

130,171. WATERPROOF TRUCK-COVERS AND TRACTOR-COVERS, TARPAULINS, PAULINS, AND WATERPROOF CANVAS COVERS. DAFOE-EUSTICE COMPANY, Detroit, Mich.
Filed June 16, 1919. Serial No. 119,641. PUBLISHED NOVEMBER 18, 1919.

130,172. HYDROCARBON BURNERS AND FURNACES. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed February 26, 1919. Serial No. 116,148. PUBLISHED NOVEMBER 18, 1919.

130,173. AIR-HEATING FURNACE, COAL-HEATED. P. C. DE VOL HARDWARE COMPANY, Council Bluffs, Iowa.
Filed April 4, 1919. Serial No. 117,154. PUBLISHED NOVEMBER 18, 1919.

130,174. LARD COMPOUND COMPOSED OF COTTONSEED OIL AND COTTON-OIL STEARIN. DIXIE REFINING CO., Memphis, Tenn.
Filed July 11, 1918. Serial No. 112,059. PUBLISHED OCTOBER 28, 1919.

130,175. ALSATIAN BRAIDS OF SILK, LINEN, COTTON, AND WORSTED. DOLLFUS-MIEG & CIE. SOCIETE ANONYME, Mülhouse, Germany.
Filed June 16, 1919. Serial No. 119,637. PUBLISHED NOVEMBER 18, 1919.

130,176. ALSATIAN BRAIDS OF SILK, LINEN, COTTON, AND WORSTED. DOLLFUS-MIEG & CIE. SOCIETE ANONYME, Mülhouse, Germany.
Filed June 16, 1919. Serial No. 119,639. PUBLISHED NOVEMBER 18, 1919.

130,177. STOVEPIPE; GAS, COAL, AND WOOD STOVES; PORTABLE OVENS. WM. ENDERS MANUFACTURING COMPANY, Walden, N. Y.
Filed April 26, 1919. Serial No. 117,872. PUBLISHED NOVEMBER 18, 1919.

130,178. CERTAIN NAMED FOODS. HANS FOERSTERLING, Jamesburg, N. J.
Filed March 12, 1917. Serial No. 102,075. PUBLISHED DECEMBER 2, 1919.

130,179. CERTAIN NAMED METAL BUILDING MATERIAL. GAGEN SALES CORPORATION, Chicago, Ill.
Filed April 18, 1919. Serial No. 117,593. PUBLISHED NOVEMBER 11, 1919.

130,180. GINGER-ALE; NON-ALCOHOLIC NON-CEREAL MALTLESS LOGANBERRY, KOLA, AND ORANGE FLAVORED BEVERAGES. SIGMUND L. GOLDMAN, Chicago, Ill.
Filed April 21, 1919. Serial No. 117,660. PUBLISHED NOVEMBER 25, 1919.

130,181. HEEL-GRIPS, WHICH ARE DEVICES ATTACHED TO SHOES FOR HOLDING THE SAME ON THE FOOT. WILLIAM GUINZBURG, New York, N. Y.
Filed July 9, 1919. Serial No. 120,379. PUBLISHED DECEMBER 9, 1919.

130,182. ROTARY TOOLS COMPRISING WRENCHES, SCREW-DRIVERS, AND BRACES. EDGAR C. GUTHARD CO., Chicago, Ill.
Filed July 9, 1919. Serial No. 120,378. PUBLISHED DECEMBER 23, 1919.

130,183. CORN AND CANE PRODUCTS SYRUPS. HARDAWAY-CARGILL CO., Columbus, Ga.
Filed July 29, 1918. Serial No. 112,386. PUBLISHED DECEMBER 16, 1919.

130,184. CIGARS. PANTELI HECTOR, Springfield, Mass.
Filed July 28, 1919. Serial No. 120,991. PUBLISHED NOVEMBER 25, 1919.

130,185. CARTONS, BOXES, SHIPPING-ENVELOPS, PARTITIONS FOR RECEPTACLES, LININGS FOR RECEPTACLES, AND WRAPPERS. THE HINDE & DAUCH PAPER CO., Sandusky, Delphos, and Cleveland, Ohio; Philadelphia, Pa.; New York, N. Y.; Muncie, Ind.; Gloucester, N. J., and Toronto, Canada.
Filed July 16, 1918. Serial No. 112,169. PUBLISHED DECEMBER 23, 1919.

130,186. NARROW BELTS FOR GARMENTS, NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,333. PUBLISHED DECEMBER 9, 1919.

130,187. BELTS FOR GARMENTS, BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,335. PUBLISHED DECEMBER 9, 1919.

130,188. NARROW BELTS AND NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,336. PUBLISHED DECEMBER 9, 1919.

130,189. NARROW BELTS AND NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,337. PUBLISHED DECEMBER 9, 1919.

130,190. NARROW BELTS FOR GARMENTS, NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 17, 1919. Serial No. 117,565. PUBLISHED DECEMBER 9, 1919.

130,191. STAPLE FORMING AND AFFIXING MACHINES AND PARTS FOR SUCH MACHINES. HUTCHISON OFFICE SPECIALTIES CO. INC., New York, N. Y.
Filed May 1, 1917. Serial No. 103,447. PUBLISHED NOVEMBER 25, 1919.

130,192. RUBBER BELTING, DUCK BELTING, RUBBER HOSE, DUCK HOSE, RUBBER MACHINERY PACKING, FLAX MACHINERY PACKING, AND ASBESTOS MACHINERY PACKING. IMPERIAL BELTING COMPANY, Chicago, Ill.
Filed August 22, 1919. Serial No. 121,900. PUBLISHED DECEMBER 30, 1919.

130,193. BRIDLES FOR BROOMS IN THE FORM OF A CLAMP FOR THE BROOM MATERIAL. JOHNSON, MCGARR & WARREN, Philadelphia, Pa.
Filed June 7, 1919. Serial No. 119,308. PUBLISHED NOVEMBER 18, 1919.

130,194. PRESSING-CLOTHS. THOMAS W. JONES, Cincinnati, Ohio.
Filed August 8, 1919. Serial No. 121,395. PUBLISHED NOVEMBER 11, 1919.

130,195. SHEET-METAL FASTENERS FOR CORSETS, RUBBER BUTTON-BASES, CAST-OFF STUDS, AND CORSET-CLASP EYES. KABO CORSET COMPANY, Chicago, Ill.
Filed September 16, 1918. Serial No. 113,194. PUBLISHED NOVEMBER 11, 1919.

130,196. VEGETABLE FOOD COMPOUND. PHILIP KLECKNER, New York, N. Y.
Filed August 6, 1919. Serial No. 121,305. PUBLISHED DECEMBER 2, 1919.

130,197. SWEET CHOCOLATE. KNICKERBOCKER CHOCOLATE COMPANY (INC.), New York, N. Y.
Filed September 26, 1919. Serial No. 123,165. PUBLISHED DECEMBER 9, 1919.

130,198. CERTAIN NAMED ARTICLES OF CLOTHING FOR MEN, WOMEN, AND CHILDREN. KNOX HAT COMPANY, INC., New York, N. Y.
Filed July 21, 1919. Serial No. 120,751. PUBLISHED DECEMBER 2, 1919.

130,199. HOROLOGICAL INSTRUMENTS — NAMELY, CLOCKS, WATCHES, WATCH-MOVEMENTS, AND CHRONOMETERS. LENOX JEWELRY CO., Boston, Mass.
Filed April 21, 1917. Serial No. 103,178. PUBLISHED JUNE 24, 1919.

130,200. GARTERS AND ARMBANDS, AND ALSO FOR GARMENT-SLEEVES PROTECTIVE COVERING MADE OF TEXTILE FABRICS. SIDNEY LEVY, San Francisco, Calif.
Filed January 18, 1919. Serial No. 115,291. PUBLISHED DECEMBER 9, 1919.

130,201. FACE-POWDERS. FLORENCE N. LEWIS, New York, N. Y.
Filed November 15, 1918. Serial No. 114,185. PUBLISHED JULY 8, 1919.

130,202. GARDEN, VEGETABLE, AND FIELD SEEDS. LEWIS IMPLEMENT AND SEED COMPANY, Louisville, Ky.
Filed August 5, 1919. Serial No. 121,280. PUBLISHED NOVEMBER 18, 1919.

130,203. CORNED BEEF. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed August 22, 1919. Serial No. 121,907. PUBLISHED DECEMBER 16, 1919.

130,204. THREAD AND YARN. H. E. LOCKE & COMPANY, INC., Boston, Mass.
Filed July 21, 1919. Serial No. 120,752. PUBLISHED NOVEMBER 18, 1919.

130,205. [WITHDRAWN.]

130,206. THREAD AND YARN. H. E. LOCKE & COMPANY, INC., Boston, Mass.
Filed July 21, 1919. Serial No. 120,757. PUBLISHED NOVEMBER 18, 1919.

130,207. NON-ALCOHOLIC MALT EXTRACTS. V. LOEWER'S GAMBRINUS BREWERY CO., New York, N. Y.
Filed February 11, 1919. Serial No. 115,768. PUBLISHED DECEMBER 2, 1919.

130,208. ARTICLES FORMED OF CUT GLASS. THE LOTUS CUT GLASS COMPANY, Barnesville, Ohio.
Filed May 5, 1919. Serial No. 118,161. PUBLISHED NOVEMBER 18, 1919.

130,209. RIVET-SETS AND METAL-WORKING PUNCHES. MAC-IT PARTS COMPANY, Lancaster, Pa.
Filed May 9, 1919. Serial No. 118,317. PUBLISHED NOVEMBER 18, 1919.

130,210. AUTOMOTIVE AIRCRAFT. GLENN L. MARTIN, Cleveland, Ohio.
Filed December 17, 1917. Serial No. 108,016. PUBLISHED DECEMBER 9, 1919.

130,211. STEAM-BOILERS. MEARS BROTHERS MFG. CO., Arkansas City, Kans.
Filed July 14, 1919. Serial No. 120,546. PUBLISHED NOVEMBER 18, 1919.

130,212. TRACTORS. MIDWEST ENGINE COMPANY, Indianapolis, Ind.
Filed June 30, 1919. Serial No. 120,119. PUBLISHED NOVEMBER 18, 1919.

130,213. NON-INTOXICATING CEREAL MALT BEVERAGE CONTAINING ONE HUNDRED PER CENT. OF EXTRACT OF MALT. FRED MILLER BREWING CO., Milwaukee, Wis.
Filed August 28, 1918. Serial No. 112,917. PUBLISHED NOVEMBER 25, 1919.

130,214. MALTLESS NON-ALCOHOLIC FRUIT BEVERAGES. MONOPOLE VINEYARDS CORP., New York, N. Y.
Filed September 9, 1919. Serial No. 122,491. PUBLISHED NOVEMBER 25, 1919.

130,215. NON-METALLIC BUTTONS. MORLEY BUTTON MANUFACTURING COMPANY, Portland, Me., and Boston, Mass.
Filed May 7 1919. Serial No. 118,234. PUBLISHED NOVEMBER 18, 1919.

130,216. CREOSOTED BUILDING MATERIAL. NATIONAL CREOSOTE CORPORATION, Oklahoma, Okla.
Filed March 11, 1918. Serial No. 109,506. PUBLISHED NOVEMBER 18, 1919.

130,217. EVAPORATED MILK. THE NATIONAL DAIRY CO., Toledo, Ohio.
Filed August 26, 1919. Serial No. 122,020. PUBLISHED DECEMBER 2, 1919.

130,218. MOTOR-CARS. THE NEW MERLIN CYCLE CO. LTD., Birmingham, England.
Filed August 8, 1919. Serial No. 121,403. PUBLISHED NOVEMBER 18, 1919.

130,219. LUMBER AND VENEERS. NICKEY BROTHERS, INC., Binghamton, Tenn.
Filed April 8, 1919. Serial No. 117,278. PUBLISHED NOVEMBER 18, 1919.

130,220. FLOUR. OMAHA FLOUR MILLS CO., Omaha, Nebr.
Filed August 25, 1919. Serial No. 121,988. PUBLISHED DECEMBER 2, 1919.

130,221. BOILED SUGAR-DROPS, BUTTER BONBONS, TOFFEES, CHOCOLATES, CACHOUS, AND PINE-LOZENGES. JAMES PASCALL, LTD., London, England.
Filed August 29, 1919. Serial No. 122,133. PUBLISHED DECEMBER 2, 1919.

130,222. GLASS LIGHTING-FIXTURES—NAMELY, SHADES, BOWLS, GLOBES, AND REFLECTORS. THE PHOENIX GLASS COMPANY, Pittsburgh, Pa.
Filed April 17, 1916. Serial No. 94,486. PUBLISHED NOVEMBER 18, 1919.

130,223. GLASS JARS. PHOENIX-HERMETIC COMPANY, Chicago, Ill.
Filed October 19, 1918. Serial No. 113,814. PUBLISHED NOVEMBER 18, 1919.

130,224. CERTAIN NAMED FOODS. PLAINWELL CANNING & PRESERVING COMPANY, Plainwell, Mich.
Filed September 10, 1919. Serial No. 122,544. PUBLISHED DECEMBER 2, 1919.

130,225. POWDERED FUEL MADE OF COAL. POWDERED COAL ENGINEERING & EQUIPMENT COMPANY, Chicago, Ill.
Filed May 5, 1919. Serial No. 118,178. PUBLISHED NOVEMBER 18, 1919.

130,226. ICING FOR CAKE AND BREAD. EMIL PROBST, Brooklyn, N. Y.
Filed August 22, 1918. Serial No. 112,838. PUBLISHED DECEMBER 2, 1919.

130,227. TEA. W. S. QUINBY COMPANY, Boston, Mass.
Filed November 26, 1918. Serial No. 114,383. PUBLISHED DECEMBER 16, 1919.

130,228. WHEAT-FLOUR. RICE CEREAL COMPANY, New Haven, Ind.
Filed September 10, 1919. Serial No. 122,550. PUBLISHED DECEMBER 2, 1919.

130,229. MALTLESS BEVERAGE. JACOB RIES BOTTLING WORKS, INC., Shakopee, Minn.
Filed September 3, 1919. Serial No. 122,268. PUBLISHED DECEMBER 9, 1919.

130,230. WHEAT-FLOUR. THE ROBINSON MILLING CO., Salina, Kans.
Filed August 26, 1919. Serial No. 122,027. PUBLISHED DECEMBER 2, 1919.

130,231. COVER-CLIPS, STRUT-SOCKETS, WINDSCREENS, SHOCK-ABSORBERS, UNDERCARRIAGES FOR AIRCRAFT, AND AIRCRAFT-SEATS. A. V. ROE & CO., LTD., Manchester, England.
Filed November 30, 1918. Serial No. 114,435. PUBLISHED DECEMBER 9, 1919.

130,232. INTERNAL-COMBUSTION ENGINES. ROLLS-ROYCE LIMITED, Derby, England.
Filed May 24, 1919. Serial No. 118,892. PUBLISHED NOVEMBER 18, 1919.

130,233. COFFEE. RUFFLY BROS., Dover, Ohio.
Filed November 21, 1918. Serial No. 114,275. PUBLISHED DECEMBER 2, 1919.

130,234. FRESH GRAPES. LOUIS RUSCONI, Wahtoke, Calif.
Filed September 12, 1919. Serial No. 122,613. PUBLISHED DECEMBER 2, 1919.

130,235. LENSES FOR AUTOMOBILE-HEADLIGHTS. C. A. SHALER COMPANY, Waupun, Wis.
Filed July 21, 1919. Serial No. 120,774. PUBLISHED NOVEMBER 18, 1919.

130,236. BITUMINOUS PAVEMENTS. SIMPSON BROS. CORPORATION, Boston, Mass.
Filed July 10, 1919. Serial No. 120,433. PUBLISHED NOVEMBER 18, 1919.

130,237. OLIVE-OIL. BASIL J. SPIROPOULOS, New York, N. Y.
Filed August 6, 1919. Serial No. 121,323. PUBLISHED DECEMBER 2, 1919.

130,238. GARTERS, HOSE-SUPPORTERS, AND ARM-BANDS. A. STEIN & COMPANY, Chicago, Ill.
Filed March 17, 1919. Serial No. 116,668. PUBLISHED NOVEMBER 11, 1919.

130,239. CERTAIN NAMED FOODS. TOLERTON & WARFIELD CO., Sioux City, Iowa.
Filed August 2, 1915. Serial No. 88,377. PUBLISHED DECEMBER 30, 1919.

130,240. LEATHER. ULTRAMARES CORPORATION, New York, N. Y.
Filed October 29, 1919. Serial No. 124,316. PUBLISHED DECEMBER 9, 1919.

130,241. DRESS-FASTENERS. ULTRAMARES CORPORATION, New York, N. Y.
Filed October 29, 1919. Serial No. 124,317. PUBLISHED DECEMBER 9, 1919.

130,242. BUILDING-CEMENT IN THE NATURE OF PORTLAND CEMENT. ULTRAMARES CORPORATION, New York, N. Y.
Filed October 29, 1919. Serial No. 124,323. PUBLISHED DECEMBER 9, 1919.

130,243. BRUSHES USED AS SASH-TOOLS. UNITED BRUSH MANUFACTORIES, New York, N. Y.
Filed April 19, 1919. Serial No. 117,630. PUBLISHED NOVEMBER 25, 1919.

130,244. WRENCHES. WALDEN WORCESTER, INC., Worcester, Mass.
Filed June 28, 1919. Serial No. 120,079. PUBLISHED NOVEMBER 18, 1919.

130,245. BACTERIOLOGICAL CULTURE OF BACILLUS BULGARICUS FOR DIARRHEA IN CHICKS AND FOWLS. THOMAS A. WALSH, Yonkers, N. Y.
Filed October 6, 1919. Serial No. 123,509. PUBLISHED JANUARY 27, 1920.

130,246. LIGHT REFRACTING OR DIFFUSING GLASSES FOR HEADLIGHTS. THE WARNER LENZ COMPANY, (now by change of name Warner-Patterson Company, a Corporatiin of Illinois,) Chicago, Ill.
Filed May 6, 1918. Serial No. 110,724. PUBLISHED NOVEMBER 18, 1919.

130,247. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES AND SYRUPS, COLORS, AND FLAVORS USED IN THE PREPARATION THEREOF. WHITTLE & MUTCH, Philadelphia, Pa.
Filed September 25, 1919. Serial No. 123,148. PUBLISHED DECEMBER 2, 1919.

130,248. CARBURETERS AND MIXING-MANIFOLDS FOR INTERNAL-COMBUSTION ENGINES. THE WIGHT INVESTMENT COMPANY, Denver, Colo.
Filed April 7, 1919. Serial No. 117,263. PUBLISHED NOVEMBER 18, 1919.

130,249. METAL DISCOUNT-CHECK. ALFRED F. WINSLOW, New York, N. Y.
Filed June 5, 1919. Serial No. 119,255. PUBLISHED NOVEMBER 18, 1919.

130,250. NON-ALCOHOLIC BEVERAGES MADE FROM FRUIT-JUICES. MICHAEL WINTER, Orange, N. J.
Filed May 12, 1919. Serial No. 118,411. PUBLISHED NOVEMBER 25, 1919.

130,251. POLISH FOR FURNITURE, AUTOMOBILES, AND OTHER VARNISHED SURFACES. ALBERT ZWEIBACH, New York, N. Y.
Filed June 17, 1919. Serial No. 119,726. PUBLISHED NOVEMBER 25, 1919.

TRADE-MARK REGISTRATIONS RENEWED.

17,351. FERTILIZERS. LISTER'S AGRICULTURAL CHEMICAL WORKS, Newark, N. J.; Baltimore, Md., and Rochester, Utica, and New York, N. Y.
Registered December 31, 1889. Renewed December 31, 1919.

LABELS

REGISTERED APRIL 13, 1920.

21,777.—*Title:* "NOVELITE SPREADS." (For Bedspreads.) B. F. BAILEY & Co., New York, N. Y. Filed December 26, 1919.

21,778.—*Title:* "COWAN'S PREFERRED COFFEE." (For Coffee.) EARL COWAN CO. INC., Los Angeles, Calif. Filed December 27, 1919.

21,779.—*Title:* "FALLS." (For Coffee.) DWINELL-WRIGHT COMPANY, Boston, Mass. Filed November 5, 1919.

21,780.—*Title:* "STAR & CRESCENT." (For Coffee.) DWINELL-WRIGHT COMPANY, Boston, Mass. Filed November 5, 1919.

21,781.—*Title:* "SCHOOL HOUSE." (For Coffee.) DWINELL-WRIGHT COMPANY, Boston, Mass. Filed November 5, 1919.

21,782.—*Title:* "THE DRINK THAT KEPT MILWAUKEE FAMOUS." (For Fruit Nectar.) EX-ZACT FOOD PRODUCTS CO., Milwaukee, Wis. Filed December 23, 1919.

21,783.—*Title:* "THE FLY CATCHER U-HANG-UP." (For Flycatchers of Paper-Ribbon Type.) GRAEF & RUSSELL, New York, N. Y. Filed December 20, 1919.

21,784.—*Title:* "J. HANDLER LACQUIN." (For Stains and Varnishes.) JACOB HANDLER, Brooklyn, N. Y. Filed February 21, 1919.

21,785.—*Title:* "QUICK WHIP." (For an Egg Product.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed February 4, 1920.

21,786.—*Title:* "KELLOGG'S SHREDDED KRUMBLES." (For Shredded Krumbles.) KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich. Filed December 24, 1919.

21,787.—*Title:* "KELLOGG'S ROASTED KORN KRISP." (For Roasted Korn Krisp.) KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich. Filed December 24, 1919.

21,788.—*Title:* "KEYSTONE BRAND." (For Cherries.) KEYSTONE FRUIT PRODUCTS CO., Cincinnati, Ohio. Filed December 26, 1919.

21,789.—*Title:* "OLD DUTCH." (For Non-Intoxicating Cereal Beverage.) THE KRANTZ PRODUCTS COMPANY, Findlay, Ohio. Filed December 22, 1919.

21,790.—*Title:* "MAGNOLIA." (For Cigars.) MAGNOLIA CIGAR COMPANY, Brooklyn, N. Y. Filed December 5, 1919.

21,791.—*Title:* "MENTHO MALTED HOREHOUND KISSES." (For Hoarhound Kisses.) PETER A. MANDABACH, Chicago, Ill. Filed December 22, 1919.

21,792.—*Title:* "LAXATIVE CHOCOLATE BAR." (For Laxative Chocolate Bars.) PETER A. MANDABACH, Chicago, Ill. Filed December 22, 1919.

21,793.—*Title:* "CHARCOAL TOOTH PASTE." (For Tooth-Paste.) PETER A. MANDABACH, Chicago, Ill. Filed December 22, 1919.

21,794.—*Title:* "CANDIES." (For Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed December 18, 1919.

21,795.—*Title:* "EVAPORATED WASHINGTON APPLES." (For Evaporated Apples.) NORTHWEST EVAPORATING COMPANY, Cashmere, Wash. Filed December 3, 1919.

21,796.—*Title:* "THURBER'S WINDHAM CORN." (For Canned Corn.) ALFRED PUTNAM & COMPANY, New York, N. Y. Filed December 4, 1919.

21,797.—*Title:* "THURBER'S BARTLETT PEARS." (For Canned Bartlett Pears.) ALFRED PUTNAM & COMPANY, New York, N. Y. Filed December 4, 1919.

21,798.—*Title:* "JETTO BLACK DYE." (For Black Dyes.) SHINE-EASY SHOE POLISH COMPANY, Chicago, Ill. Filed June 6, 1919.

21,799.—*Title:* "SHINE-EASY SHOE POLISH." (For Shoe-Polish.) SHINE-EASY SHOE POLISH COMPANY, Chicago, Ill. Filed June 6, 1919.

21,800.—*Title:* "UNDERWOOD'S SARDINES IN MUSTARD DRESSING." (For Sardines.) WILLIAM UNDERWOOD COMPANY, Boston, Mass. Filed December 27, 1919.

21,801.—*Title:* "UNDERWOOD'S SARDINES IN OIL." (For Sardines.) WILLIAM UNDERWOOD COMPANY, Boston, Mass. Filed December 27, 1919.

21,802.—*Title:* "VOGT'S PHILADELPHIA SCRAPPLE." (For Scrapple.) F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed December 16, 1919.

21,803.—*Title:* "ARMORY BRAND." (For Canned Food Products.) WALKER-MATTESON CO., Joliet, Ill. Filed December 18, 1919.

21,804.—*Title:* "OVERLAND." (For Apples.) WEISER AIR STORAGE CO., Weiser, Idaho. Filed December 27, 1919.

PRINTS

REGISTERED APRIL 13, 1920.

5,240.—*Title:* "BANKERS' DIAMOND SELECTION SERVICE." (For Diamonds.) JACOB BENNETT, INC., Norfolk, Va. Filed March 8, 1920.

5,241.—*Title:* "LEARNING TO DRINK MARTIN'S CALF FEED." (For Calf Feed.) MARTIN CALF FEED COMPANY, Mineral Point, Wis. Filed December 20, 1919.

5,242.—*Title:* "P. A. PLAYS SUCH A GLAD TUNE IN THAT OLD JIMMY PIPE!" (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed December 20, 1919.

5,243.—*Title:* "YOU'VE GOT 'EM BREAKING RIGHT." (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed December 20, 1919.

5,244.—*Title:* "P. A. HAS SUCH A JOY'US WAY OF MAKING MEN GLAD ABOUT JIMMY PIPES!" (For Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed December 20, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DICKINSON *v.* SWINEHART.

Decided February 2, 1920.

1. PATENTS—INTERFERENCE—DILIGENCE.

The diligence required of one first to conceive and last to reduce to practice need not be extraordinary. "It needs to be only reasonable under the circumstances of the case, nor does it 'involve uninterrupted effort nor the concentration' of all the applicant's energies upon the single enterprise."

2. SAME—SAME—SAME.

D. conceived the invention in August, 1912, disclosed it in November, 1912, and immediately after the disclosure caused a draftsman to commence work on drawings for a machine. D. was obliged to be away from his home for a considerable period from March, 1913, to February, 1914, but during this time draftsmen were working on drawings under his directions, and a model apparatus for producing the process of the invention was completed in June, 1914. D.'s application was filed on February 26, 1915. S. alleges conception and disclosure in February, 1913, and filed his application on December 16, 1914. *Held* that D. was not lacking in diligence.

3. SAME—REDUCTION TO PRACTICE—PROCESS—NECESSITY OF TESTING PRODUCT PRODUCED.

Quære: Whether the practice of a process for making a cord tire which involved "winding the cord spirally around a support to produce a fabric web, and thereafter shifting said cord to change the angle of the cord element relative to the sides of said web," without embodying the web so formed into a tire, is a reduction to practice.

Mr. J. R. Littell and *Mr. J. C. Dowell* for the appellant.

No appearance or brief for the appellee.

SMYTH, *C. J.:*

Dickinson appeals from a decision of the Patent Office, awarding priority to Swinehart for a method of making a cord fabric or fabric carcass which forms the foundation of a pneumatic tire. There are seven claims involved of which claim 1 is illustrative. It is as follows:

1. The method of making a tire skeleton, which comprises winding cord spirally around a support to produce a fabric web, and thereafter shifting said cord to change the angle of the cord elements relative to the sides of said fabric web.

Swinehart filed his application on December 16, 1914, and Dickinson, February 26, 1915. Therefore the onus of proof is on Dickinson. The Examiner of Interferences found in favor of Dickinson, but he was reversed by the Board of Examiners, whose decision was affirmed by the First Assistant Commissioner.

The record establishes that Dickinson conceived the invention in August, 1912, and disclosed it in the following November. Immediately after the disclosure, he caused a draftsman to commence work on drawings for a machine for manufacturing a tire skeleton according to the method of the issue. This work was continued until March, 1913, when it was turned over to another draftsman. Dickinson, by reason of his brother's illness, was required to be absent from New York, where the work was being carried on, for a considerable period in 1913, and during the month of January, 1914, but while he was away, his draftsman was at work under his directions communicated by letter. In June of the latter year, Dickinson had, according to his own testimony, supported by that of three witnesses, completed a model apparatus by which a complete fabric carcass could be made, and he also constructed on the model such a carcass by pursuing the method of the issue, but the Board and the Assistant Commissioner thought that he should have gone further, and shown that the cords as laid up by him on the model could be embodied into a fabric tire without further invention; and that since he had failed to do this, he was not entitled to have the work done in June considered as a reduction to practice. The Examiner of Interferences, on the other hand, was of the opinion that the counts of the issue did not require him to do more than he had accomplished. We doubt this. He was required to produce a "tire skeleton" or carcass. Unless the skeleton constructed by him could be used in making a tire, it would not meet the issue, since it would not be a "tire skeleton." But as we view the case, this is immaterial.

Dickinson, as we have said, was the first to conceive and disclose the invention. This is clearly established. Was he diligent between the disclosure and the date on which he filed his application? The diligence required is not extraordinary. It needs to be only reasonable under the circumstances of the case, nor does it "involve uninterrupted effort nor the concentration" of all the applicant's energies upon the single enterprise.

> The health, the means, the liberty of the inventor • • • are proper subjects for consideration—

in determining the question. (1 Rob. on Pats., sec. 387; Walk. on Pats., 5th ed., sec. 91; *Courson* v. *O'Connor*, 227 Fed., 890, 894.)

From Dickinson's return to New York after the January, 1914, absence, he was continuously at work until he filed his application in the Patent Office,

February 26, 1915. This is made clear by his own testimony and that of his witnesses. And the Board of Examiners found—

that the proofs of his activity during that period are fairly satisfactory.

Serious fault, however, is found with the evidence covering the time between his disclosure in November and his return to New York in 1914. We have already called attention to the work done anterior to March, 1913, when he employed a new draftsman, one Hawkins. In addition, it should be stated that at the time of the disclosure, he made arrangements with Block to supply finances for the development of his ideas and the manufacture of a model embodying them. Hawkins says that Dickinson endeavored to have him come to Indiana to carry on the work with him there, but that he had transactions in New York, from which he could not separate himself; that he was in continuous communication with Dickinson during his absence, concerning different phases of the work, and that the work on the machine drawings was carried on "without interruption during his (Dickinson's) absence." Mansuy, an experienced tire constructor, corroborates Dickinson and Hawkins in many important respects. He says that between August, 1912, and the time he was testifying, Dickinson called on him frequently and thoroughly discussed with him the construction of the machine and the drawings therefor. The First Assistant Commissioner criticizes this testimony on the ground that it is too general and adds that in his view the drawings introduced in evidence did not indicate that any such period of time as the witnesses said was necessary for their preparation. Perhaps not, but the drawings in evidence were not the only ones upon which work had been done. Dickinson testified that—

many of the study drawings were destroyed with intent and many of the assembly and detail drawings were ruined by the overturning of a vessel of some kind containing acid. * * *

All these witnesses were intelligent men, familiar with the subject about which they testified and, with the exception of Dickinson, were disinterested. If we believe them, and there is no reason why we should not, we must conclude that during the period in question work on the machine drawings was carried on, in the language of Hawkins, "without interruption." Of course, it may be that the drawings could have been made in a shorter time, and that every moment of the inventor's time was not given to their preparation or work in connection therewith, but this was not necessary.

The law—

says Judge Drummond—

looks with indulgence upon the delays which arise from the circumstances of the parties, who may make an invention, and it is only when the invention is intentionally abandoned or neglected that the law declares they shall not be protected in their invention. (*Sayles* v. *Chicago & N. W. R. R. Co.*, 1 Biss., 468.)

There is nothing here to indicate intentional abandonment or neglect. Everything points to the contrary.

Swinehart does not claim conception and disclosure prior to February, 1913, and, according to his own testimony, did not make a frame on which to wind the cord in forming the carcass by the method called for by the issue which he "considered practical," until February, 1915. In view of this, the earliest date which can be given to him for reduction to practice, is his filing date, December 16, 1914. Dickinson, having conceived and disclosed the invention in 1912, several months before him, and having been reasonably diligent from that time down to the filing of his application, he is entitled to priority over Swinehart. The decision of the Patent Office is therefore reversed and priority is awarded to Fredrick S. Dickinson.

Reversed.

Court of Appeals of the District of Columbia.

THE R. M. HOLLINGSHEAD CO. *v.* AREA MANUFACTURING CO.

Decided February 2, 1920.

TRADE-MARKS—PRIORITY—EVIDENCE OF PRIORITY.

Where appellant, The R. M. Hollingshead Co., proved use of the mark "Gear Life" for lubricating compounds not earlier than April, 1916, and a witness on behalf of appellee, the Area Manufacturing Co., testified that in August, 1915, packages of grease were shipped bearing this mark stenciled thereon, and way-bills of shipments were produced, though not referring to the mark, and a traveling salesman testified that he took orders for "Gear Life" compound between February 1, 1916, and the following May, and that during this time he stenciled the mark on packages containing the compound and gave the names of parties to whom the goods were sold, which evidence was corroborated by other witnesses, and appellant did not avail himself of the opportunity to call any of the parties referred to in the way-bills or to whom the goods were alleged to have been sold, *Held* that the evidence was sufficient to prove priority of use by appellee.

Mr. E. H. Fairbanks for the appellant.

Mr. R. F. Steward and *Mr. Luther Johns* for the appellee.

VAN ORSDEL, *J.:*

This is a trade-mark interference. Each party applied for the registration of the words "Gear Life" as a trade-mark for lubricating compounds. From a decision in favor of the Area Manufacturing Company the Hollingshead Company has appealed.

It is not seriously contended that appellant company can claim use of the mark prior to April, 1916. We think the evidence clearly establishes sales by appellee company of lubricating compounds bearing the words "Gear Life" prior to April, 1916. An employee in the Soo Line Railroad office at Area, Ill., testified that early in August, 1915, boxes, kegs and barrels of grease were shipped by the appellee company from that station which were stenciled with the words "Gear Life." The way-bills of these shipments were produced, which merely showed the shipment of "grease;" but in the abbreviated form in which way-bills are usually made out no inference can be drawn from the failure to enter thereon the trade-name of the goods.

A traveling salesman for appellee company testified that he took orders for "Gear Life" compound between February 1, 1916, and the following May, and also that during that period he stenciled the

words "Gear Life" on packages containing the compound of appellee company. He also gave the names of parties to whom he sold these goods during February and March, 1916. These parties, as well as the names of the consignees shown upon the way-bills, were available to appellant to disprove the very important testimony of the salesman and the railroad agent.

The foregoing evidence was corroborated by numerous witnesses, a number of whom may be considered as interested, but on the whole the proof in support of appellee company's prior right to registration must be accepted.

The decision of the Commissioner of Patents is affirmed, and the clerk is directed to certify these proceedings as by law required.

Affirmed.

Court of Appeals of the District of Columbia.

DUNCAN *v.* SHELLY.

Decided March 1, 1920.

1. PATENTS—PRIORITY—ABANDONMENT OF FIRST EXPERIMENTAL DEVICE.

Where S. constructed an experimental device relating to phonograph-stops in May, 1914, and tested it, but dismantled it and admitted that he had no intention of using it again, and soon thereafter caused an application to be prepared, but did not file it, although he was able to do so, and did nothing further until February, 1916, when he built a second device, which was submitted to a company interested in such attachments, which purchased the invention in March, 1916, after they had experimented with the invention of D., the other party to the interference, and caused S.'s application to be filed on April 5, 1916, *Held*, without determining whether S.'s device of 1914 was a reduction to practice, that S. is not entitled to prevail over D., who conceived in May and reduced to practice in June, 1914, and filed his application on April 21, 1915, since he lost his right to assert priority over D. by his long delay and conduct in abandoning his experimental device.

2. SAME—REDUCTION TO PRACTICE—EXCUSE FOR FAILURE TO REDUCE—POVERTY.

A claim of financial inability to file an application for patent *Held* not sustained where it appears that during the period of such alleged inability the inventor had no one dependent upon him, was employed most of the period, and purchased a motorcycle and was paying for the same in monthly installments.

Mr. A. E. Dieterich and *Mr. C. A. Dieterich* for the appellant.

Mr. J. Edgar Bull for the appellee.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents in an interference proceeding awarding priority of invention to appellee Shelly.

The invention relates to a stop mechanism by means of which the turn-table of a phonograph may be automatically stopped when the reproduction of sound from the record has been completed. It is unnecessary to consider the invention or the counts of the issue, since the appeal turns upon questions of law.

Appellant Duncan alleges conception of the invention in May, 1914, and reduction to practice in June, 1914. He filed his application for patent April 21, 1915. Appellee Shelly alleges conception in April, 1914, reduction to practice May 17, 1914, and a written description of the invention June 15, 1914. He filed his application April 5, 1916, and is, therefore, the junior party in this interference.

It appears that in May, 1914, Shelly produced an automatic stop for a phonograph which was experimented with and proved to be operative. There is a division of opinion in the tribunals below as to whether it amounted to a reduction to practice of the present invention. But in our view of the case this is unimportant. After this May test appellee caused an application for a patent to be prepared which was never filed. This device, the structure of which is not clearly disclosed, was not preserved. In regard to it appellee testified in answer to a question:

No sir. I did not intend to use these parts over again, because they were too bulky and clumsy. These parts were simply used to show that my theory or experiment was right.

The following question was then propounded:

By "no sir," as used in your last answer, you mean that you were not much concerned with what became of your original stop mechanism. Is that right?

To which he answered, "That is right."

It will be observed that it was at the time Shelly was experimenting with the invention that Duncan came into the field and with commendable promptness reduced his invention to practice and filed his application. On April 19, 1916, Duncan granted the Thos. A. Edison, Inc., a license upon a royalty basis to use the invention on its phonographs. The device, however, had been under test in the experimental laboratory of the Edison Company since the summer of 1915, during which time negotiations were conducted leading up to the contract of the following April.

According to his own record, Shelly did nothing from June, 1914, until February, 1916, when he made a second machine, which was submitted to the Edison Company about February 18, 1916, and which was purchased outright by the Edison Company for the sum of $540.00 by contract dated March 9, 1916. He also agreed to execute any applications for patent which the Edison Company might prepare and have prepared.

We think the assumption may be indulged that the purchase of the Shelly invention and the application for patent which inures solely to the benefit of the Edison Company, inspired the completion of the royalty contract for the use of the Duncan device for the express purpose of defeating and suppressing it. The knowledge of the Duncan invention by the Edison Company must be imputed to Shelly. Hence, the activity of the Edison Company in filing the application for the second or 1916 device is Shelly's activity. Aside from the abstract principle of law that in a case like the present the assignor and assignee must stand upon a level, it clearly appears from the record that the resurrection of the abandoned 1914 experiment by Shelly in the form of the 1916 device was inspired by the agents of the Edison Company.

This, however, is not important except in so far as it throws light upon Shelly's conduct, since, of

course, the Edison Company must be held to have succeeded to whatever rights Shelly had, and the case must be determined solely from the standpoint of Shelly's right to prevail. We think, however, without determining the question of reduction to practice in 1914, Shelly, by his delay and conduct in junking the 1914 device lost his right to assert priority over Duncan. This is in harmony with a long line of decisions in this court, which has been approved by the circuit court of appeals in *Curtain Supply Co.* v. *National Lock Washer Co.*, (174 Fed., 45,) where the court said:

> It is the settled doctrine of the Court of Appeals for the District of Columbia that when an inventor perfects and reduces to practice an invention, and fails for an unreasonable period to take steps to give it to the public, and until some one else has independently invented and patented it, the earlier inventor forfeits his rights to a patent as against the later inventor.

The same rule applies also where a patent has not issued to the other party. (*Gordon* v. *Wentworth*, 31 App. D. C., 150; *Howard* v. *Bowes*, 31 App. D. C., 619; *Dreckschmidt* v. *Schaefer*, 46 App. D. C., 295; *Brown* v. *Campbell*, 41 App. D. C., 499.)

The intention of Shelly to abandon the invention, we think, is clear. It seems to have gone out of his mind until he was inspired into activity by the Edison Company which was then in possession of knowledge of the Duncan invention. Abandonment in most instances can only be determined by inferences to be drawn from the conduct of the party against whom it is charged, and while it must be sustained by convincing proof (*Hubbard* v. *Burg*, 40 App. D. C., 577, 581) if the conduct, as here, discloses an intention to pursue the matter no further, abandonment may be inferred.

Some attempt has been made to account for Shelly's delay through his alleged inability to secure funds to file his application for patent. This defense totally fails. According to his own story he had the device constructed in 1914, when he had an application prepared. The attorney's fee was $30.00. This amount, together with the filing fee in the Patent Office, was the insurmountable obstacle for almost two years and until the Edison Company came to the rescue. Shelly was a young man, single, with no one dependent upon him. He was employed most of the period in question, during which time it appears that he purchased a motorcycle and was paying for the same in monthly installments. His claim of inability through poverty to protect his rights by filing an application for patent is without merit.

The decision of the Commissioner of Patents is reversed, and the clerk is directed to certify these proceedings as by law required.

Reversed.

Court of Appeals of the District of Columbia.

IN RE ROBERTS.

Decided March 1, 1920.

1. PATENTS—APPLICATION—SOLE APPLICATION MAY TAKE BENEFIT OF FILING DATE OF PRIOR JOINT APPLICATION.

> Where an application is filed by two parties as joint inventors, but during its pendency one of the joint applicants admitted that he had no part in the act of invention and it appears that he was joined as a coinventor through inadvertence and mistake and without fraudulent intent, a sole application afterward filed by the other joint applicant for the same subject-matter is entitled to the benefit of the filing date of the joint application.

2. SAME—SAME—CHANGING JOINT TO SOLE APPLICATION.

> Where during the pendency of a joint application it is admitted by one of the joint applicants that he had no part in the act of invention and it appears that he was joined as a coinventor through inadvertence and mistake and without fraudulent intent, "it is difficult to perceive any reason for not permitting the rectification of such a mistake, by an amendment eliminating the superfluous applicant."

Mr. H. A. Toulmin for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.*:

Appeal from a decision of the Patent Office refusing to treat the application herein as a continuation of a joint application embracing the same subject-matter, theretofore filed by appellant and another under a mistake of fact.

On June 24, 1912, the present applicant and Park D. Roberts, his son, filed an application embracing not only subject-matter to which they jointly contributed but, as well, the subject-matter involved in the present application. An interference was declared between this joint application and a reissue application of Mr. F. A. Bruckman, and during the taking of testimony it developed that the son had nothing to do with the particular subject-matter of the present application. Thereupon, priority as to this subject-matter was awarded Bruckman by the Patent Office *on the ground that the Roberts were not joint inventors.* Just when the final decision was made does not appear, but it does appear that the present application was filed in October of 1917, as a continuation of the former joint application. The drawings, specification and claims of the present application were copied from the former. In other words, as to the subject-matter involved the present application is in substance the former application, but the Patent Office declined to consider the present application as a continuation of the former joint application, the result being that the Bruckman patent, having issued more than two years prior to the filing of the present application, became a statutory bar to its allowance. The question for our consideration, therefore, is whether, in a case like the present where it appears that a joint application has been filed through mistake or inadvertence and without fraudulent intent, the sole inventor, one of the joint applicants, is estopped from taking any advantage of that application.

The Examiners-in-Chief conceded that the result of the Patent Office ruling might be to deprive the applicant of an opportunity to contest the issue of priority, to procure a patent or assert his right thereto, and to permit his adversary—

> to go hence with a patent the right to which, and the validity of which, the Patent Office will have failed to determine beforehand

The Board, however, felt constrained to follow what it conceived to be a line of decision in the Patent Office to the effect that a sole applicant is a different entity from joint applicants, and hence that a sole application may not be considered in any circumstances as a continuation of the old. The Assistant Commissioner relied upon the prior decisions of the Office and upon certain decisions of this and other Federal courts, to which we will refer later.

In *Godfrey* v. *Eames* (1 Wall., 317) it was ruled that where an applicant for a patent elects to withdraw his application for the purpose of filing a new application, the two applications are to be considered as parts of the same transaction, constituting one continuous application. The court was influenced by the fact that the two applications covered the same subject-matter, or that there was identity of subject-matter. In *Smith* v. *Goodyear Dental Vulcanite Co.*, (93 U. S., 486,) where an application had been rejected three times and a new application was not filed until several years thereafter, it was held that the new application, being for the same invention, was a mere continuation of the original application and not a new and independent one. While these decisions involve a somewhat different question than that before us, they evince a purpose to consider substance rather than form, to the end that the real inventor may receive recognition. That there are no insuperable obstacles in the present case is apparent from a perusal of former Rule 32 of the Patent Office, which was promulgated in 1897 and provided that new parties might be added to a pending application of joint inventors, that some of the parties might be dropped where all consented in writing—

> and where the nonjoinder or misjoinder was by mistake and without fraudulent intent.

The fact that this rule was subsequently repealed does not militate against its consideration here, for it is applicable to the question before us. Section 4888, Revised Statutes, requires an inventor to file an application clearly pointing out his invention, but such was the law when the decisions were rendered in *Godfrey* v. *Eames* and *Smith* v. *Goodyear Dental Vulcanite Co.* The joint application of Roberts and Roberts answered every requirement of this section, except that one of the applicants, as it subsequently developed, did not contribute anything to the subject-matter here involved. All that was sought in the new application was the elimination of one of the joint applicants, to whom credit mistakenly had been given for the particular invention involved. There was identity of subject-matter, and it is difficult to perceive any reason for not permitting the rectification of such a mistake by an amendment eliminating the superfluous applicant. Surely, if such an amendment would have been proper, then the filing of what in substance and effect was a duplicate application by the sole inventor should have been regarded as a continuation of the former application. When one joint applicant admitted that this particular subject-matter was the sole invention of the other applicant, to all intents and purposes the application as to this subject-matter was the application of the sole inventor, who still was a party to the proceeding. The Patent Office, in our view, has failed to give proper weight to the fact that there is identity of subject-matter here, that there is no conflict of interest, and that the second application is filed merely to correct a formal error.

The Assistant Commissioner cites our decision in *Lemp* v. *Randall* (33 App. D. C., 430) in support of his conclusion, but the question here in issue was neither involved nor discussed in that case. It there was ruled that the Patent Office should have determined whether the joint applicants were in fact joint inventors, for if it appeared they were not there would be a failure of parties; that is to say, a finding that joint applicants are without standing to contest the question of priority with another applicant destroys the basis for an award of priority. In that case the joint applicants insisted that they were joint inventors, and the court so found.

Much reliance also is placed upon the decision in *American Casting Machine Co.* v. *Pittsburgh Co.*, (237 Fed., 590.) While the joint application of Uehling, Miller and Scott in that case was pending in the Patent Office here, Scott caused the invention to be patented in Great Britain. Subsequently the joint application was abandoned. More than seven months after the filing of the British application, Scott filed a sole application in this country and obtained a patent thereon. It was held that this patent was void because of the British patent. The court referred to the disclaimer that the patent in suit was a division of the abandoned application. It thus appears that after a foreign patent had been obtained on behalf of the joint inventors by one of them and the joint application for the same invention had been abandoned here, one of the joint applicants filed what was characterized by the court as "a hostile and independent application" for the same invention. Of course the court ruled that, in such circumstances, the application must stand "on its own ground." Here, however, there is no such inconsistency. No patent has been obtained under the former joint application, which the joint applicants concede was formally defective. To prevent a possible failure of justice, the present application should have been considered as a continuation of the abortive application. As already suggested, we perceive no reason why the mistake could not have been rectified by a simple amendment, but in any event the sole inventor should not be deprived of his day in court by the raising of artificial barriers against him. He claimed his invention and, through mistake, gave his son credit where no credit was due. The elimination of the son ought not to deprive the father, the sole inventor, of the benefit of his original application, and we so rule.

It perhaps is unnecessary to add that a party who seeks to correct his own mistake must act

with reasonable diligence and also assume the burden of establishing his good faith.

The decision is reversed and the case remanded for further proceedings in harmony with this opinion.

Reversed and remanded.

(NOTE.—The decision of the First Assistant Commissioner is as follows:)

Applicant appeals from the decision of the Examiners-in-Chief affirming the decision of the Primary Examiner finally rejecting the claims of this application.

The rejection is based on the ground that this application cannot be regarded as a continuation of the application filed by this applicant and Park D. Roberts and that the present application was filed more than two years after the grant of the patent to Bruckman, No. 1,091,729, March 31, 1914.

In an interference involving the joint application of Roberts and Roberts and an application for the reissue of the Bruckman patent all the tribunals of the Office held that the testimony showed that the invention was not the joint invention of the joint applicants, since Park D. Roberts had no part in the alleged conception of the application of the rib member to the prior Bruckman machine. Priority was therefore awarded to Bruckman on the authority of the decisions of the Court of Appeals of the District of Columbia in *Lemp* v. *Randall and Bates* (146 O. G., 255; 33 App. D. C., 4501) and *Mills and Conn* v. *Darlington*, (178 O. G., 321; 38 App D. C., 95.) No appeal was prosecuted from the decision of the Commissioner.

It is contended that the Examiner was in error in holding that this application is barred because filed more than two years after the grant of the patent to Bruckman, since it should be regarded as a continuation of the joint application of Roberts and Roberts.

It is also argued that it was an erroneous view of the law to decide priority in favor of Bruckman for the reason above stated and that the practice referred to in the case of *Mead* v. *Brown* (48 O. G., 397) should have been followed. In that case it was said:

"An interference was then declared between the patent to Preston and the joint application of Brown and Sheldon. This interference was decided against Preston, the Office holding that Brown alone was the original and first inventor, but that inasmuch as Brown was a joint applicant with Sheldon, no award could be made in favor of Brown alone."

The decision referred to was rendered long prior to the decision of the court of appeals in *Lemp* v. *Randall and Bates, supra*. In the latter case the Commissioner had refused to consider the question whether Randall and Bates were joint inventors, holding that that question did not relate to priority and that the question to be determined in the interference was whether, assuming Randall and Bates to be joint inventors, they or Lemp first made the invention. The court of appeals, however, held that this was an error and that if Randall and Bates were not in fact joint inventors then priority should be awarded to Lemp.

Applicant has cited no decision in which either in the Patent Office or in the courts a sole application has ever been held to be a continuation of a joint application. There has been, however, a uniform line of decisions in the Patent Office to the contrary. The reasons for this holding are fully stated in the decision of Commissioner Mitchell in *ex parte MacLay*, (49 O. G., 1043,) and he points out the distinction between a case such as the present and a case where the second application was filed by the same person as the first, as in the case of *International Tooth Crown Co.* v. *Richmond*, (30 Fed. Rep., 775.) A similar conclusion was reached by Commissioner Ewing in *Prioleau and Prioleau*, (123 MS. Dec., 164.)

In the *American Casting Co.* v. *Pittsburg Co.* (237 Fed. Rep., 590; 237 O. G., 621) the Circuit Court of Appeals of the Third Circuit held that a patent granted on a sole application was invalid where it had been granted on an application filed more than seven months after the filing in England of a joint application by three applicants, one of whom was the sole applicant here, the English patent having been granted before the patent was granted in this country. This holding was made notwithstanding there had been filed in this Office an application by the same three applicants who filed the application in England and that this application was pending when the sole application was filed.

It is argued that that decision is in favor of applicant's contention rather than adverse to it, because the court based its holding upon the fact that the sole application was not filed as a division of the joint application. This contention is not believed to be well founded, for the reason that the record of the application on which the United States patent was granted shows, as appears from the decision of the court, that the patent was refused in view of the English patent, but afterward granted on the ground that the sole application should have the benefit of the prior joint application and that the seven months' limit would therefore not apply. The court quotes a ruling of the Patent Office in granting the patent in which it was said:

The same ruling against him which brought him within the bar of the foreign patent should be made in favor of him to put him without that bar. That being so, this applicant is entitled, for this purpose, to the date of filing of the joint application as the date of filing an application in this country for the invention of the later foreign patent.

After making this quotation, the court said:

"We cannot accede to this reasoning. • • • So far as time is concerned, the sole application had to stand on its own independent status."

In the brief filed on this appeal it is stated that there was a clear intimation in the decision of the Examiners-in-Chief that the sole application ought to be treated as a continuation of the joint application. It is not thought that the decision is susceptible of that construction. All that the Examiners-in-Chief said was that they were bound by a long and practically uniform line of decisions and that—

"if the practice in the respect just noted is to be changed it should be done by the head of the Office rather than by some subordinate tribunal."

This obviously proper statement that the Examiners-in-Chief should not undertake to reverse the decisions of the Commissioner is very far from being an intimation that they thought the practice announced in those decisions was wrong.

The decision of the Examiners-in-Chief is affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. La.) The Layne patent, No. 821,653, for well mechanism, *Held* valid, but not infringed. *Getty* v. *Layne*, 262 Fed. Rep., 141.

(U. S. C. C. A. Ill.) The Barney patent, No. 885,135, for separable cuff link-buttons, *Held* not infringed. *F. Lewald & Co.* v. *Barnes*, 262 Fed. Rep., 137.

(U. S. C. C. A. N. Y.) The Thompson patent, No. 1,252,862, for an improved pin-ticket device to be attached to textile and other articles offered for sale, *Held* valid. *A. Kimball Co.* v. *Noesting Pin Ticket Co.*, 262 Fed. Rep., 148.

(U. S. C. C. A. Cal.) The Zidell design patent, No. 52,720, for children's rompers, *Held* valid and not infringed. *Zidell* v. *Dexter*, 262 Fed. Rep., 145.

Patents Nos. 1,337,181 to 1,337,985.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 273—No. 3. TUESDAY, APRIL 20, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF APRIL 20, 1920	413
DISCLAIMER	413
NOTICE	413
ASSISTANT EXAMINERS WANTED	413
APPLICATIONS UNDER EXAMINATION	414
PATENTS GRANTED	415
REISSUES	568
DESIGNS	569
TRADE-MARKS—REGISTRATION APPLIED FOR	587
TRADE-MARK REGISTRATIONS GRANTED	619
TRADE-MARK REGISTRATIONS CANCELED	625
LABELS	627
PRINTS	628
DECISIONS OF THE U. S. COURTS—	
Wegner *v.* Bobbitt	629
Phillips *v.* Hudnut and Mack	629
William Waltke & Company *v.* Geo. H. Schafer & Company	630
ADJUDICATED PATENTS	632
ADVERSE DECISIONS IN INTERFERENCE	632
CHANGES IN CLASSIFICATION	633

Issue of April 20, 1920.

Patents	805—No.	1,337,181 to No.	1,337,985, inclusive.
Designs	94—No.	54,884 to No.	54,977, inclusive.
Trade-Marks	199—No.	130,252 to No.	130,450, inclusive.
Labels	39—No.	21,805 to No.	21,843, inclusive.
Prints	9—No.	5,245 to No.	5,253, inclusive.
Reissues	6—No.	14,841 to No.	14,846, inclusive.
Total	1152		

Disclaimer.

1,225,655.—*Harry Landsiedel*, Cincinnati, Ohio. ADDING AND RECORDING MACHINE. Patent dated May 8, 1917. Disclaimer filed April 5, 1920, by the assignee, *The Dalton Adding Machine Company*.

Enters its disclaimer—

"To claims 1 and 2 of said patent, which are in the following words, to-wit.

"1. In an adding machine, the combination of type-carriers, spring actuated hammers for driving the type on said type-carriers to print, a rock shaft, mechanism for positioning said type-carriers for printing as an incident to the rocking of said shaft in one direction, and mechanism for operating said hammers to drive the type controlled by said rock shaft and arranged to operate during the initial movement of said rock shaft toward its starting point after said type-carriers have been positioned.

"2. In an adding and recording machine, type-carriers movable to and from recording position, hammers for driving the type on said type-carriers to print, actuators for said hammers, a rock shaft, automatic mechanism for moving said type-carriers to and holding them in recording position while said rock shaft is moving in one direction, and mechanism, controlled by said rock shaft during the initial portion of its movement to its starting point after said type-carriers have been positioned, for operating said actuators to drive the type to print."

NOTICE.

AMENDMENT TO PATENT LAWS—PAYMENT OF FEES.

Department of the Interior,
United States Patent Office,
Washington, D. C., March 11, 1920.

Attention is directed to the following excerpt from the deficiency appropriation act, approved March 6, 1920.

R. F. WHITEHEAD,
Acting Commissioner.

Hereafter all patent fees shall be paid to the Commissioner of Patents, who shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury shall direct, and said Commissioner is authorized to pay back any sum or sums of money paid to him by any person by mistake or in excess of the fee required by law.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for May 5-7 and June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.

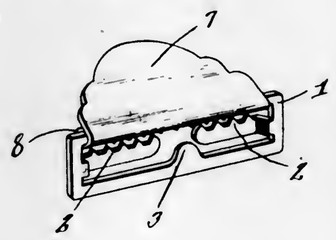
Condition at Close of Business April 10, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Jan. 9	Nov. 20	384
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 2	Oct. 18	964
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 29	Nov. 19	462
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Sept. 20	Feb. 13	952
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 18	Jan. 7	302
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 5	Jan. 28	492
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 23	Jan. 29	740
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 4	Mar. 20	331
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 14	Jan. 2	403
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Sept. 3	Dec. 1	1,026
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Dec. 12	Nov. 12	631
222	12. Machine Elements	Aug. 11	Feb. 5	1,205
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Sept. 12	Feb. 20	1,072
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Oct. 11	Jan. 19	507
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 18	Jan. 20	988
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 27	Nov. 1	852
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 6	Mar. 5	253
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 20	Dec. 1	837
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Oct. 13	608
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 7	Dec. 29	669
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 10	Feb. 3	391
249	22. Aeronautics; Firearms; Ordnance	Jan. 3	Feb. 6	245
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 27	Dec. 26	557
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 16	Jan. 15	541
315	25. Acitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 1	Mar. 1	184
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	July 28	Sept. 2	727
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Jan. 14	Feb. 21	520
225	28. Internal-Combustion Engines	Jan. 6	Dec. 20	618
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 10	Feb. 14	641
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 13	979
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 22	Oct. 18	929
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 1	Jan. 10	1,103
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 1	Jan. 29	461
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Mar. 3	Mar. 9	150
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 1	Mar. 11	464
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 8	Jan. 7	1,078
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Oct. 11	Nov. 12	1,244
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Jan. 21	537
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Aug. 1	Oct. 2	990
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 28	Feb. 6	680
125	41. Resilient Tires and Wheels	Sept. 25	Jan. 19	839
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Oct. 20	Oct. 24	903
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 3	Jan. 5	714
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Nov. 17	Feb. 20	286
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Oct. 1	Jan. 6	750
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway- Brakes; Wooden Buildings.	Sept. 18	Nov. 4	751
	Oldest new case, July 28; oldest amended, Sept. 2. Total number of applications awaiting action			30,960
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 16	Feb. 1	2,645
	Designs	Oct. 6	Jan. 22	1,198
	Labels and Prints	Jan. 2	Mar. 22	688

PATENTS

GRANTED APRIL 20, 1920.

1,337,181. BUCKLE. ALKOURY ANTONIOUS ABIZAID, Washington, D. C. Filed Aug. 31, 1916. Serial No. 117,848. 3 Claims. (Cl. 24—191.)



3. A buckle comprising a frame, means on said frame offset outwardly therefrom and formed with teeth adapted to bite into the material of the fabric and coöperating with said frame to clamp the fabric, and a lug on said frame coöperating with said means to securely hold the fabric to the frame, said lug being arranged centrally of said means and of said frame, said lug having a roughened surface confronting said means.

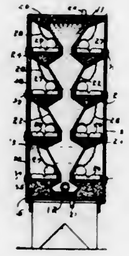
1,337,182. RECEPTACLE-STOPPER. RUSSELL G. ALLEN, Toledo, Ohio. Filed June 27, 1919. Serial No. 307,230. 6 Claims. (Cl. 215—88.)



1. A stopper means having a stopper member provided with a lip at one edge for engaging under a receptacle shoulder, a clamping member for engaging the receptacle shoulder at the opposite side of the receptacle neck to said lip, and a member connected to said clamping member at the outer side of the stopper member and movable in a plane longitudinal to the receptacle to impart opposed clamping movements to the stopper and clamping members.

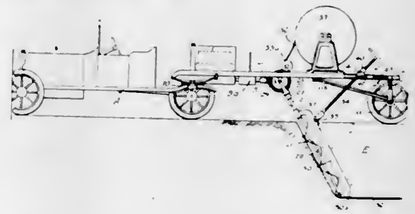
1,337,183. INCUBATOR. CECIL H. ABBOTT, Chester, Va., assignor of one-half to Jefferson Lodrick Fountain, Jr., Raleigh, N. C. Filed Nov. 26, 1917. Serial No. 203,991. Renewed Sept. 12, 1919. Serial No. 323,433. 20 Claims. (Cl. 119—36.)

1. In an incubator, a casing provided with an egg compartment, means for heating the inner wall thereof, a depending curtain supported at a distance from said wall and having a free end of sufficient length to contact with



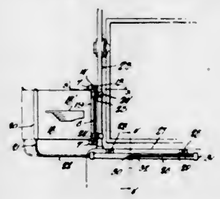
said wall and the upper surface of an egg intermediate the latter and the heated wall, and means for retaining an egg in contact with said curtain.

1,337,184. CABLE-LAYING MACHINE. LYTLE S. ADAMS, Venice, Calif. Filed Dec. 16, 1918. Serial No. 267,050. 8 Claims. (Cl. 111—5.)



6. Machinery of the character described, embodying a movable carriage, a hollow rotatable shaft mounted at its upper end on the carriage and adapted to be projected downwardly therefrom into the soil, means to rotate the hollow shaft, a rotary soil disturber on the shaft, and a stationary cable feeding tube extending down through the hollow shaft and having its lower end bent rearwardly to discharge a cable rearwardly at the lower end of the hollow shaft.

1,337,185. VEHICLE-SIGNALING DEVICE. CHARLES AHLSWEDE, Manitowoc, Wis. Filed Aug. 7, 1919. Serial No. 315,969. 5 Claims. (Cl. 116—46.)

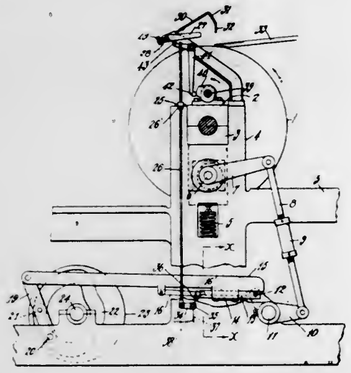


1. A device of the class described comprising an extendible indicator, means for extending the indicator, and

releasable means operable automatically when the indicator reaches its extended position to secure the same in extended position.

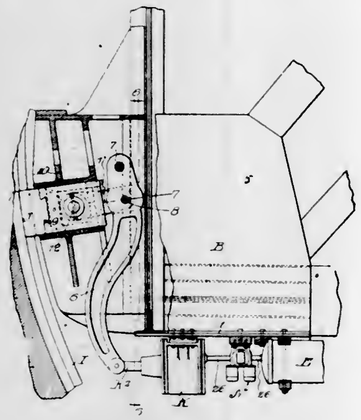
2. A signal device of the class described comprising an indicator, means for moving the indicator to and from indicating position, and means operable by wind pressure against the indicator when in indicating position to releasably secure the same in its indicating position.

1,337,186. PRINTING-PRESS. JAMES A. ALLEN, Providence, R. I., assignor of one-half to Benjamin F. Briggs, Providence, R. I. Filed June 8, 1916. Serial No. 102,410. 15 Claims. (Cl. 101—284.)



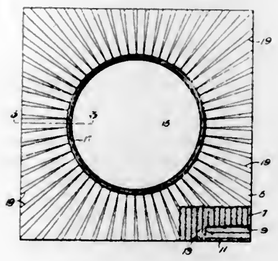
1. In a printing-press, the combination with the impression-cylinder and the feed-table of means interposed between said impression-cylinder and the cam shaft for raising and lowering said impression-cylinder, means for disconnecting said impression-cylinder from said cam shaft and means actuated by the movement of a sheet of paper onto said impression-cylinder for connecting the same with the cam shaft.

1,337,187. BRIDGE. HILMAR ANDRESEN, Chicago, Ill. Filed June 23, 1919. Serial No. 305,975. 10 Claims. (Cl. 14—41.)



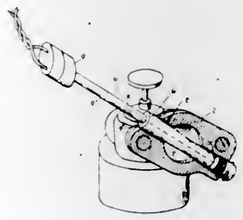
1. In a trunnion bascule bridge, a stationary arched brake rail fixed in the bridge abutment, a movable brake shoe upon the swinging bridge, and means also upon the bridge for operating the brake shoe to clamp said rail.

1,337,188. BARREL-COVER. EDWARD H. ANGIER, Framingham, Mass. Filed Aug. 12, 1918. Serial No. 249,457. 7 Claims. (Cl. 217—81.)



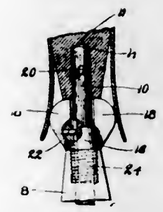
1. A cover for barrels or the like comprising a laminated sheet of paper layers united by a tentous adhesive having a central portion corresponding to the mouth of the barrel and a marginal portion creased to facilitate the gathering of the same over the sides of the barrel.

1,337,189. VAPORIZING-STOPPER. ELLSWORTH W. AUSTIN, Plymouth, Conn. Filed June 2, 1919. Serial No. 301,333. 4 Claims. (Cl. 219—38.)



1. A device of the class herein described comprising a stopper shell having a tapered exterior for displaceably closing the stopper-receiving opening of a joint-block, and housing an electrical heating element.

1,337,190. WORK-SUPPORT. EDWARD H. BASTABLE, South Braintree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 20, 1916. Serial No. 110,309. 8 Claims. (Cl. 12—126.)



1. A support for a last having, in combination, a last pin, upper spreading devices mounted on the last pin and normally disposed substantially longitudinally of the last, and means for moving the upper spreading devices into upper spreading position substantially transversely of the last as the last is being mounted upon the last pin.

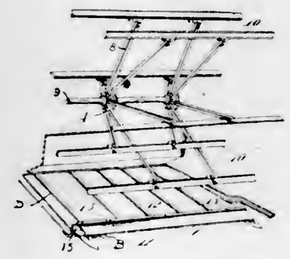
1,337,191. PROCESS FOR DEPOSITING HYDRATE OF ALUMINA AND SIMILAR GELATINOUS PRECIPITATES FROM THEIR SALTS. MAX BUCHNER, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 27, 1915. Serial No. 4,747. Renewed June 26, 1919. Serial No. 306,800½. 10 Claims. (Cl. 23—13.)

1. The process of precipitating non-colloidal metal hydroxids from salts of those metals that produce colloidal hydroxids, which comprises effecting a substantially dry reaction between such salt and an alkali, thereby obtaining a hydrate that can be readily filtered and washed.

1,337,192. MANUFACTURE OF METAL HYDROXIDS. MAX BUCHNER, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Aug. 26, 1915. Serial No. 47,487. Renewed June 26, 1919. Serial No. 306,801½. 5 Claims. (Cl. 23—13.)

1. Process of producing metal hydroxids in readily filterable and readily washable form, which comprises reacting on a metal salt capable of forming a hydrate with concentrated ammonia several times in excess of the quantity required for the reaction, and removing the reaction liquor with the ammonium salts formed, and immediately using said liquor for reacting on a new quantity of salt while introducing ammonia gas thereinto.

1,337,193. BINDER. JOHN ALBERT CALVERT, Carberry, Manitoba, Canada. Filed Aug. 5, 1919. Serial No. 315,429. 1 Claim. (Cl. 56—220.)



In a binder and in combination with a cutting bar, a metallic plate adapted to fit above the bar having its front edge overhanging the cutting knives of the bar inclined relatively to the back portion of the plate, and a reel having slats of sheet metal convexed longitudinally.

1,337,194. HORSESHOE. GEORGE J. CAPEWELL, Hartford, Conn. Filed Apr. 28, 1919. Serial No. 293,075. 14 Claims. (Cl. 168—21.)



2. A horseshoe comprising two parts having overlapping inner edges, registering slots extending transversely of said shoe in said overlapping edges, rivets passing through said slots to connect said parts and permit adjustment thereof and to finally and permanently secure said parts in their adjusted position, and means for securing the shoe to a hoof.

12. A horseshoe comprising a base, clips extending from said base, and spur plates attached at their upper ends to said clips and projecting downwardly and away from the clips and having teeth to engage the outer surface of a hoof.

1,337,195. SANITARY CONTAINER. CHARLES O CHROMASTER, Milwaukee, Wis. Filed May 19, 1916. Serial No. 98,514. 1 Claim. (Cl. 220—24.)



A sanitary container comprising a shell having inwardly extending flanges at the base portion thereof, said shell being pyramidal in shape so that it can stand upright upon the base portion only, a removable flexible bottom having flanges adapted to interlock with the flanges on the shell to form a recess in the bottom of the container, said bottom having a contractible knob disposed within the recess in the bottom of the container whereby the contraction of the knob will release the interlocking connection between the flanges on the shell and bottom to open the container.

1,337,196. PEN ATTACHMENT. CHARLES F. CLARKE, Madison, Wis. Filed Oct. 2, 1919. Serial No. 327,932. 6 Claims. (Cl. 120—115.)

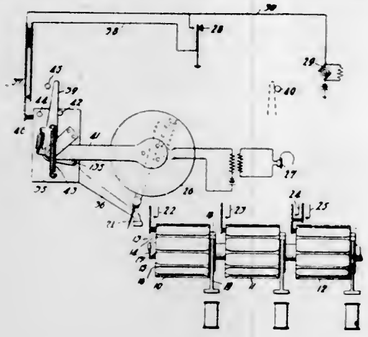


1. An ink-retaining and feeding attachment for a pen nib, comprising a slotted, corrugated element, terminating at one end in a split, nib-contacting portion, and terminating at the other end in a mounting portion, and a second element substantially coextensive with said corrugated element, which, at one end, is bent into contact with said nib-contacting portion of the corrugated element.

1,337,197. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 9, 1917. Serial No. 179,548. 11 Claims. (Cl. 179—6.)

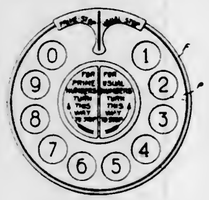
1. In a telephone exchange system, in combination, calling subscribers' substations, sending devices at said sta-

tions respectively, a central office, an operator's position at said office, and a variably adjustable phonographic de-



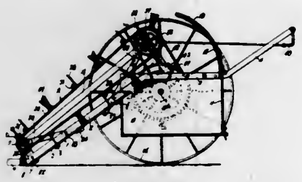
vice at said position arranged to be variably adjusted by any of said sending devices.

1,337,198. CALLING DEVICE. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 12, 1917. Serial No. 180,124. 6 Claims. (Cl. 179—90.)



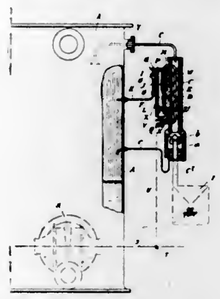
1. In a calling device, a rotatable shaft, an impulse wheel on said shaft, and sets of coöperative contacts arranged to be actuated by said impulse wheel in accordance with the rotation of said shaft, one set being actuated by the clockwise rotation only of said shaft and another set being actuated by the counter-clockwise rotation only of said shaft.

1,337,199. SWEEPER. FRED L. COLLIS, Iowa Falls, Iowa. Original application filed Dec. 13, 1916, Serial No. 136,760. Divided and this application filed Dec. 17, 1917, Serial No. 207,607. Renewed Sept. 13, 1919. Serial No. 323,644. 5 Claims. (Cl. 15—17.)



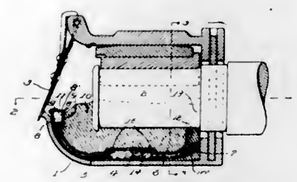
1. In sweepers, the combination of a receiving casing, ground wheels rotatably mounted at each end thereof, an inclined trough carried by said casing, a conveyer frame rockably mounted on said trough so as to be adjustable longitudinally and toward and away from the trough, the lower end of said trough and frame being located adjacent the surface to be swept, an endless conveyer carried by said conveyer frame and provided with a plurality of spaced sweeping members operative in said trough adapted to contact with said surface and engage and elevate material into and along the trough, the lower run of said conveyer being operative in the trough, means for securing the conveyer frame in adjustment, means for adjusting the conveyer vertically in said frame, and driving connections between said ground wheels and the conveyer.

1,337,200. CONDENSING APPARATUS. JEAN BAPTISTE COTTARD, Paris, France. Filed July 10, 1918. Serial No. 244,301. 16 Claims. (Cl. 257—24.)



1. In a condensing apparatus, a main condenser, exhaust-means communicating with the main condenser, and a vacuum-augmenter comprising an auxiliary condenser interposed in the communication between the main condenser and the exhaust-means, a refrigerating chamber provided with means for reducing the pressure therein, and means for circulating a fluid medium through the refrigerating chamber and the auxiliary condenser, said medium being cooled in the refrigerating chamber by evaporation effected by the reduced pressure in said chamber and the cooled medium in passing through the auxiliary condenser condensing the moisture in the vapor drawn through said auxiliary condenser from the main condenser by the exhaust-means.

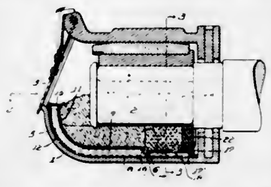
1,337,201. LUBRICATOR FOR JOURNAL-BOXES. WILLIAM E. CRIST, Baltimore, Md. Filed Jan. 27, 1919. Serial No. 273,263. 10 Claims. (Cl. 64—24.)



1. In lubricating devices for journal boxes, the combination of a lubricant reservoir located in the lower part of the journal box, a feed conduit leading from said reservoir to a packing means provided at an end of the bearing portion of the journal, and a supply conduit leading to said reservoir.

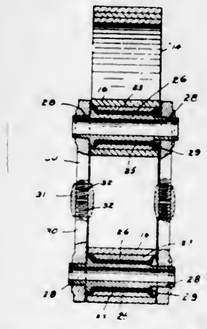
1,337,202. LUBRICATOR FOR JOURNAL-BOXES. WILLIAM E. CRIST, Baltimore, Md. Filed June 27, 1919. Serial No. 307,106. 2 Claims. (Cl. 64—24.)

2. In lubricating devices for journal boxes, the combination of a closed lubricant container located in the lower part of the journal box, the lower and upper walls of said container being curved and concentric, an upwardly extending channel like member provided at the inlet end of said container and an open extension at the other end of said container, said extension being perforated and adapted to support packing between the same



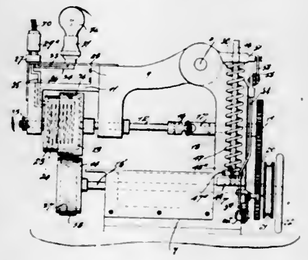
and the journal, said inlet channel being located at a higher level than said outlet channel and filtering means for said inlet channel.

1,337,203. BEARING. ERNEST G. DANN, Chicago, Ill., assignor to The Dann Products Company, a Corporation of Ohio. Filed Sept. 27, 1917. Serial No. 193,440. 8 Claims. (Cl. 64—24.)



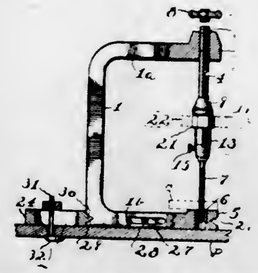
1. The combination with a leaf spring and an element with which the end of the spring is connected, of means for providing said connection comprising two members one arranged within the other, the outer member being reduced in thickness at its end and the inner member being provided with enlarged heads which lie within the spaces formed by reducing the thickness of the ends of the outer member, and a body of metallic lubricant confined between said inner and outer member.

1,337,204. MACHINE FOR PRESSING SEAMS. JACOB DENEMARK, Trenton, N. J. Filed June 23, 1919. Serial No. 306,067. 5 Claims. (Cl. 68—9.)



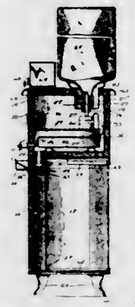
1. In a pressing device, a standard, a stub-shaft carried thereby, an arm pivotally connected to said standard, a shaft carried by said arm, a pressing-drum carried by the shaft supported by said arm, a universal joint connecting said shafts, means to support the goods to be pressed, and means to actuate the arm to force the pressing-roll carried thereby against the goods to be pressed.

1,337,205. HAND CLAMP AND DRILL OUTFIT. GEORGE DINGMAN, Flint, Mich. Filed Apr. 23, 1919. Serial No. 292,030. 3 Claims. (Cl. 77—19.)



1. An implement of the character described, including a frame formed with spaced arms, one of the arms being provided with a threaded opening and the other arm being provided with a clearance opening, a feed stem fitted in the threaded opening and terminating in a head, a chuck swiveled on the feed stem and formed with a socket to receive a drill bit adapted to operate through the clearance opening, means for operating the chuck, a base having an opening to receive an arm of the frame, a clamping bolt connecting the frame to the base and passing loosely through the frame so that when the bolt is loosened the clamping frame can be rotated to project from either side of the base, means for holding the frame rigidly in an adjusted position upon the base, and means for securing the base to the member to be drilled.

1,337,206. LIQUID COOLING AND DISPENSING APPARATUS. HENRY DOERING, CHARLES DOERING, Jr., and MAX DOERING, Chicago, Ill. Filed Apr. 5, 1915, Serial No. 19,299. Renewed Sept. 5, 1919. Serial No. 321,961. 6 Claims. (Cl. 225—40.)

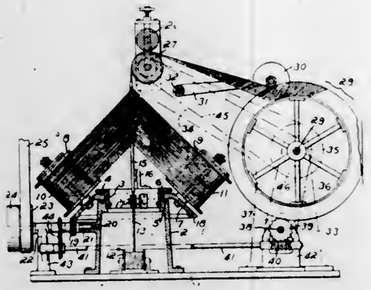


1. An apparatus of the class described, comprising a cooling chamber, a holding member arranged in the upper part of said chamber, a liquid-receiving member arranged in said chamber and provided with a reduced upwardly presented portion arranged to extend into said holding member, a container or bottle having its orifice within said holding member, and means arranged in the orifice of the container or bottle adapted to normally close said orifice, said means being arranged to receive said upwardly presented portion to effect communication with the liquid-receiving member.

1,337,207. PROCESS OF FORMING TIRES AND MECHANISM FOR PRACTISING THE SAME. HENRY J. DOUGHTY, Providence, R. I., assignor to Doughty Tire Company, Portland, Me., a Corporation of Maine. Filed Dec. 17, 1915. Serial No. 67,465. 13 Claims. (Cl. 154—11.)

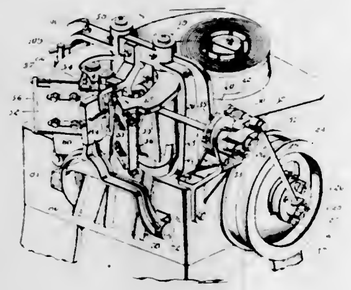
1. Mechanism for forming tires comprising means to space a pair of strands in general parallel relation, a sup-

port for a series of unwoven parallel strands, said support being mounted in inclined relation to said pair of



strands, and means to revolve said support about said pair of strands.

1,337,208. CUTTING-MACHINE. HARRISON H. EATON, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 4, 1916. Serial No. 76,175. 23 Claims. (Cl. 164—49.)



1. In a machine for cutting pieces from a strip of material curved in a plane transverse to its length, the combination of a cutting block means for feeding the strip of material across said block, said block having a face shaped to conform substantially to the contour of the portion of said strip that bears against it, a pair of knives arranged to cut through the strip and against said block, and means for operating said knives.

1,337,209. HIGH-SPEED STEEL. WALTER LOTHAR EDUARD EILENDER, Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Mar. 6, 1917. Serial No. 152,724. 1 Claim. (Cl. 75—1.)

A steel-alloy for use as high speed steel of an average cutting-capacity consisting of iron and 0.5–0.8 p. c. C, 0.2–0.4 p. c. Mn, 0.2–0.4 p. c. Si, 6.0–10.0 p. c. Mo. and 3.0–6.0 p. c. Cr.

1,337,210. HIGH-SPEED TOOL-STEEL. WALTER LOTHAR EDUARD EILENDER, Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Mar. 6, 1917. Serial No. 152,726. 2 Claims. (Cl. 75—1.)

1. The herein described high speed steel, containing besides iron also 0.6–1.2 p. c. C, 1.0–2.0 p. c. Mn, 0.1–0.3 p. c. Si, 3.0–10.0 p. c. Cr, 1.0–5.0 p. c. Co.

1,337,211. MILKING-MACHINE. JOHN G. G. EKLUNDH, CLYDE ODEN, and JOHN A. SCHMITT, Columbus, Ohio, assignors to The Universal Milking Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 5, 1918. Serial No. 220,429. 1 Claim. (Cl. 31—102.)



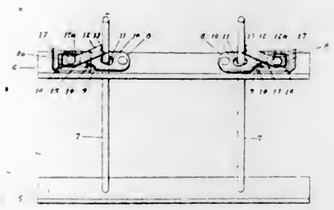
A teat cup comprising a substantially tubular casing, a flexible lining disposed within said casing and spaced from the inner wall of the latter so as to define an interposed suction chamber therebetween, the upper portion of said lining being lapped over the upper peripheral edge of said casing to encircle the outer portion of said edge, and a cap member resiliently formed to frictionally engage the overlapped portions of said lining to unite the latter to said casing, the bore of said cap member and the interior wall of said lining being disposed in continuing vertical registration or alinement whereby a teat receiving passage is provided free of matter-collecting crevices.

1,337,212. MOUNT FOR NAILS OR THE LIKE. WILLIAM E. ELLIOTT, Grand Rapids, Mich., assignor to American Button & Fastener Company, a Corporation of Maine. Filed Jan. 17, 1916. Serial No. 72,650. Renewed May 21, 1918. Serial No. 235,898. 14 Claims. (Cl. 1—56.)



1. In combination, an elongated mounting strip having spaced apart upstanding projections extending lengthwise of the strip, and a plurality of articles having shanks and heads, said shanks passing through the projections and being located at an acute angle thereto and with the heads of the articles partially overlapping one another.

1,337,213. TEMPORARY BINDER. WILLIAM FELDMANN, Chicago, Ill. Filed July 17, 1919. Serial No. 311,468. 2 Claims. (Cl. 129—4.)



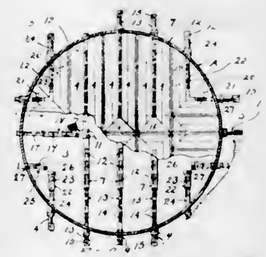
1. In a temporary binder, a base, an impaling pin rising from the base, a follower slidably mounted on the pin, a plate mounted on top of the follower and having an arched portion, a spring locking strip secured to the plate and engageable with the pin for locking the follower thereby, and a lever for disengaging the locking strip, said lever having a rotatable transverse portion journaled beneath the arch and provided with a lifting finger engageable with the locking strip, the aforesaid plate and the arch having a slot in which the finger works, one end of the slot operating as a stop to limit the swing of the finger in a direction to release the spring strip.

1,337,214. FIRE-GRATE. JOSEPH J. FOWDEN, Philadelphia, Pa. Filed June 11, 1919. Serial No. 303,371. 4 Claims. (Cl. 126—175.)



1. A fire grate consisting of bars arranged close enough together to normally prevent the passage of ash between them and having on top teeth low enough to produce a filing action on the lower ash surface and spaced apart to provide clearance and reversely disposed on adjacent bars and said bars having on their sides between the teeth spaced concavities small enough to exclude the passage of ash when out of alinement, and means for reciprocating the bars endwise, substantially as described.

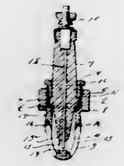
1,337,215. MEANS OF SEDIMENT-DRAINAGE. BEN F. FOWLER, Midian, Kans. Filed Mar. 24, 1919. Serial No. 284,864. 1 Claim. (Cl. 210—5.)



In a tank adapted to contain crude oil, sediment and water in combination, means for separating and removing said sediment and water from such combination comprising a plurality of V-shaped troughs supported from the tank bottom and within which troughs, said sediment and water are adapted to collect; a plurality of sleeves resting on the bottom of said tank, each sleeve registering with and supporting the base of one of said troughs; each of said sleeves extending through a stuffing box in the wall of said tank, a plurality of ports in each sleeve upwardly opening to connect with its superposed trough, a pipe rotatably arranged within said sleeve and stuffing box, ports in said pipe adapted to register with the ports in said sleeve and a valve on said pipe without the tank; the pipes within the sleeves being normally positioned so that the pipe and sleeve ports do not register but when said pipes are rotated to occasion port registration and said valve is opened to allow for drainage of said sediment and water without the tank.

1,337,216. SPARK-PLUG. ABRAM GATES, Carroll county, near Burnetts Creek, Ind. Filed Apr. 15, 1919. Serial No. 290,130. 1 Claim. (Cl. 123—169.)

A spark plug comprising a casing, said casing having an ogival shaped housing at its lower end, said housing having an ogival shaped chamber therein, an insulated electrode disposed in said casing and having its lower end in said ogival chamber, a convexed upwardly extending lug in the apex end of the housing chamber and forming an electrode adapted to coöperate with the first named electrode, and radially disposed slots in the ogival shaped housing, the lower ends of said slots being formed by the convexed surface of the convex lug thereby forming down-



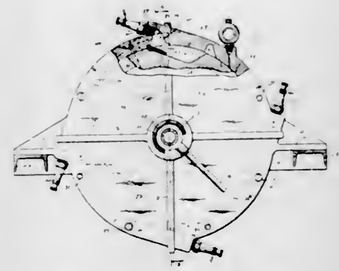
wardly extending surfaces at the lower ends of the slot substantially vertically disposed so that the flash will enter the chamber radially in a horizontal plane and downwardly in a substantially vertical plane and the upper ends of the slots terminating above the arcing points of the electrodes.

1,337,217. BATTERY-SWITCH. CHARLES A. GILLINGHAM, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Feb. 4, 1916. Serial No. 76,086. 5 Claims. (Cl. 200—52.)



2. In a circuit closing device for electric batteries, a hollow insulating casing, a member adapted to engage an electrical terminal, a spring in the hollow space of the casing electrically connected to said member, means on said casing for engaging a second electrical terminal, a second spring electrically connected with said means, and means for moving said springs to close the circuit.

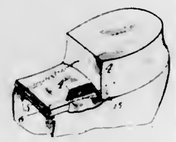
1,337,218. ROTARY ENGINE. FREDERICK E. GLAZE, Denver, Colo. Filed Sept. 23, 1918. Serial No. 255,259. 5 Claims. (Cl. 123—15.)



1. In a rotary engine, the combination of a stator and a rotor, annularly constructed and mounted in self-contained relation, the said stator and rotor being respectively provided with a compression pocket and an expansion pocket, disposed and functioning as set forth, and the said expansion pocket being formed with a forward confining wall of steep declivity, merging into a receding substantially elongated bottom wall, and with a restricted

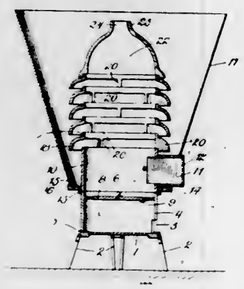
outlet discharging from the rear thereof; intermittently controlled inlet means for delivering operating charges to said compression pocket; exhausting means for said expansion pocket; and a retractile abutment automatically coöperating with said expansion pocket, to ride along therein and function as a variable partition therefor, substantially as described.

1,337,219. WELT-SHOE AND COUNTER THEREFOR. JOHN B. HADAWAY, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 8, 1916. Serial No. 108,158. 5 Claims. (Cl. 36—17.)



1. A molded counter provided with an inturned flange portion at the forward ends of the counter and around the heel seat portion of the counter and having the portion of the flange in the region of the heel breast line of the counter cut away so as not be included in the inseam of a shoe.

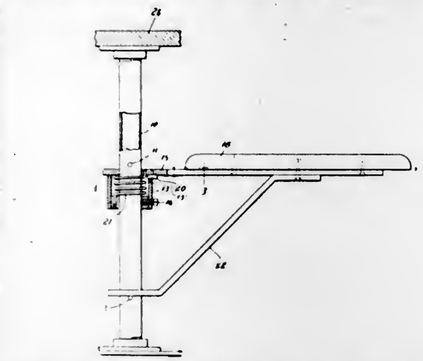
1,337,220. SAND-DRIER. CHARLES W. HALL, Keystone, W. Va. Filed June 10, 1919. Serial No. 303,061. 4 Claims. (Cl. 34—34.)



1. A sand drier comprising a fire-box, an annulus supported externally upon the fire-box and provided with openings therethrough, a hopper resting on said annulus and rising therefrom above the fire-box, the openings in the annulus being at the inner side of the wall of the hopper, a plurality of vertically spaced rugs disposed within the hopper above the fire-box, and a cap supported by the uppermost ring.

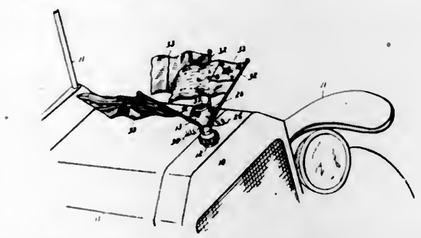
1,337,221. REVOLUBLE SEAT. CHRISTEN M. HANSEN, Jersey City, N. J. Filed Feb. 1, 1919. Serial No. 274,430. 2 Claims. (Cl. 155—81.)

1. In a device of the character specified, in combination, a support, a fixed sleeve upon the support, a seat-carrying member slidable over and revoluble upon the support and abuttable upon the sleeve, a recess within the upper face of the sleeve, a second recess within the first recess, a projection upon the lower face of the seat-carrying member abuttable upon the first recess and capable of insertion within the second recess, means whereby a weight upon the seat-carrying member will place the projection within the second recess preventing the movement of the seat-carrying member, a spring tending to maintain the seat-carrying member in a



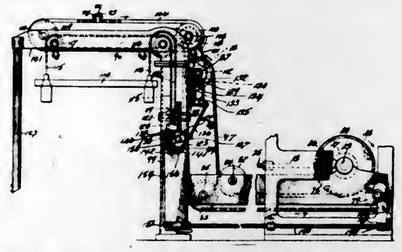
normal predetermined position and to remove the projection from the second recess when the weight is removed and means for limiting this removal movement.

1,337,222. FLAG-SUPPORT. CHARLES T. HARNED, Philadelphia, Pa. Filed May 31, 1919. Serial No. 300,839. 4 Claims. (Cl. 240—2.)



1. A flag supporting and illuminating device comprising in combination, a base having a tubular vertical portion, an electric incandescent light mounted on the vertical portion, a spherical casing enveloping the tubular vertical portion and light, an electric conductor housed in and insulated from the tubular vertical portion and serving to complete the circuit to the incandescent light, a lens mounted in the upper part of the spherical casing for projecting the rays of light upwardly, and a series of flag supporting members arranged tangentially to the spherical casing.

1,337,223. DELIVERY MECHANISM. ALFRED F. HARRIS, Warren, Ohio, assignor to The Harris Automatic Press Company, Niles, Ohio, a Corporation of Ohio. Filed May 1, 1916. Serial No. 94,580. 39 Claims. (Cl. 271—79.)



9. In a delivery mechanism, the combination with a cylinder of a printing or like machine, of an endless,

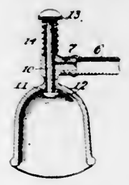
flexible carrier having a loop-path and moving at a constant speed, a second endless, flexible carrier having a loop-path and moving at a different constant speed, stock-engaging means mounted on each of said carriers, and means for changing the speed of one of said stock-engaging means, while transferring the stock from one carrier to the other carrier without changing the speed of either carrier.

1,337,224. BRASSIÈRE. CLARA V. HAVENS, New York, N. Y. Filed Oct. 15, 1919. Serial No. 330,710. 3 Claims. (Cl. 2—73.)



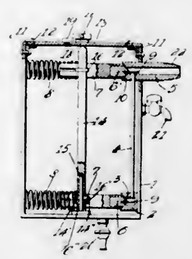
3. A brassière for a corset composed of front and rear members of fabric, and tabs extending downwardly from the front members, said tabs being adapted to cross each other slidingly, resilient loop-like members depending from said tabs and adapted to be attached to an adjacent portion of a corset, said tabs tapering downwardly, and a body band connected with the lower portions of said tabs.

1,337,225. ARTIFICIAL RESPIRATOR. CLARENCE L. HEALD, Cedar Rapids, Iowa. Filed May 8, 1918. Serial No. 233,382. 1 Claim. (Cl. 128—29.)



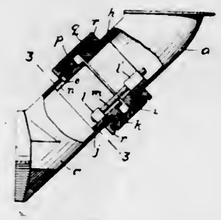
In an artificial respirator, and in combination with air-supplying means, substantially as described, a bell-shaped mouth-piece provided with an air-receiving T, a valve-stem mounted slidably therein, and provided with a valve-closing head, a push-button at the other end of the stem, and a compression spring between the button and a fixed part of the T.

1,337,226. PRIMING DEVICE. WILLIAM HEIDE, Detroit, Mich. Filed Jan. 31, 1918. Serial No. 214,658. 2 Claims. (Cl. 261—50.)



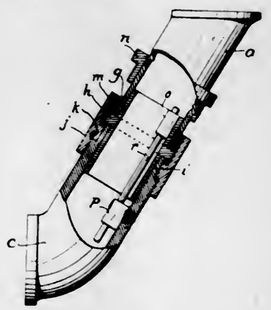
1. In a priming device, a reservoir, a feed pipe having communication with the interior of the reservoir, and adjacent the upper end thereof, said feed pipe having a threaded portion, a tubular valve member adjacent the bottom of the reservoir and having communication with the feed pipe, a valve member, having a tapered end coöperating with the tubular valve member, for controlling the flow of fuel thereto, a spring for normally holding the valve member to its seat on the tubular valve member, a shaft extending through the reservoir and having connection with the valve member for moving the valve member in one direction.

1,337,227. WATER CONNECTION FOR AUTOMOBILES. HARRY HOFFMAN and LOUIS HOFFMAN, Philadelphia, Pa. Filed Dec. 10, 1919. Serial No. 343,844. 6 Claims. (Cl. 285—145.)



1. Means for connecting the separated ends of water pipes in automobiles, comprising glands adapted to enter the respective pipes, and means adapted to separate said glands and effect a water-tight connection between them and their respective pipes.

1,337,228. WATER CONNECTION FOR AUTOMOBILES. HARRY HOFFMAN and LOUIS HOFFMAN, Philadelphia, Pa. Filed Feb. 10, 1920. Serial No. 357,624. 7 Claims. (Cl. 285—145.)

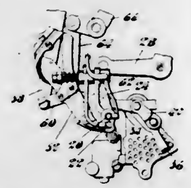


1. In a water tight connection between the separated ends of water pipes in automobiles, the combination with the pipes, one of which has an exteriorly threaded end, of a sleeve having two interior threads one of which engages said threaded pipe end, and a gland adapted to engage the other pipe end and having an exterior thread engaging the other thread of the sleeve.

1,337,229. FASTENER-SETTING MACHINE. PATRICK J. HORGAN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 16, 1918. Serial No. 254,238. 9 Claims. (Cl. 218—15.)

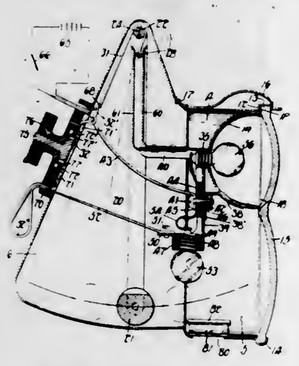
1. In a fastener-setting machine, work-feeding means including a fastener-inserting and work-feeding tool, means for varying the amplitude of feeding movement imparted by the feeding means, a raceway the delivery end of which is movable in one direction to carry a fastener to deliver-

ing position and in the opposite direction to clear the tool, and mechanism controlled by the work-feeding means



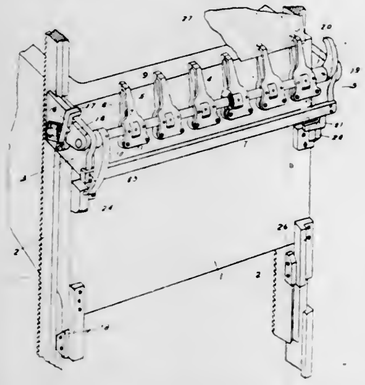
for reciprocating the delivery end in said directions with an amplitude of movement determined by that of the work-feeding movement.

1,337,230. SIGNAL-LAMP. GEORGE JACOBS and FREDERICK C. RUPPEL, Detroit, Mich. Filed May 5, 1919. Serial No. 294,660. 8 Claims. (Cl. 240—7.)



7. In a pendulum controlled signal lamp, a plurality of bulbs, one at a higher level than the other, a pendulum, means whereby the pendulum in swinging completes a circuit through one of the bulbs, the lower bulb being positioned just above the space described by the bulb of the pendulum when swinging.

1,337,231. GRIPPING DEVICE FOR SHEETS OF PAPER AND THE LIKE. EMERSON P. JENNINGS, Lehighton, Pa. Filed Oct. 20, 1919. Serial No. 331,905. 8 Claims. (Cl. 101—287.)



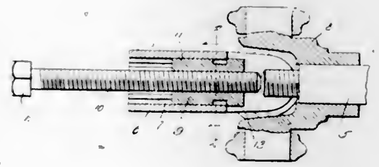
1. A gripping device comprising a shaft, a sleeve rotatably mounted on said shaft, a jaw mounted on said sleeve for rotatory movement relatively thereto and connected with said shaft for rotatory movement therewith, and a second jaw mounted on said sleeve for rotatory movement therewith relatively to said shaft.

1,337,232. NUMBERING-HEAD. MAXIMILIAN H. KERN, Ridgewood, N. Y., assignor to Roberts Numbering Machine Company, a Corporation of New York. Filed July 12, 1919. Serial No. 310,336. 12 Claims. (Cl. 101—89.)



5. In a numbering head, a digit wheel structure comprising a type wheel having digit types about the periphery thereof, a bearing opening enlarged upon one side of the center thereof, and a tongue projecting inwardly of said enlarged portion having a bearing face concentric with the other side of said opening, a ratchet wheel associated therewith having a true circular bearing opening therein and a lost motion connection between said type wheel and said ratchet wheel.

1,337,233. UNIVERSAL-JOINT PULLER. JAMES A. KNOWLES, Baltimore, Md. Filed June 18, 1919. Serial No. 305,115. 1 Claim. (Cl. 29—85.)



A device of the character described comprising a nut which is externally splined to prevent its rotation in a member adapted to receive and support the same, and a screw threaded through the nut and adapted when advanced to force one element off another, one end of the nut having a collar to abut against one end of the aforesaid member to take up the end thrust on the nut when the screw is advanced.

1,337,234. SUPPORTING-BRACKET FOR FIRE-EXTINGUISHERS AND THE LIKE. MELROSE G. KOPF, Dayton, Ohio, assignor to The Raiko Products Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 25, 1919. Serial No. 272,995. 9 Claims. (Cl. 248—20.)

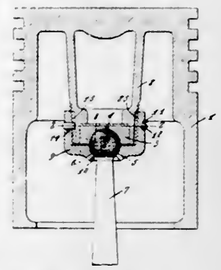
1. A supporting bracket for fire extinguishers and the like, comprising an arm having a yieldable seat to engage the discharge nozzle of said fire extinguisher, to close same and support said fire extinguisher, and a stop

mounted in fixed relation to said arm to engage said fire extinguisher at a point remote from said nozzle and



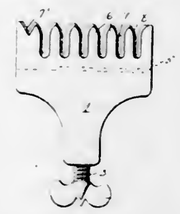
hold said nozzle in firm engagement with said yieldable seat.

1,337,235. BALL-AND-SOCKET JOINT. ADAM M. KUHN, Kearney, Nebr., assignor of one-third to Charles M. Kuhn and one-third to Jacob E. Herman, Kearney, Nebr. Filed Mar. 22, 1918. Serial No. 223,977. 1 Claim. (Cl. 287—87.)



In a device of the class described, a piston having an internal axial projection; a bearing seated in the end of the projection; a cap threaded on the outer surface of the projection; a connecting rod embodying a ball mounted to rock between the cap and the bearing; and a combined means for reinforcing the cap and the projection against the lateral thrust of the connecting rod and for holding the cap against rotation and detachment, said means consisting of a prehensile element substantially surrounding the cap and including a part passing through the cap and engaging the projection.

1,337,236. WIRE-SCRAPING TOOL. ALEXANDER LICHTENSTEIN, Brooklyn, N. Y. Filed Dec. 2, 1918. Serial No. 265,026. 2 Claims. (Cl. 81—9.5.)



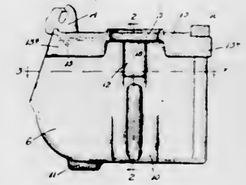
1. A wire scraping tool comprising a plate having its edge divided into a plurality of variously spaced teeth each tooth of the same width, and one relatively broad end tooth provided with a V-shaped notch in its extremity.

1,337,237. HOISTING AND DISPLAYING DEVICE. PETER LIGHT, Cincinnati, Ohio. Filed Oct. 1, 1919. Serial No. 327,714. 20 Claims. (Cl. 116—173.)



1. In a device of the character described, a pole element, a swivel element rotatable around said pole element, upright means carried by said swivel element and adjustable up and down thereon, and laterally extended means carried by said upright means.

1,337,238. JOURNAL-BOX. ALVIN C. MCCORD, Chicago, Ill. Filed June 4, 1917. Serial No. 172,587. 2 Claims. (Cl. 64—10.)

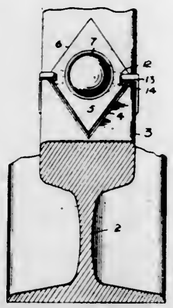


1. A journal box comprising an independently formed metallic cellar and a cast top made fast to said cellar in the casting of said top, the said cellar having inside stops formed as a part thereof in the operation of forming the cellar and in advance of the casting of said top, and the said top having an arch bar seat with perforated lugs projecting laterally from the sides of the cellar, said top further having depending flanges cast fast to the upper edges of the cellar but terminated short of the said inside stops and approimately at the side edges of said projecting lugs.

1,337,239. PROCESS OF MAKING MANGANATES. HARRY MCCORMACK, Chicago, Ill., assignor to Research Laboratory of Chicago, Chicago, Ill., a Corporation of Illinois. Filed Jan. 6, 1919. Serial No. 269,740. 3 Claims. (Cl. 23—13.)

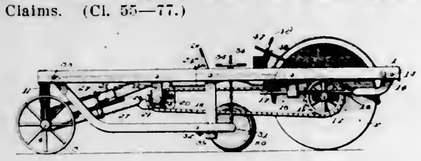
1. The improvement in the process of making an alkali-metal manganate, which consists in adding manganese dioxid to a hydrous solution of the alkali-metal hydroxid, evaporating said solution to dryness, further heating the material, dissolving the resultant material in water, separating the solids and so producing a clear liquid, cooling said liquor and separating therefrom the resulting crystals of manganate.

1,337,240. SIGNALING-TORPEDO. WILLIAM T. MCCULLOUGH, Pittsburgh, Pa. Filed Feb. 26, 1918. Serial No. 219,222. 3 Claims. (Cl. 246—487.)



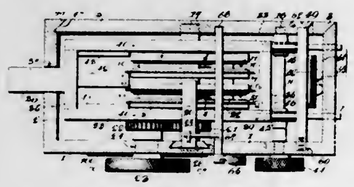
1. A signaling torpedo comprising a carrier formed of an inner and an outer section said outer section provided with a pocket, and an explosive charge in said pocket, one of said sections formed integral with the other, and a disk carried by one of said sections closing said pocket.

1,337,241. ROAD-MACHINE. JOHN H. MCLEOD, Topeka, Kans. Filed May 22, 1919. Serial No. 298,983. 5 Claims. (Cl. 55—77.)



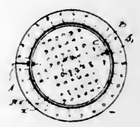
1. A machine of the character specified comprising a main frame, front wheels for supporting the front end of the frame and arranged to swing to guide the frame, a finishing roller journaled transversely of the frame at the rear thereof, means for driving said roller to propel the frame, and a packing roller journaled transversely of the frame in front of the finishing roller and vertically adjustable, said packing roller having a spiral rib on the periphery thereof for the purpose specified, plates pivoted to the opposite sides of the frame near the front thereof, the said roller being journaled in the rear ends of the plates, and means connected with the said rear ends for raising and lowering the same.

1,337,242. SAFETY KEYLESS LOCK. JULES MACÉ, Grasse, France. Filed Nov. 29, 1918. Serial No. 264,666. 16 Claims. (Cl. 70—53.)



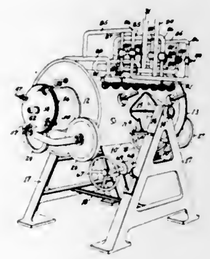
3. In a lock, a casing, a shaft rotatable within the casing, a plurality of disks mounted upon and held in frictional engagement with the shaft, each of the said disks having a bit passage, a frame movable within the casing and including a locking bolt projected through the casing, means operable from without the casing for shifting the bolt frame, means limiting the rotation of the disks in one direction at a common starting point, whereby to hold the disks from rotation as the shaft continues in its forward direction, a dial externally of the casing and a knob controlled device operable over the dial for effecting rotation of the shaft in opposite directions, whereby to individually rotate the disks in reverse directions to predetermined points, said bolt frame having bit members for engaging the bit passages in the disks when the said disks are set to their predetermined positions for permitting shifting of the bolt frame to unlock the bolt, and means operable from without the casing for locking the disks to their selective positions.

1,337,243. DIAL. JULES MACÉ, Grasse, France. Original application filed Nov. 29, 1918, Serial No. 264,666. Divided and this application filed Sept. 9, 1919. Serial No. 322,698. 4 Claims. (Cl. 70—56.)



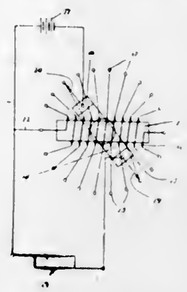
1. In a lock of the character described, a fixed dial plate sub-divided into main divisions, each having a special indicia, each main division being divided into a predetermined number of sub-divisions, and a rotatable knob which controls the set of the combinations of the lock mechanism, the said knob having a set of indicia corresponding to the indicia on the main divisions of the stationary dial and arranged sequentially in groups corresponding with the subdivisions of the main graduations on the fixed dial and numbered in sequence substantially as shown and for the purposes described.

1,337,244. APPARATUS FOR CASE-HARDENING, &c. ADOLPH W. MACHLET, Elizabeth, N. J. Filed June 29, 1918. Serial No. 242,622. 53 Claims. (Cl. 263—34.)



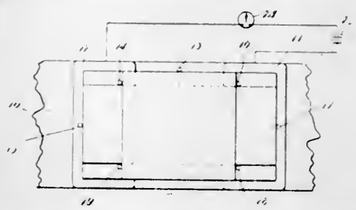
52. The combination with a furnace having burners which heat iron and steel articles to white heat, said furnace comprising a flame chamber, of a carburizing retort in said flame chamber capable of withstanding the heat thereof and of preserving its dimensions through an indefinite number of carburizing operations, and formed of the herein-described nichrome, said retort having end portions projecting through the walls of the furnace and supported exteriorly of said walls; said walls having openings through which said end portions project, said openings approximating the dimensions of said retort without substantial allowance for permanent expansion of the latter.

1,337,245. REHEALING PROCESS FOR CONDENSERS. BYRON MACPHERSON, Roxbury, Mass., assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1919. Serial No. 339,243. 3 Claims. (Cl. 250—41.)



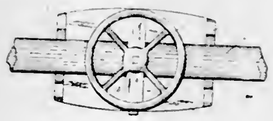
2. The improved process of rehealing short circuited condensers which consists in including said condenser in a circuit, and varying the voltage in said circuit to intermittently fuse the foil at the defective point.

1,337,246. BUILDING-STAND FOR CONDENSERS. BYRON MACPHERSON, Roxbury, Mass., assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1919. Serial No. 339,244. 3 Claims. (Cl. 250—41.)



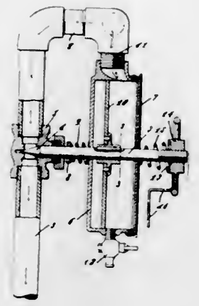
1. An improved building stand for electrical condensers and the like, comprising a base, means thereon for correctly spacing and positioning sheets of mica, auxiliary means thereon for correctly spacing and positioning sheets of foil, and alarm means for indicating the presence of defective sheets of mica.

1,337,247. MEANS FOR CONTROLLING THE FLOW OF WATER THROUGH HOSE. CLARENCE J. MAIER, Dayton, Ohio. Filed July 15, 1919. Serial No. 311,005. 2 Claims. (Cl. 251—5.)



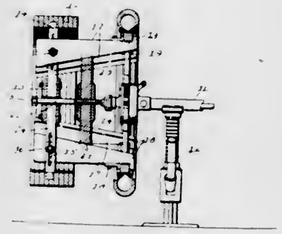
2. In a device of the type described, the combination with a base member upon which a section of hose is adapted to rest, of a bridging member pivotally secured to one side of the base member and adapted to be brought to a position over said hose, means for automatically securing the free end of said bridging member to the base member, a slide in said bridging member, and means adapted to press said slide tightly against said hose to control the flow of water therethrough.

1,337,248. PRESSURE-REGULATOR. GEORGE W. MANN, Pierce City, Mo. Filed Mar. 14, 1918. Serial No. 222,403. 1 Claim. (Cl. 50—14.)



The combination with a valve casing and a cylindrical governor casing arranged side by side, of a piston mounted to slide within the governor casing, a stem secured to the piston and slidably mounted within the two casings, a valve at one end of the stem and within the valve casing, a hand wheel adjustably mounted on the other end of the stem, a spring interposed between the two casings and engaging the stem for holding the valve normally in closed position, a spring interposed between the governor casing and the hand wheel for overcoming the tension of the first named spring, said hand wheel being revoluble to vary the compression of the spring engaging it, cooperating means upon the hand wheel and the governor casing for indicating the degree of compression, a pressure supply pipe, an outflow pipe extending therefrom and intersected by the valve casing, and a branch pipe extending from the supply pipe to the governor casing.

1,337,249. PULLEY-ATTACHMENT DEVICE. JOHN W. MARSHALL, Butte, Mont. Filed Feb. 7, 1919. Serial No. 275,640. 7 Claims. (Cl. 74—106.)

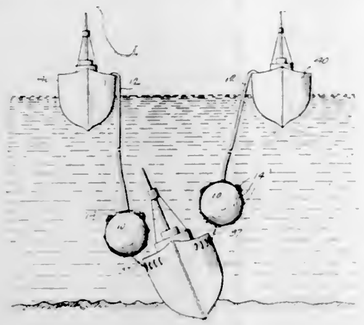


1. The combination with a driving wheel, of a pulley, laterally extending arms having one end secured to said pulley, means carried by opposite ends of said arms for engagement with the felly of the driving wheel and laterally movable means carried by the pulley for holding the arms in such engagement.

1,337,250. APPARATUS FOR RAISING SUNKEN VESSELS. HAIRABED M. MEGUERDITCHIAN, Green Island, N. Y. Filed Apr. 6, 1918. Serial No. 227,067. 3 Claims. (Cl. 114—54.)

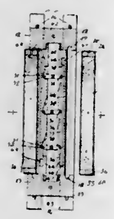
1. An apparatus for raising sunken vessels including an inflatable container and a framework inclosing the

same including a plurality of collapsible annular members, each annular member comprising a plurality of



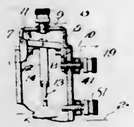
hingedly connected sections, adjacent end sections, and means connecting said end sections for sliding movement.

1,337,251. FILTER-PRESS FRAME. GEORGE F. MILLER, New York, N. Y. Filed June 17, 1919. Serial No. 304,862. 10 Claims. (Cl. 210—13.)



1. In a filter press frame, in combination, a frame, a removable cloth-holder placeable within the frame, a channel between the frame and the cloth-holder, a series of conduits connecting the channel with the inner faces of the cloth-holder, means whereby a material may be introduced into the chamber formed by the cloth-holder and means whereby a liquid may be introduced into the channel.

1,337,252. CIRCUIT-CLOSER FOR LIQUID-LEVEL INDICATORS. GEORGE E. MILLS, Watertown, Mass. Filed Mar. 11, 1919. Serial No. 282,026. 2 Claims. (Cl. 200—84.)

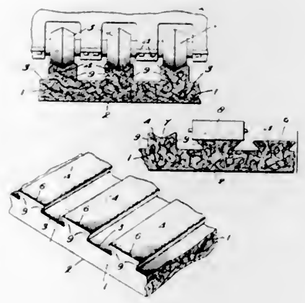


1. In a device of the class described, the combination with a receptacle to contain liquid, of a chamber connected thereto, a contact member pivoted to said chamber, two contacts, one situated above and the other below the contact member, two springs acting on the contact member and normally holding it out of contact with both contacts, a float in the chamber, and connections between said float and contact member by which the float will close said member against the upper contact when it reaches a predetermined high level and against the lower contact when it reaches a predetermined low level.

1,337,253. MANUFACTURE OF ORGANIC ACIDS AND ACID ANHYDRIDS. MARTIN MOEST, Höchst-on-the-Main, and ERIK SCHIRM, Unterliederbach, near Höchst-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 27, 1916, Serial No. 100,349. Renewed June 26, 1919. Serial No. 306,840½. 8 Claims. (Cl. 23—24.)

1. The process of preparing organic acids and acid anhydrids, which consists in causing nitrogen-oxygen compounds containing less oxygen than the nitric anhydrid (N_2O_5), but more oxygen than the nitrogen monoxid (NO), to act upon the salts of organic acids.

1,337,254. FIBER PLASTER-BOARD AND PROCESS OF MAKING THE SAME. CARL G. MUENCH, International Falls, Minn. Filed June 17, 1919. Serial No. 304,868. 6 Claims. (Cl. 154—27.)



1. The process of making plaster board which consists in felting cellulose fibrous material to form a board having substantially rectangular projections; and subjecting said board while in a moist condition to the action of forming rolls, whereby the contour of said projections is changed, substantially as described.

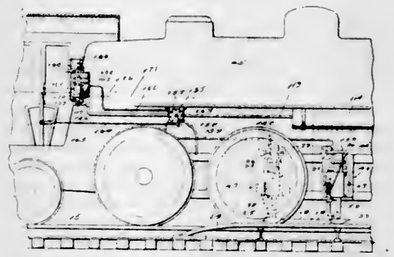
2. The process of making plaster board which consists in felting cellulose fibrous material to form a board having substantially rectangular ribs; and subjecting said ribs to the action of successive sets of forming rolls whereby their cross sections is changed to provide a better plaster bond, substantially as described.

3. The process of making plaster board which consists in felting cellulose fibrous material to form a board having substantially rectangular ribs upon one of its surfaces; and subjecting said ribs while the board is still moist to the action of a plurality of sets of forming rolls to change said ribs to a dove tail shape, whereby a better plaster bond is secured, substantially as described.

4. The process of making plaster board which consists in felting cellulose fibrous material to form a board having ribs with substantially parallel sides upon one of its surfaces; subjecting the top surface of said ribs while moist to the action of a set of indenting rolls, whereby a V-shaped channel is formed in said surface; subjecting said surface to the action of a second set of rolls, whereby said channel is removed and said parallel sides are made to assume an angular relation to one another; suitably drying the board; and coating it with a protecting material, substantially as described.

5. As a new article of manufacture, a plaster board of felted cellulose fibrous material consisting of wood pulp tailings, and having a protecting coating and projections with overhanging angularly disposed sides adapted to form a plaster bond upon one of its surfaces, substantially as described.

1,337,255. TRAIN-CONTROL SYSTEM. WILLIAM B. MURRAY, Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va., a Corporation of Virginia. Filed July 19, 1915. Serial No. 40,751. 9 Claims. (Cl. 246—49.)



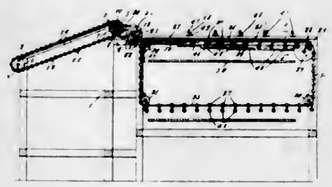
4. In a train control system of the character described, train control means, a pressure operated device to operate the train control means, electrically operated means adapted when energized to prevent the operation of the pressure operated device, and means to hold the pressure operated device against movement when the electrically operated means is energized.

1,337,256. DEVICE FOR POURING JOINTS. THOMAS J. O'CONNELL, Flint, Mich. Filed Jan. 6, 1920. Serial No. 349,786. 5 Claims. (Cl. 22—79.)



1. A pouring device comprising hingedly connected parts, and one of said parts being longitudinally curved to provide a longitudinal opening therebetween.

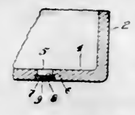
1,337,257. SIZER AND GRADER. ARTHUR MORELAND O'QUINN, Miami, Fla. Filed Nov. 17, 1919. Serial No. 338,440. 9 Claims. (Cl. 130—32.)



1. In a device of the class described, a conveyer embodying spaced grading elements and movable grading elements mounted to swing in arcs and coöperating with the spaced grading elements to define grading openings; and means for progressively lowering the movable grading elements to vary the size of the said grading openings.

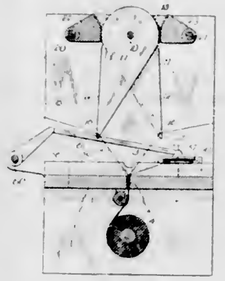
1,337,258. DEVICE FOR FORMING FILAMENTS. OLOF OHLSON, West Newton, Mass. Filed May 19 1919. Serial No. 298,315. 3 Claims. (Cl. 18—8.)

1. A spinneret or device for forming filaments from a liquid solution composed of a cup like metallic body having a plurality of relatively large passages through the bottom wall of the cup combined with relatively thin



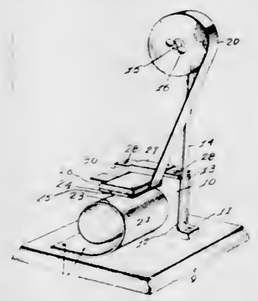
orifice plates secured in said passages each provided with a minute perforation or orifice, substantially as described.

1,337,259. NEEDLE-LOOM. HENRY R. PARKER, Norristown, Pa. Filed May 24, 1919. Serial No. 299,606. 5 Claims. (Cl. 139—20.)



1. In a loom, a shed forming mechanism comprising a series of pivotally mounted warp thread carrier plates each provided with a warp thread guide way, and means for intermittently rocking alternate plates of said series in one direction and the intervening plates in reverse direction to form the sheds.

1,337,260. FABRIC-MEASURING MACHINE. HENRY E. PAUK, St. Louis, Mo. Filed Oct. 8, 1917. Serial No. 195,292. 5 Claims. (Cl. 33—127.)

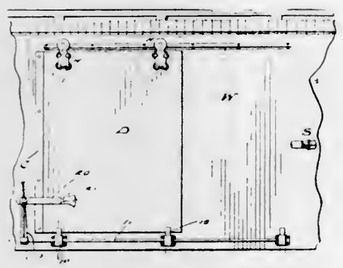


1. A fabric measuring machine, comprising a resilient body, an abutment plate, and a transparent breast between which and the abutment plate a tape and between said plate and the resilient body the fabric respectively are adapted to be passed for measuring the length of the fabric, substantially as specified.

1,337,261. CAR-DOOR LOCK AND RELEASE. BIGALO MCGUIRE PEARSON, Greenville, Miss. Filed July 19, 1918. Serial No. 245,714. 1 Claim. (Cl. 20—22.)

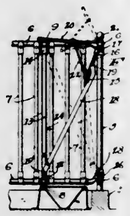
In combination with a car having a door opening and a door swingably and slidably supported upon said car, box like guides carried by said car below the door opening, a rotatable shaft passing through all of said guides, gear wheels keyed upon said shaft within said guides,

upright bolts vertically slidable through said guides and having teeth upon one surface which mesh with said gear wheels, the upper ends of said bolts being rounded, means for oscillating said shaft, whereby the gear wheels



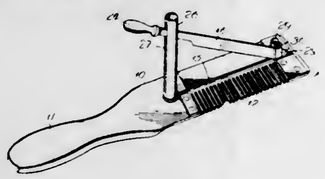
will move said bolts vertically, thus permitting the rounded upper ends of the bolts to engage the lower surfaces of the door for forcing the same into binding engagement with the car, as and for the purposes set forth.

1,337,262. HOGPEN. EDWARD A. PETERS and JOHN T. WELHOEFER, Waterloo, Wis., assignors to Drew Carrier Company, Waterloo, Wis., a Corporation of Wisconsin. Filed Aug. 29, 1917. Serial No. 188,738. 3 Claims. (Cl. 119—63.)



1. In an animal pen, the combination with the pen structure and a trough disposed at one end thereof, of a guard gate for the trough pivotally secured to the pen structure and including a plurality of spaced uprights, a bar pivotally secured to the pen structure, links pivotally connecting the bar with the lower portion of the gate, and adapted to lock the gate against movement by an animal when the gate is in guarding position, means for turning the bar to swing the gate, a latch concealed within one of the uprights of the gate, and a keeper engageable by said latch when the gate is in inoperative position to secure the gate against movement.

1,337,263. HAIR-CUTTER. ADOLPH PFEIFER, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,547. 12 Claims. (Cl. 30—13.)



1. A hair cutter embodying a comb like structure, a cutting blade mounted for pivotal movement at the rear of the teeth of the comb and operating in a plane at a substantially right angle to the plane of the teeth, and means whereby the blade may be operated.

1,337,264. PROCESS OF MAKING SOLID BODIES FROM NITRIDS. EMIL PODSZUS, Treptow, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 21, 1914, Serial No. 867,868. Renewed June 26, 1919. Serial No. 306,880½. 8 Claims. (Cl. 106—9.)

1. The hereindescribed process of making solid nitrid bodies, which comprises shaping or forming a body of a frittable compound capable of being transformed into nitrid, having high heat resisting properties, while maintaining its form, fritting or sintering the body, and thereafter converting the fritted or sintered and shaped body into nitrid.

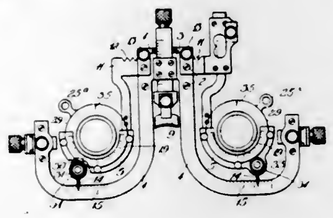
2. The hereindescribed process of making solid nitrid bodies, which comprises shaping or forming a body of a frittable compound capable of being transformed into nitrid, having high heat resisting properties, while maintaining its form, fritting or sintering the body and thereafter converting the fritted or sintered and shaped body into nitrid by heating the same in an atmosphere of ammonia.

3. The hereindescribed process of making solid nitrid bodies having high heat resisting properties, which comprises shaping or forming a body of a mixture of nitrid and a frittable compound capable of being transformed into nitrid while maintaining its form, fritting or sintering the compound and thereafter converting the fritted or sintered compound into nitrid.

4. The hereindescribed process of making solid nitrid bodies, which comprises shaping or forming a body of a frittable compound capable of being transformed into nitrid, having high heat resisting properties, while maintaining its form, fritting or sintering the body, and thereafter converting the fritted or sintered and shaped body into nitrid, imbibing the body with a compound capable of being transformed into nitrid, and transforming the imbibed compound into nitrid.

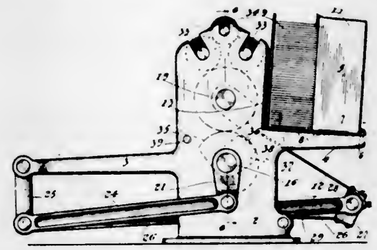
5. The hereindescribed process of making solid nitrid bodies having high heat resisting properties, which comprises shaping or forming a body of a frittable compound capable of being transformed into nitrid mixed with a metal also capable of being transformed into a nitrid, fritting or sintering the body and then converting the mixture while retaining its shape into nitrid.

1,337,265. OPHTHALMIC-TEST-LENS FRAME. MAX POSER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Original application filed Mar. 15, 1916, Serial No. 84,358. Divided and this application filed Jan. 13, 1919. Serial No. 270,793. 9 Claims. (Cl. 88—20.)



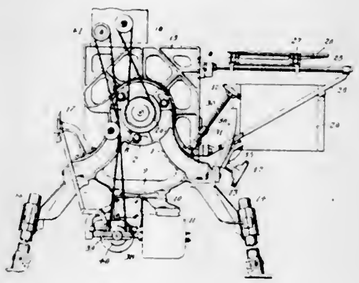
1. An ophthalmic test lens frame comprising a carrier, a plurality of test lens receiving pockets on the carrier and an indicator scale adjacent said receiving pockets, one of said pockets being adapted to receive a cylindrical test lens having a mounting provided with an index to indicate the optical axis of the lens and coöperate with said scale, and another of said pockets adapted to receive a test prism having a substantially transparent mounting provided with an index for the prism base and also adapted to coöperate with said scale, the transparency of the prism mounting permitting the underlying scale to be read therethrough.

1,337,266. ENVELOP FEEDING AND HANDLING DEVICE. CLAUDE L. POST, Chicago, Ill. Filed Mar. 13, 1919. Serial No. 282,300. 14 Claims. (Cl. 101—232.)



1. A device of the kind described comprising a pair of feeding rolls having coöperating feeding arcs, an envelop magazine arranged adjacent said rolls having a discharge opening through which envelop flaps normally project, and means for turning said flaps into engaging position with said feeding arcs, there being clearance between the ends of said arcs permitting such movement.

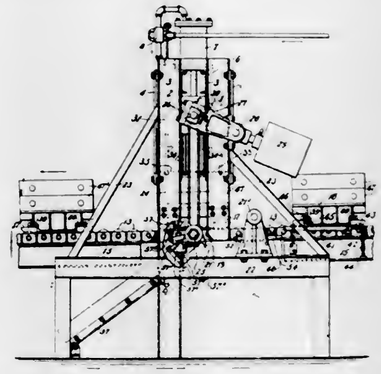
1,337,267. STAND FOR MOVING-PICTURE MACHINES. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1915. Serial No. 55,409. 8 Claims. (Cl. 88—17.)



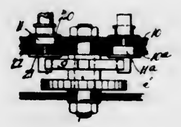
6. In a motion picture projecting apparatus, a supporting frame comprising a stationary base portion, legs adjustably supporting said base portion, a driving motor mounted on the base portion, an upper portion supporting the projecting mechanism, a pivotal connection between the two parts permitting relative angular adjustment, and a power transmitting connection between said motor and said mechanism.

1,337,268. MOLD-HANDLING MACHINE. CLARENCE K. PRINCE, Westfield, Mass. Filed Apr. 22, 1919. Serial No. 291,932. 12 Claims. (Cl. 22—20.)

1. In a mold-handling machine, the combination with a runway extending therethrough for receiving the flasks to be emptied and returned to the runway, of a movable platform forming a part of the runway and adapted for vertical movements toward and away from the line of travel of the runway and for receiving the bottom board of the flask, means for suspending the flask on the machine and over the movable platform, means for forcing the contents of the flask from the same during the downward movement of the platform, and means for returning the platform and bottom board to their original position.

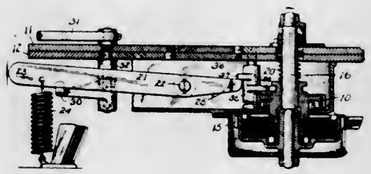


1,337,269. BRAIDING-MACHINE. ROBERT CARL RAHM, Wyomissing, Pa. Filed Nov. 16, 1918. Serial No. 262,789. 6 Claims. (Cl. 28—4.)



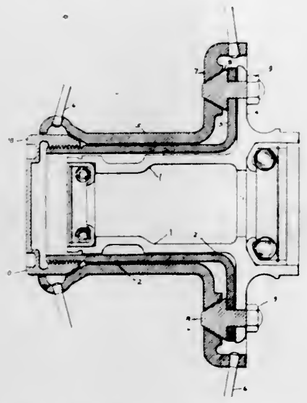
2. A braiding machine having two carrier race-ways arranged in different planes, and two series of carriers in said ways; each of the carriers being provided with a single race-way-engaging shuttle of oblong cross-section and having oppositely bulging contour lines each conformed to the outer race-way walls, and the shuttles of each series being arranged in a different plane from those of the other series.

1,337,270. DRIVE AND STOP MECHANISM FOR BRAIDING-MACHINES. ROBERT CARL RAHM, Wyomissing, Pa. Filed Mar. 21, 1919. Serial No. 284,128. 2 Claims. (Cl. 28—4.)



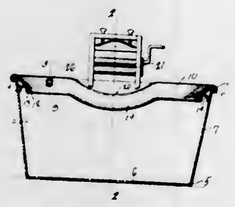
2. In a braiding machine, a drive and stop mechanism comprising a main drive gear, a carrier-drive gear having a friction clutch engagement with said main gear, a spring arranged to normally press said gears into engagement, a guide clutch-engaging sleeve, a clutch lever operative on said sleeve to disengage said spring-engaged gears, and a carrier-contacting stop lever carrying a clutch-lever catch.

1,337,271. DETACHABLE WHEEL. WILFRED L. REGNIER, Dayton, Ohio. Filed Jan. 10, 1919. Serial No. 270,482. 1 Claim. (Cl. 21—31.)



In a device of the type specified, the combination with a wood wheel hub, of a sleeve adapted to be telescoped thereon, a flange on the inner end of said sleeve, a corresponding flange on the wood wheel hub, an outer hub adapted to be slipped on said sleeve, a flange on said outer hub adjacent the flange on said sleeve, pins connecting the flange on said wood wheel hub and the flange on said sleeve, a nut on each pin adapted to bear against the flange on the wood wheel hub, and an arrow-shaped head on the outer end of each pin whose base portion bears against the flange on said sleeve and whose tapering front portion projects into a tapering hole in the flange of the outer hub.

1,337,272. WASHTUB. EVERETT B. RICHMOND, Hartford, Conn., assignor of one-half to Winfield V. Schnell, Wethersfield, Conn. Filed Mar. 31, 1919. Serial No. 826,286. 1 Claim. (Cl. 68—31.)



In a device of the class described, the combination of a tub, having walls provided with beads at the upper portion thereof, of a guard flange having a sleeve upon its upper edge hooking about under said beads, said guard flange extending downwardly toward the inner portion of said tub, said guard flange having a second bead upon its lower inner edge, a reinforcing strand carried within the second sleeve, a portion of said flange having a depressed arcuate portion, said bead and said sleeve being cut away above said arcuate portion.

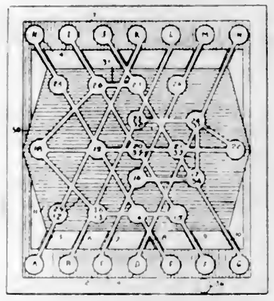
1,337,273. CASKET-HANDLE. FRANK E. ROBERTS, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed June 28, 1918. Serial No. 242,362. 4 Claims. (Cl. 16—103.)

1. A hand grip for a handle, comprising a plurality of substantially similar resilient sheet metal parts provided with portions constructed to overlap each other on longitudinal lines to form a tube, and lugs upon the opposite



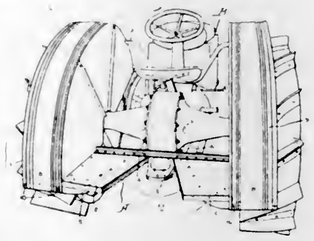
marginal portions of one of said parts constructed to spring into locking engagement with the other part of said tube to lock said parts in their overlapped position.

1,337,274. GAME-BOARD. CHARLES B. ROSENBERGER, Pittsburgh, Pa. Filed June 12, 1919. Serial No. 303,688. 1 Claim. (Cl. 46.—21.)



A game board comprising a body portion having means to constitute a playing field consisting of a playing surface and a pair of end portions space therefrom, each end portion having means to provide a row of terminal stations disconnected from each other, said playing field further having means to provide two sets of diagonally extending tracks bridging the spaces between the end portions and playing surface, the tracks of each set arranged in parallelism throughout and extending from stations on one end portion to stations on the other end portion and with the stations associated with the tracks of one set opposing the stations associated with the tracks of the other set, the tracks of one set of greater number than the tracks of the other set and crossing this latter set, said playing surface further having means to provide stations associated with said tracks and further with means to provide tracks connecting certain of said stations and crossing the diagonally disposed tracks, and movable elements to be shifted over the playing field.

1,337,275. PLATFORM AND MUD-GUARD. ARTHUR R. SANDT, CARL F. WALZ, and MICHAEL L. STAHL, Minneapolis, Minn. Filed Nov. 10, 1919. Serial No. 337,046. 7 Claims. (Cl. 180—1.)

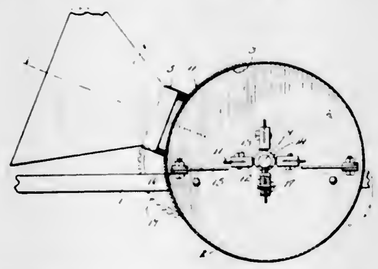


1. The combination with a tractor, drive-wheel fenders, foot platforms on either side of the drawbar coupling and angle iron braces connecting the forward end of said platforms with said tractor and the rear end of said platforms with said fenders to rigidly connect said fenders, platforms and tractor with an open space at the drawbar coupling to allow free movement of the tongue when secured to the tractor coupling.

1,337,276. ELECTRIC-RESISTANCE ALLOY. WILLIAM A. SCHEUCH, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 3, 1917. Serial No. 184,229. 21 Claims. (Cl. 75—1.)

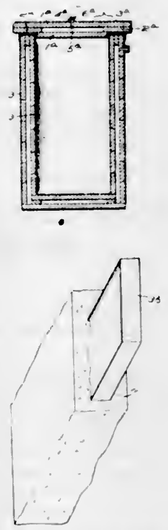
1. An alloy containing nickel, 1½ per cent. cobalt or more and titanium, the nickel being in excess of 50%.

1,337,277. AUDIBLE SIGNALING DEVICE. CHARLES SCHROEDER, Neillsville, Wis. Filed Nov. 4, 1919. Serial No. 335,687. 4 Claims. (Cl. 116—143.)



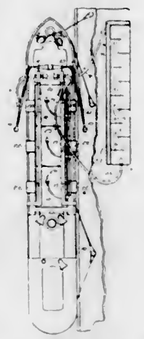
1. A sounding device comprising a sound box having an opening therein to provide access to the interior thereof, a cover plate slidable across said opening and normally closing the same, said plate having a sound opening, and a sound producing means in said box.

1,337,278. PROCESS OF VACUUM-RECEPTACLE CONSTRUCTION. GUSTAV OTTO SCHULZ, Revere, Mass. Filed May 28, 1919. Serial No. 300,287. 5 Claims. (Cl. 154—45.)



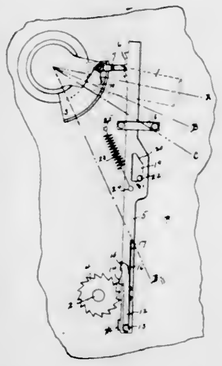
1. That process of vacuum-receptacle construction comprising the following steps: enveloping by a hermetical barrier a hollow core adapted to brace said barrier against atmospheric pressure consequent upon the establishment of a vacuum within said core, establishing a vacuum within said core, then hermetically sealing said core and then enveloping said core or barrier, with or applying thereto concrete or cementitious material.

1,337,279. METHOD OF AND APPARATUS FOR COLLECTING AND DELIVERING SAND. JACOB R. SENSIBAR, Gary, Ind. Filed May 6, 1918. Serial No. 232,720. 3 Claims. (Cl. 37—9.)



2. The herein described sand separating device comprising a trough having a series of transverse baffle plates to produce quiescent spaces in the trough, hopper-shaped depressions in the bottom of the trough, sand discharging doors in said hopper-shaped depressions draining hoppers beneath said sand discharging doors, and means for discharging the sand from said draining hoppers.

1,337,280. MECHANICAL STARTER FOR PHONOGRAPH-MOTORS. JAMES T. SIBLEY, Paterson, N. J. Filed Apr. 24, 1919. Serial No. 292,373. 6 Claims. (Cl. 74—14.)

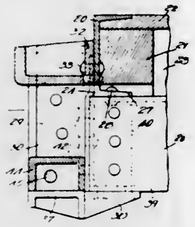


1. In a starter for phonograph motors, the combination of a tone arm and a turntable spindle, with means for communicating the initial swinging movement of the tone arm to said spindle to give it a slight rotating impulse.

1,337,281. REINFORCED END STRUCTURE FOR RAILWAY-CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed Sept. 29, 1917. Serial No. 194,018. 15 Claims. (Cl. 213—42.)

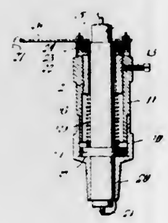
1. In an end structure for railway cars, the combination with an end sill, of draft sills extending under said end sill and secured thereto, an integral four-sided striking

casting secured to said end sill and to said draft sills, and gusset members secured to the said casting and end sill



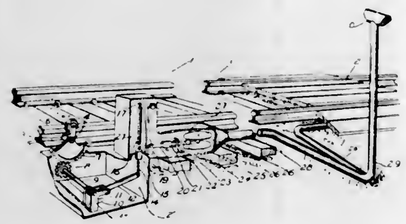
adapted to transmit a portion of the strains, due to side thrusts of the coupler, to the end sill at points intermediate the center and side sills of the car.

1,337,282. AUTOMATIC TIMER. IRA LEON SLAWTER, Grand Prairie, Alberta, Canada. Filed Mar. 5, 1919. Serial No. 280,775. 2 Claims. (Cl. 123—169.)



1. A timer of the class described comprising a casing, a contacting member, a stem of conducting material, an insulating member surrounding the stem, a conducting sleeve surrounding the insulating material, the said stem and sleeve being designed to be moved outwardly when the pressure in the cylinder exceeds a predetermined limit, resilient means for returning the member to its normal position, and means for adjusting the said resilient means.

1,337,283. RAILWAY-SIGNAL. WILLIAM I. SMITH, Stockton, Kans. Filed July 23, 1919. Serial No. 312,792. 5 Claims. (Cl. 246—295.)



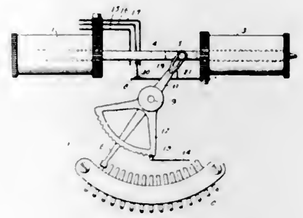
1. In a railway signal, a clapper arm, an elbow lever carrying said arm, a coil spring suspended from the elbow lever, a weight carried by the spring, a loosely mounted lever connected to the weight, a swinging finger to actuate the loosely mounted lever, and a means in proximity of the rail to be actuated by a passing car to impart movement to the loosely mounted lever.

1,337,284. TWIN-BAR SUSPENSION-INSULATOR. SOL S. SONNEBORN, Brooklyn, N. Y. Filed July 10, 1918. Serial No. 244,140. 8 Claims. (Cl. 175—30.)



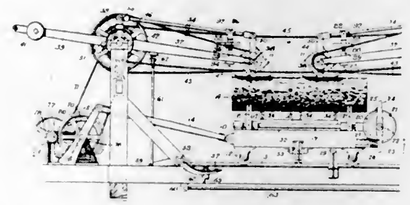
1. In a system of strain insulator suspension, a ground; a string of one or more insulator units connected with said ground; each insulator unit comprising separated terminals and an insulating connecting link; and grounded one or more series spark gaps, one for each said link.

1,337,285. AUTOMATIC SELECTING-SWITCH. ARTHUR B. SPERRY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 6, 1918. Serial No. 238,483. 4 Claims. (Cl. 179—27.5.)



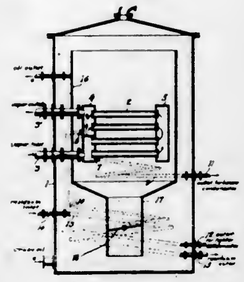
1. In an automatic selective switch, the combination with a bank of terminals and a set of coöperating brushes, of a reciprocatory element to which the brushes are operatively connected, a pair of electromagnets for the operation of said element, a pair of contacts, one for each magnet, a contact spring for alternate engagement with said contacts, a detent having self-acting coöperation with said spring to maintain the engagement of said spring with one of said contacts, and operative connections between the reciprocatory element and the detent for disengaging the latter from the spring at a period of the movement of said element.

1,337,286. PLANING-MACHINE. OLOF L. STADIG, St. Francis, Me. Filed Dec. 29, 1917. Serial No. 209,430. 9 Claims. (Cl. 144—208.)



1. A machine of the character described comprising, in combination, a movable work-support, a sliding shoe arranged to bear on the work, a pair of bars pivotally connected to said shoe and extending upwardly therefrom, said bars having longitudinally extending slots above the axis of the pivotal connection, a cutter-shaft extending through said slots, a rotary cutter affixed to said shaft and arranged between said bars so as to operate on the work through a hole in the shoe, an oscillatory cutter-frame having bearings in which said shaft is journaled, oscillatory means substantially parallel to said cutter-frame and pivotally connected to said bars to maintain the latter in substantially vertical position, and adjustable means connecting said oscillatory means and the cutter-frame to adjust the cutter-shaft up and down relatively to said slots.

1,337,287. PREHEATER FOR USE IN THE CHEMICAL INDUSTRY, ESPECIALLY FOR USE IN THE PETROLEUM-TAR AND THE LIKE INDUSTRY. LEO STEINSCHNEIDER, Brünn, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 3, 1914. Serial No. 870,089. 2 Claims. (Cl. 196—3.)



1. In a pre-heater for use in the chemical industry, an upright vessel containing the liquid to be pre-heated, a system of horizontal tubes within said vessel adapted to receive distillate gases or vapors, the heat of which vapors is adapted to heat the liquid to be pre-heated in said vessel, a jacket around said system of horizontal tubes, said jacket having a cross-sectional area less than that of said vessel, and being adapted to permit a circulation of the contents of the vessel through and around the same, and means for controlling the circulation of the liquid in said vessel

---

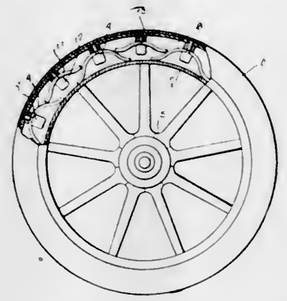
1,337,288. GAS-FIXTURE AND FUEL-HOSE THEREFOR. CHARLES STICHLER, Philadelphia, Pa., assignor to Strause Gas Iron Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 7, 1918. Serial No. 233,012. Renewed Mar. 1, 1920. Serial No. 362,549. 4 Claims. (Cl. 285—96.)



1. The combination of a gas fixture having an interior surface converging toward one end thereof, a tubular member movable in said fixture and provided with radial apertures, balls in said apertures arranged to be forced radially inward by said converging surface, a fuel hose, a coupling tube extending through said tubular member and held by said balls against removal therefrom and a packing sleeve in said fixture arranged to receive and frictionally engage the end of said coupling tube whereby the connection between the latter and said fixture is sealed.

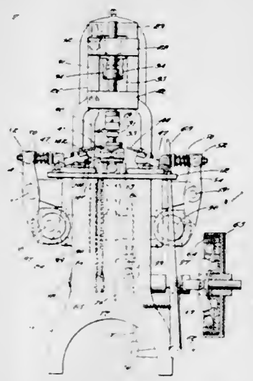
1,337,289. TIRE. JOHN GORDON SUMMERS, San Diego, Calif. Filed Aug. 6, 1919. Serial No. 315,714. 5 Claims. (Cl. 152—8.)

2. The combination with a vehicle wheel rim, of a tire shoe mounted thereon, a band positioned within the shoe and extending circumferentially thereof and bearing against the crest of the same, longitudinally bowed leaf springs extending from the band and bearing against the rim, a second set of leaf springs extending longitudinally of the rim and extending from the band, the latter springs being disposed on opposite sides of the springs of the first set and adapted to bridge the spaces therebetween and



having their ends engaged with the adjacent parts of said springs and transversely extended springs extending from the crest of both sets of the longitudinally extending springs of the same contour as the interior of the tire shoe and bearing against the inner face of the same.

1,337,290. MACHINE FOR MAKING INSOLES. EUGENE H. TAYLOR, Hyde Park, Mass.; George A. Taylor administrator of said Eugene H. Taylor, deceased. Filed Apr. 24, 1916. Serial No. 93,105. 10 Claims. (Cl. 12—22.)

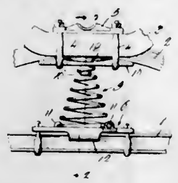


1. In a machine of the character described adapted to make either the inner or outer member of an insole, the combination of top and bottom pressing members, one of which is the size and shape of the inside of the inner member, edge plates movable toward and away from the pressing members, a top plate superposed upon one of said pressing members and having a protruding edge, and a band surrounding the edge of said pressing member and of a thickness to make the said pressing member of the size of the inside of the outer member of the insole when the band is applied to the said pressing member.

1,337,291. SHOCK-ABSORBER AND AXLE-REINFORCEMENT. JOHN D. TELLER, Henderson, Tex. Filed Dec. 3, 1919. Serial No. 342,734. 3 Claims. (Cl. 267—28.)

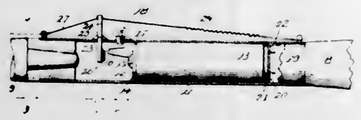
1. Reinforcing means for the front axle and front spring, the same comprising a base plate mounted upon

the axle and secured thereto and having a depending hook-shaped projection engaging the front flange of the axle,



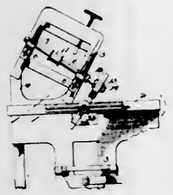
and a depending lug engaging the rear portion of the axle, and a spring mounted upon the plate and arranged to be interposed between the same and said front spring.

1,337,292. LIGHT ATTACHMENT FOR FISHING-TACKLE. EDWARD J. TIMMONS, St. Louis, Mo. Filed May 26, 1919. Serial No. 299,856. 3 Claims. (Cl. 43—17.)



3. A device of the character described comprising a fishing rod having a hollow and cylindrical portion, a battery located therein, a light bulb supported by the cylindrical portion, a spring located on the carbon post of the battery and designed to be brought in contact with the base of the bulb, a lever pivotally mounted on the cylindrical portion and extending therein, an insulating plate located on the lever, said plate to be brought in contact with the spring when the lever is pulled upon for bringing the spring in contact with the bulb, a handle located in the cylindrical portion and a contact plate attached to the handle with which the zinc covering of the battery contacts for completing a circuit and illuminating the bulb, substantially as specified.

1,337,293. DEVICE FOR SETTING THE SHAFTS OF SAW-GRINDING MACHINES. WILSON TOUPS, Jeanerette, La., assignor of one-half to H. R. Minvielle, Jeanerette, La. Filed Oct. 16, 1918. Serial No. 258,431. 6 Claims. (Cl. 33—185.)



1. In a device of the class described, a stock having a plane abutment face, a head carried by the stock and having an opening the axis of which occupies the same plane as the said face of the stock, and a bushing adjustably fitted in the opening and provided with an eccentrically positioned shaft receiving opening.

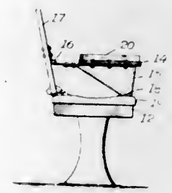
1,337,294. LACE WITH GAUZE-LIKE GROUND MADE ON SINGLE-THREAD MACHINES. EUGEN TÜRCK, Langerfeld, near Barmen, Germany, assignor, by mesne assignments, to The American Fabrics Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 31, 1916. Serial No. 112,390. 1 Claim. (Cl. 66—4.)

A lace made on single thread braiding machines with gauze like foundation having inscribed squares within the squares of the gauze like foundation said inscribed squares being composed of at least two simultaneously working threads, two groups of said threads meeting in the middle



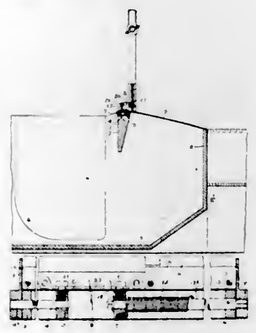
of the weft strip pieces being plaited relative to the braid of the longitudinal or warp strips, while the weft strips are formed by interchanging of threads from said braids and the proper warp strips.

1,337,295. CAR-SEAT. CHARLES H. TURNER, Worcester, Mass., assignor to Osgood Bradley Car Company, a Corporation of Massachusetts. Filed Aug. 19, 1919. Serial No. 318,445. 6 Claims. (Cl. 155—10.)



1. A car seat having in combination, a seat portion, a reversible back having two back-supporting positions, and an auxiliary seat connected to the back and movable to operative and inoperative positions relative to said seat portion by movement of said back to one or the other of its two back-supporting operative positions.

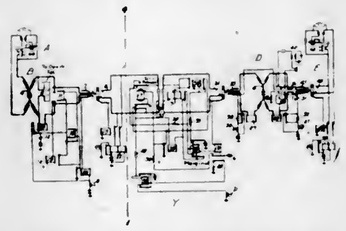
1,337,296. VENTILATOR. JOHN C. TURVENE, Dayton, Ohio. Filed Oct. 30, 1919. Serial No. 334,412. 16 Claims. (Cl. 296—94.)



2. In ventilators for automobiles, the combination, with the wind shield of an automobile, of a cowl adjacent said wind shield, and an instrument board positioned relative to the cowl and having an air passage therethrough, said passage extending downwardly toward the floor of the machine, and a deflector plate normally closing said air passage, having means connecting it to the wind shield and adapted to be actuated with the adjustment of the wind shield to open said passage to admit currents of air therethrough.

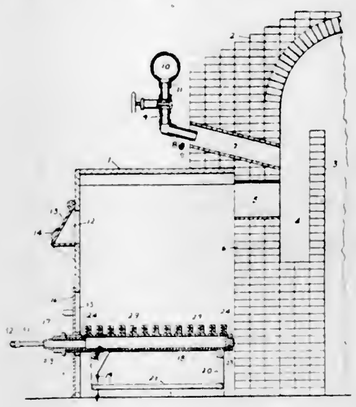
9. In ventilators for automobiles, the combination, with the wind shield of an automobile, of a cowl adjacent said wind shield and an instrument board positioned relative to the cowl and having an air passage therethrough, said passage extending downwardly toward the floor of the machine, and a deflector plate rotatively mounted relative to said cowl and instrument board and spring actuated to contact with the wind shield and connected to and adjustable with the wind shield to open and close said passage.

1,337,297. TELEPHONE-EXCHANGE SYSTEM. HORACE W. ULRICH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 11, 1918. Serial No. 233,824. 12 Claims. (Cl. 179—50.)



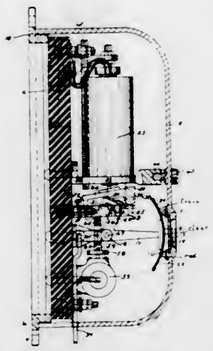
1. A telephone exchange system comprising a trunk circuit extending from a first to a second switchboard, a link circuit at the first switchboard, a signaling device at the second switchboard operated upon connection of the link circuit with the trunk circuit, a link circuit at the second switchboard, a signal control relay, an operating circuit therefor partially established upon the connection of the second link circuit with the trunk circuit, and means responsive to the disconnection of the first link circuit from the trunk circuit for completing the partially established operating circuit.

1,337,298. FURNACE GAS-PRODUCER. LOIS M. UNDERWOOD, Dayton, Ohio. Filed Mar. 10, 1919. Serial No. 281,613. 3 Claims. (Cl. 25—132.)



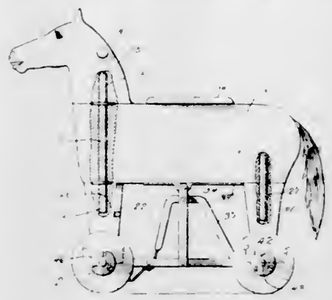
1. In a kiln provided with a stationary furnace and gas producer chamber, and a conduit forming a passageway from said chamber to the combustion chamber of the kiln, and an auxiliary air conduit through which additional air is supplied to the combustion chamber, a portable grate including a series of hollow tilting bars with nozzles through which steam and air are injected into said bars, a series of twyers mounted on each bar and having air passages communicating with the interior of said bars, and an individual steam injecting nozzle extended into the nozzle of each of said bars, substantially as described.

1,337,299. ANNUNCIATOR. EUGENE W. VOGEL, Oak Park, Ill., assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill., a Corporation of Illinois. Filed June 20, 1914. Serial No. 846,307. 3 Claims. (Cl. 177—327.)



1. In a train annunciator, the combination with a visual signaling element adapted to assume an upper, a lower and an intermediate position; of an audible signaling mechanism, actuating devices therefor operable only when said visible element is in the lower position; means for raising said element from the lower to either of the other positions; a spring pressed pivoted dog on said visual signaling element; a tripping arm formed with catches adapted to be engaged by said dog, one of them to hold said element in the upper position and the other to hold the same in the intermediate position; and mechanism for controlling the movements of said tripping arm so as to effect one or the other of said engagements.

1,337,300. MECHANICAL TOY HORSE. GEORGE W. WALKER, Far Rockaway, N. Y. Filed Aug. 22, 1919. Serial No. 319,270. 2 Claims. (Cl. 208—165.)

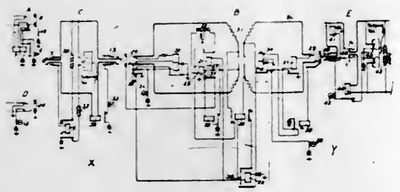


1. In a device of the class described, the combination of a wheel supported frame, crank shafts mounted on said frame and connected to said wheels, a body pivotally supported above the frame intermediate the ends thereof, depending extensions provided at each extremity of the body, a U-shaped plate attached to the terminals of said extensions so as to form transverse recesses to receive said crank shafts.

1,337,301. TELEPHONE-EXCHANGE SYSTEM. RAY S. WILBUR, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 13, 1918. Serial No. 234,345. 8 Claims. (Cl. 179—42.)

6. In a telephone exchange system, in combination, a trunk circuit extending from a switchboard, a link circuit thereat, a source of current, a relay controlling the connection of the source of current with the trunk circuit, an

energizing circuit for the relay established upon connection of one end of the link circuit with the trunk circuit,



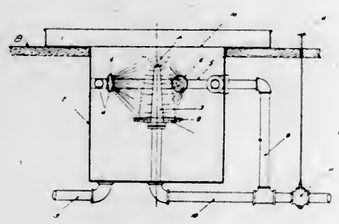
and a relay operating upon the connection of the other end of the link circuit with the trunk circuit to prevent the establishment of the energizing circuit.

1,337,302. DETACHABLE LIGHT FOR VEHICLE-CURTAINS. DANIEL M. WINANS, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y., a Corporation of New York. Filed July 5, 1918. Serial No. 243,414. 1 Claim. (Cl. 296—145.)



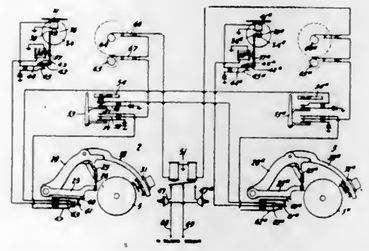
A detachable "light" for vehicle curtains, comprising a ring having inner and outer flanges arranged angularly to the plane of the ring and spaced apart, and a pane whose marginal portion bears on the inner flange aforesaid and is spaced from the outer flange, means being provided on the ring for securing the pane against said inner flange and holding it unitary with said ring, said pane and ring being permanently connected together and attachable as a unitary structure to the curtain, or removable as a unit therefrom, a frame adapted to be positioned on the opposite side of the curtain from the ring and pane and to telescope into the space between the margin of the pane and the outer flange of the ring so as to pinch the curtain between them, and screw fastenings for detachably securing the ring and frame together with the curtain clamped therebetween.

1,337,303. GLASS-WASHER. WILLIAM MCGIE YOUNG, Victoria, British Columbia, Canada. Filed Apr. 27, 1916. Serial No. 93,981. 1 Claim. (Cl. 141—3.)



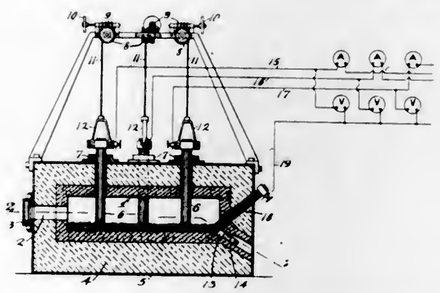
A device of the class described, comprising a receptacle, an annular water pipe in the receptacle having inwardly disposed water roses arranged slightly offset, a perforated conical nozzle centrally located in the receptacle, a rotatable flange on the nozzle adapted to receive a glass, fins on the flange, and means whereby water is simultaneously sprayed through the nozzle and the roses to simultaneously clean the inside and outside of the glass, the roses being designed to project the spray tangentially on the glass and the rack to impinge on the fins, as and for the purpose specified.

1,337,304. SPEECH-REPRODUCING DEVICE. GEORGE F. ATWOOD, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 22, 1917. Serial No. 176,386. 5 Claims. (Cl. 179—6.)



1. A speech reproducing device adapted to successively repeat a given letter or number into a telephone circuit; comprising a pair of identical records and reproducers, a corresponding pair of telephone transmitters operatively associated with said reproducers, and means for automatically shifting one or the other of such transmitters into association with such telephone circuit during the interval between successive record tracks on such records.

1,337,305. PROCESS OF MELTING AND MELTING AND REDUCING METALS. MORRIS H. BENNETT, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Substitute for application Serial No. 241,941, filed June 26, 1918. This application filed Feb. 9, 1920. Serial No. 357,212. 29 Claims. (Cl. 204—64.)

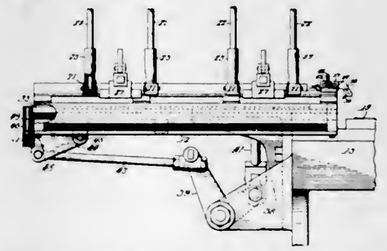


29. The process of melting in an electric furnace having a closed furnace chamber, non-ferrous metals having high thermal conductivity, consisting in so delivering an electric current of high amperage to the charge through a plurality of electrodes as to set up a magnetic field in the fusing metal whereby circulation of said metal is obtained, so controlling and regulating the current delivery that the total energy transmitted is substantially evenly distributed between the electrodes and that the heat developed at the ends of the electrodes during fusing will be carried away by the charge before the metal at or near the electrode ends is sufficiently raised in temperature to cause an undue production of fumes, continuing the delivery of energy until the charge is raised to pouring temperature, and condensing the fumes and returning the metallic constituents to the charge.

1,337,306. TREATING BROOM-CORN. HENRY J. BRODERSON and SAMUEL W. PARR, Urbana, Ill. Filed July 19, 1916. Serial No. 110,063. 14 Claims. (Cl. 8—2.)

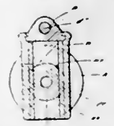
14. The method of effecting the removal of red coloring matter from broom corn and of dyeing the same, which comprises absorbing such coloring matter in a hot aqueous solvent containing a reagent for promoting the solution, a reagent for combining with the dissolved coloring matter to form an insoluble percipitate, and a protective colloid for modifying the action of said precipitating reagent, removing the fiber from such solvent and from the precipitate formed, drying the fiber and subjecting the thus preliminary treated fiber to a dyeing operation, whereby the dye is intimately combined and held by the constituents of the fiber absorbed during the preliminary treatment; substantially as described.

1,337,307. AUTOMATIC DIE-PRESS. WILLIAM CAMERON, Chicago, Ill., assignor to Torris Wold & Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 25, 1917, Serial No. 170,838. Patent No. 1,277,342, dated Aug. 27, 1918. Divided and this application filed May 18, 1918. Serial No. 235,261. 12 Claims. (Cl. 164—21.)



1. In a machine of the character described, the combination of a reciprocatory feeding bar, a reciprocatory slide member, a disengageable spring pin connection between said feeding bar and said slide member adapted for manual release only, and means for reciprocating said slide member including a connection adapted to be released when excessive strain is imposed thereon.

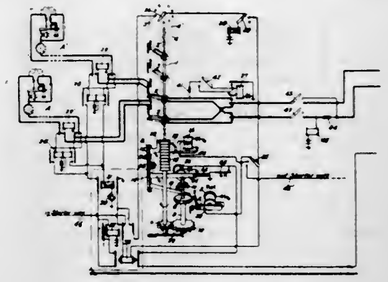
1,337,308. LOCK MECHANISM OF ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed May 29, 1918. Serial No. 237,362. 6 Claims. (Cl. 89—27.)



1. In ordnance lock mechanism, the combination with the mushroom stem or axial vent bolt and the receiver or box slide attached thereto, of a wedge or lock frame movable while in engagement with both the axial vent bolt and the box slide, and means whereby said lock frame by its said engagement directly forms a connection between the axial vent bolt and the box slide to prevent the latter from moving angularly on said bolt.

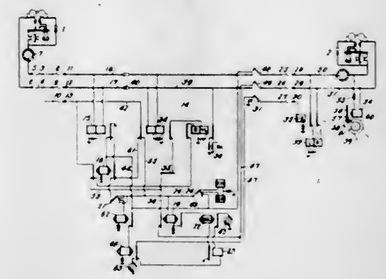
1,337,309. TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1916. Serial No. 80,690. 12 Claims. (Cl. 179—18.)

1. In a telephone system, a switch including a plurality of brushes, series of circuit terminal contacts, one for each of said brushes, each series being the terminals of a different group of circuits, automatic means for simultaneously moving said brushes over said series of



contacts, and a single test relay for stopping the movement of said switch when any one of said brushes engages the contact of a desired circuit.

1,337,310. TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 26, 1917. Serial No. 182,977. 10 Claims. (Cl. 179—18.)



10. In a telephone system, a calling and a called line, substations therefor, means including automatic switches for interconnecting said lines, two signal means located at the called substation, and means associated with one of the automatic switches and controlled from the other of said substations for operating at will either of said signal means.

1,337,311. CHIROPRACTIC TABLE. ALBERT A. GRIFFIN, Davenport, Iowa. Filed Apr. 16, 1917. Serial No. 162,459. 17 Claims. (Cl. 45—50.)



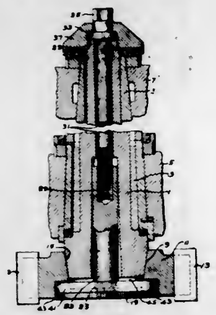
3. In a device of the class described, in combination, a base and table pivotally related at one of their ends, an elastic member operatively connected to both the said base and table and normally sustaining the latter in an elevated position, a series of elastic members operatively connected with the table and having free ends adapted to travel with the table in its movements, and separate independent latches lying in the paths of the members of the series adapted to be selectively brought into engagement with said free ends.

1,337,312. CHIROPRACTIC TABLE. ALBERT A. GRIFFIN, Davenport, Iowa. Filed Feb. 17, 1919. Serial No. 277,626. 10 Claims. (Cl. 128—73.)



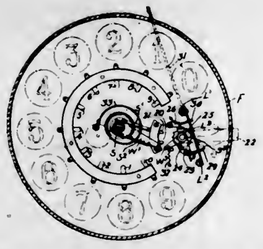
1. In a device of the character described, the combination with an unbalanced lever fulcrumed between its ends, of a counter-balancing element operatively connected to the short arm of the lever including a laterally flexing non-stretching portion, a member mounted between the said portion and the fulcrum and receiving the said portion against it, said member being adjustable to fixed positions in a direction substantially perpendicularly to the line of pull of the said counter-balancing element.

1,337,313. DEVICE FOR CONNECTING TOOLS TO SPINDLES. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 1, 1918. Serial No. 256,450. 7 Claims. (Cl. 279—1.)



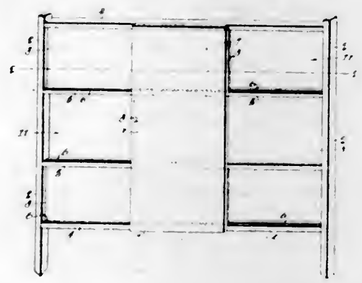
1. In a device for securing tools to their driving spindles, the combination of the driving spindle having a conically tapered tool receiving end and a transversely extending recess, a tool having a conical bore to fit the conical end of the spindle, and a transversely extending recess, a locking member having a transversely extending driving bar for engaging the transversely extending recesses of the tapered spindle and tool, the transversely extending recess in the end of the tapered spindle being of a depth to afford a space between the bottom of the recess and the driving bar when the conical bore of the tool and the conical end of the spindle are in driving relation, and a draw bar acting upon the locking member.

1,337,314. CALLING DEVICE. JOHN A. HALL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 12, 1917. Serial No. 180,162. 14 Claims. (Cl. 179—90.)



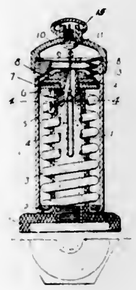
1. In a calling device, sets of contacts, wipers arranged in operative relation therewith, a dial provided with finger holds for actuating said wipers, and means responsive to the angular movement of said dial for momentarily selectively affecting said contacts.

1,337,315. ADVERTISING DISPLAY DEVICE. STANLEY T. HARVEY, Vancouver, British Columbia, Canada. Filed June 2, 1919. Serial No. 301,303. 7 Claims. (Cl. 40—65.)



1. An advertising device, comprising the combination with a suitable frame supporting fixed display surfaces in adjacent parallel planes, the adjacent edges of which surfaces are in line with one another, cross rails between these vertically disposed surfaces dividing them into horizontally disposed groups, a panel endwise movable along the cross rails between the surfaces of each group, and means for successively moving the panels of adjacent groups in opposite directions whereby the display surfaces of the movable panels and of the surfaces which they move in front of, are alternately hidden and revealed.

1,337,316. PNEUMATIC-TIRE VALVE. JOHN O. HELLIWELL, Pasadena, Calif. Filed Nov. 8, 1917. Serial No. 200,962. 3 Claims. (Cl. 152—11.5.)

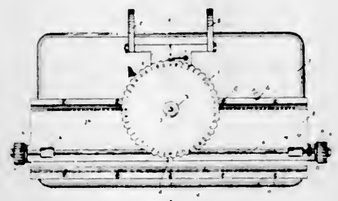


1. In combination a valve, pressure governor, and expansion chamber, so constructed as to be attached to a suitable tire valve stem, such stem providing a continuous passage through which the inflating medium may pass freely at all times between the tire and the expansion chamber, said combination consisting mainly of a threaded stem having mounted on its upper end a fixed diaphragm and bellows, the upper rim of said bellows being held between a dome and the upper edge of a casing which is movable longitudinally along the stem; the combination of the dome, bellows and diaphragm, providing an expansion chamber the cubical content of which is controlled by a coiled spring mounted circumferentially about the governor stem and coacting with and between the underside of the diaphragm and the lower end of the casing; said spring forcing down said casing so long as the tire pressure remains below the desired minimum.

1,337,317. PROCESS FOR THE PRODUCTION OF LOWER-BOILING HYDROCARBONS FROM HIGHER-BOILING HYDROCARBONS. ARTHUR EARL HOULEHAN, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed May 25, 1917. Serial No. 170,811. 18 Claims. (Cl. 23—24.)

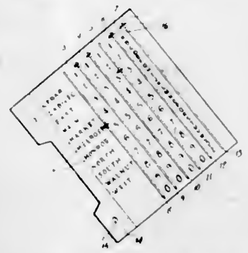
3. A process which comprises subjecting xylene to a catalyst under such conditions as will produce toluene and distilling off the latter under a vacuum during the course of the reaction.

1,337,318. DISK TYPEWRITER. DAVID JANKOWER, New York, N. Y. Filed Dec. 20, 1917, Serial No. 208,158. Renewed Mar. 13, 1920. Serial No. 365,661. 1 Claim. (Cl. 197—47.)



A typewriter with a hollow handle secured to and passing through a type-carrying disk, and rotatably secured to a hinged carrier; the said hollow handle being arranged to partake of both a circular and a downward motion, and having within its center a plunger with a pawl at its lower end, the said plunger being arranged to partake of only a downward motion and the pawl at its lower end being arranged to contact at intervals with teeth forming part of a paper carrier.

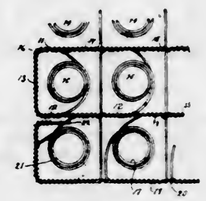
1,337,319. TELEPHONE-REMINDER. JOHN JASINA, Detroit, Mich. Filed Aug. 12, 1919. Serial No. 317,006. 1 Claim. (Cl. 116—135.)



A device of the class described comprising a frame having a plurality of equidistant horizontal lines drawn across the surface thereof, a plurality of equidistant vertical slots in said frame, indicating arrows slidable in said slots, said slots being so proportioned as to leave a relatively wide column and a plurality of relatively narrower columns, said wide column being located to one side of said narrow columns, the names of telephone exchanges being contained in said wide vertical column, numerals one to ten, inclusive, being contained in each of said narrow vertical columns in serial order from top to bottom, and an extension hingedly attached to the left-hand side of said frame and provided with ears, one at the top and the other at the bottom thereof, each of said ears having a perforation therein.

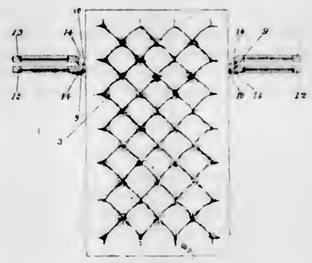
1,337,320. SPRING-MATTRESS. FRANCIS KARR, Holland, Mich. Filed May 17, 1919. Serial No. 297,862. 5 Claims. (Cl. 5—29.)

1. In a mattress, in combination, a plurality of vertical helical springs arranged in transverse rows, each helical having an enlarged convolution made up of straight portions and included angles, adjacent helicals in each row



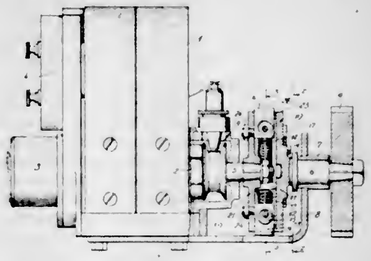
having straight portions of contiguous enlarged convolutions in alinement, and binding spirals fitting on such alined straight portions.

1,337,321. FOLDING BED. GEORGE R. MCALLASTER, Rochester, N. Y. Filed Apr. 24, 1919. Serial No. 292,263. 4 Claims. (Cl. 5—37.)



1. A bed comprising a support open at its rear, a bed frame mounted on the support to swing from a position of use to an upright position and, when in its position of use, having its end projecting beyond the rear face of the support, screen members mounted on the support to cover the bottom of the bed frame when the latter is upright, and screen members pivotally mounted on the support to cover the sides of the bed frame when the latter is upright and to swing outwardly at their rear free edges away from the bed frame and toward the foot of such frame.

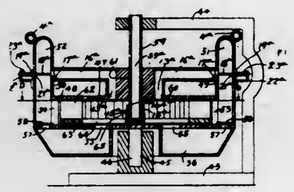
1,337,322. IMPULSE STARTING MECHANISM. FREDERICK DRAKE NORMAN, Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1917. Serial No. 192,460. 22 Claims. (Cl. 123—149.)



1. In impulse starting mechanism, driving and driven shafts, an impelling spring arranged to be stressed upon relative angular displacement of the shafts, locking

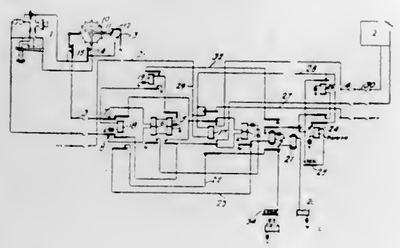
mechanism for locking the driven shaft against rotation while driving shaft is rotating, releasing mechanism for releasing the driven shaft, and angularly adjustable means carried by one of the shafts and coöperative with the locking mechanism to prevent locking of the driven shaft when the speed of the driving shaft exceeds the predetermined value for which said adjustable means are set.

1,337,323. METHOD OF GENERATING POWER BY INTERNAL COMBUSTION. PONTUS OSTENBERG, Los Gatos, Calif. Filed June 17, 1916. Serial No. 104,261. 5 Claims. (Cl. 60—12.)



1. The method of utilizing heat energy which consists in compressing and igniting an expansible charge against liquid in a revoluble generator and moving both liquid and generator by the expansion of said charge.

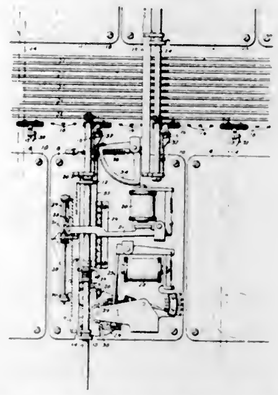
1,337,324. AUTOMATIC TELEPHONE SYSTEM. WINFRED T. POWELL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 28, 1918. Serial No. 225,219. 12 Claims. (Cl. 179—18.)



1. In a telephone system, a switch, a calling line, conductors at said switch to which said calling line may be connected, means for initiating a call on said line, means for establishing a connection between said line and said conductors, means for transmitting impulses over said conductors, a stepping relay at said switch normally disconnected from said conductors, and means controlled by said calling line independently of said call-initiating means for connecting said stepping relay to said conductors.

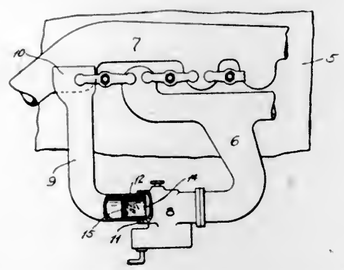
1,337,325. TELEPHONE-EXCHANGE APPARATUS. JOHN NEWBERRY REYNOLDS, Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1918. Serial No. 210,845. 10 Claims. (Cl. 179—27.5.)

1. In a telephone exchange, a supporting frame, a multiple terminal bank mounted upon said frame, a group of switches mounted upon said frame in a horizontal row below the terminal bank and arranged to extend longitudinally thereof, a group of switches mounted upon said frame in a horizontal row above the terminal bank and arranged to extend longitudinally thereof, said rows of switches being mounted upon the same side of the terminal bank, the switches of one row being vertically staggered



with respect to the switches of the other row, and contact means for each switch arranged to coöperate with the terminals of said bank.

1,337,326. AIR-CONTROL MECHANISM FOR CARBURETERS. ORRIN RICE, Los Angeles, Calif., assignor, by direct and mesne assignments, to U. S. Grant Hinton, Providence, R. I. Filed Oct. 18, 1916. Serial No. 126,399. 4 Claims. (Cl. 251—125.)



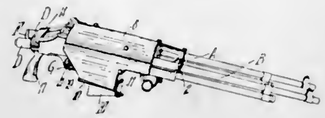
1. In combination with a carbureter and an air supply pipe connected thereto, a gas saver comprising a shell adapted to be inserted bodily into said air pipe at its connection with said carbureter, means for limiting the distance said shell can be inserted into the end of said pipe, a valve member pivoted transversely across said shell and wholly within the same, whereby to substantially close the passageway through said shell, and spring means to normally hold said valve closed.

2. A gas saver adapted for use in a carbureter, having an intake pipe embodying a shell insertible into said intake pipe and having means formed therewith for holding it in place in the intake pipe, a valve placed transversely across the interior of the shell substantially closing the passageway therethrough, and means normally to hold said valve closed.

3. A gas saver adapted for use in a carbureter, having an air intake pipe, embodying a shell insertible into said intake pipe, means for limiting the distance the shell can be inserted into the air intake pipe, a valve placed transversely across the interior of the shell substantially closing the passageway therethrough, and means normally to hold said valve closed.

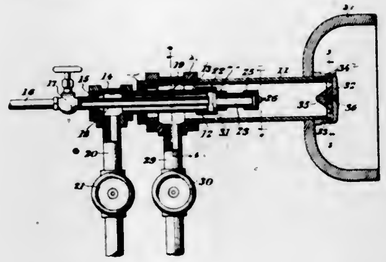
4. A gas saver adapted for use in a carbureter, having an air intake pipe, embodying a shell insertible into said intake pipe, the shell being split longitudinally and resiliently expansive to expand in the intake pipe and thus hold itself in place, means for limiting the distance the shell can be inserted into the air intake pipe, a valve placed transversely across the interior of the shell substantially closing the passageway therethrough, and means normally to hold said valve closed.

1,337,327. GUN-MOUNT. HUGH M. ROCKWELL, Bristol, Conn., assignor to The Marlin-Rockwell Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1918. Serial No. 254,058. 6 Claims. (Cl. 89—1.)



2. In a device of the character described, a frame having a transverse aperture therein, a box having a lateral opening attached to said frame, the upper portion of said opening being in alinement with said transverse aperture, means for attaching guns to said frame so that the ejector opening of one is in alinement with the transverse aperture and the ejector opening of the other is in alinement with the lower portion of the opening in the box.

1,337,328. BURNER FOR FIRE-POLISHING GLASSWARE. JESSE MADISON SAID, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Feb. 28, 1918. Serial No. 219,619. 7 Claims. (Cl. 158—76.)



6. The combination with a bell for fitting over a piece of glass-ware in spaced relation thereto, of means for introducing a swirling flame between the bell and the glass-ware, whereby to fire-polish the glass-ware.

1,337,329. DISTRIBUTER FOR HIGH-TENSION IGNITING DEVICES. MAX SCHÄFER, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed June 27, 1918. Serial No. 242,245. 8 Claims. (Cl. 200—24.)



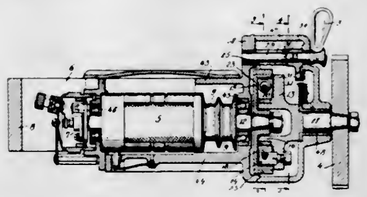
7. In a gap distributer, a series of spark plug terminals each having a rotatably supported element with sparking edges of easily oxidizable metal, and a rotor having a rotatably supported element with sparking edges of easily oxidizable metal, the sparking edges of the rotor element being arranged to extend at an angle to those of the terminal elements in spaced coöperation therewith.

1,337,330. SPECTACLE-TEMPLE. ISAAC M. SCHWAB, Savannah, Ga. Filed Sept. 13, 1919. Serial No. 323,559. 5 Claims. (Cl. 88—52.)



1. A spectacle temple having a non-metallic portion normally grooved on its inner face, and a resilient flat-sided strip of differing material seated in said groove and concealed by overturning the walls thereof, said strip adapted to reinforce the non-metallic portion and impart increased resiliency thereto.

1,337,331. IMPULSE STARTING MECHANISM. WOLFGANG E. SCHWARZMANN, Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1917. Serial No. 192,461. 37 Claims. (Cl. 123—149.)

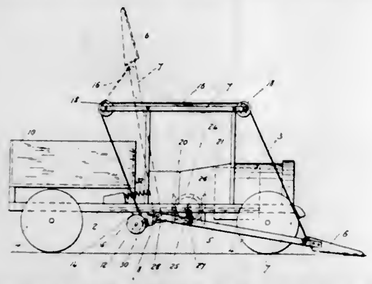


1. The combination with an internal combustion engine having a shaft and a magneto therefor having a shaft, of reversible impulse starting mechanism for the magneto comprising an impelling spring arranged to be stressed upon relative angular displacement of the shafts, a locking member for locking the magneto shaft against rotation while the engine shaft is rotating, and a releasing member for releasing the locking member from locking engagement, the locking and releasing member being constructed and arranged so that for each direction of rotation the magneto shaft is locked just prior to the position of maximum generation of the magneto and is released at substantially the beginning of the working stroke of the engine cylinder.

1,337,332. POWER-SHOVEL. FREDERICK R. SILLS, Elmwood, N. C., assignor of one-half to Carolina Motor Company, Statesville, N. C., a Corporation of North Carolina. Filed Jan. 14, 1919. Serial No. 271,027. 1 Claim. (Cl. 214—78.)

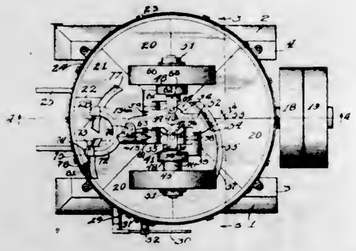
The combination, with a motor car, of arms pivoted to the middle part of the car frame, a shovel secured to the free end portions of the arms and adapted to engage with the ground in front of the car, a countershaft journaled longitudinally of the car frame, a worm wheel secured on the countershaft, a worm gearing into the said worm wheel, reversible intermediate driving devices operatively connecting the said worm with the driving motor of the car, a winding shaft journaled crosswise of the car frame, beveled toothed wheels connecting the countershaft with the winding shaft, winding barrels secured on the winding shaft and arranged one on each side of the car frame, front and rear guide sheaves supported above the front and middle portions of the car frame, the rear guide sheaves being arranged to the rear of the pivots of the

said arms, and flexible connections wound on the winding barrels and passing over the guide sheaves and operating



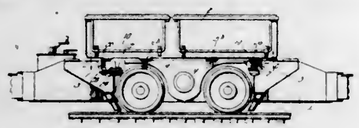
to raise the shovel so as to discharge its contents at the rear part of the motor car.

1,337,333. FOUNDRY-MIXER. HERBERT S. SIMPSON, Evanston, Ill. Filed Aug. 14, 1918. Serial No. 249,862. 7 Claims. (Cl. 83—73.)



1. A mixer comprising a material container, means permitting discharge of mixed materials, a spider in said container, means for rotating the same, an axle supported by said spider, a bracket adjustably mounted at one end of the axle, a muller journaled on said bracket, a second bracket adjustably mounted on the other end of the axle, a yoke member integral with said second bracket, and a plow blade mounted on each of the arms of the yoke member.

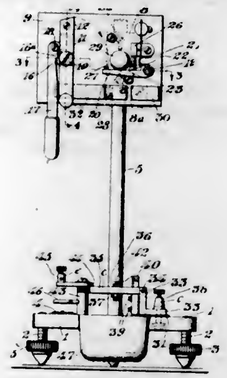
1,337,334. STORAGE-BATTERY LOCOMOTIVE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1919. Serial No. 343,200. 15 Claims. (Cl. 105—51.)



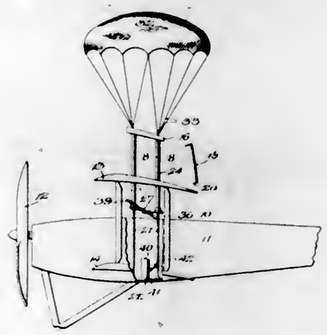
1. In combination with a locomotive frame, a storage battery box, resilient suspension means supporting said storage battery on said locomotive frame, and means yieldably restraining the movement of said storage battery box in all directions.

1,337,335. TIMING APPARATUS. IRVING B. SMITH, Ambler, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 5, 1919. Serial No. 275,122. 29 Claims. (Cl. 161—15.)

1. In apparatus of the character described, the combination with a member adapted to descend under the influence of gravity, of a member for supporting the same in starting position, and a hammer for striking said second named member from the path of descent of said first named member.

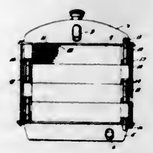


1,337,336. LIFE-SAVING DEVICE FOR AEROPLANES. FREDERICK ANDREW TOWNSLEY, Jersey City, N. J., assignor of one-half to Thomas Watts, Middletown, N. Y. Filed Sept. 14, 1918. Serial No. 254,032. 2 Claims. (Cl. 244—21.)



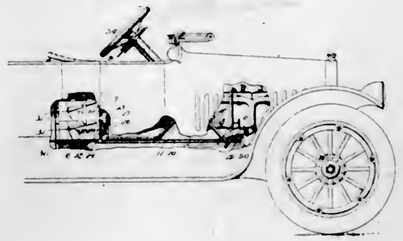
1. In combination with an aeroplane having an upper plane provided with an open frame, a tray section within said frame, an operator's seat supported by said section, a parachute within the section and attached thereto, releasable connections between said section and frame, a lid for said section adapted for engagement by said connections when the section is normally closed, and releasing means for said connections operable at a point adjacent the said seat.

1,337,337. RADIATOR. PHILIP J. TUCKER, Hartford, Conn., assignor to Tucker & Bonner, Hartford, Conn., a Partnership composed of Philip J. Tucker and William J. Bonner. Filed Apr. 29, 1918. Serial No. 231,535. 4 Claims. (Cl. 257—131.)



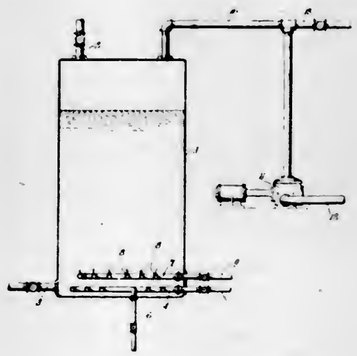
1. A radiator section comprising circulating tubes, and an inlet and an outlet nipple projecting from the outer surface thereof each being adapted to receive a connection from an adjacent section, said nipples being arranged to receive an independent connection bridging across a section.

1,337,338. METHOD OF AND MEANS FOR SUPPLYING INTERNAL-COMBUSTION ENGINES WITH FUEL. DAVID L. WINTERS, Edgewater, Md. Filed Jan. 4, 1917. Serial No. 140,655. 7 Claims. (Cl. 123—127.)



3. In combination with the carbureter of an internal combustion engine, of means for supplying such carbureter with a restricted supply of volatile fuel under all conditions of operation, and with an additional supply of less volatile fuel, the supply of said last-referred to fuel being automatically controlled by the load on the engine.

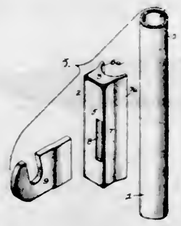
1,337,339. PROCESS OF REMOVING OR DECREASING OBJECTIONABLE ODORS FROM TREATED OILS. JAMES ELIOT BOOGE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 13, 1918. Serial No. 239,901. 2 Claims. (Cl. 87—12.)



2. The process which comprises subjecting blown cottonseed oil containing objectional odors to blowing with steam at a temperature of from 105° to 130° C. under decreased pressure to decrease said odors thereof.

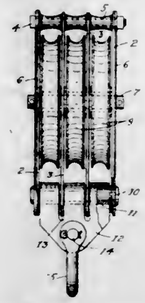
1,337,340. METALLIC BED. JOHN H. BRADLEY, Philadelphia, Pa. Filed Nov. 26, 1915. Serial No. 63,483. 5 Claims. (Cl. 5—55.)

1. The combination with the post of a metallic bed, of a hollow box-like member of sheet metal permanently secured to said post, a hook carried by the post and having a portion disposed within the box-like member; the latter being slotted for the passage of said hook, and means



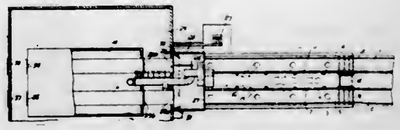
carried by that portion of the hook within the box to prevent its disengagement or dislodgmeent therefrom.

1,337,341. SHEAVE-BLOCK. HARRY LE ROY BRINK, St. Paul, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a Partnership. Filed June 24, 1918. Serial No. 241,626. 2 Claims. (Cl. 254—192.)



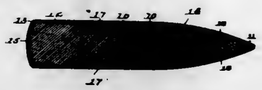
2. A sheave block comprising a pair of outer plates and a pair of intermediate plates spaced apart and in parallel relation, a plurality of sheaves mounted between said plates, a pin passing through said plates below said sheaves, a sheet metal stirrup folded to a substantially U-shaped form and supported by said pin and having slots extending partially therethrough to receive the lower ends of said intermediate plates, said intermediate plates engaging the walls at the ends of said slots and limiting the inward movement of said stirrup and said stirrup having depending ends provided with means for attaching a shackle or hook thereto.

1,337,342. PROCESS FOR WOOD DISTILLATION. CHARLES T. CLARK, Bay City, Mich., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 11, 1917. Serial No. 185,656. 4 Claims. (Cl. 203—6.)



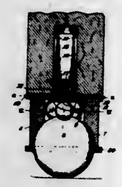
1. The process of wood distillation which comprises preheating wood which has been cut transversely to the grain into plaques whose dimension parallel to the grain is less than a dimension perpendicular to the grain, and then introducing the heated wood into a retort and subjecting it to destructive distillation.

1,337,343. SPOT-LIGHT BULLET. WALLACE L. CLAY, U. S. Army, and ANDREW H. HALLOWELL, Frankford, Pa. Filed Jan. 30, 1919. Serial No. 274,077. 4 Claims. (Cl. 102—29.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



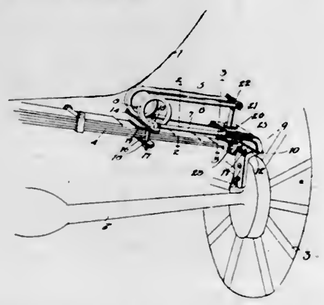
1. A device of the class described comprising a pointed jacket having gas escape apertures adjacent to its pointed forward end closed by fusible elements, a base plug weakly secured within the rear of the jacket, and a charge in the body of the jacket of a substance capable of ejecting a visible vapor and a flash of light through the apertures.

1,337,344. FURNITURE-CASTER. ANDREW CZYZYK, Grand Rapids, Mich. Filed Feb. 13, 1920. Serial No. 358,526. 4 Claims. (Cl. 16—151.)



1. In a furniture caster, a body member adapted for attachment to an article of furniture and hollow in its central portion to provide a substantially hemispherical socket at its lower end with a chamber thereabove, anti-friction members within said chamber, a spherical member disposed with its upper portion within said socket and with said anti-friction members bearing thereon, and means to adjust said anti-friction members upwardly or downwardly relative to the body for regulating the relationship of the spherical member with its socket.

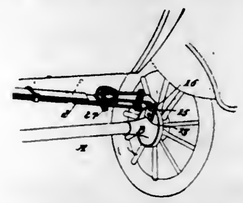
1,337,345. SHOCK-ABSORBER. THOMAS DAVIS, Mounds, Okla. Filed May 2, 1919. Serial No. 294,253. 7 Claims. (Cl. 267—27.)



1. The combination with a vehicle axle and spring, of a relatively U-shaped shock absorber spring including a pair of upper and a pair of lower resilient arms, spring coils connecting the arms, means connecting the lower spring arms with the axle, and means connecting the upper spring arms with the vehicle spring.

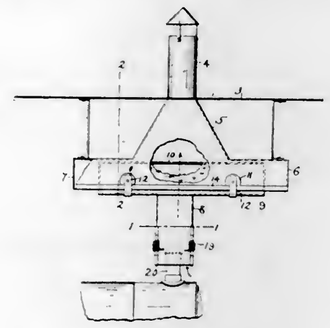
1,337,346. SHOCK-ABSORBER. THOMAS DAVIS, Mounds, Okla. Filed Sept. 5, 1919. Serial No. 321,776. 3 Claims. (Cl. 267—17.)

3. A shock absorber comprising a plate formed at one end for pivotal connection with a portion of a vehicle front axle housing, the other end of said plate being formed as an eye, a coil spring disposed upon said plate and including a plurality of convolutions disposed one above the other, the lowermost convolution having a portion extending through said eye and another portion engaging upon the top of said plate, means engaging said



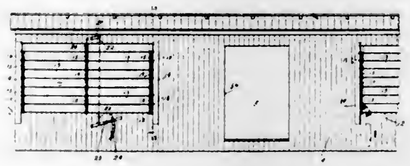
lowermost convolution for holding the spring and said plate upon the vehicle spring, a spring arm formed on the uppermost convolution and extending in spaced relation to and above said plate, a rod connected with the end of the master leaf of the vehicle spring and extending through said plate, and a member carried by the upper end of said rod and engaging the end of said arm.

1,337,347. LOCOMOTIVE ROUNDHOUSE-JACK. GEORGE F. DEVINE, Portland, Me. Filed June 23, 1919. Serial No. 306,114. 8 Claims. (Cl. 104—52.)



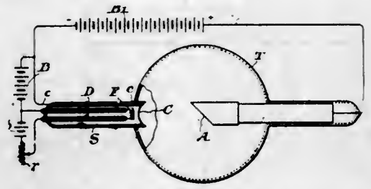
1. In a locomotive jack, the combination of a ventilating stack, a hood connected therewith, a hollow ventilating shaft depending from said hood and a pair of spring closed folding doors in the side of said shaft at its lower end adapted to allow the locomotive stack to enter said shaft horizontally.

1,337,348. CONVERTIBLE STOCK AND FREIGHT CAR. JOHN EDMAN, Minneapolis, Minn., assignor, by mesne assignments, to Patrick M. Power, Chicago, Ill. Filed July 20, 1918. Serial No. 245,876. 2 Claims. (Cl. 105—378.)



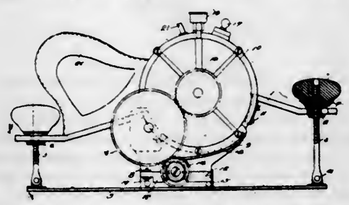
1. The combination with a car body having window openings in its sides, of horizontally disposed shutter bars hinged in the window openings at their upper edges for outward swinging movements at their lower edges, the opening movements of said shutters projecting the same beyond the sides of the car in oblique positions, coupling devices connecting the free edges of said shutters, and connections to said coupling devices for moving the shutters to and from closed positions.

1,337,349. METHOD OF AND APPARATUS FOR PRODUCING X-RAYS. CORNELIUS D. EHRET, Philadelphia, Pa. Filed Nov. 13, 1918. Serial No. 262,277. 11 Claims. (Cl. 250—35.)



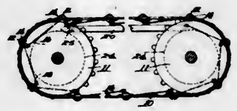
1. The method of producing X-rays, which consists in exciting a body to emit primary electrons, bombarding a cathode by said primary electrons to cause reëmission of secondary electrons, and bombarding an anti-cathode to produce X-rays by secondary electrons reëmitted by said cathode to the exclusion of bombardment by said primary electrons.

1,337,350. PORTABLE PLANING-MACHINE. FRANK L. FORWARD, Nyack, N. Y., assignor to Universal Planer Company, Inc., a Corporation of Delaware. Filed Mar. 14, 1918. Serial No. 222,357. 1 Claim. (Cl. 144—117.)



An apparatus for planing curved surfaces which comprises in combination a main frame and motor mounted therein, a flexible base strip attached to said main frame and means for adjusting the same to fit the curvature of the surface to be planed, said base having a transverse slot through which the cutting knives may operate, a rotary cutter geared to the motor, and a sub frame in which said cutter is journaled, a spring metal strip fastened near one edge to the main frame and near the other edge to one end of the sub frame so as to form a hinge support for the latter, and a screw mounted in the main frame and forming an adjustable support for the other end of the sub frame.

1,337,351. CARRIER FOR DRIERS AND THE LIKE. FRANK L. FURBUSH, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed May 31, 1919. Serial No. 300,934. 12 Claims. (Cl. 193—2.)



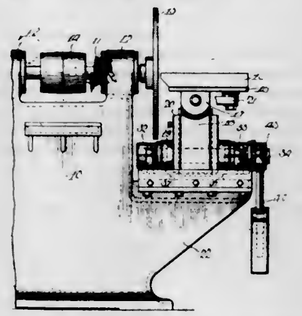
1. In a carrier, the combination with a fixed support, of chains above the support, a series of plates pivotally connected with the chains, located between them, and dragging along on said support at their rear edges and overlapping each other to hold the material to be carried but vertically spaced materially apart at their overlapping ends to afford wide air spaces between them.

1,337,352. WORK-TABLE FOR GRINDING-MACHINES. EDWARD B. GARDNER, Beloit, Wis., assignor to Badger Tool Company, Beloit, Wis., a Corporation of Wisconsin. Filed Sept. 21, 1918. Serial No. 255,022. 10 Claims. (Cl. 51—13.)



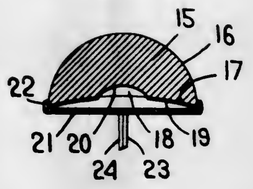
1. A work-table comprising a support, a table top slidably mounted thereon, a shaft journaled in said support, a hand lever fixed on said shaft and adapted to be swung by the operator, and means disposed between said table top and said support and adapted to be actuated by said shaft for moving said table top with a gradually increasing force upon application of uniform force to said hand lever.

1,337,353. GRINDING-MACHINE. EDWARD B. GARDNER, Beloit, Wis., assignor to Badger Tool Company, Beloit, Wis., a Corporation of Wisconsin. Filed May 19, 1919. Serial No. 298,170. 21 Claims. (Cl. 51—12.)



1. In a machine of the class described, in combination, a body, an operating element, a work-table, a rotatable shaft carrying said work-table, and bearings carrying said rotatable shaft, said bearings being movable toward and away from the vertical plane of said operating element.

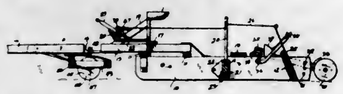
1,337,354. TOY. FLORENCE GARRIGUE, Danvers, Mass. Filed Aug. 11, 1919. Serial No. 316,557. 7 Claims. (Cl. 46—40.)



1. A toy formed in simulation of a living being and having eyes provided with transparent surfaces and com-

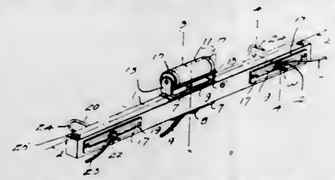
prising a central dark portion corresponding to the pupil and a surrounding portion corresponding to the iris of the natural eye, comprising luminescent material.

1,337,355. LAND-LEVELING MACHINE. GEORGE A. GHENT, Buhl, Idaho. Filed Mar. 10, 1919. Serial No. 281,721. 4 Claims. (Cl. 37—5.)



1. An earth working machine of the character described comprising parallel runners braced from each other and having a forwardly extending frame mounted at its forward end and provided at its extremity with a clevis, a roller supporting frame having a tongue provided with a hook to engage said clevis, an adjustable roller supported on the rear ends of the runners, and means for adjusting said rear roller to elevate the rear portion of the runners and increase the weight of the front roller by pressure of the clevis on the tongue.

1,337,356. LOADING AND UNLOADING DEVICE. BURNIE L. HIMES, Brasfield, Ark. Filed June 21, 1919. Serial No. 305,789. 1 Claim. (Cl. 193—56.)



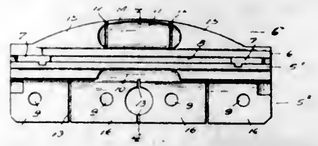
In a loading and unloading device, the combination with a supporting bar having slots in its opposite ends arranged horizontally crosswise through the bar, hooks having their shanks engaging through the slots, said hooks having their extremities sharpened to engage the inner face of the side of the car near the jamb, means threaded upon the shanks of the hooks and having manually operated arms for tightening said means to hold the shanks of the hooks in different adjusted positions in the slots, said bar having a central slot at right angles to the first slots, a U-shaped plate mounted on the bar and carrying a loading and unloading lumber roller, means passing through the U-shaped plate and the central slot for holding the plate in different adjusted positions in the central slot and also holding the plate in different angular positions relative to the bar.

1,337,357. FUSE-INDICATOR. WILLIAM H. HOLDORF, Minneapolis, Minn. Filed Aug. 2, 1918. Serial No. 248,011. 6 Claims. (Cl. 175—273.)



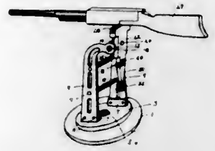
2. An attachment for indicating the presence of a blown fuse consisting of a spring actuated plunger having an enlarged disk indicating means on its outer end and an intermediate movement guiding disk, the inner end of the plunger being adapted to engage a fuse device.

1,337,358. LINOTYPE-MOLD. EDWARD L. HOLMES, Seattle, Wash., assignor to Printing Trades Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed Aug. 13, 1919. Serial No. 317,179. 7 Claims. (Cl. 199—56.)



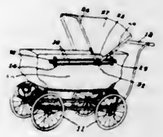
1. A slotted linotype mold consisting of complementary body and cap members provided with transversely arranged slits extending from the lower and upper edges respectively of said members into the proximity of the lower and upper walls of the mold slot.

1,337,359. GUN-MOUNT. MILLARD L. JOHNSTON, Utica, N. Y. Filed May 26, 1917. Serial No. 171,239. 5 Claims. (Cl. 89—40.)



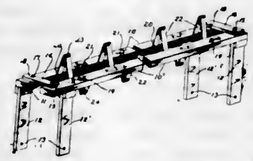
1. In a gun mount, a hanger having a recess for holding a gun, a pivotally mounted weight for holding said hanger in vertical position, a yoke having an annular recess for mounting said hanger, antifriction members disposed in said recess to facilitate the turning of said hanger, standards for pivotally supporting said yoke, and a revoluble base for supporting said standards.

1,337,360. BABY-COACH AWNING. JOUZAS KARASEVICZ, South Amboy, N. J. Filed May 29, 1919. Serial No. 300,665. 1 Claim. (Cl. 296—110.)



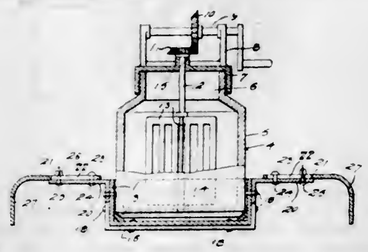
In a device of the class described, the combination with a hollow body having raised side walls, of foot brackets at the ends of said body near the upper edge thereof, parallel rods extending between said brackets, other brackets slidably engaged with said rods, bolts passing through said brackets, said bolts having elongated heads containing openings engageable with said rods, a hood, a frame therefor, plates at the converging ends of said frame, bushings passing through openings in said plates, lugs on said plates extending outwardly, washers having corresponding lugs adapted to make contact with the lugs on said plates, and clamp nuts on the threaded ends of said bolts whereby said washers may be drawn into engagement with said plates holding said hood in an adjusted position angularly and also longitudinally with respect to said rods.

1,337,361. CONVERTIBLE LADDER AND BENCH. STANLEY KASPER, Buxton, Iowa. Filed July 2, 1919. Serial No. 308,248. 3 Claims. (Cl. 228—2.)



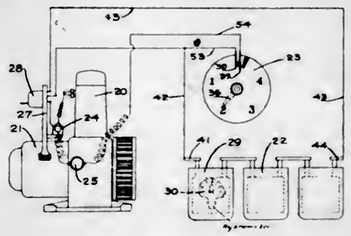
1. In a convertible ladder and bench, the combination with a pair of rectangular bars, means hinged to one of said bars engageable with the opposite disposed bar whereby the bars are held in rigid spaced relation, and a plurality of sectional rung elements hingedly engaged between the inner edges of said bars, the sections of each rung being hingedly attached so as to be capable of folding alternately above and below the surface of said bars when the device is used as a seat.

1,337,362. CHURN-SUPPORT. MILTON C. KENNERLY, Stuart, Okla. Filed Jan. 24, 1920. Serial No. 353,745. 3 Claims. (Cl. 248—30.)



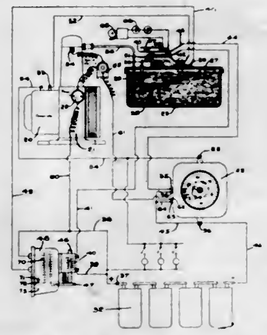
1. In a support for a churn, the combination with a receptacle conforming to and adapted to receive the churn body, said receptacle having oppositely arranged laterally extending arms, certain of the arms engaging the legs of the operator adjacent the body of the operator, certain other of said arms resting upon the legs adjacent the knees and means carried by the last mentioned arms to engage the sides of the legs of the operator adjacent the knees when the legs are spread apart so as to hold the receptacle and the churn body in an upright rigid position.

1,337,363. SYSTEM OF ELECTRICAL DISTRIBUTION AND CONTROL. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 27, 1916. Serial No. 133,651. 4 Claims. (Cl. 290—35.)



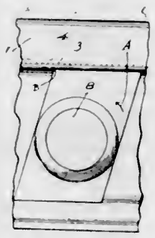
1. In a device of the character described, the combination with an engine and charging unit driven by the engine; of a storage battery; a device located within said battery for visibly indicating the state of charge thereof during its charging and discharging operation; and means adapted to be set in accordance with said indicating device automatically to discontinue the operation of the engine and charging unit after the charging unit has operated a predetermined time interval.

1,337,364. SYSTEM OF ELECTRICAL GENERATION AND CONTROL. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 16, 1916. Serial No. 137,360. 11 Claims. (Cl. 290—35.)



5. In a device of the character described, the combination with an engine having a fuel supply; of a storage battery; an electric machine connected to said engine and to said storage battery, and adapted to automatically stop and start the engine in accordance with predetermined conditions of the battery charge; and means controlled by the fuel supply for entirely preventing the operation of the electric machine as a motor to start the engine when the fuel supply reaches a predetermined low point, or for immediately discontinuing the operation of the starting device in case the fuel supply reaches a predetermined low point.

1,337,365. RAIL-BOLT. MART J. MADISON, Norwood, Ohio, assignor to Weir Frog Company, Norwood, Ohio, a Corporation of Ohio. Filed Jan. 14, 1920. Serial No. 351,465. 4 Claims. (Cl. 238—260.)

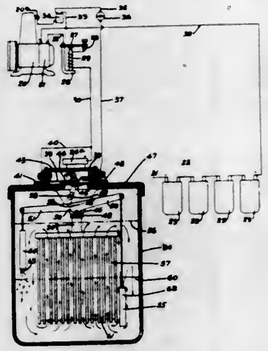


1. A rail bolt comprising a shank and a flanged portion rigid with the shank, and having a flat contact face, said face not being at a right angle to the radial line through the bolt bisecting said face.

1,337,366. CIRCUIT-BREAKER. THOMAS MIDGLEY, Jr., Dayton, Ohio, assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 15, 1918. Serial No. 217,359. 21 Claims. (Cl. 171—314.)

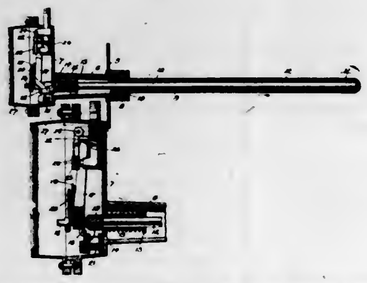
1. In a hydrostat controlled circuit breaker, the combination with contact elements; of a beam pivoted at an intermediate point; and displacement members suspended by the beam in the electrolyte of a storage cell.

20. In a hydrostat circuit breaker, the combination with coöperating contact elements including a movable element to be controlled; of a hydrostatic device adapted to be associated with the storage battery electrolyte and



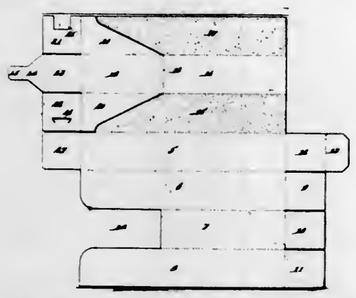
arranged to operate said movable element, the movement of said hydrostatic device being due to the difference of temperature between the upper and lower levels of electrolyte during the inversion of stratification.

1,337,367. HIGH-TEMPERATURE THERMOSTAT. ARTHUR J. OTTO, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 11, 1915. Serial No. 7,630. 6 Claims. (Cl. 297—14.)



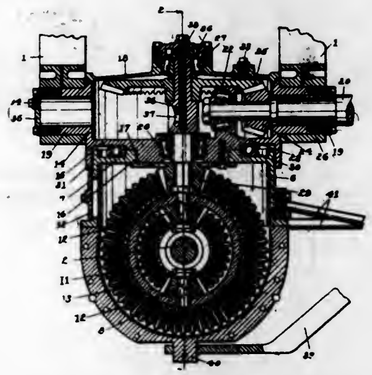
1. A thermostatic couple comprising in combination two mechanically related elements, one of said elements being composed of alundum, and the other of fused silica.

1,337,368. FOLDING BOX. EDWARD E. PINKERTON, Chicago, Ill., assignor of one-half to Charles Harker Hudson, Chicago, Ill. Filed Aug. 11, 1915. Serial No. 44,921. 6 Claims. (Cl. 229—17.)



1. A folding box formed from a single blank of material comprising a bottom member; a side member at one edge of said bottom member; a top member at the edge of said side member; a side member at the edge of said top member; means at one end of said members for closing the corresponding end of the box; and a drop cover member for the other end of the box formed from the corresponding portions of said top member and the adjoining portions of said side members, substantially as described.

1,337,369. TRACTOR DRIVING-GEARING. HENRY P. POLASKI, Big Rapids, Mich., assignor to The Four-Drive Tractor Company, Inc., Big Rapids, Mich. Filed Jan. 16, 1920. Serial No. 351,889. 4 Claims. (Cl. 74—99.)

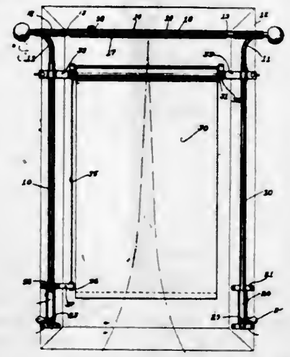


1. In a structure of the class described, the combination of a pair of driven axles, housings therefor, a differential housing having a cylindrical upper portion with an internal flange-like bearing member at its top, a differential driving gearing for said axles disposed within said differential housing and comprising a differential driving gear, a cylindrical gear box provided with supporting gudgeons, a removable top and a bottom having a bearing member coacting with said bearing member at the top of said differential housing and an annular flange embracing the upper end of said housing, a retaining ring secured to said gear box bottom to engage the under side of said bearing member, a thrust bearing disposed between the bottom of said gear box and said bearing member, a vertically disposed jack shaft projecting through the bottom of said gear box and having a pinion on its lower end meshing with said differential driving gear, bearings for said jack shaft on the bottom and top of said gear box, a downwardly facing beveled driven gear on said jack shaft, a driving shaft disposed through one of said gear box gudgeons and provided with a driving pinion meshing with said driven gear on said jack shaft, a bearing for the inner end of said driving shaft mounted on the bottom of said gear box, said gear box constituting a lubricant receptacle, said jack shaft having a longitudinal bore in its upper end opening into the gear box, and a spirally grooved rod mounted on the gear box top and depending into said bore for conveying lubricant to the upper bearing of said jack shaft.

1,337,370. CURTAIN AND SHADE FRAME. ALBERT J. PUKT, Boston, Mass. Filed Oct. 15, 1919. Serial No. 330,762. 3 Claims. (Cl. 156—27.)

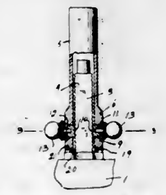
3. In a device of the class described, the combination with a window frame, of brackets secured transversely on said frame on each side and at the top and bottom, slotted sleeves arranged between the lower of said brackets, tubular rods slidable in said sleeves, said rods being guided by the upper of said brackets, means for raising and lowering said rods, means for maintaining said rods when in a raised position, bars having outturned upper

ends engaged in said rods, an adjustable sectional bar extending across said frame carried by the ends of said bars, means formed with said transverse bar adapted to



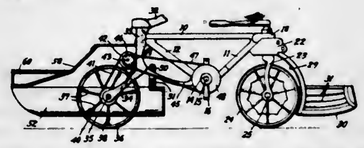
engage draperies, shade supports fixed on said rods, a roller carried by said supports, a sprocket fixed on said roller, and a hand operated chain engaged with said sprocket whereby said roller may be rotated.

1,337,371. QUICK-ACTING DUST-CAP FOR INFLATING VALVE-STEMS. WINDSOR L. RICHARDS, Portland, Oreg. Filed Aug. 2, 1919. Serial No. 314,996. 6 Claims. (Cl. 152—12.)



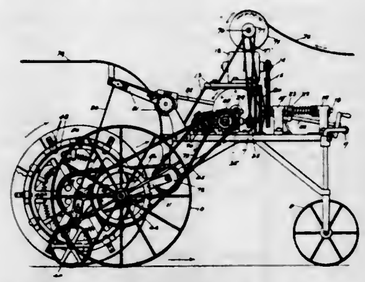
3. The combination with an inflating valve stem provided with diametrically opposite segmental threads extending longitudinally of the stem, of a cap fitting the stem, a ring rockably mounted on the interior of the cap and having diametrically opposite segmental threads to coöperate with the threads of the stem, when the ring is moved in one direction and to assume positions out of registration with the threads of the stem when moved in the opposite direction, means extending through the wall of the cap and connected to the ring, and means for latching the ring to hold its segmental threads in coöperation with the threads of the stem, thereby preventing vibrations from moving the ring, one end of the cap having diametrically opposite shoulders and means interposed between the shoulder end of the cap and the casing of the valve and provided with spring tongues to engage said shoulders to prevent retrograde movement of the cap.

1,337,372. WATER-BICYCLE. MIKE SOPCENSE, Soperton, Wis. Filed Aug. 13, 1919. Serial No. 317,338. 3 Claims. (Cl. 115—26.)



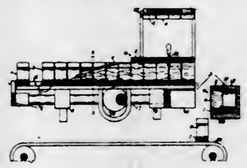
1. In a water bicycle, the combination with a frame, a driving wheel rotatable at the rear of said frame, a steering wheel, supports for said steering wheel, said supports being pivoted in a vertical axis at front of said frame, and means for actuating said supports, of a countershaft secured to said frame, a pair of pedals engaged in said frame, through which power may be communicated to said countershaft and to said driving wheel, a pair of floats at the rear of said frame, on either side of said driving wheel, and a single float supported in advance of said steering wheel, said floats being adapted to sustain the weight of the bicycle and the rider thereon.

1,337,373. SAND-MIXING MACHINE. RUSSELL C. STOKES, Portland, Oreg. Filed Sept. 22, 1919. Serial No. 325,415. 6 Claims. (Cl. 259—144.)



1. In a machine of the character described, the combination therein of, a chassis, a drum rotatably mounted therein, sharply pitched helical blades upon and about the outer parts of the drum for a desired distance toward its center, and arranged in a manner to allow them to engage and cast material below them toward the center of the path of travel of the chassis, a plural series of fingers extending outwardly from the drum between said blades, means to retain said fingers in resilient position, mechanism in the chassis arranged to transmit power from a source therein to allow one rear wheel thereof to be rotated at a desired speed, and mechanism in the chassis arranged to transmit power independently from the same source to allow said drum to be rotated at a desired speed differing from that of the chassis, for the purposes indicated.

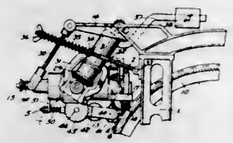
1,337,374. APPARATUS FOR PACKING FOOD PRODUCTS. NATHAN R. VAIL and WILLIAM B. COBERLY, Los Angeles, Calif. Filed Nov. 24, 1917. Serial No. 203,732. 3 Claims. (Cl. 100—57.)



2. An apparatus according to claim 1, provided with means for spacing adjacent carriers, to enable insertion of a severing means between the carriers, for transversely severing the product.

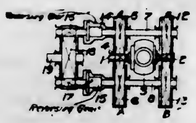
3. An apparatus for packing food products, comprising a conveying means, a series of carriers removably mounted thereon, to be carried successively forward, said carriers having their lower members provided with open topped recesses adapted to receive the food product, and upper members for closing said recesses, and said carriers being spaced apart to permit of insertion of severing means between them, carrier and container holding means for receiving the carriers and holding them adjacent to suitable containers, and means for ejecting the food product from the carrier so held into the container.

1,337,375. BELLY-FINNING HEAD FOR FISH-CLEANING MACHINES. EDWARD H. WAUGH, Seattle, Wash., assignor to Smith Cannery Machines Co., Seattle, Wash., a Corporation of Washington. Filed Dec. 8, 1917. Serial No. 206,275. 20 Claims. (Cl. 17—10.)



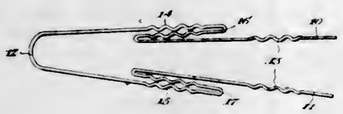
1. The combination with fin cutters of a rotatable reel engaging the fish in advance of the cutters and yieldingly held toward the fish.

1,337,376. GEARING FOR STEAM OR GAS TURBINES. OSCAR ANTON WIBERG and GEORG KARLSSON, Finspong, Sweden, assignors to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Filed June 10, 1919. Serial No. 303,218. 5 Claims. (Cl. 74—7.)



1. The combination with a steam or gas turbine having oppositely rotating shafts, of a pair of intermediate shafts, gears connecting the turbine shafts with the intermediate shafts, a reversing gear mounted on each intermediate shaft, and means for transmitting motion from the reversing gears.

1,337,377. HAIRPIN. ROSETTA M. WILSON, Claremore, Okla. Filed Aug. 11, 1919. Serial No. 316,619. 3 Claims. (Cl. 132—22.)



1. A wire hair pin of U-shape formed of a single strand of wire having its prongs provided with portions doubling back upon themselves intermediate their ends to form supplemental U-shaped prongs of reduced length as compared to the main prongs, whose closed ends extend generally in the direction of the free ends of the main prongs and in adjacent though spaced relation to the latter.

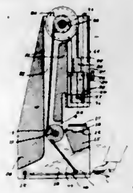
1,337,378. FISHING-ROD. MIKOLAS WINSKAS, Easthampton, Mass. Filed Oct. 11, 1919. Serial No. 330,030. 3 Claims. (Cl. 43—18.)

3. In a fishing rod, the combination with a hollow casing and a head engaged therewith, of an intermediate tube slidable in said casing, said intermediate tube containing an elongated slot having angular ends, an interior tube slidable in said intermediate tube, a perforate tip at the end of said interior tube, a head formed with said intermediate tube, a pair of oppositely disposed plungers operative in said head, means for normally pressing said plungers outward, means formed interiorly in said casing at each end thereof adapted to receive said plungers whereby said intermediate tube may be held in either an



extended or retracted position, and means carried by said interior tube engaged in the mentioned slot, whereby said tubes may be held in adjusted position.

1,337,379. DROP-HAMMER. ALEX ZAWADA, Rembrandt, Manitoba, Canada. Filed June 18, 1919. Serial No. 305,046. 3 Claims. (Cl. 78—30.)



3. In a drop hammer, the combination with a frame, a spindle in said frame, pulleys engaged on said spindle, a treadle and a tup slidably arranged therein, of a bar adapted to slide in said tup, said bar having transverse openings, a pin passing through said tup and openings into said bar whereby tup and bar may be relatively adjusted, a flat spring riveted to said tup for frictionally holding said tup in an adjusted position and operative connections between said bar and pulleys, substantially as described and for the purpose set forth.

1,337,380. COATING PROCESS. WALTER ALEXANDER, New York, N. Y. Filed Oct. 20, 1915. Serial No. 56,935. 23 Claims. (Cl. 91—68.)

1. The process of producing a decorative coating having a metallic appearance upon a fibrous surface consisting in coating said surface with an adhesive solution of a water-soluble salt of a base metal capable of readily forming sulfids and causing a reaction between said salt and a sulfur-containing substance.

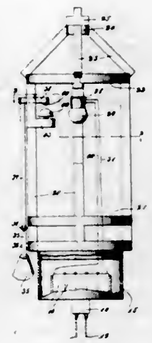
1,337,381. ADHESIVE. WALTER ALEXANDER, New York, N. Y. Filed Feb. 8, 1917. Serial No. 147,329. 2 Claims. (Cl. 87—17.)

2. A clear transparent adhesive formed of 80 parts of soluble silicate solution, 4 parts of a water soluble borate, 8 parts additional water, and a sufficient quantity of soda (approximately 8 parts) to avoid precipitation.

1,337,382. ADHESIVE COMPOSITION AND PROCESS OF MAKING SAME. WALTER ALEXANDER, New York, N. Y. Filed Mar. 13, 1917. Serial No. 154,453. 11 Claims. (Cl. 87—17.)

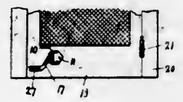
11. An adhesive composition containing dexterinized starch and calcium chlorid, substantially free from glucose and from tackiness upon its exposed surface when cold.

1,337,383. DEVICE FOR LOCATING SUNKEN SHIPS. GREGOR ALEXOVITS, Guttenberg, N. J. Filed Nov. 2, 1918. Serial No. 260,902. 1 Claim. (Cl. 9—9.)



A device for locating sunken vessels comprising in combination with a buoy having an upright frame, a bracket secured to said frame, a bell upon said bracket, a guiding means attached to said frame, a transverse bar moving vertically in said guiding means, a downwardly extending knob on one end of said transverse bar adapted to make contact with said bell, a vertical bar secured to the other end of said transverse bar, a lever at the free end of said vertical bar and a float on said lever adapted to rise and fall with the waves and cause said knob to strike said bell, substantially as described.

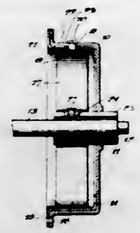
1,337,384. DOOR-OPENER. EARL E. ALLEN, Council Bluffs, Iowa. Filed Jan. 20, 1920. Serial No. 352,730. 1 Claim. (Cl. 16—10.)



An improved door opener comprising a reversible substantially triangular plate having perforations therein and adapted to be fitted against a door near the lower free end thereof, a second substantially triangular plate made in one piece with the first-named plate and extending at an obtuse angle with respect to the same, said last-named plate having three perforations therein arranged in substantially triangular formation, a bar adapted to be fitted against one side of said last-named plate, a pair of fastenings going through said bar adapted to enter the apex perforation and one of the other perforations of the group of triangular perforations whereby to reversibly hold the bar in an inclined position to the horizontal, said bar having turned up edges and provided with a foot piece of tubular construction bent from the outer end of the bar at an obtuse angle with respect thereto.

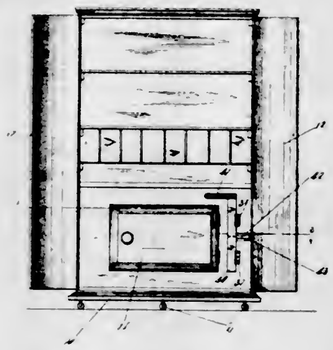
1,337,385. SPRING-MOTOR. OLIVER EDWARD BOAS, Fort Smith, Ark. Filed Aug. 20, 1919. Serial No. 318,799. 13 Claims. (Cl. 185—45.)

9. The combination with an element, of a coil spring surrounding the same, and provided near its inner end with an opening and means connecting the inner end of the spring with said element including a slide adapted for engagement with said element, a head adapted to engage said spring, and a shank extending through the



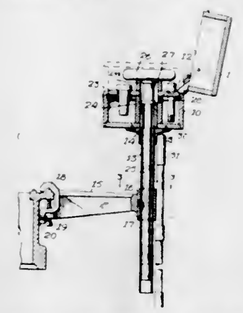
opening of said spring for connecting said head and said slide.

1,337,386. SAFE-LOCK. JOHN BORYK, Ansonia, Conn. Filed June 27, 1918. Serial No. 242,193. 3 Claims. (Cl. 70—74.)



1. In a device for preventing the retraction of bolts, the combination with a lock casing and a bolt slidable therein, of a lever pivoted in said casing, said lever engaging with one of said bolts, a rod pivoted to the extreme end of said lever and extending through said lock casing, a bar hinged vertically at the rear of said lock, a handle on said bar by which it may be operated, and an extending element secured to said bar adapted to make contact with said rod, whereby it is prevented from retraction.

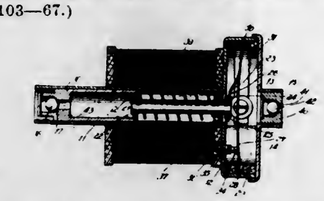
1,337,387. TOOL-CABINET. CONSTANT BOUILLON, Torrington, Conn., assignor to Hendey Machine Company, a Corporation of Connecticut. Filed Aug. 20, 1919. Serial No. 318,647. 4 Claims. (Cl. 82—34.)



2. A tool cabinet comprising a box with a flat tool supporting member spaced from the bottom thereof and a tubular boss extending above said member, a hollow post on which said box is mounted, said post being alined

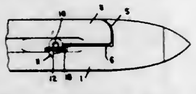
with said boss, and means to secure said post to a supporting structure, and to permit vertical adjustment thereof.

1,337,388. ELECTROMAGNETIC FUEL-PUMP AND CIRCUIT THEREFOR. CLIFFORD C. BRADBURY, Chicago, Ill. Filed May 19, 1916. Serial No. 98,560. 4 Claims. (Cl. 103—67.)



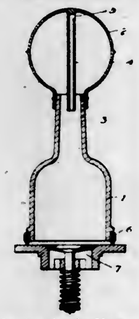
2. A fuel pump for feeding fuel from a supply reservoir to a carbureter at a higher level than the reservoir comprising a fuel conduit, an electro-magnetic coil disposed around the conduit, an armature pump piston reciprocable longitudinally within the conduit, a fuel pocket communicating with the conduit, and automatic switching means operated by the piston submerged in the fuel contained in the pocket, said means being in circuit with the coil to cause energization or deënergization of the electro-magnetic coil.

1,337,389. THREAD-EYE FOR SHUTTLES. GEORGE M. CHENEY and LEON C. HARWOOD, Southbridge, Mass., assignors to Litchfield Shuttle Company, Southbridge, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1915. Serial No. 48,316. 3 Claims. (Cl. 139—46.)



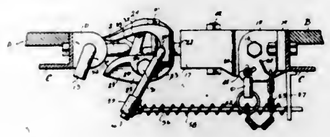
2. A loom shuttle apertured to form an eye hole and slotted to provide a thread passage thereto, a thread eye located within said eye hole having a hollow vitreous thread engaging member and an inclosing casing provided with registering longitudinal bottom slots communicating with said threading slots, a staple engaging a portion of the outer wall of the thread eye and lining member at the rear of said slot to secure the same in the eye hole and spaced apart from said wall upon the opposite side of said slot whereby the thread may be introduced readily through the guiding slot in the thread eye but will be prevented from escaping therefrom.

1,337,390. VALVE-TESTING DEVICE. EUGENE COLEMAN, Oakland, Calif. Filed Dec. 30, 1918. Serial No. 268,947. 2 Claims. (Cl. 73—51.)



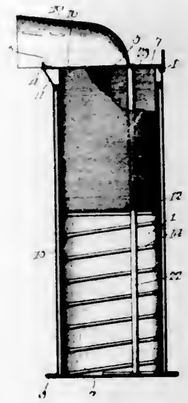
1. A valve testing device including a chamber applicable to a valve, means for exhausting the air from said chamber, and means for determining the degree of vacuum produced in said chamber.

1,337,391. AUTOMATIC DRAW-BAR COUPLING FOR VEHICLES. ARTHUR L. COOPER, Los Angeles, Calif. Filed May 26, 1919. Serial No. 299,759. 9 Claims. (Cl. 213—54.)



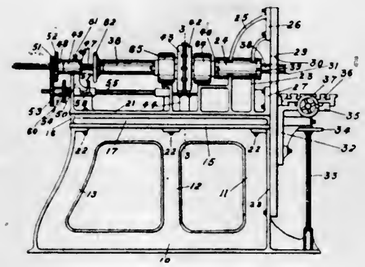
1. The combination with a vehicle having a relatively fixed, horizontally disposed coupling loop extending from one end, of a second vehicle having a relatively fixed coupling head supported in the same plane as the coupling loop comprising upper and lower jaws, a latching member pivoted rearward of its center between said jaws for vertical movement and normally having its front end hanging downward in unlatching position, said latching member being formed with a medially disposed tongue projecting upwardly when the latching member is in a raised position and adapted to be engaged by said first named coupling loop when the latter is moved into the space between said jaws, said latch having a hook-shaped portion at its forward end adapted to engage with the coupling loop when the latch is raised and holding the coupling head and loop from relative movement, and a locking device pivoted to the coupling head at a point between said jaws and in alinement with the coupling loop and disposed entirely below the upper jaw, the latch having a tooth rearward of said tongue over which the locking device engages when the latch is in its raised and coupling position whereby draft is transmitted from the coupling latch in a straight line to the locking device.

1,337,392. DISPENSER FOR PAPER-CUP BLANKS. DAVID F. CURTIN, Chicago, Ill. Filed July 23, 1917. Serial No. 182,200. 7 Claims. (Cl. 211—29.)



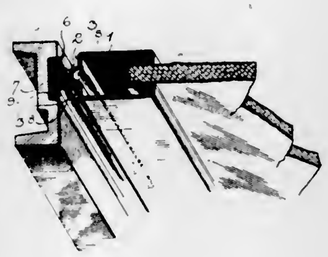
1. A device of the kind described, comprising a tubular barrel open at one end, a closure at the open end of said barrel, an outlet opening being provided along one margin of said closure and a slot formed in said closure extending transversely of said outlet opening toward the center of said barrel, in combination with a carrier positioned in said barrel and arranged to move longitudinally thereof and resilient means tending to normally maintain said carrier at the open end of said barrel, and fixed means positioned within said barrel adapted to engage said articles for preventing rotation of said articles in said barrel.

1,337,393. BORING-MACHINE. EDGAR A. DE FOREST, Minneapolis, Minn., assignor to Marvel Machinery Company, Minneapolis, Minn. Filed Mar. 26, 1917. Serial No. 157,334. 6 Claims. (Cl. 77—3.)



1. A boring machine comprising a rotatable operating member, a gear splined thereon, two pairs of prime movers positioned in pairs on the opposite sides of said member, and a gear between each pair of said prime movers for joint operation thereby, said gears meshing with the first-named gear at diametrically-opposite points.

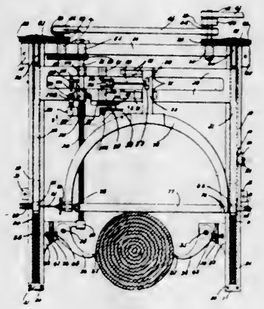
1,337,394. WEATHER-STRIP. FREDERICK A. DILLINGHAM, Troy, Ohio, assignor to The Troy Carriage Sunshade Company, Troy, Ohio, a Corporation of Ohio. Filed Mar. 20, 1917. Serial No. 155,981. 7 Claims. (Cl. 20—69.)



1. The combination with two relatively movable bodies of a flexible flange or bead upon one of the bodies and two contact faces upon the other body angularly arranged in relation one to the other to form a rabbet, said flexible flange being extended into the path of movement of the other movable body and flexed by its engagement therewith to cause the faces of the reëntrant angle of the rabbet to be simultaneously engaged by the same side of the flexible flange or bead upon relative movement of said bodies.

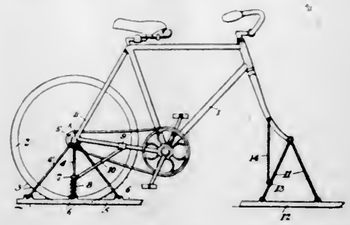
1,337,395. TREE-SAWING APPARATUS. VASILY N. DMITRIFF, New York, N. Y., assignor of forty per cent. to Rudolph Kliavin, Seattle, Wash. Filed May 21, 1919. Serial No. 298,629. 2 Claims. (Cl. 74—36.)

1. In combination, a multiple threaded screw, a helical gear engaged with said screw, a spindle on which said gear is mounted, a hingedly mounted bracket carrying said spindle, means for raising or lowering said bracket relative to its support so as to move said gear into or out of



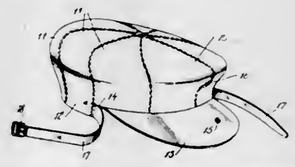
engagement with said multi threaded screw, and means for locking said bracket when in an adjusted position.

1,337,396. BICYCLE ATTACHMENT. ROBERT OTTO EISELT, Blue Earth, Minn. Filed Apr. 10, 1919. Serial No. 289,175. 1 Claim. (Cl. 208—162.)



The combination with a bicycle and its rear axle and side bar of a sled attachment comprising a runner having a central and two adjacent laterally extending apertured ears, a trident shaped frame including a bearing eye from which extends a vertically held rod and two divergent side rods, each rod being slidably held in one of said ears, said eye engaging said axle, a sleeve fixed to said side bar, a collar fixed to said vertical rod, a brace bar pivotally connecting said collar and sleeve, and a spring interposed between said collar and central ear and surrounding said central rod, whereby said runner is normally urged outward, as and in the manner shown.

1,337,397. ADJUSTABLE CAP. PHILIP A. FISCHER, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,739. 7 Claims. (Cl. 2—106.)



5. An adjustable cap, comprising a crown having the rear portion extended below the forward portion, a vizor attached to the lower edge of the forward portion and terminating on each side of the cap a short distance in advance of the front edge of the extended portion, a strap associated with the extended portion of the crown on each side of the cap and having a width substantially equal to the width of the extended portion so that the upper edge

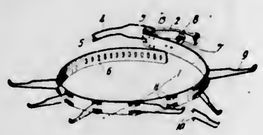
of the strap lies closely adjacent to the lower edge of the front portion of the cap between the end of the vizor and the forward edge of the extended portion, said straps being arranged to extend across the top of the vizor when the cap is in use, and means for adjustably connecting the straps together to permit the size of the cap to be altered.

1,337,398. TREE-SHAKER. LUTHER MILTON FLECKNER, San Francisco, Calif. Filed Dec. 16, 1918. Serial No. 267,087. 1 Claim. (Cl. 294—19.)



A tree shaker comprising a rod, one fixed arm and a pivoted arm at the one end thereof, a spring to hold one of the arms normally away from the other arm, a rod connected with the pivoted arm and extending toward the opposite end of the first named rod, a link to which the second rod is connected, a revoluble disk carrying an eccentric connection with said link, a handle for rotating the disk, and a stop pin to prevent the disk from being rotated in either direction more than a fixed amount, the disk pin being under the disk pivot point when the arms are brought together.

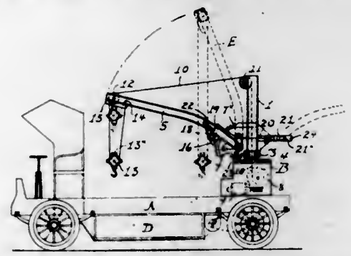
1,337,399. RACK FOR HANGING OF ARTICLES AND THE LIKE. OTTO HENRY FRANK, Brooklyn, N. Y. Filed June 4, 1917. Serial No. 172,754. 1 Claim. (Cl. 126—341.)



A device of the character described comprising a flexible strap for encircling a support, hooks carried by said strap for the purpose of supporting articles thereupon, a lever journaled upon one end of said strap and provided with an opening, a spring catch located upon said strap and provided with a portion for extending through said opening in order to hold said lever in a predetermined position relatively to said strap, and a hook carried by said lever and made of a single piece of spring wire bent back upon itself and provided with a centrally disposed reverting portion for extending into an opening adjacent the opposite end of the strap.

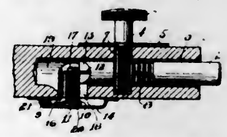
1,337,400. CRANE. THORVALD N. GARSON, New York, N. Y. Filed Sept. 20, 1918. Serial No. 254,892. 1 Claim. (Cl. 212—59.)

In a crane, the combination with a support, of a hoisting drum and driving means therefor, a boom pivotally mounted upon the support, a hoisting rope connected with the drum and led over the end of the boom, means including the hoisting rope for raising the boom, and two interengaging members, one carried by said support and



one carried by the boom, and disposed intermediate the pivotal connection of the boom and the free end of the latter, for automatically locking the boom in its elevated position whereby the boom will react upon the said interengaging members as a lever of the second class.

1,337,401. INDICATING-LOCK. JOHN HEBERLING, Rochester, N. Y. Filed May 21, 1919. Serial No. 298,683. 9 Claims. (Cl. 40—66.)

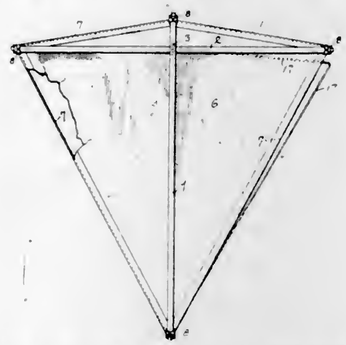


1. An indicating lock comprising a bolt, and an indicator having a connection with the bolt to move with the bolt when the latter is moved either to locking or unlocking position, said connections permitting the indicator to move away from indicating position independently of the bolt.

1,337,402. MANUFACTURE OF PURE FERRIC OXID. FRANK HEMINGWAY, Boundbrook, N. J. Filed Aug. 28, 1919. Serial No. 320,523. 5 Claims. (Cl. 134—59.)

1. A process for producing pure ferric oxid, comprising, mixing intimately together a ferrous salt and a dry alkaline substance, grinding the mixture continuously under conditions such that the iron in the mass is largely changed from the ferrous to the ferric condition, and calcining the resulting powder to the necessary temperature to produce a required shade of color.

1,337,403. KITE AND PROCESS OF MAKING SAME. HENRY B. HOLTVOIGT, Dayton, Ohio. Filed Nov. 12, 1919. Serial No. 337,506. 13 Claims. (Cl. 244—22.)



2. A kite comprising a sail, a plurality of laterally open sockets attached in spaced relation to said sail and struts laterally insertible within said sockets in a direction angular to the lineal extent of the strut.

1,337,404. MACHINE FOR BOXING SARDINE-CANS AND THE LIKE. ROBERT F. JONES, Eastport, Me., assignor to Wm. Waltke & Co., St. Louis, Mo., a Corporation of West Virginia. Filed June 9, 1915. Serial No. 33,154. 6 Claims. (Cl. 93—3.)



1. In a machine of the class described, a conveyer chain having compartments, a magazine for holding stacked collapsed cartons said magazine having a slot in the bottom thereof, a reciprocable pusher finger fitted to said slot and arranged to remove a single carton from the bottom of the stack and place it in a compartment of the conveyer chain, a pair of laterally disposed carton opening knives arranged to slip between the top and bottom of the carton, and means for placing a can in the carton and then closing the carton at each end.

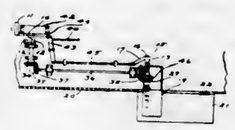
2. In a machine of the class described, a magazine for holding a stack of collapsed cartons, means for sliding a single carton from beneath the stack, means for depressing the bottom end flap of the carton, means for raising the top end flap, a carton opening knife adjacent each end of the carton arranged to slip between the top and bottom of the carton so as to open it, means for withdrawing said knives from the carton, and means for placing a can in the carton and closing the ends of the same upon said can.

3. In a machine of the class described and adapted to place cans in cartons having a bottom end flap at one end and a top end flap at the other end, a table, means for carrying the filled carton along the table with the end flaps extended, a folding plate at each end of the carton spaced therefrom by the thickness thereof and from the end flap by its thickness, and a strip immediately adjacent to but outside the folder plate for bending the outer portion of the end flap toward the carton.

4. In a machine of the class described, in combination with means for filling the carton, folding in the end lips, and folding the outer portion of the end flaps toward the carton, a trough adjacent each end of the carton said trough having two walls adapted to respectively engage the outer and the inner portions of the flaps, said trough being twisted through 90° so as to tuck the end flap into the carton.

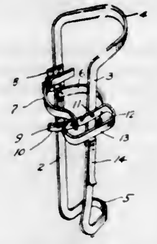
5. In a machine of the class described, a magazine holding stacked collapsed cartons, a conveyer chain having compartments, means for placing cartons successively in said compartments, a rotary can feeding table, means for simultaneously moving the conveyer chain and the can feeding table to bring a can opposite a carton, an oscillating sweeping device for pushing the can into the carton and means for thereafter closing the carton at each end.

1,337,405. AUTOMOBILE SIGNALING DEVICE. VINCENT JOHN KOVZOVICH, New Britain, Conn., assignor of one-half to James Letsky, New Britain, Conn. Filed Aug. 29, 1919. Serial No. 318,642. 3 Claims. (Cl. 116—46.)



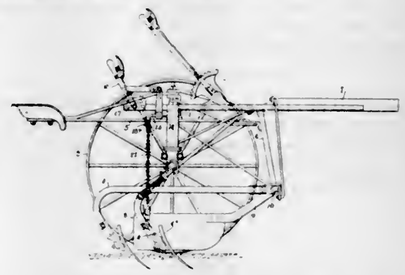
1. An automobile signaling device comprising a frame having a set of panels for individual display consisting of three panels, arranged in triangular form, means tending to position the said frame so that one of the said panels will be set to the display position, the said frame being constructed and arranged so as to be rotatable in one direction for setting a second of the said panels to such display position and in the reverse direction for setting the third of the said panels to such position, and two handle devices being provided, one for effecting rotation in the one direction and the other for effecting rotation in the said reverse direction.

1,337,406. ANTIKICKER FOR COWS. DUNCAN H. MCCUAIG, Wahkon, Minn. Filed Mar. 24, 1919. Serial No. 284,524. 2 Claims. (Cl. 119—127.)



1. An anti-kicking attachment for a cow's leg comprising a frame having loops for bearing on the front of the leg, an arm pivoted on one side of said frame to extend across the rear of the leg, a ratchet bar mounted on the other side of the frame and extending transversely of said frame and having notches in its edge to receive the edge of said arm, means for holding said arm and notched bar together, and said bar having a rearwardly turned portion spaced from said bar to allow the insertion of the cow's tail between them.

1,337,407. CULTIVATOR. WARD E. MARSHALL, near Brookville, Ohio. Filed Sept. 2, 1919. Serial No. 320,989. 6 Claims. (Cl. 97—13.)

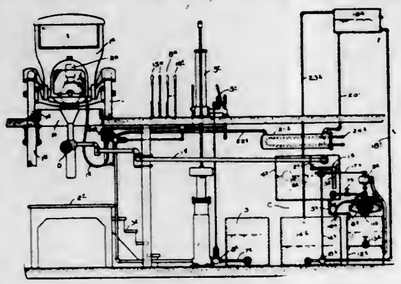


6. In a cultivator, the combination, with gangs, of fenders operable relative to said gangs, supporting brackets secured detachably to the cultivator frame and extending rearwardly thereof, an operable member supported in said brackets and extending transversely of the cultivator and having a plurality of rearwardly extending arms adjustably supported thereon, and connections between the fenders and the arms and an operating element, whereby the fenders may be simultaneously adjusted relative to said gangs.

1,337,408. LUBRICANT CLEANING AND REPLENISHING SYSTEM FOR AUTOMOBILES. WILLIAM L. MORRIS, Chicago, Ill. Filed Sept. 7, 1916. Serial No. 118,850. 55 Claims. (Cl. 184—1.)

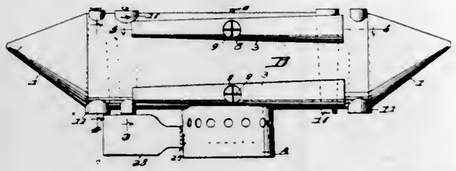
4. An automobile cleaning and replenishing system comprising means for receiving used lubricant from the

automobile lubricant cases, apparatus for clarifying said used lubricant, circulating means to return the clarified



lubricant to said cases for cleaning them and discharging into said means, and replenishing means for delivering a predetermined quantity of new lubricant to each of said cases.

1,337,409. AIRSHIP. GEORGE F. OCHS, Newark, N. J. Filed Jan. 27, 1919. Serial No. 273,388. 2 Claims. (Cl. 244—10.)



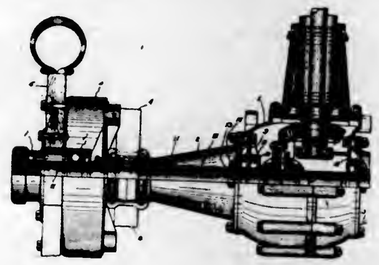
1. In an airship, a buoyant chamber, a plurality of tubular members mounted on the buoyant chamber, the said tubular members being of tapering shape, a rotatable shaft mounted in each tubular member adjacent its larger end, a propeller carried by each shaft at one end, a driving-motor exterior to the tubular member and carried thereby and operatively connected to the propeller shaft therein, and a centralized control for said motors whereby the propellers in certain tubular members may be operated for the purpose specified.

1,337,410. APPARATUS FOR DETERMINING THE SPECIFIC GRAVITY OF DOUGHS, PASTES, AND THE LIKE. LOUIS CHARLES REESE, Saginaw, Mich. Filed Aug. 29, 1919. Serial No. 320,736. 3 Claims. (Cl. 226—77.)



1. An apparatus for the purpose described, comprising a cylindrical, measuring flask open at its bottom end and provided with a narrow, open neck, a bottom-plate adapted to be tightly connected to and to close the open bottom end of the said flask, a cylindrical sampling tube having the same inner diameter as the cylindrical part of the latter, means for holding the said sampling tube in a position coaxial to the said flask, a plunger fitting in the sampling tube and adapted to force the material contained in the latter into the said flask, a knife arranged to slip between the said sampling tube and the flask closely to the bottom of the latter for separating the mass in the said flask from that left in the said sampling tube and for closing at the same time the open bottom end of the former, and means for causing the bottom plate of the said flask to follow the said knife in exactly the same plane into a position ready to be connected to the said flask.

1,337,411. REAR-AXLE CONSTRUCTION. FRANÇOIS RICHARD, Cleveland, Ohio, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Filed Jan. 15, 1917. Serial No. 142,479. 4 Claims. (Cl. 74—99.)



1. A rear axle construction comprising a housing, driving means therein, a roller bearing at one end thereof, a bracket carried therein near said driving means and provided with a socket, another roller bearing carried by said bracket, an axle operatively connected with said driving means and mounted in said bearings, and a sleeve additionally supporting said first mentioned bearing and fitted in said socket whereby to stiffen said bearings in relation to the whole.

1,337,412. PENCIL AND CASE. GEORGE A. RISK, Brooklyn, N. Y. Filed May 29, 1919. Serial No. 300,628. 2 Claims. (Cl. 120—21.)



1. A casing having a tapered point and terminating in a relatively small sleeve having diametrically opposite slots, the materials displaced by the slots being laterally bent inwardly, a clutch element comprising parallel spring arms having clutch elements projecting toward each other at their ends, and adapted to close when the parallel spring arms are thrust into the said sleeve, the said flanges being engageable with the clutch element to prevent turning of the clutch element in the end of the casing.

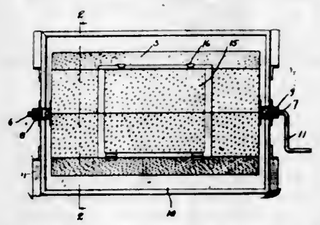
1,337,413. GAS-STOVE. NICHOLAS SCHMITT, Brooklyn, N. Y. Filed May 6, 1919. Serial No. 295,095. 4 Claims. (Cl. 126—53.)

2. A water heater comprising a pair of parallel rectangular boxes, means connecting the same at one end to permit circulation of water from one box to the other, the adjacent faces of said boxes being formed with semi-circular



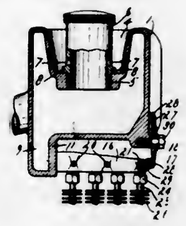
depressed portion to encircle the burners of a gas range, and means for supporting said boxes upon the range.

1,337,414. VEGETABLE-PEELER. ERNEST J. STANSON, Antigo, Wis. Filed Jan. 15, 1917. Serial No. 142,340. 3 Claims. (Cl. 146—14.)



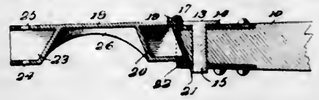
1. A potato peeler comprising a tank, a horizontally disposed hollow polygonal shaped drum journaled in said tank and provided with a plurality of inwardly extending sets of flat edge blades and pointed edge blades, means for permitting access to the drum, and means for turning the drum.

1,337,415. RADIATOR. GEORGE J. THOMAS, Lansing, Mich., assignor to Duplex Truck Company, Lansing, Mich. Filed June 27, 1917. Serial No. 177,249. 2 Claims. (Cl. 257—129.)



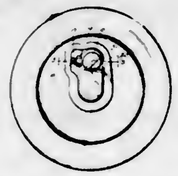
2. In a radiator, the combination of an upper tank having a downwardly offset channel on its under side and a lower tank having an upwardly offset channel on its upper side, said channels being disposed at the rear of the tanks and having manifold openings in their front walls, a plurality of radiator sections each comprising upper and lower headers, each header consisting of a pair of integral manifolds having shouldered open inner ends disposed in the manifold openings of said tanks and a plurality of laterally projecting opposed apertured bosses, radiator tubes disposed with their ends in said apertured bosses of said headers, and packing glands provided with gaskets threaded upon said bosses whereby said tubes are retained and supported.

1,337,416. BOLSTER EXTENSION. JAMES N. TREE, Detroit, Minn. Filed Dec. 10, 1918. Serial No. 266,078. 3 Claims. (Cl. 280—144.)



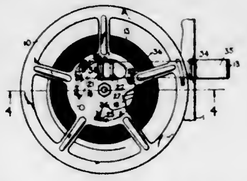
2. A detachable extension for bolsters including a plate equipped with a stud for engagement with the bolster, and a body hinged to said plate and adapted to lie end to end with the bolster, when in an operative position, whereby the bolster will sustain said body against undue movement.

1,337,417. INTERNAL-COMBUSTION ENGINE. LEE L. TURNEY, Evansville, Ind. Filed Feb. 21, 1919. Serial No. 278,420. 4 Claims. (Cl. 74—6.)



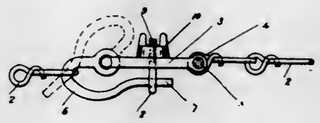
2. An internal combustion engine comprising a crank casing, a crank shaft journaled in said crank casing, a fly wheel mounted on said shaft and disposed immediately adjacent one of the cheeks of the crank forming a part of said crank shaft, said fly wheel comprising abutment portions lying adjacent opposite edges of said crank cheek and embracing said crank cheek between them, together with an adjustable screw threaded into one edge of said crank cheek, said screw arranged to bear against one of said abutments and to hold the opposite edge of the crank cheek against the other abutment.

1,337,418. REEL CONSTRUCTION AND METHOD OF HANDLING WEBS. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Sept. 30, 1916. Serial No. 122,974. 9 Claims. (Cl. 88—18.7.)



1. In apparatus of the class described, in combination, a disk, a hub mounted thereon, a second disk co-axial with the first, means for positively unwinding a film therefrom from its inner turn, and means for reducing the diameter of the hub prior to the unwinding operation.

1,337,419. CHAIN-LOCK. ALBERT I. VARNEY, New Hampton, N. H. Filed Dec. 27, 1919. Serial No. 347,648. 1 Claim. (Cl. 24—69.)

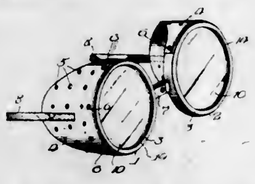


A chain lock, comprising a shackle or clevis having its double-eye pivoted to one end portion of a chain, a hook pivoted on the loop of the shackle or clevis and having a straight end portion which projects longitudinally of the loop, an eye-bolt slidable on the said end portion of the hook with its stem projecting through the loop, and a clamping nut screwed on the stem of the eye-bolt.

1,337,420. GOGGLES. FRANK E. WEEKS, Chicago, Ill., assignor to Andrew Ringman, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,400. 4 Claims. (Cl. 2—149.)

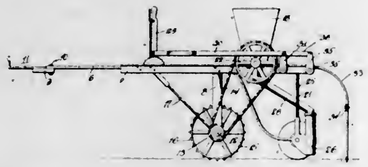
1. In a pair of goggles, an annular frame formed with a lens seat comprising an inner annular shoulder portion and an annular edge portion, and an aunular tapered

face extending to the front of the frame, a lens seated on said shoulder portion of the seat with its edge in contact



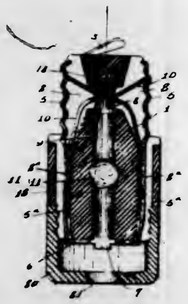
with annular edge portions of the seat, and a split ring bearing against said annular tapered face and against the outer face of the lens.

1,337,421. ATTACHMENT FOR PLOWS. HENRY C. WERMAGER, Emerson, N. D. Filed Sept. 18, 1916. Serial No. 120,794. 1 Claim. (Cl. 221—130.)



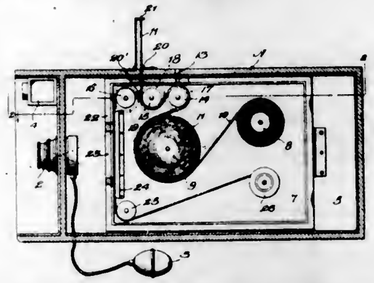
A device of the character described comprising a frame having a hopper mounted thereon, a rotatable hollow tubular member mounted in the bottom of the hopper and provided with a plurality of longitudinally spaced apertures, the said tubular member having its ends provided with projections journaled in the frame to rotatably support the said tubular member, one of the said projections having a driving element to impart rotary movement to the tubular member, and discharge members connected to the bottom of the hopper and adapted to register with the said openings in the tubular member when the latter is rotated.

1,337,422. ELECTRIC PLUG. ELI D. WHELPLEY and WILLIAM E. WINTERS, Oneida, N. Y. Filed Apr. 15, 1918. Serial No. 228,578. 6 Claims. (Cl. 173—360.)



5. In an electric plug, a body of insulation having a lengthwise passage terminating short of the outer end of the body, central and outer terminals mounted on the body of insulation, the outer terminal being expansible and contractile, a wedge extending lengthwise of the body for expanding and permitting contraction of the outer terminal, means for moving the wedge lengthwise of the body in one direction, and a spring inserted between the end of the wedge and the other end of said passage for moving the wedge in the other direction, substantially as and for the purpose described.

1,337,423. METHOD OF AND APPARATUS FOR IDENTIFYING PICTURES. THOMAS CARROLL WILLSON, Philadelphia, Pa. Filed Aug. 12, 1918. Serial No. 249,592. 4 Claims. (Cl. 95—1.1.)



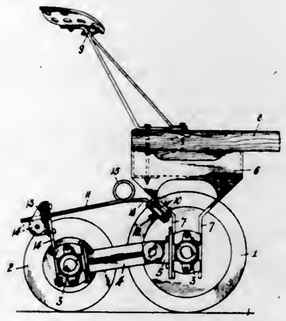
1. The process of taking and identifying pictures which comprises arranging a film and a ticket having transparent indicating characters thereon within a camera having a light opening, passing said film and ticket beneath the light opening to light-print said indicating characters on to said film, ejecting said ticket from the camera and exposing said film to photograph the desired object.

1,337,424. NUT-LOCK. JOHN B. WORD, Latrobe, Calif., assignor of one-third to William A. Reckers and one-third to Charles M. Sumner, Placerville, Calif. Filed Oct. 7, 1919. Serial No. 329,009. 2 Claims. (Cl. 151—21.)



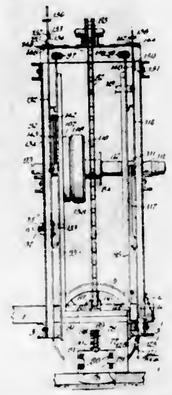
1. In a nut-lock, a nut a section of the threaded bore of which is raised from the nut face on an incline, said section being severed from the nut at one extremity by a cut perpendicular to the nut face and at its back by a cut inclining inwardly to the bore, and said section being integral with the nut at its other extremity, whereby the section by pressure contact with a fixed abutment on a bolt will be turned on its integral extremity downwardly and inwardly to bind its threads in the threads of the bolt.

1,337,425. TANDEM SOIL PULVERIZER AND PACKER. HAROLD C. BABCOCK and JAMES H. MCCREARY, Bowling Green, Ohio, assignors to The Thornburgh Manufacturing Company, Bowling Green, Ohio, a Corporation of Ohio. Filed Nov. 3, 1919. Serial No. 335,519. 3 Claims. (Cl. 55—77.)



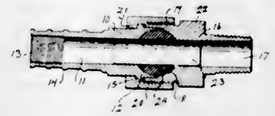
1. The combination with a machine of the class described having a plurality of gangs of packing or pulverizing units connected in tandem for relative vertical movements, and a frame carried by and mounted over one of said units, of a bar form of spring connecting said frame and the other unit to exert a downward pressure on the latter and adjustable to vary such pressure.

1,337,426. ASPHALT-CUTTER. FRANK V. E. BARDOL, Buffalo, N. Y. Filed July 20, 1917. Serial No. 181,869. 17 Claims. (Cl. 37—50.)



5. An asphalt cutter comprising a carriage having a frame, an upright track pivotally connected at its upper end with said frame and capable of moving laterally at its lower end, a hammer movable vertically on said track, and a knife mounted on said hammer.

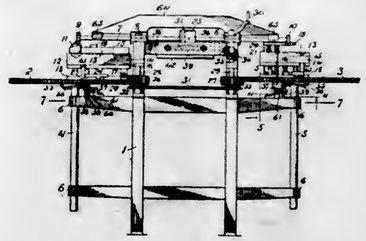
1,337,427. PIPE AND HOSE COUPLING. JOHN BEACH, Springfield, Ohio, assignor of one-half to P. F. Golden, Springfield, Ohio. Filed Dec. 18, 1918. Serial No. 267,295. 2 Claims. (Cl. 285—167.)



1. A coupling of the character described including male and female sections having bores of uniform diameter, a hemispherical socket in the end of the male section, a hemispherical socket in the female section adjacent its end, the end of said female section being reduced to provide an internal shoulder, an annular flange on the male section, a collar having a flange engaged with one side of the annular flange of the male section and connecting the female section to the male section, the end of the female section lying closely adjacent the other side of the annular flange, the end of the male section lying closely adjacent the internal shoulder of the female section to cooperate with the hemispherical socket of the female section to provide a spherical socket, means for preventing rotation of said male and female sections with respect to each other, and packing means disposed in said spherical socket.

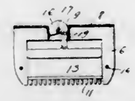
1,337,428. SCROLL-CUTTING MACHINE. JOSEPH H. BEHEE, Leavenworth, Kans. Filed Aug. 19, 1918. Serial No. 250,568. 24 Claims. (Cl. 144—143.)

1. In a scroll cutting machine, a tool supporting member, a work supporting member, means for rotating the work supporting member and for simultaneously moving the other member at a diminishing rate of speed transversely to the axis of the rotatable member, and means



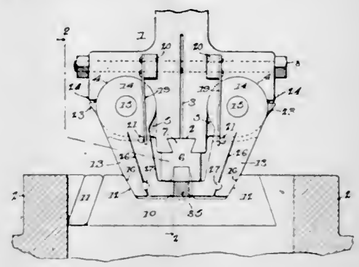
for moving one of said members parallel with the axis of the rotatable member simultaneously with the rotation of the latter.

1,337,429. HAIR-CUTTER. LEWIS J. BERGENDAHL, Vallejo, Calif. Filed Apr. 24, 1919. Serial No. 292,445. 4 Claims. (Cl. 30—12.)



1. A hair cutter comprising a guard having comb teeth, a cutting element adjustably mounted upon said guard, a member pivoted to said guard, and a link pivotally connecting said cutting element and said pivoted member for adjusting said cutting element with relation to the comb teeth.

1,337,430. FORGING-MACHINE. LAURENCE J. BERKELEY, Racine, Wis., assignor to Hercules Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed June 24, 1918. Serial No. 241,503. 6 Claims. (Cl. 10—61.)

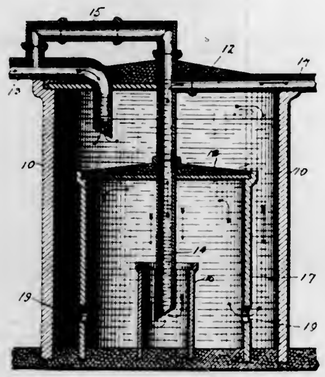


1. In a forging machine the combination of two dies one of which is movable toward and from the other and one of which has inclines converging away from the other, and two laterally opening and closing jaws pivotally connected with one of the dies and having inclines coöperating with the inclines of the other die to simultaneously close the jaws when the dies are brought together.

1,337,431. APPARATUS FOR SEWAGE DISPOSAL. LOUIS PERKINS BERRY, Jr., Marion, Ark. Filed Nov. 16, 1918. Serial No. 262,806. 3 Claims. (Cl. 210—18.)

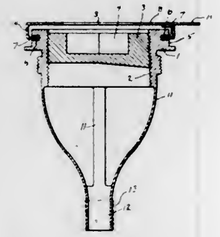
1. The combination of a tank having a sewage inlet and a water outlet, and a chamber within such tank hav-

ing a closed top below the normal liquid level maintained by such outlet, said chamber communicating with the



tank at or near its bottom, and also communicating with said outlet.

1,337,432. GREASE-CUP. LEON N. BOURDEAU, Rock Island, Ill., assignor of one-half to John G. Sorenson, Davenport, Iowa. Filed Feb. 7, 1919. Serial No. 275,484. 3 Claims. (Cl. 184—48.)

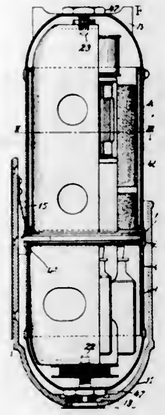


3. In combination with a grease-cup bushing, provided with catch-engaging means on opposite sides of its head, and a plug adjustably held in said bushing, and provided on its outer face with tool-engaging means; a spring-controlled flexible plate provided with a central opening permitting access to said plug; catches on the ends of said plate adapted to coöperate with said catch-engaging means, to hold said plate removably in position on said bushing; and a handle on said plate for the operation thereof.

1,337,433. FIRST-AID KIT. CHARLES A. BREWER, Noroton Heights, Conn., assignor to Adjuria Incorporated, a Corporation of Delaware. Filed July 2, 1919. Serial No. 308,225. 17 Claims. (Cl. 206—12.)

8. A container formed of two cup-shaped vessels disposed when assembled with their open faces opposite each other, a tray inclosed in said cups and provided with a dividing diaphragm situated between the edges of the cups when assembled, and means upon each end of the tray structure for locking the cups together and against the diaphragm.

13. A container provided with a centrally disposed locking tray, a sleeve for retaining first-aid units in posi-



tion, said sleeve having outwardly flaring flanges at each edge providing thereby means for protecting printed lists of contents and first aid directions.

1,337,434. CLOTHESPIN. BERTHA A. BRIDGES, Leesville, S. C. Filed Aug. 5, 1918. Serial No. 248,372. 1 Claim. (Cl. 24—139.)



The herein described clothes pin comprising a pair of wire loops of different size rigidly connected at one side to lie normally in parallel planes, one loop at its free side formed with a stop shoulder standing in a plane transverse to this loop and projecting toward the other loop and with a hump adjacent said shoulder and coacting therewith to hold a clothes line, as set forth.

1,337,435. SAFETY-RAZOR. ROBERT E. BROWN, Olean, N. Y. Filed Aug. 14, 1919. Serial No. 317,554. 5 Claims. (Cl 30—12)

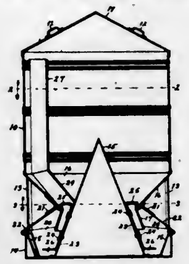


2. In a safety razor, a handle, a head carried thereby and comprising a relatively fixed clamping jaw and a back connected therewith and spaced opposite the same, a jaw member fulcrumed upon the back and confronting the fixed jaw, and means for closing the said fulcrumed jaw member.

1,337,436. SELF-FEEDER. ARCHIE CARROLL BUTH, Alleman, Iowa. Filed June 2, 1919. Serial No. 301,149. 8 Claims. (Cl. 119—54.)

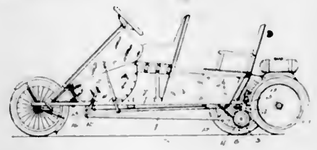
1. In an automatic feeding device having an annular pan, a cone centrally located on and rising from said pan and a superposed receptacle having a hopper bottom co-

acting with and spaced from the cone, the combination with said pan of a false bottom contained therein and having a frusto-conical outer wall, radial partitions subdi-



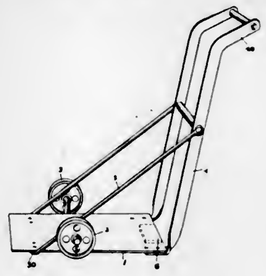
viding the space within said false bottom, and segmental doors hinged to said hopper bottom and overlapping the walls of the pan and false bottom.

1,337,437. VEHICLE. HENRY L. CALL, St. Louis, Mo. Filed Dec. 23, 1918. Serial No. 268,019. 5 Claims. (Cl. 180—11.)



1. In a motor wheel propelled vehicle, a reversing mechanism consisting of revoluble means adapted to engage said propelling motor wheel when latter is lifted clear of roadbed, and propel vehicle in a reverse or backward direction.

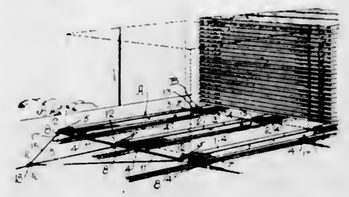
1,337,438. BOX OR CASE TRUCK. CARL K. CARLSON, Everett, Wash. Filed Jan. 23, 1919. Serial No. 272,797. 1 Claim. (Cl. 280—49.)



A truck for handling boxes, crates and like packages, comprising a floor plate, a drop axle secured to said plate forward of its center and wheels on said axle for supporting the plate slightly above a floor, a block secured beneath the floor plate rearward of its center, arms extending upward from the rear corners of the floor plate and turned rearwardly at their upper ends, cross bars connecting the arms at an intermediate point and at their ends and braces connecting said arms with the forward end of the floor plate at the side edges thereof.

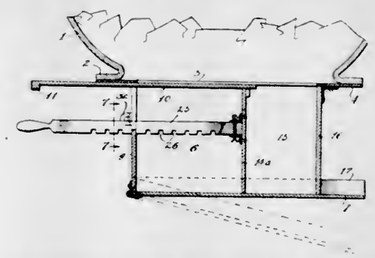
1,337,439. DRY-KILN TRUCK FOR EMPTYING AND REFILLING DRY-KILNS. LEE E. CARTER, St. Maries, Idaho. Filed Nov. 1, 1919. Serial No. 335,220. 10 Claims (Cl. 105—160.5.)

1. In a lumber supporting truck for kilns, the combination with a plurality of trucks, each truck comprising a plurality of truck beams, means for connecting the truck beams of both trucks endwise, supporting wheels for the truck beams, spacing members detachably connected to



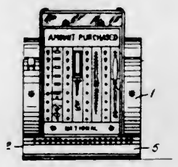
certain of the ends of the truck beams for spacing the truck beams, and means connected to certain of the ends of the truck beams for drawing the truck into and out of the kiln.

1,337,440. DISPENSING DEVICE FOR NUT-MEATS. JOHN H. CLAPPISON, Detroit, Mich. Filed Oct. 17, 1919. Serial No. 331,360. 6 Claims. (Cl. 221—111.)



1. A dispensing apparatus comprising a container open at the top and bottom and a dispensing device secured to the bottom consisting of an apertured plate and box like member the perimeter of which is equal to the perimeter of the aperture, an adjustable dividing wall in the box separating the same into compartments and a slide between the box and plate for closing the aperture adapted to be manually operated and limited in its extent of opening movement by the dividing wall, and a spring-restrained cover member at the bottom providing a means for holding the material in the box during the filling thereof.

1,337,441. CASH-REGISTER. LOUIS EDGAR CLEMENT, Rock Island, Quebec, Canada. Filed Feb. 11, 1919. Serial No. 276,428. 17 Claims. (Cl. 235—22.)

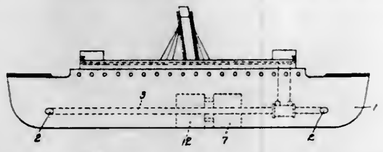


13. In a cash register, the combination of a drawer; a lock for holding it against movement; a set of denominational keys; and a slide operable upon the actuation of any one of said keys for releasing said lock to permit movement of the drawer.

1,337,442. MEANS FOR PROPELLING AND STEERING SHIPS. CANAAN DE CAZEN, Montreal, Quebec, Canada. Filed Dec. 13, 1918. Serial No. 266,602. 2 Claims. (Cl. 115—12.)

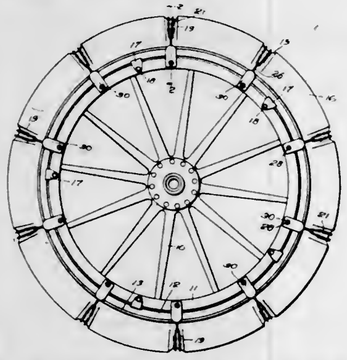
1. A boat provided with propelling and steering mechanism which consists solely of a pair of pipes disposed

symmetrically of the boat at opposite sides of and in spaced, parallel relation to its longitudinal axis; said pipes extending uninterruptedly from stem to stern of the boat, and each of them opening at its opposite ends through the hull of the boat below the water line at stem and stern; a cross-pipe connecting the longitudinal pipes intermediate



their ends; and means for forcing fluid under pressure through the cross-pipe into and through either or both longitudinal pipes alternatively and in either direction into the sea in jet form, so as to both steer and propel the boat solely by the direct action of such fluid against the water.

1,337,443. RESILIENT TIRE. DEMETREOS J. DEMAS, Pittsburgh, Pa. Filed Feb. 21, 1919. Serial No. 278,392. 2 Claims. (Cl. 152—14.)



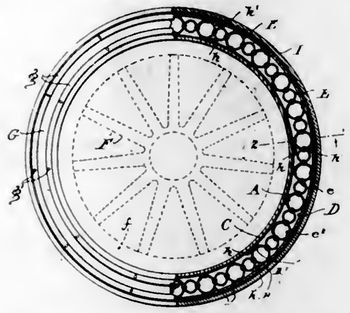
1. The combination with a tire provided with an internal armor and having a plurality of spaced transverse recesses formed in its tread portion, said recesses having their bottoms disposed adjacent the internal armor, transverse anti-skidding chains arranged within the recesses and engaging said armor, and means for retaining the chains within the recesses.

1,337,444. GUN. HARRY A. DOUGLAS, Bronson, Mich. Filed Oct. 24, 1917. Serial No. 198,340. 8 Claims. (Cl. 42—3.)



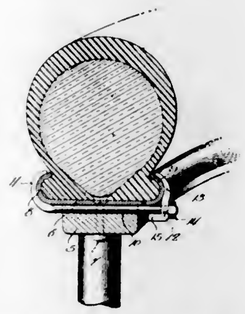
1. A gun having a barrel movable longitudinally of the gun and a spring for moving the barrel rearwardly to move the gun charge in the gun barrel against the firing abutment of the gun to explode the charge; in combination with a magazine for the gun charges and a core in the barrel and along which core the barrel is movable, said barrel having an opening in its side that communicates with the bore of the barrel and which opening, in the rear position of the barrel, is separated by said core from the bore of the barrel and which opening is then in communication with said magazine to permit the gun charge to pass from the magazine into said opening and into engagement with said core, this core being to the rear of said opening when the barrel is in its forward position to permit of the transfer of the gun charge from said opening to the bore of the barrel.

1,337,445. SPRING-TIRE FOR VEHICLE-WHEELS. CHARLES DRABEK, Cleveland, Ohio, assignor to The Drabek Equalizer Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 3, 1917. Serial No. 140,368. 15 Claims. (Cl. 152—32.)



1. A spring tire embodying an inner annular member adapted to be positioned over the felly of a vehicle wheel, and a larger outer annular member in combination with two series of springs of different sizes postioned between said inner and outer annular members, the larger springs serving to normally maintain the annular members in spaced concentric relation, and the smaller springs alternating with the larger springs, whereby a small spring is positioned intermediate each two large springs, some of said larger springs being attached to the inner annular member and unattached to the outer annular member and others of said larger springs being attached to the outer annular member and unattached to the inner annular member.

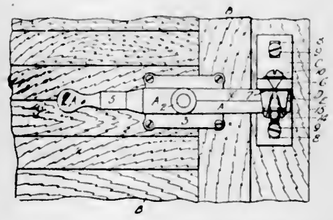
1,337,446. SECTIONAL WHEEL-RIM. MICHAEL A. ENDRES and LAWRENCE M. ENDRES, Cross Plains, Wis. Filed May 1, 1919. Serial No. 294,119. 1 Claim. (Cl. 152—21.)



In combination, a felly, a tire holding rim comprising a major section having an annular axially positioned portion secured to the periphery of the felly and an outwardly radially projecting tire retaining flange formed on one edge of the annular portion, the other edge of the latter being plain, and a minor section having one plain edge for abutting engagement with the last mentioned edge of the major section and including an outwardly radially projecting tire retaining flange, a plurality of rim retaining devices, one comprising a bolt extending through the felly transversely thereof and substantially parallel and in close proximity to the annular portion of said major section, a later-

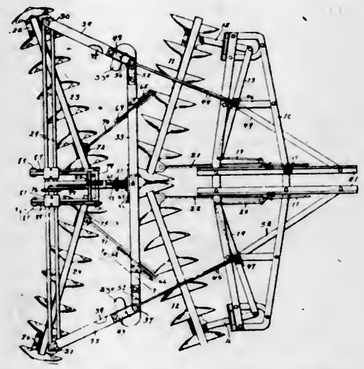
ally projecting head on one end of said bolt engageable with the first mentioned tire retaining flange, a follower slidable on the other end of the bolt, said follower consisting of a right angular member, one arm being longer than the other for engagement with the second mentioned tire retaining flange, said long arm having a transverse bolt receiving opening disposed at the junction of the two arms and having its axis extended in the direction of the short arm, said short arm being engageable with the bolt, and means on the bolt for moving the follower longitudinally of the latter and the long arm into engagement with the second mentioned tire retaining flange.

1,337,447. DOOR-LATCH. WILLIAM A. FREEMAN, Hamilton, Ontario, Canada. Filed Feb. 27, 1919. Serial No. 279,476. 2 Claims. (Cl. 292—228.)



1. In a device of the class described, the combination with a shaft journaled in the door, of a handle rigid with said shaft on one side of the door, a spring secured to the handle and to the door, a lever rigid with said shaft on the other side of the door, a keeper rigid with the door sash, a roller having bearing in the keeper, the said lever expanding laterally to a blunt edge paralleling the longitudinal horizontal center thereof, said edge adapted to fall at a point beyond the horizontal center line of the roller and to self tensionally engage the same when the lever is in normal position.

1,337,448. TANDEM DISK HARROW. FRANK H. FRENCH, Preston, Iowa. Filed Aug. 18, 1919. Serial No. 318,147. 13 Claims. (Cl. 55—83.)



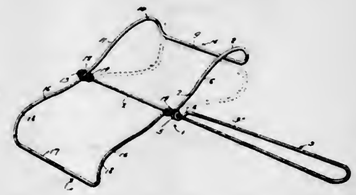
1. In a trailer disk harrow, a cross frame member, disk gangs pivoted at their outer end portions to end portions of said frame member, an evener bar arranged parallel with and in front of said frame member, a tongue connected with the center of the frame member and pivoted to the center of said evener bar, draft links pivotally connecting end portions of the frame member and evener bar, set levers pivoted on said evener bar, and links connected with said set levers and pivotally connected to inner end portions of the respective disk gangs.

1,337,449. KNOCKDOWN CABINET FOR AUTOMOBILES. FREDRIC O. GRAF, San Francisco, Calif. Filed Apr. 16, 1919. Serial No. 290,603. 8 Claims. (Cl. 190—12.)



1. A device of the character described comprising individual, front and back sections; a bottom section having upstanding end members and grooved on the inner sides thereof to receive said front and back sections; a top section with depending side members thereon and grooved on the inner faces thereof, adapted to slidably engage the front and back sections.

1,337,450. PLATE-LIFTING DEVICE. VELMA C. GRAVES, Yakima, Wash. Filed Aug. 8, 1919. Serial No. 316,133. 1 Claim. (Cl. 294—30.)



A lifter of the class described composed of two strands of heavy wire, one of which is rectilinear throughout the greater portion of its length to form a single strand body and one member of a handle loop, said member and body being in longitudinal alinement, said strand being bent at the outer end of said handle member and extended inwardly and spaced laterally from the first mentioned handle member to form the other handle member, said strand being wrapped around the inner end of the first mentioned handle member and bent to form a laterally extending U-shaped jaw at one side of said body, the legs of said jaw being bowed outwardly adjacent the cross-bar of the jaw, the front leg of said jaw having an eye encircling the front end of said body; the other strand being in the form of a U-shaped jaw having eyes at free ends of its legs hingedly engaged with said body adjacent the inner sides of the legs of the other jaw, and its legs bowed outwardly adjacent its cross-bar.

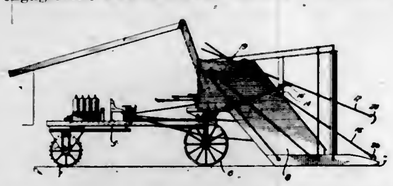
1,337,451. EXPLOSIVE. JEAN A. HARDEL, Paris, France. Filed Feb. 4, 1919. Serial No. 275,008. 8 Claims. (Cl. 52—3.)

3. As an element of an explosive mixture, a normally liquid nitro hydrocarbon derivative approximately saturated with a normally solid hydrocarbon nitro-derivative.

1,337,452. GATHERING APPARATUS. ELMER F. HARRISON, Arthur, Ill. Filed Apr. 21, 1916. Serial No. 92,725. 1 Claim. (Cl. 56—27.)

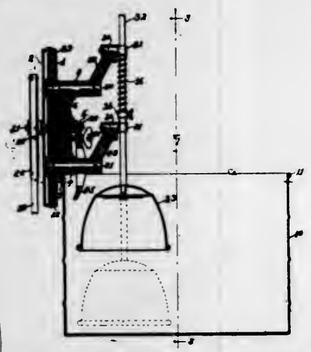
In a device of the class described, the combination of an endless conveyer, means for driving said conveyer; of a crank shaft having a crank, a rake comprising a plurality of teeth and having a bar connected to said crank, rigid means for slidably supporting said bar, a fork having a plurality of tines extending above the forward portion

of the conveyer and then gradually slanted downwardly into engagement with the road of travel, said crank being



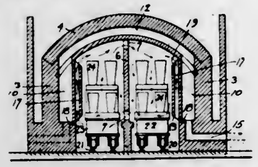
of sufficient length so as to cause the rake to move along the fork so that the teeth of the rake will pass between the tines of the fork and then upwardly over the forward portion of the conveyer for moving elements from the fork onto the conveyer.

1,337,453. WASHING-MACHINE. JAMES B. KIRBY, Cleveland, Ohio. Filed Oct. 7, 1918. Serial No. 257,109. 8 Claims. (Cl. 259—141.)



1. In a device of the character described, a casing, a pair of parallel bearing sleeves carried by said casing, means for securing said casing upon a tub in upright position with said sleeves substantially horizontal, a shaft in each sleeve, equal sized gears carried by said shafts inside said casing, an idler gear journaled in said casing and meshing with both gears, means for driving one of said gears, cranks carried by said shafts and projecting therefrom in equal phase, a single connecting rod connected to both cranks, and a pounder carried by said rod.

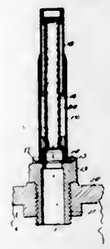
1,337,454. HEAT-TREATING FURNACE. CHARLES J. KIRK, New Castle, Pa. Filed June 5, 1919. Serial No. 301,975. 3 Claims. (Cl. 25—142.)



3. In a heat treating furnace having a heating chamber, heating flues formed in said walls of said furnace, a longitudinal partition wall dividing said chamber into two compartments, said partition having openings at its upper and lower portion, hollow tiles forming the inner wall of said heating flues to the side walls of said heating chamber, said tiles having beveled upper ends and communicating top and bottom with said heating chamber.

1,337,455. COMPRESSION-TESTER. LEO M. KNAPP, Wellsville, N. Y. Filed Mar. 1, 1919. Serial No. 280,075. 1 Claim. (Cl. 73—111.)

A compression tester comprising a plug having a longitudinal explosion passage extending therethrough, and having an exterior portion threaded, a hexagonal enlargement at one end thereof, an annular radial flange at the termination of said enlarged portion and interiorly thereof, a semicircular flange formed on the end face of said hexagonal portion having its walls undercut or reset concentrically relative to the explosion opening of the plug, and a gage comprising a stationary element and a



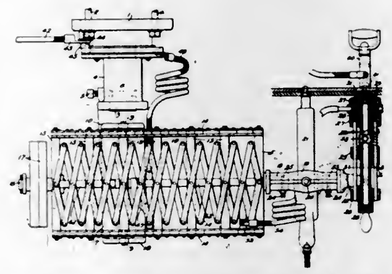
movable element, and an annular flange on one end of said stationary element adapted to be inserted within the undercut portion of the semicircular flange, the latter serving to engage the semi-circular flange to secure the gage in place and to aline the center of the gage with the center of the explosion opening of the plug for the purpose set forth.

1,337,456. MECHANICAL INTERRUPTER FOR ELECTRIC IGNITION SYSTEMS. ADOLF KRAUSS, Cannstatt, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1918. Serial No. 219,735. 6 Claims. (Cl. 200—30.)



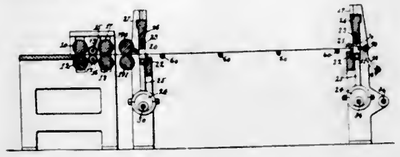
3. In a mechanical interrupter for electric ignition systems, an interrupter contact, a deflectable interrupter lever coöperative therewith, a spring having its ends fastened to the deflectable lever, and bearing and clamping members gripping the spring intermediate its ends at two separated places to form a free spring section therebetween, one of said members having a cut-away portion intermediate its gripping places.

1,337,457. APPARATUS FOR RIVET-SETTING AND SIMILAR OPERATIONS. SIMON LAKE, Milford, Conn. Filed Dec. 5, 1919. Serial No. 342,694. 23 Claims. (Cl. 219—2.)



1. In an apparatus for rivet-setting and the like, a heating element, a pressure-applying element, and an extensible swiveling support for these elements whereby they may be brought into and supported in operative relation to the work.

1,337,458. METHOD OF AND APPARATUS FOR TREATING METAL SHEETS. HENRY W. LAMB, Brookline, Mass. Filed Apr. 15, 1919. Serial No. 290,249. 6 Claims. (Cl. 164—62.)



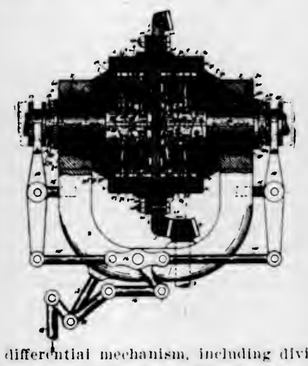
3. In an apparatus for treating metal sheets, rotary cutters to cut the metal sheet longitudinally at its opposite sides, feed rolls to feed the metal sheet to the rotary cutters, a plurality of sets of cutters arranged transversely of the path of movement of the metal sheet to simultaneously cut the latter near its opposite ends, a device to arrest the longitudinal movement of the metal sheet and position it with relation to the transverse cutters, a table to support the metal sheet while it is being cut by said transverse cutters, a plurality of pairs of feed rolls between said rotary cutters and said transverse cutters, and means for operating said transverse cutters controlled by said device.

1,337,459. VIOLIN-SUPPORT. ALFRED LAPPALAINEN, Vancouver, British Columbia, Canada. Filed June 3, 1919. Serial No. 301,500. 5 Claims. (Cl. 84—115.)



1. A violin support comprising a light frame bent substantially in the shape of a U to pass around the neck of the player, with the leg remote from the violin bent downwardly to rest against the front of the player's shoulder and breast, and means for securing the violin to the frame.

1,337,460. GEARLESS DIFFERENTIAL. CHARLES LAVIER, Syracuse, N. Y. Filed Nov. 6, 1919. Serial No. 335,989. 13 Claims. (Cl. 74—7.)



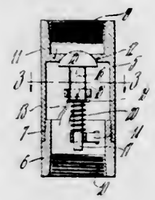
4. A differential mechanism, including divided axles, a casing rotatable in opposite directions by the motive power of a vehicle, sleeves journaled in the opposite ends of the casing and supporting and driving said axles, internal ratchet gears rigid in said casing and encircling said sleeves adapted to drive said sleeves and said axles in opposite directions, radially movable dogs carried by each sleeve adapted to alternately connect the corresponding ratchet gears with said sleeve, means for shifting said dogs for effecting the driving of the vehicle in the same direction as said casing, and means for allowing one axle and its sleeve to rotate faster than said casing.

1,337,461. SASH-OPERATING MECHANISM. ALBERT MCALLISTER, Pittsburgh, Pa., assignor to Aspromet Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1918. Serial No. 264,427. 2 Claims. (Cl. 268—17.)



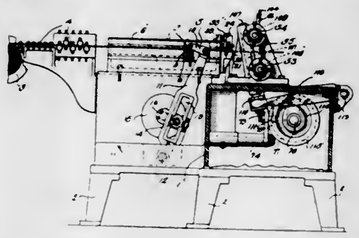
1. The combination with a movable sash, of an operating mechanism therefor comprising a longitudinally movable actuating device, a pair of end toggle levers connected with said actuating device, a pair of end toggle levers connected with said sash, and a pair of materially longer scissors levers intermediate said end toggle levers and operatively connected therewith.

1,337,462. VALVE. ERNESTO C. MARULLI, Holyoke, Mass. Filed Oct. 3, 1919. Serial No. 328,201. 4 Claims. (Cl. 251—144.)



1. A valve, comprising, two casing members removably secured together in axial alinement, a valve seat provided in one of said members, valve stem guides all provided in the other member, a valve to engage said seat and having its stem mounted in said guides, and means to yieldingly hold the valve to its seat.

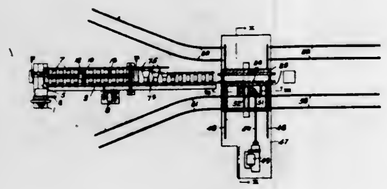
1,337,463. MACHINE FOR FORMING ARMATURE-COILS. FREDERICK C. NICKOL and CLARENCE H. KNOWLES, Dayton, Ohio, assignors to City Machine and Tool Works, a Copartnership consisting of Frederick C. Nickol and Oscar M. Poock, Dayton, Ohio. Filed Dec. 17, 1917. Serial No. 207,436. 62 Claims. (Cl. 153—6.)



1. In a mechanism of the character described, bending devices to bend a bar of metal into a substantially U-

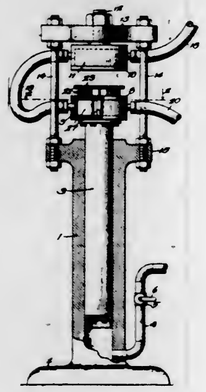
shape, and forming devices to move the end portions of said U-shaped bar into positions on opposite sides of a plane extending through and parallel with the intermediate portion thereof.

1,337,464. ROLLING-MILL SHEARING AND PILING APPARATUS. HENRY G. O'BRIEN, Warren, Ohio. Filed Aug. 26, 1918, Serial No. 251,446. Renewed Mar. 11, 1920. Serial No. 365,096. 4 Claims. (Cl. 164—49.)



1. The combination of a shear, a roll table at one side thereof the rolls of which are grooved in planes perpendicular to the roll axes, a gage adjacent to said table and movable to and from a position of obstructing the advance of a blank being conveyed by said table, the face of said gage being provided with projections adapted to fit into the grooves of said rolls when the gage is in the position of obstructing the advance of a blank, and means for moving said gage to said alternate positions.

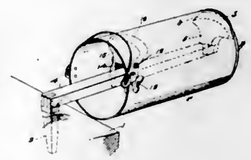
1,337,465. MACHINE FOR HARDENING PLATES. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Nov. 25, 1918. Serial No. 263,986. 7 Claims. (Cl. 266—6.)



1. A chilling machine having horizontally arranged chilling plates relatively movable toward and from each other, and supporting means for supporting work above the nether plate, said supporting means being downwardly yieldable.

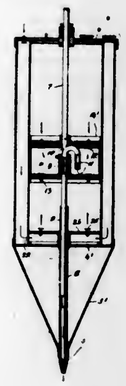
1,337,466. DOUBLE-SEAMING STAKE. JORGEN OLSON, Cashton, Wis. Filed June 10, 1919. Serial No. 303,105. 2 Claims. (Cl. 113—111.)

1. A device of the class described including an arm having attaching means, a seaming head carried by the arm and having its outer portion arched, the outer face of said seaming head being beveled inwardly, and a second head carried by said arm in spaced relation to said first



named head, said second named head being adjustable on said arm and having its outer face disposed in the horizontal plane of the outer face of said first named head.

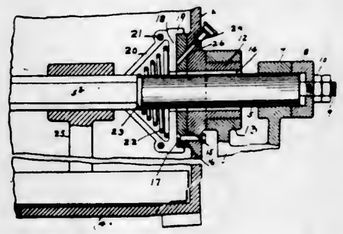
1,337,467. SYRINGE. GEORGE T. PEARSONS, New York, N. Y. Filed July 29, 1915. Serial No. 42,469. 20 Claims. (Cl. 299—98.)



7. In a syringe the combination of a reservoir having a discharge outlet; a chamber within said reservoir connected to the reservoir at opposite ends of said chamber; a hollow piston to reciprocate in said chamber; a rod connected to the piston to reciprocate the same; means to at all times connect the interior of the piston to the outlet; and valves in opposite ends of said piston; said piston when moved in one direction drawing liquid from one end of the chamber and discharging it through the piston and drawing liquid from the reservoir into the opposite end of the chamber, and when moved in a reverse direction drawing liquid thereinto from said opposite end of the chamber and discharging it through the piston and drawing liquid from the reservoir to the other end of the chamber.

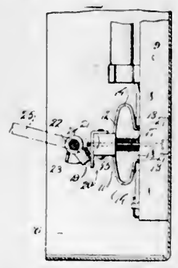
20. In a fire extinguisher, the combination with a reservoir to contain liquid, of a piston cylinder having closures secured to opposite ends and connected immovably at opposite ends in the reservoir and having inlet ports to opposite ends thereof; a piston to reciprocate in said cylinder; a fixed tubular member in the reservoir in communication with the inlet ports of the piston cylinder; intake means connected to said tubular member comprising tubes having inlets from opposite ends of the reservoir and adapted to assume variable positions near the side of the reservoir; valve mechanism operable to shut off the liquid from the reservoir to the piston cylinder through an intake tube when the piston cylinder is connected to the reservoir through the other intake tube; and valve mechanism operable through the reciprocation of the piston to control the entrance of liquid to and its discharge from the piston cylinder at opposite sides of the piston.

1,337,468. MIXER. WALTER J. PEES, Meadville, Pa. assignor to Blystone Manufacturing Company, Cambridge Springs, Pa., a Corporation of Pennsylvania. Filed Mar. 15, 1917. Serial No. 155,085. 5 Claims. (Cl. 286—30.)



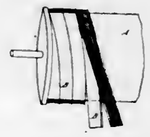
1. The combination of a drum having a joint surface on the inside end thereof; a hollow trunnion extending from the drum; a shaft extending through the drum, the shaft being of a size leaving a space between the trunnion and shaft; a joint plate on the shaft seating on the joint surface on the drum; a spring pressing the joint plate and surface together; and a housing for the spring protecting the spring from the material within the drum, the space in the housing being in communication with the space between the shaft and trunnion.

1,337,469. ELECTRIC SWITCH. CLARENCE D. PLATT, Bridgeport, Conn. Filed May 1, 1919. Serial No. 294,044. 5 Claims. (Cl. 200—171.)



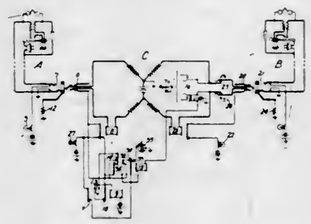
5. In a switch of the character described, the combination of spaced contacts and a bridging contact having reversely bent end portions engaging the faces of the spaced contacts and angularly bent tips extending over but spaced from the ends of the spaced contacts.

1,337,470. DRUM OR CYLINDER OF CARDING-ENGINES AND THE LIKE. JOHN PLATT, Harrow, England, and WILLIAM PLATT and HENRY PLATT, Roubaix, France. Filed Feb. 11, 1920. Serial No. 357,834. 6 Claims. (Cl. 19—2.)



1. A method of clothing the drums or cylinders of carding engines which consists in lapping or spirally winding upon the peripheral surface thereof, a flat strip or band having an upturned edge or edges, and card clothing, said card clothing being supported upon the strip or band and between the upturned edges thereof.

1,337,471. TELEPHONE-EXCHANGE SYSTEM. WILLIAM H. HARRISON, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 9, 1918. Serial No. 233,450. 6 Claims. (Cl. 179—72.)



1. A telephone exchange system comprising a telephone line, a link circuit connected therewith, a supervisory relay for the link circuit, a second relay operating upon the energization of the supervisory relay, a third relay energized upon the deënergization of the supervisory relay to release the second relay, a signaling device, and interrupter mechanism connected in circuit with the signaling device by the subsequent operation of the second relay when the supervisory relay is energized.

1,337,472. WINDSHIELD-SCREEN. WILLIAM B. HERBST, Columbus, Ind. Filed Feb. 6, 1919. Serial No. 275,335. 11 Claims. (Cl. 296—94.)



1. The combination with an automobile windshield including upper and lower swinging sections, of a screen in front of said lower section to prevent the entrance of foreign matter when said lower section is opened, an additional screen carried by the upper edge of said first named screen to extend between the two sections of the shield when said upper section is opened, and means for securing said additional screen in operative position.

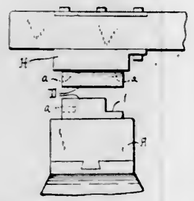
1,337,473. WATER-HEATER. CHARLES EDOUARD JEANNOTTE, Montreal, Quebec, Canada. Filed Jan. 16, 1919. Serial No. 271,543. 2 Claims. (Cl. 257—224.)



1. A water heater comprising an outer casing having a water inlet and outlet, an inner casing within the outer

casing, a plurality of vertical tubes within the inner casing and opening through the opposite ends thereof, means for supplying steam to the interior of said inner casing, means providing an air space between said steam supply means and said outer casing to prevent the cold water entering the outer casing from contacting with the steam supply means, and means drawing off the water of condensation from said inner casing; substantially as described.

1,337,474. DIE FOR POWER-HAMMERS. MYRON A. JENNINGS, Santa Cruz, Calif. Filed Apr. 3, 1918. Serial No. 226,525. 1 Claim. (Cl. 78—44.)



As a new article of manufacture, a die for a power hammer adapted for use in welding and edging in a pallet wheel tire, said die having an end portion of its working face cut away, the walls of said cut away portion being substantially perpendicularly related with the end wall of said cut away portion being substantially at right-angles to the working face of the die, said cut-away portion of the die being adapted to be employed in edging a tire.

1,337,475. [WITHDRAWN.]

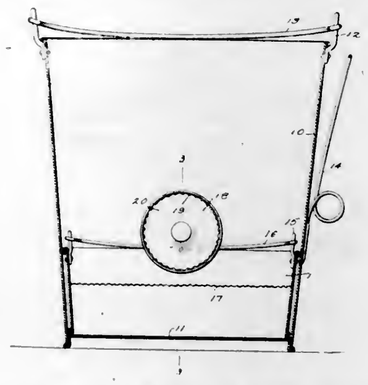
1,337,476. OVERSHOT FISHING-TOOL. EDWARD A. KLIEWER, Tolar, Tex. Filed July 17, 1919. Serial No. 311,423. 6 Claims. (Cl. 294—102.)



1. In a fishing tool, a plurality of jaws, a supporting head to which said jaws are secured, a tubular element connectible with a raising and lowering means, a supporting and actuating spring supported by said tubular element, a rod extending into said tubular element and secured to said head and supported by said spring so that said jaws are yieldingly supported by said spring, and means coöperative with said head, rod, tubular element, and spring for closing said jaws.

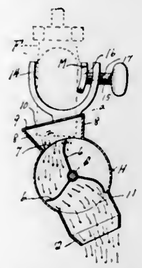
1,337,477. APPARATUS FOR WASHING AUTOMOBILES AND THE LIKE. HENRY F. KNAPP, Lebanon, N. H. Filed Apr. 22, 1919. Serial No. 291,881. 3 Claims. (Cl. 15—15.)

2. A device of the character described comprising a pail, an annular support arranged within the pail to contact with the bottom of the same and adapted to be removed therefrom, a foraminous supporting element carried by the annular support and spaced from its lower end,



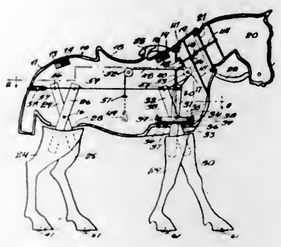
a movable soap holding element arranged in proximity to the annular support near and above the foraminous supporting element, and means detachably connecting the movable soap holding element with the annular support.

1,337,478. WATER-MOTOR FOR EGG-BEATERS. RUSSELL L. LONG, Morgantown, W. Va. Filed Dec. 24, 1919. Serial No. 347,092. 2 Claims. (Cl. 253—136.)



1. A water motor for an egg beater and the like comprising a housing provided with induction and eduction openings, a drive shaft extending within the housing, a yoke carried by the housing and adapted to straddle a faucet from below, and a clamping member carried by the yoke for coaction with a faucet.

1,337,479. WALKING TOY HORSE. ARTHUR H. LOOMIS, Las Cruces, N. Mex. Filed Aug. 21, 1919. Serial No. 318,962. 4 Claims. (Cl. 46—22.)



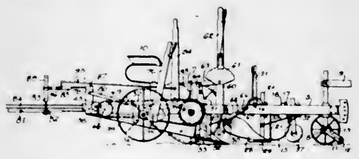
1. A device of the character described comprising a body formed as the representation of an animal and including mating sections secured together, said body being hollow and including a neck portion, a head portion pivoted within said neck portion for lateral swinging movement, a bridle connected with said head portion whereby to effect movement thereof, a turntable mounted within the forward portion of said body at the bottom thereof, said body being provided with an opening beneath said turntable and said turntable being provided with openings, front legs pivoted within said last named openings and extending up into said body, a crank shaft extending upwardly from said turntable, a train of levers connected with said head portion and said crankshaft, the rear portion of said body being provided with openings in the bottom thereof, rear legs extending through said last named openings and pivoted within said body, a pair of pulleys journaled within the front and rear portions of said body, a flexible member extending into the sides of the body, trained about said pulleys and connected with said legs, and stirrups on the ends of said flexible member.

1,337,480. BODKIN. LILLIAN M. MATTHAEI, New York, N. Y. Filed Mar. 17, 1919. Serial No. 283,110. 4 Claims. (Cl. 223—38.)



1. A bodkin comprising a pointed body having in its rear end a channel to receive the end of a tie, a prong in said channel to hold the tie against endwise slippage therefrom, and a half-sleeve rotatable on said rear end of said body and adapted to close the open side of said channel after insertion of the tie.

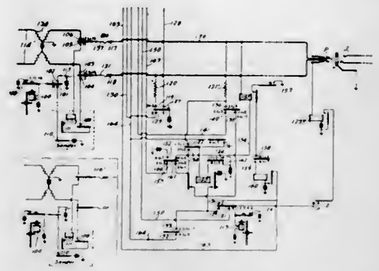
1,337,481. BEET-HARVESTER. MERRELL S. MONTAGUE, Rigby, Idaho, assignor of one-half to Joseph W. Jones, Rigby, Idaho. Filed June 10, 1918. Serial No. 239,197. 10 Claims. (Cl. 55—107.)



1. In a beet harvesting machine, a beet top depressing plate and a beet topping knife blade disposed in vertical spaced relation to each other, said plate and the knife having opposed obliquely inclined edges, means for adjusting the plate and the knife vertically as a unit, and means for independently adjusting said plate and knife to dispose their inclined edges in predetermined relation to each other in the direction of travel of the machine.

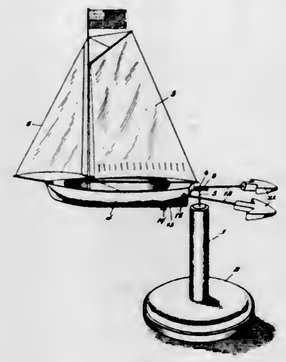
1,337,482. ELECTRIC SIGNALING SYSTEM. FRANK N. REEVES, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 127,659, filed Oct. 25, 1916. This application filed Nov. 3, 1917. Serial No. 200,058. 13 Claims. (Cl. 179—27.)

1. In combination, a plurality of telephone lines, a plurality of senders, means for associating any one of said senders with any one of said lines, a plurality of selectively operable switches arranged to operate under the control of any one of said senders, a finder for each of said switches arranged to connect the associated switch to any one of said lines, means operative upon the connection of a sender to a line for operating one of said finders to connect with said last mentioned line, a variably operable signal, means controlled by any one of said switches



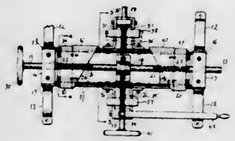
for operating said signal, and means for permitting the successful operation of said signal by only one switch at a time.

1,337,483. REVOLVING TOY. LEONARD ROMANIELLO, Dunmore, Pa. Filed Oct. 8, 1919. Serial No. 329,232. 2 Claims. (Cl. 46—14.)



1. A device of the character described comprising a support, a revolving boat-shaped body carrying a sail, a bearing pin upon the support, an arm projecting longitudinally from the stern of the body and journaled on said pin, a bracket fixed to the body and having branches projecting therefrom beyond the arm and on the opposite side of the bearing pin from the boat-shaped body, and weights carried by said branches and operating to counterbalance the weight of said boat-shaped body.

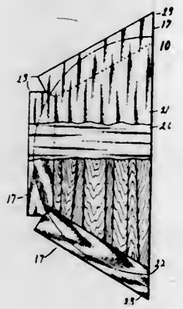
1,337,484. CLAMPING DEVICE. JOHN RUOFF, New Albany, Ind., assignor to Indiana Veneer and Panel Company, New Albany, Ind., a Corporation of Indiana. Filed Dec. 29, 1919. Serial No. 348,023. 4 Claims. (Cl. 144—291.)



1. In a device as characterized, a frame, a shaft, right and left hand threads on said shaft, heads slidably associated with said frame, and in operative connection with said threads whereby said heads may be caused to ap-

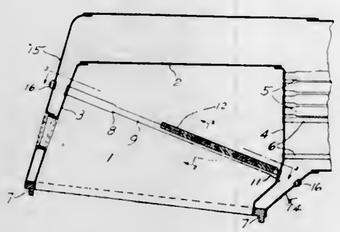
proach or recede from each other, the shaft being rotatably and slidably mounted whereby it may be moved longitudinally together with associated heads.

1,337,485. ROUND-TOP WORK. JOHN RUOFF, New Albany, Ind., assignor to Indiana Veneer and Panel Company, New Albany, Ind., a Corporation of Indiana. Filed Dec. 29, 1919. Serial No. 348,024. 2 Claims. (Cl. 144—309.)



1. A table top comprising a polygon shaped built up core, a plurality of straight grained strips applied to the sides of said polygon forming a rim thereabout, and a plurality of layers of veneer applied to both faces of said core and rim.

1,337,486. LOCOMOTIVE-FIREBOX ARCH. GILBERT E. RYDER, Leonia, N. J. Filed Mar. 1, 1919. Serial No. 279,944. 7 Claims. (Cl. 122—68.)



1. In a locomotive, the combination of a back sheet, a back tube sheet, an arch tube comprising two cylindrical portions secured to the two sheets respectively and a plurality of spaced parallel branches connecting the cylindrical portions, and a plurality of arch bricks, supported by the branches.

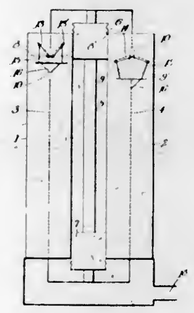
1,337,487. TOWER-WAGON. GUSTAV SCHLATTER, Steinach, Switzerland, assignor to Firma Adolphe Saurer, Arbon, Switzerland, a Firm of Switzerland. Filed Sept. 13, 1919. Serial No. 323,666. 7 Claims. (Cl. 189—11.)

7. In an apparatus of the character described, the combination of a tubular standard, an extension member movable vertically within the standard, means to hold the same from rotation, hydraulic means to elevate the extension member and a working platform rotatably mounted at the upper end of the extension member, a gear fixed on the extension member and a driving pinion carried by the platform and engaging the fixed gear, the fixed gear being provided with locking notches and the driving pinion being movable axially and provided with a locking



disk to be moved into or out of engagement with the fixed gear.

1,337,488. METHOD OF REGULATING THE VELOCITY OF FUMES PASSING THROUGH ELECTRICAL PRECIPITATORS. WILLIAM W. STRONG, Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1917. Serial No. 193,206. 5 Claims. (Cl. 183—7.)



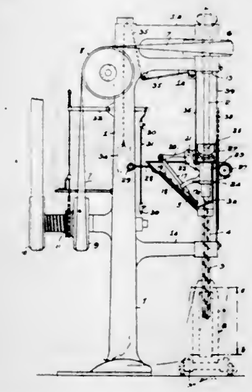
1. The combination of an electric precipitator of the multiple pipe treater type and automatically controlled means positioned in the different pipes for equalizing the flow of gas therein.

1,337,489. METHOD OF REGULATING THE VELOCITY OF FUMES PASSING THROUGH ELECTRICAL PRECIPITATORS. WILLIAM W. STRONG, Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1917. Serial No. 193,207. 9 Claims. (Cl. 183—7.)

4. In an electric precipitator the combination of a treater chamber, a discharge electrode extending therethrough, means for constricting the flow of gas adjacent the electrode and means for preventing a disruptive discharge from the discharge electrode to said constricting means at voltages below the normal critical voltage.



1,337,490. APPARATUS FOR FILLING EXPLOSIVE MATERIAL INTO SHELLS OR OTHER RECEPTACLES. WILLIAM SUMNER, Liverpool, England. Filed Aug. 20, 1917. Serial No. 187,181. 8 Claims. (Cl. 86—20.)



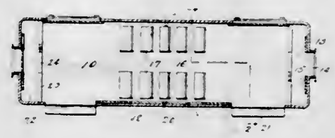
8. Apparatus for filling explosive material into receptacles comprising a movable nozzle, and means for feeding the material through the nozzle, said material reacting against the nozzle as the receptacle is filled to force said nozzle out of the receptacle.

1,337,491. HERMETICALLY-SEALED RECEPTACLE. WILLIAM E. TAYLOR, East Orange, N. J., assignor to American Can Company, a Corporation of New Jersey. Filed Jan. 7, 1916. Serial No. 70,859. 2 Claims. (Cl. 220—61.)



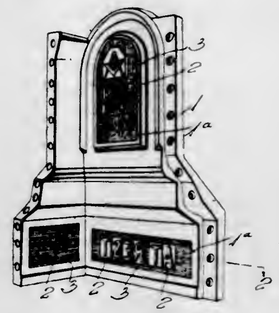
1. A removable seal for sheet metal receptacles, the same consisting of a body outwardly flanged around its mouth, a cover formed with a marginal flange and a central depression and shoulder seated in the mouth of the receptacle, and a malleable metal sealing strip embracing the upper and lower faces of the flanges of the body and cover and holding them together to form an hermetic joint, the upper and lower members of said strip and the cover flange and the body flange being arched upward and substantially parallel, the upper member of said strip having a lip extending over and slightly within the corner of the shoulder of said cover.

1,337,492. ENTRANCE AND EXIT CAR FOR TRAINS. KENDEL J. TERRELL, Hushpuckena, Miss. Filed Aug. 30, 1919. Serial No. 320,832. 3 Claims. (Cl. 105—341.)



1. An entrance and exit car for employment as an element of a train of cars comprising a body having a door in each end for passage to other cars of a train, and a door in each side adjacent to each end but spaced therefrom and a barrier disposed between each end pair of side doors and the adjacent end of the car with a resultant conductor's compartment, between each barrier to the corresponding end of the car.

1,337,493. METHOD AND APPARATUS FOR FORMING MONOLITHIC STRUCTURES. ALEXANDER F. VOLZ, Jr., St. Louis, Mo. Filed Dec. 18, 1919. Serial No. 345,697. 5 Claims. (Cl. 25—121.)

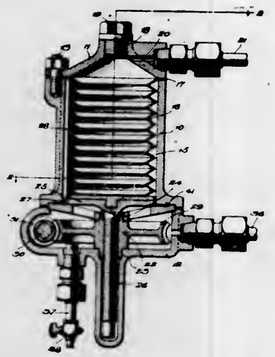


3. In a mold of the class described for forming an article having a lettered irregular surface, one side of the mold having a recess of uniform depth throughout, a layer of plastic composition, matrices mounted on said layer, said layer and matrices being disposed in said recess, a plastic composition surrounding said matrices and adapted to secure them in said recess, said layer and last named composition possessing approximately the same shrinking qualities as the article forming material whereby the matrices will be permitted to shift position as the last named material shrinks.

1,337,494. LUBRICATOR. JAMES T. WALLIS, Altoona, Pa. Filed Aug. 9, 1919. Serial No. 316,346. 22 Claims. (Cl. 184—37.)

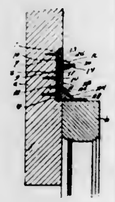
11. A device of the character described including in combination, a cylindrical shell closed at both ends, a collapsible container within the shell having an open end adjacent one end of the shell secured thereto, the latter end of the shell having a discharge conduit leading to a pressure pipe to which the lubricant is fed, means at the other end of the shell to collapse the container, and

means providing communication between the said pipe and the space between the outside of the container and



the interior of the shell, whereby the outside of the container is subjected to a pressure tending to oppose distortion thereof.

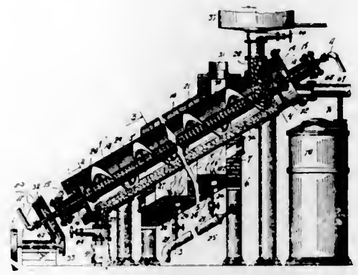
1,337,495. WINDOW-SASH STOP. THOMAS WERTZ and FREDERICK W. SPRINGMEYER, St. Louis, Mo.; said Wertz assignor of one-sixth to Ervin H. Maune and one-sixth to John Crinnion, St. Louis, Mo. Filed July 3, 1918. Serial No. 243,169. 1 Claim. (Cl. 292—300.)



A sash stop comprising a vertical plate for attachment to an upper sash, said plate having parallel flanges integral with the vertical edges of its outer side, a prong integral with the inner side of said plate near its lower end and adapted to be driven into the sash, a lug integral with the outer side of said plate in line with said prong and adapted to receive blows from a hammer whereby to drive said prong without injuring the plate or its flanges, a boss integral with the outer side of said plate near its upper end, said plate having in its inner side a socket alined with said boss and provided with an internal stop, said boss having a key hole slot opening into said socket, a second vertical plate receivable between said flanges and having an opening and a socket receiving said lug and said boss respectively, a sash stop on the lower end of said second plate, a pin passing through said second plate for reception in said keyhole slot, a lateral projection on the inner end of said pin for disposition in the first named socket when said pin is turned, and a winged head on the outer end of said pin for contact with the outer side of said second plate.

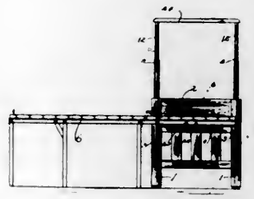
1,337,496. PROCESS FOR TREATING COAL. JOHN N. WINGETT, Denver, Colo., assignor to Warren A. Haggott, trustee, Denver, Colo. Filed May 3, 1915. Serial No. 25,636. 2 Claims. (Cl. 202—1.)

1. The herein described process of hardening coal preparatory to shipment to the market or storage, which comprises passing the coal through a closed chamber and subjecting the coal to heat therein, the degree of heat being sufficient to drive off certain of the volatile constituents only adjacent the surface, the heavier oils being caused to move to the surface and dried, giving the coal



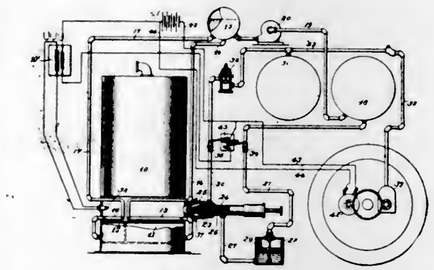
a hard exterior which protects it against exposure to the atmosphere and prevents the formation of dust and slack.

1,337,497. TABLE-BED. RICHARD N. WOODMAN, Chicago, Ill., assignor, by direct and mesne assignments, to Dick Safety Corporation, a Corporation of Illinois. Filed Mar. 2, 1917. Serial No. 152,137. 6 Claims. (Cl. 5—17.)



1. In an article of furniture of the class described the combination with a table having chambers in the ends thereof, of a movable top on said table normally closing said chambers, a folding bed within said table between said chambers, mechanisms within said chambers, and telescoping supports within said table connected with said mechanisms and with said top adapted to be elevated from said table and adjusted with respect to each other to elevate the table top to permit unfolding of the bed.

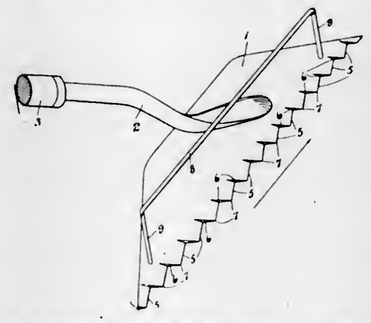
1,337,498. STARTING DEVICE FOR BURNERS. JULIUS ALSBERG, Chicago, Ill. Filed Jan. 28, 1918. Serial No. 214,109. 1 Claim. (Cl. 158—81.)



In an apparatus of the character described, the combination with a boiler of a burner, a vaporizer positioned intermediate said boiler and said burner and communicating

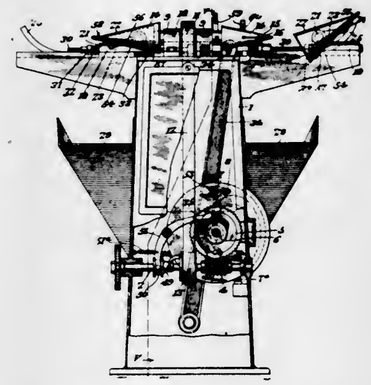
with the latter, means for supplying fuel under pressure to said vaporizer, an atomizer operatively associated with said vaporizer comprising an air duct and a fuel duct, means for supplying air under pressure to said air duct, and means for supplying fuel under atmospheric pressure to said fuel duct, substantially as specified.

1,337,499. BEAN OR WEED CUTTER. JACOB AMAN, Talmadge township, Ottawa county, Mich. Filed May 20, 1919. Serial No. 298,539. 4 Claims. (Cl. 55—44.)



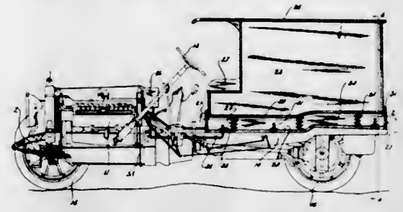
1. In a device of the character described, an elongated cutter blade formed at one longitudinal edge with a consecutive series of cutting edges located at an acute angle to the length of the blade, each of said cutting edges being located behind a protecting shoulder projecting from the blade in front of said edge whereby the edges are protected from contact with stones or like articles, substantially as and for the purposes described.

1,337,500. MACHINE FOR MAKING PASTRY CONES. PAUL ARDUIN, Mount Vernon, N. Y., assignor to Arduin Brothers, Mount Vernon, N. Y., a Copartnership composed of Robert Arduin and Caesar Arduin. Filed Nov. 26, 1919. Serial No. 340,912. 26 Claims. (Cl. 107—58.)



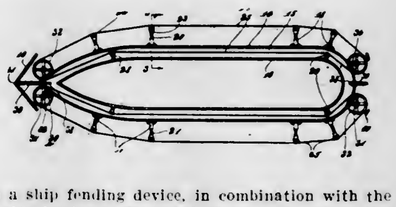
26. In a machine for forming conical containers from pastry blanks, the combination of a hollow conical die having a blank-feed throat, a conical mandrel, yieldable means carried by the mandrel adapted to coöperate with the die to strip a formed container from the mandrel, means for rotating the mandrel, means for shifting the die endwise into and out of mandrel-embracing position, and means for tilting the die to discharge the shaped container therefrom when the die is moved out of mandrel-embracing position.

1,337,501. COMPRESSOR. VERONICA ARLUSKES, Bridgeport, Conn. Filed May 28, 1918. Serial No. 237,065. 2 Claims. (Cl. 280—106.5.)



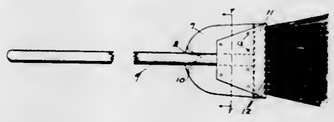
2. In a supplementary power means for self-propelled vehicles, the combination with a truck, of a rectangular casing rising from said truck, a car body slidably engaged therein, a chamber formed between the lower portion of said car body and said truck, a plurality of compression springs in said chamber by which said body is supported, air inlet valves entering said chamber, a single outlet valve from said chamber, an air reservoir, and tubular connections between said outlet valve and said air reservoir.

1,337,502. TORPEDO-GUARD. KOSTANTYN BABECKI, Winfield, N. Y. Filed Sept. 27, 1918. Serial No. 255,917. 1 Claim. (Cl. 114—240.)



In a ship fending device, in combination with the hull of a ship having a channeled recess at the water line and extending therebelow, brackets extending outwardly from the inner vertical wall of the recess, other brackets extending outwardly from the hull of the ship, rollers carried in all of said brackets, band wheels rotatably mounted at the stem and stern upon each side of said ship, said band wheels being adapted to rotary motion and continuous flexible nettings on each side of the ship passing over said band wheels at the rear of the ship to the band wheels at the front and over said rollers, said nettings moving rearwardly over the rollers on the hull of the ship and toward the front over the rollers within said channeled recess, and torpedo deflecting means at the bow and stern of said ship, substantially as described.

1,337,503. BROOM. CLIFFORD J. BAIRD, Portland, Oreg., assignor, by direct and mesne assignments, of one-third to Fred G. Hall, Portland, Oreg., and one-third to Alfred M. Baird, Portland, Oreg. Filed Aug. 2, 1919. Serial No. 315,010. 1 Claim. (Cl. 15—20.)



In a broom, the combination of a handle, a wooden head block rigidly secured thereon, a metal plate having its sides bent upwardly and secured to opposing surfaces of the head block, said plate being provided with a series of openings through its lower part, and a brush holder having coarse fibrous material in bunches of desired length

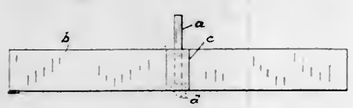
secured therein, the bunches extending downwardly through the plate openings and the brush holder being placed and held in rigid position within the plate channel and between the plate and the head block when secured to each other, substantially as described.

1,337,504. WIRE-FABRIC MACHINE. HENRY W. BLOEMKER, Philadelphia, Pa., assignor to John Hancock, Philadelphia, Pa. Filed Oct. 17, 1919. Serial No. 331,277. 12 Claims. (Cl. 140—102.)



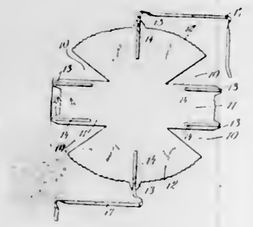
1. A wire fabric machine comprising in combination, means for feeding a length of wire intermittently, a die arranged to receive and form a portion of said wire into a predetermined shape, means for opening and closing said die in timed relation with respect to said feeding means, a second die arranged to receive the shaped portion of said wire, and means to form a loop in the portion of said wire between said dies.

1,337,505. ELECTRICAL CONDENSER. WILLIAM C. BRINTON, Jr., Kennett Square, Pa., assignor to Philips-Brinton Company, Kennett Square, Pa., a Corporation of Pennsylvania. Filed Dec. 13, 1917. Serial No. 206,900. 4 Claims. (Cl. 250—41.)



1. A condenser comprising layers of dielectric material and layers of conducting material, a lead of conducting material separate from the layers of conducting material and extending within the body of the condenser and contacting with a layer of conducting material, and a protecting and retaining cover overlying the lead.

1,337,506. WATERPROOF HAT-PROTECTOR. RUTH E. CHEW, Brooklyn, N. Y. Filed July 24, 1918. Serial No. 246,583. 4 Claims. (Cl. 2—108.)



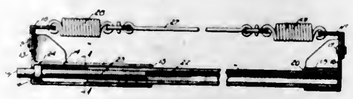
2. A hat or head protector comprising a paper cover having a plurality of tabs extending outwardly at its edges and a ribbon wire extending radially, secured to the protector at the tabs, and adapted to be bent under the hat brim to hold the protector in position.

1,337,507. PAPER BOX. ERNESTO DE LEMOS, New York, N. Y. Filed Nov. 1, 1915. Serial No. 59,115. 1 Claim. (Cl. 229—16.)



An integral blank for forming a box, said blank being provided near and spaced from one end thereof with a score, said score forming one longitudinal edge of a bottom portion and a side portion which is integral with the bottom portion and foldable upon the last named score thereby having a hinge connection with the bottom portion, said blank being provided with three transverse scores near and spaced from the opposite end thereof, the inner score of the three scores forming an outer side portion foldable upon the bottom portion at the last named score and thereby having a hinge connection, the intermediate transverse score providing an inner side member foldable upon the intermediate score and having a hinge connection therewith, the outer transverse score of the three scores providing a false bottom member foldable upon the outer transverse score and having a hinge connection with the inner side member and adapted to rest upon the bottom member, said blank being provided at the ends of the said pair of transverse scores with end members integral therewith and having scores at their inner ends upon which they are foldable and thereby have a hinge connection with the first named side portion, the end members being transversely scored near and spaced from the ends thereof for providing end flaps, and the end members being longitudinally scored at their lower longitudinal edges providing bottom flaps, adapted for insertion between the bottom member and false bottom member, while the end flaps are adapted for insertion between the inner and outer side members, the bottom flaps of said end members being of the same width as said bottom and extending inwardly from the ends for a considerable distance whereby said end members are unremovably held when said false bottom is in assembled position.

1,337,508. BED-SPRING. LOUIS H. ERSHLER and MAX HENDLER, Hudson, N. Y. Filed Dec. 18, 1919. Serial No. 345,906. 1 Claim. (Cl. 5—69.)

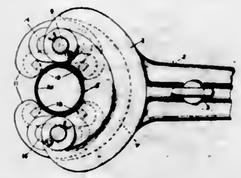


In a bed spring, a pair of tubular side members provided in one end with internal screw threads, end members provided at each side thereof with tubular members slidably receiving the ends of said side members, a spring holding said end members in assembled position upon said side members, and means engaging in the internal threads of said side members and abutting one of said end members for adjusting the tension of said spring, the tubular members being of greater length than those of the other end member.

1,337,509. PIPE-TONGS. HAROLD W. FLETCHER, Houston, Tex. Filed Jan. 30, 1919. Serial No. 274,117. 14 Claims. (Cl. 81—91.)

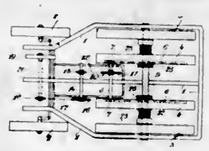
1. In a pair of pipe tongs, a single handle, a forked head having two branching prongs of equal length thereon,

pins passing through both arms of said head, arc-shaped jaws pivoted on said pins, said jaws being spaced apart



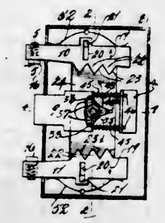
and unconnected and means on one of said jaws coöperating with its pivot pin to decrease the distance between said jaws.

1,337,510. DRIVING AND RUNNING GEAR FOR AGRICULTURAL MACHINES AND THE LIKE. OLOF FRANKMAN, Malmö, Sweden. Filed Aug. 14, 1919. Serial No. 317,573. 2 Claims. (Cl. 180—22.)



1. A mechanism of the character described, consisting of a frame, a pair of ground wheels at the forward end of said frame, a pair of ground wheels at the rear end of said frame, a pair of wheels spaced away from said rear wheels, individual clutches for each set of rear wheels, means for operating said clutches and driving means for said wheels.

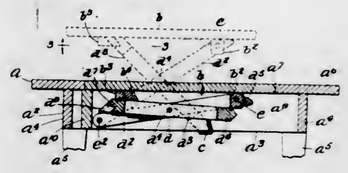
1,337,511. LOCK. BENGIMAN FREEDMAN, Coney Island, N. Y. Filed May 28, 1919. Serial No. 300,415. 10 Claims. (Cl. 70—46.)



1. In a lock, a bolt arranged for a reciprocating movement, a plurality of slidably mounted bolts, a yieldable nose carried by each slidable bolt, means to actuate said slidable bolts, and an oscillatable shank arranged to actuate the slidable bolt operating means and also the reciprocatable bolt.

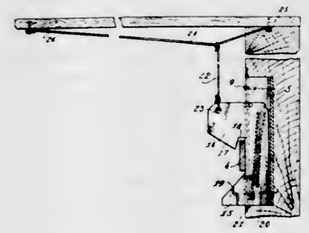
1,337,512. IRONING-BOARD. FRANKLIN C. FUELLING, Roslyn, N. Y. Filed June 26, 1919. Serial No. 306,812. 1 Claim. (Cl. 68—10.)

A table provided with an aperture of the shape of an ironing board, an ironing board adapted to fit in said aperture, said ironing board being provided on the bottom of one end portion thereof with a keeper and the frame of the table being provided with another keeper, a toggle lever member pivoted to the bottom of one end portion of the board opposite the first named keeper, and another toggle lever member pivoted centrally of the first named toggle lever member and the ends of which are adapted to engage



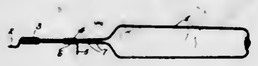
and operate in connection with said keepers whereby the board may be raised and held in an elevated position for use and lowered when not in use into said aperture flush with the table.

1,337,513. WINDOW-LOCK. FREDERICK HALDEMAN, Canton, Ohio. Filed Oct. 6, 1919. Serial No. 328,944. 4 Claims. (Cl. 292—171.)



1. A lock for a hinged window including a hinged casing mounted upon the window frame, a channel shaped sliding latch member mounted therein and provided with a pair of outwardly tapered ears and with a recess, the casing being provided with a slot through which said ears protrude, a bar carried by the window sash and arranged to be received between the ears and means for normally holding the recess in engagement with the bar.

1,337,514. CAN-OPENER. MOSES L. HAWKS, New York, N. Y. Filed Sept. 3, 1919. Serial No. 321,452. 2 Claims. (Cl. 30—3.)
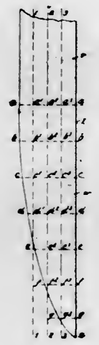


1. A can opener consisting of a frame having diverging spring arms forming the shank, a can opener knife adjustably mounted on said shank and overlapping the same, the knife being clamped or held in the desired position on said shank, by means of the spring tension of the diverging arms of the shank, acting in conjunction with the overlapping knife portion.

1,337,515. AEROFOIL FOR AEROPLANES AND THE LIKE. ALEXANDER ALBERT HOLLE, London, England. Filed July 22, 1919. Serial No. 312,537. 2 Claims. (Cl. 244—12.)

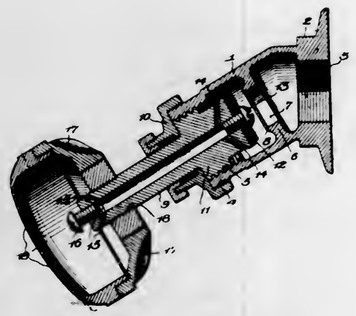
1. An aerofoil of the cambered type for aeroplanes comprising a main or central part having the same curvature and the same angle of incidence throughout its lateral length, and a tip part the length of which is gradually reduced from the leading edge of the main or central part to its extreme end or tip the curvature of said tip part

being at every point on any line parallel to the leading edge of the main or central part the same as the curvature



of the main or central part on same line and the angles of incidence of said tip part being gradually reduced toward the extreme end or tip of said part.

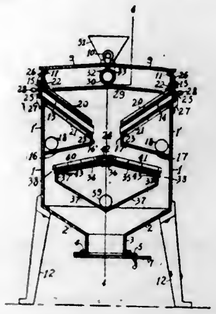
1,337,516. SPRAY-VALVE. ALBERT B. HOLMES and THOMAS M. DUGAN, McKeesport, Pa. Filed Apr. 18, 1917. Serial No. 162,965. 5 Claims. (Cl. 299—144.)



1. A spray valve comprising a casing having a valve seat, a rotatable valve stem extending through the casing, a hollow spray head carried concentrically on the outer end of the valve stem, said head having a series of perforations therein, a valve disk on the inner end of the valve stem, said disk being arranged to engage the valve seat in closing the valve, said valve stem having an aperture connecting the interior of the casing with the interior of the spray head and said spray head forming a handle for turning the valve stem to move the valve disk toward and away from the valve seat.

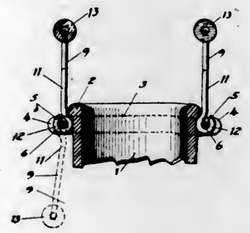
1,337,517. FILTERING APPARATUS. JUAN M. IZQUIERDO, Habana, Cuba. Filed Dec. 10, 1918. Serial No. 266,054. 5 Claims. (Cl. 210—16.)

1. A filtering apparatus, comprising a plurality of pairs of filtering surfaces disposed one above another, the members of each pair being inclined in opposite directions relatively to each other and to the members of the pair immediately therebelow, the members of one pair



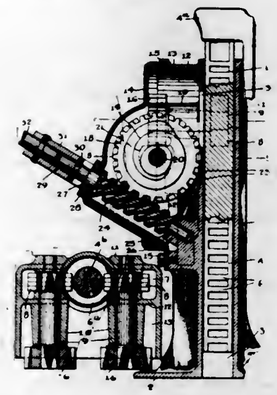
being spaced apart and the members of the next succeeding pair connected together below said space.

1,337,518. CARRIER. BENJAMIN F. KELLY, Denver, Colo. Filed Oct. 14, 1919. Serial No. 330,677. 2 Claims. (Cl. 215—1.)



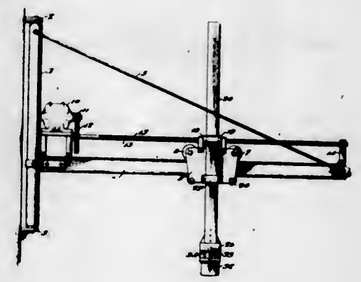
1. A carrier of the class described comprising a pair of segmental jaws for embracing a vessel, said jaws having flanges at their ends, bolts engaged with the flanges for holding the jaws in clamped engagement with the vessel, and bails having eyes for pivotal engagement with the bolts, and between the flanges.

1,337,519. JACK. JOHN C. KOPF, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 24, 1919. Serial No. 332,867. 9 Claims. (Cl. 254—97.)



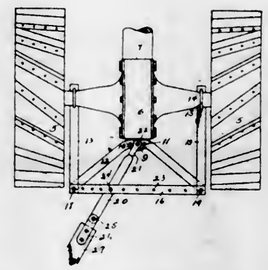
1. A jack comprising a frame, a double rack-bar therein, pinions meshing the rack-bar at opposite sides, a pair of gears connected with the rack-pinions and having buttress teeth reversely disposed, a double spiral pinion on a transverse axis projecting in meshing engagment between said buttress gears, the working faces of the spiral pinion having a major spiral pitch and a minor helical pitch and adapted to exert power upon series of teeth on the converging arcs of the buttress gears substantially at right angles to the transverse axis, in combination with a gear on the middle of said double spiral pinion, and a driving pinion meshing with said gear.

1,337,520. DROP-HAMMER. PHILANDER E. LANE, Atlantic City, N. J. Filed Feb. 28, 1919. Serial No. 279,731. 2 Claims. (Cl. 78—29.)



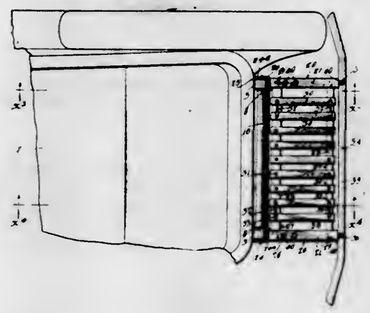
2. A drop hammer including with a jib crane structure, a car mounted to travel over the outer extent of the beam of said crane, power means mounted on said beam at the inner end thereof, a shaft driven by said power means journaled above and parallel with said beam, said shaft having a keyway formed longitudinally of the outer extent thereof and extending for length corresponding to the distance of travel of said car, a friction lift hammer structure held in operative position on said car by suitable slides and rolls, a friction roll slidably mounted on said shaft and having a key received in the key-way thereof, extensions carried by said car to move said friction roll as the car is moved and to maintain the same at all times in an operative position, and a pressure roll mounted adjacent said friction roll and shiftable to render the parts operative and inoperative.

1,337,521. DRAW-BAR FOR TRACTORS. JACOB LAUER, Jr., Cherokee, Iowa. Filed Dec. 2, 1918. Serial No. 264,962. 2 Claims. (Cl. 213—67.)



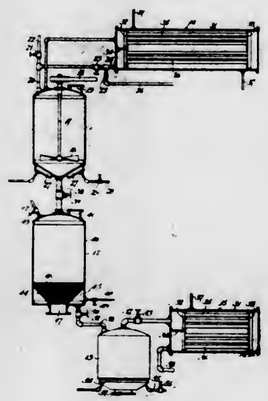
1. In a device of the character described the combination with a tractor having a shaft housing and a cap upon the rear end thereof, of a horizontally disposed ear upon said cap, a strap having its intermediate portion fixed to said ear, braces extending between the opposite ends of said strap and the axle housings of the tractor, spaced parallel bars extending between and secured to the ends of said braces and the opposite ends of said strap, a draw-bar pivoted to the ear and having horizontal swinging movement between said parallel bars, and means for holding said draw-bar in varying positions of adjustment between said parallel bars.

1,337,522. ATTACHMENT FOR AUTOMOBILES. MARTIN ANDREW LEACH, Los Angeles, Calif. Filed Mar. 11, 1919. Serial No. 281,992. 4 Claims. (Cl. 293—55.)



1. An attachment for automobiles comprising a luggage supporting platform and a bumper rod rigidly secured to said supporting platform.

1,337,523. PROCESS OF REFINING CRACKED OILS. EUGENE H. LESLIE and CLARENCE BARBRE, Los Angeles, Calif., assignors to General Petroleum Corporation, a Corporation of California. Filed Sept. 13, 1917. Serial No. 191,131. 4 Claims. (Cl. 196—26.)

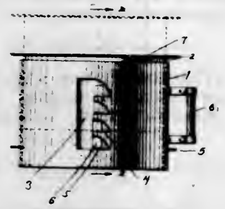


1. Any process of refining cracked oils and producing a synthetic resin which includes heating the oil in the presence of a porous catalyzer; filtering out the catalyzer; and distilling the residue to separate the oil from the resins formed by the process.

1,337,524. COOKING DEVICE. WILLIAM LEVY, Paterson, N. J. Filed Aug. 28, 1919. Serial No. 320,541. 4 Claims. (Cl. 126—215.)

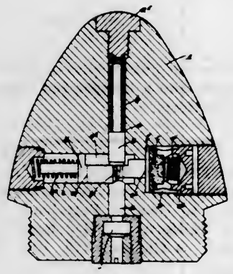
2. A cooking device including two relatively movable members, said members being telescopically arranged,

teeth on one of said members, lugs struck from the other of said members and adapted to engage said teeth, said



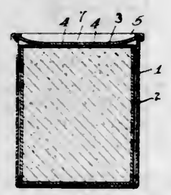
members being provided with alined openings to permit escape of the heated gases, and a grid attached to one of said members.

1,337,525. FIRING MECHANISM FOR SHELLS AND OTHER EXPLOSIVE MISSILES. GEORGE LEONARD MCALPINE, Catford, England, assignor to John J. Griffin & Sons, Limited, Holborn, England. Filed Aug. 21, 1919. Serial No. 318,999. 7 Claims. (Cl. 102—36.)



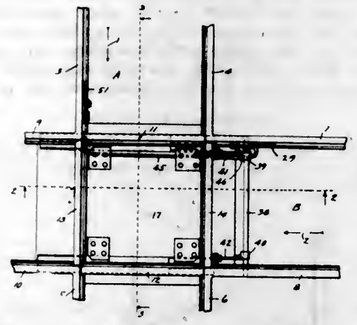
1. Firing mechanism of the kind set forth for shells and other explosive missiles, comprising a spring operated striker, a transversely movable striker retaining member having its retaining face at substantially right angles to the meeting face of the striker so that the latter has no tendency to displace the said member, a soluble member against which the retaining member abuts, a spring pressing the retaining member against the soluble member, and means for admitting a solvent to the said soluble member.

1,337,526. CAN. FRANCIS P. MCCOLL, Ridgewood, N. J., and WALTER W. WILLISON, New York, N. Y., assignors to Thermokept Products Corporation, New York, N. Y., a Corporation of Maine. Original application filed Sept. 1, 1917, Serial No. 189,292. Divided and this application filed July 1, 1918. Serial No. 242,931. 2 Claims. (Cl. 220—44.)



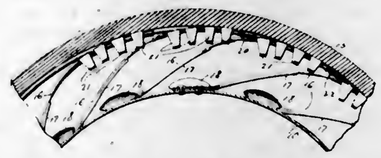
1. An article of manufacture comprising a can having inner and outer containers the inner container having one or more openings, and the outer container having a dished portion sealing said openings.

1,337,527. SILENT RAILWAY-CROSSING. GEORGE C. MELROSE, Redondo Beach, and HERMAN W. MELROSE, Glendale, Calif. Filed May 16, 1919. Serial No. 297,634. 2 Claims. (Cl. 246—375.)



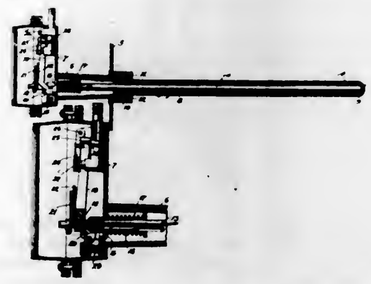
1. A silent railway crossing comprising, in combination with rigid track members forming the angles of the crossing, of vertically movable rail sections adapted, to match with the crossing angles and means whereby the approach of a car will raise the rail sections of its track and lower the rail sections of the cross track, and means whereby the approach of the car on the other track will reverse the operation of the rail sections.

1,337,528. TIRE-FILLER. JAMES H. NORTH, Blackwood, N. J. Filed Oct. 4, 1919. Serial No. 328,480. 6 Claims. (Cl. 152—8.)



4. The combination with a carrier of a plurality of spring plates attached at one end to the carrier and overlapped at their free end portions one upon another, the free end portions being each provided with laterally directed fingers at both sides and being each bent transversely with a resultant longitudinal channel central of its outer surface and a resultant longitudinal bead central of its inner surface and slidably engaging with the channel of the next plate, each plate being reversely curved from its channel to the extremities of its fingers.

1,337,529. THERMOSTAT. ARTHUR J. OTTO, Milwaukee, Wis. Filed Jan. 22, 1916. Serial No. 73,742. 5 Claims. (Cl. 297—14.)



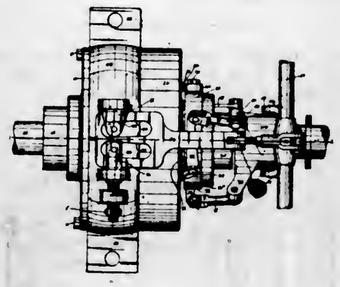
1. A thermostatic couple comprising in combination two mechanically related elements, one of said elements being composed of alundum, and the other of carborundum.

1,337,530. TRACKING DEVICE. ARTHUR A. PAGE, New York, N. Y. Filed Mar. 17, 1917. Serial No. 155,452. 25 Claims. (Cl. 273.)



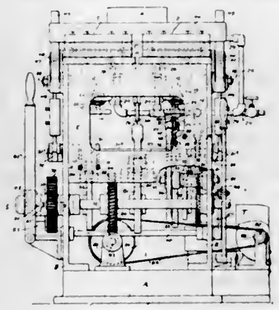
9. A tracking device having means to retain a flexible record sheet in its central position, comprising a driving roll carrying an inclined groove, and another similar roll contiguous to the first mentioned roll and means to drive said rolls in the same direction.

1,337,531. REVERSING MECHANISM. JOSEPH V. PETRELLI, New Haven, Conn., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn., a Corporation of Delaware. Filed July 15, 1919. Serial No. 310,984. 12 Claims. (Cl. 74—34.)



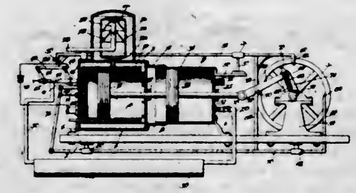
1. A reversing mechanism having a fulcrum internal gear, a driven internal gear, pinions connecting the said internal gears for effecting the reverse rotation of the driven internal gear for the reverse drive, and means for coupling the two gears for the forward drive.

1,337,532. PNEUMATIC SHOE-PRESS. CHARLES J. STUART, New Haven, Conn., assignor to L. Candee & Company, a Corporation of Connecticut. Filed Mar. 27, 1919. Serial No. 285,481. 19 Claims. (Cl. 18—2.)



1. In an apparatus of the kind described, a pressure box, and means for applying pressure to the parts of an unvulcanized shoe held within said box, comprising opposed diaphragms, and means for applying pressure to said diaphragms and for subjecting one diaphragm to an initial pressure greater than the initial pressure to which the second diaphragm is subjected, for the purpose set forth.

1,337,533. POWER-GENERATOR. MILON JAMES TRUMBLE, Alhambra, Calif. Filed June 25, 1917. Serial No. 176,799. 8 Claims. (Cl. 60—46.)



1. The combination with a cylinder, of a piston therein, a water jacket surrounding the cylinder, means for admitting a combustible charge to the rear side of the piston, means for igniting said charge, means for causing the gases of combustion to equalize the pressure on opposite sides of the piston, means for causing the gases of combustion to come into contact with water from said water jacket to produce steam, and means for mixing said steam and gases of combustion and discharging the mixture under pressure.

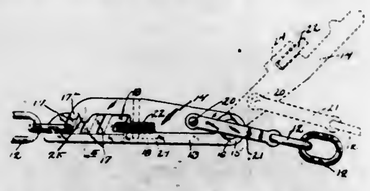
2. The combination with a cylinder, of a water jacket therefor, a piston in said cylinder, means for admitting fuel and air under pressure to the rear side of said piston, means for igniting the charge thus formed, a chamber surrounding said cylinder in open communication with the forward end of said cylinder, means for discharging the gases of combustion from the rear of the piston into said chamber to equalize the pressure on opposite sides of the piston, means for bringing the burned gases into contact with vapor discharged from the jacket, and means for mixing said vapor with the gases of combustion and discharging the mixture.

3. The combination with a cylinder, of a water jacket therefor, a piston in said cylinder, a chamber surrounding said water jacket in open communication with the forward end of said cylinder, means for admitting a combustible charge on one side of the piston, means for igniting said charge, means for discharging the burned gases from the cylinder into said chamber, permitting said gases to communicate their pressure to the other side of the piston, and means for discharging vapor from the water jacket and commingling it with the products of combustion.

4. The combination with a cylinder, of a water jacket therefor, a piston in said cylinder, a chamber surrounding said water jacket in open communication with the forward end of said cylinder, means for admitting a combustible charge on one side of the piston, means for igniting said charge, means for discharging the burned gases from the cylinder into said chamber permitting said gases to equalize the pressure on both sides of the piston, means for discharging vapor from the water jacket into said chamber, a mixing device connected with said chamber, and openings for discharging the vapor and gases of combustion from said chamber to said mixing device.

5. The combination with a cylinder, of a water jacket therefor, a piston in said cylinder, a chamber surrounding said water jacket in open communication with the forward end of said cylinder, means for admitting a combustible charge on one side of the piston, means for igniting said charge, means for discharging the burned gases from the cylinder into said chamber permitting said gases to equalize the pressure on both sides of the piston, means for discharging vapor from the water jacket into said chamber, a mixing device on said cylinder, said device comprising a plurality of cones and a supporting discharge pipe therefor having perforations beneath said cones, means for conveying the vapor and burned gases from said chamber to the mixing device, and means for discharging the mixture from said device.

1,337,534. CHAIN-TIGHTENER DEVICE. LENOARD VERNON UGLOW, Benton, Iowa. Filed Nov. 20, 1919. Serial No. 339,475. 2 Claims. (Cl. 24—68.)



2. In a device of the class described, a base having a slot formed therein, a hinged member mounted on said base, a plurality of notches formed on one end of said base designed to selectively receive one end of a non-skid chain, a link pivoted to said hinged member and adapted to be secured to the free end of a non-skid chain, a hook member formed in said base and adapted to partially overhang said slot, a disk having a notch therein rotatably mounted on said hinged member, a projecting portion formed on said hinged member designed to be received in said slot when the hinged member is in its locking position, to prevent any sidewise movement of said hinged member relative to said base, said disk when in one position will cause the notch in said disk to register with said hook, thereby permitting said disk to pass over said hook member when the hinged member is being swung to locking position, and whereby rotation of said disk after the hinged member is in locking position will cause said notch and hook member to be out of register and thereby lock said hinged member relative to said base.

1,337,535. SOAP-HOLDER. EVERETT K. WOLFE, Westchester, N. Y. Filed Nov. 22, 1918. Serial No. 263,703. 2 Claims. (Cl. 45—28.)

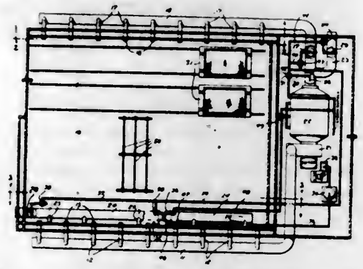


1. A soap holder comprising a body member made of flexible sheet material and having an exposed surface bearing advertising matter, said body member having a middle portion to be rested upon the rail of a bath tub, and a pair of end portions to hang upon opposite sides of said rail, said middle portion being sufficiently rough to support a cake of soap resting thereon.

1,337,536. METHOD AND APPARATUS FOR TREATING RUBBER. ERNEST A. WULLENWEBER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Oct. 5, 1917. Serial No. 194,833. 19 Claims. (Cl. 18—2.)

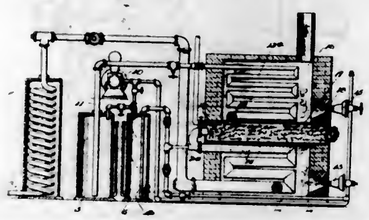
1. That process of drying rubber which consists in maintaining its surface moist while subjecting it to the action of segregated volumes of heated and humidified gas in circulation which volumes are successively removed when excessively humid and replaced by freshly conditioned volumes of gas until the rubber reaches a substantially uniform and nearly dry condition.

17. An apparatus for drying materials including a chamber, means for intermittently circulating gas through the chamber until saturated to a predetermined extent, means for supplying fresh gas intermittently to the chamber and for exhausting gas intermittently from the



chamber, and means controlled by the conditions within the chamber for governing alternative operation of the first two means mentioned and maintaining the humidity and temperature of the gas contained in the chamber within predetermined limits.

1,337,537. METHOD OF PRODUCING GAS. ORESTES U. BEAN, New York, N. Y. Filed Apr. 5, 1919. Serial No. 287,854. 2 Claims. (Cl. 48—202.)



2. The herein described method of producing gas from water and oil, which consists in sustaining by combustion or otherwise of sufficient heat to admit of generating steam from the water, superheating said steam, passing the superheated steam through iron in heated condition to abstract the oxygen and liberate the hydrogen, vaporizing the oil and raising it to approximately the temperature of the hydrogen and adding the same thereto, passing the mixture through a common conduit, and raising the temperature of the mixture to gasification.

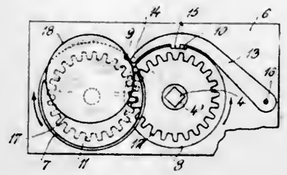
1,337,538. PROCESS OF DESTROYING SCALE AND THE LIKE ON CITRUS TREES. HENRY BLUMENBERG, Los Angeles, Calif. Filed Dec. 26, 1916. Serial No. 138,696. 3 Claims. (Cl. 167—6.)

1. A process of destroying scale and the like on citrus trees, comprising treating the scale-infested trees with a compound consisting of hydrogen and an element of the phosphorus group with the exception of nitrogen and boron.

1,337,539. SAVING-CLOCK. FREDRIK ROSING BULL, Christiania, Norway. Filed June 28, 1917. Serial No. 177,458. 3 Claims. (Cl. 194—61.)

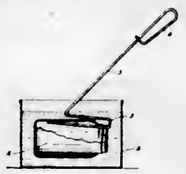
1. Stopping and releasing device for saving-clocks comprising two rotatable notched disks, one being operatively connected with the wind-up of the clock, intermesing gear wheels having a different number of teeth and attached each to one of said disks, a pawl arm, two pawls carried thereby, each pawl being arranged to engage the notch

in one of the said disks, when the latter assume a definite mutually relative position, and a coin-rest so disposed



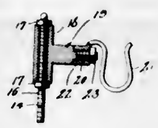
that a coin supported thereby will operate as a medium for transmitting a releasing movement to the said pawl arm.

1,337,540. FRUIT JAR AND BOTTLE LIFTER. ALBERT C. BURLINGAME, Minneapolis, Minn. Filed July 21, 1919. Serial No. 312,168. 1 Claim. (Cl. 65—26.)



A fruit jar or bottle lifter made from a single piece of wire, bent at one end to form a handle and at its other end to form an oblique U-shaped portion, the outer prong of which is adapted to enter the jar or bottle, the outer prong of said U-shaped portion being longer than the inner or the attached prong thereof, and said handle portion being at an acute angle to the prongs of said U-shaped portion.

1,337,541. GARDEN-HOSE HOLDER. WILLIAM W. BURNWATT and GEORGE W. HAUSCHILD, Los Angeles, Calif. Filed Oct. 13, 1917. Serial No. 196,422. 1 Claim. (Cl. 248—29.)



A hose holder comprising a supporting staff, a bracket carried thereby, a stem projecting from said bracket, said stem including a reduced threaded end, said reduced end forming with the stem a shoulder, a hose clamp including a hook and collar, said collar being engaged with the threaded end of the stem and having one end thereof abutting said shoulder, and a nut threaded on said reduced end of the stem and acting to force the collar into binding engagement with the shoulder.

1,337,542. PROCESS OF PRODUCING AN ORE-FLOTATION AGENT. HARLEY CANNON, CLARENCE BARBRE, and EUGENE H. LESLIE, Los Angeles, Calif., assignors to General Petroleum Corporation, a Corporation of California. Filed Oct. 8, 1917. Serial No. 195,453. 2 Claims. (Cl. 252.)

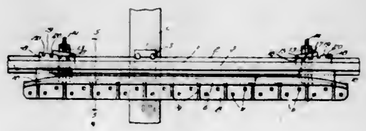
2. A process of producing an ore flotation agent which comprises extracting water from mixtures containing water and petroleum oils, and concentrating said water by evaporation to facilitate shipment.

1,337,543. METALLIC-ARC WELDING. JACK CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,357. 8 Claims. (Cl. 219—8.)

1. An electrode for electric arc welding consisting of a homogeneous alloy of iron together with manganese in excess of 12%.

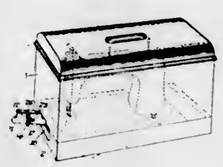
8. The method of electric arc welding which comprises transferring welding metal across an arc from an electrode consisting of an alloy of austenitic steel containing manganese and carbon.

1,337,544. GUARD-RAIL. ARTHUR M. CORNELL, Chicago, Ill. Filed Apr. 23, 1918. Serial No. 230,213. 2 Claims. (Cl. 238—17.)



1. A track guard rail structure comprising the combination of a base plate provided with a plurality of upwardly extending and inclined posts between its ends, and having regularly spaced holes therethrough between the posts, a rail portion carried at the upper ends of said posts with the side face of the rail portion extending beyond the edge of the base plate, the ends of said rail portion turned back over the base plate and provided with a foot guard at each end, said base plate provided with extending parts of suitable length to project under the base portion of the track rail adjacent the top face of the said extending parts below the lower face of the base plate, whereby the same may underlie the track rail, the free end of each extending part extending upwardly and thence back, and each provided with a suitably formed face, and a coöperating member for each extending part of a size to engage said face and the web and base flange at the outer side of the track rail.

1,337,545. LOCKING MECHANISM. HENRY W. CORNING, Cleveland, Ohio. Filed Jan. 27, 1920. Serial No. 354,453. 10 Claims. (Cl. 45—120.)

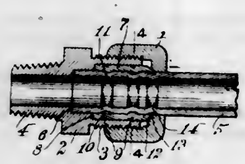


1. In combination, a cabinet comprising two main sections each having latching means and one being provided with an opening, a movable closure for said opening, and a latch member for connection with the latching means of the cabinet sections to fasten the latter together, said latch member being attached to the movable closure to be carried thereby to and from its operative latching position.

1,337,546. OIL AND SOAP SOLUTION. JUDSON A. DE CEW, Montreal, Quebec, Canada. Filed May 17, 1918. Serial No. 235,137. 2 Claims. (Cl. 252.)

1. A stable product for the purpose specified, consisting of a dilute solution of oil held in colloidal solution by means of a highly dilute soap.

1,337,547. COUPLING FOR TUBING. JOHN H. DOHNER, Dayton, Ohio. Filed Nov. 24, 1919. Serial No. 340,140. 1 Claim. (Cl. 285—126.)

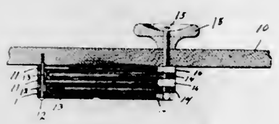


In a coupling for uniting tubing of ductile metal, the combination of coupling members having a screw-threaded engagement, one of said members having a tapered surface surrounding the tube opening, a compression sleeve of uniform internal diameter and having outer circumferential grooves and a tapered end inclosed within said coupling members, the tapered end engaging the tapered surface of one of said coupling members, said compression sleeve being adapted to embed itself in tubing at the points of said grooves and at the tapered end, when longitudinal force is exerted in said sleeve by the coupling members.

1,337,548. CONCENTRATION OF ORES. EDWIN EDSER, Brockley, London, and STANLEY TUCKER, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Filed July 3, 1918. Serial No. 243,175. 6 Claims. (Cl. 83—85.)

1. The process of differentially separating certain metalliferous particles from other metalliferous particles, which consists in adding the mixed particles to water to form a pulp, aerating the pulp in the presence of a small proportion of sodium silicate and a sufficient quantity of a soluble soap to produce a froth selectively bearing the first said metalliferous particles, and separating the froth.

1,337,549. CONDENSER. ROBERT J. FITZGERALD, New York, N. Y., assignor of one-half to J. Arthur Fischer, New York, N. Y. Filed Nov. 4, 1919. Serial No. 335,774. 1 Claim. (Cl. 250—41.)



An electric condenser including a plurality of stationary conducting plates and a plurality of interposed movable plates connected together and movable in their own planes into and out of position between said stationary plates, each plate having a non-conducting film or coating deposited on both sides thereof to inclose the plate, the coating of each movable plate being spaced from the coating of the adjacent stationary plate by thin air spaces.

1,337,550. WRENCH. DOMENICO FORNIRASEO, Klamath Falls, Oreg. Filed Mar. 21, 1919. Serial No. 284,102. 4 Claims. (Cl. 81—136.)

1. In a wrench, a shank having a groove and a fixed jaw, a sliding jaw having a tongue operating in the groove and means for locking the sliding jaw against movement, in one direction, said means consisting of a cam, said tongue being in the form of a T-rail, said groove conforming thereto, and extending into the shank to form a pocket for said cam, said cam being spring pressed, a lever controlling the cam, means for limiting the movement of the



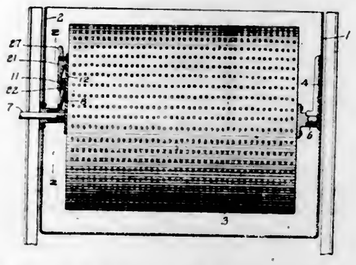
sliding jaw, said sliding jaw operating on an inclined plane, said tongue extending to form a shank for the sliding jaw, said last means being formed on said cam.

1,337,551. PROCESS OF MAKING PISTON-RINGS. HARRY S. FRANK, St. Louis, Mo. Filed Dec. 7, 1918. Serial No. 265,722. 7 Claims. (Cl. 29—156.1.)



1. The process of manufacturing piston rings, which consists in changing the shape of a spiral element to form an inner band and an outer band encircling the inner band; and heating the element until the tension of the metal is changed and set in the changed shape.

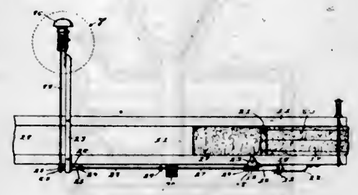
1,337,552. DRIVING CONNECTION TO WASHING-MACHINE CYLINDERS. GEORGE F. FREED, Ben Avon, Pa., assignor to Pittsburgh Gage & Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1919. Serial No. 284,550. 5 Claims. (Cl. 68—18.)



1. In a washing machine, the combination with a tub, of a cylinder therein, detachable bearings at one end of the cylinder and tub, an operating shaft extending through the opposite end of the tub, a driving arm on the inner end of said shaft, and a clutch member on the adjacent end of the cylinder including a socket open radially of the cylinder to receive said driving arm, and spring actuated means to automatically lock said arm to said clutch member.

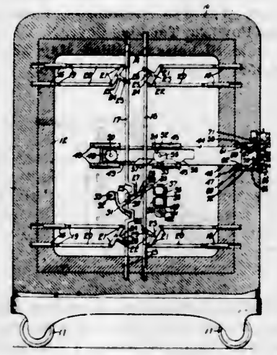
1,337,553. INDICATOR FOR HAY-PRESSES. EDWARD GERARDY, Chandler, Okla. Filed May 14, 1917. Serial No. 168,398. 2 Claims. (Cl. 116—31.)

1. In a hay press, the combination with a press box having an opening in one side thereof, of a frame movable toward and away from the box, a bale engaging wheel carried by the frame and adapted to be moved through the opening of the box into engagement with a bale so as to



be rotated by the bale as the latter is moved through the box, a shaft journaled upon the box and operatively connected to the wheel on the movable frame, and indicating means actuated by the shaft.

1,337,554. SAFE-LOCK. WILLIAM J. B. HARRIS, Bonham, Tex. Filed June 13, 1918. Serial No. 239,853. 4 Claims. (Cl. 109—3.)



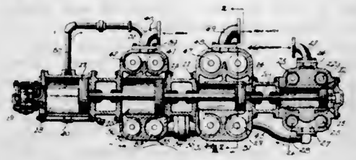
1. The combination with a door having groups of adjacent perforations in several edges, a frame having sockets registering with the perforations of the door, a pair of bolts for each group having their extremities inserted through the perforations and normally substantially flush with the edge of the door, and connected means adapted to slide the bolts of each pair longitudinally one into one of the sockets and the other within the door structure.

1,337,555. AUTOMOBILE ATTACHMENT. RALPH W. HARRIS, Newark, Ohio. Filed July 25, 1919. Serial No. 313,270. 3 Claims. (Cl. 123—174.)



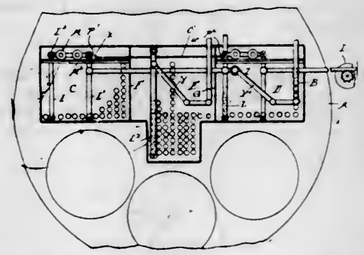
1. In combination with a carbureter and water cooling system of an internal combustion engine, a boiler adapted to receive water from the cooling system, a jacket positioned on the carbureter and adapted to heat the carbureter, said jacket being in communication with the boiler, a burner disposed under the boiler, a circular guard depending from the lower edge of the boiler, said guard adapted to substantially house the burner.

1,337,556. FEED-WATER HEATER AND EXHAUST-STEAM CONSERVER. WILLIAM T. HARRIS, Charlottesville, Va. Filed Aug. 16, 1919. Serial No. 317,964. 6 Claims. (Cl. 103—61.)



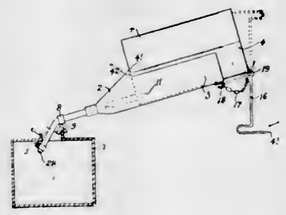
4. A feed water heater and exhaust steam conserver comprising a water cylinder, a steam compression cylinder, a cylinder for receiving a forwarding combined and condensed steam and water, all of said cylinders being in axial alinement, a common piston rod extending through the several cylinders, pistons mounted rigidly upon the piston rod, valves positioned to control the flow of water through the water valves positioned to control the flow of steam through the steam cylinder, valves positioned to control the flow of combined steam and water through the combined cylinder, and means to reciprocate the piston rod.

1,337,557. BOILER-TUBE CLEANER. SAMUEL J. HERMAN and CHESTER M. MACKENZIE, Detroit, Mich., assignors to Diamond Power Specialty Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 12, 1916. Serial No. 90,580. 2 Claims. (Cl. 122—391.)



1. The combination with vertically arranged rows of boiler tubes, plates dividing said tubes into a plurality of compartments of unequal size, blower pipes for cleaning the tubes of said compartments and means for alining said blower pipes with the rows of boiler tubes, said means comprising mechanism adapted to move the blower pipes in one of the compartments a predetermined amount before causing any movement of the blower pipes in one of the other compartments to thus compensate for the difference in the size of the compartments.

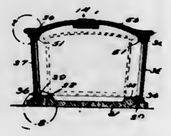
1,337,558. CONTAINER-PIERCING AND TANK-FILLING MACHINE. ALBERT EDWARD KING, Wanganui, New Zealand. Filed Sept. 12, 1919. Serial No. 323,441. 4 Claims. (Cl. 226—93.)



1. In a device of the kind described, a tank filling tube adapted to project into and rest underneath the neck

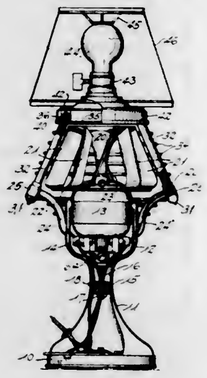
of the tank; means on said filling tube for supporting said tube and holding the same steady in a sloping position upon the neck; a funnel into which said tube projects fixed to and supported by said tube; a V shaped extension to said funnel for receiving and supporting a container in an angular position, one of the longitudinal corners of said container resting in the apex of the V shaped extension; and means located in said extension for piercing said container, said extension being adapted to guide the container while the same is slid and pressed against the said piercing means.

1,337,559. BURIAL-VAULT. HERBERT M. KNIGHT, Rome, N. Y. Filed Mar. 1, 1915. Serial No. 11,347. 4 Claims. (Cl. 72—7.)



2. In a burial vault, a base provided with upstanding ribs adjacent some of its edges, and depressions adjacent others of its edges, upright members, means to secure some of its upright members to the upstanding ribs, others of said upright members being provided with elongated lower ends proportioned to be cemented in the depressions.

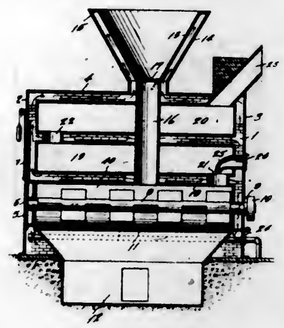
1,337,560. VENTILATOR-FAN. MILTON M. KOHN, New York, N. Y., assignor to The Ventilator Fan Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 19, 1918. Serial No. 223,387. 18 Claims. (Cl. 230—1.)



2. In an apparatus of the class described, a frame, an air current producer, a guard member and conducting devices by which the said guard member is mechanically connected to the said frame.

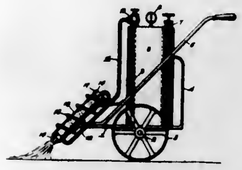
1,337,561. APPARATUS FOR PRODUCING SULFUR DIOXID. HORACE K. LYON, Tulsa, Okla. Filed July 17, 1919. Serial No. 311,429. 6 Claims. (Cl. 23—1.)

1. In a furnace for producing sulfur dioxid direct from ore, a fire box, means for artificially heating the fire box to ignite the ore, the fire box having an air inlet, means above the fire box for preheating the ore and supplying the same to the box, and a heating chamber also above



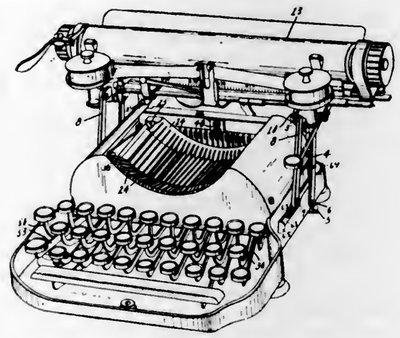
the fire box communicating therewith, said heating chamber being separate from the preheating means.

1,337,562. WEED-DESTROYER AND GROUND-STERILIZER. JOHN WEBSTER NICHOLSON, Pasadena, Calif., and CHARLES FOWLER, Tomkins Cove, N. Y.; said Fowler assignor to said Nicholson. Filed May 27, 1919. Serial No. 300,058. 4 Claims. (Cl. 111—6.)



3. A device of the character described comprising a wheeled frame, a fuel tank mounted upon the frame, a torch tube mounted upon the frame, a feed pipe, a vaporizing coil connected with the feed pipe and torch tube, an extension tube adapted to be detachably mounted upon the torch tube, and a plow or shovel carried by the extension tube for opening up the earth in advance of the torch tube.

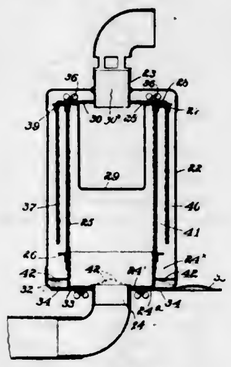
1,337,563. TYPEWRITING-MACHINE. HENRY P. NORDMARK, Grand Rapids, Mich., assignor to Fox Typewriter Co., Grand Rapids, Mich. Filed Dec. 26, 1917. Serial No. 208,774. 21 Claims. (Cl. 197—22.)



10. In a typewriting machine, the combination with the main frame, of a type bar segment in said frame, a

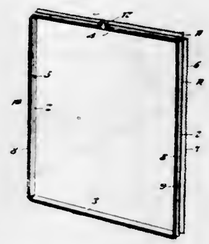
carriage support having ways therein, a carriage with platen devices mounted thereon, means of feeding the said carriage, inking devices associated with the type bars and platen, a pair of supporting arms pivoted to the sides of said frame and extending upwardly with pivotal connections to the said carriage support, a connecting bar between said supporting arms disposed below the said frame, and means for locking the support in elevated position.

1,337,564. AIR-STRAINER. FREDERICK STRATTNER OREM, Baltimore, Md. Filed Dec. 14, 1917. Serial No. 207,190. 6 Claims. (Cl. 183—65.)



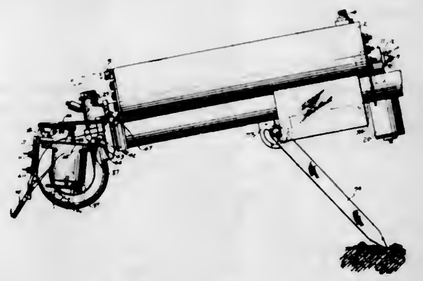
5. In combination a casing having heads with an air inlet at one head and an outlet at its other head coaxially arranged in respect to each other and the casing, an upstanding flange coaxially arranged in respect to the casing and surrounding the outlet, a perforated cylinder supported by said flange, filtering material held on the outer side of the said cylinder, a head on the free end of said cylinder spaced apart from the head, of the casing, a cup member coaxially arranged in respect to the casing and perforated cylinder and mounted on the head of the latter with its open end opposite the inlet, a baffle cylinder coaxially arranged with and between the walls of the casing, and said perforated cylinder, the lower head having openings for clearing the space between the annular internal flange and the wall of the casing and means for controlling said openings.

1,337,565. PANE-FASTENER. JOHN G. PARKINS, Rorer, W. Va. Filed Aug. 24, 1918. Serial No. 251,272. 3 Claims. (Cl. 20—56.4.)



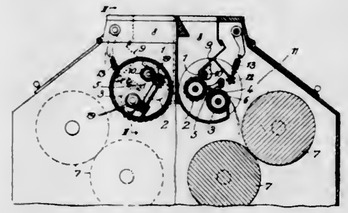
3. In combination with a plurality of pane fasteners each formed as a rectangular frame having one side severed to provide meeting ends, said meeting ends being provided with overlapping lugs, a fastening bar arranged between said ends of all the pane fasteners in two adjacent rows and provided in its edges with grooves slidably engaging said lugs whereby to prevent separation thereof.

1,337,566. FLASH-GUN. RAYMOND C. PIERCE, Hornell, N. Y. Filed Oct. 31, 1919. Serial No. 334,792. 13 Claims. (Cl. 89—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



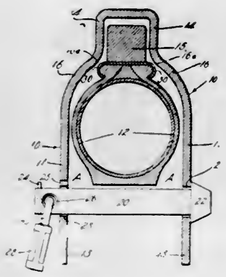
1. In a flash-gun, sources of flash-producing materials, an ignition chamber having a discharge orifice, an igniter, and means to force an ingredient of a charge of said materials through the chamber to expel the ignited charge therefrom.

1,337,567. FEEDING DEVICE FOR GRINDING CYLINDER-MILLS. ERNST ROTH, Nieder-Uzwil, Switzerland. Filed Mar. 4, 1919. Serial No. 280,516. 1 Claim. (Cl. 83—44.)



In a feed mechanism for grinding mills, a ribbed roll, an auxiliary roll coöperating therewith to permit the material to pass between them, an adjustable bridge receiving material from said ribbed roll, a discharge roll at the lower end of said bridge, and driving mechanism for driving said rolls, whereby the auxiliary roll will be rotated slower and the discharge roll faster than the ribbed roll.

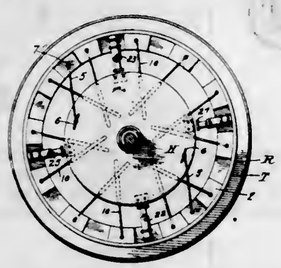
1,337,568. AUTOMOBILE LOCK AND TRACTION DEVICE. S. Q. SHANNON, Pasadena, and HERMAN P. RANDALL, Los Angeles, Calif.; said Randall assignor to said Shannon. Filed Feb. 14, 1918. Serial No. 217,081. 3 Claims. (Cl. 70—90.)



3. A device of the character described, embodying a substantially U-shaped body made of flat bar metal shaped

to fit around the felly and tire of a wheel, fitting the sectional contour of the tire and felly to prevent displacement of the body, the body projecting its two spaced ends outwardly on opposite sides of the tire a substantial distance beyond the tire tread, each end part having an aperture, and a transverse bolt extending across the tire tread and through said apertures.

1,337,569. SPRING-WHEEL. GEORGE W. SHROPSHIRE, Branch, and THOMAS B. SHROPSHIRE, Peterpender, Ark. Filed May 7, 1919. Serial No. 295,279. 4 Claims. (Cl. 152—47.)



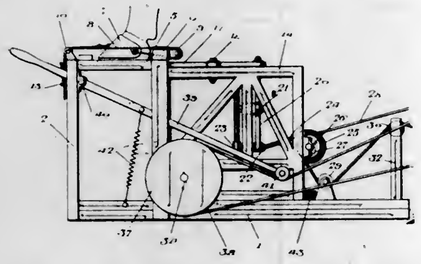
1. The combination with a hub and rim, of barrels carried by the rim, springs arranged in said barrels, plungers carried by said barrels and engaged by said springs, stop elements carried by the hub, and yieldable spokes normally retaining said plungers in spaced relation to said stop elements.

1,337,570. TOY. CHARLES SHUBRICK SIMMONS, Norfolk, Va. Filed Mar. 8, 1919. Serial No. 281,399. 12 Claims. (Cl. 46—61.)



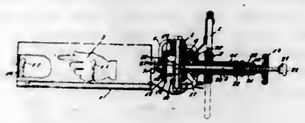
3. A toy comprising a projectile discharging device, a collapsible member movable in the direction of said device, and means in the path of movement of the said member for actuating the said device to discharge its projectile in the direction of the said collapsible member.

1,337,571. HOOF-TRIMMING MACHINE. SAMUEL J. STOKES, Kansas City, Mo. Filed Sept. 3, 1919. Serial No. 321,404. 4 Claims. (Cl. 168—48.)



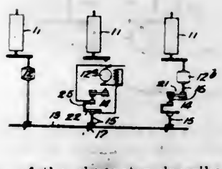
1. A hoof trimming machine comprising means for holding a hoof, a carriage movable relatively to said means, and a trimming knife carried by said carriage and movable relatively to said carriage during the movement of the carriage.

1,337,572. AUTOMOBILE-SIGNAL. WILLIAM G. THOMAS, West Pittston, Pa. Filed Apr. 2, 1919. Serial No. 286,937. 2 Claims. (Cl. 116—46.)



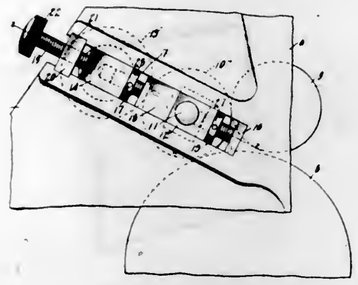
1. The combination with a supporting structure, of an indicating member mounted to swing laterally relative thereto, a shaft mounted to slide and rotate relative to the supporting structure, means operated by the rotation of the shaft when slid to one extreme position, for swinging the member laterally to direction indicating positions, and means operated by the rotation of the shaft when slid to its other extreme position, for tilting the member about its longitudinal axis.

1,337,573. CONTROLLING MEANS FOR ELECTRIC MOTORS. FRANK GREAVES WARBURTON, Manchester, England. Filed Nov. 27, 1916. Serial No. 133,685. 8 Claims. (Cl. 171—229.)



4. In a device of the character described, the combination with first and second motors, of a resistance in series with the field of the second motor, a rotary commutator driven by one of the motors having the contacts thereof connected to various points of said resistance, and a rotary brush driven by the other motor positioned to travel over the commutator contacts and a speed changing device connected between one of the motors and the element driven by it.

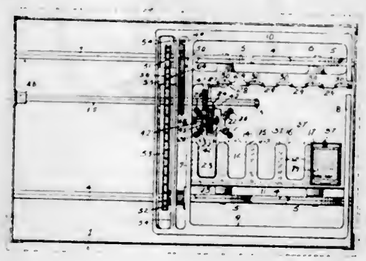
1,337,574. ROLLER ADJUSTMENT FOR PRINTING-PRESSES. SIDNEY M. WEATHERLY and HOWARD J. STACH, Hartford, Conn.; said Stach assignor of his entire right to National Machine Company, Hartford, Conn., a Corporation. Filed Aug. 30, 1917. Serial No. 188,992. 6 Claims. (Cl. 101—348.)



2. In a journal bearing the combination of a frame having guide-ways, a pair of journal members mounted in said guide-ways, screws carried by said journal members for adjustably positioning the same, a second pair of journal members mounted in said guide-ways, screws carried by said second pair of journal members engaging

with the first named pair of journal members for adjustably positioning said second journal members, said journal bearing adjusting means located wholly within said guide-ways, and devices engaging said second journal members for tensioning both pairs of journal members, substantially as set forth.

1,337,575. ACCOUNTING AND RECORDING APPARATUS. JOSEPH V. WECKBAUGH, New York, N. Y. Filed Feb. 3, 1913, Serial No. 745,775. Renewed July 18, 1919. Serial No. 311,902. 19 Claims. (Cl. 45—2.)



4. An index, a device registrable with any indication thereon, a drawer casing, a series of drawers therein, means for locking each drawer in the casing, a casing into which the drawer casing may enter, means controlled by the said device for moving the drawer casing into the other casing and any drawer corresponding to the selected indication in line with a discharge opening in the latter casing, and means for releasing the locking means of any drawer in line with the said opening.

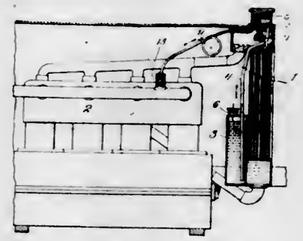
5. A carriage, a series of casings supported thereon and arranged in a line parallel with the travel of the carriage, an elevator normally below the drawer casings and having travel longitudinally of the casings, a series of movable devices in each casing, an index of the movable devices, having indications arranged to correspond to the arrangement of the casings and the said devices, an actuator movable to any position corresponding to any indication on the index, and connections for causing the movements of the actuator to move the carriage so that the casing containing the selected movable device shall be above the elevator, and for causing the elevator to move the casing a distance corresponding to the position of the said device in the casing.

9. A casing top having a main slot and a plurality of slots branching therefrom, a frame supported by links, the frame having a member parallel to each branch slot, a series of movable elements, an index of the movable elements arranged along the branch slots, a locking means for each element, arranged to be released by the said frame when swung on its links, a pivoted handle movable along the said slots, and a finger on the handle arranged to engage the adjacent frame member and move the frame when the handle is swung on its pivot.

14. In a machine of the class described: in combination; a plurality of groups of check receptacles; movable means for selecting one receptacle from a previously selected group; and means for thereafter positioning the said receptacle to receive a check.

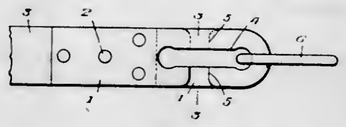
19. In a machine of the class described in combination: a table having a series of slots therein; and indices adjacent thereto; a variably positionable manipulative member movable in the said slots adjacent the indices; a group of check receptacles; and operating devices associated with the said member for moving the group of receptacles to thereby select one receptacle therefrom corresponding to the particular graduation of the index adjacent the variably set member; means associated with the variably set member to release the said selected receptacle; and means to thereafter move the said selected receptacle to a position to receive a check.

1,337,576. RADIATOR. ELLING O. WEEKS, Detroit, Mich. Filed Feb. 24, 1919. Serial No. 278,612. 2 Claims. (Cl. 123—174.)



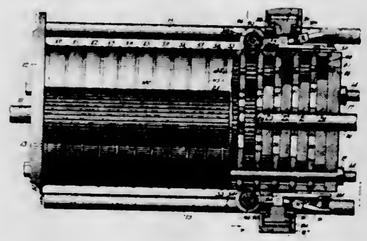
2. A device of the class described, comprising an air-tight radiator, a tank, a pipe connecting the radiator with the tank, a float chamber in said radiator, means for connecting the same with the inlet manifold of the motor, a valve controlling said connection and a float in said chamber connected with said valve.

1,337,577. COUPLING OR SNAP. HENRY G. WERNIMONT, Washington, D. C. Filed Jan. 16, 1919. Serial No. 271,389. 1 Claim. (Cl. 24—231.)



A coupling for the engagement of a ring, comprising spaced parallel plates having coinciding longitudinal slots for receiving a ring, each plate having a transverse slot extending at right angles from the longitudinal slot to one side edge of the plate, the two transverse slots of the plates being opposite to one another and in transverse alinement, and said slots being located midway between the ends of the longitudinal slots, and the ends of the longitudinal slots all being closed and terminating beyond the transverse slots between the edges of the plates, so that the ring can be moved to either end of the longitudinal slots without detachment, thereby requiring the ring and plates to be held in a fixed relative longitudinal position with the ring midway between the ends of the longitudinal slots for attaching or detaching the plates and ring by a lateral movement.

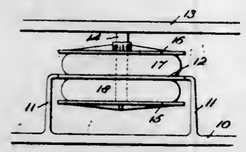
1,337,578. VARIABLE-SPEED-TRANSMISSION MECHANISM. HERBERT G. ALTVATER, Denver, Colo. Filed Oct. 29, 1918. Serial No. 260,206. 12 Claims. (Cl. 74—34.)



1. In a variable speed transmission mechanism, a drive shaft, a plurality of wheels arranged one alongside the other and having a common axis coinciding with that of the said drive shaft, the wheels being of the same

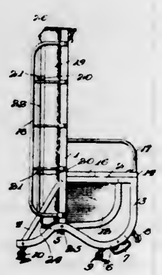
diameter to form approximately cylindrical structures, independent means connecting the said shaft with each of the wheels to rotate the wheels simultaneously at different speeds, and power transmitting means adapted to engage the peripheral face of any one of the said wheels to drive the said power transmitting means.

1,337,579. SHOCK-ABSORBER FOR VEHICLES. WILLIAM N. AMORY, New York, N. Y. Filed June 5, 1918. Serial No. 238,250. 4 Claims. (Cl. 267—65.)



1. A shock absorbing unit between the upper and lower members of a vehicle, comprising two outer abutments fixed to one member, a middle abutment located between said outer abutments, a horizontally distendible pneumatic cushion having resilient walls and placed between the upper and middle abutments, and a similar cushion, also horizontally distendible placed between the lower and middle abutments.

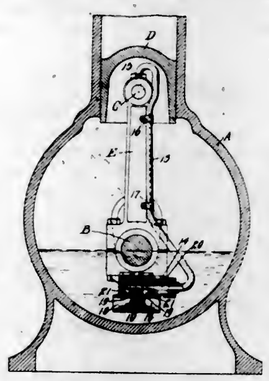
1,337,580. BED. CLARENCE R. BALL, Washington, D. C. Filed Mar. 1, 1919. Serial No. 280,126. 2 Claims. (Cl. 5—47.)



1. A bed including a bed bottom, end frames each comprising an ogee shaped bar secured at one end to an end bar of the bed bottom and extending therefrom in a plane at a right angle to the plane of the bed bottom and then returning to the bed bottom and secured to the adjacent extremity of the end bar of the same and extending beyond said extremity, a brace connecting the free extremity of said ogee shaped bar to the bed bottom, a caster at the free extremity of said ogee shaped bar, a caster carried by said bar to coöperate with the first-named caster in supporting the bed in a raised position, said casters being disposed at opposite sides of the plane of the bed bottom, another caster carried by the ogee shaped bar to aid in supporting the bed in lowered position, and a foldable support at the free side of the bed to coöperate with the last-named caster.

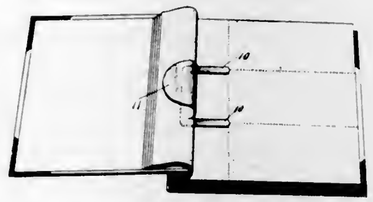
1,337,581. OIL-PUMP. SAMUEL C. BARNES, Williamsport, Md., assignor to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed June 2, 1919. Serial No. 301,340. 2 Claims. (Cl. 184—11.)

2. The combination with a crank casing, a connecting rod and a wrist-pin bearing, of a chamber carried at the lower end of the connecting rod having oppositely directed independently valved oil intakes communicating therewith,



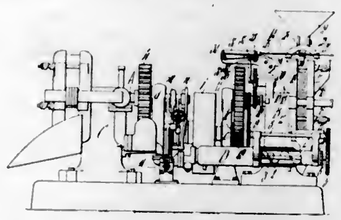
and a conduit leading from the chamber to the wrist-pin bearing.

1,337,582. BOOK-HOLDING DEVICE. DAVID REDMOND BARRY, Beaumont, Tex. Filed Nov. 1, 1919. Serial No. 335,137. 3 Claims. (Cl. 281—42.)



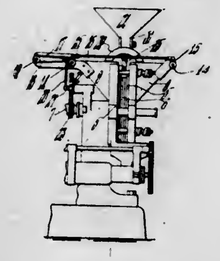
1. A book-leaf holder comprising spaced strips and an arcuate tongue between the strips and tangental to the plane thereof.

1,337,583. REDUCING AND REFINING APPARATUS. ALONZO LINTON BAUSMAN, Chicopee, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 8, 1919. Serial No. 281,515. 7 Claims. (Cl. 83—8.)



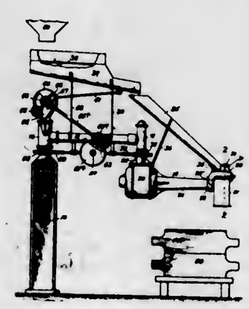
1. The combination with apparatus for reducing cocoa nibs or the like to the condition of a coarse liquor, of an apparatus for refining such liquor and including a measuring feed pump by which the liquor is forced to the refiner, and a combined churning and conveying means to which the coarse liquor from the reducing apparatus is automatically supplied and by which such liquor is automatically mixed and rendered sufficiently fluid to enter said pump.

1,337,584. FEEDING APPARATUS. ALONZO LINTON BAUSMAN, Chicopee, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Original application filed Mar. 8, 1919, Serial No. 281,515. Divided and this application filed July 19, 1919. Serial No. 312,048. 4 Claims. (Cl. 83—8.)



1. In apparatus of the class described, two members having reducing surfaces on their adjacent faces, an element intermediate said members and having reducing surfaces on each face to coöperate with the first-named faces in reducing material fed therebetween, spaced hoppers from which material is supplied between the reducing faces of said element and members, and an oscillatory measuring hopper to supply measured charges of material alternately to the first-named hoppers.

1,337,585. MOLDING-MACHINE. ELMER O. BEARDSLEY, Chicago, and WALTER F. PIPER, Oak Park, Ill. Filed June 28, 1919. Serial No. 307,319. 14 Claims. (Cl. 22—36.)



1. In a molding machine, the combination of a projector for the mold-material, mechanism for driving the projector, means to movably support the projector and mechanism for automatically controlling the path of movement of the projector over a flask.

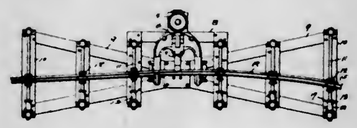
1,337,586. PRICE-TAG. SINGLETON B. BEDINGER, Terrell, Tex. Filed Sept. 13, 1919. Serial No. 323,479. 1 Claim. (Cl. 40—2.)

A tag of the character described embodying a sheet folded upon itself for forming two leaves adapted to be arranged in close relation, said levers having corresponding ends secured together and their opposite ends separate, said leaves having their surfaces near said opposite ends coated with a blackboard material, a second sheet folded upon itself for providing panels which are arranged upon the outer surfaces of said leaves near the ends thereof which are secured together, and secured to said leaves, one panel having printed thereon the price of the article and the other panel having printed thereon in inverse relation the stock data, and a tab arranged between the separate ends of the first named leaves and



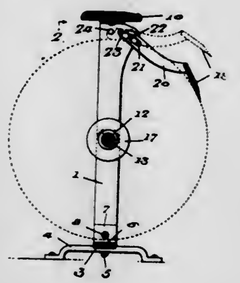
secured thereto and adapted to support the tag in a manner whereby it may be readily inverted.

1,337,587. RAIL-BENDER. ELLWOOD F. BENNETT, Sayre, Pa. Filed Sept. 5, 1918. Serial No. 252,727. 2 Claims. (Cl. 153—48.)



1. In a rail bending mechanism, the combination with a central frame and its lateral extensions, of a bending yoke secured to the frame and having two projecting, upwardly extending jaws having each an inwardly projecting flange, a plunger supported above the yoke and acting between the jaws, vertically adjustable rail supporting rollers on the yoke adjacent the jaws, other rollers journaled on the frame and its extensions having lateral movement transversely to the rail, and elongated shafts for supporting these latter rollers.

1,337,588. WRAPPING-PAPER HOLDER AND CUTTER. DAVID CHAPMAN BROOKS, Van, W. Va. Filed June 18, 1919. Serial No. 305,070. 1 Claim. (Cl. 211—32.)



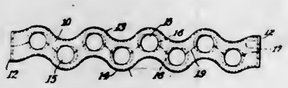
A paper holder embodying a frame, means for supporting a roll of paper therein, and a cutter blade having supporting arms provided with longitudinal slots near one end, said frame having studs within said slots permitting the blade to slide away from the frame and swing downwardly against the roll, and the frame having studs beyond said ends of the arms under which said arms are movable when raised and slid toward the frame, said ends of the arms having notches to receive the last named studs, so as to support the cutter blade in raised position.

1,337,589. SPRAYING ATTACHMENT. JOSEPH W. BURBANK, Albany, N. Y. Filed May 13, 1919. Serial No. 296,761. 2 Claims. (Cl. 299—121.)



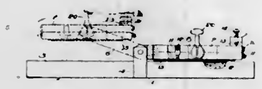
1. A spraying attachment comprising a sieve, a single piece of wire spirally coiled and receiving the sieve between adjacent spirals of said coil, means for holding the approximately parallel spirals of said coil together to clamp said sieve, and an arm of said wire extending from said sieve and bent to form jaws adapted to clamp the nozzle of a hose.

1,337,590. HEADER FOR TUBULAR BOILERS. JOHN J. CAIN, Bayonne, N. J. Filed Apr. 30, 1918. Serial No. 231,663. 4 Claims. (Cl. 122—360.)



1. A header for tubulnr boilers, composed of two trough-like vessels with thickened side and end walls and placed together with the edges of the side and end walls adjacent, said edges being securely connected at intervals throughout their lengths by a welding process, and having holes through the welded sides at the spaces between the welded intervals.

1,337,591. HAND STAMPING DEVICE. ERNEST G. CLARK, De Kalb, Ill., assignor to The Q R S Music Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1919. Serial No. 314,392. 6 Claims. (Cl. 101—301.)



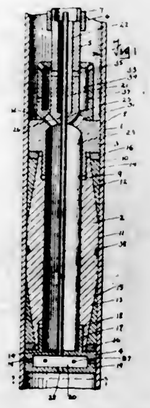
1. A device for the purpose indicated, comprising in combination with a radius member pivoted for swinging through an arc for carrying a printing stamp from an inking pad to a printing position, a printing stamp holder pivoted at the free end of said radius member, said member and said holder having coöperating stops positioned for coming into collision at the printing limit of said swing.

1,337,592. WRAPPER FOR PACKING ELECTRIC-LIGHT BULBS. JAMES E. CLENNY, New York, N. Y., and GEORGE S. WRIGHT, La Grange, Ill., assignors to Sefton Manufacturing Corporation, Chicago, Ill., a Corporation of New York. Filed Aug. 28, 1919. Serial No. 320,329. 5 Claims. (Cl. 217—29.)



1. A wrapper for electric light bulbs consisting of a tube of corrugated board comprising a main portion and a collar portion permanently attached together upon a weakened fold line.

1,337,593. PLUNGER FOR DEEP-WELL PUMPS. WILLIAM J. COULSON, Houston, Tex. Filed Aug. 12, 1919. Serial No. 317,051. 7 Claims. (Cl. 103—80.)

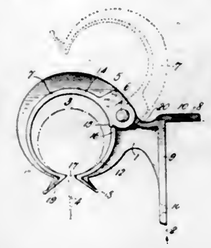


5. In a pump, the combination of a working barrel, a plunger therein, a hollow sucker rod on said plunger, a spraying member on the lower end of said plunger comprising a nipple threaded within the lower end thereof, a longitudinal chamber on said nipple, passages leading from said chamber in lateral and downward directions and means connecting said sucker rod and said chamber to furnish flushing fluid to said chamber.

1,337,594. SUPPORT FOR CURTAIN-POLES AND THE LIKE. ROBERT G. CROSBIE, Hawthorn, Victoria, Australia. Filed Aug. 2, 1918. Serial No. 248,062. 4 Claims. (Cl. 156—24.)

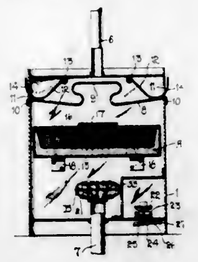
1. A curtain or like pole supporting bracket formed of two parts pivotally connected together, a lug integral with one member of said bracket and having a member with a horizontal portion extending opposite to the bracket part and a vertical portion both adapted for fixture to a frame, an opening between the free ends of said bracket parts, and said brackets having a flaring portion at the entrance to said opening for the purpose specified.

3. A curtain or like pole supporting bracket formed of two parts pivotally connected together, means on said bracket adapted for fixture to a frame, an opening between the free ends of said bracket parts, and a flared



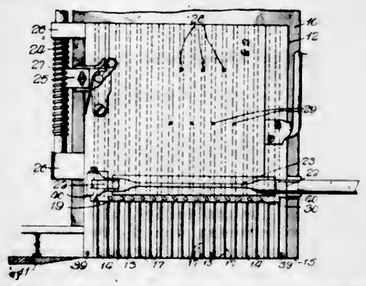
entrance to said opening, said movable bracket part having its center of gravity so situated that said movable part automatically remains in either its extreme open position or in its extreme closed position when so placed, substantially as described.

1,337,595. CISTERN-FILTER. REZIN H. CUMMINGS, Topeka, Kans. Filed Apr. 5, 1919. Serial No. 287,781. 3 Claims. (Cl. 210—4.)



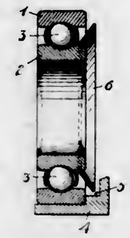
1. In a cistern filter, a casing provided with an opening at its top for the entrance thereto of water from a downspout, a horizontal reticulated screening body disposed immediately beneath said opening and bent downward at both ends and thence inclined upward to the sides of the casing, said inclined portions receiving the debris from the water issuing through the opening at the top of the casing.

1,337,596. SLICING-MACHINE. ALFRED M. DEMUTH, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,558. 14 Claims. (Cl. 17—24.)



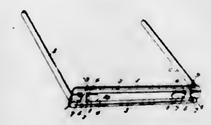
1. A slicing machine embodying an article support, a cutter, said support and cutter being reciprocable relatively one with relation to the other, and means for intermittently advancing the article upon the support, the said means embodying superposed relatively movable plates, the adjacent faces of the plates having interengaging grooves and projections.

1,337,597. OILING AND PROTECTING MEANS FOR BALL-BEARINGS, &C. DANIEL JOSEPH GILBERT, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 16, 1919. Serial No. 324,269. 2 Claims. (Cl. 64—24.)



2. In a ball bearing, two bearing rings having complementary grooved faces with balls therebetween to hold said rings against separation, an annular dished plate secured to the inner ring, the outside diameter of said plate being greater than the inside diameter of the outer ring and arranged to dip into an oil pocket at the side of said bearing to pick up oil and convey it inwardly into said bearing to lubricate the balls and race-way grooves.

1,337,598. PAPER-FASTENER. JAMES W. GRANT, Bridgeport, Conn., assignor to Fred J. Klein, Long Island City, N. Y. Filed Sept. 26, 1916, Serial No. 122,199. Renewed Sept. 22, 1919. Serial No. 325,525. 15 Claims. (Cl. 24—153.)



1. A three piece paper fastener comprising a base member, and two tongue members, spaced apart, one near each end of the base member, separate therefrom and from each other, each tongue member positively secured near its own end to the respective end portion of the base member.

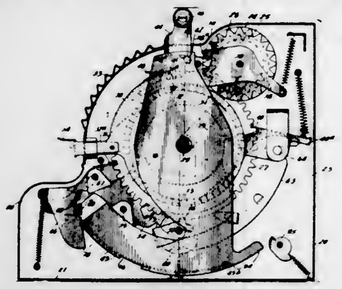
10. A paper fastener comprising a base having two longitudinal ridges and a longitudinal groove between said ridges and also having a transverse band or bar near each end between said ridges, two separable tongues, one for each end of said base, and each having its end held in the longitudinal groove, between the transverse band or bar and the surface of the groove, and means on each tongue for securing it to its respective band.

15. A paper fastener comprising a base embodying two parallel, integral longitudinal ridges forming a longitudinal groove and two transverse, integral bars connecting said ridges, each bar having a perforation each side thereof, and two separable tongues, alined by said ridges, one tongue held by each of said transverse bars, and each tongue bent over the adjacent end of the base, at right angles thereto, each tongue having a lug to engage with said bars.

1,337,599. ADDING-MACHINE. WILLIAM M. HOLLOWAY, Austin, Ill., assignor to Charles W. Shonk Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 25, 1912. Serial No. 727,732. 37 Claims. (Cl. 235—79.)

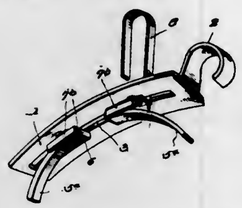
1. In a multiple-order calculating machine having registering mechanism and transferring devices, an eccentric oscillatable means, common to and extending across all

the orders of the machine and engageable with an operative key-element of each order during one stroke, for effecting the prime movements of the registering mecha-



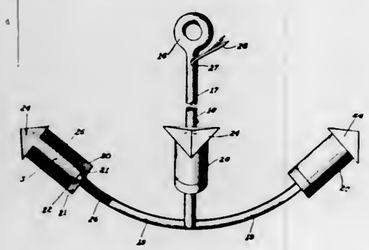
nism during one portion of its movements, and means carried by said eccentric oscillatable means adapted to positively actuate the transferring devices during another portion of its movements.

1,337,600. PISTON-RING REMOVER AND INSERTER. CHARLES O. HAMMONTREE and VICTOR A. NELSON, Bremerton, Wash. Filed July 11, 1919. Serial No. 310,272. 1 Claim. (Cl. 81—3.)



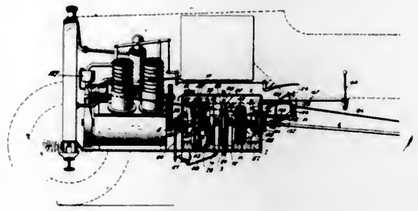
A tool for removing piston rings comprising a curved plate-like body having a fixed handle at one end, said body being formed with a longitudinally arranged slot closed at each end, a jaw removably secured to the body in line with the slot, a plate slidably mounted in the slot, a handle secured to said plate and projecting away from the body, a second jaw and means connecting said second jaw to the plate to permit relative sliding movement of such jaw for disconnection from the plate.

1,337,601. SHIP-SALVAGE DEVICE. MATY HYSZKA, Myrtle Point, British Columbia, Canada. Filed Nov. 13, 1919. Serial No. 337,799. 2 Claims. (Cl. 114—50.)



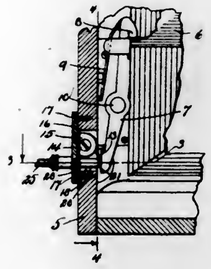
1. A marine grapple having a hollow shank and hollow flukes, the hollows of the flukes ending in a screw threaded socket, a magnet section secured to the socket and a magnetizing coil around the section having leads passing through the flukes and shank and adapted for connection with an electrical supply source on a surface vessel.

1,337,602. VARIABLE-SPEED MECHANISM. OSCAR S. JEFFRIES, Sr., Philadelphia, Pa., assignor to Joseph B. Miller, Philadelphia, Pa. Filed Mar. 8, 1919. Serial No. 281,557. 38 Claims. (Cl. 74—34.)



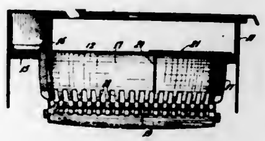
1. In a variable speed transmission, a driving shaft, an eccentric driven by it, a driving gear rotatable on said eccentric, a driven gear at all times in mesh with said driving gear, and fluid retarded means to control said driving gear to vary the relative speed of said driving shaft and said driven gear.

1,337,603. CAMERA-TRIPPING DEVICE. MASON F. JOURDAN, Muskogee, Okla. Filed Nov. 25, 1919. Serial No. 340,526. 4 Claims. (Cl. 95—53.)



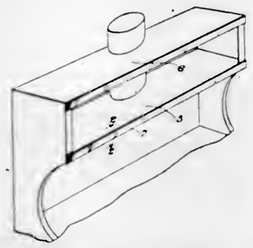
1. In a camera, the combination with a lever adapted to release the focusing mirror and exposure curtain, of tripping means for said lever comprising a trip element slidingly mounted in the frame of the camera and movable into position for engaging and tripping said lever.

1,337,604. FIREPOT FOR RANGES. JOHN JUNGERS, Grafton, Wis. Filed Jan. 18, 1917. Serial No. 142,976. 3 Claims. (Cl. 126—147.)



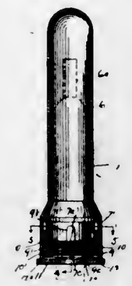
2. In a range, the combination, with a fire box, of a supporting plate extending over the fire box and having an oval shaped opening, an oval shaped bottomless basket-like fire pot having an outwardly extending flange at its upper edge resting upon the supporting plate adjacent the opening and being reversible end for end therein, a blocking device adapted to coöperate with either end of the fire pot having a top section slidable upon the upper edge of the fire pot and a vertical section movable into contact with the converging side walls of the fire pot at either end on endward movement of the top section.

1,337,605. STOVE-TRIMMING. JOHN JUNGERS, Grafton, Wis. Filed Nov. 22, 1919. Serial No. 340,001. 5 Claims. (Cl. 126—17.)



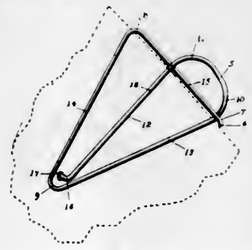
1. In a stove or range, the combination, with the metal framework thereof, of a supporting strip secured to the framework along its central portion, and a trimming strip having flanged edges slidably engaging the edges of said supporting strip.

1,337,606. DUST-CAP. ALVAH L. JUST, Syracuse, N. Y. Filed Dec. 26, 1919. Serial No. 347,254. 3 Claims. (Cl. 152—12.)



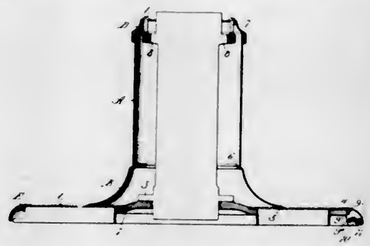
3. The combination with a dust cap having oppositely facing radial pins near its open end, and a plurality of notches in said end, and a washer having radial ribs adapted to engage said notches, of a split nut slidably telescoping the open end of the cap, said nut having threads to engage the threads of a valve stem, and having L-shaped slots to receive said pins, the meeting edges of the sections of said nut provided with aliming sockets, springs engaging the corresponding sockets and adapted to spread said sections for freeing the nut from the valve stem, and means for limiting the spreading of said sections.

1,337,607. CLIP. AUGUST C. KLENKE, Berkeley, Calif., assignor of one-half to Bradley L. Benson, San Francisco, Calif., and one-half to John O. Winks, San Francisco, Calif. Filed Apr. 14, 1919. Serial No. 290,301. 1 Claim. (Cl. 24—261.)



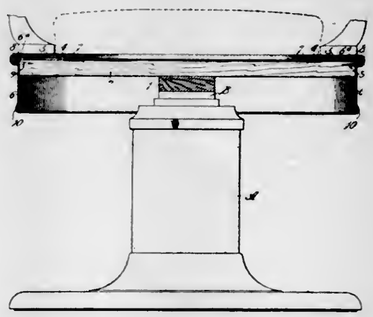
In a paper clip formed of flexible resilient material of a substantially V-shaped portion, one end of said portion being bent so as to overlie the other side of said V in such a manner as to close said V and engage said other side, said other side of said V being formed in a loop adapted to underlie said cross member at one point and overlie it at a point near the center of said cross member in such a manner that said cross member will serve as a fulcrum for said overlying portion, the free end of said overlying portion extending to a suitable point within said V and provided with an upturned end.

1,337,608. PEDESTAL-BASE FOR BARBER-CHAIRS. WALTER F. KOKEN, St. Louis, Mo. Filed Mar. 31, 1919. Serial No. 286,354. 3 Claims. (Cl. 155—7.)



1. A pedestal base for chairs, comprising a supporting structure, a shell forming the exterior of the pedestal base and comprising a base portion and a pedestal portion formed by a plurality of sheet metal members, a cap mounted on the upper end of said pedestal portion, a rim surrounding said base portion, and means for securing said cap and rim to the supporting structure.

1,337,609. SEAT-FRAME FOR BARBER-CHAIRS. WALTER F. KOKEN, St. Louis, Mo. Filed Mar. 31, 1919. Serial No. 286,355. 2 Claims. (Cl. 155—7.)

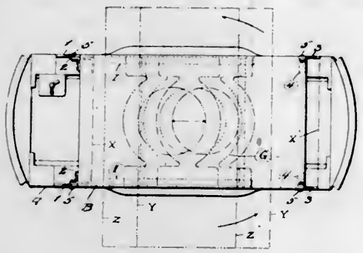


1. A seat frame for barber chairs and the like composed of a supporting structure, a sheet metal skirt member surrounding said supporting structure and depending from same, and a sheet metal plate mounted on said supporting structure and projecting laterally over the upper edge of said skirt member.

1,337,610. STORAGE-BATTERY LOCOMOTIVE. RAYMOND MANCHA, St. Louis, Mo., assignor to Mancha Storage Battery Locomotive Company, St. Louis, Mo., a Corporation of Delaware. Filed Oct. 29, 1919. Serial No. 334,336. 12 Claims. (Cl. 105—28.)

1. A storage battery locomotive, comprising a frame, a motor on said frame for propelling the locomotive, a substantially oblong shaped battery box arranged longitudi-

nally of said frame and normally positioned so that it projects over said motor, and means for enabling said



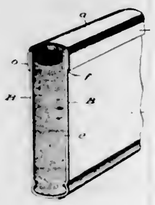
battery box to be arranged transversely of the frame without disconnecting it from the frame so as to gain access to said motor.

1,337,611. VALVE FOR CHAMBERED HEAT-INSULATING WALLS. JOHN J. MENDENHALL, Raiford, Fla. Original application filed Apr. 3, 1917, Serial No. 159,459. Divided and this application filed June 7, 1918. Serial No. 238,771. 9 Claims. (Cl. 220—9.)



2. In a heat-insulating container, the combination of a wall provided with non-communicating compartments therein, a valve secured through the wall and comprising concentrically arranged members independently communicating with said compartments, and independent means carried by the valve for closing the concentric portions thereof independently one of the other.

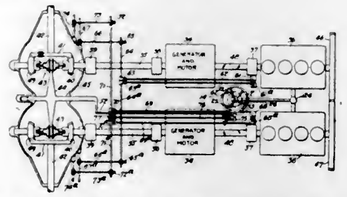
1,337,612. PROTECTOR FOR BOOKS. ARTHUR E. MILLER, Sacramento, Calif. Filed June 28, 1919. Serial No. 307,334. 3 Claims. (Cl. 281—20.)



1. A book protector fashioned with a substantially U-shaped top portion at least one side of which has a length sufficient to enable it to be passed for a substantial distance into the book between the cover and the adjacent leaves or sheets and to be retained in place thereby.

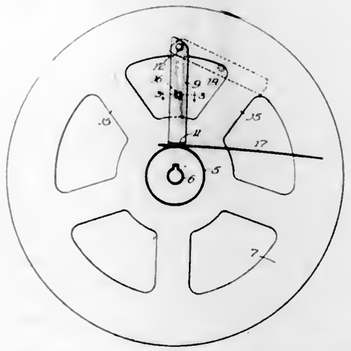
1,337,613. ELECTRICAL CONTROL MECHANISM FOR AUTOMOBILES AND OTHER VEHICLES AND MACHINES. WILLIAM J. P. MOORE, New York, N. Y. Filed Mar. 10, 1916, Serial No. 83,342. Renewed Mar. 2, 1920. Serial No. 362,742. 17 Claims. (Cl. 290—4.)

1. In a mechanism of the class described, the combination of a pair of parallel main shafts, electric motors for separately actuating said shafts, means for generating electricity to drive said electric motors through a slipping clutch, there being one of these means for each electric motor, one or more motors for driving said generating means, and means for jointly controlling the operation of said electric motors so that they may run at the same or at different speeds.



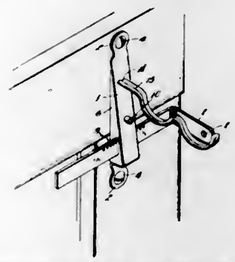
17. In an automobile or similar vehicle, the combination of a pair of twin main shafts, electric generators and motors for independently actuating them, means for jointly and separately controlling the operation of said motors consisting essentially of contact groups, one for each motor arranged in a plurality of circuits including the motors, circuit closers, together with means for simultaneously operating them, a steering mechanism including a steering wheel, and braking appliances for the separate shafts, said braking appliances having their operating members localized with reference to the steering wheel.

1,337,614. FILM-HOLDER. WILLIS H. O'BRIEN and DANIEL SIAKEL, Chicago, Ill.; said O'Brien assignor to said Siakel. Filed July 10, 1919. Serial No. 309,802. 5 Claims. (Cl. 242—74.)



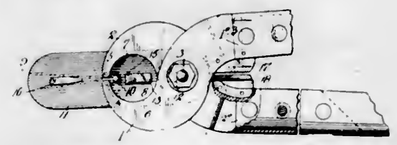
1. A film holder comprising a reel consisting of a smooth hub provided at each end with a radial flange, and a clamping device pivoted to one of said flanges near the margin thereof and adapted when swung into radial position to releasably clamp a film to the hub of said reel.

1,337,615. SHADE AND CURTAIN FIXTURE. WALTER OJCZYK, Cleveland, Ohio. Filed Dec. 12, 1919. Serial No. 344,360. 1 Claim. (Cl. 156—24.)



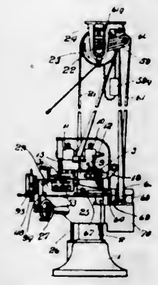
A shade holder comprising a hollow housing having slots in the opposite side walls thereof, a bracket slidable crosswise of the housing, through said slots, the bracket having notches, a spring detent fixed at one end to the wall of the housing and engageable at the other end in any one of said notches, and a push button working through an opening in the front wall of the housing and bearing against the detent to disengage the same from the bracket.

1,337,616. TOOL FOR BENDING WIRE. VLADIMIR OLHOVSKY, New York, N. Y., assignor to Ernst J. Ohnell, New York, N. Y. Filed June 27, 1918. Serial No. 242,153. 4 Claims. (Cl. 140—102.5.)



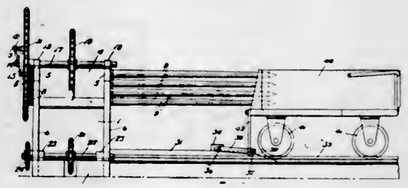
1. A tool comprising a pair of jaws pivoted together, and an abutment between the pivot and the operative ends of the jaws to receive an article while being bent around the abutment, and a stop spaced from said abutment to receive an article therebetween to resist displacement of the article while its outer portions are being bent by the jaws beyond the abutment.

1,337,617. GRINDING-MACHINE. HARRY J. PERKINS, Grand Rapids, Mich. Filed July 29, 1918. Serial No. 247,232. 7 Claims. (Cl. 51—4.)



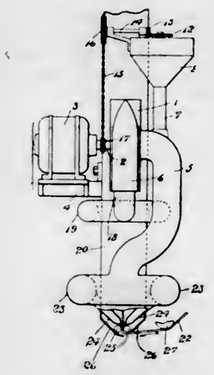
1. In a grinding machine, a support, a knee on the support, a saddle slidably mounted on the knee to move toward or away from the support, a table slidably mounted on the saddle to move back and forth in front of the support, a shaft mounted on the knee, a second shaft mounted on the saddle, telescoping connections between said shafts, and means to drive the table back and forth over the saddle from said second shaft, substantially as described.

1,337,618. PLASTER-BLOCK MACHINE. EDWARD H. PIPE, St. Louis, Mo., assignor to Acme Cement Plaster Company, St. Louis, Mo., a Corporation of Illinois. Filed June 28, 1919. Serial No. 307,451. 8 Claims. (Cl. 25—41.)



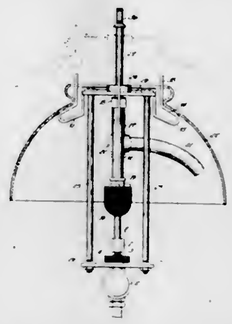
3. In a machine of the character described, a support, a plurality of cores mounted on and projecting in front of the support, a form for receiving cementitious material adapted to be placed close to the support with the cores passing through the form, means to turn the cores about their longitudinal axes, and means to automatically move the form away from the support and thus withdraw the cores a short time after the oscillation of the cores has begun, substantially as described.

1,337,619. POWDER-HANDLING MACHINE. EDWARD H. PIPE, St. Louis, Mo., assignor to Acme Cement Plaster Company, St. Louis, Mo., a Corporation of Illinois. Filed Sept. 29, 1919. Serial No. 327,121. 6 Claims. (Cl. 91—59.)



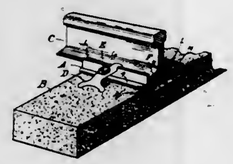
6. In a machine of the character described, means for moving a continuous length of sheet material having an adhesive substance applied thereto vertically and in a downward direction, means for directing powdered material against the sides of said sheet material in excess, said excess not adhering dropping by gravity to a lower point, and means for recovering and again using said excess of powdered material by directing against the sheet material, substantially as described.

1,337,620. HYDROCARBON-LAMP. FERDINAND A. RAFFEL, Cleveland, Ohio, assignor to The Sands Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 6, 1919. Serial No. 322,063. 4 Claims. (Cl. 67—50.)



1. In a lamp, the combination of a supply pipe and valve, an upright vaporizing tube communicating therewith and supported thereby, a starting cup screwed on the upper end of the valve casing, below the tube, and a shade-supporting structure supported by the pipe and casing and including a cross plate clamped to said casing by said cup.

1,337,621. RAIL-SEAT HOLDER. VICTOR E. RANDALL, Battle Creek, Mich., assignor of one-half to Benjamin Gwatkin, Battle Creek, Mich. Filed July 5, 1918. Serial No. 243,451. 9 Claims. (Cl. 238—280.)



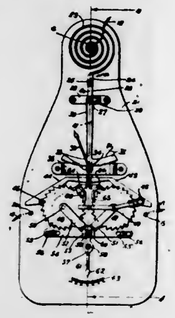
5. A rail seat holder, the combination of a metallic framework having upright parallel sides with outwardly disposed bottom edges connected below the ends of their sides, and a resilient rail seat fitted within said framework between its sides.

1,337,622. VACUUM-SUCTION PLATE. CHARLES N. REESE, Wilmette, Ill. Filed Aug. 2, 1918. Serial No. 247,902. 1 Claim. (Cl. 32—4.)



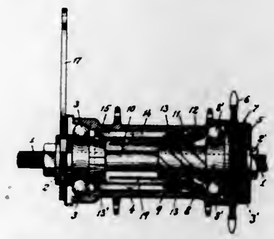
A dental plate having a suction chamber in one face thereof, there being an opening through the back of the chamber, a valve casing secured in and filling said opening and substantially flush with one side of the plate and with the back of the suction chamber, a valve member within the casing, the casing having an outlet communicating with the suction chamber and controlled by the valve and said valve having a bearing throughout one face thereof against one wall of the casing in the closed position of the valve.

1,337,623. THERMOSTAT. AXEL G. STEPHENSON, Denver, Colo. Filed Jan. 24, 1919. Serial No. 272,932. 14 Claims. (Cl. 200—139.)



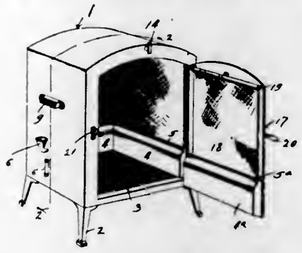
1. A thermostat, comprising a member movable in response to varying temperature conditions, two electrodes, circuits in which the electrodes are respectively located, and means arranged adjacent the electrodes and connected to be actuated by the said member, said means including a gravity operable parts releasably mounted to drop quickly into engagement with the respective electrodes to prevent arcing while closing the circuits.

1,337,624. COASTER-BRAKE. CHARLES WALFRID SVENSON, New Britain, Conn., assignor to American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 9, 1919. Serial No. 270,309. 7 Claims. (Cl. 208—57.)



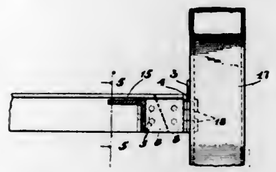
1. In a braking mechanism, the combination of an axle, a hub shell surrounding said axle, an expandible tubular brake shoe in said shell, a stationary anchorage for one end of said shoe preventing rotation thereof at all times, a nut having a tapered inner end revoluble relatively to said brake shoe, said tapered inner end being within the other end of said shoe and acting directly thereon to expand the same when forced therein, and the outer end of said nut and shell having corresponding gripping surfaces, a screw-threaded sleeve within said nut, said shell being revolubly mounted on said anchorage and sleeve and said sleeve being rotatably mounted on said axle and being provided with driving means.

1,337,625. REFRIGERATOR. HARRY M. TARRAS, Toronto, Ontario, Canada, assignor of one-half to Robert John Gaskin, Toronto, Canada. Filed June 27, 1919. Serial No. 307,185. 8 Claims. (Cl. 45—133.)



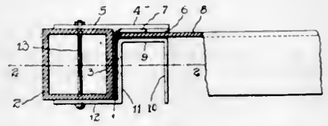
1. In an iceless refrigerator, a cabinet having a ventilating opening, a water tank arranged around said cabinet, a roller extending transversely across the top of the cabinet and through one wall thereof, a handle on said end, a liquid absorbent lining suspended over said roller, said lining dipping into said tank and movable by the turning of said roller to vary its position in the cabinet.

1,337,626. CORNER-JOINT FOR BEDSTEADS AND THE LIKE. RADU TATTU, Brooklyn, N. Y. Filed Oct. 8, 1917. Serial No. 195,225. 6 Claims. (Cl. 5—55.)



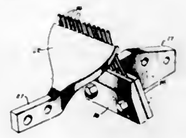
4. In a device of the character described, the combination of a corner member having a head leaf and a side leaf, a block carried by the side leaf and having an inclined edge adapted to wedge a lug carried by a side rail, a bracket member secured upon the corner member and spaced therefrom to admit between them the vertical flange of said side rail.

1,337,627. CORNER FOR BEDSTEADS. RADU TATTU, Brooklyn, N. Y. Filed May 6, 1919. Serial No. 295,209. 5 Claims. (Cl. 5—55.)



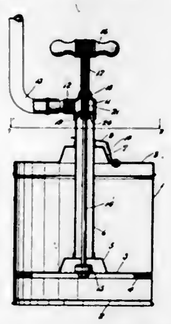
5. In a device of the character described, the combination of a T-shaped anchor member and a U-shaped bracket member spaced to receive between them the vertical flange of a side bar of a bedstead, blocks on the said anchor member and the said flange of the side bar and having inclined edges to wedge the side bar and means upon the bracket member to support an end bar.

1,337,628. ELECTRIC SWITCH. JOHN R. TOWNSEND, South Bend, Ind. Filed Sept. 20, 1919. Serial No. 325,217. 6 Claims. (Cl. 200—166.)



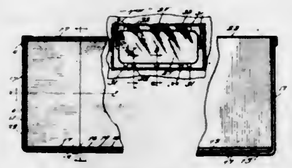
1. A switch having two contacts one of which is movable relatively to the other, one of said contacts having a plurality of flexible wires arranged substantially in a plane and rigidly connected together at one end, and the other contact being adapted to engage the side of said wires and to flex them when the switch contacts are in closed position.

1,337,629. GREASE-GUN ATTACHMENT. A. J. WOOD, Grand Rapids, Mich. Filed May 10, 1918. Serial No. 233,655. 6 Claims. (Cl. 221—78.)



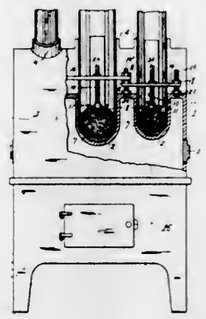
1. In combination with a receptacle adapted to hold grease, a follower plate having an opening therein and adapted to lie against the grease in said receptacle, a barrel secured to the follower plate at the opening therein, a piston in the barrel, means for moving the piston back and forth in the barrel and to a point below the barrel, and an outlet member at the upper end of the barrel through which grease may be ejected, substantially as described.

1,337,630. CRACKER-CAN. FREDERICK P. WOOD, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 12, 1915. Serial No. 33,657. 5 Claims. (Cl. 229—6.)



1. A cracker can comprising a body of fibrous board consisting of inner and outer flat layers which are spaced apart, the front of said can being formed with a display aperture, and a sheet metal clamp secured in said aperture and having horizontally extending top, bottom and side parts which are continuous with each other and which lie across the edges of the said spaced-apart layers, said clamp having a flange which engages the exterior of the outer layer and having bendable fingers which engage the interior of said inner layer, said clamp having also bendable fingers to hold in place a plate of glass on the interior of said body.

1,337,631. VULCANIZER. ARTHUR B. ZWEBELL, Milwaukee, Wis. Filed Sept. 16, 1918. Serial No. 254,247. 3 Claims. (Cl. 18—18.)

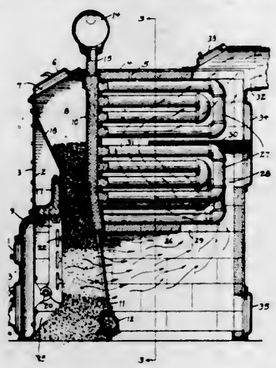


2. In a repair vulcanizer, the combination with a heating chamber, having an arcuate seating, and provided with radially disposed sets of clamping posts, arranged in pairs on opposite sides of the seating, adjusting nuts on said posts, anchor plates, spanning the space above the seating, and adapted to engage the posts underneath the nuts, said plates having longitudinally extending post receiving fork arms at one end, and laterally extending post receiving fork arms at the other end, a clamping set screw having threaded engagement with the central portion of each anchor plate, and an arcuate clamping plate adapted to receive the pressure of all of the set screws in the series, whereby each set screw may be independently adjusted to exert the desired pressure upon the clamping plate.

1,337,632. COMBINATION BOILER AND FURNACE. JOHN W. ALLAN, Minneapolis, Minn. Filed July 11, 1918. Serial No. 244,457. 5 Claims. (Cl. 122—237.)

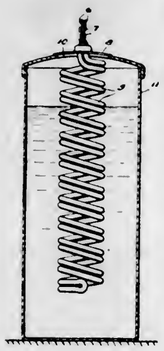
1. In a heating apparatus, a fuel magazine and a fire-box beneath the same, the magazine converging downwardly and the fire-box diverging downwardly, the communicating contiguous portions of the magazine and fire-box constituting a coking zone, a water chamber extend-

ing along the rear wall of the magazine and coking zone, water chambers extending along opposite sides of the magazine, coking-zone and fire-box, a water chamber extending across the front of the coking-zone and communicating with the side water chambers, an upright open grate arranged to constitute the front of the fire-box, and spaced-apart tubes in communication with the rear water



chamber at the lower portion of the coking-zone and with a header at the lower part of the fire-box whereby fuel in the magazine and coking-zone is protected by the water chambers against excessive heat and gases are drawn from the coking-zone and they together with products of combustion of the fire box are passed between the tubes at the rear of the fire box below the coking-zone.

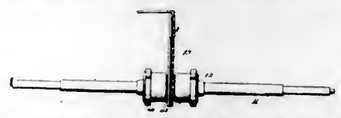
1,337,633. ELECTRICAL HEATING ELEMENT. PHILIP F. APFEL, Seattle, Wash. Filed Apr. 26, 1919. Serial No. 293,290. 1 Claim. (Cl. 219—63.)



An electric heating element comprising a resistance element of double strand formation bent to spiral form with two independent slightly spaced strands in each coil of the spiral form, whereby the spirals may be lengthened and shortened to accommodate the heating element to vessels of different depths, the strands adjacent the coil being twisted, and a mounting cap carried by the heating element intermediate t e coil and twisted portion for suspending the coil within the open upper end of a container.

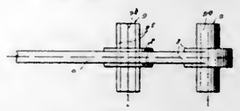
1,337,634. DRIVING MECHANISM. ANDREW BENSON, Chicago, Ill., assignor, by mesne assignments, to Janesville Products Company, Janesville, Wis., a Corporation of Wisconsin. Filed Feb. 5, 1916. Serial No. 76,277. 11 Claims. (Cl. 192—22.)

1. A clutch comprising a driven shaft, a driven clutch member secured thereto, a driving clutch member and a sheet metal housing inclosing said clutch members and extended to one side a substantial distance, said sheet



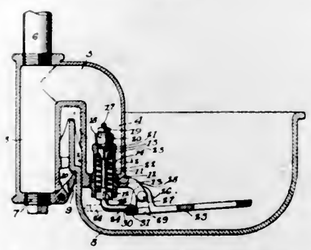
metal housing having inturned flanges, one located at the end of the extended part to provide an elongated bearing on said shaft.

1,337,635. SCALE-LEVER. CHARLES E. BIRD, Minneapolis, Minn. Filed May 26, 1919. Serial No. 299,949. 5 Claims. (Cl. 74—104.)



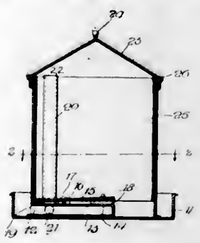
1. A knife edge scale pivot formed with a cylindrical portion, with a wedge-shaped portion and with shoulders at the base of said wedge shape portion.

1,337,636. STOCK-WATERING BOWL. FRANK H. BOGDA, Horicon, Wis. Filed Jan. 8, 1918. Serial No. 210,858. 6 Claims. (Cl. 119—75.)



1. A device of the character described, comprising a bowl, a water inlet-pipe projecting into the bowl, a valve for controlling the flow of water through said inlet-pipe, a presser-plate for operating said valve, and pivoting means for supporting said presser-plate in a horizontal position in the bowl, said pivoting means embodying a fixed part projecting into the bowl and a bearing part on the presser-plate which is formed with a longitudinally extending entrance-way to admit the fixed part in one position of the presser-plate and also a transversely extending entrance-way to permit said fixed part to reach the seat of said bearing part after the presser-plate has been moved to another horizontal position.

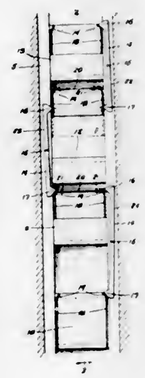
1,337,637. DRINKING-FOUNTAIN. EMIL FREDERICK BOWMAN, Marshalltown, Iowa. Filed June 23, 1919. Serial No. 306,031. 7 Claims. (Cl. 119—77.)



1. A drinking fountain embodying an open tank having a discharge outlet adjacent its bottom, a valve dis-

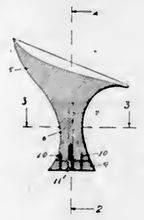
posed entirely within the tank for controlling the outlet, a closure for the tank, and means connected with the closure and extending into the tank to actuate the valve to open the outlet when the closure is in position.

1,337,638. AUTOMATIC LOCK DEVICE FOR DOORS. CHARLES F. BRADLEY, New York, N. Y. Filed Feb. 15, 1919. Serial No. 277,238. 4 Claims. (Cl. 292—44.)



1. The herein described means for automatically locking all the doors of a dumb-waiter and elevator shaft when one of said doors is opened, said means consisting of lock devices alternately arranged at the opposite sides of the doors in said shaft and operating in connection with one end portion of each of said doors.

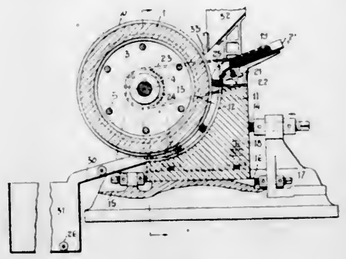
1,337,639. HEEL. JOSEPH BURGER, Brooklyn, N. Y. Filed July 24, 1919. Serial No. 312,997. 4 Claims. (Cl. 36—34.)



1. The combination with a one-piece turned wooden heel, of a pair of dowels driven from the bottom up through the body of the heel and consisting each of a tubular metallic pin of angular cross section, having external screw threads cut in the angular corners thereof and biting into the wood to bind the same together and to lock the pin in the position to which it is driven.

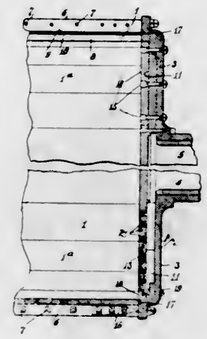
1,337,640. METHOD OF ROLLING BALLS AND OTHER OBJECTS OF ROTATION. FERDINAND E. CANDA, New York, N. Y. Filed Feb. 23, 1915. Serial No. 9,845. 1 Claim. (Cl. 80—18.)

The herein described method of forming metal balls which comprises rolling a heated metal bar about its central axis and in so doing grooving such bar at three or more equi-distant points, and thereby producing in the bar a series of balls, and in so doing forcing excess metal into such balls and thereby extending them to a diameter greater than the original diameter of the bar, and while



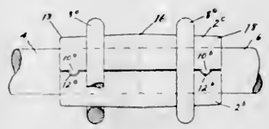
the said balls are still connected by necks, and are still hot, immersing them in a tempering bath, and then separating the balls from their connecting rocks.

1,337,641. BALL-MILL. FERDINAND E. CANDA, New York, N. Y. Filed May 13, 1916. Serial No. 97,224. 6 Claims. (Cl. 83—9.)



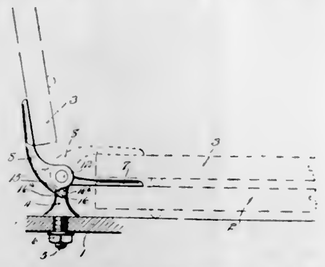
3. A ball mill such as described comprising a shell with at least one separable head, said head having a grating-support, and a grating on such support comprising a series of segments each formed of a plurality of grate bars, and means for pressing such grate bars inward and together comprising wedge-headed bolts extending to the exterior of the head and means for drawing such bolts outward.

1,337,642. SHAFT-COUPLING. CHARLES HASKELL CLARK, New York, N. Y. Filed Dec. 4, 1918. Serial No. 265,286. 4 Claims. (Cl. 287—111.)



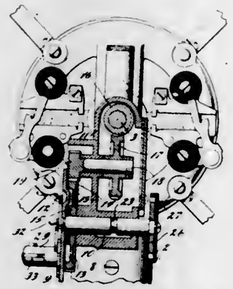
1. A coupling comprising a tapered member mounted upon shafts to be coupled, in combination with a ring encircling said tapered member, adapted to firmly engage and force said tapered member against said shafts for the purpose set forth, said ring having its face engaging said tapered member of convex form in cross-section.

1,337,643. HINGE FOR CLOSET-TOPS. EDWARD J. DE GUENTHER, Milwaukee, Wis. Filed July 1, 1919. Serial No. 307,950. 5 Claims. (Cl. 4—18.)



1. A hinge comprising a fixed element and a hinge element, the hinge element including an eye, a pintle extending from the fixed element and being rotatably disposed in the eye, a shoulder on the hinge element, and a lug projecting from the fixed element in the direction of said pintle for engagement by the shoulder to retain the hinge element against pivotal movement in one direction.

1,337,644. MOTOR-FAN. CHARLES H. J. DILG, New York, N. Y. Original application filed Jan. 7, 1913, Serial No. 740,641. Divided and this application filed Oct. 9, 1917. Serial No. 195,497. 21 Claims. (Cl. 230—1.)



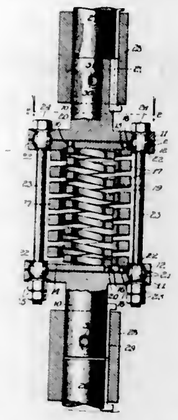
1. In a motor fan, the combination of a base, a motor and casing therefor pivotally supported upon the base, and an oscillating train operatively connecting the motor shaft to the base and including means operable by the motor to interrupt the train upon impedance of the oscillatory movement and thereby to automatically render the fan non-oscillatory.

1,337,645. MOTOR-MOUNTING FOR BELLOWS-PUMPS. LEWIS B. DOMAN, De Witt, N. Y., assignor to The Amphion Piano Player Company, Syracuse, N. Y., a Corporation of New York. Original application filed Feb. 14, 1916, Serial No. 78,175. Divided and this application filed Aug. 2, 1918. Serial No. 247,919. 4 Claims. (Cl. 248—30.)



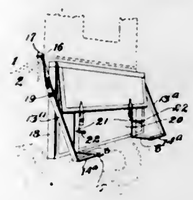
2. In combination with an electric motor having a suitable base, a pad of pliable material upon which the base of the motor loosely rests, a strap or band extended around and upon the top of the motor, means for holding one end of the band in a fixed position relatively to the pad, and movable means for attaching the other end of the band to a fixed support.

1,337,646. FLEXIBLE COUPLING. GEORGE F. ECKART, Lexington, Ky. Filed July 24, 1919. Serial No. 312,886. 10 Claims. (Cl. 64—96.)



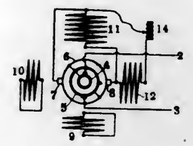
1. In a flexible coupling, a pair of opposing members, a pair of springs under a mutual torsional strain secured to said members and additional means flexibly connecting said members for placing said springs under initial compression.

1,337,647. DETACHABLE TRUNK-RACK FOR AUTOMOBILES. SAMUEL W. FRIEDMAN, Birmingham, Ala. Original application filed Aug. 5, 1916, Serial No. 113,587. Divided and this application filed Nov. 30, 1918. Serial No. 264,767. 8 Claims. (Cl. 224—29.)



1. An apparatus of the character described comprising brackets made fast to the bottom of an automobile, brackets mounted at the end of the car body near the top thereof, hanger members connected to the upper brackets, compression members detachably connected to the bottom brackets and to the lower ends of the adjacent hanger member, and a trunk connected at its ends to the adjacent pair of hanger and compression members, substantially as described.

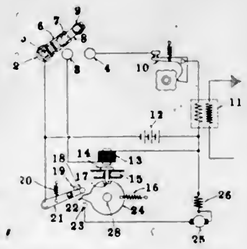
1,337,648. SYNCHRONOUS ALTERNATING-CURRENT MOTOR. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed May 9, 1916. Serial No. 96,288. 4 Claims. (Cl. 171—123.)



1. A synchronous alternating current dynamo electric machine comprising a rotor and a stator, the rotor

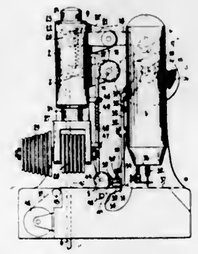
being provided with a commutator and brushes cooperating therewith and with slip rings, and the stator being provided with means for producing a unidirectional magnetization independent of the load to neutralize at least part of that component of the alternating current rotor reaction flux which is unidirectional with reference to the stator and is displaced from that axis of the machine which is 90 electrical degrees from the brush axis.

1,337,649. STARTING AND IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 7, 1918. Serial No. 221,068. 8 Claims. (Cl. 290—38.)



1. In a starting and ignition system for internal combustion engines, a starting motor, a supply circuit therefor, an ignition circuit, an ignition controlling switch, means for controlling the closing of the supply circuit, said means comprising a manually operable switch which can be opened and closed only when the ignition switch is in its closed position.

1,337,650. MACHINE FOR MARKING LINEN AND THE LIKE. ARTHUR HAMMER, Berlin, and FRITZ EGERSDÖRFER, Berlin-Charlottenburg, Germany; said Egersdörfer assignor to said Hammer. Filed Jan. 22, 1915. Serial No. 3,676. 6 Claims. (Cl. 112—24.)



1. A machine for marking articles to be laundried, comprising a device for stamping designs on a tape, a sewing device for attaching the end of said tape to the article, a device for cutting off the attached end, and means for feeding the tape to said devices, and a common reciprocating actuating means and means to actuate the sewing device during the movement of said actuating means in one direction only.

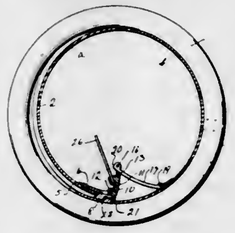
1,337,651. PISTON-RING. STEPHEN D. HARTOG, St. Louis, Mo., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo., a Corporation. Filed Feb. 14, 1919. Serial No. 276,955. 3 Claims. (Cl. 74—109.)

1. A split piston ring having a relatively deep groove extending from a point near one end thereof to a point near the opposite end thereof, and having a relatively shallow circumferential groove between said deep groove and one of the side edges of the ring, and having a series



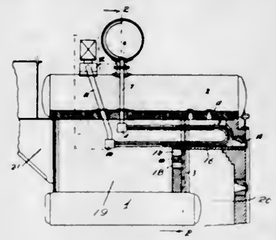
of notches of greater depth than said shallow groove and of less depth than said deep groove connecting said deep groove with one of the side edges of the ring and intersecting said shallow groove.

1,337,652. CONTRACTOR-EXPANDER. ALBERT C. HOECKER, Collinsville, Ill. Filed May 12, 1919. Serial No. 296,400. 4 Claims. (Cl. 152—21.)



1. In a contractor-expander for split rims, the combination with the split ends of the rim, of a pair of toggle links pivotally united and provided with pivotal connections with the end portions of the rim, one of the links having a projection adjacent its pivotal point with one of the split ends, the other end portion of the rim having a lug to be engaged by said projection when the links are collapsed inwardly, to hold the links in their collapsed positions.

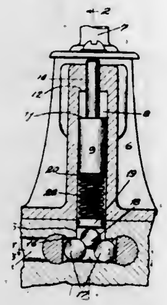
1,337,653. STEAM-GENERATOR FITTED WITH SUPERHEATER. JAMES HOWDEN HUME, Glasgow, Scotland, assignor to James Howden & Company, Limited, Glasgow, Scotland. Filed Dec. 23, 1916. Serial No. 138,662. 2 Claims. (Cl. 122—476.)



1. In combination, a multi-sectional steam generator, each section comprising a pair of drums one above the other, stacks of upright tubes connecting the drums of each pair, a combustion chamber beneath the upper drums and rearward of said tubes, said stacks of tubes being spaced apart to afford a horizontal flue between the tubes of adjacent sections, said flue communicating at its front end with the uptake, a checker brick-work wall between the rear end of said flue and said combustion chamber, said checker brick-work wall presenting readily closable

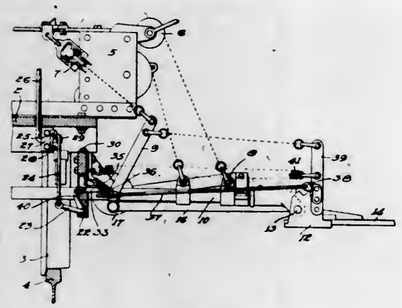
openings for passage of combustion products from said combustion chamber to said flue, and a superheater located between two adjacent sections and comprising a series of U-shaped tubes contained at least partly in said flue.

1,337,654. LOCK, RETAINER, AND INTERLOCK FOR SHIFTER DEVICES. GEORGE C. JENSEN, Oakland, Calif. Filed June 25, 1919. Serial No. 306,701. 7 Claims. (Cl. 70—126.)



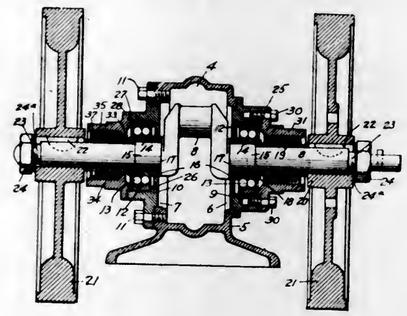
1. In combination with a pair of parallel spaced longitudinally movable shifter devices provided on adjacent faces with stops, a pair of members positioned between said devices, one for coöperating with the stops on each shifter device, a separating member positioned above said members and between the same for normally separating the same, a longitudinally movable locking bolt, and means between said bolt and separating member for normally forcing said separating member and bolt in opposite directions, said locking bolt when in locking position precluding the disengagement of said separating member from between said shifter devices on the movement of said devices.

1,337,655. WEED-CUTTER. WALTER F. KASPER, Fairmont, Minn., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn., a Corporation. Filed Aug. 18, 1916. Serial No. 115,700. 3 Claims. (Cl. 56—232.)



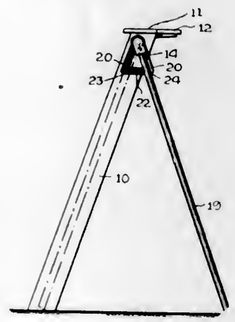
1. The combination, with a railroad car platform, of a bar pivoted at one end thereon, a shoe mounted on the opposite end of said bar, a guide bar mounted on said shoe, a cutter-bar carried by said guide bar, a cutter-bar driving mechanism and a controlling clutch therefor, a lever mechanism for moving said clutch to an operative or inoperative position, means for raising said pivoted bar and with it said guide bar, and independent means for tilting said guide bar to a substantially upright, nonworking position and mechanism actuated by the upward movement of said guide bar for operating said clutch to disengage said cutter bar driving mechanism.

1,337,656. GAS-ENGINE BEARING. WALTER F. KASPER, Fairmont, Minn., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn., a Corporation. Filed Apr. 5, 1919. Serial No. 287,804. 3 Claims. (Cl. 64—36.)



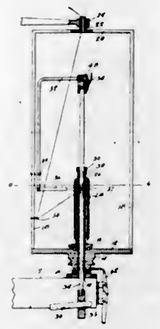
3. In a gas engine, the combination, with a casing and a crank shaft having shoulders adjacent the crank arms, of anti-friction bearings having inner races mounted upon said crank shaft and abutting said shoulders, outer races for said bearings, main housings connected to the casing for said bearings, auxiliary housings connected to said main housings, means connected with said main and auxiliary housings for holding one of said outer races against movement and letting the other float laterally, a cylindrical chamber surrounding said crank shaft in said auxiliary housings, a sleeve slidingly mounted upon said crank shaft within said chamber to rotate with said shaft, packing rings arranged upon said sleeve within said chamber, spring-pressed means for forcing said packing rings against the periphery of said sleeve and against the walls of said chamber, and means coöperating with said crank shaft and said sleeve for forcing the inner races against the shoulders of said crank shaft.

1,337,657. STEPLADDER. MARY E. KELLEHER, Rutland, Vt. Filed Apr. 4, 1919. Serial No. 287,620. 5 Claims. (Cl. 228—68.)



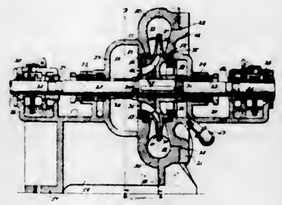
1. The combination with a step ladder having a swinging brace or prop, of a bracket adapted to be attached to the side of the step portion of the ladder and inside the prop, said bracket having an outwardly extending flange with socket portions in its outer edge and near opposite ends adapted to engage the brace or prop.

1,337,658. TWISTING AND WINDING MACHINE. ALDEN J. KENT, Rowley, Mass., assignor of one-half to Samuel F. Knowles, Jr., Rowley, Mass. Filed Aug. 14, 1918. Serial No. 249,904. 6 Claims. (Cl. 118—55.)



1. In a twisting and winding machine, a hollow spindle mounted to rotate freely, frictional means for retarding the rotation of said spindle, a rod extending through said spindle, a thread-guide rotatably connected to said rod and extending into position to deliver the thread to said spindle, a thread-guide carrier, means for constantly rotating the same about the axis of said spindle, engaging means between said carrier and thread-guide to cause rotation of the latter with the carrier and simultaneously operating means to move said rod reciprocally.

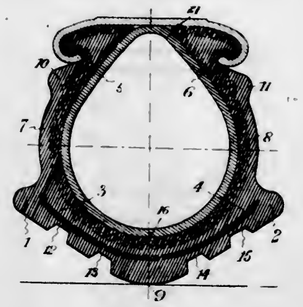
1,337,659. CENTRIFUGAL PUMP. CHARLES V. KERR, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed Sept. 10, 1917. Serial No. 190,524. 9 Claims. (Cl. 253—200.)



1. A two-part two-stage impeller, for centrifugal pumps in which each part is an integral structure and comprises a hub and a side plate, and each of the parts has one of the two sets of blades which constitute the two stages.

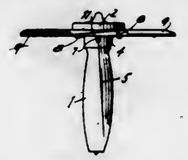
1,337,660. PNEUMATIC TIRE. EDWARD BRICE KILLEN, London, England. Filed May 6, 1918. Serial No. 232,860. 1 Claim. (Cl. 152—13.)

A hollow pneumatic tire or tire cover having a tread portion comprising, normally, a central annular, transversely-curved, road bearing or tread portion, and, at each side of said central portion, and outwardly inclined therefrom, other bearing or tread portions spaced apart by grooves, the outermost of said last-named bearing or tread portions being thick and strong and extending laterally beyond the side walls of the said tire or tire cover; this construction affording proper resilience under light loads, and great circumferential road contact, great



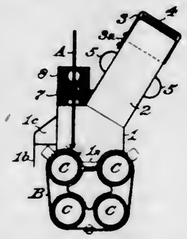
tread width and great traction under heavy loads, as also affording protection to said side walls from chafing against curbstones and the like, as set forth.

1,337,661. TOY. MOSES LALONDE, Springfield, Mass., assignor of one-half to Louise Lalonde, Springfield, Mass. Filed Dec. 8, 1919. Serial No. 343,144. 4 Claims. (Cl. 244—2.)



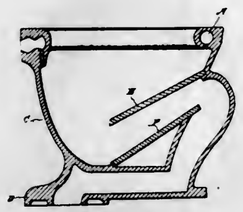
1. The combination, in a toy, with a handle having a longitudinal passage through the same and a lateral aperture, of a top comprising a head and spindle, said spindle being adapted to have a cord wound thereon, said passage being of a size to receive freely said spindle with the cord wound thereon, and the aperture being designed to permit the free terminal portion of such cord to pass to the outside of said handle, and a flier attachable to and detachable from the under side of said top, and perforated to receive said spindle.

1,337,662. ELECTRIC WELDING APPLIANCE. RALPH P. LA PORTE, Schenectady, N. Y. Filed Dec. 3, 1919. Serial No. 342,123. 4 Claims. (Cl. 219—8.)



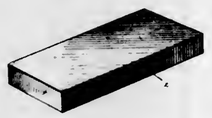
1. In an electric welding appliance, the combination of an open bottomed case; a cupola, extending above the top thereof; one or more glass pieces, carried by said cupola; side and end light shields fixed to the case; and means for enabling a welding wire to be moved into and out of the case.

1,337,663. METHOD OF MAKING SANITARY EARTHENWARE. EDWARD H. LAWRENCE, Cameron, W. Va., and RAYMOND E. CRANE, Wilmette, Ill. Filed Aug. 5, 1919. Serial No. 315,480. 3 Claims. (Cl. 25—129.)



1. A mold for manufacturing a closet bowl or other similar fixture comprising the outside mold and a core, both mold and core being made of an absorbent material a portion of said core being covered with a non-absorbent material for the purpose of rendering it imprevious to the liquid clay which comes in contact with said impervious portion so that a crust of clay will not be formed at the point adjacent said impervious surface.

1,337,664. TOY BUILDING AND DESIGN BLOCK. CHARLES F. LORENZEN, Oak Park, Ill. Filed Dec. 18, 1919. Serial No. 345,887. 2 Claims. (Cl. 46—35.)



1. A toy building block composed of vitrified ceramic material which is impervious to moisture.

1,337,665. METAMORPHOUS SAL-AMMONIC, (AMMONIUM CHLORID.) CARL PFANSTIEHL, Highland Park, Ill., assignor to Special Chemicals Company, a Corporation of Illinois. Filed Feb. 19, 1919. Serial No. 278,048. 3 Claims. (Cl. 23—21.)

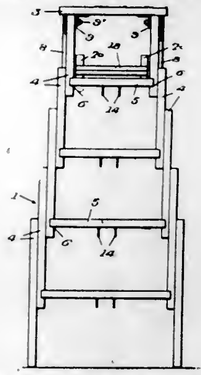
1. The herein-described metamorphous sal ammoniac (ammonium chlorid) in the form of a solid mass of white or grayish color and having the characteristic appearance and fracture of marble.

2. Sal ammoniac (ammonium chlorid) metamorphosed by pressure in the form of a solid mass having the characteristic appearance and fracture of marble.

3. The method of making metamorphous sal ammoniac (ammonium chlorid) consisting in the application of pressure sufficient to cause the crystals to flow together and form a solid mass having the characteristic appearance and fracture of marble.

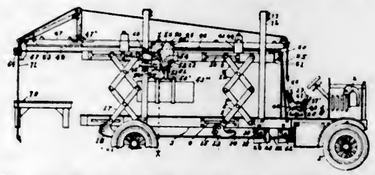
1,337,666. STEPLADDER. ARTHUR J. REMALIA, Warren, Ohio. Filed Feb. 25, 1919. Serial No. 279,148. 2 Claims. (Cl. 228—38.)

1. A ladder comprising a series of sections each having a pair of side bars and a step secured at its ends to the side bars near the lower ends thereof, said sections fitting one within the other, the adjacent sides of said bars having dove-tailed grooves and tongues longitudinally thereof fitting together slidably for guiding said sections for movement to extend and nest the sections of the ladder, said steps decreasing in length and the bars decreasing in length from the lower to the upper ladder sections in succession so that said sections can nest one within the other entirely within the lower section, and latches carried by said steps having finger pieces extending therefrom, said side bars having sockets for the engagement of the latches and the lower ends of the bars extending below the corresponding steps to seat on the



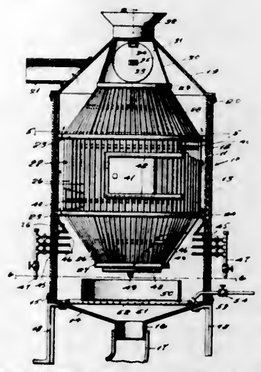
next lower steps to provide clearances between the steps for said finger pieces.

1,337,667. HOISTING AND LOADING MECHANISM. MARY JANE REYNOLDS, St. Joseph, Mo. Filed Aug. 11, 1919. Serial No. 316,778. 3 Claims. (Cl. 212—98.)



2. The combination with a vehicle provided with an engine for propelling it; of a tram rail; a load carrier transportably supported on said tram rail; lazy tongs raising and lowering means whereby said tram rail is raised and lowered; cables whereby said lazy tongs are operated; cable winding means whereby said cables are wound on and unwound from winding drums; disconnectible gear connections whereby said winding means is connected with the shaft of said engine; and controlling means whereby said gear connections are controlled; thereby controlling the movements of said lazy tongs and the thereby supported parts.

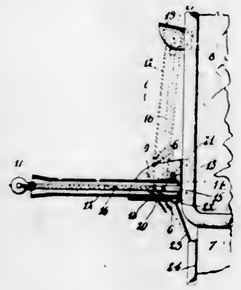
1,337,668. GARBAGE-INCINERATOR. ALBERT J. ROBERTS, Pittsburgh, Pa., assignor to Pittsburgh Garbage Incineration Co., Incorporated, Pittsburgh, Pa. Filed Nov. 5, 1915. Serial No. 59,809. 2 Claims. (Cl. 110—18.)



1. A garbage incinerator comprising a cylindrical casing, a cage within the casing composed of horizontal rings with vertical bars connected to said rings, arcuate

baffle plates arranged in offset relation in said cage, a doorway carried by the cage, a door movable in said doorway, doors on the casing registering with said first-named door, means for introducing garbage to the interior of said cage, and a grate at the bottom of said cage.

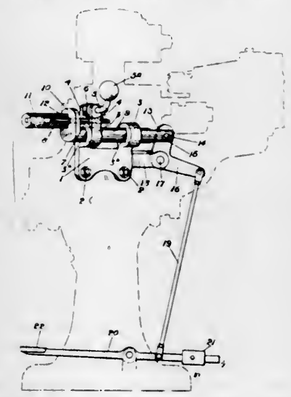
1,337,669. SIGNALING DEVICE. CHARLES F. SCHELL, Buffalo, N. Y. Filed Jan. 3, 1916. Serial No. 69,956. 7 Claims. (Cl. 116—46.)



1. The combination with a vehicle, of a spring-retained signaling member pivotally secured to said vehicle and normally held in retracted position, said signaling member having a hollow portion, a pivotally supported lamp arm within said hollow portion, a lamp carried by said lamp arm, and means to move said signaling member from its normal or retracted position to its extended or signaling position, said lamp arm being movable with said signaling member and having its pivot out of line with the pivot of said signaling member to cause said lamp to be projected from said hollow portion when said signaling member is moved to signaling position.

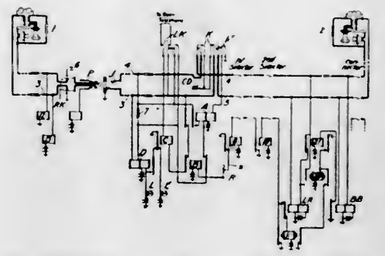
3. The combination with a vehicle, of a bracket secured to said vehicle, a tubular signaling member pivotally secured to said bracket, a pivoted lamp rod extending centrally through said tubular signaling member and having its pivot offset with respect to the pivot of said tubular member, a lamp secured to said lamp rod, and means for normally holding said tubular member in vertical position with said lamp rod retracted within said tubular member, said lamp rod moving lengthwise within said tubular member when swinging the latter from vertical into extended or signaling position to cause said lamp to be projected beyond the outer end of said tubular member.

1,337,670. PIN-PULLER. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 16, 1918. Serial No. 254,317. Renewed Mar. 8, 1920. Serial No. 364,248. 2 Claims. (Cl. 29—86.1.)



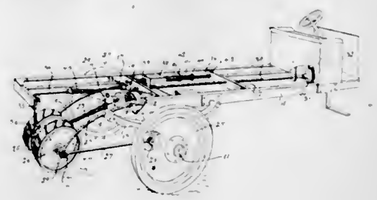
1. In a pin puller for drill sharpeners, clamping means comprising a stationary and a movable member adapted to securely grasp a pin, a movable abutment against which a drill is adapted to rest and means engaging said abutment for moving it away from said clamping means.

1,337,671. TELEPHONE-EXCHANGE SYSTEM. ARTHUR B. SPERRY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 6, 1918. Serial No. 238,484. 2 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a calling and a called line, an operator's position, a trunk, means including automatic switching devices for establishing a connection between said lines over said trunk, bridges across the incoming and outgoing ends of said trunk established when said connection is made, a relay at said operator's position for controlling a supervisory signal thereat, said relay being responsive to the closing of said bridges, means under the control of either the calling or the called line for opening its bridge and therethrough open the other bridge, and means for releasing said switching devices when said bridges are opened.

1,337,672. AUXILIARY TRACTION-WHEEL FOR MOTOR-VEHICLES. HARNEY G. STEELE, Johnstown, Pa. Filed Jan. 18, 1919. Serial No. 271,804. 9 Claims. (Cl. 180—15.)

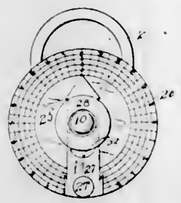


1. The combination with a motor driven truck having power driven main traction wheels, of an auxiliary power driven traction element shiftably mounted upon the truck for vertical movement into or out of operative engagement with the ground, a spring-carrying member mounted upon the truck and shiftable with relation thereto, manually operable means for shifting said spring-carrying member, springs mounted on said carrying member and shiftable therewith, and operative connections between the auxiliary traction element and said springs whereby said springs will yieldingly resist upward movement of the traction member.

1,337,673. DYE RECOVERY. EDWARD J. WALL, Syracuse, N. Y., assignor to Kalmus Comstock & Westcott, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed May 18, 1917. Serial No. 169,464. 8 Claims. (Cl. 8—6.)

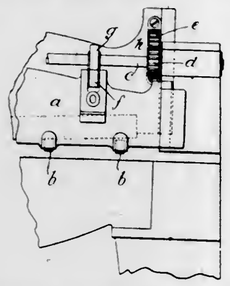
4. The method of recovering the dye from a dye solution comprising introducing cellulosic matter in fibrous form into the dye solution so as to absorb the dye, and subsequently subjecting the cellulosic matter to the action of a dye solvent so as to extract the dye from the cellulosic matter.

1,337,674. PERMUTATION-PADLOCK. JOHN M. WALTER, Calumet, Mich. Filed June 1, 1916. Serial No. 101,144. 8 Claims. (Cl. 70—112.)



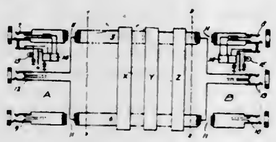
1. In a permutation lock, a casing having a pivotal shackle, an arm carried by the shackle, a keeper for receiving said arm and locking the shackle in a closed position, a sleeve arranged centrally of the casing, rotatable tumbler plates arranged upon said sleeve, slidably mounted means within the sleeve, means adapted to be engaged by said slidably mounted means and adapted to engage said keeper for releasing said arm as said slidably mounted means is shifted and said tumbler provided with means formed therein for permitting sliding movement of the sliding means, and rotatable and slidable means carried by the sleeve whereby the tumbler plates may be independently rotated to aline the means formed therein for permitting sliding movement of said first mentioned slidable means at times.

1,337,675. CLAMPING DEVICE FOR SHEARING-MACHINES. THOMAS HENRY WEBB and CHARLES JOSEPH RHODES, Wakefield, England. Filed May 28, 1918. Serial No. 237,126. 2 Claims. (Cl. 164—51.)



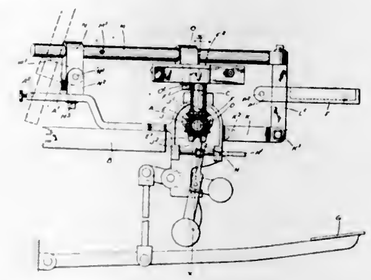
1. In a machine of the class described, including a reciprocatory member and a movable clamping member, a rack carried by said reciprocatory member, a shaft mounted in fixed bearings and having a gear engaged by said rack, and a cam on said shaft for moving the clamping member.

1,337,676. TELEPHONE SYSTEM. RAY S. WILBUR, Lyndhurst, N. J., and WILLIAM H. HARRISON, Brooklyn, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 17, 1918. Serial No. 258,505. 7 Claims. (Cl. 179—43.)



1. In a telephone system, in combination, two trunk lines joining two widely separated switchboards and looped through an intermediate switchboard, apparatus at each terminal switchboard for phantoming the two trunk lines thereby providing a phantom circuit over the trunk lines between the terminal switchboards, telephone lines terminating at the intermediate switchboard, a link circuit for establishing connection between a telephone line and one of the trunk lines, and means responsive to the connection of the link circuit with one end of a trunk line for interrupting the continuity thereof between the terminal switchboards and for maintaining the continuity of the phantom circuit therebetween.

1,337,677. WORK-HOLDING DEVICE. ALBERT RICHARD JAMES WILKINSON, Twickenham, England. Filed Sept. 18, 1918. Serial No. 254,688. 11 Claims. (Cl. 113—59.)



1. In a work holding device, the combination of a fixed bracket, a member mounted on the bracket so that its angle of inclination relatively to the bracket can be adjusted, a member rotatably carried on the adjustable member, treadle-operated mechanism by means of which the rotatable member can be turned in either direction irrespective of the angular position of the adjustable member, a work holder, mechanism actuated by the rotatable member as it rotates whereby the work holder is caused to travel to and fro, and means for guiding the work holder as it is thus moved as set forth.

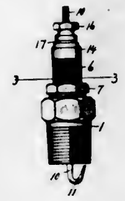
1,337,678. WRENCH. JAMES H. WILLIAMS, Leverett, Mass. Filed May 1, 1917. Serial No. 165,779. 1 Claim. (Cl. 81—98.)



A wrench comprising a shank provided with a smooth cam head jaw, a loosely swinging complementary jaw pivotally mounted thereon provided with a plurality of steps providing angular recesses adapted to receive and embrace the corner of the nut to seat varying sized nuts.

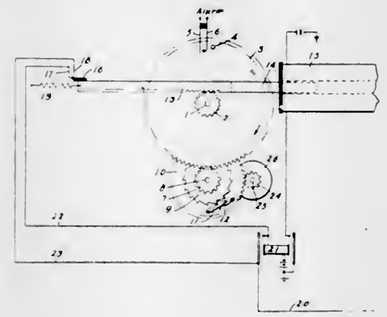
1,337,679. SPARK-PLUG. MOWRY S. WILLIAMS, Syracuse, N. Y., assignor of one-half to John R. Clancy, Syracuse, N. Y. Filed July 5, 1916. Serial No. 107,538. 1 Claim. (Cl. 123—169.)

A spark plug comprising a tubular metal bushing having its inner end provided with an inturned annular flange, a one-piece tubular insulator having its inner end inserted in the bushing and terminating against said flange and its outer end extending some distance beyond the outer end of the bushing and threaded internally, a threaded member screwing into the outer end of the bushing and engaging the insulator for holding its inner end against said flange, and an electric conductor extending entirely through and beyond the opposite ends of the insulator and having its inner end returned outwardly toward said flange and its outer end threaded and engaged with the internally threaded outer end of the insulator, whereby the turning of the spindle in reverse di-



rections will cause its inner terminal end to rotate around said flange and at the same time will vary the distance between the returned inner end of the conductor and the flange, the threaded engagement between the conductor and insulator serving to hold the conductor in its adjusted position.

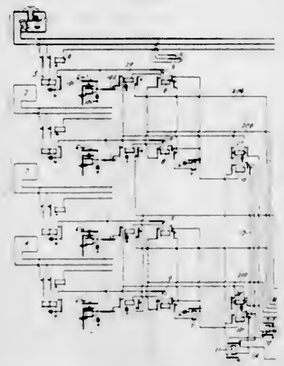
1,337,680. TIME-MEASURING SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., and WALTER P. ALBERT, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1917. Serial No. 146,671. 2 Claims. (Cl. 161—1.)



1. In a time measuring system, a contact operating member, a reciprocatory element, a conductor, a relay, a circuit for said relay, contacts closed by said reciprocatory element when said contact operating member is in normal position, whereby said relay is energized at the time said conductor is in a certain electrical condition, means for operating said reciprocatory element to open said contacts and impart motion to said contact operating member upon energization of said relay, other contacts, a circuit therefor, and means to actuate said other contacts to close the associated circuit after said contact operating member has been in operation a predetermined period of time.

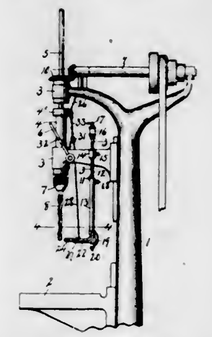
1,337,681. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 29, 1917. Ser. No. 158,231. 12 Claims. (Cl. 179—27.)

1. In an automatic telephone exchange system, a contact bank, multiple terminals of calling subscribers' lines arranged therein in groups and sub-groups, a line finder switch including a movable shaft carrying a plurality of sets of brushes, there being a set of brushes for each group of terminals, said brush sets being normally inoperative with respect to the groups of terminals to which they have access, means to advance said brush shaft into a position wherein one of said brush sets may be rendered operative with respect to the group of terminals served by it, means to advance an operated brush set in a sub-group



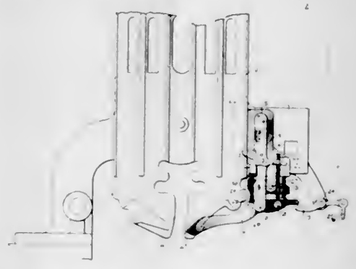
selecting movement, and means to advance said operated brush set into engagement with the terminals of a calling line.

1,337,682. OILER FOR DRILL-PRESSES. CHARLES H. WOOLSON, Syracuse, N. Y. Filed June 4, 1919. Serial No. 301,714. 3 Claims. (Cl. 77—55.)



1. In combination with a reciprocatory tool holder, a wiper movable across the path of movement of the tool, means actuated by the reciprocation of the holder for operating the wiper, and means for supplying oil to said wiper.

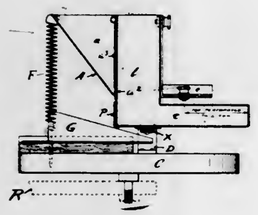
1,337,683. WEFT-CARRIER-RELEASING DEVICE. CHARLES S. WRIGHT, Hyde Park, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Mar. 12, 1919. Serial No. 282,091. 5 Claims. (Cl. 139—85.)



1. A weft-carrier releasing device for a weft replenishing magazine comprising an arm mounted on a fixed pivot,

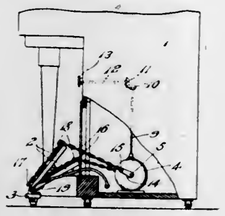
a weft carrier support pivoted to said arm, means to yieldingly hold said support in operative position, and a normally fixed connection between said arm and said magazine which yields to permit said arm to be swung rearwardly on engagement of said support by a widely misplaced weft carrier.

1,337,684. LABEL-PASTING MACHINE. SARKIS S. YENOVKIAN, Troy, N. Y. Filed July 2, 1919. Serial No. 308,139. 5 Claims. (Cl. 91—54.4.)



1. In a device of the class described, a chamber adapted to contain semi-liquid paste, a consuming chamber forming an extension on one side of said chamber, the cover of said consuming chamber having perforations therein sufficiently small to restrict the flow of the semi-liquid paste, and means for pivotally mounting said chambers whereby the consuming chamber may be depressed from, and automatically returned to, its normal position.

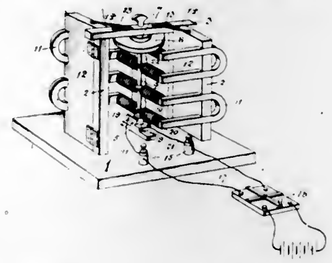
1,337,685. PEDAL-OPERATING MECHANISM. DOMENICO ANTONELLI, Philadelphia, Pa. Filed Aug. 17, 1917, Serial No. 186,797. Renewed Oct. 23, 1919. Serial No. 332,851. 2 Claims. (Cl. 74—81.)



1. In a player piano, the combination with the operating pedals thereof, of a spring-actuated motor, crank arms connected with the motor shaft, and flexible connections extending from said crank arms to said pedals, and means carried by said pedals and to which one end of the flexible connections are secured for imparting to the bellows an oscillating movement upon the active operation of said motor.

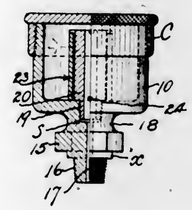
1,337,686. ELECTRIC MOTOR. SOLOMON BOARDMAN, deceased, Binghamton, N. Y., by Harriet A. Boardman and Minnie Porter Ives, administratrices, Binghamton, N. Y., assignors to Minnie A Porter Ives. Filed Apr. 7, 1916. Serial No. 89,614. 3 Claims. (Cl. 171—227.)

1. In a magneto-electric machine of the character described, a supporting frame, and an armature rotatably mounted therein, and a plurality of magnetically independent field magnets pivotally mounted in said supporting frame, and means for maintaining said field magnets



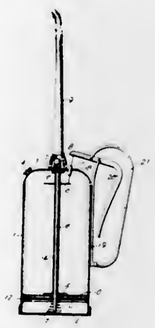
in different relative positions with regard to the armature for varying the reluctance of the magnetic circuits.

1,337,687. AUTOMATIC OILER. CHARLES L. BUBB, Williamsport, Pa. Filed Sept. 3, 1919. Serial No. 321,395. 4 Claims. (Cl. 184—69.)



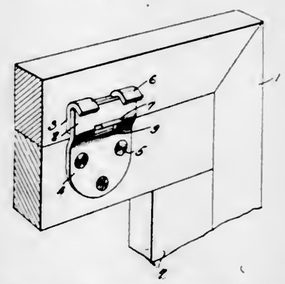
1. An automatic lubricating device for air compressors including a lubricant holding cup having a discharge passage communicating with the compressor, a sealing cap for the cup, a tubular member fitted to the cup and communicating with the discharge passage thereof and having a radial lubricant intake opening, and a sleeve loosely telescoping with the tubular member and spaced therefrom to provide a restricted annular oil feeding passage in communication with the said radial opening, and said sleeve member having means for establishing communication between the annular passage and the lubricant holding portion of the cup.

1,337,688. MACHINE-OILER. JOSEPH M. BUKACEK, Clarkson, Nebr. Filed July 14, 1919. Serial No. 310,809. 4 Claims. (Cl. 221—51.)



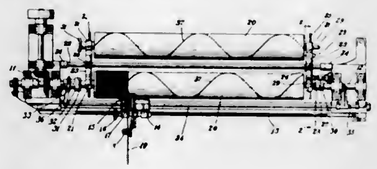
1. An oiler comprising a container having a spout, a pipe extending from near the bottom of the container and delivering to the spout, a check valve between the pipe and the spout, a plunger, a sleeve mounted to slide on the pipe and engaging at its lower end the plunger, a spring normally pressing the plunger upwardly, and means outside the container for forcing the plunger downwardly against the resistance of the said spring, said plunger having a check controlled by-pass, the means for moving the sleeve comprising a handle having a portion movable toward and from the container, a pin mounted to slide in the container and engaging the sleeve at its inner end, an elbow lever pivoted to the container and having one arm in position to engage the pin, the movable portion of the handle being connected to the lever to force the pin downward when the movable portion is moved inward.

1,337,689. STORM AND SCREEN WINDOW HANGER. STEPHEN G. CALVELAGE, Jamestown, N. D. Filed Mar. 24, 1919. Serial No. 284,609. 2 Claims. (Cl. 16—48.)



1. A hanger of the character specified, comprising a member having upper and lower hooks facing inwardly toward each other, and a complemental member having its top edge engaging under the upper hook and having an opening near its upper edge to receive the lower hook, the portion between the top edge and opening coming between and retained in place by both the upper and lower hooks.

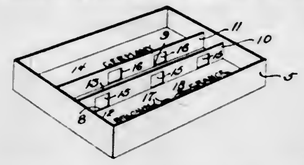
1,337,690. METHOD OF MAKING ADHESIVE-CORD STRIPS AND WINDING MECHANISM THEREFOR. FRANCIS B. CONVERSE and JAMES L. BUTLER, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 11, 1918. Serial No. 244,475. 3 Claims. (Cl. 154—2.)



1. In a winding machine, the combination of a driver, a plurality of horizontally-mounted drums adapted to be alternatively coupled with said driver so that one drum is being rotated while another is free, a support for said drums adapted to be rotated to bring them alternately into position for engagement with said driver, a guide mounted to travel back and forth parallel with the drums to feed cord onto the driven drum, and externally mounted controlling means accessible from positions in front of the machine at both ends of the driven drum for engaging said drum with the driver and disengaging it therefrom.

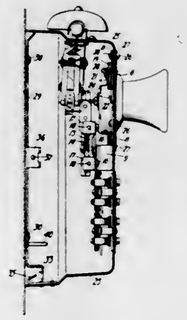
1,337,691. GAME APPARATUS. HARRY S. COOVER, Philadelphia, Pa. Filed Dec. 23, 1918. Serial No. 267,943. 2 Claims. (Cl. 46—41.)

2. Game apparatus including a tray; two partitions mounted within the tray and extending upwardly from the base thereof, said partitions being located respectively in spaced relation to the opposite sides of the tray whereby two compartments are provided adjacent the sides of the tray and an intermediate compartment is provided between said partitions; a plurality of holes in each of said partitions in spaced relation within the length there-



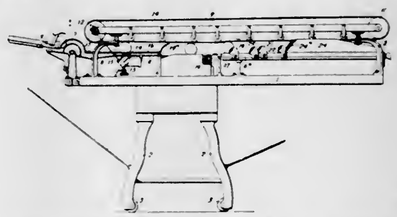
of and extending to the base of the tray; and two series of balls adapted to be initially positioned in one of said first compartments and which are capable of being rolled through said holes, the holes of each partition being out of transverse alinement with the holes of the other partition; substantially as described.

1,337,692. TELEPHONE SET. WALTER G. CRAWFORD, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1917. Serial No. 164,160. 3 Claims. (Cl. 179—100.)



1. In a telephone set, the combination with a housing having an opening therein, of an apparatus mounting plate located within said housing and comprising a flat body portion having an opening therein adapted to register with the opening in the housing, a transmitter front plate mounted external of the housing, and a transmitter capsule mounted within said openings and held under pressure against said transmitter front plate.

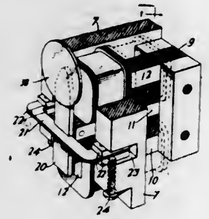
1,337,693. METHOD OF AND APPARATUS FOR WRAPPING CANS AND THE LIKE. HAYWOOD G. DEWEY, Westminster, Md., assignor to Fred H. Knapp Company, Westminster, Md., a Corporation of Maryland. Filed Apr. 4, 1917. Serial No. 159,766. 14 Claims. (Cl. 93—5.)



1. In a labeling machine, a runway for cans having applied thereto a label with an edge of the label pro-

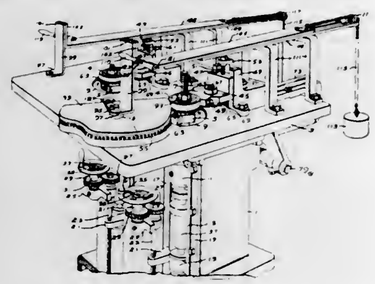
jecting beyond one end of the cans, and folding mechanism for said projecting edge of the label, comprising end folding arms projecting upwardly above the runway, and intermediate folding arms projecting upwardly from the runway, the intermediate folding arms being arranged adjacent to one another, and the end arms being spaced a considerable distance from said intermediate arms, substantially as and for the purpose described.

1,337,694. TELEPHONE-AMPLIFIER. HENRY C. EGERTON, Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 7, 1916. Serial No. 102,205. 8 Claims. (Cl. 179—171.)



1. An electromagnetic structure comprising a core having a plurality of laterally spaced pole pieces, polarizing means for said core, a winding for actuating current associated with said core, supporting means, a resilient armature carrying member associated with said supporting means, and an armature fixed to said member positioned entirely to one side of said core overlying said pole pieces and normally maintained in a definite air gap relation to said pole pieces by said member; said armature being movable in response to actuating currents in said winding to vary such air gap relation against the torsion of said member.

1,337,695. WOODWORKING-MACHINE. RAYMOND D. EMERY, Winchendon, Mass., assignor to William M. Whitney, Winchendon, Mass. Filed Nov. 8, 1917. Serial No. 200,912. 22 Claims. (Cl. 144—145.)



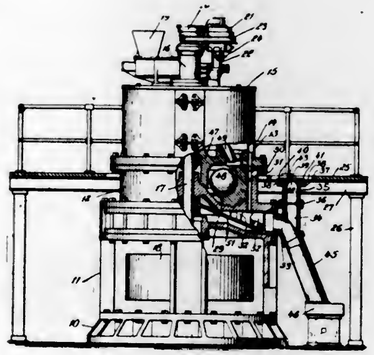
1. A machine of the character described, comprising, in combination, a pattern adapted to be connected to the work to be treated, a rotary tool for operating on the work to give the latter a contour corresponding to the contour of the pattern, an element on said pattern and an element disposed coaxially of said tool for interengagement positively to feed the pattern and work relatively to the tool, and means yieldingly to hold the work to the tool and said elements in feeding engagement, that the pattern with one of said elements and the work may move outward away from the other element to interrupt the operation of the tool on the work and the feed of the pattern and work.

1,337,696. REFRIGERATING-CABINET. MALCOLM F. EWEN, Chicago, Ill., assignor, by mesne assignments, to Montague Iron Works Corporation, a Corporation of Delaware. Filed Mar. 25, 1916. Serial No. 86,587. 4 Claims. (Cl. 257—22.)



1. In combination with the supply and return line of a refrigerating apparatus, a refrigerating cabinet comprising a casing having one or more compartments, each provided with a front opening, an open top drawer in each compartment, movable into and out of said compartment through said opening, said drawer having a front wall adapted to normally close said opening, and a refrigerating unit including a coil fixed in each compartment immediately above the space in said compartment occupied by said drawer, said coil being connected to the supply and return line of the refrigerating apparatus.

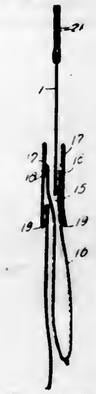
1,337,697. SAMPLING DEVICE FOR PULVERIZER-MILLS. JAMES W. FULLER, Catasauqua, Pa., assignor to Fuller-Lehigh Company, Fullerton, Pa., a Corporation of Pennsylvania. Filed Dec. 4, 1918. Serial No. 265,217. 2 Claims. (Cl. 83—45.)



1. In a pulverizer mill having grinding mechanism and a chamber adapted to receive the material after it has been pulverized, the combination of a discharge spout communicating with the chamber and comprising a downwardly directed portion through which material and air are discharged from the chamber and deflected in a downward direction, and an upwardly directed extension through which samples of material may be removed from the spout without the escape of air, and a cover attached to the top of the extension for normally closing the same.

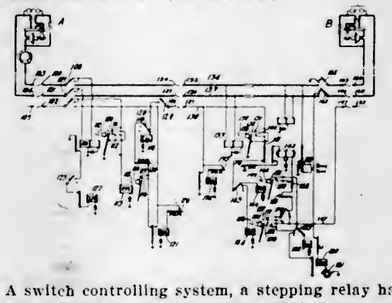
1,337,698. MAN'S GARMENT. TOMÁS GÓNGORA, San Antonio, Tex. Filed Feb. 12, 1918. Serial No. 216,775. 3 Claims. (Cl. 2—15.)

3. A reversible garment having slits forming pocket openings, and pockets in connection with the garment at each opening, said pockets being accessible from either face of the garment, each pocket being connected to the



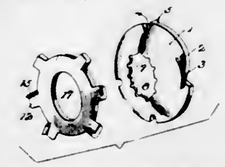
garment at its top only to swing through the slit to either face of the garment.

1,337,699. TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1917. Serial No. 164,224. 12 Claims. (Cl. 179—18.)



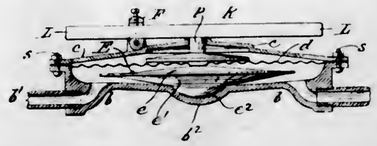
1. A switch controlling system, a stepping relay having two sets of contacts, one set of contacts being responsive to each actuation of said relay, the other set of contacts being responsive to a series of actuations of said relay, a switch, a magnet for operating said switch, a circuit for said operating magnet completed through said contacts, said magnet having a set of contacts arranged to be closed during the actuation of said magnet, a circuit controlling switch, a magnet therefor, and a circuit for said last mentioned magnet completed at the contacts of said operating magnet.

1,337,700. NUT-LOCK. FREDERICK L. HEMMER, Lincoln, N. J., assignor, by direct and mesne assignments, of one-third to John L. Schneider, New Market, N. J., and one-third to Michael Augustus Eganey, Boundbrook, N. J. Filed July 17, 1919. Serial No. 311,547. 6 Claims. (Cl. 151—15.)



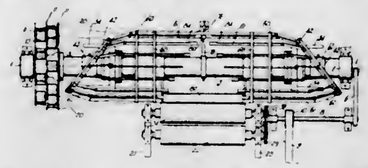
1. In a nut lock, a continuous unbroken concavo-convex washer having its convex side presented to the nut and provided with inwardly projecting teeth around its opening adapted to indent the threads on the bolt when the washer is flattened by tightening up the nut, and means for permitting the turning of the nut in one direction over the washer but checking its rotation in the other direction.

1,337,701. FLUID-TEMPERATURE REGULATOR. WILLIAM HODGSON, New York, N. Y. Filed May 24, 1919. Serial No. 299,639. 3 Claims. (Cl. 236—26.)



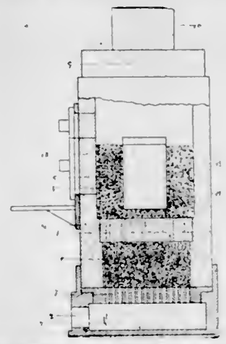
1. The combination with a fluid temperature regulator of the character designated, comprising a fluid pressure chamber having a peripherally attached and hermetically sealed diaphragm forming one side of said fluid pressure chamber, and a power transmitting plunger resting loosely on said regulator diaphragm, of a thermotic control element positioned in said pressure chamber between its base and said regulator diaphragm, and comprising a unitary structure detachable from the other parts of the regulator and coisting of an elastic resilient diaphragm and a sustaining plate hermetically joined and confining between them a volatile fluid, for the purpose described.

1,337,702. PAPER-REINFORCING MACHINE. CHARLES H. HOWARD, Saugus, Mass., assignor to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1916. Serial No. 112,599. 26 Claims. (Cl. 154—1.)



1. In a machine of the character described, the combination of means for guiding material to be reinforced by transversely extending filaments, drawing and distending arms, means comprising two series of cams for moving said arms in a direction transversely of their length, and means for moving said drawing and distending arms longitudinally as they are moved transversely to draw and distend a series of threads in succession for application to the material to be reinforced.

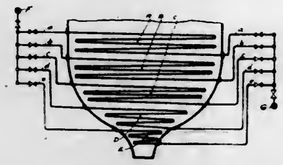
1,337,703. METALLURGICAL FURNACE. SAMUEL M. HOWELL, Zanesville, Ohio. Filed July 1, 1919. Serial No. 308,026. 2 Claims. (Cl. 158—1.)



1. In a metallurgical furnace using air and gas or a hydrocarbon vapor as fuel, the combination of a mixing

chamber containing a body of metallic chips with a refractory upper retaining plate substantially as set forth and described.

1,337,704. METHOD OF BOILING INDIRECTLY. ROLF HARALD HULT, Hyltebruk, Sweden. Filed Oct. 24, 1917. Serial No. 198,358. 5 Claims. (Cl. 92—7.)



1. The method of indirectly boiling liquid, consisting in first leading a heating agent through each of a plurality of parallelly-coupled heating elements submerged in said liquid, and then connecting said heating elements in series and leading a heating agent through said serially-connected elements for a desired period of time.

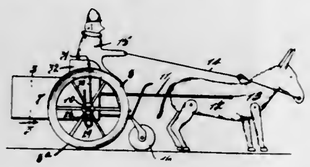
2. The method of indirectly boiling liquid, consisting in first leading a heating agent through each of a plurality of parallelly-coupled heating elements submerged in said liquid, and then leading a heating agent through serially-connected heating elements submerged in said liquid.

3. The method of indirectly boiling liquid, consisting in first leading a heating agent through each of a plurality of parallelly-coupled heating elements submerged in said liquid, and until the temperature of said liquid is raised to about the boiling point, and then leading a heating agent through serially-connected heating elements submerged in said liquid, and raising the temperature of the latter to any desired point above the boiling point.

4. The method of indirectly boiling liquid consisting in first leading steam together with water of condensation through each of a plurality of parallelly-coupled heating pipes submerged in said liquid, and until the temperature of said liquid is raised to about the boiling point, and thereafter connecting said heating pipes in series and leading steam together with water of condensation through said serially-connected pipes, until the temperature of the liquid is raised to any desired point above the boiling point.

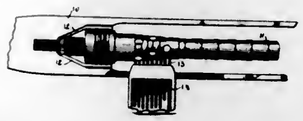
5. The method of indirectly boiling lye-liquid in the manufacture of sulfite cellulose, consisting in first leading a heating agent through each of a plurality of parallelly-coupled heating elements submerged in said liquid, and until the temperature has been raised to about 100–105° C., and then connecting said heating elements in series and leading a heating agent through said serially-connected elements until the temperature of the liquid has been raised to about 138° C.

1,337,705. MECHANICAL TOY. JOSEPH V. IAENIUS, Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y., a Corporation of New York. Filed May 26, 1919. Serial No. 299,944. 5 Claims. (Cl. 46—45.)



1. In a toy, a body member, a rotatable axle carried thereby, a crank carried by said axle, wheels carried by said axle, a rod actuated by said crank, a cross-bar connected to said rod at its upper end, said cross-bar being pivotally supported by the body member, and a toy figure secured to said cross-bar arranged for a rocking movement when said rod is actuated by the crank on said axle, said figure being supported clear of the body member.

1,337,706. WEFT-BOBBIN. LAWRENCE B. JENCKES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 14, 1919. Serial No. 277,037. 4 Claims. (Cl. 242—120.)



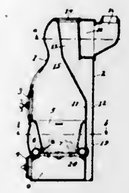
4. A weft bobbin for use with a weft detecting mechanism having a plurality of detecting members, having a substantially conical portion adjacent the butt, and having a plurality of annular series of holes through said portion, each series containing the same number of holes, and the overlap of the edge of each hole beyond the edge of the corresponding hole in each adjacent series being at least equal to the diameter of one of the weft detecting members.

1,337,707. PNEUMATIC CORE FOR USE IN REPAIRING TIRES. ALVIN L. JOHNSON and ALFRED O. ALSTEN, Worcester, Mass., assignors of one-fourth to Horatio C. Goulding and one-fourth to John A. Alsten, Worcester, Mass. Filed Dec. 9, 1914. Serial No. 876,368. 8 Claims. (Cl. 18—45.)



1. As an article of manufacture, a core for the purpose described, comprising a flexible inner tube and an outer bag formed of frictioned material and having a longitudinal slit to permit it to be expanded circumferentially, and provided with means for preventing its being expanded or extended longitudinally.

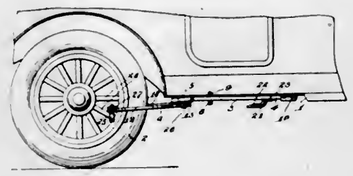
1,337,708. HEATER. BERTRAND B. KAHN, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio. Filed Dec. 23, 1918. Serial No. 267,968. 2 Claims. (Cl. 126—67.)



1. The combination with the front, side, and back walls of a heater having an upper smoke outlet, of an inner transverse wall extending the width of the heater structure and spaced from the back wall to form a fresh air flue open at the bottom of the heater, an upper central hot air flue forming a continuation of said fresh air flue, and a rear smoke chamber formed in the heater above said transverse wall and communicating with the interior of the heater around said hot air flue, a firepot

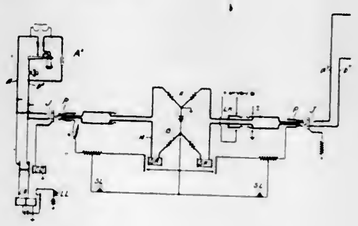
having its top joining said front, side, and transverse walls and formed with lower ports at the front and rear, a fire door, a grate, and burner pipes, having jet holes, between the heater front and fire pot and between the transverse wall and firepot adjacent said ports.

1,337,709. VEHICLE-LOCK. JACOB P. LIND, Columbus, Ohio. Filed Oct. 17, 1919. Serial No. 331,267. 3 Claims. (Cl. 70—90.)



1. A lock for motor vehicles comprising a base member, means for securing said base member to the under side of a running board of a motor vehicle, a pivoted section carried by said base member, jaws pivotally carried by said section and arranged when in an inactive position to underlie said base member, and when in an active position to surround the driving wheel of a motor vehicle, and means whereby said jaws may be simultaneously operated.

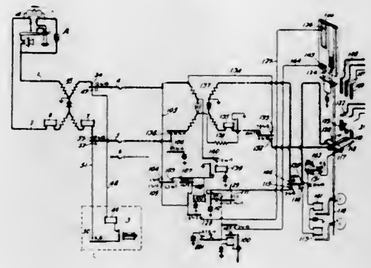
1,337,710. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed June 7, 1915. Serial No. 32,618. 12 Claims. (Cl. 179—27.)



1. In a telephone exchange system, the combination with a manual board, calling subscribers' lines terminating in jacks therein, a cord circuit having an answering and a calling plug, a calling supervisory lamp associated with said cord circuit, a semi-automatic board, trunk circuits consisting of two wires only, said trunk circuits terminating at one end in jacks at said manual board and at the other end in selectors at said semi-automatic board, connectors at said semi-automatic board, called subscribers' lines terminating therein, means including a sender at said semi-automatic board for setting said connectors on called lines, and means actuated by the busy condition of the called line to cause said supervisory lamp to flash intermittently.

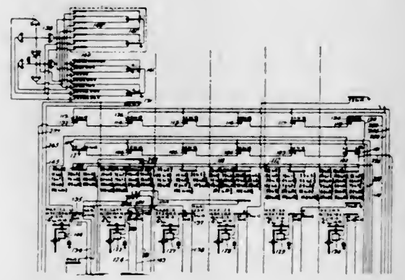
1,337,711. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 16, 1916. Serial No. 115,208. 5 Claims. (Cl. 179—27.)

1. In a telephone exchange system, a calling subscriber's line, a train of automatic switches by which said line may be connected to any other desired line, each of said switches having terminals for use in obtaining a connection, certain of the terminals of one of said switches being unequipped as regards substation line connections, an



operator's position associated with said unequipped terminals, and means at said position for controlling the operation of the last named switch when connected to unequipped terminals.

1,337,712. TELEPHONE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1917. Serial No. 195,718. 7 Claims. (Cl. 179—27.)

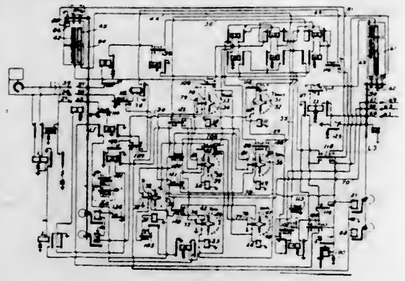


1. In a telephone system, an incoming line, an outgoing line, means for connecting said incoming line to said outgoing line, a source of ringing current, a variably operable signal, means for associating said signal with said incoming line, means operated by the connection of said incoming line with said outgoing line for disassociating said signal from said incoming line, and means operated in disassociating said signal from said incoming line for connecting said source of ringing current to said outgoing line.

1,337,713. TELEPHONE SYSTEM. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1916. Serial No. 139,835. 10 Claims. (Cl. 179—18.)

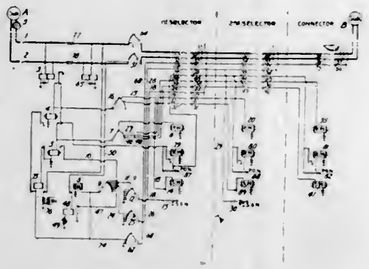
1. In a telephone exchange system, calling and called lines, a trunk line adapted to be utilized in establishing a connection between such calling and called lines, a line finder switch adapted to hunt for and seize a calling line, means controlled by the operation of a line finder to

associate the trunk line with the calling line independent of such line finder, and means controlled through



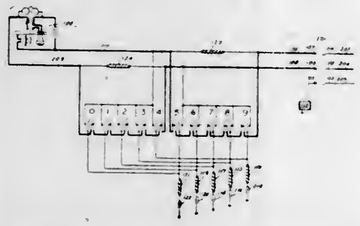
contacts of the line finder to associate the trunk line with the called line.

1,337,714. AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 2, 1917. Serial No. 178,234. 10 Claims. (Cl. 179—18.)



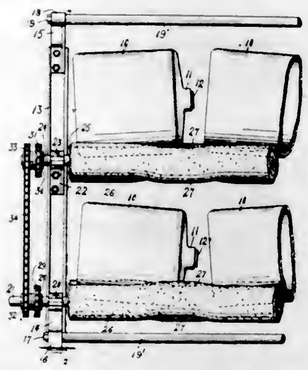
1. In a telephone exchange system, calling and called subscribers' lines, a plurality of switch devices for interconnecting a calling and a called line, a test circuit for each of said switch devices, and a test relay common to said test circuits.

1,337,715. TELEPHONE SYSTEM. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1918. Serial No. 228,413. 10 Claims. (Cl. 179—18.)



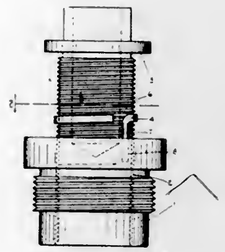
1. In a telephone system, a circuit, variably operable automatic switches, a plurality of sources of current connected to said circuit, each being of a different frequency, electromagnetic devices included in said circuit for controlling the variable operation of said switches, and means for placing said circuit in condition of resonance for each one of said sources of current to selectively operate said electromagnetic devices.

1,337,716. MIXING AND GRINDING APPARATUS IRREGULARLY OPERATED. ROBERT D. MADDOX, U. S. Army. Filed Feb. 11, 1919. Serial No. 276,432. 4 Claims. (Cl. 259—72.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. An apparatus of the class described including a pair of uniformly rotatable rollers having offsets therein and disposed in lateral spaced relations, said rollers being adapted when rotated to impart oscillatory and tilting vibrations to the content of containers located thereon.

1,337,717. GREASE-CUP. ALBERT W. MARTIN, Indianapolis, and JACOB N. MARTIN, Beech Grove, Ind. Filed Apr. 12, 1919. Serial No. 289,693. 2 Claims. (Cl. 184—48.)

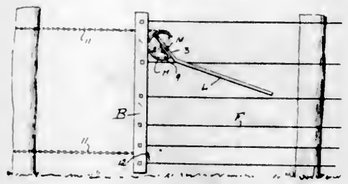


2. In a grease cup construction, including a bowl of a grease cup and a feed plunger adapted to be turned into said bowl, the combination of a collar surrounding said plunger and having corresponding threads thereon, the outer surface of said collar having an annular and a longitudinal recess therein, of a split locking ring adapted to surround said collar and be seatable in said annular recess, one end of said ring being adapted for frictional engagement with said collar to hold the same and the plunger against casual rotation, the other end of said ring having a downwardly extending portion seatable in said longitudinal recess, and means for anchoring the downwardly extending portion of said ring to the bowl of the grease cup for holding the ring against rotation with the collar and plunger.

1,337,718. CLEANSING OF FERROUS AND NON-FERROUS METALS. SUMNER R. MASON, Wilmette, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1918. Serial No. 252,474. 6 Claims. (Cl. 204—7.)

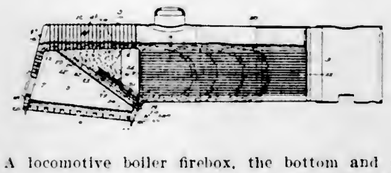
3. An electrolyte for the cleansing of metals formed in the proportions of about 32 grams of cyanid to one liter of water, 4 grams of hydrate, and 8 grams of an organic agent.

1,337,719. IMPLEMENT FOR PUSHING AND PULLING. OSCAR E. MOUSA, Fairbury, Ill. Filed June 4, 1919. Serial No. 301,634. 1 Claim. (Cl. 254—78.)



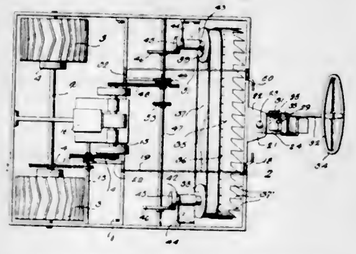
An implement of the class described comprising a substantially arcuate head provided with engaging means at one end portion, the opposite end portion being provided with an inwardly directed radial arm terminating at substantially the axial center of the head, said head substantially in alinement with the arm being provided with an opening, a lever overlying the arm and having an end portion secured within the opening of the head, and means for securing the lever to the arm.

1,337,720. LOCOMOTIVE-BOILER. JOHN L. NICHOLSON, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1918. Serial No. 268,260. 55 Claims. (Cl. 122—68.)



1. A locomotive boiler firebox, the bottom and rearward portion of which constitutes a single fire chamber and the upper and forward portion of which is divided into a plurality of combustion passages by one or more hollow, substantially vertical, water-steaming walls, each having a restricted inlet at the bottom, and which, by thermal action, operate to cause a circulatory flow of water from the part of the boiler below the body of flues therein to the part above the crown sheet of the firebox.

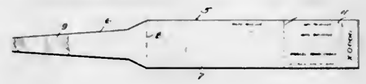
1,337,721. WEEDING-MACHINE. ALONZO E. PIPER, White City, Fla. Filed Oct. 31, 1918. Serial No. 260,520. 14 Claims. (Cl. 97—66.)



1. In a weed cutting machine, the combination, of a supporting frame, an endless cutter having cutting teeth formed upon one edge portion thereof and being positioned at an acute angle to the horizontal, the points of teeth extending toward the rear of said supporting frame.

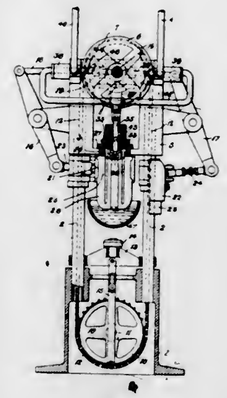
2. In a weed cutting machine, the combination, of a supporting frame, parallel shafts journaled on the frame, means for rotating said shaft, flanged pulleys on said shaft, a belt passing about said pulleys, a band cutter riveted to said belt near one edge and cutting teeth formed upon one edge of the band cutter.

1,337,722. BAGGAGE-CHECK. ROBERT L. PORTER, Chicago, Ill. Filed Jan. 22, 1917. Serial No. 143,745. 1 Claim. (Cl. 40—5.)



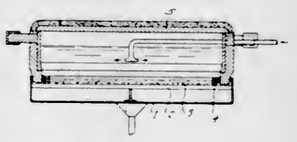
The herein described baggage check formed of a single strip of material including an intermediate body portion, a tongue no longer than the body and connected at one end thereof and demarked therefrom by a fold line represented thereon, and an identification portion at the other end of the body and connected therewith by a weakened line, one face of the tongue near its outer end having adhesive whereby when bent inward on said fold line it may be stuck to the body short of the identification portion, as described.

1,337,723. GLASS SHAPING AND BLOWING MACHINE. EMILE ROIRANT, St.-Ouen, France, assignor to Arthur Wilzin, St.-Ouen, France. Filed Oct. 9, 1917. Serial No. 195,547. 8 Claims. (Cl. 49—9.)



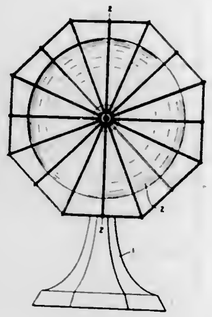
1. In a machine for the manufacture of hollow glass articles, the combination of a two-part hinged parison mold, means for conveying liquid glass to the bottom of said mold, means for simultaneously exhausting the air from said mold, a two-part finishing mold, means for opening said parison mold and simultaneously closing said finishing mold about a common fixed axis, and stationary supports on which said molds are hinged.

1,337,724. ELECTROLYZING APPARATUS. CLAUS NISSEN RIIBER, Trondhjem, Norway, assignor to Norsk Alkali A/S, Trondhjem, Norway. Filed Mar. 27, 1919. Serial No. 285,669. 4 Claims. (Cl. 204—5.)



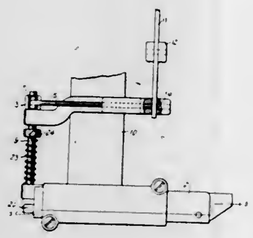
1. An electrolytic apparatus comprising a substantially horizontal diaphragm consisting of a layer or loose porous material, an anode-chamber wall about said diaphragm, a member of stable material in said chamber and spaced from said wall to form a trough adjacent the wall, and a layer of pasty, liquid-penetrable material in said trough.

1,337,725. ELECTRIC HEATING UNIT. EDWIN A. RUTENBER, Marion, Ind., assignor to Rutenber Electric Co., Marion, Ind., a Corporation. Filed Apr. 22, 1918. Serial No. 230,024. 1 Claim. (Cl. 219—34.)



In a heating device, the combination with a reflector having an opening at its axial center, of a heating coil, an elongated insulating core on which said coil is spirally wound, a spacing block for insulating the heating coil from the reflector, a base block, and a bolt extending axially through said core, spacing block and base block for locking them together and securing them in position.

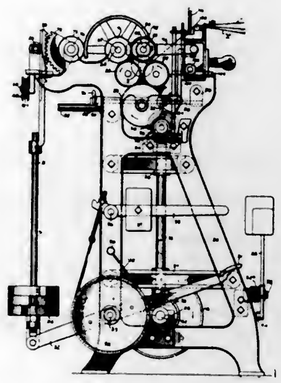
1,337,726. WEFT-DETECTOR FOR LOOMS. EPPA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 2, 1918. Serial No. 209,818. 3 Claims. (Cl. 139—85.)



1. A weft detecting mechanism comprising a stand; a slide movably mounted thereon, an actuator, a member controlling said actuator and normally positioned to render said actuator operative, connections between said member and said slide, a single detector movably mounted direct on said slide, and a spring yieldingly holding said detector in position to engage a weft carrier, said detector and slide being movable in a straight line as a unit and in fixed relative position by engagement of said detector by a sufficient supply of weft on an active weft carrier, and said detector being movable relatively to said slide by engagement of said detector by a substantially exhausted weft carrier.

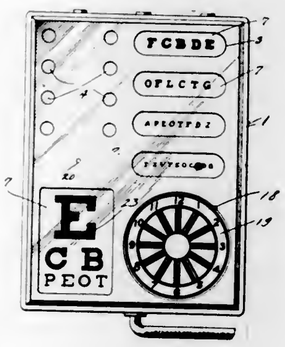
1,337,727. WINDING-MACHINE. EPPA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 3, 1919. Serial No. 287,227. 11 Claims. (Cl. 28—14.)

1. A winding machine having, in combination, a plurality of spool-engaging rolls including a pressure roll, means to drive said rolls, friction means to yieldingly resist outward movement of said pressure roll as the



spool increases in diameter, and a detachable connection between said pressure roll and said friction means operable independently of said friction means.

1,337,728. CABINET FOR EXHIBITING EYE-TESTING DEVICES. JOHN M. SCOTT, St. Louis, Mo., assignor to M. E. Green Manufacturing Company, St. Louis, Mo. Filed Sept. 17, 1918. Serial No. 254,438. 7 Claims. (Cl. 40—132.)

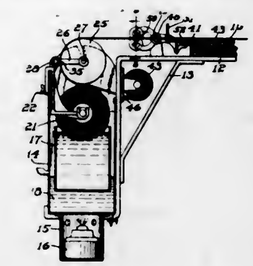


1. An eye testing cabinet, comprising a casing having a removable front face composed of two laterally spaced transparent plates arranged one in front of the other, an opaque mat disposed between said plates and having openings therein, charts carried by said mat over said openings, said casing having chambers arranged in the rear of said plates and opposite said charts, and illuminating means for said chambers.

1,337,729. MEANS FOR APPLYING PASTE OR THE LIKE TO PAPER. BERT SELBY, Indianapolis, Ind. Filed Feb. 10, 1919. Serial No. 276,230. 5 Claims. (Cl. 91—14.)

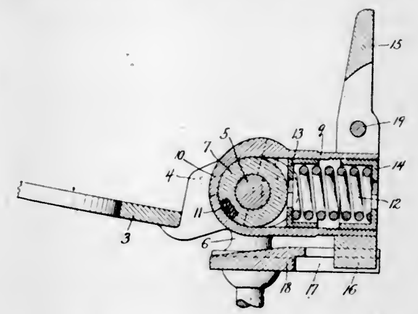
5. A paste applying mechanism, including a housing, a paste containing receptacle in said housing, a rotary paste applying member adapted to have its periphery

immersed in paste, a paper carrying roller mounted adjacent said member for causing the paper to be engaged by



said member and receive a coating of paste thereover, and means for adjusting said roller and receptacle within said housing.

1,337,730. CLOSET-SEAT. WILLIAM E. SLOAN, Chicago, Ill. Filed Mar. 17, 1913, Serial No. 754,721. Renewed Sept. 4, 1919. Serial No. 321,658. 6 Claims. (Cl. 4—18.)



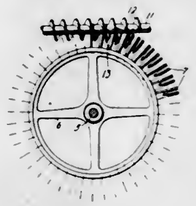
1. A closet seat device comprising a closet seat, a hinge therefor, a flush valve in proximity to said hinge, an actuating part for said flush valve, a sliding part, an operating part connected therewith, adapted when moved in one direction to operate the actuating part of said flush valve, means connected with said hinge for sliding said sliding part in one direction when said seat is moved, and a spring inclosed in said sliding part for sliding it in the opposite direction.

1,337,731. SMOKE-FLUE. JOHN A. SPEAKS, Stella, Mo. Filed Mar. 4, 1918. Serial No. 220,318. 1 Claim. (Cl. 98—4.)



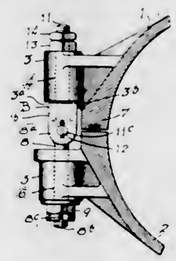
A flue comprising a plurality of walls arranged to provide a hollow body, inwardly directed flanges carried by two of the opposed walls rigidly conected with the intermediate walls, said flanged walls being extended a distance beyond the intermediate walls at one terminal to provide anchoring members adapted for insertion in a chimney or smoke stack, and lips struck out from the extended portions of the flanged walls extending in the horizontal plane of the bottom edges of the intermediate walls adapted to engage the top of a chimney or smoke stack and maintain the flue in position thereon, and longitudinally spaced transversely disposed shutter portions struck out from the walls and extending upwardly and inwardly within the flue.

1,337,732. MAGNETIC GEARING. HUGH M. STOLLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 7, 1916. Serial No. 129,985. 6 Claims. (Cl. 172—239.)



1. A gearing mechanism comprising a rotatable gear having a plurality of radial magnetic extensions, adjacent extensions being of unlike magnetic polarity, and a spiral armature out of mechanical engagement with said gear at all times mounted to rotate adjacent to some of said magnetic extensions.

1,337,733. FILTER-CASING. ERNEST J. SWEETLAND, Montclair, and CARROLL M. STANLEY, Newark, N. J., assignors to United Filters Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed June 19, 1918. Serial No. 240,877. 6 Claims. (Cl. 220—32.)



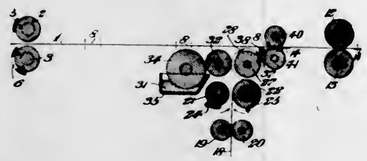
1. In a hollow casing, the combination with two complemental casing members which are provided with meeting edge portions and having thereat corresponding openings, hinge bolts extending loosely through the openings, a hinge pintle connecting the inner ends of the said bolts, and means for locking both of the hinge bolts in an adjusted position within the respective openings for adjusting and maintaining the hinge pintle in the plane of said meeting edge portions of the casing members.

1,337,734. MECHANISM FOR MAKING OPEN-FACE ENVELOPS. GEORGE W. SWIFT, Jr., Bordentown, N. J. Filed July 28, 1915. Serial No. 42,250. 14 Claims. (Cl. 93—61.)

1. Mechanism for making open face envelops, including means arranged to continually progress an envelop web at a uniform rate while forming a series of openings therein; means arranged to continually progress a web of transparent material, means arranged to cut from said transparent web pieces adapted to form respective

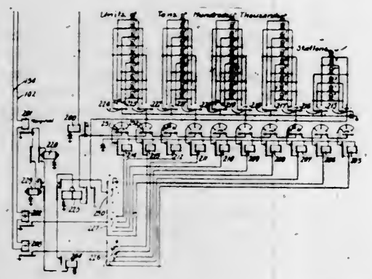
individual patches to cover the openings in said envelop web, means arranged to provide each of said severed individual patches with an imprint of adhesive material, and means for applying the patches successively to the openings in the envelop web.

1,337,735. METHOD OF MAKING OPEN-FACE ENVELOPS. GEORGE W. SWIFT, Jr., Bordentown, N. J. Filed Aug. 4, 1915. Serial No. 43,555. 8 Claims. (Cl. 93—61.)



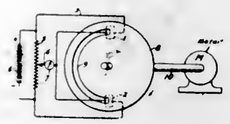
1. The method of making open face envelops which consists in progressing a web at a uniform rate while forming a series of openings therein, in such spaced relation that said web may be subsequently divided to form individual envelop blanks each including one of said openings; providing separate individual patches to cover the openings in said envelop web; providing each of said separate individual patches with an imprint of adhesive material; successively presenting said adhesive patches adjacent said envelop web; successively pressing said adhesive patches upon the envelop web in registry with the openings therein; dividing said envelop web to form respective individual envelop blanks each including one of said openings, covered by one of said patches; and folding said blanks to form envelops.

1,337,736. TELEPHONE-EXCHANGE SYSTEM. TUDOR VAN AMSTEL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1919. Serial No. 274,758. 12 Claims. (Cl. 177—353.)



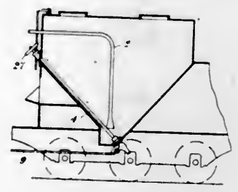
1. In a signaling system, an indicating device comprising a plurality of signals and a plurality of selectively operable step-by-step switches, a selectively operable step-by-step switch for controlling the sequence of operation of said first switches, a signaling circuit over which said indicating device is controlled, and means for propagating and transmitting impulses of certain characteristics to control said first switches and for propagating and transmitting impulses of other characteristics to control said second switch.

1,337,737. PRODUCING CURRENTS OF DESIRED WAVE FORM. HENDRIK J. VAN DER BIJL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,237. 15 Claims. (Cl. 250—1.)



1. In combination, a pair of electric circuits each containing a source of electromotive force, a radiant energy sensitive device controlling each circuit, said circuits having a common return branch to their respective sources of electromotive force, said sources having opposing terminals connected to said return branch, and means for periodically varying the light energy affecting said devices.

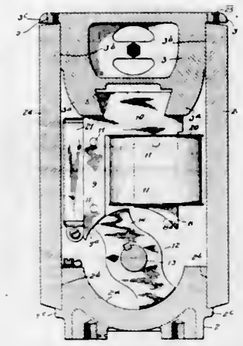
1,337,738. FEEDING DEVICE FOR PULVEROUS FUEL IN FURNACES FOR LOCOMOTIVES AND THE LIKE. KARL HJALMAR VILHELM VON PORAT, Stocksund, Sweden, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Filed Oct. 12, 1916. Serial No. 125,223. 12 Claims. (Cl. 193—10.)



1. In a feeding device for pulverulent fuel for furnaces, the combination of a powder receptacle, a fuel pipe extending from said receptacle to the furnace, a pipe for supplying air or other gaseous medium into the mass in said receptacle, means for causing an air current or currents from said air supply pipe to penetrate, whirl up and bring along with it a quantity of fuel from the receptacle through the fuel pipe, means for preventing said current from flowing in a straight line from the discharge part of the gas supply pipe into the receiving opening of the fuel pipe, said discharge part being rotatably mounted in the receptacle, and means for varying the distance between the discharge part of the air supply pipe and the receiving opening of the fuel pipe by an angular adjustment of said part without moving it endwise.

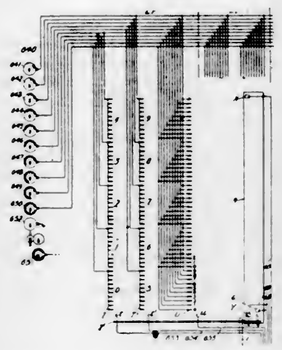
1,337,739. ELECTRIC GENERATOR. FRED J. WHITCOMB, Cleveland, Ohio, assignor to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 3, 1919. Serial No. 287,105. 6 Claims. (Cl. 171—209.)

1. In an electric generator, the combination of a pair of stator pole pieces spaced apart and having opposite polar faces, a rotor operatively mounted between the pole pieces to coöperate with the polar faces thereof, and means for holding the pole pieces in a definite spaced relation to each other comprising rigid connecting members



and screw devices adapted to exert thrust from one pole piece through said connecting members to the other pole piece.

1,337,740. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., and CHARLES F. BALDWIN, deceased, by Florence D. Baldwin, administratrix, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1919. Serial No. 273,118. 16 Claims. (Cl. 179—27.)



1. The combination with a plurality of lines and an extension circuit therefor, of a finder switch for connecting said extension circuit with a calling line, sources of characteristic current, a number indicating device, and switch mechanism associated with said extension circuit and automatically operated to select various of said characteristic currents in accordance with the calling line number, and to successively connect them to said indicating device to cause it to identify the calling line.

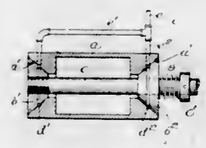
1,337,741. TELEPHONE-RECEIVER. JAMES A. WOTTON, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 3, 1917. Serial No. 200,055. 5 Claims. (Cl. 179—167.)

1. In a telephone receive, an annular casing having an opening in the side thereof, a member mounted within the casing and having a knife edge fulcrum located in such opening, an operating lever resting on said fulcrum and coöperating therewith to substantially close such opening throughout its operation, the short arm of said lever extending within said casing and the long arm thereof protruding from said casing and shaped to substantially



conform to the exterior of said casing, and a plurality of contacts located within said casing and controlled by the actuation of said lever.

1,337,742. GAS-LUBRICATED BEARING. WILLIAM GEORGE ABBOTT, Jr., Wilton, N. H. Filed May 4, 1916. Serial No. 95,466. 3 Claims. (Cl. 64—47.)



1. A fluid bearing comprising two relatively rotatable elements having two sets of complementary tapering bearing surfaces, the respective sets of surfaces tapering in opposite axial directions, and means for supplying gaseous fluid under pressure to points between each set of surfaces, whereby lateral pressure between the elements and relative end thrust in both directions will be pneumatically restrained.

1,337,743. VESSEL-FILLING DEVICE. THEODORUS S. BAILEY, Berkeley, Calif. Filed Nov. 26, 1918. Serial No. 264,223. 3 Claims. (Cl. 226—101.)

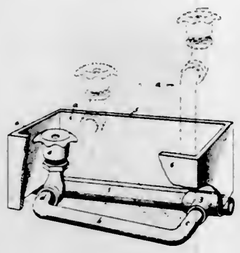


1. A device for filling a tubular receptacle with plastic material, comprising an elongated body member of relatively stiff material for insertion thereinto to the full depth of said receptacle, said body member formed in one face with a longitudinally disposed material receiving groove open at one end of said body member, said member provided at one end with a handle for closing the opposite end of said groove, and a ferrule slidable longitudinally of said body member for shaping the material received in said groove.

1,337,744. SPRINKLER SYSTEM FOR IRRIGATING LAWNS, GARDENS, FIELDS, AND THE LIKE. WILLIAM D. BALLERSTEDT, Los Angeles, Calif. Filed Apr. 17, 1917. Serial No. 162,794. 2 Claims. (Cl. 299—60.)

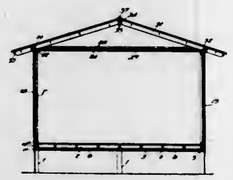
1. In a sprinkling system, a water main below the ground surface, a T joint in said main having a stem laterally positioned with respect to said main, a U-shaped pipe having both ends threaded, one end of which is screwed into the stem of said T joint, an L screwed onto

the other end of the U, and a sprinkling nozzled screwed onto said L, all said joints being loose enough to allow



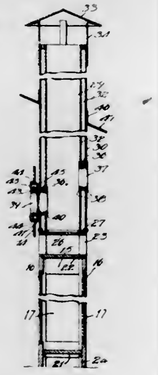
them to be turned in order to raise or depress the nozzle above or below the ground surface and below the nozzle in any direction for sprinkling.

1,337,745. PORTABLE BUILDING. ROLLO S. BASSETT, Champaign, Ill. Filed Feb. 25, 1918. Serial No. 218,960. 10 Claims. (Cl. 20—2.)



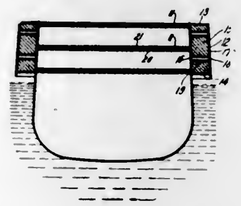
6. A portable building comprising groups of floor, wall, and ceiling sections, the sections in each of said groups being interlocked, and each section of the floor and ceiling groups being adapted to engage the wall sections and to extend from one side wall to the other and having an interlocking engagement with each of said walls.

1,337,746. CHIMNEY. ROLLO S. BASSETT. Champaign, Ill. Filed Aug. 2, 1918. Serial No. 247,901. 3 Claims. (Cl. 20—2.)



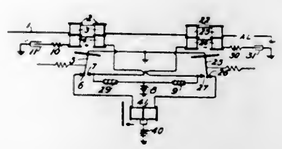
1. In a portable building, a floor, a cabinet thereon providing a storage compartment, a chimney mounted upon said cabinet and extending upwardly therefrom through the roof of said building, said chimney being movable bodily into and out of position on said cabinet, whereby said chimney may be removed from said building without injury to either.

1,337,747. MARINE VESSEL. JOSEPH BATORFY, New York, N. Y. Filed Nov. 10, 1919. Serial No. 337,093. 2 Claims. (Cl. 114—68.)



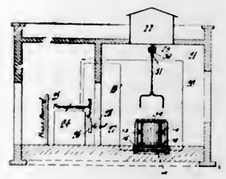
1. The combination with a ship's hull, of a casing-like construction extending all around said hull above the water line thereof, the bottom of said casing-like construction being formed by a grating, said casing-like construction projecting outwardly from said hull and being filled with buoyant material resting on said grating.

1,337,748. TELEGRAPH SYSTEM. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1917. Serial No. 203,083. 7 Claims. (Cl. 178—88.)



1. In a telegraph receiver, a first and a second impulse receiving means, and means controlled by each one of said impulse receiving means for accelerating the response to impulses respectively by the other receiving means.

1,337,749. PROCESS FOR PREPARING VARNISH. CHARLES T. BRAGG, Detroit, Mich., assignor to Max Baer and Abe Baer, New York, N. Y. Filed Jan. 29, 1919. Serial No. 273,816. 2 Claims. (Cl. 134—26.)

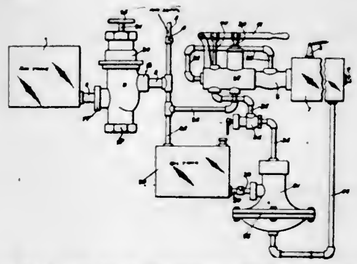


1. In the art of varnish making, that step which consists in placing the vessel containing the varnish ingredients within an inclosure, subjecting said inclosure to radiant heat from an electric heating element disposed within an inclosure exterior of the said first mentioned inclosure, the interior of said first mentioned inclosure and the approach thereto being at all times segregated from direct exposure to said heating element.

1,337,750. METHOD OF MANUFACTURING NITROGEN COMPOUNDS FROM CARBIDS. OSCAR FREDRIK SVANTE CARLSON, Ljungaverk, Sweden, assignor to Aktiebolaget Nitrogenium, Stockholm, Sweden. Filed July 29, 1916. Serial No. 112,067. 1 Claim. (Cl. 23—13.)

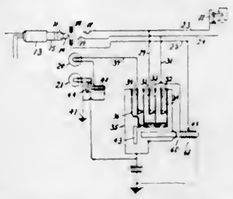
The herein described method of manufacturing nitrogen compounds in a vertical shelf furnace from carbid and nitrogen, consisting in heating the carbid intimately mixed with indifferent and catalytic substances in the furnace in presence of nitrogen and stirring the carbid mixture on its way through the furnace on each shelf to regulate the temperature and fluidity of the mass, the intensity of such stirring being determined by the amount of indifferent and catalytic substances added.

1,337,751. PRESSURE-GENERATING SYSTEM. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey Rotary Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed June 7, 1919. Serial No. 302,574. 14 Claims. (Cl. 60—44.)



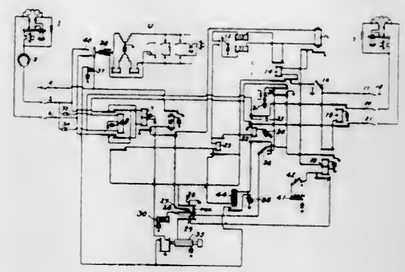
1. In an air pressure generating system, the combination of an air supply and an auxiliary air pressure tank in communication with said air supply, of a valve between said air supply and said pressure tank, operable to control the pressure for inducing the pressure in said tank, and to release the air from said tank, a fuel liquid tank, a fuel valve controlling the passage of fuel from said fuel liquid tank, an air valve controlling said air supply, a mixing nozzle for receiving and mixing the air and fuel admitted thereto by said last-named fuel and air valves, and a combustion chamber in connection with said air chamber and nozzle.

1,337,752. TELEPHONE SYSTEM. LOUIS W. CARROLL, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 24, 1916. Serial No. 133,154. 2 Claims. (Cl. 179—73.)



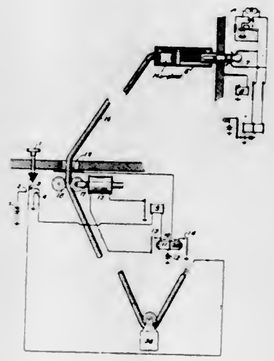
1. A telephone system comprising a telephone line extending from a subscriber's station to a central office, an electromagnetic relay having an energizing winding normally connected with the line and partially energized over the line upon the removal of the receiver from the switchhook, a signaling device operating upon the partial energization of the relay, a link circuit comprising talking conductors for extending the telephone line, and a circuit separate from the talking conductors and including a portion of the energizing winding of the relay established upon the connection of the link circuit with the line for causing the further energization thereof, thereby stopping the operation of the signaling device and entirely disconnecting the energizing winding from the telephone line.

1,337,753. SUPERVISORY SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1916. Serial No. 133,627. 14 Claims. (Cl. 179—18.)



2. In an automatic telephone exchange system, subscribers' lines, an automatic switch for interconnecting said lines, and automatic means to prevent the release of said switch in case it fails to operate correctly.

1,337,754. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 1, 1917. Serial No. 183,874. 13 Claims. (Cl. 179—93.)

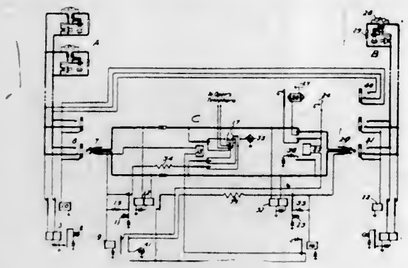


1. In a telephone exchange system, a plurality of lines terminating in jacks, a plurality of link circuits terminating in cords and plugs for interconnecting said jacks, a common cord restoring means, and means for selectively associating said restoring means with one of said cords.

1,337,755. TELEPHONE-EXCHANGE SYSTEM. HENRY PETER CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1917. Serial No. 191,373. 8 Claims. (Cl. 179—35.)

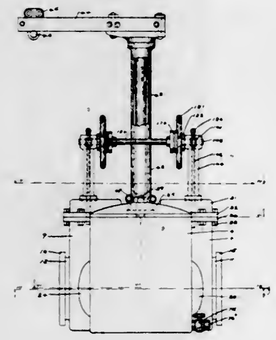
6. A telephone exchange system comprising two telephone lines, a link circuit joining the two lines together as calling and called lines, an operator's telephone set, a switching device for connecting the operator's telephone set with the link circuit, a supervisory relay in the link circuit controlled from the calling line, a signaling de-

vice, interrupter mechanism, an operating circuit for the signaling device, and interrupter mechanism included in



the operating circuit upon the actuation of the switching device for causing the intermittent operation of the signaling device while the supervisory relay is energized.

1,337,756. APPARATUS FOR STRAINING OR FILTERING LIQUIDS. PHILIP J. DARLINGTON, Hartford, Conn. Filed Mar. 26, 1919. Serial No. 285,155. 19 Claims. (Cl. 210—16.)



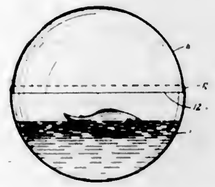
1. In a duplicate strainer two parallel cylindrical filter tanks and two parallel triangular branch boxes, with the apices of said branch boxes extending into the spaces between the circumferences of the cylindrical filter tanks and each branch box communicating with both of the filter tanks.

1,337,757. AUTOMOBILE-WINDLASS. MARION A. DAVIS, Sherman, Tex. Filed Nov. 5, 1919. Serial No. 335,863. 1 Claim. (Cl. 242—95.)



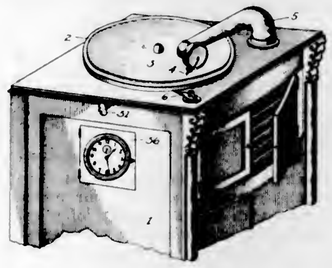
The combination in an automobile windlass of horizontally disposed rods, and bands supporting the same forming the drum thereof, both ends of said rods being bent radially and at right angles to the said horizontal portions, the upper ends of the radially bent arms at one end of the windlass terminating in outward semicircular bends adapted for engagement with the spokes of a wheel at one side of a car, and the radially bent arms at the opposite ends of said horizontal rods having semicircular bends adapted for engagement with the spokes of a wheel at the opposite side of said car.

1,337,758. TOY. ARTHUR V. DE COSTA, Providence, R. I. Filed Oct. 29, 1919. Serial No. 334,183. 3 Claims. (Cl. 46—37.)



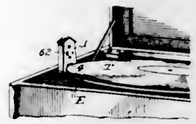
1. As an article of manufacture, a transparent hollow body formed in two halves having their meeting edges reinforced and hermetically sealed, said body containing a liquid and a float.

1,337,759. TIME CONTROL FOR SOUND-REPRODUCING MECHANISM. AUGUST C. DITTRICH, Chicago, Ill. Filed Dec. 7, 1918. Serial No. 265,684. 20 Claims. (Cl. 161—23.)



1. In combination with sound reproducing mechanism, a rotatable table, a flexible strip attached to the sound reproducing mechanism, time controlled mechanism for holding said strip flexed, and means operably connecting said strip and said table whereby upon release of said strip at a predetermined time said table will be released for rotation.

1,337,760. TIME CONTROL FOR SOUND-REPRODUCING MECHANISM. AUGUST C. DITTRICH, Chicago, Ill. Filed May 22, 1919. Serial No. 298,836. 16 Claims. (Cl. 161—23.)

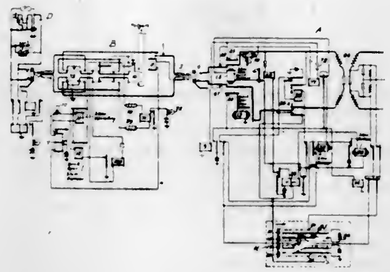


14. In apparatus of the class described, a casing, alarm mechanism, a brake operatively connected thereto, means for releasing said brake upon operation of the alarm mechanism, and means for automatically stopping the operation of the alarm mechanism when said brake is released.

1,337,761. TELEPHONE-EXCHANGE SYSTEM. WILLIAM L. DODGE, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1918. Serial No. 248,760. 12 Claims. (Cl. 179—46.)

7. A telephone exchange system comprising a trunk circuit extending from a first to a second switchboard, a

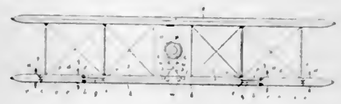
link circuit connected with the trunk circuit at the first switchboard, an extension circuit connected with the trunk circuit at the second switchboard, a ringing key in the link circuit, means in the trunk circuit at the first switchboard responsive to the momentary actuation of



the ringing key for transmitting two impulses of current over the trunk circuit, a source of ringing current at the second switchboard, and a relay in the trunk circuit controlling the connection of the source of ringing current with the extension circuit energized in response to the first impulse over the trunk circuit and deënergized in response to the second impulse thereover

---

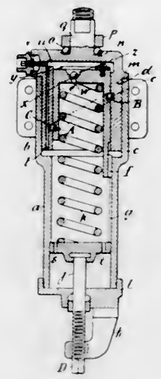
1,337,762. AEROPLANE. CHARLES RICHARD FAIREY, Hayes, England. Filed Apr. 23, 1919. Serial No. 292,163. 1 Claim. (Cl. 244—29.)



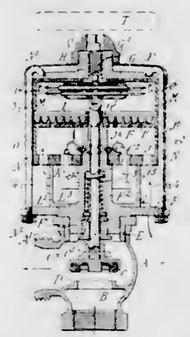
In an aeroplane having a wing structure comprising upper and lower planes of substantially equal span positioned one directly above the other, the combination with double acting ailerons pivotally connected to the lower plane and forming the rear portion thereof, of an independent control member and connections from said control member to each of said ailerons adapted positively to bend the same downwardly to increase the camber of the lower plane, and to bend the same upwardly to decrease the camber thereof and to decrease the gap between the lower and upper planes, said connections being arranged to bend simultaneously one aileron downwardly and the other upwardly, whereby the increase of head resistance on one wing due to increase of wing camber is balanced by a simultaneous increase of head resistance due to decrease of gap between planes on the other side, said control and connections operating independently of any rudder controls.

1,337,763. DOOR-SPRING. ERNST VALDEMAR GANDIL, Copenhagen, Denmark. Filed July 10, 1918. Serial No. 244,219. 4 Claims. (Cl. 16—88.)

4. A doorspring comprising an outer casing adapted to be secured on a door and to contain a fluid, a hollow cylinder mounted within the said casing and adapted to be connected with a door frame and rotated upon opening of the door, a second hollow cylinder constituting a piston arranged to slide tightly in the cavity of the said first named cylinder, means, including a screw thread, for causing an axial displacement of the said piston relatively to the said cylinder upon turning of the latter, a helical spring acting upon the said piston, a valve member carried by said piston and a checked channel formed in the wall of the said rotatable cylinder and connecting a space above the said piston with a space below the same.



1,337,764. ELECTROTHERMIC MOTOR FOR THERMOSTATIC SYSTEMS. EDWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, a Corporation of New York. Filed May 2, 1918. Serial No. 232,018. 14 Claims. (Cl. 60—23.)

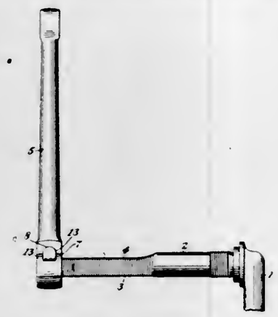


1. The combination with a thermomotor located in a horizontal plane and containing a vaporizable liquid, of an electric heater located beneath said motor, and a support for the heater provided with vertical openings permitting air to pass upwardly from below into contact with the underside of and through the heater.

1,337,765. BICYCLE-CRANK. JOHN J. MCGUCKIN, Brooklyn, N. Y., assignor to Louis Schwab, doing business as Stevens & Company, New York, N. Y. Filed May 15, 1919. Serial No. 297,386. 1 Claim. (Cl. 208—68.)

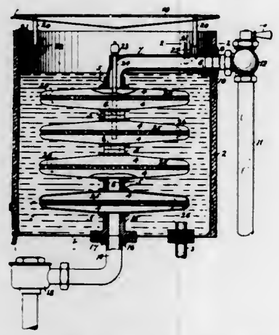
The combination, in bicycle driving mechanism, of a drive-shaft having a threaded end flattened on one side, a crank-arm having a threaded aperture to receive the threaded end of the shaft and being provided with a transverse cotter pin seat having a semicylindrical top, flattened sides and a depth greater than the greatest diameter of the hereinafter mentioned cotter pin and extending below the flattened face of the drive-shaft when

the crank-arm and drive-shaft are assembled, a cotter pin having a cylindrical top, opposed flattened sides and



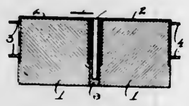
a flat bottom and being of substantially less thickness than the width of the cotter pin seat, and means for drawing the cotter pin home through the seat in the crank-arm.

1,337,766. AIR-MOISTENER. ROBERT W. HARDIE, White Plains, N. Y., assignor to R. W. Hardie Company, Inc., a Corporation of New York. Filed Nov. 27, 1918. Serial No. 264,481. 7 Claims. (Cl. 257—207.)



1. In combination, an open-topped water containing receptacle, a heating member arranged within said receptacle, an inlet pipe having its inner end opening into the upper part of said heating member and its outer end provided with a recessed head bearing against the inner surface of the wall of said receptacle in line with an opening in said wall, and a coupling extending in part through said opening and having a threaded engagement with the head of said inlet pipe.

1,337,767. TUNNEL-BLOCK. CORNELIUS G. HASTINGS, Glendale, Calif., assignor to Hastings Tunnel System Company, a Corporation of New York. Filed Nov. 26, 1915. Serial No. 63,493. 4 Claims. (Cl. 72—107.)



3. A prepared building block comprising a masonry block, a metallic casing covering the sides and ends of the block throughout a portion only of their area thereby leaving masonry surfaces for contact with cementitious material, and lugs carried by the casing for securing the block to similar blocks.

1,337,768. COMBINATION-BRACKET FOR SCREENS, SHADES, AND CURTAINS. SAMUEL HEATH, Philadelphia, Pa. Filed Apr. 16, 1919. Serial No. 290,517. 2 Claims. (Cl. 156—24.)



1. In a bracket of the character described, attaching loops, base members, reach members standing at right angles to said base members, an upper and lower loop formed in the reach members, an offset formed in the reach members, and two additional loops formed in the outer portion of said reach members beyond the offset 3.

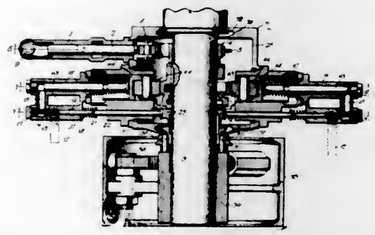
2. A combination bracket comprising base members provided with attaching loops, reach members projecting at right angles to said base members, oppositely projecting loops carried by said reach members, inwardly projecting offsets in said reach members, another loop formed from one of the reach members, beyond the oppositely projecting loops and a double loop projecting opposite the last named loop beyond the latter and adjacent the outer end of the reach members.

1,337,769. POCKET-KNIFE. OTTO L. HEMMING, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Dec. 27, 1919. Serial No. 347,741. 1 Claim. (Cl. 30—10.)



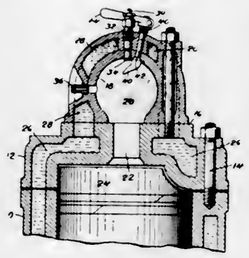
A plural-bladed pocket-knife having a handle-frame, a plurality of knife-blades mounted therein, and split-and-sprung compensating washers interposed between the said handle-frame and the shanks of the knife-blades in diagonal arrangement so as to hold the blades in relative position and take up wear.

1,337,770. OIL-ENGINE-FEEDING DEVICE. FRANKLIN G. HOBART, Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1917. Serial No. 195,254. 4 Claims. (Cl. 123—140.)



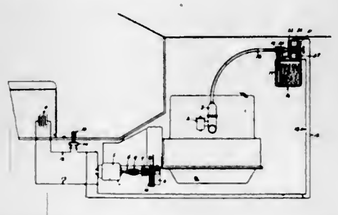
1. Mechanism for injecting fuel into a multi cylinder internal combustion engine, said mechanism including horizontally arranged pumps, a duct leading from each pump to the respective engine cylinder, a rotating cam, means contacting said cam at the end of a substantially horizontal radius for operating one of said pumps, and means including a rocker arm contacting said cam at the end of a substantially vertical radius for operating the other of said pumps.

1,337,771. OIL-ENGINE. FRANKLIN G. HOBART and CHARLES B JAHNKE, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1917. Serial No. 200,415. 7 Claims. (Cl. 123—32.)



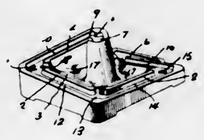
7. In a device of the class described, the combination with an imperforate wall, a fuel injector therethrough, a shaft in said wall in a direction generally parallel to the axis of the fuel injector, means on one side of the wall for rotating the shaft, and a deflector member of special heat resisting material on the shaft on the other side of the wall movable by rotation of the shaft between two positions; in one of which it obstructs and in the other of which it does not obstruct the flow of fuel from the injector.

1,337,772. PRIMING DEVICE. JAY J. HOGAN, Erie, Pa. Filed Dec. 29, 1917. Serial No. 209,414. 3 Claims. (Cl. 123—187.5.)



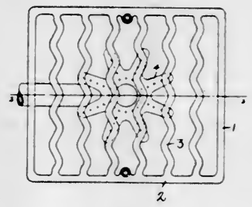
1. In a priming device, the combination of an internal combustion engine; an electric battery; an electric starting motor; an electric connection between the motor and the battery; a driving connection between the motor and the engine; a switch for the electric connection; a primer; and electrical means acting independently of the starting motor for actuating the primer as the switch is actuated.

1,337,773. PARLOR-BASEBALL GAME. ROBERT H. IRELAND, Brooklyn, N. Y. Filed Sept. 17, 1917. Serial No. 191,814. 1 Claim. (Cl. 46—61.)



A game apparatus comprising an integral structure substantially square in plan and having side edges of varying height increasing uniformly, ridges formed at the edges of the structure, a second set of integrally formed inner ridges in spaced relation to the first ridges to form runways, a central depressed portion, the inner ridges being interrupted at the corners of the structure to form passage ways leading into the depressed portion, a central inclined integral structure having a runway and communicating at its lowest point with one of the first mentioned runways, and a recess at one side of the structure, the outer and inner ridges being interrupted at that point to afford communication between the recess and the adjacent runway and also the depressed portion for the purpose set forth.

1,337,774. TOP PLATE FOR STOVES. WESLEY E. JORDAN, Erie, Pa. Filed Feb. 4, 1918. Serial No. 215,253. 2 Claims. (Cl. 126—214.)



1. The combination of a burner and a top plate subjected to the direct action of the burner and having a continuous border and continuous bars extending from border to border, said border and bars being formed integrally of cast metal and said bars having expanding bends therein.

1,337,775. MOTION-PICTURE FILM. WILLIAM V. D. KELLEY, New York, N. Y., assignor, by mesne assignments to Prizma Incorporated, a Corporation of Maine. Filed July 8, 1918. Serial No. 243,879. 14 Claims. (Cl. 88—16.4.)



1. The method of producing a color picture which consists in providing a transparent support with a plurality of sensitive coatings, having insensitive designs therein, printing images from color value negatives in the sensitive portions of said designs, and applying predetermined colors to said coatings in such manner that natural colors are additively produced in projection.

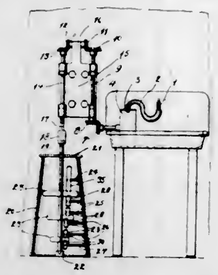
8. A color picture film carrying on both sides like impressions consisting of a design composed of symmetrically arranged portions with the picture printed between said portions, said impressions being colored on both sides in colors which when mixed additively reproduce an impression in natural colors.

1,337,776. ACTUATING MECHANISM FOR WINDOWS, SASHES, SHUTTERS, OR THE LIKE. AUGUST D. KUMPF, Philadelphia, Pa. Filed Aug. 28, 1919. Serial No. 320,511. 8 Claims. (Cl. 268—18.)



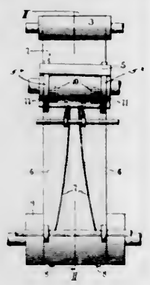
1. In a device of the character stated, the combination of a shutter, toggle mechanism therefor, an actuator composed of parallel connections and cross-heads and having portions of said toggle mechanism connected to said parallel portions and mounted intermediate the latter, and means for moving said actuator in either direction with the said connections in parallelism.

1,337,777. CHURN. ANDRZEJ LAPKA, Simpson, Pa. Filed Feb. 9, 1920. Serial No. 357,274. 1 Claim. (Cl. 259—107.)



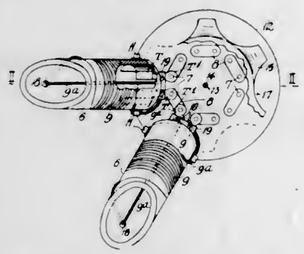
A churn comprising a chamber having a vertical shaft pivotally mounted therein, means for turning said shaft, spaced apart horizontal blades rigid to said shaft, shafts supported in the wall of said chamber, vertical blades pivotally mounted on said shafts, said last-named blades lying in the paths of said first-named blades so that some of said last-named blades are rotated in one direction, and others in the opposite direction.

1,337,778. CUTTING AND FOLDING MACHINE. HENRY E. LEONARD, Brooklyn, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 27, 1917. Serial No. 165,014. 12 Claims. (Cl. 164—68.)



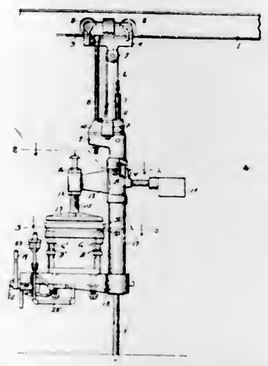
1. In a machine of the character described, a pair of rotary cutters having coacting knives for severing sheets from a traveling web and means carried by the cutters for stiffening the web longitudinally of its travel.

1,337,779. ELECTRIC-HEATING RESISTANCE ELEMENT. LESLIE VICTOR LEONARD, Richmond, Victoria, Australia. Filed Apr. 5, 1919. Serial No. 287,867. 9 Claims. (Cl. 219—34.)



2. In an electric heating unit the combination of a terminal, a high resistance wire engaged by said terminal, and an element of lower resistance than said wire associated with the portion of said wire engaged by said terminal and extending along a part only of the length of said high resistance wire.

1,337,780. MOLDING-MACHINE. JOHN H. LONSKEY, Detroit, Mich., assignor to Central Specialty Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 6, 1919. Serial No. 322,124. 12 Claims. (Cl. 22—26.)



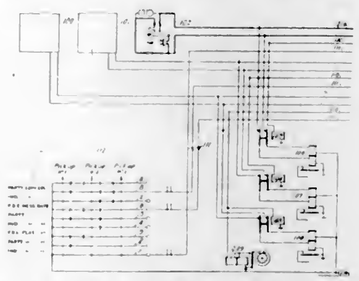
1. In a molding machine adapted for suspension from an overhead track on which the same is slidably movable, a gravity plunger for securing such machine to the floor and means provided for elevating such plunger therefrom, a tamping plate adapted to resist vertical pressure, a vertically movable cylinder fitted with a pattern plate, a molding flask adapted to be superimposed over said pattern plate and means for elevating said cylinder to compress the molding sand within said molding flask against the resistance of the tamping plate, and means for lowering said cylinder away from said tamping plate.

1,337,781. SECTIONAL BOAT. ALFRED J. LOWDERMILK, Mount Gilead, N. C. Filed Dec. 23, 1919. Serial No. 347,049. 2 Claims. (Cl. 9—2.)



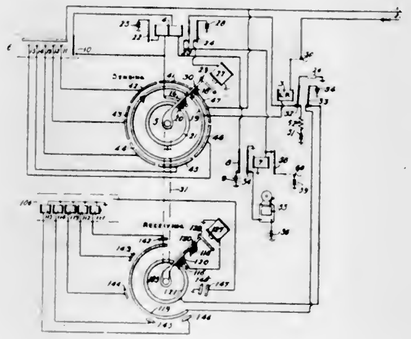
1. A sectional boat comprising a plurality of watertight sections detachably connected to each other and having an intermediate chamber interposed between said sections.

1,337,782. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 17, 1918. Serial No. 235,090. 20 Claims. (Cl. 179—27.)



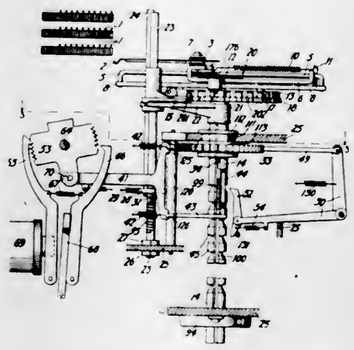
1. In a telephone exchange system, a plurality of calling lines, a called line, switching means for connecting any one of said calling lines to said called line, a sequence switch for controlling the operation of said switching means, and means for variably operating said switch depending on the line calling.

1,337,783. SIGNALING MECHANISM. FRED R. McMURRY, Westwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1918. Serial No. 216,092. 5 Claims. (Cl. 178—23.)



1. In a telegraph system, the combination of a sending station and a receiving station, a signaling device at the sending station, line circuit connections extending between said stations, a line relay at the sending station, a second relay at the sending station under the control of the line relay for controlling said signaling device, an armature for said line relay, electro-responsive means connected to the line relay armature, and means at the receiving station for controlling the action of said electro-responsive means to effect the actuation of said signaling device through the instrumentality of said second relay.

1,337,784. AUTOMATIC SWITCH. JAMES L. McQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 16, 1917. Serial No. 162,329. 9 Claims. (Cl. 179—27.5.)



1. In an automatic switch, a plurality of sets of contacts, a set of brushes having three selective movements in different directions to engage a set of contacts, and means for operating said set of brushes in each of its movements.

1,337,785. SEPARABLE FASTENER. CHARLES A. MILLER, Waterbury, Conn., assignor to Worcester Metal Goods Company, Waterbury, Conn., a Corporation of Massachusetts. Filed Aug. 8, 1919. Serial No. 316,026. 7 Claims. (Cl. 24—208.)



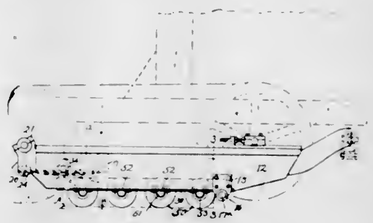
1. A socket member comprising a collet, an anvil and cover reinforcing portions, all integral with one another, said anvil surrounding a perforation having a downwardly and outwardly turned edge forming a recess adapted to receive the edge of a securing eyelet.

1,337,786. DRAFT-REGULATING DEVICE. WILLIAM ALLEN MITCHELL, East St. Louis, Ill. Filed Aug. 23, 1919. Serial No. 319,333. 1 Claim. (Cl. 188—65.)



In a device of the type described, a plate having a shallow depression formed therein, a spring secured to said plate and a chain passing intermediate said depression and said spring, said spring holding said chain in contact with the base of said depression, said chain being shiftable in either direction while engaging the base of said depression under the action of said spring.

1,337,787. TRACK-WHEEL SUSPENSION FOR TRACK-LAYING TRACTORS. MATHEW B. MORGAN, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Aug. 25, 1919. Serial No. 319,703. 5 Claims. (Cl. 21—150.)



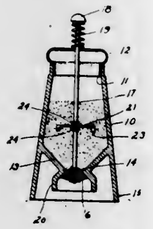
1. In a track laying tractor in which a track frame is pivotally connected near one end with the main frame and in which there is a resilient load supporting connection interposed between the other end of the track frame and the main frame, the combination with said pivoted track frame, of a truck which is pivoted to the track frame adjacent the spring supported end of the latter, and which has a resilient load supporting connection with the track frame adjacent the pivot of the latter, and track wheels mounted on said truck.

1,337,788. AIRMAN'S LIFE-PRESERVER. SAMUEL DIMMICK MOTT, Passaic, N. J. Filed Nov. 23, 1918. Serial No. 263,810. 5 Claims. (Cl. 244—21.)



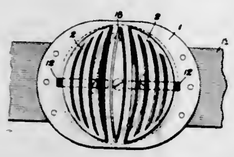
1. A parachute having expanding air or gas containing tubes attached to the fabric portion thereof and folded into said fabric portion with each segment or sector of the fabric and tube lying therein folded in zig-zag or bellows form toward the center combined with means for supporting the parachute so that it shall be free to expand both outwardly and upwardly, and means for producing pressure of air or gas in said tubes.

1,337,789. CONDIMENT-CONTAINER. ELDRIDGE NICHOLAS, Charlestown, R. I. Filed Nov. 24, 1919. Serial No. 340,210. 1 Claim. (Cl. 65—57.)



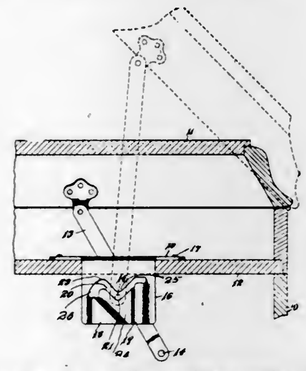
A condiment holder comprising a hollow body having a filling opening at its upper end, a cap for said opening, said body having a tapering inclined bottom portion with a central discharge opening therethrough, a valve for closing said discharge opening, a stem connected to said valve and extending up through said cap and having an enlarged operating head on this upper end, a spring coiled about said stem between said head and cap to hold both the cap and the valve to their seats, a stirrer member rotatably mounted on said stem, said member having angular vanes for causing it to rotate independently of said stem when moved up and down by action of said valve stem.

1,337,790. RUPTURE-PAD. THEODOR PACHALI, Sr., Reading, Pa. Filed Aug. 2, 1919. Serial No. 314,826. 6 Claims. (Cl. 128—112.)



1. A rupture pad, comprising a support, a pair of curved pad members, and means on the support for adjusting the pad members toward and away from each other.

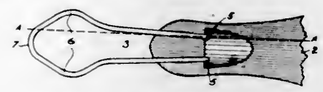
1,337,791. LID-SUPPORTING DEVICE. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 10, 1919. Serial No. 322,783. 12 Claims. (Cl. 217—60.)



1. A bracket for guiding and supporting a prop-bar of a lid supporting device and having a guide plate formed from a single piece of sheet metal and provided with a V-shaped slot and a rib, said slot and the channel in said rib opening into one another and forming a part of an M-shaped slot.

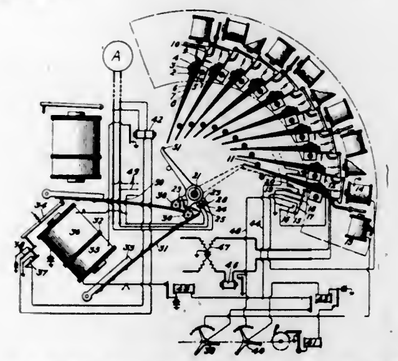
1,337,792. [WITHDRAWN.]

1,337,793. FASTENER FOR TAILPIECES OF MUSICAL INSTRUMENTS. BERNHARD POEHLAND, Woodhaven, N. Y. Filed Oct. 2, 1919. Serial No. 328,062. 2 Claims. (Cl. 84—146.)



1. The combination of a musical instrument tailpiece having the usual two holes drilled therein, and a fastener for said tailpiece, said fastener being formed of wire with hook ends engaging said holes, substantially as and for the purpose set forth.

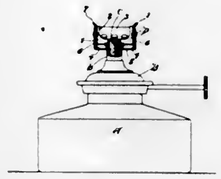
1,337,794. AUTOMATIC SWITCH. JOHN NEWBERRY REYNOLDS, Greenwich, Conn., and JOHN F. HEARN, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1917. Serial No. 188,760. 4 Claims. (Cl. 179—27.5.)



1. In a switch, a plurality of movable terminal bars arranged in a bank, sets of contacts on said bars, a rotatable

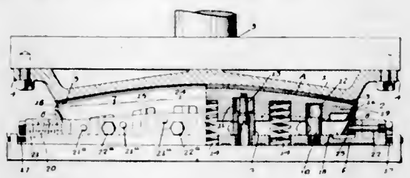
brush to coöperate with contacts on any selected bar, means for actuating said brush, and means for rendering contacts on any bar selectable by a rotation of said bar out of normal position into a selectable position.

1,337,795. LANTERN-BURNER. GEORGE H. ROLFES, St. Louis, Mo., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 1, 1919. Serial No. 274,517. 9 Claims. (Cl. 67—72.)



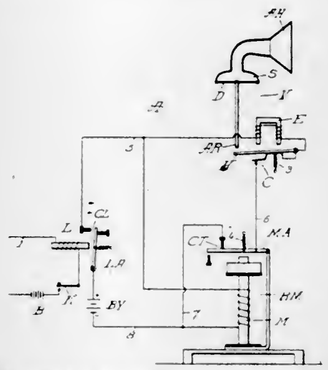
1. A burner comprising a flame spreader having apertured walls, baffle wings extending downwardly from the upper portion of said flame spreader and overhanging the apertures in said walls, and baffle webs between said baffle wings extending downwardly from said flame spreader.

1,337,796. DIE FORMING AND TRIMMING APPARATUS. HERBERT J. SMITH, Kearney, N. J., and ERNEST P. EVERETT, Flushing, N. Y.; said Smith assignor of his entire right to Everett Fibre Products Corporation, a Corporation of Delaware. Filed Apr. 15, 1919. Serial No. 290,291. 14 Claims. (Cl. 147—32.)



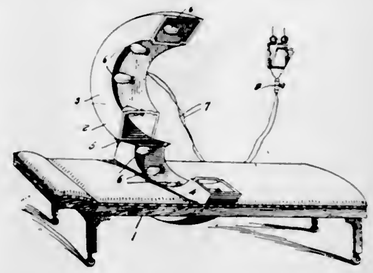
1. Apparatus of the character described, comprising a die including concave and convex forming members, a knife-support, yielding trimming-knives laterally movable in said support and having bevel-engagement with the die, and sustaining-springs between the die and knife-support.

1,337,797. RELAY SYSTEM. HARRY O. RUGH, Chicago, Ill. Filed May 12, 1919. Serial No. 296,356. 7 Claims. (Cl. 178—2.)



1. In a telegraph system, the combination with, a main line circuit, of a local circuit, a line relay, a winding therefor included in the main line circuit, a signal device, a slow pick-up relay, a winding and contacts for the said slow relay, multiply connected branch circuits for the slow relay winding and the said signal device, said signal device branch circuit including said slow relay contacts.

1,337,798. THERAPEUTIC APPARATUS FOR TREATMENT OF THE LOWER PORTION OF THE BODY. VERN LINN RUITER, Roseburg, Oreg. Filed May 28, 1919, Serial No. 300,243. Renewed Mar. 15, 1920. Serial No. 366,039. 3 Claims. (Cl. 174—177.)



1. In an apparatus of the character described, a cot provided with a cutout intermediate its length, an annular casing of sectional construction adapted to be fitted about a patient's body so as to extend completely around the same, the casing having a lower section fitting into the cutout of the cot and an upper section connected with the lower section, the inner surface of said casing being polished to provide a reflecting surface, and light and heat generating means positioned within the casing.

1,337,799. BEDSTEAD CORNER-FASTENING. MORRIS SCHLESINGER, New York, N. Y., assignor to M. Schlesinger, Inc., New York, N. Y., a Corporation of New York. Filed July 16, 1919. Serial No. 311,259. 1 Claim. (Cl. 5—55.)

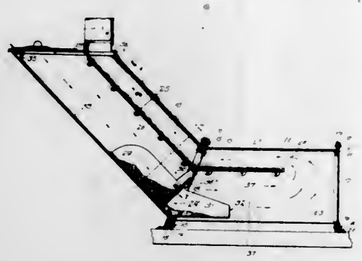


A corner-fastening for bedsteads comprising two members, each consisting of a plate having a dove-tailed oblong lug at one of its ends, the thickness of said lug corresponding to the thickness of said plate, said lug being wholly disposed in the plane of said plate, and a flat projection on said plate provided with a dove-tailed groove, said projection extending throughout the width of said plate from its end opposite said lug toward and terminating at about the transverse center line of said plate, the thickness of said projection corresponding to the thickness of said plate, said two members being arranged in opposition to each other with their projections in abutment with each other and their lugs seated in the groove of the other member of the fastening.

1,337,800. TANK-HEATER. THOMAS SEVERSON, Duluth, Minn., assignor to Duluth Corrugating & Roofing Company, Duluth, Minn., a Corporation of Minnesota. Filed Mar. 28, 1917. Serial No. 157,901. 10 Claims. (Cl. 126—368.)

1. In a heater of the class described, an inclined fuel chamber, a horizontal combustion chamber, a fire box in

said fuel chamber and having an ash retainer attached thereto with a grate between the ash retainer and the fire box and means for limiting the downward movement of



said fire box and ash retainer, said means comprising a lug secured to the juncture between said fuel and combustion chambers.

1,337,801. GAS-BURNER. BAKER L. SHANNON, Healton, Okla. Filed Nov. 13, 1918. Serial No. 262,338. 2 Claims. (Cl. 158—109.)



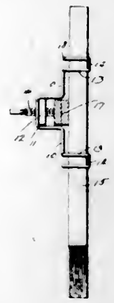
2. An injector burner comprising a mixing tube, a steam pipe entering through the rear end of the mixing tube axially thereof and having an outlet disposed in the direction of the outlet of the mixing tube, a gas inlet opening through the side of the mixing tube with its greatest forward extension just to the rear of the plane touched by the outlet orifice of the steam pipe, an air inlet in the opposite wall of the tube with its foremost point midway between the rearmost point of the gas inlet and the rear wall of the mixing tube, guides at opposite sides of the air inlet opening, a plate mounted slidably in the guides and having a notch disposed to register, apex first, with the air inlet when the slide is moved from the latter, and means for reciprocating the slide.

1,337,802. ARTIFICIAL LEATHER. ALBERT A. SOMERVILLE, Flushing, N. Y., assignor to New York Belting & Packing Company, a Corporation of New York. Filed Jan. 15, 1918. Serial No. 211,921. 2 Claims. (Cl. 18—53.)

1. A process of the kind described, which comprises winding into a roll a vulcanizable rubber layer and sheet of paper in intimate surface contact with one another, subjecting said roll to the action of a vulcanizing medium, and removing said paper sheet, thereby providing a material having the appearance, texture, flexibility, and in general the characteristics of dull finished leather.

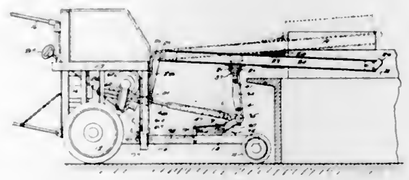
1,337,803. PLANT-SUPPORT. JEAN J. STANLEY, Port Chester, N. Y. Filed Nov. 10, 1919. Serial No. 336,853. 1 Claim. (Cl. 47—12.)

A plant support comprising a body portion having vertical parallel portions each terminating in angularly extending arms, the ends of the arms being directed inwardly toward each other for embracing engagement with a stake, the intermediate portion of the body being formed with loops, a block seated in the loops, and a clamping screw



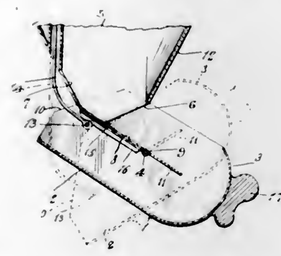
carried by the block for engagement with the overlapping ends of the loop.

1,337,804. INDUSTRIAL TRUCK. MORRIS S. TOWSON and CLYDE E. COCHRAN, Cleveland, Ohio. Filed Mar. 10, 1919. Serial No. 281,773. 10 Claims. (Cl. 254—3.)



2. The combination of a truck having a frame and supporting wheels, a substantially horizontal load carrying platform some distance above the frame to the rear wheels, said platform being pivoted to an elevated portion of the truck frame, a toggle pivoted to the truck frame adjacent to the rear wheels and to the load carrying platform and when straight standing substantially vertically between them, a rod for moving the knuckle of the toggle, and mechanism carried by the truck frame for operating the rod.

1,337,805. CARBID CONTROLLING AND DUMPING VALVE FOR ACETYLENE-GAS GENERATORS. FRANK A. WEBB, Protection, Kans. Filed Dec. 22, 1916. Serial No. 138,434. 2 Claims. (Cl. 48—52.)



2. In combination, a carbid holder having a discharge opening, a downwardly inclined extension carried by said carbid holder and disposed below said discharge opening, a valve horizontally pivoted intermediate its ends to said extension and having a carbid receiving end and a carbid discharge end, a cutoff plate carried by said valve and having one of its longitudinal edges contacting with the lower edge of said extension, and means adapted to move the valve into carbid receiving position and into carbid discharging position, said cutoff plate being located in the plane of said extension when the valve is in carbid receiving position and at an angle to and extending above said extension when the valve is in carbid discharging position.

1,337,806. INCLOSED NON-ARCING REFILLABLE FUSE. ALBERT A. WELLS, Detroit, Mich. Filed May 24, 1919. Serial No. 299,424. 5 Claims. (Cl. 200—120.)



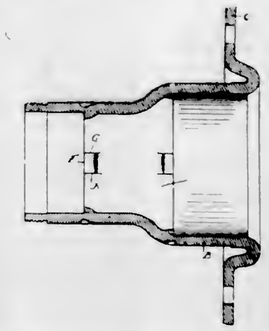
1. A fusible plug, comprising in combination; a pair of body sections, joined together with a fusible ribbon inserted therebetween, a leaf spring carried within one of the body sections, a barrier plug carried by the leaf spring and pressing against the fusible ribbon.

1,337,807. SECTIONAL BOLT. CHARLES K. WIGHTMAN, Alton, Ill., assignor to Beall Brothers, a Corporation of Illinois. Filed Sept. 18, 1916. Serial No. 120,708. 1 Claim. (Cl. 85—4.)



An adjustable bolt adapted for use in connection with a shrinkable material comprising a pair of oppositely disposed lapping sections adapted to be inserted into opposite ends of a bolt-receiving opening, each of said sections having a head at its outer end and reduced extensions at its inner end, said heads contacting with the body of material surrounding the bolt-receiving hole and the said reduced extensions being so arranged as to permit the distance between said heads to be reduced when the width of the body surrounding the bolt hole is reduced, the reduced extensions being approximately semi-circular in cross section and combined with each other to produce a circular sectional body approximately equal in diameter to the body of the bolt, the contacting faces of said reduced sections being provided with ratchet teeth which interlock with each other to prevent the sections from moving away from each other, and said ratchet teeth being formed in a line parallel with the axis of the bolt and provided with inclined faces so as to allow the lapped sections to slide toward each other, each of said reduced sections being provided with a wedge-like end for the purpose described.

1,337,808. WHEEL-HUB AND METHOD OF FORMING THE SAME. JOHN R. WINTER, Lansing, Mich., assignor to Kelsey Wheel Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 31, 1914. Serial No. 859,571. 2 Claims. (Cl. 29—159.)



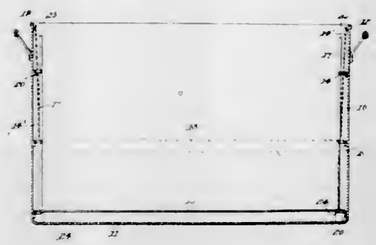
1. The process of forming an abutment in a sheet metal lubricant holding member consisting in deflecting a tongue out of the wall of said member to a lesser degree than the gage of the metal and simultaneously squeezing the metal of said tongue laterally to form a sealed joint.

1,337,809. PROTECTING MEANS FOR VESSELS. ALEXANDER WINTON, Lakewood, Ohio. Filed June 22, 1917. Serial No. 176,322. 22 Claims. (Cl. 114—20.)



1. A towed torpedo carrying an explosive charge and provided with a passage through which water flows as the torpedo travels through the water, and propelling means for said torpedo actuated by the flow of water through said passage.

1,337,810. BOILER. JOHN ZELKOWSKI, Whitkow, Saskatchewan, Canada. Filed Aug. 6, 1919. Serial No. 315,642. 5 Claims. (Cl. 68—30.)

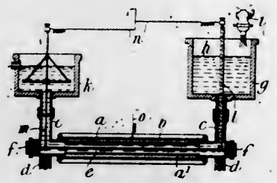


1. In a boiler, hinged brackets at the opposite ends of the boiler arranged in pairs at different levels therein, operating means for the brackets, a perforated tray within the boiler adapted for selective positioning upon said pairs of brackets and elevating means for the tray.

1,337,811. METHOD OF MOLDING SEMISOLID SUBSTANCES. BERNARD JAMES ALLEN, Stoke-upon-Trent, England. Filed Aug. 14, 1917. Serial No. 186,126. 5 Claims. (Cl. 204—1.)

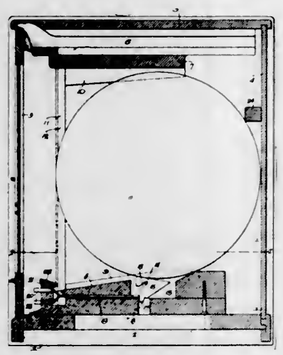
1. The method of electrolytically molding substances such as clay, plumbago or like material consisting in in-

troducing the said material suspended in a liquid into a mold, which forms one electrode in an electric circuit, and then passing an electric current through the material



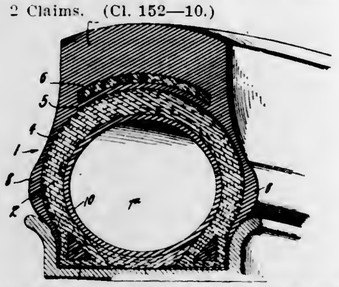
between an electrode suspended therein and said mold, so as to cause the solid material to be deposited and molded upon the surface of the mold.

1,337,812. RECORD-HOLDING CABINET FOR TALKING-MACHINES. RODNEY D. ALLEN, Philadelphia, Pa., assignor to Bennett L. Johnson, Philadelphia, Pa. Filed Dec. 6, 1916, Serial No. 135,424. Renewed Oct. 7, 1919. Serial No. 329,067. 4 Claims. (Cl. 211—16.)



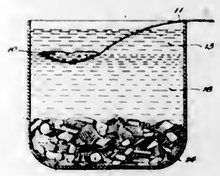
3. The combination in a cabinet for holding disk records, of upper and lower guides for the records; partitions at the front alining with the upper and lower guides, the lower guides being arranged on an incline and recessed directly under the center of the disks when in their normal position; a transverse pivot rod located in the recess; a series of trippers for elevating the record disks, said trippers being mounted on the rod and forming a continuation of the base of the lower guide; means for limiting the movement of the trippers in their two positions; and push rods extending to the front of the cabinet and arranged to actuate the several trippers so that, when one push rod is forced in, it will cause a tripper to turn on its pivot and elevate a disk and allow it to roll forward.

1,337,813. PNEUMATIC TIRE. ERIC P. ALTENBURG, Columbiana, Ohio. Filed Nov. 28, 1919. Serial No. 340,972. 2 Claims. (Cl. 152—10.)



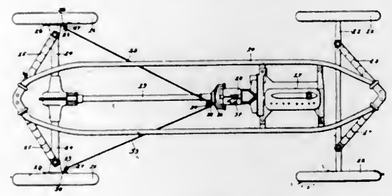
2. A tire composed of a casing shaped to fit an ordinary wheel rim, and having a central air space with an inner tube fitted therein, a thickened tread of a width substantially equal to the diameter of the air space, and side walls of said casing having thickened rib-like portions on their outer faces arranged substantially midway the width of said walls.

1,337,814. SKIMMING-SPOON. CHARLES F. BEAUFRERE, Central Islip, N. Y. Filed Feb. 27, 1919. Serial No. 279,657. 3 Claims. (Cl. 65—28.)



1. A skimming utensil for removing one liquid from another of greater specific gravity, consisting of a spoon shaped implement formed of a material having a specific gravity between that of the two liquids, provided with means to take in liquid to a level below the plane of its edge.

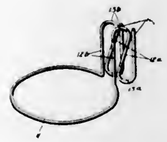
1,337,815. EQUALIZING BRAKE MECHANISM. EDUARD H. BELDEN, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed July 26, 1917. Serial No. 182,856. 5 Claims. (Cl. 188—78.)



3. In a vehicle, the combination of a pair of internal expanding hub brakes; a rock shaft for expanding each of said brakes; an arm on each rock shaft extending upwardly therefrom and having a head lying in a plane extending at an angle to the vehicle frame; a brake lever; a pulley; connections between said brake lever and said pulley, whereby said pulley will be moved when said brake lever is operated; and a cable connected at its ends to said heads and passing over said pulley.

5. In a vehicle, the combination of a pair of hub brakes, a rock shaft for expanding each of said brakes, an arm on each rock shaft having its free end inclined to extend in a plane at an angle to the longitudinal axis of the vehicle, a forked member upon the inclined ends of each of said arms, a brake lever, and a connection between the lever and said forked members.

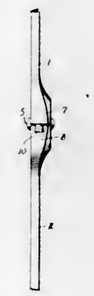
1,337,816. DISPLAY-SUPPORT. WILLIS B. BLACKWELL and WILLIS J. BLACKWELL, New York, N. Y. Filed Feb. 19, 1919. Serial No. 277,913. 1 Claim. (Cl. 40—11.)



The herein described display support comprising an open loop of spring wire having terminal gripping ends,

the extreme ends constituting straight parallel fingers, while the portions of the wire adjacent to the fingers are bent into double folds or bends which coöperating with the fingers constitute frictional grips for the device to be displayed.

1,337,817. HINGE FOR ARTIFICIAL LEGS. ROBERT RUDLAND BODÉ, Honolulu, Hawaii. Filed Nov. 26, 1919. Serial No. 340,781. 1 Claim. (Cl. 16—11.)



A hinge improvement for artificial limbs comprising, parts to be resiliently hinged together, a back stop formed on each part, ears spaced apart and projecting outwardly from each part to be hinged, said ears provided with a bearing hole made therethrough forward of the back stops to cause the back stops to move into abutting position, a pivotal pin inserted through the bearing hole of the ears, and a bumper pad fixed to one of the back stops to form a resilient seat against which the back stops impinge, said pad being locked within a dove-tail groove made in the back stop.

1,337,818. RIMLESS SPECTACLES AND EYEGLASSES. REGINALD HENRY BRADSHAW, London, England. Filed Nov. 25, 1919. Serial No. 340,567. 6 Claims. (Cl. 88—42.)



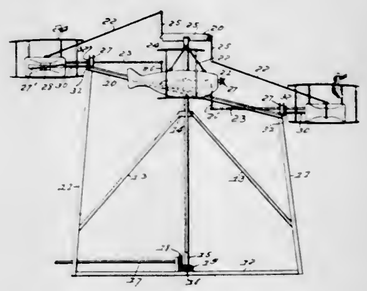
1. In a pair of eye-glasses or spectacles, the combination with a lens, of a clamping plate fitting against one side of said lens, a second clamping plate fitting on the other side of the lens, said lens being provided with a cut-away portion and one of said plates having a projection which enters the cut-away portion, and a clamping screw passing through both of said plates and situated at one side of said projection and co-acting with the edge of the lens to prevent rotation of the same about said projection.

1,337,819. BRUSH. WILLIAM P. BRAUN, Brooklyn, N. Y. Filed Aug. 6, 1919. Serial No. 315,681. 2 Claims. (Cl. 15—13.)



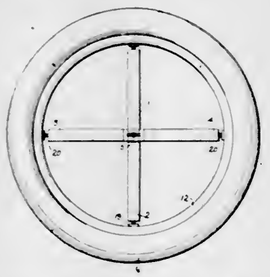
1. A brush of the character described, comprising a pair of brush members embodying spaced twisted wire supports forming a longitudinal passage open at its forward end, the rear portions of the twisted wire supports being twisted together in an opposite direction to the twisting of said wire supports, whereby the twisted portions of the wire supports are partly opened for forming a shank having voids therein, a handle having a longitudinal opening for the reception of said shank, cement material within the opening and passing through the voids, a ferrule secured to the forward end of the handle, and a retaining element holding the ferrule in place upon the handle and passing between the supports in advance of said shank.

1,337,820. AMUSEMENT APPARATUS. JAMES H. BUTCHER, Louisville, Ky. Filed July 14, 1919. Serial No. 310,531. 4 Claims. (Cl. 46—27.)



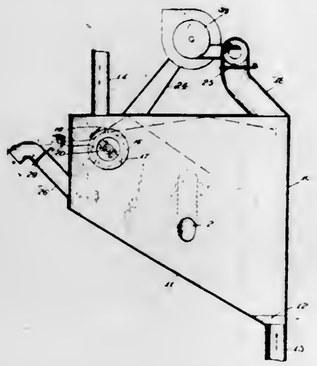
1. An amusement device having a continuous elliptical track, a rotary shaft, cars having radial supporting elements connected at their inner ends with the shaft and provided at intermediate points with rolls traversing the track, the car supporting means being extensible to permit of the cars describing an orbital path defined by the track.

1,337,821. RIM-HOLDING STAND. PATRICK CANNON, New York, N. Y. Filed May 16, 1919. Serial No. 297,491. 1 Claim. (Cl. 144—288.)



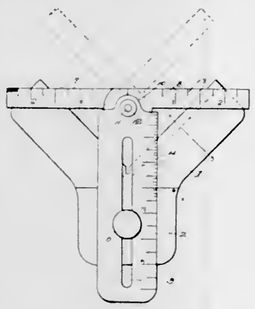
A rim holding stand, comprising a plurality of arms provided at their outer ends with legs extending at an angle from the arms and adapted to rest on the ground to support the arms horizontally a distance above the ground, a pivot bolt held on the inner end of one of the arms, the inner ends of the other arms being mounted to swing on the bolt as the fulcrum, the said arms when in extended position radiating from the bolt and when in folded position overlying one the other, the leg of the said bolt-carrying arm being spaced from the leg of the adjacent arm, and supporting bolts screwing in the legs and extending approximately at a right angle thereto, the outer ends of the supporting bolts being adapted to support a rim, the leg of the said bolt-carrying arm being provided with a plurality of threaded apertures adapted to receive the supporting bolts removed from the other legs prior to swinging the arms into folded position.

1,337,822. METHOD AND APPARATUS FOR TREATING ROOFING-GRIT. ARTHUR B. COOKE, Chicago, Ill., assignor to Staso Laminated Slate Company, Chicago, Ill., a Corporation of Massachusetts. Filed Aug. 18, 1919. Serial No. 318,184. 5 Claims. (Cl. 83—54.)



1. In a device of the kind described, in combination, a closed housing having a sloping bottom and a material outlet at the lower end of the slope, a material inlet in the top of the housing above the upper end of the slope, means in the path of the incoming material to throw the material against the top of the housing whereby it is separated into an open shower and means to exhaust air and dust from the housing.

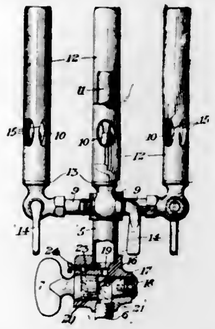
1,337,823. COMBINATION GEOMETRICAL INSTRUMENT, MELVILLE W. CRANE, Moline, Ill. Filed May 14, 1918. Serial No. 234,409. 1 Claim. (Cl. 33—95.)



The combination with a center head, of an adjustable blade having a medial longitudinal slot, means for adjustably securing the blade on the angle and working in the slot, and protractor arms pivotally connected to the blade at the end adjacent to the angle.

1,337,824. BURNER FOR GASEOUS FUELS. EDWARD T. CURRAN, Detroit, Mich. Filed Mar. 15, 1919. Serial No. 282,872. 7 Claims. (Cl. 158—104.)

3. In a gas burner, a main gas supply having a burner port in line therewith with passages extending laterally from the main supply and each passage having a port the axis of which is in a plane parallel with the port of the main supply, a tube to engage over the port of the main supply and extend above said port, said tube having circumferentially disposed openings in line with the port, and a tube to engage over each of the ports of the latter passages to extend above said ports and the tube of the



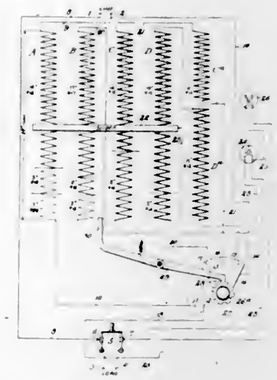
port of the main supply, and having circumferentially disposed openings in line with the burner ports for the purpose specified.

1,337,825. AIR-DISTRIBUTER FOR LAMP-BURNERS. JOSEPH K. DAVIS, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 28, 1919. Serial No. 273,571. 4 Claims. (Cl. 67—72.)



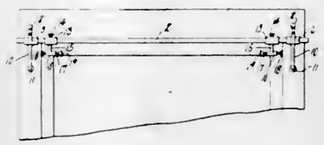
1. An air-distributer for lamp burners, comprising a metal skeleton having its lower portion made substantially parallel and forming a socket to grip the wick-tube of the burner, and its upper portion flared to cut the air-current at about the base of the flame.

1,337,826. RHEOSTAT. HOMER L. DODGE, Iowa City, Iowa. Filed Aug. 23, 1917. Serial No. 187,820. Renewed Mar. 4, 1920. Serial No. 363,288. 16 Claims. (Cl. 219—48.)



1. A rheostat comprising a plurality of associated resistance elements, a slider common to the resistance elements, and means in addition to the slider for including one or more of the resistance elements in circuit.

1,337,827. WINDOW SHADE AND CURTAIN HANGER. JOHN C. DODSON, Stone Mountain, Ga., assignor of one-half to Orbert L. Dodson, Lithonia, Ga. Filed Nov. 22, 1919. Serial No. 340,015. 4 Claims. (Cl. 156—23.)



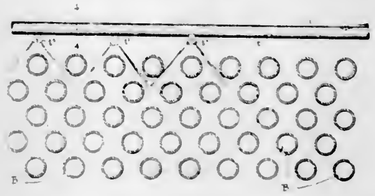
1. In a device of the class described, the combination of a rod substantially circular in cross section throughout its body portion and provided with terminals which are substantially square in cross section, sleeves being substantially square in cross section situated upon the terminals of said rod, an arm extending integrally from said sleeve, said arm terminating in a hook, a detachable leg extending downwardly from said sleeve and terminating in a foot so as to bear against the window frame.

2. In a device of the class described, the combination of a bar, the body portion of which is substantially circular in cross section and is provided with terminals which are substantially square in cross section, adjustable means for holding said bar to a window frame without marring or scarring same.

3. In a device of the class described, the combination of a rod, shade and curtain hanger means situated upon the terminals of said rod, adjustable holding means provided upon said rod, so as to place said rod in engagement with a window frame without scarring or marring same.

4. In a device of the class described, the combination of a rod with sleeves situated upon its terminal, arms extending from said sleeves and terminating in hooks, detachable legs depending from said sleeves and terminating in feet adapted to bear against the window frame, means provided for adjustably holding said sleeve upon said rod, slidable sleeves mounted upon said rod, and provided with a depending web terminating in a threaded sleeve, a bolt threadedly mounted within said threaded sleeve, a swivel foot provided upon said bolt and means provided for holding said slidable sleeve in adjustable positions upon said rod.

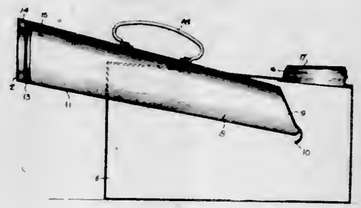
1,337,828. BOILER SOOT-BLOWER. FRED L. DORNBROOK, Milwaukee, Wis., assignor, by mesne assignments to The Vulcan Soot Cleaner Company, a Corporation of Delaware. Filed May 15, 1914. Serial No. 838,712. 6 Claims. (Cl. 122—392.)



1. In a flue cleaner system, a fluid distributing pipe having openings therein with the adjacent openings in different radial planes, and a nozzle for each opening having an axial opening terminating at the outer end in a V-shaped passage to project spaced jets from each nozzle with the adjacent jets of opposed nozzles traveling in proximity to set up a vortex of whirling motion therebetween.

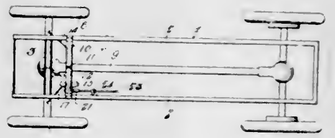
3. In a flue cleaner system, a fluid distributing pipe provided with outlets spaced apart along the pipe having their axes inclined toward each other and located in parallel planes, so spaced that the nozzles will project spaced crossing jets in sufficient proximity to create a whirling action in the gases between the jets.

1,337,829. MEDICAL APPLIANCE. WILLIAM J. DOYLE, Brooklyn, N. Y. Filed May 9, 1919. Serial No. 295,826. 1 Claim. (Cl. 4—19.)



In a device of the character described, a closed receptacle, a tubular member having its inner end closed and lying within said receptacle, said inner end having a discharge opening, a guard projecting over said discharge opening, an annular flange surrounding the open end of said tubular member, and a circular resilient securing means arranged interiorly of said tubular member, and positioned behind said flange.

1,337,830. STEERING DEVICE FOR MOTOR-VEHICLES. FREDERICK ELLWEIN, Hazen, N. D. Filed May 18, 1917. Serial No. 169,462. 2 Claims. (Cl. 280—97.)



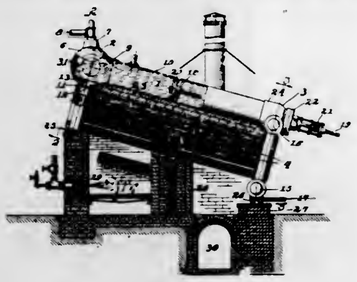
1. In a device of the class described the combination with a vehicle chassis having a front wheel drive and including a front swinging axle, of steering mechanism consisting of a pivotal steering bar, links pivotally connecting the terminals of the bar with the front axle on each side of the pivot point thereof, an arcuate rack bar formed on one end of the steering bar, a pinion mounted upon the chassis to mesh with the rack bar, and worm and worm gear means for actuating the pinion, the worm being operated by the steering post.

2. In a device of the class described, the combination with a vehicle chassis having a front wheel drive and including a front axle pivoted intermediate its ends to the chassis and steering mechanism consisting of a pivoted steering bar mounted upon the chassis frame and having terminal tensile connection with the front axle on each side of the pivot point thereof and carrying an arcuate rack, a pinion mounted upon the chassis frame in mesh with the rack, and worm and worm gears means for actuating the pinion, the worm being carried by the steering post.

1,337,831. APPARATUS FOR DISTILLATION. VICTOR LEE EMERSON, Philadelphia, Pa. Filed Nov. 13, 1919. Serial No. 337,813. 11 Claims. (Cl. 122—291.)

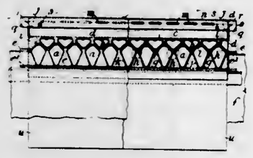
1. In a liquid vaporizer, having front and rear headers, said headers comprising cross drums and connected mani-

folds, said manifolds having a series of partitions forming unrestricted passages between said cross drums and mani-



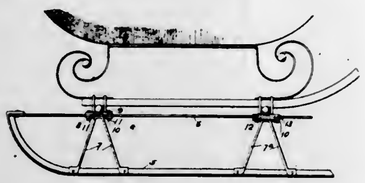
folds, a series of tubes connecting said manifolds at points intermediate said partitions, and a return drum connecting said cross drums.

1,337,832. VENTILATOR FOR LIGHT-PROJECTORS OR LANTERNS. SAMUEL EWART and JOHN WILLIAM EWART, London, and NORMAN WILLIAM PRANGNELL, Marylebone, London, England. Filed Mar. 25, 1919. Serial No. 284,967. 6 Claims. (Cl. 240—51.)



1. A ventilator for light projectors or lanterns comprising a plurality of parallel tubes which extend across the body or casing of the ventilator so that the ends are directly open to the air, the tubes of one tier being staggered with relation to the tubes of the adjacent tier so as to form angular or sinuous passages which will allow the escape of the gases or vapors but prevent the passage of light rays.

1,337,833. SLEIGH-RUNNER ATTACHMENT FOR VEHICLES. BENJAMIN FISCH, Brooklyn, N. Y. Filed May 17, 1918. Serial No. 235,161. 10 Claims. (Cl. 280—14.)



3. A vehicle having axles, two runners having sleeves for disposal over the ends of the axles, means to limit the movement of the sleeves in the direction of each other, inwardly extending arms on the runners for engaging the axle, and means connecting the arms for drawing the runners in the direction of each other.

1,337,834. PUMP. VINCENT H. FRANCIS, Drumright, Okla., assignor to Frick-Reid Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 23, 1917. Serial No. 176,558. 2 Claims. (Cl. 103—75.)

1. A pump for oil or other fluid comprising an elongated tube of substantially uniform bore divided into upper and lower chambers by means of an imperforate closure, a piston working tightly within the said upper chamber and



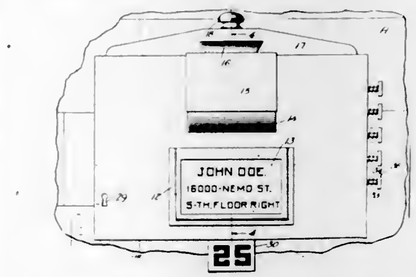
a valved by-pass communicating with the said lower chamber and also communicating with the said upper chamber above the said piston.

1,337,835. WRITING-TABLET. JOSEF FRANK, Frankfort-on-the-Main, Germany. Filed Mar. 2, 1916. Serial No. 81,617. 1 Claim. (Cl. 283—1.)



A book comprising a plurality of leaves bound together at one edge and indicating devices located on the one face of at least some of the leaves, contiguous to a free marginal edge thereof, said devices contrasting in color with that of the leaves and being located in predetermined arrangement to form a visible pattern when the leaves are assembled, the continuity of the pattern being destroyed upon removal of a leaf whereby said removal is readily detected.

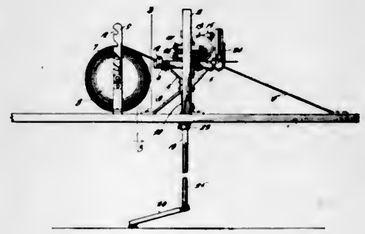
1,337,836. DEVICE FOR USE IN BUYING ICE. JOHN TEXAS GILBERT, De Funiak Springs, Fla. Filed Dec. 10, 1918. Serial No. 266,072. 5 Claims. (Cl. 116—2.)



4. A device of the class described including a receptacle, a closure therefor, a frame carrying said closure and adapted to be vertically reciprocated to bring the closure to the closed or open position, a series of drop signals,

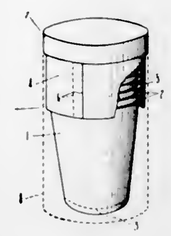
pins to hold the individual signals in the raised position, and means separately operable to displace an individual pin and permit a selected signal to drop, the frame in the lowered position limiting the downward movement of the signals and the signals being movable from a lowered to a raised position by the upward movement of the frame.

1,337,837. AUTOMATIC TICKET-DISPENSING MACHINE. JACOB L. GORE, Hugo, Okla., assignor of one-half to Almer L. Blount, Hugo, Okla. Filed Nov. 25, 1919. Serial No. 340,467. 2 Claims. (Cl. 211—33.)



1. In an automatic ticket dispensing mechanism, an upright, a rack bar mounted in the upright, a pedal mechanism for imparting a vertical reciprocating movement to the rack bar, a feed roller, an actuating member adapted to have an oscillatory movement imparted thereto by means of the rack bar, and a feed pawl carried by the actuating member and adapted to intermittently operate the said roller.

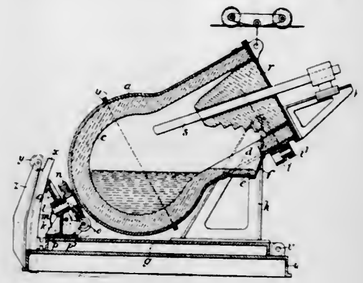
1,337,838. DISPENSING DEVICE. WILLIAM P. HAMMOND, Passaic, and LAWRENCE W. LUELLEN, Mountain Lakes, N. J., assignors, by mesne assignments, to Individual Drinking Cup Company, Inc., a Corporation of New York. Filed Apr. 17, 1915. Serial No. 21,962. 13 Claims. (Cl. 206—56.)



1. A dispensing device of the character described comprising a sectional container for paper drinking cups, said sections being formed to permit the projection of the cups outwardly therebeyond as the successive end sections are removed, and to support the cups in place.

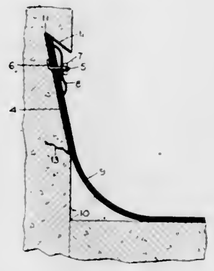
1,337,839. ELECTRICALLY-HEATED MELTING-FURNACE. LEONARD CHARLES HARVEY, Malden, England. Filed Nov. 11, 1919. Serial No. 337,236. 5 Claims. (Cl. 204—64.)

3. An electrically heated melting furnace comprising a substantially cylindrical shaped melting chamber having an open upper end and a closed curved bottom, means supporting the chamber in inclined position, means for rotating the chamber about an inclined axis extending longitu-



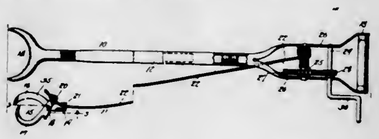
dinally through the chamber, and a heating element extending into the open end of said chamber.

1,337,840. WALL-FLASHING. WILLIAM L. HAWLEY, North Little Rock, Ark. Filed Oct. 1, 1919. Serial No. 327,628. 2 Claims. (Cl. 108—26.)



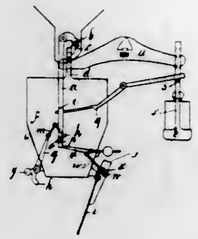
1. The combination with a vertical wall, and a roof, of a flashing strip comprising a plate inclined vertically with its lower edge flush with the face of the wall and having an integral anchoring strip at its lower edge and an integral flange at its upper edge projecting to the surface of the wall, waterproof sheets located against the plate and extending upwardly against said last-mentioned strip, and a spring clamping strip having its edges located against the waterproof sheets, bolts projected through the flashing strip and through said clamping strip, and nuts on the bolts for clamping said waterproof sheets against the flashing strip.

1,337,841. COMBINATION TRACTOR AND REPELLER. PETER C. JUHL, New York, N. Y. Filed July 15, 1919. Serial No. 310,899. 3 Claims. (Cl. 128—353.)



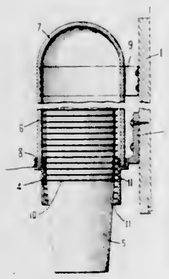
1. An obstetrical instrument, comprising a repeller provided at its forward end with a crotch, a tractor having a clamp provided with jaws pivotally connected with each other, and a flexible connection guided in one jaw and attached to the other jaw to close the jaws on exerting a pull on the flexible connection, and a drum mounted on the rear of the said repeller and on which winds the said flexible connection.

1,337,842. CLOSING DEVICE FOR THE MATERIAL-RECEPTACLES OF AUTOMATIC WEIGHING-MACHINES. JOSEF LAMBERTZ, Hennef-on-the-Sieg, Germany. Filed Nov. 10, 1917. Serial No. 201,297. 6 Claims. (Cl. 249—1.)



3. In an automatic weighing machine, a weighing receptacle, a hinged flap for closing the bottom thereof, a lever having a cam adapted to press against the edge of the flap from below to keep the latter in closed position, a toggle joint normally holding the said lever with its cam in closing position when stretched, means to collapse the toggle on the downward movement of the receptacle, and a catch lever fulcrumed on the framing of the machine and adapted to hold the receptacle in its lowest position until the latter is empty.

1,337,843. CUP-DISPENSER. LAWRENCE W. LUELLEN, Mountain Lakes, N. J., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc., a Corporation of New York. Filed July 2, 1914. Serial No. 848,534. 8 Claims. (Cl. 211—8.)

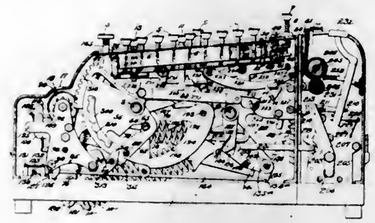


7. In a cup-dispensing device, the combination with a supporting device for a stack of nested cups, permitting the withdrawal of said cups one at a time through an orifice therein, said cup-supporting device having a plurality of vertically spaced cup engaging ribs, successive ribs being adapted to be engaged by successive cups, sufficient ribs being brought into engagement by the weight of the stack of cups to support said weight.

1,337,844. COMBINED ADDING AND LISTING MACHINE. WALTER F. MCCALEB, Dallas, Tex. Filed Feb. 1, 1915. Serial No. 5,439. Renewed Aug. 15, 1919. Serial No. 317,813. 46 Claims. (Cl. 235—60.)

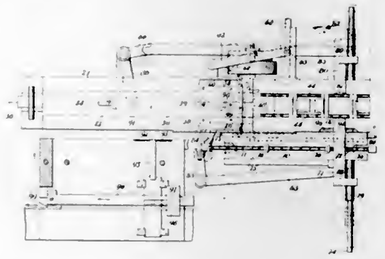
3. In an adding machine, in combination with columns of depressible keys, an adding wheel for each column, a rocking sector for actuating each adding wheel, means tending to rock said sector in one direction and rendered operable on the depression of any one of said keys, a slidable sector-bar corresponding to each column of keys having a part coöperating with its corresponding sector to limit the movement of the sector, and whereby said sector bar is itself actuated in the movement of the sector, and means on each sector-bar for engaging any key depressed in its column to limit the movement of the sector-bar.

12. In an adding machine, in combination with an accumulator, actuating mechanism coöperating therewith in the normal operation of the machine, carry-overs coöperating with said accumulator, mechanism coöperating with the accumulator for permitting totals and sub-totals to be



taken, a key for controlling said mechanism, a carry-over restorer, means for actuating the same, and a stop normally preventing the full depression of said key until the carry-over restorer has been actuated by the machine to restore the carry-overs to normal.

1,337,845. APPARATUS FOR FORMING CARTONS OR BOXES. WILLIAM P. MCGEOUCH, Arlington, and GEORGE C. BECKWITH, Somerville, Mass., assignors to Boston Woven Hose & Rubber Co., Boston, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1917. Serial No. 191,133. 9 Claims. (Cl. 93—2.)

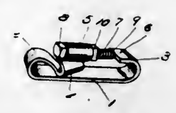


4. In an apparatus of the character described, in combination, members for shaping into a substantially rectangular form a substantially flat carton blank provided with end flaps, a movable carrier for said members, means for moving said carrier, means for closing said members to convert the substantially flat blank into a substantially rectangular form, and a device interposed between the layers of the substantially flat carton blank to separate the said layers and to hold a portion of the blank down while other portions thereof are being moved under the influence of said shaping members.

7. In an apparatus of the character described, in combination, mechanism for shaping, filling and sealing cartons, and a guideway coöperating therewith to receive and support the sealed cartons and provided with side walls, one of which is movable, and means for bodily moving said movable side wall intermittently toward the other side wall of said guideway to simultaneously compress a plurality of the sealed cartons as they are fed forward in said guideway and thereby cause each individual carton to be compressed a plurality of times as it is fed through the said guideway.

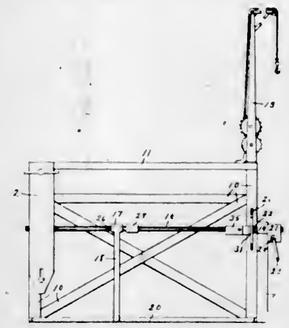
8. In an apparatus of the character described, in combination, a carrier for a substantially rectangular carton open at one end and provided with end flaps, a device for inserting an article into said carton, and a vertically reciprocating device to lower the bottom end flap below the path of movement of said inserting device and to arch said end flap upwardly.

1,337,846. CHAIN-COUPLING. GEORGE V. MATHIAS, Humboldt, Kans. Filed Apr. 30, 1919. Serial No. 293,873. 5 Claims. (Cl. 24—73.)



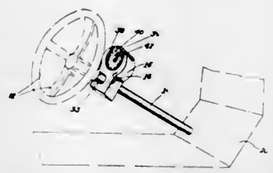
4. A chain connector consisting of a flexible strip bent upon itself to form a bar having a closed loop at one end and a hook at the other, and having a screw support extending integrally from the closed loop portion and spaced from but in line with the free end of the hook, a screw longitudinally adjustable in the support toward and away from the end of the hook, and a set nut on the screw to lock it rigid with the support when the screw and the end of the hook abut.

1,337,847. WORKBENCH, CRANE, AND ENGINE-STAND COMBINED. JOHN M. MATTIS, Sioux City, Iowa. Filed Oct. 8, 1918. Serial No. 257,416. 5 Claims. (Cl. 29—89.)



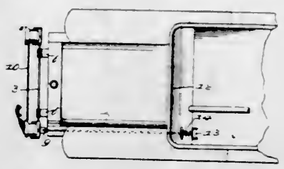
1. A device of the class described, comprising a frame, a standard for an engine stand fixed to and projecting from one end portion of said frame, said frame including a rod extending lengthwise near one margin, and a second standard slidable on said rod toward or away from the first standard.

1,337,848. DIRECTION-INDICATOR FOR DIRIGIBLE VEHICLES. WAWRZYNIEC PENDZIWIATER, Philadelphia, Pa. Filed Nov. 8, 1919. Serial No. 336,676. 1 Claim. (Cl. 116—31.)



In a direction indicator for dirigible vehicles, the combination with the steering post and hand-wheel of the vehicle, of a stationary sleeve through which said post passes, a second sleeve rotatable on the upper end thereof, operative connections between said hand-wheel and said second sleeve, a casing secured to said stationary sleeve, a bracket in said casing, a gear train in said casing, said gear train being driven by said second sleeve, a transparently covered dial on said casing, a pointer movable thereover, and a yoke connection between said pointer and said gear train, whereby the movement of said hand wheel is indicated on said dial.

1,337,849. HEADLIGHT-CONTROLLING MECHANISM. NELSON D. RICE, Yankee, N. Mex. Filed Jan. 14, 1918. Serial No. 211,789. Renewed Feb. 17, 1920. Serial No. 359,315. 1 Claim. (Cl. 240—61.)

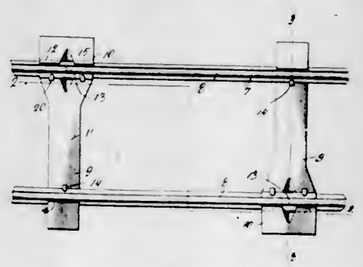


A headlight or control mechanism including a rotatable lamp standard, an operating rod adapted to be supported in the dash of a vehicle for swinging movement laterally in a horizontal plane to overcome dead center and having connection with the standard for moving the same, a foot pedal on the free end of the operating rod, and a coiled expansion spring working between the dash and the foot pedal for automatically moving the rod rearwardly and bringing the lamp standard to normal position after shifting thereof.

1,337,850. NON-ALCOHOLIC BEVERAGE. ALEXANDER L. STRAUS, Baltimore, Md., assignor to The Baltimore Process Company, Baltimore, Md., a Corporation of Delaware. Filed July 15, 1919. Serial No. 310,888. 7 Claims. (Cl. 99—11.)

1. The herein described non-alcoholic beverage the same containing a base material consisting of a fermented malt liquor from which substantially all the alcohol has been eliminated, and containing added water, salt, citric acid, a carbohydrate sweetening material and concentrated hops, substantially as described.

1,337,851. RAILROAD-RAIL FASTENING. SWAN ALBIN SWANSON, Kellettville, Pa. Filed Nov. 4, 1919. Serial No. 335,676. 6 Claims. (Cl. 238—46.)



1. The combination with a tie having a recess therein, of a pair of rails, splice bars joining the ends of said rails, and each of said bars being provided with means to be snugly received in said recess to prevent the rails from moving transversely upon the tie.

1,337,852. SOAP-HOLDER. STANISLAW SZUBA, Elizabeth, N. J. Filed Mar. 30, 1918. Serial No. 225,723. 1 Claim. (Cl. 45—28.)

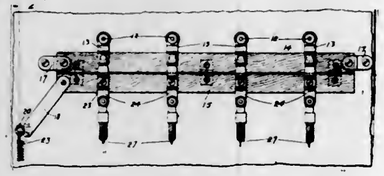
A soap holder comprising an elongated receptacle having outwardly flared side and end walls and a bottom provided with a plurality of spaced slots extending parallel to said side walls and terminating adjacent said end walls, thereby forming a plurality of spaced parallel ribs extending lengthwise of the receptacle, said ribs being V-shaped in cross section and having their narrowed portions presented upwardly for forming a supporting surface for a cake of soap and to permit the free circulation of

air about the underside of the cake of soap, a drip pan, and means carried by the end walls of said receptacle and the end walls of the drip pan for detachably connecting



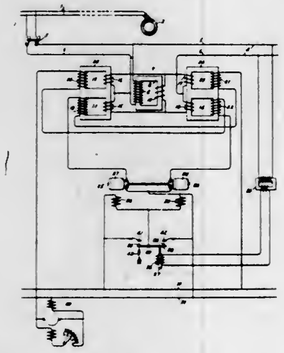
the drip pan to the receptacle in spaced relation to the same, the bottom wall of said receptacle being curved transversely whereby only the ribs adjacent the edges of the soap are engaged with the soap.

1,337,853. SPARK-GAP-CONTROLLING DEVICE. GEORGE HOOD TABER, Binghamton, N. Y. Filed Mar. 8, 1919. Serial No. 281,403. 1 Claim. (Cl. 175—183.)



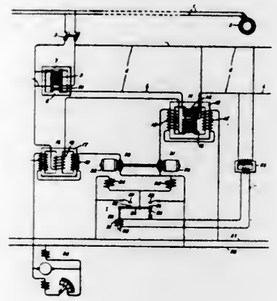
In a spark gap controlling device, the combination with an internal engine, of a pair of relatively fixed and movable bars of insulation hinged together, a plurality of contact members associated with a fixed bar, a like number of movable contact members secured to the movable bar and coöperating respectively with the fixed contact members, said fixed and movable contact members interposed in the ignition circuit of the engine between the spark plugs and the source of electrical energy, a lever fixed to said movable bar to rotate it with respect to the fixed bar, thereby increasing or decreasing the spark gap between the fixed and movable contact, a manually operated connecting link pivoted to the lever, a plurality of notches in said link, a catch arranged to engage said notches, and a spring normally holding the link in contact with the catch.

1,337,854. REGULATING SYSTEM FOR ALTERNATING-CURRENT CIRCUITS. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 10, 1918. Serial No. 244,170. 10 Claims. (Cl. 171—119.)



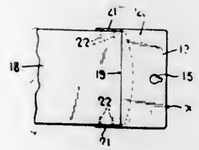
1. The combination with an alternating current circuit of a transformer having an inducing winding and an induced winding, reactors for connecting one of said windings to said circuit, and means for varying the inductances of said reactors to cause the electromotive forces developed in said induced winding to boost or buck the voltage of said circuit.

1,337,855. REGULATING SYSTEM FOR ALTERNATING-CURRENT CIRCUITS. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 10, 1918. Serial No. 244,171. 10 Claims. (Cl. 171—242.)



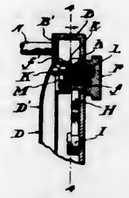
1. The combination with an alternating current circuit of means for regulating an electrical condition thereof comprising a transformer having a secondary winding, connected in said circuit, and a primary winding, a reactor having a winding connected in series with said primary winding, means for producing in said transformer a flux having a lower frequency than the frequency of said circuit, and means responsive to an electrical condition of said circuit for varying said flux and the inductance of said reactor.

1,337,856. SCRAPER FOR CLOTHES-BRUSHES. WILLIAM E. THOMSON, Jacksonville, Ill., assignor of one-half to Albert C. Baldwin, Jacksonville, Ill. Filed Mar. 10, 1917. Serial No. 153,848. 1 Claim. (Cl. 15—30.)



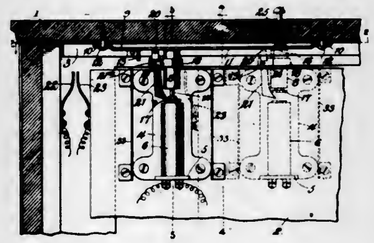
The combination with a brush having a body formed with a transverse recess in one of its ends provided with a straight wall extending from one side of the brush to the opposite side, of a scraper, said scraper comprising a flat rectangular plate exceeding the transverse dimensions of said body and provided with a straight back edge, integral apertured ears formed on and twisted at opposite corners extending in a longitudinal direction to the surface of said plate and with respect to the body permitting said ears to engage with opposite longitudinal edges of the body, and means insertible in the apertures of the ears for securing the scraper transversely of said body and within the recess with the straight back edge of the scraper contacting with the straight wall of the recess.

1,337,857. FISHLINE-REEL. SAMUEL THOMAS THORPE, Bristol, Conn., assignor to The Horton Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Oct. 17, 1919. Serial No. 331,441. 7 Claims. (Cl. 242—84.5.)



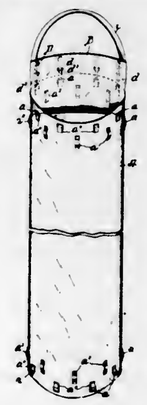
1. A reel embodying a rotary spool, a drag embodying a rotary carrier, and a friction member mounted thereon eccentrically with relation to its axis of rotation, and in position to frictionally coöperate with the reel at different distances from the axis of rotation of the reel.

1,337,858. TELEPHONE-BOOTH CONTROLLER. GEORGE ERNEST THUM and MAX THEIMER, Elizabeth, N. J. Filed Jan. 19, 1918. Serial No. 212,723. 14 Claims. (Cl. 179—51.)



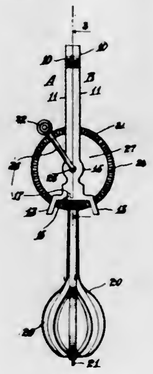
1. The combination with a telephone booth provided with a door and with electrical contacts requiring the closing of the door to establish telephonic communication, of a lock for the door permitting a limited range of opening movement of the door without unlocking it, and means controllable solely from the outside of the booth to cause the lock to move from the locked to the unlocked position.

1,337,859. COTTON-PICKER'S SACK. CLINT BUSH TIPTON, Tiptonville, Tenn. Filed Feb. 2, 1920. Serial No. 355,578. 2 Claims. (Cl. 150—2.)



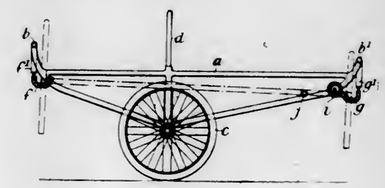
1. In a cotton picker's sack arrangement, the combination with a tubular sack, reversible end for end, and open at both ends, and a series of eyelets secured to the exterior of said sack near each end thereof but spaced respectively a short distance toward the longitudinal center of said sack from said ends, of means coöperating with said eyelets near the lower end of the sack for closing said lower end when desired, and a harness comprising a shoulder strap and an apron secured thereto, said apron spanning the two ends of the shoulder strap and having a free end forming a flap adapted to project down into the mouth of said sack and to mask the rear upper edge of said sack, and to serve as a chute for the picked cotton, with a series of snap hooks secured on the rear side of said harness and adapted to engage the corresponding eyelets on the rear of said sack near the upper end thereof, substantially as described.

1,337,860. EGG-BEATER. LOUIS ULLMAN, New York, N. Y. Filed Nov. 29, 1919. Serial No. 341,399. 2 Claims. (Cl. 259—131.)



1. In an egg beater, the combination of a handle comprising like members each having a bifurcated shank the lower face of each branch of the shank of one member having a slot therein, an angular lug projecting from each branch of the shank of the other member, said lugs being adapted to enter said slots, a main gear wheel supported in the space between the bifurcated shanks of the handle, beaters depending from said handle, pinions carried by said beaters and meshing with said gear wheel, and means for rotating the main gear wheel to impart rotary motion to the beaters.

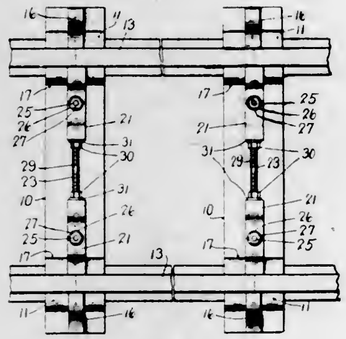
1,337,861. APPARATUS FOR TRANSFERRING BEDSTEADS AND OCCUPANTS FROM PLACE TO PLACE. MAGNUS VOLK, Brighton, England. Filed July 14, 1919. Serial No. 310,729. 7 Claims. (Cl. 280—51.)



6. A bed supporting and carrying truck comprising an open substantially rectangular frame of a size to surround a bed and including side bars connected together at their ends by end bars, an inverted U-shaped member extending across the frame intermediate its ends, stub axles secured to the lower ends of the U-shaped member, supporting wheels mounted on said axles, the space between the stub axles being unobstructed below the axis of the wheels and hooks pivotally connected to the frame and

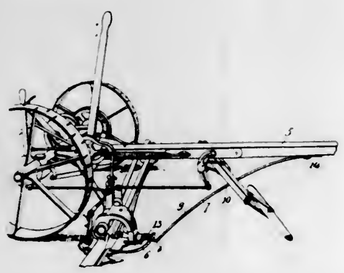
adapted to detachably engage and support a bed, said U-shaped member extending to a height sufficient to permit the same to pass over a bed when the wheels are moved along the sides of said bed.

1,337,862. RAIL-FASTENER. JAMES T. WADE, Brady, Tex. Filed Aug. 1, 1919. Serial No. 314,681. 1 Claim. (Cl. 238—59.)



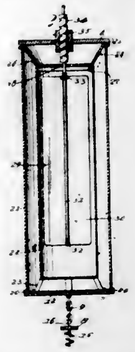
The combination with a tie, of a clamp secured to each end thereof for engagement with the outer flange of the rail, a groove extending longitudinally of the tie between said clamps, said groove having openings in the bottom wall thereof extending through the tie, adjustable clamps engageable with the inner flanges of the rails, a centrally arranged member extending at right angles from each of said adjustable clamps, a rib extending longitudinally of each of the centrally arranged members and slidable in the groove of the tie, a threaded rod having its ends entering sockets provided in the inner ends of the said centrally arranged members to adjust the clamps to the rails and bolts extending upwardly through the tie openings and passing through elongated openings in the centrally arranged members of the adjustable clamps to permit of adjustment and hold the clamps in contact with the tie.

1,337,863. MOWING-MACHINE ATTACHMENT. ROBERT W. WALLACE, Montesano, Wash. Filed Nov. 25, 1919. Serial No. 340,481. 2 Claims. (Cl. 56—320.)



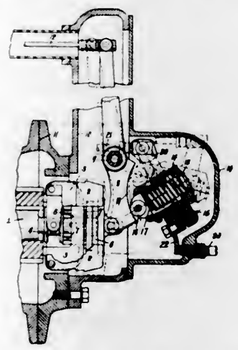
1. In a mowing machine having a cutter bar provided with an inner shoe, the combination therewith, of a rod secured loosely at one end directly to said inner shoe and slidably secured near its outer end to the tongue of the machine, said rod being bent from its connection with the shoe first upwardly, then inwardly toward the tongue and then forwardly beyond the connection of the draft devices to the tongue, whereby the rod is at all times clear of the heels of the draft animal.

1,337,864. CHURN. GEORGE P. A. WEISENBORN, Kansas City, Mo. Filed Mar. 1, 1918. Serial No. 219,905. 1 Claim. (Cl. 259—92.)



A churn comprising in combination a supporting bracket, a receptacle, means for attaching the receptacle to the bracket so that the former may be reciprocated, a rod rotatably mounted on the supporting bracket, the rod entering the receptacle through the top thereof, and a dasher carried by the rod within the receptacle, the rod having an enlarged portion where it passes through the top of the receptacle, the top of the receptacle being formed with a collar having an internal spiral rib which engages a spiral groove in the enlarged portion of the rod, whereby the reciprocation of the receptacle will result in relative longitudinal movement between the dasher and the receptacle as well as rotary movement of the dasher within the receptacle.

1,337,865. VARIABLE-SPEED-GOVERNOR CONTROL. WALTER W. WELLS, Clyde, Ohio, assignor of one-half to John C. L. Krebs, Clyde, Ohio. Filed Nov. 18, 1918. Serial No. 263,010. 11 Claims. (Cl. 264—3.)

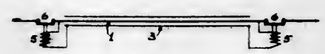


1. In an engine, a throttle operating member, a governor, a lever connecting said member and governor, and adjustable means having a spring acting at one end against said lever to resist a governor actuated movement thereof and having its lever coacting end shiftable lengthwise of the lever to vary its effective resistance thereon by an adjustment of said means.

1,337,866. SYSTEM FOR PROTECTING ELECTRIC CABLES. FREDERICK BERNARD WHITAKER, deceased, Rugby, England, by Frank P. Whitaker, executor, Rugby, England, and Ethel Grace Griffiths, formerly Whitaker, executrix, Rugby, England. Filed Sept. 27, 1917. Serial No. 193,531. 8 Claims. (Cl. 175—294.)

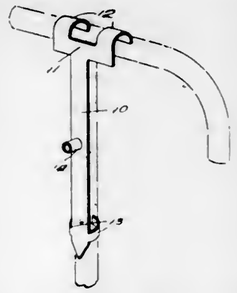
1. A system for the protection of electric conductors, cables and feeders, consisting in the combination with

the conductor to be protected of a conducting shield located in an intermediate position in the insulation between the conductor and earth, insulation separating said shield from said conductor and from earth, a circuit con-



necting said conductor with said shield, switch apparatus for isolating said conductor, and means operable by the current in said circuit for causing the actuation of said switch apparatus.

1,337,867. BED-LAMP. HAROLD P. WHITAKER, Peoria, Ill. Filed Sept. 6, 1918. Serial No. 252,861. 1 Claim. (Cl. 240—52.)



A lamp bracket comprising a vertical member having formed thereon and at right angles thereto a cross strip, resilient clamping members formed on said cross strip and curved rearwardly to a degree greater than a semi-circle to prevent accidental displacement of the bracket, oppositely curved resilient clamping arms extending at right angles from the lower edges of the vertical member and curved rearwardly and inwardly to a degree greater than a semi-circle, and means on said vertical member for supporting a lamp in adjustable position with respect thereto.

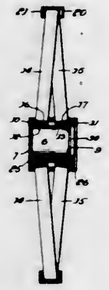
1,337,868. PLOW. ARTHUR O. WHITE, Greensburg, Ind. Filed June 3, 1919. Serial No. 301,378. 2 Claims. (Cl. 97—18.)



1. In a plow, the combination with a mold board, having a slot, of spaced lugs projecting from one side of the mold board and at one side of said slot, a shaft having one end pivoted between said lugs and adapted to extend across said slot, a disk removably mounted upon said shaft and arranged to rotate within the slot, for cutting the turned up portion of ground as it passes over the mold board, and means for securing the opposite end of said shaft to the mold board to hold said parts fixed relatively.

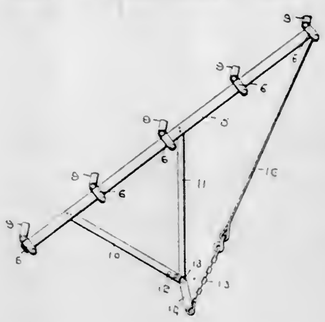
1,337,869. WHEEL. JOHN W. WILLIAMS, Santa Rosa, Calif., assignor to Western Steel Auto-Wheel Company, Reno, Nev., a Corporation. Filed Mar. 22, 1917. Serial No. 156,568. 3 Claims. (Cl. 21—69.)

1. A wheel comprising a hub, spokes, a felly, a pair of spoke seats, one of said spoke seats being adapted to seat certain spokes and the other seat being adapted to seat certain other spokes, means for holding said spokes in staggered relation, means connecting the outer ends of the spokes to the felly, a hub sleeve extending through said spoke seats, a flange on one end of said sleeve for engaging one of said spoke seats and a nut screwing on the other end of said sleeve against the other spoke seat



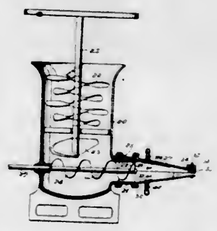
for drawing and holding said seats in seating engagement with said spokes, a pin on one of said spoke seats, said sleeve being provided with a hole to receive said pin and said hub being provided with a hole to receive said pin whereby the hub, hub sleeve and spoke seat are locked so as to turn together.

1,337,870. DRAFT-GEAR FOR GANG-PLOWS. STANFORD WILSON, Davis, Calif. Filed Oct. 18, 1919. Serial No. 331,733. 3 Claims. (Cl. 97—68.)



1. A draft gear for gang plows including a draft rod, plow beam attaching clips carried by the rod, draft bars connected adjacent the center and one terminal of the rod, and a flexible draft element connected with the opposite terminal of the rod and extending forwardly therefrom.

1,337,871. METHOD OF AND MEANS FOR PRODUCING SAGGARS AND THE LIKE. FRANKLYN J. WOLFF, Trenton, N. J. Filed May 19, 1919. Serial No. 298,155. 9 Claims. (Cl. 25—14.)



1. The method of producing saggars which consists in mixing a solid fragmentary filler with a plastic vehicle

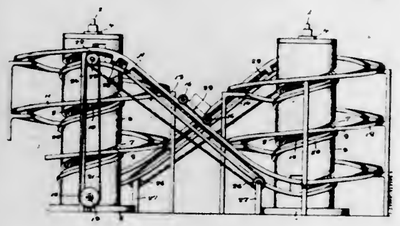
or binder, bodily advancing the mass thus formed through a reforming outlet to produce a continuous sheet or ribbon, detaching and removing from the path of the sheet or ribbon, independent sections of proportional dimensions to form the bottom and walls of the product and finally assembling and firing the same.

1,337,872. COMBINED COLLISION-BUFFER AND DIRECTION-INDICATOR FOR VEHICLES. FRANK C. ZAHNOW, Springfield, Mo., assignor of one-half to L. H. Gleason, Springfield, Mo. Filed June 4, 1919. Serial No. 301,723. 4 Claims. (Cl. 40—132.)



1. A combined collision buffer and direction indicator, comprising a channel member having a series of light supports, lights adapted to be carried thereby, and perforations in the rear wall of said channel member adjacent each light and coacting with said lights to constitute signals.

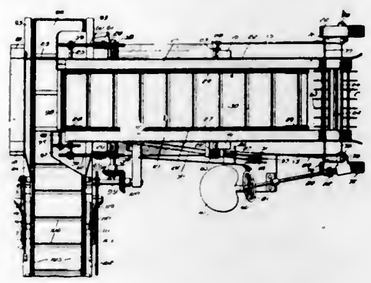
1,337,873. POWER-TRANSMISSION APPARATUS. WENZEL ZEMAN, Schenectady, N. Y. Filed Apr. 4, 1919. Serial No. 287,566. 4 Claims. (Cl. 104—57.)



1. In an apparatus of the class specified, two vertical rotary shafts in spaced relation to each other, cylindrical barrel gears fast thereon, an endless track embodying spiral runs encircling said shafts and inclined and substantially rectilinear runs forming continuations of said spiral runs, a wheeled body supported by and movable along said track, gearing means carried by said body and adapted to transmit motion to said vertical shafts and means driven by said shafts for propelling said body along the said inclined and substantially rectilinear runs of the track.

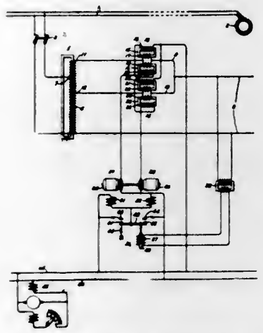
1,337,874. FRAME-ELEVATING MEANS FOR SHOCK-LOADERS. NELS PETER ALBERTSON, Frankfort, S. D. Filed Jan. 19, 1918. Serial No. 212,672. 4 Claims. (Cl. 180—41.)

1. In a machine of the class described, a main frame, a rear axle supporting the same and having ground wheels, a motor supported on the frame, vertically movable bearing members carried at the front end of the frame, perpendicular shafts disposed in said bearing members and connected to move together and having spindles, steering wheels on the spindles, a shaft having winding drums, contractile and flexible elements connecting said bearing members with the winding drums, guide means at the upper ends of the perpendicular shafts over which the flexible elements are guided, means connected with one of



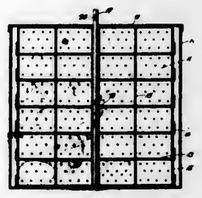
the perpendicular shafts for turning the same about their axes, and means including a worm and worm gear for rotating the shaft having winding drums.

1,337,875. REGULATING SYSTEM FOR ALTERNATING-CURRENT CIRCUITS. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 17, 1918. Serial No. 258,620. 10 Claims. (Cl. 171—242.)



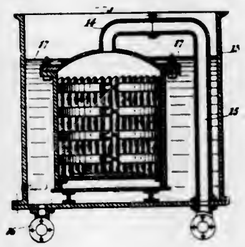
1. The combination with an alternating current circuit of means for regulating an electrical condition thereof comprising a transformer, a plurality of reactors having windings connected to spaced apart points on a winding of said transformer, means for developing in one of said reactors magnetic flux of lower frequency than the frequency of said circuit, and means for varying said flux.

1,337,876. EGG-BOILER. GIUSEPPE ALFISI, Toronto, Ontario, Canada. Filed June 21, 1919. Serial No. 305,771. 2 Claims. (Cl. 53—1.)



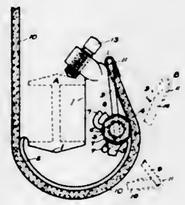
1. An egg boiler comprising a receptacle, a plurality of containers removably positioned therein in superimposed relation and divided into separate egg receiving compartments and a standard projecting upwardly from the lowermost container and threaded through the upper containers to hold the latter assembled and provide for their simultaneous insertion into and removal from the receptacle.

1,337,877. PROCESS OF DYEING, WASHING, AND SIMILARLY TREATING YARN IN THE FORM OF HANKS, SKEINS, OR THE LIKE. JOSEPH ANNICQ, Renaix, Belgium. Filed Sept. 2, 1919. Serial No. 321,258. 3 Claims. (Cl. 8—18.)



1. The process of dyeing yarn consisting of, compressing a quantity of yarn and placing said yarn in a chamber, subsequently releasing the pressure allowing the yarn to evenly expand and fill the chamber to maintain a uniform pressure on all the yarn, dyeing the yarn by forcing a dye solution through the chamber and the yarn, washing the yarn of the excess dye solution by forcing a washing solution through the chamber and the yarn, removing the excess liquid by applying a vacuum to one end of the chamber and then removing the yarn from the chamber for drying.

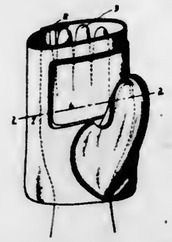
1,337,878. SNUBBER. CHARLES LEWIS BAENDER, Oakland, Calif. Filed Jan. 16, 1919. Serial No. 271,433. 4 Claims. (Cl. 267—3.)



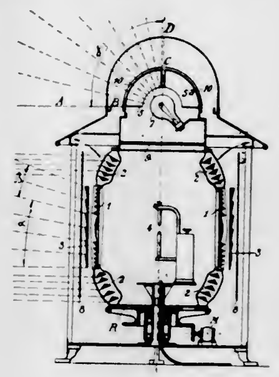
1. A snubber for automobiles comprising a tension spring, a flexible member and a friction surface, and devices coöperating therewith whereby the effective action of said spring in preventing movement of the flexible member in one direction decreases from one extreme position of said flexible member to an intermediate position and increases from said intermediate position to the other extreme position thereof.

1,337,879. PAD. ANDREW J. BEAN, Ottsville, Pa. Filed Oct. 28, 1919. Serial No. 333,866. 1 Claim. (Cl. 2—104.)

In a glove for the purpose set forth, the combination of a single piece of leather or other suitable material having its ends stitched together to form a palm and finger encircling casing, a reinforcing piece of suitable material sewed on the casing and extending transversely from a point in a plane approximate the center of the casing to a point adjacent the upper end thereof; said reinforcing material also extending from a point adjacent the little finger of the wearer to a point in rear of the index finger, an aperture provided in the casing below the reinforcing material, a thumb encircling portion stitched to the aperture except near the upper end of said thumb, and a reinforcement stitched to the thumb portion; said thumb portion being formed of a portion of material that is removed to form the aperture in the casing.

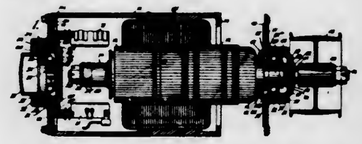


1,337,880. FLASH-LIGHT FOR AERIAL NAVIGATION. HENRI LUGLIEN MARIE JOSEPH BENARD, Paris, France. Filed May 22, 1919. Serial No. 298,991. 3 Claims. (Cl. 240—49.)



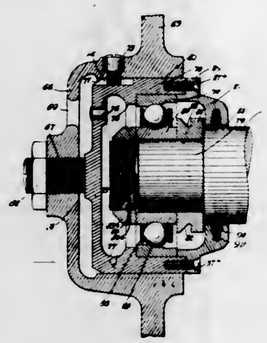
1. A signaling apparatus comprising in combination a source of light, a projector for the beam emitted by said source, means for amplifying said beam in the vertical plane, an auxiliary light above said first-named source of light, a drum in which said auxiliary light is mounted, said drum having apertures extending from the horizontal to the vertical plane.

1,337,881. BEARING AND MOUNTING THEREFOR. GEORGE R. BOTT, New York, N. Y., assignor to The Norma Company of America, a Corporation of New York. Filed June 26, 1916. Serial No. 105,886. 7 Claims. (Cl. 64—36.)



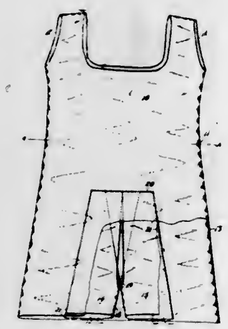
1. In a bearing, the combination with a shaft and bearing support provided with an opening surrounding said shaft, of separable type anti-friction means including an inner race mounted on said shaft, and closure means engaging said support inclosing said anti-friction means at one side, said support inclosing said means at the other side, said shaft being removable with said inner race through said opening of said support.

1,337,882. BEARING AND MOUNTING THEREFOR. GEORGE R. BOTT, New York, N. Y., assignor to The Norma Company of America, a Corporation of New York. Filed June 26, 1916. Serial No. 105,887. 8 Claims. (Cl. 64—36.)



1. In a bearing, the combination with a shaft and an end plate, provided with an opening therein of anti-friction means on said shaft, housing means entirely inclosing said anti-friction means circumferentially and endwise, said housing means and anti-friction means adapted to be assembled as a unit upon said shaft, said housing means adapted to engage said opening of said end plate and have sliding movement therein when said end plate is fixed.

1,337,883. LADY'S UNDERGARMENT. UINTAH RUPLE BOYD, San Francisco, Calif. Filed Aug. 27, 1919. Serial No. 320,277. 2 Claims. (Cl. 2—144.)



1. A union garment comprising a chemise, separate drawer members formed of two folds, the rear fold being stitched to the back of the chemise along a line considerably below the waist line of the garment and the front folds being stitched to the front of the chemise along a similar line, the outer vertical edges of the members being stitched to the front and back of the chemise to combine with the skirt thereof to form leg enveloping portions while the inner vertical edges remain free to provide a crotch opening.

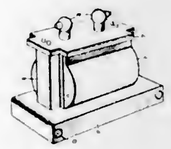
1,337,884. DARNER. MARIE CESKA, Bowdle, S. D. Filed Sept. 28, 1918. Serial No. 256,070. 1 Claim. (Cl. 223—14.)

A darner comprising a substantially bell shaped body and a handle secured to said body at the smaller end thereof and disposed substantially at right angles to the body, said body being provided with a central recess in its larger end and having an upstanding flange surrounding said



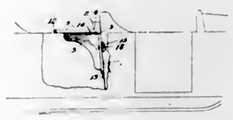
recess, said flange being remote from the periphery of the body and coöperating therewith to space material placed about the body away from same.

1,337,885. X-RAY TRANSFORMER. WILLIAM D. COOLIDGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 27, 1919. Serial No. 307,092. 6 Claims. (Cl. 175—361.)



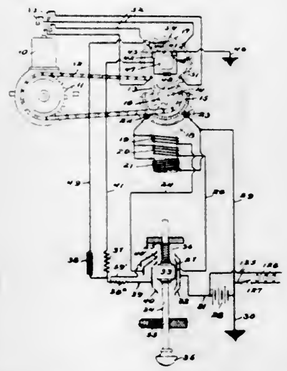
1. In transformers or the like, the combination with a core, provided with a winding, a casing provided with a channel portion in which said core is seated and a belled-out portion following the contour of the winding, and a combined core anchoring and lead protecting device.

1,337,886. AUTOMOBILE AUXILIARY TABLE. SHIKER M. DEBAKEY, Lake Charles, La. Filed Jan. 9, 1920. Serial No. 350,358. 3 Claims. (Cl. 45—51.)



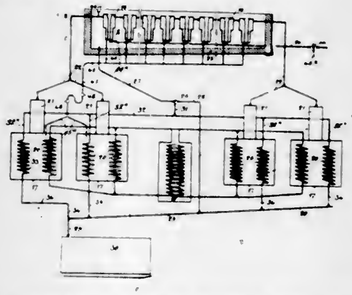
3. An improved table including a vertically-disposed base-board, a head on the upper longitudinal edge of the base-board projecting rearwardly beyond the plane of the base-board and having two stepped surfaces on the under side of the head beyond the base-board, a pair of leaves hinged to swing in a horizontal plane and supported from said base-board, said leaves having their upper edges adapted to engage beneath one of said stepped surfaces, and said leaves lying within the plane of said stepped surface when in the folded condition, a table top hinged for vertical swinging to said head and adapted when folded to lie parallel with the base-board and in the plane with the second-mentioned stepped surface, whereby to confine the leaves between said base-board and table top, the second-mentioned stepped surface acting as a stop to engage the upper surface of the table top when elevated, a keeper carried by the free edge of said table top and by the lower edge of the base-board for holding the table top in the collapsed condition, headed pins projecting from said base-board, and an object having key-hole slots adapted to be engaged by said headed pins, substantially as described.

1,337,887. STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JAMES K. DELANO, New York, N. Y. Original application filed Apr. 17, 1915, Serial No. 22,085. Divided and this application filed Dec. 9, 1916. Serial No. 136,115. 1 Claim. (Cl. 290—35.)



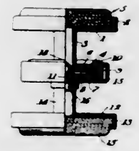
In an electrical system for use with internal combustion engines, the combination, with a dynamo motor whose armature shaft is adapted to drive or to be driven by an internal combustion engine, and a storage battery arranged to supply current to said dynamo motor when the latter operates as a motor, and to be charged from said dynamo motor when the latter is driven as a generator, of an ignition system for such engine arranged to take current from said battery, a resistance disposed between the battery and the ignition system, a shunt around said resistance, and control means whereby the circuit connections between said battery, ignition system and dynamo motor may be varied acording to whether the engine is being started, is running normally, or is at rest, said control means comprising a longitudinally reciprocable conductive switch member movable into "starting" and "running" positions, corresponding to the opposite extremes of its travel, and into "off" position intermediate such extremes, a plurality of double contact members so arranged that, in both starting and running positions of said switch member, said battery is connected to said ignition system through said resistance and also to said dynamo motor, and another contact member whereby, when said switch member is in starting position, the battery is also connected to said ignition system through said shunt, said switch member, when in its intermediate or "off" position, engaging none of said contact members.

1,337,888. APPARATUS FOR ICE-MAKING AND REFRIGERATING PURPOSES. CHARLES DELAYGUE, Paris, France. Filed Feb. 27, 1914. Serial No. 821,428. 3 Claims. (Cl. 62—118.)



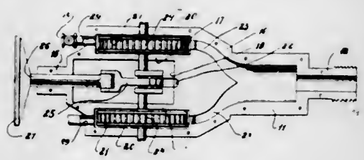
1. An ice making and refrigerating plant, comprising a set of generator absorbers, a cooling coil in each generator absorber, a set of refrigerators, a water circulation tank within which the refrigerators are arranged, a common means fo heating the set of generator absorbers, a discharge tank, and a system of pipes and valves connected with the water circulation tank, the discharge tank, and the cooling coils and so arranged that the water when leaving the tank may pass directly into the discharge tank without passing through the cooling coils in the boiler, or may pass indirectly into said tank by passing through the cooling coils of the generator absorbers.

1,337,889. SEPARABLE BUTTON. JAMES A. DORAN and JOSEPH G. DORAN, Providence, R. I. Filed Oct. 13, 1919. Serial No. 330,242. 8 Claims. (Cl. 24—102.)



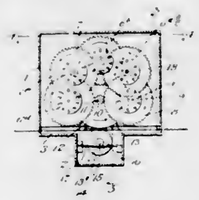
1. A separable button, having a socket member and a complemental head member, said members having adjacent flanges or shoes, one of which is concealed within the other, and means to separably connect said members consisting of a spring element and a coöperating rigid and inflexible head adapted to engage with said spring element.

1,337,890. SCRAPING-MACHINE. OTTO DORTHEN, Stillwater, Minn. Filed Sept. 13, 1919. Serial No. 323,550. 5 Claims. (Cl. 253—2.)



1. In a machine of the class described, a casing, a crank shaft journaled therein, rotors fixed upon the shaft and including fluid receiving buckets, said casing having a fluid inlet, means for directing the fluid to the bucket, a pitman connected with said shaft, and a tool holder detachably associated with said pitman and arranged for reciprocatory motion within the casing.

1,337,891. CLOTH-MEASURING DEVICE. LLOYD P. DUNKELBERGER, Allentown, Pa. Filed Apr. 13, 1918. Serial No. 228,432. 2 Claims. (Cl. 33—134.)



1. A cloth measuring device for attachment to looms comprising a casing divided into separate upper and lower compartments and having a slot opening through its end walls and one of its side walls at the junction of the compartments and forming a passage for the

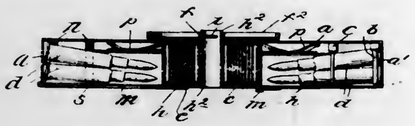
travel of the cloth, a toothed measuring wheel mounted in the upper compartment and projecting into said passage, for engagement with the cloth, a spring pressed backing roller mounted in the lower compartment and having recesses to receive the teeth of the wheel, and indicating mechanism actuated by the wheel in the travel of the cloth.

1,337,892. TELEPHONE RECEIVER AND RECEIVER-SWITCH. ARTHUR ENGELBERG, Oakland, Calif. Filed Jan. 27, 1919. Serial No. 273,245. 2 Claims. (Cl. 179—164.)



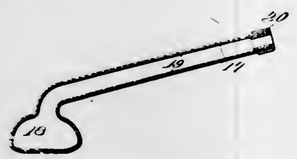
2. In a telephone, a fixed receiver hook, and a receiver switch including contacts, a roller, a wedge and means for forcing said wedge between said roller and said contacts to close the switch when the receiver is off the hook and for withdrawing said wedge to open said switch when the receiver is placed on the hook.

1,337,893. CARTRIDGE-MAGAZINE FOR RIFLES AND MACHINE-GUNS. MOUBRAY GORE FARQUHAR, Edgbaston, Birmingham, and ARTHUR HENRY HILL, Birmingham, England. Filed Dec. 30, 1918. Serial No. 268,968. 5 Claims. (Cl. 89—33.)



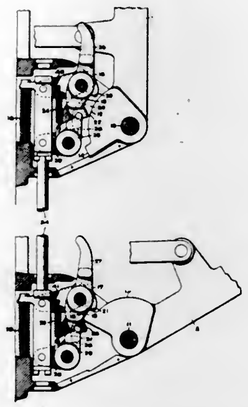
1. In a cartridge container, means for rotating said container, means for maintaining the cartridges in spaced relation therein, a cover member having formed therein a radial slot and cartridge feeding abutments positioned adjacent said slot and means including a spring pressed plate positioned in said container for forcing cartridges through said aperture.

1,337,894. ELECTRODE. JAMES K. FORSHEE, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,784. 15 Claims. (Cl. 174—89.)



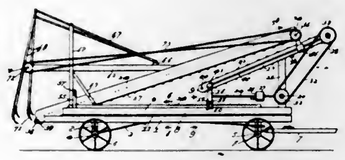
3. An electrode of the character described comprising a hollow body open to the atmosphere and formed of an internal electro-conductive element and an external dielectric element, said electro-conductive element having a single means for connection with a source of electrical energy, said elements being so related that any grounding of the current must take place through the dielectric element.

1,337,895. ELECTRIC SWITCH. HENRY G. FRENCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 31, 1917. Serial No. 183,773. 4 Claims. (Cl. 200—50.)



4. In combination with two electric switches, separate operating members therefor having an intermediate position between switch closing and opening positions, independent latches biased to restrain said members in said intermediate position when moving in switch opening direction and to permit said members to move unrestrained in switch closing direction, and means rendered operative by the movement of either operating member to switch closing position to prevent the movement of the second operating member to switch closing position.

1,337,896. LOADER. NORMAN A. FULLER, Yamhill, Oreg. Filed May 27, 1918. Serial No. 236,840. 5 Claims. (Cl. 193—3.)

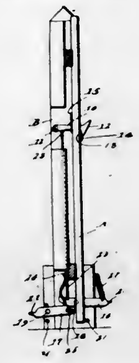


2. An apparatus of the kind described embodying a supporting platform, a relatively stationary conveyer carried by the platform, a relatively movable conveyer carried by the platform, supporting means for the upper end of the movable conveyer, said supporting means being carried by the stationary conveyer and including a positive driving connection between the two conveyers and means for shifting the movable conveyer along the said platform, the said driving connection the while remaining intact.

1,337,897. GATE-OPERATING MECHANISM. FREDERICK B. GILBERT, Modesto, Calif. Filed Mar. 28, 1919. Serial No. 285,757. 2 Claims. (Cl. 39—28.)

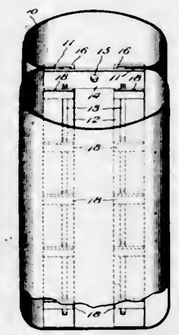
1. In a gate structure including a horizontally swinging gate provided at its free edge with a catch, a post, a latch bar pivoted on said post and shouldered for engagement with said catch, a pair of levers pivoted upon said post and terminating at their outer ends in pedals arranged in non-obstructing relation to said gate, a link pivotally connected with one of said levers and with said latch bar, the other of said levers having its inner end

abuttingly engaging said first named lever, a spring connected with said first named lever for maintaining the



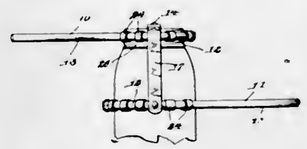
same in normal position, and a kicker member carried by said first named lever and engaging the gate for forcing the same open when either of said pedals is depressed.

1,337,898. STRAINER OR RECEPTACLE. THOMAS W. GILMER, Bay Minette, Ala. Filed May 31, 1919. Serial No. 300,932. 2 Claims. (Cl. 150—51.)



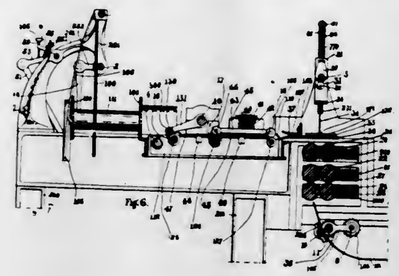
1. A device of the class described comprising a folded strip of flexible material, a removable frame comprising spaced parallel slotted members, a bar connecting the adjacent ends of said members, slotted clamping strips and fastening devices passing through the slots of the spaced parallel members and clamping strips of flexible material between said members and strips.

1,337,899. JAR WRENCH AND HOLDER. FRED F. GIRARD, Washingtonville, Ohio. Filed Dec. 5, 1919. Serial No. 342,648. 3 Claims. (Cl. 81—3.1.)



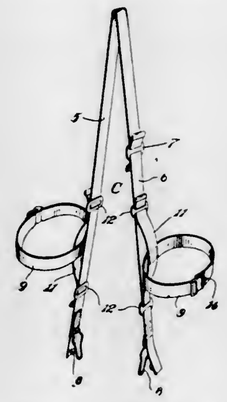
3. A combined holder and wrench comprising upper and lower clamping members oppositely disposed, an inverted U-shaped member terminally secured to the lower member and straddling the upper member, a brace for said upper member, said brace being disposed transversely of the member and pivotally associated therewith at one end, and a slot and pin connection between the member and the opposite end of the brace.

1,337,900. CUTTING AND FOLDING MACHINE. CHARLES GUTBERLET, Philadelphia, Pa. Filed Dec. 4, 1916. Serial No. 135,061. 12 Claims. (Cl. 270—57.)



1. In a machine for folding cards and cutting the folded cards into tickets, the combination with a card feeding device, a conveyer, a positor provided with an end stop, a side stop and a side adjuster, a folding knife, a folding and cutting stack, a ticket packing device having its ticket pushing mechanism located to be free from the upper of the leaves of all the tickets previously packed and driving forward separately each batch of tickets delivered by the folding and cutting stack and pushing each ticket individually into the fold of the ticket preceding it.

1,337,901. GARMENT-SUPPORTER. JAMES F. GODWARD, Ashtabula Harbor, Ohio. Filed Mar. 3, 1919. Serial No. 280,366. 1 Claim. (Cl. 2—126.)



A garment supporter comprising a hanger strap for straddling the crotch of the trousers, means for detachably connecting its stretches to the hose, garters for embracing the limbs, and an upright elastic loop strap lying along each stretch with its body passing loosely through a garter, and means for connecting its ends to the stretch in adjusted positions.

1,337,902. SPEAR. ELLSWORTH GRAY, Goose Creek, Tex. Filed Aug. 4, 1919. Serial No. 315,039. 2 Claims. (Cl. 294—96.)

1. A spear for withdrawing pipe including a tapering mandrel provided for attachment to the lower end of a string of tubing, and formed with an outwardly threaded rod, an expansible pipe engaging member fitted over said mandrel and adapted to enter the pipe to be pulled and

formed with grip jaws, said mandrel wedging between said jaws to expand the same into engagement with the pipe, when the mandrel is moved upwardly relative to the

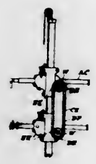


jaws, and a nut threaded to the rod and movable by the rotation thereof into position to lock said mandrel and member against movement relative to each other.

1,337,903. SYNTHETIC PRODUCTION OF AMMONIA. HAROLD CECIL GREENWOOD, London, England. Filed Feb. 15, 1918. Serial No. 217,445. 6 Claims. (Cl. 23—21.)

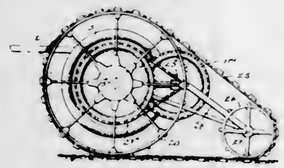
1. In a process for the synthetic production of ammonia from hydrogen and nitrogen the step which comprises passing either gas over an amid of one of the alkali metals prior to passing the mixture of gases through the catalyst converter.

1,337,904. X-RAY TUBE-STAND AND TABLE. ERNEST ELIAS GREVILLE, London, England. Filed Apr. 4, 1918. Serial No. 226,703. 4 Claims. (Cl. 250—34.)



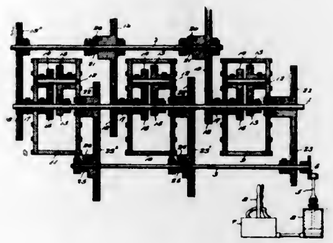
4. An X-ray tube stand comprising a standard, a plurality of cradles movable up and down said standard, arms movable in said cradles in directions transverse to said standard and means for coupling said cradles so as to move simultaneously.

1,337,905. TRACTOR UNIT. GEORGE S. GROVES, Mount Ida, Va. Filed Feb. 15, 1919. Serial No. 277,261. 2 Claims. (Cl. 180—9.)



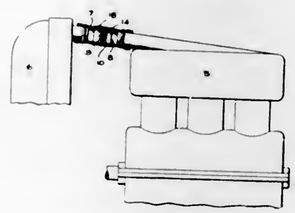
2. In a device of the type described the combination with an automobile of a tractor unit for attachment thereto comprising wheels attachable to the drive wheels of the automobile, reduction gearing connecting the wheels of the tractor unit and said drive wheels, a rearwardly extending frame secured to the frame and rear construction of the automobile, idler wheels mounted on said frame, and endless traction belts running between the wheels of said tractor unit and said idler wheels.

1,337,906. TRANSMISSION-GEARING. JAMES GUYER and GEORGE MORALES, New York, N. Y. Filed July 18, 1919. Serial No. 311,826. 3 Claims. (Cl. 74—34.)



1. In an apparatus of the class described, a driving shaft, a driven shaft, gears on said shafts, a number of housings rotatably mounted on the driving shaft, a jack shaft carried by each housing, gears on said jack shafts, one gear on each jack shaft meshing with the gear on the driving shaft, a number of hollow shafts rotatably mounted on the driving shaft and having portions located within the housings, a gear on each hollow shaft meshing with the remaining gear on the jack shaft, a gear at the outer end of each hollow shaft meshing with the gear on the driven shaft, ratchet means connecting the gears on the driven shaft to said shaft and means for resisting the movement of the housings.

1,337,907. THERMOSTATIC-VALVE UNIT. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Mar. 4, 1919. Serial No. 280,624. 9 Claims. (Cl. 236—34.)

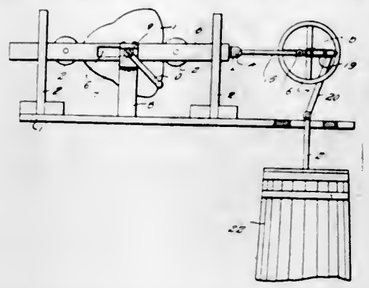


1. The combination with an engine having a jacket, a radiator and a hose connection between them, of a thermostatic valve structure inserted in said hose connection comprising a short length of pipe which forms a valve casing, a valve member arranged therein, and a thermostatic member connected to the valve member for opening and closing it.

1,337,908. POWER-TRANSMISSION MECHANISM. SAMUEL S. HEMBREE and AMBROSE L. JOHNSON, Farris, Okla. Filed Apr. 5, 1919. Serial No. 287,760. 1 Claim. (Cl. 74—14.)

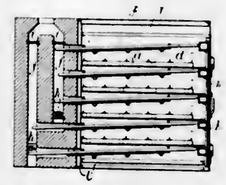
A mechanism of the character described, consisting of a base, a pair of apertured upright standards thereon, twin spaced apart guide wheels in the aperture of each of said standards, a horizontal member engaging the said guide wheels at spaced points and guided between said rollers and having a longitudinal slot, a pair of rollers

journaled in the ends of the slot of said horizontal member, a three point rotating cam mounted upon the base, said cam extending vertically into the slot of said member and having its periphery in constant engagement with the pair of rollers of the said member centrally between the guide uprights, a link connected to the horizontal



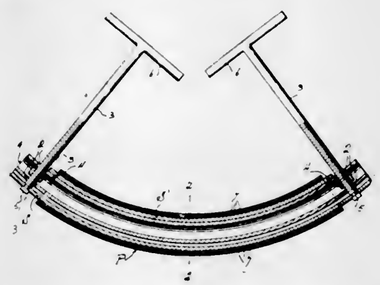
member, a wheel to which the other end of said link is connected, a shaft for the wheel having a crank, and a rod having one end connected to said crank and the other end connected to the element to be reciprocated, whereby a reciprocating movement is transmitted from a rotary movement in the plane of the horizontal member or at an angle thereto.

1,337,909. BAKER'S OVEN. GEORGE HENRY HODGE and JOSEPH CHARLTON ROBINSON, London, England. Filed Nov. 28, 1919. Serial No. 341,264. 5 Claims. (Cl. 107—63.)



5. An oven having a plurality of separate deck compartments, a closure for the whole, a separate flap door for each compartment, a coöperating trolley with a plurality of decks, said decks being adapted to accommodate wheeled baking soles, and projecting horns for lifting the flap doors on the oven.

1,337,910. EXPANSIBLE CORE. CHRISTIAN HOLM, Bowman, N. D. Filed Nov. 10, 1919. Serial No. 336,903. 6 Claims. (Cl. 18—45.)



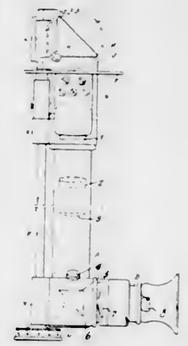
5. In combination with an expansible core of the class described, a yieldable padding surrounding said core.

1,337,911. TIRE-CARRIER. THOMAS A. HOOVER, Fresno, Calif. Filed Oct. 30, 1918, Serial No. 260,233. Renewed Feb. 24, 1920. Serial No. 360,761. 14 Claims. (Cl. 224—29.)



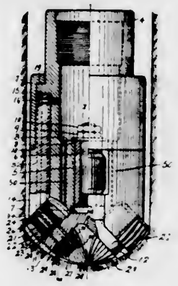
1. In a tire carrier, a pair of tire engaging elements, a leaf spring element adjustably mounted between said pair of elements, and tire engaging member movably connected to the spring element so as to be tensioned thereby.

1,337,912. SEXTANT. HENRY ALEXANDER HUGHES, London, and THOMAS YEOMANS BAKER, Slough, England. Filed Jan. 6, 1919. Serial No. 269,812. 6 Claims. (Cl. 88—22.)



1. A sextant comprising a telescope of large aperture with a vertical optical axis, the eyepiece of which has a right angle bend and the object glass of which is arranged at the top, a pair of oppositely arranged prisms of 45° angle mounted on said telescope above the object glass, and an index-mirror rotatably mounted on said telescope above said prisms.

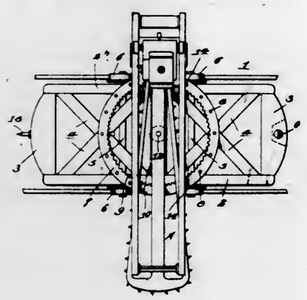
1,337,913. DRILL-BIT. GRANVILLE A. HUMASON, Houston, Tex., assignor to Humason Roller Bit Company. Filed Jan. 24, 1919. Serial No. 272,889. 10 Claims. (Cl. 255—71.)



1. A device of the character described, including a head, detachable plates carried by opposite sides of the

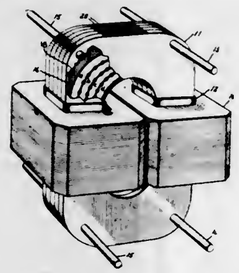
head, bearing pins converging from the lower ends of said plates toward the axial center of said head, detachable diverging bearing plates carried by the head and spaced from said lower ends, and through which said pins extend, and rotatable cutters mounted on said pins on each side of the respective bearing plates.

1,337,914. TRUCK. WILLIAM HYDEN, Kingston, W. Va. Filed Aug. 19, 1919. Serial No. 318,454. 1 Claim. (Cl. 105—28.)



A truck of the class described comprising side and end pieces, a centrally located cross piece having an opening therein for receiving the king bolt, wheels carried by the truck, a ring shaped member centrally arranged on the truck and having a rack formed on its inner periphery, a cutting machine carried by the truck and rotatably held thereon by the king bolt, a gear carried by the machine and engaging the rack and means for locking the cutting machine to spaced parts of the ring member so that each cut made by the machine will connect with the previous cut.

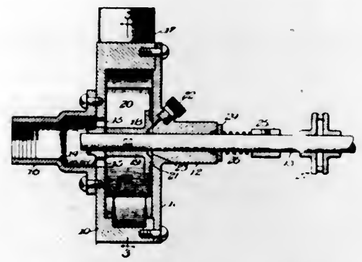
1,337,915. HIGH-VOLTAGE TRANSFORMER. SVEND E. JOHANNESEN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 15, 1918. Serial No. 244,836. 12 Claims. (Cl. 175—356.)



6. In a transformer, the combination with a shell type core, of a coil structure composed of a plurality of units comprising windings and an insulating structure, supporting bolts passing through said coil structure, and means for securing said coil units along said bolts in predetermined spaced relation.

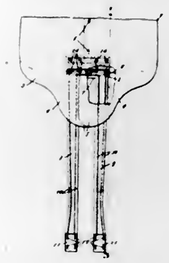
1,337,916. CENTRIFUGAL PUMP. HANS JULINSEN, Chicago, Ill. Filed Mar. 6, 1917. Serial No. 152,620. 3 Claim. (Cl. 103—43.)

A centrifugal pump comprising a housing having a hollow cylindrical interior with its side wall rectangularly disposed to its end wall, a bearing provided in said end wall, inlet openings surrounding said bearing, a cover plate for said housing, a bearing provided in said cover plate, an outlet port in said side wall, and said side wall flaring outwardly toward said port, a shaft mounted in said bearings and projecting outwardly from said first named bearing, a hub secured to the shaft within the housing, blades secured to said hub and projecting radially



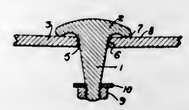
therefrom, an annular portion surrounding and projecting from the shaft and adapted to bear against said cover plate to maintain the blades out of contact with the cover plate, an annular recess surrounding said shaft within said annular portion and a spring adapted to hold said annular portion in contact with the cover plate.

1,337,917. SHIRT. NATHAN KAPLAN, Covington, Ga. Filed Nov. 4, 1918. Serial No. 261,062. 1 Claim. (Cl. 2—41.)



A shirt comprising a tail and a front; a U-shaped strip including an intermediate portion and arms at the ends of the intermediate portion, the arms and the intermediate portion being integrally formed, the intermediate portion being secured to the tail, the longitudinal edges of the arms being folded inwardly and being secured to form reinforcements, the free ends of the arms being folded backwardly on the reinforcements and being secured thereto; and means for connecting the free ends of the arms detachably with the front of the shirt.

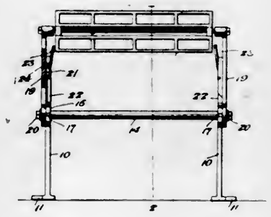
1,337,918. SELF-SEATING DOOR-HANDLE. GEORGE W. KENNINGTON, Brooklyn, N. Y. Filed Oct. 17, 1919. Serial No. 331,400. 3 Claims. (Cl. 16—10.)



3. In a device of the character described, the combination of a door occupying a substantially horizontal position having an opening with tapered sides therein, and a self-seating door handle comprising a handle portion adapted to cover the upper part of said opening, a stem

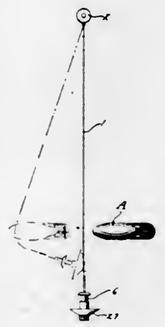
extending downwardly from said handle, and having a tapered stem extending downwardly from said end seated in said opening forming a substantially water tight joint, and a removable means carried by said stem to permit a limited movement of the stem to enable the fingers to be inserted under the handle and to prevent the withdrawal of said stem through said opening.

1,337,919. ADJUSTABLE FOOTREST. WALTER E. KINGSFORD, Weatherford, Tex. Filed Nov. 18, 1919. Serial No. 338,899. 1 Claim. (Cl. 155—169.)



A device of the class described comprising spaced uprights, means for connecting said uprights, the upper ends of said uprights being notched, a pair of arms pivotally mounted upon said uprights, a foot rest connecting said arms and supported thereby, each of said arms being channeled, and a spring pressed latch element pivoted within said channel and arranged to engage the said notches whereby the foot rest is held fixed relative to the uprights in any adjusted position.

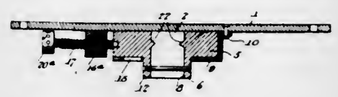
1,337,920. TORPEDO CAPTURING AND DESTROYING NET. ERNEST KOHLER, Alameda, Calif. Filed Oct. 17, 1919. Serial No. 331,402. 8 Claims. (Cl. 114—240.)



1. A marine net comprising a net work, adapted to be wound upon a drum with one end attached thereto, a plurality of projectiles at spaced intervals along the free end of the net, and means for projecting said projectiles to cast the net and vertically submerge the same.

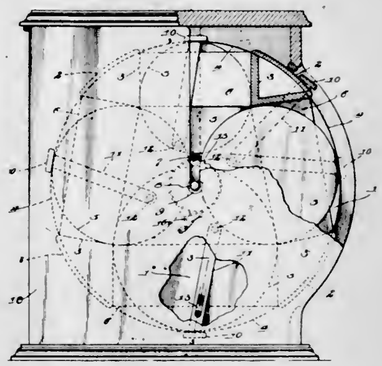
1,337,921. ADJUSTABLE GUIDE-CLAMP. HOMER MAURICE LAMB, West Frankfort, Ill. Filed July 20, 1918. Serial No. 245,949. 2 Claims. (Cl. 74—84.)

1. In combination with a guide plate and a guide extending thereacross, a fixed clamping member secured on the guide plate and bearing against one side of the guide, an adjustable clamping member mounted for movement on the guide plate and bearing against the opposite side of



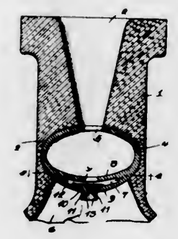
the guide, and means to adjust and hold said adjustable clamping member, the said clamping members having arms arranged at right angles thereto and positioned in recesses in the sides of the guide.

1,337,922. PHONOGRAPHIC-RECORD CABINET. CHARLES E. LANGLEY, Keokuk, Iowa. Filed July 12, 1919. Serial No. 310,312. 3 Claims. (Cl. 211—16.)



1. A rotatable disk holding magazine of substantially cylindrical formation supported by end journals, said magazine embodying separators between which the disks are insertible, longitudinal partitions to support the edges of the disks, and displaceable disk retaining means carried by said magazine to permit the disks to be removed and replaced, the last named means comprising a disk retaining bar, pivoted side arms therefor supporting the said bar on the magazine so as to allow the bar to swing across the outer edges of the disks and also clear of the same.

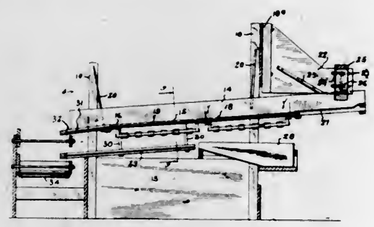
1,337,923. NON-REFILLABLE BOTTLE. ARTHUR LAUBE, New Bedford, Mass. Filed Nov. 11, 1919. Serial No. 337,316. 3 Claims. (Cl. 215—65.)



1. The combination of a bottle provided with a substantially conical shaped opening, a pocket situated below

and adapted to register with said opening, a casing snugly fitted within said pocket, said casing provided with an aperture at its top adapted to register with said conical shaped opening, said casing being of substantially elliptical shape in cross section, an annular groove provided in the bottom of said casing and means provided within said groove for preventing the passage of liquid into said bottle and at the same time allowing liquid to be poured out of said bottle.

1,337,924. FRUIT-GRADER. ERNEST STEPHEN LAUTNER, Solon township, Leelanau county, Mich. Filed Feb. 24, 1919. Serial No. 278,725. 5 Claims. (Cl. 130—32.)



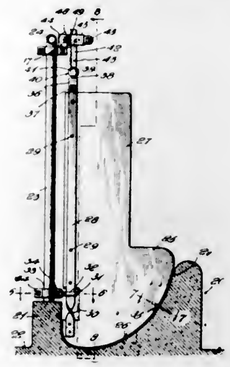
1. A grader for fruits including a grader frame movably mounted and having openings therein for the escape of fruit of a given size, and means beneath the openings and actuated toward and from the latter by the movements of the grader frame to dislodge fruit from said openings.

1,337,925. ANIMAL-STANCHION. JOHN MINOR BOTTS LEWIS, Lynchburg, Va., assignor to Cowmatic Corporation, Lynchburg, Va., a Corporation of Virginia. Filed Dec. 9, 1918. Serial No. 265,885. 5 Claims. (Cl. 119—150.)



1. In an animal stanchion of the character described, a pair of spaced arms pivotally connected near their lower ends so that the arms are adapted to be swung toward and away from each other, longitudinally curved guide bars secured to the upper ends of the arms and disposed in concentric relation to the pivot at the lower ends of the arms, said guide bars extending transversely of the stanchion in superposed contacting relation, one guide bar being provided with a longitudinal groove having a stop shoulder and the other guide bar having a pin to operate within the groove, a supporting sleeve receiving the guide bars, means connecting the arms so that they move together in opposite directions, means to lock the arms in the closed position, and anchor means connected with the lower ends of the arms.

1,337,926. MANGER PARTITION. JOHN MINOR BOTTS LEWIS, Lynchburg, Va., assignor to Cowmatic Corporation, Lynchburg, Va., a Corporation of Virginia. Filed Mar. 29, 1919. Serial No. 285,999. 9 Claims. (Cl. 119—27.)



1. In apparatus of the character described, a manger partition, and means connected to said partition to raise the manger partition for a substantial distance without turning the same upon its vertical axis and subsequently to turn the partition upon its vertical axis.

1,337,927. ANIMAL-STANCHION. JOHN MINOR BOTTS LEWIS, Lynchburg, Va., assignor to Cowmatic Corporation, Lynchburg, Va., a Corporation of Virginia. Filed July 16, 1919. Serial No. 311,290. 9 Claims. (Cl. 119—149.)



1. In an animal stanchion, a pair of oppositely bowed arms, a bifurcated member secured to the lower end of said arms, a complementary member secured to the lower end of the other of said arms and provided with a cut-out portion, a hook formed integrally with said complementary member and having its end disposed within the extremities of the ends of said bifurcated member and spaced from the inner face of said cut-out portion, whereby a securing member may be placed upon said hook when said members are unassembled, said members when assembled forming a pivotal connection for said arms, means for releasably securing the upper ends of said arms together, and means for supporting said stanchion.

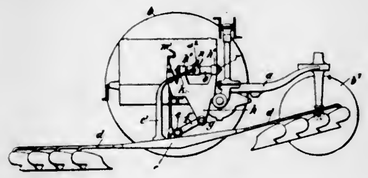
1,337,928. TIME-CONTROLLED DEAD-LOCKING DEVICE. ROLLIN C. LEWIS, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Dec. 16, 1919. Serial No. 345,333. 5 Claims. (Cl. 70—26.)

1. In a lock, the combination of a casing, a bolt, key mechanism for actuating same, time controlled mechanism for deadlocking the bolt against said key mechanism, and means for disengaging the time controlled deadlocking means from the bolt whereby the latter may then be actu-



ated by its key mechanism, the said disengaging means being secured against the outer face of the door by screw bolts carried by a plate adjacent the front of the lock casing and engaging the rear face of said disengaging means.

1,337,929. MOTOR-PLOW. MAURICE LOUIS LETROTEUR, Paris, France. Filed Jan. 14, 1919. Serial No. 271,144. 5 Claims. (Cl. 97—50.)



1. In a plow, a main frame, a double swing plow suspended from said frame, and means carried by said swing plows for permitting movement of said plows relative to said frame.

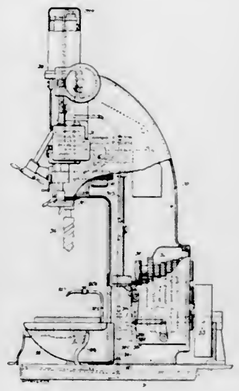
1,337,930. TIRE-TUBE-MAKING APPARATUS. DEMPSEY LOWE, Akron, Ohio. Filed Dec. 10, 1918. Serial No. 266,168. 3 Claims. (Cl. 18—35.)



1. In tire tube making apparatus, a curing mold embodying oppositely arranged separable mold sections having tube receiving channels in opposed and mating relation to each other, and a stock holding and shaping mandrel removably mounted therein and carrying detachable end skiving members contacting with the walls of the mold.

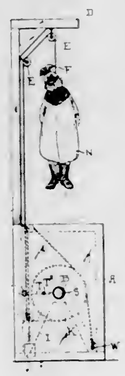
1,337,931. MEANS FOR LUBRICATING MACHINE-TOOLS. WILLIAM F. MCCARTY, Defiance, Ohio, assignor to Defiance Machine Works, Defiance, Ohio, a Corporation of Ohio. Original application filed Feb. 15, 1918, Serial No. 217,358. Divided and this application filed Jan. 24, 1919. Serial No. 272,961. 6 Claims. (Cl. 184—6.)

6. In a means for lubricating machine tools, the combination of a closed casing provided with an oil well adapted to contain a liquid lubricant, a vertical drill spindle having its upper part mounted in the casing, driving and feeding mechanisms located within the said casing for rotating the said drill spindle for moving the same up and down, the said mechanisms being located below the top of the said drill spindle, a speed changing mechanism arranged within the casing and located below the said driving and feeding mechanisms and above the said oil well, a pump driven simultaneously with the said mechanisms, the pump having



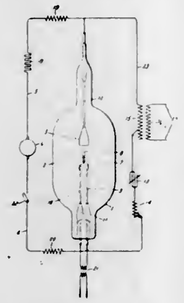
a suction pipe extending into the said oil well and the said pump having a discharge pipe terminating at its upper end in a nozzle located above the top of the said spindle to discharge the lubricant thereon whether the drill spindle is in its uppermost, lowermost or intermediate position, the lubricant flowing from the said drill spindle to the said mechanisms and from the latter to the said oil well.

1,337,932. FIGURED TOY. CURTIS D. MCCLELLAN and JOHN FLYNN, Washington, Iowa. Filed June 25, 1919. Serial No. 306,686. 3 Claims. (Cl. 46—59.)



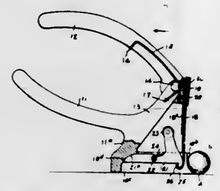
1. A figured toy, comprising a frame, a board representing a target and having a bull's eye opening, a gallows rising adjacent to the board, pulleys thereon, a rope passing about said pulleys, a toy secured to said rope, a drum mounted in suitable bearings in said frame and about which said rope winds, a weight secured to the rope, a gear wheel fixed to the drum, a member mounted in the rear of said board, said member adapted to engage the teeth of the gear wheel, and means for releasing the same from the gear to permit the weight to fall and the toy to be raised and held suspended, and means for rewinding the rope to which the figure is fastened.

1,337,933. ELECTRIC OSCILLATOR. GEORGE M. J. MACKAY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 27, 1916. Serial No. 74,594. 3 Claims. (Cl. 250—36.)



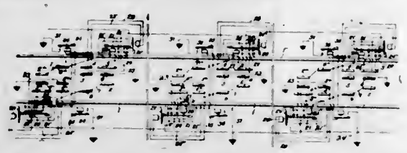
1. An apparatus adapted to generate high frequency oscillations comprising the combination of a resonant circuit and an electric discharge device connected thereto, said device consisting of a sealed envelop containing a gaseous filling at a substantial pressure, a substantially non-consuming cathode adapted to operate at incandescence, and an anode, the gap intervening between said electrodes being substantially constant whereby the oscillations produced are regular and largely free from harmonics.

1,337,934. MARBLE-SHOOTER. ARTHUR EDWARD MADISON, Redlands, Calif. Filed Jan. 14, 1919. Serial No. 271,145. 7 Claims. (Cl. 124—1.)



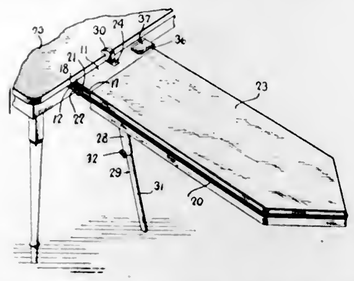
1. A shooter of the class described, including a stationary seat for the article to be projected, a spring strip extending at one end adjacent to said seat and adapted to project the article, a trigger engageable by the said end of the spring to hold the latter adjacent to said projectile seat, and means for bending said spring to stress the same when engaging the trigger, said trigger being movable to release the stressed spring.

1,337,935. RAILWAY SIGNAL SYSTEM. HORACE MARCOTTA, Scranton, Pa. Filed Dec. 2, 1916. Serial No. 134,665. 10 Claims. (Cl. 246—33.)



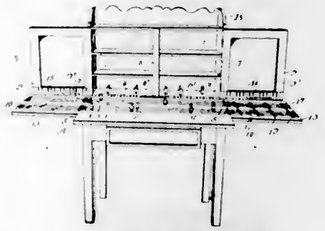
3. In an automatic signal, the combination with a railway track divided into sections, a circuit closer for each section, two terminals for each circuit closer, one for closing it and a plurality of circuit closers in advance of a car and the other for moving it to open the circuit closer with which it is connected, and a terminal connected with each circuit closer and adapted to deliver signals to an approaching train, of a car having a source of electrical energy, and a contact for successively engaging said two terminals.

1,337,936. IRONING-BOARD. PERRY D. MARTINDALE, Pontiac, Mich. Filed Nov. 17, 1917. Serial No. 202,585. 1 Claim. (Cl. 68—10.)



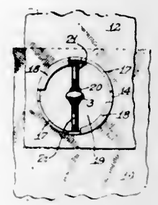
The herein described construction of ironing boards including a substantially rectangular wooden frame having one of its ends beveled to the sides thereof, a wooden member transversely connecting the sides at the opposite end of the board, and a centrally arranged brace for the frame, a metallic facing provided with flanges on its sides and one end, fitting over the sides and beveled ends of the frame, both the sides and the beveled ends of the flange and frame having a continuous longitudinal groove therethrough, eyes in the groove adjacent to the inner end of the board, and a spring member received in the groove having elements on the ends thereof engaging with the eyes, and said spring member designed to hold a covering cloth on the board.

1,337,937. DEVICE FOR TEACHING MUSIC. ANNIE L. MAXWELL, Waco, Tex. Filed Sept. 15, 1916. Serial No. 120,375. 4 Claims. (Cl. 84—85.)



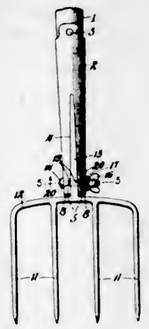
2. In a device for teaching music, a table having its top inscribed with staffs and the representation of a key board, and a plurality of puppets of contrasting sizes, colors and shapes, each indicating the value of a note and the location thereof on said staff and bearing indicia identifying the corresponding key on said key board.

1,337,938. FASTENER. CYRUS B. MERRIAM, Detroit, Mich. Filed Jan. 18, 1919. Serial No. 271,784. 1 Claim. (Cl. 24—211.)



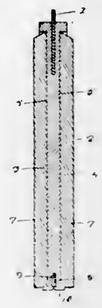
In a fastener, the combination of a stud having a head, a back member, a holding member connected to said back member adapted to retain material therebetween, overhanging stop flanges carried by said holding member, a rotatable member on said holding member and retained thereon by said flanges, and finger pieces pressed out from said rotatable member and adapted to engage said stop flanges and define the position of said rotatable member relative to said holding member, said rotatable member having an opening shaped to receive said stud and permit of its marginal edges engaging behind the head of said stud when said rotatable member is adjusted for such purpose.

1,337,939. COMBINED FORK, RAKE, AND KNIFE. JEREMIAH MILLER, Ottawa, W. Va. Filed Oct. 14, 1919. Serial No. 330,532. 1 Claim. (Cl. 294—51.)



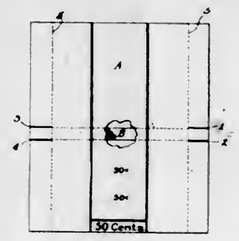
A combination garden tool comprising a ferrule, a handle fitting in the ferrule, spaced apertured ears projecting from the ferrule at the end opposite the handle, said ferrule having a longitudinally tapered slot in one wall between the ears, and extending inwardly therefrom the opposite wall being imperforate, said imperforate wall terminating short of the outer end of the ferrule to form a shoulder, a pivoted rake and fork member mounted between the ears and adapted to abut in one position against said shoulder, said member having a tapered shank provided with a bolt aperture registering with the apertures in the ears and an enlarged rounded portion partially surrounding the said aperture, ribs formed on each side of said rounded portion and radiating from the aperture therein, the said ears having radially disposed recesses adapted to receive said ribs to hold the pivoted rake and fork member in adjusted position, and a pivot bolt passing through the alined apertures and having a nut for clamping the same.

1,337,940. FILING-TOOL. CHARLES C. MOREY, Great Falls, Mont. Filed July 6, 1918. Serial No. 243,539. 1 Claim. (Cl. 29—80.)



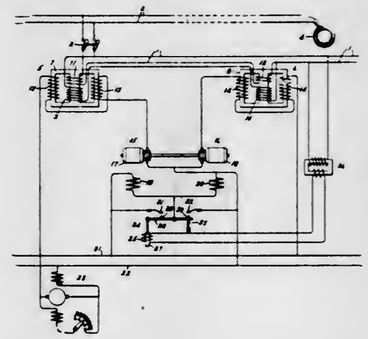
A filing tool comprising a handle having in its sides longitudinal recesses which extend to and are open at one end of the handle and are provided with undercut side walls and square inner end walls, files of greater thickness than the depth of said recesses, removably arranged in the recesses and having beveled inner ends and also having square outer ends, arranged flush with the end of the handle, and a screw having a shank socketed in said end of the handle and also having a head bearing against said end and the outer square ends of the files.

1,337,941. COIN-WRAPPER. WILLIAM JOHN MORGAN, Peckville, Pa., assignor of one-half to Louis Hubshman, Peckville, Pa. Filed Aug. 1, 1919. Serial No. 314,801. 5 Claims. (Cl. 133—10.)



1. A wrapping sheet comprising a tearing strip merging into a free tongue a distance within the margin of the sheet.

1,337,942. REGULATING SYSTEM FOR ALTERNATING-CURRENT CIRCUITS. EDWIN J. MURPHY and LOUIS W. THOMPSON, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed July 10, 1918. Serial No. 244,164. 11 Claims. (Cl. 171—119.)

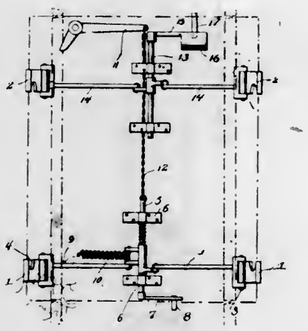


1. The combination with an alternating current circuit, of means for regulating an electrical condition of said circuit comprising a transformer connected to modify said electrical condition, and means for developing in said transformer different amounts of flux having a lower frequency than the frequency of said source, said last mentioned means comprising a vibratory device responsive to an electrical condition of said circuit, and means for preventing abrupt variations in said flux due to the action of said vibratory device.

1,337,943. SAFETY DEVICE FOR MINES. JAMES A. NOLAN, Bowerston, Ohio, assignor to The Mining Safety Device Company, Bowerston, Ohio, a Corporation of Ohio. Filed May 2, 1918. Serial No. 232,096. 3 Claims. (Cl. 187—97.)

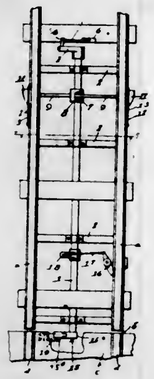
1. In combination, a cage, front and back pairs of stops carried thereby, independent shafts rockably

mounted on said cage, operating connections between said shafts and the respective pairs of stops, means for normally holding said shafts in rocked adjustment so as to hold the stops in operative position, means for rocking the shafts so as to move the stops into inoperative position upon the cage reaching the limit of its downward



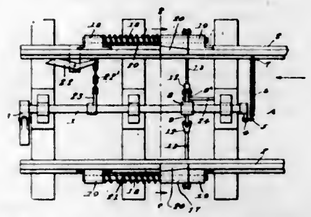
travel, and means actuated by a car entering the cage for releasing the operating shaft for the front stops so as to permit return of the same to operative position, the shaft for the rear stops being released upon raising of the cage so as to permit return of the rear stops to operative position.

1,337,944. MINE-CAR CAGER. JAMES A. NOLAN, Bowerston, Ohio. Filed Nov. 3, 1919. Serial No. 335,344. 10 Claims. (Cl. 104—252.



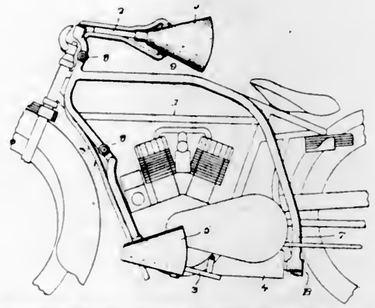
1. In caging means, a rockable shaft, means adapted to be actuated by a movable member for rocking said shaft a predetermined extent in one direction, car actuated means for rocking the shaft a predetermined extent in the other direction, means for completing the rocking movement of the shaft in either direction and for holding said shaft in rocked adjustment, a pair of car stop members, and connections between said members and the shaft for moving the stops into and out of operative position in accordance with rocking of the shaft.

1,337,945. MINE-CAR CAGER. JAMES A. NOLAN, Bowerston, Ohio. Filed Nov. 3, 1919. Serial No. 335,345. 19 Claims. (Cl. 104—252.)



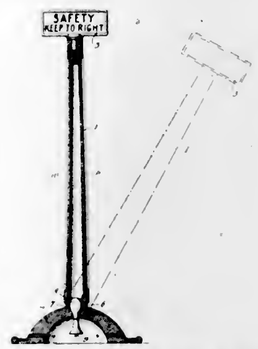
1. In caging means, a rockably mounted operating shaft, slidably mounted stops, operating connections between said stops and the shaft adapted to permit free sliding of the stops in either direction, and means for cushioning movement of the stops.

1,337,946. MOTORCYCLE. PAUL J. O'NEILL, Detroit, Mich. Filed Feb. 1, 1919. Serial No. 274,458. 1 Claim. (Cl. 237—12.3.)



The combination with a motorcycle of funnel-shaped casings attached to the frame thereof and surrounding the hand grips and the foot rests, said casings having double walls, inlet and outlet pipes communicating with the space between the double walls of the casings, valves in the inlet pipes, a pipe connecting the inlet pipes with the outlet of the muffler, said pipe having an opening therein and a spring controlled valve controlling said opening.

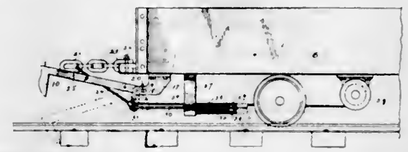
1,337,947. SIGNAL-POST. WILLIAM O'TOOLE, Lorain, Ohio. Filed July 23, 1919. Serial No. 312,657. 6 Claims. (Cl. 40—145.)



1. A signal post, comprising a base, an upright member on the base having elastic connection with the base,

and an alarm device located at the point of connection between the upright member and the base and adapted to be sounded by the movement of the upright member relative to the base.

1,337,948. AUTOMATIC CHECKING AND STOPPING APPARATUS FOR CARS. FRANK LESLIE PARR, Huntington, W. Va. Filed June 23, 1919. Serial No. 306,148. 10 Claims. (Cl. 188—127.)

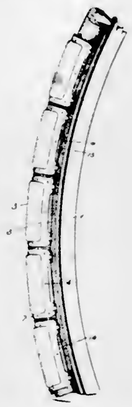


4. In a device of the character described the combination with a car, of a track engaging element mounted upon and bodily movable with the car, breakable means for connecting the track engaging element to the car adapted to yield under strain exceeding a predetermined degree, braking elements upon the car and connections between said braking elements and the track engaging element operable when the latter separates from the car.

1,337,949. ELECTRIC FUSE. FRED J. PETROVICS, Chicago, Ill. Filed Nov. 18, 1918. Serial No. 263,064. 5 Claims. (Cl. 200—132.)

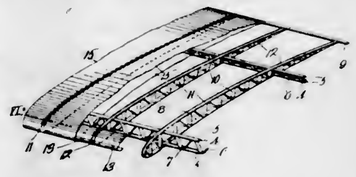
1. A refillable fuse case comprising an insulation casing, a metallic cap mounted on one end of said casing, a metallic cap threaded onto the other end of said casing, and an insulation block positioned within said casing and extending substantially from one end to the other and adapted to hold the respective ends of a fuse firmly against the said caps when the threaded cap is screwed sufficiently onto said cylinder.

1,337,950. TIRE-PROTECTOR. LOUIS F. PETEY, Rhinelander, Wis. Filed June 13, 1919. Serial No. 303,960. 2 Claims. (Cl. 152—16.)



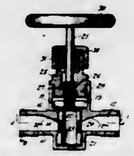
1. A pneumatic tire protector comprising a plurality of sections, each section comprising a metallic base plate arc-shaped in cross section and circumferentially arc-shaped, a flexible tread member having substantially the characteristics of rubber positioned on the base plate, said tread member being formed with a projecting flange at each end and each side, a frame formed with an opening through which said tread member projects, said frame fitting against said flanges, a plurality of securing rivets extending through said base plate, said frame and the flanges of said tread for clamping all the parts together, and means on the frame for receiving retaining members for holding the frame and associate parts on the tire.

1,337,951. AEROPLANE-WING CONSTRUCTION. FRANCIS J. PLYM, Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich., a Corporation of Michigan. Filed Oct. 11, 1918. Serial No. 257,781. 3 Claims. (Cl. 244—31.)



2. In an aeroplane, a wing comprising intersecting beams and ribs, a trailing edge strip connecting the rear ends of said ribs, nose plates bridging the space between said ribs and provided with flanges adjacent the ribs, strips fitting around the ribs and provided with side channels receiving the flanges of the nose plates, cover sections between said strips and around said nose plates and fitting in the channels of the strips, and means securing the side edges of the cover sections within said channels.

1,337,952. MIXING VALVE OR FAUCET. JONAS LUDVIG THEODORE POPP, Niagara Falls, N. Y. Filed Dec. 7, 1918. Serial No. 265,714. 4 Claims. (Cl. 277—18.)

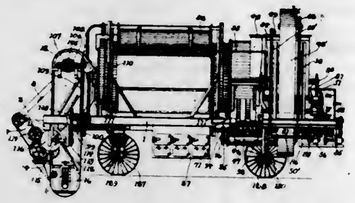


1. A mixing valve or faucet, comprising a valve body having an outlet and inlets, of which inlets one is adapted to be connected with a cold water supply and the other with a hot water supply, and a laterally perforated hollow valve plug mounted in the said valve body to turn, and to slide bodily lengthwise of its axis, the said valve plug having a valve disk and the valve body a coöperating valve seat intermediate the inlet and outlet, the valve plug in one position being closed to the outlet and to both inlets, the said valve plug in another position connecting both inlets with the outlet, the said valve plug in another position connecting but one of the inlets with the outlet, and the valve plug in another position connecting the other inlet with the outlet, one wall of the said inlets being inclined to the valve seat at their discharge ends, whereby said inlets constitute a stop when all ports are blanked and also concentrating means for incoming hot and cold water in the mixing space of the valve body.

1,337,953. MACHINE FOR TREATING EARTHY MATERIAL. MICHAEL A. POPKESS, Kansas City, Mo., assignor to Bituminized Road Company, a Corporation of Arizona. Filed Mar. 16, 1917. Serial No. 155,282. 15 Claims. (Cl. 94—41.)

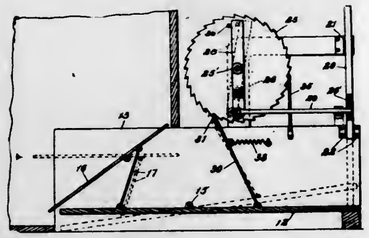
6. In a machine of the class described, the combination with a rotary drum, a screen cylinder carried by and

within the same, and an independently rotatable pulverizer within said cylinder, of means on the front end of the pulverizer to force gases through said drum and cylin-



der, and means carried by the rear end of said pulverizer to arrest the fine dust and separate it from the said gases.

1,337,954. DOOR-CONTROLLING DEVICE. CHARLES W. POTTS, Kellerton, Iowa. Filed Sept. 29, 1919. Serial No. 327,166. 1 Claim. (Cl. 119—22.)



In a device of the class described, a door, means for retaining the door in an open position, and mechanism including a tripping device, an intermittently operated rotary device for releasing the door retaining means, and a swinging element mounted on the axis of the rotary device and thrown to operative position by a predetermined movement of said rotary device, the swinging element having connection with the door retaining means.

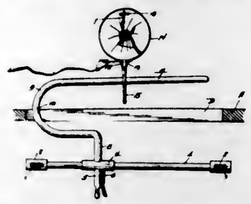
1,337,955. FOOD-CUTTER. EDWARD E. PUNZELT, Philadelphia, Pa., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1919. Serial No. 315,692. 3 Claims. (Cl. 17—20.)



2. A cutter for food cutting machines consisting of a hub having an annular face and a series of radial blades extending beyond the face of the hub and disconnected at their outer ends so as to increase the throat, each blade having a narrow cutting face and beveled slightly at the front, while the rear of each blade is beveled at a less degree so as to form a clearance space between each blade to allow for the free expansion of the food after it has been cut.

1,337,956. MAIL-TRANSFERRING APPARATUS. EDWARD ALLEN RASHELL, Lamasco, Tex., assignor of one-half to W. L. Smart, Lamasco, Tex. Filed Mar. 20, 1918. Serial No. 223,582. 1 Claim. (Cl. 258—26.)

An apparatus of the character described adapted for use on a railway car, comprising a horizontal support mounted within the car, a sleeve member slidably mounted on the support means mounted on the sleeve member to normally lock the said sleeve against rotary movement on the horizontal support and adapted to be released whereby the said sleeve may be turned on the support, the said horizontal support being in such proximity to the doorway of the said car as to permit the approximate closing of door, and a hook member carried by the said sleeve and



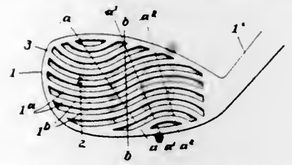
comprising a lateral extension having the bight portion of the said hook connected thereto, the bill of the hook being less than the width of the car door way, whereby the said hook may be projected through the said doorway when the said sleeve is swung on the horizontal support, the said releasable means being adapted to maintain the sleeve in position against rotation whereby the said end of the hook may be held in a horizontal position on the exterior of the car.

1,337,957. FINGER-GUARD. WILLIAM R. RASMUSSEN, Los Angeles, Calif. Filed Oct. 14, 1918. Serial No. 258,085. 2 Claims. (Cl. 2—104.)



1. A finger guard comprising a finger receiving socket and an upwardly extending flared apron formed on one end of the socket, the flared free end of the apron having a plurality of inwardly extending knife receiving V-shaped notches formed therein to prevent the slipping of a knife off of said flared end.

1,337,958. GOLF-CLUB. WILLIAM F. REACH, Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 23, 1919. Serial No. 319,363. 1 Claim. (Cl. 46—4.)

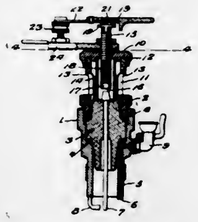


A golf club head having a striking face provided with corrugations extending on a compound or ogee curve.

1,337,959. SPARK-PLUG. WILLIAM C. RENTZ, Atlanta, Ga. Filed July 21, 1919. Serial No. 312,250. 2 Claims. (Cl. 123—169.)

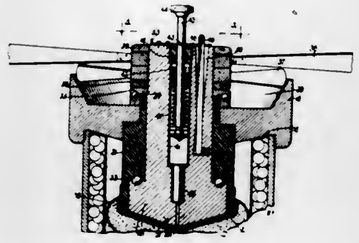
1. In an accessory for internal combustion engines, the combination of a spark plug including an electrode made up of an inner section, an outer tubular section constituting a switch member and the inner end of which is spaced from the inner section and the outer end of which is exposed and provided with open slots at angles to each other and of different depths, and an endwise movable contact rod sheathed in the tubular section and having

an enlargement at its inner end backed by a spring inclosed in the tubular section and also having a finger portion at its outer end capable of being placed in either of the slots



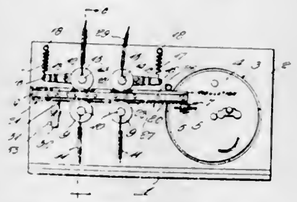
of the tubular section, and a complementary switch member carried by the plug and movable into and out of direct engagement with the outer exposed end of said tubular member of the electrode.

1,337,960. AERO SUBMARINE TORPEDO. EDWARD AUGUSTUS RIDER, Westbury, N. Y., assignor of one-half to Lillian R. Mosher, Westbury, Long Island, N. Y. Filed Aug. 21, 1917. Serial No. 187,342. 9 Claims. (Cl. 102—36.)



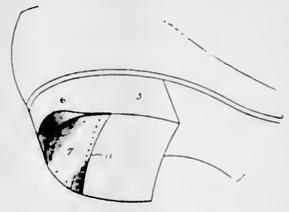
1. The herein described torpedo comprising a body having a cavity, an explosive in the cavity, firing devices to ignite the explosive, said firing devices including a member adapted to rotate, means connected to the member to cause rotation thereof in one direction during a portion of the travel of the torpedo, and other means connected to the member to cause rotation thereof in the opposite direction during another portion of the travel of the torpedo.

1,337,961. ELECTRIC SWITCH. ARLINGTON EARL RISHEL, Seattle, Wash. Filed Nov. 27, 1918. Serial No. 264,399. 2 Claims. (Cl. 200—161.)



1. In an electric switch, a support, two pairs of peripherally grooved wheels of conducting material having their axes mounted on said support, a switch-bar comprising two insulating strips, and a series of conducting plates and insulating plates arranged alternately and in alinement between said strips and secured thereto, two opposite edges of said series of plates projecting laterally beyond the corresponding edges of said strips, said bar being seated between said pairs of wheels and having said opposite edges of said series extending into the peripheral grooves of the wheels, the wheels and the alternate plates being arranged and spaced in such mutual relation that when two opposite wheels engage with one of said plates, the other two opposite wheels engage with another plate of similar conductive character, said bar being movable longitudinally to change the wheels from their contact with the conducting plates to their contact with the insulating plates and vice versa, each of said wheels being electrically connectible with a conducting element of an electric circuit.

1,337,962. RESILIENT HEEL-PLATE FOR SHOES. HUGH G. ROBINSON, Philadelphia, Pa. Filed Nov. 1, 1919. Serial No. 334,940. 3 Claims. (Cl. 36—59.)



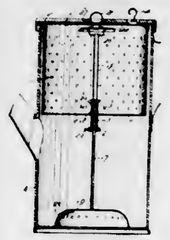
1. A resilient repair plate for boot or shoe heels composed of a body of rubber and fiber mixed together, and a sheet of nail-holding material composed of ground leather and rubber embedded therein adjacent to and approximately coextensive with the tread face therein to retain the heads of the attaching nails.

1,337,963. CLIP. ALFRED ROLFE, Brockville, Ontario, Canada. Filed Jan. 21, 1919. Serial No. 272,275. 2 Claims. (Cl. 24—10.)



1. As a new article of manufacture, a clip formed of a single piece of sheet-metal and comprising a body, a holder for a pen or pencil struck from the body, and a hook on one edge of the body and arranged to straddle a pocket wall and hold the body flatwise against the same.

1,337,964. PERCOLATOR. ISABELL M. ROSE, Leroy, Tex. Filed Dec. 12, 1916. Serial No. 136,474. 2 Claims. (Cl. 53—3.)



1. In a device as described, in combination, a kettle, a lid thereon, a stand arranged upon the bottom of the kettle, a vertical tube secured upon said stand, a tube

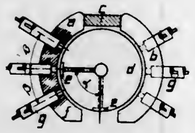
slidably mounted upon the first-named tube, a perforated vessel supporting said last-named tube and adjustable therewith, means for holding the adjusted tube and vessel against vertical displacement, a deflector plate carried by said slidable tube above its upper end, a loop handle carried by said deflector plate, said lid being formed with a slot through which said handle snugly projects whereby said tubes and stand are maintained in vertical position.

1,337,965. BUCKLE. JOHN ULMER RUSS, Derby, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn., a Corporation of Connecticut. Filed Nov. 22, 1918, Serial No. 263,665. Renewed Feb. 18, 1920. Serial No. 359,539. 4 Claims. (Cl. 24—171.)



1. A buckle comprising a frame provided with a webbing opening and a web-deflecting bar slidably mounted on said frame across said opening, in combination with a running webbing one end of which is swaged to said bar, its moving portion being passed forwardly through said opening underneath said bar and rearwardly through said opening over said bar, whereby the said moving portion is deflected by said bar into said opening and the under side of said bar may co-act with the lower side of said opening to grip the webbing when the latter is under stress.

1,337,966. HIGH-TENSION DISTRIBUTER FOR INTERNAL-COMBUSTION ENGINES. JACQUES SCHNEIDER and FREDERIC BILLON, Solothurn, Switzerland. Filed Oct. 19, 1918. Serial No. 258,914. 2 Claims. (Cl. 200—24.)



1. In a high tension distributer for internal combustion engines comprising a cylindrical insulated rotating element carrying high tension leads connected to contacts arranged in varying angular positions on the surface of such cylindrical body, the combination with a pair of divided insulated segments partly surrounding the said cylindrical element and concentric therewith, having contacts on their inner faces arranged in pairs around and in line with the contacts of the rotating element in varying planes connected by leads to sparkling plugs, substantially as set forth.

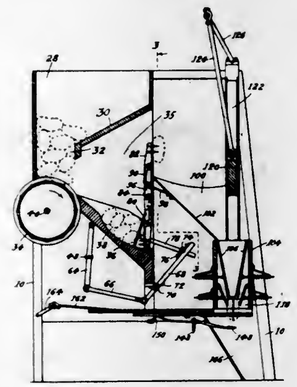
1,337,967. TOY GUN. MAX SCHOEN, San Francisco, Calif. Filed Nov. 11, 1919. Serial No. 337,225. 1 Claim. (Cl. 124—12.)

A toy gun comprising a gun stock and barrel, a throwing member hinged to the gun barrel and adapted to move upwardly when released, the throwing member resting in a recess in the gun barrel to bring it flush therewith when the spring is set, a spring for operating the throwing member, a trigger, a spring for supporting said trigger, a pin



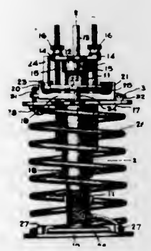
for holding the trigger in a given position whenever the trigger has been released and a hook on the throwing member for engaging the trigger to hold the throwing member down when a projectile is to be placed thereon.

1,337,968. MACHINE FOR CUTTING UP POTATOES FOR PLANTING. JESSE LYLE SCHROEDER, Erie, N. D. Filed Mar. 17, 1919. Serial No. 283,156. 8 Claims. (Cl. 146—7.)



1. A machine for cutting seed potatoes comprising means for delivering the potatoes one at a time from a supply regardless of size, means for longitudinally cutting the potatoes as delivered, and a reciprocating knife blade for also transversely cutting the large potatoes.

1,337,969. APPARATUS FOR CALIBRATING U-TUBES FOR FLOW-METERS AND THE LIKE. JOHN A. SHOREY, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 26, 1916. Serial No. 138,847. 7 Claims. (Cl. 73—31.)



1. A calibrating instrument comprising a base, a U-tube having its lower portion and one leg fixed to the base, the other leg being vertically extensible, an indicating liquid in the U-tube, an indicating point on the leg of the U-tube, means for extending said extensible leg to move the indicating point away from the meniscus of the indicating liquid, means whereby the amount of such movement may be measured, and means whereby a pressure may be applied to a leg of the U-tube to bring the meniscus to the indicating point.

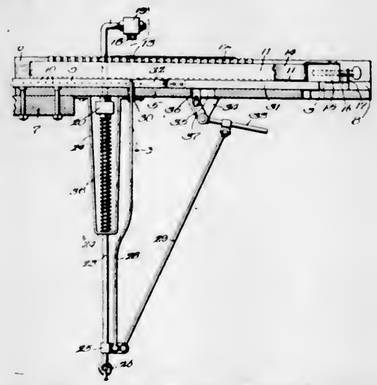
2. A calibrating instrument comprising a base, a U-tube having its lower portion and one leg fixed to the base, the other leg being vertically extensible and having an indicating point thereon, an indicating liquid in the U-tube, means for extending said leg to bring the meniscus to said indicating point, and means whereby the amount of such movement may be measured.

3. A calibrating instrument comprising a base and a U-tube supported thereon having two legs, one of which is vertically adjustable relative to the other, an indicating liquid in the U-tube, an indicating point on the adjustable leg, means for extending the adjustable leg vertically to bring the meniscus therein to the indicating point, and means for indicating the amount of such movement.

4. A calibrating instrument comprising a base and a U-tube supported thereon having two legs, one of which is vertically adjustable relative to the other, means for extending the adjustable leg, means whereby the amount of such extensions may be measured, said adjustable leg having a portion which extends at an acute angle to the plane of the base, and an indicating point on such portion.

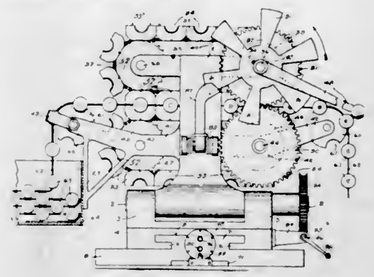
5. In a calibrating instrument, the combination of a base, a vertically adjustable support thereon, a U-tube comprising two legs mounted on the base, and an adjustable frame on the support, said frame extending at an acute angle to the support, and one of said legs being fastened to said frame.

1,337,970. ADDRESSOGRAPH. RUPERT B. SMART, Chicago, Ill. Filed Mar. 8, 1919. Serial No. 281,413. 6 Claims. (Cl. 101—64.)



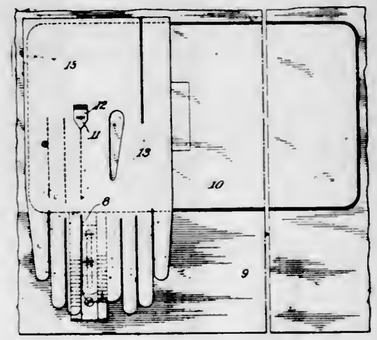
1. In a device of the character described, the combination of a frame having a slideway, a receptacle movable therein and provided with a series of spaced type elements embodying the addresses to be printed, a depressible cross-head having work positioning arms vertically slidable in and guided by the frame at opposite sides of the slideway and an actuating rod yieldingly mounted in and depending below said frame, said cross-head provided with a platen designed to coöperate with a type element upon depression of the head, and coacting means associated with said rod and receptacle capable of successively positioning and then advancing the type elements during movement of the head, said arms transversely alined above the frame, whereby they are adapted to serve as work-positioning elements, and terminally provided with a connection below the frame with said actuating rod.

1,337,971. RAPID-FIRE GUN. WILLIAM F. WATKINS, Seattle, Washington, assignor of one-half to H. B. Perène, Seattle, Wash. Filed July 5, 1918, Serial No. 243,291. Renewed Sept. 2, 1919. Serial No. 321,263. 11 Claims. (Cl. 89—13.)



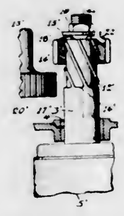
1. In a gun, a plurality of breech-blocks formed in half-sections, said half-sections being arranged in side by side relation and secured to endless moving belts and being adapted to register to form complete breech blocks as they pass the firing position.

1,337,972. GLOVE-POINTING GAGE. GEORGE SILVANUS WEBB, Jr., Sidney, N. Y., assignor to Julius Kayser & Co., New York, N. Y., a Corporation of New York. Filed Dec. 9, 1919. Serial No. 343,654. 3 Claims. (Cl. 112—9.)



1. A gage for glove pointing machines embodying a vertical stop on the machine in appropriate relation to the needles thereof and adapted to enter the slit between adjoining fingers of the glove blank.

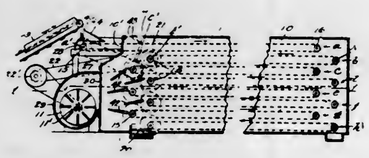
1,337,973. ENGINE-STARTING APPARATUS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Nov. 16, 1916. Serial No. 131,641. 8 Claims. (Cl. 290—48.)



7. In an engine starting device, in combination, a motor having a slidable shaft, a driving gear loosely threaded

thereon, a driven gear connected with an engine, and a compression spring between said shaft and said driving gear, whereby if butting of teeth occurs, said spring will permit said shaft to slide with respect to said driving gear, imparting a slight rotation thereto to relieve butting.

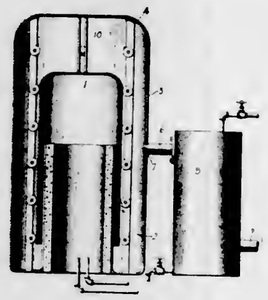
1,337,974. FOOD CURING AND SMOKING APPARATUS. RALPH R. CASEY, Seattle, Wash. Filed Oct. 8, 1919. Serial No. 329,181. 5 Claims. (Cl. 99—2.)



1. In apparatus of the character described a smoke chamber, a source of smoke, connection between the latter and the front end of said chamber, a power driven fan provided in said connection, a conduit between the rear end of the chamber and said connection, and a valve adapted to be used selectively for closing said conduit or the connection with respect to the source of smoke.

4. In apparatus of the character described, a smoke chamber, and means to successively supply and withdraw food curing gases into and from the chamber, a series of superposed conveyers within the chamber, and means for directing currents of said gases with respect to selected series of conveyers.

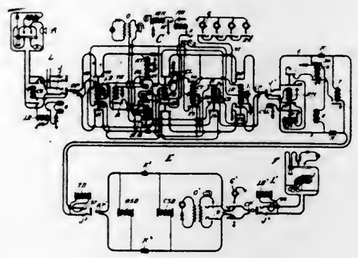
1,337,975. GAS-HOLDER. FRANCIS C. FRARY, Pittsburgh, Pa. Filed Mar. 31, 1919, Serial No. 286,391. Renewed Feb. 5, 1920. Serial No. 356,418. 5 Claims. (Cl. 23—3.)



1. In a gas holder containing a sealing liquid, means for protecting the said sealing liquid from moisture.

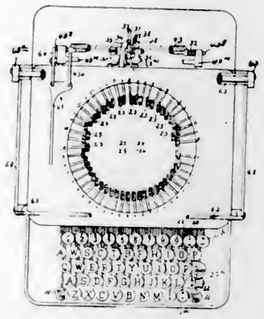
1,337,976. TELEPHONE SYSTEM. JOHN E. HILBISH, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 16, 1915, Serial No. 40,181. Divided and this application filed Apr. 12, 1918. Serial No. 228,088. 9 Claims. (Cl. 179—73.)

9. A telephone system including a pair of subscribers' lines, a link circuit for connecting said subscribers' lines, a ringer relay, an operator's switch for closing a circuit for said ringer relay, an interrupter adapted to be afterward included in the circuit of said ringer relay, and a relay



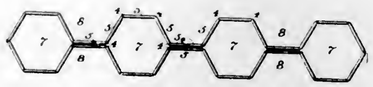
controlled directly over the subscriber's line having a contact in said latter circuit.

1,337,977. TYPEWRITER. FREDERIC W. HILLARD, Tottenville, N. Y., assignor of one-half to Mary R. Hillard, Middlebury, Conn. Filed May 18, 1894. Serial No. 511,685. 29 Claims. (Cl. 197—87.)



1. In a typewriter, the combination in an escapement comprising two members, of a beveled face on each member normally out of engagement with the beveled face on the other, a printing member, and a key connected with the printing member to move it to printing position and connected with the escapement for engaging the beveled faces when the key is actuated.

1,337,978. EGG-CASE FILLER. CHARLES E. LA FLEUR, Philadelphia, Pa. Filed Jan. 9, 1919. Serial No. 270,387. 4 Claims. (Cl. 217—23.)



2. An egg-case filler strip comprising a long strip of fibrous sheet material having continuous straight parallel edges, said strip having its length divided into a plurality of panels integrally connected by transverse hinge portions formed of densified fiber to a thickness greatly less than the thickness of the sheet material and compressed with a reverse curve or ogee cross section whereby it may be freely bent in either direction, said strip folded upon itself and having a portion of the abutting panels secured together whereby a filler section is provided capable of being opened to provide polygonal pockets.

1,337,979. BOTTLE. HENRI E. MARCIL, Montreal, Quebec, Canada. Filed Nov. 11, 1918. Serial No. 262,008. 2 Claims. (Cl. 215—14.)



1. A bottle having an enlarged upper flange formed with a seat, a disk adapted for location within said seat for closing said bottle, a portion of the neck of said bottle below said seat; being bulged inwardly to form a recess, the inner edge of said disk adapted to project within the neck of said bottle.

1,337,980. RIBBON-INKING ATTACHMENT FOR TYPEWRITERS. WILLIAM PAIN, Little Rock, Wash., assignor of one-third to Dominic Roppo, Seattle, Wash., and one-third to Julia E. Waldrip, Olympia, Wash. Filed June 12, 1919. Serial No. 303,722. 2 Claims. (Cl. 197—171.)



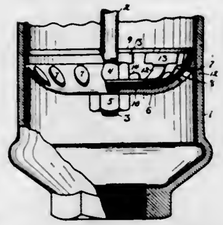
1. The combination with a typewriter having a ribbon and a ribbon guide connected to the typewriter, of a casing provided at one end with means for engaging said ribbon guide for securing the casing to the typewriter, said casing being provided with an opening at one end thereof and at the opposite side of the ribbon from the ribbon guide, and a liquid absorbent material provided within the casing and extending through said opening into juxtaposition with the ribbon.

1,337,981. PRESSURE-COOKER. JACOB E. WAGGONER, Chicago, Ill., assignor to Halftime Cooker Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1918. Serial No. 223,556. 2 Claims. (Cl. 53—1.)



2. In a pressure cooker, a receptacle provided with an outwardly extending annular flange at its upper edge, a cover for said receptable, a separate reinforcing ring engaging the under surface of said flange, a detachable yoke member having its middle portion bearing against the top of said cover and having one end operatively connected to said reinforcing ring at one side of the receptacle, a link member for connecting said reinforcing ring to the other end of said yoke member at the opposite side of said receptacle, and a screw carried by said link member and bearing against the end of said yoke member which projects into said link member, and a handle on said screw whereby the screw may be adjusted to force the end of the yoke member toward the reinforcing ring to clamp the cover in place on the receptacle.

1,337,982. PISTON-HEAD. FRANK EILERS, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Nov. 1, 1919. Serial No. 335,025. 5 Claims. (Cl. 103—63.)



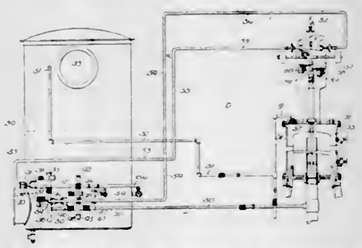
1. In a valvular piston for a displacement pump having a cylinder and pump rod, a cup-shaped sustaining member fixed upon the rod and fitting loosely in the cylinder and having an annular series of passage-ways extending therethrough; a flexible valvular member lying within the hollow of the sustaining member so as to normally close the passage-ways therein and with its perimeter extending beyond that of the sustaining member and bearing against the inner wall of the cylinder; and an expanding spider having radially disposed bowed arms the outer ends of each pressing the corresponding outer portion of the valvular member against the cylinder wall, and having also radially disposed tongues intervening between said arms respectively tending to hold the central part of the valvular member in contact with the corresponding face of the sustaining member, the annular portion of the valvular member extending between the outer ends of the tongues and arms and covering the passage-ways in the sustaining member, being free from direct pressure of the spider.

1,337,983. FOOTWEAR. LOUIS TROLLE, Racine, Wis., assignor to American Metal Shoe Company, Racine, Wis., a Corporation of Wisconsin. Filed Dec. 5, 1916. Serial No. 135,126. Renewed Aug. 16, 1919. Serial No. 318,041. 10 Claims. (Cl. 36—73.)



1. An article of footwear, comprising a flexible upper, a metallic bottom secured to the upper, a second metallic member, formed separately from the bottom and permanently united thereto, and a relatively soft ground-engaging member secured to the second metallic member.

1,337,984. TAR-EXTRACTOR APPARATUS AND METHOD. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1918. Serial No. 264,968. 15 Claims. (Cl. 183—75.)



2. In a tar-extractor apparatus, in combination: a chamber for the flowing gas and accumulating tar; per-

forate baffle-plates in said chamber, for effecting deposition of tar from the flowing gas, said plates being arranged to be partially immersed in the accumulating tar; means, operable by power derived independently of the gas flow for raising and lowering the tar level in said chamber; and a controller to operate said means in automatic response to changes in the pressure differential of the gas flow through said baffle-plates; substantially as specified.

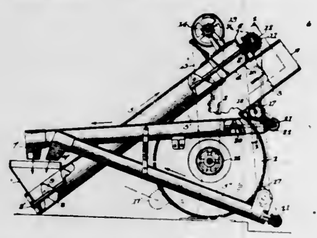
1,337,985. SEAL. ERNEST REICH, Chicago, Ill., assignor to Hill Pump Valve Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1916. Serial No. 109,300. 23 Claims. (Cl. 292—322.)



1. In a seal, a tubular member having a flange, a second tubular member having means for interlocking with said first named member, and a strip connecting said members, said members being arranged one on each side of said strip, the end portion of said strip being folded upon itself to afford a closure for the open base portion of the appertaining tubular member.

REISSUES.

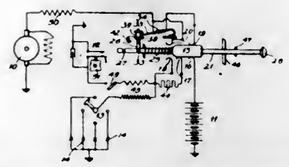
14,841. CONVEYER. GEORGE BERNERT, Milwaukee, Wis., assignor to Bernert Manufacturing Company, Milwaukee, Wis., a Corporation of South Dakota. Filed Jan. 20, 1920. Serial No. 352,845. Original No. 1,264,601, dated Apr. 30, 1918, Serial No. 189,463, filed Sept. 4, 1917. 5 Claims. (Cl. 302—32.)



1. A device for preventing clogging of the air-pressure space of a pneumatic grain conveyer by material introduced therein to be conveyed, comprising the combination with a casing, a blower fan therein and a trunk extending from the casing and inclosing an air-pressure space in conjunction therewith, of a pocket having free communication with said space to receive grain tending to accumulate in the pressure space, the mouth of said pocket being entirely open, said pocket being provided with an inclosed extension in communication therewith, and a movable closure for the outer end of the pocket extension.

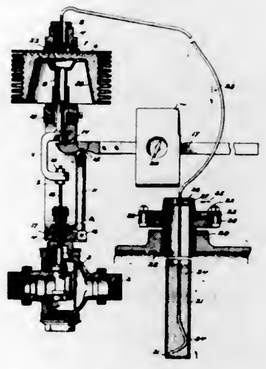
14,842. ELECTRICAL STARTING AND IGNITION SYSTEM. JAMES K. DELANO, Yonkers, N. Y. Filed Mar. 15, 1920. Serial No. 366,069. Original No. 1,330,520, dated Feb. 10, 1920, Serial No. 97,274, filed May 13, 1916. 22 Claims. (Cl. 290—35.)

5. In an electrical starting system for use with internal combustion engines, the combination, with dynamo electric means adapted for driving connection to an internal combustion engine, and a storage battery arranged to be charged from said dynamo electric means and to deliver current thereto, of a switch device, thermostatic means operable by excessive flow of current between said dynamo electric means and battery to effect movement of said switch device and thereby to disconnect said dynamo electric means and battery, said switch device being also movable to connect said dynamo means directly to the battery when starting the engine.



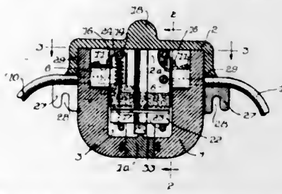
11. In an electrical system for use with internal combustion engines, the combination, with a source of electric current and engine-starting means arranged to be energized thereby, of an ignition circuit also arranged to be energized from said source, and means for decreasing the normal resistance of said ignition circuit while the engine is being started.

14,843. AUTOMATIC TANK-REGULATOR. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Mar. 1, 1920. Serial No. 362,556. Original No. 1,102,035, dated June 30, 1914, Serial No. 614,059, filed Mar. 13, 1911. 11 Claims. (Cl. 236—18.)



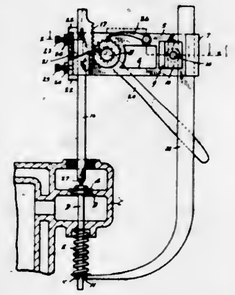
1. In combination, a hot water tank, provided with a valve controlled heat supply conduit, a thermosensitive bulb for containing a volatile liquid and located in said tank, a vibratory vessel filled with liquid, a conduit opening into said vessel and having a trap connection with said bulb, said vessel normally tending to discharge liquid into said conduit and bulb against vapor pressure in said bulb thereby maintaining said conduit filled with liquid, and connections between said vessel and valve for operating the latter.

14,844. FUSE DEVICE. ALFRED HERZ, Chicago, Ill., assignor of one-half to Edmund O. Schweitzer, Chicago, Ill. Filed Aug. 13, 1917. Serial No. 186,039. Original No. 1,222,952, dated Apr. 17, 1917, Serial No. 604,836, filed Jan. 26, 1911. 9 Claims. (Cl. 200—129.)



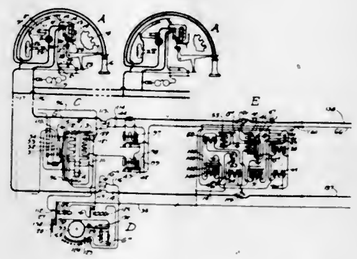
1. A fuse device having a casing provided with interiorly arranged contact members in combination with a fuse holding device provided with contact members to coöperate with said contact members in the casing, said casing having an aperture through which the fuse holding device may be inserted into and withdrawn from the casing, said fuse holding device having a member projecting out through said aperture when the fuse holding device is in position in the casing, and a closure for said aperture, said closure being adapted to engage said projecting member and thereby hold the same in position.

14,845. VALVE-SPRING COMPRESSOR. ANDREW B. LOCKHART, Redlands, Calif. Filed Oct. 6, 1919. Serial No. 328,954. Original No. 1,266,285, dated May 14, 1918, Serial No. 182,433, filed July 24, 1917. 5 Claims. (Cl. 29—87.1.)



1. A tool of the character described comprising a plate-like frame formed with guide cleats at opposite ends, a substantially L-shaped arm slidably received in one of the cleats and having a forked terminal, a wedging fastener carried by the frame and engageable with the arm to hold the same in adjusted position thereon, a toothed rack slidable in the other cleat and having a centering pin, a gear rotatably journaled on the frame and meshing with the toothed rack, and a handle for rotating the gear.

14,846. TWO-WIRE PARTY-LINE LOCKOUT TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 5, 1919. Serial No. 342,826. Original No. 1,291,587, dated Jan. 14, 1919, Serial No. 600,610, filed Jan. 3, 1911. Renewed Apr. 29, 1918, Serial No. 231,539. 13 Claims. (Cl. 179—17.)



1. In a telephone system, a party-line having a plurality of telephone stations thereon, a relay at each of said stations, means for only momentarily energizing said relay when said line is taken for use at any station, means outside the central station controlled by said relay for preventing any other subscriber from coming in on said line when said line is busy, a calling device for said party line, and a progressively movable switch associated with said line, said switch responsive to the operation of the calling device for extending connection to the called line.

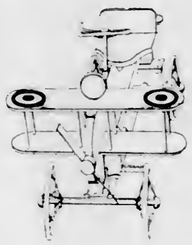
DESIGNS.

54,884. CASING FOR A VACUUM-INSULATED JAR. GEORGE P. ALTENBERG, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed June 11, 1917. Serial No. 174,146. Term of patent 14 years.



The ornamental design for a casing for a vacuum insulated jar, substantially as shown.

54,885. TOY AEROPLANE. CLARENCE W. BENNETT, New York, N. Y., assignor to Arden Manufacturing Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 4, 1919. Serial No. 321,722. Term of patent 7 years.



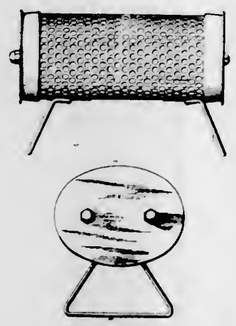
The ornamental design for a toy aeroplane, as shown.

54,886. SUBSTATION TELEPHONE-SUPPORT. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1918. Serial No. 238,598. Term of patent 14 years.



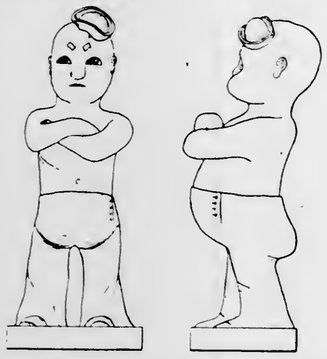
The ornamental design for a substation telephone support as shown.

54,887. ELECTRIC HEATER. FRED C. BOYD, New Haven, Conn., assignor to The Faraday Co., New Haven, Conn., a Corporation. Filed Oct. 13, 1919. Serial No. 330,496. Term of patent 14 years.



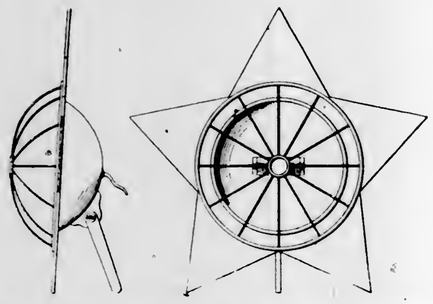
The ornamental design for an electric heater as shown.

54,888. DOLL FIGURE. FURN O. BROCKMAN, Rosedale, Kans. Filed Nov. 1, 1919. Serial No. 335,179. Term of patent 3½ years.



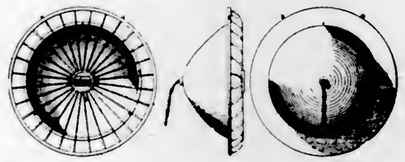
The ornamental design for a doll figure, as shown.

54,889. ELECTRIC HEATER. EDMUND N. BROWN, San Francisco, Calif. Filed Aug. 18, 1919. Serial No. 318,421. Term of patent 14 years.



The ornamental design of an electric heater substantially as shown.

54,890. ELECTRIC HEATER. EDMUND N. BROWN, San Francisco, Calif. Filed Sept. 16, 1919. Serial No. 324,254. Term of patent 14 years.



The ornamental design of an electric heater substantially as shown.

54,891. DUSTPAN. NORBERT BRULÉ, St. Barthélemi, Quebec, Canada. Filed Jan. 16, 1919. Serial No 271,530. Term of patent 3½ years.

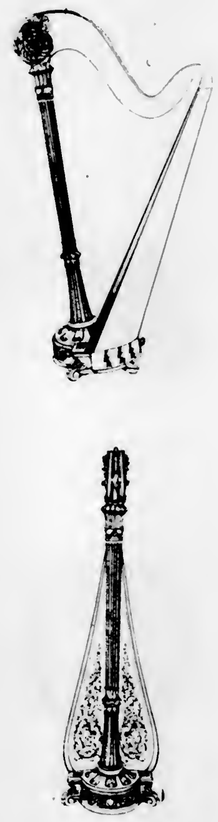


The ornamental design for a dustpan, as shown in the accompanying drawing.

54,892. HARP. DONALD CAMPBELL, Chicago, Ill., assignor to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1919. Serial No. 311,886. Term of patent 14 years.

The ornamental design for a harp, as shown.

54,893. HARP. DONALD CAMPBELL, Chicago, Ill., assignor to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1919. Serial No. 311,887. Term of patent 14 years.



The ornamental design for a harp, as shown.

54,894. NAIL SET. GUSTAVE O. CARLSON, Wethersfield, Conn. Filed Aug. 11, 1919. Serial No. 316,884. Term of patent 3½ years.



The ornamental design for a nail set

54,895. HIGH BOOT. FREDERICK GEORGE CHAMBERLIN, Faith, Norfolk, England. Filed Sept. 26, 1919. Serial No. 326,683. Term of patent 14 years.



The ornamental design for a high boot, as shown.

54,896. LEGGING. FREDERICK GEORGE CHAMBERLIN, Faith, Norfolk, England. Filed Sept. 26, 1919. Serial No. 326,684. Term of patent 14 years.



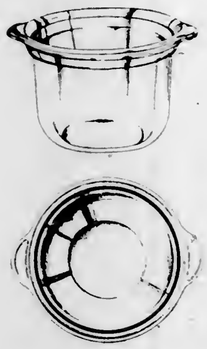
The ornamental design for a legging, as shown.

54,897. MOCCASIN. LUDGER CHAREST, Auburn, Me. Filed Nov. 12, 1919. Serial No. 337,617. Term of patent 3½ years.



The ornamental design for a moccasin substantially as shown.

54,898. TRANSPARENT COOKING-DISH. WILLIAM CHURCHILL, Corning, N. Y., assignor to Corning Glass Works, a Corporation of New York. Filed Nov. 1, 1917. Serial No. 199,769. Term of patent 14 years.



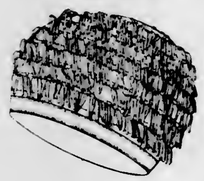
The ornamental design for a transparent cooking dish as shown.

54,899. TRANSPARENT COOKING-DISH. WILLIAM CHURCHILL, Corning, N. Y., assignor to Corning Glass Works, a Corporation of New York. Filed Nov. 1, 1917. Serial No. 199,770. Term of patent 14 years.



The ornamental design for a transparent cooking dish as shown.

54,900. BATHING-CAP OR SIMILAR ARTICLE. FRANK W. DODGE, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed Oct. 29, 1919. Serial No. 334,361. Term of patent 14 years.



The ornamental design for a bathing cap or similar article, as shown.

54,901. BATHING-CAP OR SIMILAR ARTICLE. FRANK W. DODGE, New Haven, Conn. Filed Oct. 29, 1919. Serial No. 334,362. Term of patent 14 years.



The ornamental design for a bathing cap or similar article, as shown.

54,902. TOY. IRWIN DUNBAR and FRANK NORRIS, Kirksville, Mo. Filed Oct. 25, 1919. Serial No. 333,409. Term of patent 14 years.



The ornamental design for a toy, as shown.

54,903. RUBBER BALL. ROBERT C. EDDY, Milwaukee, Wis. Filed Apr. 23, 1917. Serial No. 164,063. Term of patent 14 years.



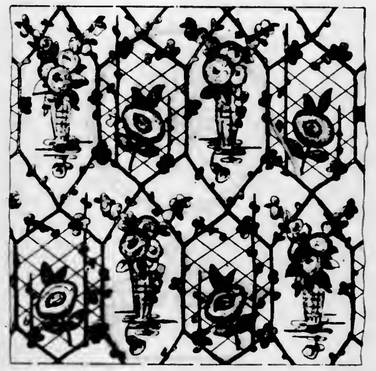
The ornamental design for a rubber ball, as shown.

54,904. PHONOGRAPH-CABINET. OLIVER ELISON, Wayne, Nebr. Filed July 20, 1918. Serial No. 245,959. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

54,905. ARTICLE OF MANUFACTURE. EMILE ERICSON, Yonkers, N. Y., assignor to Witcombe, McGeachin & Co., a Partnership composed of H. A. Witcombe and George McGeachin, New York, N. Y. Filed Dec. 2, 1919. Serial No. 342,039. Term of patent 7 years.



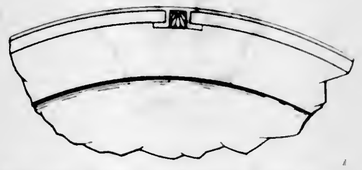
The ornamental design for an article of manufacture, substantially as shown and described.

54,906. ARTICLE OF MANUFACTURE. GUSTAVE M. FAUSER, New York, N. Y., assignor to Witcombe, McGeachin & Co., a Partnership composed of H. A. Witcombe and George McGeachin, New York, N. Y. Filed Nov. 11, 1919. Serial No. 337,260. Term of patent 7 years.



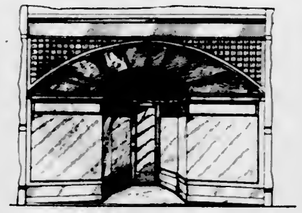
The ornamental design for an article of manufacture, substantially as shown and described.

54,907. CHINA TABLEWARE ARTICLE. CLARENCE FIRTH, Indianapolis, Ind. Filed Aug. 8, 1919. Serial No. 316,269. Term of patent 7 years.



The ornamental design for a china tableware article, as shown and described.

54,908. STORE-FRONT. MAURICE GILLETTE, New York, N. Y. Filed Oct. 23, 1919. Serial No. 332,837. Term of patent 7 years.



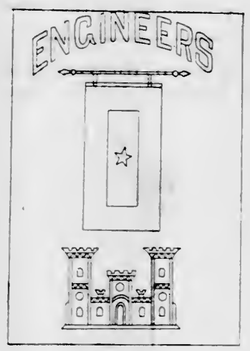
The ornamental design for a store front, as shown.

54,909. EMBROIDERED ART PANEL, BANNER, OR FLAG. MILTON J. GORDON, Weehawken, N. J. Filed Mar. 22, 1918. Serial No. 224,081. Term of patent 3½ years.



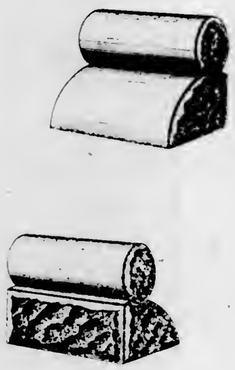
The ornamental design for an embroidered art panel, banner, or flag substantially as shown.

54,910. EMBROIDERED ART PANEL, BANNER, OR FLAG. MILTON J. GORDON, Weehawken, N. J. Filed Mar. 22, 1918. Serial No. 224,082. Term of patent 3½ years.



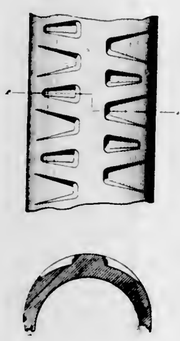
The ornamental design for an embroidered art panel, banner, or flag, substantially as shown.

54,911. MONUMENT. FREDERICK A. GREARSON, Barre, Vt., assignor to Grearson & Lane Company, Barre, Vt., a Corporation of Vermont. Filed Jan. 16, 1919. Serial No. 271,529. Term of patent 14 years.



The ornamental design for a monument, as shown.

54,912. TIRE. WALTHER H. GROTE, Louisville, Ky., assignor to Ten Broeck Tyre Company, Louisville, Ky., a Corporation of Delaware. Filed Nov. 13, 1919. Serial No. 337,855. Term of patent 7 years.



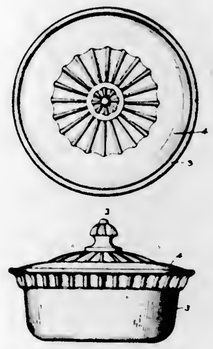
The ornamental design for a tire, as shown.

54,913. PIN. LOYCE D. HACKETT, Miami, Fla. Filed Aug. 8, 1919. Serial No. 316,267. Term of patent 3½ years.



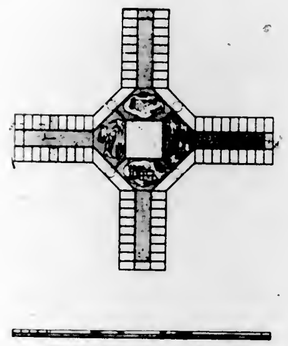
The ornamental design for a pin, as shown.

54,914. GLASS CASSEROLE OR BAKING-DISH AND COVER. REUBEN HALEY, Beaver, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,919. Term of patent 7 years.



The ornamental design for a glass casserole or baking dish and cover, substantially as shown.

54,915. GAME. JESUS HARO, New York, N. Y. Filed Aug. 4, 1919. Serial No. 315,319. Term of patent 14 years.



The ornamental design for a game, as shown.

54,916. SALT AND PEPPER BASKET. RUTH E. HARRIS, and ROY L. CHANCE, San Francisco, Calif. Filed Feb. 11, 1920. Serial No. 359,458. Term of patent 14 years.



The ornamental design for a salt and pepper basket, as shown.

54,917. SHINGLE-SIMULATING STRIP. OTTO A. HEPPES, La Grange, Ill. Filed Sept. 4, 1917. Serial No. 189,700. Term of patent 14 years.



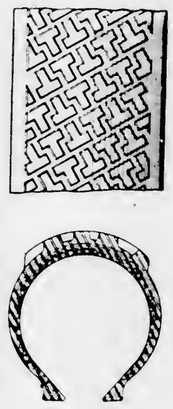
The ornamental design for a shingle simulating strip as shown.

54,918. DOLL. ASTRID HERMELIN, New York, N. Y., assignor to Greely Square Hotel Company, a Corporation of New York. Filed Oct. 20, 1919. Serial No. 332,119. Term of patent 7 years.



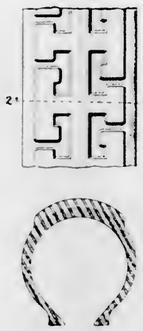
The ornamental design for a doll, as shown.

54,919. ELASTIC VEHICLE-TIRE. GEORGE P. HOFFMAN, Akron, Ohio. Filed Nov. 8, 1919. Serial No. 336,751. Term of patent 14 years.



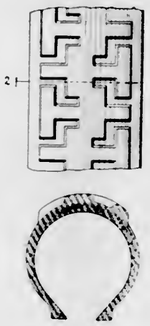
The ornamental design for an elastic vehicle tire as shown.

54,920. ELASTIC VEHICLE-TIRE. GEORGE P. HOFFMAN, Akron, Ohio. Filed Nov. 8, 1919. Serial No. 336,752. Term of patent 14 years.



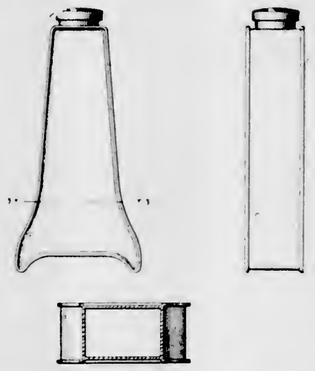
The ornamental design for an elastic vehicle tire as shown.

54,921. ELASTIC VEHICLE-TIRE. GEORGE P. HOFFMAN, Akron, Ohio. Filed Nov. 8, 1919. Serial No. 336,753. Term of patent 14 years.



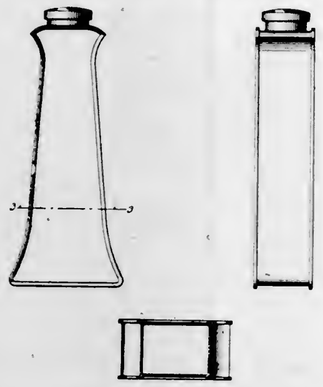
The ornamental design for an elastic vehicle tire as shown.

54,922. POWDER-CONTAINER. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Apr. 26, 1919. Serial No. 293,019. Term of patent 7 years.



The ornamental design for a powder container as shown.

54,923. POWDER-CAN OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Apr. 30, 1919. Serial No. 293,852. Term of patent 7 years.



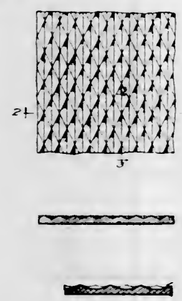
The ornamental design for a powder can or similar receptacle.

54,924. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed May 23, 1919. Serial No. 299,349. Term of patent 7 years.



The ornamental design for a powder container or similar receptacle.

54,925. SHEET-GLASS. EMIL GOTTFRIED JOHANSON, Chicago, Ill., assignor to David H. Roblin, Chicago, Ill. Filed Dec. 11, 1916. Serial No. 136,365. Term of patent 14 years.



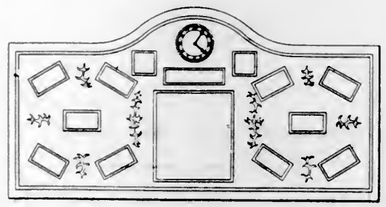
The ornamental design for sheet glass as shown.

54,926. VASE. THOMAS G. JONES, East Orange, N. J. Filed Nov. 18, 1919. Serial No. 338,978. Term of patent 14 years.



The ornamental design for a vase as shown and described.

54,927. COMBINED TIME-TABLE, ADVERTISING BOARD, AND CLOCK. JOHN L. KAHLES, Oakland, Calif. Filed Jan. 9, 1917. Serial No. 141,488. Term of patent 7 years.



The ornamental design for a combined time table, advertising board and clock as shown.

54,928. CABINET FOR A TALKING-MACHINE. EUGENE T. KIEFFER, Philadelphia, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed July 2, 1919. Serial No. 308,332. Term of patent 14 years.



The ornamental design for a cabinet for a talking machine, as shown.

54,929. CABINET FOR A TALKING-MACHINE. EUGENE T. KIEFFER, Philadelphia, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed July 2, 1919. Serial No. 308,333. Term of patent 14 years.



The ornamental design for a cabinet for a talking machine, as shown.

54,930. ELECTRIC HEATER. SIDNEY M. KNAPP, New York, N. Y. Filed Oct. 6, 1919. Serial No. 328,914. Term of patent 7 years.



The ornamental design for an electric heater, as shown.

54,931. STATUETTE. FRANK A. KOCH, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,706. Term of patent 3½ years.



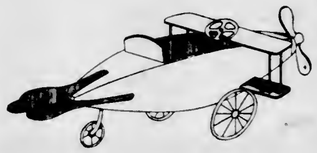
The ornamental design for a statuette as shown.

54,932. BODICE. ROZY KRAUZIEWICZ, Pittsburgh, Pa. Filed Aug. 23, 1919. Serial No. 319,501. Term of patent 3½ years.



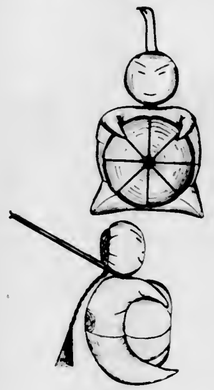
The ornamental design for a bodice as shown.

54,933. CHILD'S TOY VEHICLE. RAY F. KUNS, Cincinnati, Ohio. Filed Sept. 15, 1919. Serial No. 324,049. Term of patent 14 years.



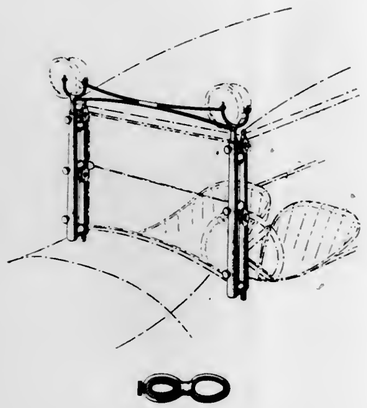
The ornamental design for a child's toy vehicle, as shown.

54,934. PINCUSHION. JULIET LA CROIX, Los Angeles, Calif. Filed June 24, 1919. Serial No. 306,480. Term of patent 3½ years.



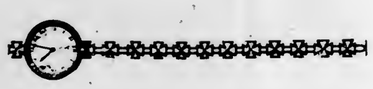
The ornamental design for a pin cushion as shown.

54,935. HEADLIGHT-BRACKET. JOSEPH LOUIS PHILIPPE LANDRY, Mont Joli, Quebec, Canada. Filed Mar. 21, 1919. Serial No. 284,217. Term of patent 14 years.



The ornamental design for a headlight bracket, as shown.

54,936. WATCH-BRACELET. ALEXANDER LEVIN and JOSEPH MEDIN, Calumet, Mich. Filed May 29, 1919. Serial No. 299,671. Term of patent 7 years.



The ornamental design for a watch bracelet, as shown.

54,937. FLAG-HOLDER. HANS K. LORENTZEN, New York, N. Y. Filed Sept. 17, 1917. Serial No. 191,872. Term of patent 7 years.



The ornamental design for a flag holder as shown.

54,938. HEEL FOR A BOOT, SHOE, OR SIMILAR ARTICLE. OSSIAN G. LYON, Akron, Ohio, assignor to Rayon Rubber Co., Ravenna, Ohio, a Corporation of Ohio. Filed Oct. 17, 1919. Serial No. 331,481. Term of patent 14 years.



The ornamental design for a heel for a boot, shoe, or similar article, as shown.

54,939. DOLL. JAMES W. MACBOYLE, Chicago, Ill. Filed Oct. 13, 1919. Serial No. 330,504. Term of patent 14 years.



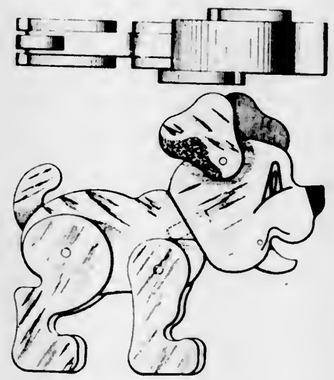
The ornamental design for a doll, as shown.

54,940. TOY ANIMAL. LEON ST. DENIS MALONE, Rochester, Pa., assignor of one-half to Nancy H. H. De Ford, Baltimore, Md., and one-half to Elizabeth H. Finney, Evanston, Ill. Filed May 20, 1919. Serial No. 298,568. Term of patent 3½ years.



The ornamental design for a toy animal as shown.

54,941. TOY ANIMAL. LEON ST. D. MALONE, Rochester, Pa., assignor of one-half to Nancy H. H. De Ford, Baltimore, Md., and one-half to Elizabeth H. Finney, Evanston, Ill. Filed June 4, 1919. Serial No. 301,849. Term of patent 3½ years.



The ornamental design for a toy animal substantially as shown.

54,942. TOY ANIMAL. LEON ST. D. MALONE, Rochester, Pa., assignor of one-half to Nancy H. H. De Ford, Baltimore, Md., and one-half to Elizabeth H. Finney, Evanston, Ill. Filed June 4, 1919. Serial No. 301,850. Term of patent 3½ years.



The ornamental design for a toy animal substantially as shown.

54,943. TOY BIRD. LEON ST. D. MALONE, Rochester, Pa., assignor of one-half to Nancy H. H. De Ford, Baltimore, Md., and one-half to Elizabeth H. Finney, Evanston, Ill. Filed June 4, 1919. Serial No. 301,851. Term of patent 3½ years.



The ornamental design for a toy bird substantially as shown.

54,944. TOY BIRD. LEON ST. D. MALONE, Rochester, Pa., assignor of one-half to Nancy H. H. De Ford, Baltimore, Md., and one-half to Elizabeth H. Finney, Evanston, Ill. Filed June 4, 1919. Serial No. 301,852. Term of patent 3½ years.



The ornamental design for a toy bird substantially as shown.

54,945. PHONOGRAPH-CABINET. WILLIAM A. MANGLESS, Chicago, Ill., assignor to American Automatic Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1919. Serial No. 341,337. Term of patent 14 years.



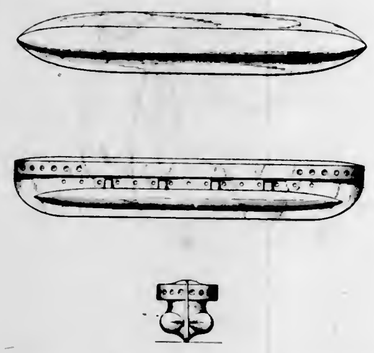
The ornamental design for a phonograph cabinet as shown.

54,946. PHONOGRAPH-CABINET. WILLIAM A. MANGLESS, Chicago, Ill., assignor to American Automatic Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1919. Serial No. 341,339. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

54,947. BODY OF AN AIRSHIP. CHARLES W. MANZEL, Buffalo, N. Y. Filed Sept. 30, 1919. Serial No. 327,601. Term of patent 14 years.



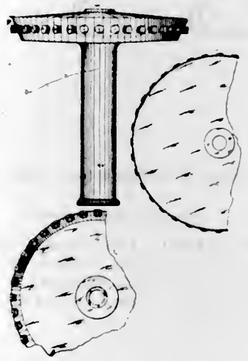
The ornamental design for a body of an airship, as shown.

54,948. BANNER. EDWIN M. MARTIN, Cincinnati, Ohio. Filed Feb. 10, 1919. Serial No. 276,235. Term of patent 7 years.



The ornamental design for a banner, as shown.

54,949. GASEOUS-FUEL-BURNER SUPPORT. HENRY MCKINNIE, Pittsburgh, Pa. Filed May 17, 1919. Serial No. 297,976. Term of patent 7 years.



An ornamental design for a gaseous fuel burner support as shown.

54,950. DIAL FOR TIMEPIECES. HENRY S. MONTGOMERY, Topeka, Kans. Filed Dec. 23, 1918. Serial No. 268,110. Term of patent 14 years.



The ornamental design for a dial for timepieces, as shown.

54,951. CONTAINER. JAMES C. MORRISON, Highland Park, Mich., assignor to Nyal Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 20, 1918. Serial No. 267,720. Term of patent 14 years.



The ornamental design for a container, substantially as shown.

54,952. LIGHT. OLLIE COX NEWTON, Carterville, Ga. Filed Oct. 22, 1918. Serial No. 259,277. Term of patent 3½ years.



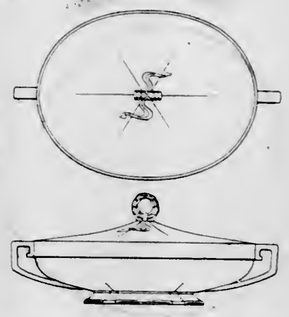
The ornamental design for a light, as shown.

54,953. NECKTIE. WALTER DAVID NIEDERER, Prescott, Ariz. Filed Dec. 6, 1918. Serial No. 265,647. Term of patent 14 years.



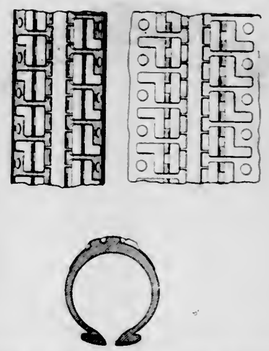
The ornamental design for a necktie, as shown.

54,954. DISH. DENHAM GRINDLEY NORMAN, Stoke-upon-Trent, England, assignor to William S. Pitcairn Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 9, 1919. Serial No. 322,760. Term of patent 7 years.



The ornamental design for a dish as shown.

54,955. AUTOMOBILE-TIRE. PAUL P. PARKER, Indianapolis, Ind., assignor to Parker Tire & Rubber Company, Indianapolis, Ind., a Corporation. Filed Dec. 20, 1919. Serial No. 346,393. Term of patent 14 years.



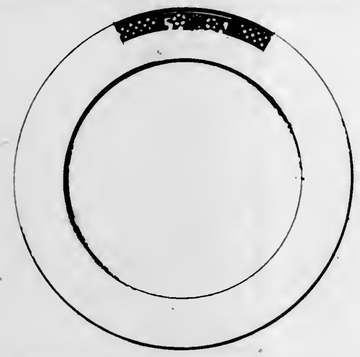
The ornamental design for an automobile tire, as shown.

54,956. INDIVIDUAL ICE-CREAM-SERVICE CONTAINER. JOHN P. REILY, St. Louis, Mo. Filed Nov. 24, 1919. Serial No. 340,417. Term of patent 14 years.



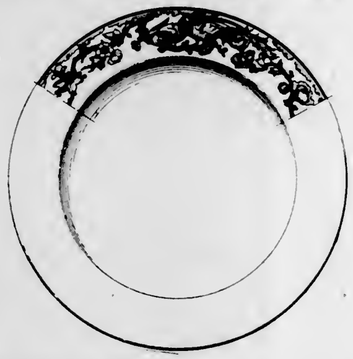
The ornamental design for an individual ice cream service container, as shown.

54,957. DISH OR SIMILAR ARTICLE. EDWARD JOHN RIDGWAY, Staten Island, N. Y. Filed Nov. 18, 1919. Serial No. 338,974. Term of patent 7 years.



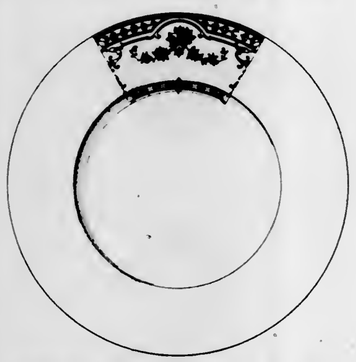
The ornamental design for a dish or similar article, substantially as shown.

54,958. DISH OR SIMILAR ARTICLE. EDWARD JOHN RIDGWAY, Staten Island, N. Y. Filed Nov. 18, 1919. Serial No. 338,975. Term of patent 7 years.



The ornamental design for a dish or similar article, substantially as shown.

54,959. DISH OR SIMILAR ARTICLE. EDWARD JOHN RIDGWAY, Staten Island, N. Y. Filed Nov. 18, 1919. Serial No. 338,976. Term of patent 7 years.



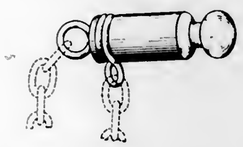
The ornamental design for a dish or similar article, substantially as shown.

54,960. GARMENT-HANGER. HERMAN E. SCHNEIDER, Pound, Wis. Filed Jan. 23, 1919. Serial No. 272,785. Term of patent 14 years.



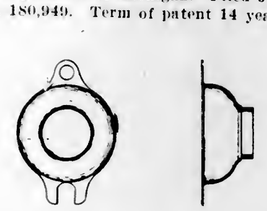
The ornamental design for a garment hanger, as shown.

54,961. FASTENER. WILLIAM ANTON SCHULER, New York, N. Y. Filed July 2, 1919. Serial No. 308,337. Term of patent 14 years.



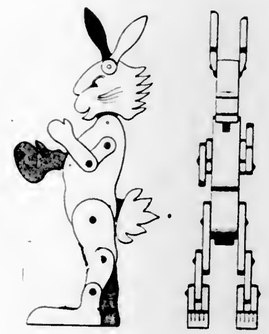
The ornamental design for a fastener, as shown.

54,962. PUSH-BUTTON. CARL J. SCHWARZE, Adrian, Mich., assignor to Schwarze Electric Company, Adrian, Mich., a Corporation of Michigan. Filed July 16, 1917. Serial No. 180,949. Term of patent 14 years.



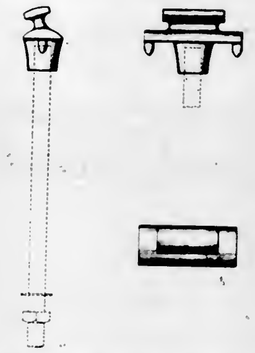
The ornamental design for a push-button, substantially as shown.

54,963. TOY. MILDRED E. SHUGG, Brooklyn, N. Y. Filed Oct. 6, 1919. Serial No. 328,915. Term of patent 14 years.



The ornamental design for a toy as shown.

54,964. HEAD OF A BOLT FOR WINDOW-FRAMES. WILLIAM W. SLEIGHT, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,336. Term of patent 14 years.



An ornamental design for a head of a bolt for window frames.

54,965. HOLDFAST FOR WINDOW-FRAMES. WILLIAM W. SLEIGHT, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,338. Term of patent 14 years.



An ornamental design for a holdfast for window frames, as shown.

54,966. HOLDFAST FOR WINDOW-FRAMES. WILLIAM W. SLEIGHT, Chicago, Ill. Filed Oct. 30, 1919. Serial No. 334,542. Term of patent 14 years.



An ornamental design for a holdfast for window frames, as shown.

54,967. ARTICLE OF GLASSWARE. CARL P. SOLLMANN, Jersey City, N. J. Filed Nov. 17, 1919. Serial No. 338,772. Term of patent 7 years.



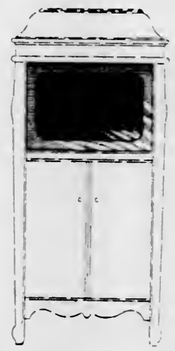
The ornamental design for an article of glassware as shown and described.

54,968. ARTICLE OF MANUFACTURE—NAMELY, A SCREEN FOR SOUND-OUTLETS OF GRAPHOPHONES. WILLIAM A. SOMMERHOF, Erie, Pa. Filed Nov. 19, 1918. Serial No. 263,224. Term of patent 14 years.



The ornamental design for an article of manufacture, namely a screen for sound outlets of graphophones, as shown.

54,969. ARTICLE OF MANUFACTURE—NAMELY, A SCREEN FOR SOUND-OUTLETS OF GRAPHOPHONES. WILLIAM A. SOMMERHOF, Erie, Pa. Filed Nov. 19, 1918. Serial No. 263,225. Term of patent 14 years.



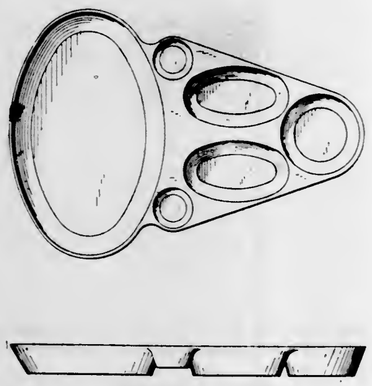
The ornamental design for an article of manufacture, namely, a screen for sound outlets of graphophones, as shown.

54,970. SHIRT. CHARLES LEON TALBOT, Chicago, Ill., assignor to Frank V. Corns, Chicago, Ill. Filed Feb. 27, 1919. Serial No. 279,602. Term of patent 14 years.



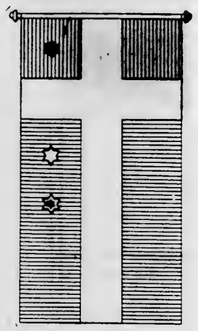
The ornamental design for a shirt as shown.

54,971. COMBINATION DINNER-TRAY. JOSEPH H. THOMPSON, Joplin, Mo. Filed Dec. 3, 1919. Serial No. 342,271. Term of patent 14 years.



The ornamental design for a combination dinner tray, as shown.

54,972. CHRISTIAN-SERVICE FLAG. ARTHUR G. TRIMBLE, Pittsburgh, Pa. Filed Feb. 28, 1919. Serial No. 279,896. Term of patent 14 years.



The ornamental design for a Christian service flag, as shown.

54,973. WEDDING-RING. CHARLES LINCOLN TROUT, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,777. Term of patent 14 years.



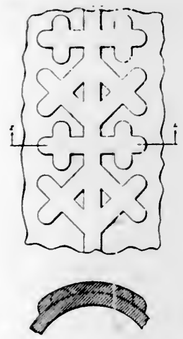
The ornamental design for a wedding ring as shown.

54,974. WEDDING-RING. CHARLES LINCOLN TROUT, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,778. Term of patent 14 years.



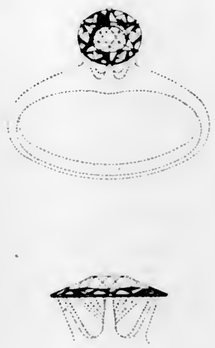
The ornamental design for a wedding ring as shown.

54,975. TIRE-TREAD. CHARLES J. VENN, Chicago, Ill. Filed Nov. 25, 1919. Serial No. 340,686. Term of patent 14 years.



The ornamental design for a tire tread, substantially as shown.

54,976. GEM-MOUNTING. CHARLES T. WITTSTEIN, Newark, N. J. Filed Nov. 12, 1919. Serial No. 337,618. Term of patent 14 years.



The ornamental design for a gem mounting, as shown.

54,977. BOTTLE. JAMES MORRISON, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed May 24, 1919. Serial No. 299,670. Term of patent 14 years.



The ornamental design for a bottle, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 20, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 83,780. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) THE NATIONAL HAME & CHAIN CO., New Albany, Ind. Filed Jan. 11, 1915.



No claim is made to any of the words on the drawing except in the association shown.

Particular description of goods.—Hames.

Claims use since April, 1898.

Ser. No. 99,947. (CLASS 32. FURNITURE AND UPHOLSTERY.) STEINFELD BROS., New York, N. Y. Filed Dec. 14, 1916.

CRIB-KAR

Particular description of goods.—Wheeled Children's Beds and Cribs.

Claims use since December, 1915.

Ser. No. 101,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LONGMONT FARMERS MILLING & ELEVATOR CO., Longmont, Colo. Filed Feb. 3, 1917.



Particular description of goods.—Wheat-Flour.

Claims use since May 1, 1913.

Ser. No. 107,923. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BOWDEN WIRE LIMITED, Willesden Junction, London, England. Filed Dec. 13, 1917.

BOWDENSILVER

Consisting of the word "Bowdensilver."

Particular description of goods.—Spiral Wire and Like Flexible Members in the Nature of a Flexible Tube or Shaft for Power-Transmission and other Purposes.

Claims use since February, 1907.

Ser. No. 108,253. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. KRAFT & BROS. CO., Chicago, Ill., and New York, N. Y. Filed Jan. 2, 1918.

ELKHORN

Particular description of goods.—Cheese.

Claims use since October, 1909.

Ser. No. 109,186. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WEINTHROP COMPANY, Chicago, Ill. Filed Feb. 23, 1918.

Robinson Crusoe

Particular description of goods.—Games.

Claims use since Jan. 31, 1918.

Ser. No. 109,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN A. ABBOTT, Wilkes-Barre, Pa. Filed Apr. 4, 1918.

KING



Particular description of goods.—A Chemical Preparation for the Removal of Metal from Oxid Formed When Metal is Heated to a White Heat, as for the Purpose of Rolling, Casting, or Annealing.

Claims use since the 20th day of December, 1917.

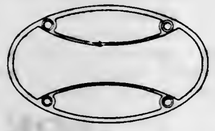
Ser. No. 112,322. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE MONUMENT POTTERY CO., Trenton, N. J. Filed July 25, 1918.



MONUMENT

Particular description of goods. — Bathtubs, Shower-Baths, Lavatory-Basins, Closet-Bowls, Flushing-Tanks, Sinks, Drinking-Fountains for Human Beings, Urinals, Front and Partition Slabs for Urinal-Stalls, Water-Closets.
Claims use since 1897.

Ser. No. 113,160. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) INDIANA TRUCK CORPORATION, Marion, Ind. Filed Sept. 13, 1918.



Particular description of goods.—Motor-Trucks.
Claims use since May, 1918.

Ser. No. 113,492. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MASCHINEN-FABRIK SCHWEITER A.-G., Horgen, Switzerland. Filed Sept. 30, 1918.



Particular description of goods.—Machine Tools and Apparatus and Tools for Metal-Working—Namely, All Sorts of Drilling and Boring Machines, Screw-Cutting and Drilling Apparatus, Dividing-Heads, Counter-Shafts, Bearings, Pulleys, Toothed Wheels, Gearing, Belt-Shifters.
Claims use since May 18, 1918.

Ser. No. 113,749. (CLASS 12. CONSTRUCTION MATERIALS.) THE PHILIP CAREY MANUFACTURING COMPANY, Lockland, Ohio. Filed Oct. 16, 1918.

Carey

Particular description of goods.—Roofing Composed in Whole or in Part of Felted Materials, Wool Felt, Roofing-Paper, Woven Materials, Bituminous Materials, Compound of Bituminous and other Materials or a Combination in Whole or in Part of Any Two or More of Said Materials, Prepared Rolled Roofing, Prepared Roofing-Shingles, Prepared Roofing-Strip Shingles, Sheathing-Papers; Sound-Deadening Materials—Namely, Asbestos, Magnesia, Rag Felt, Hair Felt, Cork, Fiber, or a Composition of Two or More of Said Materials; Heat and Cold Insulating Materials—Namely, Asbestos, Magnesia, Rag Felt, Hair Felt, Cork, Fiber, or a Composition of Two or More of Said Materials; Steam Pipe and Boiler Insulation Materials and other Heat-Insulation Materials, Asbestos Heat-Insulation Materials, Magnesia Heat-Insulation Materials; Waterproofing Materials and Damp-Proofing Materials—Namely, Saturated Papers, Saturated Felts, Saturated Woven Materials, Composition Boards of Saturated Felt and Bituminous Materials; Materials Having Waterproofing, Water-Resisting or Damp-Resisting Qualities for Application to Masonry Surfaces, Foundations, Walls, Roofs, Floors, Concrete Work, Brick, Stone, Stucco, or Tile; Saturated Waterproof Felts, Waterproof Woven Fabrics, or a Composition of Two or More of Said Materials; Asphalt Pitch, Coal-Tar Pitch, Expansion Street-Paving Joint, Expansion Joint for Cement Work; Street-Dressing Containing Tar, Asphalt, Crude Oil, or Oil Residuum; Fireproofing Cements, Stove-Lining Cements.
Claims use since about Mar. 3, 1918.

Ser. No. 114,375. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD CO., Boston, Mass. Filed Nov. 26, 1918.

EDUCATOR

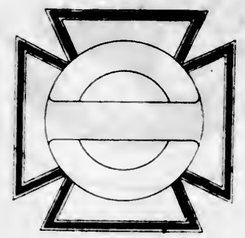
The word "Educator."
Particular description of goods.—Peanut-Butter and Cereal Coffee.
Claims use since September, 1897, on peanut-butter and since Mar. 15, 1890, on cereal coffee.

Ser. No. 114,480. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LESLIE ARCHIBALD SCANDRETT, Sydney, New South Wales, Australia. Filed Dec. 4, 1918.

LAS

Particular description of goods.—Hides, Skins, and Raw Furs.
Claims use since Feb. 1, 1918.

Ser. No. 114,967. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN LA FRANCE FIRE ENGINE CO., INC., Elmira, N. Y. Filed Jan. 3, 1919.



No claim is made to the use of the mark printed in red or on a red background in such manner as to simulate the emblem, sign, or insignia of the Red Cross referred to in the act to incorporate the American Red Cross, approved Jan. 5, 1905, as amended June 23, 1910.
Particular description of goods.—Respirators, Respirator-Masks, Respirator-Hoods, Emergency-Hoods; Helmets for Protection Against Smoke, Dust, Gas or Chemical Fumes; Sand-Blast Helmets, Asbestos Helmets, Acid-Hoods, Babbitting-Masks, Pure-Air Helmets; Pure-Air Hoods, Pure-Air Masks, First-Aid Cabinets and Kits; First-Aid Equipment—Namely, Examining-Tables, Irrigator and Solution Stands, Stretchers, Chairs, Stands, and Beds, and First-Aid Supplies and Accessories—Namely, Absorbent Cotton, Gauze, Bandages, Gauze for Surgical Purposes, Surgical Tweezers, Eye-Cups, Surgical Splints, and Tongue-Depressors.
Claims use since Aug. 20, 1918.

Ser. No. 115,031. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VICTOR WATER MOTOR CORPORATION, New York, N. Y. Filed Jan. 7, 1919.

NEPTUN

Particular description of goods.—Water-Motors.
Claims use since Dec. 1, 1918.

Ser. No. 115,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED L. WOODILL, Riverside, Calif. Filed Jan. 18, 1919.

PARENT TREE BRAND

No exclusive claim to the use of the word "Brand" apart from the mark as shown is claimed.
Particular description of goods.—Fresh Oranges.
Claims use since Aug. 1, 1916.

Ser. No. 115,567. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DRIVER-HARRIS COMPANY, Harrison, N. J. Filed Feb. 1, 1919.

Mangaloy

Particular description of goods. — Wire and Metallic Strips of an Alloy Containing Manganese and Highly Resistant to Oxidation.
Claims use since Jan. 17, 1919.

Ser. No. 115,798. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOOTT MILLS, Lowell, Mass. Filed Feb. 12, 1919.



The trade-mark consists of a rooster such as shown in the drawing and in the specimens.
Particular description of goods.—Cotton Piece Goods.
Claims use since 1853.

Ser. No. 115,972. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CLINTON WIRE CLOTH COMPANY, Boston, Mass., assignor to Clinton-Wright Wire Company, a Corporation of Masachusetts. Filed Feb. 19, 1919.

GRACO

Particular description of goods.—Wire-Cloth and Fencing Composed of Iron Wire.
Claims use since on or about Oct. 26, 1918.

Ser. No. 116,015. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed Feb. 19, 1919.

DURACORD
HARD SERVICE CABLE

No claim being made for the words "Hard Surface Cable" apart from the mark shown in the drawing.
Particular description of goods.—Electric Portable Cables.
Claims use since on or about the 7th day of February, 1919.

Ser. No. 116,018. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALL-AMERICAN TRUCK COMPANY, Chicago, Ill. Filed Feb. 20, 1919.



No claim being made to the words "All-American" except as associated with the mark shown herein. This disclaimer does not in any way affect the applicant's common-law right in the mark.

Particular description of goods.—Motor-Trucks.

Claims use since Mar. 25, 1918.

Ser. No. 116,157. (CLASS 17. TOBACCO PRODUCTS.) FRISHMUTH BRO. & COMPANY, INCORPORATED, Philadelphia, Pa. Filed Feb. 26, 1919.

GREEN GOOSE



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.

Claims use since about Jan. 1, 1903.

Ser. No. 116,357. (CLASS 2. RECEPTACLES.) ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Mar. 7, 1919.



No claim is made herein to the words "A. P. W. Paper Co., Albany, N. Y. U. S. A." as a technical trade-mark apart from the mark shown in the drawings.

Particular description of goods.—Dispensing-Cabinets for Paper Towels or Toilet-Papers.

Claims use since Jan. 1, 1904, and since Feb. 6, 1914.

Ser. No. 116,427. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RELIANCE FUR DYEING INC., Paterson, N. J. Filed Mar. 8, 1919.



No claim is made to the use of the words "Hudson Sealine" apart from the mark.

Particular description of goods.—Raw Furs.

Claims use since Jan. 2, 1919.

Ser. No. 116,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALES & EDWARDS COMPANY, Chicago, Ill. Filed Mar. 14, 1919.



The applicant hereby disclaiming the illustration or figure of the head of a calf, except as used in connection with the other features of the mark.

Particular description of goods.—Mixed Grain Feeds for Calves and Pigs.

Claims use since on or about the middle of October, 1914.

Ser. No. 116,576. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KULLMAN, SALZ & CO., San Francisco, Calif. Filed Mar. 14, 1919.

EL-KA-LI

Particular description of goods.—Hides and Leather.

Claims use since the latter part of the year 1906.

Ser. No. 116,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERITONE MEDICINE CO., Nashville, Tenn. Filed Mar. 25, 1919.

MERITONE

Particular description of goods.—A Tonic for Nervousness, Indigestion, and General Debility.

Claims use since Nov. 20, 1918.

Ser. No. 117,024. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed Mar. 29, 1919.

DURA-SET

Particular description of goods.—Insulated-Wire Conductors.

Claims use since on or about Mar. 17, 1919.

Ser. No. 117,148. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN J. ZOFSAK, Greensburg, Pa. Filed Apr. 3, 1919.



The signature "John J. Zofsak" shown as forming part of the trade-mark is the facsimile signature of the applicant.

Particular description of goods.—A Hair-Grower for Restoring Falling Hair, Preventing Itching of the Scalp, Removing Dandruff, and Treating Eczema.

Claims use since Mar. 1, 1919.

Ser. No. 117,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. A. ROGERS CO., Newark, N. J. Filed Apr. 5, 1919.

SARCO

Particular description of goods.—Scratch Food for Poultry, Mash for Poultry, Baby-Chick Scratch, Baby-Chick Mash.

Claims use since Jan. 1, 1919.

Ser. No. 117,242. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Apr. 7, 1919.

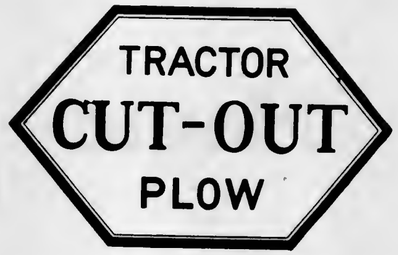


No claim being made herein for the words appearing upon the shield.

Particular description of goods.—Complexion-Cream.

Claims use since on or about Sept. 1, 1918.

Ser. No. 117,306. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ERNEST E. SOWELL, Sacramento, Calif. Filed Apr. 9, 1919.



No claim being made to the use of the words "Tractor" and "Plow" other than in connection with the mark shown.

Particular description of goods.—Plows.

Claims use since Feb. 1, 1919.

Ser. No. 117,545. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES HENRY WORSNOP, Halifax, England. Filed Apr. 16, 1919.

ALKLUM

Particular description of goods.—A Chemical Preparation Used as an Electrolyte in Electrical Accumulators.

Claims use since Oct. 27, 1911.

Ser. No. 117,655. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRE BROS. & CO. LIMITED, Leicester, England. Filed Apr. 21, 1919.



Particular description of goods.—Elastic Webs.

Claims use since Dec. 1, 1917.

Ser. No. 117,656. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRE BROS. & CO. LIMITED, Leicester, England. Filed Apr. 21, 1919.



Particular description of goods.—Elastic Webs.

Claims use since Dec. 3, 1917.

Ser. No. 117,787. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) VULCA LABORATORIES, San Francisco, Calif. Filed Apr. 23, 1919.



No claim is made to the representation of a tire, and the words "Patch" and "The Patch That Seals" apart from the mark shown in the drawing.

Particular description of goods.—A Self-Vulcanizing Patch Employed in Mending Automobile-Tires.

Claims use since August, 1918.

Ser. No. 117,981. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE KORKET COMPANY, Detroit, Mich. Filed Apr. 29, 1919.

KORKET

Particular description of goods.—Flush-Tank Outlet-Valves.

Claims use since Sept. 10, 1918.

Ser. No. 119,275. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MICHIGAN LUBRICATOR COMPANY, Detroit, Mich. Filed June 6, 1919.



Particular description of goods.—Sediment-Traps, Tank-Filler Flanges, Tubing and Pipe Couplings, Hot-Water Valves, Steam-Valves, Gage-Cocks, Connectors for Flexible Metallic Tubing, Flanges for Gasolene-Tanks, and Pipe-Fittings—viz., Elbows, Unions, T's, Pipe-Flanges, Nozzles, Drain-Cocks, Air-Cocks, Plug-Nipples, Bushings, Crosses, and Pipe-Caps.
Claims use since Oct. 8, 1918.

Ser. No. 119,458. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERMONT MAPLE SYRUP COMPANY, INC., Essex Junction, Vt. Filed June 10, 1919.

MAPLE GROVE

The words "Maple Grove."
Particular description of goods.—Maple Table-Syrup.
Claims use since Apr. 22, 1919.

Ser. No. 119,707. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) IMPERIAL BELTING COMPANY, Chicago, Ill. Filed June 17, 1919.

IBECO

Particular description of goods.—Rubber Belting, Duck Belting, Rubber Hose, Duck Hose, Rubber Machinery Packing, Flax Machinery Packing, and Asbestos Machinery Packing.
Claims use since May 20, 1919.

Ser. No. 120,030. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) R. BROWNSON & COMPANY, Hastings, Minn. Filed June 28, 1919.

ACORN

Particular description of goods.—Nose-Guards for Animals, Particularly Horses.
Claims use since on or about January, 1913.

Ser. No. 120,225. (CLASS 2. RECEPTACLES.) JOHN SINGLE, Syracuse, N. Y. Filed July 2, 1919.



Particular description of goods.—Paper Bags.
Claims use since about the 1st of June, 1919.

Ser. No. 120,226. (CLASS 2. RECEPTACLES.) JOHN SINGLE, Syracuse, N. Y. Filed July 2, 1919.



Particular description of goods.—Paper Bags.
Claims use since about the 1st of June, 1919.

Ser. No. 120,227. (CLASS 2. RECEPTACLES.) JOHN SINGLE, Syracuse, N. Y. Filed July 2, 1919.



Particular description of goods.—Paper Bags.
Claims use since about the 1st of June, 1919.

Ser. No. 120,430. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERT PLATT & Co., Wichita, Kans. Filed July 10, 1919.

Magic

Particular description of goods.—A Decarbonizer for the Cylinders of Automobile-Engines.
Claims use since Aug. 1, 1917.

Ser. No. 120,461. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KENT & PURDY PAINT COMPANY, St. Louis, Mo. Filed July 11, 1919.

EXCELSIOR

Particular description of goods.—Paints, Pigments, Colors Ground in Japan, Colors Ground in Oil, Oil Stains, Liquid and Paste Wood-Fillers.
Claims use since about the year 1873.

Ser. No. 120,602. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ANTON DESPOL, Palo Alto, Calif. Filed July 16, 1919.



Applicant hereby disclaims the use of the words "Brand" and "Trade-Mark" apart from the mark shown in the drawing.
Particular description of goods.—Auto-Body Polish.
Claims use since July 1, 1918.

Ser. No. 121,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STERN MILLING COMPANY, INC., Milwaukee, Wis. Filed July 28, 1919.



Particular description of goods.—Rye-Flour.
Claims use since Apr. 25, 1919.

Ser. No. 121,066. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & Co., Prague, Bohemia. Filed July 29, 1919.

WECO

Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Safety-Pins, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Snap-Fasteners, Thimbles, Straight Solid-Headed Pins for Personal Use, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.
Claims use since Jan. 7, 1909.

Ser. No. 121,067. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & Co., Prague, Bohemia. Filed July 29, 1919.

OTELLO

Particular description of goods.—Placket-fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Safety-Pins, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Thimbles, Straight Solid-Headed Pins for Personal Use, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.
Claims use since July 8, 1909.

Ser. No. 121,378. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ASSOCIATED DAIRYMEN OF CALIF. INC., San Francisco, Calif. Filed Aug. 8, 1919.

Cream o' Gold

Particular description of goods.—Dairy Products—Namely, Butter, Casein, Sugar of Milk, Cheese, Canned Milk, Canned Cream, Certified Milk, Ice-Cream, Fresh Milk, Canned Evaporated Milk, Condensed Milk, Powdered Milk, Powdered Skim-Milk, Buttermilk and Powdered Buttermilk, Malted Milk, Milk-Chocolate.
Claims use since July 9, 1919.

Ser. No. 121,553. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHANN A. WÜLFING, Berlin, Germany. Filed Aug. 11, 1919.

Kalzan

Particular description of goods.—Pharmaceutical Chalk Product in Tablet Form for Internal Use.
Claims use since Nov. 12, 1909.

Ser. No. 121,566 (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE CRAWFORD McGREGOR & CANBY COMPANY, Dayton, Ohio. Filed Aug. 12, 1919. Under ten-year proviso.

DAYTON
LAST
WORKS

Particular description of goods.—Shoe-Lasts.
Claims use since about the 1st day of January, 1879.

Ser. No. 121,639. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RANDELL-MCLOUGHLIN CO., Seattle, Wash. Filed Aug. 13, 1919.

INVICTA

Particular description of goods.—Agricultural Seeds—Namely, Grain-Seeds and Grass Seeds, and Nursey Stock—Namely, Trees, Plants, and Flowers.
Claims use since Feb. 1, 1918.

Ser. No. 121,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. MCKENNA, Fresno, Calif. Filed Aug. 21, 1919.

3 VETERINARIANS

No claim is made to the use of the word "Veterinarians" apart from the mark shown in the drawing.
Particular description of goods.—Liniments for Wrenches, Sprains, Bruises, Swellings, Enlargments, Sore Throat, Sore Tendons, Pneumonia, and Pleurisy; Antiseptic and Germicidal Washes and Lotions, Healing-Powder; Cow and Horse Physic for Dysentery, Bloody Discharges, Indigestion, and Inflammation of the Bowels: Blood-Regulators and General Tonics for Horses and Cows; Cough Mixture for Coughs, Sore Throat, Nasal Discharge, Colds, and Distemper, and Ointments and Salves for Sore Teats, Sore Udders and Cowpox for Cows, and Rope Burns, Sore Backs and Necks, and Cuts or Wounds for Horses.
Claims use since the 3d day of June, 1919.

Ser. No. 122,086. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SELZNICK PICTURES CORPORATION, New York, N. Y. Filed Aug. 28, 1919.

SELZNICK

Particular description of goods.—Motion-Picture Films.
Claims use since Aug. 20, 1919.

Ser. No. 122,322. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN ENAMEL COMPANY, Providence, R. I. Filed Sept. 5, 1919.

Ivoryd TRADE MARK

The trade-mark consisting of the word "Ivoryd" as shown in the accompanying drawing. No claim is made for the exclusive right to the words "Trade Mark" shown in the drawing.
Particular description of goods.—Enameled Handles, Knobs, Pulls.
Claims use since Aug. 8, 1919.

Ser. No. 122,634. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FORD MICA COMPANY, INC., New York, N. Y. Filed Sept. 13, 1919.

N.Y. F.M.C. N.Y.

No claim is made to the abbreviation "N. Y." apart from the mark shown in the drawing.
Particular description of goods.—Spark-Plugs.
Claims use since July 1, 1919.

Ser. No. 122,715. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MORRIS & YEOMANS LIMITED, Redditch, England. Filed Sept. 15, 1919.



Particular description of goods.—Hand-Needles, Hatpins Not Made of Precious Metal, Toilet-Pins, Safety-Pins, Hairpins, Button-Hooks Not Made of Precious Metal, Knitting-Pins, Crochet-Hooks, and Needle-Cases.
Claims use since May 30, 1861.

Ser. No. 122,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA J. TETLOW, Philadelphia, Pa. Filed Sept. 16, 1919.

BLUE MOON

Particular description of goods.—Perfume, Face-Powder, Talcum Powder, Rouge, Compact, Face-Powder, Sachet-Powder, Toilet Water, Cold-Cream for the Skin, and Shampoo Preparation.
Claims use since Oct. 7, 1911.

Ser. No. 122,880. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUTTERICK PUBLISHING COMPANY, New York, N. Y. Filed Sept. 19, 1919.

THE HOME SECTOR

Particular description of goods.—A Weekly Periodical or Magazine.
Claims use since Sept. 8, 1919.

Ser. No. 123,009. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE SAMUEL WINSLOW SKATE MFG. CO., Worcester, Mass. Filed Sept. 22, 1919.

VICTORY

Particular description of goods.—Ice-Skates.
Claims use since Sept. 1, 1919.

Ser. No. 123,090. (CLASS 37. PAPER AND STATIONERY.) THE WHITAKER PAPER COMPANY, Cincinnati, Ohio. Filed Sept. 24, 1919.

Duo Tone

Particular description of goods.—Cover-Paper.
Claims use since June 1, 1919.

Ser. No. 123,198. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILL S. JUDY, Lexington, Ky. Filed Sept. 26, 1919.



The signature "W. S. Judy" is the facsimile signature of the applicant.
Particular description of goods.—Tobacco-Seed.
Claims use since the 1st day of March, 1912.

Ser. No. 123,398. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PUREPAKT PRODUCTS COMPANY, Washington, Ind. Filed Oct. 3, 1919.

Purepakt

Particular description of goods.—Canned Hominy, Pork and Beans, Red Kidney-Beans, Pinto-Beans, Red Beans, Tomatoes, Tomato Purée, Pumpkin, and Apple-Butter.
Claims use since Apr. 1, 1918.

Ser. No. 123,497. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLIAM C. PRITCHARD, Lancaster, Pa. Filed Oct. 7, 1919.

PRITCHARD

The phrase "Dependable Quality" appearing on the mark is hereby disclaimed, and applicant makes no claim to the use of said words in the mark.
Particular description of goods.—Computing-Scales, Measuring-Pumps.
Claims use since about Aug. 15, 1919.

Ser. No. 123,528. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 7, 1919.



No claim being made to the exclusive use of the picture of the razor-blade apart from the mark shown in the drawing.
Particular description of goods.—Razor-Blades.
Claims use since Sept. 23, 1919.

Ser. No. 123,732. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) W. L. FLEISHER & CO., INC., New York, N. Y. Filed Oct. 13, 1919.



The representation of the gear-wheel and the words "Engineering Systems" apart from the mark as shown by the drawing are disclaimed.
Particular description of goods.—Air-Conditioning Apparatus Used for Supplying Treated Air to Office and Factory Buildings and Work-Rooms Where Such Air is Required, Air-Driers of All Kinds Used for Drying Leather, Vegetables, Paint, Desiccation of Liquids of All Kinds, and Drying Materials Such That Contain Moisture, and Steam-Heating Apparatus Used in Connection with Air-Conditioning, Air-Drying, and Heat-Supply Systems for Buildings and Factories.
Claims use since May, 1917.

Ser. No. 123,827. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) URBAN URBANY, San Diego, Calif. Filed Oct. 15, 1919.

U-BAND

Particular description of goods.—Chilli Food Composed Principally of Meat, Pepper, and Flour.
Claims use since the 1st day of October, 1918.

Ser. No. 123,893. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HALL & PICKLES LIMITED, Manchester, England. Filed Oct. 17, 1919.

HYDRA

Particular description of goods.—Steel for Tools and Iron and Steel in the Form of Pigs, Ingots, Billets, Rails, Bars, Rods, Hoops, Sheets, Plates, Angles, and other Forms in Which Iron and Steel are Supplied to Engineers, Machine-Makers, and Shipbuilders.
Claims use since about the year 1888.

Ser. No. 123,942. (CLASS 17. TOBACCO PRODUCTS.) STANDARD EXPORT CIGARETTE CORPORATION, New York, N. Y. Filed Oct. 18, 1919.

STANDEX

Particular description of goods.—Cigarettes.
Claims use since Oct. 15, 1919.

Ser. No. 123,973. (CLASS 39. CLOTHING.) JOSEPH ECKSTEIN, New York, N. Y. Filed Oct. 20, 1919.

Joseck

Particular description of goods.—Ladies', Misses', and Children's Suits Consisting of Skirts and Jackets, Coats, Waists, Dresses, and Skirts.
Claims use since Sept. 22, 1919.

Ser. No. 124,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. MENIST COMPANY, INC., New York, N. Y. Filed Oct. 20, 1919.

Menist

Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since Jan. 1, 1909.

Ser. No. 124,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL SCHLUP, Cambridge, Ohio. Filed Oct. 20, 1919.

MUS CURA

The drawing is lined for the color blue.
Particular description of goods.—An Ointment to be Used in the Treatment of La Grippe, Colds, Inflammation, Congestion.
Claims use since Aug. 1, 1919.

Ser. No. 124,038. (CLASS 39. CLOTHING.) BERKSHIRE SHIRT CO., New York, N. Y. Filed Oct. 21, 1919.

ADJUSTO

Particular description of goods.—Pajamas.
Claims use since September, 1919.

Ser. No. 124,066. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BALDWIN CHAIN AND MANUFACTURING COMPANY, Worcester, Mass. Filed Oct. 22, 1919.

BALDWIN

Particular description of goods.—Power-Transmission or Drive Chains for Motor-Trucks, &c.
Claims use since January, 1896.

Ser. No. 124,076. (CLASS 39. CLOTHING.) LEON F. RUBENS, Philadelphia, Pa. Filed Oct. 22, 1919.

ヤマトヤ
YAMATOYA

The Japanese characters denote an arbitrary fanciful term made up of the word "Yama"—a mountain—and the word "Toya"—an arrow which has come from afar. The word "Yamatoya" is an equivalent of the same.
Particular description of goods.—Dress, Negligée and Sport Shirts, Pajamas, Nightgowns, Kimonos, Underwear for Men and Women, of One and Two Piece Garments of Woven Fabric, and Shirtwaists, All of Silk and (or) Cotton.
Claims use since about Mar. 1, 1915.

Ser. No. 124,084. (CLASS 15. OILS AND GREASES.) DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del. Filed Oct. 20, 1919.

DESCO

Particular description of goods.—Lubricating Oils and Greases for Engines, Machinery, Automobiles, Gears, and Oil and Grease Cups.
Claims use since about 1889.

Ser. No. 124,098. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOHN C. DOLPH COMPANY, Newark, N. J. Filed Oct. 23, 1919.

CHINALAK

Particular description of goods.—Insulating Material—Namely, China Wood-Oil with Combinations of Semi-Fossil Gums to be Used in Connection with Dynamo and Motor Coils and other Electrical Windings.
Claims use since May 1, 1915.

Ser. No. 124,509. (CLASS 7. CORDAGE.) AMERICAN CORE-TWINE COMPANY, Boston, Mass. Filed Nov. 4, 1919.

Kraft-Fibre

No claim is made to the word "Fibre" apart from the mark shown in the drawing.
Particular description of goods.—Twine and Cordage.
Claims use since Oct. 29, 1919.

Ser. No. 124,562. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Nov. 5, 1919.



The said mark consists of the portrait of Sir William Crookes, deceased.
Particular description of goods.—Ophthalmic Lenses and Lenses for All Kinds of Optical and Scientific Instruments.
Claims use since Oct. 24, 1919.

Ser. No. 124,563. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Nov. 5, 1919.

William Crookes.

The mark consists of a facsimile signature of the distinguished scientist, Sir William Crookes, deceased.
Particular description of goods.—Ophthalmic Lenses and Lenses for All Kinds of Optical and Scientific Instruments.
Claims use since Oct. 24, 1919.

Ser. No. 124,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CORNO MILLS COMPANY, St. Louis, Mo. Filed Nov. 7, 1919.

-makes
kids
husky

Particular description of goods.—Rolled Oats.
Claims use since August, 1919.

Ser. No. 124,721. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LESHER WHITMAN & CO., INC., New York, N. Y. Filed Nov. 10, 1919.

PARISIAN BRILLIANTINES

No claim being made to the use of the words "Parisian" and "Brilliantines" apart from the mark shown in the drawing.
Particular description of goods.—A Fabric Made with a Cotton Warp and a Filling of Wool or Mohair or Alpaca, Singly or Combined.
Claims use since about 1908.

Ser. No. 124,736. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN A. SELBY, Camden, N. J. Filed Nov. 10, 1919.

"KLEENAHOUSE"

Particular description of goods.—A Liquid Polish for Pianos, Furniture, and other Painted or Varnished Surfaces.
Claims use since Jan. 15, 1909.

Ser. No. 124,738. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo. Filed Nov. 10, 1919.

WHEATCO

Particular description of goods.—Hog and Cattle Feed.
Claims use since Oct. 21, 1919.

Ser. No. 124,778. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) AUBURN BRUSH COMPANY, Auburn, Me. Filed Nov. 12, 1919.



Particular description of goods.—Dustpan - Brushes, Brooms, Floor-Sweepers, and Household Brushes.
Claims use since November, 1916.

Ser. No. 124,840. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE O. ARMLEDER CO., Cincinnati, Ohio. Filed Nov. 13, 1919.

ARMLEDER

Particular description of goods.—Automobile - Trucks, Wagons, Carts, Drays, and Vehicles—Namely, Trailers and Semitrailers.
Claims use since 1884.

Ser. No. 124,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE B & R LABORATORIES & MFG. CO. INC, Jersey City, N. J. Filed Nov. 14, 1919.

Prevenal

Particular description of goods.—Venereal Treatment.
Claims use since Sept. 23, 1919.

Ser. No. 124,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER CAILLER KOHLER SWISS CHOCOLATES CO. INC., New York, N. Y. Filed Nov. 14, 1919.

TRINADORA

Consisting of the word "Trinadora."
Particular description of goods.—Chocolates.
Claims use since Mar. 4, 1919.

Ser. No. 124,929. (CLASS 37. PAPER AND STATIONERY.) THE EDUCATIONAL SUPPLY COMPANY, Painesville, Ohio. Filed Nov. 15, 1919.

E·S·Co

Particular description of goods.—School-Report Cards, Class-Record Books, Excuse-Blanks, and School-Registers.
Claims use since Jan. 30, 1912.

Ser. No. 124,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN GALLAGHER, Auburn, Wash. Filed Nov. 15, 1919.

John Gallagher

The signature being the facsimile signature of the applicant.
Particular description of goods.—Medicinal Preparation for Catarrh, Asthma, and Bronchial Troubles.
Claims use since Jan. 1, 1917.

Ser. No. 124,969. (CLASS 15. OILS AND GREASES.) THADDEUS A. BURCH, Baltimore, Md. Filed Nov. 17, 1919.

OILOFINE

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Oct. 1, 1919.

Ser. No. 124,985. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GUARANTEE LIQUID MEASURE CO., Rochester, Pa. Filed Nov. 17, 1919.



No claim being made to the exclusive use of the words "Guarantee" and "Visible" and the representation of the characteristic feature of the pump apart from the mark as shown by the drawing.
Particular description of goods.—Liquid-Measuring Pumps.
Claims use since Jan. 1, 1919.

Ser. No. 125,004. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MERCHANT LOVEYS LEATHER CO., Boston, Mass. Filed Nov. 17, 1919.



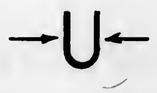
The word "Mel-O," no claim being made to the disk upon which appears the word "Mel-O."
Particular description of goods.—Leather.
Claims use since Jan. 1, 1919.

Ser. No. 125,038. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISAAC H. TAYLOR, Atlanta, Ga. Filed Nov. 17, 1919.

Taxon

Particular description of goods.—Liver-Pills.
Claims use since Apr. 1, 1917.

Ser. No. 125,039. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) UNCAS MANUFACTURING COMPANY, Providence, R. I. Filed Nov. 17, 1919.



Particular description of goods.—Finger-Rings, Pins, and Bracelets, All of Which are Made of or Plated with Precious Metal.
Claims use since Aug. 1, 1919.

Ser. No. 125,045. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) IWER BOYSEN, New York, N. Y. Filed Nov. 18, 1919.

ARTOGRAPH

Particular description of goods.—Photographic Retouching-Screens.
Claims use since May 22, 1918.

Ser. No. 125,057. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HARRY C. LEE & COMPANY, INC., New York, N. Y. Filed Nov. 18, 1919.

P.D.Q.

Applicant has adopted for its use the letters "P. D. Q."
Particular description of goods.—Golf-Balls.
Claims use since Oct. 31, 1917.

Ser. No. 125,122. (CLASS 39. CLOTHING.) H. OSTROWSKY CO., Chicago, Ill. Filed Nov. 20, 1919.

"HoscO"

Particular description of goods.—Sweaters, Hosiery; Men's, Women's, and Children's Underwear Made of Knitted Fabrics in One and Two Piece Garments; Men's, Boys', Ladies', and Children's Bathing-Suits, and Men's, Boys', Ladies', and Children's Knitted Headwear.
Claims use since Nov. 7, 1919.

Ser. No. 125,150. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. DAISY BURCH, Indianapolis, Ind. Filed Nov. 21, 1919.

"SEXO"

Particular description of goods.—Hair-Grower.
Claims use since Sept. 6, 1913.

Ser. No. 125,170. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HYMAN BAUMAN & CO., New York, N. Y. Filed Nov. 22, 1919.

KENMARRE

Consisting of the word "Kenmarre."
Particular description of goods.—Handkerchiefs.
Claims use since Nov. 19, 1919.

Ser. No. 125,198. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY THAYER & CO., INC., Cambridge, Mass. Filed Nov. 22, 1919.



Applicant disclaims exclusive right to the use of the word "Liniments," the trade-mark being in red.
Particular description of goods.—Liniment for Use in the External Treatment of Cramps, Stomach-Ache, Colic, Sore Throat, Sore and Stiff Muscles, Sprains, Lumbago, Neuralgic Pains, Chilblains, Stiff Neck, Cuts, Bruises, Headache, Chafes, Insect Bites and Stings, Burns and Scalds, and as a Gargle, Poultice, Stupe, or Vapor-Bath.
Claims use since Dec. 1, 1914.

Ser. No. 125,212. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN R. WATKINS, Norfolk, Va. Filed Nov. 22, 1919.



The words "Toilette, Trade-Mark, Face, Skin," being disclaimed.

Particular description of goods.—Hair-Tonic and Toilet Deodorant.

Claims use since Nov. 15, 1919.

Ser. No. 125,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT A. COURTNEY, Baltimore, Md. Filed Nov. 24, 1919.

CU-MOR

Particular description of goods.—Blood-Remedy Compound, Vegetable and Mineral.

Claims use since on or about May 10, 1919.

Ser. No. 125,240. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PENSLAR COMPANY, Detroit, Mich. Filed Nov. 24, 1919.

Mag-lac

Particular description of goods.—Dentifrices.

Claims use since Nov. 8, 1919.

Ser. No. 125,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD I. ROYNER, Philadelphia, Pa. Filed Nov. 24, 1919.

MILADY'S

Particular description of goods.—Hair-Cream.

Claims use since Nov. 1, 1919.

Ser. No. 125,261. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) W. L. TEDFORD, Little Rock, Ark. Filed Nov. 24, 1919.

"W. L. Tedford."

SUPER SERVICE PATCH

KEEP A KAN IN YOUR KAR"

The name "W. L. Tedford's" is a facsimile of the applicant's signature, no claim being made to the words "Super-Service Patch, Keep a Kan in Your Kar."

Particular description of goods.—Tires, Tubes, and Casing-Patch.

Claims use since Jan. 1, 1919.

Ser. No. 125,287. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAMAR TAYLOR & RILEY DRUG CO., Macon, Ga. Filed Nov. 25, 1919.



No claim is made to the name "Lamar's" and to the words "Skin-Cream" apart from the trade-mark as shown in the drawing.

Particular description of goods.—Skin-Cream.

Claims use since Jan. 1, 1907.

Ser. No. 125,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS, INC., New York, N. Y. Filed Nov. 25, 1919.

BRONKIES

Particular description of goods.—Medicinal Preparations for the Treatment of Affections of the Throat and Bronchial Tubes.

Claims use since May, 1919.

Ser. No. 125,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS INC., New York, N. Y. Filed Nov. 25, 1919.

ORAFORM

Particular description of goods.—Throat-Pastils.

Claims use since July, 1915.

Ser. No. 125,303. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RADWAY & CO., New York, N. Y. Filed Nov. 25, 1919.

'JELLFORM'

Consisting of the word "Jellform."

Particular description of goods.—A Preparation for the Treatment of Rheumatism, Lumbago, Sprains, Lame Back, Colds in Chest, Grippe, and Sore Throat.

Claims use since Nov. 20, 1919.

Ser. No. 125,338. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) W. E. NAGLE & SON, Pittsburgh, Pa. Filed Nov. 26, 1919.

WENSON

Particular description of goods.—Rivet-sets, Chisel-Blanks, Reamers, and Drills.

Claims use since about July 1, 1917.

Ser. No. 125,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. ZUBROD & CO., Louisville, Ky. Filed Nov. 26, 1919. Under ten-year proviso.

CUTIBALM

Particular description of goods.—Toilet Preparations for Treating the Skin.

Claims use since the 1st day of January, 1889.

Ser. No. 125,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS KALISH INC., New York, N. Y. Filed Nov. 28, 1919.

NOVALOL

Particular description of goods.—A Preparation Used as an Internal Lubricant for Internal Administration in Cases of Chronic Constipation, Mucous Colitis, Enteroptosis, and Intestinal Stasis.

Claims use since Feb. 15, 1913.

Ser. No. 125,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM LEV, Philadelphia, Pa. Filed Nov. 28, 1919.

LULEVKO'S

444

Particular description of goods.—A Medicine for Gout, Rheumatism, Lumbago, Neuralgia, Scald-Head, Erysipelas, and Diseases Arising from Impurities of the Blood.

Claims use since Sept. 4, 1919.

Ser. No. 125,425. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELLIOTT JACOBS, New Orleans, La. Filed Nov. 29, 1919.

JACO-LAX

Particular description of goods.—Medicine for Constipation.

Claims use since Oct. 1, 1919.

Ser. No. 125,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. E. LOUDENSLAGER, Littleton, W. Va. Filed Nov. 29, 1919.

Trade J.E.L. Mark

No claim is made for the words "Trade Mark" apart from the drawing as shown.

Particular description of goods.—Scalp-Treatment Liquid, Face-Treatment Liquid, Skin-Treatment Liquid, and Pile-Remedy Ointment.

Claims use since Nov. 26, 1919.

Ser. No. 125,530. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAPMAN & SMITH COMPANY, Chicago, Ill. Filed Dec. 3, 1919.



Particular description of goods.—Baking-Powder.

Claims use since May 15, 1887.

Ser. No. 125,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAPMAN & SMITH COMPANY, Chicago, Ill. Filed Dec. 3, 1919.

ROLLING PIN BRAND



No claim being made to the word "Brand."

Particular description of goods.—Almond Paste, Citron, Lemon-Peel, Orange-Peel, Ice-Cream Powder, Icing-Powders for Cakes and Pastry, Jams, Jellies, Marshmallow Powder for Meringue, Icings, Mince-Meat, Strawberry Preserves, Pie-Fillings, Spices, Glacé Fruits, Flavoring Extracts for Foods, Ice-Cream Fluff for Ice-Cream and Desserts.

Claims use since May 15, 1887.

Ser. No. 125,556. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. YOUNG, Columbus, Ga. Filed Dec. 3, 1919.



Particular description of goods.—An Ointment for External Use in Influenza, Pneumonia, Pleurisy, Tonsillitis, Bronchitis, and All Throat, Chest, and Lung Colds, Whooping-Cough, Mumps, Measles, and Rising Breast.
Claims use since February, 1919.

Ser. No. 125,621. (CLASS 12. CONSTRUCTION MATERIALS.) MURO WALL BOARD COMPANY, INC., Buffalo, N. Y. Filed Dec. 5, 1919.

MURO

Particular description of goods.—Wall-Board and Building-Paper.
Claims use since about the 13th day of November, 1919.

Ser. No. 125,631. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SERVICE STATION SUPPLY CO., Detroit, Mich. Filed Dec. 5, 1919.

Hyrate

Particular description of goods.—Electric-Battery-Cell Testers and Electric-Battery-Testing Instruments.
Claims use since January, 1919.

Ser. No. 125,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILMARTH AND RICE, Scranton, Pa. Filed Dec. 5, 1919.



Particular description of goods.—Wheat-Flour.
Claims use since Mar. 1, 1919.

Ser. No. 125,654. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) EXCELLO MAT COMPANY INC., New York, N. Y. Filed Dec. 6, 1919.



Particular description of goods.—Leather Table Mats and Runners.
Claims use since January, 1918.

Ser. No. 125,827. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE BRAY PICTURES CORPORATION, New York, N. Y. Filed Dec. 11, 1919.

OUT OF THE INK WELL

Particular description of goods.—Moving-Picture Films Showing Animated Drawings Issued Serially.
Claims use since June, 1918.

Ser. No. 125,836. (CLASS 37. PAPER AND STATIONERY.) THE FLEX-TIC SUPPLY COMPANY, Harris, Iowa. Filed Dec. 11, 1919.

Flex-Tic

Particular description of goods.—Auction-Sale Outfits Composed of Form-Printed Envelops, There Being Form-Printed Sheets and Reproducing Material and a Backing-Sheet Contained in Each Envelop.
Claims use since Jan. 8, 1919.

Ser. No. 125,874. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BAUSH MACHINE TOOL COMPANY, Springfield, Mass. Filed Dec. 12, 1919.



Particular description of goods.—Non-Ferrous Metal in the Form of Sheets, Castings, and Forgings.
Claims use since Aug. 16, 1919.

Ser. No. 125,917. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIOUX CANDY COMPANY, Sioux City, Iowa. Filed Dec. 12, 1919.

Merit

No claim is made to the word "Merit" apart from the mark shown in the drawing.
Particular description of goods.—Confectionery—Namely, Chocolates.
Claims use since Oct. 29, 1919.

Ser. No. 126,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHINSAKU NAGANO, Chicago, Ill. Filed Dec. 15, 1919.



No claim is made to the words "The Original" apart from the other features of the mark.
Particular description of goods.—Sauces for Seasoning Foods, Particularly Soy and Shoyu Sauces.
Claims use since Dec. 6, 1919.

Ser. No. 126,054. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) NORTHWESTERN BREWERS SUPPLY CO., Milwaukee, Wis. Filed Dec. 15, 1919.

NORWESCO

Particular description of goods.—Malt Syrup Used in the Preparation of Non-Alcoholic Malt Beverages Sold as Soft Drinks.
Claims use since Jan. 10, 1913.

Ser. No. 126,074. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE "SPEARMINTX" CO., Stillwater, Minn. Filed Dec. 15, 1919.

Spearmintx

Particular description of goods.—Non-Alcoholic Non-Intoxicating Maltless Non-Cereal Syrup Used in the Preparation of Beverages Sold as a Soft Drink.
Claims use since Nov. 1, 1914.

Ser. No. 126,115. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DESIGNERS INSTRUMENT COMPANY, Chicago, Ill. Filed Dec. 16, 1919.

"DESIGNO"

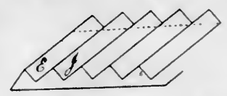
Particular description of goods.—Intermittent Fountain Ruling-Pens.
Claims use since January, 1914.

Ser. No. 126,154. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THERMOID RUBBER COMPANY, Hamilton township, Mercer county, N. J. Filed Dec. 16, 1919.



Particular description of goods.—Brake-Linings.
Claims use since Nov. 21, 1919.

Ser. No. 126,253. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDMOND JACKSON, Newport News, Va. Filed Dec. 19, 1919.



Particular description of goods.—Woven Textile or Fiber Floor-Mats.
Claims use since Dec. 2, 1919.

Ser. No. 126,282. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KWIKMIX MANUFACTURING CO. INC., New York, N. Y. Filed Dec. 20, 1919.

KWIKMIX

Particular description of goods.—Soft-Drink-Mixing Machines.
Claims use since August, 1919.

Ser. No. 126,306. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE CLEVELAND DENTAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Dec. 22, 1919.

Bi Sur.

Particular description of goods.—Dental Pliers, Forceps, and Rongeurs.
Claims use since Nov. 14, 1919.

Ser. No. 126,390. (CLASS 39. CLOTHING.) H. D. OVERALL CO., Washington, D. C. Filed Dec. 23, 1919.

IRON STRENGTH

Particular description of goods.—Overalls, Unionalls, and Jumpers.
Claims use since the 1st day of December, 1919.

Ser. No. 126,418. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES S. MCCARTHY, Jr., Sandusky, Ohio. Filed Dec. 24, 1919.



The word "Motor" being disclaimed apart from the mark as shown by the drawing.
Particular description of goods.—Cultivators.
Claims use since Nov. 3, 1919.

Ser. No. 126,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PRESTON CHEMICAL COMPANY, Brooklyn, N. Y. Filed Dec. 24, 1919.

PRESTINA

Particular description of goods.—Tablets in the Form of Aspirin and Phenacetin, Aspirin and Caffein, and Aspirin and Pepsin.
Claims use since Nov. 1, 1919.

Ser. No. 126,433. (CLASS 7. CORDAGE.) ZELLERBACH PAPER COMPANY, San Francisco, Calif. Filed Dec. 24, 1919.



No claim being made to the word "Paper" apart from the mark as shown.
Particular description of goods.—Twine.
Claims use since the year 1911.

Ser. No. 126,450. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. W. CARNRICK CO., New York, N. Y. Filed Dec. 26, 1919.



Particular description of goods.—A Medicinal Tablet for the Treatment of Malaria.
Claims use since Nov. 26, 1919.

Ser. No. 126,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CALCO CHEMICAL COMPANY, Boundbrook, N. J. Filed Dec. 26, 1919.

TOLYSIN

Particular description of goods.—Medicinal Preparations to be Used in the Treatment of Rheumatism, Gout, Migraine, Arthritis, Sciatica, and All other Painful Muscle and Joint Conditions.
Claims use since about Dec. 19, 1919.

Ser. No. 126,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRISON BROS. MILLS, Jefferson, Okla. Filed Dec. 27, 1919.



Particular description of goods.—Highest-Patent Flour.
Claims use since on or about the 20th day of September, 1913.

Ser. No. 126,572. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Dec. 29, 1919.

MOR·ECON

Particular description of goods.—Elevator-Belts Made of Rubber Reinforced with Fabric.
Claims use since about Oct. 1, 1919.

Ser. No. 126,614. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) COSMOPOLITAN FILM COMPANY, New Orleans, La. Filed Dec. 30, 1919.



Particular description of goods.—Scenic and Educational Moving-Picture Films.
Claims use since Mar. 1, 1917.

Ser. No. 126,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Dec. 30, 1919.



No claim being made for the words "Pig Meal" apart from the other features of the mark.
Particular description of goods.—Pig-Meal.
Claims use since the 28th day of August, 1918.

Ser. No. 126,638. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Dec. 30, 1919.



No claim being made to the words "Calf Meal" apart from the other features of the mark.
Particular description of goods.—Calf-Meal.
Claims use since 15th day of April, 1919.

Ser. No. 126,659. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN A. SALZER SEED CO., La Crosse, Wis. Filed Dec. 30, 1919.



No claim being made to the word "Seeds" apart from the mark shown.
Particular description of goods.—Garden, Field, and Flower Seeds.
Claims use since Oct. 1, 1919.

Ser. No. 126,661. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TALCUM PUFF COMPANY, Brooklyn, N. Y. Filed Dec. 30, 1919.

MOON MAID

Consisting of the words "Moon Maid."
Particular description of goods.—Toilet Preparations—viz., Talcum Powder.
Claims use since Dec. 5, 1919.

Ser. No. 126,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed Dec. 30, 1919.

ARMORY

Particular description of goods.—Table-Salt.
Claims use since Jan. 1, 1912.

Ser. No. 126,715. (CLASS 33. GLASSWARE.) CENTRAL GLASS WORKS, Wheeling, W. Va. Filed Jan. 2, 1920.



No claim is herein made to the representation of an article of glassware *per se* or apart from the arrangement of features of which it forms a part as shown in the drawing.
Particular description of goods.—Glassware as Follows: Berry, Bonbon, Jelly, Olive, Lemon, Almond, and Butter Dishes; Stemware, Tumblers, Sherbets, Compotes, Grape-Fruits, Custards, Egg-Glasses, Plates, Nappies, Sugar-Bowls, Cream-Pitchers, Jugs, Water-Bottles, Oil and Vinegar Bottles, Decanters, Celery-Bowls, Mustard and Marmalade Jars, Spoon-Holders, Flower-Holders, Vases, Salt and Pepper Shakers, Fruit-Bowls, Soup-Bowls, Finger-Bowls, Punch-Bowls, and Candlesticks.
Claims use since Dec. 23, 1919.

Ser. No. 126,839. (CLASS 37. PAPER AND STATIONERY.) H. REEVE ANGEL & CO. INC., New York, N. Y. Filed Jan. 6, 1920.



No claim being made to the exclusive use of the words "Filter Paper, Creped White Made in the U. S. A." apart from the mark as shown in the drawing.
Particular description of goods.—Filter-Paper.
Claims use since June 20, 1919.

Ser. No. 126,848. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLA-LOID MFG. CO., Clermont, Iowa. Filed Jan. 6, 1920.

CLA-LOID

Consisting of the words "Cla-Loid."
Particular description of goods.—Mechanics' Soap in Bars.
Claims use since July 21, 1919.

Ser. No. 126,907. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES PROSNITZ, Mount Vernon and New York, N. Y. Filed Jan. 7, 1920.

UNION SQUARE

Particular description of goods.—Narrow Woven Fabrics. The Materials from Which the Said Narrow Woven Fabrics are Made are Cotton Thread, Silk Thread, and Artificial-Silk Thread, and are Made Up in Lengths Ranging from Ten Yards to Forty Yards.
Claims use since Nov. 1, 1919.

Ser. No. 126,936. (CLASS 39. CLOTHING.) CHARLES D. LEVIN, New York, N. Y. Filed Jan. 8, 1920.

"THE GLASS TELLS"

The lining on the drawing indicates shading only.
Particular description of goods.—Men's Outer Suits and Overcoats.
Claims use since Dec. 22, 1919.

Ser. No. 126,962. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERSTATE COTTON OIL REFINING COMPANY, Sherman, Tex. Filed Jan. 9, 1920.

Mrs. Tucker's



The picture shown is fanciful.
Particular description of goods.—Shortening for Cooking Purposes, Composed of Vegetable Oil, and Oil for Cooking or Salad Purposes, Composed of Vegetable Oils.
Claims use since Aug. 15, 1913.

Ser. No. 126,963. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) IVORY POLISH COMPANY, Elyria, Ohio. Filed Jan. 9, 1920.

IVORY

Particular description of goods.—Shoe-Polish.
Claims use since Aug. 22, 1919.

Ser. No. 126,988. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN W. COLLEY, Elkhart, Ind. Filed Jan. 10, 1920.

VURDEX

Particular description of goods.—Leather and Fabric Dressing.
Claims use since July 7, 1919.

Ser. No. 127,016. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ABRAHAM B. SCHNEIDER, New York, N. Y. Filed Jan. 10, 1920.

"FRANCHILLO"

Consisting of the word "Franchillo."
Particular description of goods.—Imitation Fur.
Claims use since Dec. 15, 1919.

Ser. No. 127,055. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GILBERT J. HILL, Newark, N. J. Filed Jan. 12, 1920.

BAR-NON

Particular description of goods.—Drawing-Compasses.
Claims use since Nov. 1, 1919.

Ser. No. 127,082. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALFRED E. CLEVELAND, Cambridge, Mass. Filed Jan. 13, 1920.

SOAKUM

Particular description of goods.—A Washing Compound.
Claims use since about June 1, 1919.

Ser. No. 127,114. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. L. BRUBAKER & BROS., Millersburg, Pa. Filed Jan. 14, 1920.

BRU-STA-TAP

Particular description of goods.—Staybolt-Taps.
Claims use since on or about the 20th day of December, 1919.

Ser. No. 127,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.

COMMERCIAL

No claim is made for the representation of a hen apart from the mark shown in the drawing.
Particular description of goods.—Scratch Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.

FUL-O-GRAIN

No claim is made for the term "Ful-o-Grain" and the representation of a horse's head apart from the mark shown in the drawing.
Particular description of goods.—Horse Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,197. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.

PLENTE GRAIN

No claim is made for the term "Plente-Grain" and the representation of horses' heads apart from the mark shown in the drawing.
Particular description of goods.—Horse Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,198. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.

JACK DOE

No claim is made for the representation of rabbits apart from the mark shown in the drawing.
Particular description of goods.—Rabbit Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,199. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.

Sincerity

No claim is made for the representation of a fowl's head apart from the mark shown in the drawing.
Particular description of goods.—Scratch Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,200. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.



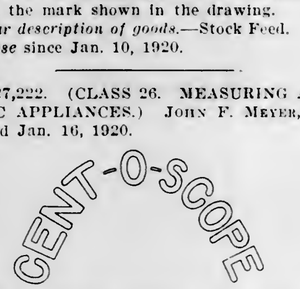
No claim is made for the term "Big-Flo" and the representation of a cow's head apart from the mark shown in the drawing.
Particular description of goods.—Dairy Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN FEED MANUFACTURERS, INC., Chicago, Ill. Filed Jan. 15, 1920.



No claim is made for the representation of animal-heads apart from the mark shown in the drawing.
Particular description of goods.—Stock Feed.
Claims use since Jan. 10, 1920.

Ser. No. 127,222. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JOHN F. MEYER, Chicago, Ill. Filed Jan. 16, 1920.



Particular description of goods.—Coin-Operated Moving-Picture-Viewing Machines.
Claims use since Dec. 11, 1919.

Ser. No. 127,271. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Jan. 17, 1920.

HOUSEWIVES

Particular description of goods.—Bread.
Claims use since Dec. 30, 1914.

Ser. No. 127,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN KLAEBOE, Seattle, Wash. Filed Jan. 19, 1920.

Miracle

Particular description of goods.—Canned Salmon.
Claims use since Dec. 19, 1919.

Ser. No. 127,328. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RED "C" OIL MANUFACTURING CO., Baltimore, Md. Filed Jan. 19, 1920.

SPEEDWAY

Particular description of goods.—Soaps.
Claims use since July 11, 1908.

Ser. No. 127,347. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. F. AVERY & SONS, Louisville, Ky. Filed Jan. 20, 1920. Under ten-year proviso.

CHAMPION

Particular description of goods.—Rakes, Tedders, Hay-Loaders, Hay-Presses, Stackers, Combined Rakes and Stackers, Corn-Pickers, Corn-Shellers, Cornstalk-Rakes, Huskers and Shredders, Ensilage-Cutters, Feed-Grinders, Harrows, Knife and Tool Grinders, Binder-Hitches, Binders, Reapers, Headers, Header-Binders, Mowers, Corn-Binders, Seeders, Planters, Land-Packers, Land-Rollers, Manure-Spreaders, Stalk-Cutters, Weeders, Grain-Drills, Fertilizer-Drills, Lime-Sowers, and Separate Parts for Each of Said Machines.
Claims use since 1860.

Ser. No. 127,366. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DAVID N. GOLDBERG, Chicago, Ill. Filed Jan. 20, 1920.



Particular description of goods.—A Non-Alcoholic Non-Cereal Maltless Fruit Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Oct. 15, 1919.

Ser. No. 127,375. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEOTA FOOD PRODUCTS CO., Oak Park, Ill. Filed Jan. 20, 1920.

LEOTA

Particular description of goods.—Pie-Fillings and Fruit-Flavored Icing and a Compound of a Cereal Product and Powdered Whole Egg.
Claims use since May 1, 1919.

Ser. No. 127,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROBERT F. MACKENZIE CO., Cleveland, Ohio. Filed Jan. 20, 1920.

KING SOL

Particular description of goods.—Candy.
Claims use since January, 1913.

Ser. No. 127,378. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROBERT F. MACKENZIE CO., Cleveland, Ohio. Filed Jan. 20, 1920.

TEE-DEE-BAR

No claim is made to exclusive use of the word "Bar" apart from the mark shown in the drawing.
Particular description of goods.—Candy.
Claims use since January, 1913.

Ser. No. 127,384. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CONRAD G. MOLLER, New Canaan, Conn. Filed Jan. 20, 1920.



Particular description of goods.—Soaps for Cleaning and Scouring Purposes.
Claims use since Jan. 15, 1920.

Ser. No. 127,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PLACENTIA MUTUAL ORANGE ASSOCIATION, Placentia, Calif. Filed Jan. 20, 1920.

MARVEL

Particular description of goods.—Citrus Fruits—Namely, Oranges.
Claims use since Dec. 11, 1919.

Ser. No. 127,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR MAURICE SHEEHAN, San Francisco, Calif. Filed Jan. 20, 1920.



Particular description of goods.—Fresh Vegetables—Namely, Asparagus, and Fresh Fruits—Namely, Pears.
Claims use since Mar. 15, 1919.

Ser. No. 127,405. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY H. SUMMER, Jackson, Tenn. Filed Jan. 20, 1920.



Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Flavors for the Same.
Claims use since Sept. 30, 1919.

Ser. No. 127,410. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. C. WILLIAMS & COMPANY, New York, N. Y. Filed Jan. 20, 1920.

MAYONOLA

Particular description of goods.—Salad-Dressing.
Claims use since Oct. 16, 1919.

Ser. No. 127,537. (CLASS 15. OILS AND GREASES.) JOHN PATRICK BREEN, Great Falls, Mont. Filed Jan. 24, 1920.



No claim being made to the word "Quality" shown.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Nov. 1, 1919.

Ser. No. 127,563. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUSHER & COMPANY, INCORPORATED, Baltimore, Md. Filed Jan. 24, 1920.



Particular description of goods.—Olive-Oil.
Claims use since Apr. 30, 1907.

Ser. No. 127,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MENAMEN TRADING COMPANY, INC., New York, N. Y. Filed Jan. 24, 1920.

Purehearts

Particular description of goods.—Candies.
Claims use since Jan. 15, 1920.

Ser. 127,576. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BUBLITZ & HAMMOND, Nashua, Iowa. Filed Jan. 26, 1920.



Particular description of goods.—Metal-Polish.
Claims use since Jan. 15, 1920.

Ser. No. 127,625. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.



Tiny-tot

Particular description of goods.—Infants' Foods, Condensed Milk, Sugar of Milk, and Malted Milk.
Claims use since December, 1919.

Ser. No. 127,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CHOCOLATE SHOP, INC., Los Angeles, Calif. Filed Jan. 27, 1920.

YOSEMITE BRAND

Exclusive use of the word "Brand" is disclaimed.
Particular description of goods.—Confectionery—Namely, Chocolate Bonbons.
Claims use since Aug. 15, 1918.

Ser. No. 127,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CHOCOLATE SHOP, INC., Los Angeles, Calif. Filed Jan. 27, 1920.

Sequoia

Particular description of goods.—Confectionery—Namely, Chocolate and Bonbons.
Claims use since Aug. 15, 1918.

Ser. No. 127,640. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES AUSTIN FOWLER, Chicago, Ill. Filed Jan. 27, 1920.

EXPO

Particular description of goods.—Syrup Used for Making Non-Alcoholic Non-Intoxicating Maltless Non-Cereal Beverages Sold as Soft Drinks.
Claims use since Nov. 1, 1919.

Ser. No. 127,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Jan. 27, 1920.

Whe-Tam-Ina

Particular description of goods.—A Food Product in Solution in the Form of a Dense Thick Honey-Like Consistence Obtained from Whole Wheat-Berry and to be Used as a Food for Infants, Adults, and Invalids.
Claims use since Nov. 1, 1919.

Ser. No. 127,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO., INC., San Jose, Calif. Filed Jan. 27, 1920.

AJAX

Particular description of goods.—Canned Fruits—Namely, Cherries, Apricots, Peaches, Pears, and Plums; Dried Fruits—Namely, Apricots, Peaches, and Pears, and Canned Vegetables—Namely, Tomatoes.
Claims use since Jan. 2, 1900.

Ser. No. 127,656. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCCORMICK & CO., Baltimore, Md. Filed Jan. 27, 1920.



Particular description of goods.—Salad-Dressing, Mayonnaise Dressing, and Mustard Dressing.
Claims use since about Jan. 1, 1920.

Ser. No. 127,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TOURAINE COMPANY, Boston, Mass. Filed Jan. 27, 1920.

Touraine

Particular description of goods.—Candy and Confections—Namely, Chocolates, Chocolate Bars and Cakes, and Chocolate Nut Bars, Peanut Bars, Almond Bars.
Claims use since Jan. 1, 1906.

Ser. No. 127,692. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) INTERNATIONAL FILM SERVICE CO., INC., New York, N. Y. Filed Jan. 28, 1920.

Daffy News

Particular description of goods.—Motion-Picture Films.
Claims use since Dec. 18, 1919.

Ser. No. 127,721. (CLASS 46. (FOODS AND INGREDIENTS OF FOODS.) THE KELLEY-ROBINSON CORPORATION, New York, N. Y., assignor to The So-Lite Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1920.



No claim being made to the words "Do Nuts" apart from the other feature of the mark.
Particular description of goods.—Doughnuts.
Claims use since about Jan. 1, 1920.

Ser. No. 127,829. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed Jan. 31, 1920.

Sue

Particular description of goods.—Candy.
Claims use since 1918.

Ser. No. 127,850. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOKER CUTLERY & HARDWARE COMPANY, INC., New York, N. Y. Filed Feb. 2, 1920.

RED-INJUN

Particular description of goods.—Razors.
Claims use since about the 1st of November, 1902.

Ser. No. 127,863. (CLASS 17. TOBACCO PRODUCTS.) JOHN J. MAUSER, Sanford, Fla. Filed Feb. 2, 1920.



Particular description of goods.—Cigars.
Claims use since the 1st day of January, 1913.

Ser. No. 127,886. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ADRIAN BELL, Baltimore, Md. Filed Feb. 3, 1920.

EVERYBODY'S

Particular description of goods.—Soaps.
Claims use since Dec. 6, 1919.

Ser. No. 127,892. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill. Filed Feb. 3, 1920.



Particular description of goods.—Ice-Cream, Butter, Bottled Milk, Candy, Table Syrup and Candy, Eggs, and Cream.
Claims use since Nov. 15, 1919.

Ser. No. 127,901. (CLASS 7. CORDAGE.) CHARLES C. DAVIS, Chicago, Ill. Filed Feb. 3, 1920.



Particular description of goods.—Clotheslines.
Claims use since May 12, 1919.

Ser. No. 127,928. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALBERT O. MEIER, Milwaukee, Wis. Filed Feb. 3, 1920.



Particular description of goods.—Gold and Silver Polish.
Claims use since Dec. 12, 1913.

Ser. No. 128,125. (CLASS 39. CLOTHING.) WATTS, RITTER & COMPANY, Huntington, W. Va., and New York, N. Y. Filed Feb. 7, 1920.

KING ALEXANDRA

Particular description of goods.—Sweater-Coats.
Claims use since Sept. 21, 1919.

Ser. No. 128,128. (CLASS 39. CLOTHING.) WYMAN PARTRIDGE & CO., Minneapolis, Minn. Filed Feb. 7, 1920.

WPC POLAR

Particular description of goods.—Men's and Boys' Overcoats.
Claims use since July, 1909.

Ser. No. 128,130. (CLASS 39. CLOTHING.) WYMAN PARTRIDGE & CO., Minneapolis, Minn. Filed Feb. 7, 1920.

GALAXY

Particular description of goods.—Men's Knit Underwear and Sweaters.
Claims use since July, 1909.

Ser. No. 128,137. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. J. BATES & COMPANY, INC., New York, N. Y. Filed Feb. 9, 1920.

ORBITAN

Particular description of goods.—Leather.
Claims use since Dec. 23, 1919.

Ser. No. 128,150. (CLASS 39. CLOTHING.) THE FREE LAND OVERALL MANUFACTURING CO., Freeland and Dubois, Pa. Filed Feb. 9, 1920.

Free Land

Particular description of goods.—Overalls.
Claims use since about Jan. 1, 1900.

Ser. No. 128,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWLEY & HOOPS, New York, N. Y. Filed Feb. 12, 1920.

STARLITE

Particular description of goods.—Candies.
Claims use since Jan. 7, 1920.

Ser. No. 128,316. (CLASS 17. TOBACCO PRODUCTS.) PERFECTO MANUFACTURERS, INC., New York, N. Y. Filed Feb. 12, 1920.

HAVANAROMA

Particular description of goods.—Cigars.
Claims use since Jan. 5, 1920.

Ser. No. 128,318. (CLASS 17. TOBACCO PRODUCTS.) PERFECTO MANUFACTURERS, INC., New York, N. Y. Filed Feb. 12, 1920.

TAMPAROMA

Particular description of goods.—Cigars.
Claims use since Jan. 5, 1920.

Ser. No. 128,342. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN BELT PACKING COMPANY, Dubuque, Iowa. Filed Feb. 13, 1920.

CORN BELT

Particular description of goods.—Kettle-Rendered Lard.
Claims use since Oct. 27, 1919.

Ser. No. 128,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCKEY U. HUMPHREYS, Somerville, Mass. Filed Feb. 14, 1920.



No claim is made to the words "Flavoring Extracts."
Particular description of goods.—Flavoring Extracts for Foods.
Claims use since Jan. 1, 1920.

Ser. No. 128,455. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) J. A. MIGEL, INC., New York, N. Y. Filed Feb. 16, 1920.

"MOON-GLO"

Particular description of goods.—Parasols and Umbrellas.
Claims use since September, 1914.

Ser. No. 128,485. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE BEAVER COMPANY, Buffalo, N. Y. Filed Feb. 17, 1920.



Particular description of goods.—Linoleum and Composition Floor-Coverings.
Claims use since Jan. 20, 1920.

Ser. No. 128,489. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DIAMOND GRINDER COMPANY, Cedar Falls, Iowa. Filed Feb. 17, 1920.

LIBERTY

Particular description of goods.—Grist-Mills.
Claims use since May 15, 1918.

Ser. No. 128,502. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JAMES H. HAMMON, Vincennes, Ind. Filed Feb. 17, 1920.

Ar-Vertex

Particular description of goods.—Spectacle-Lenses, Lens-Blanks, and Spectacle-Frames.
Claims use since Nov. 5, 1919.

Ser. No. 128,509. (CLASS 15. OILS AND GREASES.) D-A LUBRICANT COMPANY, Washington, D. C., and Indianapolis, Ind. Filed Feb. 17, 1920.

DEPENDABLE - ALWAYS D-A Lubricant

No claim is made to the exclusive use of the words "Lubricant, Dependable, Always" apart from the mark as shown.
Particular description of goods.—Lubricating-Greases.
Claims use since on or about June 2, 1919.

Ser. No. 128,526. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULER CHOCOLATE FACTORY, INC., Winona, Minn. Filed Feb. 17, 1920.

Diploma

Particular description of goods.—Candy.
Claims use since Jan. 20, 1920.

Ser. No. 128,547. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. H. DULLE MILLING CO., Jefferson City, Mo. Filed Feb. 18, 1920.

HIGH SCHOOL

Particular description of goods.—Flour Made from Wheat.
Claims use since June 18, 1917.

Ser. No. 128,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN NUT BUTTER COMPANY, Providence, R. I. Filed Feb. 19, 1920.

Sunset

Particular description of goods.—Oleomargarin.
Claims use since Dec. 27, 1919.

Ser. No. 128,592. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IWAN BURGER, INC., New York, N. Y. Filed Feb. 19, 1920.

NORBEST

Particular description of goods.—Herring, Mackerel, Salmon, Tuna, Lobster, Crab-Meat, Shrimp, Fish-Roe, Macaroni, Peas, Peaches, Cheese, Olives, Olive-Oil, Pilchards, and Sardines.
Claims use since Feb. 9, 1920.

Ser. No. 128,593. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IWAN BURGER, INC., New York, N. Y. Filed Feb. 19, 1920.

BONPORTO

Particular description of goods.—Herring, Mackerel, Salmon, Tuna, Lobster, Crab-Meat, Shrimp, Fish-Roe, Macaroni, Peas, Peaches, Cheese, Olives, Olive-Oil, Pilchards, and Sardines.
Claims use since Feb. 9, 1920.

Ser. No. 128,616. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RALSTON PURINA COMPANY, St. Louis, Mo. Filed Feb. 19, 1920.



Particular description of goods.—Stock Feed.
Claims use since Jan. 1, 1899.

Ser. No. 128,629. (CLASS 20. LINOLEUM AND OILED CLOTH.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 19, 1920.

EUREKA

Particular description of goods.—Oil-Cloth, Table and Floor Use.
Claims use since about 1908.

Ser. No. 128,643. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMENDT MILLING COMPANY, Monroe and Trenton, Mich., and Delta, Ohio. Filed Feb. 20, 1920.

MOVIE

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 12, 1919.

Ser. No. 128,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Feb. 20, 1920.

Rip Van Winkles

Particular description of goods.—Candy.
Claims use since Dec. 8, 1919.

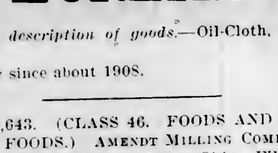
Ser. No. 128,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Feb. 20, 1920.

Heap O'Livin'

Particular description of goods.—Candy.
Claims use since Dec. 3, 1919.

Ser. No. 128,679. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRANGER & COMPANY, Buffalo, N. Y. Filed Feb. 20, 1920.

GOLD LEAF



Particular description of goods.—Mince-Meat.
Claims use since 1895.

Ser. No. 128,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed Feb. 20, 1920.

Zip - Zip

Particular description of goods.—Candy.
Claims use since the 5th day of February, 1920.

Ser. No. 128,759. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE O. DAWSON, Blair, Nebr. Filed Feb. 24, 1920.

ROYAL BLUE

Particular description of goods.—Canned Vegetables.
Claims use since about August, 1897.

Ser. No. 128,760. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE O. DAWSON, Blair, Nebr. Filed Feb. 24, 1920.

Silver Crown



Particular description of goods.—Canned Vegetables.
Claims use since about August, 1899.

Ser. No. 128,761. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE O. DAWSON, Blair, Nebr. Filed Feb. 24, 1920.

MISSOURI RIVER



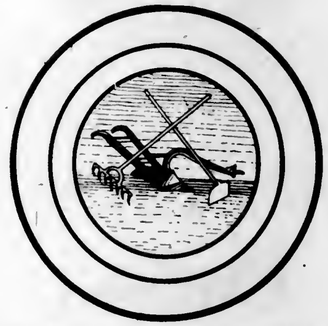
Particular description of goods.—Canned Vegetables.
Claims use since about Jan. 1, 1897.

Ser. No. 128,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE O. DAWSON, Blair, Nebr. Filed Feb. 24, 1920.

AK-SAR-BEN

Particular description of goods.—Canned Vegetables.
Claims use since about the 1st day of January, 1897.

Ser. No. 128,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FARMERS UNION STATE EXCHANGE, Omaha, Nebr. Filed Feb. 24, 1920.



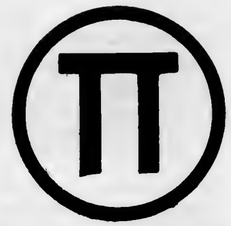
Particular description of goods.—Canned Corn.
Claims use since Nov. 1, 1917.

Ser. No. 128,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOWER CALIFORNIA PACKING PLANTS, Los Angeles, Calif. Filed Feb. 24, 1920.

CALMEX

Particular description of goods.— Canned Fish — Namely, Canned Abalone and Canned Kamaboko.
Claims use since Nov. 24, 1919.

Ser. No. 128,806. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) THE TRAUB MANUFACTURING COMPANY, Detroit, Mich. Filed Feb. 24, 1920.



Particular description of goods.—Bead-Clasps, Bracelets, Brooches, Cuff-Links, Finger-Rings, Lavallières, Lockets, and Scarf Pins and Snaps.
Claims use since February, 1917.

Ser. No. 128,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED WHOLESALE GROCERY CO., Los Angeles, Calif. Filed Feb. 24, 1920.

TASTE TELLS

Particular description of goods.—Tea, Coffee; Canned Vegetables — Namely, String-Beans, Spinach, Tomatoes, Succotash, Lima Beans, Sugar-Corn, Hominy, Peas, Lentils; Canned Fish — Namely, Salmon and Oysters; Dried Fruits—Namely, Currants; Allspice, Leaf-Sage, Vinegar, Salad-Oil, Olive-Oil, Plum Jam, Food-Flavoring Extracts, Pearl-Barley, Pop-Corn, Taploca and Sago, and Pepper.
Claims use since Sept. 5, 1919.

Ser. No. 128,920. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DOW PUMP AND DIESEL ENGINE COMPANY, Alameda, Calif. Filed Feb. 26, 1920. Under ten-year proviso.

DOW

Particular description of goods.—Water-Works Pattern Cross-Compound Pumps, Heavy-Pressure Pattern Cross-Compound Pumps, Boiler-Feed Horizontal and Vertical Duplex Pumps, Light-Service Horizontal and Vertical Duplex Pumps, Motor-Driven Pumps of Horizontal and Vertical Types, Duplex and Marine and Underwriters' Fire-Pumps, High-Duty Pumps of Cross-Compound Type and Triple-Expansion Type, Hydraulic-Pressure Pumps, Irrigating-Pumps, Molasses and Magma Pumps, Vertical Single-Pattern Marine Pumps, Vertical Duplex-Pattern Marine Pumps, Steam or Compressed-Air Mine-Pumps for Sinking, Steam or Compressed-Air Mine-Pumps for Stations, Motor-Driven Mine-Pumps of Horizontal Duplex and Horizontal Triplex Type, Oil-Line Pumps of Duplex Type and Compound Type and Flywheel Type, Air-Pumps and Jet-Condensers, Air-Pumps and Surface Condensers of Horizontal and Vertical Pattern, Steam and Power Artesian-Well Pumps, Oil and Ballast Pumps of Horizontal and Vertical Type, Horizontal Single-Piston-Type and Duplex-Piston-Type Boiler-Feed Pumps, Horizontal Duplex-Plunger-Type Boiler-Feed Pumps, Vertical Single Marine and Vertical Duplex Marine Boiler-Feed Pumps, Combined Air and Circulating Pumps of Horizontal and Vertical Pattern, Single-Cylinder Compound Pumps, Duplex-Piston Compound Pumps, Duplex Inside-Plunger Compound Pumps, Duplex Double-Plunger Compound Pumps, Duplex Center-Packed Compound Pumps, Jet and Surface Condensers, Centrifugal Pumps, Vegetable and Mineral Oil Pumps of Horizontal and Vertical Patterns, Artesian-Well and Duplex Power-Pumps, Horizontal Triplex and Vertical Triplex Power-Pumps, Sinking-Pumps, Single and Duplex Tank-Pumps, Horizontal-Pattern Vacuum-Pumps, Vertical Twin-Beam-Type Vacuum-Pumps, Horizontal Duplex-Pattern and Vertical Triplex-Pattern Water-Works Pumps, Direct-Acting Pattern Water-Works Pumps, Crank and Flywheel Pattern Water-Works Pumps, and Diesel-Type Oil-Engines.
Claims use since 1880.

Ser. No. 128,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BASKET STORES COMPANY, Omaha, Nebr. Filed Feb. 28, 1920.

CASH HABIT

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Evaporated Milk, Canned Salmon, Peanut-Butter, Pickles, Corn Flakes, Rolled Oats, Farina, Wheat-Flour, Macaroni, Flavoring Extracts for Foods, Spices, Corn-Syrup, Catsup, Gelatin Jelly-Powders, Fruit Jellies, Coffee, Tea, Cocoa, and Chocolate.
Claims use since Dec. 23, 1918.

Ser. No. 128,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BASKET STORES COMPANY, Omaha, Nebr. Filed Feb. 28, 1920.

BASKO

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Evaporated Milk, Canned Salmon, Peanut-Butter, Pickles, Corn Flakes, Rolled Oats, Farina, Wheat-Flour, Macaroni, Flavoring Extracts for Food, Spices, Corn-Syrup, Catsup, Gelatin Jelly-Powders, Fruit Jellies, Coffee, Tea, Cocoa, and Chocolate.
Claims use since Dec. 23, 1918.

Ser. No. 129,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 28, 1920.

BUTTER SWEET

Particular description of goods.—Bread.
Claims use since June 1, 1908.

Ser. No. 129,093. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN RUSSELL CUTLERY COMPANY, Turners Falls, Mass. Filed Mar. 1, 1920.

RUSSELL

Particular description of goods.—Pocket, Table, Butcher, and Trade Knives.
Claims use since Feb. 21, 1920.

Ser. No. 129,094. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN RUSSELL CUTLERY COMPANY, Turners Falls, Mass. Filed Mar. 1, 1920.

RUSSELL
GREEN RIVER WORKS

Particular description of goods.—Table, Butcher, and Trade Knives.
Claims use since Feb. 21, 1920.

Ser. No. 129,112. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WESTERN WHEELED SCRAPER COMPANY, Aurora, Ill. Filed Mar. 1, 1920. Under ten-year proviso.

Western

Particular description of goods.—Dump-Cars, Spreader-Cars, Flat-Cars, and Dump-Wagons.
Claims use since Apr. 14, 1891.

Ser. No. 129,119. (CLASS 11. INKS AND INKING MATERIALS.) JOHN T. BARLOW, Philadelphia, Pa. Filed Mar. 2, 1920.

JTB

Particular description of goods.—Photo-Engravers' Inks.
Claims use since about February, 1917.

Ser. No. 129,131. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920. Under ten-year proviso.

CARBONIZING COATING

Particular description of goods.—Paint for Iron and Steel.
Claims use since 1890.

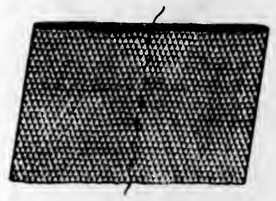
Ser. No. 129,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH MOSKOWITZ, Brooklyn, N. Y. Filed Mar. 2, 1920.

ADMIRATION



Particular description of goods.—Wheat-Flour.
Claims use since Nov. 15, 1919.

Ser. No. 129,152. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE ROSSENDALE-REDDAWAY BELTING AND HOSE CO., Newark, N. J. Filed Mar. 2, 1920.



The representation of the section of belting shown in the drawing forms no part of the said trade-mark and is hereby disclaimed.
Particular description of goods.—A Copper Thread or Wire Woven or Laid Longitudinally in Hair, Cotton Woven, Stitched Canvas, and Rubber Belting.
Claims use since Apr. 19, 1919.

Ser. No. 129,248. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUCH-DROMPP GROCERY CO., Logansport, Ind. Filed Mar. 4, 1920.

KIDDIE KNEAD

Particular description of goods.—Bread.
Claims use since Sept. 1, 1919.

Ser. No. 129,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST N. LEMON, Lynchburg, Ohio. Filed Mar. 5, 1920.

SUNLIGHT

Particular description of goods.—Eggs for Hatching and Poultry.
Claims use since January, 1912.

Ser. No. 129,288. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. STILLING-ANDERSEN, INC., New York, N. Y. Filed Mar. 5, 1920.

DANOVA

Consisting of the word "Danova."
Particular description of goods.—Butter.
Claims use since Feb. 3, 1920.

Ser. No. 129,380. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GOLDSMITH BROTHERS SMELTING AND REFINING COMPANY, Chicago, Ill. Filed Mar. 8, 1920.

Julane

Particular description of goods.—Pearls.
Claims use since Dec. 1, 1919.

Ser. No. 129,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NUT-GROVE BUTTER COMPANY, Providence, R. I. Filed Mar. 9, 1920.

NUT-O-GOLD

Particular description of goods.—Oleomargarin.
Claims use since Jan. 1, 1919.

Ser. No. 129,570. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRANGE MILLING COMPANY, New Douglas, Ill. Filed Mar. 11, 1920.

LIVE WIRE

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since Dec. 27, 1919.

Ser. No. 129,642. (CLASS 5. ADHESIVES.) THE NAPCO CORPORATION, Indianapolis, Ind. Filed Mar. 13, 1920.

NAPCO

Particular description of goods.—Glue.
Claims use since Jan. 1, 1917.

Ser. No. 130,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSAK MANUFACTURING CO., Scranton, Pa. Filed Mar. 30, 1920.

HORKÉ VÍNO

Particular description of goods.—A Reconstructive Tonic.
Claims use since Apr. 1, 1894.

Ser. No. 130,357. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSAK MANUFACTURING CO., Scranton, Pa. Filed Mar. 30, 1920.



Particular description of goods.—A Reconstructive Tonic.
Claims use since Apr. 1, 1894.

Ser. No. 130,358. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSAK MANUFACTURING CO., Scranton, Pa. Filed Mar. 30, 1920.

BOSAK'S

Particular description of goods.—A Reconstructive Tonic.
Claims use since Apr. 1, 1894.

TRADE-MARK REGISTRATIONS GRANTED

APRIL 20, 1920.

130,252. HANDKERCHIEFS. ALCO TEXTILE PRODUCTS Co., Albany, N. Y.
Filed July 23, 1919. Serial No. 120,809. PUBLISHED JANUARY 13, 1920.

130,253. CANNED FISH. ALASKA BAKONIZED FISH Co., Juneau, Alaska.
Filed September 25, 1919. Serial No. 123,099. PUBLISHED JANUARY 13, 1920.

130,254. OPTICAL LENSES. FRANK B. ALEXANDER, New York, N. Y.
Filed June 9, 1919. Serial No. 119,327. PUBLISHED NOVEMBER 18, 1919.

130,255. COVER-PAPER. ALEXANDER-HOLDEN PAPER Co. INC., New York, N. Y.
Filed April 2, 1919. Serial No. 117,098. PUBLISHED FEBRUARY 3, 1920.

130,256. CANNED SARDINES. AMERICAN MEXICAN PACKING Co., Wilmington, Calif.
Filed September 16, 1919. Serial No. 122,753. PUBLISHED DECEMBER 9, 1919.

130,257. GLASS JARS. THE AMERICAN PURE FOOD PROCESS Co., Baltimore, Md.
Filed September 18, 1919. Serial No. 122,811. PUBLISHED JANUARY 6, 1920.

130,258. EDIBLE OILS—VIZ., PEANUT-OIL, COTTON-SEED OIL, SOY-BEAN OIL—AND LARD SUBSTITUTE. ASPEGREN & Co., New York, N. Y.
Filed June 28, 1919. Serial No. 120,024. PUBLISHED JANUARY 27, 1920.

130,259. COLLAPSIBLE RIM. BAER COLLAPSIBLE RIM CORPORATION, San Francisco, Calif.
Filed August 30, 1919. Serial No. 122,156. PUBLISHED JANUARY 6, 1920.

130,260. OLIVE-OIL. JOSÉ BAU, Tortosa, Spain.
Filed April 2, 1919. Serial No. 117,101. PUBLISHED DECEMBER 9, 1919.

130,261. MALT EXTRACT FOR FOOD PURPOSES. CALVIN L. BEARDSLEY, Rock Island, Ill.
Filed October 10, 1919. Serial No. 123,608. PUBLISHED DECEMBER 30, 1919.

130,262. CANDY. WILLIAM BEATTY JR. & Co., Philadelphia, Pa.
Filed April 3, 1919. Serial No. 117,132. PUBLISHED JANUARY 13, 1920.

130,263. LEAD-PENCILS, CRAYONS, LUMBER-LEADS, PENHOLDERS, METALLIC PENS, FOUNTAIN-PENS, PENCIL-SHARPENERS, POINT-PROTECTORS, AND RUBBER ERASERS. BLAISDELL PENCIL COMPANY, Philadelphia, Pa.
Filed December 20, 1919. Serial No. 126,268. PUBLISHED FEBRUARY 3, 1920.

130,264. JEWELRY MADE WHOLLY OR IN PART OF PRECIOUS METAL OR PLATED THEREWITH. THE E. A. BLISS COMPANY, Meriden, Conn.
Filed October 1, 1919. Serial No. 123,299. PUBLISHED FEBRUARY 3, 1920.

130,265. CONDENSED MILK. THE BORDEN COMPANY, New York, N. Y.
Filed June 2, 1919. Serial No. 119,116. PUBLISHED DECEMBER 9, 1919.

130,266. SHOES OF LEATHER AND OF CLOTH OR CANVAS. BRAUER BROS. SHOE COMPANY, St. Louis, Mo.
Filed August 4, 1919. Serial No. 121,230. PUBLISHED JANUARY 20, 1920.

130,267. MEN'S AND BOYS' DRESS-NEGLIGÉES AND WORK-SHIRTS. BRIGHTON SHIRT Co., New York, N. Y.
Filed September 25, 1919. Serial No. 123,105. PUBLISHED FEBRUARY 3, 1920.

130,268. ELECTRICALLY-OPERATED TRAFFIC-SIGNALS FOR VEHICLES. JAMES S. BROWN, Chicago, Ill.
Filed April 28, 1919. Serial No. 117,925. PUBLISHED DECEMBER 9, 1919.

130,269. HOSIERY. THOMAS E. BROWN, Philadelphia, Pa.
Filed October 17, 1919. Serial No. 123,871. PUBLISHED JANUARY 20, 1920.

130,270. COOKING-SYRUP FOR CONFECTIONERS AND BAKERS. WILLIAM M. BROWNELL, New York, N. Y.
Filed October 4, 1919. Serial No. 123,420. PUBLISHED DECEMBER 30, 1919.

130,271. REPAIR-LINKS FOR CHAINS. ALFRED W. BURKE, Lowell, Mass.
Filed July 11, 1919. Serial No. 120,445. PUBLISHED DECEMBER 2, 1919.

130,272. VOILE. BURTON BROS. & Co., New York, N. Y.
Filed November 5, 1918. Serial No. 114,050. PUBLISHED DECEMBER 23, 1919.

130,273. MACARONI, SPAGHETTI, VERMICELLI. CALIFORNIA MACARONI COMPANY, San Francisco, Calif.
Filed August 23, 1919. Serial No. 121,925. PUBLISHED DECEMBER 23, 1919.

130,274. CANNED FRUITS—NAMELY, CANNED PEACHES, CANNED APRICOTS, AND CANNED PEARS. CALIFORNIA SANITARY CANNING Co., Los Angeles, Calif.
Filed October 10, 1919. Serial No. 123,613. PUBLISHED DECEMBER 30, 1919.

130,275. GINGHAMS, PERCALES, BLEACHED MUSLIN, NAINSOOK, CAMBRICS, AND LONG-CLOTH. CARSON PIRIE SCOTT & Co., Chicago, Ill., assignor to Carson, Pirie, Scott & Co., Chicago, Ill., a Corporation of Illinois.
Filed September 11, 1918. Serial No. 113,119. PUBLISHED DECEMBER 23, 1919.

130,276. MEN'S NEGLIGÉE OUTER SHIRTS. CARSON PIRIE SCOTT & Co., Chicago, Ill., assignor to Carson, Pirie, Scott & Co., Chicago, Ill., a Corporation.
Filed September 11, 1918. Serial No. 113,121. PUBLISHED DECEMBER 30, 1919.

130,277. WIRE MEAT-BROILERS. H. J. CHAMBERLIN, INC., Worcester, Mass.
Filed June 30, 1919. Serial No. 120,098. PUBLISHED DECEMBER 2, 1919.

130,278. FINISHED LEATHER. CHEVAUX KID LEATHER Co., Boston, Mass.
Filed October 28, 1919. Serial No. 124,260. PUBLISHED JANUARY 20, 1920.

130,279. ELECTRIC FLATIRONS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed September 24, 1919. Serial No. 123,050. PUBLISHED DECEMBER 9, 1919.

130,280. ELECTRIC FANS. THOMAS E. CLARK, Detroit, Mich.
Filed October 2, 1919. Serial No. 123,335. PUBLISHED DECEMBER 23, 1919.

130,281. CANNED CORN. CLARKSVILLE CANNING CO., Clarksville, Iowa.
Filed July 15, 1918. Serial No. 112,127. PUBLISHED DECEMBER 30, 1919.

130,282. GRAIN-SEED. H. K. COCHRAN COMPANY, Little Rock, Ark.
Filed August 23, 1919. Serial No. 121,921. PUBLISHED JANUARY 6, 1920.

130,283. SNAP-FASTENERS. COLUMBIA FASTENER COMPANY, Chicago, Ill.
Filed June 23, 1919. Serial No. 119,849. PUBLISHED JANUARY 6, 1920.

130,284. SNAP-FASTENERS. COLUMBIA FASTENER COMPANY, Chicago, Ill.
Filed July 23, 1919. Serial No. 120,815. PUBLISHED JANUARY 6, 1920.

130,285. SNAP DRESS-FASTENERS. COLUMBIA FASTENER COMPANY, Chicago, Ill.
Filed September 8, 1919. Serial No. 122,424. PUBLISHED JANUARY 20, 1920.

130,286. CALIPERS AND DIVIDERS FOR MEASURING PURPOSES, MEASURING-TAPES, COMBINATION-SQUARES FOR MEASURING PURPOSES, AND MEASURING-RULES. CONSOLIDATED TOOL WORKS, INC., New York, N. Y.
Filed July 11, 1919. Serial No. 120,447. PUBLISHED NOVEMBER 18, 1919.

130,287. MEN'S AND WOMEN'S NIGHT-WEAR. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif., and New York, N. Y.
Filed October 20,1919. Serial No. 123,964. PUBLISHED JANUARY 20, 1920.

130,288. AUTOMOBILES AND MOTOR-TRUCKS. JOSÉ CUNILL DE FIGUEROLA, New York, N. Y.
Filed October 7, 1919. Serial No. 123,520. PUBLISHED JANUARY 20, 1920.

130,289. SPARK-PLUGS. THE DERF MANUFACTURING COMPANY INC., New York, N. Y.
Filed June 20, 1919. Serial No. 119,796. PUBLISHED JANUARY 6, 1920.

130,290. PREPARED STEEL STOVE-LININGS. DETROIT STOVE WORKS, Detroit, Mich.
Filed July 14, 1919. Serial No. 120,524. PUBLISHED DECEMBER 16, 1919.

130,291. PUNCHES—VIZ., PUNCHES FOR PERFORATING PAPER-FILES. HOWARD M. DIGGS, East Orange, N. J.
Filed September 10, 1919. Serial No. 122,527. PUBLISHED DECEMBER 23, 1919.

130,292. BUTTER. GEO. R. ELDRIDGE CO., Detroit, Mich.
Filed September 16, 1919. Serial No. 122,761. PUBLISHED DECEMBER 9, 1919.

130,293. INTERNAL-COMBUSTION ENGINES. ELGIN GAS MOTOR COMPANY, Elgin, Ill.
Filed September 22, 1919. Serial No. 122,978. PUBLISHED DECEMBER 2, 1919.

130,294. MOTOR-VEHICLES—NAMELY, AUTOMOBILES AND MOTOR-TRUCKS. ELGIN MOTOR CAR CORPORATION, Argo, Ill.
Filed July 14, 1919. Serial No. 120,526. PUBLISHED JANUARY 13, 1920.

130,295. HOSE-SUPPORTER. ELY & WALKER DRY GOODS CO., St. Louis, Mo., and New York, N. Y.
Filed July 7, 1919. Serial No. 120,303. PUBLISHED JANUARY 6, 1920.

130,296. STORAGE BATTERIES. FRANKLIN STORAGE BATTERY CO., Chicago, Ill.
Filed July 5, 1919. Serial No. 120,283. PUBLISHED DECEMBER 30, 1919.

130,297. VEILS, MALINES, HAIR-NETS, AND CHIFFONS. FULD, TRAUBE & CO., INC., New York, N. Y.
Filed July 21, 1919. Serial No. 120,746. PUBLISHED JANUARY 13, 1920.

130,298. SNAP-FASTENERS. FULFORD MFG. CO., Providence, R. I.
Filed August 20, 1919. Serial No. 121,833. PUBLISHED JANUARY 13, 1920.

130,299. SPARK-PLUGS. FREDERICK M. FURBER, Revere, Mass., assignor to Furber Manufacturing Corporation, a Corporation of Massachusetts.
Filed August 6, 1919. Serial No. 121,299. PUBLISHED DECEMBER 2, 1919.

130,300. FRESH FRUITS—NAMELY, CHERRIES, APPLES, PEARS, PEACHES, BERRIES, PRUNES, PLUMS, APRICOTS, YOKIMINES. FURRY FRUIT & PRODUCE CO., Yakima, Wash.
Filed August 30, 1919. Serial No. 122,164. PUBLISHED JANUARY 6, 1920.

130,301. OLIVE-OIL. WALTER L. GEER, New York, N. Y.
Filed August 19, 1919. Serial No. 121,805. PUBLISHED JANUARY 27, 1920.

130,302. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THE SAME. ORONZIO GENTILE, West Hoboken, N. J.
Filed September 5, 1919. Serial No. 122,352. PUBLISHED DECEMBER 30, 1919.

130,303. RUBBER STAMPS AND STENCILS. A. C. GIBSON COMPANY, INC., Buffalo, N. Y.
Filed July 14, 1919. Serial No. 120,534. PUBLISHED FEBRUARY 3, 1920.

130,304. DISH-WASHING MACHINES. HENRY GIESSEL CO., Chicago, Ill.
Filed January 27, 1919. Serial No. 115,454. PUBLISHED DECEMBER 2, 1919.

130,305. WRITING-PAPER. GILBERT PAPER COMPANY, Menasha, Wis.
Filed September 10, 1919. Serial No. 122,536. PUBLISHED FEBRUARY 3, 1920.

130,306. PNEUMATIC MACHINE-TOOLS FOR SCALING AND CLEANING BOILER-PLATES AND LIKE SURFACES. FRANK GILMAN, Birmingham, England.
Filed August 14, 1919. Serial No. 121,666. PUBLISHED DECEMBER 30, 1919.

130,307. CHILDREN'S HOSIERY. JOHN M. GIVEN, INC., Pittsburgh, Pa.; Chicago, Ill., and New York, N. Y.
Filed October 15, 1919. Serial No. 123,800. PUBLISHED JANUARY 20, 1920.

130,308. HOSIERY. GOODWEAR HOSIERY CO., Kenosha, Wis.
Filed October 13, 1919. Serial No. 123,734. PUBLISHED JANUARY 13, 1920.

130,309. ELECTRICAL LAVATORY DRYING-MACHINES. GROTON ELECTRICAL DEVICES INC., Groton, N. Y.
Filed September 24, 1919. Serial No. 123,053. PUBLISHED DECEMBER 9, 1919.

130,310. CANDIES AND CHOCOLATES. GRUENHAGEN'S, San Francisco, Calif.
Filed September 4, 1919. Serial No. 122,298. PUBLISHED DECEMBER 9, 1919.

130,311. SHOE-TONGUE PADS. EDWIN A. GUINZBURG, New York, N. Y.
Filed November 14, 1919. Serial No. 124,896. PUBLISHED JANUARY 13, 1920.

130,312. CERTAIN NAMED FOODS. HAAS, BARUCH & CO., Los Angeles, Calif.
Filed April 6, 1918. Serial No. 110,022. PUBLISHED JANUARY 6, 1920.

130,313. NECKTIES. GRANVILLE LLOYD HENDRIX, Santa Rosa, Calif.
Filed August 17, 1918. Serial No. 112,768. PUBLISHED DECEMBER 30, 1919.

130,314. GARTERS. HEWES & POTTER, Boston, Mass.
Filed October 30, 1919. Serial No. 124,346. PUBLISHED JANUARY 20, 1920.

130,315. MEN'S SUITS AND OVERCOATS. HARRY HINDLEMANN INC., New York, N. Y.
Filed September 5, 1919. Serial No. 122,354. PUBLISHED JANUARY 27, 1920.

130,316. LUMINOUS HANDS FOR WATCHES AND CLOCKS. THE HINDS LUMINOUS COMPOUND COMPANY, Hammersmith, London, England.
Filed July 7, 1919. Serial No. 120,308. PUBLISHED DECEMBER 9, 1919.

130,317. FRESH SAUSAGE. CHARLES HOLLENBACH, Chicago, Ill.
Filed September 12, 1919. Serial No. 122,599. PUBLISHED JANUARY 6, 1920.

130,318. EGG-SUBSTITUTE POWDER. W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y.
Filed January 27, 1919. Serial No. 115,457. PUBLISHED JANUARY 13, 1920.

130,319. BOTTLED CHERRIES, MARASCHINO STYLE. EVAN W. HOOK & CO., INC., Baltimore, Md.
Filed March 14, 1919. Serial No. 116,572. PUBLISHED MAY 27, 1919.

130,320. BOOTS AND SHOES OF LEATHER, SKINS, HIDES, OR PARTLY OF LEATHER, SKINS, AND HIDES AND CLOTH. HUNTINGTON SHOE AND LEATHER COMPANY, Huntington, Ind.
Filed October 13, 1919. Serial No. 123,736. PUBLISHED FEBRUARY 3, 1920.

130,321. CANDY. ANNA IANNELLA, Chicago, Ill.
Filed August 9, 1919. Serial No. 121,512. PUBLISHED DECEMBER 9, 1919.

130,322. BUTTER. INTERNATIONAL MERCHANTS INCORPORATED, San Francisco, Calif.
Filed September 2, 1919. Serial No. 122,213. PUBLISHED JANUARY 6, 1920.

130,323. CANDIES. JOHNSON BROS. & ALEXANDER, Chicago, Ill.
Filed October 5, 1917. Serial No. 106,620. PUBLISHED JANUARY 6, 1920.

130,324. HANDKERCHIEFS. JORDAN MARSH COMPANY, Boston, Mass.
Filed July 17, 1919. Serial No. 120,647. PUBLISHED JANUARY 13, 1920.

130,325. MEN'S, WOMEN'S, AND CHILDREN'S KID GLOVES. HENRY KAYSER & FILS, INC., New York, N. Y.
Filed May 26, 1919. Serial No. 118,914. PUBLISHED DECEMBER 30, 1919.

130,326. MEN'S, LADIES', CHILDREN'S, AND INFANTS' UNDERWEAR IN ONE AND TWO PIECE GARMENTS AND HOSIERY. ROBERT C. KING & CO., New York, N. Y.
Filed November 11, 1919. Serial No. 124,757. PUBLISHED FEBRUARY 3, 1920.

130,327. MEN'S, LADIES', CHILDREN'S, AND INFANTS' UNDERWEAR IN ONE AND TWO PIECE GARMENTS. ROBERT C. KING & CO., New York, N. Y.
Filed November 12, 1919. Serial No. 124,798. PUBLISHED FEBRUARY 3, 1920.

130,328. MEN'S OVERALLS. JACOB KIRSCHNER, Savannah, Ga.
Filed September 2, 1919. Serial No. 122,218. PUBLISHED DECEMBER 30, 1919.

130,329. MEN'S OVERALLS. JACOB KIRSCHNER, Savannah, Ga.
Filed August 28, 1919. Serial No. 122,079. PUBLISHED DECEMBER 2, 1919.

130,330. LEATHER SHOES FOR USE BY MEN, WOMEN, AND BOYS, GIRLS, AND CHILDREN. HENRY KLEINE & CO., Chicago, Ill.
Filed May 16, 1919. Serial No. 118,562. PUBLISHED DECEMBER 2, 1919.

130,331. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed May 26, 1919. Serial No. 118,918. PUBLISHED NOVEMBER 25, 1919.

130,332. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed June 10, 1919. Serial No. 119,418. PUBLISHED NOVEMBER 11, 1919.

130,333. ELECTRIC LOCOMOTIVES, ELECTRIC TRACTORS. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed July 12, 1919. Serial No. 120,488. PUBLISHED OCTOBER 28, 1919.

130,334. RAZORS. GEO. W. KORN RAZOR MFG. CO., Little Valley, N. Y.
Filed August 30, 1919. Serial No. 122,174. PUBLISHED DECEMBER 30, 1919.

130,335. TEA, COFFEE, CHOCOLATE, AND COCOA. KRENNING-SCHLAPP GROCER COMPANY, St. Louis, Mo.
Filed September 15, 1919. Serial No. 122,694. PUBLISHED DECEMBER 9, 1919.

130,336. CANNED MILK. KRENNING-SCHLAPP GROCER COMPANY, St. Louis, Mo.
Filed September 15, 1919. Serial No. 122,699. PUBLISHED DECEMBER 9, 1919.

130,337. CITRUS FRUITS—VIZ., FRESH ORANGES AND GRAPE-FRUIT. LAKE WALES CITRUS GROWERS ASSOCIATION, Lake Wales, Fla.
Filed August 13, 1919. Serial No. 121,629. PUBLISHED JANUARY 20, 1920.

130,338. TEXTILE FABRICS—NAMELY COTTON PIECE GOODS, COTTON NETTING, COTTON BUNTING, AND SILK PIECE GOODS. LAMBORN & CO., New York, N. Y.
Filed March 28, 1919. Serial No. 116,992. PUBLISHED JANUARY 20, 1920.

130,339. PREPARED FELT ROOFING. LAMBORN & CO., New York, N. Y.
Filed October 6, 1919. Serial No. 123,486. PUBLISHED JANUARY 20, 1920.

130,340. CERTAIN NAMED ARTICLES OF CLOTHING. THE LERNER WAIST CO., New York, N. Y.
Filed June 21, 1919. Serial No. 119,835. PUBLISHED JANUARY 6, 1920.

130,341. POWDERED PREPARATION FOR MAKING A FRUIT ACID AND SPICE-FLAVORED MARMALADE AND JAM. DANIEL L. LEVINSON, Chicago, Ill.
Filed May 7, 1919. Serial No. 118,232. PUBLISHED JANUARY 20, 1920.

130,342. YOUNG MEN'S OUTER GARMENTS CONSISTING OF COATS, PANTS, AND VESTS, OVERCOATS, AND TOP-COATS. LEVY & SCHILT, New York, N. Y.
Filed April 26, 1919. Serial No. 117,883. PUBLISHED DECEMBER 2, 1919.

130,343. MEN'S OUTER GARMENTS CONSISTING OF COAT, PANTS, AND VEST, OVERCOATS, AND TOP-COATS. LEVY & SCHILT, New York, N. Y.
Filed April 26, 1919. Serial No. 117,884. PUBLISHED DECEMBER 30, 1919.

130,344. LOGARITHMIC-SCALE COMPUTING DEVICES. LEWIS, CONNORS & COMPANY, Chicago, Ill.
Filed September 5, 1919. Serial No. 122,662. PUBLISHED JANUARY 6, 1920.

130,345. TIRE GRIP-CHAINS. LIBERTY CHAIN COMPANY, Aberdeen, S. D.
Filed June 28, 1919. Serial No. 120,058. PUBLISHED DECEMBER 2, 1919.

130,346. KNITTED CAPS AND MUFFLERS. THE LION KNITTING MILLS CO., Cleveland, Ohio.
Filed July 28, 1919. Serial No. 120,999. PUBLISHED DECEMBER 2, 1919.

130,347. PRINTING-PRESSES AND PARTS THEREOF. LISENBY MANUFACTURING COMPANY, Fresno, Calif.
Filed August 21, 1919. Serial No. 121,867. PUBLISHED DECEMBER 30, 1919.

130,348. [WITHDRAWN.]

130,349. CAKES, WAFERS, AND CRACKERS OR BISCUITS. LOOSE-WILES BISCUIT COMPANY, New York, N. Y.
Filed August 21, 1919. Serial No. 121,869. PUBLISHED JANUARY 13, 1920.

130,350. CAKES, WAFERS, AND CRACKERS OR BISCUITS. LOOSE-WILES BISCUIT COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,941. PUBLISHED JANUARY 13, 1920.

130,351. TEXTILE FABRICS. LORTEX COMPANY, New York, N. Y.
Filed August 9, 1919. Serial No. 121,477. PUBLISHED JANUARY 13, 1920.

130,352. TIRE-PATCHES. PEARL E. LOWN, Oklahoma, Okla.
Filed August 30, 1919. Serial No. 122,177. PUBLISHED DECEMBER 30, 1919.

130,353. CORSETS. MARIE BRUCKNER MACDONALD, Toledo, Ohio.
Filed May 5, 1917. Serial No. 103,552. PUBLISHED JULY 15, 1919.

130,354. LEATHER AND CANVAS SHOES. R. H. MACY & CO., New York, N. Y.
Filed April 10, 1917. Serial No. 102,869. PUBLISHED DECEMBER 30, 1919.

130,355. HOSIERY FOR BOYS AND GIRLS. MANDEL & COHEN, New York, N. Y.
Filed October 10, 1919. Serial No. 123,653. PUBLISHED JANUARY 13, 1920.

130,356. WOOD AND STEEL SHELL TACKLE-BLOCKS. MARINE EQUIPMENT & SUPPLY CO., Philadelphia, Pa.
Filed August 20, 1919. Serial No. 121,839. PUBLISHED DECEMBER 30, 1919.

130,357. CHEESE AND BUTTER. MARRÉ & COMPANY, Buenos Aires, Argentina.
Filed August 4, 1917. Serial No. 105,482. PUBLISHED JANUARY 20, 1920.

130,358. PINS, SAFETY-PINS, HAIRPINS, SNAP-FASTENERS, AND HOOKS AND EYES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 24, 1919. Serial No. 125,225. PUBLISHED JANUARY 13, 1920.

130,359. BEARINGS FOR MOVING PARTS OF MACHINES. MASSACHUSETTS OILLESS BEARINGS COMPANY, Worcester, Mass.
Filed September 25, 1919. Serial No. 123,130. PUBLISHED DECEMBER 30, 1919.

130,360. BEARINGS FOR MOVING PARTS OF MACHINES. MASSACHUSETTS OILLESS BEARINGS COMPANY, Worcester, Mass.
Filed September 25, 1919. Serial No. 123,131. PUBLISHED DECEMBER 30, 1919.

130,361. CERTAIN NAMED AGRICULTURAL MACHINERY. MASSEY-HARRIS HARVESTER CO. INC., Batavia, N. Y.
Filed March 24, 1919. Serial No. 116,844. PUBLISHED NOVEMBER 25, 1919.

130,362. CANDY. MELVIN CANDY CO., Chicago, Ill.
Filed July 7, 1919. Serial No. 120,314. PUBLISHED DECEMBER 9, 1919.

130,363. CONDENSED SKIMMED MILK. J. MENIST COMPANY, New York, N. Y.
Filed October 2, 1919. Serial No. 123,357. PUBLISHED DECEMBER 30, 1919.

130,364. CANNED FRUITS AND CANNED VEGETABLES. J. MENIST COMPANY INC., New York, N. Y.
Filed October 20, 1919. Serial No. 124,003. PUBLISHED DECEMBER 30, 1919.

130,365. FRESH, DRIED, AND CANNED OYSTERS. NARRAGANSETT BAY OYSTER CO., Providence, R. I.
Filed May 17, 1917. Serial No. 103,898. PUBLISHED JANUARY 6, 1920.

130,366. FRESH, DRIED, AND CANNED OYSTERS. NARRAGANSETT BAY OYSTER CO., Providence, R. I.
Filed May 17, 1917. Serial No. 103,899. PUBLISHED JANUARY 6, 1920.

130,367. ELECTRICAL APPLIANCES—TO WIT, MAGNETOS. THE NATIONAL CLUTCH COMPANY, INC., Greenburg township, Irvington-on-Hudson, N. Y.
Filed May 12, 1919. Serial No. 118,397. PUBLISHED NOVEMBER 25, 1919.

130,368. DRESSED POULTRY. NATIONAL POULTRY CO., Los Angeles, Calif.
Filed April 17, 1919. Serial No. 117,569. PUBLISHED JANUARY 6, 1920.

130,369. SHEETS, PILLOW-CASES, AND BOLSTER-CASES. NAUMKEAG STEAM COTTON CO., Salem, Mass.
Filed September 18, 1919. Serial No. 122,847. PUBLISHED JANUARY 13, 1920.

130,370. SHEETS AND PILLOW-CASES. NAUMKEAG STEAM COTTON CO., Salem, Mass.
Filed September 19, 1919. Serial No. 122,905. PUBLISHED JANUARY 13, 1920.

130,371. COTTON PIECE GOODS. NAUMKEAG STEAM COTTON CO., Salem, Mass.
Filed September 19, 1919. Serial No. 122,906. PUBLISHED JANUARY 13, 1920.

130,372. CANNED SARDINES. NEPTUNE SEA FOOD CO., San Diego, Calif.
Filed September 16, 1919. Serial No. 122,781. PUBLISHED DECEMBER 9, 1919.

130,373. CHOCOLATE, COCOA, AND POWDERED MILK. DAVID NEUMAN, Wilkes-Barre, Pa.
Filed August 26, 1919. Serial No. 122,022. PUBLISHED JANUARY 13, 1920.

130,374. TOMATO PASTE. NEW CENTRAL CANNING CO., INC., New Orleans, La.
Filed November 3, 1919. Serial No. 124,489. PUBLISHED DECEMBER 30, 1919.

130,375. ROOFING PRODUCTS—VIZ., PITCH, FELT, CEMENT, SHEATHING, AND WATERPROOF PAPER. NEW ENGLAND FELT ROOFING WORKS, Boston, Mass.
Filed September 20, 1919. Serial No. 122,946. PUBLISHED JANUARY 13, 1920.

130,376. POCKET-KNIVES AND MEAT-CARVING SETS. NEW JERSEY CUTLERY CO. INC., Newark, N. J.
Filed September 18, 1919. Serial No. 122,849. PUBLISHED DECEMBER 30, 1919.

130,377. AUTOMOBILES AND AUTOMOBILE-BODIES. NOMA MOTOR CORPORATION, New York, N. Y.
Filed November 17, 1919. Serial No. 125,014. PUBLISHED JANUARY 20, 1920.

130,378. TABLE-SYRUP. THE NULOMOLINE COMPANY, New York, N. Y.
Filed July 15, 1919. Serial No. 120,577. PUBLISHED JANUARY 6, 1920.

130,379. LADIES' WAISTS AND DRESSES. OCHS & FRANK, Baltimore, Md.
Filed October 2, 1919. Serial No. 123,361. PUBLISHED JANUARY 6, 1920.

130,380. WOMEN'S HATS. OGUS, RABINOVICH & OGUS COMPANY, Chicago, Ill.
Filed September 18, 1919. Serial No. 122,851. PUBLISHED FEBRUARY 3, 1920.

130,381. VALVES FOR GENERAL USE AND PARTS THEREOF. O'MALLEY-BEARE VALVE CO., Chicago, Ill.
Filed May 29, 1919. Serial No. 119,045. PUBLISHED NOVEMBER 25, 1919.

130,382. CERTAIN NAMED FLAT-WARE PLATED WITH PRECIOUS METAL. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed September 25, 1919. Serial No. 123,137. PUBLISHED FEBRUARY 3, 1920.

130,383. STOCK FEED. OWENSBORO PRODUCTS COMPANY, Owensboro, Ky.
Filed September 22, 1919. Serial No. 122,995. PUBLISHED JANUARY 27, 1920.

130,384. TRACTORS AND TRACTOR PARTS. JAMES D. PARK, Chicago, Ill.
Filed August 11, 1919. Serial No. 121,540. PUBLISHED NOVEMBER 25, 1919.

130,385. ELECTRIC WATER-HEATERS. PEWELCO SALES CO., Seattle, Wash.
Filed July 29, 1918. Serial No. 112,404. PUBLISHED NOVEMBER 4, 1919.

130,386. GYMNASIUM-BLOOMERS. J. PFRENGER SONS, Brooklyn, N. Y.
Filed September 5, 1919. Serial No. 122,365. PUBLISHED FEBRUARY 3, 1920.

130,387. SWEATERS. PHILLIPS-DOSCHER CORPORATION, New York, N. Y.
Filed September 15, 1919. Serial No. 122,726. PUBLISHED FEBRUARY 3, 1920.

130,388. DRESS, NEGLIGÉE, AND WORK SHIRTS. PIEDMONT SHIRT CO., New York, N. Y.
Filed July 15, 1919. Serial No. 120,579. PUBLISHED FEBRUARY 3, 1920.

130,389. BUCKWHEAT PANCAKE-FLOUR, WHEAT CEREAL, PANCAKE-FLOUR, AND HEALTH-BRAN. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed September 2, 1919. Serial No. 122,227. PUBLISHED JANUARY 27, 1920.

130,390. FOOT-PADS FOR BOOTS AND SHOES. A. BUCKLAND PLUMMER, Chicago, Ill.
Filed July 2, 1919. Serial No. 120,222. PUBLISHED JANUARY 6, 1920.

130,391. MOTION-PICTURE FILMS. REALART PICTURES CORPORATION, New York, N. Y.
Filed July 31, 1919. Serial No. 121,158. PUBLISHED NOVEMBER 18, 1919.

130,392. SUPPORTS FOR TELEPHONE-RECEIVERS. MAX V. REINER, South Bethlehem, Pa.
Filed August 6, 1919. Serial No. 121,317. PUBLISHED DECEMBER 9, 1919.

130,393. PLASTIC COMPOSITION FOR MODELING. EMILE REIZENSTEIN, Waltham, Mass.
Filed October 11, 1919. Serial No. 123,714. PUBLISHED JANUARY 6, 1920.

130,394. SHOE-SOLES AT PRESENT MADE OF RUBBER AND FIBER. REVERE RUBBER COMPANY, Providence, R. I., and Chelsea, Mass.
Filed August 12, 1919. Serial No. 121,605. PUBLISHED JANUARY 20, 1920.

130,395. AEROPLANES AND PARTS, AIR-SCREWS, SHOCK-ABSORBERS, UNDERCARRIAGES; SEATS, (METAL, WOODEN, COMPOSITE, OR OTHER;) WIND-SCREENS, COVER-CLIPS, STRUT-SOCKETS. A. V. ROE & CO., LTD., Manchester, England.
Filed September 3, 1919. Serial No. 122,264. PUBLISHED DECEMBER 16, 1919.

130,396. COFFEE. THE ROGERS COMPANY, Tacoma, Wash.
Filed March 7, 1918. Serial No. 109,432. PUBLISHED DECEMBER 30, 1919.

130,397. VALVE-LIFTING TOOLS FOR INTERNAL-COMBUSTION ENGINES. AUGUST C. ROSENBROOK, Madison, Wis.
Filed May 8, 1919. Serial No. 118,279. PUBLISHED DECEMBER 2, 1919.

130,398. AUTOMOBILE-STEERING-POST-LOCKING DEVICES. RUSSELL SALES CO., Newark, N. J.
Filed April 25, 1919. Serial No. 117,855. PUBLISHED DECEMBER 16, 1919.

130,399. FRESH CITRUS FRUITS—NAMELY, ORANGES. RYAN FRUIT COMPANY, Seattle, Wash.
Filed October 20, 1919. Serial No. 124,009. PUBLISHED DECEMBER 30, 1919.

130,400. COMPOSITION ROOFING IN ROLLS AND COMPOSITION ROOFING-SHINGLES. SAFEPACK MILLS, Boston, Mass.
Filed November 17, 1919. Serial No. 125,024. PUBLISHED JANUARY 13, 1920.

130,401. COMPOSITION ROOFING IN ROLLS AND COMPOSITION ROOFING-SHINGLES. SAFEPACK MILLS, Boston, Mass.
Filed November 17, 1919. Serial No. 125,025. PUBLISHED JANUARY 13, 1920.

130,402. PHONOGRAPHS AND TALKING-MACHINES. FRED S. SAMMEL, Bedford, Pa.
Filed September 26, 1919. Serial No. 123,176. PUBLISHED FEBRUARY 3, 1920.

130,403. FOOD-FLAVORING EXTRACTS. THE C. F. SAUER CO., Richmond, Va.
Filed October 27, 1917. Serial No. 106,998. PUBLISHED JANUARY 6, 1920.

130,404. COTTON SEWING-THREADS. SEAMANS & COBB CO., Boston, Mass.
Filed November 17, 1919. Serial No. 125,029. PUBLISHED JANUARY 20, 1920.

130,405. WASHING FLUID FOR CLOTHES. JOHN SCHMITZ, Cleveland, Ohio.
Filed June 21, 1918. Serial No. 111,739. PUBLISHED NOVEMBER 4, 1919.

130,406. ELECTRIC HEADLIGHTS (NOT INCLUDING LAMPS THEREFOR) AND TURBO-GENERATORS. SCHROEDER HEADLIGHT & GENERATOR CO., Evansville, Ind.
Filed August 8, 1919. Serial No. 121,423. PUBLISHED FEBRUARY 3, 1920.

130,407. ELECTRIC HEADLIGHTS AND TURBO-GENERATORS SOLD EITHER SEPARATELY OR AS A COMBINED UNIT. SCHROEDER HEADLIGHT & GENERATOR CO., Evansville, Ind.
Filed August 8, 1919. Serial No. 121,424. PUBLISHED JANUARY 6, 1920.

130,408. WATCHES. M. SCHUSSLER & CO., San Francisco, Calif.
Filed July 29, 1918. Serial No. 112,414. PUBLISHED OCTOBER 7, 1919.

130,409. HOSE FOR MEN, WOMEN, AND CHILDREN. SLATEDALE KNITTING MILLS, Harrisburg, Pa.
Filed October 10, 1919. Serial No. 123,669. PUBLISHED JANUARY 13, 1920.

130,410. HOSE FOR MEN, WOMEN, AND CHILDREN. SLATEDALE KNITTING MILLS, Harrisburg, Pa.
Filed October 10, 1919. Serial No. 123,670. PUBLISHED JANUARY 13, 1920.

130,411. CANDY. HUGH C. SMALL, Chicago, Ill.
Filed August 28, 1919. Serial No. 122,091. PUBLISHED DECEMBER 9, 1919.

130,412. WHEAT-FLOUR. SPERRY FLOUR COMPANY, San Francisco, Calif.
Filed August 20, 1918. Serial No. 112,807. PUBLISHED DECEMBER 30, 1919.

130,413. CORSETS. STANDARD CORSET COMPANY, Newark, N. J.
Filed November 12, 1919. Serial No. 124,818. PUBLISHED FEBRUARY 3, 1920.

130,414. UPPER-LEATHERS. STANDARD KID MANUFACTURING COMPANY, Boston, Mass.
Filed July 25, 1919. Serial No. 120,941. PUBLISHED NOVEMBER 18, 1919.

130,415. OVERALLS. THE STANDARD TENT & AWNING CO., Toledo, Ohio.
Filed July 25, 1919. Serial No. 120,935. PUBLISHED FEBRUARY 3, 1920.

130,416. FEATHERS. STAR BEDDING COMPANY, St. Louis, Mo.
Filed September 9, 1919. Serial No. 122,504. PUBLISHED JANUARY 6, 1920.

130,417. CATSUP, CANNED VEGETABLES, AND CANNED FRUITS. STERLING PRODUCTS CO., Evansville, Ind.
Filed October 9, 1918. Serial No. 113,636. PUBLISHED JANUARY 6, 1920.

130,418. SOFT AND STIFF FELT HATS AND CAPS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed March 23, 1917. Serial No. 102,390. PUBLISHED DECEMBER 23, 1919.

130,419. LEATHER AND FABRIC LEGGINGS. FLOYD J. STEWART, Centerville, Iowa.
Filed June 26, 1919. Serial No. 119,990. PUBLISHED JANUARY 27, 1920.

130,420. ANCHOR-SOCKETS FOR SCREWS. THE STINE SCREW HOLES COMPANY, Waterbury, Conn.
Filed September 30, 1919. Serial No. 123,292. PUBLISHED DECEMBER 30, 1919.

130,421. RICE. STUTTGART RICE MILL COMPANY, Stuttgart, Ark.
Filed October 20, 1919. Serial No. 124,021. PUBLISHED DECEMBER 30, 1919.

130,422. SHELLED PEANUTS AND UNSHELLED PEANUTS. HENRY CLAY SULLIVAN, Hertford, N. C.
Filed July 19, 1919. Serial No. 120,719. PUBLISHED DECEMBER 9, 1919.

130,423. SHADE-CLOTH. TALBERT-WHITMORE COMPANY, Los Angeles, Calif.
Filed October 6, 1919. Serial No. 123,505. PUBLISHED DECEMBER 16, 1919.

130,424. RICE, PICKLES, AND OLIVES. TOLERTON & WARFIELD CO., Sioux City, Iowa.
Filed August 18, 1917. Serial No. 105,724. PUBLISHED JANUARY 6, 1920.

130,425. CHILDREN'S AND MEN'S CLOTH CAPS. CHAS. TOBIAS BRO. & COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,085. PUBLISHED FEBRUARY 3, 1920.

130,426. CHILDREN'S AND MEN'S CLOTH HATS AND CHILDREN'S CAPS OF VARIOUS MATERIALS. CHAS. TOBIAS BRO. & COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,086. PUBLISHED FEBRUARY 3, 1920.

130,427. MEN'S AND CHILDREN'S HATS OF VARIOUS MATERIALS. CHAS. TOBIAS BRO. & COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,087. PUBLISHED FEBRUARY 3, 1920.

130,428. CERTAIN NAMED FOODS. THE UNION PACIFIC TEA CO., New York, N. Y.
Filed March 7, 1917. Serial No. 101,973. PUBLISHED JANUARY 6, 1920.

130,429. AUTO-LENSES. UNIQUE AUTO SPECIALTIES CO., San Francisco, Calif.
Filed August 27, 1919. Serial No. 122,066. PUBLISHED JANUARY 6, 1920.

130,430. HOSIERY. VANITY FAIR SILK MILLS, Reading, Pa.
Filed November 7, 1919. Serial No. 124,674. PUBLISHED FEBRUARY 3, 1920.

130,431. SPARK-INTENSIFIERS FOR SPARK-PLUGS FOR INTERNAL-COMBUSTION ENGINES FOR INTENSIFYING THE SPARK. ALLISON K. VAN NAMEE, Indianapolis, Ind.
Filed July 15, 1919. Serial No. 120,584. PUBLISHED NOVEMBER 4, 1919.

130,432. FOUNTAIN-PENS AND PARTS THEREOF. THE WAHL COMPANY, Chicago, Ill.
Filed October 31, 1919. Serial No. 124,427. PUBLISHED FEBRUARY 3, 1920.

130,433. PREPARED ROOFINGS. A. B. WAINWRIGHT COMPANY, Philadelphia, Pa.
Filed November 11, 1919. Serial No. 124,771. PUBLISHED JANUARY 13, 1920.

130,434. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,083. PUBLISHED DECEMBER 30, 1919.

130,435. PLACKET AND GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS NOT MADE OF PRECIOUS METAL. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,096. PUBLISHED DECEMBER 30, 1919.

130,436. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. WALDES & CO., Prague, Bohemia.
Filed August 11, 1919. Serial No. 121,558. PUBLISHED DECEMBER 30, 1919.

130,437. WATCH MATERIALS—NAMELY, ALL PARTS OF A WATCH—WATCHES, AND WATCHCASES. WALTHAM WATCH COMPANY, Waltham, Mass.
Filed June 5, 1919. Serial No. 119,256. PUBLISHED NOVEMBER 11, 1919.

130,438. HOSE-SUPPORTERS. THE WARNER BROS. CO., Bridgeport, Conn.
Filed November 10, 1919. Serial No. 124,742. PUBLISHED JANUARY 13, 1920.

130,439. CANNED SUGAR-CORN. WARRENSBURG CANNING COMPANY, Warrensburg, Ill.
Filed October 2, 1919. Serial No. 123,376. PUBLISHED DECEMBER 30, 1919.

130,440. CANNED CORN AND CANNED PEAS. WATERLOO CANNING ASSOCIATION, Waterloo, Wis.
Filed October 10, 1918. Serial No. 113,682. PUBLISHED JANUARY 6, 1920.

130,441. FIELD-SEEDS. N. WERTHEIMER & SONS, Ligonier, Ind.
Filed August 9, 1919. Serial No. 121,509. PUBLISHED JANUARY 20, 1920.

130,442. SILK AND VELVET RIBBONS. WERTHEIMER BROS., New York, N. Y.
Filed September 12, 1919. Serial No. 122,620. PUBLISHED JANUARY 13, 1920.

130,443. FINE WRITING-PAPER. WHITING PAPER COMPANY, Holyoke, Mass.
Filed March 24, 1919. Serial No. 116,863. PUBLISHED FEBRUARY 3, 1920.

130,444. LEDGER-PAPER, BOND AND LINEN WRITING-PAPER, AND MAILING-ENVELOPS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed August 29, 1919. Serial No. 122,144. PUBLISHED JANUARY 27, 1920.

130,445. PREPARED ROOFING IN ROLL, SHEET, OR SHINGLE FORM. WILDERITE ROOFING COMPANY, Cleveland, Ohio.
Filed August 20, 1919. Serial No. 121,853. PUBLISHED DECEMBER 23, 1919.

130,446. CERTAIN NAMED FOODS. WILSON & CO., INC., Chicago, Ill.
Filed March 23, 1917. Serial No. 102,397. PUBLISHED DECEMBER 30, 1919.

130,447. HAND BILGE-WATER PUMPS FOR BOATS. RANDOLPH T. WINDLE, New York, N. Y.
Filed February 15, 1919. Serial No. 115,890. PUBLISHED DECEMBER 2, 1919.

130,448. MOTOR-TRUCKS. WINTHER MOTOR TRUCK COMPANY, Kenosha, Wis.
Filed December 4, 1918. Serial No. 114,490. PUBLISHED JANUARY 6, 1920.

130,449. STORAGE BATTERIES. YANKEE BATTERY MANUFACTURING CO., San Diego, Calif.
Filed May 16, 1919. Serial No. 118,578. PUBLISHED NOVEMBER 11, 1919.

130,450. NAVAL UNIFORMS. SAMUEL ZAGOREN, Brooklyn, N. Y.
Filed September 18, 1919. Serial No. 122,870. PUBLISHED FEBRUARY 3, 1920.

TRADE-MARK REGISTRATIONS CANCELED

122,738. SYNTHETIC LINSEED-OIL USED FOR MAKING CORES FOR CASTINGS. PENNSYLVANIA LINSEED PRODUCTS COMPANY, Pittsburgh, Pa.
Registered September 10, 1918. Canceled February 18, 1920.

119,321. WOVEN MACHINERY-BELTING. JEWELL BELTING CO., Hartford, Conn.
Registered November 13, 1917. Canceled October 10, 1919.

109,428. WATER. TRIPURE WATER SYSTEMS COMPANY, Washington, D. C.
Registered April 4, 1916. Canceled December 2, 1919.

110,031. WATER AND SOFT DRINKS. TRIPURE WATER SYSTEMS COMPANY, Washington, D. C.
Registered May 2, 1916. Canceled December 2, 1919.

126,110. CANNED SWEETENED CONDENSED MILK. WHEAT'S ICE CREAM COMPANY, Buffalo, N. Y.
Registered July 22, 1919. Canceled November 14, 1919.

99,067. FERTILIZERS. F. S. ROYSTER GUANO CO., Norfolk, Va.
Registered August 11, 1914. Canceled December 2, 1919.

40,771. CONFECTIONS. THE CERO-FRUTO FOOD CO., Battle Creek, Mich.
Registered July 14, 1903. Canceled January 21, 1920.

101,698. VEGETABLE-OIL SOAP, MECHANIC'S SOAP, AND METAL-POLISH. THE HAWKEYE OIL COMPANY, Waterloo, Iowa.
Registered November 10, 1914. Canceled February 18, 1920.

18,846. GLOVES. ALICE L. VROOMAN WOOD, Minneapolis, Minn.
Registered January 13, 1891. Canceled January 6, 1920.

17,935. RIBBONS. A. & S. BLUMENTHAL, New York, N. Y.
Registered May 20, 1890. Canceled October 9, 1919.

LABELS

REGISTERED APRIL 20, 1920.

21,805.—*Title:* "PANAMA SOAP." (For Soap.) R. W. BAKER, San Jose, Calif. Filed July 31, 1919.

21,806.—*Title:* "BARLOW-KIMNET." (For Metal and Wood Display, Wax Figures, Forms, and Store-Display Equipment.) THE BARLOW-KIMNET CO., New York, N. Y. Filed October 28, 1919.

21,807.—*Title:* "HANDY CANDY LICORICE." (For Licorice Tablets.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed June 4, 1919.

21,808.—*Title:* "BOWMAN'S NU-LIK-BRAND AUTO FINISHES ECLIPSE AUTO TOP WATERPROOFING." (For a Dressing.) JOSEPH A. BOWMAN, Columbus, Ohio. Filed May 27, 1919.

21,809.—*Title:* "LOU-AU-GENE HAIR GROWER." (For a Hair-Grower.) Mrs. MAY LOUISE BROOKINS, Okmulgee, Okla. Filed October 18, 1919.

21,810.—*Title:* "LOU-AU-GENE PRESSING OIL." (For a Hair-Dressing.) Mrs. MAY LOUISE BROOKINS, Okmulgee, Okla. Filed October 18, 1919.

21,811.—*Title:* "LOU-AU-GENE SKIN BLEACH." (For a Cream for Clearing the Skin.) Mrs. MAY LOUISE BROOKINS, Okmulgee, Okla. Filed October 18, 1919.

21,812.—*Title:* "CREAM OF CANE." (For Syrup.) J. RALSTON CARGILL, Americus, Ga. Filed October 15, 1919.

21,813.—*Title:* "ODORLAC FOOT-EASE POWDER CO." (For a Foot-Powder.) SAMUEL CEITLIN, Philadelphia, Pa. Filed March 26, 1919.

21,814.—*Title:* "LIME CHARMS." (For Fruit Tablets — Namely, Charms, Lemon Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,815.—*Title:* "WILD CHERRY CHARMS." (For Fruit Tablets — Namely, Charms, Wild-Cherry Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,816.—*Title:* "LEMON CHARMS." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,817.—*Title:* "GRAPE CHARMS." (For Fruit Tablets—Namely, Charms, Grape Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,818.—*Title:* "CLOVE CHARMS." (For Fruit Tablets—Namely, Charms, Clove Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,819.—*Title:* "PEACH CHARMS." (For Fruit Tablets—Namely, Charms, Peach Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,820.—*Title:* "ORANGE CHARMS." (For Fruit Tablets—Namely, Charms, Orange Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,821.—*Title:* "YAKIVAL." (For Apples.) CLOUD-THOMAS CO., Yakima, Wash. Filed November 4, 1919.

21,822.—*Title:* "FISHER'S W J F." (For Cigars.) WILLIAM J. FISHER & CO., Boston, Mass. Filed October 30, 1919.

21,823.—*Title:* "THE FINISHING TOUCH." (For Unicum Hair-Nets.) THEO. H. GARY CO., New York, N. Y. Filed July 21, 1919.

21,824.—*Title:* "LIKSOM DELICIOUS BREAD." (For Bread.) CLARENCE D. GRAVES, Springfield, Ill. Filed June 21, 1919.

21,825.—*Title:* "THRIFT." (For Paint.) THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio. Filed October 11, 1919.

21,826.—*Title:* "TUBE-LOCK." (For Patches for Rubber Tires, &c.) KREIDER AUTO NEEDS CO., Reading, Pa. Filed October 7, 1919.

21,827.—*Title:* "SUPREME." (For Oranges, Grape-Fruit, and Tangerines.) LAKE REEDY PACKING COMPANY, Frostproof, Fla. Filed September 19, 1919.

21,828.—*Title:* "MONTE CARLO BRAND." (For Oranges, Grape-Fruits, and Tangerines.) LAKE REEDY PACKING COMPANY, Frostproof, Fla. Filed September 19, 1919.

21,829.—*Title:* "69." (For a Medicine.) B. V. LARES, Minneapolis, Minn. Filed July 19, 1919.

21,830.—*Title:* "LASKE'S NATURAL LEAF CLIPPINGS." (For Tobacco-Clippings.) JULIUS LASKE, New Haven, Conn. Filed December 26, 1919.

21,831.—*Title:* "MID-VALLEY BRAND MAINE STYLE SWEET CORN." (For Sweet Corn.) MIDDLETOWN PACKING CO., Middletown, Md. Filed October 30, 1919.

21,832.—*Title:* "GOODIES." (For Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 10, 1919.

21,833.—*Title:* "SUPERYARN." (For Yarn.) YARN CLEARING HOUSE, New York, N. Y. Filed August 4, 1919.

21,834.—*Title:* "ROBERTS TURKEY BRAND CORNED MEATS." (For Cooked Corned Meats.) G. H. ROBERTS, San Francisco, Calif. Filed August 25, 1919.

21,835.—*Title:* "CHIEF JOSEPH." (For Fresh Fruits.) RYAN FRUIT CO., Seattle, Wash. Filed November 4, 1919.

21,836.—*Title:* "100%." (For Oranges.) RYAN FRUIT CO., Seattle, Wash. Filed November 4, 1919.

21,837.—*Title:* "BAKER'S PRIDE." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed September 19, 1919.

21,838.—*Title:* "RED SEAL." (For Malt Syrup.) WESTERN MALT PRODUCTS CO., Pueblo, Colo. Filed October 9, 1919.

21,839.—*Title:* "SMITH'S HAND-MADE CANDY. (For Candy.) E. A. SMITH, Tifton, Ga. Filed June 30, 1919.

21,840.—*Title:* "WALTON'S SEARCHLIGHT WHEAT HEARTS." (For a Cereal Food—Namely, Wheat Hearts.) WALTON MILLING COMPANY, Lansing, Mich. Filed June 20, 1919.

21,841.—*Title:* "JACK-O-DANDY." (For Candies—Namely, Suckers.) WEBER-SCHLITZ CANDY COMPANY, Milwaukee, Wis. Filed November 5, 1919.

21,842.—*Title:* "PEACHLADE." (For Bread, Toast, and Muffins.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed October 2, 1919.

21,843.—*Title:* "GRAPELADE." (For a spread for Bread, Toast, and Biscuit.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed October 2, 1919.

PRINTS

REGISTERED APRIL 20, 1920.

5,245.—*Title:* "VIRGINIA FAIRY OR LUCKY STONE CO." (For Virginia Fairy or Lucky Stones.) E. E. HALEY, Richmond, Va. Filed May 23, 1918.

5,246.—*Title:* "THE NEW SERIES HAYNES POSSESSES FOUR VITAL FACTORS." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed August 9, 1919.

5,247.—*Title:* "THE HAYNES SEDAN." (For Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed Aug. 9, 1919.

5,248.—*Title:* "A MATTER OF GOOD TASTE." (For Chocolates.) JOHNSON BISCUIT COMPANY, Sioux City, Iowa. Filed October 25, 1919.

5,249.—*Title:* "ANGELUS MARSHMALLOWS." (For Marshmallows.) RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill. Filed September 22, 1919.

5,250.—*Title:* "PALZO THE GREAT AMERICAN CLEANER." (For a Cleaner.) RUNYAN CHEMICAL PRODUCTS CO., Omaha, Nebr. Filed September 19, 1919.

5,251.—*Title:* "TAKING CARE OF BALL BEARINGS OF OUR A-B-C GRINDING LINE." (For Ball bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed November 24, 1919.

5,252.—*Title:* "SYSTEM CLEANERS." (For Laxative Tablets.) SEPTOLE HYGIENE CO., Baltimore, Md. Filed November 3, 1919.

5,253.—*Title:* "OAK." (For Oak Flooring.) OAK FLOORING MANUFACTURING ASSOCIATION, Chicago, Ill. Filed June 23, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

WEGNER *v.* BOBBITT.

Decided February 2, 1920.

PATENTS—APPEAL TO COURT OF APPEALS OF THE DISTRICT OF COLUMBIA DISMISSED FOR FAILURE TO FILE BRIEF.

Motion to dismiss an appeal for failure to file a brief within the time specified granted under Rule 8 (sec. 4 *b*) of the Rules of the Court of Appeals of the District of Columbia.

Mr. Wm. F. Hall for appellant.

Mr. Bruce S. Elliott for the appellee.

SMYTH, *C. J.*:

Wegner appeals from a decision of the Commissioner of Patents, awarding priority to Bobbitt, in an interference relating to a dust-collector. On December 28, 1918, the record on appeal was filed in this court, and was printed March 1, 1919. Wegner's time for filing his brief was, on his application, extended to September 1, 1919, but he failed to file one within the time allowed. The appeal was set for hearing on January 12th last, and due notice given to him of the fact. He has taken no action. Appellee moves to dismiss because no brief has been filed by Wegner. Rule 8 (sec. 4 *b*) of this court says that for failure to file a brief within the specified time "the appeal may be dismissed." In consequence, we must sustain the motion. This we do with less reluctance than we would otherwise feel since the three tribunals of the Patent Office unite in holding against Wegner on a question of fact.

The appeal is dismissed.

Court of Appeals of the District of Columbia.

PHILLIPS *v.* HUDNUT AND MACK.

Decided March 1, 1920.

1. TRADE-MARKS—ACQUISITION—EXTENT OF USE NECESSARY.

The use of a mark on a few sample-boxes of toilet powder, three of which were consigned to dealers in different parts of the country without previous request by them, for which there was paid only five cents for a box intended to sell at fifty cents, does not constitute such a use of the mark as to establish any property rights therein.

2. SAME—SAME—GENERAL RULES AS TO ACQUISITION.

The common law, and not the trade-mark statutes, defines what constitutes a trade-mark. The trade-mark recognized by the common law is generally the outgrowth of a considerable period of use rather than a sudden invention. The exclusive right to it grows out of its use and not its mere adoption. (*Trade Mark Cases*, 100 U. S., 82, 84.) The trader must apply the mark to a vendible commodity and must actually put the commodity so marked on the market.

3. SAME—APPEAL AND ERROR—QUESTIONS FOR REVIEW.

In a trade-mark interference proceeding involving the three parties H., M., and P., where it is adjudged by the Patent Office that H. was the first to adopt and use the mark, on appeal by P. to the court of appeals he is not entitled to be heard on the question whether the decision properly awarded priority to H. over M.

4. SAME—SAME—REVIEW OF QUESTION NOT APPEALED.

In a three-party interference involving the application of H. and the registrations of M. and P., the Examiner of Interferences held that the marks were the same and awarded priority to H. After the decision was announced H. filed a motion requesting the Examiner of Interferences to adjudge that P. was not entitled to the use of the mark at the date of his application for registration, which was denied, from which H. failed to appeal. On P.'s appeal the Commissioner reviewed this action and reversed it, ordering the cancelation of P.'s registration. This was error, as H. did not appeal, and the question was therefore not before the Commissioner.

Mr. Jos. L. Levy for the appellant.

Mr. C. E. Dunn and *Mr. Nicholas M. Goodlett* for the appellee.

SMYTH, *C. J.*:

This is an interference involving the right of Hudnut to obtain the registration of the word "Nara" as trade-mark for toilet articles such as talcum, sachet, and face powder. Phillips had registered the word "Nyra" and Mack the word "Myra" as marks for goods of the same descriptive properties. The Examiner of Interferences held that the respective marks were one and the same, and awarded priority to Hudnut. He was affirmed by the Assistant Commissioner. After the decision of priority was announced by the Examiner, Hudnut filed a motion requesting him to adjudge that Phillips was not entitled to the use of the mark at the date of his application for registration. This was denied. Hudnut failed to appeal. However, the Assistant Commissioner reviewed the action of the Examiner in this regard on Phillips's appeal and reversed it.

It is clearly established that Hudnut adopted the mark in question in September, 1914, and used it continuously thereafter. Phillips claims May, 1914, as the time he commenced the use of the mark.

In that month he had no established place of business, but made some sample boxes of toilet powder, placed upon them the mark here involved, and then forwarded them from New York through the house for which he was then working to three dealers in goods of that character, one in Texas, one in Philadelphia and one in New Orleans. The boxes were sent without previous request by the consignees, and the price paid for each was five cents, the usual sale price of such an article being about fifty cents.

No other use of the mark was made by him until 1916. The Assistant Commissioner held that this was not—

a bona fide business transaction, was not doing business on Phillips's part, and was a mere laying basis for the filing of his application for registration, and created no trade-mark rights in Phillips.

The right to a trade-mark exists independently of the statute. Registration simply constitutes prima facie evidence that the registrant is entitled to the mark. (*Fulton Water Works Co.* v. *Bear Lithia Spring Co.*, 47 App., D. C., 438.) The trade-mark statute (sec. 1, 33 Stat., 724) does not define what constitutes a trade-mark. We must go to the common law for that.

The trade-mark recognized by the common law is generally the outgrowth of a considerable period of use rather than a sudden invention * * *. The exclusive right to it grows out of its *use* and not its mere adoption. (*Trade Mark Cases*, 100 U. S., 82, 94; *Macmahan Pharmacal Co.* v. *Denver Chemical Mfg. Co.*, 113 Fed., 468, 472. *American Washboard Co.* v. *Saginaw Mfg. Co.*, 103 Fed., 281, 287.)

According to an authority cited by the appellant, the trader must apply the mark to a vendible commodity and "must actually put the commodity so marked on the market." (Nims on Unfair Competition and Trade-Marks, 2d ed., sec. 216.) In the light of these authorities we are persuaded that the Assistant Commissioner was right in holding that the use made by Phillips of the mark does not satisfy the statute. This being so, Hudnut is entitled to priority over him.

Phillips complains because of the action of the Office with respect to Mack, but concerning this he has no right to be heard. What matters it to him if, perchance, Mack is entitled to priority over Hudnut since he (Phillips) cannot overcome Hudnut's date?

With respect to the action of the Assistant Commissioner in overruling the decision of the Examiner denying the motion of Hudnut, we think he was wrong. Hudnut did not appeal. Therefore the question did not come before the Commissioner for consideration.

The decision of the Patent Office is reversed in so far as it relates to the action of the Examiner on Hudnut's motion, and is affirmed in all other respects.

Modified.

ROBB, *J.*, (concurring in part:)

I concur in the ruling sustaining the decision of the Patent Office in awarding priority to Hudnut. However, Phillips having appealed to the Commissioner from the basic decision of the Examiners-in-Chief awarding priority to Hudnut, and the Commissioner having sustained the decision appealed from, it is my view that the Commissioner properly canceled the Phillips registration. The Commissioner's decision, which this court sustains, definitely and finally determined that Phillips had no claim to the mark and hence no right to register it. Just why Hudnut should be required to go through the idle ceremony of filing an application to have the invalid registration canceled, is not apparent to me, since such proceeding can have but one result, the question already having been determined in the other proceeding.

Court of Appeals of the District of Columbia.

WILLIAM WALTKE & COMPANY *v.* GEO. H. SCHAFER & COMPANY.

Decided March 1, 1920.

1. TRADE-MARK—"LAVA," FOR SOAP, NOT DESCRIPTIVE.
   The word "LAVA," for soap, *Held* not descriptive. It may suggest the function of soap, being derived from "lavare," to wash, and meaning, in English, fluid rock; but it does not describe its properties. (*In re Stephens-Adamson Mfg. Co.*, 272 O. G., 181; 49 App. D. C. —.)
2. SAME—GOODS OF THE SAME DESCRIPTIVE PROPERTIES—SOAP AND SHAVING-CREAM.
   The owner of a mark for toilet soap has a right to extend it to shaving-cream, since in the popular mind a shaving-cream is a soap.
3. SAME—IDENTITY OF MARKS—"U-LAVO" SIMILAR TO "LAVA."
   The word "U-Lavo" conflicts with "Lava," the prefix "U-" being only an arguable distinction which is not sufficient.
4. SAME—SAME—GENERAL TEST OF IDENTITY.
   The test of the identity of trade-marks is not whether the words mean the same thing, but whether they are so similar in sound and appearance as to lead the public to believe that the goods on which they appear had a common origin. Conflict exists where a purchaser seeing only one and relying upon his memory of the other would likely fail to recognize the distinction, although he would do so could he see the two together.
5. SAME—OPPOSITION—NOT NECESSARY TO SHOW DAMAGE TO OPPOSER.
   In order to succeed in a trade-mark opposition proceeding, it is not necessary that opposer establish damages, it being sufficient to show likelihood of confusion or mistake in the mind of the public.
6. SAME—REGISTRATION—DOUBTS RESOLVED AGAINST NEWCOMER.
   Where there is doubt as to the right to register a mark in view of rights previously acquired, it should be resolved against the newcomer, since there is no excuse for a later comer to impinge upon prior rights in view of the unlimited field from which a mark may be selected.

Mr. John S. Barker and *Mr. Edward E. Longan* for the appellant.

Mr. Geo. H. Schafer and *Mr. E. T. Brandenburg* for the appellee.

SMYTH, *C. J.*:

Geo. H. Schafer & Company, a partnership, applied for registration of "U-Lavo" as a trade-mark on shaving-cream. Registration was opposed by William Waltke & Company, a corporation, on the ground that "U-Lavo" was so similar to the mark "Lava," in use by it on toilet soap, that it was not registrable. The Patent Office overruled the opposition and registered the mark.

Wm. Waltke in 1858 established a soap-manufacturing business, which was continued by him and others until acquired by the opposer, who now owns it. In 1893 Wm. Waltke & Co., a partnership, the immediate predecessor of the opposer corporation, adopted, and began the use of, the word "Lava" as a trade-mark on its soap. Later its business was transferred to the corporation, and with it the right to the use of the mark. Upward of a half-million dollars have been spent by the opposer and its predecessor in advertising goods under the mark "Lava," and the corporation's plant has come to be known as "The Home of Lava Soap." Applicant did not adopt its mark until 1913.

At the outset it is urged by the applicant that the opposer's mark is descriptive and hence not entitled to registration. The word "Lava," according to *Webster's Dictionary*, comes from "lavare," to wash, and means in English, fluid rock. It may suggest the function of soap but it does not describe its properties. (*In re Stephens-Adamson Manufacturing Company*, 49 App. D. C., —, and the cases therein cited.) Much stress is laid upon *Standard Paint Company* v. *Trinidad Asphalt Manufacturing Company* (220 U. S., 446) by the applicant with respect to this point, but it is easily distinguished from the case before us. In that case the word "Rubberoid" was used on goods which contained no rubber, but was in the "nature of soft, flexible rubber." It is a compound of the word "Rubber" and the suffix "Oid." "Oid" is defined by the lexicographers as meaning the form or resemblance of the thing indicated, "like," as in *anthropoid*, like man. The mark "Rubberoid" as applied to the goods in question meant that they were like rubber, which was true, and was therefore descriptive.

The owner of a trade-mark has the right not only to its exclusive use on goods which he has manufactured, but also on goods which he may afterward produce if they belong to the same general class as those upon which he has been using the mark. (*Gutta-Percha & Rubber Manufacturing Company* v. *Ajax Manufacturing Company*, 48 App. D. C., 233; *Walter Baker Co.* v. *Harrison*, 32 App. D. C., 272.) No person may legally interfere with the use of the mark by him in the natural expansion of his business. (*Simplex Heating Company* v. *Gold Car H. & L. Co.*, 43 App. D. C., 28.) When chemically analyzed shaving-cream and toilet soap may not be identical in all their elements, but in the popular mind a shaving-cream is a soap, and the manufacture of it by opposer would be a natural step in the broadening out of its business as a soap-producer. In fact it has already taken that step, for it is now manufacturing shaving-soap and shaving-cream, although it does not put them out as its own products. They are produced to be distributed by others. Toilet soap and shaving soap or cream are related materials, and since opposer has a right to use its trade-mark on toilet soap it may prevent the use of it by others on shaving-soap or shaving-cream.

But it is contended that applicant is not attempting to use opposer's mark or one similar to it, and consequently that the rule we have been discussing does not apply. The Assistant Commissioner held that there was a wide difference between the meaning of the two marks. The word "Lava," he said, suggests grit, while the word "Lavo" (a part of applicant's mark) refers to washing. Counsel for appellant assert that the word "Lavo" is Latin and means "wash or lave." The Latin word "lavare," the root of "lava," is very closely allied in meaning to the word "lavo,"—so much so that the two words may be treated as meaning substantially the same thing. However, the test is not the exact meaning of the words but whether they are so similar in appearance and sound as to lead the public to believe that the goods on which they appear had a common origin.

Undoubtedly, as urged, the prefix "U-" distinguishes the one mark from the other, but we think it is only an arguable distinction; and that is not sufficient. (*Thomas Manufacturing Co.* v. *Aeolian Co.*, 47 App. D. C., 379.) "Lavo" is the dominant feature in appellant's mark and the one most likely to be remembered. Of course, if the intending purchaser could see both marks together he would readily note the difference between them; but if upon seeing only one he must rely upon his memory of the other, he would not be likely to apprehend the distinction. He acts quickly and upon impression. He is governed by a casual glance. (*Patton Paint Co.* v. *Orr's Zinc White, Ltd.*, 48 App. D. C., 221, 222.) Under such circumstances he would be apt to mistake the one for the other and thus would occur the confusion against which the statute is leveled.

Opposer is not bound to establish damages in order that it may succeed. It is sufficient for it to show that the applicant's mark would be "likely to cause confusion or mistake in the mind of the public * * *." (Sec. 5, 33 Stat. L., 725; *Patton Paint Co.* v. *Orr's Zinc White, Ltd.*, 48 App. D. C., 223; *Thomas Manufacturing Co.* v. *Aeolian Co.*, 47 App. D. C., 378.)

The case is not free from difficulty, but where there is doubt the courts resolve it against the newcomer. (*Lambert Pharmacal Co.* v. *Metho-Listine Chemical Co.*, 47 App. D. C., 197.) The reason for this is, as has been said by this court more than once, that the field from which a person may select a trade-mark is practically unlimited and hence there is no excuse for his impinging upon or even closely approaching the mark of his business rival. (*O. & W. Thum Co.* v. *Dickinson*, 46 App. D. C., 306; *Florence Manufacturing Co.* v. *J. C. Dowd & Co.*, 178 Fed., 75.) Where he does so he is open to the suspicion that his purpose is to appropriate to himself some of the good-will of his competitor.

From what we have said it follows that the decision of the Patent Office is reversed and the opposition of William Waltke & Company, Incorporated, sustained.

Reversed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Conn.) The Brooke patent, No. 723,983, for apparatus for cutting molten glass, *Held* not infringed. *Homer Brooke Glass Co.* v. *Hartford-Fairmont Co.*, 262 Fed. Rep., 427.

(U. S. C. C. A. R. I.) The Mayo patent, No. 726,178, claims 23, 24, 38, 41, 43, 48, 49, and 130, for knitting-machine improvements, *Held* invalid. *George D. Mayo Machine Co.* v. *Hemphill Mfg. Co.*, 262 Fed. Rep., 435.

(U. S. C. C. A. Conn.) The Ward patent, No. 737,179, for a screw-driver, *Held* valid and infringed. *H. D. Smith & Co.* v. *Peck, Stow & Wilcox Co.*, 262 Fed. Rep., 415.

(U. S. C. C. A. Ohio.) The Schweinert and Kraft patent, No. 783,469, for clamping device for pneumatic tires, *Held* invalid. *A. Schrader's Son* v. *Dill Mfg. Co.*, 262 Fed. Rep., 504.

(U. S. C. C. A. N. Y.) The Robinson patent, No. 809,852, for a vegetable-peeling machine, *Held* valid and infringed. *Imperial Machine & Foundry Corporation* v. *G. S. Blakeslee & Co.*, 262 Fed Rep., 419.

(U. S. D. C. Ohio.) The Beitman patent, No. 993,816, for a wind-shield cleaner, limited to the precise structure described and claimed, *Held* valid and infringed. *Beitman* v. *Strater*, 262 Fed. Rep., 443.

(U. S. C. C. A. N. Y.) The Baltzley patent, No. 1,139,627, for a paper-binding clip, claims 3, 7, 12, and 14 *Held* valid and infringed. *Baltzley* v. *Spengler Loomis Mfg. Co.*, 262 Fed. Rep., 423.

(U. S. C. C. A. Mass.) The Schemmel patent, No. 1,226,600, claims 1, 2, 5, and 6, of May 15, 1915, for a finishing-welt, *Held* invalid. *Backstay Machine & Leather Co.* v. *Hamilton*, 262 Fed. Rep., 411.

(U. S. C. C. A. Ohio.) The Burke patent, No. 1,253,573, for dust-cap for tire-valves, *Held* invalid. *A. Schrader's Son* v. *Dill Mfg. Co.*, 262 Fed. Rep., 504.

(U. S. C. C. A. Conn.) The Ward design patent, No. 37,214, for a design for a screw-driver, *Held* invalid. *H. D. Smith & Co.* v. *Peck, Stow & Wilcox Co.*, 262 Fed. Rep., 415.

(U. S. C. C. A. Mass.) The Schemmel patent, No. 51,804, for a design for a molding or welt, *Held* invalid. *Backstay Machine & Leather Co.* v. *Hamilton*, 262 Fed. Rep., 411.

Adverse Decisions in Interference.

PATENT NO. 1,254,896.

On March 6, 1920, a decision was rendered that Jose Vila Fernandez was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,254,896, subject, "Non-refillable bottle," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 131,009.

On March 13, 1920, a decision was rendered that Julius H. Richards was not the first inventor of the subject-matter covered by claim 7 of his Patent No. 131,009, subject, "Engine-starting device," and no appeal having been taken within the time allowed such decision has become final.

CHANGES IN CLASSIFICATION.

(ORDER No. 2,559.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., March 23, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 87, Oils, Fats, and Glue, (Division XXXI,) establish subclass—

Detergents—
27. Boiler compounds.

The patents contained in this subclass have been taken for the most part from class 210, Water Purification, subclass 22, Boiler compounds, hereinafter abolished.

In class 210, Water Purification, (Division XLIII,) change the title of the class to read *Class 210, Liquid Separation or Purification*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

210.—LIQUID SEPARATION OR PURIFICATION.

1. **Miscellaneous.**
2. **Sewage purification—**
3. With sludge-remover,
4. Automatic regulation,
5. Settling and filtering,
6. Settling and septic tanks,
7. Aerating and filtering,
8. Activated sludge.
9. **Water purification—**
10. Railway-tank,
11. Swimming-pool,
12. **Systems—**
13. With lake or reservoir supply,
14. With chemical and heat treatment.
15. With heat treatment,
16. With chemical treatment—
17. Proportional feeding—
18. Weir or orifice control,
19. Gravity-bucket control,
20. Dipper or movable outlet,
21. Float or motor operated valve,
22. Pump.
23. Chemical treatment—
24. Base exchange,
25. Abrasion and aeration,
26. Aeration,
27. Ozonizing,
28. Chlorinating,
29. Chemical feeders—
30. Weir or orifice control,
31. Differential-pressure control,
32. Gravity-bucket control,
33. Plural types,
34. Steam or condensed steam,
35. Abrasion with or without infiltration,
36. Infiltration—
37. Boiler-compound holders,
38. Displacement,
39. Gravity and suction,
40. Pump or injector,
41. Motor-operated valve,
42. Dipper or movable outlet.
43. **Decanter and filter—**
44. Systems,
45. Filter in overflow,
46. Capillary action,
47. Washing—
48. Central submerged oil-inlet—
49. Multiple compartment.
50. Downward flow.
51. **Decanters—**
52. Systems.
53. Flotation,
54. Float-controlled outlet.
55. With sediment-remover,
56. With oil or grease chamber,
57. With sediment-trap.

210.—LIQUID SEPARATION OR PURIFICATION—Continued.

Decanters—
58. Sloping bottom, central baffle,
59. Heated or cooled,
60. Vertical baffle.
61. Cylindrical baffle.
62. **Filters—**
63. Centrifugal extractors—
64. Inward flow,
65. Honey,
66. **Fluid treatment—**
67. Liquid,
68. Agitating and conveying—
69. Rotary stirrer,
70. Stationary stirrer,
71. Driving mechanism—
72. Motor,
73. Discharging residue—
74. Bottom discharge,
75. Receiving filtrate,
76. **Basket contruction,**
77. **Faucet or valve—**
78. Valve-incorporated—
79. With filter-drum,
80. Screened plug,
81. Outlet attachment—
82. Cleaning—
83. Reversible filtering element,
84. Strainers—
85. Separable casing,
86. Loose material—
87. Separable casing,
88. For cistern-supply—
89. With side outlet,
90. With clean-out opening,
91. With sediment draw-off,
92. Valved—
93. Automatic,
94. Pipe-intake—
95. Drinking,
96. Porous block,
97. Floating,
98. Loose filtering material,
99. Household—
100. Deflected flow—
101. Reversed,
102. Vertical and lateral,
103. Downward flow—
104. Plural spaced filter elements.
105. Suspended filtering vessel,
106. Restricted outlet,
107. Side inlet or outlet,
108. Upward flow,
109. Lateral flow—
110. Tubular filtering element,
111. Converging or diverging flow,
112. Porous block—
113. Systems,
114. Cleaning—
115. Abrasion,
116. Scraper or brush—
117. Automatic,
118. Rotary,
119. Stationary,
120. Multiple element,
121. Filter-block only,
122. Loose material—
123. With chemical-feed,

210.—LIQUID SEPARATION OR PURIFICATION—Continued.

Filters—
Loose material—
124. Open container—
125. Systems,
Multiple layer—
126. Vertical,
127. Horizontal,
128. Cleaning—
129. Mechanical stirrer,
130. Reverse flow,
131. Closed container—
132. Systems,
133. Alternate cleaning,
134. Multiple layer—
135. Vertical,
136. With storage-chamber,
137. Revolving drum,
138. Packing,
139. Spacing,
140. With sediment-trap,
141. Cleaning—
142. Mechanical stirrer—
143. With reverse flow,
144. Reverse flow—
145. Embedded filter element,
146. Steam or air blast,
147. Automatic,
148. Parts and accessories,
149. **Strainers—**
150. Systems,
151. With stirrer or scraper,
152. With cleaning mechanism,
153. Hollow leaf,
154. Cylindrical filter element,
155. Detachable—
156. Valved,
157. With sediment-chamber,
158. Removable fabric—
159. Clamped cloth,
160. Filter-sheet-supporting surface,
161. Ring and screen only,
162. For tea or coffee pots,
163. For drinking-cups,
164. In pipe-line—
165. With sediment-trap,
166. Valve,
167. Cleaning,
168. Multiple-strainer valve,
169. Strainer element—
170. For pipe end,
171. For granular bed,
172. Flume-screens—
173. Revolving,
174. Revolving arm,
175. Endless belt,
176. Rake,
177. Pressure—
178. Separate casing—
179. Porous filler,
180. Rotary drum,
181. Hollow leaf—
182. Cleaning,
183. Cylindrical filtering element—
184. Multiple tube,

210.—LIQUID SEPARATION OR PURIFICATION—Continued.
Filters—
Strainers—
Pressure—
Separate casing—
185. Flat filtering element,
186. Conical filtering-element,
187. With sediment-trap,
188. Sectional—
189. Porous filler,
190. Bag,
191. Heating or cooling,
192. Charging and discharging,
193. Cleaning,
194. Screw conveyer,
195. Filter-leaf structure,
196. Movable bed—
197. Endless belt—
198. Cleaning,
199. Rotary drum—
200. Multiple leaf,
201. Scraper or brush,
202. Double wall,
203. **Materials—**
204. Fibrous unitary mass,
205. Porous block.
206. **Cistern-cleaners—**
207. Pump,
208. Bailer,
209. Bottom draw-off.

R. F. WHITEHEAD, *Acting Commissioner.*

Changes in Classification.

(ORDER NO. 2,560.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., March 25, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 175, Electricity—General Applications, (Division XXXVII,) establish subclasses—

376. **Wire-placing apparatus—**
377. Fluid-pressure,
379. Motors,
378. Sectional members,
380. Step by step.

The patents contained in these subclasses have been taken for the most part from class 247, Electricity—Conduits, subclass 23, Wire-drawing, and the subclasses indented thereunder, hereinafter abolished.

In class 247, Electricity—Conduits, (Division XLII,) change the title of the class to read *Class 247, Electrical Conduits and Housings*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

247.—ELECTRICAL CONDUITS AND HOUSINGS.
1. **Miscellaneous.**
2. **Meter-circuit protectors.**
3. **Conduit systems.**
4. **Manholes.**
5. **Vehicle.**
Terminal casings—
6. Caps and potheads—
7. Distributing-board type.
8. **Vertical-cable supports.**
9. **Boxes—**
10. Panel-board type—
11. Sectional,
12. Corner-irons,
13. Handles,
14. With distributing block or board,
15. Junction and outlet—
16. Sectional units or gang,
17. Interchangeable parts,
18. Moisture-proof,
19. Adjustable face,
20. Electric-apparatus-securing devices,
21. Box-securing devices—
22. Interjoist,
23. Face-plates,
24. Tube connections and inlet-closures,
25. Tube connections,
26. Inlet-closures and knock-outs.
27. **Conducts—**
28. Outlet-adapters,
29. Sidewalk, gutter, and curb,
30. Chains,
31. Angular,
32. Multiduct—
33. Sectional.
34. Plural pipes,
35. Removable wall—
36. Conductor-supports,
37. Sheet metal,
38. Rigid,
39. Flexible—
40. Non-metallic,
41. Spiral metallic armor,
42. Linings.
43. **Bushings.**

R. F. WHITEHEAD, *Acting Commissioner.*

[Vol. 273. No 3.]

Patents Nos. 1,337,986 to 1,338,662.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 273—No. 4. TUESDAY, APRIL 27, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page.
ISSUE OF APRIL 27, 1920	635
INTERFERENCE NOTICE	635
NOTICE	635
ASSISTANT EXAMINERS WANTED	635
APPLICATION UNDER EXAMINATION	636
PATENTS GRANTED	637
REISSUES	763
DESIGNS	764
TRADE-MARKS—REGISTRATION APPLIED FOR	771
TRADE-MARK REGISTRATIONS GRANTED	801
LABELS AND PRINTS	806
DECISIONS OF THE U. S. COURTS—	
Consolidated Window Glass Co. *v.* Window Glass Mach. Co. *et al.*	807
ADJUDICATED PATENTS	819
ADVERSE DECISIONS IN INTERFERENCE	819
CHANGES IN CLASSIFICATION	819

Issue of April 27, 1920.

Patents	677	No. 1,337,986 to No.	1,338,662, inclusive.
Designs	35	No. 54,978 to No.	55,012, inclusive.
Trade-Marks	145	No. 130,451 to No.	130,595, inclusive.
Labels	9	No. 21,844 to No.	21,852, inclusive.
Prints	2	No. 5,254 to No.	5,255, inclusive.
Reissues	4	No. 14,847 to No.	14,850, inclusive.
Total	872		

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 17, 1920.

Walter H. Earle, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Richard Frank, of 159 Chambers street, New York, N. Y., for registration of a trade-mark and trade-mark registered July 1, 1902, No. 38,536, to Walter H. Earle, of 905 Temple street, Los Angeles, Calif., and a notice of such declaration sent by registered mail to said Walter H. Earle at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Walter H. Earle, his assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
Assistant Commissioner.

NOTICE.

AMENDMENT TO PATENT LAWS—PAYMENT OF FEES.

**Department of the Interior,
United States Patent Office,
Washington, D. C., March 11, 1920.**

Attention is directed to the following excerpt from the deficiency appropriation act, approved March 6, 1920.

**R. F. WHITEHEAD,
Acting Commissioner.**

Hereafter all patent fees shall be paid to the Commissioner of Patents, who shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury shall direct, and said Commissioner is authorized to pay back any sum or sums of money paid to him by any person by mistake or in excess of the fee required by law.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for May 5-7 and June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business April 17, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders: Trees, Plants, and Flowers.	Jan. 9	Nov. 29	371
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 12	Nov. 10	961
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Nov. 26	440
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Sept. 22	Feb. 17	1,000
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 10	Jan. 28	302
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 20	Feb. 18	481
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 31	Feb. 4	757
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles: Store Furniture; Supports.	Feb. 18	Mar. 25	328
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 18	Jan. 2	413
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Sept. 3	Dec. 12	1,020
151	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Dec. 24	Dec. 29	649
222	12. Machine Elements	Aug. 11	Feb. 3	1,193
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making Metal Working; Needle and Pin Making; Turning.	Sept 19	Feb. 17	1,111
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 10	Jan. 19	513
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 23	Feb. 9	1,004
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 27	Nov. 1	839
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 7	Mar. 12	251
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 20	Dec. 1	849
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Nov. 13	602
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 15	Jan. 2	678
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage: Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 5	Feb. 27	390
219	22. Aeronautics; Firearms; Ordnance	Jan. 16	Feb. 11	243
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 27	Dec. 26	577
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 16	Jan. 19	539
315	25. Agitating; Butchering, Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 4	Mar. 6	177
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Aug. 4	Sept. 6	730
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Jan. 21	Feb. 21	524
225	28. Internal-Combustion Engines	Nov. 7	Jan. 8	648
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 10	Mar. 6	636
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 16	1,000
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 8	Oct. 29	943
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 1	Jan. 6	1,117
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 1	Jan. 31	481
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles: Track-Sanders; Vehicle-Fenders.	Mar. 11	Mar. 11	157
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 9	Mar. 11	425
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 22	Jan. 12	1,123
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Nov. 1	Nov. 19	1,275
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Jan. 30	554
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Aug. 11	Oct. 8	983
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 28	Feb. 11	704
125	41. Resilient Tires and Wheels	Sept. 25	Feb. 2	812
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling	Oct. 22	Nov. 23	933
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 3	Feb. 7	712
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Nov. 28	Feb. 27	282
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Oct. 10	Jan. 6	725
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Sept. 18	Nov. 1	754

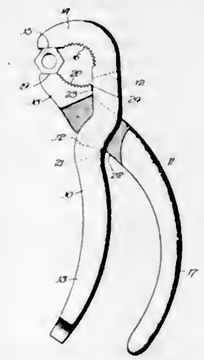
Oldest new case, Aug. 1; oldest amended, Sept. 6.
Total number of applications awaiting action 31,196

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 26	Feb. 1	2,764
	Designs	Oct. 6	Jan. 22	1,179
	Labels and Prints	Jan. 2	Feb. 2	720

PATENTS

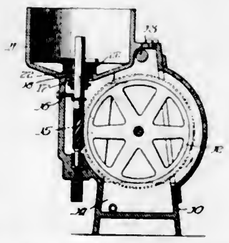
GRANTED APRIL 27, 1920.

1,337,986. PLIERS, WRENCH, AND THE LIKE. ALLEN C. ALLAN, Chicago, Ill. Filed May 19, 1919. Serial No. 298,112. 1 Claim. (Cl. 81—79.)



A tool of the character described comprising in combination two handle elements provided at their corresponding ends with coöperating work-clamping jaws, one of said elements having a transverse slot therethrough slidingly accommodating the other handle element, the latter having a smooth curved edge to provide a sliding adjustable fulcrum bearing on the end wall of said slot remote from said clamping jaws and having a portion adjacent to its jaw adapted to bear adjustably on an edge of said companion handle element, whereby when the jaws clamp a body between them both of said bearings of said handle element on the companion handle element will be operative, substantially as described.

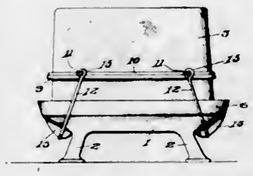
1,337,987. CUSHION-SPRING FOR CREAM-SEPARATOR NECK-BEARINGS. CARL OSCAR ANDERSON, Springfield, Ill., assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1918. Serial No. 228,300. 5 Claims. (Cl. 64—48.)



1. A cushion spring of the class described, comprising a supporting strip provided with a plurality of tongues bent to form a plurality of closed loops each of which is capable of flexing independently of the others, said supporting strip being bent into the form of an annulus.

1,337,988. ICE-CREAM FREEZER. MITCHEL A. ABEL, Newark, N. J. Filed Mar. 22, 1918. Serial No. 224,010. 1 Claim. (Cl. 107—19.)

In a confection freezer, a base provided with an annular channel in its upper surface, an annular flange surrounding said channel and projecting above the upper face of the base, a mold having one side open and having its edges about the open side engaging in said channel, an annular rib formed about the mold intermediate its ends, supporting legs formed upon said base, cam shaped enlargements formed upon the base at its end portions,



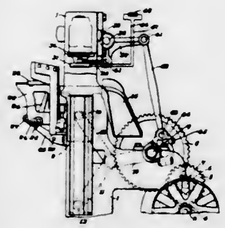
said cam shaped enlargements provided with transverse recesses in their outer surfaces, and means engaging said annular rib and said cam shaped enlargements for clamping said mold upon said base, said means adapted to engage in said recesses to prevent accidental disconnection thereof with the base.

1,337,989. COLLAR-SUPPORTER. CHARLES W. AHRENS, New York, N. Y. Filed May 21, 1919. Serial No. 298,743. 12 Claims. (Cl. 2—91.)



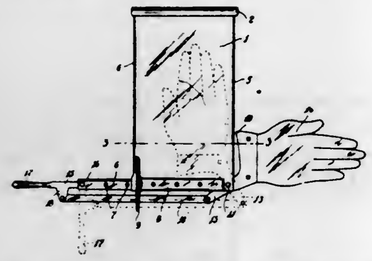
1. A collar supporter comprising, two oppositely disposed independently flexible upper collar supporting arms spaced apart at the center, a base member adapted to engage a support, means for connecting the base member and the inner ends of the upper arms and side braces connecting the base member with the outer ends of the upper arms.

1,337,990. METHOD OF AND APPARATUS FOR FORMING OR FINISHING TOP LIFTS. FRED R. AKERLEY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 5, 1919. Serial No. 308,691. 11 Claims. (Cl. 12—142.)



1. The method of forming a top-lift which consists of subjecting the top-lift to a condensing or molding pressure and rubbing the surface of the top-lift while under condensing or molding pressure.

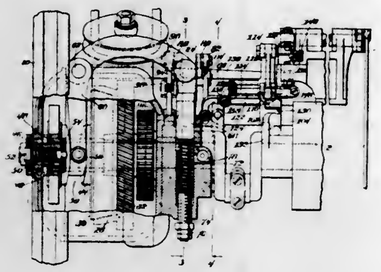
1,337,991. DIRECTION-INDICATOR FOR ROAD-VEHICLES. EBENEZER GUEST ARCHER, Langley, England. Filed June 9, 1919. Serial No. 302,790. 6 Claims. (Cl. 116—52.)



1. An indicating device for road vehicles comprising a casing containing at least one pivoted indicating member, a member attached to and projecting from said casing, a series of regularly spaced holes in said member, an attachment bracket, securing members for said bracket said securing members being spaced to correspond with said holes, and indicating member operating means including a handle disposed at the end of said projecting member.

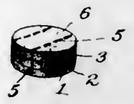
2. An indicating device for road vehicles comprising a casing containing at least one pivoted indicating member, resilient pads in said casing adapted to contact said indicating member to prevent rattling, a member attached to and projecting from said casing, and indicating member operating means including a handle disposed at the end of said projecting member.

1,337,992. DRIVING AND STOPPING MECHANISM. FRED ASHWORTH, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 24, 1913, Serial No. 769,566. Patent No. 1,233,539, dated July 17, 1917. Divided and this application filed Nov. 24, 1916. Serial No. 133,161. 13 Claims. (Cl. 74—46.)



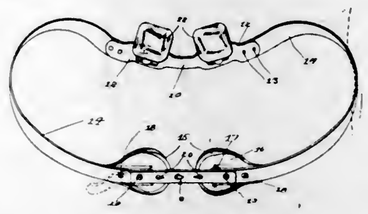
13. A driving and stopping mechanism, having, in combination, a shaft, driving mechanism therefor, means for slowing down and finally stopping the shaft at a predetermined point in its rotary movement comprising a cam and a stop carried by the shaft, a member arranged to be actuated by the cam and to be engaged by the stop to arrest the rotation of the shaft, a brake, connections between said member and the brake for engaging the brake when said member is actuated by the cam, means under control of the operator for connecting the driving mechanism with and for disconnecting the same from the shaft, and for moving said member out of and into the path of the cam and stop, and locking devices arranged to lock the parts in position with the driving mechanism disconnected from the shaft and said member located out of the path of the cam and stop to permit the rotation of the shaft by hand.

1,337,993. WAD FOR SHOT SHELLS OR CARTRIDGES. CHARLES S. BIRD, Walpole, Mass. Filed for (abandoned) application Serial No. 51,185, filed Sept. 17, 1915. Renewed Feb. 7, 1918, Serial No. 215,924. This application filed Sept. 16, 1918. Serial No. 254,580. 11 Claims. (Cl. 102—42.)



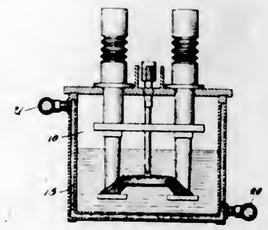
5. As a new article of manufacture, a wad for shells or guns, comprising a plurality of layers of paper secured together by a suitable adhesive and stitched through and through with a finishing sheet secured upon the outer faces of the wads, overlying the stitches.

1,337,994. TRUSS. JAMES WILLIAM BUCKLEY, Weatherford, Tex. Filed Oct. 29, 1919. Serial No. 334,143. 2 Claims. (Cl. 128—105.)



2. A truss or abdominal belt comprising a sheet metal front section of angular formation having spaced longitudinal slots and having a concavo-convexed cross section at said slots, tongues having head portions, clamping means engaged through said slots and with the head portions to permit longitudinal adjustment in said slots, pads, means to connect said pads to the tongues for vertical adjustment, resilient end sections in the form of strips detachably secured to the ends of the front or intermediate section, pads detachably secured to the extremities of said end sections, and an adjustable connection between the extremities of said end sections.

1,337,995. ELECTRIC SWITCH OR CIRCUIT-BREAKER. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed Apr. 17, 1916. Serial No. 91,576. 17 Claims. (Cl. 200—150.)



1. The combination, with the characteristic mechanical and electrical factors of an oil circuit breaker, of means to keep down the temperature of the oil.

1,337,996. REBOUND-CHECK FOR VEHICLES. CHARLES S. BURTON, Oak Park, Ill. Filed Sept. 8, 1919. Serial No. 322,514. 3 Claims. (Cl. 267—10.)

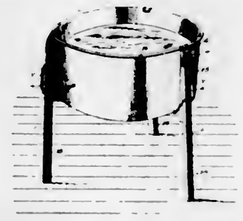
1. In a device for the purpose indicated, in combination with two members having complementary curved surfaces which together constitute substantially a cylindrical drum:

a support to which said two members are pivoted near their ends respectively, at substantially diametrically opposite points with respect to the cylindrical contour defined by said complementary surfaces; a spring connect-



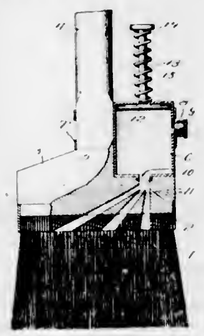
ing the complementary members for yieldingly expanding or spreading apart their complementary surfaces, and a flexible friction band coiled around said members on their said complementary surfaces.

1,337,997. SUPPORTING-LEG FOR WASHTUBS. THADDEUS STEPHENS CASNER, Plainfield, N. J. Filed Sept. 4, 1919. Serial No. 321,561. 5 Claims. (Cl. 68—31.)



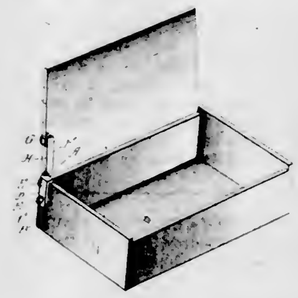
1. A supporting leg for tubs comprising a shank, a bracket on the shank and adapted to engage the lower edge of the tub, a link pivoted on the shank above said bracket for outward swinging movement, and a gripping member pivotally connected to said link at its lower end and having its upper end bent to provide a hook for engaging the upper edge of a tub.

1,337,998. FOUNTAIN-BRUSH. RALPH CHURCH, Shulls Mills, N. C. Filed Aug. 6, 1919. Serial No. 315,631. 1 Claim. (Cl. 15—49.)



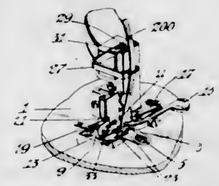
A fountain paint brush comprising a brush body, a brush head, a handle projecting centrally from the brush head, the latter being cut away flush with one side of the handle to form an L-shaped seat, a paint reservoir arranged and fastened in said seat and having its outer side flush with the corresponding face of the brush head and also having a filling nozzle on said outer side, and a spring-retracted plunger-operated expressing piston in said reservoir, the latter having an outlet in its bottom, and the brush head having paint-distributing ducts leading from said outlet to different points in the brush body.

1,337,999. BOX-LID SUPPORT. MIKE CIANOVICH, Maywood, Ill. Filed July 11, 1919. Serial No. 310,216. 1 Claim. (Cl. 217—61.)



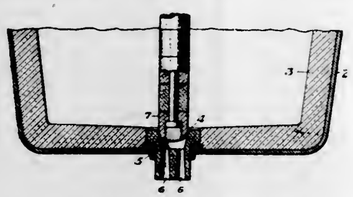
A box-lid support comprising a member having a pair of parallel downwardly extending flanges between which an end wall of a box is adapted to be received, one of said flanges being of a width in excess of the other flange to an extent substantially equal to the thickness of a wall of the box, said wider flange adapted to engage the outer face of the wall received between said pair of flanges and being equipped along one edge with a projection adapted to engage the outer face of the rear wall of the box, said projection adapted to coact with the opposed edge of the narrower flange to hold said member against movement longitudinally of the wall engaged thereby, and a tongue on said member terminating in a U-shaped element adapted to receive and engage a side edge of the box lid, said tongue having one edge substantially in alinement with the inner face of the narrower flange and the body of said tongue disposed transversely to the same and adapted to lie in contact with one face of the lid when the latter is engaged in the U-shaped terminal of said tongue.

1,338,000. FOLDING AND TAPE-APPLYING MACHINE. WILLIAM P. CLIFFORD, Barnard, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 2, 1914. Serial No. 869,850. 9 Claims. (Cl. 12—55.)



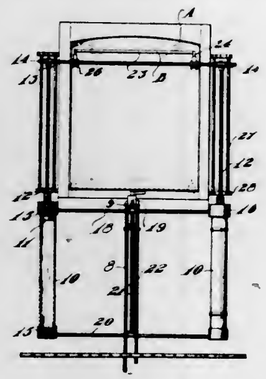
1. A machine of the class described having, in combination, a support for a piece of pliable material, mechanism for feeding said material over said support and for holding and pressing the margin, and a stationary member for guiding a piece of tape into position inside of and adjacent to but without the plies of said folded margin whereby the tape is pressed simultaneously with the pressing of the margin.

1,338,001. BOTTOM-POUR LADLE. FRANK CORDES, Pittsburgh, Pa. Filed Aug. 22, 1918. Serial No. 250,926. 3 Claims. (Cl. 22—85.)



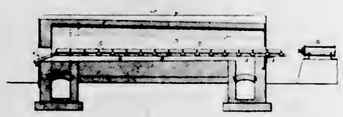
1. A bottom pour ladle having a removable refractory pouring spout therein, said spout having an annular flange adapted to be supported on a seat in the bottom of the ladle, said spout having a cylinder opening in its upper part adapted to be closed by means of a stopper, and a plurality of openings communicating with said recess and extending through the spout to feed a common mold, substantially as described.

1,338,002. WINDOW-CLEANING DEVICE. THEODORE JOSEPH DERRY, Windsor, Ontario, Canada. Filed May 2, 1919. Serial No. 294,352. 1 Claim. (Cl. 15—59.)



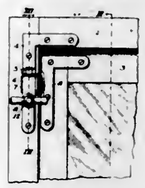
In a window cleaner, the combination with a cross rod and means for moving it across a window pane, of a cleaner rod provided at its opposite ends with supporting arms having bearing portions pivotally mounted on the cross rod, clamping members also mounted on the cross rod and straddling the supporting arms to prevent sliding movement thereof with respect to the cross rod, and springs interposed between the clamping member and the supporting arms to hold the cleaner rod against a window pane.

1,338,003. HEATING-FURNACE. NICKOLAS F. EGLER, Chicago, Ill. Filed June 14, 1919. Serial No. 304,310. 9 Claims. (Cl. 263—6.)



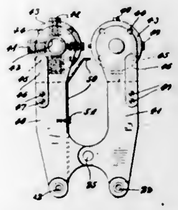
1. The combination with a heating furnace having cooled tracks along which the work-pieces to be heated travel through the furnace-chamber, of work-supports immediately supported on and movable along said tracks, substantially as described.

1,338,004. WINDSHIELD-HOLDER. JOSEPH EBRET, Cleveland, Ohio. Filed Aug. 16, 1919. Serial No. 317,999. 1 Claim. (Cl. 296—96.)



In devices for holding wind shields and the like, a pair of L-shaped plates having attachment holes by which they may be secured one to one face of the wind shield frame or other movable member and the other to one face of a relatively fixed frame at the corners thereof, in general parallel position to each other, one of the parallel members having a laterally projecting trunnion at an intermediate portion of its length projecting across the intermediate portion of the parallel leg of the other member, the other member having a bearing for said trunnion provided with a swinging clamping member, the clamping member having a spring pocket and a clamping bolt arranged to act upon the spring, substantially as described.

1,338,005. INTERCHANGEABLE-JAWED TOOL. WALTER FIFTAL, Waterbury, Conn. Filed Jan. 25, 1919. Serial No. 273,028. 1 Claim. (Cl. 164—122.)



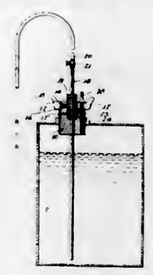
In a tool of the character described having a handle and jaws pivotally secured thereto and to each other, the combination of a pair of oppositely disposed disks having a plurality of uniformly spaced recesses, secured to the outer ends of said jaws, spring plates secured in the recesses of said disks and to said jaws, screw-threaded dies containing openings engaged in the periphery of one of the disks, a tubular rivet at each jaw in communication with said openings of said dies, and a bent bar secured to the inner side wall of one of said jaws, punches set in the periphery of the opposite die corresponding to the openings in the dies of the opposite disk, said bar having a longitudinal slot, and a set screw adjustable in said slot for guiding the material to be operated on between the jaws, substantially as described.

1,338,006. CATTLE-GUARD. WILLIAM O. FINK, South Range, Wis. Filed Oct. 7, 1919. Serial No. 329,071. 4 Claims. (Cl. 256—18.)



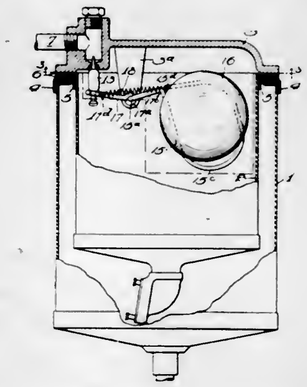
1. A cattle guard including a pair of spaced tie spanning strips having spike holes at their respective extremities, a spike-bearing plate disposed upon said strip between the spike holes thereof and braces supported transversely of said strip and beneath said plate, said braces varying in height so as to cause said spiked plate to be curved in an arc between the spike holed end of said strip.

1,338,007. BARREL-TAP. HARRY O. FINLEY, Forres, Saskatchewan, Canada. Filed June 8, 1918. Serial No. 238,942. 1 Claim. (Cl. 217—113.)



In a device of the class described, a member having a heavy body portion threaded externally, means permitting the manual operation of the member, said member being provided with a recess of varying cross section, a packing within the recess terminating along the line of the greatest cross section, said member having a central bore and the packing having a bore in alinement therewith, said member also having a smaller bore above the recess, a tubular member threaded into the bore last named and itself having a bore in alinement with the bore of the packing, the tubular member bearing on the packing, a discharge tube extending through the several bores, the member being provided with an additional bore parallel with that first named, a casing threaded into the additional bore, and an inlet valve operating within the casing.

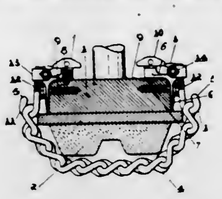
1,338,008. VACUUM FUEL-FEED DEVICE. JOHN E. GENN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 22, 1918. Serial No. 263,690. 7 Claims. (Cl. 158—56.)



1. In a structure for the purpose indicated, in combination with a support having the ports which are to be valve controlled and the valves for controlling said ports, a float-operated valve-actuating mechanism comprising a skeleton float carrier, and a skeleton valve carrier, pivoted together and to the support and a contractile spring connecting said carriers extending past their pivotal axis.

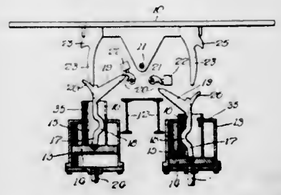
1,338,009. TIRE-CHAIN. STEWART GODDARD, Toronto, Ontario, Canada. Filed May 3, 1919. Serial No. 294,543. 5 Claims. (Cl. 152—2.)

1. A wheel provided with a tire, in combination with a plurality of tire chains side by side extending across the tire, and means for securing the ends of the chains to the wheel comprising common connectors for the chain ends adapted to be threaded through the end links of the chains;



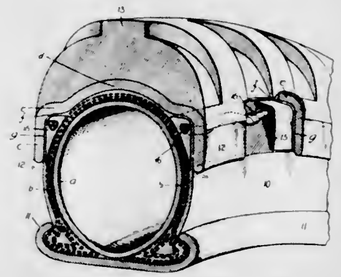
a removable cross bar connecting the ends of each connector; and hooks secured in place at opposite sides of the wheel rim, with which hooks the cross bars are engaged.

1,338,010. DUMP-CAR. ALEXANDER M. GOW, Duluth, Minn. Filed Sept. 12, 1918, Serial No. 253,774. Renewed Feb. 3, 1920. Serial No. 355,957. 11 Claims. (Cl. 105—271.)



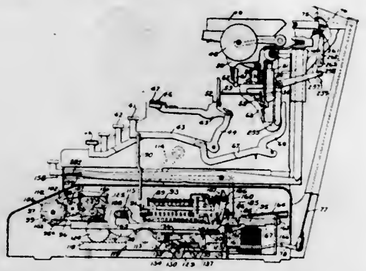
1. In a dump car, a car body mounted for oscillation, a member operatively connected to said body, locking mechanism for the car body, and an oscillating piston rod the upper end of which is free for affecting the locking mechanism and engaging said member to oscillate the car body.

1,338,011. ARMORED TIRE. BERNARD GRANVILLE, New York, N. Y. Filed July 18, 1917. Serial No. 181,192. 8 Claims. (Cl. 152—33.)



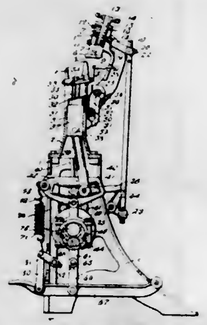
1. An armored pneumatic tire comprising a flexible annular inflatable body and a floating rigid armor rim mounted on the periphery of said body, said rim consisting of a metal annulus formed with oppositely engaging faces extending longitudinally of the tire in planes approximately parallel to the plane of the axis of the tire, and the flexible body being formed with rim engaging portions having approximately parallel faces to bear against said engaging faces of the rim whereby the rim is held against lateral displacement relatively to the body, said rim engaging portions of the body comprising semi-rigid circumferentially extending annular strands whereby such bending of the rim engaging portions of the body as might cause the casting of the armor rim when the tire is used deflated is prevented.

1,338,012. COMBINED TYPEWRITING AND COMPUTING MACHINE. WILLIAM L. GUMPRECHT, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Feb. 1, 1916. Serial No. 75,542. 65 Claims. (Cl. 235—60.)



1. In a computing machine, the combination with ten computing keys from "0" to "9", inclusive, of a set of indexing devices associated with said keys including devices controlled by said "0" key and the "1" key, computing wheels adapted to be operated as determined by said indexing devices to compute in decimal numerals and also numerals to a higher base than decimal numerals, and connections whereby said keys, including said "0" key, through said indexing devices including those controlled by said "0" key, may effect complementary subtraction of said wheels in both decimal and non-decimal calculations, said connections including means whereby the "1" key may be effective to determine the turning of a wheel either less than ten decimal units or more than ten decimal units.

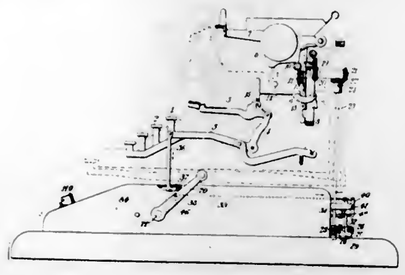
1,338,013. HEEL-PRICKING MACHINE. ANTON AUGUST HAAHR, Copenhagen, Denmark, assignor, by mesene assignments, to United Shoe Machinery Corportion, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 22, 1916. Serial No. 116,400. 10 Claims. (Cl. 1—33.)



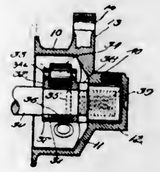
1. In a heel pricking machine, a member for engagement with a heel, a reciprocatory awl situated opposite and movable toward and from the heel-engaging member, connections for operating the awl, and means including the heel-engaging member constructed and arranged to alter the initial relation of the operating connections whereby the movement of the awl may be varied proportionately to the height of the heel to be pricked.

1,338,014. COMBINED TYPEWRITING AND COMPUTING MACHINE. FREDERICK A. HART, Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed June 25, 1917. Serial No. 176,697. 41 Claims. (Cl. 235—60.)

24. In a computing machine, the combination with a register, of actuating means therefor, comprising a pence driving bar, means whereby numbers from "1" to "11" may be indexed thereon, means to index from "1" to "9" while computing in the units of pence denomination, means effective to index "10" on said bar when computing in the tens of pence denomination and means, whereby upon indexing "1" in the units of pence denomination, following such indexing of "10," an indexing of "11" will be effected upon said bar.

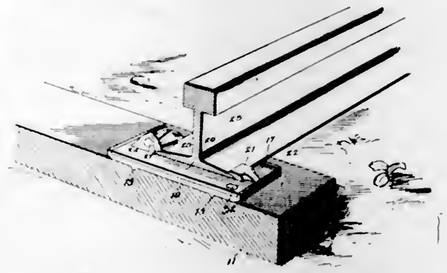


1,338,015. TIMER. FREDERICK C. HERSEE, Boston, Mass. Filed Dec. 7, 1915, Serial No. 65,604. Renewed Mar. 17, 1920. Serial No. 366,674. 4 Claims. (Cl. 200—26.)



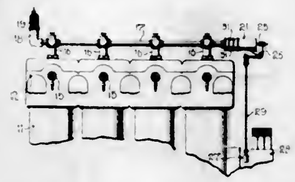
1. A timer, comprising relatively fixed contacts spaced apart circumferetnially and also along the axis of the timer, and a revoluble contact to coöperate therewith having a shaft mounting, said revoluble contact consisting in a shiftable member extending in the same general direction as the shaft and of a length sufficient to engage all of said fixed contacts as it revolves.

1,338,016. RAIL PLATE AND FASTENER. JOHN GARRETT HILL, Chattanooga, Tenn. Filed July 24, 1919. Serial No. 312,985. 4 Claims. (Cl. 238—291.)



2. A device of the character described comprising a tie plate, fastening means therefor, a rail plate disposed on the tie plate and concealing said fastening means, said tie plate and said rail plate having relatively engaging means to prevent lateral and vertical shifting movements of the latter, fastening means common to said tie and rail plates, and rail engaging means carried by the rail plate, as described.

1,338,017. CONTROL DEVICE FOR INTERNAL-COMBUSTION ENGINES. EDWARD B. HOYTE, Nashville, Tenn. Filed Oct. 23, 1919. Serial No. 332,620. 10 Claims. (Cl. 123—198.)



1. An automatic pressure relief and ignition timing device for internal combustion engines having a plurality of working cylinders comprising a relief valve remote from and in communication with all of the working cylinders, and pressure operated means associated with said relief valve and in operative relation with the ignition device for delaying ignition of the fuel charge following an excessive pressure in a working cylinder.

1,338,018. TRANSFER-TICKET. EDWARD E. HYLAND, Chicago, Ill. Filed Apr. 20, 1916. Serial No. 92,401. 5 Claims. (Cl. 283—27.)



1. A transfer ticket having a dial thereon marked to indicate both ante and postmeridian hours and also directions of travel, substantially as described.

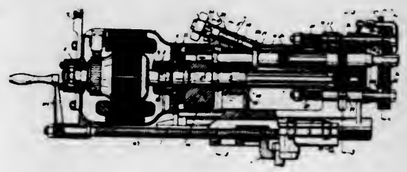
2. A transfer ticket having a dial thereon marked around its outer portions to indicate both ante and postmeridian hours and also in its central portions with directions of travel, substantially as described.

3. A transfer ticket having a detachable transfer coupon attached thereto, said ticket having a dial thereon marked to indicate both ante and postmeridian hours, substantially as described.

4. A transfer ticket marked at its top with the day of the week and month, the car line upon which it is to be used, the direction of use and ante and postmeridian time, the central portion of said ticket being provided with a dial having an outer annular band marked to indicate postmeridian time and the hours from one to twelve and between said hour marks with minute marks from zero to fifty-five, said dial being provided with an inner annular band marked to indicate antemeridian time and with the hours from five to eleven, the central portion of said dial being marked with the day of the month and the four directions of the compass, said central portion of said ticket being also marked to indicate an emergency, an extension, a half-fare and the stopping of the car at a depot or station, substantially as described.

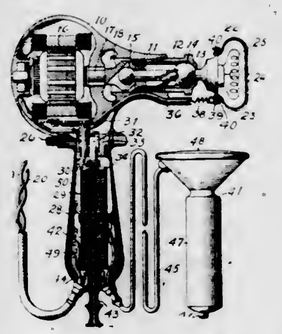
5. A transfer ticket marked at its top with the day of the week and month, the car line upon which it is to be used, the direction of use and ante and postmeridian time, the central portion of said ticket being provided with a dial having an outer annular band marked to indicate postmeridian time and the hours from one to twelve and between said hour marks with minute marks from zero to fifty-five, said dial being provided with an inner annular band marked to indicate antemeridian time and with the hours from five to eleven, the central portion of said dial being marked with the day of the month and the four direction of the compass, said central portion of said ticket being also marked to indicate an emergency, an extension, a half-fare and the stopping of the car at a depot or station; and a detachable transfer coupon and a refund check attached to said ticket, substantially as described.

1,338,019. DRILLING, RIVETING, AND LIKE MACHINE. CORWILL JACKSON, Kalamazoo, Mich. Filed June 1, 1918. Serial No. 237,761. 5 Claims. (Cl. 255—42.)



3. In a structure of the class described, the combination of a driving shaft, a chuck, a tool carried thereby, driving connections for said driving shaft and chuck including a friction means adapted to slip when the resistance to the rotation of the chuck exceeds a predetermined point, a hammer actuated through said driving shaft and acting upon the tool while being rotated by said chuck, means for supporting said hammer in inoperative position independent of the chuck driving means whereby the hammer may be operated to impart blows to the tool rotated by the chuck or rendered inoperative without stopping the chuck.

1,338,020. COMBINATION FARADIC AND VIBRATORY MASSAGE IMPLEMENT. EDWARD MASAYOSHI KOJIMA, Los Angeles, Calif., assignor of thirty-one one-hundredths to Naosaku Tsuchiyama and fifteen one-hundredths to Hisataro Kiriyama, El Monte, Calif. Filed June 4, 1917. Serial No. 172,702. Renewed Feb. 24, 1920. Serial No. 360,760. 3 Claims. (Cl. 174—89.)

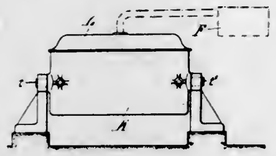


2. In a massage implement, an applicator comprising a glass bulb, electric lighting elements within the bulb, and an electrode terminal consisting of metal filaments embedded in the glass and flush with the surface thereof.

1,338,021. METHOD OF MANUFACTURING SIMULTANEOUSLY HYDRAULIC CEMENT AND ALKALI FROM ALKALIFEROUS MINERAL SUBSTANCES AND LIME. ERNST WALDEMAR JUNGNER, Kneippbaden, Sweden. Filed July 31, 1918. Serial No. 247,697. 6 Claims. (Cl. 204—64.)

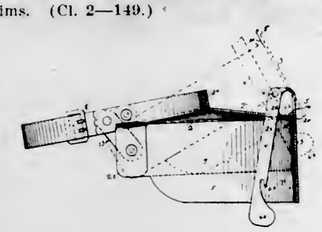
1. Method of producing simultaneously alkali and cement from alkaliferous mineral substances and lime,

which consists in heating a mixture of said substances by means of fuel to a temperature at which the carbonic acid is driven off, then completing the burning by means



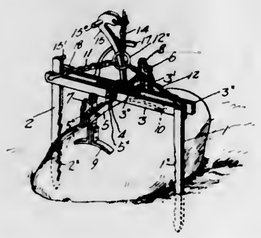
of eletrically generated heat at a temperature at which the alkali is driven off and substantially without access of air, and separately collecting the alkali and the residue.

1,338,022. GLARE-STOP. FRANK W. LAMOREAUX, Syracuse, N. Y. Filed Dec. 8, 1919. Serial No. 343,270. 3 Claims. (Cl. 2—149.)



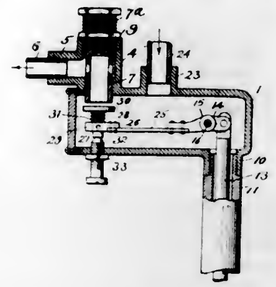
1. In a glare stop, a body having a fore-piece overhanging the eyes of the wearer and having a semi-circular flange conforming to and engaging the forehead of the wearer, said body having perforated lugs depending from the rear ends of said flange, a horseshoe-shaped shield loosely receiving said fore-piece, the walls of said shield disposed in vertical planes, the lower edge of one side of said shield extending below the corresponding edge of the opposite side for covering and shielding one eye of the wearer, the said depending portion terminating at a point in line with the axis of the other eye of the wearer and the ends of the shield pivoted to the lugs of the body, means whereby the shield may be raised or lowered, and means for adjustably securing the device to the head of the wearer.

1,338,023. STONE-PICKER. WILLIAM LEDUC, Toronto, Ontario, Canada. Filed Aug. 22, 1919. Serial No. 319,224. 6 Claims. (Cl. 294—106.)



1. In a stone picking device the combination with the lifting chain, of a pair of stake members adapted to be inserted in the ground at each side of the stone and having gripping edges for gripping the stone, parallel lever bars pivotally connected together intermediately of their length and connected at the opposite ends of the aforesaid stakes, and chains connecting the lifting chain to the opposite ends of the lever bars.

1,338,024. THERMOSTAT. GEORGE E. LEE, Cleveland, Ohio, assignor to The George E. Lee Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 10, 1915. Serial No. 27,007. 4 Claims. (Cl. 236—5.)

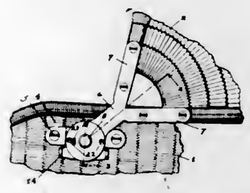


1. A thermostatic device comprising a casing having an inlet and an outlet, and a valve seat within said casing, a valve coöperating with said seat, means for adjusting the said valve seat and valve with respect to each other independent of the thermostatic couple thereby to control the maximum opening between the valve and its seat, a thermostatic couple carried by the casing and operative connections between the thermostatic couple and the valve.

1,338,025. FLYING-MACHINE. OTTO S. LIND, Chicago, Ill. Filed Sept. 10, 1918. Serial No. 253,402. 4 Claims. (Cl. 244—20.)

1. A plane for flying machines comprising a foraminated frame formed of intersecting bars; an outwardly projecting reinforcing flange on each bar; and normally closed closures for the openings in said frame secured to said bars and yieldable in only one direction from the plane to allow for the passage of air, substantially as described.

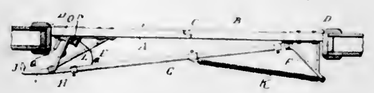
1,338,026. CARRIAGE-TOP. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Filed Aug. 22, 1919. Serial No. 319,239. 9 Claims. (Cl. 296—110.)



1. In a structure of the class described, the combination of a supporting plate provided with rearwardly offset attaching ears and forwardly projecting stop lugs at each side, a hollow stud carried by said supporting plate, and having an annular peripheral groove and a disk in its rear end, a top member journaled on said stud at the inner side of said groove and having a series of holes therein disposed concentrically of said stud, said stop lugs limiting the swing of said top, a segmental retaining member pivotally mounted on said top member to engage said groove in said stud, a spring for holding said retaining member in said groove, carried by said top member, a dog reciprocating through said disk and provided with a finger piece reciprocating in said stud, said dog being

provided with a forwardly turned engaging portion reciprocating through said supporting plate to coact with holes in said top member when they are brought into alinement therewith by the swinging of the top member on said stud, a spring arranged in said stud to engage the finger piece and seating on said disk, and a face plate secured to said top member and provided with an opening through which said retaining member may be disengaged.

1,338,027. BARN-DOOR-OPERATING DEVICE. JOHN F. LINDBERG, Hibbing, Minn. Filed May 17, 1918. Serial No. 235,113. 3 Claims. (Cl. 20—16.)



1. The combination with a pair of hinged doors, of a connecting bar pivotally secured at one end to the inner face of one of said doors, a projection on the inner face of the other door pivotally connected with said bar at the other end portion of the latter, and coacting latch elements carried by said bar and said projection adapted to engage each other as said doors attain their open position to automatically lock the same against closure.

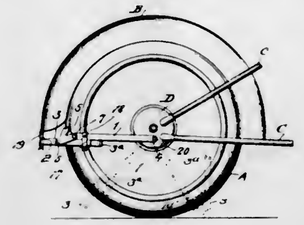
1,338,028. TRAFFIC-SIGNAL. DANIEL J. LINEHAN, Chicopee, Mass. Filed May 15, 1919. Serial No. 297,375. 2 Claims. (Cl. 240—25.)



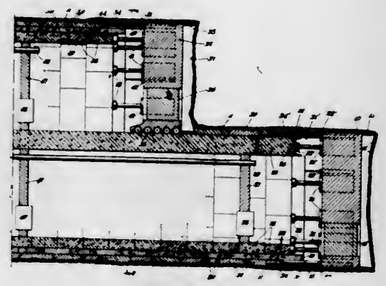
1. A traffic signal consisting of a base having a convexed lower face whereby the base will have a rocking movement on the ground, a standard connected at its lower end to the central part of the base, a visible signal on the upper end of the standard, a tubular member for insertion in the ground, a cap for said member having an opening therein and providing a bearing for the base, a weight disposed in said tubular member, a cable connected at its lower end to said weight and extending through the standard and connected at its upper end to the upper end of the standard, and means for illuminating the signal.

1,338,029. MOTORCYCLE-SUPPORT. JOHN GEORGE LYDECKER, New York, N. Y., assignor of one-half to William F. Cleary, Hawthorne, N. J. Filed Jan. 27, 1919. Serial No. 273,310. 9 Claims. (Cl. 208—76.)

5. A support for motorcycles and the like consisting in the combination with the machine frame and an angular foot-piece, of bars pivoted to said frame, and intermediate links pivoted to the bars and the foot-piece, and having lateral extensions to bear against the foot-piece when the parts occupy their active position.



1,338,030. TUNNEL AND METHOD OF EXCAVATING. JAMES C. MEEM, Brooklyn, N. Y., assignor of one-half to Frederick L. Cranford, Brooklyn, N. Y. Filed Apr. 24, 1919. Serial No. 292,305. 3 Claims. (Cl. 61—42.)

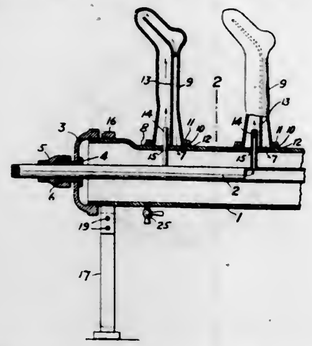


1. In the building of a tunnel underground by the use of shields and compressed air the method which consists in dividing the tunnel proper into parts at different depths, advancing a shield for the excavation for one part under an air pressure appropriate to the level of that part, building in advance the portion of the tunnel walls corresponding to this advanced part including a partition wall at the surface between the advanced part and the next adjacent part, then advancing an independent shield for the next adjacent part of the tunnel along said partition wall, under a different air pressure appropriate to the level of said next part, continuing the formation of the peripheral tunnel walls to inclose the portion of the tunnel corresponding to this second part, and maintaining a space between said shields to prevent leakage of the air pressure from one level of excavation to the other.

1,338,031. GARMENT-DRYING APPARATUS. WILLIAM MESSINGER, Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del., a Corporation of Delaware. Filed Mar. 1, 1918. Serial No. 219,787. 9 Claims. (Cl. 223—17.)

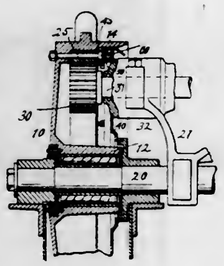
1. A garment drying apparatus comprising a fluid exhaust pipe, a fluid supply pipe extending into and longitudinally along the exhaust pipe, a hollow drying form, a partition therein, and a nozzle extending from the supply pipe and communicating with the interior of the form on one side of said partition, there being means of communication between the form on both sides of the partition and the exhaust pipe, said means of communication being substantially more restricted on that side

of the partition with which the supply nozzle communicates, thereby affording means both for the escape of



exhaust fluid that has passed through the form and for the escape of condensed fluid from both sides of the partition.

1,338,032. MEANS FOR DUST-PROOFING ROTATING GEAR-CASES. MATHEW B. MORGAN, Cleveland Heights, WILLIAM D. COLLINS, East Cleveland, and GRAYSON T. KINNEY, Cleveland, Ohio, assignors to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Apr. 21, 1919. Serial No. 291,530. 4 Claims. (Cl. 74—7.)



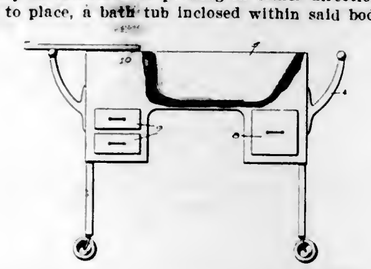
1. The combination of a rotatable hollow wheel having a concentric cylindrical flange, an internal ring gear fitted and secured within said flange, a fixed bracket adjacent the open end of said flange, and a disk fitted to said bracket within said flange, with a packing holding ring fitted within said flange having at its inner periphery a flange which extends toward said disk, a ring of packing material between said disk and said packing holding ring and between the flange of the latter and the flange of the wheel, and springs located between said packing holding ring and a part of the wheel, acting to press said ring toward the disk.

1,338,033. NON-POROUS CEMENT. FRANCIS DAVID MULLIGAN, Belfast, Ireland. Filed June 2, 1919. Serial No. 301,284. 4 Claims. (Cl. 106—27.)

1. In a cement, a compound for waterproofing and strengthening same, comprising a mixture of slaked lime and raw linseed oil in the proportion of 20 ozs., by weight, of lime to 3 ozs., by weight, of oil which mixture is added to the cement.

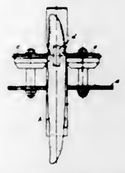
1,338,034. COMBINED BATHTUB AND DRESSER FOR BABIES. ECKHART L. NICKELS, Rochester, Minn. Filed June 18, 1919. Serial No. 305,001. 1 Claim. (Cl. 45—17.)

A combined dresser and bathtub comprising an inclosed body supported upon legs carrying wheels, a handle member projecting from each end of said body whereby to facilitate its pushing in either direction from place to place, a bath tub inclosed within said body, and



a slidably mounted cover on said body movable longitudinally in either direction whereby to uncover said tub, said handle members being engaged by and supporting said cover when the cover is slid in either direction.

1,338,035. METHOD OF AND MACHINE FOR PREPARING LEGUMINOUS FRUITS AND THE LIKE WITHOUT STRIPPING OFF THE STRINGS. JOHN ALFRED OLSEN, Copenhagen, Denmark. Filed Nov. 4, 1919. Serial No. 335,703. 6 Claims. (Cl. 146—11.)



1. The method of preparing leguminous fruits and the like which consists in making in the edges of the pod at close intervals shallow incisions, indentations or the like so as to sever the strings.

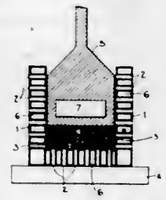
1,338,036. ANTISKIDDING DEVICE. SOLOMON OPPENHEIMER, Washington, D. C. Filed Oct. 10, 1919. Serial No. 329,676. 2 Claims. (Cl. 188—5.)



1. An anti-skidding device for motor driven vehicles comprising a lever pivoted rearwardly of the rear axle in a bracket carried by the axle, said lever being pivoted in a bifurcation of the bracket, the lower end of the lever being inclined downwardly and forwardly, the upper end of the bracket inclining upwardly and rearwardly and terminating at a point above the axle, the lower end of the downwardly and forwardly extending end of the lever being provided with resiliently mounted ground engaging elements, the bottom of the bracket bifurcation being so positioned that when the ground engaging elements are in raised position the bottom edge of the bifurcation will limit the upward movement of the lower end of the lever, the bottom of said bifurcation also being so positioned that when the lower end of the lever is forced downwardly, the lever will be prevented from passing beyond a vertical center line through the pivotal point of the lever, means connected to the upper

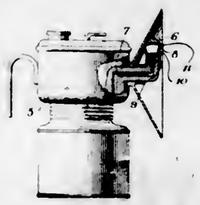
end of the lever whereby said lever may be rocked to throw the ground engaging elements into and out of engagement with the ground, and a spring connected to the forward side of the downwardly extending ends of the lever and having its other end connected to the axle forward of the lever, said spring forming means for assisting in raising the lower end of the lever.

1,338,037. PROCESS OF MAKING CONSTRUCTION MATERIALS. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Dec. 8, 1917, Serial No. 206,315. Renewed Aug. 27, 1919. Serial No. 320,306. 8 Claims. (Cl. 92—21.)



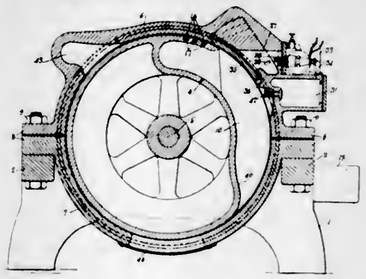
4. The process of producing an impervious waterproof construction material, comprising the steps of forming at ordinary temperatures a mixture of a watery pulp of fibrous material, and a comparatively large quantity of comminuted fusible waterproofing material, forming the mixture into a layer, and thereafter without evaporating the water in the layer, subjecting said layer to heat sufficient to soften the waterproofing material but not to evaporate the water in the layer.

1,338,038. CARBID-LAMP BURNER. LOUIS EDWARD POLHEMUS, Miami, Ariz. Filed Apr. 25, 1919. Serial No. 292,596. 3 Claims. (Cl. 67—105.)



1. A burner of the character described comprising a cylindrical body portion having a discharge opening in one side thereof, and a transversely extending flange formed integral with the body portion and traversing the upper end of the same.

1,338,039. GAS-ENGINE. LEWIS W. PORTER, near New Carlisle, Ohio. Filed June 30, 1919. Serial No. 307,642. 12 Claims. (Cl. 123—15.)

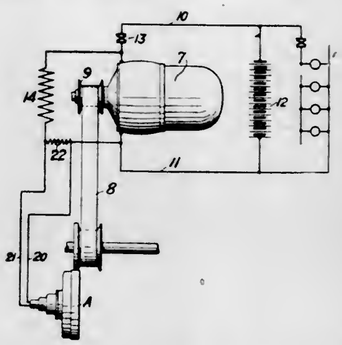


1. In an engine, the combination, of a cylinder, a cylindrical piston mounted to revolve therein having a peripheral flange intersecting the wall of the cylinder and provided with a tangential explosion chamber open at the periphery of the piston, means to deliver a gaseous charge under pressure to said chamber, means for exploding the charge therein, an exhaust port and means to restore normal atmospheric pressure in the explosion chamber after each spent charge therein.

1,338,040. PRODUCTION OF ACETATES, &c. JAMES W. H. RANDALL, Western Port, Md., assignor to Industrial Chemical Company, New York, N. Y., a Corporation of New York. Filed June 27, 1917. Serial No. 177,414. 12 Claims. (Cl. 23—24.)

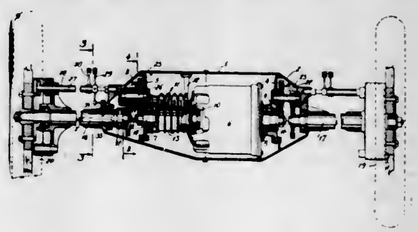
12. The process of making acetates from water soluble sugary material which comprises forming a causticized water solution of such material combined with caustic alkali and combining therewith quicklime to form acetates and produce substantially dry causticized material.

1,338,041. DEVICE FOR PREVENTING EXCESSIVE WEAR ON CAR-LIGHTING DYNAMOS. HARRY D. ROHMAN, New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Filed Aug. 19, 1916. Serial No. 115,777. 9 Claims. (Cl. 171—231.)



1. In a car lighting system, the combination of a dynamo-electric machine, a slipping belt therefor slipping at a predetermined standard or rate of train speed, and means under the control of the train speed for automatically determining a new standard or rate at which the belt slips.

1,338,042. DRIVING-AXLE CONSTRUCTION FOR VEHICLES. EDWARD T. ROSS, Newark, N. J., and MAXIMILLIAN O. TRUDEAU, Woodmont, Conn. Filed July 5, 1917. Serial No. 178,581. 3 Claims. (Cl. 180—62.)



1. A driving axle construction for re-action-motor driven vehicles comprising a reaction motor having two oppositely rotating power elements and a speed reducing gearing connecting each of said elements to a driving axle which drives a traction wheel, and means under the control of the driver of the vehicle for disconnecting from a driving axle its associated power element when the vehicle is to be brought to rest.

2. A driving axle construction for re-action-motor driven vehicles comprising a reaction motor having two oppositely rotating power elements and a speed reducing gearing connecting each of said elements to a driving axle which drives a traction wheel, and means associated with brake-applying mechanism of the vehicle for automatically disconnecting a driving shaft from its associated power element when the vehicle brakes are applied.

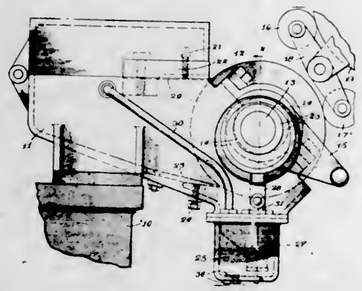
3. A driving axle construction for re-action-motor driven vehicles comprising a central motor casing, a gear casing at each end of the motor casing and separated therefrom by a dividing partition, a re-action motor in the casing having two oppositely rotating power elements each of which has a shaft extending through a partition into one of the gear casings, a pair of driving axles the inner end of each of which projects into one of the gear casings, the motor elements, shafts and the driving axles being in alinement with one another.

1,338,043. COTTER-PIN PULLER. ARTHUR L. SANDIN, Bismarck, N. D. Filed Jan. 2, 1919. Serial No. 269,280. 1 Claim. (Cl. 294—43.)



A cotter pin puller comprising crossed handles pivoted to each other at their points of intersection and extended to form confronting jaws, said jaws being parallel and when closed approximately contacting with each other for a portion of their length and then being gradually curved into a plane at right angles to the plane of pivotal movement of the handles, those portions of the jaws extending at right angles to the handles having their inner faces outwardly divergent, the extremities of the jaws being pointed and said extremities being directed toward each other, the angular jaws providing a fulcrum upon which the puller may be rocked against the work in order to remove a cotter pin.

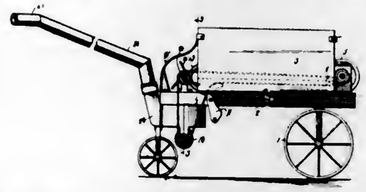
1,338,044. INKING MECHANISM. ERNEST JAMES SMITH, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1916. Serial No. 134,181. 13 Claims. (Cl. 101—363.)



2. In an inking mechanism, the combination of an ink fountain, a fountain roller revolubly mounted therein, a pair of scrapers supported in contact with said roller at separated points circumferentially of the roller, one of said scrapers being arranged to support a supply of ink, and means for straining the ink removed from said roller by the latter scraper.

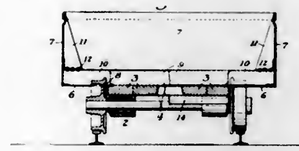
1,338,045. STRAW-SPREADER. JOHN HENRY SMITH, Ellinwood, Kans. Filed Apr. 10, 1918, Serial No. 227,702. Renewed Oct. 25, 1919. Serial No. 333,369. 1 Claim. (Cl. 193—21.)

In a straw spreader, the combination with a portable support, a motor thereon, a hopper carried by the support and having downwardly converging sides, and an endless conveyer moving along the bottom of said hopper; of a rotary beater at the delivery end of said conveyer, its axis being transverse to the length of the hopper, a beater casing overlying the beater and connected with the ends of the side walls of the hopper, the ends of the beater



casing being open, a rotary suction fan whose casing underlies the beater and communicates through its top with the interior of the beater casing, a delivery tube leading from the fan casing, a nozzle at the outer end of said tube, and means for driving the several instrumentalities from the motor.

1,338,046. MINE-CAR. KLAUS SOLLIE, Youngstown, Ohio. Filed Dec. 16, 1919. Serial No. 345,329. 8 Claims. (Cl. 105—364.)



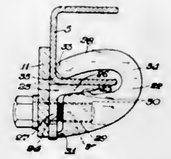
3. A car body provided with wheel receiving openings in the bottom thereof, and bracing members extending transversely of the bottom and forming coverings for said openings, substantially as described.

1,338,047. WORD-DISPLAYING SIGNALING DEVICE FOR AUTOMOBILE CARS. CLIFFORD A. SWANK, Denver, Colo. Filed Oct. 21, 1919. Serial No. 332,241. 7 Claims. (Cl. 116—51.)



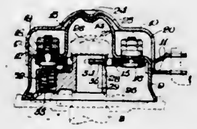
1. A stop and turn sign for automobiles comprising a casing provided with a plurality of swinging plates with the words Stop and Turn appearing thereon and means including a stem for turning said plates to display or not to display said words, said plates having the word "Stop" on both sides of said plates when turned in one direction and the word "Turn" on both sides when turned in the opposite direction, for normally holding said plates in a non-sign displaying position, and means for locking said plates in the "Turn" and "Stop" sign word displaying positions, said non-sign displaying position of said plates being controlled by a stop in said casing, a spring arranged to engage the opposite sides of said stop, and means including a stem arranged to turn said plates and a crank lever secured to said stem and arranged to engage said spring, said plates being oscillatingly mounted at their opposite ends, a stem secured to one of said plates, an eccentrically or laterally positioned trunnion on each plate at one side of the pivotal trunnion of each plate, and a connecting rod pivotally connected to the eccentrically positioned trunnions of all of said plates, and arranged to move with them.

1,338,048. AUTOMOBILE-BUMPER. RAYMOND J. TRAUPMANN, Milwaukee, Wis., assignor to Milwaukee Auto Engine & Supply Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 19, 1919. Serial No. 277,924. 14 Claims. (Cl. 293—55.)



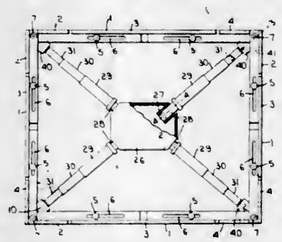
8. In an automobile bumper attaching device for securing the bumper to the flanged side bars, a plurality of clamps, each clamp comprising a hooked member, an angled member having wedging engagement with the hooked member for clamping engagement of both members with one of the flanges of the side bar, and means securing both of said members in position.

1,338,049. TIMER. RAYMOND J. TRAUPMANN, Milwaukee, Wis., assignor to Milwaukee Auto Engine & Supply Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 19, 1919. Serial No. 277,925. 1 Claim. (Cl. 200—24.)



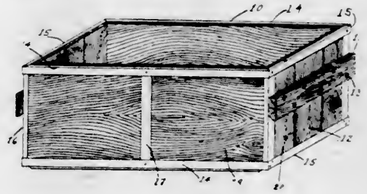
In a timer, the combination, with the cam shaft, of an arm secured near the end of said shaft, a contact yieldingly mounted on said arm and disposed parallel to said shaft, a metal casing having a portion forming a housing for the arm and a conical portion extending from the top of the housing to form a housing for the end of the shaft, an annular ring of insulating material secured to the inside of the top of the housing adjacent said conical portion, fixed contacts inset in said ring and coöperating with the contact on said arm, a cover having a depending flange and a top provided with a conical projection engaging the conical portion of the top of the casing and forming with the top of said casing an annular chamber, said cover having an outwardly directed neck portion, terminals carried by said fixed contacts within the annular chamber and receiving the ends of the wires passing through said neck portion and into said chamber.

1,338,050. MACHINE FOR STRETCHING HIDES. FRANK W. TUCKER, Lynn, Mass., assignor to Francis A. Shea, of Boston, Mass. Filed July 25, 1918. Serial No. 246,625. 7 Claims. (Cl. 149—21.)



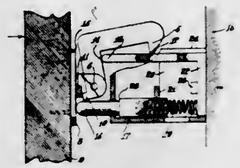
4. In a machine for stretching hides, the combination with an expansible frame comprising side members rigidly connected at the corners, each side member comprising a plurality of sections adjustable longitudinally relative to each other thereby to permit said side members to be extended, of a strut member engaging the frame at each corner, and pneumatic means acting on the strut members to force them outwardly and thereby expand the frame.

1,338,051. SHOP-BOX. ALPHEUS ALLEN TUTTLE, New Britain, Conn. Filed Oct. 4, 1919. Serial No. 328,503. 3 Claims. (Cl. 217—17.)



1. A shop box of rectangular form comprising a skeleton frame structure made of angle iron and filling material in the form of boards for the bottom, sides, and ends, constructed and arranged for the said filling material to be assembled in the said frame structure in the order named and so that the boards for the ends serve to lock the other boards in place, and the said frame structure comprising at the ends at the bottom cross members of angle iron, suitably to serve as seats for the ends of longitudinally disposed boards for the bottom.

1,338,052. DOOR-HOLDER. HENRY G. VOIGHT, New Haven, Conn. Filed Aug. 1, 1919. Serial No. 314,702. 6 Claims. (Cl. 292—130.)



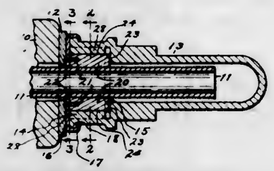
1. A door holder comprising, an L-shaped latch member pivoted on one arm and having a catch shoulder on the other arm, a stationary member having a catch shoulder adapted to be interlocked with the shoulder on the latch member and having a releasing shoulder for engaging the pivoted arm of said latch member.

1,338,053. LOCK MECHANISM. HENRY G. VOIGHT, New Haven, Conn. Filed Aug. 15, 1919. Serial No. 317,649. 11 Claims. (Cl. 70—47.)



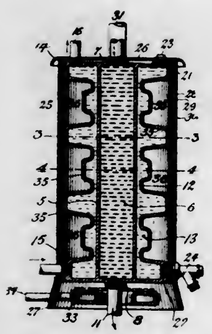
3. In a cylinder lock construction, a sheet metal housing having a tubular portion and an extension therefrom closed at its outer end, a rotatable plug located in the tubular portion and an insert in said housing having recesses for the springs and the outer ends of the pins, said housing acting as a closure for said recesses.

1,338,054. DUST-CAP FOR VALVE-STEMS. WALTER E. VOLLMER, Sandusky, Ohio. Filed Jan. 20, 1920. Serial No. 352,890. 6 Claims. (Cl. 152—12.)



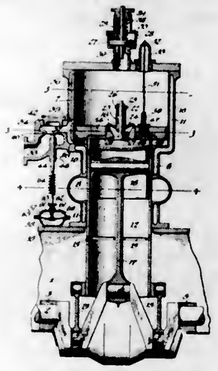
1. The combination, with a wheel-felly, an externally screw-threaded valve-stem projecting from the felly, and an elastic and compressible washer surrounding said stem at the exterior of the felly, of a casing arranged at the outer face of the washer and surrounding said stem and having an internal flange opposite the washer, a split nut surrounded by said casing and threaded onto said stem and clamping the flange and the washer to the felly and comprising two sections which embrace opposite sides respectively of said stem and have member projecting into the washer, and means for actuating the nut-sections radially outwardly, the nut-sections and the nut-surrounding portion of the casing having means whereby the nut-sections are locked against radial outward movement, said locking means being adapted to be rendered inoperative by a partial rotation of the casing in the required direction, and the aforesaid flange being cut away to accommodate the location of the aforesaid projecting members of the nut-sections and to permit said rotation of the casing and movement of the nut-sections radially outwardly.

1,338,055. WATER-HEATER. CALVIN P. WADLEY, Buffalo, N. Y. Filed Mar. 22, 1918. Serial No. 223,881. 1 Claim. (Cl. 122—37.)



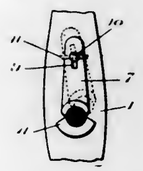
A water heater comprising an inner heating chamber adapted to be connected with the water space of a boiler, an outer heating chamber surrounding said inner chamber and adapted to be connected with the fixtures which are to be supplied with hot water, a burner arranged to deliver a flame against said outer chamber, and a casing inclosing said chambers and burner, and provided at its lower end with an inlet for air and an outlet at its upper end for the escape of products of combustion, said outer chamber having its wall constructed of a plurality of transversely elongated or oval compartments each of which is arranged with its narrow ends close to the body of said casing while the opposite wide sides thereof are separated by intervening passages from said body and the several compartments being arranged so that the narrow ends of one compartments are vertically in line with the passages between the casing body and the wide sides of adjacent compartments.

1,338,056. INTERNAL-COMBUSTION ENGINE. FRANK S. WAHL, North Tonawanda, N. Y. Filed Nov. 30, 1917. Serial No. 204,571. 9 Claims. (Cl. 123—50.)



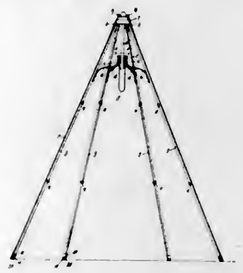
1. An internal combustion engine comprising a reciprocating firing cylinder, a reciprocating firing piston arranged in said cylinder and moving oppositely thereto, and means for supplying said cylinder with an explosive medium comprising a pump plunger connected with said firing cylinder and a pump cylinder in which said plunger reciprocates and is adapted to receive an explosive medium on opposite sides of said plunger.

1,338,057. PAPER-HOLDER. JOSEPH C. WASSER, Caseyville, Ill. Filed Jan. 10, 1920. Serial No. 350,535. 2 Claims. (Cl. 211—31.)



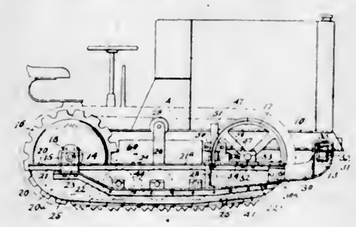
1. A paper holder having a seat for a paper-holding rod and a latch carried by the holder above said seat for vertical sliding movement and for swinging movement to seat on the rod and to swing with the rod.

1,338,058. TENT. GARDNER M. WEBBER, Stoneham, Mass. Filed Feb. 11, 1920. Serial No. 357,826. 6 Claims. (Cl. 135—4.)



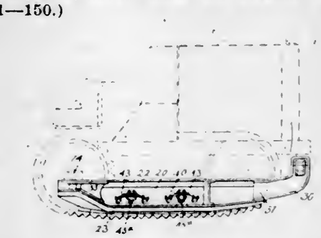
6. A tent comprising a cap, a plurality of radial supports pivoted to and supporting said cap, a covering, a rod projecting downwardly from said cap and supported thereby, a sleeve mounted upon said rod, a plurality of straps fastened to said sleeve, a plurality of resilient braces connecting said sleeve and said supports and extending beneath said straps, said braces being adapted to exert a continuous yielding pressure against said supports, and means to pull said sleeve downwardly upon said rod.

1,338,059. TRACTION-FRAME CONSTRUCTION FOR TRACK-LAYING TRACTORS. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Feb. 11, 1918. Serial No. 216,551. Renewed Sept. 15, 1919. Serial No. 323,999. 8 Claims. (Cl. 21—150.)



1. A traction frame for a track laying tractor comprising two built up parallel beams, each of which includes an angle bar forming the upper chord of said beam, an angle bar forming the lower chord of said beam, and a plate which spans the space between said angle bars and is riveted to both, combined with a yoke having two rearwardly extended arms which are respectively connected with the two beams each arms being fitted between and riveted to the front ends of the two angle bars of the associated beam.

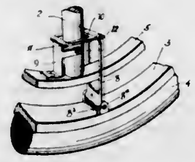
1,338,060. TRACK-LAYING TRACTOR. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Nov. 18, 1918, Serial No. 262,938. Renewed Sept. 15, 1919. Serial No. 324,000. 5 Claims. (Cl. 21—150.)



1. In a track laying tractor, the combination of a track frame comprising two parallel longitudinally extended side beams, two spring seat blocks located in transverse alinement outside of and close to the two side beams, said two spring seat blocks having a rocking connection with the track frame, a leaf spring secured near its middle to each spring seat block and extended forwardly and rearwardly therefrom, two transversely extended shafts which respectively connect the front ends of said springs and the rear ends of said springs, and track wheels rotatably mounted upon said shafts between said side beams.

1,338,061. RESILIENT WHEEL. WILLIAM A. WITTEN, Duncan, Okla. Filed Nov. 28, 1919. Serial No. 341,254. 1 Claim. (Cl. 152—32.)

The combination with a vehicle wheel of a felly and an inner rim, springs between the felly and rim, of a plurality of braces pivotally attached to the rim and felly, each of said braces comprising two pivoted links, one link having its arms passing around the rim, the arms of



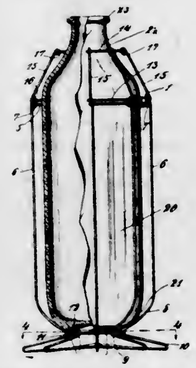
the other link passing around the spokes, both links pivoted together to form a brace, and means for retaining the springs between the felly and rim.

1,338,062. WIRE-ROPE CLAMP. CHARLES A. WOLFE. Suedberg, Pa. Filed May 19, 1916. Serial No. 98,482 1 Claim. (Cl. 24—125.)



The combination, in a wire rope clamp, of one plate, U-shaped in cross section; a rectangular bearing face provided in the crotch of said plate, semi-circular in cross section and corrugated spirally corresponding with the strands of the wire rope to which the clamp is to be applied; threaded stems integral with said plate; a second plate provided at its ends with circular orifices to receive the threaded stems therethrough; a centrally disposed extension formed integral with said second plate, rectangular in cross section; a rectangular bearing face provided upon the extremity of said extension, semi-circular in cross section and corrugated spirally corresponding to the strands of the wire rope to which the clamp is to be applied, and co-acting with said crotch bearing face; and two nuts adapted to co-act with the threaded stems to clamp the two plates upon the wire rope.

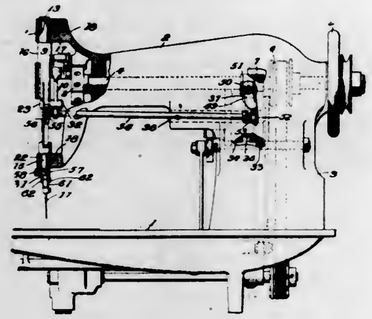
1,338,063. BOTTLE-PROTECTOR. EVERETT K. WOLFE, Westchester, N. Y. Filed Feb. 4, 1918. Serial No. 215,232. 4 Claims. (Cl. 215—3.)



1. A protector for nursing bottles, comprising a cage member having a number of wires spaced apart in order to inclose the bottle and provided with waist bends; a waist ring inclosing said wires and engaging said waist bends so as to brace the same, thereby forming a waist, the parts being so arranged that said waist ring engages

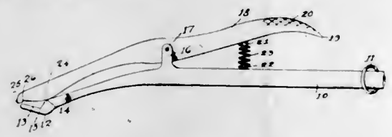
the outer peripheral surfaces of the wires of said cage member, said waist as a whole being curved in order to accommodate the lower end of a bottle rested thereupon, said wires being further provided with a V bend each, the several V bends together forming a base.

1,338,064. SEWING-MACHINE. CHARLES M. ABERCROMBIE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed June 20, 1916. Serial No. 104,653. 3 Claims. (Cl. 112—158.)



1. In a sewing machine, in combination, a needle-bar, means for imparting endwise reciprocations to said needle-bar, a needle-carrying bracket sustained by said needle-bar, a needle-vibrating bar arranged telescopically with respect to the needle-bar and projecting beyond the upper end of the latter, a yoke having spaced bearings of which one bearing is journaled upon said needle-bar and the other bearing is sustained by said needle-vibrating bar, means for vibrating said yoke from said actuating shaft, operative connections between the second-named bearing of said yoke and said needle-vibrating bar for oscillating the latter, and operative connections between the needle-vibrating bar and the needle whereby the oscillatory movements of the former impart bodily lateral movements to the latter.

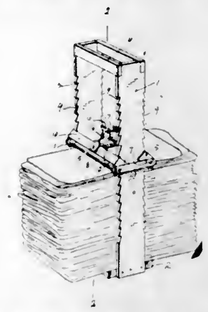
1,338,065. TONGS. JOSEPH BERNATH, Merrill, Mich. Filed Aug. 24, 1918. Serial No. 251,231. 1 Claim. (Cl. 294—31.)



An instrument of the character described, comprising in combination, a gripping member of round cross-section at one end and channeled at the other, a ring at the round end for suspending the instrument and a grip at the channeled end having a straight portion and a shoulder forming an angle at their meeting points, and a second gripping member pivotally secured to said first named member intermediate their ends, a shoulder on said second member, and a detent on the same oppositely disposed to the shoulder and grip respectively on said first member, and coöperating with the same for gripping the edge of a pot cover between both members.

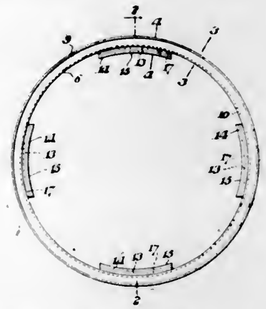
1,338,066. MAIL CARRIER OR CONTAINER. LECK H. BLOCKER, Nash, Tex. Filed Oct. 11, 1919. Serial No. 329,956. 4 Claims. (Cl. 224—50.)

4. In a portable mail carrier, a carrier frame having parallel uprights provided with ratchet teeth upon their opposite edges, a clamping frame comprising side pieces, opposing clamps loosely connected to said side pieces, tensioning means to hold said clamps in engagement with said teeth, and means on the clamps to be actuated to



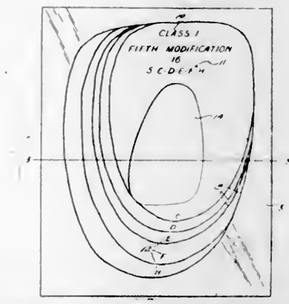
release the clamps from engagement with the teeth to allow the clamping frame to be moved on the carrier frame.

1,338,067. DEMOUNTABLE TIRE-RIM. JOHN VERNER BROWNLEE, Philadelphia, Pa. Filed Aug. 15, 1919. Serial No. 317,704. 4 Claims. (Cl. 152—21.)



1. A demountable tire rim comprising two annular sections having margins and each provided with a tire retaining flange, one of said sections being provided with a plurality of sector members extending back from the abutting margin of said rim contiguous to the body of said section, and the other of said sections being provided with a plurality of complemental sector members extending around the first mentioned sector members and having portions projecting between said first mentioned sector members and the body of the rim section to which they are attached.

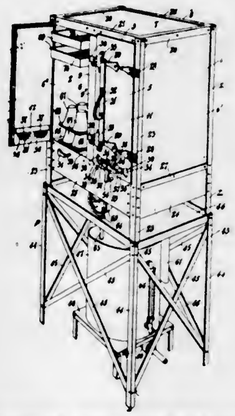
1,338,068. DENTAL CHART. ALDEN J. BUSH, Columbus, Ohio. Filed June 13, 1919. Serial No. 303,929. 8 Claims. (Cl. 35—16.)



1. A chart for dentists, comprising a sheet of substantially transparent material having an outline designated

thereon representing the inverted contour of a tooth enlarged to substantially the size of a human face, whereby when the sheet is placed in close relation with a human face the outline resemblance of the latter with respect to the tooth outline designated upon said chart may be determined.

1,338,069. STERILIZER. HENRY M. CASE, Cincinnati, Ohio. Filed Dec. 1, 1917. Serial No. 204,835. 5 Claims. (Cl. 167—3.)



1. In a sterilizer, a cabinet of substantially rectangular box-like formation with permanently closed lateral sides, back and top, and front adapted to be temporarily closed or opened for insertion or removal of articles to be sterilized, means for admitting steam above atmospheric pressure to the interior of said cabinet, means for admitting air to said cabinet before it is opened, to condense the steam in the cabinet, means to cut off the admission of said steam, and means to cut off the admission of said air, each of these means comprising an element whereby it prevents operation of the other means, whereby admission of said air before admission of said steam is cut off, or admission of steam before admission of said air is cut off, is prevented.

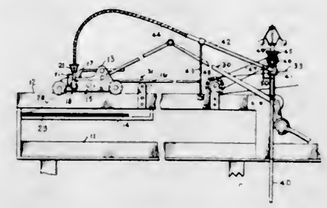
1,338,070. GRATE-BAR. LEONARD L. CLOSE, Marion, Ind., assignor to Marion Foundry Corporation, Marion, Ind., a Corporation. Filed Apr. 21, 1919. Serial No. 291,626. 1 Claim. (Cl. 126—179.)



A grate-bar comprising a group of spaced members, an inner member of said group having its lower edge formed on a convex curve for increasing the vertical diameter of its central portion, means for joining the ends of all the members in the group together to form a unitary structure, a plurality of transverse walls for connecting said members at points intermediate their ends, and laterally disposed fingers having horizontal portions formed substantially of uniform thickness with lower receding portions terminating in cutting edges, for reducing the size of the larger particles of the residue of the burnt fuel.

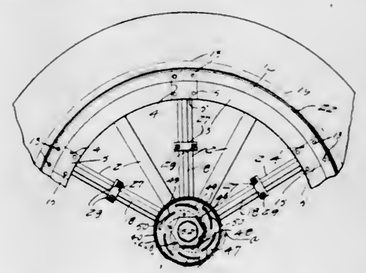
1,338,071. APPARATUS FOR DISCHARGING STATIC ELECTRICITY FROM PAPER AND THE LIKE. HERBERT COHEN, New York, N. Y. Filed Oct. 29, 1918. Serial No. 260,144. 2 Claims. (Cl. 34—18.)

1. In an apparatus for discharging static electricity from paper and the like, the combination with devices adapted to receive a sheet of paper and deliver same therefrom; of a burner adapted to direct the flame thereof toward said paper, and means adapted to automatically extinguish said flame when the apparatus ceases operation and to permit said flame to burn when said operation takes place; said flame controlling means comprising a



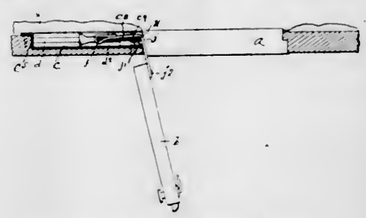
valve, a governor controlling said valve, and means operatively connecting said governor with a moving part of the apparatus, whereby when the apparatus is in operation the said valve may be opened by the governor and when the apparatus is not in operation the valve may remain closed.

1,338,072. DEMOUNTABLE RIM AND LOCK THEREFOR FOR WHEELS. RUSSELL R. CRAFT, Norfolk, Nebr. Filed Aug. 25, 1919. Serial No. 319,580. 6 Claims. (Cl. 152—21.)



1. The combination with a wheel having a felly and a demountable rim thereon, of an annular keeper plate secured to the inner face of the rim and provided with recesses, a plurality of locking members carried by the spokes of the wheel, whereby their outer ends may engage the recesses of the keeper plate, and a single actuator rotatably carried by the hub of the wheel and provided with cam connections with the locking members for moving them radially outwardly, so that their outer ends may engage the recesses of the keeper plate, or move radially inwardly, to disengage the outer ends of the locking members from the recesses, whereby the demountable rim may be removed.

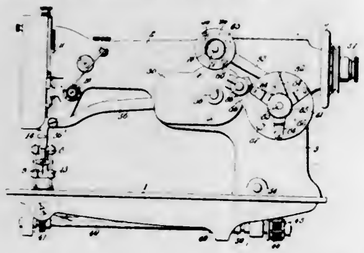
1,338,073. DOOR-CONTROLLING APPARATUS. WALTER P. DORL, Detroit, Mich. Filed Feb. 26, 1919. Serial No. 279,244. 1 Claim. (Cl. 16—9.)



In an apparatus of the ind described, the combination of a door, a jamb to which said door is pivotally attached,

a flexible strap attached to said door at one end of said strap, resilient means secured to said jamb and operating by said strap to close the door, a friction roller over which said strap passes when the door is opened, means on said strap adapted to engage said roller and prevent the retraction of said strap and closing of said door when said door is at an angle with the jamb, said engaging means being adapted to be released from said roller permitting said door to be closed.

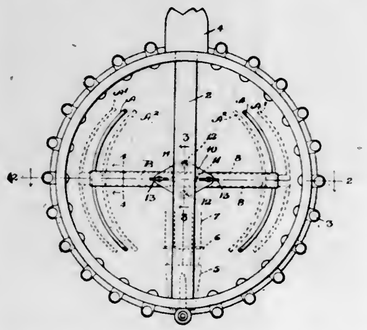
1,338,074. EMBROIDERY-SEWING MACHINE. GEORGE M. EAMES and JOHN S. FINCH, Bridgeport, Conn., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 24, 1916. Serial No. 99,490. 18 Claims. (Cl. 112—158.)



1. In a sewing machine, the combination with stitch-forming mechanism including a needle, a driving shaft, and actuating mechanism for imparting endwise reciprocating movements and lateral movements to said needle, of a pattern-cam, means for driving said pattern-cam, and operative connections between said pattern-cam and said actuating mechanism for automatically varying the mean positions of the lateral movements of the needle and for automatically varying the amplitude of said lateral movements, said operative connections including means for automatically varying in inverse ratios the mean position variations relatively to the amplitude variations in the needle movements.

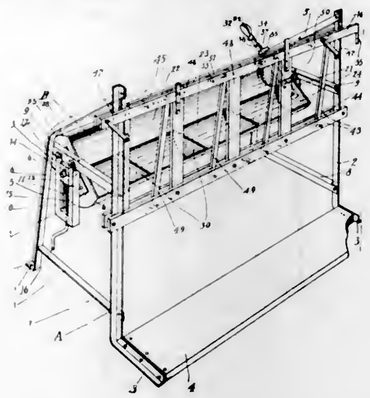
1,338,075. [WITHDRAWN.]

1,338,076. HEAD-TIGHTENING DEVICE FOR BANJOS AND THE LIKE. ALBERT D. GROVER, New York, N. Y. Filed May 16, 1919. Serial No. 297,465. 12 Claims. (Cl. 84—121.)



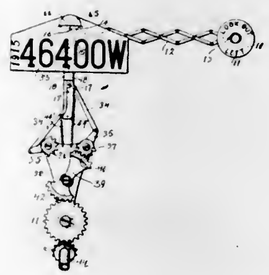
1. In combination with a banjo or the like, a stiff bar connected at or near its center with the stick of the instrument, and separated curved contact members supported on the bar between the free ends of said bar and the head, said members bearing against the inner side of the head to exert an outward pressure thereon under the influence of said bar and thereby maintain the head taut.

1,338,077. ANIMAL FEED-TROUGH. JOHN HECTOR, Sauk Center, Minn. Filed Aug. 2, 1919. Serial No. 314,854. 7 Claims. (Cl. 119—61.)



1. A feeding device, comprising a frame, a horizontally disposed double trough swingingly supported on the frame, said double trough consisting of two individual open top troughs arranged side by side and joined together the open tops of said individual troughs being at an angle to each other, partition walls in one of said individual troughs, means for swinging said double trough, and locking means for locking the latter to the frame in any one of two positions so that the opening of either of said troughs may be held in level position.

1,338,078. VEHICLE SIGNALING DEVICE. ANTHONEY J. HILGER, Milwaukee, and RUDOLPH URCHNIAK, West Allis, Wis. Filed Jan. 14, 1916. Serial No. 72,020. 1 Claim. (Cl. 74—14.)

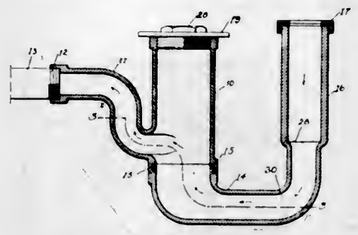


In a device of the class described, the combination, with direction indicators, of means for moving said indicators into and out of display position, including slidable rods, cranked shafts, a link connecting each rod with one of said shafts, means for moving either of said shafts independently comprising a mutilated gear on each shaft, a segmental gear adapted to be moved into or out of mesh with either of said mutilated gears, and means for turning said segmental gear.

1,338,079. TRAP. FRANKLIN G. HIRST, Philadelphia, Pa. Filed Aug. 22, 1919. Serial No. 319,078. 1 Claim. (Cl. 182—12.)

A trap, located beneath the floor line, comprising a body having a threaded opening in the base thereof, an integral outlet pipe extending from one side and adjacent to said base opening, a separable inlet pipe threaded to

engage the threaded base opening of said trap body and being increased in width so that at its point of connection with said trap body it is of substantially the same circumference as said trap body, substantially as shown and described.

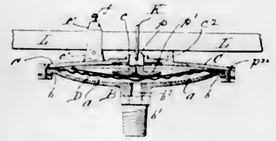


1,338,080. REGULATOR. WILLIAM HODGSON, New York, N. Y. Filed Jan. 29, 1919. Serial No. 273,905. 5 Claims. (Cl. 236—26.)



3. In a regulator of the character designated, the combination, with the diaphragm and pressure chamber base plate formed with a peripheral inclined surface, of an annular gripping member contacting with the margin of the diaphragm in opposition to the peripherally inclined surface of the base plate, a cap plate formed with an annular groove coincident with said annular gripping member and the inclined peripheral surface of said pressure chamber base plate, and clamping means for securing the parts together in such manner that the annular gripping member functions as a wedge to bind the periphery of the diaphragm.

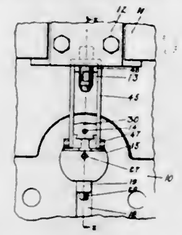
1,338,081. REGULATOR. WILLIAM HODGSON, New York, N. Y. Filed Feb. 6, 1919. Serial No. 275,416. 5 Claims. (Cl. 236—26.)



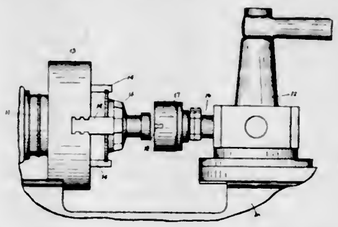
1. In a regulator of the character designated, the combination, with the diaphragm, of a plunger for transmitting the motion of said diaphragm to the actuating mechanism, said plunger being rigid with a rigid central portion and with a circumscribing elastic resilient extension thereof for contactual engagement with said diaphragm, for the purpose described.

1,338,082. PIERCING-PUNCH AND DIE. EMIL IBACH, Philadelphia, Pa., assignor to Budd Wheel Corporation, Philadelphia, Pa., a Corporation of Virginia. Filed December 28, 1918. Serial No. 268,641. 18 Claims. (Cl. 164—86.)

1. In a machine of the class described, in combination, a die, a punch, a support extending between said die and punch for holding an article in an inclined position between said die and said punch, and means for causing a relative movement between said die and punch to force the punch through the article and form an opening therein at an angle to a plane portion thereof.



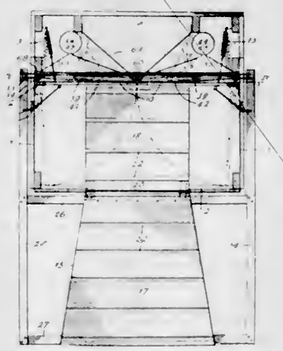
1,338,083. METHOD AND APPARATUS FOR CUTTING LEFT-HANDED THREADS. EMIL IBACH, Philadelphia, Pa., assignor to Budd Wheel Corporation, Philadelphia, Pa., a Corporation of Virginia. Filed Jan. 24, 1919. Serial No. 272,892. 5 Claims. (Cl. 10—1.)



1. A method of cutting left-handed threads comprising the insertion of the work upon which the threads are to be cut in the die-head of a lathe, rotating the work in a clockwise direction, and feeding the die-head away from the work during the rotation of the work.

4. In an apparatus for cutting left-handed threads, the combination of a die-head, a plurality of thread chasers removably mounted in said die-head and extending radially thereof, each of said chasers having a beveled centering surface on the inside edge of its operating face, work holding means rotatable in a clockwise direction, and means for feeding said die-head away from said work holding means.

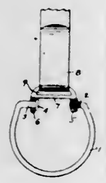
1,338,084. FLYTRAP. CHARLES H. JOHNSON, Colony, Kans. Filed July 12, 1918. Serial No. 244,526. 5 Claims. (Cl. 119—156.)



1. In a device of the character described, a passageway for animals, wings of comparatively opaque mate-

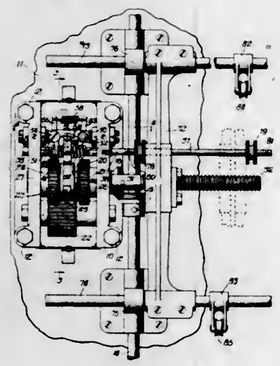
rial disposed within said passageway and adapted to remove flies from each animal passing between said wings, wings of foraminous material arranged opposite the first-mentioned wings, doors for imprisoning the flies on the wings, means controlled by the animals for opening said doors, chutes communicating with said wings, and fly impounding means communicating with said chutes.

1,338,085. KEY-RING. HERLUF G. JOHNSON, Portland, Oreg. Filed June 4, 1919. Serial No. 301,759. 2 Claims. (Cl. 59—99.)



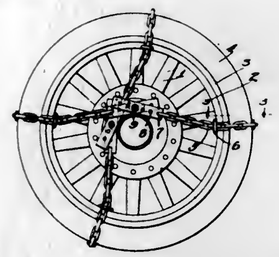
2. A key retaining device consisting of a portion of a ring one end of which is threaded and the other end of which is headed, a lock adapted to bridge the open part in said ring by engaging the headed end of said ring underneath said head and adapted to be screwed upon the threaded end of said ring in a manner that when it is screwed up into place, the head on said ring will shoulder against the side of said lock, said lock having a stiffening bar formed between its ring engaging portions and at the same time forming an eye with the remaining portion of the lock which is adapted to engage a fastening means consisting of a hook or chain suspended from the wearer's clothing.

1,338,086. REVERSING MECHANISM. JAMES B. KENDALL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1917. Serial No. 148,214. 2 Claims. (Cl. 74—59.)



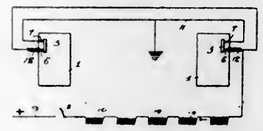
1. In combination, a driving member, a reversible clutch mechanism therefor including a reciprocally operated member, a reciprocally operated rod, springs controlled thereby and adapted to engage opposite sides of said reciprocally operated member to change its position at the instant of reversal, a pair of trigger members adapted to separately engage said reciprocally operated member to retain it against movement until the moment of reversal, and means carried by said reciprocally operated rod to control the engagement and disengagement of said triggers with said reciprocally operated member.

1,338,087. ANTISKID-CHAIN. EMIL R. KLEMM, Chicago, Ill. Filed May 10, 1919. Serial No. 296,080. 5 Claims. (Cl. 152—14.)



1. In an anti-skid device the combination with a wheel of a plurality of oppositely positioned chains removably looped around the tire thereof, a plate on the inner end of each chain, and means for removably securing the plates of oppositely positioned chains together.

1,338,088. ELECTRIC HEATING SYSTEM. JOHN S. MCWHIRTER, New York, N. Y. Filed Nov. 15, 1917. Serial No. 202,141. 6 Claims. (Cl. 219—20.)



1. In an electric heating system for cars, an electric heater, a circuit therefor, a car reversing controller and means whereby the heating circuit is closed only when said reversing controller is in its normal running position.

1,338,089. TOBACCO MIXTURE. CLARK C. NELSON, Rocky Ford, Colo. Filed Feb. 3, 1919. Serial No. 274,712. 2 Claims. (Cl. 131—6.)

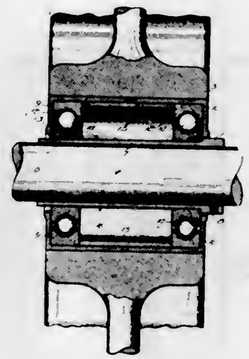
2. A smoking tobacco blend composed of from one-half to two-thirds smoking tobacco, and from one-third to one-half of sugar beet pulp.

1,338,090. EAR-BANDAGE FOR INFANTS. ELSIE RASER PARVIN, Cynwyd, Pa. Filed Feb. 26, 1919, Serial No. 279,451. Renewed Feb. 28, 1920. Serial No. 362,064. 1 Claim. (Cl. 128—76.)



An article of manufacture including a flexible band adapted to pass about the rear portion of the head, a pair of non-resilient flexible tabs carried on opposite ends of said band and made of adhesive plaster whereby said tabs may be caused to adhere to opposite sides of the ears for holding the same and the band in place, and pieces of gauze material interposed between said pairs of tabs and being of a size to project beyond the tabs.

1,338,091. BEARING FOR LOOSE PULLEYS. CARL F. PEARSON, Chicago, Ill., assignor to Chicago Machine & Motor Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1919. Serial No. 289,079. 1 Claim. (Cl. 64—36.)



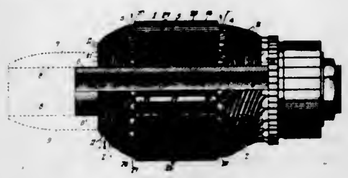
A loose pulley providing a hub with a concentric bore, having in coöperative association two cup-shaped retaining members, with their open ends facing each other and their inwardly converging walls in substantially the same radial plane as the outside surface of the pulley hub to provide a closed bearing housing; a ball bearing structure within each cup, near the respective radially disposed wall thereof; a spacing ring in said cups for holding the bearing members in place, within the cups, and neatly fitting said cups, and a sleeve within said housing for a neat fit with the shaft upon which the pulley is to be supported.

1,338,092. COMMUTATOR. JOHN W. PEARSON, Chicago, Ill. Filed Sept. 6, 1918. Serial No. 252,921. 5 Claims. (Cl. 171—321.)



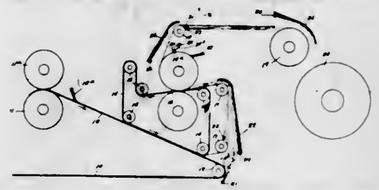
1. In a device of the character described, a pair of concentric clamping members adapted to be assembled telescopically, said members having corresponding thin malleable flanges, adapted to be expanded for locking said members together.

1,338,093. ARMATURE. JOHN W. PEARSON, Chicago, Ill. Filed Sept. 12, 1918. Serial No. 253,746. 5 Claims. (Cl. 171—206.)



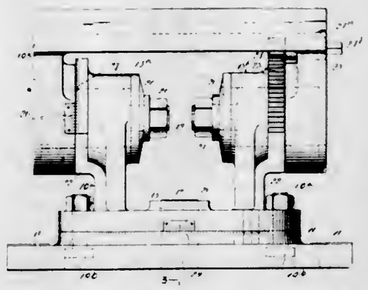
4. The method of applying the windings to a slot-wound drum armature which consists in placing a set of four guide members in pairs in the slots next adjacent to the two respective slots for the opposite sides of a given coil, winding part of the coils into place and then substituting another set of guides comprising two pairs disposed upon the teeth next adjacent to the said slots respectively for the said winding, and then completing the coil.

1,338,094. PAPER-MAKING. CHARLES E. POPE, Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed Oct. 25, 1918. Serial No. 259,618. 10 Claims. (Cl. 92—49.)



1. In a high speed paper making machine, the combination with a plurality of web supporting devices separated by a substantial distance, of means for utilizing the momentum of the web of paper to transfer a lead strip thereof from one of said devices to the other, comprising apparatus having means for directing currents of air along the path of travel which it is desired to have said lead strip take to reduce the air resistance to the movement of and support said strip, and additional means for directing currents of air against said supported strip to deflect it and thereby cause it to follow a curved path of travel.

1,338,095. ANGLE-PLATE. ANDREW S. REID and ROBERT REID, Beverly, Mass., assignors to Reid Brothers Company, Beverly, Mass., a Corporation of Massachusetts. Filed Feb. 8, 1919, Serial No. 275,766. Renewed Mar. 17, 1920. Serial No. 366,691. 3 Claims. (Cl. 90—58.)

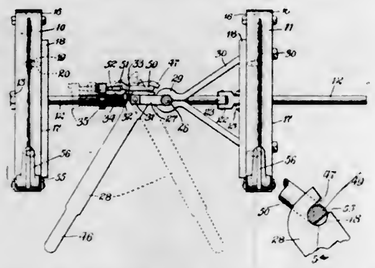


1. An angle plate as described, comprising a base, a mounting vertically swiveled and adjustably clamped to said base, and a top table horizontally pivoted to said mounting by means of pivot studs with heads countersunk into lugs depending from said top table, said studs having reduced threaded stems projecting inwardly therefrom with clamping washers and nuts fitted thereon to engage upright projections of said mounting.

1,338,096. BELT-TIGHTENER. ELMER E. RICHARDSON, Eaton, Ind., assignor of one-half to George J. Miller, Eaton, Ind. Filed Nov. 5, 1917. Serial No. 200,338. 1 Claim. (Cl. 254—55.)

In a device of the character described a support, a stationary clamp thereon, a sliding clamp thereon, spring actuated grip dogs operative upon the support against movement outwardly from said stationary clamp, one of said grip dogs being connected to the sliding clamp, a hand lever of the first order, a fulcrum link therefor connected to said sliding clamp, a slot in the lever outwardly of its fulcrum opening through one edge and having a cir

cular enlargement at its inner end, a link having a bearing portion constructed for snug revoluble engagement in said enlargement and flattened for passage through the slot when the lever and link are in a predetermined relation



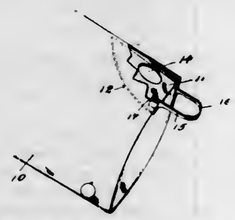
said link being connected to the other of said grip devices, the springs of the last named dog being adapted to move the dog a distance such as to leave the parts freely movable for disengagement of the links from the slot of the lever as described.

1,338,097. TOWEL-CABINET. JACQUES ROUSSO, Los Angeles, Calif. Filed July 29, 1918. Serial No. 247,230. 4 Claims. (Cl. 45—32.)



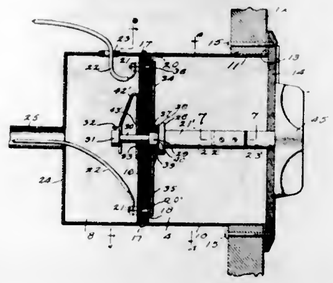
3. A towel cabinet comprising a support; a horizontally disposed rod having its inner end detachably secured to said support; a guide element secured to the outer end of said rod; and yieldable binding elements connected with said support above and on opposite sides of said rod, arranged and adapted to be extended thence outwardly over the top of a bundle of towels suspended on said rod, thence downwardly over the outer side of said bundle and thence inwardly to said support, substantially as described.

1,338,098. SLEEVE CONSTRUCTION. LOUIS SCHNEIDER. Clinton, Mo. Filed May 29, 1919. Serial No. 300,508. 2 Claims. (Cl. 2—61.)



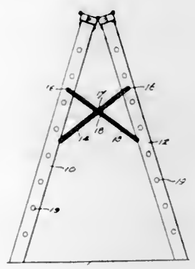
2. The combination with a sleeve of a pocket patch secured at its inner edge to form a pocket opening toward the outer end of the sleeve, said patch having an opening therein adjacent the outer edge for the reception of a finger of the wearer, and a loop element attached within the pocket patch, adapted to be engaged over the finger of a wearer and movable to lie within the pocket.

1,338,099. PERMUTATION-SWITCH. SAMUEL R. SEESE, Vanderbilt, Pa. Filed Apr. 29, 1919. Serial No. 293,509. 3 Claims. (Cl. 200—43.)



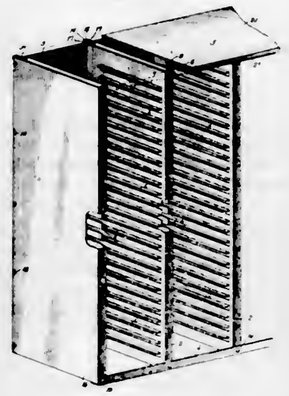
1. A permutation switch of the character described, comprising a support, an annular control member carried by the support and provided with notches and including insulated contact elements, contact arms arranged to travel in proximity to the control member and to engage with the same, spaced shoulders carried by the inner ends of the contact arms, an element connected with one arm to turn it so that the shoulder of such arm engages the shoulder of the other contact arm to advance the other contact arm, and means for indicating the extent of movement of the arms.

1,338,100. STEP AND WALL LADDER. LUDWIG SEGER, Edgewater, N. J. Filed Apr. 11, 1918. Serial No. 227,895. 1 Claim. (Cl. 228—68.)



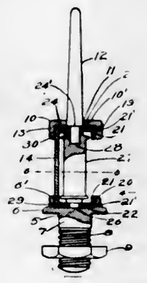
A blank for forming a member of a ladder hinge comprising a cap portion adapted to be used on the top end of a ladder stile, side portions adapted to engage the opposite sides of the ladder stile, a band like extension on one of said side portions adapted to be bent around the sides of the ladder stile, portions extending from the cap portion on both sides thereof, and slots immediately adjacent to the cap portion in the last mentioned portion, said portions being adapted to be bent down in engagement with the front and rear edges of the ladder stile with the portions between the slots curved to form eyes and with the slots adapted to receive the eyes on another hinge member, said eyes after being alined, being adapted to receive the pintle of the hinge.

1,338,101. PRINTER'S RACK. THOMAS SEVERSON, Duluth, Minn., assignor to Duluth Corrugating & Roofing Company, Duluth, Minn., a Corporation of Minnesota. Filed Nov. 15, 1917. Serial No. 202,218. 3 Claims. (Cl. 211—41.)



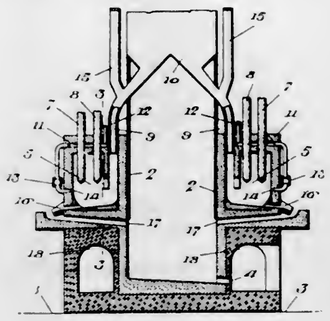
1. In a printer's rack, in combination, side members, one or more partition members, said side and partition members being formed of plates bent back upon themselves, the sides of each of said members being spaced apart, whereby to render said members of hollow formation, supporting ledges stamped and bent outwardly from the inner face of each of said side members and from both sides of each of said partition members, said ledges opposing each other in pairs, whereby to support printers' trays, the free edge of the inner side portion of each of said side members having a rectangular offset portion, whereby to form a longitudinally extending shoulder, each of the side portions of each of said partitions having an angular offset portion at their free edge, whereby to form a longitudinally extending shoulder along each side of the edge of each partition, back plates each having a rectangular flange along each longitudinal edge thereof, said flanges being firmly secured against the shoulders of said partitions and side members.

1,338,102. SPINNING-SPINDLE. GEORGE HOWARD SHELDON, Westerly, R. I. Filed Sept. 5, 1919. Serial No. 321,994. 3 Claims. (Cl. 118—66.)



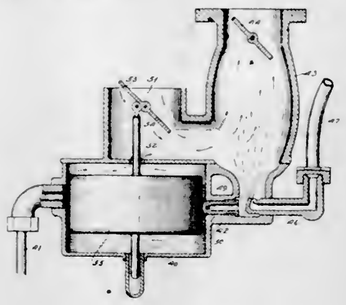
1. In the device of the kind described, spaced circular heads, a ball bearing race supported within each head, a substantially tubular guard member having its ends disposed within the circular heads, for holding the heads in spaced relation with each other, a whirl supported within the guard member, and means for connecting a spindle to the whirl whereby movement of the whirl produces a relative movement of the spindle.

1,338,103. ELECTRIC IRON-ORE-SMELTING FURNACE. JAMES D. SHIPTON, Vancouver, British Columbia, Canada. Filed Sept. 22, 1919. Serial No. 325,376. 6 Claims. (Cl. 204—64.)



4. An electrical iron smelting furnace, comprising a series of electrical smelting chambers disposed around a central mixing chamber, means for delivering ore separately to each smelting chamber, means for tapping the molten metal from each smelting chamber and for delivering it into the central mixing chamber, and means for tapping the central mixing chamber.

1,338,104. FUEL FEEDING AND MIXING DEVICE FOR GAS-ENGINES. WILFRED SHURTLEFF, Moline, Ill. Filed Mar. 16, 1917. Serial No. 155,305. 9 Claims. (Cl. 123—131.)

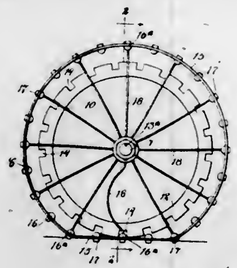


1. In a device of the class described, the combination of a fuel reservoir having a fuel inlet at its upper end adapted for connection with a fuel supply tank below the reservoir, a mixing chamber, a fuel outlet from said reservoir to the lower end of said mixing chamber, an opening connecting said mixing chamber with said reservoir above the level of fuel therein, an air intake passageway to the mixing chamber, means for causing the flow of fuel and air into and through said mixing chamber whereby to create suction effect in said air intake passageway and reservoir, and means controlled by the level of fuel in said reservoir for adjusting the area of said air intake passageway whereby to control of the suction effect in said reservoir and thereby to control the inflow of fuel and the level thereof in said reservoir.

1,338,105. TRACTOR-WHEEL. CONRAD A. SLOCUM, Haswell, Colo. Filed Jan. 30, 1919. Serial No. 274,002. 4 Claims. (Cl. 21—227.)

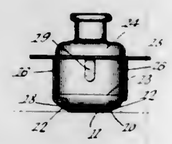
1. A tractor wheel comprising a rigid member of annular form provided externally with notches, a resilient rim encircling said rigid member, anchor bars carried by said resilient rim and fashioned to fit into said notches, the re-

siliency of said rim normally tending to keep said anchor bars out of said notches except when said rigid member is



forced toward a surface with which said resilient rim is in engagement.

1,338,106. BOTTLE-HOLDER. EDWIN RUTHVEN SMITH, Paris, Tex. Filed Nov. 11, 1919. Serial No. 337,241. 13 Claims. (Cl. 120—73.)



1. A bottle holder comprising a base portion, and a body portion adapted to receive a bottle therein, said body portion having a rounded bottom being provided with a guard near its top adapted to limit tilting of the bottle holder and the bottle therein.

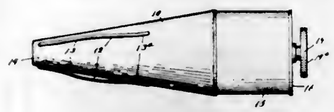
1,338,107. DISHCLOTH-HOLDER. JOHN H. SOEHREN, Seattle, Wash. Filed Mar. 21, 1919. Serial No. 284,188. 1 Claim. (Cl. 141—10.)



A cloth holder comprising a single piece of wire and having a substantially oblong loop or bight jaw-member the transverse end of which is bent down at a right angle to form a lip, the opposite end having its strands twisted together medially of the loop and spring eyes at the end of the twist; and independent arms tangent to the spring eyes and extending longitudinally of the loop, the arms bent down through the loop at the twist end, and having at the free ends hooks riding the lip.

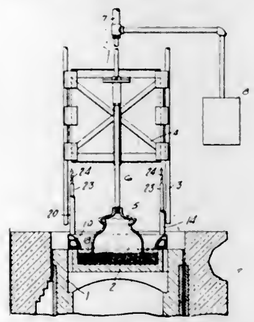
1,338,108. MUTE. FORTUNATO SORDILLO, Dorchester, Mass. Filed Nov. 14, 1919. Serial No. 338,000. 13 Claims. (Cl. 84—125.)

10. A mute having a tapered instrument-entering portion, and a cylindrical portion, said tapered portion having an opening in its apex communicating with the interior of the mute, said cylindrical portion having a solid end wall, a thin disk arranged within said cylindrical portion to occupy substantially the cross-section of said



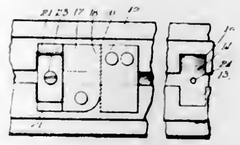
portion, and means to support said disk at its center clear of the sidewall of said portion for undamped vibration which admits of moving the disk axially within said cylindrical portion.

1,338,109. CUTTING-OFF DEVICE FOR GLASS-DRAWING APPARATUS. WILLIAM E. STANDLEY, Pittsburgh, Pa., assignor to Window Glass Rotary Pot Company, a Corporation of Pennsylvania. Filed Aug. 20, 1915, Serial No. 46,442. Renewed Mar. 13, 1920. Serial No. 365,625. 8 Claims. (Cl. 49—53.)



1. A cooling and cutting off device for glass cylinders, comprising an annular casting provided in its body with an annular gas conduit and a passage to receive a cooling medium to cool the glass that attaches to a drawing bait, said gas conduit being arranged to be attached to a gas supply and having a plurality of outlets for directing a series of gas jets against the periphery of the glass cylinder.

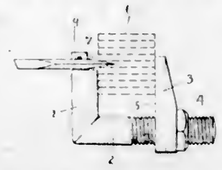
1,338,110. DEMOUNTABLE RIM. BERT A. STOCKING, Boone, Iowa. Filed May 18, 1917. Serial No. 169,383. 9 Claims. (Cl. 152—21.)



1. In a demountable rim, a block ring having portions adapted to lie over the inner surfaces of tire flanges, a split rim, said parts being adapted to grip a tire therebetween, toothed engaging members for holding said split rim together and a key piece for preventing said split rim from sliding with relation to the block ring.

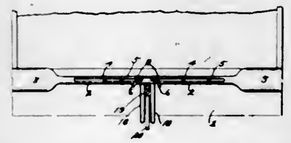
1,338,111. SPRING-LEAF SPREADER. HAMILTON HALL STRUVE, Cincinnati, Ohio. Filed Nov. 9, 1916. Serial No. 130,326. 2 Claims. (Cl. 81—3.)

1. A spring leaf spreader comprising an L-shaped bar having one end threaded, and the other end of a substantial length so as to act as one of two clamping members to engage the sides of a spring, another clamping member of greater length than the said clamping end, threaded to engage adjustably the threaded end of the L-



shaped bar, and a wedge element pivoted on the clamping end of the bar and adapted to move into position entirely out of contact with the side of a spring, engaged between said clamping members and into a position to enter between the leaves of such a spring.

1,338,112. DIRECTION-INDICATOR FOR VEHICLES. NIHEI SUZUKI, San Francisco, Calif. Filed Sept. 25, 1916, Serial No. 121,968. Renewed Mar. 8, 1920. Serial No. 364,324. 1 Claim. (Cl. 116—50.)



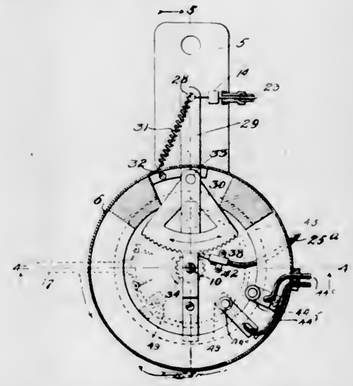
A direction indicator for vehicles comprising a continuous tubular guide member mounted transversely upon the vehicle and having its opposite open ends enlarged providing indicator receiving pockets communicating at their inner ends with the contracted tubular portion of said guide member, a pair of independent members slidably mounted one within the opposite ends of said tubular guide, an indicator carried by the outer end of each slidable member, said indicators adapted to lie within the respective pockets at the opposite ends of said guide when retracted and to project therefrom when extended, said members being capable of independent manual movement in either direction relative to the respective ends of said guide, said guide provided at each side of its center with an independent longitudinal slot, a central solid portion dividing the inner ends of said slots, an operating handle carried by the inner end of each of said members and extending one through each of said slots and one slidable longitudinally within each of said slots with the movement of the respective members, and a spring clip member secured to said casing adjacent the inner ends of said slots and extended at their free ends over the inner ends of said slots and adapted for yieldably engaging said handles when the members are manually moved to the inner ends of their respective slots for retaining said members in their retracted position.

1,338,113. FLYTRAP. FRED O. TIBBETTS, Henry, Ill. Filed Apr. 17, 1916. Serial No. 91,612. 1 Claim. (Cl. 43—22.)



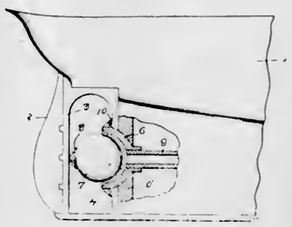
In a fly trap of the type set forth, a casing having front and rear and side walls the lower edges of each of which are inturned upwardly to provide substantially U-shaped channels which face upwardly, an insect directing member having its lower edges seated in the respective channels of the front, rear and side walls, said member having its top formed with an outlet for the insects, and a removable bait cup arranged centrally of the casing and having its sides spaced from the respective casing ends and extending across the same, said cup having its opposite ends turned downwardly to form hooks which latter are received in the respective channels of the front and rear walls of the casing and seat on the top edges of the front and rear walls of the casing so as to support the cup from said top edges of the front and rear walls of the casing.

1,338,114. SIGNAL FOR MOTOR-VEHICLES. PIETER HENDRIK WOLFAARDT, Jeppestown, Johannesburg, South Africa. Filed Mar. 29, 1919. Serial No. 286,056. 9 Claims. (Cl. 116—46.)



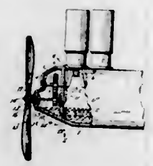
1. In an apparatus of the class described, the combination with a casing, of a rotatable head in said casing, a hand carried by said head, a manually controlled handle, a connection between said handle and head whereby when the handle is operated the head and hand will be turned, and locking means holding the head and hand in an adjusted position.

1,338,115. PROPULSION MEANS. DOMINIC A. TROTTA, New York, N. Y. Filed Sept. 4, 1919. Serial No. 321,580. 2 Claims. (Cl. 115—11.)



1. In a propelling means, the combination of a ship hull, a curvilinear combined mouth and socket member with exterior lugs fixed to the hull and having a semi-spherical interior and also having a forwardly extending central and interiorly threaded nipple, a conduit threaded into said nipple, a retainer fixed to the hull and concave at its forward side and having said side arranged in rear of and spaced from the combined mouth and socket member, and a mobile globular deflector disposed in the combined mouth and socket member and interposed between the same and the retainer and free to be turned about its center in all directions.

1,338,116. PROPELLER-GEARING FOR FLYING-MACHINES. ALVA E. ZUMWALT, Caney, Kans. Filed Oct. 4, 1919. Serial No. 328,342. 3 Claims. (Cl. 74—7.)

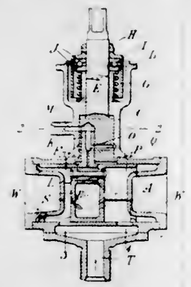


1. In a propeller gearing for flying machine engines, the combination with a crank case adapted to contain lubricant and provided with a partition dividing the crank case into dominant and auxiliary lubricant containing chambers, of a crank shaft mounted in bearings in the end of the crank case and said partition, a propeller shaft mounted in bearing in the partition and the end of the crank case, a propeller on said shaft, means on the propeller shaft to coöperate with the partition and the end wall of the crank case to prevent axial movement of the propeller shaft, and relatively different diameters of intermeshing gear connections between the crank and propeller shafts, whereby the crank shaft may rotate at a slow speed and the propeller shaft at a relatively higher or greater speed.

1,338,117. CEMENT. DAVID W. ADAMSON, Richfield, Utah. Filed July 25, 1919. Serial No. 313,366. 3 Claims. (Cl. 166—28.)

1. As a new article of manufacture, a cement comprising calcined and comminuted gypsum and calcined alunite ores.

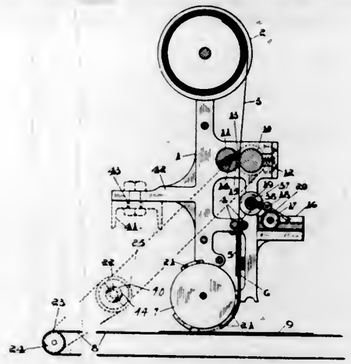
1,338,118. PUMP. JOHN COCKBAIN BRIGGS, Cumberland, England, assignor to Aero & General Pump Manufacturing Company, Limited. Filed July 1, 1919. Serial No. 307,983. 2 Claims. (Cl. 103—44.)



1. In a reciprocating pump, the combination with a plunger, of means for imparting a combined reciprocating and turning motion to the said plunger, said means consisting of a shaft extending at right angles to the path of reciprocation of the plunger, and a crank pin having one of its ends slidably mounted in one end of the shaft and its other end pivotally connected to the pump plunger.

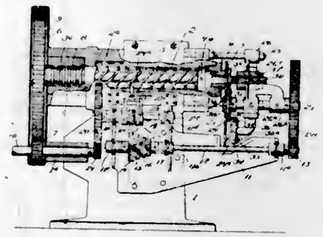
1,338,119. WINDOW-ENVELOP MACHINE. EDWARD EARNEST BROOKES, Toronto, Ontario, Canada, assignor to W. J. Gage & Company, Limited, Toronto, Canada. Filed July 29, 1919. Serial No. 314,229. 4 Claims. (Cl. 93—61.)

1. The combination with an envelop machine provided with a traveling carrier for envelops of a window attaching device secured to the machine and adjustable thereon transversely of the carrier; gearing between the



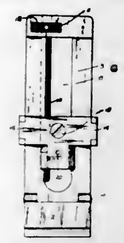
carrier and the window attaching device; and means included in said gearing for varying the timing of the attaching device relative to the carrier.

1,338,120. BLANK-FORMING MACHINE. JAMES WILLIAM BRUNDAGE, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 29, 1919. Serial No. 334,350. 7 Claims. (Cl. 18—12.)



1. A machine for forming blanks of vulcanizable material comprising a stationary die, means for progressively forcing the vulcanizable material through said die, a rotary die plate coacting with said die and having openings therethrough designed to register successively with said die and a closure member bearing against said plate opposed to said die and means for relieving the forcing means from excess pressure during the intervals when the die is closed by the die plate.

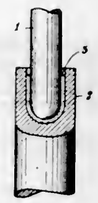
1,338,121. LEAF-SIGHT FOR FIREARMS. FRANK F. BURTON, Mount Carmel, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Nov. 1, 1919. Serial No. 335,017. 3 Claims. (Cl. 33—53.)



1. A leaf-sight for firearms, comprising a sight-base, a pivotal leaf, a vertically adjustable slide-body mounted thereupon and formed at its respective ends with positioning-notches, a series of differentiated sight-plates, each

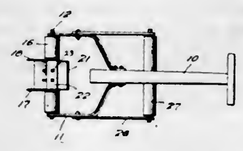
formed at its respective ends with positioning-flanges adapted to enter the said notches of the slide-body, and means for securing the sight-plates to the slide-body.

1,338,122. SHAFT-COUPLING. RAGNAR CARLSTEDT, Stockholm, Sweden. Filed Feb. 16, 1920. Serial No. 359,176. 1 Claim. (Cl. 64—106.)



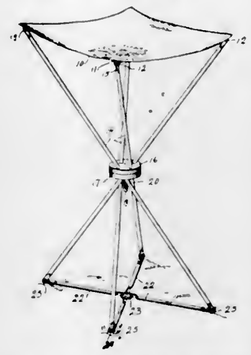
A shaft coupling including in combination, a pair of alining driving and driven shaft sections one end of one of which is rounded while the adjacent end of the other section is recessed to receive the rounded end, and a plastic body in the recess and interposed between said sections and having sufficient molecular friction to effect transmission of power from the driving to the driven shaft section.

1,338,123. LAWN-MOWER. CARMELO CONIGLIO, Port Arthur, Tex. Filed Dec. 5, 1919. Serial No. 342,692. 5 Claims. (Cl. 97—28.)



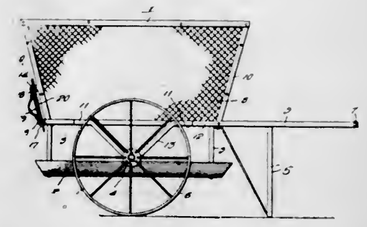
1. A machine of the class described comprising a handle, a yoke secured to one end thereof, an axle carried by the yoke, wheels loosely mounted upon the axle, spaced blades mounted upon the axle and disposed edgewise at an inclination to the ground, and a cutting blade secured to the axle between the spaced blades at a right angle to the latter, and at an inclination to said axle.

1,338,124. FOLDING CAMP-STOOL. HORACE G. DALE, Little Rock, Ark. Filed Aug. 14, 1918. Serial No. 249,880. 1 Claim. (Cl. 155—136.)



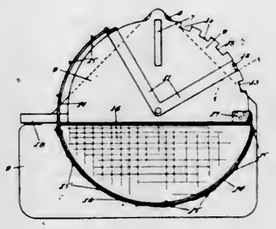
A camp stool of the character described having supporting means including an upper and a lower annulus having peripheral confronting flanges, an axial member attached to the inside face of the upper annulus and extending downward through the lower annulus and forming an axis therefor, said annuli having a plurality of elongated apertures adjacent their margins, a plurality of legs each passing through a pair of said apertures and formed with enlarged portions between the annuli whereby upon a rotation of one annulus relative to the other the legs will be turned into or out of parallel relation to each other, springs attached to the downwardly projecting, axial member below the lower annulus, said springs being wrapped around the axial member in the same direction and in parallel coils, and the springs being laterally bent to form two arms connected with diametrically opposite points of the lower annulus, and means limiting the divergence of the legs but permitting the legs to be folded into an approximately parallel position, said means, when the legs are in angular relation, impeding the inward movement of the legs toward each other and into parallel relation.

1,338,125. PORTABLE LEAF AND WASTE FURNACE. ASA DOLEN, Tarrytown, N. Y. Filed Nov. 25, 1916. Serial No. 133,511. 1 Claim. (Cl. 110—19.)



A trash burning device having foraminous body, an end wall of the body being provided with an opening in the lower portion thereof, opposed angle guide strips secured to the said wall above and below the opening therein, a gate for closing said opening and adapted to be carried within said opposed angle guide strips and including longitudinal upper and lower angle strips, and end strips secured to said angle strips for reinforcing the ends thereof, and pins extending through the opposite ends of the gate and contiguous portions of the strips and removable independently whereby the door or gate may be swung open in either direction or removed entirely from between the strips carried above and below the opening.

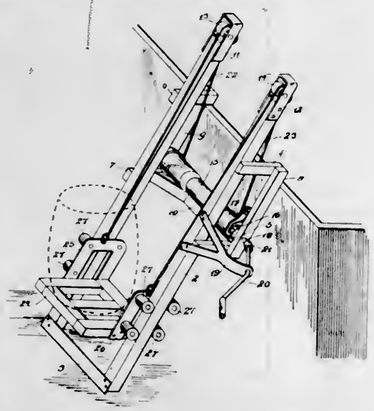
1,338,126. SACK-HOLDER. ERICK ERICKSON, Minneapolis, Minn. Filed Feb. 2, 1920. Serial No. 355,652. 2 Claims. (Cl. 83—26.)



1. A device of the class described consisting of a suitably supported standard, a shelf adjustably secured to said standard, said shelf having notches in a segmental

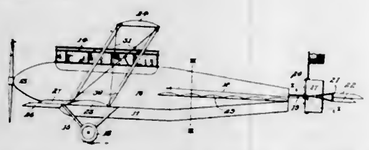
portion thereof, a bell crank lever pivotally mounted on said shelf, a flexible band having hooks thereon secured at one end to said shelf and secured at the other end to one end of said bell crank lever, a handle secured to the opposite end of said bell crank lever, said handle being adapted to engage said notches.

1,338,127. ELEVATOR. VANDERLYN HOWARD FELT, Kendall, N. Y., assignor of forty-nine one-hundredths to William A. Crandall, Kendall, N. Y. Filed Jan. 29, 1919. Serial No. 273,919. 1 Claim. (Cl. 187—10.)



In an elevator, the combination of a pair of runways, a platform adapted to travel between said runways, a rearwardly projecting bracket provided on said runways to hold said runways away from the wall, a winding drum mounted on said bracket behind said runways, a handle connected to said drum and supported angularly thereto on one side of said runways, a pulley carried on top of each of said runways, ropes connected to said platform and passing over said pulleys to said winding drum and guides on said platform to guide said platform on opposite sides of both of said runways.

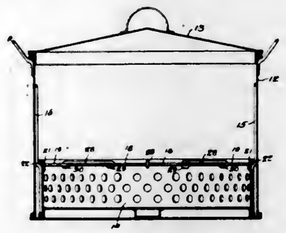
1,338,128. AEROPLANE. JULIUS FOX, Cleveland, Ohio. Filed July 21, 1919. Serial No. 312,143. 4 Claims. (Cl. 244—14.)



2. An aeroplane comprising a fuselage having a forwardly positioned propeller, an empennage formed of a substantially semicircular plate attached to the stern of the fuselage, a frame rearwardly projecting from the ends of the plate at the opposite sides of the craft, rearwardly projecting aerofoils carried by the frame having dished lower surfaces, and a vertical double rudder pivoted centrally to said plate within the frame.

1,338,129. CULINARY DEVICE. WINSLOW J. FRIES, CHARLES R. FRIES, and WILLIAM P. FRIES, Philadelphia, Pa. Filed June 8, 1918. Serial No. 238,815. 4 Claims. (Cl. 53—1.)

1. A culinary device of the character described including a container for jars, a jar spacer within said container and having an outer band including outwardly projecting loops; an inner ring; and links connecting portions of said band between said loops to the ring; said loops serving to provide frictional engagement with the inner portion of the container whereby the jar spacer is placed



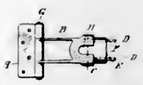
under tension and is thereby held firmly to the container; substantially as described.

1,338,130. STORAGE-BATTERY TERMINAL. CLARENCE W. HAZELETT, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Nov. 3, 1916. Serial No. 129,343. 8 Claims. (Cl. 173—259.)



2. In storage batteries, a threaded plate post, an adapter having a double conical sleeve member, a cable terminal having a screw threaded portion, said terminal having a tapered end adapted to be fitted into either opening of the double conical sleeve, means coöperating with the threaded portion of the cable terminal to fasten said terminal in either end of the sleeve, and a threaded portion secured to said sleeve member adapted to co-act with the threads of the post, the axis of said post intersecting the axis of the sleeve at its center, whereby the adapter is symmetrically arranged in respect to the post and can be rotated thereon within a circle of minimum radius.

1,338,131. LOCKING DEVICE. BENJAMIN LA FAYETTE HENDRICKS, Macon, Ga. Filed May 22, 1919. Serial No. 299,054. 2 Claims. (Cl. 70—128.)



1. A locking device for a swinging lever comprising a plate adapted to be supported independently of the lever, a hasp pivotally engaged with the plate and provided in its free end portion with an open slot to receive the lever when in one position, outstanding pins carried by the hasp at opposite sides of the slot, and a lock engageable with said pins and adapted to substantially contact with the lever when within the slot, the outer end of the hasp being provided with a recess in which seats a portion of the lock when in applied position.

1,338,132. MAGNET-STEEL. KOTARO HONDA, Yonega-Fukuro, Sendai, Japan, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan, a Corporation of Japan. Filed Oct. 22, 1917. Serial No. 197,837. 15 Claims. (Cl. 175—21.)

1. A method of preparing permanent magnets which comprises quenching a body of paramagnetic alloy steel containing cobalt at a temperature substantially above 800° C., and thereafter magnetizing the same.

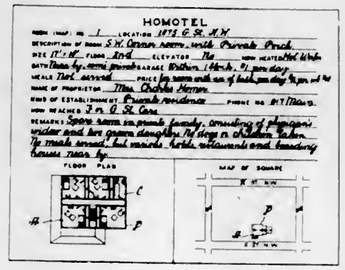
1,338,133. MAGNET-STEEL. KOTARO HONDA, Yonega-Fukuro, Sendai, Japan, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan, a Corporation of Japan. Filed Oct. 22, 1917. Serial No. 197,838. 3 Claims. (Cl. 175—21.)

1. The method of preparing permanent magnets which comprises quenching at a temperature substantially above 800° C., a body of an alloy steel containing cobalt and chromium, and thereafter magnetizing said body.

1,338,134. MAGNET-STEEL. KOTARO HONDA, Yonega-Fukuro, Sendai, Japan, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan, a Corporation of Japan. Filed Oct. 22, 1917. Serial No. 197,839. 6 Claims. (Cl. 175—21.)

1. The method of preparing permanent magnets which comprises quenching at a temperature substantially above 800° C. a body of an alloy steel containing cobalt and molybdenum, and thereafter magnetizing said body.

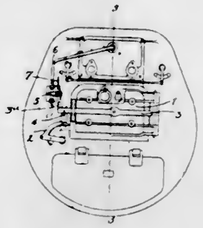
1,338,135. MEANS FOR ADVERTISING QUARTERS, LODGINGS, OR THE LIKE. MADGE M. HOLLOWAY, Montgomery, Ala. Filed Jan. 5, 1920. Serial No. 349,468. 4 Claims. (Cl. 283—56.)



1. Apparatus for advertising quarters, lodgings, or the like, comprising a series of stiff sheets each having on one face thereof visual representations of the house and room or rooms for rent, and on the other face of each sheet descriptive data of the location and characteristics of the house and quarters shown on the obverse face of said sheet, a series of cards bound together in pairs to form a book, with copying material interposed between the members of each pair, the two cards of each pair being provided with printed matter, and with a series of registering blank spaces adapted to be filled in at a single operation and to form with said printed matter duplicate records of the transaction of renting said property, the two cards having otherwise distinctive characteristics, and one of the corresponding members of each pair being made detachable from said book, to be handed to the renter, and the other to be retained as a record by the agent, substantially as described.

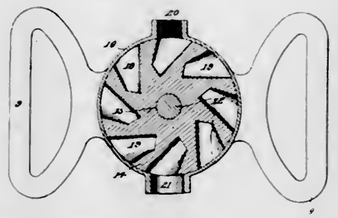
1,338,136. FURNACE. JAMES HOWDEN HUME, Glasgow, Scotland, assignor to James Howden & Company, Limited, Glasgow, Scotland, a Company Incorporated and Registered under laws of Great Britain and Ireland. Filed Dec. 1, 1917. Serial No. 204,819. 1 Claim. (Cl. 110—22.)

In a furnace, in combination with the furnace door, a pivoted latch member on the door, a catch to be engaged by said latch member, a fuel oil supply pipe for the furnace, a turning oil cock fitted to said pipe, a handle for turning said cock, and a depending extension connected to and movable with said cock and arranged to lock said



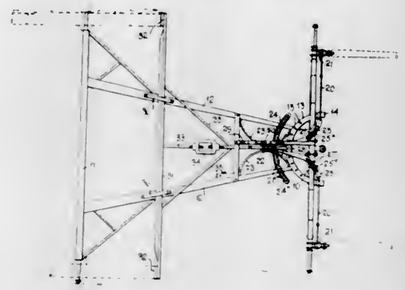
latch member in its catch when said cock is turned to open position.

1,338,137. AIR-DRILL. GEORGE JURESISIN, Wilkes-Barre, Pa. Filed Sept. 19, 1919. Serial No. 324,793. 8 Claims. (Cl. 253—2.)



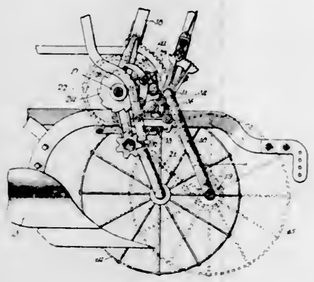
1. A device of the class described comprising a plate, handles carried thereby, a casing projecting from one face of said plate, a rotor within the casing, means for retaining the rotor in the casing, the casing having air inlet and outlet openings communicating with the rotor and a tool carried by said rotor.

1,338,138. HORSE-DETACHER AND VEHICLE-LOCK. OSCAR L. JYRKAS, New York Mills, Minn. Filed Aug. 11, 1917. Serial No. 185,755. Renewed Oct. 30, 1918. Serial No. 260,378. 8 Claims. (Cl. 21—75.)



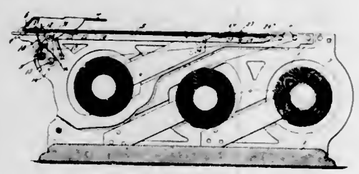
1. A vehicle comprising a body and a front axle pivotally mounted on the body for rotation in a horizontal plane relative to the body, shiftable means carried by the front axle for engaging draft devices, and means for shifting said engaging means out of operative position including an arcuate yoke extending concentrically to the pivotal axis of the front axle and mounted upon said body with which the shiftable engaging means has operative engagement in all positions of the axle relative to the body, and manually operable means for shifting said yoke to release said means for engaging the draft devices.

1,338,139. CLUTCH MECHANISM. LEE H. KAUPKE, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Original application filed Apr. 20, 1916, Serial No. 92,343. Divided and this application filed Dec. 24, 1918. Serial No. 268,160. 11 Claims. (Cl. 74—16.)



1. In a clutch, a driving member consisting of a constantly driven ratchet, a driven member consisting of an arm carrying a pawl, means for forcing said pawl out of engagement with said ratchet at a predetermined point in the rotation of said arm, means independent of said driving member for returning said arm, and an adjustable hand-lever adjacent said arm for engaging said arm on its return movement to thereby regulate the extent of such return movement.

1,338,140. MANIFOLDING-MACHINE. ALBERT KRAUTH, Hamilton, Ohio; Fritz G. Diesbach administrator of said Albert Krauth, deceased. Filed Oct. 30, 1915. Serial No. 58,900. Renewed Mar. 13, 1920. Serial No. 365,663. 13 Claims. (Cl. 281—11.)



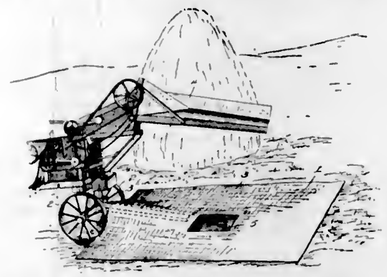
4. In a machine of the class described, a frame structure including a writing table over which a series of manifolding strips of paper are drawn, the paper provided with longitudinally spaced apertures, means located at opposite ends of the writing table adapted to engage the paper through registering apertures to arrest its progress and draw the intermediate portion of the paper tautly over the writing table, and means for releasing said means from its paper engagement.

1,338,141. COMPOSITION FOR CASTING MOLDS. JOHN LUCAS, Bridgeport, Conn. Filed July 16, 1919. Serial No. 311,271. 2 Claims. (Cl. 22—188.)

1. A composition for casting molds comprising the following ingredients in the proportion stated, to wit, asbestos 1%, graphite 25%, horse manure 2%, core said 17%, and fire clay 55%.

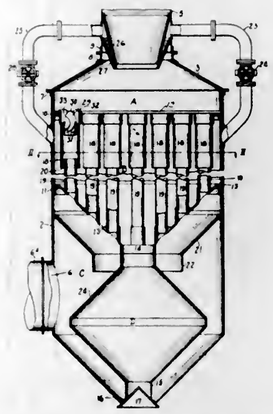
1,338,142. AUXILIARY FLOOR FOR THRESHING-MACHINES. GEORGE B. LUNDY, Niagara Falls South, Ontario, Canada. Filed July 30, 1918. Serial No. 247,448. 2 Claims. (Cl. 130—1.)

1. An auxiliary floor for threshing machines, comprising a sheet of flexible material adapted to be spread beneath the feeder to the thresher to catch the falling grain, said sheet having an opening therein, and an independent sheet of greater size than the opening arranged beneath



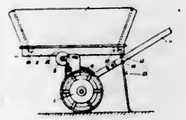
the first named sheet at the opening for receiving the grain from the larger sheet, said second sheet having means for forming the same into a receptacle.

1,338,143. METHOD OF AND APPARATUS FOR CLEANING GASES. FRANK R. MCGEE, Steubenville, Ohio. Filed May 13, 1918. Serial No. 234,290. 15 Claims. (Cl. 183—79.)



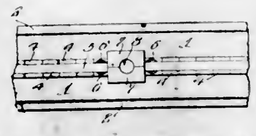
1. A gas cleaner comprising a gas distributing chamber, a gas collecting chamber and an impurity receiving chamber, a gas inlet on the distributing chamber, a gas impurity outlet on the collecting chamber, an outlet on the impurity receiving chamber, a series of conduits connecting the distributing chamber with the collecting chamber, said conduits having annular outlets opening into the impurity receiving chamber, and means in each conduit for imparting a whirling motion to the gases passed through said conduits.

1,338,144. IMPLEMENT FOR USE ON LAWNS. HERBERT MALCOLM MCNEILL, Wanganui, New Zealand. Filed Sept. 23, 1919. Serial No. 325,664. 5 Claims. (Cl. 56—249.)



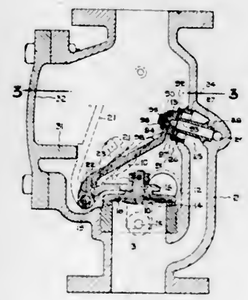
1. An implement for use on lawns, comprising a lawn mower; a barrow body secured against end movement on the roller thereof when same is uppermost; and a fitting for securing one end of said body to the mower handle against lateral movement and tipping and which also serves as a leg.

1,338,145. DEMOUNTABLE RIM. ARTHUR E. MCPHERSON, Beaumont, Tex., assignor to Joe Rosenthal, Beaumont, Tex. Filed Sept. 16, 1918. Serial No. 254,296. 1 Claim. (Cl. 152—21.)



A demountable rim formed of two annular sections having bead engaging flanges on their outer edges and intermeshed rectangular lugs on their inner edges, a pair of spaced parallel offset ribs on the inner side of each lug, the ribs of said lugs being alined and forming an annular channel when the sections are engaged, rectangular bosses on the inner sides of said annular sections and projecting beyond the inner sides of said ribs, said bosses abutting each other and being provided with notches forming a valve stem opening, and a split locking ring snugly received in the channel formed by said ribs with its ends contiguous to said bosses, the ribs adjacent to the ends of said ring being cut away on their inner edges to permit the easy removal of the ring.

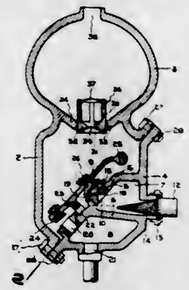
1,338,146. ALARM-ACTUATING APPARATUS. JOHN R. MEADOWCROFT, Montreal, Quebec, Canada. Filed Sept. 17, 1917. Serial No. 191,808. Renewed Oct. 13, 1919. Serial No. 330,525. 10 Claims. (Cl. 169—23.)



1. In an automatic fire alarm system the combination with a water passage having a bypass; of a main valve for controlling the water passage; an auxiliary valve for controlling the bypass and constructed and arranged to open independently of the main valve; the passage and bypass being adapted to receive water from the same supply under pressure, means whereby the main valve, when operating a predetermined extent automatically retains the auxiliary valve in its open position and means whereby the flow of water through the bypass operates the alarm.

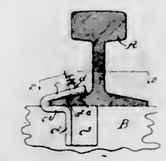
1,338,147. ALARM-ACTUATING APPARATUS. JOHN R. MEADOWCROFT, Montreal, Quebec, Canada. Filed Sept. 17, 1917, Serial No. 191,809. Renewed Oct. 13, 1919. Serial No. 330,526. 4 Claims. (Cl. 169—23.)

1. A retarding chamber for automatic fire extinguishing and alarm systems consisting of a casing having a detachable portion, said portion having inlet and discharge sub-chambers therein and inlet and discharge ports respectively communicating with the inlet and discharge sub-chambers, a lever fulcrumed between its ends between the said ports and coöperating alternating check



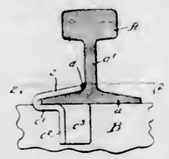
valves controlling said ports, said valves being carried by the opposite ends of said lever.

1,338,148. RAIL-ANCHOR. WILLIAM M. MITCHELL, Louisville, Ky. Filed Dec. 22, 1919. Serial No. 346,678. 4 Claims. (Cl. 238—321.)



1. A rail anchor comprising a jaw for engaging one of the base flanges of a rail, a set screw threaded through one of the jaw members and arranged to engage the face of the rail flange to hold the anchor in position thereon, and a depending abutment adapted to engage the side of the tie and coöperate therewith to rock the anchor in a vertical plane and thereby force said jaw into gripping engagement with the upper and lower faces of the rail flange.

1,338,149. RAIL-ANCHOR. WILLIAM M. MITCHELL, Louisville, Ky. Filed Dec. 22, 1919. Serial No. 346,679. 6 Claims. (Cl. 238—321.)

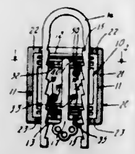


2. A one-piece rail anchor the upper portion whereof comprises a jaw to engage the base flange of a rail and the lower portion whereof comprises an abutment having angularly depending members, one of said members extending along and depending from the inner edge of the lower part of the jaw and the other of said members extending inwardly at right angles to said first mentioned member.

1,338,150. LOCK. RALPH A. NESMITH, Los Angeles, Calif., assignor of one-third to B. J. Bradner and one-third to A. B. Howard, Los Angeles, Calif. Filed Sept. 3, 1919. Serial No. 321,365. 8 Claims. (Cl. 70—108.)

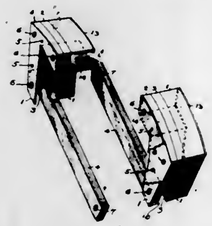
3. A lock comprising a casing carrying a locking mechanism, the casing comprising a cylindrical wall and

two end walls, a shackle in connection with the casing and adapted to be held by the locking mechanism, and a sleeve comprising a cylindrical wall adapted to fit over the cylindrical portion of the casing and inwardly extending



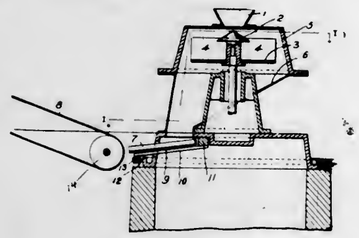
flanges at the ends of the cylindrical portion, the flanges being adapted to engage the ends of the casing, the casing and the sleeve being free to rotate relative to each other in a plane of rotation transverse to the plane of the shackle.

1,338,151. DETACHABLE MAGNETO - ARMATURE HEADS AND CORE. RICHARD A. OGLESBY, South Bend, Ind., assignor to Quick Action Ignition Company, South Bend, Ind., a Corporation of Indiana. Filed Mar. 19, 1917. Serial No. 155,918. 3 Claims. (Cl. 171—209.)



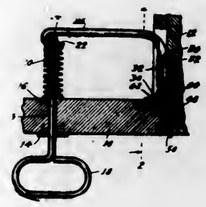
1. In armature structures laminated core and head members having enlargements with curved outer surfaces at one end, as a group to constitute a half-unit, duplicate laminæ differently assembled forming a separate half-unit, an independently formed magnet coil having an opening therethrough and adapted to receive the core part of each group of laminæ, and means for holding the groups in engagement with each other so that the curvature of one will be concentric with that of the other, the center of such curves lying entirely without the assembled parts.

1,338,152. MACHINERY FOR REMOVING SUPERFLUOUS SPELTER FROM GALVANIZED ARTICLES. DAN O'NEIL, JOHN A. HOLMQUIST, and JOHN W. FREE, Woodlawn, Pa., assignors to Jones & Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1919. Serial No. 347,861. 4 Claims. (Cl. 91—59.3.)



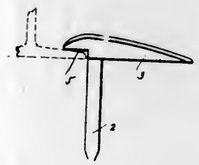
3. A separator for articles of magnetic material integrated with another material, consisting of means for disintegrating the material, a jig-chute adapted to receive the material from the disintegrating means, and a magnetic conveyer arranged at an interval from the delivery edge of said chute, substantially as described.

1,338,153. LATCH. HALL J. PETERSON, Isanti, Minn. Filed May 16, 1919. Serial No. 297,657. 3 Claims. (Cl. 292—127.)



2. A latch comprising a handle member adapted to be slidably mounted in a door, said member having a handle portion at one end, a coiled spring mounted upon said member toward the other end thereof, a rod connected to said member for operation thereby, said rod consisting of a portion loosely attached at one end to said handle member, a portion extending at right angles from the other end of said last-mentioned portion, a pivotal portion extending at right angles from said second-mentioned portion, and a portion extending at right angles from said pivotal portion, said last-mentioned portion having a latch-engaging shoulder, and a bearing member secured to the door for pivotally holding said pivotal portion, the latch-engaging shoulder being normally held in operative position by the aforementioned spring.

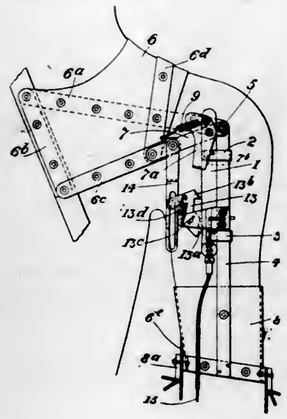
1,338,154. RAILROAD - SPIKE. FRANK R. PIPKIN, Greenfield, Ark. Filed Oct. 6, 1919. Serial No. 328,839. 1 Claim. (Cl. 85—28.)



In a railroad spike, a shank having a relatively long and substantially triangular plate the narrow end portion of which is secured to the top of the shank and which is substantially three times as wide as the shank, the broad end of the plate being substantially twice as wide as its narrow end, and said plate having a flat underside of relatively large area which bears on the tie when the shank is driven into it.

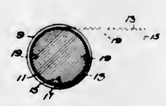
1,338,155. OPERATING MECHANISM FOR ARTIFICIAL HANDS. ALEXANDER PRINGLE and THOMAS SINCLAIR KIRK, Belfast, Ireland. Filed Mar. 28, 1918. Serial No. 225,147. 8 Claims. (Cl. 3—12.)

1. Operating mechanism for artificial hands having means for bending the fingers of the hand, comprising ratcheting mechanism operating in conjunction with the fingers, means in connection with the ratcheting mechanism for effecting a plurality of movements of same, means whereby the cumulative effect of the plurality of



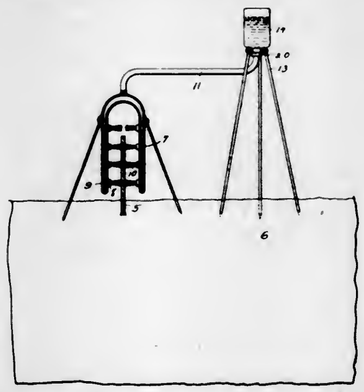
movements is transmitted to the hand to close same, and means for releasing the hand.

1,338,156. SHAVING-STICK HOLDER. HARRY J. PURPLE, Newton, Mass., assignor to United Drug Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1919. Serial No. 286,358. 7 Claims. (Cl. 206—56.)



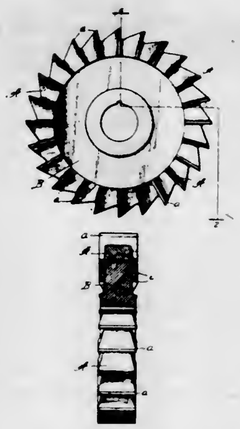
1. A shaving stick having a grip attached to one end thereof and comprising a base having an upstanding flange portion extending partly around the same and receiving one side of the stick, said portion being prolonged as a bendable strip which when bent forms in coöperation with said flange portion a ring gripping the end of the stick.

1,338,157. SAW CLEANING AND OILING DEVICE. JOHNNY RAINS, Boaz, Ala. Filed Sept. 11, 1919. Serial No. 323,157. 1 Claim. (Cl. 143—158.)



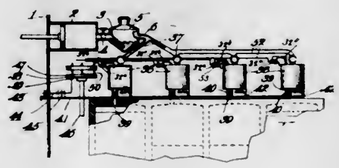
A device of the character described comprising a yoke of inverted U shape and of tubular material having a plurality of inwardly spacing openings upon each leg thereof, oil distributing brushes projecting toward each other from said openings, a source of oil supply, a connection between the source of oil supply and the top of the yoke and supporting elements connected to the yoke and pointed for engagement with a log, said elements serving to maintain the yoke in position to straddle a saw with the brushes contacting with the opposite sides of the saw during the time that the log upon which the device is supported is being sawed.

1,338,158. MILLING-CUTTER. JOSEPH R. RICHER and JOHN O. HESSLER, Chicago, Ill. Filed Apr. 17, 1919. Serial No. 290,858. 1 Claim. (Cl. 29—103.)



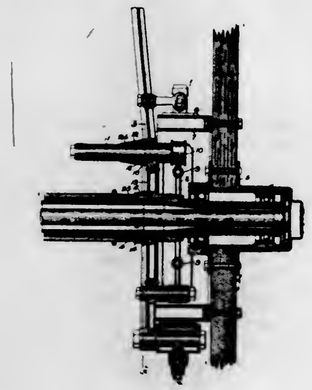
A milling cutter comprising a rim made of hard high grade steel, the inner circumference of which is slightly beveled, and a metallic body the outer circumference of which is correspondingly beveled and is slightly greater in diameter, and which is adapted to be pressed laterally into and immovably clamped within said rim by the relative expansion and contraction of the body and rim.

1,338,159. EXPLOSIVE-ENGINE STARTER. LOUIS N. RIES, Kansas City, Mo. Filed Mar. 31, 1917. Serial No. 159,018. 3 Claims. (Cl. 60—16.)



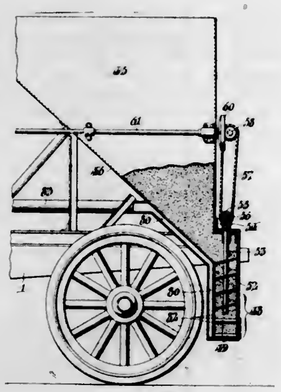
1. The combination with an internal combustion engine, of an auxiliary cylinder connected to a cylinder of the engine, a check valve between the auxiliary cylinder and the cylinder of the engine adapted for opening to pressure from the former and closing under pressure from the engine cylinder, means for charging the auxiliary cylinder with an explosive mixture, a check valve between said means and the auxiliary cylinder to open under pressure from the former and close under pressure from the latter, a spark plug in said auxiliary cylinder, a normally open exhaust valve for the auxiliary cylinder, and means for effecting the closure of said valve and the making and breaking of an electric circuit through said spark plug.

1,338,160. OILING DEVICE. DELMAR G. ROOS, Bridgeport, Conn., assignor to The Locomobile Company of America, Bridgeport, Conn., a Corporation of West Virginia. Filed Apr. 13, 1918. Serial No. 228,313. 7 Claims. (Cl. 64—24.)



1. The combination of an axle, a support having a bearing in which said axle turns, brake mechanism including a shaft and a bearing in which said shaft is mounted, and common means for lubricating both of said bearings.

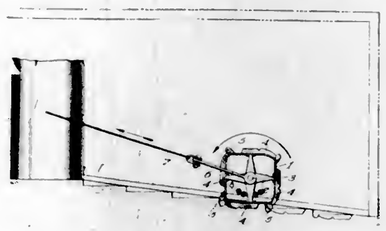
1,338,161. STONE-SPREADER. WILLIAM M. SCOTT, Philadelphia, Pa. Filed May 3, 1917. Serial No. 166,073. 6 Claims. (Cl. 275—2.)



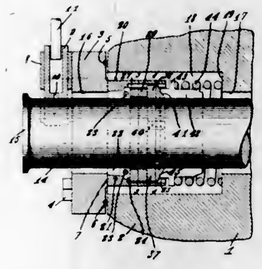
3. A stone-spreader comprising a stone bin, a transverse spreading compartment communicating with the bin, wherein the stone descends in a state of distribution and separation, and a pneumatic suction cleaning device communicating with said spreading compartment so as to act on the divided and separated stone descending therein.

1,338,162. MECHANICAL MOLDING DEVICE. BURTON A. SHUTTS and JOHN O. GOODWIN, Holt, Ala. Filed Aug. 18, 1919. Serial No. 318,094. 3 Claims. (Cl. 22—22.)

1. A mechanical molding device for use in casting pig iron, comprising in combination a supporting polygonal and weighted frame adapted to be drawn and rolled directly upon and over a sand floor and having faces of suitable conformation and dimension, with pig and sow molding patterns secured to said faces, whereby the molds in a sloping sand floor may be formed at their proper levels by rolling the device upon and over a suitably prepared floor.

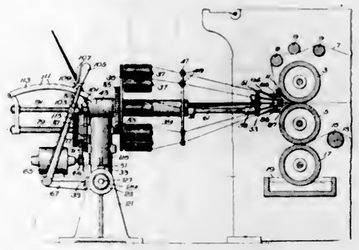


1,338,163. ROD-PACKING. THOMAS SMITH, Meadville, Pa. Filed Aug. 28, 1917. Serial No. 188,632. 1 Claim. (Cl. 286—20.)



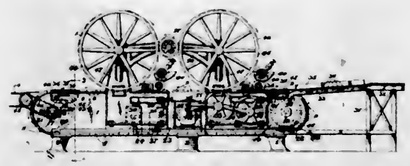
In a device of the class described, a stuffing-box; a gland constituting a closure therefor; a cup abutting against the gland; a segmental forward ring in the cup; a segmental rear ring in the cup and having an inwardly and rearwardly beveled end face; a retaining ring having a beveled face coöperating with the beveled face of the rear ring to prevent the latter from expanding outwardly against the cup; spring means for advancing the retaining ring; interengaging elements on the cup and the segmental rings coacting to render the forward ring responsive to thrust and radial movement, only, derived from the gear ring; and a rod working in the rings.

1,338,164. MACHINE FOR REINFORCING PAPER AND OTHER MATERIAL. EDWARD H. ANGIER, Framingham, Mass. Filed Dec. 29, 1916. Serial No. 139,484. 28 Claims. (Cl. 154—1.)



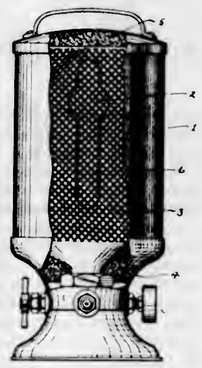
1. The combination with a creel for receiving spools of thread, of an endless carrier having eyes for guiding the thread from said spools and movable through an oblate, substantially elliptical path, and means to rotate said creel and carrier to lay the threads transversely of a strip of paper or other material.

1,338,165. PRINTING-MACHINE. WILLIAM M. BACON, Chicago, Ill., assignor to Enameled Steel Sign Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1918. Serial No. 228,368. 21 Claims. (Cl. 101—212.)



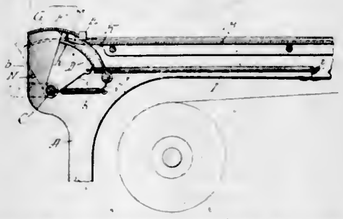
2. In a printing machine, a frame, a transverse shaft at the front of the frame and at the rear thereof, a pair of sprocket wheels on each of said shafts disposed adjacent to the sides of the frame, flexible sprocket chains mounted over the longitudinal pairs of sprocket wheels, a driving shaft disposed longitudinally in the frame, gear connections between one of said first-named shafts and said longitudinal shaft, a prime mover, driving connections between said longitudinal shaft and said prime mover, a bed for supporting the work, a form cylinder mounted above said bed, and driving connections between the driven transverse shaft and the form cylinder.

1,338,166. FIRE-EXTINGUISHER. FREDERICK C. BARGAR, Columbus, Ohio, assignor to Nu-Ex Fire Appliance Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 6, 1916. Serial No. 129,682. 5 Claims. (Cl. 169—31.)



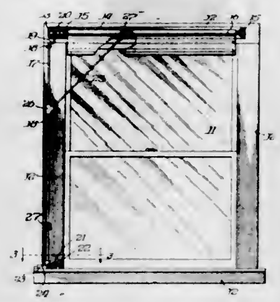
1. In a fire extinguisher, a substantially transparent container adapted to hold an extinguishing chemical and an expelling pressure fluid, a shell surrounding said container, said shell being provided with a sight opening to disclose the liquid level, and a foraminated packing located between said shell and container and extending over said sight opening.

1,338,167. AUTOGRAPHIC REGISTER. ENGLAND J. BARKER, Chicago, Ill. Filed Oct. 11, 1917. Serial No. 195,889. 5 Claims. (Cl. 281—11.)



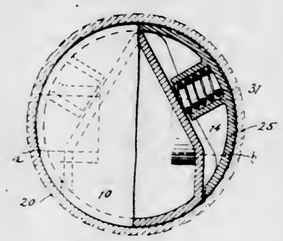
1. An autographic register comprising an upper and a lower transverse element at the discharge end of the same, said elements being spaced apart and said space constituting a passage through which paper strips having perforations therein may be withdrawn, the lower element being rigid and movable in a fixed arc of a circle and having means also rigid for engaging said perforations when said strips are withdrawn.

1,338,168. WINDOW-SHADE MOUNTING. LOUISE HENRIETTA BOCH, New York, N. Y. Filed Oct. 10, 1919. Serial No. 329,782. 10 Claims. (Cl. 156—19.)



10. In a device of the character described, a shade mount comprising a wooden bar adapted to be hinged at one end to the window frame above and at one side of the window opening and to serve for the attachment thereto of a plurality of sets of window shade and drapery brackets, a rod journaled in a vertical position at the side of the window opening and having its upper end deflected and attached to the hinged end of the mount at a point inwardly of the hinge, and means for axially turning the rod and for securing the rod and mount in adjusted position.

1,338,169. ENGINE-PISTON. ALANSON P. BRUSH, Detroit, Mich. Filed Mar. 1, 1919. Serial No. 280,124. 3 Claims. (Cl. 74—108.)

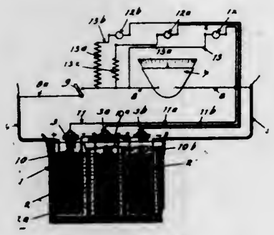


1. The combination of a piston body having a cylinder fitting portion and a nonfitting portion, and having a circumferentially extended packing groove which goes entirely across the nonfitting portion and extends at both ends into the fitting portion of said piston body, a resilient expansible packing crescent which is fitted in said groove, and means yieldingly thrusting the piston and the packing crescent apart so that they will contact with the walls of a cylinder in which the parts are placed.

1,338,170. BATTERY-INDICATOR. WILLIAM C. CARLON, Stockton, Calif. Filed July 28, 1917. Serial No. 183,351. 2 Claims. (Cl. 177—339.)

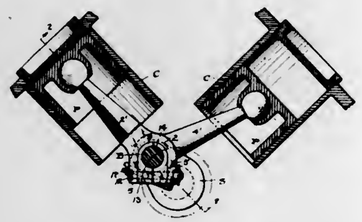
2. The combination with a plurality of storage battery cells connected in series, and a conductor leading from the positive pole of one of the end cells; of an auxiliary electrode in each cell adapted to contact with the electrolyte therein when the same is at its normal level, a lamp for each cell, a wire from each lamp to the conductor, another

wire to the corresponding auxiliary electrode, the lamp circuits being normally closed when the electrolyte in the



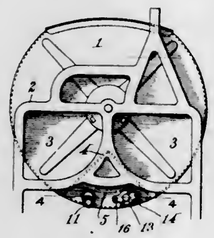
cells is at its desired level, and a common switch interposed in the conductor between the first lamp wire and the cell to break the circuit therethrough at will.

1,338,171. TOGGLE CONNECTION. JOHN J. CASSIDY, Cleveland, Ohio. Filed Nov. 21, 1918. Serial No. 263,482. 3 Claims. (Cl. 74—17.)



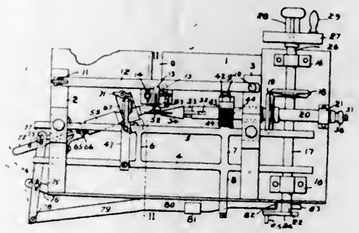
1. A toggle connection for cranks comprising a set of oppositely projected piston rods having each a ball at one end and an open yoke at the other end, said yokes having rounded bearings in their base and flat sides projecting from said bearings at an inclination to the axis of the rod and provided with transverse bolt holes in their outer portions, and separate bearing members bolted between the sides of said rods.

1,338,172. MEANS FOR DRAINING THE OSCILLATING CYLINDERS OF WASHING-MACHINES. JAMES L. COFFIELD, Dayton, Ohio. Filed May 29, 1919. Serial No. 300,781. 1 Claim. (Cl. 68—18.)



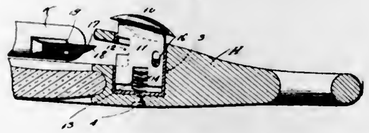
The combination with an oscillating clothes receptacle divided longitudinally on the interior by a raised portion, a passageway connecting the divided sides of said clothes receptacle, a chamber having a drainage outlet and a drainage inlet, and a valve located in an end of said receptacle and controlling the drainage inlet to said chamber from the passageway connecting the divided sides of said receptacle.

1,338,173. COMBINED SAW SETTING AND SHARPENING MACHINE. JACOB COLLEY, Pittsburgh, Pa. Filed Oct. 3, 1918. Serial No. 256,636. 3 Claims. (Cl. 76—35.)



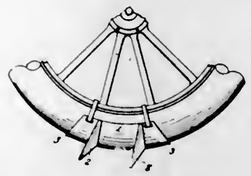
1. A machine for the purpose set forth comprising a spring pressed reciprocatory sharpening element, a saw feeding element, means carried by the feeding element for shifting the sharpening element clear of the saw during the movement of the sharpening element in one direction and a common operating means for said elements.

1,338,174. EYEGLASSES. DOMENICO CONTENTO, New York, N. Y. Filed Jan. 2, 1920. Serial No. 348,791. 1 Claim. (Cl. 88—44.)



A folding eyeglass frame including a keeper on one lens bow having a notch in one edge and a tapered tip; combined with a handle on the other bow provided with a recess, a box-like casing having a notch across one edge and open at its outer end, a screw through the handle into the bottom of said casing, a bolt slidably mounted in the casing and having a notch across one edge adapted to aline with that mentioned and a longitudinal slot in its body and a cavity in its lower end, its outer end projecting beyond the casing and having a knob, an expansive spring within said cavity resting on the bottom of the casing, and a pin across the casing through said slot, for the purpose set forth.

1,338,175. TREAD ATTACHMENT FOR TIRES. WILLIAM C. CRANSTON, Philadelphia, Pa., assignor of one-half to Carl Nagel, Philadelphia, Pa. Filed Apr. 8, 1919. Serial No. 288,549. 1 Claim. (Cl. 152—14.)



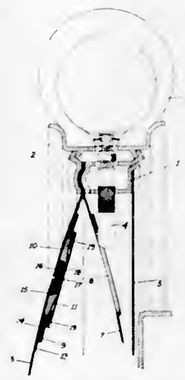
A tread attachment for tires comprising an arcuate channeled body member, and a tooth integral with said member and having a flat working side disposed at an acute angle to the radius thereof and a flat opposite side that approaches the working side as the sides recede from the body member and also having arms at the opposite sides of the body member; the last-named side of the tooth and the corresponding sides of the arms forming obtuse angles, and the opposite sides of the arms being adapted to assist the working side of the tooth in its function.

1,338,176. EXTENSIBLE RULE, &c. GUSTAF L. FINSTROM, Chicago, Ill. Filed Aug. 13, 1917. Serial No. 185,871. 2 Claims. (Cl. 33—161.)



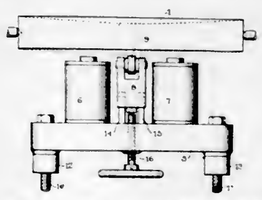
1. The combination with a case having an opening thereinto, which casing forms part of a rule, of a series of bars normally stacked upon each other within said case, joints between adjacent bars which connect them for movement of each bar longitudinally relative to the other bars, and interlocking means between one end of one bar and the other end of the other bar of each two adjacent sections for preventing relative movement.

1,338,177. AIR-VALVE HAND-HOLE PLATE FOR DISK WHEELS. LOUIS B. HARVEY, Buffalo, N. Y. Filed Mar. 29, 1919. Serial No. 286,133. 6 Claims. (Cl. 21—69.)



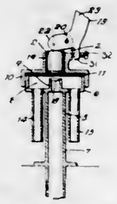
1. In combination with a disk wheel carrying a pneumatic tire having the air valve thereof projecting adjacent the disk, the disk being provided with a hand hole adjacent the air air valve, a removable hand plate over the hand hole, a spring bar on the inner face of the plate, means secured to the bar centrally thereof and projecting through the plate whereby the same may be turned from the outside of the plate, V-shaped lugs on the bar projecting toward the plate, and a flange on the inner face of the disk surrounding the orifice provided with diametrical V-shaped notches adapted to receive the lugs on the bar therein, the orifice being substantially oval, the notches in the surrounding flange being at the minor axis thereof and the spring bar being adapted to pass through the orifice at its point of greatest diameter and to bear on the flange when such bar is turned.

1,338,178. METHOD AND MEANS FOR SHAPING ROLLS AND THE LIKE. CLARK T. HENDERSON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 6, 1914. Serial No. 849,302. 8 Claims. (Cl. 51—4.)



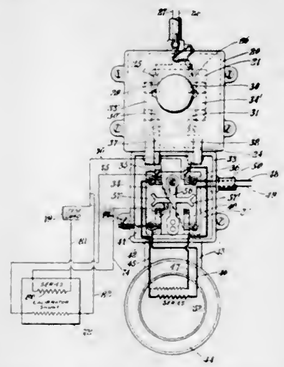
4. In combination, means including two spaced parts for rotatably supporting a body to be worked, and means to effect axial distortion of such body between such points and to hold such body for rotation about its distorted axis.

1,338,179. BALL-COCK. ARTHUR HOHMEISTER, Cincinnati, Ohio, assignor to The John Douglas Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 23, 1917. Serial No. 203,498. 1 Claim. (Cl. 137—104.)



A ball cock comprising a shallow distribution chamber having in its bottom an admission port and discharge ports, a concave valve seat surrounding the admission port, a flexible diaphragm forming the top of the distribution chamber, a cap covering the distribution chamber and having a guide collar in alinement with the valve seat, a plunger in the guide collar and having a convex face, a lever adapted to reciprocate the plunger and a float attached to the lever.

1,338,180. SERVICE AND METER-TEST SYSTEM AND ASSOCIATED APPARATUS. BRYSON D. HORTON, Detroit, Mich. Continuation in part of applications Serial No. 762,773, filed Apr. 22, 1913, and Serial No. 879,481, filed Dec. 29, 1914. This application filed Mar. 28, 1919. Serial No. 285,856. 54 Claims. (Cl. 175—183.)



1. In a device of the character described, in combination, a service switch, a protective inclosure therefor having a cover, means located exterior of said inclosure for operating said switch, a load circuit in electrical connection with said switch, a meter adapted to measure the power delivered to said load circuit, and meter testing means independent of said service switch for calibrating said meter and accessible only upon the opening of said cover.

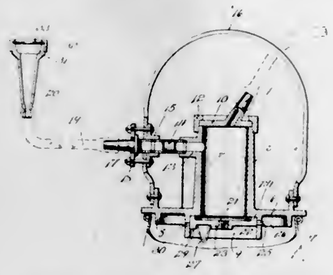
1,338,181. IDENTIFICATION DEVICE. GEORGE KALKBRENNER, Marion, Ohio. Filed May 15, 1919. Serial No. 297,319. 1 Claim. (Cl. 40—10.)



An identifying attachment for key rings comprising a substantially inclosed body having a pocket formed there-

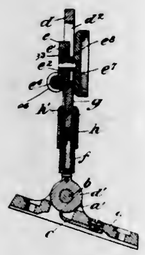
in, an identifying card capable of being positioned within said pocket, said body being open at one end to permit of the longitudinal insertion of said card into the pocket, and the walls of said body contiguous to the open end of the latter being apertured for the reception of a key ring, whereby when the attachment is carried by the key ring, the open end of said pocket will be closed by said ring to effect the retention of said card therein.

1,338,182. MILKING APPARATUS. MATTHEW LAMMERS, Sheboygan Falls, Wis. Filed May 20, 1919. Serial No. 298,501. 3 Claims. (Cl. 31—98.)



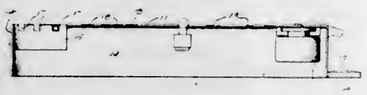
1. In a milking apparatus, a milker head including a chamber open at one end, a bar detachably mounted transversely of the open end of the chamber in spaced relation thereto, a valve plate movable between the bar and the end of the chamber, said bar being provided with a recess, and a pintle on the central portion of the valve plate engageable in said recess to prevent lateral movement of the valve plate.

1,338,183. RIFLE-SIGHT. GEORGE S. LEWIS, Springfield, Mass., assignor to J. Stevens Arms Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 17, 1919. Serial No. 297,855. 2 Claims. (Cl. 33—55.)



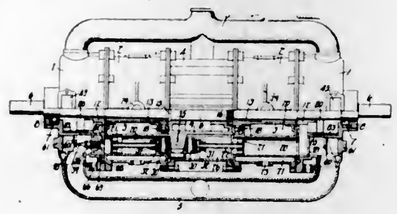
1. In a rifle sight, the combination of a supporting member, a movable, apertured member mounted slidably upon the supporting member, a hollow screw secured to one of said members, a screw adapted to enter the hollow screw and secured to the other member, said screws being reversely threaded, and a sleeve nut engaging both of said screws.

1,338,184. COMBINATION RUBBER-STAMP AND PEN RACK. LEONARD B. LINDQUIST, Maida, N. D. Filed Oct. 4, 1919. Serial No. 328,532. 1 Claim. (Cl. 211—43.)



A rack of the character described, angular in cross section to provide a vertical web and a horizontal web and having vertical ends extending downward from the horizontal web and at right angles to the vertical web, and the horizontal web having inwardly extending slots from the free edge of the web adapted to receive the handles of rubber stamps.

1,338,185. INTERNAL-COMBUSTION ENGINE. WILLIAM E. LOONEY, Detroit, Mich. Filed Mar. 13, 1916. Serial No. 83,737. 4 Claims. (Cl. 123—58.)



1. An internal combustion engine comprising a rotatable engine shaft, a wave-like cam rigid and co-axial therewith, a pair of fixed opposed engine cylinders arranged parallel with the engine shaft, said cylinders forming combustion chambers, pistons for the cylinders, means joining the pistons, said means including a cross-head, anti-friction members carried by the cross-head and engaging opposite faces of the cam, a casing inclosing the cam and associated parts, said casing including a groove therein parallel to the engine shaft and closed to the exterior of the casing, in which the cross-head slides.

1,338,186. DEVICE FOR PREVENTING LEAKAGE AROUND THE VALVE-STEMS OF INTERNAL-COMBUSTION ENGINES. JOSEPH F. MCGROTHER and JAMES L. DEEN, Philadelphia, Pa. Filed Mar. 11, 1918. Serial No. 221,694. 2 Claims. (Cl. 251—134.)



2. An engine valve structure comprising a valve seat having a tubular bearing, a valve to engage the valve seat, a stem for the valve passing through the tubular bearing, a gland slidable upon the stem and provided at one end with a cup-shaped portion, said gland being exteriorly threaded, packing arranged within said cup-shaped portion and engaging the tubular bearing, a stuffing box slidable upon the stem and receiving in one end thereof the end of the gland and having screw-threaded engagement therewith, packing arranged within the stuffing box, and means to hold the gland and stuffing box against displacement.

1,338,187. GARMENT. WALTER J. MAINTHOW, New York, N. Y. Filed May 5, 1919. Serial No. 294,855. 4 Claims. (Cl. 2—118.)

1. In a garment, a convertible collar arranged to be folded forwardly upon itself along a line transverse to

the length of the collar to divide its outer edges into two sections in registry with each other and coöperating





fastening devices whereby said two sections are detachably connected at said outer edges to form a hood.

1,338,188. SQUARE AND MITER ATTACHMENT FOR SAWS. MICHAEL MENDEL, Middle Village, N. Y. Filed Mar. 14, 1919. Serial No. 282,607. 4 Claims. (Cl. 7—13.)



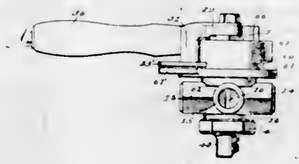
1. The combination with a saw blade having an aperture therein, of a pair of bars disposed on opposite sides of the blade and having inwardly facing recesses, a bushing fixed in the said aperture and having its ends inclosed by the said recesses, and a pintle having an enlarged central portion passing freely through said bushing and of slightly greater length than the latter, said pintle having diminished ends to which the said bars are riveted, and means whereby said bars may be held in different angular positions upon the saw blade.

1,338,189. TIE-PRESSER. WALTER B. MUNT, Philadelphia, Pa. Filed Mar. 15, 1919. Serial No. 282,807. 3 Claims. (Cl. 223—19.)



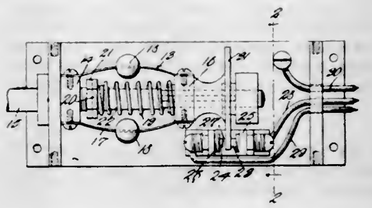
1. A tie-presser comprising oppositely positioned channel members, means to retain said members in unitary relation, and an absorbent member positioned between and within said members.

1,338,190. VALVE FOR AIR-BRAKES. CARL A. NELSON, Moline, Ill. Filed Feb. 21, 1919. Serial No. 278,545. 1 Claim. (Cl. 251—101.)



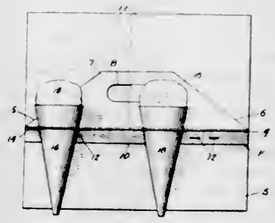
In a device of the class described, a casing provided with ports, pipe connections oppositely located and communicating with certain of the ports, an additional pipe connection communicating with the remaining port, a valve member within the casing, a tubular member having an opening receiving the upper end of the casing, said member having a boss thereon cut away to accommodate the pipe connections, stops on said tubular member, a handle operating between the stops and connected with the valve member, securing means for the tubular member, the cut away portions determining the position of the stops with reference to the ports of the casing and the position of the valve port when either of the stops is engaged.

1,338,191. SPEED-CONTROLLER. FRANK A. PEQUEGNAT and CHARLES C. KNOLL, Riverside, Calif. Filed Sept. 20, 1916. Serial No. 121,290. 1 Claim. (Cl. 200—80.)



A circuit closing device, embodying a shaft, a pair of collars thereon, one fixed and the other slidable longitudinally, springs having their ends secured to said collars, weights carried by said springs between their ends, a contact disk carried by the movable collar, said springs being normally bowed, adjustable means on the shaft between the collars, and an expansion spring between and held under desired compression by said adjustable means and movable collar for urging said collar away from the fixed collar and tending to straighten out the bowed springs.

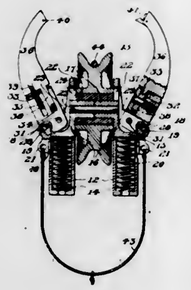
1,338,192. ICE-CREAM-CONE HOLDER. OTTO J. ROTH, Richmond Hill, N. Y. Filed July 23, 1919. Serial No. 312,714. 1 Claim. (Cl. 224—48.)



A device of the class described comprising a central body portion, strips secured to the opposite sides of said body

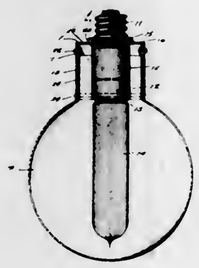
portion and provided with foldable parts which are adapted to extend at right angles thereto and are provided with means for supporting a plurality of ice cream cones, and flexible sheets secured to the central body portion and adapted to be passed outwardly and over the top portions of the cones when so supported.

1,338,193. TROLLEY-HEAD. LOUIS SABO, Beaver Falls, Pa. Filed Sept. 7, 1917. Serial No. 190,176. 14 Claims. (Cl. 191—83.)



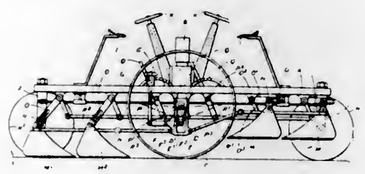
12. A device of the class described including a head, a pair of guard arms pivoted thereto for lateral movement toward and from each other, yieldable means to normally maintain said guard arms with their free ends in substantially abutting relation, and a trolley wire actuated latching means for the free ends of the guard arms.

1,338,194. LAMP. ARTHUR SALZER, New York, N. Y. Filed May 20, 1918. Serial No. 235,560. Renewed Oct. 24, 1919. Serial No. 333,109. 1 Claim. (Cl. 240—111.)



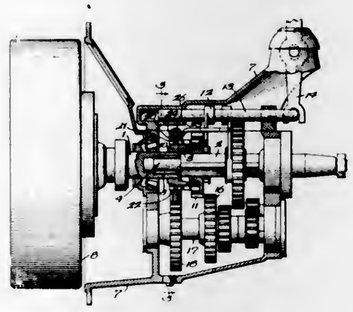
An incandescent electric lamp comprising a neck member having a screw threaded socket at one end, an external thread at the other end and a reduced plug extension projecting from the externally threaded end and adapted to engage an ordinary lamp socket, an incandescent bulb adapted to engage said screw threaded socket, a skirt spaced from and surrounding said neck member and provided at its upper end with an inward flange carrying a threaded rim adapted to engage the externally threaded portion of said neck member, a globe inclosing said bulb and provided with a neck adapted to fit said skirt, and fastening means connecting the neck of said globe with said skirt.

1,338,195. MOTOR-PLOW. THOMAS CHARLES SANTLER, Malvern Link, England. Filed Mar. 8, 1918. Serial No. 221,231. 9 Claims. (Cl. 97—50.)



1. In a plow, a supporting frame, a plow share disposed at each end of the frame, said plow shares being oppositely directed, and parallel link mechanism connecting the plow shares and frame whereby one plow share may be raised when the other is lowered.

1,338,196. GOVERNOR FOR MOTOR-VEHICLES. DAVID W. SELLEK, Chicago, Ill. Filed Mar. 12, 1918. Serial No. 222,003. 32 Claims. (Cl. 74—95.)

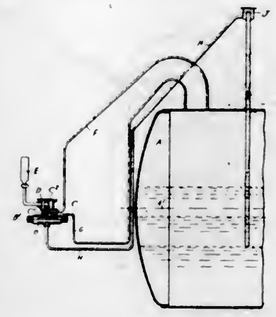


4. In a selective gear transmission, a governor, and two coöperating elements, one of which is manually movable to change the speed, and the other is movable under the influence of the governor to bring it out of coöperative relation with said manually movable element.

24. A change speed transmission for motor vehicles having two bodily movable elements, the first being movable to one position for obtaining high speed and to a second position for obtaining a lower speed, the second of said bodily movable elements being movable to an operative position for causing the transmission to function as a transmitter of power and movable to a non-operative position for preventing the transmission to function a signal, and speed controlled means for causing the second of said elements to move to non-operative position and simultaneously actuating said signal for indicating that the critical speed is being approached.

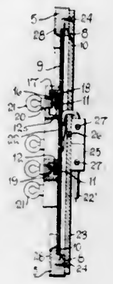
1,338,197. WATER-LEVEL ALARM APPARATUS FOR STEAM-GENERATORS. HENRY WILMOT SPENCER, London, and ROBERT CLARK, Kew Gardens, England. Filed June 9, 1919. Serial No. 302,951. 4 Claims. (Cl. 116—109.)

2. Water-level alarm apparatus for steam generators comprising a diaphragm chamber, a diaphragm in said chamber, a valve connected to said diaphragm, a spring to close said valve, a steam box in which said valve is located, an alarm connected to said steam box, a pipe opening communication between said steam box and the steam space of the generator, a second pipe opening communication between the valve side of said diaphragm chamber and the steam space of the generator, a third pipe opening communication between the opposite side of said dia-



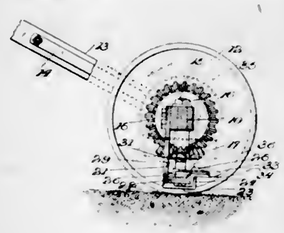
phragm chamber and the lower part of a water trap, and a stand-pipe leading from the upper part of said water trap to the water space of the generator.

1,338,198. ELECTRIC SIGN. WALTER SWALLOW, Rock Island, Ill. Filed Mar. 3, 1917. Serial No. 152,332. 1 Claim. (Cl. 40—130.2.)



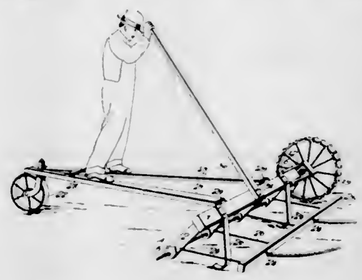
In combination with a support, a plurality of contacts carried by said support and electrically connected in series, one of said contacts being in connection with a source of electrical energy, a member of electrical conductive material overlying the support, devices for holding said member to the support, one of said devices being of conductive material and in communication with the source of electrical energy, electrical lamps carried by the member, each of said lamps having one contact in engagement with a contact carried by the support, the second contact of each of the lamps being in electrical connection with the member.

1,338,199. LAWN-MOWER. CECILIA A. TOFFT, Mount Ida, Ark. Filed Sept. 18, 1918. Serial No. 254,602. 6 Claims. (Cl. 56—258.)



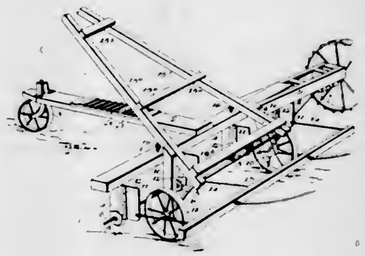
1. In a device of the class described, an axle held from rotation, traction wheels rotatable on said axle, hanger devices fixed to and depending from said axle, a supporting member carried by said hangers normally in vertical alinement with and below the axle, a sickle bar movable upon said supporting member and including sickle knives, and means supported by one end of the axle for transmitting the motion of the adjacent traction wheel to said sickle bar.

1,338,200. ROTARY-ROD WEEDER. LOUIS C. VAN PATTEN, Cheney, Wash., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Filed Oct. 25, 1919. Serial No. 333,393. 8 Claims. (Cl. 97—25.)



1. In rotary rod weeders, wherein is provided a transverse beam, pendent rod supports carried thereby, a rotatable rod mounted in bearings in said supports, means for driving said rod, draft applying means, skid arms secured to said beam, a tiller frame directly hinged to said transverse beam and supported thereby at its front end, and a lever secured to said transverse beam whereby an operator, standing on the tiller frame, can tilt said beam.

1,338,201. ROTARY-ROD WEEDER. LOUIS C. VAN PATTEN, Cheney, Wash., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Filed Oct. 25, 1919. Serial No. 333,394. 17 Claims. (Cl. 97—25.)

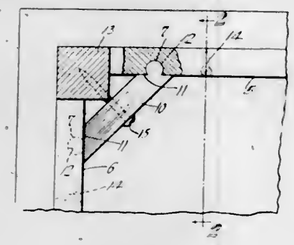


1. In rotary-rod weeders, the combination with the beam that carries the rotary-rod, and a tiller connected to said beam; a lever, ground wheels carried by said lever, and means pendently supporting said beam from said lever.

1,338,202. CORNER-BRACE FOR TABLES, &c. PERCY WHITE, Athol, Mass., assignor to L. Morse & Sons, Athol, Mass. Filed July 12, 1919. Serial No. 310,343. 2 Claims. (Cl. 45—48.)

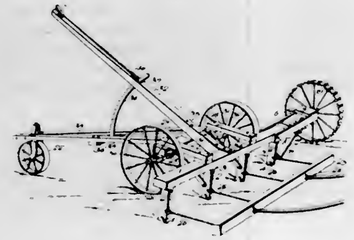
2. In a corner brace for tables, the combination with a table including a top and side walls rigidly secured thereto; of a leg having two sides abutting the ends of the rails and the inner corner thereof projecting between said rails, said rails having vertical dovetailed grooves therein communicating with their upper edges and terminating at spaced distances from their lower edges, a block extending diagonally between said rails adjacent the corner of the

leg, said block having its ends formed with vertical dovetailed projections adapted to engage the grooves in the



rails for vertical adjustment therein, and clamping means between the block and leg whereby to bind said parts in adjusted position.

1,338,203. ROTARY-ROD WEEDER. GARNETT H. WOLFE, Cheney, Wash., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Filed Oct. 25, 1919. Serial No. 333,184. 9 Claims. (Cl. 97—25.)



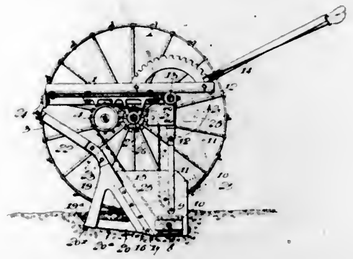
1. In rotary rod weeders, a wheeled truck including cross beams, pendent bearing supports carried thereby, a rotary rod journaled in said supports, means for driving said rod, a tiller frame hinged to said truck, a caster wheel mounted on said tiller frame, and means coöperative between said tiller frame and said truck to raise and lower said rotary rod.

3. In rotary rod weeders, the combination with the rotary-rod carrying beam, of a wheeled truck to which said rod carrying beam is connected in front, a wheeled tiller frame secured to said truck in the back, and means for raising and lowering said rod carrying beam with respect to said tiller frame and truck to thereby lift and lower the rotary rod.

8. In rotary rod weeders, a beam which carries the rotary rod and its driving mechanism, a tiller connected with said beam, and means for raising the rotary rod out of the ground while said tiller remains in contact with the ground.

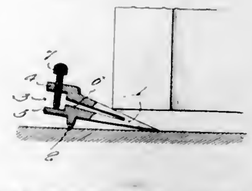
1,338,204. WEEDER AND CULTIVATOR. HENRY K. WOLFE, Cheney, Wash., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Filed Oct. 25, 1919. Serial No. 333,185. 13 Claims. (Cl. 97—25.)

1. In a weeder and cultivator, a weeding and cultivating member of rod-like contour, mechanism for sustaining, advancing and rotating said member below the surface soil, said member being disposed substantially transversely with respect to the direction in which the member is advanced, and means for spreading the weeds apart above the surface of the ground in advance of the engage-



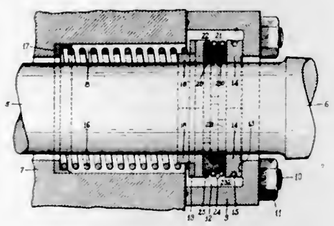
ment of the weeds by the rod below the surface of the ground, to allow unobstructed passage of the mechanism which sustains said member.

1,338,205. DOOR-CHECK. WARREN WALTON ALBRIGHT, Columbiana, Ala. Filed Oct. 27, 1919. Serial No. 333,487. 1 Claim. (Cl. 292—343.)



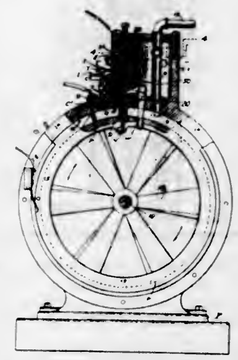
A door check comprising a one piece tapered block having a plurality of integral laterally disposed teeth on its lower side, said block being notched at its wide end to provide upper and lower spaced lugs, the block being further provided with a longitudinal split, opening into said notch to render the blocks resilient, and a thumb-screw extending through and having threaded engagement with the upper lug, its end bearing on the upper face of the lower lug serving to spread said lugs, substantially as set forth.

1,338,206. METALLIC ROD-PACKING. JOHN BADEKER, Omaha, Nebr., assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr., a Corporation of Nebraska. Filed Nov. 12, 1917. Serial No. 201,693. 5 Claims. (Cl. 286—22.)



5. In a metallic rod-packing, a packing-ring comprising an annular series of main segments having body-portions of rectangular axial section with clearance-spaces between adjacent ends thereof, a second annular series of segments fitting against one side of the main segments and having clearance-spaces arranged circumferentially intermediate the clearance-spaces of the main segments, the adjacent ends of each pair of the second series of segments having alined plane-surfaced outer sides, and flanges integral with the main segments extending over said end-portions of the second series of segments, said flanges having chordal inner faces engaging said plane-surfaced outer sides of the latter segments.

1,338,207. INTERNAL-COMBUSTION ROTARY ENGINE. JOHN W. BIRDZELL, Arkansas City, Kans. Filed Jan. 11, 1916. Serial No. 71,509. 5 Claims. (Cl. 123—14.)



1. In an engine, in combination, a casing, a rotor revoluble therein, a fuel-mixing chamber, a compressed air chamber, a spring-pressed slide valve projecting into said casing, and engaging the periphery of said rotor, a piston on said rotor slidably engaging the interior wall of said casing, means controlled by said valve for throwing said chambers open to intercommunication, and means controlled by said valve and adapted to conduct the fluid mixed into said rotor to act against said piston.

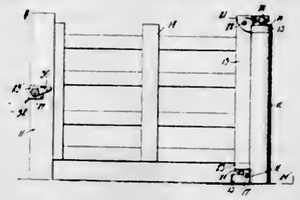
1,338,208. DEMOUNTABLE RIM FOR MOTOR-TRUCK WHEELS. ROBERT HERBERT BLANTON and HARRY LOWRY HOOPER, Selma, Ala. Filed Dec. 31, 1919. Serial No. 348,525. 4 Claims. (Cl. 295—8.5.)



1. In a demountable rim for truck wheels, the combination with a heavy truck wheel having a relatively narrow tread part, of a metallic demountable rim comprising ring plates concentrically adjacent the opposite faces of the felly of the wheel, means engaging through the felly and through the plates to secure said plates to the felly, a metallic cylindrical band relatively wide arranged over said tread surface between said plates and constituting an auxiliary tread broader relatively to the narrow tread part and adapted to ride upon wood rail sections, said ring plates extending radially outwardly beyond the auxiliary tread surface and acting to swing and rotate the ends of the rail sections in position and also hold the auxiliary tread in engagement with the rail sections.

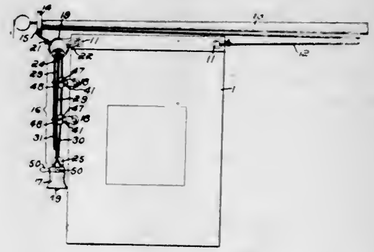
1,338,209. GATE-LATCH. VICTOR G. BRUBER, Rucker, Minn. Filed Sept. 28, 1916. Serial No. 122,712. 1 Claim. (Cl. 292—238.)

In combination, a post comprising main and gate abutment members having registering openings, plates at the outer side of the members in line with the openings thereof, a bolt mounted in the openings and passing through the said plates, one end of the bolt being enlarged to form a head and having intersecting openings and the other end of the bolt being threaded, an operating crank mounted on the threaded end of the bolt, a



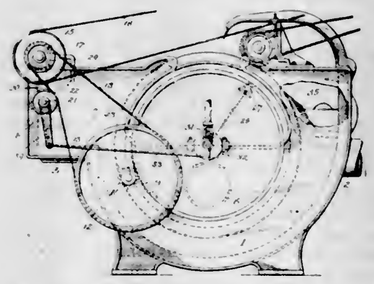
nut on the threaded end of the bolt to retain the bolt and operating crank in position, a latch adjustable in one of the openings of the bolt head and having an angularly and laterally curved gate engaging portion, and a set screw in the remaining opening of the bolt head to retain the latch in adjusted position.

1,338,210. SIGNALING APPARATUS. JOHN J. BUCKLEY, Boston, Mass., assignor, by direct and mesne assignments, of one-third to William T. Davidson, Boston, Mass., and two-thirds to Charles A. Schmitz, West Medford, Mass. Filed June 18, 1917. Serial No. 175,398. 25 Claims. (Cl. 116—173.)



1. In a signaling apparatus, the combination of supporting means, a flag supported thereby, and flag-controlling means including one or more weights secured to a generally vertical edge of said flag, and a generally vertical member on which said weight or weights are mounted to slide in a generally vertical direction.

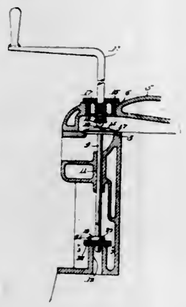
1,338,211. SAVE-ALL. RALPH S. CLARKE, Walpole, Mass., assignor to Bird Machine Company, a Corporation of Massachusetts. Filed July 23, 1919. Serial No. 312,875. 6 Claims. (Cl. 92—43.)



1. In a machine of the class described, the combination of a tank; a screen mounted for rotation therein; a

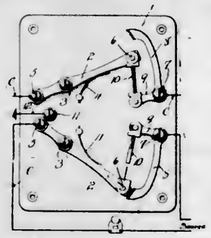
spray pipe adapted to project a shower against the screen surface; and means controlled by the level of the water in the tank for regulating the speed of rotation of the screen and the flow of water through the spray pipe.

1,338,212. VALVE-GRINDER. CARL DAHLSTEDT, Rockford, Ill. Filed Dec. 23, 1918. Serial No. 267,988. 6 Claims. (Cl. 51—4.)



1. A valve grinder comprising a manually rotatable member adapted for connection with a valve for imparting rotary movement thereto, means for yieldingly and constantly urging the valve against its seat, and means adapted to be manually actuated independently of said rotatable member for causing the valve to be lifted at will from and returned to its seat while being rotated by said member.

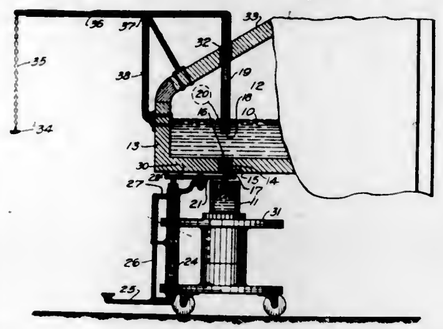
1,338,213. LIGHTNING-ARRESTER. GERHARD P. A. DAMSCHEN, Oconomowoc, Wis. Filed Apr. 27, 1918. Serial No. 231,123. 2 Claims. (Cl. 175—215.)



1. A current arrester including a pivoted contact arm, a ground contact member engageable by the pivoted contact arm, means for moving the pivoted contact arm into such engagement, a stationary contact member located adjacent to one end of the pivoted contact arm and elongated in the direction of the path of orbital movement of said end, said end of the contact arm being in close proximity to one end portion of said stationary contact member when the pivoted arm and the ground contact member are engaged, and a fusible link normally connecting the other end portion of the stationary contact member with the said end of the pivoted contact arm, said link being fused upon passage of an overload of current therethrough to permit said engagement of the pivoted contact arm and the ground member.

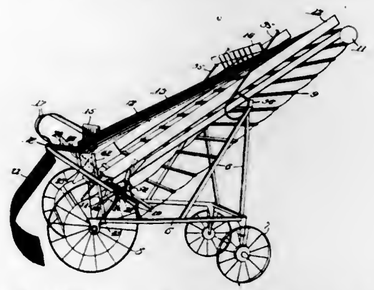
1,338,214. APPARATUS FOR DELIVERING MOLD CHARGES FROM GLASS-FURNACES. SCOTT DAVIDSON and ALEXANDER L. SCHRAM, Hillsboro, Ill., assignors to Schram Glass Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 21, 1917. Serial No. 182,046. 3 Claims. (Cl. 49—55.)

1. An apparatus for delivering mold charges from glass furnaces, comprising a furnace capable of containing a body of molten glass and provided with a discharge orifice, through which molten glass may flow by the action of gravity, an imperforate plunger projecting into said furnace and adapted to completely close the upper end of said orifice, the peripheral portion of the lower face of the



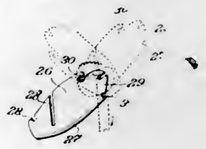
plunger, being flat and adapted to form a close joint with the upper end of the wall surrounding the discharge orifice, said plunger adapted on its downward stroke to assist the action of gravity in the flow of glass through the orifice, and on its upper stroke to retard said flow.

1,338,215. HAY-LOADER. CALVIN R. DAVIS, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Mar. 14, 1918. Serial No. 222,398. 16 Claims. (Cl. 56—360.)



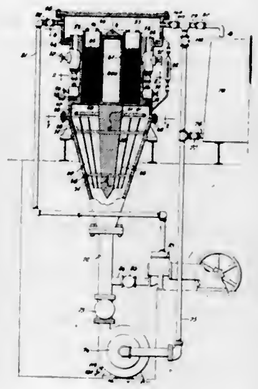
8. In a hayloader of the character described, a compressor overlying the hay elevating means, and means supporting the compressor including flat spring members upon the free ends of which the compressor is supported and slidable lengthwise of the spring members.

1,338,216. PRUNING IMPLEMENT. NICKALAUS E. DRAGUS, Fremont, Ohio. Filed Mar. 17, 1917. Serial No. 155,546. 1 Claim. (Cl. 30—11.)



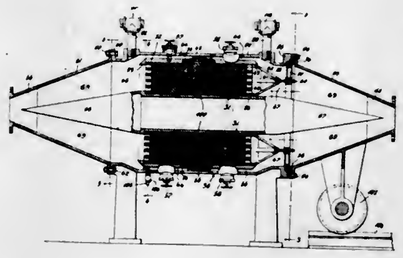
In an auxiliary cutter for pruning implement, the combination with an implement head having a plurality of non-alined bolts extending transversely through the head; of an elongated blade having a deep notch and an adjacent shallow notch at one end and having its opposite end centrally slotted and equipped with notches at opposite sides of the said slotted end, said notches and slotted end being adapted for selective engagement with the said non-alined bolts for attaching and maintaining the said blade at different angles on the said head.

1,338,217. DYEING-MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Jan. 25, 1918. Serial No. 213,802. 1 Claim. (Cl. 8—18.)



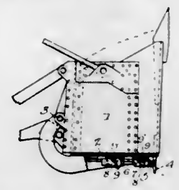
In a dyeing device, in combination, a body member; a series of fiber chambers within the body; a foraminous bottom within each fiber chamber; a movable foraminous top within each fiber chamber; a slidable member within each fiber chamber abuttable upon the foraminous top; means carried by the body and the slidable member whereby each foraminous top may be variably positioned within the fiber chamber; a liquid chamber above the body; a liquid chamber below the body; downwardly converging members within the lower liquid chamber; means whereby a liquid may be forced upwardly through the lower liquid chamber, the foraminous bottoms, the fiber chambers, the foraminous tops and the upper liquid chamber and means whereby a liquid may be drawn upwardly through the lower liquid chamber, the foraminous bottoms, the fiber chambers, the foraminous tops and the upper liquid chamber.

1,338,218. DYEING-MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Mar. 6, 1918. Serial No. 220,850. 4 Claims. (Cl. 8—18.)



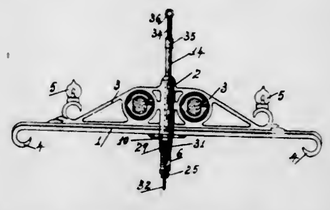
1. In a dyeing machine, in combination, a receptacle, a series of dyeing chambers within the receptacle, a foraminous plate forming one end of each dyeing chamber, a second foraminous plate forming the other end of each dyeing chamber, means for moving the plates with respect to each other and capable of compressing fiber between them, means for forcing a liquid in one direction through the device and fiber therein and means for drawing a liquid in the opposite direction through the device and fiber therein.

1,338,219. SELF-OPERATING LATCH. PIERPONT E. DUTCHER, Milwaukee, Wis. Filed Feb. 16, 1917. Serial No. 149,031. 9 Claims. (Cl. 292—183.)



1. The combination with a receptacle having a movable closure, of a latch comprising a movable bolt guided on the closure and a keeper on the receptacle with which the bolt positively engages to lock the closure shut, and means actuated by opening pressure on the closure and adapted to withdraw the bolt from the keeper with the initial opening movement of the closure.

1,338,220. BANANA WEIGHER AND HANGER. FRANK GILLARDE, Springfield, Ill. Filed Feb. 17, 1919. Serial No. 277,656. 6 Claims. (Cl. 265—63.)



1. In a banana weigher and hanger, the combination of a casing, a cap on the casing and having an elongated internally screw-threaded hub; a weighing spring within the casing; a screw rod engaging in the screw-threaded hub of the cap and connected with and sustaining the weighing spring, and adapted to take hold on a permanent structure to support the casing and connected parts thereon, and a hanger supported on said cap and rotative around the hub thereof.

1,338,221. LOCKING DEVICE. WILLIAM H. GREENLEAF, Hartford, Conn., assignor to Connecticut Electric Clock Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 25, 1917. Serial No. 193,173. 3 Claims. (Cl. 58—56.)

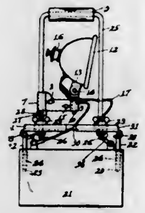


2. A locking ring having a flat inner face and provided on its inner edge with an angular resilient locking finger.

1,338,222. STORAGE-BATTERY LAMP. CLARENCE W. HAZELETT, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Oct. 2, 1918. Serial No. 256,586. 8 Claims. (Cl. 240—8.5.)

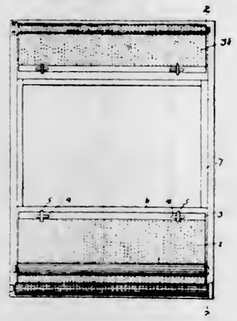
3. In portable electric storage battery lamps, a casing for a storage battery, a bail shaped handle, means for

connecting the handle to the casing, a bracket swiveled on one of the arms of the bail, a socket in the free end



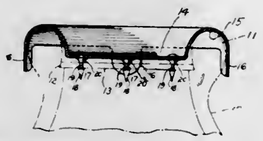
of the bracket and a reflector adapted to receive an incandescent light source, said reflector having a stud adapted to fit in the socket.

1,338,223. AUTOMATIC SCREEN. SAMUEL HEATH, Roxborough, Pa. Filed Jan. 13, 1919. Serial No. 270,815. 2 Claims. (Cl. 156—39.)



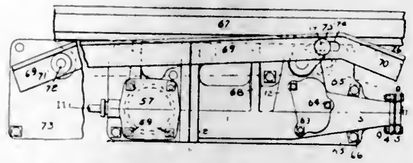
2. In combination with a screen roll of the character described, an actuating mechanism consisting of a plate having holes therein for attachment to a window casing, a stationary ratchet secured upon said plate, a hub having a spindle adapted to revolve in said plate, a flange ing a spindle adapted to revolve in said plate, a flange disk secured to the hub, a pawl pivoted to the disk, said pawl adapted to engage the teeth of said ratchet, a spring coiled about the hub, its inner end being attached to said hub and its outer end to the casing, and a shank rectangular in cross section carried by the hub.

1,338,224. BOTTLE OPENER AND CLOSER. HENRY HUNT, Devon, and RICHARD SCHAAB, Bridgeport, Conn., assignors of one-third to Paul F. Zeidler, Bridgeport, Conn. Filed Dec. 6, 1919. Serial No. 342,990. 1 Claim. (Cl. 215—53.)



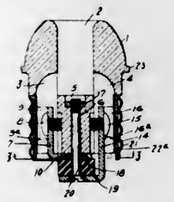
An implement of the character described, comprising a plate shaped to form a central depression and having a groove to receive the mouth of a bottle and resilient tongues extending below the outer wall of the groove, whereby the implement is centered on a bottle neck, and prongs depending from the central depression and adapted to be passed through a bottle closure, each prong consisting of a barb and tapering shank, said barb and shank being connected by a neck having a reduced diameter, whereby the barbs can be easily passed through the closure of a bottle, and the shanks can pass into the holes in said closure made by said barbs and plug them tightly.

1,338,225. CAR-CHECK. GEORGE M. JOHNSON, McDonald, Pa. Filed Sept. 6, 1917. Serial No. 189,987. 4 Claims. (Cl. 188—41.)



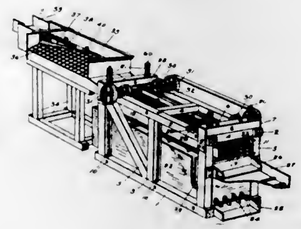
2. A car check comprising a pivoted checkrail capable of being engaged by the wheels of a car for shifting it on its pivot, a piston operatively connected with said rail and shifted in one direction when the rail is shifted by the wheels of a car, means to provide a fluid cushion for the movement of said piston in one direction, and means for regulating the discharge of fluid to control the movement of the checkrail.

1,338,226. ATTACHMENT-PLUG. JOHN J. KENNEY, Pittsburgh, Pa., assignor to Best Electric Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 7, 1916. Serial No. 113,507. 2 Claims. (Cl. 173—359.)



1. A solid attachment plug, comprising an integral insulating base having a central bore for receiving conductor wires and lateral longitudinal recesses for housing conductor terminals, terminals in said recesses having their lower ends bent over across the end of the base and one of them forming the central contact of the plug, a separating insulating member, a threaded outer contact shell attached to one conductor terminal, and a central terminal contact screw engaging the other conductor terminal and binding all of the parts to the base.

1,338,227. SIZING APPARATUS. JOHN GIDEON KIRKSEY, Seattle, Wash. Filed May 31, 1916, Serial No. 100,963. Renewed Sept. 29, 1919. Serial No. 327,266. 1 Claim. (Cl. 83—56.)



A sizing apparatus comprising a longitudinally inclined outer frame, an inner screen carrying frame mount-

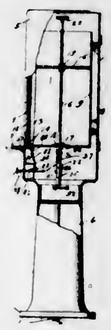
ed within said outer frame and suspended on rods connecting with adjustable resilient springs mounted on the upper members of said outer frame and near its corners, a plurality of screens of descending mesh sizes secured in said inner frame in superimposed spaced relation the uppermost being the coarsest and the lowermost the finest, yieldable buffers disposed near the corners of said inner frame adapted to impinge and coact against corresponding buffers attached to said outer frame, means for imparting a rapid upward bumping action at each corner between said inner and outer frames, means for conveying material to be acted upon to said inner screened member, means for removing the oversizes discharged from said screened members, means for removing the material passing through the lowermost or finest screen of said screened member, substantially as described.

1,338,228. MAIL-BAG-TRANSFERRING DEVICE. MICHAEL J. KISSEL, Trenton, N. J. Filed June 12, 1919. Serial No. 303,811. 4 Claims. (Cl. 258—26.)



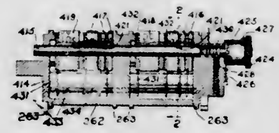
1. A mail bag transferring device comprising a support having oppositely projecting arms, hooks attached to the support at opposite sides thereof, and each hook having a portion parallel to one of the said arms, and a ring adapted for connection with one of the said hooks, and provided with a lock having a recess to engage the hook, and equipped with ears to receive the mail bag whereby the said ring may be extended centrally outwardly from one of the said arms.

1,338,229. LIQUID-FUEL-VENDING MACHINE. LEONARD LATHAM, Columbus, Ohio. Filed Apr. 16, 1919. Serial No. 290,452. 2 Claims. (Cl. 221—113.)



1. In a device of the character described, the combination of a tank, a supply pipe communicating with said tank and being provided with a rotary valve having a shaft leading therefrom and provided with a cross arm, an arcuate cam strip carried by said arm, a dispensing elbow leading from said tank and having a valve provided with a stem, means for urging said stem in one direction to pull the last mentioned valve toward a seated position upon said elbow, said stem normally resting upon said cam strip, whereby the last mentioned valve will be held in an open condition, and means for swinging said cross arm, thus causing the shaft to open the first mentioned valve, while said cam strip will disengage the stem to allow the last mentioned valve to move to a closed position.

1,338,230. SETTING MECHANISM. CHARLES L. LEE, Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Original application filed July 20, 1916, Serial No. 110,317. Divided and this application filed Aug. 5, 1918. Serial No. 248,336. 3 Claims. (Cl. 101—90.)



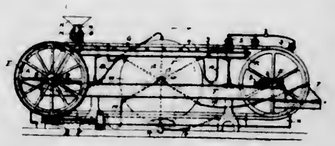
1. In a machine of the class described, the combination of a set of rotatable elements, spring pressed pawls carried by the elements, and a shaft having a notch common to the pawls, said shaft being both movable endwise to establish operative relationship between the notch and the desired pawl and rotatable to engage the pawl and thereby rotate the element.

1,338,231. SOLID SOLUBLE BEVERAGE EXTRACT AND PROCESS OF MANUFACTURING SAME. JONATHAN K. LIPPEN, Battle Creek, Mich., assignor to Postum Cereal Company, Battle Creek, Mich., a Corporation of Michigan. Filed Apr. 1, 1918. Serial No. 226,055. 10 Claims. (Cl. 99—11.)

1. A solid soluble beverage extract of a roasted mixture including saccharine material, a dextrinized grain-sorghum product, and rye middlings.

7. The process of making a solid soluble beverage extract consisting in flaking feterita grains, separating from the flakes a part of the flour and dextrinizing the latter, mixing therewith the flake portion, dextrinized wheat and barley malt flours, rye middlings and New Orleans molasses, heating the mixture in the presence of the contained moisture of the molasses, then roasting the product at a caramelizing temperature, extracting the roasted product with water, and evaporating the fluid extract to a solid.

1,338,232. FILTERING-BELT. JASPER A. MCCASKELL, Salt Lake City, Utah. Filed June 21, 1918. Serial No. 241,273. 11 Claims. (Cl. 210—198.)

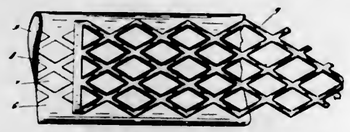


1. The combination with a filtering belt and means for supplying material to be filtered thereto, said belt having an interior fluid space, of a filtrate collector associated with the belt having independent fluid passages, flexible conductors connected at a plurality of points along the belt respectively with the fluid space of the belt and to said fluid passages, means for winding and unwinding the flexible conductors during the travel of the belt, and means for controlling the discharge of filtrate.

1,338,233. VULCANIZER'S DIE FOR PRESERVING ANTISKID TIRE-TREADS. OSCAR L. MCCORMICK, Birmingham, Ala. Filed Mar. 20, 1919. Serial No. 283,890. 2 Claims. (Cl. 18—18.)

1. A repair die for vulcanizing anti-skid tire treads consisting of a short flexible metallic die having raised

portions complementary to the depressed portions of the anti-skid tread and provided with sight openings to adapt



it to be fitted into said depressed portions and to overlie the portion of the tire to be vulcanized prior to its introduction into the vulcanizing apparatus.

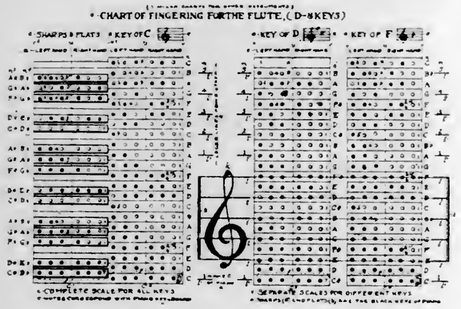
1,338,234. PROCESS FOR THE RECOVERY OF POTASSIUM SALTS. PARKER C. MCILHINEY, Great Neck, N. Y., assignor to California Alkali Company, San Francisco, Calif., a Corporation of California. Filed Feb. 11, 1918. Serial No. 216,513. 14 Claims. (Cl. 23—22.)

1. The process of obtaining potassium chlorate directly from natural brines or similar solutions containing a soluble potassium salt associated with borax, which consists in causing a reagent including a soluble chlorate to react with said potassium salt, and removing the insoluble potassium chlorate resulting from the reaction.

1,338,235. PROCESS FOR THE RECOVERY OF POTASSIUM SALTS. PARKER C. MCILHINEY, Great Neck, N. Y., assignor to California Alkali Company, San Francisco, Calif., a Corporation of California. Filed Feb. 11, 1918. Serial No. 216,514. 16 Claims. (Cl. 23—22.)

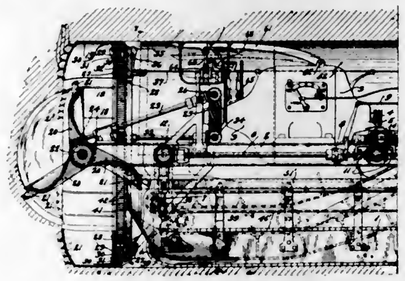
1. The purpose of obtaining a commercially pure potassium salt from a solution containing a soluble potassium salt associated with other salts commonly found in natural brines, which comprises causing said potassium salt to react with a reagent including a soluble salt whose acid radical forms an insoluble single salt with the potassium, and removing the insoluble potassium salt so formed from the solution.

1,338,236. MUSICAL-INSTRUCTION CHART. CHARLES RANSOM MCNEIL, New York, N. Y. Filed Nov. 18, 1918. Serial No. 262,936. 4 Claims. (Cl. 283—47.)



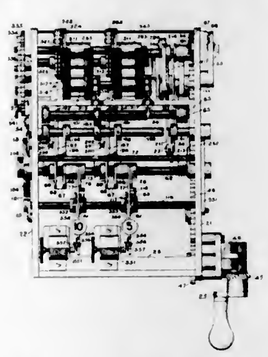
1. As a new article of manufacture, an instruction chart for use in playing musical instruments, said chart having a series of horizontal spaces severally printed with indicia indicating how to place the fingers on the instrument to produce a certain note, and also printed with visible adjacent indicia indicative of the name of said note; said chart being also printed with a representation of the musical staff which is located on the chart with its lines and spaces severally in horizontal alinement with a horizontal alinement of the fingering indicia and the indicia indicating the name of the note which in written music is printed on such staff line or space; some of the fingering indicia being on the horizontal lines of the musical staff, and others being on the axes of the spaces between said musical-staff lines.

1,338,237. TUNNELING APPARATUS. JAMES O. MACK, Alexandria, La. Filed May 21, 1918. Serial No. 235,808. 27 Claims. (Cl. 61—84.)



1. In excavating apparatus of the class described, the combination with excavating means, a support therefor adapted to carry tunnel lining members and means for moving the support, of mechanism for automatically applying said lining members to the wall of excavation during the excavating operation.

1,338,238. TICKET PRINTING AND ISSUING MACHINE. HAAKON A. MARTIN, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed May 14, 1917. Serial No. 168,515. 30 Claims. (Cl. 101—66.)

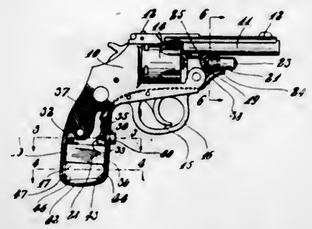


1. In a machine of the class described, the combination of a ticket printing and issuing mechanism, means for operating said mechanism continuously to print any number of tickets desired, and a manipulative device controlling the number of tickets issued at an operation.

1,338,239. SEARCHLIGHT-FIREARM. JOSEPH MATYS, East Brimfield, Mass. Filed July 20, 1917. Serial No. 181,689. 2 Claims. (Cl. 240—8.4.)

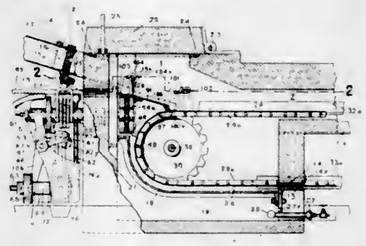
1. In a device of the character described, in combination, a pistol handle formed hollow throughout and open at its outer end, a lug projecting horizontally within said hollow handle, a pair of springs secured in said hollow handle and formed with yieldable projections at their lower ends, a battery supported upon the projections of said springs, a spring finger carried by said battery and

engageable with said lugs, the wall of said handle having a slot, a pair of normally separated contact springs



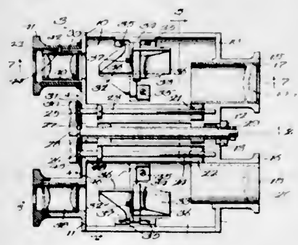
secured respectively to the inner wall of said handle and to said battery and a push button held projected out of said slot by one of said springs.

1,338,240. AUTOMATIC CONVEYER AND LEER. WILBUR S. MAYERS, Fairmont, W. Va. Filed Dec. 11, 1917. Serial No. 206,666. 22 Claims. (Cl. 49—47.)



1. A leer comprising a practically inclosed receiving-chamber, a combustion-chamber, a series of cooling-chambers connected to said receiving-chamber, a main-conveyer, a cross-conveyer, a multiple-chute from the cross-conveyer to the main-conveyer, a chute from the outside to the cross-conveyer, stops adjacent to and deflectors attached to the lower ends of both chutes, a pusher-bar and means for actuating the conveyers and the pusher-bar, substantially as described.

1,338,241. BINOCULAR. RANDOLPH MELING and GUSTAVE R. MELING, Chicago, Ill. Filed Apr. 25, 1918. Serial No. 230,674. 3 Claims. (Cl. 88—33.)



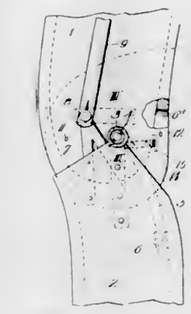
1. A binocular having two barrels hinged together, cylindrical projections extending from said barrels, objective tubes slidably mounted in said projections, threaded lugs on said tubes arranged within the barrels, adjusting screws engaging with the respective lugs, and means for simultaneously turning said screws.

1,338,242. SPRINKLING ATTACHMENT FOR GARDEN-FAUCETS. HARMON DE LEON MOISE, Sumter, S. C., assignor to The Hoseless Sprinkler Company, a Corporation of South Carolina. Filed June 2, 1919. Serial No. 301,181. 3 Claims. (Cl. 299—73.)



3. A sprinkling attachment comprising an elbow-shaped pipe section, water-tight means for detachably and directly connecting said elbow-shaped pipe section to a faucet in any adjusted position of the latter, including a threaded member and an elastic packing, whereby said pipe section may be freely turned about its connection and frictionally held in adjusted position, a second elbow-shaped pipe section, external water-tight means for connecting said pipe sections including a threaded member and an elastic packing, whereby said second elbow-shaped pipe section may be freely turned around the end of the pipe section to which it is connected and frictionally held in adjusted position, said pipe sections having a free and unobstructed water passage for all adjustments of said pipe sections, and means for detachably and directly connecting a nozzle to the outer end of said second pipe section, said pipe sections and connecting means permitting the nozzle to be set in any position relative to the faucet.

1,338,243. ARTIFICIAL LIMB. HARRY J. MORRIS, Kansas City, Mo. Filed Oct. 7, 1918. Serial No. 257,112. 3 Claims. (Cl. 3—2.)

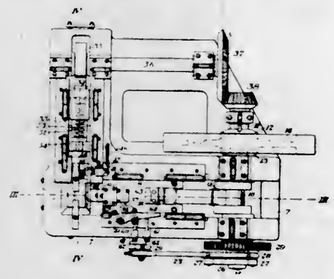


1. In an artificial limb, a thigh member and a shin member pivotally connected together to constitute a knee joint; said thigh member having openings underlying and disposed transversely of the pivot, resilient fiber sleeves fitted around the pivot above said openings, and split from end to end at a point in the plane of the front side of the pivot and in a plane below the axis of said pivot, means for fastening the upper half of said sleeves rigidly to said pivot leaving the lower half from said split rearwardly loose and free to swing toward and from the underside of the pivot, and adjustable means in said openings for applying upward pressure on said free ends of said sleeves for causing the same to bear firmly against the pivot.

1,338,244. APPARATUS FOR MAKING NUTS. FERDINAND MUMMELTHEY and CHESTER H. HOLMES, Coraopolis, Pa. Filed May 27, 1915. Serial No. 30,755. 8 Claims. (Cl. 10—76.)

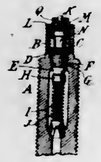
1. A device for the manufacture of nut blanks, comprising a two-part die, said die having a stock gripping

portion and a nut blank forming portion, one of said parts being fixed, the other being movable with relation thereto, means to move one part of said die relative to the other to permit the stock to be fed therethrough and release a finished blank when moved in one direction, a reciprocating tool holder arranged to coact with the die to form the blank therein, means to reciprocate said tool holder with



relation to the die and an upsetting tool on the tool holder arranged to form the nut blank in the die, a punch on the tool holder arranged to force the surplus material in the blank back through the blank, together with the stock, and means for moving said tool holder in a lateral direction with relation to the die to alternately bring the punch and upsetting tool in line with the die, substantially as described.

1,338,245. TIRE-VALVE OR THE LIKE. EUGENE V. MYERS, East Orange, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 25, 1916. Serial No. 86,742. 16 Claims. (Cl. 152—12.)



7. For pneumatic tire valves or the like, a valve and its seat, the seat having a sliding manipulating part permanently and non-rotatively connected thereto and independent of the valve, and means for moving said part.

1,338,246. SECTIONAL SHIP AND METHOD OF JOINING THE SECTIONS. JAMES MACEY, Cleveland, Ohio. Filed Dec. 12, 1918. Serial No. 266,431. 20 Claims. (Cl. 114—77.)



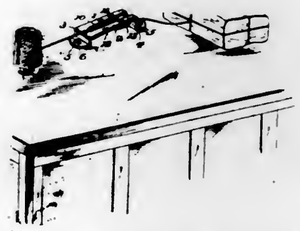
1. The method of constructing vessels consisting of building the vessels in sections each terminating in an athwartship bulk head forming a permanent part of the vessel, said bulk heads having holes through them adapted to register, closing said holes below the water line by closures removable from the inside of the hull, bringing the sections together while afloat with their bulk heads abutting, and successively removing the closures and substituting through connecting devices occupying both bulk heads.

1,338,247. AIRPLANE. HENRY CLAY NEAL, Philadelphia, Miss. Filed May 23, 1919. Serial No. 299,185. 17 Claims. (Cl. 244—19.)



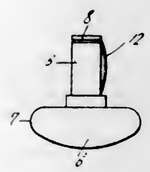
1. An airplane, comprising a main revolving sustaining plane with a plurality of openings, a movable lifting plane operatively associated with each opening, means carried by the main plane and coöperating with a portion of said lifting plane to enable the lifting planes to rise from the openings when the main plane begins to revolve, means for limiting the opening movement of said planes, and manually controlled means for adjusting said lifting planes while the main plane is in revolution.

1,338,248. CORD-CUTTER. AXEL A. NELSON, Washington, D. C. Filed Jan. 23, 1919. Serial No. 272,693. 4 Claims. (Cl. 30—14.)



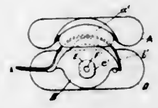
4. A cord cutter including a support having a body portion and angularly disposed end portions, one of said end portions being of less length than the other, said body portion and the longer end portion having a slot formed therein, and converging blades supported on the undersurface of said body portion adjacent the edges of said slot, said convergence being toward the shorter of said end portions, each of said blades having its lower edge bearing against the angularly disposed short end of said body portion.

1,338,249. CASTER. CHARLES G. OVERMYER, Hartford City, Ind., assignor of one-half to Samuel J. Farrell, Hartford City, Ind. Filed July 2, 1919. Serial No. 308,163. 3 Claims. (Cl. 16—4.)



2. In combination with a socket, a furniture slide including a shank having a radial groove adjacent one of its ends, longitudinal grooves communicating with the radial groove, and a securing means including resilient legs, positioned in the grooves, for frictionally engaging the walls of the socket, and a head on one end of the shank.

1,338,250. WINDOW-SASH FASTENER. SAMUEL ROWLAND PARKES, Willenhall, England. Filed Nov. 27, 1915. Serial No. 63,709. 1 Claim. (Cl. 292—241.)



A sash fastener, including a base having a circular opening, a lever arranged upon the base and provided at the said opening with opposite slots, a strip arranged upon the upper face of the lever and extending across the space between the said slots and provided with spaced lugs extending through the said slots and projecting downwardly from the lever into the base, springs arranged within the base in position for engaging the lugs at opposite sides of the said opening, a washer arranged within the base and fitting against the lower edges of the springs, and a pivot piercing the strip, the lever and the washer and securing the said parts to the base.

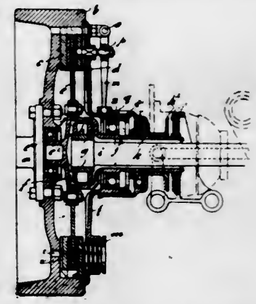
1,338,251. LUBRICATED HINGE. FRANCISCO HERNANDEZ Y PEREZ, Habana, Cuba. Filed Mar. 22, 1919. Serial No. 284,230. 3 Claims. (Cl. 16—11.)



1. A hinge including a pair of leaves, one of said leaves being provided with lugs adjacent its upper and lower edges, and the second leaf being formed with a cylindrical casing adjacent one side edge, a rod secured to the upper lug to turn therewith, said rod projecting into and being spaced from the cylindrical casing, ball races positioned below the lower end of the rod, said ball races including a disk secured to the lower end of the rod to turn therewith, a base portion below said lower end, a disk positioned between the first named disk and base portion, and bearing balls interposed between said latter disk, the base portion and the first named disk, and a pin, extending centrally through said upper lug, said rod and said disks.

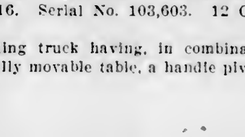
1,338,252. CLUTCH AND TRANSMISSION MECHANISM FOR MOTOR ROAD AND OTHER VEHICLES. GEORGE EDWARD DURSTON RALLS, Birmingham, England. Filed Apr. 18, 1918. Serial No. 229,403. 1 Claim. (Cl. 192—7.)

The combination of a pair of shafts arranged end to end, a pair of concentrically arranged axially movable sleeves on one of said shafts, an intermediate plate secured to the inner of said sleeves, a pair of friction members revoluble with the other shaft and arranged on opposite sides of the intermediate plate, one of said members being movable toward and from said plate, and means operated by the outer of the concentric sleeves to displace said last named member, said sleeves being constructed and arranged to cause the inner sleeve, together with the intermediate plate, to be displaced by the outer sleeve after the



latter has been displaced and has caused the last named friction member to be displaced from said intermediate plate.

1,338,253. RAILROAD-CROSSING. RICHARD ROTHWELL, Los Angeles, Calif. Filed Oct. 13, 1919. Serial No. 330,453. 4 Claims. (Cl. 246—380.)



1. An actuator for silent railway crossings comprising the combination with a rail, of an actuator mounting having an attaching plate secured against the inner side of the rail, a ledge extending inwardly from the upper part of the attaching plate, an actuator bar pivotally connected to the ledge at a point inside of the wheel flange groove and adapted to extend diagonally across the wheel flange groove to the rail, and a lever pivotally attached to the ledge and having an arm extending inwardly and adapted to be connected to the crossing mechanism and having a second arm extending outwardly on a diagonal line and adapted to be operated by the actuator bar.

1,338,254. DRAWING-TABLE. MARTHA K. SCHAUER, Dayton, Ohio. Filed May 7, 1919. Serial No. 295,270. 2 Claims. (Cl. 45—31.)



1. In a drawing table, the combination with a top therefor containing on a line running lengthwise through its middle portion, a series of elongated slots, of copy-holding boards vertically movable through said slots to positions above the top that divide it into separate drawing spaces, means below the top on which said boards rest in their lower positions, and guides for said boards between said top and supporting means.

1,338,255. ELEVATING-TRUCK. BERNARD E. SCRIVEN, Mount Vernon, N. Y., assignor to Plimpton Press, Norwood, Mass., a Corporation of Massachusetts. Filed June 14, 1916. Serial No. 103,603. 12 Claims. (Cl. 254—5.)

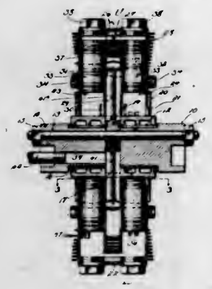
1. An elevating truck having, in combination, a carriage, a vertically movable table, a handle pivoted to turn

about vertical and horizontal axes, means for raising the table comprising a pivoted link, the link and handle being provided with coöperating surfaces for connecting the



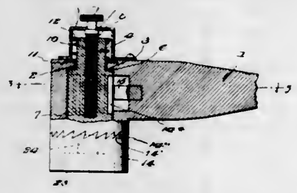
link to the handle whereby a downward movement of the handle effects the raising of the table, and a spring for normally holding the link in raised position out of the path of movement of the handle.

1,338,256. ROTARY INTERNAL-COMBUSTION ENGINE. HENRY R. SIEVERKROPP, Racine, Wis. Filed Jan. 29, 1919. Serial No. 273,798. 3 Claims. (Cl. 123—44.)



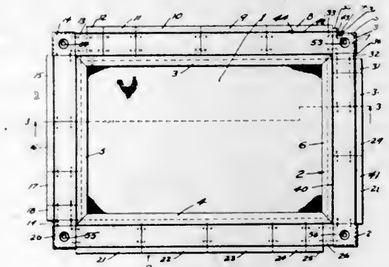
1. A rotary engine including a stationary center journal structure, provided with a fuel supply chamber, a cylinder ring journaled on said stationary center journal structure and provided with openings communicating with the said fuel supply chamber, pairs of cylinders secured on the cylinder ring, a chamber between the cylinders of each pair communicating with a corresponding opening of the ring, means for conducting fuel vapor from the cylinder chamber to the cylinders, pistons in the cylinders, pitmen connected with said pistons and disposed in the cylinder chambers and extending through the openings of the cylinder ring, and a journal for the pitmen carried by said center journal structure.

1,338,257. RATCHET-WRENCH. GEORGE A. SMITH, Seattle, Wash. Filed June 7, 1919. Serial No. 302,389. 1 Claim. (Cl. 81—60.)



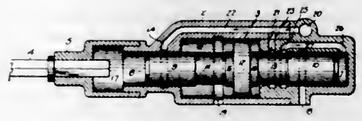
A wrench, the combination of a handle having an opening, provided with an inwardly extending annular shoulder in the upper end thereof, and ratchet teeth formed on the handle about the lower end of the opening, a shaft having a reduced end provided with a threaded opening, and an enlarged end provided with ratchet teeth to engage the ratchet teeth on the handle, and a recess for engaging a nut, the shaft being also provided with teeth on its periphery, means tending to keep the shoulder formed by the reduced end of the shaft in engagement with said annular shoulder, a cap secured to the handle over the reduced end of said shaft, a set screw revolubly mounted in the cap having an annular shoulder and a threaded stem, the stem engaging the threaded opening in said shaft, a pawl mounted in the handle and adapted to engage the teeth on the shaft, a spring to normally disengage the pawl and means for engaging the pawl with the teeth whereby to turn a nut in one direction the set screw is turned to permit the ratchet teeth on the shaft to engage the ratchet teeth on the handle, and to turn a nut in the opposite direction the set screw is turned to disengage said ratchet teeth after which the pawl is caused to engage the teeth on the shaft by its engaging means.

1,338,258. ADJUSTABLE PICTURE-FRAME. JOHN FRANCIS SMITH, Los Angeles, Calif. Filed May 22, 1919. Serial No. 298,920. 2 Claims. (Cl. 40—155.)



1. An adjustable picture frame having side and end pieces, interchangeable corner blocks adapted to connect the side and end pieces together comprising a front member and a back member and a bolt and nut for holding the front and back members together for clamping the side and end pieces.

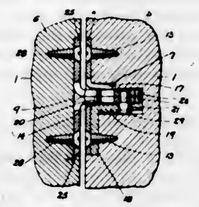
1,338,259. IMPACT-ENGINE. WILLIAM A. SMITH, Denver, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 26, 1917. Serial No. 208,755. 10 Claims. (Cl. 121—17.)



1. An impact-engine comprising a housing having primary and auxiliary piston-chambers, ports for the admission of motive fluid at corresponding ends thereof and independent ports in said chambers for the exhaust of fluid directly from said chambers, and a tool-operating piston in said housing having working faces in said chambers and controlling the fluid-passage through said admission and exhaust ports, the piston being adapted to establish communication between the chambers and the respective exhaust-ports at the finish of its active stroke and to uncover the admission ports at the finish of its idle stroke for the admission of fluid to the chambers.

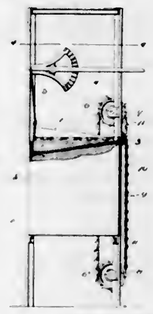
1,338,260. HINGE. JOSEPH SOSS, New York, N. Y. Filed Aug. 27, 1919. Serial No. 320,214. 4 Claims. (Cl. 16—5.)

2. A hinge butt member comprising a plate, an L-shaped reinforcing plate member secured to one face of said plate, said plate being provided with an apertured portion, a member formed integrally with said plate and



extending at an angle thereto, and said reinforcing plate member being provided with a part which extends at an angle to said plate.

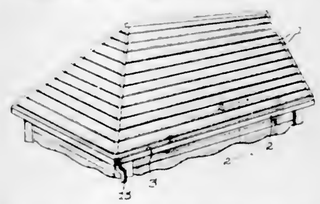
1,338,261. PROCESS AND APPARATUS FOR THE PRODUCTION OF SHEET-GLASS. GEORGE B. STANTON, Farmers Valley, Pa. Filed November 8, 1916. Serial No. 130,192. 3 Claims. (Cl. 49—17.)



1. That process of producing sheet glass which consists in pouring the molten glass in a sheet of uniform thickness, moving a collecting medium downwardly past the point at which the glass is poured whereby to collect, by adherence to the said medium, the first poured portion only of the sheet, and as the sheet is formed through hardening of the glass leading the sheet downwardly by the collecting medium, and subsequently disassociating the collecting medium from the sheet.

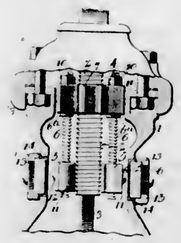
2. In a machine of the class described, a container for molten glass arranged at one side to discharge the glass in a sheet of uniform thickness by pouring, means for adjusting the container to pour the molten glass therefrom, bait rods, and means for supporting and moving the bait rods downwardly past and in close proximity to the said pouring side of the container.

1,338,262. ROOF. CHARLES A. STATLER, Chicago, Ill. Original application filed Mar. 29, 1918, Serial No. 225,403. Divided and this application filed Apr. 5, 1919. Serial No. 287,730. 2 Claims. (Cl. 108—22.)



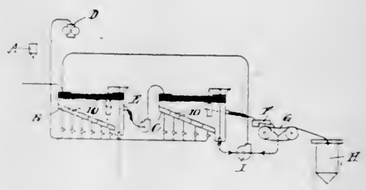
1. In a roof of the character described, an upstanding member at the lower edge of the roof providing a gutter space, a strip of flexible roofing material having a weather surface composed mainly of asphaltum or the like, one edge of the sheet secured to the upper part of the upstanding member with its weather face in contact therewith, a clamping strip tightly securing the edge of the sheet to and against the upstanding-member, whereby the asphaltum coating effects a weather tight seal between the sheet and the upstanding member, the body of said sheet formed over the clamping strip and down into the gutter space, and the opposite edge of the sheet extending up on the roof and sealed thereto.

1,338,263. INDICATOR VALVE-POST. ROBERT HARRY THORNE and FRANK JAMES MILLER, Williamsport, Pa., assignors to Darling Valve and Manufacturing Company, Williamsport, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1918. Serial No. 249,723. 11 Claims. (Cl. 137—13.)



1. In an indicator valve post, screw-actuated legend plate bearing means, other legend plate bearing means, and combined means for suspending the latter from the former, arranged to adjust the latter with respect to the former.

1,338,264. FLOTATION PROCESS. EDWIN BRYANT THORNHILL, Ottawa, Ontario, Canada, assignor to The General Engineering Company, Incorporated, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 8, 1918. Serial No. 221,266. 1 Claim. (Cl. 83—85.)

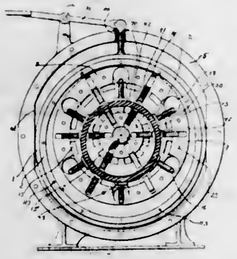


The herein described process of coagulating certain minerals in preference to others by flotation, screening the resulting concentrates, whereby the coagulated mineral is held on the screen, and the uncoagulated ones pass through, and returning the same back into the original feed for retreatment.

1,338,265. COMBINED ROTARY PUMP AND MOTOR. COPELAND TOWNSEND, New York, N. Y. Filed Aug. 10, 1918. Serial No. 249,233. 9 Claims. (Cl. 103—44.)

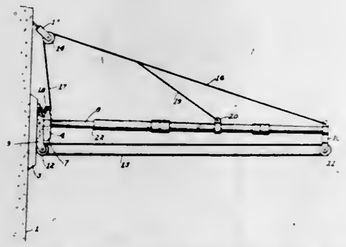
9. In combination, three ring-like members, means for simultaneously rotating them, means for giving the central ring-like member a radial movement while it is rotating, a plurality of fins connected to said central ring-like member and dividing the annular space between said ring-like

members into discoidal chambers, said fins being capable of a radial movement, means for preventing the escape



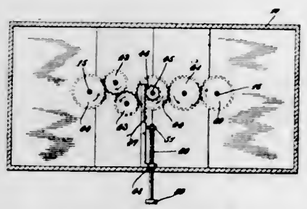
of fluid from the sides of the said ring-like members, and means for conducting a fluid to and from the said discoidal chambers.

1,338,266. WASH-HANGER. JOSEPH TRACH, Buchanan, Saskatchewan, Canada. Filed Nov. 6, 1919. Serial No. 336,047. 3 Claims. (Cl. 68—3.)



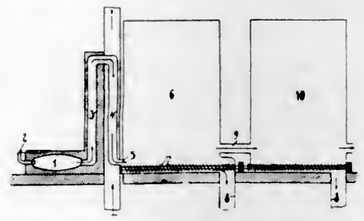
1. A clothes hanger comprising a pole, a clothesline carried by said pole, a base adapted to be fixed on a suitable wall, said base having on its face a shortened projection provided with an aperture parallel to the face thereof, a bolt slidable in said aperture and having a flattened and widened extension projecting over the face of the base at the end of the said projection, said extension having a transverse aperture through which the said pole passes, and a cross-bar upon the inner end of the said pole of a thickness equal to the space between the said extension and the said base.

1,338,267. FRAME-ACTUATING DEVICE. JOSEPH URBANEK, Chicago, Ill. Filed Dec. 13, 1918. Serial No. 266,573. 1 Claim. (Cl. 45—99.)



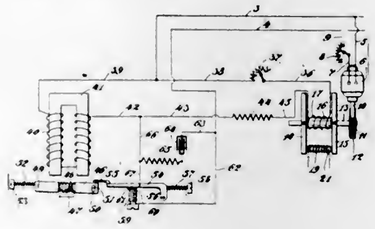
In a multiple mirror, the combination of a supporting frame with two upright spindles, mirrors on said spindles, spur gears at the lower ends of said spindles, a stem or shaft centrally located between said spindles, a central gear on said stem, gears intermediate said central gear and said spur gear, said central gear adapted to communicate motion to said intermediate gears, a pinion on said central shaft, a rack in mesh with said pinion, an angular off-set at the end of said rack, a spindle slidably mounted in said frame parallel to said rack to which the angular off-set of the said rack is secured, a guide for the inner end of said spindle, and an operating knob on the outer end of said spindle for pressing the same and said rack inwardly for the actuation of said pinion and gears to simultaneously turn the mirrors in and out of any angular position to each other.

1,338,268. PLANT FOR MANUFACTURING LAMP-BLACK. EDUARD VIERTEL, Berlin-Treptow, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Aug. 17, 1915. Serial No. 47,014. 5 Claims. (Cl. 134—66.)



5. In a lamp black manufacturing plant in combination a combustion furnace, a lead chamber, a flue connecting said chamber to said furnace, said flue comprising an ascending branch adjacent to the furnace and a descending branch adjacent to the chamber, and means for cooling the descending branch of said flue.

1,338,269. MULTIPHASE-SLOW-SINE-WAVE PRODUCER. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed Feb. 6, 1919. Serial No. 275,410. 10 Claims. (Cl. 175—357.)



4. In a device of the character described, the combination of a multiphase transformer for producing multiphase secondary currents, said transformer being provided with a primary winding, and a synchronous interrupter in circuit with said primary winding for the purpose of breaking the primary circuit.

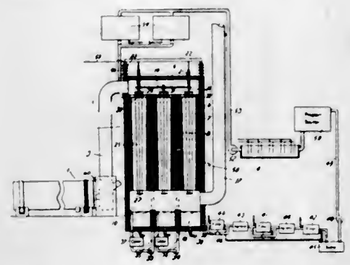
1,338,270. SHOCK-ABSORBER. PAUL S. WEAVER, Lebanon, Pa. Filed May 24, 1919. Serial No. 299,422. 2 Claims. (Cl. 267—17.)



1. In a shock absorber for vehicles, the combination with the chassis and semi-elliptical springs having one end connected to the chassis, of a toggle connection between the

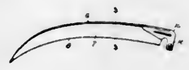
opposite end of each spring and said chassis, and including a lever pivotally connected with the adjacent end of said spring, resilient means having connection with the free end of said lever and adapted to absorb the shock incident to a predetermined weight, and a leaf spring connected with said lever and arranged beneath the chassis to absorb the shock of any excessive weight.

1,338,271. PROCESS FOR RECOVERY OF METALS FROM THEIR ORES. HARRY V. WELCH, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 11, 1917. Serial No. 185,778. 5 Claims. (Cl. 204—15.)



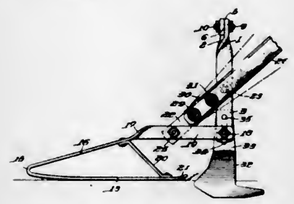
1. The process of recovering a metal from its ores, which consists in subjecting the ore to the action of heat and a suitable reagent to produce a fume containing said metal passing the gases containing said fume in contact with a body of liquid capable of dissolving said metal in the fume, precipitating said fume into said body of liquid by the action of an electrical field, subjecting the solution resulting from the action of said liquid on the fume, to treatment for separating the said metal therefrom and utilizing the remaining liquid in cyclic repetition of the process to act on a fresh quantity of fume.

1,338,272. SCYTHE. WARREN WORTHINGTON, New York, N. Y. Filed Mar. 1, 1919. Serial No. 279,985. 1 Claim. (Cl. 56—326.)



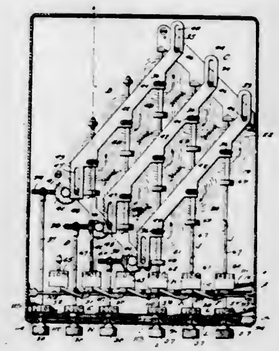
A scythe blade comprising a thin steel plate of uniform thickness having one edge formed as a cutting edge and its opposite edge disposed at a right angle to the web and then extending in a plane substantially parallel to the web to form a stiffening back rib.

1,338,273. AGRICULTURAL IMPLEMENT. SAMUEL L. ALLEN, Moorestown, N. J.; Sarah H. Allen, Charles J. Allen, Elizabeth R. Allen, Susan J. Allen, and Emily Allen Elfreth executors of said Samuel L. Allen, deceased. Filed Feb. 5, 1917. Serial No. 146,654. 3 Claims. (Cl. 97—41.)



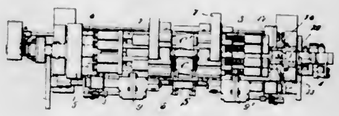
1. An implement of the class described, comprising frame members having depending legs, a support for said frame members, provided with slide runners, and connected with said legs, and a brace bar obliquely connecting said legs and supports to form a rigid structure.

1,338,274. MULTIPLYING-MACHINE. GEORGE M. BACON. Salt Lake City, Utah., Filed Nov. 2, 1916. Serial No. 129,176. 8 Claims. (Cl. 235—73.)



1. In a multiplying machine, the combination of a plurality of differential wheels, each wheel comprising a plurality of gears concentric with the axis thereof, means for simultaneously rotating all of said wheels in accordance with a digit of the multiplier, a corresponding plurality of pinions adapted for radial movement with respect to said wheels to coöperate with the gears thereon, shafts upon which said pinions are slidably mounted, said shafts being adapted to actuate product dials, and means for moving said pinions, relative to the respective differential wheels in accordance with the digits of the multiplicand.

1,338,275. AUTOMATIC TURNING-MACHINE. FRANK H. BANCROFT, Gardner, Mass., assignor to P. Derby & Company, Gardner, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1918. Serial No. 259,102. 7 Claims. (Cl. 142—5.)

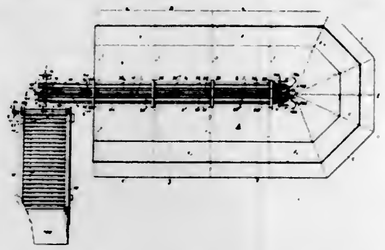


1. In a turning machine comprising a carrier, a plurality of opposed head and tail spindles arranged in a circular row on said carrier, means for rotating said carrier about an axis concentric with said circular row of spindles and for rotating the pieces of stock about the respective spindle axes, the combination with one set of spindles of a spring plunger for forcing the spindles into pieces of stock, the spring plunger being mounted approximately in alinement with one position of the spindles and being arranged yieldingly to engage the spindles for a limited period after stock has been supplied to the spindles to force the spindles into the stock.

1,338,276. FRUIT GRADER AND SIZER. JOHN F. BARGHAUSEN, Washington, D. C. Filed Feb. 10, 1920. Serial No. 357,744. 4 Claims. (Cl. 130—32.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. In a fruit grading and sizing apparatus, a pair of associated normally stationary grooved guides parallel for a portion of their length and diverging longitudinally for the remainder of their length, ropes movable longitudinally on said guides, means to operate said ropes, receptacles to receive different grades of fruit located

beneath the ropes, and one of said guides being shiftable relative to the other, shiftable pulleys for said shiftable guide, means for shifting said shiftable guide and said



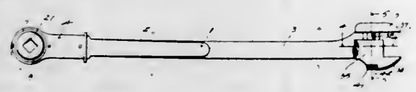
shiftable pulleys both in the parallel and the diverging portions of said guides, means for keeping in a taut condition the said ropes, and means for disposing of large fruit that passes beyond the far end of said guides.

1,338,277. CLOTHES-WASHER. EDWARD BEATTY, Brooklyn, N. Y. Filed Sept. 2, 1919. Serial No. 321,017. 3 Claims. (Cl. 68—5.)



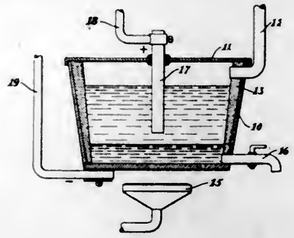
1. A device of the class described including a handle, a hollow flexible body connected at its upper end to the handle and open at its lower end, means for holding the body distended radially, and means connected to the lower open end of the body and movable relative to the handle for distending the body longitudinally and for collapsing the body to position with its upper and lower ends in substantially the same plane.

1,338,278. WRENCH. ELIAS BLUM, Oakland, Calif., assignor of one-half to Carl M. Markstedt, Oakland, Calif. Filed June 13, 1917. Serial No. 174,539. 1 Claim. (Cl. 81—177.)



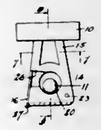
In a tool structure, a pair of oppositely directed wrenches, each of said wrenches provided with a relatively long shank and one of said wrenches having a relatively large head and extending parallel with the shank for a short distance and projecting laterally from one face thereof, said head having an inwardly extending opening formed therein arranged parallel with and opening out flush with the shank, the end portion of the shank of the other wrench fitting snugly into said opening and the shanks of the wrenches being disposed in abutting relation, laterally projecting shoulders formed on the shank of the last mentioned wrench for engagement with the outer face of the head on the opposite sides of the opening and means extending through the head, openings and shanks for detachably securing the shanks together, so as to prevent independent movements thereof, the two wrenches being thus secured together so as to form a unitary structure.

1,338,279. COMPOSITION OF MATTER AND PROCESS OF MAKING THE SAME. HENRY BLUMENBERG, Jr., Los Angeles, Calif., assignor to Frieda Blumenberg, New York, N. Y. Filed Feb. 23, 1917. Serial No. 150,580. 1 Claim. (Cl. 204—2.)



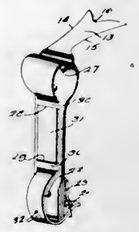
A method of making an alloy, comprising a metal and an element of the nitrogen group, excepting bismuth and nitrogen, and capable, on contact with water, of generating a volatile hybrid of said element, comprising fusing said metal and a compound of said element and passing an electric current of low voltage through the fused mass to produce said alloy.

1,338,280. SAFETY-CATCH FOR BROOCHES. BLAISE BOCCACINI, New York, N. Y. Filed May 16, 1919. Serial No. 297,527. 3 Claims. (Cl. 24—157.)



3. The herein described safety catch for brooches, the same comprising a pedestal composed of two flat wing portions connected together along adjacent edges and having at the ends thereof a pair of pin seats, said seats being spaced from the bending line portion to admit the pin to pass into or out of the seats, said seat portions being flexible and movable toward and from each other, and a keeper pivoted between said flexible seat portions and having means providing for the snapping of the keeper into locking position in coöperation with said seat portions.

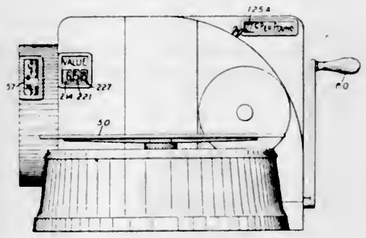
1,338,281. VINE-CUTTER. FRED J. BOSSERT and CHARLES T. BOSSERT, Selma, Calif. Filed Oct. 3, 1919. Serial No. 328,167. 3 Claims. (Cl. 30—24.)



1. A vine cutter comprising a plate, a blade offset therefrom and angularly disposed thereto longitudinally and

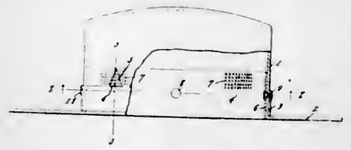
transversely, a covering of leather arranged on one side of said plate, extensions formed on each side of said leather covering, said extensions being arranged over the opposite side of said plate and secured thereto, a strap formed on one end of said covering, said strap being adapted to overlie the body portion of the covering, means for forming loops between the body portion and the strap, and means for securing the free end of said strap.

1,338,282. VALUE PRINTING AND INDICATING DEVICE FOR SCALES. EDITH E. L. BOYER and FREDERICK G. L. BOYER, Dayton, Ohio. Filed July 24, 1915. Serial No. 41,667. 70 Claims. (Cl. 235—58.)



1. In a computing device, a member arranged to move various distances, a given distance of movement thereof representing a unit of weight, and apparatus normally dissociated from said member, thereby eliminating all tendency to retard or otherwise affect the movement of said member, said apparatus comprising: a movable element adapted to associate with and have the extent of its movement controlled by said member, a given extent of movement thereof representing the price of a quantity whose weight is unity, its total movement representing the product of said price and the weight represented by the controlling member; means for printing the product and means for preventing association of the apparatus with the controlling member while the latter is in motion.

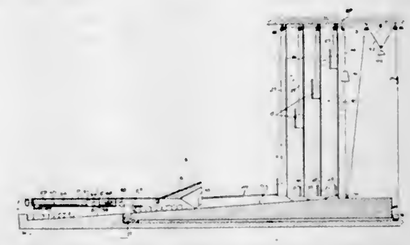
1,338,283. HAT. RICHARD BRADLEY, Swansea, Ariz. Filed July 16, 1919. Serial No. 311,353. 4 Claims. (Cl. 2—114.)



1. A hat comprising a crown and a sweat band having ventilating openings; and means for pivoting the band to the crown at spaced points, the band being reversible on an axis passing said points to bring the openings of the band and the crown into and out of registration.

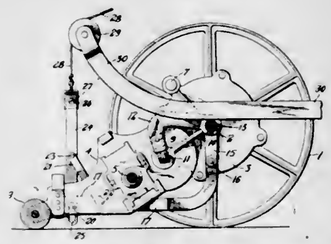
1,338,284. BOWLING-ALLEY. WALTER M. BRADLEY, New Haven, Conn. Filed Nov. 22, 1919. Serial No. 339,867. 10 Claims. (Cl. 46—59.)

1. A bowling alley comprising a floor with an inclined section, a series of cages suspended at the rear end of the floor, means for raising said cages, said cages formed with openings in their front walls into which a ball may



enter and whereby under the weight of the ball, said cages will descend.

1,338,285. LAWN-MOWER STRUCTURE. WILLIAM P. M. BRAUN, Philadelphia, Pa., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 17, 1919. Serial No. 304,850. 9 Claims. (Cl. 56—7.)



1. Lawn-mower structure comprising a ground engaging wheel, cutter mechanism driven thereby, a support for said cutter mechanism, means for restraining said support against movement with respect to the ground, means for lifting said support from the ground, a lost motion connection between said support and said lifting means, and a member connecting said lifting means with said restraining means.

9. Lawn mower structure comprising an axle held against rotation, cutter mechanism, a support for said cutter mechanism pivoted on said axle, a projection in fixed position on said support, and means on said axle for engaging said projection for holding said support against rotary motion with respect to said axle.

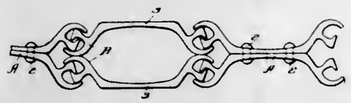
1,338,286. DRESSING FOR LEATHER AND LEATHER SUBSTITUTES AND PROCESS OF MAKING THE SAME. ALFRED R. CALDWELL, Pasadena, Calif. Filed Aug. 4, 1919. Serial No. 315,334. 6 Claims. (Cl. 134—17.)

3. A quickly drying liquid dressing for leather and the like consisting of the following ingredients in the proportions stated: asphaltum—1 gallon, benzin—1 gallon, rubber cement—1 quart, black pigment—1 pound, Japan drier—1 pint, and beeswax—½ pound.

1,338,287. METAL SHEET-PILING SECTION AND WALL. CLOUD CLIFFORD CONKLING, Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Filed July 1, 1912, Serial No. 707,006. Renewed Oct. 6, 1919. Serial No. 328,926. 6 Claims. (Cl. 189—22.5.)

1. A wall of metal sheet piling comprising two different forms of elements alternately arranged, one being a composite section formed of piling sections having on their

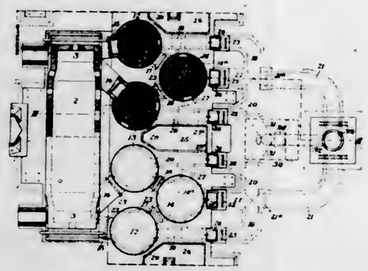
edges interlocking members and having their webs arched, the webs of said sections having their convex sides opposed and rivets uniting the webs, the second section consisting of two arched sections similar to the half sections used in the preceding but set reversely with the arched webs arranged outwardly and the interlocking elements in contact to leave a main pocket between the two simple sections.



3. A double wall of metal sheet piling comprising alternate elements, one being a composite element formed of piling sections secured together, each section having on its edges interlocking members adapted for independent interlocking engagement with members of an adjacent section and the second element consisting of two piling sections each having interlocking members on its edges and secured by interlocking engagement with the sections of the first element, substantially as described.

6. A double wall of metal sheet piling comprising two different forms of elements alternately arranged, one being a composite element formed of piling sections having on their edges interlocking flanges and having the webs arched and secured together by rivets or bolts, the second element consisting of two arched sections similar to the half sections of the first element and secured by interlocking with the sections of the first element and the piling sections of the alternate elements being set reversely, one with the convex sides of the arched web opposed and the other having the web portions spaced to form a pocket therebetween, substantially as described.

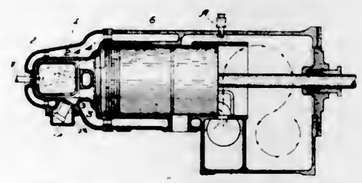
1,338,288. OPEN-HEARTH FURNACE. JOHN C. CROMWELL, Cleveland, Ohio, and WILLIAM M. MEHLHORN, Pottsville, Pa. Filed June 26, 1917. Serial No. 176,959. 12 Claims. (Cl. 158—7.5.)



1. An open hearth furnace having three regenerator units for each end thereof, flue connections, and controlling means for said connections, said connections and controlling means being constructed and arranged to permit either one or both of two of said units to be connected in series with the third unit, or to be connected parallel with each other to the exclusion of the said unit, substantially as described.

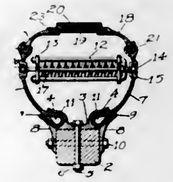
1,338,289. OIL-ENGINE. EDGAR H. CROSSEN, Franklin, Pa. Original application filed June 17, 1918, Serial No. 240,408. Divided and this application filed May 16, 1919. Serial No. 297,684. 5 Claims. (Cl. 123—32.)

4. An oil engine, of the horizontal type, comprising among its elements, in combination, a combustion chamber arranged to have substantially all of its superficial area subjected to the heat of combustion, means for injecting fuel-oil into said chamber from its rearward portion and across the same against its forward wall, an expansion chamber, a water-jacketed wall interposed between said



chambers, and an inter-communicating port for said chambers, which intersects the lower peripheral wall of said combustion chamber for the purposes specified.

1,338,290. TIRE FOR MOTOR-VEHICLES. JOHN JEREMIAH DANA, Savannah, Ga. Filed Jan. 31, 1919. Serial No. 274,227. 5 Claims. (Cl. 152—8.)



1. A tire of the character specified comprising a rim, a plurality of series of housing plates, the series being arranged at opposite sides of the wheel and having a limited hinge connection with the rim, a series of casing plates for each series of housing plates and having a limited hinge connection with the outer edges of the housing plates, a tread supporting ring, the casing plates having slots for receiving the edges of the ring, and a yielding connection between each pair of housing plates.

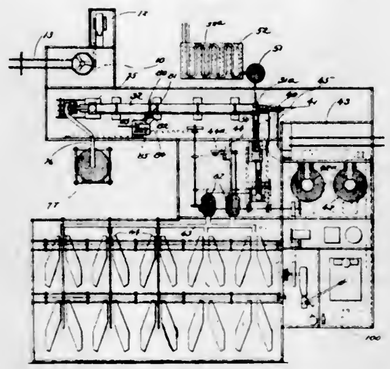
1,338,291. GARMENT-TRIMMING MACHINE. SAMUEL ELMAN, Syracuse, N. Y. Filed Aug. 9, 1917. Serial No. 185,289. 2 Claims. (Cl. 164—45.)



1. The combination of a support for garment, a marker arranged transversely of the support in position to be located beneath the garment, and a second marker carried by the support and movable toward and from the support and being in line with the former marker, the latter marker being also movable transversely of the support, substantially as and for the purpose set forth.

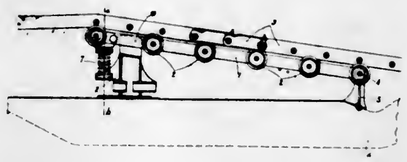
2. In a machine for trimming trouser legs, the combination of a support upon which the trousers are laid, a gage extending lengthwise of one edge of the support with which the edges of the trouser legs are engaged, a knife extending crosswise of one end of the support and movable toward and from the support, a marker extending crosswise of the support in a direction parallel to the knife and spaced apart from the knife, and a pressure foot operable with the knife in advance of the same to engage the trousers legs and hold the same from movement relatively to the marker while the ends thereof are being cut with the knife, substantially as and for the purpose described.

1,338,292. APPARATUS FOR DESULFURIZING AND TREATING ORE. BENJAMIN Q. P. FOSS, San Francisco, Calif., assignor to The Foss International Ore Reduction Company, San Francisco, Calif., a Corporation of Arizona. Filed July 22, 1914. Serial No. 852,398. 19 Claims. (Cl. 266—20.)



1. In apparatus for treating ore, means to heat the ore in a short space of time to a temperature sufficient to dry the same and remove the volatilizable constituents contained therein, means for maintaining the ore in motion during the contact thereof with said heating means, and means to supply refrigerated fluid to said ore immediately after said heating whereby said ore will be reduced to a friable state.

1,338,293. DRIVING-CHAIN. ERNEST FUCHS, Paris, France, assignor to Louis Renault, Billancourt, France. Filed Mar. 23, 1918. Serial No. 224,260. 1 Claim. (Cl. 64—5.)



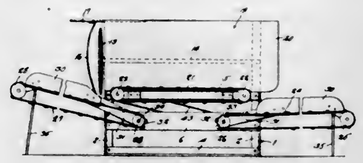
The combination with an endless driving chain having a lower ground engaging reach and an upper idle reach, of a frame pivoted at one of its ends, means for urging the opposite end of the frame toward the upper idle reach of the chain, means for guiding the last mentioned end of the frame in its movement, and a plurality of rollers carried by the frame and bearing on the chain at spaced intervals.

1,338,294. ELECTRICAL-HEATER RESISTANCE ELEMENT. WILLIAM E. GARDNER, Pittsburgh, Pa., assignor of one-third to Henry Clay Black, Ben Avon, Pa., and one-third to Julius Jacob, Pittsburgh, Pa. Filed July 7, 1919. Serial No. 309,133. 2 Claims. (Cl. 219—76.)

1. An electrical resistance element consisting of an intimate mixture of finely divided dry carbon, and finely divided bone ash.

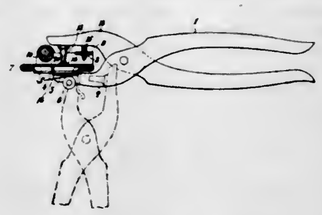
1,338,295. KAFIR-HEADER. WILBUR M. GARRETT, Lookeba, Okla. Filed Aug. 22, 1919. Serial No. 319,197. 5 Claims. (Cl. 146—11.)

1. In a device of the class described, a frame, a cutter, a conveyer mounted beneath the cutter for receiving material therefrom, a second conveyer onto which the first mentioned conveyer discharges and a third conveyer located adjacent the cutter and disposed opposite the first



mentioned conveyer, the second and third mentioned conveyers being pivotally and detachably connected to the frame.

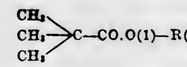
1,338,296. PUNCH FOR PERFORATING BELTS. MAGDELIN CHRISTIAN GLEERUP-MÖLLER, Copenhagen, Denmark. Filed July 9, 1919. Serial No. 309,720. 8 Claims. (Cl. 164—83.)



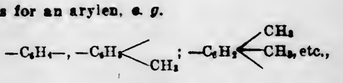
1. In a punch, the combination with a pair of relatively movable jaws, of an article supporting member movable on one of said jaws, and means for predetermining the spacing of holes punched in said article by the punch.

1,338,297. TRIMETHYL-ACETYL-SALICYLIC-ACID COMPOUNDS. WILHELM GRÜTTNIEN, Elberfeld, Germany, assignor to Alien Property Custodian. Filed June 27, 1919. Serial No. 307,215. 2 Claims. (Cl. 23—24.)

1. The herein-described trimethylacetylsalicylic acid compounds having most probably the following general formula:



R stands for an arylen, e. g.

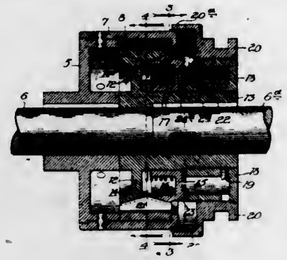


being generally crystallizing solid whitish compounds which have proved to be valuable antirheumatics, analgetics and diuretics; forming salts with metals which salts retain the valuable therapeutic properties exhibited by the free acids, substantially as described.

1,338,298. FRICTION-CLUTCH. CLIFFORD OSCAR HANSEN, Tiffin, Ohio. Filed Apr. 26, 1919. Serial No. 292,876. 3 Claims. (Cl. 192—7.)

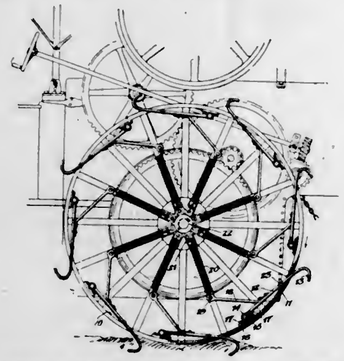
2. In a friction-clutch, the combination of a cylinder provided with an inner friction-surface, an expansion-ring in the cylinder having its inner surface beveled to converge toward its circumferential center, clutch-members within said ring provided with beveled outer surfaces to engage, respectively, said beveled ring-surfaces, the outer clutch-member having an annular shoulder, an abutment connected with the inner clutch-member and provided with

beveled recesses, wedges in said recesses and bodily slidable downwardly and inwardly therein and engaging said shoulder for confining the wedges in the recesses, and a col-



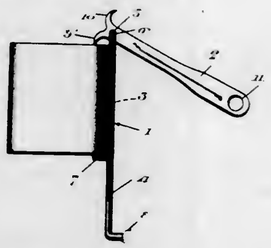
lar shiftably supported on said abutment and into the path of which the wedges project in the unshipped condition of the clutch.

1,338,299. TRACTION-WHEEL. OLE R. HANSON, Cadogan, Alberta, Canada. Filed Jan. 4, 1919. Serial No. 269,724. 3 Claims. (Cl. 21—212.)



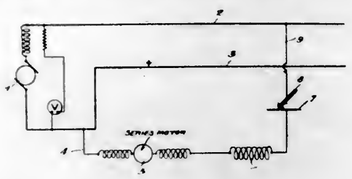
1. A traction wheel having an annular series of gripping arms disposed in a plane laterally beyond one side of the tread wheel, each of said gripping arms being pivoted to the wheel at one end and having a terminal hook at its opposite end, a lever projecting from each of said arms intermediate the ends thereof, and a spring for each of the arms connected at one end to the lever thereof and at the opposite end to the wheel.

1,338,300. CAN-PUNCH. JAMES E. HAWKINS, Glendale, Calif. Filed Oct. 27, 1919. Serial No. 333,485. 6 Claims. (Cl. 164—119.)



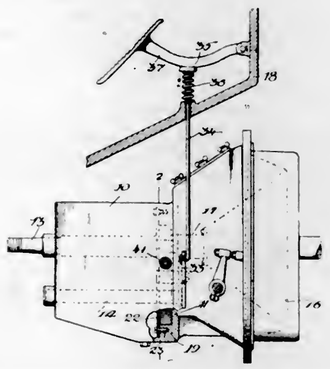
1. A can punch comprising a can-engaging member having opposite can-engaging hooks, and a lever pivotally connected near one end to said member and having opposite prongs to penetrate the can when said lever is swung relatively to said member.

1,338,301. ARC-CURRENT REGULATOR. JOSEPH ANDREW HOLIFIELD, Mobile, Ala. Filed June 18, 1919. Serial No. 304,988. 6 Claims. (Cl. 219—15.)



6. In an electrical arc arcing system, the combination with a source of electromotive force and a normally open arcing circuit branched thereon and adapted to be closed by the contact of the electrode with the work, and a series motor in the arcing circuit, the counter electromotive force of the series motor opposing the electromotive force of the source and maintaining the amperage in the arcing circuit approximately constant.

1,338,302. FLUID-BRAKE FOR MOTOR-VEHICLES. FREDRIK G. HULTENHEIM, San Francisco, Calif. Filed May 8, 1918. Serial No. 233,214. 5 Claims. (Cl. 188—92.)

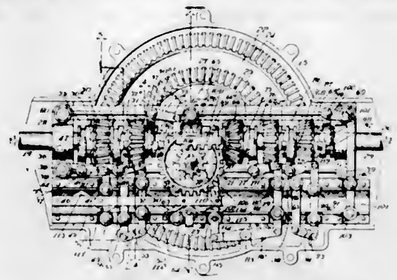


1. The combination with a motor vehicle transmission and clutch shaft, of a fluid brake for the vehicle including a pump case formed from a wall of the transmission case and provided with a pump chamber communicating with the transmission case, a pump gear carried by the clutch shaft and rotatable within the pump chamber, a pump gear carried by the countershaft of the transmission and mounted within the pump chamber to coöperate with the said first mentioned pump gear for normally maintaining a flow of lubricant from the transmission case through the pump chamber, the said gears being adapted to have operative connection with the propeller shaft of the vehicle, and means for checking the flow of lubricant between the pump chamber and transmission case.

1,338,303. TRANSMISSION MECHANISM. IRVIN HUPP, Chicago, Ill., assignor to Flexo Motive Corporation, a Corporation of Delaware. Filed Mar. 17, 1917, Serial No. 155,572. Renewed July 21, 1919. Serial No. 312,271. 27 Claims. (Cl. 74—59.)

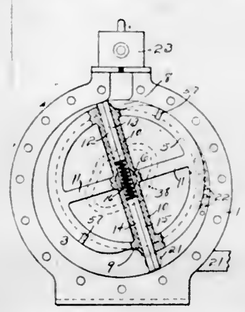
1. Transmission mechanism of the claas described, comprising, in combination with a power shaft and a driven shaft, a series of concentric gears, a plurality of pinions intermediate of both shafts and said gears whereby power is transmitted from the power shaft to said concentric

gears at different speeds and from the latter to a portion of said pinions, means whereby the desired pinions and the shafts are brought into operative relation with each



other and power transmitted from the power shaft, at the predetermined speed, through said pinions and the desired gears, to the driven shaft, and an operating member common to all of said means.

1,338,304. ROTARY ENGINE. CHARLIE Q. JEFFERIES, Fort Worth, Tex. Filed May 1, 1919. Serial No. 293,941. 3 Claims. (Cl. 123—16.)



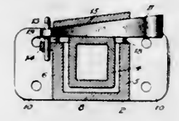
1. An internal combustion engine comprising a cylinder having a compression chamber therein provided with intake and exhaust ports, a power transmitting shaft eccentrically mounted in said chamber, a rotor mounted on said shaft for driving the same, beveled piston slides radially mounted in said rotor and adapted to extend out of the periphery of said rotor, a spring operating through said shaft for projecting said slides radially outward, said rotor having recesses on opposite sides at the rear of said piston slides, means for supplying explosive mixture to said recesses and chamber, and means for igniting the explosive mixture.

1,338,305. ROTARY CUTTING DEVICE FOR RAZORS. SIDNEY P. JONES, Waco, Tex. Filed Dec. 18, 1918. Serial No. 267,251. 5 Claims. (Cl. 30—12.)



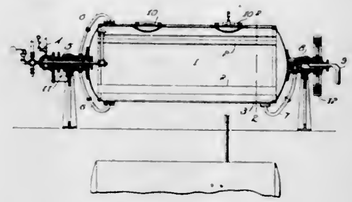
1. A razor including a head having a cylindrical outer surface adapted to rotate in contact with the skin and provided with a plurality of pockets opening through the cylindrical surface, arcuate ribs extending across the pockets and having their outer faces concentric with the cylindrical surface of the head to support the skin, said ribs having recesses adjacent the ends thereof, blade seats between the pockets, blades on said seats having their edges exposed slightly beyond the cylindrical surface of the head and lying beyond said recesses, means to clamp the blades on said seats and means to rotate the head.

1,338,306. CAR-COUPLING. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 28, 1919. Serial No. 300,347. 12 Claims. (Cl. 213—42.)



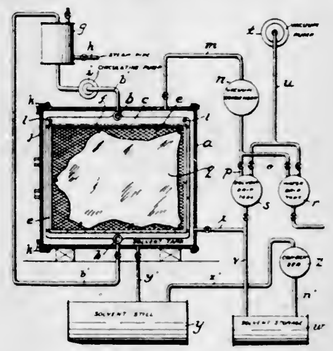
1. In a device of the character indicated, the combination with a coupler supporting member, of a coupler connected thereto, and a slidable wedge for controlling the height of the head of said coupler with respect to said supporting member.

1,338,307. ART OF TANNING. CHARLES CLEMENT KROUSE, Williamsport, Pa. Substitute for application Serial No. 170,084, filed May 31, 1917, a renewal of application No. 20,877, filed Apr. 12, 1915. This application filed June 20, 1919. Serial No. 305,460. 8 Claims. (Cl. 87—6.)



1. The herein described method of treating raw hides and skins, containing a high percentage of fat, preparatory to tanning, consisting in adding to the hides and skins sufficient quantity of grease solvent to dissolve the grease so that when the solvent is withdrawn it carries enough of the grease with it to bring the skins into a condition for tanning to produce strong leather, substantially as described.

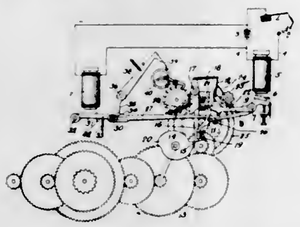
1,338,308. DEGREASING APPARATUS. CHARLES CLEMENT KROUSE, Williamsport, Pa. Filed Jan. 27, 1920. Serial No. 354,399. 1 Claim. (Cl. 87—6.)



Apparatus for degreasing hides and skins comprising a closed solution tank having a closure at one side, parallel hollow spaced heating elements located in said tank with

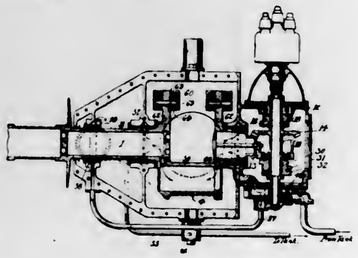
means for supplying heating fluid thereto, guides arranged between said heating elements, reticulated supporting frames for the hides and skins to which said hides and skins are clamped, liquid supply and withdrawal means connected with said tank, and vacuum producing means connected with said tank.

1,338,309. SYNCHRONIZING-CLOCK. CLINTON E. LARRABEE, Binghamton, N. Y., assignor to International Time Recording Company of New York, a Corporation of New York. Filed July 10, 1919. Serial No. 309,950. 6 Claims. (Cl. 58—24.)



1. In a clock syuchronizing system the combination with a master clock adapted to send momentary impulses to line at given periods, of a secondary clock capable of a normal rate, an accelerated rate and a retarded rate, of means for effecting the acceleration or retardation, means for bringing into action the accelerating or the retarding means, an electro-magnet in the line for controlling the operation of such means, a cam and a cam wiper coöperating with said magnet in operating said means.

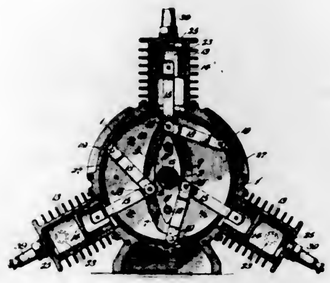
1,338,310. LUBRICATING SYSTEM FOR HIGH-SPEED ENGINES. CHARLES L. LAWRANCE, Bay Shore, N. Y. Filed Sept. 6, 1918. Serial No. 252,845. 5 Claims. (Cl. 184—6.)



3. The combination in a high speed engine having a crank case, of a hollow crank, and bearings which receive oil through the interior of the crank and discharge lubricating oil into said case, a pump connected to deliver oil to the interior of said crank shaft and adjusted to deliver an excess of cooling oil above that required for lubricating the bearings supplied through said crank shaft, and a cooler connected to receive said excess oil from said crank shaft.

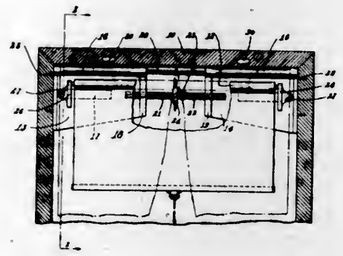
1,338,311. ENGINE. CHESTER S. LEONARD, Lansdowne, and RUDOLPH H. BECK and RUDOLPH J. BECK, Philadelphia, Pa. Filed Aug. 2, 1916. Serial No. 112,643. 2 Claims. (Cl. 123—55.)

1. In an engine, the combination of a housing, a shaft journaled therein, equidistant cylinders fixed to the housing and spaced apart about the shaft, pistons movable in said cylinders, means for actuating said pistons, piston rods connected to the pistons and extending within the housing, links connected at one end to the inner portions of the piston rods and pivotally connected at their opposite ends to the housing, anti-friction rollers connected with the inner portions of the piston rods, spaced disks, at opposite sides of the rods and links, fixed on the shaft



and having elliptical cam grooves in which said rollers are disposed, outer disks fixed to the shaft and arranged against the outer sides of the cam disks and having inwardly-extending retaining flanges surrounding the cam disks, and transverse means connecting the several cam disks and outer disks.

1,338,312. CURTAIN-HANGER. ANDREW LEWANDOWSKY, Lansing, Mich. Filed May 23, 1919. Serial No. 299,231. 1 Claim. (Cl. 150—28.)

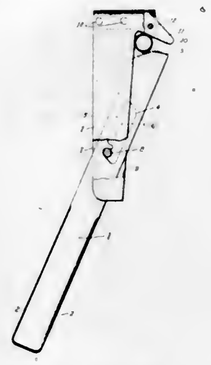


A device of the character described comprising a pair of barrels, a rod extending with its ends into said barrels, thumb screws for holding said rod in its adjusted positions within said barrels, a pair of plates provided with spikes, said barrels formed with said plates, outstanding flanges on said plates, a screw threaded adjusting bar engaging said flanges, and a hand wheel centrally secured to said bar adapted to rotate the same for pressing the spikes of said plates into the woodwork of a window frame, substantially as described and for the purpose set forth.

1,338,313. WRENCH. WILLIAM LOEVEN, Chicago, Ill. Filed Oct. 10, 1919. Serial No. 329,699. 2 Claims. (Cl. 81—98.)

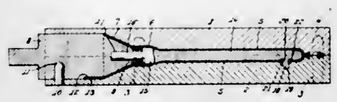
1. A wrench comprising a handle element having a slot intermediate its ends one edge whereof is provided with a plurality of pockets and one end of which handle element is provided with an eccentrically centered arc-shaped serrated surface, a member coacting with said handle element consisting of a blank folded to form parallel arms between which said handle element is disposed, a pintle extending between said arms and through the slot in said

handle element, a laterally extended jaw having an inclined face produced adjacent the bend of said blank, and



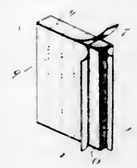
lateral projections extending from the opposite ends of said arms adapted to limit the relative movement of said handle element.

1,338,314. METHOD FOR MANUFACTURING RUBBER HOT-WATER BOTTLES. MELVIN S. LOWER, Barberton, Ohio. Filed May 22, 1919. Serial No. 298,900. 8 Claims. (Cl. 18—59.)



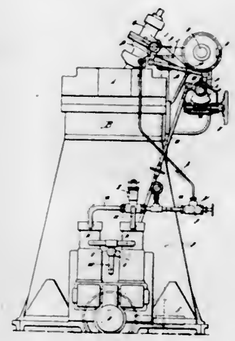
1. The method of making rubber hot-water bottles, which consists in vulcanizing the body, neck and funnel in an integral structure around a core and at the same time forming an opening in one of the parallel sides of said body remote from the edges of the latter, removing said core through said opening, inserting a supporting element within said body in underlying relation to said opening, introducing a formed plug of rubber in said opening in seated relation to said element and in interlocking relation to said body, vulcanizing said plug in the recited position for closing said opening, and finally withdrawing said element through the neck of the bottle.

1,338,315. SANITARY PACKAGE OF INDIVIDUAL SEALED CARTONS. JOHN W. MCAULIFFE, Pelham, N. Y. Filed Mar. 28, 1919. Serial No. 285,849. 4 Claims. (Cl. 206—46.)



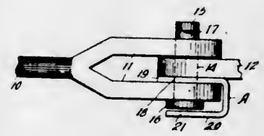
1. A package comprising a series of sealed closed cartons lying side by side to form a single broad flat layer, a label extending around four of the sides of said layer including the two broad faces, and additional labels extending across the remaining two sides of said layer, each label being pasted to each of the cartons, and each label being weakened along lines in the planes of contact between the cartons.

1,338,316. FUEL-INJECTION DEVICE FOR INTERNAL-COMBUSTION ENGINES. JAMES MCKECHNIE, Barrow-in-Furness, England, assignor to Vickers Limited, Westminster, England. Filed Dec. 1, 1916. Serial No. 134,282. 3 Claims. (Cl. 123—139.)



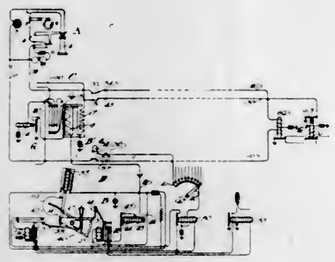
3. In a multi-cylinder internal combustion engine, a single liquid fuel pump set adapted to compress the fuel to the pressure of injection and to force it into the cylinders, a relief valve at the discharge side of the pump adapted to release the fuel above a predetermined pressure so as to maintain the fuel injection pressure constant, means for regulating the supply of fuel to the pump, a fuel supply pipe from the said pump set to all the engine cylinders, a liquid fuel injection valve for each cylinder adapted to admit fuel without the use of compressed air, a valve lever and cam device for each cylinder, which device comprises an adjustable valve lever, a valve cam and means for adjusting the said valve lever both radially and circumferentially of the cam to vary the duration of opening of the valve and time its point of opening and a control device connected both to the valve lever adjustment and to the fuel admission regulating means of the pump so as to effect simultaneous adjustment of the fuel valve lever and the fuel supply to the pump.

1,338,317. SAFETY DEVICE FOR BRAKE-BEAMS AND THE LIKE. JOHN MCMULLEN, Buffalo, N. Y. Filed Oct. 9, 1916. Serial No. 124,665. 2 Claims. (Cl. 85—5.)



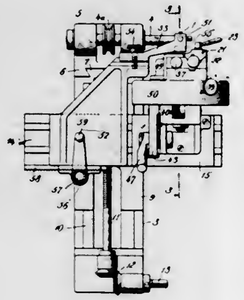
1. In a device of the character described, the combination with a member having a forked end, a second member having one end located within said forked end, all of said ends being perforated, and a headed pin extending through said perforations, of a retainer for said pin comprising a plate of substantially U shape, one arm of said plate being perforated and located between the end of the second named member and the fork of the first named member, the other arm of said plate being disposed over and adjacent the headed end of the pin.

1,338,318. AUTOMATIC TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1916. Serial No. 137,153. 17 Claims. (Cl. 179—18.)



1. In a telephone system, subscribers' lines, trunk lines, an automatic switch for interconnecting a plurality of said lines, means for initiating the operation of said switch, and means common to said subscribers' lines for delaying the completion of the connection.

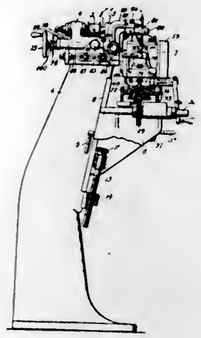
1,338,319. CUTTER-GRINDING MACHINE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 30, 1918. Serial No. 225,621. 35 Claims. (Cl. 51—7.)



1. In a cutter grinding machine, the combination of a rotatable grinding wheel having a convex grinding face, a cutter support for holding a cutter in engagement with the face of the wheel and for moving it relatively to the wheel to effect grinding along a line which is predetermined and normally fixed notwithstanding differences in the size of the cutter, a dressing tool movable along the said fixed line, and means for adjusting the wheel into engagement with the tool whereby its grinding face is always maintained at the said line nothwithstanding wear.

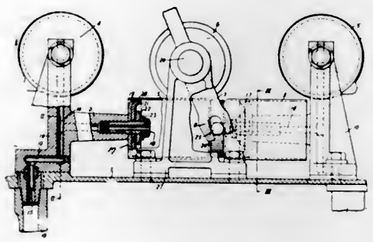
1,338,320. CUTTER-GRINDING MACHINE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 13, 1918. Serial No. 253,871. 35 Claims. (Cl. 51—7.)

1. The combination in a cutter grinding machine, of a rotatable grinding wheel having a conical convex grinding face, a cutter holder serving to present the front faces of the cutter teeth to the said grinding face, and means for effecting relative adjustment between the wheel and the



cutter support along lines parallel to the line of engagement of the grinding face with the tooth faces.

1,338,321. CONTROL APPARATUS. FERDINAND G. MOARD, Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 3, 1916. Serial No. 107,453. 4 Claims. (Cl. 121—38.)



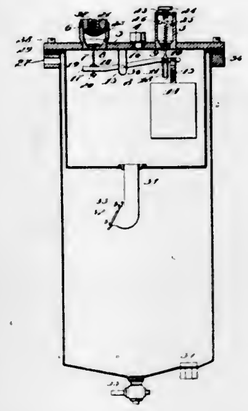
1. In a piston device, a piston stem, a piston head and a hollow bolt securing said head to said stem, said head comprising a base washer, a gasket, an expander, a follow washer and a lock washer.

1,338,322. FIREPROOFING COMPOSITION AND PROCESS OF MAKING THE SAME. TREADWAY B. MUNROE, Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Filed Aug. 28, 1919. Serial No. 320,493. 5 Claims. (Cl. 23—5.)

2. The process of making a fire-proofing composition which consists in adding an excess of ammonium hydroxid to zinc chlorid to form a solution containing a complex compound of zinc oxid and ammonia as well as ammonium chlorid and free ammonium hydroxid; and nearly neutralizing said free ammonium hydroxid by adding a reagent capable of forming therewith a fire resisting compound, substantially as described.

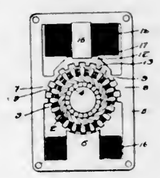
1,338,323. FUEL-FEEDING DEVICE FOR VEHICLES AND AIRPLANES. WILLIAM H. MUZZY, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 13, 1917. Serial No. 206,902. 9 Claims. (Cl. 158—36.)

1. In a fuel feeding system the combination with an elevated tank having a vacuum chamber and a supply chamber, of a vacuum pipe connected to the vacuum chamber, a supply pipe also connected to the vacuum chamber, a cut-off for the supply pipe; an atmospheric valve operating in conjunction with the cut-off, and connections between



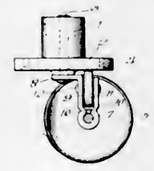
the atmospheric valve and the cut-off, said valve, cut-off, and connections being arranged to counterbalance the atmospheric pressure on said valve and cut-off.

1,338,324. IGNITION AND LIGHTING DEVICE. ALFONS H. NEULAND, San Francisco, Calif. Filed Sept. 6, 1916. Serial No. 118,616. 8 Claims. (Cl. 171—209.)



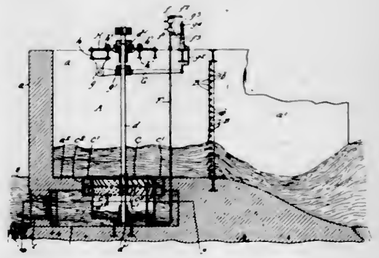
1. A dynamo electric machine comprising an armature, a pole piece partly encircling the armature, means for producing a magnetic flux through said pole piece, a second pole piece partly surrounding the armature, a winding surrounding said second pole piece and a pole piece arranged intermediate said first two pole pieces serving to intermittently shunt the flux from said second pole piece whereby a current is generated in the winding.

1,338,325. DOUBLE-WHEEL ANTIFRICTION-CASTER. EDWARD PAYSON, Traverse City, Mich. Filed Aug. 13, 1919. Serial No. 317,172. 2 Claims. (Cl. 16—72.)



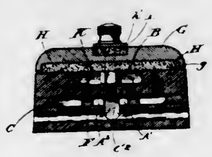
1. A caster comprising a plate, a frame lying beneath the plate and made of a flat strip or bar bent into an elongated U having a short outwardly-extending lip at the free end of one of its arms, a vertical pivot connecting said lip to said plate so as to support the frame for rotation about a vertical axis lying close to one side of the frame, a wheeled axle seated in the lower end of said frame, a roller lying between the upper ends of the arms of the frame and engaging with the under side of said plate, a combined supporting shaft for the roller and tie between the upper ends of said arms passing through said arms and through said roller, and means associated with said arms for engaging with the top of said axle and holding it in the seat.

1,338,326. WAVE OR TIDE MOTOR. FREDERICK G. PECK, Bradford, Pa. Filed Apr. 23, 1919. Serial No. 292,216. 18 Claims. (Cl. 253—14.)



1. In a water turbine, the combination of a rotary member which is pressed downwardly by pressure due to the head of water at the inlet end of said turbine and on which the pressure due to the head of the discharged water acts in an upward direction, and means on said rotary member for confining a quantity of air adapted to counteract the difference in pressure acting on said rotary member.

1,338,327. PROCESS AND APPARATUS FOR BURNING GAS FOR HEATING PURPOSES. MARION W. PITNER, Chicago, Ill., assignor to Pitner Gas Appliance Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 7, 1914. Serial No. 817,187. 4 Claims. (Cl. 158—23.1.)

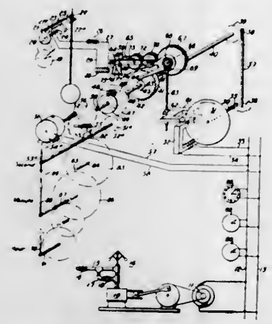


3. A gas heated sad iron comprising a body having a combustion chamber, a superposed gas distributing chamber, a relatively thick diaphragm separating said chambers and having restricted slots therein, a series of discharge ports from said combustion chamber, and a second series of lateral discharge ports leading from the combustion chamber below the first series and staggered relatively thereto.

1,338,328. CLOCK SYSTEM. ARTHUR F. POOLE, Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Sept. 10, 1917. Serial No. 190,587. Divided and this application filed June 18, 1919. Serial No. 305,099. 7 Claims. (Cl. 58—24.)

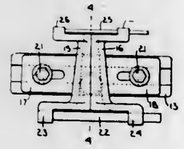
5. The combination with a source of alternating current for supplying light and power and a master clock, of

means actuated in accordance with the alternations of the source of current for indicating time, and means for in-



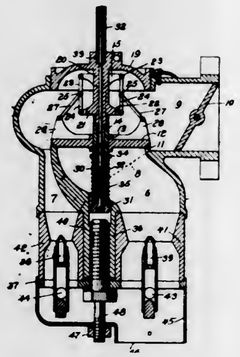
dicating directly the departure of the time indicated by said means from the master clock.

1,338,329. YARN-CHAIN TRUMPET. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 20, 1919. Serial No. 305,594. 4 Claims. (Cl. 19—16.)



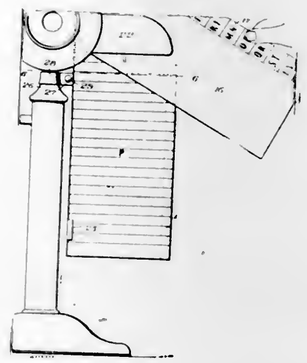
1. A trumpet for guiding a yarn chain divided longitudinally of its axis into two similar sections separable laterally to adjust the size of the trumpet aperture, means for securing the sections in adjusted position, and chain guiding means located at each end of the trumpet aperture bridging the space between the adjusted sections in the path of the chain and acting to prevent the chain from entering said spaces at either end.

1,338,330. CARBURETER. JOSEPH T. ROFFY, Pittsburgh, Pa. Filed June 11, 1917. Serial No. 173,928. 8 Claims. (Cl. 261—41.)



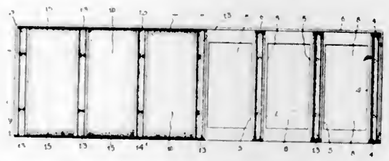
1. In a carbureter in which two charge forming devices communicate with a common mixing chamber and in which a valve is located between one of said devices and said chamber, means for mounting said valve constructed so that said valve in its travel from closed to substantially half open position is increasingly resisted from substantially zero resistance to maximum resistance and from said half open position to full open position is decreasingly resisted to substantially zero resistance at full open position.

1,338,331. INDEXED MEMORANDUM-PAD. GEORGE SCHLEMMER, New York, N. Y. Filed Dec. 27, 1918. Serial No. 268,504. 6 Claims. (Cl. 283—42.)



1. A memorandum pad comprising a rigid main body, and sheets pivoted thereto substantially at the upper left hand corner thereof, the front sheet being provided with index characters and the rear sheets being cut away to correspond therewith.

1,338,332. SAFETY-TREAD. JOHN WILLIAM SCOTT, Bayside, N. Y., and THOMAS HOAG GREER, Bloomfield, N. J. Filed Mar. 26, 1919. Serial No. 285,325. 5 Claims. (Cl. 20—79.)

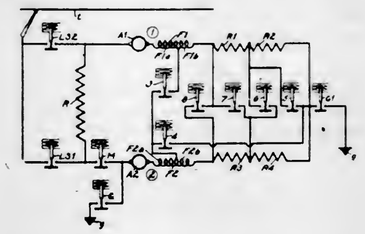


1. A safety tread comprising a metallic supporting frame adapted to be secured upon a stair tread, a plurality of tread blocks of non-slip material supported upon the frame with their side edge portions in close proximity and detachable key members interposed between the tread blocks and formed to overlie portions of the latter to secure the blocks in position, said key members being arranged transversely to permit removal of any one of the tread blocks without disturbing the major area of the tread surface.

1,338,333. CONTROL SYSTEM. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 21, 1916. Serial No. 121,399. 6 Claims. (Cl. 172—179.)

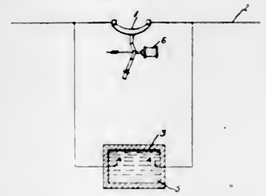
3. In a system of control, the combination with a supply circuit, a plurality of motors having armatures and divided field-magnet windings, and a plurality of resistors, of means for accelerating said motors through a number

of resistance steps, means comprising a number of switches for effecting field control when the motors are in series and in parallel relation and means governed by



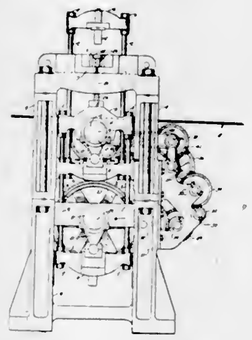
the first-named means for simultaneously opening the parallel circuit of each motor when the motors are in parallel relation.

1,338,334. CIRCUIT-INTERRUPTER. JOSEPH SLEPIAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1918. Serial No. 211,705. 7 Claims. (Cl. 175—294.)



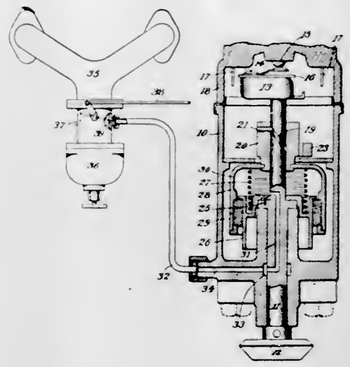
1. The combination with an electric circuit and an interrupter therefor, of a device connected in shunt relation to the interrupter comprising a solution of manganese sulfate that is adapted to become a non-conductor when current traverses the same, incident to the opening of the interrupter.

1,338,335. DRAWING-PRESS. REUBEN STANLEY SMITH, Milwaukee, Wis. Filed July 16, 1917. Serial No. 180,758. 46 Claims. (Cl. 113—38.)



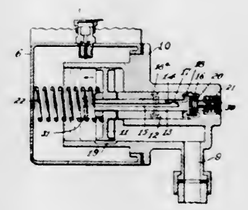
1. In a drawing press, the combination with a movable work-shaping member, of means for moving said member into working position and separately acting means for additionally actuating it in the same direction for a drawing operation.

1,338,336. IGNITION-CONTROLLER. GUY B. STONE, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed Jan. 10, 1917. Serial No. 141,553. 19 Claims. (Cl. 123—117.)



1. In an ignition controller, the combination with an engine having an intake manifold and a throttle valve; of ignition timing means; and a suction controller therefor, said suction controller having a connection with the intake manifold at a point entirely below the throttle valve when the throttle valve is in substantially closed position, but arranged to be above a portion of said valve when opened a certain amount.

1,338,337. AUTOMATIC PNEUMATIC, PNEUMATIC-TIRE-INFLATING MECHANISM. ARTHUR W. STONESTREET, Pasadena, Calif. Filed Oct. 14, 1916. Serial No. 125,599. 7 Claims. (Cl. 152—11.)

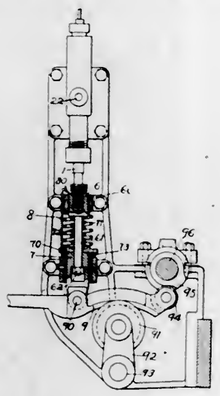


1. In an automatic pneumatic tire inflating mechanism, a back pressure reservoir, a piston, a valve having communication through its stem with an intake chamber and rigidly connected with said piston, a smaller piston having a valve seat formed in one end, and slidably mounted on the stem of said valve and adapted to draw in air and automatically mix it with that in the back pressure reservoir, all substantially as set forth.

1,338,338. OIL-FEED PUMP FOR INTERNAL-COMBUSTION ENGINES. HENRY W. SUMNER, Seattle, Wash. Filed July 3, 1918. Serial No. 243,215. 12 Claims. (Cl. 103—75.)

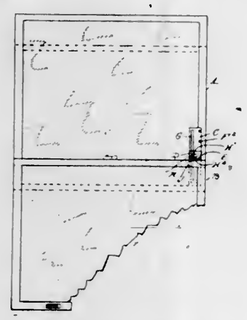
11. In a fuel feeding pump for internal combustion engines, a plunger actuating mechanism having two parts mounted to reciprocate along a common axis, one of said parts having a positive actuating connection with the pump actuating means and the other having a positive connection with the plunger, a bolt connecting said parts and

limiting their separation, a spring forming the plunger driving connection between said parts, and a tell-tale fin-



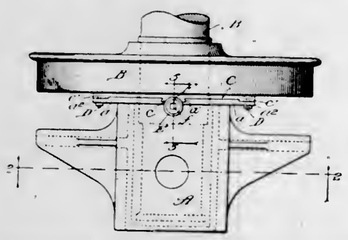
ger carried by one of said parts and extending adjacent to the other part.

1,338,339. WINDOW-LOCKING DEVICE. CHARLES R. TALBERT, Detroit, Mich. Filed Dec. 19, 1919. Serial No. 346,079. 4 Claims. (Cl. 292—137.)



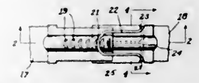
1. In a window locking device, the combination with a pair of sashes, of vertically slotted members respectively secured to said sashes, the slots of said members having lateral extensions registering substantially in the closed position of the sashes, and a bolt member jointly engaging said slots and slidable therein and movable into said extensions when the same are registered to lock the sashes.

1,338,340. HUB-LINER FOR JOURNAL-BOXES. WILLIAM JAMES FOLLERTON, Chicago, Ill. Filed Aug. 13, 1917. Serial No. 185,839. 1 Claim. (Cl. 64—25.)



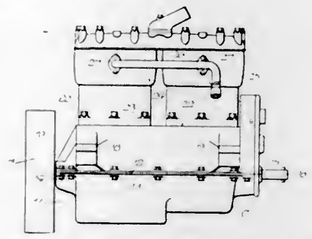
The combination of a journal box having laterally projecting flanges provided with bolt holes passing therethrough, and a hub liner arranged upon the inner end of said journal box, said liner being provided at its sides with laterally projecting flanges having bolt holes therein arranged to coincide with the bolt holes in the side flanges of the journal box and bolts passing through said lateral flanges of the journal box and of the hub liner and extending in the direction of the journal box and serving to firmly secure the liner to the box.

1,338,341. SHOE-CLOSING DEVICE. STEVE O. TYMUS, Winnipeg, Manitoba, Canada. Filed Dec. 3, 1919. Serial No. 342,063. 1 Claim. (Cl. 24—71.)



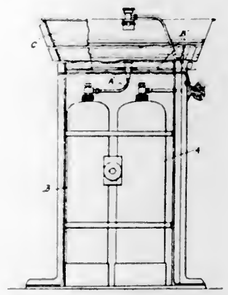
A fastener of the character described comprising a body composed of two sliding members, one provided with cross-notches upon its upper face, the other with a groove on its under side, clamps at the free end of said sliding members adapted to clamp bands securing the same to said members, a yoke having a bill engaging said notches and a spring in the groove of said second member for pressing said yoke into engagement with said notches.

1,338,342. INTERNAL-COMBUSTION ENGINE. HARRY LE VAN HORNING, Waukesha, Wis., assignor to Waukesha Motor Co., Waukesha, Wis., a Corporation of Wisconsin. Filed Apr. 9, 1917. Serial No. 160,798. 12 Claims. (Cl. 123—193.)



1. In combination, a steel cylinder structure having an unobstructed planar top and an aluminum cylinder head having an unobstructed planar bottom resting on said top, and fastening means for connecting said structure and head and permitting relative movement of the same under temperature changes.

1,338,343. PROCESS AND APPARATUS FOR THE PRODUCTION OF INTENSE ARTIFICIAL CLOUDS, FOGS, OR MISTS. PAUL WEISS, Paris, and JULES VERDIER, Enghien, France. Filed Dec. 10, 1917. Serial No. 206,569. 3 Claims. (Cl. 252.)

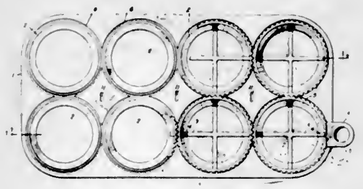


1. Apparatus for the production of intense artificial clouds from a fume producing product and ammoniacal gas,

consisting of flasks containing under pressure in the one case the fume producing product and in the other case the ammoniacal gas in the liquid state, in combination with a chimney at the bottom of which a current of air is induced by an ejector brought into operation by the escape of the expanding ammoniacal gas, and means for atomizing the fume producing product at the top of the chimney in the current of ammoniacal air.

2. A process for the production of intense artificial clouds, fogs or mists, which consists in atomizing in a moist ammoniacal atmosphere an anhydrous chlorid mixed with a product which will increase the opacity of the fog.

1,338,344. BAKING-PAN. HAROLD C. WIERTH, Brooklyn, N. Y. Filed Aug. 9, 1919. Serial No. 316,458. 7 Claims. (Cl. 53—6.)



1. A baking pan embodying a plurality of depressions adapted for the reception of dough, a scraper positioned in each depression, a gear associated with each scraper and meshing with the gears of the adjacent scrapers and means for imparting rotary movement to one of said scrapers whereby all of the scrapers are simultaneously rotated.

1,338,345. UNDERREAMER. ELIHU C. WILSON and WILLIAM W. WILSON, Los Angeles, Calif., assignors to said William W. Wilson. Filed May 21, 1915. Serial No. 29,482. 4 Claims. (Cl. 255—75.)

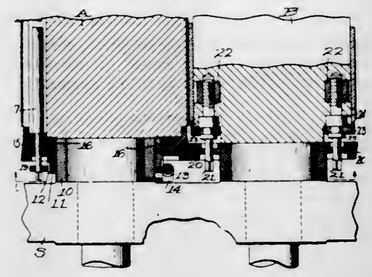


1. In an underreamer, a body provided with a bore, a bit-carrying rod therein provided with an elongated slot and spring, said body being provided with a transverse slot adapted to register with said other slot, a unitary key adapted to be introduced within said slots when in registration to assemble the bit-carrying rod and spring with the reamer body, and separate means preventing the displacement of said unitary key from said slots in either direction; one of said last named means being carried by the key and the other of said last named means being detachably applied to said key, one at one end of said key and the other at the other end thereof; said reamer body being provided with recesses accommodating said separate last named means one of which is passed through an eye in said key.

1,338,346. PROCESS OF MAKING PHOTOGRAPHIC SENSITIZING-DYES OF THE ISOCYANIN TYPE. LOUIS E. WISE, New York, N. Y., and ELLIOT Q. ADAMS, Berkeley, Calif. Filed Feb. 10, 1919. Serial No. 276,151. 5 Claims. (Cl. 8—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. The process of producing photographic sensitizing dyes by the interaction of sodium methylate in absolute methyl alcoholic solution with mixtures of the quaternary halid addition products of an α-methylated quinolin derivative and of a γ-unsubstituted quinolin derivative.

1,338,347. ADJUSTABLE BEARER FOR PRINTING-COUPLES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed June 25, 1915. Serial No. 36,215. Renewed Sept. 19, 1919. Serial No. 325,034. 7 Claims. (Cl. 101—216.)



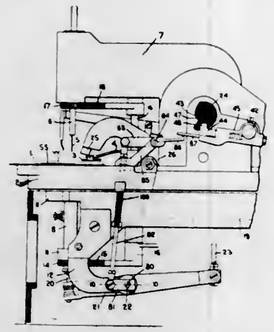
2. In a web printing press, the combination with a pair of double length printing cylinders adapted for printing on a double width web, one a plate cylinder carrying a series of stereotype plates with their margins in registration, and the other an impression cylinder having soft blankets thereon, of means for preventing the vibration of the cylinders, and adjusting them to compensate for the thinning of the blankets, said means comprising a longitudinally movable member on the hub of one of the cylinders, means for adjusting the member positively in both directions along the hub, a bearer ring carried by and positively movable with said member in both directions and provided with a conical outer surface, and a bearer ring having a similar but opposite conical surface fixed to the journal of the other cylinder and adapted to engage the conical surface of the first named bearer ring.

5. The combination with a printing couple, of a longitudinally threaded sleeve, a nut on said sleeve, said nut being provided with a worm threaded on its outer surface, a worm meshing with said thread and adapted to be turned for the purpose of adjusting the nut circumferentially and turning it out and in along the thread of the sleeve, a bearer ring connected with said nut and provided with a conical outer surface, and a bearer ring having a similar but opposite conical surface on the journal of the other cylinder and adapted to engage the conical surface of the first named bearer ring, the first named ring being provided with openings for the blanket reel rods.

1,338,348. SEWING-MACHINE. FRANK ZALESKI, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Original application filed Dec. 8, 1917, Serial No. 206,215. Divided and this application filed May 13, 1918. Serial No. 234,047. 14 Claims. (Cl. 112—252.)

1. In a sewing machine, the combination with work-holding means, of stitch-forming mechanism comprising upper-thread-handling mechanism and under-thread-handling mechanism, means to give said stitch-forming mech-

anism a series of stitchforming movements and then bring it to rest, means to prevent the interlocking of the upper

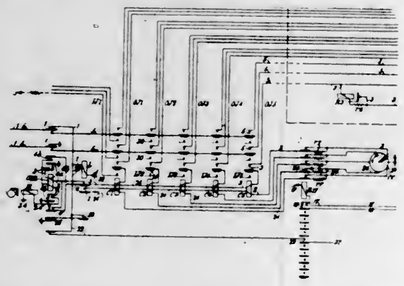


and under threads during the last stitch-forming movement, and means to cut the under thread beneath the work at the completion of the stitching operation.

1,338,349. PROCESS OF MAKING PHOTOSENSITIZING-DYES EFFECTIVE FOR INFRA-RED RADIATION. ELLIOT Q. ADAMS, Berkeley, Calif., and LOUIS E. WISE, New York, N. Y. Filed Apr. 4, 1919. Serial No. 287,630. 2 Claims. (Cl. 8—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. The process of producing infra-red photographic sensitizing dyes by the inter-action of air and of sodium methylate in absolute methyl alcoholic solution with the quaternary halid addition products of α, γ- dimethylated quinolin derivatives.

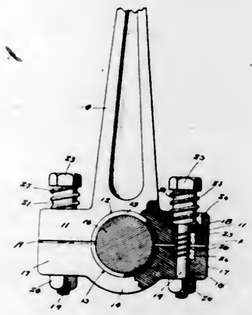
1,338,350. TELEPHONE SYSTEM. WILLIAM AITKEN, London, England, assignor to The Relay Automatic Telephone Company, Limited, London, England. Filed Mar. 20, 1917. Serial No. 156,070. 10 Claims. (Cl. 179—16.)



1. In a telephone system, the combination of a line, a plurality of relays associated with said line, a set of lines connected to terminals of said relays, another set of lines connected to other terminals of said relays, means for causing the relays to connect the line with an idle line of one set and means for causing the relays to connect the line with an idle line of the other set.

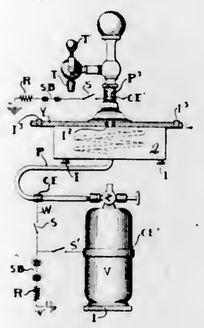
1,338,351. PISTON-ROD JOURNAL-BEARING. CLARK J. BLANKINSHIP and WILLIAM M. ELLIS, Patoka, Ill. Filed July 7, 1919. Serial No. 309,090. 4 Claims. (Cl. 64—55.)

2. In combination with a pair of journal bearing members, bolts passing through said members, means on said bolts for securing the same in position, springs located on said bolts and arranged to normally exert pressure tending to draw the parts of the journal bearing toward each



other, and means positioned between the journal bearing members for maintaining them in proper spaced apart relation.

1,338,352. ELECTRICAL PROCESS AND APPARATUS FOR COMPOUNDING LIQUIDS WITH GASES OR OTHER COMPONENTS AND THE PRODUCTS THEREOF, INCLUDING CARBONATING BEVERAGES. JACOB E. BLOOM, Brooklyn, N. Y. Filed Sept. 30, 1919. Serial No. 327,579. 38 Claims. (Cl. 204—5.)

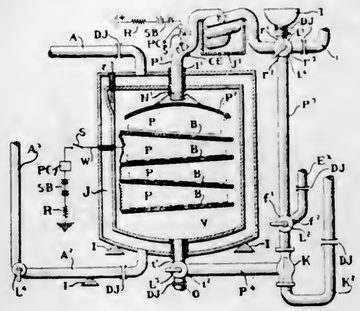


8. An electric treatment in the process of compounding a liquid with other materials, liquid, and gaseous, which consists in electrifying one liquid component with one sign only; and another liquid component separately with opposite sign only and with different potentials; and then compounding the said two; and thereafter electrifying such product of the said two with one sign and separately electrifying a third component, gas, with opposite sign and different potential; and thereafter completing the compounding; all under insulated conditions.

1,338,353. ELECTRICAL PROCESS AND APPARATUS FOR THE DYEING OF FURS AND OTHER MATERIALS AND THE PRODUCTS RESULTING THEREFROM. JACOB E. BLOOM, Brooklyn, N. Y. Filed Sept. 30, 1919. Serial No. 327,580. 31 Claims. (Cl. 204—5.)

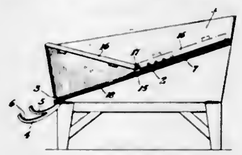
8. The process of electrifying with one sign only a fur and other fiber and the like which consists in bringing same in dry state under insulated conditions into physical contact with a conductor extension of one terminal

of a direct current supply of a suitable voltage and amperage, the other terminal being earthed, and with a



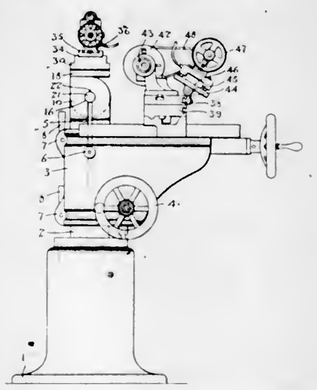
suitable increased difference of potential between the electric source and said extension contact; all under insulated conditions.

1,338,354. CONFECTION-MAKING APPARATUS. THEODORE BOSSHARD, Brooklyn, N. Y. Filed Nov. 14, 1919. Serial No. 337,968. 7 Claims. (Cl. 91—2.)



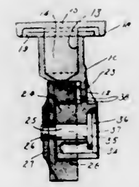
6. In an apparatus of the character described, a receptacle, an inclined bottom therein, a removable tray provided with passages to receive articles to be treated, closures for said passages, removable guides to guide articles to said passages, and a tray to receive the surplus articles arranged adjacent the lower portion of said bottom, and on the exterior of said receptacle, an opening in the said receptacle to permit passage of the surplus articles to the last-mentioned tray.

1,338,355. UNIVERSAL GRINDING-MACHINE. SAMUEL G. BUSKARD, Hamilton, Ontario, Canada, assignor, by mesne assignments, of one-half to R. E. T. Pringle Limited, Toronto, Canada. Filed Mar. 19, 1917. Serial No. 155,771. 8 Claims. (Cl. 51—4.)



1. In a universal grinder, a horizontal work support, a vertical column, a rotatable member adapted to be moved into oblique relation to said column, means for supporting a grinder member on said rotatable member, a grinder member, and means for moving the grinder member with its axis parallel with or in planes intersecting the plane of the work.

1,338,356. CASTER. JOHN S. CANTELO, Boston, Mass. Filed Apr. 13, 1915, Serial No. 21,125. Renewed Sept. 18, 1919. Serial No. 324,577. 9 Claims. (Cl. 16—4.)

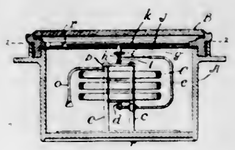


2. A caster, comprising a frame, having a depending leg with a hub formed thereon, and a wheel journaled to said hub, said hub having a lubricant container formed therein, and said wheel having means movable therewith for distributing the lubricant.

1,338,357. METHOD OF MANUFACTURING AMMONIUM PERCHLORATES. OSCAR BIRGER CARLSON, Avesta, Sweden, assignor to Aktiebolaget Carlit, Stockholm, Sweden, a Corporation of Sweden. Filed Sept. 25, 1917. Serial No. 193,091. 1 Claim. (Cl. 23—21.)

Method of manufacturing ammonium perchlorate which consists in mixing solutions of ammonium sulfate and sodium perchlorate, cooling the resulting solution to precipitate ammonium perchlorate at a temperature not materially above 26° C., removing the precipitated perchlorate, and evaporating the mother liquor at a temperature between 45° and 100° C., whereby anhydrous sodium sulfate is precipitated and a solution concentrated with respect to ammonium perchlorate is obtained.

1,338,358. RATE-OF-ASCENT INDICATOR FOR AEROPLANES. FRANCIS M. CHAMPLIN, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1917. Serial No. 142,139. 17 Claims. (Cl. 73—151.)



1. In combination, a container having a yielding wall subject to atmospheric pressure on one side, means for retarding the rate at which the pressure on the other side of said wall tends to become equal to a changing atmospheric pressure, and indicating means actuated by said wall in accordance with the rate of change of atmospheric pressure.

1,338,359. ELECTRIC SINGEING-FURNACE. ORA A. COLBY, Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1918. Serial No. 260,279. 8 Claims. (Cl. 219—19.)

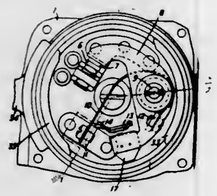
1. In an electric furnace adapted for singeing cloth, the combination of a resistor comprising a plurality of

transversely extending conducting blocks, heat-insulating means covering the sides and the bottom of said resistor,



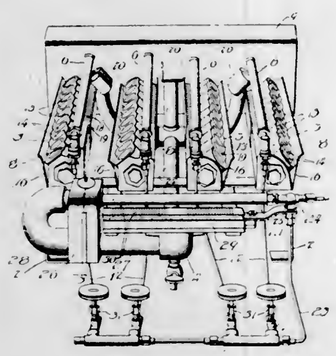
and means overlying said resistor whereby heat may be transferred uniformly from said resistor to the surface of said cloth.

1,338,360. IGNITION SYSTEM. FRANK CONRAD, Pittsburgh, and J. STANLEY KINNEY, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 19, 1917. Serial No. 163,178. 10 Claims. (Cl. 200—30.)



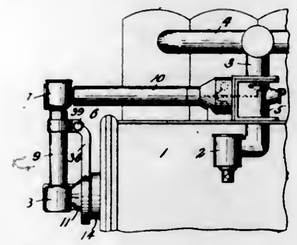
1. In an interrupter, the combination with a pair of relatively movable contact members, of a lever for actuating one of said contact members, said lever comprising two plate members having rigidly connected end portions, to which one contact member is secured and a pivot upon which the lever is mounted having its axis transverse to the planes of the main portions of the plate members.

1,338,361. HEATING PLANT. ROBERT L. DORAN, Chicago, Ill. Filed Jan. 9, 1919. Serial No. 270,359. 4 Claims. (Cl. 158—61.)



1. A hydrocarbon burner, comprising a hollow body having a surface studded with outlets, foraminous refractory blocks seated in said outlets so as to lie flush with the surface of said body, a generator for supplying a gaseous mixture to said outlets, said body having a plurality of gas outlet apertures formed therein for heating said generator, a sub-burner located in position to heat said generator, a pilot generator for supplying a gaseous mixture to said sub-burner, means for preheating said pilot generator and means whereby said generators are controlled independently of each other.

1,338,362. GOVERNOR DRIVE MECHANISM. THEODORE DOUGLAS, Scarboro, N. Y., assignor to The Duplex Engine-Governor Company, Inc., a Corporation of New York. Filed Dec. 9, 1916. Serial No. 135,962. 10 Claims. (Cl. 74—7.)



1. Driving mechanism for a governor to control an engine, said mechanism comprising a housing including a pair of tubular casings connected to each other at an angle, means for securing one of said casings to the governor, and means for adjustably connecting the other casing to the framework of the engine controlled by said governor.

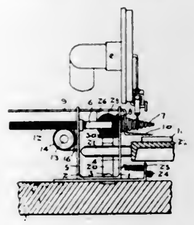
1,338,363. PROCESS OF MAKING 2-AMINOANTHRAQUINONE. MAX FISCHER, Basel, Switzerland, assignor to J. R. Geigy S. A., Basel, Switzerland, a Corporation of Switzerland. Original application filed Mar. 8, 1919, Serial No. 281,499. Divided and this application filed Oct. 16, 1919. Serial No. 331,076. 2 Claims. (Cl. 23—24.)

1. The herein described process for the manufacture of 2-aminoanthraquinone consisting in heating under pressure anthraquinone-2-sulfonic acid with ammonia in the presence of calcium chlorid and of magnesium chlorid.

1,338,364. PROCESS OF MAKING 2-AMINOANTHRAQUINONE. MAX FISCHER, Basel, Switzerland, assignor to J. R. Geigy S. A., Basel, Switzerland, a Corporation of Switzerland. Original application filed Mar. 8, 1919, Serial No. 281,499. Divided and this application filed Oct. 16, 1919. Serial No. 331,077. 1 Claim. (Cl. 23—24.)

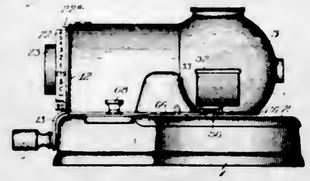
The herein described process for the manufacture of 2-aminoanthraquinone consisting in heating under pressure anthraquinone-2-sulfonic acid with ammonia in the presence of a calcium chlorid and of ammonium chlorid.

1,338,365. PHONOGRAPH-STARTING DEVICE. CHARLES HARRISON GIBBONS and JOSEPH P. CLEAL, Toronto, Ontario, Canada. Filed May 16, 1919. Serial No. 297,611. 7 Claims. (Cl. 274—9.)



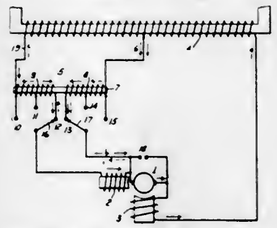
1. In a phonograph starting device, the combination with a reproducer, of a member extending over the record carrying member in a fixed position adapted to support the reproducer and to carry it inwardly and deposit it upon the record.

1,338,366. PRINTING-MACHINE. JOHN HEBERLING, Rochester, N. Y., assignor of one-half to Harold H. Simms, Rochester, N. Y. Filed Nov. 29, 1918. Serial No. 264,675. 32 Claims. (Cl. 197—6.4.)



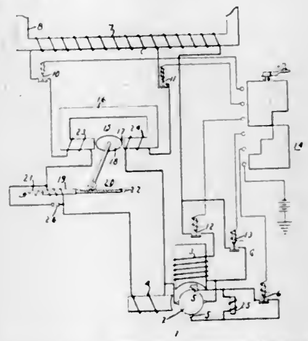
1. A printing machine comprising a casing formed with a forwardly opening check receiving slot, a frame mounted to turn in the casing above the slot and having a portion extending to the exterior of the casing, a printing member mounted to turn on the frame about an axis at an angle to the turning of the frame, and operating means for the printing member having a portion on the exterior of the casing and also embodying a shaft with an axis common to the axis of turning of the frame.

1,338,367. SINGLE-PHASE MOTOR-CONTROL SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 3, 1917. Serial No. 194,447. 9 Claims. (Cl. 172—276.)



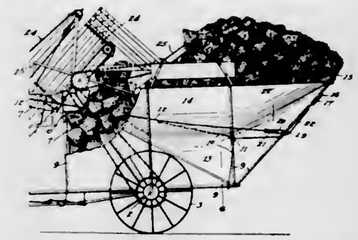
1. The combination with a doubly-fed motor, of a source of alternating-current, inner and outer inducting-field leads from said source to said motor, and inductively related windings inserted in said leads, said windings being so connected that the magnetomotive forces thereof, due to the flow of load current therethrough, are in opposition.

1,338,368. SYSTEM OF CONTROL FOR ALTERNATING-CURRENT COMMUTATOR-MOTORS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1917, Serial No. 193,693. Renewed Mar. 10, 1920. Serial No. 364,757. 8 Claims. (Cl. 172—276.)



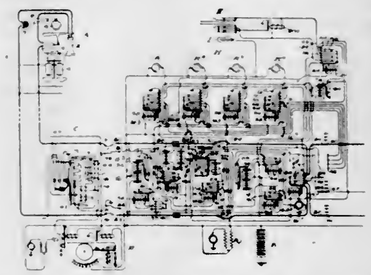
7. The combination with the inducing-field winding of a transformer-conduction motor, of current-controlling apparatus connected thereto which is substantially non-inductive to the load current of said motor and inductive to the magnetizing current for said inducing-field winding.

1,338,369. SHOCK-LOADER. HENRY HENDERSON, Halstad, Minn. Filed Feb. 20, 1917. Serial No. 149,716. 12 Claims. (Cl. 214—65.)



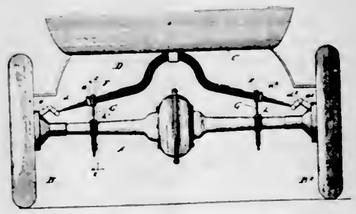
1. A shock loader comprising a shock receptacle having a tilting floor and a rear end gate, said gate having an outward movement to allow discharge of the bundles and an upward movement to clear the ground and means for delivering the bundles to said receptacle.

1,338,370. AUTOMATIC TELEPHONE SYSTEM. HARRY E. HERSHEY, Whitewater, Kans., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1916. Serial No. 83,250. 33 Claims. (Cl. 179—17.)



1. In a telephone system, a party line connector switch responsive to a plurality of digits in a called number, party lines and selectable terminals therefor in said connector, sources of ringing current of different character for signaling substations on said lines selectively, means in said connector responsive to one of said digits for selecting one of said sources and responsive thereafter to a plurality of said digits for selecting any of said terminals.

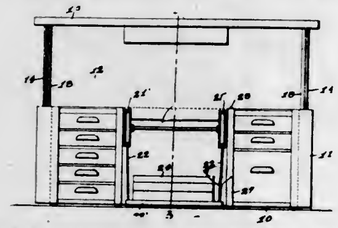
1,338,371. SHOCK-ABSORBER. PHILLIP HIEN, Chicago, Ill., assignor of one-eighth to Thomas F. Sheridan and one-eighth to George L. Wilkinson, Chicago, Ill. Filed Nov. 19, 1914. Serial No. 873,070. 3 Claims. (Cl. 267—28.)



2. The combination with the elliptical spring of a vehicle, of a saddle extending around the top and sides of

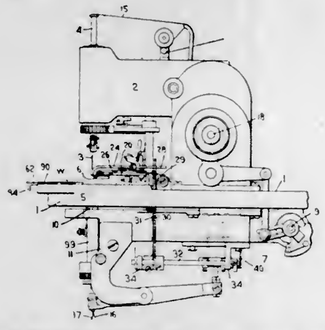
said spring, a U-shaped rod extending around and seated upon said saddle, means connected to an adjacent part of the vehicle through which the depending portions of said rod freely pass, and supplemental springs interposed between said part of the vehicle and the ends of said rod for imposing upon the vehicle spring a predetermined compression.

1,338,372. ARMORED FIXTURE. ANDREW KAMMERICH, Syracuse, Mo., assignor to Kammerich Manufacturing Company, a Corporation of Delaware. Filed Jan. 10, 1919. Serial No. 270,514. 3 Claims. (Cl. 268—2.)



1. A desk provided on one side and both ends with a stationary armor, a movable armored housing closed on three sides, an armored desk top and a drawer carried by and secured to said movable housing, said desk, movable housing and top forming an armored refuge chamber, a rack and pinion connection between the desk and movable housing, weights for acting on the racks and pinion connection for raising the movable housing, and a foot operated locking device for securing the movable housing and desk top in lowered position.

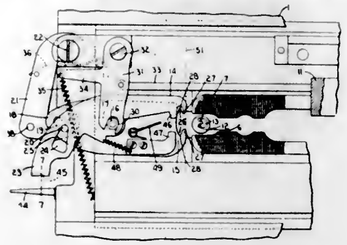
1,338,373. SEWING-MACHINE. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Nov. 26, 1917. Serial No. 203,889. 35 Claims. (Cl. 112—252.)



1. In a sewing machine, the combination with work-holding means, of means to form a series of short seams and to lay a stay-cord along the seam as it is formed, and stay-cord-trimming mechanism comprising means to hold the end of the stay-cord while the stitching of each seam is commenced, and means to cut close to the work both the end of the stay-cord which projects from the seam at the point where the latter is commenced and the end of the stay-cord which leads to the supply at the end of the seam.

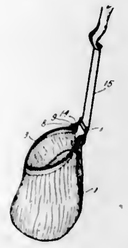
1,338,374. THREAD-TRIMMER FOR SEWING-MACHINES. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Apr. 10, 1918, Serial No. 227,622. Renewed Dec. 15, 1919. Serial No. 345,124. 6 Claims. (Cl. 112—252.)

1. In a sewing machine, the combination with work-holding means, of stitch-forming mechanism including under-thread-handling mechanism, a pair of pivotally-connected jaw members, each having a thread-receiving notch and a beak, means operative at the end of a stitching operation to move the jaw members into position to engage the thread, means to partially close said jaws



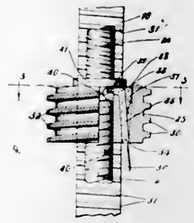
thereby to bring the beaks into overlapping relation and to inclose the thread in the notches and then to move the jaws bodily to draw out a length of thread, and means to give the jaws a final closing movement thereby to sever the thread.

1,338,375. BAG. JOSEPH KLEIDMAN, New York, N. Y. Filed Sept. 20, 1917. Serial No. 192,358. 12 Claims. (Cl. 150—3.)



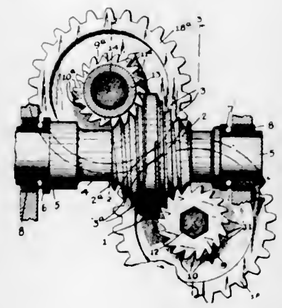
1. In a combination, a bag, a spring of substantially elliptical configuration secured to the mouth thereof, said bag being adapted to be closed by bringing the two halves of said spring together side by side in bending the same into a curve resembling an arc of a circle, and fastening means for holding together the ends of the spring so bent.

1,338,376. MONKEY-WRENCH. JACOB KOCHA, Warrior Run, Peely, Pa. Filed June 20, 1919. Serial No. 305,544. 1 Claim. (Cl. 81—163.)



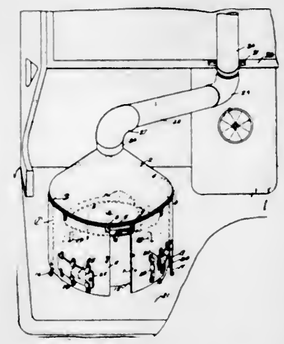
In a wrench, the combination with a rectangular shank having a handle and a fixed head at the opposite end of said shank, of a jaw movable on said shank, a rack formed on said shank, a nut engaged with said movable jaw, a rod having right and left hand screw-threads from its center, said right hand end being engageable within said nut, a nut fixed in said handle engageable with the left hand end of said rod, a worm slidable over said rod, said worm engaging with the rack on said shank, a lever pivoted within a recess in said worm, means for actuating said lever, a detent formed with said lever, and spaced openings in said rod engageable with said detent whereby said worm may be adjustably engaged with said rod at spaced intervals.

1,338,377. MECHANICAL MOVEMENT. JOHN C. KOPF, Bellevue, Pa. Filed Feb. 19, 1920. Serial No. 359,871. 9 Claims. (Cl. 74—36.)



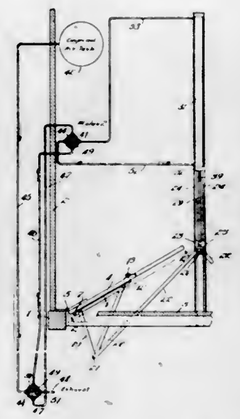
9. A double concave conical gear member having driving spirals formed upon its reversely disposed conical sides, said spirals running helically in the same direction and spirally in opposite directions with constantly varying pitches, and being of buttress section with their working faces constantly varying in angle, reversed with respect to each other.

1,338,378. COOKING UTENSIL. HELEN O. LARSON, Los Angeles, Calif. Filed July 2, 1919. Serial No. 308,203. 2 Claims. (Cl. 126—301.)



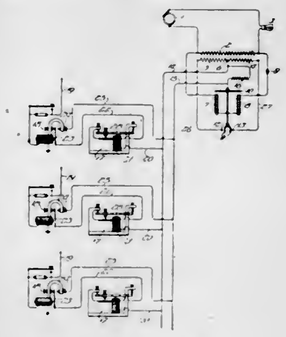
1. A cooking utensil comprising a main body wall circular in plan and straight up and down and extending through substantially two-thirds of a circle, a conical top fitting upon the upper edge of the main body, the upper edge of the main body being turned inwardly and fitting upwardly against the lower face of the top and secured in place by rivets, the edge of the top outside of the rivets being turned downwardly, outwardly and upwardly to form a door hanger, doors fitting the main body and fitting upwardly against the door hanger, straps secured to the upper parts of the doors and interlocking with the door hanger so that the doors will slide upon the hanger and will not move upwardly or downwardly, the door hanger extending across the opening between the vertical edges of the main body so the doors may be moved into place to cover the opening, and a pipe leading from the apex of the conical top.

1,338,379. DOOR-OPERATING MECHANISM. GLEN R. LEACH, Cleveland, Ohio. Filed Aug. 1, 1917. Serial No. 183,851. 16 Claims. (Cl. 268—9.)



1. In an apparatus of the type described, the combination of a door, said door being hinged to swing about a vertical axis, a pivoted frame mounted on said door and hinged for pivotal movement about a vertical axis, means for locking said pivoted frame to said door, a reciprocating mechanism for operating said door and operating connections between said mechanism and said pivoted frame.

1,338,380. VIBRATORY CONVERTER. OSCAR M. LEICH, Genoa, Ill., assignor to Leich Electric Company, Genoa, Ill. Filed Oct. 31, 1918. Serial No. 260,426. 3 Claims. (Cl. 178—2.)

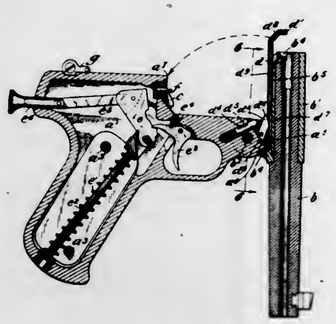


1. A system of the character described comprising a plurality of signaling circuits, electromagnetic signaling instruments associated respectively with said circuits, a common source of pulsating uni-directional current connected to supply said instruments with operating current, and a by-path arranged in bridge connection of said source of current to maintain magnetization of said instruments between pulsations to prevent chattering of the instrument armatures.

1,338,381. PISTOL. GEORGE S. LEWIS, Springfield, Mass., assignor to J. Stevens Arms Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 17, 1919. Serial No. 297,856. 3 Claims. (Cl. 42—46.)

3. In a pistol, the combination of a frame, a barrel pivotally mounted on the frame, an extractor sliding on the barrel, a dog pivotally mounted on the frame and hav-

ing a nose to engage the extractor and to pass out of engagement therewith in the breaking movement of the barrel, and a spring-pressed plunger carried by the frame



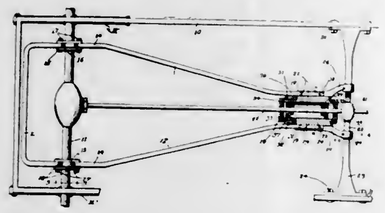
and coöperating with the dog to press it upward and return it to position to engage the extractor in the next breaking movement of the barrel.

1,338,382. REAR SIGHT FOR FIREARMS. GEORGE S. LEWIS, Springfield, Mass., assignor to J. Stevens Arms Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 2, 1919. Serial No. 327,865. 3 Claims. (Cl. 33—58.)



1. In a firearm, the combination of a sight block, a slotted sight pivotally mounted in the block, and a rotatable device mounted in the block and having in its end an eccentric pin to engage the slot in the side of the movable sight.

1,338,383. AUTOMOBILE-CHASSIS. JOHN W. LOVELL, Cabery, Ill. Filed July 30, 1919. Serial No. 314,321. 1 Claim. (Cl. 180—70.)



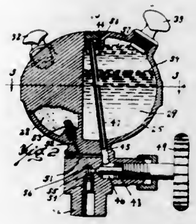
An attachment for motor vehicles, comprising a frame including side members adapted at their rear end portions for connection with the rear axle of a motor vehicle, a casing having radiating flanges at opposite sides and upon which the forward end portions of the side members are respectively secured, arms extending forwardly from the casing and having transversely alined bearings, a support adapted for connection transversely of a vehicle frame and having bearing members pivotally engaging the bearings of the arms respectively, and spaced bearings carried by the casing in position to support the motor vehicle drive shaft with its universal joint coincident with the common axis of the bearings of said arms.

1,338,384. PICTURE-FRAME HOLDER AND HANGER. BETSIE K. LOYLAND, Thief River Falls, Minn., assignor of one-half to Theona K. Hofto, Grand Forks, N. D. Filed Oct. 11, 1916. Serial No. 125,025. 1 Claim. (Cl. 40—145.)



A picture frame holder comprising a base plate having means for attachment to a fixed support, an arm hinged to the upper part of said plate, two other arms pivoted to the lower part of the plate, all the arms being extensible in length and having their outer ends provided with hooks to receive the picture frame, and a screw through the bend of each hook adapted to be driven into said frame.

1,338,385. AIR-BRAKE-PUMP LUBRICATOR. ELIJAH MCCOY, Detroit, Mich., assignor to Elijah McCoy Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed July 21, 1919. Serial No. 312,209. 5 Claims. (Cl. 184—58.)



5. A lubricator mounted on the steam valve chamber of a vertical air pump for air brake systems, comprising a plurality of chambers, one to hold oil and the other to hold graphite, said lubricator having a passage to admit steam to the bottom of the oil chamber, a pipe screwed into said passage and extending to near the top of the oil chamber and having fine holes near its upper end, said lubricator having a second passage connecting with the first and to the bottom of the graphite chamber, a calibrated nozzle in the bottom of the graphite chamber screwed into the upper end of the second passage, and a manually controlled valve for regulating the entrance of steam to said chambers, and a check valve between the steam valve chamber and the manually controlled valve to prevent the lubricant from passing to the steam valve chamber when the pump is at rest.

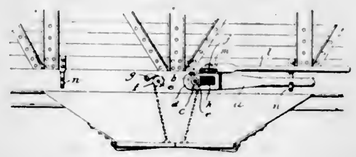
1,338,386. DEVICE FOR MAKING HYPODERMIC INJECTIONS. RONALD GORDON JOHN MCENTIRE, Dublin, Ireland. Filed Apr. 16, 1918. Serial No. 228,938. 2 Claims. (Cl. 128—218.)

1. A device for making hypodermic injections comprising in combination, a receptacle, a plug of resilient neutral material in said receptacle forming a rodless piston therein, a neck on the rear end of said receptacle, a flange on said neck, a neck at the front end of said receptacle, a hypodermic needle permanently secured in the second named neck, a cover abutting against the front end of the second named neck, and a sleeve encircling the second



named neck and said cover whereby said cover is hermetically secured to the second named neck, for the hereinbefore specified purpose.

1,338,387. CAR-DUMP-DOOR OPERATOR. ANDREW MAGIMOREC, Pittsburgh, Pa. Filed Sept. 9, 1919. Serial No. 322,672. 3 Claims. (Cl. 105—307.)



1. In a device of the class set forth, a load-sustaining bar carrying a self-locking gearing for temporary engagement with the chain-shaft, and a supporting device on the car for the free end of said bar.

1,338,388. HAIR-CURLING DEVICE. RALPH K. MAKER, Providence, R. I., assignor to Joseph Goldsmith, Jr., Providence, R. I. Filed Dec. 5, 1919. Serial No. 342,668. 3 Claims. (Cl. 132—19.)

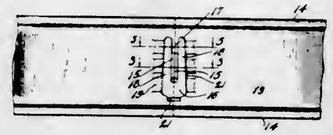


1. A device of the class described, comprising a hair curler having two resilient arms, a slidable sleeve on one of said arms adapted to be moved to engage the other arm and hold the ends of both of the arms together, spaced apart stops projecting from one face of the arms on which the sleeve is mounted, a narrowed portion of said sleeve between the stops, said stops comprising protuberances formed by forcing outward the material of the arm on which the sleeve is mounted.

1,338,389. IGNITING SUBSTANCE. REGINO A. MARTINEZ, Buenos Aires, Argentina, assignor to Pedro Eugenio Girard, Buenos Aires, Argentina. Filed June 30, 1919. Serial No. 307,851. 3 Claims. (Cl. 52—5.)

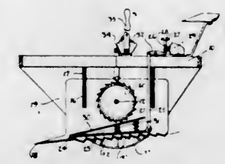
1. A new industrial product consisting in an inflammable substance capable of being applied directly to the objects or bodies which are to be ignited, characterized by the fact that it is constituted by an igniting paste applied directly to the required body and answering substantially to the formula:—chlorate of potassium 35%; bichromate of potassium 2%; starch 40%; sawdust 10%; tragacanth gum 3%; vegetable charcoal 10%.

1,338,390. DEMOUNTABLE RIM OF THE CROSS-CUT TYPE. OTIS W. MOTT, Jackson, Mich., assignor to Perlman Rim Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1917. Serial No. 147,402. 2 Claims. (Cl. 152—21.)



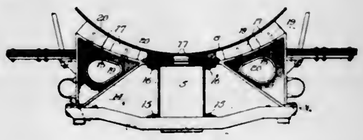
1. The combination of a cross-cut demountable rim having interned lips on its ends and inwardly extending lugs spaced from the lips, and a bifurcated key fitting over the lips to hold the same together and engaging said lugs to hold the key from spreading, said lugs having inwardly converging edges and said key having outwardly converging edges whereby said lugs are adapted to hold the key against the inner face of the rim.

1,338,391. CLOD-CRUSHER. SAMUEL H. MUSGRAVE. Ocean Falls, British Columbia, Canada. Filed Mar. 15, 1918, Serial No. 222,780. Renewed Oct. 30, 1919. Serial No. 334,633. 2 Claims. (Cl. 55—1.)



1. A soil pulverizing machine including a frame having an axle and wheels carried thereby, a yoke member vertically adjustable within and depending below the frame, said yoke having a forwardly disposed serrated soil digging and lifting portion, a crushing drum carried by the axle within the yoke, and yieldably supported means carried by the yoke for coöperation with the drum to crush the clods.

1,338,392. TANK-CAR. OSTRANDER J. PARKS, River Forest, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,690. 15 Claims. (Cl. 105—362.)

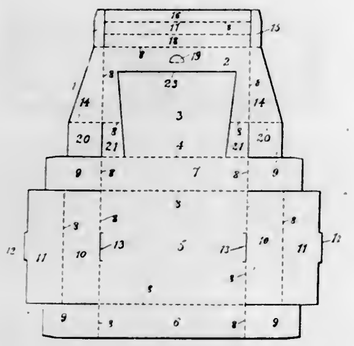


1. In tank car construction, the combination of a frame, a tank extending longitudinally thereof, and filler members interposed between said tank and frame and on which said tank bears, said filler members being automatically shiftable on said frame to compensate for reduction in the thickness of said members and maintain a seating surface for the tank.

1,338,393. MANUFACTURE OF MICA AND MICA SLATE. CHARLES J. PATTON, Keystone, S. D. Filed May 11, 1914. Serial No. 837,881. 2 Claims. (Cl. 106—3.)

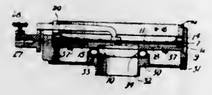
2. The herein described resilient flexible composition of matter comprising comminuted mica and an unvulcanized rubber binder applied to the particles of the comminuted mica, the amount of such binder being only sufficient to cause the particles of mica to adhere to each other.

1,338,394. DISPLAY BOX OR CARTON. FRANK M. PEREZ, Brooklyn, N. Y., assignor, by mesne assignments, to David Brody, New York, N. Y. Filed Dec. 13, 1916. Serial No. 136,780. 20 Claims. (Cl. 206—44.)



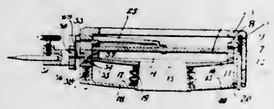
5. A receptacle comprising a body and a cover therefor, the latter being hinged to the rear end of the body and being transversely foldable to enable it to be turned under the body to permit the bottom of the body to rest thereon and to elevate said end and support the body in position to display the contents of same.

1,338,395. SOUND-BOX. HAROLD Y. PRENDERGAST, New York, N. Y. Filed June 18, 1917. Serial No. 175,273. 3 Claims. (Cl. 274—35.)



1. A sound box embodying a casing having a sound outlet, a diaphragm and sounding board positioned within the casing in spaced relation to one another and supported therein at their outer peripheries to provide an intermediate sound chamber, said sounding board being provided at its center with an aperture located opposite the zone of greatest amplitude of vibration of the diaphragm, and in alinement with the sound outlet of the casing, and an annular yieldable member, of substantially the same interior diameter as the aperture in the sounding board, clamped between the sounding board and the wall of the sound box to provide a continuous passage from the sound chamber to the outlet of the sound box, all parts of said sounding board, except its periphery, being free to vibrate.

1,338,396. SOUND-BOX. HAROLD Y. PRENDERGAST, Brooklyn, N. Y. Filed Mar. 6, 1918. Serial No. 220,688. 8 Claims. (Cl. 274—35.)

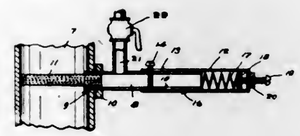


3. In a sound box, the combination of a diaphragm, a sounding board held in spaced relation to the diphragm, and a cylindrical spring, said sounding board being held by said spring to yield to excessive vibrations of the diaphragm.

1,338,397. DISAZODYESTUFFS ABLE TO BE CHROMATED. EMIL REBER, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Aug. 24, 1918. Serial No. 251,292. 3 Claims. (Cl. 8—1.)

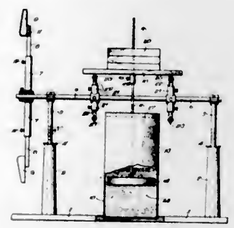
1. As new products, the herein described disazodyestuffs, able to be chromated, derived from an aromatic diazoazocompound and an oxy-carboxy-aryl-pyrazolone-compound, which constitute in a dry state, orange to brown powders dissolving in water with orange to brown-red colorations and in concentrated sulfuric acid with red to blue colorations and dye wool, in an acid bath, clear red to orange and brownish red tints becoming, on subsequent chromating, fast to fulling and to potting.

1,338,398. VAPORIZER. ALBERT J. RICHARDS, Seattle, Wash., assignor of one-half to A. C. De Nisson, Seattle, Wash. Filed Feb. 19, 1919. Serial No. 278,104. Renewed Mar. 13, 1920. Serial No. 365,611. 2 Claims. (Cl. 123—124.)



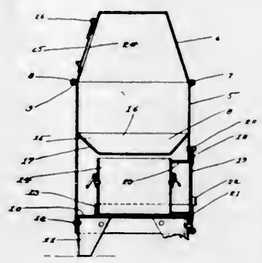
1. A valve of the class described comprising a smaller tube open at both ends and having a perforation in the wall thereof, a larger tube open at one end and closed at the opposite end and disposed to fit snugly over said smaller tube said larger tube having a perforation in the wall thereof that is adapted to register with the perforation in said smaller tube when said larger tube is moved by suction exerted through said smaller tube, and said larger tube having a longitudinally extending slot in the wall thereof, a pin secured to said smaller tube and projecting outwardly through said slot to prevent relative turning movement between said two tubes and to limit the longitudinal movement of said larger tube on said smaller tube, a compression spring interposed between said two tubes to hold said tubes in such relative position that said perforations will not register when no suction is exerted through said smaller tube and means for adjusting said spring to vary the force of compression thereof.

1,338,399. HYDRAULIC MOTOR FOR CHURN-OPERATING DEVICES. ALPHONSE ROOS, Chicago, Ill. Filed Nov. 6, 1919. Serial No. 336,116. 2 Claims. (Cl. 253—136.)



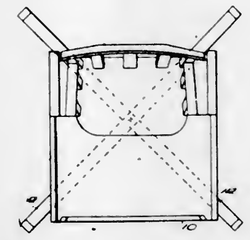
1. In a hydraulic churn operating device, the combination of vertical adjustable supports, a shaft carried by said supports, arms carried by the shaft, buckets carried by the arms, means for successively supplying the buckets with water, whereby the shaft is turned by the weight of the water in the buckets, said buckets being arranged to discharge the water at a predetermined position, a plunger stem, and means operated by the rotation of the shaft for reciprocating the plunger stem.

1,338,400. TRASH - RECEPTACLE. WALTER SACHS, Petersburg, Va. Filed Oct. 14, 1919. Serial No. 330,644. 2 Claims. (Cl. 220—32.)



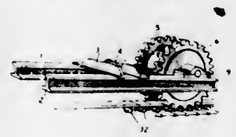
1. In a receptacle, a funnel shaped member supported within the receptacle substantially intermediate the length thereof, said funnel shaped member dividing the receptacle into upper and lower compartments, coöperating flanges extending upwardly from the bottom of the lower compartment, said flanges being disposed in spaced relation with the side walls of the lower compartment, the flanges being disposed directly under the funnel shaped member, a removable receptacle adapted to fit between the flanges, a hinged door forming a part of one wall of the receptacle, and means on the door for contacting with the removable receptacle for holding the removable receptacle under the funnel shaped member.

1,338,401. INFANT-CHAIR. KARL SCHAPEL, Tacoma, Wash. Filed Mar. 1, 1919. Serial No. 280,046. 1 Claim. (Cl. 155—12.)



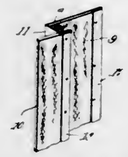
In a chair structure, supporting legs, and base members connected with the legs, said base member being connected with two of the diagonally opposed legs of the chair structure and said members being crossed and connected in the plane of the vertical axis of the chair structure, the terminals of the base members being extended laterally beyond the legs to prevent the chair structure from tipping over.

1,338,402. TRACTOR-TREAD LINK. GEORGE E. SIBBETT, Berkeley, Calif. Filed Jan. 17, 1918. Serial No. 212,167. 2 Claims. (Cl. 21—150.)



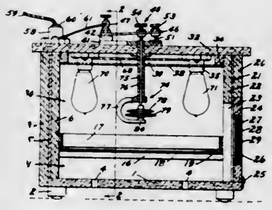
1. A link for endless chain tractors comprising a flat bearing plate having a pair of flanges extending therefrom, said link having a single eye at one end and a double eye at the other end for connecting to the next adjacent links, and a grower plate pivotally connected with the link on an axis parallel to the length of the link.

1,338,403. WEATHER - STRIP. CHARLES H. STARK, Chicago, Ill. Filed Mar. 16, 1917. Serial No. 155,298. 1 Claim. (Cl. 20—69.)



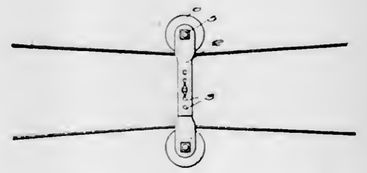
A weather strip comprising a flat rigid base strip having a bend in the direction of its length to form a lateral outstanding flange extending throughout the entire length of the strip, a packing strip attached to the longitudinal edge of the base strip and covering the face thereof from which the flange projects, and a packing strip attached to the extremity of the aforesaid flange, said last-mentioned packing strip being offset relative to the first-mentioned strip and located in advance thereof.

1,338,404. INCUBATOR. RICHARD A. ST. CLAIR, Los Angeles, Calif. Filed July 7, 1919. Serial No. 309,086. 1 Claim. (Cl. 200—61.)



A thermostatic circuit breaker comprising a spring conducting plate rigidly mounted at one end and free at the other end, a binding post at the rigid end of the conducting plate, a rigid contact point rigidly mounted at the free end of the conducting plate, a binding post electrically connected to the rigid contact point, a contact point adjustably mounted through the free end of the conducting plate to engage the rigid contact point, a screw adjustably fixed to the conducting plate intermediate of its ends, a tubular stem extending downwardly in line with the screw, a U-bracket fixed upon the lower end of the tubular stem, a plunger rod slidingly mounted in the tubular stem to engage the adjusting screw, and ether wafers mounted in the U-bracket and operating the plunger rod, so that when the other wafers expand the circuit will be broken and so that when the ether wafers contract the circuit will be closed.

1,338,405. BELT-TIGHTENER. CHARLES L. STICKNEY, Kingman, Ariz. Filed Dec. 17, 1917. Serial No. 207,480. 1 Claim. (Cl. 64—5.)

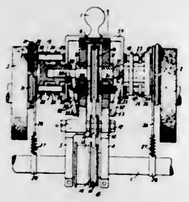


A belt tightener comprising separable side supporting members arranged in coöperating pairs extending in spaced parallel relationship to each other, each of the

supporting members provided with spaced alined openings, means extending through registering pairs of the openings for positively and adjustably securing the pairs together, the free ends of the supporting members being enlarged and provided with bearing openings, antifrictional members carried by the sections adjacent the bearing openings therein, axles journaled in the bearing openings and acted upon by the anti-frictional bearings, rollers arranged on the axles for engaging a belt and having annular recesses for receiving the anti-frictional bearings to support the rollers thereon for the purpose set forth

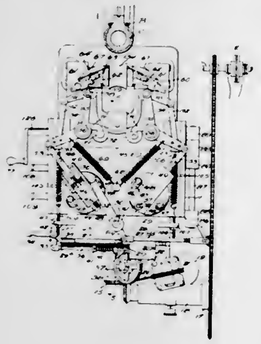
---

1,338,406. JEWEL-GRINDING MACHINE. CECIL STONE, Newark, N. J., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1916. Serial No. 70,429. 14 Claims. (Cl. 51——11.)



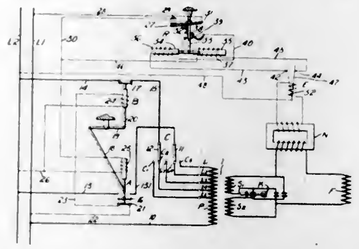
1. In a machine for grinding bearing jewels and the like, the combination with a holder for the objects to be ground, of a rotary grinding member, and means for moving the said holder to bring the said objects into contact with the said grinding member and for imparting an oscillatory and rotary movement to the said holder while the said objects are in contact with the said grinding member.

1,338,407. TIRE-MAKING MACHINE. EDWIN G. TEMPLETON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 27, 1918. Serial No. 264,417. 47 Claims. (Cl. 154—10.)



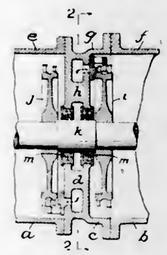
1. A tire-building machine including, in combination, a support, a carriage having a to-and-fro movement thereon, automatic means for effecting advancing and receding movements of the carriage, stitcher-devices carried by the carriage, automatic means for actuating the stitcher-devices in one direction, automatic means for returning the stitcher-devices to starting position, and automatic means settable at the will of the operator during the travel of the carriage for actuating the stitcher-devices to vary their angularity.

1,338,408. CONTROL SYSTEM FOR ELECTRIC FURNACES. FRANK THORNTON, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 29, 1918. Serial No. 242,626. 17 Claims. (Cl. 204—64.)



1. In a control system, the combination with an electric supply circuit including a transformer, and a current-consuming device in circuit with the secondary winding of said transformer, of means for controlling the electricity supplied to said device, said means comprising a thermostat and mechanism controlled by said thermostat for varying the ratio of transformation of said transformer.

1,338,409. STEAM-TURBINE. CARL R. WALLER, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,651. 4 Claims. (Cl. 253—70.)



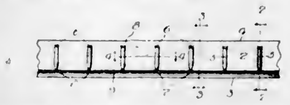
1. A steam turbine comprising a case and a cover, each of said elements comprising semi-cylindrical secured-together sections, namely: a central section and end sections; semi-annular steam chests formed integral with the central sections of the case and cover respectively and abutting one against the other to form two alining halves of a wall dividing the turbine into separate wheel chambers.

1,338,410. WIRE WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed May 5, 1917. Serial No. 166,577. 2 Claims. (Cl. 21—69.)



1. The combination with a hub body, of a body-inclosing sleeve having its outer integral end portion increased in diameter and internally grooved to form an annular recess open only upon the side toward the hub's axis and adapted to receive spoke heads, and a removable annular member filling the inner portion of the groove and concealing the groove and spoke heads therein without destroying the flanged appearance.

1,338,411. METAL FASTENER. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Apr. 24, 1918. Serial No. 230,410. 1 Claim. (Cl. 85—11.)



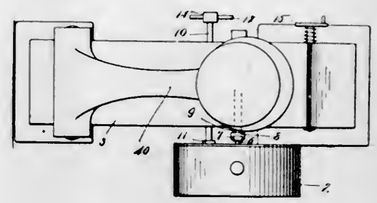
A thin rolled fastener strip having transverse ribs rising abruptly from its broader faces and extending only partly across the strip, whereby the strip has a continuous non-ribbed longitudinal portion along which lifting members may act to separate the strip from the forming rollers.

1,338,412. PRIMARY BATTERY. CHARLES A. NARDELL, Utica, N. Y. Filed Mar. 13, 1919. Serial No. 282,304. 4 Claims. (Cl. 204—29.)



4. A primary dry cell battery, consisting of a plurality of positive elements and a plurality of pairs of negative elements between each pair of which a positive element is disposed, combined with packings of absorbent insulating material at each side of each of said positive and negative elements, a bus bar to which said negative elements are connected, connections between said positive elements, binding posts for said bus bar and said positive element connections, a vessel or container for the said battery elements and parts and an insulating compound by which the top of said vessel or container is sealed, said negative elements each consisting of a flat wire grid and a body of depolarizing paste which is of lesser width than said insulated packing, said grid being partly embedded in said paste and in said insulating packing material.

1,338,413. COMBINED CLOCK AND TIME-STAMP. SIMON AGRANAT, Boston, Mass., assignor to Joseph Levy, Boston, Mass. Filed Apr. 10, 1919. Serial No. 289,058. 1 Claim. (Cl. 234—55.)



An automatic time stamping apparatus of the kind described, comprising a support, a time stamping apparatus carried by the support, and constituting, with the support, a unitary structure, in combination with a commercial unitary time keeping element also mounted on the support at one side of and in close proximity to, the time stamping apparatus, means on the time stamping apparatus to hold, aline, and transmit power from one relatively to the other and comprising a power transmitting shaft extending from the time keeping element to the stamping apparatus, and a winding key extending through the stamping apparatus, whereby the ordinary time keeping clock may be placed on one side of the stamping apparatus and wound from the other side of such stamping apparatus.

1,338,414. SUBSTANTIVE ORTHOOXYAZODYESTUFFS. EUGEN ANDERWERT and HERMANN FRITZSCHE, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed June 11, 1919. Serial No. 303,309. 2 Claims. (Cl. 8—1.)

1. As new products the herein described substantive orthooxyazodyestuffs derived from the diazoderivative of an orthoaminooxyarylsulfonamid compound corresponding to the formula

$$\begin{matrix}(1)\mathrm{HO}\\(2)\mathrm{NH_2}\end{matrix}\!\!>\!\mathrm{R{-}SO_2{-}NHX},$$

(wherein R stands for an aryl radical which may be further substituted and X for hydrogen or an aryl radical) and from a 2 : 5 : 7-aminonaphtholsulfonic compound corresponding to the formula

$$\left[\text{wherein X stands for } \mathrm{C_6H_5{-}},\ \mathrm{C_6H_5CO{-}},\ \mathrm{C_2H_4}\!\!<\!\!\begin{matrix}\mathrm{CO{-}(1)}\\\mathrm{NH_2(3)}\end{matrix},\ \mathrm{C_{10}H_5}\!\!<\!\!\begin{matrix}\mathrm{NH(2){-}CO{-}}\\\mathrm{OH(5)}\\\mathrm{SO_3H(7)}\end{matrix},\ -\mathrm{C_{10}H_5}\!\!<\!\!\begin{matrix}\mathrm{OH(5)}\\\mathrm{SO_3H(3)}\end{matrix}\right.$$

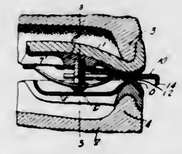
or

$$\left.\mathrm{C_2H_4}\!\!<\!\!\begin{matrix}\mathrm{CO(1)}\\\mathrm{NH(3){-}CO{-}NH(3')}\end{matrix}\mathrm{C_6H_4{-}CO(1'){-}NH(2'')}\!\!<\!\!\begin{matrix}\\\mathrm{HO(5'')}\end{matrix}\mathrm{C_{10}H_5{-}SO_3H(7'')}\right],$$

which constitute, in a dry state, brown powders, dissolve in dilute acids with red to violet colorations, in dilute alkalis with claret-red to blue-violet colorations and in concentrated sulfuric acid with red to violet colorations, dye unmordanted cotton direct tints sensitive to alkalis and to acids and produce by their treatment with coppering agents on the fiber copper compounds of claret-red to blue-violet pure tints fast to alkalis and to acids and extraordinarily fast to light.

1,338,415. DENTAL APPLIANCE. DAVID WILLIAM BARROW, Chattanooga, Tenn. Filed Sept. 3, 1919. Serial No. 321,376. 8 Claims. (Cl. 32—6.)

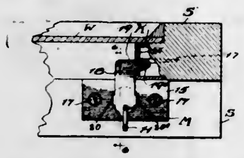
1. A device of the character specified, comprising in combination with the upper and lower bases, of plates adapted to extend across the bases and having grooves at their edges for receiving the bases, a post adjustably connected with the upper plate at the center thereof and upon which the lower plate pivots at its center, said plates



being adapted to receive between them plaster Paris for the purpose specified, and a pair of arched springs connected with the upper plate and adapted to engage the lower plate to hold said plates in proper relative posi-

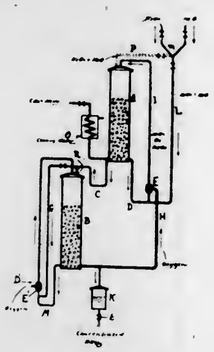
tion, a latch slidable on the upper plate, the springs and the latch having interengaging means for holding the springs in inoperative position, said means comprising extensions on the spring engaging beneath the latch, and the latch having notches for permitting the passage of the extensions when said notches and extensions are in register.

1,338,416. WINDOW-LOCK. RAY BELLINGER, Chicopee Falls, Mass. Filed July 24, 1919. Serial No. 312,918. 1 Claim. (Cl. 292—241.)



A window lock, comprising a keeper including a channel bar having openings formed therein at intervals, a locking member including a casing, a lever, arms formed on said lever and extending through said casing, springs mounted in said casing and engageable with said arms, a disk secured to said arms and disposed within said casing, a bill formed on said lever and adapted to be inserted in any one of the openings in said keeper, said bill being formed with an inclined edge which engages one of the walls of said openings, and a handle formed on said lever for actuating the same.

1,338,417. MANUFACTURE OF CONCENTRATED NITRIC ACID. EINAR BERGVE, Notodden, and OLAF JENSEN, Christiania, Norway, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Sept. 30, 1918. Serial No. 256,249. 4 Claims. (Cl. 23—1.)



1. Process for the manufacture of concentrated nitric acid which consists in maintaining currents of a nitrogen oxid, oxygen and an aqueous reaction liquid in contact with each other through a series of reaction spaces under a superatmospheric pressure, the current of oxygen being caused to pass in parallel to the aqueous reaction liquid through each of the individual reaction spaces, whereas the oxygen is supplied to the series of reaction spaces considered as a unit in the reversed order of succession to that of the reaction liquid.

1,338,418. PROCESS OF CONCENTRATING NITRIC AND SULFURIC ACID. ANTON CHRISTIAN BOHRE, deceased, Christiania, Norway, by Katharina Charlotte Bohre, executrix, Bergen, Norway. Filed July 28, 1919. Serial No. 313,849. 2 Claims. (Cl. 23—1.)

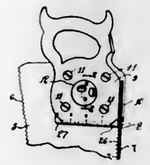
1. Process for the concentration of nitric or sulfuric acid comprising the steps of passing hot nitrous gases in contact with the acid to be concentrated, condensing the resulting vapors by passing the mixture of gases and vapors in contact with a cooling liquid, and thereupon lowering the temperature of the so used cooling liquid by passing a current of gas through the same so as to prepare it for further use as a cooling liquid.

1,338,419. METHOD OF MAKING FLANGED ARTICLES. JOHN J. CAIN, Bayonne, N. J. Filed Apr. 30, 1918, Serial No. 231,664. Renewed Sept. 18, 1919. Serial No. 324,576. 7 Claims. (Cl. 29—157.)



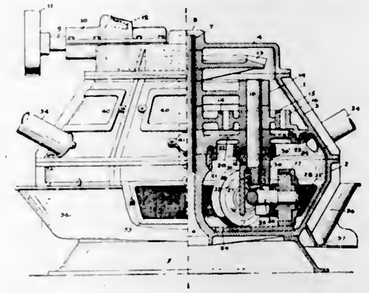
1. The method of making flanged articles, which consists in first forming up the flanges or sides from a sheet metal blank and then by pressure applied to the edges of the flanges or sides, with the article held in a shaping mold, restoring the bends at the angles of the sides and body, stretched or distorted by the forming process, to the normal thickness of the metal.

1,338,420. COMBINATION HAND-TOOL. GEORGE BYRON CALDWELL, Ottawa, Ontario, Canada. Filed Feb. 4, 1920. Serial No. 356,206. 2 Claims. (Cl. 7—13.)



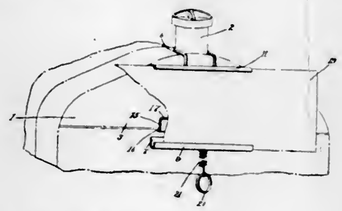
1. An article of the class described, consisting of a saw blade, one side of said saw blade being provided with cutting teeth, the opposite side of said blade having numerals impressed thereon, a handle having its butt end bifurcated, the end of said saw blade being suitably held in said bifurcated end, oppositely registering openings in the respective sides of said handle, a T shaped opening in said blade between said openings, levels positioned in said T-shaped opening, suitable plates in said openings to hold said levels in said saw blade, the level in the top of the T-shaped opening being parallel to the side of the saw on which said numerals are impressed, the other level being parallel to the butt end of said handle.

1,338,421. PULVERIZING APPARATUS. ROBERT H. CHALLACOMBE, San Francisco, Calif. Filed May 4, 1916. Serial No. 95,326. 9 Claims. (Cl. 83—45.)



6. In a pulverizing apparatus, a casing, a central vertical shaft within said casing, a master gear rigid with said shaft, a supplementary gear meshed with said master gear, an internal gear formed on the casing and meshing with said supplementary gear, a shaft carried by the supplementary gear, provided with a connecting member, pulverizing rollers triangularly disposed engaging said connecting member and operated thereby.

1,338,422. LICENSE-TAG HOLDER. THOMAS J. CHAPPELL, Casselton, N. D. Filed Aug. 1, 1919. Serial No. 314,624. 2 Claims. (Cl. 40—125.)



1. A holder for license tags for motor vehicles, comprising a yoke, the body of the yoke engaging the filling nipple of the radiator, and arms depending in front of the radiator, a channel plate secured to the lower ends of the arms, a channel plate slidable on the arms toward and from the first named plate, said plates being adapted to engage the license tag, a third channel plate in rear of the arms and adjustably connected with the second named plate to be moved toward and from the same and adapted to engage beneath the lower edge of the upper shelf of the radiator.

1,338,423. FENCEPOST. GEORGE BENJAMIN CLARKE, Keremeos, British Columbia, Canada. Filed Sept. 18, 1919. Serial No. 324,502. 1 Claim. (Cl. 256—52.)



A metallic fence post being formed from sheet metal and having its sides grooved rearwardly, one end of said post being slotted and bent at right angles to the main part of the post so as to form a retainer against displacement of the post, a perpendicular retainer slidably positioned on said post, concaved sections formed longitudinally on the outer face of said post, pairs of horizontally concaved sections, said concaved sections being adapted to hold horizontal strands of wire pinned between said post and said retainer without the wire being kinked, tightener wires between said post and said retainer, the ends of said wires being tightened and bent around the sides of said post and the center of said wires being frictionally engaged with said retainer to hold the same in position against normal displacement.

1,338,424. SHAVING-BRUSH. JOHN T. COONEY, Providence, R. I. Filed Apr. 9, 1917. Serial No. 160,811. 1 Claim. (Cl. 15—38.)

A shaving brush consisting of a bunch of fibrous strands, confining means engaged about the strands intermediate of their ends, said strands being doubled upon themselves at opposite sides of the confining means to bring the end portions of the bunch together in parallel relation, and a second confining means engaged about the doubled portions of the bunch at a point spaced considerably from the free end of the strands and from the first mentioned confining means, to form a handle portion and a brush portion at opposite sides of said second confining means, the said fibrous strands being twisted torsionally between the two confining means.

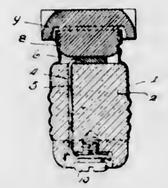


1,338,425. METHOD OF STRETCHING AND SECURING WIRE. THOMAS H. COULTER, Lytle, Tex. Filed June 25, 1918. Serial No. 241,844. Renewed Mar. 5, 1920. Serial No. 363,595. 2 Claims. (Cl. 140—111.)



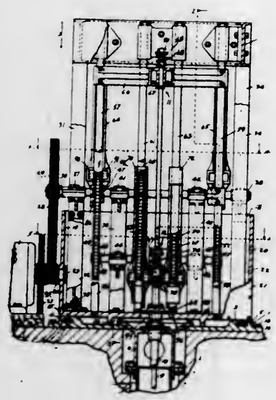
1. A method of tightening and connecting two flexible members, which consists in fashioning a first loop in one member; fashioning a second loop in the other member; connecting the bend of a U-shaped tie with the first loop; passing the arms of the tie through the second loop; twisting one arm of the tie around a tightening device at the second loop to draw the flexible elements together; bending the other arm of the tie backwardly across the second loop and connecting said other arm with the body of the tie between the loops; untwisting the first specified arm from the tightening device; bending the first specified arm backwardly across the second loop; and connecting the first specified arm with the body of the tie between the loops.

1,338,426. FUSE-PLUG. ARTHUR S. DEEM, Reading, Pa., assignor of one-half to Charles A. Brossman, Reading, Pa. Filed June 6, 1919. Serial No. 302,207. 1 Claim. (Cl. 200—130.)



In a fuse plug, the combination with a body having an opening therethrough, a casing inclosing the body, said casing having an internally screw-threaded upper portion, a fuse located within the said opening, said fuse having an integral disk adapted to be engaged by a screw at one end, a cap adapted to screw into the upper portion of the casing and to engage and secure the said disk.

1,338,427. MECHANICAL MOVEMENT. EDWARD M. DOHERTY, Los Angeles, and JOHN H. JEFFRIES, Inglewood, Calif. Filed Feb. 12, 1919. Serial No. 276,694. 2 Claims. (Cl. 74—14.)



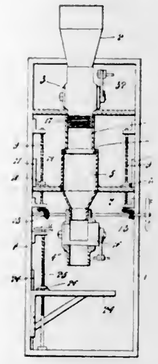
1. A mechanical movement comprising a power shaft having a sprocket wheel; a second shaft spaced from the power shaft and having a second sprocket wheel; a cross-head comprising two plates connected together forming a parallel opening between, each plate carrying a transverse slot opening inwardly, the cross-head being adapted to be mounted upon the sprocket wheels with the operating chain within the central opening, there being longitudinal slots in each plate forming the cross-head adapted to receive two shafts; a chain mounted upon the two sprocket wheels; a pair of slides, one mounted upon either side of the chain and pivotally connected therewith and adapted to slidably operate in the transverse slots of the cross-head; and means for guiding the cross-head in its movement set up by the operation of the chain over the sprocket wheels.

1,338,428. PROCESS OF TREATING ALUNITE. WILLIAM F. DOWNS, Chatham, N. J. Filed Dec. 14, 1917. Serial No. 207,085. 5 Claims. (Cl. 23—13.)

1. The method of obtaining the potassium and aluminum values from alunite, which consists in first subjecting powdered alunite to a dilute mineral acid bath to remove its acid-soluble impurities, and then subjecting the so-cleaned alunite, after mixing with an alkali-metal oxid compound, to the action of heat below the temperature of the evolution of SO_3 fumes, about 500° C.; then, after dissolving in water and filtering the solution of sulfates and other water-soluble salts, subjecting the insoluble portion to a higher temperature, about 950° C., after mixing with it sufficient sodium carbonate to satisfy the alumina present as sodium aluminate; and finally dissolving the water-soluble sodium aluminate from the insoluble impurities of this re-heated portion, and recovering the aluminum values from this solution.

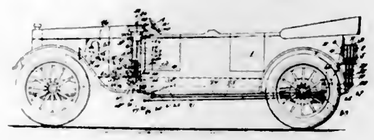
1,338,429. RECEPTACLE FILLING AND MEASURING MACHINE. EDWARD J. FALKINER, Wellington, New Zealand. Filed July 22, 1915. Serial No. 41,282. 5 Claims. (Cl. 226—108.)

1. A machine of the class described, in combination, adjustable telescopic measuring devices, supply vessels, taps on the outlet ends of said supply vessels, cylindrical walls forming the upper parts of said measuring devices threaded upon the outlet ends of said taps for fine adjustment of the capacity of the measuring devices, the lower ends of said cylindrical walls having conically flared rims, said rims fitting the lower parts of said measuring devices,



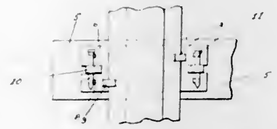
and taps controlling the outlet of the lowermost parts of said measuring devices, substantially as set forth.

1,338,430. TRAFFIC-SIGNAL FOR AUTOMOBILES. ANTHONY W. FERNANS, Pawtucket, R. I. Filed Dec. 27, 1919. Serial No. 347,742. 14 Claims. (Cl. 116—53.)



1. In a traffic signal as set forth, the combination with right and left direction indicators, of a signaling horn including an operating lever therefor, a mechanism operatively connected to the right and left direction indicators, and means connected to parts of said mechanism and to said operating lever of the horn, whereby the horn may be sounded before the display of either one of the indicators.

1,338,431. TIE-PLATE. FRANK E. FITZPATRICK, Fond-du Lac, Wis. Filed Oct. 20, 1919. Serial No. 331,909. 4 Claims. (Cl. 238—291.)



2. In a tie plate, a base, lugs stamped from the plate, and extending in opposite directions, tongues stamped from the plate, said tongues being disposed adjacent the ends thereof, and being curved downwardly, said plate having spike receiving openings, and said tongues adapted to receive securing means, which securing means is adapted to engage spikes positioned within the spike receiving openings.

1,338,432. SEWER-TRAP. LOUIS S. FOERDEREU, Indianapolis, Ind. Filed June 21, 1917. Serial No. 176,226. 1 Claim. (Cl. 182—12.)

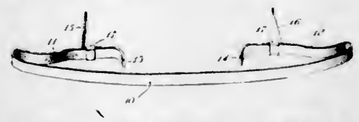
In a sewer trap appliance comprising a shell threaded in its top portion and constituting a vessel adapted to be connected to an overflow pipe, the side wall of the vessel

being integrally continuous but having an aperture therein, the combination of an intake box comprising a flat bottom and a flat top and also a low side portion integral with said vessel side wall at said aperture, said bottom and top being each broader than the vertical width of



said side portion and being longer longitudinally than transversely, a continuous neck ring on the upper side of said flat top integral therewith to receive an intake pipe, and a narrow rib on the upper side of said flat top integral therewith and integrally connected to the side wall of said vessel and to said neck ring.

1,338,433. AUTOMOBILE-BUMPER. WALTER S. FRAZIER, Aurora, Ill. Filed Jan. 2, 1920. Serial No. 348,747. 6 Claims. (Cl. 293—55.)



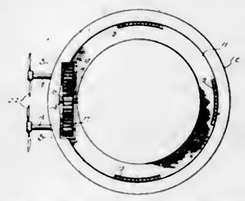
2. A bumper for an automobile comprising a transversely-extending resilient bar, arms formed integrally therewith and extending inwardly along said bar, and a post interposed between the arm at each end of the bumper and said bar substantially at right angles thereto, being supported by one of said parts and standing normally out of contact with the other, said posts being adapted by direct contact between the bar and the arms to afford a positive support from said arms to said bar.

1,338,434. SHOE-POUNDING MACHINE. ALBERT F. FROUSSARD, St. Louis, Mo. Filed Apr. 16, 1919. Serial No. 290,547. 3 Claims. (Cl. 12—33.)



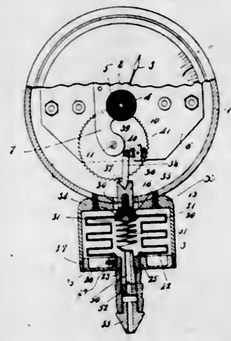
2. In a shoe pounding machine, the combination with a rotary member, of a cam carried by said rotary member, a sliding member actuated from said cam, a shoe hammer pivotally carried by said sliding member to swing in a vertical plane, an arm arranged below said shoe hammer and also pivoted to swing in a vertical plane, and a heating device for the shoe hammer carried by said arm.

1,338,435. DRIVING MECHANISM FOR AIRPLANES. FRANK GLATZ, Kansas City, Mo. Filed June 12, 1919. Serial No. 303,706. 1 Claim. (Cl. 244—25.)



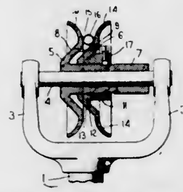
A driving mechanism for airplanes, consisting of a bed member having an annular channel in its upper side and a pit excavation in the channel, a flat ring-shaped gear device operating in the channel in said bed member and having cogs or teeth on its upper and on its lower sides, oppositely disposed independently operated crank shafts mounted on the upper side of said bed member and having gears engaged by the cogs on the upper side of said ring-shaped gear device, a plurality of propeller shafts revolubly mounted in said bed member and projecting outwardly therefrom and provided with propellers and within the bed member with gears, power receiving and power imparting devices operating between said propeller shafts and the lower side of said ring-shaped gear device, and means for turning said crank shafts in opposite directions.

1,338,436. PRESSURE-INDICATOR. JOSEPH A. GREEN, Providence, R. I. Filed Feb. 25, 1919. Serial No. 279,082. 4 Claims. (Cl. 73—110.)



1. In a pressure indicator of the kind described, a dial, an indicating hand arranged for rotative movement over said dial, a diaphragm adapted to receive variations in fluid pressure and means to transmit the variations in movement in said diaphragm to the indicating hand, comprising a gear wheel carrying a fixed block, a sleeve slidable within said block, a rod adapted to swivel within said sleeve and a movable link from said rod to a member carried by the diaphragm.

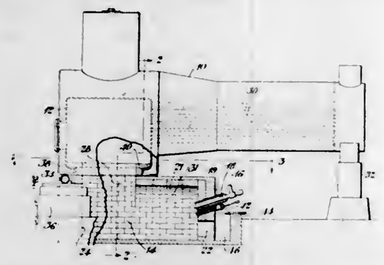
1,338,437. STAND OR SUPPORT. CHESTER W. GREENE, Lynn, Mass., assignor to Francis G. Gale, Waterville, Canada. Filed Mar. 22, 1917. Serial No. 156,554. Renewed Sept. 19, 1919. Serial No. 325,033. 2 Claims. (Cl. 248—41.)



1. In a support for rods or tubes, the combination with a stand, of a supporting roll journaled thereon and presenting two sections forming between them a tube-receiving groove, said sections being adjustable relative to each other thereby to vary the size of the groove and being constructed to support different sizes of tubes or rods with their axes at the same elevation.

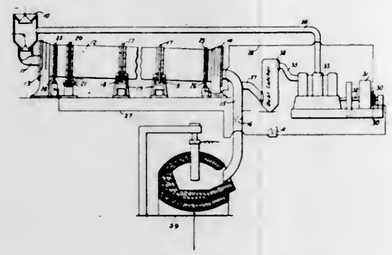
2. In a support for a tube or rod, the combination with a stand, of a supporting roll journaled therein and provided with two flanges forming between them a tube-receiving groove, said roll comprising a hub carrying one of the flanges and a sleeve adjustably mounted on the hub and carrying the other flange, said sleeve having a conical tube-positioning surface at the base of the flange carried thereby.

1,338,438. BOILER-FURNACE. BENJAMIN GREENFIELD, Bartlesville, Okla. Filed Oct. 16, 1919. Serial No. 331,053. 11 Claims. (Cl. 158—1.)



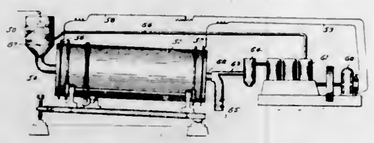
1. A boiler furnace comprising a sub-furnace, a heat absorbing and reflecting arch covering the forward part of said sub-furnace, a boiler having a fire box covering and communicating only with the part of said sub-furnace not covered by said arch, and means for introducing fuel and air beneath said arch.

1,338,439. METALLURGICAL METHOD AND APPARATUS. GUYON F. GREENWOOD, Georgeville, Quebec, Canada. Filed July 19, 1918. Serial No. 245,692. 23 Claims. (Cl. 204—64.)



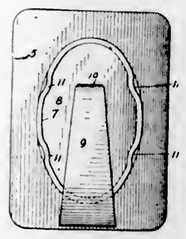
2. A method of reducing oxid ores which comprises reducing the oxid by means of carbon and heat with exclusion of air, at a temperature and pressure less than atmospheric favoring the production of carbon monoxid, removing the carbon monoxid and burning it to carbon dioxid, and utilizing the available energy of the reaction to develop and supply an electric current for furnishing heat to the reduction operation.

1,338,440. PRODUCTION OF LEAD. GUYON F. GREENWOOD, Georgeville, Quebec, Canada. Filed July 23, 1918. Serial No. 246,318. 15 Claims. (Cl. 204—64.)



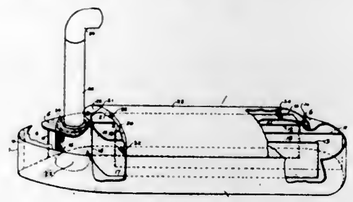
12. A system of reducing sulfid ores comprising the combination of a roasting furnace constructed to suck out the sulfurous gas and draw air through the charge by the same action and having an electric heating element therein, a reducing furnace arranged to receive the resulting oxid ore from said roasting furnace with suitable additions of carbon from the outside, said reducing furnace being constructed to exclude air and having an electric heating element therein, means for regulating the temperature and pressure so as to facilitate the production and removal of carbon monoxid gas, a suitable gas engine, and an electric generator operatively connected to said gas engine and electrically connected to said heating elements in said furnace.

1,338,441. EASEL PICTURE-FRAME. REUBEN HALEY, Beaver, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1917. Serial No. 205,489. 1 Claim. (Cl. 40—154.)



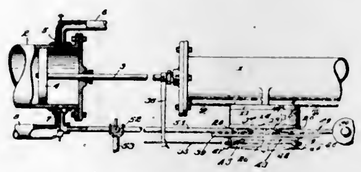
An article of manufacture comprising a glass picture frame, an integral, picture-covering portion adapted to receive a picture having a curved outline and provided with a rim surrounding said picture-covering portion, said rim having relatively short arcuate portions bent toward the center of the frame to form opposed lugs adapted to retain a picture located therein.

1,338,442. WASHING-MACHINE. WILLIAM B. HALLIDAY, Los Angeles, Calif. Filed June 24, 1919. Serial No. 306,432. 1 Claim. (Cl. 68—30.)



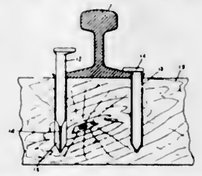
A washing machine comprising a flat top, a wall extending downwardly from the edge of the flat top and having an inlet opening, walls extending downwardly from the flat top within the first wall and forming a tortuous passage leading from the inlet opening to a well portion, a flue extending upwardly from the well portion, and a secondary top mounted above the flat top and forming an inclosure having low inlet openings and high outlet openings.

1,338,443. WATER VALVE-GEAR FOR PUMPS. RUBIN C. HAWKINS, St. Louis, Mo. Filed Nov. 1, 1919. Serial No. 334,971. 3 Claims. (Cl. 103—67.)



1. A water-driven pump, comprising a power-cylinder, a pump-cylinder, pistons in said cylinders, a piston-rod which connects said pistons so they will move in unison, a valve-chest on said power-cylinder, there being suitable ports leading from the interior of said valve-chest to the interior of said power-cylinder on opposite sides of the piston thereof, two valve-seat disks provided with ports which register with said valve-chest ports, and removably fixed in said chest, a rockable disk having ports which are placed in communication with the ports of said two seat-disks as well as with the ports of said power-cylinder, said rockable disk being mounted in the space between the said two valve-seat disks, and adapted when rocked to distribute the power-water alternately to opposite ends of said power-cylinder and to control the exhaust-water therefrom; and means connected to some reciprocating part of the pump for rocking said disk.

1,338,444. PLUG FOR RAILROAD-TIES AND THE LIKE. ADAM HEIM, Liberty, Ind. Filed June 21, 1919. Serial No. 305,786. 2 Claims. (Cl. 238—371.)



1. A railroad tie plug comprising a plurality of wooden strips adapted to be inserted adjacent each other in the holes to be plugged, with oppositely beveled ends on each of said strips whereby when placed together one end will be pointed and the other end recessed.

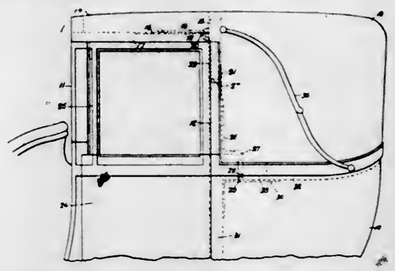
1,338,445. WINDOW-SUPPORT. WILLIAM A. HENDERSON, Larchmont, N. Y. Filed June 11, 1919. Serial No. 303,398. 5 Claims. (Cl. 296—48.)



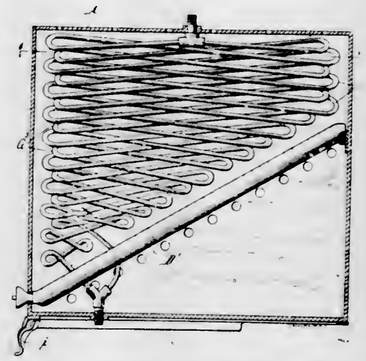
4. In a window glass support, the combination of a window glass adapted to fill an aperture and drop into a pocket, a lever pivoted upright in the pocket and having a head to support the glass, an adjusting screw for the lever, a spring to force the lever against the screw, a plunger to shift the lever and allow the glass to drop into the pocket, friction means at the sides of the glass, and a strap to elevate the latter.

1,338,446. VEHICLE-TOP. WILLIAM A. HENDERSON, Larchmont, N. Y., assignor to Holbrook Company, New York, N. Y., a Corporation of New York. Filed Mar. 29, 1917, Serial No. 158,220. Renewed Jan. 13, 1920. Serial No. 351,256. 1 Claim. (Cl. 296—109.)

In a vehicle top, the combination with a vehicle frame comprising door posts and horizontal members and having pockets, angular hinge members secured to the posts and horizontal members within the pockets, bow members, coöperating off-set hinge members carrying the bow members and adapted to throw them backward when lowered, upper hinge members concealed within the bow members, side bars for the top and connected with the upper hinge members, and a second set of upper hinges to control the movement of the horizontal members or side bars of the top.
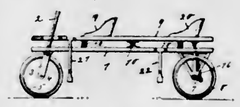


1,338,447. WATER-HEATER. MAURICE HERBERT COWAN, Brooklyn, N. Y. Filed Feb. 15, 1919. Serial No. 277,138. 1 Claim. (Cl. 122—356.)



A water heater embodying an upstanding casing, a gas burner extending transversely of the casing and inclined upwardly in a diagonal direction interiorly of the casing, a water inlet and a water outlet, one at the top and one at the bottom of the casing, and a plurality of tubes connecting said water inlet and outlet, said tubes being formed into superimposed alternately interposed figure-8 shaped hooks of progressively greater dimensions from the lower portion of the casing upwardly to a point above the uppermost portion of the burner, while the remaining superimposed loops are of substantially the same dimensions one to another, whereby maximum heat may be supplied to maximum radiating surface of the tubes in a relatively small and compact heater.

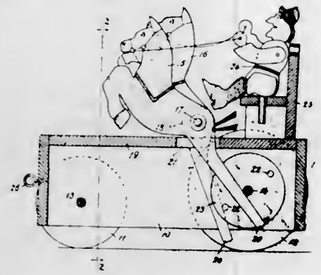
1,338,448. HOBBY-HORSE OR SIMILAR ARTICLE. SOMA HERZOG, New York, N. Y. Filed Apr. 18, 1918. Serial No. 229,267. 1 Claim. (Cl. 208—165.)



A hobby horse or similar article comprising a relatively low truck frame, a cranked driving axle journaled there-

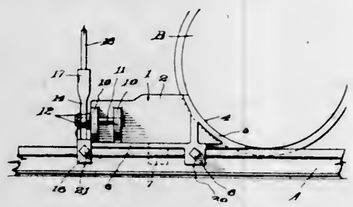
on, a teeter board pivotally mounted upon said frame, said teeter board in its normal position being parallel to said frame, front and rear seats upon said teeter board located respectively upon opposite sides of the pivot of said board, a pair of front stirrups depending from said teeter board in coöperative relation to said front seat, a pair of rear stirrups depending from said truck frame in coöperative relation to said rear seat and a connection from said teeter board to said cranked axle.

1,338,449. TOY. SOMA HERZOG, New York, N. Y. Filed Sept. 15, 1919. Serial No. 323,846. 3 Claims. (Cl. 46—45.)



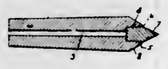
1. A toy comprising a supporting body, an axle rotatably mounted thereon, wheels carried by said axle, a figure pivotally mounted upon the body and movable in a vertical plane, said figure being capable of returning to its normal position by gravity, a lever operatively connected with said figure and extending downwardly therefrom and actuating mechanism mounted upon said axle and rotatable in a plane parallel with the planes of rotation of said wheels whereby said lever is periodically actuated to operate said figure and to permit it to resume its normal position by gravity.

1,338,450. RAIL-CLAMP. CHARLES WILLIAM HILL, Forest City, Ill. Filed Mar. 6, 1919. Serial No. 280,985. 10 Claims. (Cl. 104—258.)



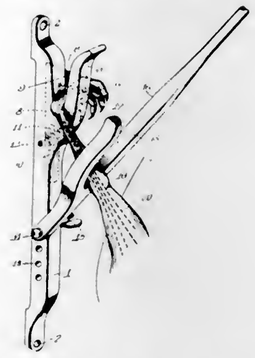
1. In a rail clamp, the combination, with a main body having rail engaging clamps thereon, of a movable clamping member pivotally supported at one end of the body, means for moving said movable clamp into clamping engagement with a rail, and a rail engaging member adjustably carried by said pivoted clamp.

1,338,451. LATHE-CENTER. EDWARD M. HOOVER, Anderson, Ind., assignor to The Hoover Manufacturing Company, Anderson, Ind., a Corporation. Filed Sept. 16, 1917. Serial No. 190,549. 2 Claims. (Cl. 82—33.)



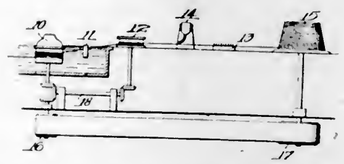
1. A centering device for lathes, grinders or like tools, comprising a centering tool having a longitudinal bore therethrough and a seat concentric with the bore at the forward end of the lathe center, the walls of which are tapered, of a centering point having one portion thereof tapered for engagement with the tapered seat of the centering tool, and the opposite end thereof conical to form a point for engagement with an object.

1,338,452. SINEW AND TENDON EXTRACTING DEVICE. JOHN HUNSINGER, Sr., Detroit, Mich., assignor to Adolph M. Leibowitz, Detroit, Mich. Filed Feb. 5, 1919. Serial No. 275,215. 1 Claim. (Cl. 17—30.)



A device of the character described comprising a wall bar, a claw member adjacent the upper end of said bar adapted for holding a fowl foot, an adjustable pivot bolt carried by said bar adjacent the lower end thereof, an operating lever having the inner end thereof pivoted on said adjustable bolt and supported in the same plane as a side wall of said bar, a claw member carried by the outer side of said operating lever and adapted to receive the fleshy part of a fowl leg so that the leg may be stripped off of the sinews held by the fowl foot, and a clamping member adjustably connected to that side of said bar opposite the operating lever and adapted to be lowered onto the fowl foot to coöperate with the claw member of said bar in holding the foot in said claw member.

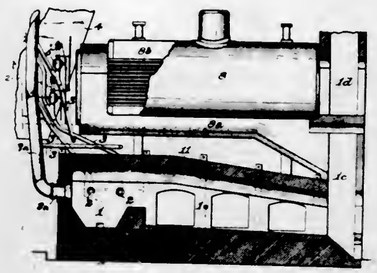
1,338,453. APPARATUS FOR DRAWING AND STRAIGHTENING WIRE. CHARLES O. JOHNSON, Worcester, Mass. Filed Apr. 23, 1919. Serial No. 292,089. 8 Claims. (Cl. 205—16.)



1. In an apparatus for straightening fine wire, the combination with a carrier for receiving the wire and passing it on, and a block on which the wire is wound, of a straightener between them and means for operating the carrier and block at such a ratio as to eliminate all strain on the wire between the straightener and carrier and keep the wire taut.

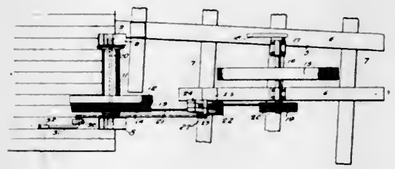
1,338,454. FLUID-PRESSURE APPARATUS FOR BURNING POWDERED FUEL. PATRICK A. LEONARD, MICHAEL F. MALONEY and ERNEST FANDRICH, Schenectady, N. Y. Filed Aug. 16, 1919. Serial No. 317,979. 6 Claims. (Cl. 110—28.)

1. The combination, with a furnace, of means for forcing thereinto a jet of commingled powdered fuel and air; means for delivering a jet of air under pressure into the furnace, in line with, and unobstructed from direct impingement against, said first specified jet; and means for



delivering a volume of air under pressure into the furnace, at an angle to the common axial line of said two first specified jets.

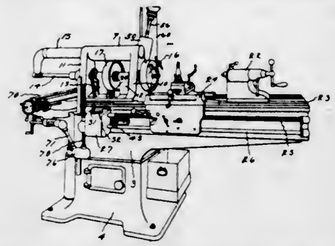
1,338,455. GEARING FOR USE IN OIL-WELL-DRILLING MACHINES. HAROLD JAMES LOCKHART, Parkersburg, W. Va. Filed Mar. 26, 1919. Serial No. 285,174. 1 Claim. (Cl. 74—21.)



In an oil well drilling machine, a band wheel, a calf wheel, a pulley connected with the band wheel to rotate therewith and having a plurality of separate annular grooves, a second pulley connected with the calf wheel for rotation therewith and having a corresponding number of separate annular grooves which are arranged in substantial alinement with the first-named annular grooves, a pivoted support arranged between the pulleys and laterally inclined, tightener pulleys carried by the support, means to angularly adjust the pivoted support, and an endless cable embodying a plurality of upper and lower runs, the cable engaging within the two sets of annular grooves and having the top runs parallel, said cable having one of its lower runs passed about the tightener pulleys carried by the pivotal support, the said lower run passing from the outer groove of one pulley and leading to the inner groove of the other pulley, the lower run engaging within the intermediate groove of the band wheel pulley extending to the inner groove of the calf wheel pulley, and the lower run engaging within the outer groove of the band wheel pulley extending to the intermediate groove of the calf wheel pulley.

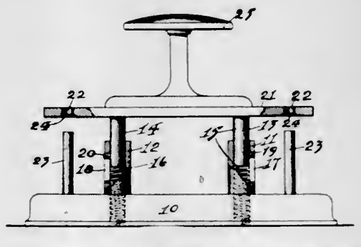
1,338,456. METAL-WORKING MACHINE. WILLIAM C. LORING, Hartford, and CHARLES E. JACOBSON, Manchester, Conn., assignors to A. F. Way Company, Incorporated, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 22, 1919. Serial No. 319,169. 45 Claims. (Cl. 29—27.)

1. A metal working machine comprising a plurality of metal cutting mechanisms, each capable of performing a function different from another of said mechanisms, and each involving a work holder and a tool holder, at least one of the holders being rotary, and means common to the respective mechanisms, by which the mechanism involving



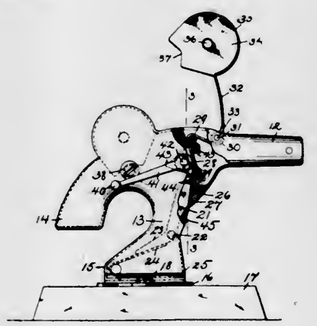
said rotary holder, may be individually put into action or by which a plurality of the mechanisms may be put concurrently into action.

1,338,457. PERFORATING DEVICE. CHARLES F. McBEE, Athens, Ohio, assignor to The McBee Binder Company, Athens, Ohio. Filed Dec. 30, 1918. Serial No. 269,012. 4 Claims. (Cl. 164—94.)



1. A punch comprising a base provided with perforating shafts near it outer end, a plate provided with perforating shafts, beveled orifices near its outer end adapted to receive said perforating shafts, said plate having guide shafts adjacent the inner side of the punch shafts, there being orifices in the base provided with springs adapted to actuate the said guide shafts, said base being provided with posts to receive said guide shafts.

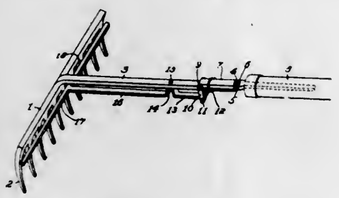
1,338,458. TOY GUN. RUDOLPH B. MICHALEK, Newark, N. J. Filed Aug. 5, 1919. Serial No. 315,413. 4 Claims. (Cl. 42—57.)



1. A toy gun comprising a casing having a support, a hammer pivoted in the support, an extension on the hammer, a spring resting on the bottom of the support and against the extension, a feeding wheel above the support, a set of fingers projecting adjacent to the wheel, a nose

on the hammer disposed so as to be engaged by the fingers successively, a stop in the casing, a bar in the casing, a spring resting against the stop and the bar and having its intermediate portion adapted to form a surface for engagement by a strip of caps engaged by the feeding wheel, and means for rotating the feeding wheel.

1,338,459. SELF-CLEANING RAKE. CLAUDE MOORE, Cedar Rapids, Iowa. Filed June 2, 1919. Serial No. 301,162. 6 Claims. (Cl. 55—146.)



2. In a device of the character described, a pronged rake-head, a supporting-body to which the rake-head is movably connected, and a pronged body linked to said supporting-body, whose prongs traverse the interspaces of the prongs of the rake-head at an angle thereto.

1,338,460. WELL-DRILLING DEVICE. JAMES D. MORRISON, Reinbeck, Iowa. Filed Aug. 22, 1919. Serial No. 319,170. 11 Claims. (Cl. 255—24.)

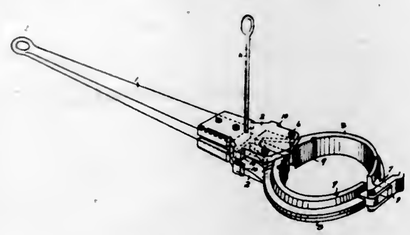


1. In apparatus of the character described, longitudinally spaced rotary boring devices, each device having a passage for a liquid positioned to carry the liquid to the excavating part and thence to a discharging channel, the entrances of the passages in said devices being isolated from each other.

10. The method of treating the wall of a boring into the crust of the earth, which consists in subjecting that part of the wall which extends a relatively short distance above the lower end of the boring while being progressively excavated to a fluid application operating to keep the porosities of that part only of the wall open, and following this operation, by progressively subjecting this treated part in the wall to a fluid application operating to close said porosities.

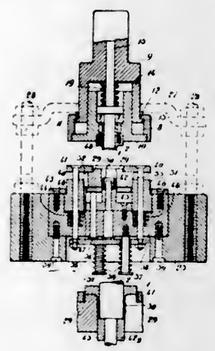
1,338,461. PIPE-WRENCH. JEDDY D. NIXON, Houston, Tex., assignor of one-half to Howard F. Smith, Houston, Tex. Filed Feb. 15, 1919. Serial No. 277,314. 4 Claims. (Cl. 81—66.)

4. A clamp, including a handle, opposing jaws carried by the operative end of said handle and spaced apart, a stop carried by each of said jaws, pipe engaging clamps, one end of each clamp being fitted between said jaws and being provided with an oblong slot, said slots diverging outwardly from the operative end of the handle, bearing bolts whose ends are anchored in the respective clamps, and



which extend through the respective slots, means carried by the operative ends of said clamps for securing them around the pipe to be turned, the inner faces of said slots operating against said bolts when the handle is moved in either direction to engage said clamps with the pipe to be turned.

1,338,462. APPARATUS FOR MANUFACTURING RINGS, ESPECIALLY TRACK-RINGS FOR BALL AND ROLLER BEARINGS. PATRIK SAMUEL RYDBECK, Gottenborg, Sweden. Original application filed July 9, 1918, Serial No. 244,060. Divided and this application filed Oct. 23, 1919. Serial No. 332,794. 4 Claims. (Cl. 78—18.)

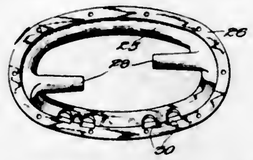


1. Apparatus for producing rings, as for instance track-rings for ball and roller bearings, comprising a die composed of a number of separate jaws movable in relation to each other and, when joined, having inside the shape of the outer side of the ready pressed ring, a counter-die adapted to support one end of a tubular blank, an upsetting ring movable longitudinally in relation to the die and adapted to press against the other end of the blank, and a mandrel movable longitudinally in the upsetting ring and having the shape of the inner side of the ready pressed ring.

1,338,463. STOVE. FRED J. SASS, Peoria, Ill., assignor to Culter & Proctor Stove Co., Peoria, Ill., a Corporation of Illinois. Filed Apr. 24, 1918. Serial No. 230,430. 2 Claims. (Cl. 158—99.)

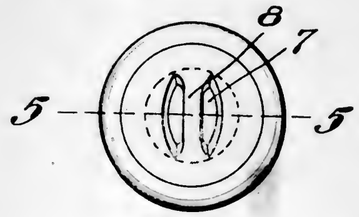
1. In a gas burner, a substantially ring-like hollow gas burner having a gas supply at one side and air inlet openings on its opposite side, a damper on the outer face of the burner for controlling said air inlet openings and a single pair of substantially parallel nozzles projecting interiorly of the burner from the respective opposite sides of the burner, said nozzles being offset and discharging

at substantially the center of the ring-like burner, and the entire remainder of the burner interior being free of



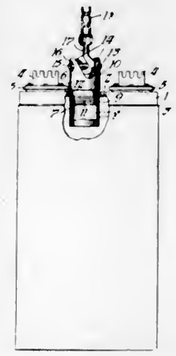
projections or the like so as to allow heat from the burners to freely create swirling eddies at the center of the burner interior.

1,338,464. DOUCHE-TIP. MOLLIE M. SHAFER, Los Angeles, Calif. Filed Sept. 9, 1918. Serial No. 253,171. 1 Claim. (Cl. 128—239.)



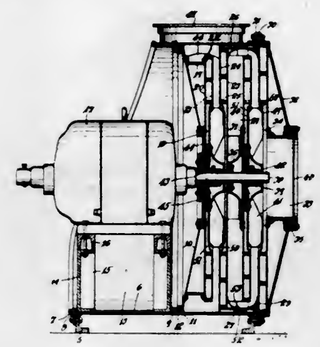
A syringe nozzle comprising a curved flexible and elastic tubular member of uniform diameter throughout having a series of perforations in its wall and adapted to bend to follow the general curvatures of the walls of the cavity into which it is inserted, and a yieldable cupshaped tip inserted in the outer end of said tubular member and vulcanized thereto, said tip formed with elongated end discharge openings and which tip is of greater outside diameter than the inside diameter of the tubular member, said tubular member being expanded at its end to receive the tip.

1,338,465. GALVANIC BATTERY. ROSCOE J. SMITH, Newark, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 22, 1915. Serial No. 68,127. 3 Claims. (Cl. 204—29.)



1. In combination, a battery cell comprising a container, a hollow cylindrical member secured to the top of the container, said member having an internally threaded portion whereby the same is adapted to removably secure a safety device to the cell, and a lifting device for the cell having an exteriorly threaded portion in engagement with the threaded portion of said hollow member, said lifting device being replaceable by such safety device, substantially as described.

1,338,466. ROTARY BLOWER. IRA H. SPENCER, West Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a Corporation of Connecticut. Filed May 28, 1918. Serial No. 236,965. 20 Claims. (Cl. 230—11.)



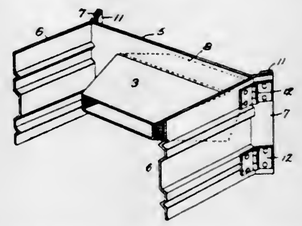
1. A blower comprising a shell, two double-walled partitions located within the shell and forming a fan chamber between them, the walls of each partition being separately formed each from the other and of substantially uniform thickness throughout, a shaft supported within the shell, and a fan secured to said shaft and located within said chamber.

1,338,467. COMBINED TYPEWRITING AND COMPUTING MACHINE. ANDREW W. STEIGER, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1918. Serial No. 253,364. 15 Claims. (Cl. 235—60.)



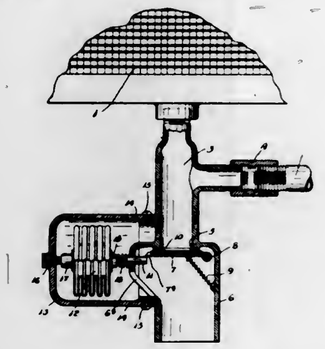
6. In a combined typewriting and computing machine, in combination, printing mechanism, number-indexing mechanism, and key-actuated means for effecting the operation of both the printing and number-indexing mechanisms including devices to permit completion of the action of one of said mechanisms after the other is completed.

1,338,468. MOLD FOR BRICKS AND BLOCKS. STOYAN V. TSANOFF, Newark, N. J. Filed Mar. 28, 1919. Serial No. 285,795. 6 Claims. (Cl. 25—121.)



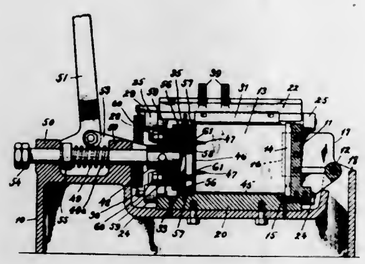
5. In a mold, a frame of three sides having guide flanges adapted to coöperate with another similar frame to form the fourth side of said mold.

1,338,469. THERMALLY-ACTUATED DRAIN-VALVE. SIVERT P. WAAGE and ROBERT WARREN, Minneapolis, Minn. Filed July 24, 1916, Serial No. 110,956. Renewed Sept. 5, 1919. Serial No. 321,963. 5 Claims. (Cl. 137—35.)



5. The combination with a fluid circulating system having a drain vent with an annular valve seat, of a pivoted valve for closing said vent, a compressible gasket interposed between said valve and valve seat, a lock bolt normally holding said valve closed and said gasket under compression, a spring tending to release said lock bolt, an adjustable abutment and a multiplex expansible and contractible diaphragm re-acting against said abutment and said lock bolt and spring, and a housing inclosing said diaphragm and protecting the same from dirt, which housing supports the said adjustable abutment.

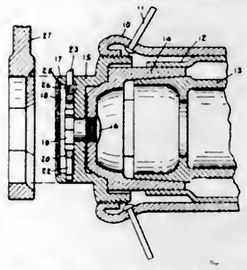
1,338,470. BATTERY-JAR-FORMING MACHINE. JAMES H. WAGENHORST, Akron, Ohio. Filed Sept. 14, 1918. Serial No. 254,088. 29 Claims. (Cl. 18—19.)



1. In a jar-forming machine, the combination of a mandrel, and means for progressively wrapping a sheet of stock about said mandrel without relative movement between said means and the stock.

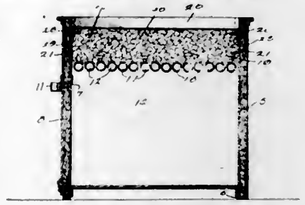
1,338,471. VEHICLE-WHEEL. CLYDE E. WALLING, Frankfort, Ind. Filed Mar. 24, 1919. Serial No. 284,589. 3 Claims. (Cl. 21—31.)

1. The combination with an automobile hub having a locking key and a hub cap, of a locking means for preventing the hub cap from unscrewing from said hub, including an engaging member fixedly secured on said key, a locking member surrounding said engaging member and having a projection for engaging therewith, said locking member being slidably mounted on said hub cap, resilient means for normally holding said locking member in engagement with said engaging member, and means on said locking member in position to be engaged for forcing said members out of engagement against said yielding



means for permitting the unscrewing of the cap from the hub.

1,338,472. PREHEATER. ROBERT WALTON WIEDERWAX, Atlantic City, N. J., assignor of one-half to Carlton Geist, Atlantic City, N. J. Filed Nov. 14, 1919. Serial No. 338,132. 20 Claims. (Cl. 263—9.)

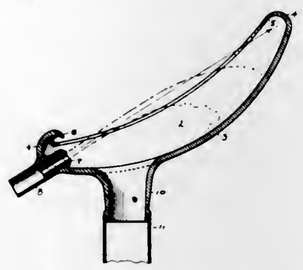


1. In apparatus of the type described, a casing, spaced horizontal air inlet pipes within said casing, gas burner tubes arranged in alternate relation with said air inlet pipes and coacting therewith to form a grid dividing said casing into upper and lower compartments, refractory aggregates disposed within said upper compartment and supported by said grid, and upwardly extending outlet tubes for said burner tubes extending into said refractory aggregates.

1,338,473. PREPARATION OF TITANIUM COMPOUNDS. HERBERT WRIGLEY and HOWARD SPENCE, Manchester, England, assignors to Peter Spence & Sons, Limited, Manchester, Lancaster, England. Filed Feb. 4, 1919. Serial No. 275,014. 15 Claims. (Cl. 23—13.)

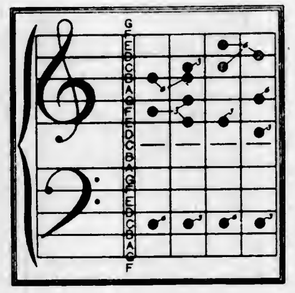
1. The process of obtaining solutions of titanium and iron directly from ilmenite which comprises heating a mixture of ilmenite and sulfuric acid by the injection of steam directly thereto.

1,338,474. DRINKING-FOUNTAIN BOWL. MAXIMILIAN W. WUESTHOFF, San Francisco, Calif., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Filed Aug. 1, 1918. Serial No. 247,714. 5 Claims. (Cl. 299—12.)



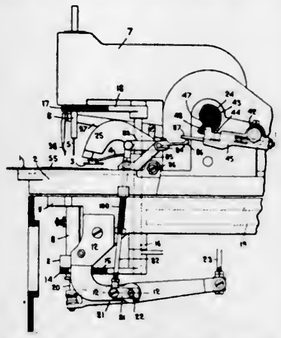
5. In drinking fountain, a bowl and a jet member mounted in said bowl with the axis thereof inclined and pointing on a straight line to a wall of the bowl below the rim thereof so that however great the pressure the stream will under no conditions be projected outside the bowl.

1,338,475. GAME. MICHAEL J. ZA HARIS, Minneapolis, Minn., assignor of one-half to George A. Darnell, Minneapolis, Minn. Filed July 15, 1919. Serial No. 311,102. 2 Claims. (Cl. 46—21.)



1. A game comprising a chart having imprinted thereon parallel horizontal lines in representation of a musical staff, a series of parallel vertical bars crossing said horizontal lines at spaced intervals, two sets of movable notes being respectively of different appearances.

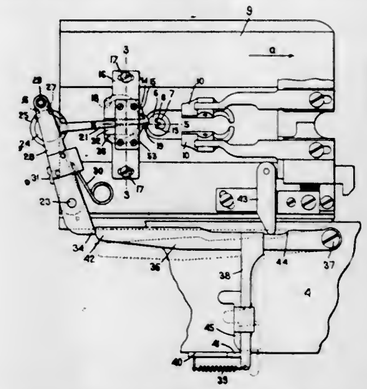
1,338,476. SEWING-MACHINE. FRANK ZALESKI, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Dec. 8, 1917. Serial No. 206,215. Renewed Sept. 13, 1919. Serial No. 323,646. 23 Claims. (Cl. 112—33.)



1. In a sewing machine of the type having stitch-forming mechanism, work-holding means, means to actuate the stitch-forming mechanism to perform a predetermined sewing operation and then bring it to rest, and means to cause the stitch-forming mechanism and work-holding means to have a relative feeding movement, the combination with said work-holding means, of two coöperating cutting elements pivotally carried thereby beneath the work and located in such a position that the under thread is brought into position to be cut during said relative movement, and a toggle device for actuating said cutting elements.

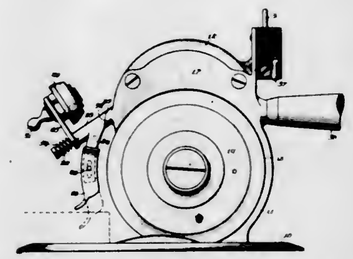
1,338,477. SEWING-MACHINE. FRANK ZALESKI, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Jan. 5, 1918. Serial No. 210,440. Renewed Sept. 13, 1919. Serial No. 323,647. 13 Claims. (Cl. 112—33.)

1. In a sewing machine of the type having work-holding means, stitch-forming mechanism, means to cause the stitch-forming mechanism to perform a predetermined sewing operation and then to come to rest, and means to produce a relative movement between the work-holding means and stitch-forming mechanism during the sewing operation and a further relative movement after the stitch-forming mechanism has been brought to rest, the combination with said work-holding means, of a thread-trimming



device carried thereby beneath the work when the latter is held therein and comprising two coöperating members normally situated in front of the sewing position, and means rendered operative during such further relative movement to move one of the members first to the rear of the sewing position and then back to its initial position again thereby to sever the under thread.

1,338,478. CLOTH-CUTTING MACHINE. MARTIN ZAWISTOWSKI, Brooklyn, N. Y. Filed Oct. 18, 1919. Serial No. 331,568. 17 Claims. (Cl. 164—76.)



1. A cloth cutting machine having a rotary knife and a knife guard disposed in advance of the cutting edge and mounted to swing laterally in either direction from the normal position and about an axis parallel to the plane of the knife.

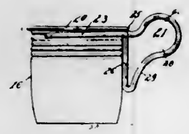
1,338,479. HEAT-TRANSFER APPARATUS. HANS ZIMMERMANN, Philadelphia, Pa., assignor to Schutte and Koerting Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1918. Serial No. 226,352. 4 Claims. (Cl. 257—236.)



2. In heat interchanging apparatus, the combination with a cylindrical casing, of tubes longitudinally disposed

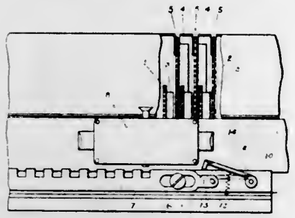
in said casing and arranged in a bank having two of its opposite sides flat and parallel, flow guiding members interposed between the flat sides of the banks of tubes and the adjacent portions of the inner wall of the casing and baffle plates extending transversely to the tubes between the flow guiding members and having their opposite side edges in contact with said flow guiding members arranged to provide a zigzag path through the intertube space repeatedly traversing the tubes and leading from one end of the casing to the other.

1,338,480. CUP AND RELEASABLE HANDLE THEREFOR. GEORGE P. ALTENBERG, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed June 15, 1917. Serial No. 174,937. 5 Claims. (Cl. 215—2.)



1. A releasable handle for the inverted cap of a heat-insulated vessel forming a cup, which consists of a resilient wire of uniform cross-section bent to form a single median resilient grasping portion arranged to extend lengthwise of the axis of said cup, and bow-like stretches extending laterally outward from the respective sides of said grasping portion and arranged to be resiliently received about the cup, the said resilient grasping portion acting resiliently on said bow-like stretches to aid by its resilience in holding the cup.

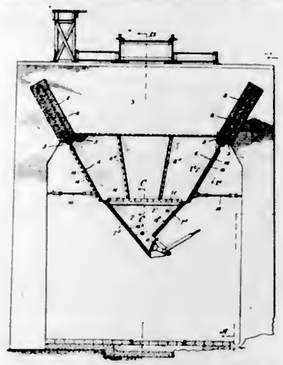
1,338,481. CALCULATING-MACHINE. VICTOR OSKAR JULIUS ANDERSSON, Malmö, Sweden. Filed Aug. 16, 1918. Serial No. 250,159. 2 Claims. (Cl. 235—79.)



1. The combination with a calculating machine having a series of setting disks mounted for rotation on a stationary portion of the machine and a corresponding number of counting wheels mounted for rotation on a carriage adapted to slide relatively to said stationary portion, of coöperating means carried by the stationary portion and carriage for limiting the sliding movement of said carriage and locking all of said counting wheels in engagement with their corresponding setting disks, said means including a rack slidably mounted on said stationary member, a vertically movable pin carried by said carriage and adapted to engage said rack, and coöperating means carried by the rack and stationary member for limiting the sliding movement of said rack.

1,338,482. STORAGE-BIN. ROBERT E. BAKER, Cleveland, Ohio. Filed Mar. 19, 1917. Serial No. 155,885. 3 Claims. (Cl. 189—3.)

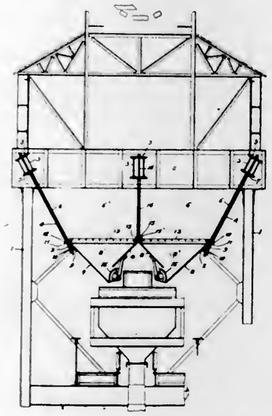
1. In a storage bin, in combination, a supporting structure; a containing member suspended therefrom and rigid at receiving and discharge ends, said containing member comprising an intermediate structure formed with flexible side walls; rigid end plates extending between said side walls and loosely connected to said walls to permit deformation of the walls under variations of load; and end plates extending between the walls of the discharge end and rigid therewith, said last-named end plates conforming in position with the first-mentioned end plates, to form bays, the two end plates being loosely connected and yet forming one effective partition in each instance.



2. In combination, a rigid frame consisting of longitudinal and transverse girders; an intermediate flexible tension structure consisting of flexible side plates fixed to and supported at their upper edges by said longitudinal girders, and of rigid end members supported by said side plates and in easy relation thereto; and also, as a part of the combination, a rigid bottom member, the flexible side plates being firmly secured to the sides of said bottom member, and the end plates being in easy sliding relation to the corresponding ends of the rigid bottom member.

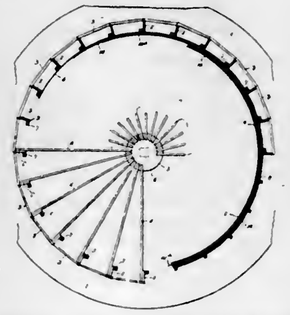
3. A suspension storage bin, comprising the combination of a supporting frame; a containing structure suspended from said supporting frame and including an upper portion and a lower bottom structure, the latter being formed with substantially continuous discharge openings and having transverse diaphragms subdividing the bottom structure and rendering the same rigid; and means secured to said supporting frame and pivotally connected to the upper portion of said containing structure to laterally brace the same, the upper and lower portions of said containing structure being relatively vertically movable, and the upper portion thereof being comprised of flexible tension members.

1,338,483. STORAGE-BIN. ROBERT E. BAKER, Cleveland, Ohio. Filed Mar. 19, 1917. Serial No. 155,886. 6 Claims. (Cl. 189—3.)



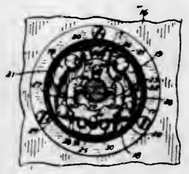
1. In a storage bin, in combination, a supporting structure; a flexible walled intermediate structure suspended therefrom; a partition dividing said intermediate structure, said partition separately supported from the supporting structure; inner side plates supported from said partition, said plates each forming a wall of a series of discharge openings; and coöperating outer side plates supported by said intermediate structure and forming the outer opposing walls of the openings; and end plates rigidly secured to said inner and outer side plates to form therewith a bottom structure.

1,338,484. METHOD OF CONSTRUCTING STORAGE-RECEPTACLES. ROBERT E. BAKER, Cleveland, Ohio. Original application filed Feb. 2, 1916, Serial No. 75,678. Divided and this application filed Apr. 8, 1918. Serial No. 227,291. 2 Claims. (Cl. 72—6.)



1. The method of constructing storage tanks, which consists, in erecting upon a suitable base a temporary support defining a cylindrical space; positioning on the inner face of said support and above said base a plurality of binding tension rods; securing a suitable sheathing to the inside surface of such rods; forming upon the inside of the space defined by such sheathing a concrete facing, secured to the latter and resting upon said base; and then removing said temporary support.

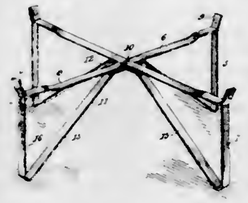
1,338,485. CONTROLLING MECHANISM FOR WINDOW-REGULATORS. LOUIS T. BULLEY, New Haven, Conn., assignor to C. Cowles & Company, New Haven, Conn., a Corporation of Connecticut. Filed Oct. 13, 1919. Serial No. 330,373. 15 Claims. (Cl. 74—16.)



1. A mechanism of the character described comprising a rotatable shaft, a sprocket wheel and a disk fixed to each other and oscillatable on the shaft, a fixed ratchet, pawls carried by the disk and adapted to engage the ratchet, a pawl tripping plate, springs acting to move the tripping plate out of operative position and to cause the pawls to engage the ratchet, and a cross pin in the shaft by which the tripping plate is actuated when the shaft is turned in either direction.

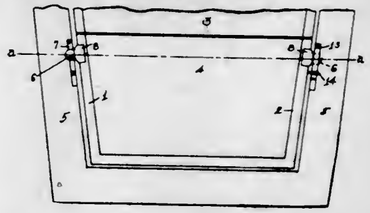
1,338,486. DISHPAN-SUPPORT. ORLO D. BURDICK, Hartford, Conn. Filed Feb. 5, 1920. Serial No. 356,554. 1 Claim. (Cl. 248—41.)

A dish pan support comprising a plurality of strips, a stud extending through the strips to pivotally connect them for transverse relation, the ends of the strips being upturned to form lugs, leg members each comprising a central portion, the central portions being fitted to each other and receiving the stud to connect the leg members to the strips, each of the leg members having downwardly



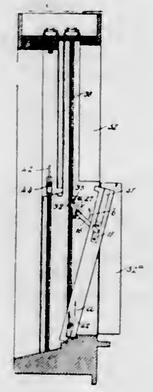
extending diverging portions and then upwardly extending portions united at their upper ends to the lugs, the strips between their ends being downwardly depressed whereby the end portions thereof support the pan.

1,338,487. WINDSHIELD AND HINGE THEREFOR. CLARENCE P. CHAMBERLIN, Birmingham, Mich. Filed Dec. 29, 1916. Serial No. 139,626. 3 Claims. (Cl. 296—92.)



1. In a wind shield, a shield section having side bars positioned at an angle other than a right angle to the top and bottom bars thereof, a frame for the section having side members parallel respectively to the contiguous side of the section, a socket in each frame member, a ball member secured to each side bar and seating in the respective socket, the axis of the ball and support being at a right angle to the side bars of the section and at an angle to the turning axis of the section.

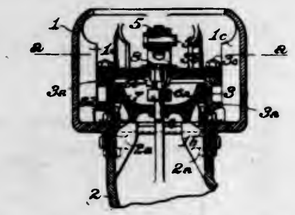
1,338,488. ATTACHMENT FOR WINDOWS AND THE LIKE. JOHN B. CLERMONT, New York, N. Y., assignor to S and S Window Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1917. Serial No. 160,946. 3 Claims. (Cl. 292—272.)



1. The combination of a relatively stationary frame, a window sash or the like vertically and pivotally movable

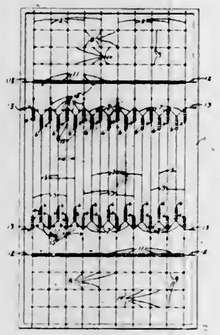
therein, a case carried by said window sash or the like, a bridge pin in said case, a sleeve slidably and rotatably mounted on said bridge pin, a stay arm secured to said sleeve to move therewith, a projection on said arm, a slotted plate secured to said frame, an abutment forming a continuation of said plate and extending into the vertical path of said projection whereby the latter is stopped by said abutment and directed thereby into said slot to swing said arm on said bridge pin and arrest the pivotal movement of the sash or the like, a member rotatably mounted in said case and connected with said sleeve, means for actuating said member to slidably move said sleeve on said bridge pin whereby said arm and projection are moved to and from an operative position and means for locking said member in its adjusted positions.

1,338,489. THROTTLE-VALVE. ROGER W. CLIFFORD and PHILIP J. NICHOLS, Schenectady, N. Y. Filed Oct. 2, 1919. Serial No. 327,949. 4 Claims. (Cl. 277—37.)



2. The combination of an open topped stand pipe; a throttle valve, seating at the top of said pipe and having an internal cylindrical balancing chamber; a balancing piston fitted in said chamber; a pilot valve controlling the admission of steam into said chamber; and means for successively unseating said pilot valve and the throttle valve.

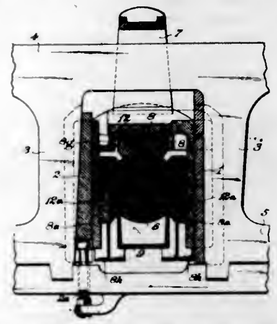
1,338,490. SPRING. ALFRED N. CLOUGH, Sunnyvale, Calif., assignor to Three Leaf Cot Manufacturing Co., Sunnyvale, Calif., a Corporation of Nevada. Filed Aug. 18, 1919. Serial No. 318,276. 3 Claims. (Cl. 5—40.)



1. A spring including sustaining means, a plurality of tension members attached thereto and extending longitudinally thereof and having middle sections resiliently mounted therein in alinement therewith, longitudinally disposed tension members arranged between said middle sections and resilient connections between said last mentioned tension members and said first mentioned tension members.

1,338,491. LOCOMOTIVE DRIVING-BOX. FRANCIS J. COLE, Schenectady, N. Y. Filed Sept. 15, 1919. Serial No. 323,779. 7 Claims. (Cl. 64—20.)

2. The combination, in a locomotive engine, of a frame pedestal; a driving box located therein, and made in two independent sections, comprising members, one of which overlaps the other and rests thereon, with the capacity of relative horizontal movement; three journal bearing sections, disposed in the top and sides, respectively, of the

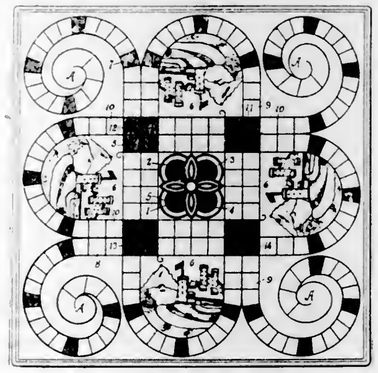


driving box; means for effecting adjustment of the bearing sections, relatively to a common axial line; and a spring saddle, bearing on the top overlapping member of the driving box.

1,338,492. ART OR METHOD OF PRODUCING PHOTOGRAPHIC SCREENS FOR HALF-TONE WORK. HARRY A. CORBETT, New York, N. Y., assignor to Brett Process Screen Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 28, 1916. Serial No. 87,758. 13 Claims. (Cl. 204—8.)

2. The herein described method or art of making photographic screens for half tone work consisting in applying a metallic solution to the surface of a master plate or screen having surface formations thereon, precipitating the metal of said solution upon said surface, forming a matrix by the electro-deposition of metal upon said metallized surface and impressing the design appearing in intaglio upon said matrix upon plastic glass.

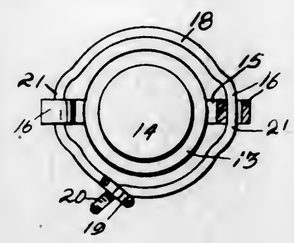
1,338,493. GAME. HORATIO G. CRESS, Troy, Ohio. Filed May 5, 1919. Serial No. 294,833. 5 Claims. (Cl. 46—63.)



1. In a game, a diagram comprising a plurality of dens and a corresponding plurality of homes, circuitous routes leading to said homes, steps and stations upon said routes, men traversing said routes, and number cards to determine the direction and extent of movement of said men.

1,338,494. BOTTLE-STOPPER. ALBERT J. DANIEL, Boone, Iowa. Filed Oct. 13, 1919. Serial No. 330,470. 1 Claim. (Cl. 215—27.)

In a device of the class described, the combination of a bottle stopper having a reduced portion adapted to be projected into a bottle neck, and an annular shoulder to fit against said neck, with a holder strip extending over said stopper, ends projecting below said shoulder and provided with openings, and a resilient ring mounted in said



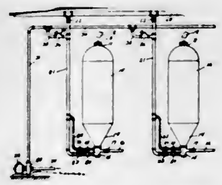
openings to slide freely therein, said ring having opposite portions extending outwardly from the main body of the ring, said ring having at one end a loop and having the other end extended through said loop and terminating in a second loop projecting laterally to form a handle.

1,338,495. BUSHING-REMOVER. WALTER E. DONELSON, Conway, Mass. Filed Sept. 8, 1919. Serial No. 322,487. 4 Claims. (Cl. 29—88.2.)



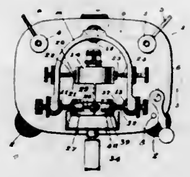
1. In a bushing remover a tapered body portion provided with longitudinal slots, screw threads formed upon said body portion, said threads being of the same depth throughout the length of said body portion, the faces of said threads remote from the entrance of said body portion being at substantially right angles to the axis thereof.

1,338,496. ACID-CHARGING SYSTEM FOR DIGESTERS. FRANCIS J. DOOLEY, Boston, Mass. Filed May 23, 1919. Serial No. 299,152. 3 Claims. (Cl. 92—7.)



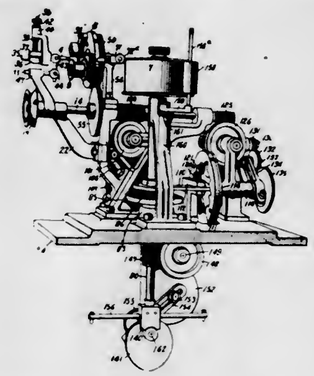
1. An acid charging system for digesters including an acid forcing means disposed below the acid level of the digester, an acid conductor in communication with said forcing means and extended to the digester and in communication with the interior of the digester below the acid level thereof, said conductor having a length thereof elevated above the acid level of the digester, and an acid control valve included in such elevated length of the conductor.

1,338,497. TELEGRAPH INSTRUMENT. THOMAS J. DUNN, Jersey City, N. J. Filed Mar. 22, 1917. Serial No. 156,616. 7 Claims. (Cl. 178—82.)



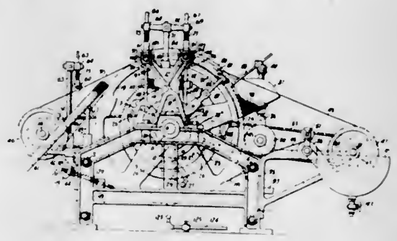
1. In a telegraph sender, the combination with a base, of a vibratory member secured to the base and extending upwardly therefrom, contacts controlled by said vibrator and a finger lever movable parallel to said base and operatively related to said vibrator.

1,338,498. FILAMENT-WINDING MACHINE. CHARLES EISLER, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Dec. 29, 1914. Serial No. 879,483. 44 Claims. (Cl. 153—67.)



1. A wire working machine comprising means for forming a filament into a non-overlapping helix upon a non-rotating mandrel at a predetermined pitch, and means for altering the said pitch at predetermined intervals.

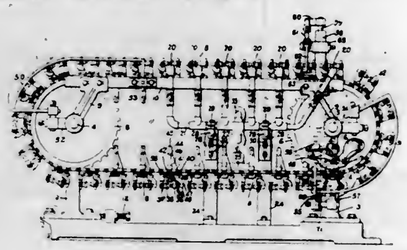
1,338,499. MACHINE FOR MAKING FILAMENT-SUPPORTS FOR INCANDESCENT LAMPS. CHARLES EISLER, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Nov. 12, 1915. Serial No. 61,090. 14 Claims. (Cl. 49—7.)



1. In a machine for forming arbors for incandescent electric lamps, means for successively advancing a series

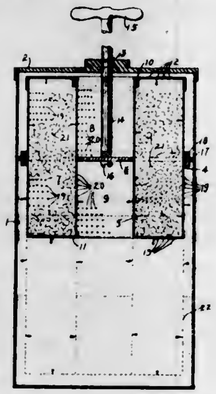
of arbor blanks, means for continuously rotating said blanks during a portion of their advancement, means for heating the rotating blanks locally, and means for applying successive pressures longitudinally to the said heated blanks during the heating thereof, whereby a uniform enlargement is formed on each of the said blanks.

1,338,500. MACHINE FOR MAKING INCANDESCENT-LAMP STEMS. CHARLES EISLER, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed June 6, 1916. Serial No. 101,926. 19 Claims. (Cl. 49—2.)



1. A glass-working machine comprising means for laterally and non-rotatively advancing in a rectilinear path a cylindrical or tubular glass object, means for heating a section of the said object, said heating means being adapted to function so as not to require the rotation of the work, and means for compressing the said heated section.

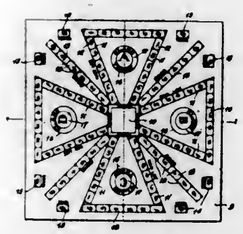
1,338,501. WASHING-MACHINE. REUBEN ERICH, San Jose, Calif. Filed June 30, 1919. Serial No. 307,631. 1 Claim. (Cl. 68—37.)



A washing machine comprising a container having a removable end and a plunger operatively mounted to reciprocate therein, said plunger comprising an operating rod, a perforated basket mounted thereon provided with an annular gasket substantially midway its length and adapted to engage said container, said basket comprising inner and outer perforated walls, a perforated bottom and a perforated removable top, and an inner horizontal partition forming upper and lower compartments within said inner wall.

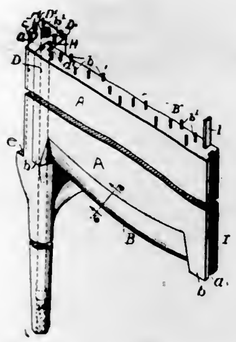
1,338,502. GAME. CONLEY GAY, Middletown, N. Y. Filed Aug. 8, 1919. Serial No. 316,111. 1 Claim. (Cl. 46—63.)

A game designed to be played by playing pieces, disks representing classes and cards having various playing values, comprising a board having imprinted thereon a figure of a Maltese cross, the arms of which being divided into spaces at the edges thereof and said spaces differently numbered and representing the main lines of a railway system, the center of the cross representing "home" and each of the crosses having imprinted therein a disk



with a character similar to that of the first mentioned disks, said board having radial spaced lines provided with transverse divisions between the arms of the cross, the said divisions being numbered from one to six consecutively and representing a siding, and rectangular impressions between the siding and the arms of the cross having characters imprinted thereon and representing towers.

1,338,503. REINFORCED-CONCRETE PILE AND PANEL. EDGAR K. HAND, Chicago, Ill. Original application filed Sept. 2, 1919, Serial No. 321,164. Divided and this application filed Sept. 22, 1919. Serial No. 325,448. 6 Claims. (Cl. 61—39.)

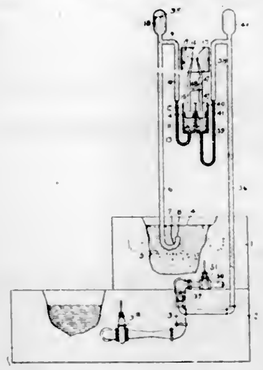


1. A pile of reinforced concrete comprising in combination, a body provided with reinforcing members, a pipe extending longitudinally through said body, and a nozzle at the lower end of said pipe, said nozzle provided with means to impart a whirling motion to water discharged therefrom, and said pile provided with steps adapted to form supports for a horizontally disposed co-acting member.

1,338,504. LOSS-OF-HEAD GAGE. CHARLES A. HUMPHREYS, Bluefield, W. Va., assignor to Pittsburgh Filter Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 19, 1918. Serial No. 240,872. 5 Claims. (Cl. 73—167.)

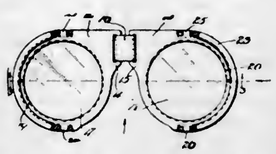
1. In a gage, the combination with a liquid container of a pipe, the lower end of which is submerged beneath the liquid in the container, and the upper end of which is provided with a vacuum chamber, a gage connection communicating with said pipe beneath said vacuum chamber, a float chamber, said gage connection communicating with said float chamber and a portion of said gage connection being filled with a liquid of greater specific

gravity than that of the liquid whose head is to be measured, a float in said float chamber, a finger carried by said float, a record carrier, a stylus carried by said



finger adapted to produce a recording line on said record carrier, whereby variations in the head of the liquid in said container may be indicated and the times at which and during which said variations took place may be recorded.

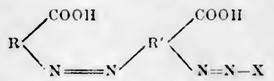
1,338,505. GOGGLES AND THE LIKE. FRANK A. IHRCKE, Chicago, Ill. Filed Mar. 17, 1919. Serial No. 283,239. 2 Claims. (Cl. 2—149.)



1. As a new article of manufacture, a pair of goggles comprising in combination a pair of bridge-pieces of suitable contour to bridge the nose of the wearer, a flexible connection joining the bridge-pieces together, each bridge-piece having its outer portion of suitable contour to provide a circular support for a lens, and a guard for each bridge-piece, each guard being of semi-circular section and adapted to embrace and join together the outer portions of the circular support of the corresponding bridgepiece, and each guard having its edge portion of suitable contour to conform to the face of the wearer substantially as described.

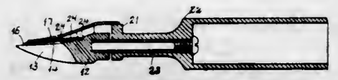
1,338,506. DISAZODYESTUFFS DYEING MORDANTED FIBERS. CARL JAGERSPACHER and MAX ISLER, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Aug. 17, 1918. Serial No. 250,332. 2 Claims. (Cl. 8—1.)

1. As new products the herein described disazodyestuffs dyeing mordanted fibers, corresponding to the formula



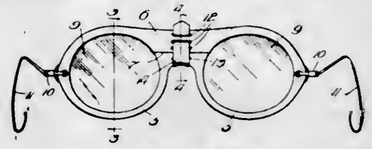
(wherein R and R' stand for aryl radicals which may be substituted and X designs an arylpyrazolone compound able to be combined with a diazobody) constituting in a dry state red to brown powders soluble in water with yellow to violet colorations and in concentrated sulfuric acid with blue-red colorations and dyeing wool in an acid bath orange-yellow to yellow-orange tints, turning, on subsequent chromating, to fast yellow to brown tints and giving, when printed on cotton with chromium mordants, fast yellow to red-orange prints.

1,338,507. HAIR-TRIMMER. WILLIAM A. JAMES, Providence, R. I. Filed Apr. 18, 1919. Serial No. 291,026. 2 Claims. (Cl. 30—12.)



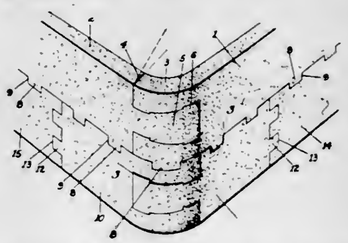
1. A hair-trimmer comprising a comb having elongated teeth and a shank fixed to and projecting rearwardly from the back of the comb, a blade bearing on said seat with its cutting edge spaced backwardly from the points of the teeth, a two-armed lever fulcrumed on the comb, the outer arm of said lever projecting over the blade seat, and adjustable means carried by said shank and cooperating with the inner arm of said lever to push the outer arm against the blade and clamp the blade against said seat.

1,338,508. GOGGLES. GEORGE S. JOHNSTON, Evanston, and FRANK A. IHRCKE and CYRUS A. PARTENHEIMER, Chicago, Ill., assignors to George S. Johnston Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 1, 1919. Serial No. 314,754. 5 Claims. (Cl. 88—41.)



1. A goggle having a one-piece frame formed to provide two eyes and a connecting bridge, the bridge having a slit extending between the eyes, and having slots formed in its body on opposite sides of the slit, and a means of connection extending between the slots on opposite sides of the bridge whereby said portions are held together, substantially as described.

1,338,509. REINFORCED-CONCRETE BUILDING-BLOCK. GUSTAF ADOLF JOHNSON, Manteca, Calif., assignor of one-half to R. M. Olmsted, Manteca, Calif. Filed Mar. 21, 1919. Serial No. 284,111. 2 Claims. (Cl. 72—38.)

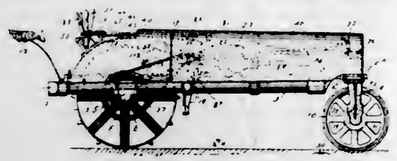


1. In a form of building construction, vertical slabs adapted to rest with their edges abutting, lugs and recesses on the adjoining edges of the slabs, each such alternate lug and recess on the vertical edges of the slabs being angularly and oppositely disposed relative to the horizontal plane thereof, and each alternate lug and recess on the horizontal edges being similarly disposed relative to the vertical plane of the slabs, whereby when placed together any lateral pressure on the slabs from either side will cause the slabs to wedge tightly together.

1,338,510. TRACTOR. CHARLES F. KILGORE, Minneapolis, Minn. Filed Apr. 29, 1916. Serial No. 94,324. Renewed Aug. 23, 1919. Serial No. 319,431. 7 Claims. (Cl. 180—20.)

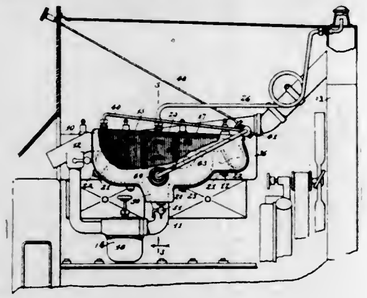
1. A tractor having a wide drum-like rear traction wheel carrying the weight of the rear portion of the

tractor and giving lateral stability thereto, and a single front steering wheel carrying the weight of the front



portion of the tractor, laterally offset outward beyond one side of said rear traction wheel and mounted for horizontal oscillatory movements.

1,338,511. SUPERHEATER FOR INTERNAL-COMBUSTION ENGINES. HARRY A. LACERDA, Jersey City, N. J., assignor of one-half to Ralph W. Benson, Mount Vernon, N. Y. Filed Jan. 21, 1919. Serial No. 272,316. 7 Claims. (Cl. 123—25.)



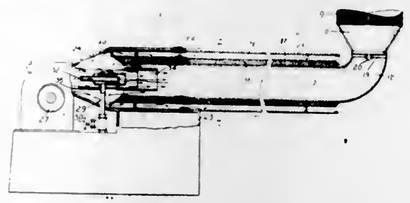
1. A superheater attachment for internal combustion engines, comprising a separable casing provided with a heating chamber and with a baffled-walled steam generating chamber disposed side by side, the said heating chamber inclosing the intake and exhaust manifolds of the engine, a water supply connected with the said steam generating chamber, and a steam connection connecting the said steam generating chamber with the said intake manifold.

1,338,512. BICYCLE-PUMP LOCK. ADOLF PER LUNDIN, Johannesburg, Transvaal, South Africa. Filed Aug. 15, 1919. Serial No. 317,745. 4 Claims. (Cl. 70—90.)



2. A pump lock to hold a bicycle pump comprising, a clamp capable of being fixed to a bicycle frame, a lock fixed to the clamp, a cylindrical casing fixed to the clamp, a bushing in the cylindrical casing, a clamp yoke swingingly confined in the bushing, a catch pin made on the lock yoke, a spring confined on the lock yoke to constrain it normally downward, said bushing and cylindrical guide having a bayonet slot in which the catch pin is confined to hold the lock yoke in disengaged position from the lock.

1,338,513. HEATED-AIR-SUPPLY APPARATUS FOR CLOTH-DRIERS. FRANCIS F. MCIVER, Jr., Chappaqua, N. Y. Filed Sept. 19, 1918. Serial No. 254,755. 5 Claims. (Cl. 26—16.)



4. A cloth drier comprising a conduit for heated air; a support for said conduit, said support embodying a covering jacket surrounding said conduit and disposed in substantially horizontal position; means for maintaining said jacket and said conduit in spaced relation to form an air passage therebetween; means for forcing a column of air through said conduit; means disposed at the receiving end of said conduit for heating said column of air, said means embodying a gas torch, the delivery end whereof extends into said conduit; means for distributing the heated medium delivered by said torch, said means embodying open-ended tubes, said tubes being disposed concentric with said torch and with each other, one of said tubes extending through said torch to be infolded thereby and the other of said tubes infolding said torch, said tubes providing a supply of air internally and externally disposed with relation to the fuel delivered by said torch; means for augmenting the volume of air delivered through the tube surrounding said torch, said means embodying a movable extension of said tube, said extension being adapted for augmenting or diminishing the column of air supplied to said conduit and said jacket; and means for increasing the combustion of gases supplied by said torch, said means embodying a movable extension tube telescopically arranged on the tube surrounding said torch and extensible lengthwise thereof.

1,338,514. GRAIN-ELEVATOR. JOHN B. MAJERUS, Bellechester, Minn. Filed Sept. 4, 1918. Serial No. 252,611. 2 Claims. (Cl. 193—14.)



1. A portable grain elevator including a body of hopper form adapted to receive the grain to be elevated, an elevator trunk extending forwardly from the body, an endless conveyer associated with said body and trunk to carry grain forwardly in the trunk to the forward end thereof, said conveyer having the return run thereof at the top suface of said trunk at the approximate center thereof so that the top of the trunk forms a table at each side of the conveyer, and a shield disposed over the conveyer in said hopper body to constitute part of the hopper structure, said shield being spaced from the rear wall of the hopper a distance to form therewith a throat leading behind the rear end of the conveyer, the shield furthermore extending beyond the front end of the hopper body and partially over said conveyer and table.

1,338,515. KEY-BEARING FOR PADLOCKS. CHARLES W. MEADOWCROFT, Sr., Philadelphia, Pa., assignor to Miller Lock Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 10, 1918. Serial No. 244,266. 2 Claims. (Cl. 70—16.)



1. The combination in a lock, of a casing; a key bearing mounted in the casing, said key bearing having cylindrical portions at each end adapted to the casing and having two longitudinal members spaced apart to form a keyway and connecting the two cylindrical portions, the space between the two cylindrical portions and above the longitudinal members being open so that the preponderance of weight of said longitudinal members will tend to keep the key bearing in the vertical position with the key slot at the bottom.

1,338,516. POWER-CONSERVING AIR-CHANNEL PROPELLER FOR FLYING-MACHINES. JOHN J. A. MILLER, Denver, Colo. Filed June 28, 1919. Serial No. 307,375. 3 Claims. (Cl. 170—172.)



3. A propeller comprising a hub and blades extending therefrom which taper from their leading to their following edges, an uninterrupted pocket extending through each blade, the mouth of said pocket being of the full length of the blade, while its sides and ends taper toward the outlet thereof; the pitch of said pockets corresponding to the pitch of the said blades.

1,338,517. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Repplier, trustees. Original application filed Aug. 29, 1918, Serial No. 251,941. Divided and this application filed Dec. 11, 1918. Serial No. 266,327. 1 Claim. (Cl. 75—1.)

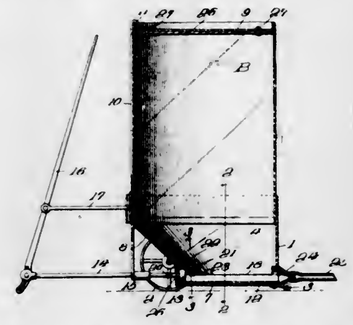
An alloy, consisting of the following ingredients in approximately the proportions stated, copper 50 to 60 per cent., nickel 26 to 34 per cent., iren 4 to 8 per cent., zinc 7 to 11 per cent., the said copper, nickel, iron and zinc being in a deoxidized state, and tungsten.

1,338,518. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Repplier, trustees. Original application filed Aug. 29, 1918, Serial No. 251,941. Divided and this application filed Dec. 11, 1918. Serial No. 266,328. 1 Claim. (Cl. 75—1.)

An alloy consisting of the following ingredients in about the following proportions, copper 50 to 60 per cent., nickel 26 to 34 per cent., iron 4 to 8 per cent., zinc 7 to 11 per cent., the said copper, nickel, iron and zinc being in a deoxidized state, and chromium.

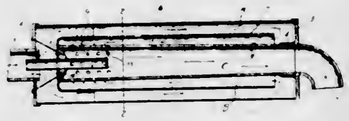
1,338,519. GREASE-DISPENSING DEVICE. JAMES H. MONTGOMERY, Butte, Mont. Filed Sept. 29, 1916. Serial No. 122,862. 3 Claims. (Cl. 221—102.)

1. A grease dispensing device including in combination a receptacle having vertical walls at its upper end and tapering side walls at its lower end, a horizontal stationary cylindrical member communicating with the opening between the lower ends of the tapering walls, a rotary cylinder within the stationary cylinder and having an



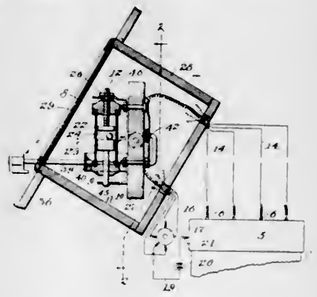
opening corresponding with the opening in the stationary cylinder, a piston in the rotary cylinder, a piston rod, means carried by the piston rod for rotating the cylinder for preventing grease from entering the cylinder in rear of the piston on the forward movement of the piston.

1,338,520. MUFFLER. GEORGE W. MOORES, Sun City, Kans. Filed July 3, 1919. Serial No. 308,392. 5 Claims. (Cl. 137—160.)



1. A muffler for internal combustion engines comprising an outer shell having an inlet at one end for exhaust gases and an inner shell having an outlet to atmosphere at the opposite end of said outer shell, said inner shell being provided with an opening at its opposite end and a tubular passage extending into the mouth of the exhaust inlet to shunt a portion of the exhaust gases directly into the inner shell past the opening therein aforesaid whereby the major portion of the gases will be caused to travel the complete length of the outer shell in one direction and substantially back to the inlet end in the opposite direction before entering the inner shell for final exhaustion from the muffler.

1,338,521. IGNITION-DETECTOR AND SPARK-INTENSIFIER. ALEXANDER Q. NASH, Kansas City, Mo. Filed Apr. 26, 1918. Serial No. 231,030. 10 Claims. (Cl. 175—183.)



1. An ignition detector and spark-intensifier comprising the combination of a translucent tube, insulating caps

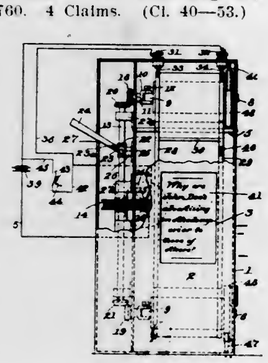
mounted in the ends of the tubes, a terminal extending inwardly into the interior of the tube from each of the caps, said terminals being connected in series with the spark plug of the engine and disposed apart to form a spark gap in the ignition circuit visible through the tube, and a freely movable metallic ball held by said tube between said terminals operating to intensify the spark at the spark plug and as a detector to indicate whether a spark is being formed at the spark plug.

1,338,522. CLEAT FOR BARRELS. JOHN P. NICOLLE, Montreal, Quebec, Canada. Filed Aug. 30, 1919. Serial No. 320,902. 2 Claims. (Cl. 217—89.)



1. As a new article of manufacture, a head securing device, comprising a rectangular metallic strap member having its end portions slit to provide tongues, said tongues formed with a series of angularly disposed scorings, each of said tongues at the end portions of said member, adapted to be bent outwardly on one of said scorings and the metal between the other of said scorings, adapted to form hooks for engaging the upper end of the barrel staves and the hoop.

1,338,523. ADVERTISING APPARATUS. JACOB R. OSBORNE, Clinton, Mo. Filed Aug. 23, 1917. Serial No. 187,760. 4 Claims. (Cl. 40—53.)



2. In advertising apparatus, the combination of a pair of drums, a web carried thereby and carrying reading matter, mechanism for rotating either of said drums to wind the web upon it, an electric controlling circuit for said mechanism including a conducting part on said web, means on said conducting part for breaking said circuit, to permanently arrest the web at a predetermined point, and manually controlled means for closing the circuit to start another advance movement of the web.

1,338,524. LUMINOUS THERMOMETER. GEORGE P. PITKIN, Bergenfield, N. J. Filed Aug. 30, 1919. Serial No. 320,814. 2 Claims. (Cl. 240—1.)

1. The combination with a thermometer tube having therein an expansible liquid, of a semi-cylindrical casing fitting the tube, curved spring tongues on the casing engaging the tube and clamping the casing thereagainst, said casing having at its intermediate portion a longitudinal groove, and luminous material located in said



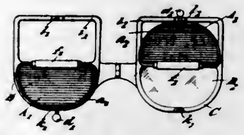
groove, said luminous material and groove wider than the internal diameter of the tube.

1,338,525. NEEDLE. CHARLES A. POHT, Windsor, Mo. Filed May 5, 1919. Serial No. 294,720. 3 Claims. (Cl. 274—37.)



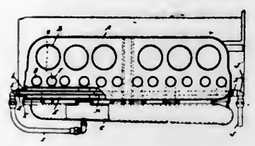
1. A device of the character specified, comprising a substantially cylindrical body having an axial bore and a slot or passage extending radially from the bore and extending the full length of the body, said bore being adapted to receive a filament of wire for the purpose specified, a bar in the slot or passage having means for engaging and holding the filament against movement away from the record, and means for clamping the bar in the slot or passage, said means comprising rings engaging the body, the bar having lugs for limiting the movement of the rings longitudinally of the body, one of the rings having a key way for permitting the passage of the lugs.

1,338,526. SPECTACLES OR GOGGLES. JOSEPH H. RAPHAEL and HENRY H. SCOTT, London, England. Filed May 26, 1919. Serial No. 299,858. 4 Claims. (Cl. 88—41.)



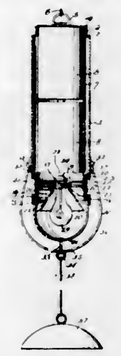
1. In an eyeglass the combination of a main frame, a pair of lenses carried in said frame, colored glasses hinged to said frame and adapted in the operative position to lie in front of said lenses, and extensions of said frame against which said colored glasses are securely held in their inoperative position.

1,338,527. INTAKE-MANIFOLD HEATER. ROY C. REICHEL, Detroit, Mich. Filed Apr. 22, 1918. Serial No. 230,010. 2 Claims. (Cl. 123—52.)



1. In an internal combustion engine, the combination with a cylinder block, of a water-jacket therefor, an intake manifold cored in said block and passing through said water-jacket to the ends of said block, and a conduit for exhaust gases extending through said intake manifold and spaced from the side walls thereof.

1,338,528. SUBMERSIBLE LIGHT FOR FISHERMEN. ERNEST W. REINEWALD, Ashland, Ohio. Filed Nov. 19, 1918. Serial No. 263,167. 3 Claims. (Cl. 240—26.)



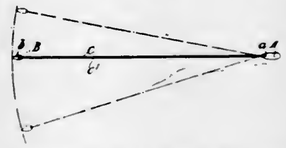
2. A device of the character described including a cylindrical holder, a cap for closing one end of the holder, a loop on the cap, batteries arranged in the holder and in series with each other, a lamp bulb operatively connected to the battery, a reflector mounted below the batteries and disposed about the lamp bulb, a globe detachably connected to the holder and arranged in surrounding relation with respect to the bulb, and swingingly connected bails on the holder and arranged in a cross-like form so as to interlock with each other and form a guard for the globe.

1,338,529. CIGARETTE. JOHANNES RICHTER, Lindenthal, Cologne, Germany. Filed July 8, 1919. Serial No. 309,525. 1 Claim. (Cl. 131—52.)



An improved cigarette having its mouthpiece filled up by a plug consisting of a porous, incombustible material leaving small channels for the passage of the smoke in the longitudinal direction.

1,338,530. MEANS FOR PROTECTING SHIPS. JOHN PEARCE ROE, London, England. Filed Aug. 11, 1919. Serial No. 316,801. 24 Claims. (Cl. 114—236.)

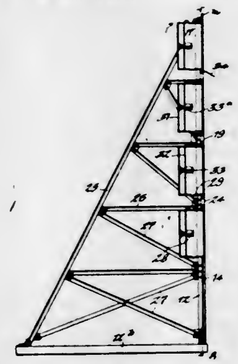


1. For the protection of a parent ship, the combination with such ship of a pilot craft, propelling mechanism thereon, a cable connecting said ship and pilot craft, and a swing arm mounted to turn about vertical axes on said ship and pilot craft and each engaging said cable so as to respond to variations in the direction of pull of said cable.

1,338,531. TREATING OF SHARK-SKINS AND THE LIKE PREPARATORY TO TANNING. ALLEN ROGERS, Brooklyn, N. Y., assignor to The Ocean Leather Co., New York, N. Y., a Corporation of Delaware. Filed May 8, 1919. Serial No. 295,549. 7 Claims. (Cl. 149—2.)

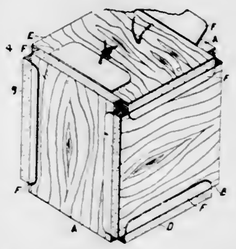
7. A method for removing the dermal armoring from shark skins and the like, while the skin is still on the body of the fish, which consists in subjecting the same to the action of heated fluid, subsequently removing said armoring, flaying the skins and removing the epithelium layer from the flayed skins with a mixture of five parts of lime and one part of sodium sulfid.

1,338,532. ADVERTISING-SIGN. FLOYD A. ROOT, Lockport, N. Y. Filed July 18, 1919. Serial No. 311,703. 4 Claims. (Cl. 40—130.)



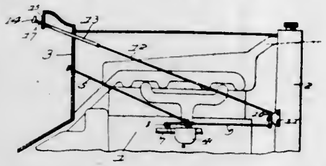
1. An advertising sign, comprising spaced uprights, tie-members of inverted U-form arranged between adjacent uprights and connecting their lower portions, and panel-frames carrying advertising panels and connecting said uprights above said tie-members.

1,338,533. BOX OR CRATE. JOHN CORNWELL ROUND, London, England. Filed Sept. 27, 1919. Serial No. 326,806. 1 Claim. (Cl. 217—12.)



A collapsible box, comprising ends, a top, and a bottom, each having inwardly projecting flanges on two of its opposite edges which overlap the plain edges of the adjacent part, sides having inwardly projecting flanges which overlap the bottom of the box, plates hinged to the sides and foldable over the top of the box, means for securing the said plates to the top, and detachable means for temporarily locking the ends of the box to its sides before the sides are secured to the top.

1,338,534. AUTOMOBILE-ENGINE ATTACHMENT. ELMO C. ROWLAND, Marshalltown, Iowa. Filed July 21, 1919. Serial No. 312,333. 2 Claims. (Cl. 180—77.)



1. The combination with an auto vehicle and carbureter therefor, of a butterfly valve mounted in the air supply pipe of the carbureter, a bracket plate mounted on the radiator of the vehicle, a rocker arm carried by the bracket plate, a connecting rod connecting the butterfly valve with the rocker arm, a bar slidably mounted in the dash, and a connecting rod connecting said bar with said arm.

1,338,535. BUCKLE. FRIEND A. RUSS, Greenwich, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn., a Corporation of Connecticut. Filed Feb. 19, 1919. Serial No. 278,062. 5 Claims. (Cl. 24—170.)



1. A buckle comprising a sheet metal plate having a slot for the passage of a running webbing, the metal on one side of said slot being folded upon itself to form a lip which is arranged to coöperate with the metal on the opposite side of said slot to grip said webbing.

1,338,536. BUCKLE. FRIEND A. RUSS, Greenwich, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn., a Corporation of Connecticut. Filed Feb. 19, 1919. Serial No. 278,063. 5 Claims. (Cl. 24—170.)



5. A buckle comprising a swinging lever and a sheet metal back, the said back having its upper extremity folded downwardly and then upwardly to form a web-gripping lip the top edge of which terminates adjacent to the top edge of the back in a position to form a snap-over edge and to hold the webbing.

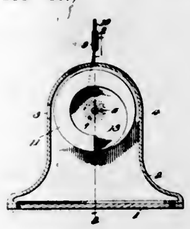
1,338,537. BALL-BEARING SPRING. GEORGE ALBERT SAVILLE, Jr., Lincoln, Nebr. Filed Nov. 25, 1919. Serial No. 340,483. 1 Claim. (Cl. 267—49.)

A laminated spring comprising in combination with the leaves, of ball bearings arranged at the ends of the leaves between each leaf and the preceding leaf, and cages for the balls formed by bending back the extremities of the



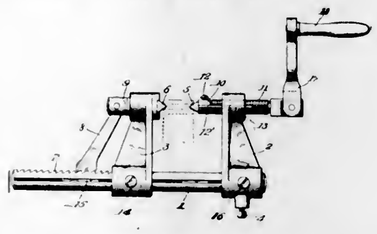
leaves upon the body and slotting said extremities to receive the balls.

1,338,538. AUTOMATIC WEIGHING-MACHINE. WILLIAM H. VICKERS and CHARLES E. HANCOCK, Liberal, Kans. Filed June 9, 1919. Serial No. 302,774. 2 Claims. (Cl. 265—61.)



1. A weighing machine comprising a base having a casing mounted thereon, said casing being provided with sight openings upon opposite sides, shafts revolubly mounted in said casing, a pair of dials fixed on said shaft opposite said sight openings having numerals designating pounds arranged reverse to one another, said dials being provided with cam-shaped weights and a tape wound around said shaft extending out through said casing having connection with the scale beam.

1,338,539. SPRING-LEAF SPREADER. FREDERICK W. VOLZ, Washington, D. C. Filed Oct. 20, 1917. Serial No. 197,673. 1 Claim. (Cl. 81—3.)

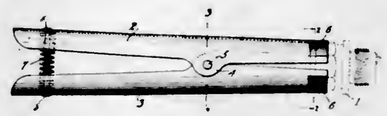


A spring leaf spreader device comprising a bar, arms mounted on the bar and carrying at their free ends spreader elements facing each other, one of said arms being slidably adjustable on the bar toward and away from the other arm, a pawl pivoted on the adjustable arm near the free end thereof and coöperating with the bar for holding the arm in desired adjusted position against movement away from the other arm, the pawl being normally so inclined relatively to the movable arm as to define therewith a hand-receiving opening, and means for moving the spreader element on the relatively stationary arm toward and away from the spreader element on the movable arm.

1,338,540. SPARK-PLUG HOLDER. CHARLES E. WAKE, Walla Walla, Wash. Filed Sept. 12, 1919. Serial No. 323,233. 2 Claims. (Cl. 294—36.)

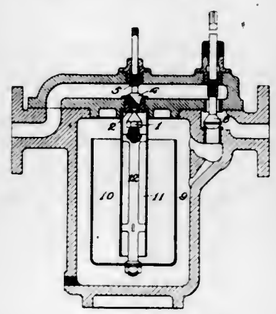
1. As a new article of manufacture a spark plug holder, comprising two members, both members of sheet metal

curved transversely, perforated lugs at both edges of both members, the lugs of one member positioned beside the



lugs of the other member, pivotal devices located in the perforated lugs of the adjacent members, and said members at one end angular transversely.

1,338,541. STEAM-TRAP. UHACHI WASHINO, Nagoya, Japan. Filed June 11, 1919. Serial No. 303,426. 1 Claim. (Cl. 137—103.)



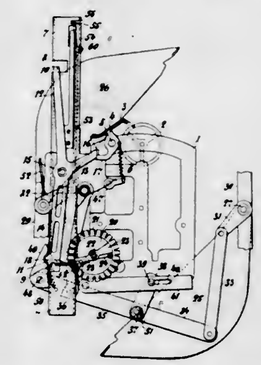
In a steam trap, a casing having an inlet passage, a cover for the casing having an outlet passage, ports one between the inlet passage and the interior of the casing and the other between said passage and the outlet passage of the cover, valve seats in said ports, a valve carried by the cover, arranged in the inlet passage and mounted for movement between and to close either of said ports, a float in the casing, a conical valve carried by the float, a fixed valve seat in the cover having a downwardly tapered opening extending from the outlet passage to the interior of the casing, a movable downwardly tapered valve seat in said fixed valve seat and arranged for engagement by said conical valve, said movable valve seat having a passage leading therethrough from the said outlet passage to the interior of the casing, and means for adjusting said movable valve seat.

1,338,542. KEY. ELISE WESTBERG, Trondhjem, Norway, assignor to Halfdan Norloff, Drammen, Norway. Filed Apr. 29, 1919. Serial No. 293,564. 2 Claims. (Cl. 7—1.)



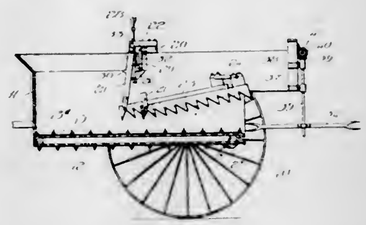
1 A key comprising in combination a shank having tumbler-engaging bits thereon; a relatively-large, substantially elliptical bow integrally connected to one end of the shank and having its major axis disposed transversely to the axis of the shank; and a strengthening rib distinct from the bow, formed integral with said bow at its junction with said shank and disposed parallel to the major axis of the bow, so as to prevent the bow from twisting or bending relatively to the shank during the manipulation of the key; said rib projecting into the bow opening and having its free edge formed to constitute a bottle-cap removing member.

1,338,543. SAVING-CLOCK. AAGE GEORG PETER WIINGAARD, Copenhagen, Denmark. Filed June 30, 1917. Serial No. 177,894. 8 Claims. (Cl. 194—19.)



7. In a savings clock adapted to be kept running by the periodical insertion of a coin, a shutter for the clock dial, and coin controlled means for periodically moving the shutter over the dial to obscure the same to remind the owner that it is time to insert another coin.

1,338,544. STRAW-SPREADER. GEORGE W. WILLIAMS, Morris, Ill. Filed Apr. 10, 1919. Serial No. 289,042. 7 Claims. (Cl. 275—5.)

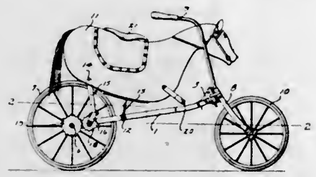


1. In a straw spreader, a suitable hopper, a traveling apron in the bottom of said hopper, and a plurality of reciprocating rakes for regulating the amount of material fed to the rear of the machine, said rakes being reciprocated at a higher rate of speed than the travel of the conveyer, and provided with a plurality of rearwardly inclined teeth for feeding the material rearwardly, the front tooth being forwardly inlined to thereby push back any excess material, and thus regulate the amount of feed.

1,338,545. COMBINED TRICYCLE AND ROCKING-HORSE. FREDERICK GIDEON WINNEK, Fairbury, Nebr. Filed Oct. 16, 1919. Serial No. 330,966. 2 Claims. (Cl. 208—165.)

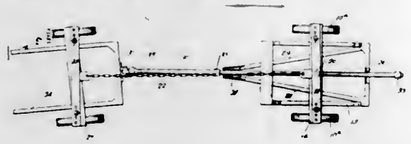
1. In a device of the character described, and in combination with a tricycle having spaced frame members with traction wheels and a pivoted steering wheel and handle bars on the steering wheel, of a seat pivoted at about its center between the frame members of the tricycle intermediate the traction wheels and the steering wheel, a link pivoted to the seat and connected to a crank shaft mounted between the rear ends of the frame

members, a driving gear on the crank shaft in mesh with a driven gear on the axle of the traction wheels, and foot rests on the seat in front of its pivotal connection with the frame members whereby the seat may be occu-



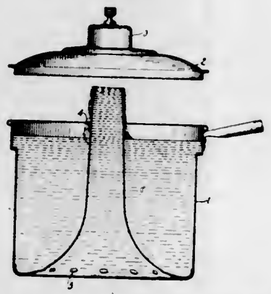
pied with the occupant's feet supported by the foot rests, and with the hands gripping the handle bars so that the seat may be rocked about its pivot for imparting a traction drive through the crank arm and drive gears to the traction wheels.

1,338,546. TRAILER. FREDERICK B. ALLEN, Joplin, Mo., assignor to Forsythe Mfg. Co., Joplin, Mo., a Partnership composed of Albert H. Forsythe and Jesse E. Forsythe. Filed Mar. 19, 1918. Serial No. 223,335. 8 Claims. (Cl. 280—33.4.)



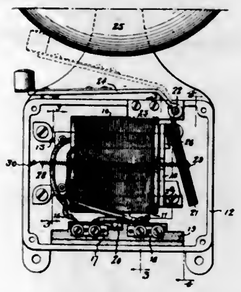
6. In combination with a truck member having a pivoted bolster, a detachable trailer member having a pivoted bolster, a draft member having terminals pivoted on the trailer member and the truck member, a longitudinal bearing in one of the first two mentioned members, a guide pole articulated to the other of the first two mentioned members and disposed in the bearing, and collars secured to the guide pole beyond the longitudinal bearing to limit the longitudinal movement of the guide pole relatively to the bearing member.

1,338,547. COOKING UTENSIL. LEOPOLD ARMBRUSTER, New York, N. Y. Filed Aug. 2, 1919. Serial No. 314,805. 1 Claim. (Cl. 53—1.)



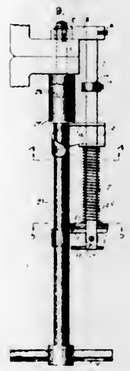
A cooking receptacle including a base and side walls, an inverted funnel like member positioned within such receptacle and having the outer edges of its funnel portion bearing against the inner faces of the base and side walls of the receptacle, the upper end of such member projecting above the upper level of the fluid positioned within the same, such member being formed with openings through its body portion and inwardly from its point of contact with the receptacle.

1,338,548. ELECTROMAGNET. CHARLES E. AVERY, Trenton, N. J., assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J., a Corporation of Massachusetts. Filed Mar. 27, 1917. Serial No. 157,738. 4 Claims. (Cl. 175—338.)



1. An alternating current magnet comprising magnet coils, pole pieces therefor projecting beyond the ends of the coils a sufficient distance to establish an area of maximum magnetic attraction beyond the ends of the coils, a rigid armature spaced from said poles but pivoted at a point such that, on excitation of the magnet, the armature is free to pass through said area of maximum attraction, together with rigid stop means halting said armature in stable position at a point at which the magnetic attraction is substantially counterbalanced by the effort of the armature to return to normal position.

1,338,549. ATTACHMENT FOR WRENCHES. LEONARD A. BANTA, Fellows, Calif., assignor of one-half to Charles E. Ellis, Fellows, Calif. Filed July 18, 1919. Serial No. 311,691. 8 Claims. (Cl. 81—55.)

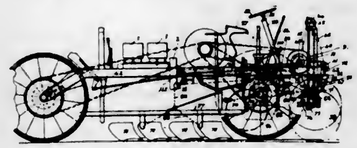


1. An attachment tool for socket wrenches, comprising; a pair of spaced guides, a shank member slidably confined in one guide and anchored to the other guide, a spring confined on the shank member between the guide members, a wrench head carried by the shank member, and a lock plate provided with a slotted opening confined on the shank member and movable relative thereto in order to hold a socket wrench in operative connection with the attachment tool.

1,338,550. MOTOR-PLOW. WILLIAM THOMAS BELL, Lincoln, WILLIAM HARDY WATSON, Wellingore, and LEONARD WILLIAM JONES, Lincoln, England. Filed Oct. 23, 1916. Serial No. 127,228. 1 Claim. (Cl. 97—30.)

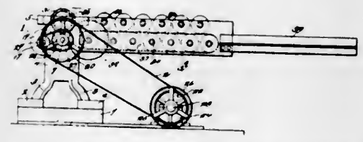
A motor plow comprising, in combination, a main frame carrying two staggered driving wheels, two parallel steering wheels and steering mechanism therefor, a prime mover having mechanism for connecting it to the

driving wheels, a plow-carrying frame connected to the main frame, plows on said plow-carrying frame, mechanism for carrying the plow frame and for connecting the same to the main frame, mechanism operable by the prime mover for lifting the main frame, the prime mover, the steering, driving and lifting mechanism, the plow



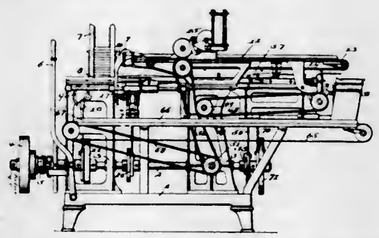
frame and plows and the front driving wheel on the steering wheels and rear driving wheel, mechanism for arresting the lifting movement of the frame and plows and for disconnecting the same from the prime mover, and brakes for controlling the lifting devices when lowering.

1,338,551. FABRIC STRIPPING OR CUTTING MACHINE. ALICE MAWBY BLAKESLEE, Philadelphia, Pa. Filed Oct. 11, 1919. Serial No. 329,915. 3 Claims. (Cl. 164—61.)



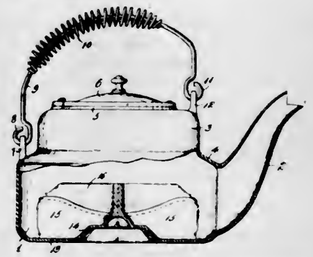
1. In a machine as set forth, a frame having an elongated bed, upper and lower revoluble members mounted in bearings of the frame, disk rollers mounted on and movable with said member, said disk rollers having annular channels, soft resilient rings mounted in said channels, each of the upper disk rollers having its annular corner portion beveled in a direction from the soft resilient ring, the opposite annular corner portion of each upper roller being beveled inwardly on a plane corresponding to the first bevel, the lower disk rollers being likewise beveled but reversely to the corresponding bevels of the upper disk rollers, whereby the radial faces of the corners which are beveled from the soft resilient rings of both sets of rollers may engage, thereby providing fabric severing means, the reversely arranged bevels of the upper and lower rollers forming spaces between the rollers, thereby acting to draw the fabric taut to insure severing of the fabric, and feed means mounted on said lateral bed for feeding the fabric between the severing rollers.

1,338,552. PACKING-PAPER-CUP-MAKING MACHINE. EDWARD L. BRACY, Baltimore, Md. Original application filed Jan. 3, 1917, Serial No. 140,398. Divided and this application filed July 20, 1917. Serial No. 181,791. 14 Claims. (Cl. 93—44.)



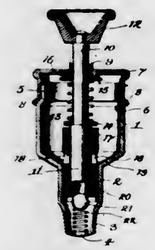
6. In a machine of the class described, the combination of means for advancing in endwise relation a row of forming blocks, each having an aperture therein and also having a cup formed thereon, a member movable into the path of the foremost block to arrest the advance thereof at a predetermined point, a block holding member having a pin arranged to register with and to engage in the hole in the foremost block when it occupies said predetermined position, and means operative on the cup on the foremost block to remove the same therefrom while such block is held from movement by said pin.

1,338,553. TEAKETTLE. FRANCIS M. CASE, Cleveland, Ohio. Filed Mar. 15, 1915. Serial No. 14,353. 1 Claim. (Cl. 53—9.)



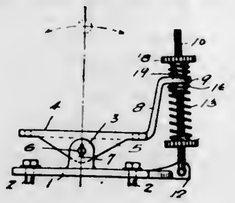
A tea kettle, comprising a hollow shell provided with a pouring spout and handle, the bottom of said shell having an upwardly extending central dome, and a series of radially extending inverted channel-shaped members providing a hollow cavity and radiating channels beneath the shell for the distribution of heat, said members having ribs extending upwardly therefrom and connected above said dome to assist in transmitting the heat to the body of liquid in the kettle.

1,338,554. OIL-CUP. WILFRED G. COLES, Madison, Wis., assignor to Madison Kipp Corporation, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 16, 1919. Serial No. 345,217. 5 Claims. (Cl. 184—38.)



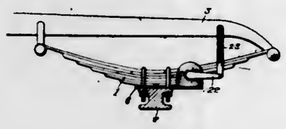
5. In a lubricator, the combination of a cup or reservoir formed from a single piece of metal drawn to form, said member presenting an upper externally threaded section, an annular outwardly inclining seat, a body portion proper, an inwardly and downwardly inclining bottom, a relatively narrow cylindrical shaped section extending downwardly from the bottom and an externally threaded still smaller projection; an internally threaded cap having an outwardly flaring lip adapted to contact the seat aforesaid; a combined piston guide and cylinder, the lower end whereof makes a driving fit within the cylindrical shaped section of the cup, said member having lateral ports opening into the cup; a piston mounted in said combined cylinder and guide; a stem extending upwardly therefrom and passing through an opening formed centrally of the cap; a collar seated in the lower end of the cylinder; a valve; and a spring urging the valve against the lower face of the collar to close the opening therein.

1,338,555. RESILIENT BASE. TRUMAN B. COOK and LLOYD FOSTER, Astoria, Oreg. Filed July 28, 1919. Serial No. 313,865. 4 Claims. (Cl. 248—30.)



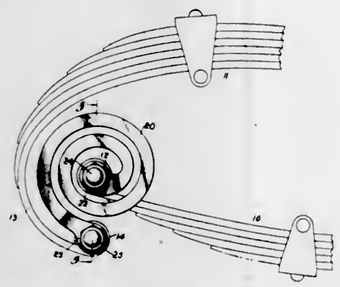
1. The combination of a fixed base, a supporting plate hinged on the base to swing with respect thereto and having an outstanding apertured arm, an upstanding screw bar extending loosely through the arm aperture and hinged at its lower end to the base to swing in the direction of swinging movement of the supporting plate, a resilient support for the arm adjustably mounted on the said bar beneath the arm, and a releasing member threaded on the bar above the arm.

1,338,556. REBOUND-CONTROLLER. HARRY GARREN CRAIG, Washington Court House, Ohio. Filed Sept. 29, 1919. Serial No. 327,104. 1 Claim. (Cl. 188—130.)



A rebound snubber comprising a U-shaped frame rigid with respect to the axle of a vehicle, a shaft journaled transversely through the arms of said frame and having a radial arm connected by a link with the frame of the vehicle, a disk secured upon said shaft and having inclined slots in its periphery, a housing surrounding said disk and constituting a brake drum, spring-pressed rollers within said slots, a brake band surrounding said housing and provided with means whereby its degree of contraction may be regulated, a transverse pin extending across the arms of the U-shaped frame, and a V-shaped bracket carried by said band and engaging over said pin.

1,338,557. VEHICLE-SPRING SHACKLE. JOHN J. CRAWFORD, New York, N. Y. Filed Mar. 29, 1919. Serial No. 285,980. 1 Claim. (Cl. 267—17.)



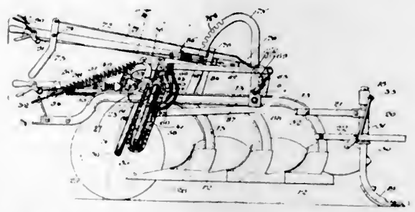
In combination, a pair of upper and lower vehicle springs, one of said springs terminating in a scroll curved around the end of the other spring whereby said ends are positioned one above the other, shackles connecting the corresponding ends of the upper and lower springs with each other, each shackle comprising a pair of resilient spiral bodies positioned within the scroll of said scroll spring end with their outer end secured at opposite sides of the ends of the scroll spring end and their convolutions corresponding to the curve of said scroll spring end and then overlying the sides of the other spring end, with their inner ends secured at opposite sides of the end of said last mentioned spring end.

1,338,558. EXTENSION-TABLE. HARRY CRUMP, Auckland, New Zealand. Filed July 12, 1918. Serial No. 244,553. 4 Claims. (Cl. 45—113.)



1. An extension table having false ends supported fixedly and flexibly connected broad leaves arranged in series and attached to the said ends, said table being also provided in its middle part under its top with a horizontal passage and said leaves being arranged in shortening the table to enter said passageway moving in a straight line therein without inversion and take position horizontally under said table top.

1,338,559. PLOW. FRANK E. DAVIS and DAVID A. BIEBINGER, La Crosse, Wis., assignors to La Crosse Plow Company, La Crosse, Wis., a Corporation of Wisconsin. Filed Sept. 26, 1912. Serial No. 722,387. 36 Claims. (Cl. 97—54.)



1. In a frameless plow, the combination with a frame structure having one or more plowshares rigidly secured thereto and ground wheels at the sides of the structure respectively, of pivotal lifting connections between the wheels and the structure respectively, operable to raise both sides of the structure and whereby said wheels will be held to support both sides of the structure when the plows are raised and when they are lowered, a power mechanism operated by one of said wheels, means operable by said mechanism for simultaneously shifting both of the lifting connections to raise both sides of the structure, and means for controlling the operation of said means by the power mechanism, said power wheel being rotated relatively to the lifting connections during the lifting operation.

12. In a plow, the combination of a plow-carrying structure, carrying-wheels at the sides thereof respectively, a crank-axle for one of said wheels, and draft-operated lifting-mechanism for the structure comprising a pair of sprocket wheels and a chain therebetween.

17. In a plow, the combination of land and furrow wheels, a structure having one or more plows rigidly secured thereon, crank axles having their lower ends pivoted in said wheels and having their upper ends extended inwardly and pivoted to the structure respectively, and operable to lift the structure by swinging movement, draft-operated mechanism operated by one of said wheels comprising a wheel mounted on and liftable with the structure, and means operable by said mechanism for simultaneously shifting both of the crank axles about the axes of said wheels to lift both sides of the structure.

22. In a plow, the combination of a plow-carrying structure, land and furrow wheels at the sides thereof respectively, draft-operated lifting-mechanism for said structure, a lowering-lever for the structure, a lock for securing the lever to secure the structure, controlling-mechanism for the lifting-mechanism comprising a lever, a slidable bar on the lowering lever for releasing and holding the lock during the operation of the draft-operated lifting-mechanism, connected to the controller-lever, a lock for securing said bar, and a cam for operating the latter lock to release the bar.

1,338,560. AUTOMOBILE-DOOR-OPENING DEVICE. NICHOLAS J. DELOHI, Ritchie, Ill. Filed Feb. 13, 1919. Serial No. 276,789. 5 Claims. (Cl. 268—5.)



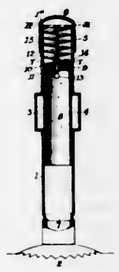
1. The combination with a swinging door having a spring controlled latch bolt for releasably holding the door closed, of an arm swingingly mounted on the door and having oppositely directed stops to limit the movement in both directions, connecting means between said arm and latch bolt, and manually operable means for actuating said arm, whereby the latch bolt is first released and the door then moved into open position.

1,338,561. VEHICLE-COUPLING ATTACHMENT. CHARLES LOUIS BAUDRY DE SAUNIER, Paris, France. Filed Mar. 23, 1920. Serial No. 368,153. 3 Claims. (Cl. 213—67.)



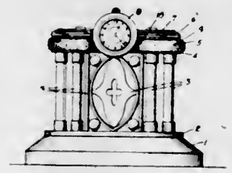
1. A coupling arrangement for two vehicles, comprising a tractor vehicle and a trailer vehicle, said arrangement comprising an annular member, mounted on one of the said vehicles, and within which engages the extremity of the draw-bar carried by the other vehicle, a shoulder and a tilting cotter provided on said extremity of the draw-bar and holding the said annular member, said draw bar having radial slots for the reception of the cotter when tilted.

1,338,562. VALVE. JOHN R. DOYLE, Philadelphia, Pa. Filed Mar. 25, 1918. Serial No. 224,557. 5 Claims. (Cl. 152—11.5.)



3. In a valve, the combination of a tubular casing having an enlarged chamber intermediate its ends, an inner tubular member closely fitting the inner wall of the casing and movable with respect thereto; said inner member having apertures whereby fluid under pressure may pass when it occupies different positions within the casing and being normally held above the lower wall of the enlarged chamber by internal pressure, and a spring for normally holding said tubular member against movement in one direction; said spring having a predetermined tension whereby excess pressure may react upon the inner tubular member against the tension of said spring to permit the excess pressure to automatically exhaust.

1,338,563. WRIST-WATCH HOLDER. ERNESTO EISENDECHER, Valdivia, Chile. Filed Aug. 18, 1919. Serial No. 318,285. 1 Claim. (Cl. 211—24.)



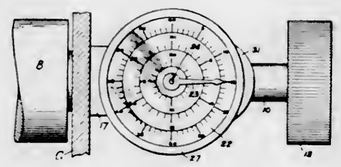
A wrist watch holder, comprising a base, standards on the base, a wrist watch supporting form secured to the top of the standards and positioned substantially parallel to the base, said form having a groove around its upper edge forming a restricted portion adapted to receive the strap or chain of a wrist watch.

1,338,564. FUSELAGE. ARMIN ELMENDORF, Madison, Wis. Filed Jan. 19, 1920. Serial No. 352,366. 5 Claims. (Cl. 244—30.)



1. A fuselage comprising a hollow body formed of a plurality of veneer plies, the inner placed longitudinally, the second, circumferentially, and the third longitudinally of the fuselage.

1,338,565. ATTACHMENT FOR TYPEWRITERS. FRED EDWARD FANGER, Mexico, Mexico. Filed July 30, 1919. Serial No. 314,264. 4 Claims. (Cl. 197—189.)

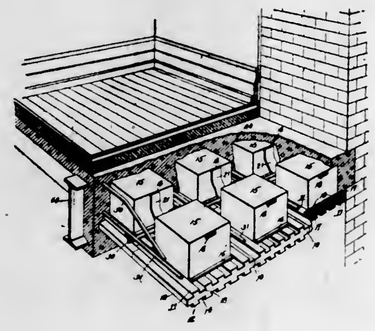


1. A typewriter attachment of the class described including indicator devices comprising a pointer and a dial, one of which is adapted to be turned relatively to the other, a spindle mounting the turnable indicating device, a driven element through which said spindle extends and is adapted to be turned by the turning of said driven element, a drive element adapted to be secured to the axle of the platen roller of a typewriter and having driving connection with said driven element, and drive means connected with said spindle, said spindle being adapted to be turned by the last-mentioned drive means and relatively to said driven element for setting the turnable indicator device independently of said driven element.

1,338,566. PROCESS OF MANUFACTURING INSULATING-BODIES OF "MOLER." ANDREAS FENGER-GRÖN, Hellerup, Denmark. Filed Mar. 29, 1919. Serial No. 286,088. 6 Claims. (Cl. 106—18.)

1. The process of manufacturing insulating bodies, consisting in drying and grinding to powder the silicious rock known as moler; heating organic matter to a degree that will prevent its injurious expansion under further heat; mixing the moler and organic matter together, adding water to the mixture, slowly heating it to about 250° centigrade and finally heating it to burning temperature, whereby the organic matter is consumed.

1,338,567. REINFORCED-CONCRETE FLOOR CONSTRUCTION. DENNIS JOHN FLYNN, New Brunswick, N. J. Filed Oct. 24, 1919. Serial No. 332,893. 5 Claims. (Cl. 72—66.)



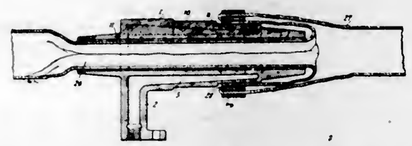
1. A reinforced concrete floor construction comprising slabs arranged in a plane in abutting relation, void forming metallic boxes set on the said slabs in spaced relation, spacing members in the form of stirrups connecting the upper ends of adjacent boxes with each other and forming reinforcements for the tops of the said boxes, reinforcing members extending between adjacent boxes, and a filling of cementitious material in which the said slabs, boxes, connecting members and reinforcing members are embedded.

1,338,568. ELECTRIC MOTOR. LEONARD FOOTE, Pedro Miguel, Canal Zone, Panama. Filed Nov. 4, 1918. Serial No. 261,066. 1 Claim. (Cl. 172—36.)



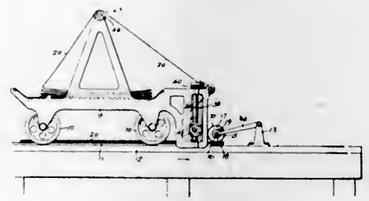
The combination with a rotor, of a pair of cylinders of like diameter and axes, each formed with polar teeth arranged with the teeth of one cylinder entering between the teeth of the other so that the reluctance between the teeth is greater than the reluctance between the teeth and the periphery of the stator, said cylinders having flanges, a third cylinder arranged concentrically with the first mentioned cylinders, and engaging the flanges, thereby completing a circuit for the magnetic flux, and a winding between the third cylinder and the toothed cylinders, whereby all the teeth of one cylinder will be of one polarity while the teeth of the other cylinder will be of opposite polarity.

1,338,569. VULCANIZER. EDGAR D. HOSTLER, Tipton, Iowa, assignor of one-half to Hamiel & Mather, Tipton, Iowa, a Partnership. Filed July 30, 1919. Serial No. 314,220. 8 Claims. (Cl. 18—45.)



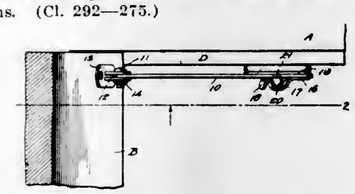
1. A device of the character stated, comprising a hollow mandrel having an exterior vulcanizing surface, and a non-heat conducting lining in the interior of the mandrel.

1,338,570. CLOTH-LAYING MACHINE. MOSES ISAACS, New York, N. Y. Filed Oct. 8, 1918. Serial No. 257,362. 3 Claims. (Cl. 270—31.)



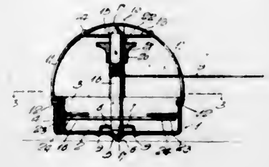
1. A machine as characterized comprising a table; a carriage movable thereon; a plurality of detent rollers, said rollers being rotatable in one direction only; means provided on said rollers permitting the introduction of cloth thereunder and for preventing the withdrawal of the same; means for carrying a supply of cloth on said carriage; means for spreading said cloth on said table, said means embodying a rocking frame embodying spreading plates, said plates being held in spaced relation to permit the introduction of said detent rollers therebetween, and the forward edges of said plates being contracted for wedging under said rollers; means manually operable for reversing the working position of said plates; and means manually operable for regulating the working height of said plates.

1,338,571. DOOR-STOP. WILLIAM J. KELLY, Jamaica, N. Y. Filed Apr. 18, 1919. Serial No. 291,025. 5 Claims. (Cl. 292—275.)



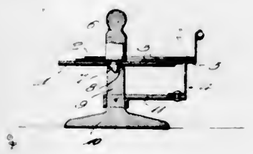
2. A door stop comprising a link adapted to be pivotally supported by the door, a plate adapted to be secured to the door frame and provided with a depending shank having a spherical head, a spring finger secured to the free terminal of the link and provided with an embracing portion adapted to accommodate the spherical head, said finger also having an out turned lip curved away from the embracing portion, the link having a slot freely receiving the shank and co-acting therewith to maintain said link between the head and the plate and serving to guide the lip over the head to position the embracing portion thereover or remove the same therefrom.

1,338,572. TOP. WILLIAM J. KERR, Smethport, Pa. Filed July 14, 1919. Serial No. 310,523. 7 Claims. (Cl. 46—32.)



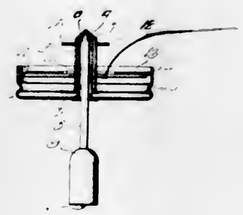
1. A top comprising a casing having a circular vertical wall, an open top and a central bearing socket in the upper side of its bottom, a frame member spanning the open top of said casing and having a bearing alined with said bearing socket, a vertical staff rotatably engaged with said bearing and socket, an arched retainer having an opening in its crown receiving said staff, the legs of said retainer being secured to the bottom of the casing, a disk carried fixedly by said staff within said casing and having its periphery in close relation with said circular wall, and a cord for spinning said staff and disk.

1,338,573. TOP. WILLIAM J. KERR, Smethport, Pa. Filed Sept. 2, 1919. Serial No. 321,027. 5 Claims. (Cl. 46—32.)



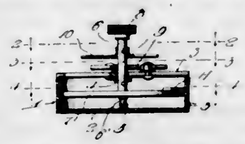
5. In a top, a casing having a circular wall, a disk rotatable in said casing and having a central staff, and a plurality of rings having openings to loosely receive said staff, said openings being of a size to permit the peripheral edges of the rings to travel against said circular wall, said rings having surfaces coacting in producing different visual effects.

1,338,574. TOP. WILLIAM J. KERR, Smethport, Pa. Filed Oct. 13, 1919. Serial No. 330,208. 8 Claims. (Cl. 46—32.)



1. A top comprising a casing open at its upper end and provided with a circular side wall, a central staff rising from the bottom of said casing and having a bearing on its upper end, a thimble loosely surrounding said staff and resting rotatably on said bearing, a spinning disk carried by said thimble, and a loose disk adapted to be supported by said spinning disk for contact with said circular wall.

1,338,575. TOP. WILLIAM J. KERR, Smethport, Pa. Filed Feb. 17, 1919, Serial No. 277,592. Renewed Oct. 23, 1919. Serial No. 332,854. 12 Claims. (Cl. 46—32.)



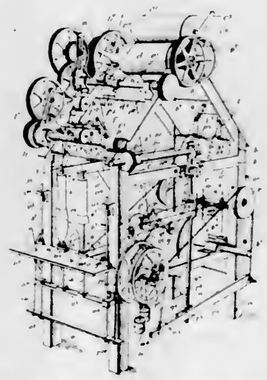
1. A top comprising a support, a plurality of disks rotatably mounted thereon, in substantially the same plane, a shutter in a plane parallel to that of said disks, and means for rotating said disks and shutter.

1,338,576. TIRE-TOOL. LEE L. KEYS, Yakima, Wash. Filed Aug. 20, 1919. Serial No. 318,676. 1 Claim. (Cl. 81—3.)



A tire tool of the character described including a shank having a handle at one end, said shank being provided at its other end with a cut made transversely through the same and dividing such end into a pair of collapsible spring jaws having extremities formed to grip a valve stem and to guide the jaws onto the stem, such extremities being reduced exteriorly to admit the same within the valve stem, said shank having a shoulder formed adjacent the cut away portion of said extremities and having the exterior wall thereof adjacent the shoulder conical and the portion adjacent such conical portion screw threaded, a nut having a conical bore fitting over such conical portion of the shank, and a threaded nut run on the threaded portion of said shank and adapted to advance said first named nut over the conical portion whereby to compress said spring jaws, substantially as described.

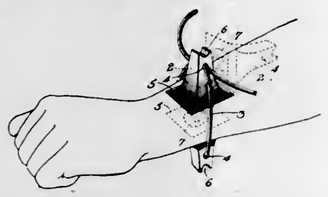
1,338,577. SPINNING-MACHINE. WILLIAM CHRISTOPHER MCLOUGHLIN, Fitzroy, Victoria, Australia. Filed Nov. 7, 1919. Serial No. 336,528. 4 Claims. (Cl. 118—32.)



1. In a spinning machine, the combination with stationary spindles, tubular bobbins mounted on the spindles,

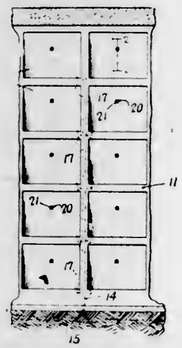
hollow shrouds carried with the spindles each being provided with a bell mouth and having a bearing at the upper end thereof, a rotary flier mounted in the bearing and the rotary movement of said flier straightening, equalizing, and combining the fibers of wool or like material into attenuated and strong uniform condition for winding on the bobbin.

1,338,578. SURGICAL TOURNIQUET. RINSAI MAEDA, Seattle, Wash. Filed Oct. 5, 1918. Serial No. 257,041. 5 Claims. (Cl. 128—327.)



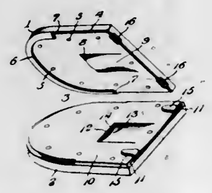
2. A surgical bandage comprising a pyramidal block of elastic material the base being countersunk, and a pliant flap or tongue connected at one end to the base and designed to occupy the recess and to contain a medicament.

1,338,579. PROCESS OF PROMOTING BODY PRESERVATION IN MAUSOLEUMS. OTTO V. MARTIN, Fort Smith, Ark. Filed Aug. 9, 1918. Serial No. 249,159. 1 Claim. (Cl. 27—22.)



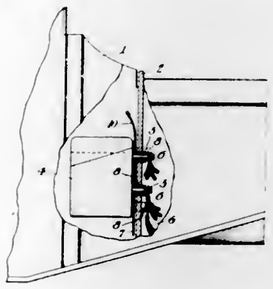
The process of promoting the preservation of a body in a mausoleum cell which consists in placing in a receptacle open to the interior of the cell a liquid containing a capsule soluble in said liquid and containing, in turn, substance which when released by the dissolution of the capsule and commingled with the liquid will form a preservative and disinfecting gas.

1,338,580. SHOE-HEEL CONSTRUCTION. WILLIAM J. MORGAN, Bressler, Pa. Filed Jan. 20, 1919. Serial No. 272,114. 3 Claims. (Cl. 36—42.)



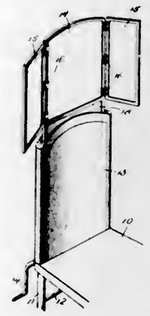
1. The combination with the main body portion of a heel and a heel lift, of a detachable connection between said body portion and heel lift comprising a plate secured to the lower side of the main body portion of the heel and conforming to the configuration of said body portion, a flange at the curved edge of said heel forming a channel, a second plate secured to the upper surface of the heel lift and having the side portions contiguous to the straight edge extended laterally and turned downwardly and inwardly to provide flanges to space the curved edge of said second named plate from the heel lift whereby curved spaced portions engage in said channel and said plates are placed in face to face contact, means on the confronting faces of said plates acting to prevent accidental disconnection of the same, and means for detachably connecting the forward straight edges of said plates.

1,338,581. COIL-BOX PROTECTOR. PRATT C. MORRIS, Thomasville, Ga., assignor to Charles Wheeler Cooper, Thomasville, Ga. Original application filed May 16, 1918, Serial No. 234,978. Divided and this application filed Oct. 6, 1919. Serial No. 328,676. 5 Claims. (Cl. 180—90.)



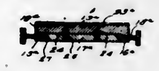
2. A protector for coil-boxes of motor vehicles, comprising a member having a body portion formed to fit between the coil-box and a dash-board of the vehicle and about the terminals or binding posts of the coil box and provided at its upper end with a deflector to extend over the coil-box adjacent to the binding-post face of the box.

1,338,582. BOUDOIR-CHAIR. THEODORE H. MORRIS and FRANK T. GRUBBE, Gary, Ind. Filed Sept. 13, 1918. Serial No. 253,963. 1 Claim. (Cl. 155—188.)



A chair having its back in the form of a housing, a foldable mirror normally received in the housing, guides in the housing for the mirror, stops carried by the mirror for limiting the movement thereof in both directions through the housing, a rack depending from the mirror frame through the housing, a pinion on the bottom of the chair engaging with the rack, a shaft for the pinion journaled in bearings, and a removable handle for engaging with the shaft.

1,338,583. NUT FOR GUITARS OR THE LIKE. MAX NEFF, Seattle, Wash. Filed Aug. 13, 1919. Serial No. 317,303. 6 Claims. (Cl. 84—87.)



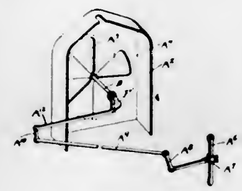
5. A nut for guitars or the like comprising a plate having string receiving grooves on its upper surface, a recess in the lower face of said plate forming spaced arms, a second plate adapted to seat in said recess, recesses formed in the ends of said second plate, screws having threaded engagement in said arms extending into the recesses in said second plate, inclined walls formed in said recesses, beveled points formed on said screws adapted to engage said inclined wall, pins secured in said first named plate, and apertures formed in said second named plate adapted to receive said pins.

1,338,584. CUSHION-HORSESHOE. HENRY PAAR, Canton, Ohio, assignor of one-third to Charles McGranahan, Youngstown, Ohio. Filed Nov. 14, 1919. Serial No. 338,052. 2 Claims. (Cl. 168—15.)



1. A horseshoe having each of its heels provided with a pair of spaced apertures, a cushion mounted against each heel between said apertures and having vertical grooves in its ends registering with the apertures, a calk engaging each cushion, studs upon the calk engaging the grooves in the cushion and extending into the apertures, an ear upon the calk, and a screw located through the ear and through the shoe.

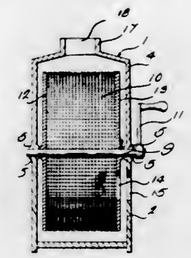
1,338,585. DEVICE FOR CONTROLLING THE TEMPERATURE OF AUTOMOBILE-RADIATORS. ROBERT L. PATE, Springfield, Mo. Filed Feb. 10, 1917. Serial No. 147,826. 3 Claims. (Cl. 257—132.)



2. The combination with the radiator and ignition switch lever of an automobile, of a rock shaft extending through the radiator and projecting upon opposite sides thereof, rotatable ventilators secured to the rock shaft and arranged upon opposite sides of the radiator, and operative connecting means between the ignition switch lever and the rock shaft so that they move in unison.

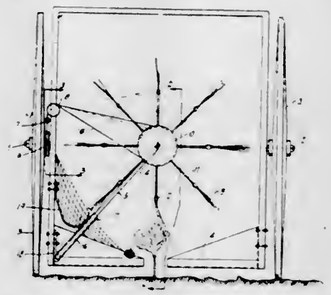
1,338,586. ERASER-CLEANER. JOHN PATERSON, Jr., Edinburg, N. D. Filed Oct. 3, 1918. Serial No. 256,750. 1 Claim. (Cl. 15—25.)

In an eraser cleaner, the combination, of a casing comprising upper and lower detachably connected sections, a shaft rotatably supported by said sections, a foraminous drum mounted upon said shaft for rotation therewith, said drum having solid ends, said lower section of said casing being provided with an opening, one end of said drum



provided with an opening adapted for alinement with the opening in said casing to permit the insertion of erasers into said foraminous drum.

1,338,587. INSECT-CATCHER. LUTHER PATTON, West Blocton, Ala. Filed Dec. 8, 1919. Serial No. 343,350. 3 Claims. (Cl. 43—142.)



1. An insect catcher of the character described, comprising a wheel supported frame, a belt driven by one of said wheels, a brush holding wheel driven by the belt, a telescoping adjustable support for the brush wheel, and spring means acting on said support to maintain tension on the belt.

1,338,588. CALCULATING DEVICE. FORD L. PRESCOTT, Elmira, N. Y. Filed Jan. 17, 1919. Serial No. 271,730. 7 Claims. (Cl. 235—84.)

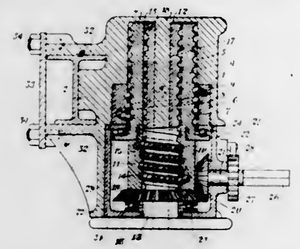


1. An annulus, a disk in said annulus, indices on the periphery of said disk, coöperative indices on the internal face of said annulus, and means interposed between the meeting surfaces of the disk and annulus for alining said indices and for keeping the said disk and annulus in assembled relation and frictionally holding the said parts in given angular relation, the said means being a groove in the peripheral face of the said disk and an internal groove in the said annulus and a resilient member comprising a crimped resilient wire simultaneously engaging said grooves at a sufficient number of points to hold the annulus and disk from separating.

1,338,589. LIFTING-JACK. FRED LIONEL RAPSON, Liverpool, England. Filed July 10, 1918. Serial No. 244,303. 5 Claims. (Cl. 254—86.)

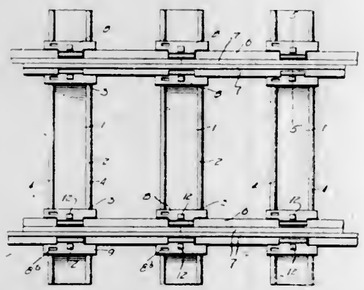
1. A jack comprising a casing, a sleeve member longitudinally movable in the casing, a second sleeve member lon-

gitudinally movable in the first sleeve member, a foot piece carried by the second sleeve member, operating



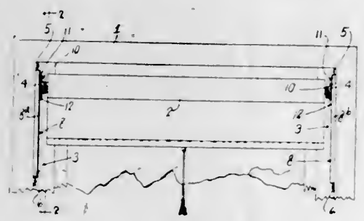
means for the sleeve members, and a housing for the operating means secured to and movable with the first-mentioned sleeve member.

1,338,590. RAILWAY CONSTRUCTION. ALOYSIUS W. RAYNE, Fulton, Mo. Filed Sept. 30, 1919. Serial No. 327,363. 3 Claims. (Cl. 238—64.)



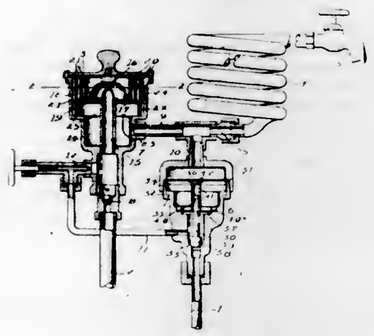
1. In a railway construction, the combination of a tie having a rail seat and pairs of lips at opposite sides of said seat, a rail disposed in the seat, anchor members resting in straddling position on the lips of the tie at opposite sides of the rail and having pendent beveled heads sprung into engagement with said lips, and fasteners holding the rail and connecting the same with the anchor members.

1,338,591. WINDOW-SHADE SUPPORTER. HORACE J. RICHARDS, Watervliet, N. Y. Filed Jan. 30, 1920. Serial No. 355,241. 1 Claim. (Cl. 156—24.)



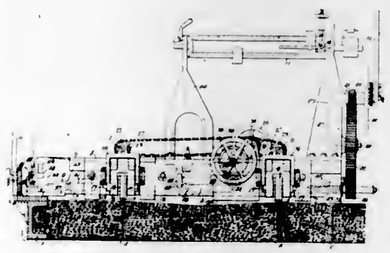
In a supporter, the combination with a bar having spaced transverse portions; of a bracket having a body including an upper resilient loop and a pendent resilient tongue, and an arm extending from the body; the upper loop removably straddling one transverse portion of the bar and the pendent tongue resting at the inner side of the next lower transverse portion of the bar.

1,338,592. FLUID-MIXING APPARATUS. CROCKER H. SANFORD, Baltimore, Md., assignor, by direct and mesne assignments, to The Old Dominion Specialty Co., Inc., Baltimore, Md., a Corporation of Maryland. Filed Apr. 18, 1919. Serial No. 291,078. 14 Claims. (Cl. 261—64.)



2. An apparatus for commingling water and gas comprising a mixing element, a valve casing adapted for connection with a source of gas supply and comprising diaphragm means and a valve body, a conduit connected with the mixer and also connected with the valve casing, at the opposite side of the diaphragm means to the gas inlet, and having a normally closed eductfon orifice and means for closing the same, a conduit intermediate the valve casing and the water inlet of the mixing element and means for controlling said conduit.

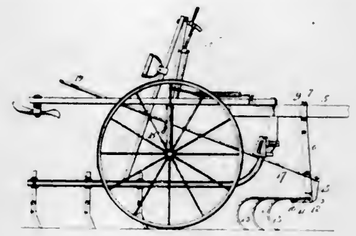
1,338,593. LOCOMOTIVE - SCALE. GEORG SCHNURR, Philadelphia, Pa. Filed Aug. 14, 1919. Serial No. 317,412. 15 Claims. (Cl. 265—52.)



1. The combination in scales, of a carrying frame mounted on wheels; a supporting frame mounted in the carrying frame; a wedge carried by the supporting frame; means for projecting the wedge; a block mounted on the wedge, a balance lever pivotally mounted on the block; a scale beam connected to the balance lever, the balance lever having a portion adapted to extend under the element to be weighed.

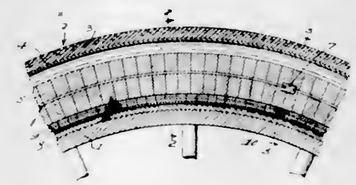
1,338,594. CORN-CULTIVATOR ATTACHMENT. WILLIAM H. SHANNON, Astoria, Ill. Filed Sept. 29, 1919. Serial No. 327,043. 4 Claims. (Cl. 97—33.)

1. In a cultivator attachment, a standard secured removably to the tongue of the cultivator and depending therefrom, a plurality of tines pivoted to the standard independently of each other, to form a rake set in advance of the cultivator shovels, whereby vines are stripped from plants, uprooted and laid in a row out of the



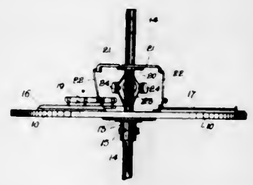
paths of said shovels, and means for raising or lowering the tines.

1,338,595. VEHICLE-TIRE. WILLIAM J. STOLTZ, St. Louis, Mo. Filed Dec. 7, 1917. Serial No. 206,038. 1 Claim. (Cl. 152—10.)



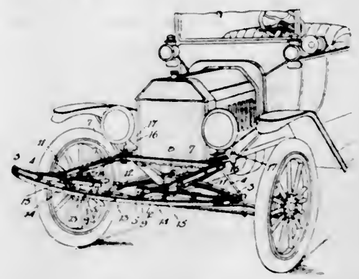
The combination with a pneumatic tire and a clencher rim therefor, the tire comprising an outer casing carried by the rim and an inner tube carried within the casing, of a supplementary tire made up of a series of cork or pith disks and a wire passing through the disks and securing them together, the said supplementary tire being carried within the inner tube, and a cork filler ring also consisting of a plurality of sections and a wire grouping these sections together, the said filler ring being carried in the inner tube in that portion of the latter which extends down between the clencher heads of the outer tube, and having the supplementary tire bearing upon it, the supplementary tire being in cross-sectional area materially smaller than the inner tube so that an air space exists between the supplementary tire and the tube adjacent the side walls and that wall of the latter adjoining the tread of the outer casing.

1,338,596. SHUTTER FOR CINEMATOGRAPH - MACHINES AND THE LIKE. EDWARD TASSIE, South Hackney, London, England. Filed Apr. 15, 1919. Serial No. 290,321. 9 Claims. (Cl. 88—19.3.)



1. A shutter for cinematograph machines having a plurality of equally spaced openings between which are opaque portions, a hole in at least one of said opaque portions and adjustable means whereby said hole may be covered and uncovered.

1,338,597. AUTOMOBILE-BUMPER. HOWARD TAYLOR, Philadelphia, Pa. Filed Nov. 17, 1917. Serial No. 202,519. 6 Claims. (Cl. 293—55.)

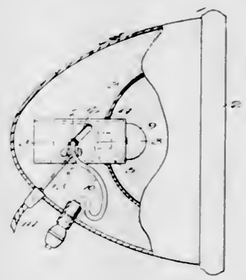


1. A vehicle bumper comprising a front spring member having its ends each returned by a single bend and spaced from the rear thereof, a bracket adapted to be clamped to the front of the vehicle and having ends attached to returned ends of the front member, and an intermediate spring member secured to the front member and having rearwardly bent ends movably bearing upon the supported rear ends of the main member.

1,338,598. METHOD OF MAKING ABRASIVE STRUCTURES. CHARLES W. THOMAS, Glenloch, Pa. Filed July 24, 1916. Serial No. 111,026. 5 Claims. (Cl. 51—1.)

1. The method which consists in mixing abrasive grains with a temporary binder, and a permanent binder consisting exclusively of preshrunk vitreous material: forming an object from said mixture; firing said object at a temperature sufficient to cause said permanent binder to flow; and cooling said object.

1,338,599. HEADLIGHT. HOMER H. TRAVIS, Columbus, Ohio. Filed Mar. 12, 1919. Serial No. 282,068. 3 Claims. (Cl. 240—44.)



1. The combination with a headlight having a casing and a reflector spaced therefrom, of a helically slotted sleeve mounted between the casing and the reflector, a lamp carriage slidably mounted in said sleeve, an electric conduit arm on said carriage extending through the helical slot in said sleeve and means engaging said arm for imparting movement to said carriage to dim the action of a lamp.

1,338,600. SPINNING-BRAKE. ALFRED T. UNDERWOOD, High Point, N. C. Filed June 26, 1918. Serial No. 242,089. 1 Claim. (Cl. 118—55.)

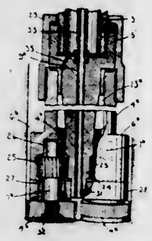
A spindle brake of the class described comprising a spring arm and a head, said arm being constructed of spring metal bent upon itself to comprise an eye at the

bight thereof and widened from the said bight to provide sides which exert a pressure in an outward direction from each other, and the said sides, at the free ends thereof being outturned, the head comprising an oblong rectangular block having spaced longitudinal bores entering from one of the ends thereof and openings communicating between



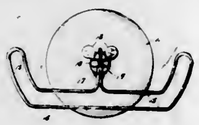
the sides and the inner ends of the bores, the bores being of a sufficient area to permit of the free passage of the offset ends of the arms therethrough, the offset ends of the said arms finding bearings in the walls of the openings and providing pivots between the head and arms whereby the said head may swing a limited degree on the ends of the said arms.

1,338,601. ROTARY BORING-DRILL. FRANK L. O. WADSWORTH, Pittsburgh, Pa. Filed Feb. 6, 1918. Serial No. 215,589. 18 Claims. (Cl. 255—71.)



1. A rotary drill bit comprising a head, and two disk cutters almost, but not quite horizontal rotatably mounted on the forward end thereof; the said cutters having lower slightly inclined end cutting and disintegrating faces adapted to dig the entire bottom of the hole and peripheral surfaces so arranged as to make contact with the wall of the hole over substantially their entire width.

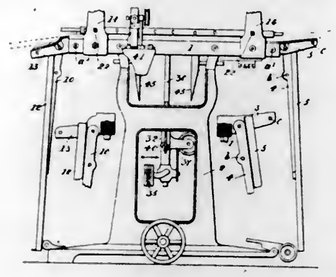
1,338,602. DRESS-MARKER. LAURA AMY WHEELER, Minneapolis, Minn. Filed Nov. 9, 1918. Serial No. 261,905. 1 Claim. (Cl. 33—9.)



In a skirt marker the combination with a stand including a base and a longitudinal slotted upright having a scale adjacent the slot, and a marking element on said upright, said marking element consisting of a single piece of wire-like material bent to form a straight portion and having its ends formed to provide a shank passing through the slot in the upright and a nut threaded on the shank to engage against the upright for holding the marking element against movement on the upright.

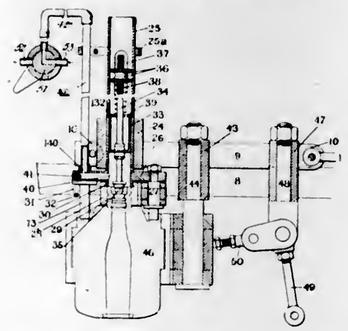
1,338,603. LABELING-MACHINE. JOHN L. WHITEHURST, Baltimore, Md., assignor, by mesne assignments, to John T. Whitehurst, Baltimore, Md. Filed Jan. 15, 1916. Serial No. 72,247. Renewed Mar. 11, 1920. Serial No. 365,095. 5 Claims. (Cl. 216—44.)

1. In a labeling machine, a frame to and from which the can or body to be labeled may be received and discharged, label distributing and pasting means, and a laterally yielding composite guide rail for the rolling cans formed of independently movable sections, combined with



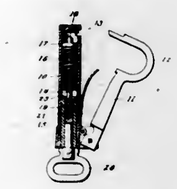
an opposite spring-backed continuous guide rail, and means to laterally adjust said continuous rail with respect to said composite rail.

1,338,604. GLASS SHAPING OR BLOWING MACHINE. ARTHUR WILZIN, St. Ouen, France. Filed Mar. 3, 1917. Serial No. 152,344. 2 Claims. (Cl. 49—5.)



1. In a suction head for glass blowing and molding machines, the combination with a neck mold, of a movable plunger adapted to coöperate therewith, a spring adapted to normally hold said plunger out of coöperative relation with said neck mold, a parison mold also adapted to cooperate with said neck mold, a pneumatic piston for moving said plunger into coöperative relation with said neck mold, said piston being actuated against the tension of said spring by the suction existing in the parison mold only during the latter part of the filling thereof, and means for adjusting the tension of said spring to determine the stage in the filling operation at which the plunger is moved into coöperative relation with said neck mold.

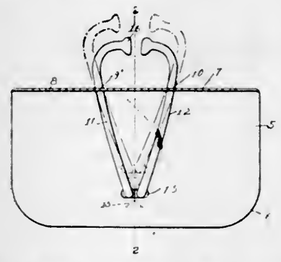
1,338,605. LOCK. CZESLAW WRÓBLEWSKI, Glenlyon, Pa. Filed July 3, 1919. Serial No. 308,653. 1 Claim. (Cl. 70—105.)



A lock comprising a cylindrical casing having a slot adjacent one end, a shackle pivoted on one side of the

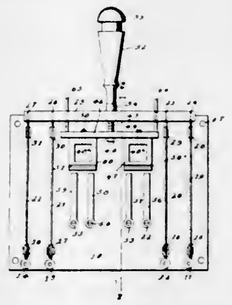
casing and adapted to be inserted through said slot, a barrel threaded within the casing, a spring actuated bolt having a portion together with said spring operating within the casing above the barrel, and a portion movable within said barrel, said barrel being slotted at its upper end, means adapted for association with said bolt for retracting the latter against the influence of said spring, and a cross-pin carried by the bolt and positioned within said slot of the barrel, whereby the bolt is held against turning while being retracted.

1,338,606. CALF-WEANER. WALTER R. BARGER, Benkelman, Nebr. Filed Dec. 26, 1919. Serial No. 347,377. 4 Claims. (Cl. 119—132.)



1. A calf weaner including a body portion having a right angled flange formed integral with one edge thereof, said flange having spaced openings, opposed arms extending through the openings, said body portion having a slot formed therein at a point intermediate the width of the body portion and adjacent the lower edge thereof, said arms having a right angled head provided with an opening, said head adapted to extend through the slot, and means passing through the opening in the head for locking the arms to the body portion.

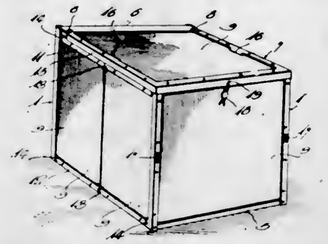
1,338,607. ELECTRIC SWITCH. WILLIAM E. BELL, Boston, Mass. Filed Oct. 18, 1919. Serial No. 331,725. 2 Claims. (Cl. 200—18.)



2. In an electric switch, a base, a plurality of blades pivotally mounted thereon, a yoke connecting the blades, contact members coöperating with the blades, a plurality of spring fingers mounted on the base and adapted for connection with an electric circuit, blades coöperating with the fingers, a yoke connected with the blades last named, and means for moving the yokes and all of the blades simultaneously to inoperative position, said means permitting movement of one of the yokes independently of the other.

1,338,608. FOLDING CRATE. MARION FRANKLIN BENCH, Chillicothe, Mo. Filed May 1, 1919. Serial No. 294,020. 4 Claims. (Cl. 220—7.)

1. A folding crate comprising a front and a back movable bodily toward each other, a bottom hinged to said back for upward folding against the same, a forwardly extending flange on the upper end of said back, a pair of sides hinged to the edges of said front and back, each of said sides being formed of two sections hinged together on a



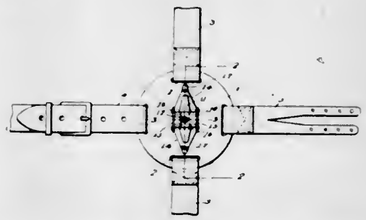
vertical line for inward folding, and a top hinged to said flange, said sides, front and bottom being receivable under said flange when folded; said top being then foldable downwardly at the outer side of said front.

1,338,609. CLOCKWORK. GEORGES BRAUNSCHWEIG, Chaux-de-Fonds, Switzerland. Filed Apr. 26, 1919. Serial No. 292,944. 2 Claims. (Cl. 58—104.)



1. In clockworks, a device for mounting one or more movable parts of the clock movement, comprising a supporting piece and a bridge having two oppositely faced branches so as to form a double bridge for carrying within its branches the bearings of the movable part or parts, said double bridge being mounted by means of a rib and groove connection on said supporting piece and provided with means for maintaining it in its position thereon, substantially as described.

1,338,610. TRACE-HOOK. FRED BROWN, Hamilton, Ill. Filed July 7, 1919. Serial No. 308,957. 2 Claims. (Cl. 54—56.)

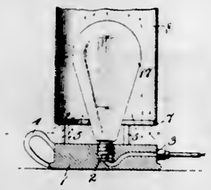


1. Trace-supporting means for harness comprising a plate having slots therein for receiving parts of the harness, a spacing member connected with said plate and having its ends concaved, a pair of hooks having rounded ends engaging the concaved ends of the said member, straps embracing the sides of the member and pivoted to the ends of the hooks, and a spring plate connected with the top of the member and having its ends engaging the hooks.

1,338,611. ELECTRICALLY-HEATED DRAFT DEVICE. WARREN A. BROWNE, Hempstead, N. Y. Filed Jan. 6, 1919. Serial No. 269,910. 4 Claims. (Cl. 219—45.)

1. A device of the character described, comprising, a base provided with a lamp socket, a plurality of resilient

members projecting vertically from said base, and a chimney supported by said resilient members with its



lower end spaced from said base, and a revolving toy supported on the upper end of the chimney.

1,338,612. PLANT-SUPPORTING CLIP. WILLIAM F. BESCHARDT, Baltimore, Md. Filed July 28, 1919. Serial No. 313,671. 1 Claim. (Cl. 47—12.)



In combination with a relatively rigid supporting member, a plant stem holding clip comprising a single length of wire bent intermediate its ends to provide a partially open loop of relatively small diameter and also bent to provide an open loop of relatively large diameter, the smaller loop being adapted for engagement upon said support and the larger loop being adapted for engagement upon the stem of a plant or blossom, the material of the clip being malleable whereby upon application of pressure thereto said normally open loop may be closed.

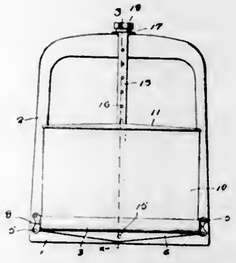
1,338,613. METHOD OF AND APPARATUS FOR TREATING ASBESTOS. OSBORN H. CILLEY, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed Jan. 9, 1920. Serial No. 350,446. 2 Claims. (Cl. 83—84.)



1. The method of refining asbestos which consists in dry dusting it to remove the lighter impurities, then washing it to eliminate the heavier non-fibrous impurities, thereafter draining out the water, mechanically pressing the water out of the fiber, then opening up the fiber and drying it.

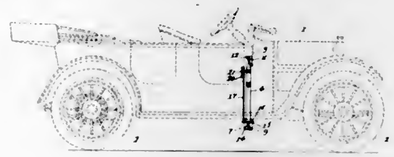
1,338,614. RADIATOR-PROTECTOR. JOHN F. DUDGEON, Norfolk, Nebr. Filed May 6, 1919. Serial No. 295,161. 2 Claims. (Cl. 257—132.)

2. In combination with a radiator, a wind protector therefor, comprising a casing secured to the outer face of the radiator at the lower portion thereof, a spring actuated roller journaled in the casing, a curtain having one end secured on said roller and its other end projecting through the casing, a plate on the outer end of the curtain having a hook, a strap on the outer face of the radiator having its lower portion secured to the radiator by one of the



elements which connect the casing to the radiator and its other end provided with a ring positioned on the water inlet spout for the radiator, and said strap having spaced apertures which are designed to receive said hook.

1,338,615. AUTO-TIRE SCOPE. WILLIAM L. DYSART and CHARLES HENRY LANIUS, Harlowton, Mont. Filed July 19, 1919. Serial No. 312,068. 1 Claim. (Cl. 88—1.)

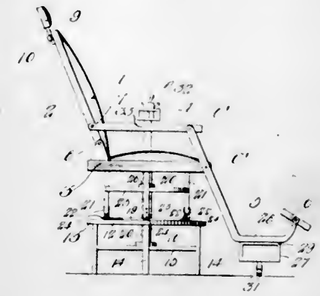


In combination with an automobile having pneumatic tires, of a device for informing occupants in the automobile of the condition of such pneumatic tires including a tube arranged vertically and passing from the interior of the body of the vehicle down through such body and having its lower end exposed beneath the vehicle, a support on the lower end of the tube extending below same, a plurality of diagonally disposed mirrors carried by said support and arranged to reflect images of the base portions of the several tires and transmitting such images up through said tube, partitions in the tube for forming separate paths for the several images, an inclined mirror at the top of the tube within the body of the automobile and observable by an occupant therein and having divided off spaces adapted to receive and reflect the several images of the tire bases transmitted up through said tube, a dust cap adapted to cover the mirrors carried by said support beneath the automobile, a vertically shiftable frame for carrying said dust cap, said frame passing up through the body of the car, and a lever fulcrumed on said tube and connected to said frame, said lever being disposed for operation by the occupant, substantially as described.

1,338,616. BARBER-CHAIR. GUSS EWING, Egypt, Miss. assignor of one-third to Robert Rowe, Egypt, Miss. Filed June 2, 1917. Serial No. 172,482. 1 Claim. (Cl. 155—7.)

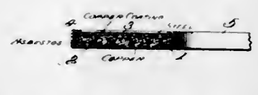
A chair of the class described comprising a base having a top provided with an opening, a circular track carried by the top, supporting legs for the top, a brace for the legs having a bearing positioned beneath and in alinement with the opening of the top, a seat, supporting legs for the seat having rollers engaging the track, a brace for the last mentioned legs having a sleeve positioned above

the opening in the top of the base, and a standard extending from the seat through the sleeve and opening in



the top of the base and fitting into the bearing of the brace for the legs of the base.

1,338,617. GASKET. PATRICK J. FITZGERALD, Torrington, Conn., assignor to The Fitzgerald Mfg. Company, Torrington, Conn., a Corporation of Connecticut. Filed May 22, 1919. Serial No. 298,936. 1 Claim. (Cl. 288—1.)



A gasket adapted to pack the joint between the cylinder block and head of an internal combustion engine, comprising an inner packing, a facing insert of copper clad steel, a copper facing, said packing, insert and facing having a plurality of openings for the cylinders, and water passages, said copper facing overlapping the exposed edges of said packing and insert about said openings and at the edges of the gasket.

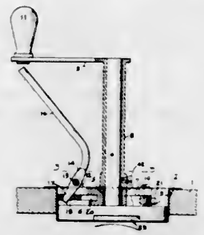
1,338,618. SELF-LOCKING SEAL. GEORGE H. FORD, Needles, Calif. Filed Feb. 9, 1918. Serial No. 216,315. 1 Claim. (Cl. 292—317.)



A car seal comprising a two-part casing having alined slots in the end walls thereof, a strip having a longitudinally disposed tongue adjacent each end and at one of the longitudinal edges thereof, said tongues being adapted to interlock when both ends of the strip are positioned within the casing, and upstruck lugs formed at the opposite longitudinal edges of the strip adjacent one of the tongues, said lugs being arranged to engage the end walls of the casing to anchor one end of the strip in the casing during the assemblage of the parts.

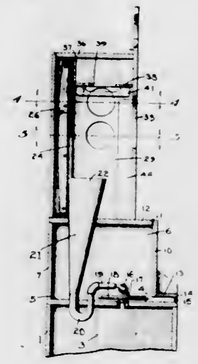
1,338,619. INSTRUMENT FOR SECURING CONCAVE METAL STOPPERS IN BARRELS OR THE LIKE. JOSEPH GALLEAZZI, San Francisco, Calif. Filed May 13, 1919. Serial No. 296,729. 5 Claims. (Cl. 113—16.)

1. In a device for securing a hollow stopper in a hole in a wall of a container, the combination of a disk adapted to be received within the stopper, a die pivotally supported on the under side of said disk and adapted, in one position, to extend beyond the disk and, in another position, to be withdrawn within the periphery of said disk, a shaft extending through the disk and having an



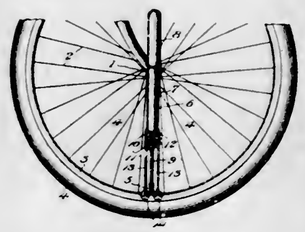
operative connection with an end of the die to turn the same from one to the other of the said positions, and means for turning said shaft.

1,338,620. MUSIC-MACHINE. DANIEL A. GILLIOM, Decatur, Ind. Filed Mar. 6, 1918. Serial No. 220,842. 1 Claim. (Cl. 274—2.)



A phonograph provided with a disk and rotating mechanism therefor, a box inclosing said disk, a second box mounted above the first mentioned box and provided with a sounding board, the walls of said upper box being perforated, and a horn opening into said upper box, the back of said horn being flattened to lie close to the sounding board, substantially as described.

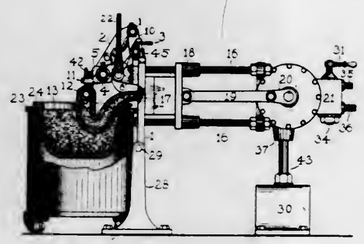
1,338,621. PUMP-SUPPORT. ADOLPH G. GIRARD, San Francisco, Calif. Filed Nov. 4, 1918. Serial No. 261,065. 1 Claim. (Cl. 230—27.)



A support for hand pumps including a split ring having its end portions extended outwardly in spaced parallel relation and apertured for forming ears, a bolt extending through the apertures of said ears and adapted for securing the ring to a hand pump, and a pair of spaced parallel

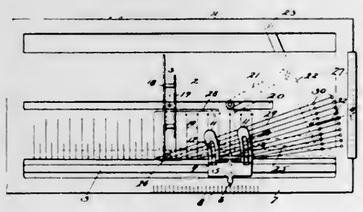
arms extending forwardly from said split ring and having their forward portions formed with enlargements adapted for engaging a wheel rim on opposite sides of the valve of the wheel, said enlargements being curved to conform to the curvature of said rim.

1,338,622. DIE-CASTING MACHINE. ALFRED HAKANSON, Brooklyn, N. Y., assignor to Chatham Die Casting Co., Inc., New York, N. Y., a Corporation of New York. Filed June 18, 1919. Serial No. 305,061. 18 Claims. (Cl. 22—69.)



1. A die casting ladle including a web uniting the major extremity thereof with the doubled portion of the same, leaving the smaller nozzle extremity of said ladle free, and means connected exclusively to said web to determine the movements of said ladle.

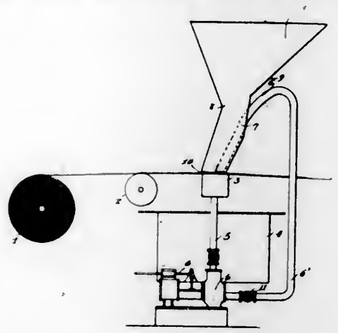
1,338,623. MEANS FOR USE IN THE FITTING OF SHOES. WILLIAM M. HALBAEH, Zurich, Switzerland. Filed Oct. 7, 1919. Serial No. 329,137. 5 Claims. (Cl. 33—3.)



1. A device for measuring the foot to determine the length of a shoe to properly fit it, comprising a foot rest, a slide movable longitudinally of the foot rest and adapted to be adjusted to the center of the ball of the foot, said slide having a pointer and the foot rest having a coöperating scale for indicating the length measure as determined by the adjustment of said slide, and a second slide also movable longitudinally of the foot rest and carrying longitudinally spaced arms which indicate the difference between the longest and shortest toe lengths, the second slide being adapted to occupy a position longitudinally of the foot rest which position is determined by the longitudinal position occupied by the slide first mentioned.

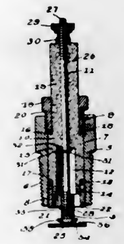
1,338,624. PROCESS OF MAKING PREPARED ROOFING. OTTO A. HEPPES, Chicago, Ill., and CHESTER E. RAHR, Brookline, Mass. Filed Dec. 5, 1918. Serial No. 265,345. 1 Claim. (Cl. 91—68.)

A process of treating roofing fabric, consisting in causing the roofing fabric to pass over a vacuum head, continuously delivering bituminous saturating liquid to the roofing fabric above the vacuum head and subjecting the



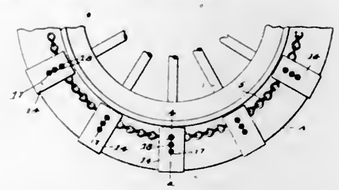
vacuum head to suction action to draw the saturating liquid into the roofing fabric.

1,338,625. IGNITION DEVICE. ALFRED H. HOADLEY, New York, N. Y. Filed May 20, 1918. Serial No. 235,441. 2 Claims. (Cl. 123—169.)



1. A spark plug comprising a base, an insulator extending through said base, an electrode connected with said base and extending across the lower end thereof, a second electrode extending through said insulator and having its end toward said first named electrode threaded, and a sparking member threaded upon said second named electrode and adjustable thereon whereby the distance between said sparking member and said first named electrode may be varied, the lower end of said sparking member being closed and convex.

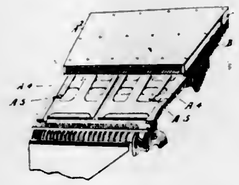
1,338,626. NON-SKID CHAIN. EARL H. HODGES, Killam, Alberta, Canada. Filed Dec. 6, 1918. Serial No. 265,664. 1 Claim. (Cl. 152—14.)



A device of the character described comprising a pair of side chains adapted to be disposed upon the sides of a tire in circumferential relation thereto, cross chains connecting said side chains at spaced intervals, each cross chain including at each end a pair of links each having a pair of transverse bars, means for securing the ends of said side chains together, and a plurality of plates associated with one side chain, each plate being provided with

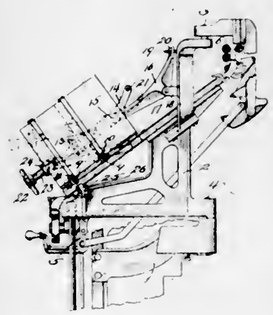
a plurality of holes, a bolt passing through one of said holes and between the transverse bars in the link next adjacent the endmost link of the cross chain, and other bolts passing through the remaining holes and engaging the transverse bars in the endmost link of the cross chain.

1,338,627. MAGAZINE FOR TYPOGRAPHICAL MACHINES. THOMAS S. HOMANS, Hempstead, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 7, 1918. Serial No. 233,052. 5 Claims. (Cl. 199—46.)



1. In a typographical machine, the combination with a magazine supporting frame, of a magazine divided into upper and lower sections, means on the supporting frame for holding the upper magazine section in longitudinal position, and means on the upper magazine section for holding the lower magazine section from longitudinal separation relatively to the upper section.

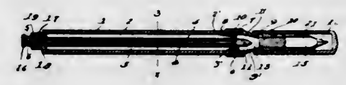
1,338,628. TYPOGRAPHICAL MACHINE. THOMAS S. HOMANS, Hempstead, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 19, 1919. Serial No. 278,037. 8 Claims. (Cl. 199—45.)



8. In a typographical machine comprising a main frame and distributing and assembling mechanisms mounted thereon, a magazine frame having a plurality of sides each adapted to receive a matrix magazine, and a support on which said magazine frame is rotatable to bring any one of the magazines thereon into position for use, said support being movable relatively to the main frame in a direction transversely of the axis of rotation of the magazine frame, whereby the magazine selected for use may be moved into and out of coöperative relation with the distributing and assembling mechanism, the main frame providing a support for the selected magazine when the same is in position for use.

1,338,629. FOUNTAIN-PEN. CARLYLE E. HOOD, Memphis, Tenn. Filed Apr. 7, 1919. Serial No. 288,111. 2 Claims. (Cl. 120—48.)

1. A fountain pen of the class described comprising a holder having a pair of reservoirs therein, a penpoint carried by the holder, channels extending from said point to the reservoirs, a disk having an opening therein for con-



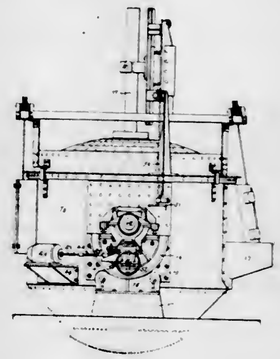
trolling the connections of the reservoirs with the channels, a rod passing through the holder and connected with the disk and means for turning the rod.

1,338,630. TIRE-CARRIER. HENRY H. HORROCKS, Philadelphia, Pa., assignor to William Horrocks and Henry H. Horrocks, trading as William Horrocks & Son, Philadelphia, Pa. Filed Mar. 21, 1919. Serial No. 284,108. 3 Claims. (Cl. 224—29.)



1. The combination in a tire carrier, of a tire supporting structure; and at least one tire retaining device mounted on said structure, said device consisting of an L-shaped member; a bar having one of its ends pivoted to one of the arms of said member; an arm pivoted to the other end of said bar and having an opening; a lever fulcrumed to the free end of the other arm of the L-shaped member; a member pivoted to the lever having a hook to enter said opening of the arm; and means for locking the lever to the L-shaped member in position to prevent the removal of the hook from the opening of said arm.

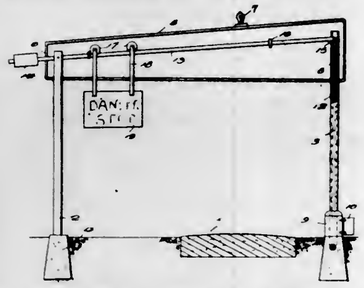
1,338,631. ELECTRIC FURNACE. JONAS HERLENIUS, Brooklyn, N. Y., assignor to Hamilton & Hansell, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 8, 1918. Serial No. 216,013. 7 Claims. (Cl. 204—64.)



1. An electric furnace having an apertured side wall, an electrode projecting with clearance through the aperture in the side wall into the furnace chamber, a pivotal

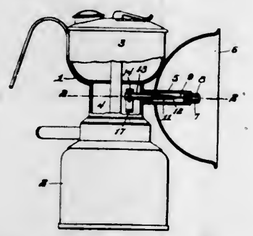
support for said electrode exterior to the furnace shell, and a flat packing ring surrounding said electrode substantially in the plane of the pivotal axis of the electrode support to prevent leakage of air into the furnace chamber through the electrode opening in the side wall thereof.

1,338,632. RAILWAY-SIGNAL. OSCAR JACKSON, Danville, Ill., assignor of forty-eight one-hundredths to Otto E. Newman, Danville, Ill. Filed May 9, 1918. Serial No. 233,524. 2 Claims. (Cl. 246—128.)



1. In a device of the character described including spaced tubular uprights one of which is provided near its upper end with a vertical slot, a track member pivoted to the upper end of the other of said uprights at a point near one of its ends and having the end of its long portion arranged in the slot in said upright, a weight carried by the end of the short portion of the track member, a plunger movable vertically in the slotted upright pivoted to the adjacent end of said track member, a carriage mounted on the track, stops for limiting movement of the carriage on said track member, signals carried by the carriage, and train actuated means connected to the lower end of the slotted upright for coacting with the plunger for moving the plunger and the track member downwardly to cause the carriage to assume a signaling position.

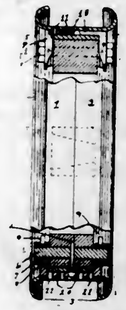
1,338,633. BURNER-TIP CLEANER. GEORGE W. JOHNSTON, Jr., Rathmel, Pa. Filed Oct. 2, 1919. Serial No. 327,887. 3 Claims. (Cl. 158—120.)



3. A lamp having a gas chamber and a burner tube communicating therewith, a burner tip fitted within said tube, a needle mounted to reciprocate within the tube and burner tip, a bushing tube fitted within the gas chamber at right angles to the needle, a carrier engaging the needle, a rock shaft journaled in the bushing tube and having a crank member for reciprocating said carrier, a cap adjustably engaging the bushing tube, and packing between said cap and the outer end of the bushing tube.

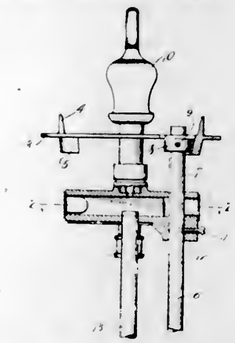
1,338,634. VEHICLE-WHEEL. LINWOOD F. JORDAN, Portland, Me. Filed Oct. 17, 1918. Serial No. 258,509. 4 Claims. (Cl. 152—21.)

1. In a vehicle wheel, a permanent rim in combination with a tire rim comprising two similar members having adjacent contacting edges when in position, each provided with wedges secured to the inside of each member and having external flanges, and means engaging said flanges



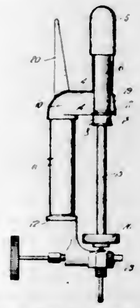
adapted to force either member off from the permanent rim.

1,338,635. SHADE-HOLDER SUPPORT FOR LAMPS. ADOLPH G. KAUFMAN, New York, N. Y. Filed July 15, 1919. Serial No. 310,928. 4 Claims. (Cl. 240—111.)



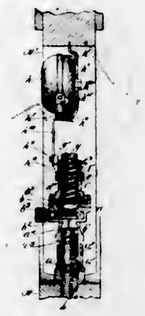
1. In a lamp burning vapor mixed with air, a shade holder support comprising a standard supporting the part commingling the air and vapor and burning the same, said standard being provided with an extension on which the shade holder is mounted, and being connected with the air intake in a manner whereby the inflowing air will pass the standard connection.

1,338,636. HYDROCARBON-LIGHT. ADOLPH G. KAUFMAN, New York, N. Y. Filed July 25, 1919. Serial No. 313,345. 5 Claims. (Cl. 67—50.)



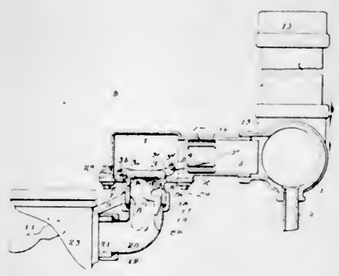
1. In a hydrocarbon light, a burner head having a portion adapted to receive the end of a vaporizer with a guide leading to the vaporizer entrance, and having a portion adapted to receive one end of an air-intake tube.

1,338,637. AUTOMATIC TELLTALE FOR PNEUMATIC TIRES. JOHN E. KENNEDY, Glens Falls, N. Y. Filed Dec. 12, 1916, Serial No. 136,580. Renewed Sept. 19, 1919. Serial No. 325,038. 9 Claims. (Cl. 116—1.)



1. An automatic tell-tale for pneumatic tires for wheels embracing in combination a hollow casing connected to the valve stem of the tire, a pressure-controlled member mounted to move on said casing, an automatically-actuated alarm mechanism mounted on the wheel in proximity to said casing, a movable keeper arranged to be held in position by engagement with said pressure-controlled member to prevent the actuation of the alarm mechanism to sound said alarm and normally movable out of engagement with said member when the tire pressure has fallen to a predetermined point in order to permanently release the alarm, substantially as described.

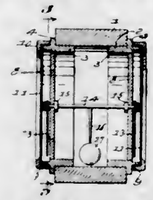
1,338,638. FLUSHING-VALVE. WILLIAM FRANKLIN KNELL, Detroit, Mich. Filed Oct. 18, 1919. Serial No. 331,541. 16 Claims. (Cl. 4—5.)



1. In a flushing valve, a casing having an inlet and an outlet; a sliding piston valve closing said inlet; a hinged valve closing the outlet; a toggle connection between the valves whereby the valves are locked in closed position; and manually operable means for opening the valves.

1,338,639. GRAVITY LEVEL AND PLUMB. JOHN EMIL LILLBERG, Dover, Mont. Filed Dec. 31, 1918. Serial No. 269,080. 1 Claim. (Cl. 33—215.)

A tool of the kind described comprising a stock formed with a transverse bore, thimbles disposed on both sides of the stock and entering the bore, each thimble being formed with a peripheral flange lying against the outer face of the stock and having ears at diametrically opposite sides of the flange, fasteners passing through the ears and securing the thimbles to the stock, disks set in the thimbles and lying in substantially the same planes as the flanges, each disk having its outer face provided with a dial, a shaft rotatably mounted in and carried between the two disks and provided with a gravity actuated element playing between the two thimbles, pointers carried by the shaft and playing over the dials on the disks, the thimbles being formed with externally threaded annular flanges in



surrounding relation to the disks, glass covers lying against the outer edges of the annular flanges, and internally threaded bezels engaging the annular flanges and securing the glass covers in place.

1,338,640. ANTISKID-SANDER FOR AUTOMOBILES. EARL M. LITTELL, Indianapolis, Ind. Filed Oct. 21, 1919. Serial No. 332,248. 5 Claims. (Cl. 291—28.)



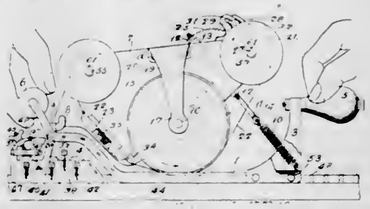
5. The combination with an automobile, of sand-holding receptacles having discharges upon the roadway, closures for said discharges, stirrers in the receptacles which also measure the amount of sand discharged, and manually operated means for opening and closing the closures and for simultaneously operating the stirrers.

1,338,641. PAWL-SPRING. PAUL LUX, Waterbury, Conn., assignor to The Lux Clock Manufacturing Company Inc., Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 15, 1919. Serial No. 330,730. 5 Claims. (Cl. 74—16.)



1. The combination with the main wheel of a clock having an opening formed therein, of a pawl pivotally mounted on said wheel, a main wheel frictional washer associated with said main wheel, and a spring disposed between said main wheel and washer having one of its ends extended through the opening of said main wheel in the path of travel of said pawl.

1,338,642. HAND-PRINTER FOR MAILER-STRIPS AND PROOF-SHEETS. LEANDER WALTER MILLSAP, Jr., Los Angeles, Calif. Filed July 30, 1917. Serial No. 183,804. 3 Claims. (Cl. 101—250.)



3. A printing device adapted for taking proofs comprising a base; a frame attached to the base; a platen on

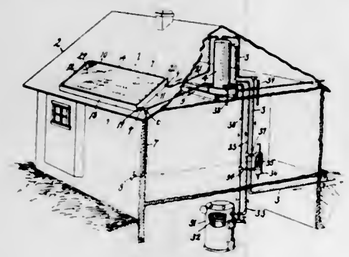
the frame adapted to be held normally, automatically, resiliently and universally movable upon types at the base; and means for supplying a movable strip of paper between the platen and the type.

1,338,643. CAN-OPENER. EUGENE O. MURMANN, Glendale, Calif. Filed Mar. 10, 1919. Serial No. 281,759. 3 Claims. (Cl. 30—3.)



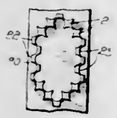
1. A can opener comprising a handle having a knife thereon for cutting downwardly, and a fulcrum member having a fulcrum at its forward end for disposal beneath the lip of a can, said fulcrum member and knife being movably secured in parallel relation so that said fulcrum member may be disposed in cutting position to cover the penetrating tip of said knife, said fulcrum member having means disposed along side of said handle whereby to maintain said knife and fulcrum in cutting position.

1,338,644. SOLAR HEATER. EDWARD D. ARTHUR and WILLIAM G. CARTTER, Arcadia, Calif. Filed Feb. 10, 1919. Serial No. 276,207. 8 Claims. (Cl. 126—271.)



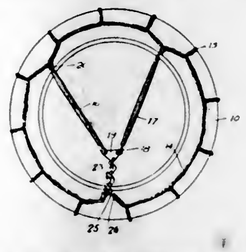
7. In a solar heater, a glass covered casing; water pipes in said casing; and heat conducting means connecting the pipes with said glass.

1,338,645. PRINTING APPARATUS. DOUGLAS F. FESLER and HERBERT R. HEDMAN, Chicago, Ill., assignors to Hedman Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1919. Serial No. 318,901. 16 Claims. (Cl. 101—20.)



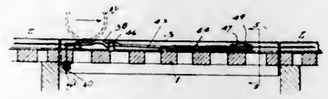
1. Printing apparatus of the class described comprising a platen provided with a plurality of indenting points, a type support carrying a raised type character having a flat smooth printing face, said type character conformed to pass down between the indenting points of the platen, without the printing face engaging the indenting points when type and platen are moved into engagement one with the other.

1,338,646. SELF-ADJUSTING DEVICE FOR HOLDING AND TENSIONING ANTISKID-CHAINS. FRANK L. FOLWELL, Des Moines, Iowa. Filed Mar. 25, 1919. Serial No. 285,024. 2 Claims. (Cl. 152—14.)



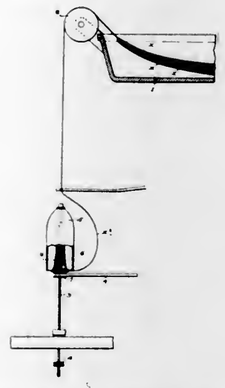
1. In a device of the class described, a pair of coil springs, a link device operatively connected with one end of each spring, said link device comprising a series of links pivotally connected together, each having portions arranged at substantial angles with relation to each other, and a ring mounted on said link device and capable of sliding over the joints between the links.

1,338,647. RECORDING DEVICE. GEORGE H. FROGGATT, GEORGE A. FROGGATT, and THOMAS E. FROGGATT, Columbus, Ohio. Filed Mar. 3, 1919. Serial No. 280,436. 3 Claims. (Cl. 265—9.)



1. The combination with a platform, weighing means in connection therewith, a die wheel and connections between said die wheel and said weighing means for rotating the said die wheel, of a tape for the die wheel, means for feeding the tape, a spring actuated arm having a hammer head, a depressible lever having flexible connection with said hammer arm for raising and holding the same and means for releasing the hammer arm to permit of working stroke thereof.

1,338,648. METHOD AND APPARATUS FOR WINDING ARTIFICIAL SILK. WILLIAM H. FURNESS, National Park, N. J. Filed June 17, 1919. Serial No. 304,906. 6 Claims. (Cl. 118—69.)



2. The method which consists in feeding a series of filaments; rotating said filaments substantially coaxial

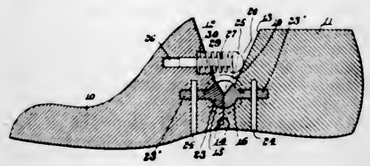
with their line of feed to cause them to be twisted; and laying the resulting thread in layers of successively increasing diameter and substantially without the exertion of tension thereon.

1,338,649. AUTOMATIC OR SEMI-AUTOMATIC FIREARM. HUGH WILLIAM GABBETT-FAIRFAX, London, England. Filed July 5, 1919. Serial No. 308,757. 9 Claims. (Cl. 42—3.)



1. In a firearm of the kind in which the breech mechanism is actuated by gases generated from the explosive charge, the provision between the gases and the breech-operating mechanism of a confined column of air which is compressed by the explosive gases, a floating piston between the gases and the column of air, a second piston connected to the breech-operating mechanism and adapted to be operated by the compressed air, means for locking the second piston until the column of air is fully compressed, and means operated by the floating piston for releasing the second piston after the compression stage is complete and thus allowing the compressed air to expand and operate the breech mechanism.

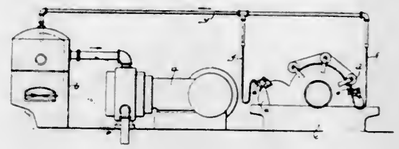
1,338,650. LAST. EDWARD W. GERRISH, Lynn, Mass. Filed Sept. 10, 1919. Serial No. 323,176. 10 Claims. (Cl. 12—136.)



1. In a last, a fore-part; a heel-part; segments of a cylinder secured to said parts with contacting faces below the axis of said cylinder and separated faces above said axis; and means preventing separation of said segments while permitting movement about said axis.

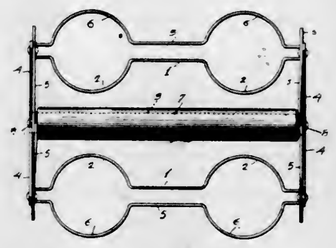
1,338,651. PNEUMATIC CARD-CLEANING APPARATUS. WILLIAM H. GOLDSMITH, Jr., Quincy, Mass. Filed June 19, 1918. Serial No. 240,882. 6 Claims. (Cl. 19—15.)

5. A vacuum card cleaning apparatus comprising the combination with a traveling carding element having bent wires, of a suction nozzle arranged with its inlet opening adjacent to the extremities of said wires, that boundary of the opening at the side away from which the wires incline being unobstructed to permit free passage of air, and an air obstructing member extending from



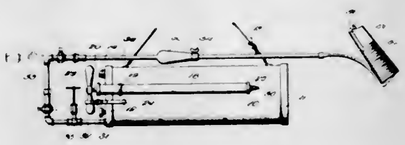
the opposite boundary of said opening approximately parallel to the carding element.

1,338,652. BOTTLE-HOLDER. OLE HALVORSEN, San Francisco, Calif. Filed Aug. 25, 1919. Serial No. 319,847. 5 Claims. (Cl. 294—87.)



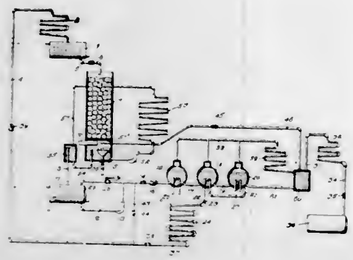
1. A bottle holder comprising a body portion provided with oppositely positioned recesses and having upwardly extending standards on each end thereof; a jaw pivotally mounted on each side of the frame and to the standards and provided with recesses arranged to register with the recesses in the body; and a suitable handle connecting the jaws and arranged to close said jaws onto the body when said handle is raised.

1,338,653. TORCH OR BURNER. BENJIMAN F. HARDT and SAMUEL T. TAYLOR, San Saba, Tex. Filed Apr. 7, 1919. Serial No. 288,172. 1 Claim. (Cl. 158—33.)



A burner of the class described including a horizontally arraned tank, a horizontal pipe extending longitudinally from one end of said tank adjacent its bottom, a vertical pipe carried by the outer end of said horizontal pipe in spaced relation to the adjacent end of the tank, a second horizontal pipe carried by the upper end of said vertical pipe and arranged in spaced relation to said horizontal tank, a swivel member interposed in said vertical pipe to permit said second named horizontal pipe to be swung about a vertical axis whereby the same may be positioned over and in spaced parallel relation to said tank when in an inoperative position, a second swivel member interposed in said second named horizontal pipe, whereby the outer portion of said second named horizontal pipe may be rotated about a horizontal axis, and a discharge jet carried by the outer end of said second named pipe.

1,338,654. PROCESS OF CHLORIN LIQUEFACTION. CLARK T. HENDERSON, Milwaukee, Wis., assignor to Niagara Smelting Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Feb. 10, 1917. Serial No. 147,768. 15 Claims. (Cl. 23—10.)



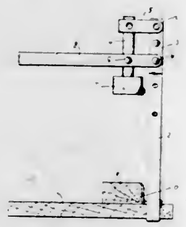
1. The process of chlorin liquefaction which comprises dissolving chlorin in carbon tetrachlorid and then driving off the chlorin into a condenser where it is liquefied by the pressure thus produced.

1,338,655. BESSEMERIZING IRON. RICHARD S. MCCAFFERY, Madison, Wis. Filed Nov. 13, 1918. Serial No. 262,272. 12 Claims. (Cl. 266—43.)



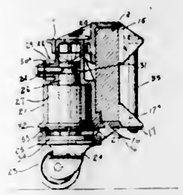
1. The process of refining iron which comprises bessemerizing a bath of molten metal, without basic additions, in a converter provided with an acid lining, except in the region contacting with the basic products which may be liberated during the performance of the process; substantially as described.

1,338,656. BOTTLE-CAPPER. ELMER ROLAND SHARP, Davenport, Iowa, assignor to Reinhold, Sharp & Company, Davenport, Iowa. Filed Apr. 23, 1919. Serial No. 292,103. 1 Claim. (Cl. 226—84.)



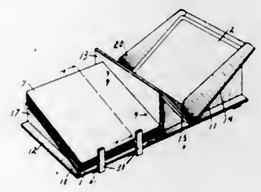
A device of the class described, comprising a base; a triangular strap-metal frame mounted thereon, and having its sides projected upwardly into a support of double formation; a strap-metal link of double formation pivoted to said support; a bottle capping tool pivotally supported from said link; and a strap-metal lever of double formation, pivoted to said support, and pivotally connected with said bottle capping tool.

1,338,657. ATTACHING MEMBER FOR AXLE AND CASTER HOUSINGS FOR TRUCKS. FREDERICK J. TRUMPOUR, Washington, D. C., assignor to Newton D. Baker, Secretary of War. Filed Sept. 26, 1919. Serial No. 326,673. 2 Claims. (Cl. 280—86.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a truck, in combination, a sill, upper and lower attaching members partially inclosing said sill, a housing for a movable element mounted on said lower member, said housing being provided with a portion of reduced diameter, an apertured bracket on said upper attaching member, adapted to receive and support said portion in said aperture, and binding means located externally to said sill to cause said members to grip said sill.

1,338,658. BINDER DEVICE. GEORGE P. WIGGINTON, Kalamazoo, Mich., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Filed Feb. 2, 1917. Serial No. 146,105. 25 Claims. (Cl. 129—41.)



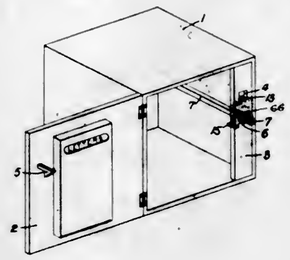
3. The combination with loose sheets and a temporary binder therefor comprising separably associated binder members, of a pair of holders adapted to support the binder members with sheets superimposed thereon, the sheets being transferable from one holder to the other, and a support adapted to be arranged on such holders to support the binder member arranged thereon and the superimposed sheets in a transversely or longitudinally inclined relation.

24. The combination of loose sheets and a temporary binder therefor comprising binder members upon which the sheets may be superimposed when the binder is opened, and a sheet alining tray having a flat unobstructed face removably associated with said binder and adapted to be superimposed upon one of the binder members or the sheets superimposed thereon to facilitate the alining of sheets to be inserted in the binder.

1,338,659. SAFETY-BOX FOR MILK OR THE LIKE. LAWRENTY ANTONUK, Montreal, Quebec, Canada, assignor of forty-nine per cent. to Steve Mikalkavitch, Middletown, Pa. Filed July 25, 1919. Serial No. 313,396. 8 Claims. (Cl. 232—41.)

1. In a safety box of the character described, the combination of a receptacle having a receiving aperture; a door for closing said aperture and provided with a detent; a support mounted in said aperture; a controller movably mounted in said support; a locking element yieldingly

carried by said support and engageable automatically with said detent when the door is fully closed, to hold said door against opening; and means mounted on said con-



troller for operation upon said locking element to move the same relatively to the controller and thereby disengage it from said detent.

1,338,660. MILK-BOTTLE HANDLE. CHARLES DUTCHER, Seattle, Wash. Filed Apr. 15, 1919. Serial No. 290,138. 1 Claim. (Cl. 215—1.)



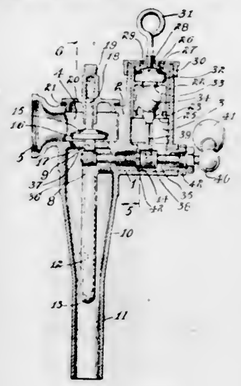
A milk bottle holder comprising a wire bent to encircle the bottle neck, the ends of this wire being provided with hooks adapted to be sprung into interlocking engagement, said wire at diametrically opposite points being provided with upstanding loops of inverted U shape open at the bottom forming handle engaging ears and acting as yielding members to accommodate the holder to varying sizes of bottle necks, and a handle having its ends secured to said loops.

1,338,661. ACETYL CELLULOSE AND PROCESS OF MAKING THE SAME. WILLIAM GODSON LINDSAY, Newark, N. J., assignor to The Celluloid Company, a Corporation of New Jersey. Original application filed Apr. 8, 1911, Serial No. 619,685. Patent No. 1,236,578, dated Aug. 14, 1917. Divided and application filed July 11, 1914, Serial No. 850,431. Patent No. 1,265,216, dated May 7, 1918. Divided and this application filed Apr. 9, 1918. Serial No. 227,488. 2 Claims. (Cl. 23—24.)

1. The process of producing acetyl cellulose, which consists in treating cellulose with benzene and alcohol, and then subjecting the impregnated cellulose to an acetylizing mixture containing acetic anhydrid and benzene.

1,338,662. FILLING-FAUCET. PHILIPP WIRTH, New York, N. Y. Filed June 18, 1918. Serial No. 240,606. 11 Claims. (Cl. 226—120.)

1. In a filling faucet for containers, a fluid conducting barrel adapted to be inserted within the container and communicating with a fluid inlet, a valve controlling the communication between the barrel and the inlet, a shaft carrying mechanism for engaging the valve to open it and for holding the valve in open position, and means adapted to operate under a predetermined fluid pressure from within the container to release the holding mecha



nism and permit the shaft to rotate to cause the closing of the valve.

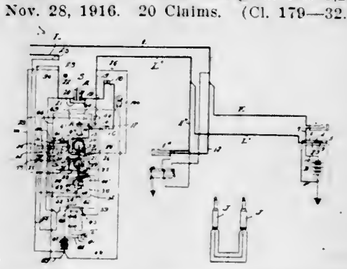
REISSUES.

14,847. SPARK-PLUG. CHARLES HUGH DUFFY, Chevy Chase, Md. Filed Mar. 13, 1920. Serial No. 365,643. Original No. 1,260,884, dated Mar. 26, 1918, Serial No. 183,549, filed July 30, 1917. 24 Claims. (Cl. 123—169.)



1. A spark plug comprising a metal shell threaded for connection with a motor, and having an internal bore and an internal shoulder, an insulating core and suitable electrodes, a gland for connection with said shell, a tubular portion on said gland and integral therewith and an internal shoulder therein, said tubular portion being adapted to receive said insulating core, the end of said tubular portion being adapted to engage the said shoulder in said shell to spin said end of said tubular portion under said insulating core and between the same and said shoulder in said shell, upon rotation of said gland in said shell.

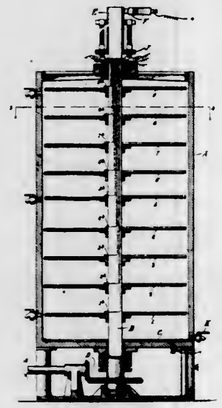
14,848. TELEPHONE SYSTEM. RUBEN CHRISTOPHER MILLER HASTINGS, Columbus, Ohio, assignor to International Telephone Co., Columbus, Ohio. Filed Dec. 27, 1917. Serial No. 209,178. Original application filed Apr. 11, 1912, Serial No. 690,014. Renewed Aug. 20, 1913, Serial No. 785,818. Original No. 1,206,761, dated Nov. 28, 1916. 20 Claims. (Cl. 179—32.)



1. A telephone system, having an exchange station and a plurality of substations, each substation having a cir-

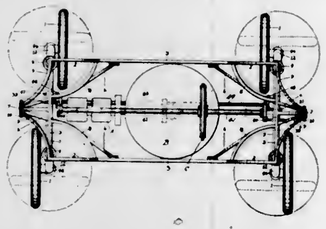
cuit including a local battery, a call alarm in the circuit, and means controlled by the insertion and removal of a calling plug in its socket at the exchange station to close and open the call alarm circuit.

14,849. PROCESS OF ELECTROCHEMICAL PRECIPITATION OF METALS. EDWARD ROYAL HOLDEN, Los Angeles, Calif. Filed Oct. 30, 1919. Serial No. 334,552. Original application filed Oct. 10, 1916, Serial No. 124,902. Renewed Nov. 5, 1917, Serial No. 200,456. Original No. 1,269,565, dated June 11, 1918. 3 Claims. (Cl. 204—15.)



1. The process of precipitation of metals from solution by introducing an electric current at a plurality of points throughout a solution, and by regulating the resistance thereto, producing and maintaining any desired density of current throughout the electrolyte, substantially as set forth.

14,850. MOTOR-VEHICLE. CHARLES B. STEELE, Philadelphia, Pa. Filed Dec. 24, 1918. Serial No. 268,178. Original No. 1,214,968, dated Feb. 6, 1917, Serial No. 368,806, filed Apr. 18, 1907. 35 Claims. (Cl. 180—45.) Division B.



1. In a motor vehicle, a frame provided with end beams, connected with side beams, substantially at right angles with the side beams, said side beams being bowed upward at each end near their union with the end beams, an extension at each end of the frame from the center of each end beam, the outer end of the extension being curved downwardly, braces connecting each corner of the frame with the outer end of the extension, said braces being curved and adapted to admit of the wheels passing beneath them.

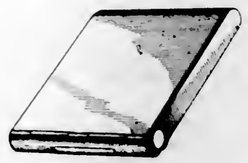
DESIGNS.

54,978. BUTTON, BADGE, WATCH-CHARM, OR LOCKET. WILLIAM N. BEST, Brooklyn, N. Y. Filed Jan. 7, 1918. Serial No. 210,774. Term of patent 7 years.



The ornamental design for a button, badge, watch-charm, or locket, as shown and described.

54,979. CIGARETTE-CASE. FRANK H. BLACKMARR, Chicago, Ill. Filed Oct. 22, 1917. Serial No. 197,969. Term of patent 14 years.



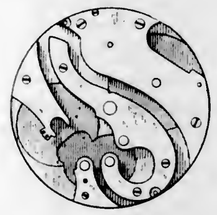
The ornamental design for a cigarette case, as shown.

54,980. TOOTH CLEANING AND POLISHING DEVICE. GILDEROY O. BURLEW, Newark, N. J. Filed Sept. 23, 1919. Serial No. 325,782. Term of patent 7 years.



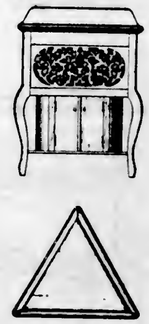
The ornamental design for a tooth cleaning and polishing device, as shown.

54,981. BRIDGE-PLATE FOR WATCH-MOVEMENTS. CHARLES F. COLOMB, West Hoboken, N. J., assignor to A. Wittnauer Co., New York, N. Y., a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,408. Term of patent 14 years.



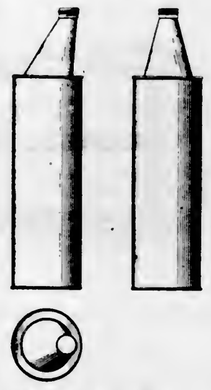
The ornamental design for a bridge plate for watch-movements as shown.

54,982. PHONOGRAPH-CABINET. MEYER DAVIS, Chicago, Ill. Filed Jan. 9, 1920. Serial No. 350,459. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

54,983. OIL-CAN. FREDERICK D. GATCHELL, New York, N. Y., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Nov. 21, 1919. Serial No. 339,737. Term of patent 14 years.



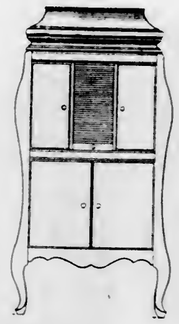
The ornamental design for an oil can, as shown.

54,984. COMBINATION PHONOGRAPH AND LAMP-STANDARD. PETER R. GONSKY, Chicago, Ill. Filed June 12, 1919. Serial No. 303,789. Term of patent 14 years.



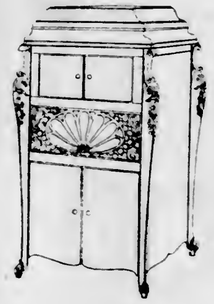
The ornamental design for a combination phonograph and lamp standard, as shown.

54,985. PHONOGRAPH-CABINET. WILLIAM A. MANGLESS, Chicago, Ill. Filed Apr. 18, 1919. Serial No. 291,144. Term of patent 3½ years.



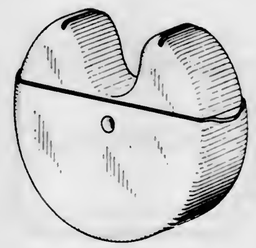
The original design for a phonograph cabinet, as shown.

54,986. PHONOGRAPH-CABINET. WILLIAM A. MANGLESS, Chicago, Ill., assignor to American Automatic Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1919. Serial No. 341,336. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

54,987. INHALER. ERNEST HENRY METCALF, Marlboro, N. H. Filed Nov. 3, 1919. Serial No. 335,556. Term of patent 14 years.



The ornamental design for an inhaler, as shown.

54,988. PHONOGRAPH-CABINET. CHARLES Y. NELLIS, Greenville, Ohio. Filed July 24, 1919. Serial No. 313,110. Term of patent 14 years.



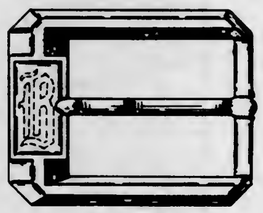
A design for a phonograph cabinet, substantially as shown and described.

54,989. TALKING-MACHINE. ROBERT L. POE, Chicago, Ill., assignor to Shell-O-Phone Talking Machine Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 6, 1919. Serial No. 322,201. Term of patent 14 years.



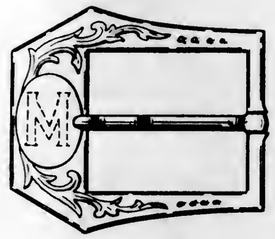
The ornamental design for a talking machine as shown.

54,990. BELT-BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,531. Term of patent 7 years.



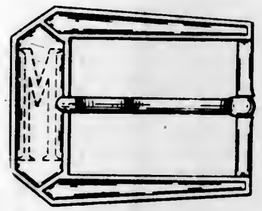
The ornamental design for a belt buckle, as shown.

54,991. BELT-BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,532. Term of patent 7 years.



The ornamental design for a belt buckle, as shown.

54,992. BELT-BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y.. a Corporation. Filed Dec. 4, 1919. Serial No. 342,533. Term of patent 7 years.



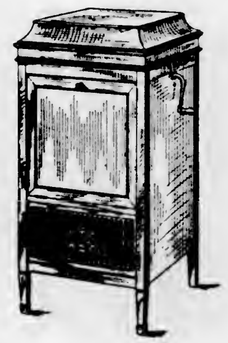
The ornamental design for a belt buckle, as shown.

54,993. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,121. Term of patent 14 years.



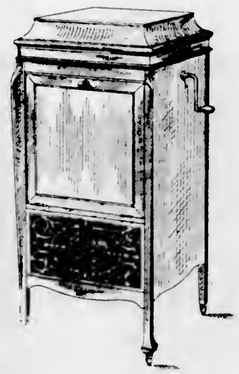
The ornamental design for a phonograph cabinet, substantially as shown.

54,994. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,122. Term of patent 14 years.



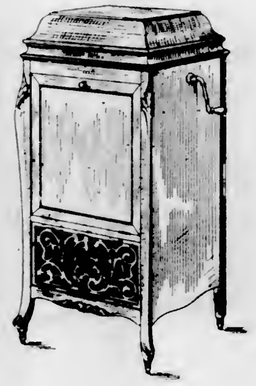
The ornamental design for a phonograph cabinet, substantially as shown.

54,995. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,123. Term of patent 14 years.



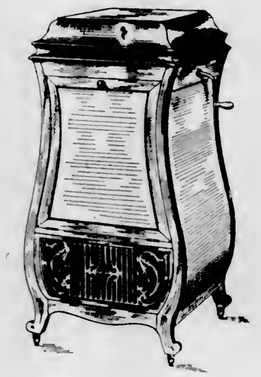
The ornamental design for a phonograph cabinet, substantially as shown.

54,996. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,124. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

54,997. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,125. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

54,998. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,126. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

54,999. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,127. Term of patent 14 years.



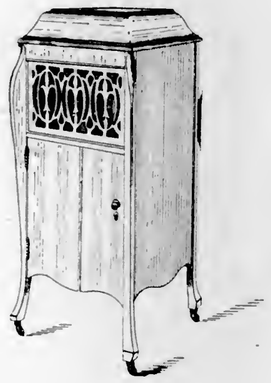
The ornamental design for a phonograph cabinet, substantially as shown.

55,000. PHONOGRAPH-CABINET. WILLIAM H. THOMMEN, Plymouth, Wis., assignor to United Phonographs Corporation, Sheboygan, Wis. Filed Oct. 24, 1919. Serial No. 333,128. Term of patent 14 years.



The ornamental design for a phonograph cabinet, substantially as shown.

55,001. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Nov. 20, 1918. Serial No. 263,426. Term of patent 7 years.



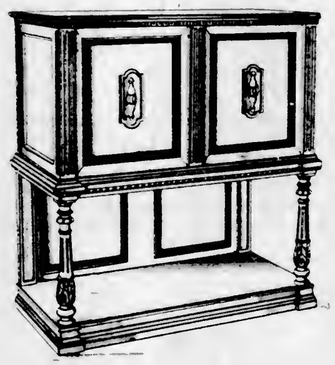
The ornamental design for a phonograph cabinet, substantially as shown.

55,002. SPOON OR SIMILAR ARTICLE. F. RUSSELL WOODWARD, Attleboro, Mass., assignor to The Watson Company, Attleboro, Mass. Filed Dec. 6, 1919. Serial No. 343,136. Term of patent 3½ years.



The ornamental design for a spoon or similar article as shown.

55,003. PHONOGRAPH-CABINET. DAVID ZORK, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,601. Term of patent 7 years.



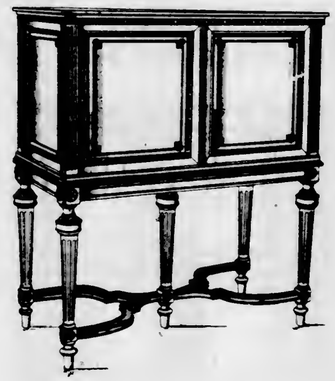
The ornamental design for a phonograph cabinet, as shown.

55,004. PHONOGRAPH-CABINET. DAVID ZORK, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,602. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

55,005. PHONOGRAPH-CABINET. DAVID ZORK, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,603. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

55,006. PHONOGRAPH-CABINET. DAVID ZORK, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,604. Term of patent 7 years.



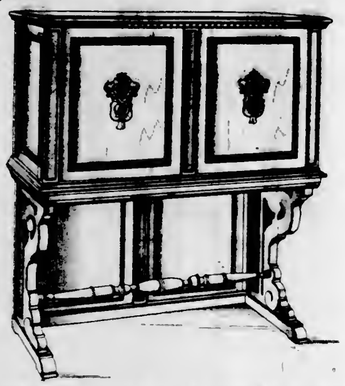
The ornamental design for a phonograph cabinet, as shown.

55,007. PHONOGRAPH-CABINET. DAVID ZORK, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,605. Term of patent 7 years.



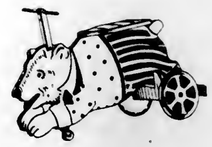
The ornamental design for a phonograph cabinet, as shown.

55,008. PHONOGRAPH-CABINET. DAVID ZORK, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,606. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

55,009. TOY CAR. FRANK R. BAIER, Chicago, Ill., assignor to Oliver M. Burton, Chicago, Ill. Filed May 8, 1919. Serial No. 295,777. Term of patent 14 years.



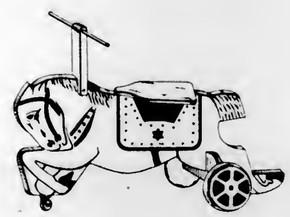
The ornamental design for a toy car, as shown.

55,010. TOY CAR. FRANK R. BAIER, Chicago, Ill., assignor to Oliver M. Burton, Chicago, Ill. Filed May 8, 1919. Serial No. 295,778. Term of patent 14 years.



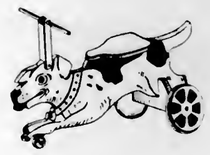
The ornamental design for a toy car, as shown.

55,011. TOY CAR. FRANK R. BAIER, Chicago, Ill., assignor to Oliver M. Burton, Chicago, Ill. Filed May 8, 1919. Serial No. 295,779. Term of patent 14 years.



The ornamental design for a toy car, as shown.

55,012. TOY CAR. FRANK R. BAIER, Chicago, Ill., assignor to Oliver M. Burton, Chicago, Ill. Filed May 8, 1919. Serial No. 295,780. Term of patent 14 years.



The ornamental design for a toy car, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 27, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 101,780. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ST. LOUIS BRASS MFG. CO., St. Louis, Mo. Filed Feb. 28, 1917.

CONCEALITE

Particular description of goods.—Electric-Lighting Fixtures.
Claims use since November, 1916.

Ser. No. 101,781. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ST. LOUIS BRASS MFG. CO., St. Louis, Mo. Filed Feb. 28, 1917.

BANKERLITE

Particular description of goods.—Electric-Lighting Fixtures.
Claims use since December, 1914.

Ser. No. 106,747. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. SIMPSON SONS & CO., Philadelphia, Pa. Filed Oct. 12, 1917.



JALAPA DRIL

No claim being made to the exclusive use of the word "Dril" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods, Cotton and Silk Dress Goods, and Cotton and Worsted Dress Goods.
Claims use since about Sept. 22, 1917.

Ser. No. 109,112. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VITANOLA TALKING MACHINE CO., Chicago, Ill. Filed Feb. 18, 1918.



No claim is made to the representation of the talking-machine apart from the mark shown in the drawing.
Particular description of goods.—Talking-Machines.
Claims use since Dec. 5, 1917.

Ser. No. 112,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YARDLEY & CO., LIMITED, London, England. Filed July 10, 1918.

VANITY FAIR

Particular description of goods.—Perfumes.
Claims use since Jan. 31, 1916.

Ser. No. 112,346. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed July 26, 1918.

White Lily

Consisting of the words "White Lily."
Particular description of goods.—Gasolenes.
Claims use since 1893.

Ser. No. 113,830. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KEYSTONE FRUIT PRODUCTS COMPANY, Cincinnati, Ohio. Filed Oct. 21, 1918.

Ke Kola

Particular description of goods.—A Non-Alcoholic Non-Cereal Maltless Syrup for Use in Making Soda-Water Beverages to be Sold as Soft Drinks.
Claims use since May 1, 1918.

Ser. No. 115,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDER SEYMOUR MANN, Providence, R. I. Filed Feb. 3, 1919.

SEPTORAL

Particular description of goods.—Liquid Antiseptic.
Claims use since September, 1918.

Ser. No. 115,608. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN BAPTISTE CLEMENT BALME, New York, N. Y. Filed Feb. 4, 1919.

HENALFA

Particular description of goods.—Hair-Coloring.
Claims use since January, 1917.

Ser. No. 115,937. (CLASS 39. CLOTHING.) AMERICUS R. UNDERDOWN, Jr., Haddonfield, N. J. Filed Feb. 17, 1919.



CAMEL BRAND

No claim being made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Moleskin Sheep-Lined Coats, Rubber Coats, and Heavy Duck Gunning-Coats for Use as Overcoats in Bad Weather.
Claims use since Jan. 1, 1919.

Ser. No. 116,046. (CLASS 39. CLOTHING.) HERBERT COCKSHAW, New York, N. Y. Filed Feb. 21, 1919.

Mary Arden

Particular description of goods.—Corsets.
Claims use since prior to Jan. 28, 1919.

Ser. No. 116,213. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REX PAINT CORPORATION, New York, N. Y. Filed Feb. 28, 1919.



Particular description of goods.—Ready-Mixed Paint, Ready-Mixed Inside and Outside Enamels, Ready-Mixed Colors in Oil, and Varnish.
Claims use since Sept. 1, 1918.

Ser. No. 116,685. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMILE F. KICK, Newark, N. J. Filed Mar. 18, 1919.

MELANGEOL

Particular description of goods.—A Sulfureted Oil to be Used in Emulsifying Raw Oils.
Claims use since February, 1918.

Ser. No. 117,536. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CONRAD G. MOLLER, township of New Canaan, Fairfield county, Conn. Filed Apr. 16, 1919.

TRAVLKLEEN



Showing the figure of a man carrying a traveling-bag and the word "Travlkleen," said figure being fanciful and not a portrait of any individual.
Particular description of goods.—Soaps.
Claims use since Mar. 1, 1919.

Ser. No. 117,658. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRE BROS. & Co., LIMITED, Leicester, England. Filed Apr. 21, 1919.



PANSY

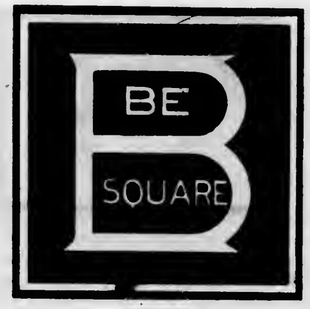
Particular description of goods.—Elastic Web.
Claims use since Dec. 5, 1917.

Ser. No. 118,027. (CLASS 39. CLOTHING.) UNITED STAY COMPANY, Cambridge, Mass. Filed Apr. 30, 1919.

USC

Particular description of goods.—Bindings, Pipings, Facings, and Trimmings of Leather for Use in the Manufacture of Shoes.
Claims use since Feb. 23, 1915.

Ser. No. 118,460. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BUBCH PLOW WORKS COMPANY, Crestline, Ohio. Filed May 14, 1919.



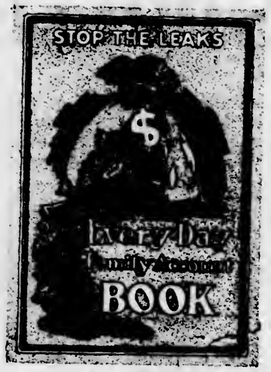
Particular description of goods.—Agricultural Implements—Namely, Plows, Cultivators, and Harrows of All Kinds; Land-Rollers, Soil-Pulverizers and Soil-Packers, Weeders, Manure-Spreaders, Lime-Sowers, Stone Unloaders and Spreaders, Seed-Sowers and Seed-Cleaners, and Fertilizer-Distributers, Stone-Crushers.
Claims use since the 18th day of December, 1897.

Ser. No. 118,718. (CLASS 2. RECEPTACLES.) VICTORY BAG & PAPER CO., Marinette, Wis., and Chicago, Ill. Filed May 19, 1919.

PEDIGREE KRAFT

The mark consisting of the word "Pedigree," no exclusive claim being made to the word "Kraft" apart from the mark shown.
Particular description of goods.—Paper Bags.
Claims use since Mar. 1, 1919.

Ser. No. 118,983. (CLASS 37. PAPER AND STATIONERY.) THE BICKMORE CO., Oldtown, Me. Filed May 28, 1919.



No claim being made to the exclusive use of the words "Every-Day Family Account Book" apart from the mark shown.
Particular description of goods.—Account-Books.
Claims use since Jan. 1, 1919.

Ser. No. 119,310. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEHN & FINK, INC., New York, N. Y. Filed June 7, 1919.

PEBECO

Particular description of goods.—Tooth-Paste.
Claims use since about December, 1903.

Ser. No. 119,348. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LIBERTY STEEL PRODUCTS COMPANY, INC., New York, N. Y. Filed June 9, 1919.



Particular description of goods.—Rubber Tires.
Claims use since Apr. 5, 1919.

Ser. No. 119,500. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DWIGHT DIVINE & SONS, Ellenville, N. Y. Filed June 12, 1919.

KINGSTON

Said word being arranged with the initial "K" considerably larger than the rest of the word and provided with two parallel lines extending from the upper and lower serif of the "K" between which the rest of the word is printed.
Particular description of goods.—Pocket-Knives and Penknives, Kitchen-Knives, Nursery-Knives, Budding and Pruner Knives, Office-Knives, Knife Erasers, Cotton-Knives, Sugar-Cane Knives, and Skeleton Knives.
Claims use since June, 1915.

Ser. No. 119,819. (CLASS 39. CLOTHING.) WOOLEATHER, INC., Salem, Mass. Filed June 20, 1919.

"Wooleather"

Particular description of goods.—Sandals, Shoes, and Slippers Made of Leather, Fabric, and Combinations.
Claims use since Feb. 13, 1919.

Ser. No. 119,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TEDDEY SAFRONIK, Buchanan, Saskatchewan, Canada. Filed June 25, 1919.

FRONIKA

The trade-mark consists of the word "Fronika."
Particular description of goods.—A Salve for the Treatment of Bruises, Pimples, Eczema, and All Skin Diseases.
Claims use since Jan. 1, 1919.

Ser. No. 120,438. (CLASS 39. CLOTHING.) STRAUS, ROYER & STRASS, INC., Baltimore, Md. Filed July 10, 1919.

Nayvee

Particular description of goods.—Children's Middy-Blouses.
Claims use since about May 1, 1919.

Ser. No. 120,834. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LETZ MANUFACTURING CO., Crown Point, Ind. Filed July 23, 1919.

Letz

Particular description of goods.—Stock-Feed Crushers and Feed-Grinders and Parts Thereof, Corn-Planters, and Burs for Feed-Mills.
Claims use since Jan. 1, 1892.

Ser. No. 120,984. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARMS COMPANY, Newark, N. J. Filed July 28, 1919.

CHARMS

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Made from Fruit-Flavors and Sold as Soft Drinks.
Claims use since July 23, 1919.

Ser. No. 121,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAWKEYE OIL COMPANY, Waterloo, Iowa. Filed Aug. 8, 1919.

MEDICRUDE

Particular description of goods.—Medicated Crude Oil for Treating Cutaneous Diseases of Animals.
Claims use since on or about June 1, 1916.

Ser. No. 121,408. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW HAMPTON MILLS, New York, N. Y. Filed Aug. 8, 1919.



No claim being made herein to the words "Mull, One-O-Six" apart from the mark shown in the drawing.
Particular description of goods.—Textile Fabric of a Silk and Cotton Mixture in the Piece.
Claims use since Mar. 1, 1919.

Ser. No. 121,582. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRAMPTON CHEMICAL CO., Seattle, Wash. Filed Aug. 12, 1919.

FRAM

The trade-mark consists of the word "Fram."
Particular description of goods.—Soaps—Namely, Hand-Soap, Face-Soap, Toilet Soap, Laundry Soap, and Liquid Soap; Cleansers for Furniture, Clothing, Fixtures, and Furnishings; Skin-Cleansers, and Metal-Polishers.
Claims use since July 21, 1919.

Ser. No. 121,743. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Aug. 18, 1919.

SPRITE

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages in Different Flavors and Character Sold as Soft Drinks, Particularly Ginger-Ale, Birch-Beer, and Like Beverages, of Which Water Forms a Large Part Thereof.
Claims use since Dec. 26, 1918.

Ser. No. 121,812. (CLASS 11. INKS AND INKING MATERIALS.) FREDERICK MALCHOW, Brooklyn, N. Y. Filed Aug. 19, 1919.

EMBOSSINE

Particular description of goods.—Embossing Composition.
Claims use since Apr. 1, 1919.

Ser. No. 121,872. (CLASS 39. CLOTHING.) THE PRISCILLA COMPANY, Boston, Mass. Filed Aug. 21, 1919.

Kiddyville

Particular description of goods.—Children's Wearing-Apparel—Namely, Dresses, Rompers, Petticoats, Drawers, Waists, Combinations, Socks, Slippers, Collars, Cuffs, Overalls, Hats, Caps, Sunbonnets, Baby-Bonnets, Bibs, Capicoats, Wrappers, Nightingales, Sleeping-Bags, Nightgowns, Pajamas, Bath-Robes, Bootees, Aprons, Bonnet-Strings, Carriage-Boots, Shirts, Bands, Mittens, Child's Muff.
Claims use since June 2, 1919.

Ser. No. 121,896. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) IMPERIAL BELTING COMPANY, Chicago, Ill. Filed Aug. 22, 1919.

REXALL

Particular description of goods.—Elevator, Conveyer, or Transmission Belting of Rubber, Cotton, Silk, Flax, Fabrics, Fiber, Leather, Metal, Composition, or Any Combination of These Materials.
Claims use since Apr. 5, 1910.

Ser. No. 121,940. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ISIDOR KELLERMAN, New York, N. Y. Filed Aug. 23, 1919.



No claim being made to the exclusive use of the words "Crystal Polish" or to the phrase "A Polish That Lasts" apart from the mark as shown in the drawing.
Particular description of goods.—Furniture and Automobile-Body Polishes.
Claims use since about Jan. 1, 1918.

Ser. No. 122,386. (CLASS 15. OILS AND GREASES.) CHICKASAW REFINING COMPANY, Ardmore, Okla. Filed Sept. 6, 1919.

"Pep" GASOLINE

Applicant disclaims any exclusive appropriation of the word "Gasoline."
Particular description of goods.—Gasolene.
Claims use since May 22, 1918.

Ser. No. 122,441. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) LION BREWERY OF NEW YORK CITY, New York, N. Y. Filed Sept. 8, 1919.



LION BREW

Applicant disclaims all rights to the word "Brew" apart from the mark shown on the drawing.
Particular description of goods.—A Non-Intoxicating Beverage Made of Malt and Having Less Than One-Half of One Per Cent. of Alcohol by Volume.
Claims use since Aug. 28, 1919.

Ser. No. 122,601. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) C. KERN PRODUCTS CO., Port Huron, Mich. Filed Sept. 12, 1919.

Cream of Michigan

Particular description of goods.—A Cereal Beverage Containing Malt and Less Than One-Half of One Per Cent. by Volume of Alcohol.
Claims use since May 1, 1918.

Ser. No. 122,626. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORAL MANUFACTURING COMPANY, Norristown, Pa. Filed Sept. 13, 1919.



The exclusive use of the words "Bath Rug" appearing on the drawing is hereby disclaimed except when used in connection with the other features shown on the drawing.

Particular description of goods.—Carpets and Rugs Formed of Rags, Cotton, or Mixtures of the Same.

Claims use since Jan. 1, 1918.

Ser. No. 122,628. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORAL MANUFACTURING COMPANY, Norristown, Pa. Filed Sept. 13, 1919.



No claim is made to the word "Rug" appearing on the drawing apart from the mark shown on the drawing.

Particular description of goods.—Carpets and Rugs Formed of Rags, Cotton, or Mixtures of the Same.

Claims use since Jan. 1, 1918.

Ser. No. 122,629. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORAL MANUFACTURING COMPANY, Norristown, Pa. Filed Sept. 13, 1919.



No claim is made to the word "Rug" apart from the mark shown on the drawing.

Particular description of goods.—Carpets and Rugs Formed of Rags, Cotton, or Mixtures of the Same.

Claims use since Jan. 1, 1918.

Ser. No. 122,732. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RETONA PRODUCTS COMPANY, Dayton, Ohio. Filed Sept. 15, 1919.

RETONA

Particular description of goods.—Laxative Tablets and Tonic for Internal Use as a Reconstructive and System-Building Preparation.

Claims use since about the 1st of April, 1919.

Ser. No. 122,814. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BROWN & ZORTMAN MACHINERY CO., Pittsburgh, Pa. Filed Sept. 18, 1919.



The exclusive use *per se* of the name-plate and the following words as shown on the drawing are disclaimed apart from the mark as shown by the said drawing—namely, "High Grade Machinery" and "Pittsburgh, Pa., U. S. A." The lining on the drawing is for shading only.

Particular description of goods.—Metal and Wood Working Machinery Comprising Lathes, Milling-Machines, Planers, Drills Radial, Drills Upright, Boring-Mills, Steam-Hammers, Grinders, Pipe-Machines, Key-Seaters, Shapers, Slotters, Punches, Shears, Power-Presses, Hydraulic Presses, and Gear-Cutters.

Claims use since 1901.

Ser. No. 122,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STAVISKY & GREENSTONE, INC., New York, N. Y. Filed Sept. 18, 1919.



The section-lines in the drawing indicate a red border, no claim being made to the word "Silks" shown in said drawing.

Particular description of goods.—Silk in the Piece.

Claims use since Sept. 12, 1919.

Ser. No. 122,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDER RAYMOND CARNEY, Fresno, Calif. Filed Sept. 19, 1919.

ELK BAYOU

Particular description of goods.—Fresh Plums.

Claims use since July 1, 1919.

Ser. No. 123,360. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) NATIONAL CONDUIT & CABLE COMPANY, INC., Hastings-on-Hudson, N. Y. Filed Oct. 2, 1919.

NACONCA

Particular description of goods.—Bare Copper Wire and Bare Copper Cable, Sheet-Brass and Sheet-Bronze, and Brass and Bronze Rods.

Claims use since April, 1919.

Ser. No. 123,588½. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FLORENCE J. WITT, Columbus, Ohio. Filed October 9, 1919.



The line shown thereon representing shading only, no claim being made to the representation of the shoe apart from the other features of the mark.

Particular description of goods.—Paste for Shoe-Dressing.

Claims use since about Sept. 16, 1919.

Ser. No. 123,687. (CLASS 5. ADHESIVES.) DEEDS & CHAPIN, Indianapolis, Ind. Filed Oct. 11, 1919.

CINCH STEEL CEMENT

The words "Steel Cement" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Cementing Composition Used to Join Pieces of Metal, More Especially Steel.

Claims use since October 3, 1919.

Ser. No. 123,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NASHVILLE ROLLER MILLS, Nashville, Tenn. Filed Oct. 14, 1919.



Particular description of goods.—Wheat-Flour.

Claims use since Aug. 26, 1919.

Ser. No. 123,911. (CLASS 39. CLOTHING.) KARL M. STONE, New York, N. Y. Filed Oct. 17, 1919.

Sicony

Particular description of goods.—Leather, Canvas, and Fabric Boots, Shoes, and Slippers, Kimonos, and Negligées.

Claims use since 1915.

Ser. No. 123,990. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LORRAINE WATCH CO. INC., New York, N. Y. Filed Oct. 20, 1919.

LADY LORRAINE



The drawing being lined to indicate shading and not color.

Particular description of goods.—Watches.

Claims use since Sept. 10, 1919.

Ser. No. 124,191. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY & GRIFFIN, Lowell, Mass., assignor to Stanley-Griffin, Lowell, Mass., a Corporation of Massachusetts. Filed Oct. 25, 1919.



The representation of a head in the trade-mark being fanciful.

Particular description of goods.—A Preparation for the Treatment of Consumption and Tuberculosis.

Claims use since Sept. 29, 1919.

Ser. No. 124,406. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Oct. 31, 1919.

ACRASIA

Particular description of goods.—Perfume, Toilet Water, Sachet-Powder, Talcum Powder, Face-Powder, Bath-Powder, Bath-Salts, Headache-Cologne, Smelling-Salts, Almond-Meal, Toilet Cerate, Cold-Cream, Dry Cream, Lip-Rouge, Tooth-Powder, and Tooth-Paste.

Claims use on perfume since Sept. 24, 1919; on toilet water since Sept. 11, 1919: on sachet-powder since Oct. 1, 1919, and on the remaining goods since Oct. 20, 1919.

Ser. No. 124,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Oct. 31, 1919.

WATTEAU

Particular description of goods.—Perfume, Toilet Water, Sachet-Powder, Talcum Powder, Face-Powder, Bath-Powder, Bath-Salts, Headache-Cologne, Smelling-Salts, Almond-Meal, Toilet Cerate, Cold-Cream, Dry Cream, Lip-Rouge, Tooth-Powder, and Tooth-Paste.

Claims use on perfume since Sept. 24, 1919; on toilet water since Sept. 11, 1919: on sachet-powder since Oct. 1, 1919, and on the remaining goods since Oct. 20, 1919.

Ser. No. 124,419. (CLASS 39. CLOTHING.) STEPHEN PUTNEY SHOE CO., Richmond, Va. Filed Oct. 31, 1919.



The appropriation to the use of the words "The Non-Deceptive Sole & Heel Finish" is disclaimed apart from the mark as shown in the drawing. The appropriation to the use of the representation of a shoe-sole is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Boots and Shoes of Leather for Men, Women, and Children.

Claims use since about Oct. 15, 1919.

Ser. No. 124,463. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) YOUNG AND KLOTS, New York, N. Y. Filed Nov. 1, 1919.

GUMITE

Particular description of goods.—Varnish, Ready-Mixed Paints, Roofing-Paints, Asphalt Paints, Enamel Paints, and Lacquers.

Claims use since Apr. 2, 1919.

Ser. No. 124,506. (CLASS 37. PAPER AND STATIONERY.) THE WALL PAPER MANUFACTURERS, LTD., London, England. Filed Nov. 3, 1919.



Particular description of goods.—Paper Hangings.

Claims use since the year 1860.

Ser. No. 124,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBT. W. MURRAY, Birmingham, Ala. Filed Nov. 4, 1919.



Particular description of goods.—A Medicinal Treatment for Colds and Grippe.

Claims use for two years.

Ser. No. 124,725. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAYO-SKINNER MFG. COMPANY, Chicago, Ill. Filed Nov. 10, 1919.

MAYO

Particular description of goods.—Appliances Used upon or in Connection with Automobiles—Namely, Hand-Operated Air-Pumps, Power-Operated Air-Pumps, Air-Compressors, Pumps Operated by Engine Compression, Oil and Grease Pumps, Grease-Guns, and Oil-Can Holders.

Claims use since Sept. 1, 1911.

Ser. No. 124,758. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONIA KURMAN, New York, N. Y. Filed Nov. 11, 1919.

"THE SONIA"



The portrait shown in drawing being that of the applicant herein.

Particular description of goods.—Hair-Tonic.

Claims use since November, 1917.

Ser. No. 124,957. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANK P. SMITH, Huntington, Ind. Filed Nov. 15, 1919.

NU-SHINE

IT HAS NEVER CHECKED YET

No claim being made for the exclusive use of the word "Nu-Shine" or the phrase "It Has Never Checked Yet" apart from the mark shown in the drawing.

Particular description of goods.—A Polish for Furniture and Automobiles.

Claims use since Jan. 1, 1915.

Ser. No. 125,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MICROBA ANTISEPTIC COMPANY, Grand Forks, N. D. Filed Nov. 22, 1919.



Particular description of goods.—Antiseptics, Salves for Burns and Scalds, Rusty-Nail Wounds, Insect and Animal Bites, Ulcers, Old Wounds, Running Sores, Cold-Sores, Rough and Sore Lips, Chapped Hands, and other Skin Diseases; Penetrating Oils for Sprains, Rheumatism, Neuralgia, Sore Throat, Tonsillitis, Bronchitis, Cold in the Chest, and Inflammation; Catarrh-Balm, Pile-Ointment, Dyspepsia-Powder, Laxatives, and Nebulizing Mixture, Shampoo.

Claims use since July 1, 1915.

Ser. No. 125,213. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) A. B. MANUFACTURING COMPANY, Providence, R. I. Filed Nov. 24, 1919.



Particular description of goods.—Jewelry for Personal Adornment Not Including Watches.

Claims use since Oct. 1, 1919.

Ser. No. 125,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCIAL CHEMICAL CO., Memphis, Tenn. Filed Nov. 25, 1919.

In the drawing the word "Whiff-O" and the section of the lower portion of the panel comprising the mark are lined for red, indicating a red coloration, while the upper part of the panel is partly lined for green, indicating a green coloration, said coloring forming an irregular border around the word "Whiff-O." The lining in the border of the panel is for shading only. No claim is made to the words "Insecticide, Germicide, Deodorizer, Disinfectant" and the firm name and address of the applicant apart from the mark shown by the drawing.



Particular description of goods.—An Insecticide and Germicide, Deodorizer, and Disinfectant, Non-Poisonous, for Use in the Extermination of Roaches, Water-Bugs, Ants, Flies, Mosquitos, Moths, Gnats, &c., Screw-Worms, Animal Parasites, and Certain other Insects That Affect Stock, Stable, and Stall, and for Disinfectant Purposes.

Claims use since Oct. 1, 1918.

Ser. No. 125,276. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCIAL CHEMICAL CO., Memphis, Tenn. Filed Nov. 25, 1919.



In the drawing the mark, comprising in part a shield, is lined for red, indicating a red coloration, with the words "Good-Bye-Fly" shown in white and with a deep shading of black. No claim is made to the words "Did It" apart from the mark shown by the drawing.

Particular description of goods.—An Insecticide and Germicide, Deodorizer, and Disinfectant, Non-Poisonous, for Use in the Extermination of Roaches, Water-Bugs, Ants, Flies, Mosquitos, Moths, Gnats, &c., Screw-Worms, Animal Parasites, and Certain other Insects That Affect Stock, Stable, and Stall, and for Disinfectant Purposes.

Claims use since Oct. 1, 1918.

Ser. No. 125,321. (CLASS 7. CORDAGE.) EAGLE COTTON MILLS COMPANY, Madison, Ind. Filed Nov. 26, 1919.

MAGNOLIA

Particular description of goods.—Rope, Yarns, and Cotton Twines and Cordage.
Claims use since Nov. 10, 1919.

Ser. No. 125,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP FUCHS, New York, N. Y. Filed Nov. 26, 1919.



Particular description of goods.—Salves and Ointments for Treatment of the Human Skin.
Claims use since Aug. 1, 1919.

Ser. No. 125,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AIDOL MEDICINE CO., New York, N. Y. Filed Nov. 28, 1919.



Particular description of goods.—Liniment for Treatment of Rheumatism, &c.
Claims use since Jan. 25, 1913.

Ser. No. 125,404. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) N. A. STRAND & COMPANY, Chicago, Ill. Filed Nov. 28, 1919.



No claim being made for the words "Flexible Shafts" and the representation of flexible shafting apart from the mark shown in the drawing.
Particular description of goods.—Flexible Shafting.
Claims use since May 1, 1919.

Ser. No. 125,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAURA J. LARIVEE, Detroit, Mich. Filed Dec. 1, 1919.



The Mascot

A pictorial representation of a dog's head.
Particular description of goods.—A Scalp-Ointment.
Claims use since the 1st day of November, 1919.

Ser. No. 125,478. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOWARD S. SMITH, Trenton, N. J. Filed Dec. 1, 1919.

"IODINOL"

Particular description of goods.—A Preparation for the Treatment of Rheumatism, Neuritis, Painful and Swollen Glands, and Like Troubles.
Claims use since May 1, 1918.

Ser. No. 125,482. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ZELDA SALES COMPANY, Wilmington, Del. Filed Dec. 1, 1919.

ZELDA

Particular description of goods.—Face-Powder, Talcum Powder, Cold-Cream, Vanishing-Cream, Face-Cream, Toilet Water, Rouge, and Perfumery Extract.
Claims use since Nov. 14, 1919.

Ser. No. 125,508. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MONARCH FOUNDRY COMPANY, Stockton, Calif. Filed Dec. 2, 1919.



Particular description of goods.—Iron, Steel, Semisteel, Brass, Bronze, and Aluminum Castings and Forgings of All Kinds.
Claims use since on or about Jan. 1, 1916.

Ser. No. 125,528. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BUDA COMPANY, Harvey, Ill. Filed Dec. 3, 1919. Under ten-year proviso.

BUDA

Particular description of goods.—Gasolene-Engines, Lifting-Jacks, Track-Drills, Bonding-Drills, Tool-Grinders, Rail-Benders, and Switch-Stands.
Claims use since 1881.

Ser. No. 125,551. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. WINTHROP TEWKSBURY, New York, N. Y. Filed Dec. 3, 1919.



Particular description of goods.—Electrical Heaters for Air.
Claims use since Sept. 25, 1919.

Ser. No. 125,578. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PEPPAS & ALEX COMPANY, Chicago, Ill. Filed Dec. 4, 1919.



No claim being made to the words "The Victory Shoe Polish Mfg. Co." apart from the mark shown in the drawing.
Particular description of goods.—Liquid and Paste Polish for Shoes, Sole and Heel Dressing, Cleaning-Powders for Shoes, and Shoe-Dressing Creams.
Claims use since Apr. 1, 1919.

Ser. No. 125,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EFLOROSE SUGAR CO., Cincinnati, Ohio. Filed Dec. 5, 1919.

ESCOMALT

Particular description of goods.—A Malt Syrup Used for Food Purposes—Namely, a Substitute for Sugar.
Claims use since July 1, 1919.

Ser. No. 125,612. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FABART INSTRUMENT CO., Chicago, Ill. Filed Dec. 5, 1919.

Fireklok
ON GUARD FOR LIFE

No claim is made to the exclusive right to the use of the words "On Guard for Life" apart from the mark as shown.
Particular description of goods.—Mechanical Fire-Alarms Comprising Self-Actuated Gongs and Soft-Metal Fuse-Heads for the Same.
Claims use since Jan. 1, 1919.

Ser. No. 125,659. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOY FOOD PRODUCTS CO., Kansas City, Mo. Filed Dec. 6, 1919.

JOY O'WHEAT

Particular description of goods.—Breakfast Food Consisting of a Wheat Derivative.
Claims use since Oct. 1, 1919.

Ser. No. 125,804. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PORTER E. RAMSEY, Richmond, Va. Filed Dec. 10, 1919.



Particular description of goods.—Spark-Boosters or Spark-Intensifiers.
Claims use since Oct. 30, 1919.

Ser. No. 125,825. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BULOVA-HENSHEL CO., New York, N. Y. Filed Dec. 11, 1919.

GENII

Consisting of the word "Genii."
Particular description of goods.—Artificial Pearls.
Claims use since Nov. 18, 1919.

Ser. No. 125,832. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH H. CALISHER, New York, N. Y. Filed Dec. 11, 1919.

JARDIN
-de-
PARIS

Particular description of goods.—Tooth-Powder, Toilet Water, Bay-Rum, Shampoo Preparations, Hair-Tonic, Perfumery Extracts, Almond-Meal, Cold-Cream, Vanishing Cream, Cucumber-Cream, Vegetal, Skin-Lotion, Face-Powder, Talcum Powder, Deodorizing-Powder, Rouge, Bath-Powder, Face-Cream, Orris-Root, Rose-Water and Glycerin, Brilliantine, Smelling-Salts, Dry Toilet-Cream, Compact Face-Powder, Rice Powder, Sachet Powder, Liquid Face-Powder, Lip-Stick and Nail-Polish.
Claims use since January, 1913.

Ser. No. 125,846. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. F. HALLADAY & SON, Battle Creek, Mich. Filed Dec. 11, 1919.

SENATE

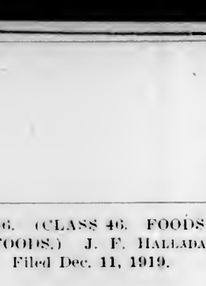
Particular description of goods.—Catsup, Vinegar, Peas, Coffee, and Rolled Oats.
Claims use since 1900.

Ser. No. 125,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EME-TONE TOOTH PASTE CO., Detroit, Mich. Filed Dec. 12, 1919.

EME-TONE

Particular description of goods.—Tooth-Paste.
Claims use since May 1, 1916.

Ser. No. 125,910. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RHODES METALLIC PACK CO. INC., Shreveport, La. Filed Dec. 12, 1919.



Particular description of goods.—Metallic Rod-Packing.
Claims use since Jan. 1, 1919.

Ser. No. 125,922. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WESTERN WHEELED SCRAPER COMPANY, Aurora, Ill. Filed Dec. 12, 1919.

Western

Particular description of goods.—Wheeled Scrapers, Drag-Scrapers, Fresno Scrapers, Trench-Fillers, Road-Graders, Road-Machines, Road-Drags, Road-Planers, Road and Grading Machines, Road and Grading Plows, Rock-Crushers, and Elevating-Graders.
Claims use since Apr. 14, 1891.

Ser. No. 125,991. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY WAIS, Newark, N. J. Filed Dec. 13, 1919.



The picture shown in the drawing is a portrait of the proprietress.
Particular description of goods.—A General Medicinal Tonic.
Claims use since Jan. 2, 1919.

Ser. No. 126,092. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Dec. 16, 1919.

SIR WILLIAM CROOKES

Particular description of goods.—Ophthalmic Lenses and Lenses for Optical Instruments and Appliances.
Claims use since Apr. 9, 1915.

Ser. No. 126,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RALPH F. BURNHAM, Auburn, Me. Filed Dec. 16, 1919.

EUKATHOL

The word "Eukathol."
Particular description of goods.—Antiseptic Alkaline Solution Used as a Mouth-Wash and for Treating Inflamed Conditions of the Nose, Throat, and Mouth.
Claims use since January, 1910.

Ser. No. 126,125. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) INTERNATIONAL CORK COMPANY, Brooklyn, N. Y. Filed Dec. 16, 1919.

RE-LY-ON

The word "Re-Ly-On."
Particular description of goods.—Cork Disks, Washers, and Gaskets.
Claims use since July 10, 1919.

Ser. No. 126,157. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WICHITA MILL & ELEVATOR COMPANY, Wichita Falls, Tex. Filed Dec. 16, 1919.



BAKERS PRIDE

Particular description of goods.—Wheat-Flour.
Claims use since January of 1902.

Ser. No. 126,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WICHITA MILL & ELEVATOR COMPANY, Wichita Falls, Tex. Filed Dec. 16, 1919.

BAKERS PRIDE

Particular description of goods.—Wheat-Flour.
Claims use since January, 1902.

Ser. No. 126,159. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WICHITA MILL & ELEVATOR COMPANY, Wichita Falls, Tex. Filed Dec. 16, 1919.



Particular description of goods.—Wheat-Flour.
Claims use since January of 1902.

Ser. No. 126,185. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES V. KNIGHT, Portsmouth, Va. Filed Dec. 17, 1919.

SOUTH CREEK

Particular description of goods.—Chill and Fever Tonic.
Claims use since Apr. 1, 1914.

Ser. No. 126,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEONARD E. BEACH, Baltimore, Md. Filed Dec. 18, 1919.

BE-CHEL-ETS

Particular description of goods.—Cathartic Medicine.
Claims use since April, 1915.

Ser. No. 126,207. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH C. R. CHAREST, Detroit, Mich. Filed Dec. 18, 1919.

ENURESOL

Particular description of goods.—Reconstruction Tonic.
Claims use since May 4, 1918.

Ser. No. 126,228. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARKHILL M'F'G CO., Fitchburg, Mass. Filed Dec. 18, 1919.



No claim being made to the exclusive use of the word "Fabrics" apart from the mark as shown in the drawing.
Particular description of goods.—Ginghams in the Piece and Cotton Piece Goods.
Claims use since 1903.

Ser. No. 126,230. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PRICE MEDICINE CO., Terre Haute Ind. Filed Dec. 18, 1919.

FETIDA

Particular description of goods.—A Remedy for Constipation, Stomach and Nervous Troubles, and as a Preventive of Influenza and Grippe.
Claims use since Nov. 1, 1917.

Ser. No. 126,238. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN D. WATKINS, Memphis, Tenn. Filed Dec. 18, 1919.

SANMEL

Consisting of the word "Sanmel."
Particular description of goods.—Toilet Preparation—viz., Skin-Cream.
Claims use since Nov. 19, 1919.

Ser. No. 126,239. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HENRY ZIMMERN & COMPANY, INC., New York, N. Y. Filed Dec. 18, 1919.

"Quick Fit"

Comprising the words "Quick Fit."

Particular description of goods.—Watch and Clock Parts Consisting of Mainsprings, Hair-Springs, Hands, Staffs, Jewels, Wheels, Pinions, and Screws.

Claims use since about June 1, 1919.

Ser. No. 126,244. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DENTAL PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 19, 1919.

Conducto

Particular description of goods.—Anesthetic Tablets.

Claims use since Apr. 1, 1919.

Ser. No. 126,248. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAFFAELE A. FARESE, Newark, N. J. Filed Dec. 19, 1919.

FARESE'S HAIR INVIGORATOR

The trade-mark consists of a fanciful design in blue, with the words "Farese's" and "Hair Invigorator" displayed thereon, the use of the words "Farese's" and "Hair Invigorator" as a trade-mark apart from the mark shown in the accompanying drawing being, however, disclaimed.

Particular description of goods.—Hair-Invigorator.

Claims use since about May 1, 1915.

Ser. No. 126,249. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK GARFINKEL, New York, N. Y. Filed Dec. 19, 1919.

GARFILAX

Particular description of goods.—Laxative Candy.

Claims use since Nov. 15, 1909.

Ser. No. 126,267. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH J. BOONE, Mount Victory, Ohio. Filed Dec. 20, 1919.

LCBA

Particular description of goods.—Medicine Used in the Treatment of Colds, Grippe, Influenza, Headache.

Claims use since July 1, 1917.

Ser. No. 126,366. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. GAMBRILL MANUFACTURING COMPANY, Baltimore, Md. Filed Dec. 23, 1919.

1774 Gambrill Products

No claim being made to the word "Products" aside from the mark as shown.

Particular description of goods.—Cereal Products—Namely, Self-Rising Buckwheat Mixture, Self-Rising Pancake-Flour, and a Prepared Cake-Flour.

Claims use since Oct. 18, 1919.

Ser. No. 126,370. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

Grape Ola GINGER ALE

The words "Ginger Ale" apart from the mark shown on the drawing are disclaimed.

Particular description of goods.—Ginger-Ale.

Claims use since Aug. 1, 1916.

Ser. No. 126,372. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

G·O·P. Grape Juice

The words "Grape Juice" are disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Grape-Juice.

Claims use since Mar. 1, 1919.

Ser. No. 126,485. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Dec. 26, 1919.

Colonial

Particular description of goods.—Handkerchiefs.

Claims use since Dec. 10, 1919.

Ser. No. 126,507. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHINA, JAPAN & SOUTH AMERICA TRADING CO. LTD., San Francisco, Calif. Filed Dec. 27, 1919.

TIFFIN

Particular description of goods.—Canned Fruits—Namely, Canned Peaches and Canned Pears; Canned Vegetables—Namely, Canned Tomatoes.

Claims use since June 15, 1919.

Ser. No. 126,578. (CLASS 11. INKS AND INKING MATERIALS.) GOSSELIN TRADING CORPORATION, New York, N. Y. Filed Dec. 29, 1919.

GOSGO PRODUCTS

Disclaiming all right to the use of the word "Products."

Particular description of goods.—Ink in Tablet Form.

Claims use since the 1st day of May, 1919.

Ser. No. 126,606. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed Dec. 29, 1919.

JOLIET

Particular description of goods.—Jar-Rubbers.

Claims use since Jan. 1, 1917.

Ser. No. 126,636. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Dec. 30, 1919.

INTERNATIONAL DIAMOND DIARY FEED

No claim being made for the words "Dairy Feed" apart from the other features of the mark.

Particular description of goods.—Dairy-Feed.

Claims use since the 14th day of April, 1919.

Ser. No. 126,640. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LINK-BELT COMPANY, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Filed Dec. 30, 1919.

UNIROLL

No claim being made to the pictorial representation of the roll apart from the mark as shown by the drawing.

Particular description of goods.—Idlers and Rolls for Conveying Machinery.

Claims use since Dec. 12, 1919.

Ser. No. 126,698. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RENFREW MFG. CO., Adams, Mass. Filed Dec. 31, 1919.

RENFREW

No claim being made to the exclusive use of the words "Adams, Mass." apart from the mark shown in the drawing, the designs and lettering being shown in gilt upon a black band having a gilt border.

Particular description of goods.—Piece Goods—Namely, a Fabric Made with a Cotton Warp, Using a Filling of Cotton, Wool, Worsted, Mohair, Natural Silk, Artificial Silk, Linen, or Ramie, Singly or Combined, and Sometimes Silk in the Warp for the Purpose of Stripe Patterns.

Claims use since Jan. 9, 1906.

Ser. No. 126,708. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) AMERICAN LABORATORIES INCORPORATED, Richmond, Va. Filed Jan. 2, 1920.



No claim is made to the exclusive use of the word "Nectar" apart from the mark shown.

Particular description of goods.—Non-Alcoholic Maltless Non-Cereal Beverages Sold as Soft Drinks, Containing Less than One-Half of One Per Cent. of Alcohol by Volume, and Flavoring-Syrups Therefor.

Claims use since on or about Nov. 8, 1919.

Ser. No. 126,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES B. GOOKEN, Los Angeles, Calif. Filed Jan. 2, 1920.

SALV-ABSORBS

Particular description of goods.—Rectal Suppositories.

Claims use since Jan. 1, 1919.

Ser. No. 126,733. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LONE PRAIRIE REMEDIES CO., San Antonio, Tex. Filed Jan. 2, 1920.



Particular description of goods.—A Medicine for the Treatment of Tick-Fever in Animals.

Claims use since the 17th day of September, 1919.

Ser. No. 126,753. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) UNIVERSAL BEVERAGE COMPANY, St. Louis, Mo. Filed Jan. 2, 1920.

Booz

Particular description of goods.—A Carbonated Soda-Water.

Claims use since Nov. 23, 1919.

Ser. No. 126,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Jan. 3, 1920.

HEROTUSSIN

"Herotussin."

Particular description of goods.—Expectorant and Bronchial Sedative.

Claims use since Nov. 17, 1919.

Ser. No. 126,766. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Jan. 3, 1920.

ASALGEN

"Asalgen."

Particular description of goods.—Headache-Tablets, Pills, and Capsules.

Claims use since Dec. 5, 1919.

Ser. No. 126,772. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Jan. 3, 1920.

COMMUNITY

Particular description of goods.—Silver-Plated Flat-Ware and Silver-Plated Tableware.

Claims use since 1880.

Ser. No. 126,792. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES EUGENE EVANS, Manchester, Ga. Filed Jan. 5, 1920.

LAXINE

Particular description of goods.—A Medicinal Compound for the Liver.

Claims use since on or about Nov. 15, 1917.

Ser. No. 126,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FESLER & COMPANY, St. Louis, Mo. Filed Jan. 5, 1920.

Flu-ban

Particular description of goods.—Ointment and Tablets for Treatment of Colds, La Grippe, Influenza, and the Like.

Claims use since Sept. 15, 1919.

Ser. No. 126,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES D. CLINTON CO., Kingston, N. Y. Filed Jan. 6, 1920.

COOPER'S MARVELOUS PHROSTEEN

Consisting of the words "Cooper's Marvelous Phrosteen."

Particular description of goods.—A Lotion for Chapped Hands, Sunburn, Salt-Rheum, and Chafing.

Claims use since Oct. 1, 1888.

Ser. No. 126,868. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARDA NITA MARTIN, Baltimore, Md. Filed Jan. 6, 1920.

SALVANITA

Particular description of goods.—A Remedy for War-Wounds, Old Sores, Burns, and Abcesses.

Claims use since October, 1919.

Ser. No. 126,881. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANCIS GURNEY STEWART, Chicago, Ill. Filed Jan. 6, 1920.

HY-SHINE

Particular description of goods.—Polish for Aluminum.

Claims use since June 30, 1919.

Ser. No. 126,883. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANCIS GURNEY STEWART, Chicago, Ill. Filed Jan. 6, 1920.

HYLONITE

Particular description of goods.—Polish for Silver, Gold, and Nickel.

Claims use since Oct. 17, 1916.

Ser. No. 126,893. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN LABORATORIES INCORPORATED, Richmond, Va. Filed JAN. 7, 1920.



No claim is made for exclusive use of the words "Cough Syrup" apart from the mark shown.

Particular description of goods.—A Cough-Syrup preparation.

Claims use since Oct. 1, 1919.

Ser. No. 126,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES H. KLINE, Scranton, Pa. Filed Jan. 7, 1920.

Denthol

Particular description of goods.—A Tooth-Paste Used as a Cleanser of the Teeth of Man, Woman, or Child.

Claims use since July 1, 1919.

Ser. No. 126,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE M. SHARKEY, Fond du Lac, Wis. Filed Jan. 7, 1920.

EASZONE

Particular description of goods.—A Remedy for Piles.

Claims use since Oct. 26, 1919.

Ser. No. 126,911. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Jan. 7, 1920.

METAGOL

Particular description of goods.—Photographic Developers.

Claims use since December, 1918.

Ser. No. 126,915. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Jan. 7, 1920.

Mai D'or

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonics, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorizing Preparations, Brilliantines, and Sachet-Powders.

Claims use since Jan. 2, 1920.

Ser. No. 126,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Jan. 7, 1920.

VIVOMINT

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonics, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorizing Preparations, Brilliantines, and Sachet-Powder.
Claims use since Jan. 2, 1920.

Ser. No. 126,918. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARI ANDERSON, Creston, Wash. Filed Jan. 8, 1920.

Marizema

Particular description of goods.—A Salve for External Application for the Treatment of All Skin Diseases, Eczema, Itch, Ringworm, and Chilblains.
Claims use since Aug. 1, 1919.

Ser. No. 126,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. J. C. CUNNINGHAM, East Liverpool, Ohio. Filed Jan. 8, 1920.

HOME



Particular description of goods.—An Ointment for Use in the Treatment of Piles.
Claims use since Dec. 31, 1919.

Ser. No. 126,938. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERTHA A. LUDLOW, Caldwell, N. J. Filed Jan. 8, 1920.

"MAGIC"

Particular description of goods.—Dry Medicated Asthma and Bronchial Shields.
Claims use since Dec. 10, 1919.

Ser. No. 126,959. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STACY B. GANOW, New York, N. Y. Filed Jan. 9, 1920.

NO-D-K

Particular description of goods.—Mouth-Wash.
Claims use since Dec. 2, 1919.

Ser. No. 126,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAYLAWN FARMS COMPANY, Waterbury, Vt. Filed Jan. 9, 1920.

LOUSE-CHASE

The word "Louse-Chase."
Particular description of goods.—Insecticides.
Claims use since Oct. 23, 1919.

Ser. No. 127,033. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLEVELAND BRASS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 12, 1920.

CLELOCK

Particular description of goods.—Faucets, Manually-Operable Valves, and Cocks.
Claims use since about Dec. 9, 1919.

Ser. No. 127,069. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) UNITED SILK MILLS, Boston, Mass. Filed Jan. 12, 1920.

UNITED USM MILLS

Particular description of goods.—Broad Silks, Velvets; Plain, Fancy, and Printed Fiber Silks; Silk and Cotton and Cotton and Woolen Goods.
Claims use since Oct. 2, 1918.

Ser. No. 127,085. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) F. A. HARDY & COMPANY, Chicago, Ill. Filed Jan. 13, 1920.

HARCo LINEMAN'S BLANKET

No claim being made to the words "Lineman's Blanket" apart from the mark shown in the drawing.
Particular description of goods.—A Blanket of Insulating Material to be Used by Electrical Workers, Linemen, and Persons Similarly Employed.
Claims use since Nov. 4, 1919.

Ser. No. 127,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POMEROY AND COMPANY, Atlanta, Ga. Filed Jan. 13, 1920.

PURATONE

Particular description of goods.—A Medicine for the Treatment of Diseases of the Stomach, Liver, and Kidneys, Such as Indigestion, Dyspepsia, Acidity, Blood Disorders, Constipation, Auto-Intoxication, and Headaches.
Claims use since Dec. 1, 1919.

Ser. No. 127,103. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR ANTOINE, New York, N. Y. Filed Jan. 14, 1920.

ROYAL LOTUS

Particular description of goods.—Hair-Tonic.
Claims use since Jan. 1, 1920.

Ser. No. 127,110. (CLASS 39. CLOTHING.) BROWN & SINGERMAN, INC., New York, N. Y. Filed Jan. 14, 1920.

MADE OUR OWN

Particular description of goods.—Petticoats and Bloomers.
Claims use since Jan. 9, 1920.

Ser. No. 127,115. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CRESCENT PUMP COMPANY, Detroit, Mich. Filed Jan. 14, 1920.

CRESCENT

Particular description of goods.—Vacuum and Pressure Air-Pumps, Liquid-Pumps, and Blowers.
Claims use since Jan. 5, 1920.

Ser. No. 127,138. (CLASS 39. CLOTHING.) WALTER W. MOYER, Ephrata, Pa. Filed Jan. 14, 1920.

MOYERMAID

Particular description of goods.—Ladies' Vests and Ladies' Union-Suits All Made of Knitted Fabric.
Claims use since Dec. 30, 1919.

Ser. No. 127,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARM H. RUSTMAN, Flanagan, Ill. Filed Jan. 14, 1920.



Particular description of goods.—A Medicine for Use in the Treatment of Indigestion and Dyspepsia and as a Tonic for the Stomach.
Claims use since the 29th day of September, 1919.

Ser. No. 127,157. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUNBEAM CHEMICAL COMPANY, Chicago, Ill. Filed Jan. 14, 1920.

OZOL

Particular description of goods.—A Pharmaceutical Preparation for Use as a Germicide and Disinfectant.
Claims use since on or about Apr. 18, 1919.

Ser. No. 127,172. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE EQUITABLE CREAM SEPARATOR COMPANY, New York, N. Y. Filed Jan. 15, 1920.

Leader

Particular description of goods.—Cream-Separators.
Claims use since October, 1919.

Ser. No. 127,178. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS H. GLOECKLER, New York, N. Y. Filed Jan. 15, 1920.

DENTEX

Particular description of goods.—Toothache Remedies
Claims use since Jan. 2, 1920.

Ser. No. 127,216. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM R. JEFFERY, Boston, Mass. Filed Jan. 16, 1920.



Particular description of goods.—A Medicine Used in the Treatment of Gall-Stones and Gravel.
Claims use since on or about Dec. 1, 1919.

Ser. No. 127,218. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD M. LAAKMAN, Farmington, Mo. Filed Jan. 16, 1920.

LUXZEMA

Particular description of goods.—Preparations for the Treatment of Eczema and other Skin and Scalp Eruptions.
Claims use since about Oct. 1, 1913.

Ser. No. 127,228. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. D. ROPER CORPORATION, Rockford, Ill. Filed Jan. 16, 1920. Under ten-year proviso.

TRAHERN

Particular description of goods.—Various Types of Pumps Comprising Farm, Rotary, Well, Lubricating, and General Pumps.
Claims use since on or about the year 1857.

Ser. No. 127,266. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill. Filed Jan. 17, 1920.

Vaporeter

Particular description of goods.—Fuel-Feeding Systems for Internal-Combustion Engines.
Claims use since Jan. 7, 1920.

Ser. No. 127,273. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WOLKE LEAD BATTERIES CO., Louisville, Ky. Filed Jan. 17, 1920.

WOL-KEE Red Cap

Particular description of goods.—Storage Batteries.
Claims use since the 10th day of May, 1918.

Ser. No. 127,331. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JACOB RIES BOTTLING WORKS, INC., Shakopee, Minn. Filed Jan. 19, 1920.

Washtea

Particular description of goods.—Non-Alcoholic Maltless Non-Cereal Beverages.
Claims use since Dec. 24, 1919.

Ser. No. 127,333. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ROLLAWAY COMPANY, Toledo, Ohio. Filed Jan. 19, 1920.

Rollaway

Particular description of goods.—Internal-Combustion Motors.
Claims use since Dec. 1, 1919.

Ser. No. 127,362. (CLASS 39. CLOTHING.) FORD MANUFACTURING CO., Waterford, N. Y. Filed Jan. 20, 1920.



Particular description of goods.—Knitted Underwear, Both Two-Piece Garments and Union-Suits for Men and Children.
Claims use since Dec. 10, 1919.

Ser. No. 127,406. (CLASS 37. PAPER AND STATIONERY.) THE F. C. TRAVER PAPER CO., Chicago, Ill. Filed Jan. 20, 1920.



Particular description of goods.—Paper and Paper Products—Namely, Writing-Paper, Toilet-Paper, Waxed Paper, Crape-Paper, Tissue-Paper, and Paper Napkins.
Claims use since January, 1914.

Ser. No. 127,430. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KELSEY TEXTILE CORPORATION, New York, N. Y. Filed Jan. 21, 1920.



The lines therein indicating shading only, no claim being made to the exclusive use of the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1916.

Ser. No. 127,466. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRIGHT STAR BATTERY COMPANY, New York, N. Y. Filed Jan. 22, 1920.



Particular description of goods.—Electric Batteries, Electric Flash-Lights, and Flash-Light Cases.
Claims use since October 5, 1916.

Ser. No. 127,494. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE BALDWIN COMPANY, Cincinnati, Ohio. Filed Jan. 23, 1920.

MEDALLION

Particular description of goods.—Phonographs.
Claims use since June 25, 1919.

Ser. No. 127,499. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHATILLON, MOULY, ROUSSEL & CO., Lyon, France. Filed Jan. 23, 1920.



No claim is made to the words "Lyon—Paris—Nice—Londres—New York" apart from the mark shown on the drawing.
Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and other Textile Fabrics.
Claims use since Dec. 3, 1919.

Ser. No. 127,620. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.



Tiny-tot

Particular description of goods.—Toilet Sets Containing Puff, Comb, Brush, Powder-Box, Nail-File, and Scissors Mounted in or Plated with Precious Metal.
Claims use since December, 1919.

Ser. No. 127,710. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN TRACTOR CORPORATION, Peoria, Ill. Filed Jan. 29, 1920.



Particular description of goods.—Tractors.
Claims use since the 1st day of April, A. D., 1918.

Ser. No. 127,722. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) C. KENYON COMPANY, Brooklyn, N. Y. Filed Jan. 29, 1920.

Kenyon Cord

No claim being made to the word "Cord" apart from the mark shown in the drawing.

Particular description of goods.—Rubber Tires and Tubes.

Claims use since Jan. 27, 1920.

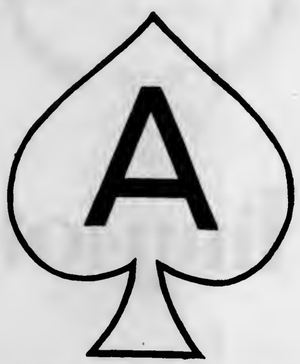
Ser. No. 127,746. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WHEELER VARNISH WORKS, Chicago, Ill. Filed Jan. 29, 1920.

WEATHERALL

Particular description of goods.—House Paint and Varnish.

Claims use since Aug. 17, 1917.

Ser. No. 127,750. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Jan. 30, 1920.



Particular description of goods.—Battery Jars, Covers, and Vents, Plate-Separators, Magneto Parts, Insulations, and Parts for Electrical Appliances, All Made of Hard Rubber.

Claims use since Jan. 21, 1920.

Ser. No. 127,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROYALL COFFEE COMPANY, Corsicana, Tex. Filed Jan. 30, 1920.



Particular description of goods.—Coffee and Tea.

Claims use since 1900.

Ser. No. 127,800. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DRURY ENGINEERING COMPANY, Evansville, Ind. Filed Jan. 31, 1920.



No claim being made to the words "Slow Speed" apart from the mark shown.

Particular description of goods.—Electric-Lighting Plants for Farms.

Claims use since January, 1918.

Ser. No. 127,833. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PIANO MOTORS CORPORATION, Camden, N. J. Filed Jan. 31, 1920.

MOTORA

Particular description of goods.—Electrically-Operated Vacuum-Creating Apparatus for Piano-Players.

Claims use since July 1, 1919.

Ser. No. 127,958. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLOVER LEAF MANUFACTURING COMPANY, Carbondale, Pa. Filed Feb. 4, 1920.

CLOVER LEAF

Particular description of goods.—Bobbins, Reel-Arms, Bobbin-Pin Boards, Fiber Combs and Lacing-Rings, and Combination Reel-Cups for Use in Textile Manufacturing Establishments, Such as Silk-Mills.

Claims use since Feb. 14, 1899.

Ser. No. 127,960. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WARREN R. COX, Cleveland, Ohio. Filed Feb. 4, 1920.



Particular description of goods.—Combined Locks and Electric Switches and Electric-Switch-Operating Elements for Use in Automobile and other Electric Ignition-Circuits.

Claims use since Aug. 8, 1918.

Ser. No. 127,961. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WARREN R. COX, Cleveland, Ohio. Filed Feb. 4, 1920.

C
MOTOLOK
X

Particular description of goods.—Combined Locks and Electric Switches and Electric-Switch-Operating Elements for Use in Automobile and other Electric Ignition-Circuits.

Claims use since Aug. 8, 1918.

Ser. No. 127,985. (CLASS 37. PAPER AND STATIONERY.) WHITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 4, 1920.

LAUREL

Particular description of goods.—Bristol-Board.

Claims use since on or about January, 1895.

Ser. No. 127,986. (CLASS 37. PAPER AND STATIONERY.) WHITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 4, 1920.

LOIS

Particular description of goods.—Writing-Paper and Mailing-Envelops.

Claims use since the year 1908.

Ser. No. 128,206. (CLASS 37. PAPER AND STATIONERY.) THE A. S. GILMAN PRINTING COMPANY, Cleveland, Ohio. Filed Feb. 10, 1920.

SUPERFOLD

Particular description of goods.—Blank Forms to Which other Matter May be Added—Namely, Letter-Forms, Order-Blanks, Receipts, Expense-Bills, Freight-Bills, Arrival-Notices, Way-Bills, Memoranda, Freight-Notices, Shop-Orders, Delivery-Blanks, Express-Receipts, Bills of Lading, and Invoices.

Claims use since Oct. 5, 1919.

Ser. No. 128,290. (CLASS 39. CLOTHING.) AMERICAN-NATIONAL SHOE & LEATHER CORP., New York, N. Y. Filed Feb. 12, 1920.

AMICUS

The word "Amicus."

Particular description of goods.—Rubber Boots and Shoes and Boots and Shoes Made Wholly or in Part of Leather.

Claims use since Jan. 9, 1920.

Ser. No. 128,335. (CLASS 37. PAPER AND STATIONERY.) THE WYNNE PAPER CO., New York, N. Y. Filed Feb. 12, 1920.



Particular description of goods.—Writing-Tablets, Writing-Papers, and Correspondence-Envelops.

Claims use since Jan. 2, 1920.

Ser. No. 128,352. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed Feb. 13, 1920.

FAIRWAY

Particular description of goods.—Dresses, Suits, Waists, Petticoats, Brassières, Corset-Covers, Corset-Waists, Union-Suits, Combinations, Nightgowns, Bloomers, Chemise, Trimmed Hats, Children's Hats, Suits, Rompers, Men's Silk Shirts, Pajamas, and Nightgowns.

Claims use since July, 1918.

Ser. No. 128,377. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed Feb. 13, 1920.

STEDY-LITE

Particular description of goods.—Dry-Cell Batteries.

Claims use since Dec. 30, 1919.

Ser. No. 128,406. (CLASS 11. INKS AND INKING MATERIALS.) CROWN RIBBON AND CARBON MFG CO., Rochester, N. Y. Filed Feb. 14, 1920.



Applicant disclaims exclusive use of the word "Brand" apart from the mark shown.

Particular description of goods.—Carbon-Paper and Typewriter-Ribbons.

Claims use since July 20, 1901.

Ser. No. 128,407. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 14, 1920.

Polly Prim

Particular description of goods.—Dresses and Middy-Blouses.
Claims use since Feb. 5, 1920.

Ser. No. 128,409. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEGGERMAN BROS. INC., New York, N. Y. Filed Feb. 14, 1920.

SEGBRO

Particular description of goods.—Dried Fruits Consisting of Apples, Apricots, Pears, Peaches, Prunes, and Raisins Packed in Boxes and Barrels.
Claims use since Aug. 1, 1915.

Ser. No. 128,410. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEGGERMAN BROS. INC., New York, N. Y. Filed Feb. 14, 1920.

SEGBRO

Particular description of goods.—Chocolate Packed in Boxes and Packages.
Claims use since Aug. 1, 1915.

Ser. No. 128,438. (CLASS 39. CLOTHING.) HODSHON HAT CO., Newark, Paterson, Passaic, New Brunswick, N. J., and Wheeling, W. Va. Filed Feb. 16, 1920.

TREAT

Particular description of goods.—Men's Hats.
Claims use since December, 1919.

Ser. No. 128,458. (CLASS 39. CLOTHING.) MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y. Filed Feb. 16, 1920.

"BLUE BELL"

Particular description of goods.—Wool Gloves.
Claims use since May, 1919.

Ser. No. 128,460. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. M. PAIST COMPANY, Philadelphia, Pa. Filed Feb. 16, 1920.

ZEE ZEE

Particular description of goods.—Nut-Caramels.
Claims use since November, 1912.

Ser. No. 128,492. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

DEFIANCE

Particular description of goods.—Battery-Jars Made of Hard or Semihard Rubber or Having Rubber Incorporated Therein.
Claims use since about February, 1917.

Ser. No. 128,494. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

G

Particular description of goods.—Battery-Jars Made of Hard or Semihard Rubber or Having Rubber Incorporated Therein.
Claims use since about February, 1917.

Ser. No. 128,495. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

DEFIANCE G

Particular description of goods.—Battery-Jars Made of Hard or Semihard Rubber or Having Rubber Incorporated Therein.
Claims use since about February, 1917.

Ser. No. 128,531. (CLASS 39. CLOTHING.) WILLIAM BENJAMIN SEIDEL, Reading, Pa. Filed Feb. 17, 1920.

PATRICIAN

Consisting of the word "Patrician."
Particular description of goods.—Hosiery for Men and Women.
Claims use since Dec. 1, 1919.

Ser. No. 128,544. (CLASS 39. CLOTHING.) CROWN EMBROIDERY WORKS, New York, N. Y. Filed Feb. 18, 1920.

Yvonne

Consisting of the word "Yvonne."
Particular description of goods.—Ladies' and Misses' Dresses in One and Two Piece Garments.
Claims use since Feb. 2, 1920.

Ser. No. 128,562. (CLASS 39. CLOTHING.) ROSENBERG BROS. & CO., Rochester, N. Y. Filed Feb. 18, 1920.

SUN-SHI

Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.
Claims use since on or about the 1st day of December, 1919.

Ser. No. 128,563. (CLASS 39. CLOTHING.) ROSENBERG BROS. & CO., Rochester, N. Y. Filed Feb. 18, 1920.

TUROLE

Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.
Claims use since on or about the 1st day of December, 1919.

Ser. No. 128,605. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LUTHY STORAGE BATTERY COMPANY, Newark, N. J. Filed Feb. 19, 1920.

LUTHY

A combined triangle and rectangle intersecting one another and containing the name "Luthy" in the distinctive manner illustrated on the accompanying drawing.
Particular description of goods.—Storage Batteries.
Claims use since Jan. 13, 1919.

Ser. No. 128,678. (CLASS 37. PAPER AND STATIONERY.) GENERAL PAPER AND CORDAGE COMPANY, Pittsburgh, Pa. Filed Feb. 20, 1920.

YARDMOER

Particular description of goods.—Wrapping-Paper.
Claims use since Feb. 10, 1920.

Ser. No. 128,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed Feb. 20, 1920.



Rowena

Particular description of goods.—Candy.
Claims use since Dec. 29, 1919.

Ser. No. 128,841. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Feb. 24, 1920.

ROBLES BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits—Namely, Cherries, Apricots, Peaches, Pears, Plums.
Claims use since Aug. 21, 1919.

Ser. No. 128,942. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) REPUBLIC IRON & STEEL COMPANY, Youngstown, Ohio. Filed Feb. 26, 1920.



No claim is made to the words "Trade Mark" and "Youngstown, Ohio, U. S. A." apart from the mark shown in the drawing.

Particular description of goods.—Steel Sheets and Iron Sheets.

Claims use since on or about the 4th day of February, 1920.

Ser. No. 128,988. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 28, 1920.

COVENANT BOND

No claim being made for the word "Bond" apart from the mark shown in the drawing.

Particular description of goods.—Writing and Printing Paper.

Claims use since Dec. 30, 1919.

Ser. No. 128,989. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 28, 1920.

EXHIBIT BOND

No claim being made for the word "Bond" apart from the mark shown in the drawing.

Particular description of goods.—Writing and Printing Paper.

Claims use since Dec. 30, 1919.

Ser. No. 128,990. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 28, 1920.

TEXO BOND

No claim being made for the word "Bond" apart from the mark shown in the drawing.

Particular description of goods.—Writing and Printing Paper.

Claims use since Dec. 30, 1919.

Ser. No. 129,061. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE E. C. HARLEY COMPANY, Dayton, Ohio. Filed Mar. 1, 1920.

DURAMIC

Particular description of goods.—House and Barn Paints.

Claims use since Feb. 16, 1920.

Ser. No. 129,071. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MCCOMB BROTHERS, Scarsdale, N. Y. Filed Mar. 1, 1920.

PAGODA

Particular description of goods.—A Liquid Furniture-Polish.

Claims use since Dec. 1, 1919.

Ser. No. 129,133. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920.

ORNOLACK

Particular description of goods.—Paint for Iron and Steel.

Claims use since 1914.

Ser. No. 129,137. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920.

Galvanum

Particular description of goods.—Paint for Galvanized Iron.

Claims use since the 12th day of August, 1898.

Ser. No. 129,138. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920. Under ten-year proviso.

HIGHWAY RED

Particular description of goods.—Red-Lead Paint.

Claims use since 1890.

Ser. No. 129,139. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920.

CONCREWALTUM

Particular description of goods.—Paint for Concrete, Cement, Brick, Tile, Stucco, and Plaster.

Claims use since 1894.

Ser. No. 129,142. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920. Under ten-year proviso.

ASBESTOS ORE

Particular description of goods.—Fireproof Paint for Wood.

Claims use since 1890.

Ser. No. 129,160. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VAN CAMP HARDWARE & IRON COMPANY, Indianapolis, Ind. Filed Mar. 2, 1920.

Vanco

Particular description of goods.—Assorted Colors in Oil for Paints for All Kinds of Inside and Outside Work and for Roof-Coatings.

Claims use since Jan. 1, 1914.

Ser. No. 129,162. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ACME SHEAR COMPANY, Bridgeport, Conn. Filed Mar. 3, 1920.

SILVER STAR

Particular description of goods.—Scissors and Shears.

Claims use since on or about Feb. 19, 1920.

Ser. No. 129,163. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ACME SHEAR COMPANY, Bridgeport, Conn. Filed Mar. 3, 1920.

BROWN CUB

Particular description of goods.—Scissors and Shears.

Claims use since on or about the 10th of February, 1920.

Ser. No. 129,329. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JACOB J. LOWE, Boston, Mass. Filed Mar. 6, 1920.

Foot-O-scope

Particular description of goods.—An X-Ray Apparatus for Determining the Fit of Footwear.

Claims use since Feb. 6, 1919.

Ser. No. 129,369. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) G. K. BAINBRIDGE, Ripon, Calif. Filed Mar. 8, 1920.

CUT-ROL

Particular description of goods.—Candy-Making Machinery and Parts Thereof.

Claims use since July 1, 1919.

Ser. No. 129,372. (CLASS 37. PAPER AND STATIONERY.) BROWN COMPANY, Portland, Me. Filed Mar. 8, 1920.

NIBROC

Particular description of goods.—Paper Products and Particularly Bond or other Writing or Print Paper.

Claims use since 1912.

Ser. No. 129,430. (CLASS 37. PAPER AND STATIONERY.) FRED C. STRYPE, New York, N. Y. Filed Mar. 8, 1920.



Particular description of goods.—Wrapping and Printing Papers.

Claims use since Jan. 21, 1920.

Ser. No. 129,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed Mar. 8, 1920.

OLD HOME

The words "Old Home."

Particular description of goods.—Wheat-Flour.

Claims use since Oct. 4, 1902.

Ser. No. 129,473. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITY OATS COMPANY, Keokuk and Davenport, Iowa. Filed Mar. 9, 1920.



Particular description of goods.—Scratch Feed, Horse Feed, Poultry-Mash, Pigeon Feed, Hog Feed, Chick Feed, Dairy Feed, Cattle Feed.
Claims use since November, 1919.

Ser. No. 129,483. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBANY GROCERY CO., Albany, Ga. Filed Mar. 10, 1920.

HONEYSUCKLE

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since Feb. 16, 1920.

Ser. No. 129,566. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NORTHERN OHIO BUTTERINE COMPANY, Ashland, Ohio. Filed Mar. 11, 1920.

CHURN-MAID

Particular description of goods.—Oleomargarin.
Claims use since Jan. 11, 1920.

Ser. No. 129,614. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed Mar. 12, 1920.

Hendrick Hudson

The words "Hendrick Hudson."
Particular description of goods.—Wheat-Flour.
Claims use since Apr. 15, 1901.

Ser. No. 129,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMIL BRAUN, New York, N. Y. Filed Mar. 13, 1920.

ATMOR

Particular description of goods.—Doughnuts and Cakes.
Claims use since Feb. 1, 1914.

Ser. No. 129,647. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA FLOUR MILLS CO., Omaha, Nebr. Filed Mar. 13, 1920.

HALO

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 21, 1919.

Ser. No. 129,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA FLOUR MILLS CO., Omaha, Nebr. Filed Mar. 13, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Aug. 11, 1919.

Ser. No. 129,681. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY INC., New York, N. Y. Filed Mar. 13, 1920.

GAVEL

Particular description of goods.—Wheat and Rye Flour.
Claims use since Aug. 15, 1919.

Ser. No. 129,682. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY INC., New York, N. Y. Filed Mar. 13, 1920.

SALVO

Particular description of goods.—Wheat and Rye Flour.
Claims use since Aug. 15, 1919.

Ser. No. 129,684. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY INC., New York, N. Y. Filed Mar. 13, 1920.

RECRUIT

Particular description of goods.—Wheat and Rye Flour.
Claims use since Aug. 15, 1919.

Ser. No. 129,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY INC., New York, N. Y. Filed Mar. 13, 1920.

PIVOT

Particular description of goods.—Wheat and Rye Flour.
Claims use since Aug. 15, 1919.

Ser. No. 129,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIETETIC CELLULOSE COMPANY, Chicago, Ill. Filed Mar. 15, 1920.

CELLU

Particular description of goods.—Flours and Meals Employed for Making Dietetic Foods.
Claims use since Apr. 1, 1919.

Ser. No. 129,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FISHBACK CO., Indianapolis, Ind. Filed Mar. 15, 1920.

VIRGINIA SWEET

Particular description of goods.—Pancake-Flour and Maple-Syrup Used for Food Purposes.
Claims use since Nov. 13, 1919.

Ser. No. 129,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANLEY H. FREIHOFER, Atlantic City, N. J. Filed Mar. 15, 1920.

Betterbred

Particular description of goods.—Bread.
Claims use since on or about Mar. 4, 1920.

TRADE-MARK REGISTRATIONS GRANTED

APRIL 27, 1920.

130,451. INFANTS' WEAR—VIZ., HOSIERY, UNDERWEAR, FLAT AND KNIT, AND WRAPPERS. AARON AND HALL, New York, N. Y.
Filed May 29, 1919. Serial No. 119,012. PUBLISHED DECEMBER 9, 1919.

130,452. AUTOMOBILE PLEASURE-CARS, AUTOMOBILE BUSINESS-CARS, AND MOTOR-TRUCKS. ABBOTT CORPORATION, Detroit, Mich.
Filed March 31, 1917. Serial No. 102,607. PUBLISHED JANUARY 20, 1920.

130,453. MEN'S, WOMEN'S, AND CHILDREN'S PROCESSED-LEATHER SHOE-SOLES, BOOT-SOLES, BOOTS, AND SHOES. ADWEAR PROCESS SOLE LEATHER MACHINE COMPANY, Philadelphia, Pa.
Filed July 26, 1919. Serial No. 120,947. PUBLISHED JANUARY 20, 1920.

130,454. COMBINATION AUTOMOBILE-TOOL, SHOVEL, AND INCLINE OR LADDER. ALSTEEL MANUFACTURING CO., Battle Creek, Mich.
Filed September 16, 1919. Serial No. 122,754. PUBLISHED JANUARY 6, 1920.

130,455. CANNED SALMON. AMERICAN FACTORS, LIMITED, Honolulu, Territory of Hawaii.
Filed June 10, 1919. Serial No. 119,380. PUBLISHED FEBRUARY 3, 1920.

130,456. HELICAL WIRE DOOR-SPRINGS. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Hoboken, N. J.
Filed July 26, 1917. Serial No. 105,283. PUBLISHED NOVEMBER 25, 1919.

130,457. OVAL FENCE-WIRE AND WIRE FENCING. AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed May 10, 1919. Serial No. 118,341. PUBLISHED JANUARY 6, 1920.

130,458. DRILL-STEEL AND TOOL-STEEL. ANDERSEN, MEYER & CO., LIMITED, New York, N. Y., and Shanghai, China.
Filed April 26, 1919. Serial No. 117,863. PUBLISHED DECEMBER 9, 1919.

130,459. LUBRICATING COMPOUND. AREA MANUFACTURING CO., Chicago, Ill., assignor to Famous Sales Company, Chicago, Ill., a Copartnership composed of Vaughn W. Hapeman and Arthur H. Landon.
Filed January 22, 1917. Serial No. 100,790. PUBLISHED MARCH 20, 1917.

130,460. LATHES AND METAL-WORKING GRINDERS. AXELSON MACHINE CO., Los Angeles, Calif.
Filed May 13, 1919. Serial No. 118,456. PUBLISHED JANUARY 6, 1920.

130,461. PATENT-LEATHER AND FINISHED CALF-SKINS. BARNET LEATHER COMPANY, New York, N. Y.
Filed April 29, 1919. Serial No. 117,966. PUBLISHED JANUARY 20, 1920.

130,462. LADIES', MISSES', MEN'S, AND BOYS' SILK, WOOLEN, AND COTTON SWEATERS. BEE ESS KNITTING MILLS, INC., New York, N. Y.
Filed August 21, 1919. Serial No. 121,857. PUBLISHED JANUARY 6, 1920.

130,463. CORSETS, BRASSIÈRES, AND WOMEN'S UNDERWEAR OF KNITTED OR TEXTILE FABRIC. BENJAMIN & JOHNES, Newark, N. J.
Filed June 8, 1918. Serial No. 111,427. PUBLISHED FEBRUARY 3, 1920.

130,464. ROSIN. BOGALUSA TURPENTINE COMPANY, Bogalusa, La.
Filed June 17, 1918. Serial No. 111,606. PUBLISHED NOVEMBER 18, 1919.

130,465. DOLLS AND TABLE-FAVORS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed April 10, 1919. Serial No. 117,316. PUBLISHED JULY 29, 1919.

130,466. SPARK-PLUGS FOR INTERNAL-COMBUSTION ENGINES. ERIC W. BRANDQUIST, New York, N. Y.
Filed September 6, 1919. Serial No. 122,385. PUBLISHED JANUARY 6, 1920.

130,467. CONDENSED MILK. BREAKSTONE BROS. INC., Walton and New York, N. Y.
Filed October 10, 1919. Serial No. 123,606. PUBLISHED FEBRUARY 3, 1920.

130,468. CERTAIN NAMED PRODUCTS OF COPPER, BRASS AND BRONZE. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn.
Filed May 10, 1919. Serial No. 118,344. PUBLISHED NOVEMBER 25, 1919.

130,469. CERTAIN NAMED CONSTRUCTION MATERIALS. THE BROCKWAY-SMITH CORPORATION, Boston, Mass.
Filed September 5, 1919. Serial No. 122,328. PUBLISHED DECEMBER 2, 1919.

130,470. BINOCULARS, FIELD-GLASSES, OPERA-GLASSES, TELESCOPES, MICROSCOPES, TRANSITS, RANGE-FINDERS, PERISCOPIC LENSES, CHROMASCOPES, STEREOSCOPES, AND SPECTROSCOPES. CALIFORNIA OPTICAL COMPANY, San Francisco, Calif.
Filed August 20, 1919. Serial No. 121,831. PUBLISHED DECEMBER 30, 1919.

130,471. PASSENGER-AUTOMOBILES AND MOTOR-TRUCKS. CAMDEN MOTORS CORPORATION, Camden, N. J.
Filed December 30, 1918. Serial No. 114,877. PUBLISHED DECEMBER 2, 1919.

130,472. CANDY. CARDINET CANDY CO., Oakland, Calif.
Filed September 18, 1919. Serial No. 122,824. PUBLISHED DECEMBER 9, 1919.

130,473. FARINA, PEARL-BARLEY, YELLOW CORNMEAL, WHITE CORNMEAL, HOMINY-GRITS, PEARL-HOMINY, AND OATMEAL. F. B. CHAMBERLAIN COMPANY, St. Louis, Mo.
Filed October 1, 1919. Serial No. 123,304. PUBLISHED JANUARY 27, 1920.

130,474. CERTAIN NAMED FOODS. CHERI, INC., Philadelphia, Pa.
Filed October 25, 1919. Serial No. 124,169. PUBLISHED JANUARY 27, 1920.

130,475. CHEWING-GUM. COINGUM MANUFACTURING COMPANY, Philadelphia, Pa.
Filed October 17, 1919. Serial No. 123,875. PUBLISHED FEBRUARY 3, 1920.

130,476. GLASS FIRE-EXTINGUISHERS. COLEMAN BARDOS, Jr., New York, N. Y.
Filed May 10, 1919. Serial No. 118,345. PUBLISHED DECEMBER 9, 1919.

130,477. MOTOR-TRUCKS. THE COMMERCE MOTOR CAR COMPANY, Detroit, Mich.
Filed March 7, 1918. Serial No. 109,427. PUBLISHED AUGUST 5, 1919.

130,478. CABOTS, THE SAME BEING UNBLEACHED COTTON SHEETINGS. COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y.
Filed December 17, 1919. Serial No. 126,173. PUBLISHED FEBRUARY 3, 1920.

130,479. CERTAIN NAMED PLUMBING FIXTURES AND SUPPLIES. COMPOUND INJECTOR & SPECIALTY CO., Chicago, Ill.
Filed June 29, 1917. Serial No. 104,743. PUBLISHED DECEMBER 2, 1919.

130,480. CORN-STARCH. CORN PRODUCTS REFINING CO., New York, N. Y.
Filed October 4, 1919. Serial No. 123,422. PUBLISHED FEBRUARY 3, 1920.

130,481. GOLF-BAGS (CANVAS AND LEATHER) AND TENNIS-RACKET COVERS. DAFOE-EUSTICE COMPANY, Detroit, Mich.
Filed June 16, 1919. Serial No. 119,643. PUBLISHED DECEMBER 9, 1919.

130,482. WOMEN'S LEATHER SHOES. H. E. DAVIS CO., Freeport, Me.
Filed January 17, 1919. Serial No. 115,244. PUBLISHED FEBRUARY 3, 1920.

130,483. ORE-CONCENTRATORS. THE DEISTER CONCENTRATOR COMPANY, Fort Wayne, Ind.
Filed November 11, 1918. Serial No. 114,130. PUBLISHED DECEMBER 30, 1919.

130,484. SAWS. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa.
Filed August 29, 1919. Serial No. 122,113. PUBLISHED NOVEMBER 25, 1919.

130,485. WHEAT-FLOUR. DONMEYER, GARDNER CO., Peoria, Ill.
Filed November 11, 1919. Serial No. 124,749. PUBLISHED FEBRUARY 3, 1920.

130,486. MOTION-PICTURE FILMS. DRAMAFILMS, New York, N. Y.
Filed January 25, 1919. Serial No. 115,420. PUBLISHED DECEMBER 2, 1919.

130,487. HOLLOW BALANCED BALLS OF BRASS OR OTHER METAL. DRAPER MANUFACTURING COMPANY, Port Huron, Mich.
Filed August 18, 1919. Serial No. 121,760. PUBLISHED JANUARY 6, 1920.

130,488. GAMES. GEORGE C. DUTTON, Boston, Mass.
Filed April 14, 1919. Serial No. 117,446. PUBLISHED JANUARY 20, 1920.

130,489. CERTAIN NAMED KNIVES. DWIGHT DIVINE & SONS, Ellenville, N. Y.
Filed June 12, 1919. Serial No. 119,501. PUBLISHED JANUARY 6, 1920.

130,490. CERTAIN NAMED KNIVES. DWIGHT DIVINE & SONS, Ellenville, N. Y.
Filed June 12, 1919. Serial No. 119,502. PUBLISHED JANUARY 6, 1920.

130,491. DEMAGNETIZING APPARATUS OR DEVICES. THE ELECTRIC BRAZING AND WELDING MACHINE CO. INC., New York, N. Y.
Filed July 29, 1919. Serial No. 121,040. PUBLISHED OCTOBER 28, 1919.

130,492. SKEES. ELLINGWOOD TURNING CO., West Paris, Me.
Filed June 28, 1919. Serial No. 120,048. PUBLISHED NOVEMBER 25, 1919.

130,493. PUMPS USED IN DISPENSING LIQUID FROM CONTAINERS. F. A. B. MANUFACTURING CO., Oakland and San Francisco, Calif.
Filed April 23, 1919. Serial No. 117,776. PUBLISHED DECEMBER 9, 1919.

130,494. CHEESE. WILLIAM FAEHNDRICH, New York, N. Y.
Filed September 18, 1919. Serial No. 122,828. PUBLISHED JANUARY 6, 1920.

130,495. ENGINE STOP MECHANISM. FALLS MACHINE COMPANY, Sheboygan Falls, Wis., assignor to Falls Motors Corporation, Sheboygan Falls, Wis., a Corporation of Virginia.
Filed August 30, 1916. Serial No. 97,705. PUBLISHED NOVEMBER 6, 1917.

130,496. ELECTRICAL WIRE FUSES. J. H. FAW, INC., New York, N. Y.
Filed September 20, 1919. Serial No. 122,938. PUBLISHED JANUARY 6, 1920.

130,497. COTTON GOODS—NAMELY, COTTON SHEETING. FEARING, WHITON & CO., INC., Boston, Mass.
Filed October 6, 1919. Serial No. 123,478. PUBLISHED JANUARY 13, 1920.

130,498. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS. MEDORA A. FEEHAN, Haverhill, Mass.
Filed May 21, 1919. Serial No. 118,756. PUBLISHED JANUARY 6, 1920.

130,499. HORSESHOE-NAILS AND MOLDERS' NAILS. THE FOWLER NAIL CO., Seymour, Conn.
Filed May 7, 1919. Serial No. 118,223. PUBLISHED DECEMBER 2, 1919.

130,500. FISHING-REELS. HARRIS FROM, Brooklyn, N. Y.
Filed June 7, 1919. Serial No. 119,299. PUBLISHED NOVEMBER 4, 1919.

130,501. CANNED VEGETABLES. GIBBS PRESERVING CO., Baltimore, Md.
Filed September 23, 1919. Serial No. 123,024. PUBLISHED FEBRUARY 3, 1920.

130,502. SHOE-LACINGS, CORSET-LACINGS, UNDERWEAR-LACINGS, BLOUSE-LACINGS, GALLOONS, AND BRAIDS. GLENCAIRN MFG. CO., Pawtucket, R. I.
Filed July 17, 1919. Serial No. 120,642. PUBLISHED DECEMBER 2, 1919.

130,503. MEN'S AND CHILDREN'S HATS AND CAPS. GOORIN, SHAPIRA & COMPANY, Pittsburgh, Pa.
Filed June 20, 1919. Serial No. 119,799. PUBLISHED DECEMBER 30, 1919.

130,504. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,638. PUBLISHED JANUARY 27, 1920.

130,505. BABBITT BEARING METAL. GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill.
Filed May 14, 1919. Serial No. 118,471. PUBLISHED DECEMBER 30, 1919.

130,506. BOOTS AND SHOES OF LEATHER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. GRIGGS-PAXTON SHOE CO., INC., Roanoke, Va.
Filed September 19, 1919. Serial No. 122,889. PUBLISHED JANUARY 20, 1920.

130,507. INTERNAL-COMBUSTION ENGINES. GULOWSEN CREI ENGINE CO., Seattle, Wash.
Filed September 24, 1918. Serial No. 113,327. PUBLISHED DECEMBER 30, 1919.

130,508. RAINCOATS OF RUBBERIZED AND OTHERWISE WATERPROOFED MATERIAL. JAMES HARBERT, Polson, Mont.
Filed June 8, 1918. Serial No. 111,500. PUBLISHED JANUARY 13, 1920.

130,509. CANNED PINEAPPLES. HAWAIIAN PINEAPPLE COMPANY, LIMITED, Honolulu and Iwilei, Territory of Hawaii.
Filed September 19, 1919. Serial No. 122,892. PUBLISHED JANUARY 6, 1920.

130,510. CANNED PINEAPPLES. HAWAIIAN PINEAPPLE COMPANY, LIMITED, Iwilei and Honolulu, Territory of Hawaii.
Filed September 19, 1919. Serial No. 122,893. PUBLISHED DECEMBER 9, 1919.

130,511. WRENCHES, SCREW-DRIVERS, AND HAMMERS. THE HERBRAND CO., Fremont, Ohio.
Filed August 7, 1918. Serial No. 112,607. PUBLISHED DECEMBER 30, 1919.

130,512. SELF-RISING WHEAT-FLOUR. HEZEL MILLING COMPANY, East St. Louis, Ill.
Filed November 15, 1919. Serial No. 124,933. PUBLISHED FEBRUARY 3, 1920.

130,513. SELF-RISING WHEAT-FLOUR. HEZEL MILLING COMPANY, East St. Louis, Ill.
Filed November 15, 1919. Serial No. 124,934. PUBLISHED FEBRUARY 3, 1920.

130,514. CANDY. JOHN H. HINCK, Brooklyn, N. Y.
Filed October 28, 1919. Serial No. 124,268. PUBLISHED FEBRUARY 3, 1920.

130,515. CERTAIN NAMED CLOTHING FOR INFANTS. HOB MANUFACTURING CO., New York, N. Y.
Filed September 4, 1919. Serial No. 122,302. PUBLISHED JANUARY 13, 1920.

130,516. THISTLE-PULLING MACHINES. HERMAN F. HOEHNE, Kaukauna, Wis.
Filed May 13, 1919. Serial No. 118,438. PUBLISHED DECEMBER 9, 1919.

130,517. NARROW BELTS AND NARROW BINDINGS FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING, AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,334. PUBLISHED DECEMBER 9, 1919.

130,518. NARROW BELTS AND NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING, AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,338. PUBLISHED DECEMBER 9, 1919.

130,519. NARROW BELTS AND NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING, AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,339. PUBLISHED DECEMBER 9, 1919.

130,520. NARROW BELTS AND NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING, AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,340. PUBLISHED DECEMBER 9, 1919.

130,521. NARROW BELTS AND NARROW BINDING FOR GARMENTS, BELTS FOR SUPPORTING GARMENTS, TEXTILE BRAIDING, AND TAPE. HOPE WEBBING COMPANY, Pawtucket, R. I.
Filed April 10, 1919. Serial No. 117,341. PUBLISHED DECEMBER 9, 1919.

130,522. TOY AEROPLANES. JOSEPH O. HOWARD, Evanston, Ill.
Filed August 11, 1919. Serial No. 121,529. PUBLISHED NOVEMBER 25, 1919.

130,523. BOYS' SUITS AND OVERCOATS. IMPERIAL GARMENT CO. INC., New York, N. Y.
Filed April 12, 1919. Serial No. 117,405. PUBLISHED DECEMBER 9, 1919.

130,524. CERTAIN NAMED MEAT PRODUCTS. INDIAN PACKING COMPANY, Green Bay, Wis., assignor to Indian Packing Corporation, Chicago, Ill., a Corporation of Delaware.
Filed March 7, 1919. Serial No. 116,382. PUBLISHED DECEMBER 2, 1919.

130,525. CERTAIN NAMED MEAT PRODUCTS. INDIAN PACKING COMPANY, Green Bay, Wis., assignor to Indian Packing Corporation, Chicago, Ill., a Corporation of Delaware.
Filed March 7, 1919. Serial No. 116,383. PUBLISHED DECEMBER 2, 1919.

130,526. PRESERVED OR PARTIALLY OR WHOLLY PREPARED FOODS. THE INTERNATIONAL PRESERVING CORPORATION, New York, N. Y.
Filed February 17, 1919. Serial No. 115,916. PUBLISHED JANUARY 27, 1920.

130,527. WOMEN'S AND CHILDREN'S SHOES OF LEATHER AND CLOTH AND LEATHER. JOHANSEN BROTHERS SHOE COMPANY, St. Louis, Mo.
Filed April 30, 1919. Serial No. 118,015. PUBLISHED DECEMBER 9, 1919.

130,528. BOOTS, SHOES, SLIPPERS, AND SANDALS MADE OF LEATHER. WILLIAM KAUT FOOTWEAR COMPANY, Carthage, Mo.
Filed August 9, 1919. Serial No. 121,473. PUBLISHED JANUARY 6, 1920.

130,529. MEN'S, LADIES', AND CHILDREN'S HOSIERY. THE KENNESAW HOSIERY COMPANY, Marietta, Ga.
Filed July 28, 1919. Serial No. 120,997. PUBLISHED JANUARY 20, 1920.

130,530. STEEL FENCEPOSTS. RAYMOND C. KNOPKE, Chicago, Ill.
Filed November 11, 1918. Serial No. 114,132. PUBLISHED DECEMBER 9, 1919.

130,531. BREAKFAST FOOD MADE OF CORN. CHAS. A. KRAUSE MILLING CO., Greenfield, Wis.
Filed November 17, 1919. Serial No. 124,997. PUBLISHED FEBRUARY 3, 1920.

130,532. FRESH CITRUS FRUITS—NAMELY, ORANGES, GRAPE-FRUIT, AND TANGERINES. LAKE REEDY PACKING CO., Frostproof, Fla.
Filed September 19, 1919. Serial No. 122,898. PUBLISHED JANUARY 6, 1920.

130,533. FRESH CITRUS FRUITS—NAMELY, ORANGES, GRAPE-FRUIT, AND TANGERINES. LAKE REEDY PACKING COMPANY, Frostproof, Fla.
Filed September 19, 1919. Serial No. 122,899. PUBLISHED DECEMBER 9, 1919.

130,534. KITCHEN-CABINETS. THE LAND-DILKS CO., Richmond, Ind.
Filed July 24, 1919. Serial No. 120,872. PUBLISHED DECEMBER 2, 1919.

130,535. CERTAIN NAMED MACHINERY AND TOOLS AND ATTACHMENTS THEREFOR. LAWSON & COMPANY, INCORPORATED, New York, N. Y.
Filed March 8, 1919. Serial No. 116,418. PUBLISHED JANUARY 6, 1920.

130,536. BUTTER AND CHEESE. HARRY C. LESLIE, Denver, Colo.
Filed February 23, 1917. Serial No. 101,608. PUBLISHED FEBRUARY 10, 1920.

130,537. TIME-STAMPS. JOSEPH LEVY, Boston, Mass.
Filed May 21, 1919. Serial No. 118,761. PUBLISHED JANUARY 6, 1920.

130,538. TOOL AND GEAR STEEL. LIBERTY STEEL PRODUCTS CO., INC., New York, N. Y.
Filed March 5, 1919. Serial No. 116,307. PUBLISHED NOVEMBER 4, 1919.

130,539. LIGHT-METAL ALLOYS IN THE FORM OF BARS OR INGOTS. LIGHT METALS CO., Roselle Park, N. J.
Filed December 2, 1918. Serial No. 114,452. PUBLISHED DECEMBER 30, 1919.

130,540. NAIL-FILES, MANICURE-STICKS, EMERY-BOARDS, NAIL-BUFFERS, AND MANICURE INSTRUMENTS. THE LUSTR-ITE CORPORATION, Brooklyn, N. Y.
Filed June 28, 1919. Serial No. 120,059. PUBLISHED NOVEMBER 25, 1919.

130,541. ASPHALT ROOFINGS. MCKEE-HODSHON & CO., New York, N. Y.
Filed August 19, 1919. Serial No. 121,811. PUBLISHED DECEMBER 2, 1919.

130,542. METEOROLOGICAL INSTRUMENTS FOR DETERMINING THE LINES OF MAGNETIC FLUX ON THE EARTH'S SURFACE AT DIFFERENT PERIODS. CHARLES E. MANNING, Philadelphia, Pa.
Filed June 18, 1918. Serial No. 111,654. PUBLISHED DECEMBER 2, 1919.

130,543. RUBBER AND COMPOSITION SOLES AND HEELS. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed September 12, 1917. Serial No. 106,212. PUBLISHED JANUARY 27, 1920.

130,544. YARN. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 5, 1919. Serial No. 118,145. PUBLISHED JANUARY 13, 1920.

130,545. WOMEN'S CLOTHING—NAMELY, HATS, SHIRT-WAISTS, DRESS-WAISTS, BLOUSES, AND UNDERWAISTS. MARY'S, INC., New York, N. Y.
Filed September 13, 1918. Serial No. 113,163. PUBLISHED APRIL 8, 1919.

130,546. KNITTED SWEATERS. ABE M. MENDELSON, New York, N. Y.
Filed April 23, 1919. Serial No. 117,780. PUBLISHED JANUARY 13, 1920.

130,547. CERTAIN NAMED CANNED FOODS, FRUIT JAMS, CONDENSED MILK, AND EVAPORATED MILK. J. MENIST COMPANY, INC., New York, N. Y.
Filed October 20, 1919. Serial No. 124,001. PUBLISHED DECEMBER 30, 1919.

130,548. METALLIC CEMENT. METAL MENDING COMPANY OF AMERICA, Bayonne, N. J.
Filed October 19, 1918. Serial No. 113,810. PUBLISHED DECEMBER 3, 1918.

130,549. WHEAT-FLOUR, BRAN AND MIDDLINGS, AND MIXED FEED. MIDWEST FLOUR & FEED COMPANY, St. Louis, Mo.
Filed October 23, 1919. Serial No. 124,119. PUBLISHED FEBRUARY 3, 1920.

130,550. BUILDING-TILE, BUILDING-BRICK, PAVING-BRICK, CHEMICAL-RESISTANT BRICKS AND BLOCKS, AND VITRIFIED BRICKS AND BLOCKS. MILTON BRICK COMPANY, Milton, Pa.
Filed June 9, 1919. Serial No. 119,355. PUBLISHED DECEMBER 2, 1919.

130,551. TOY MOLDS. HOWARD B. MINNICK, Chicago, Ill.
Filed February 17, 1919. Serial No. 115,922. PUBLISHED NOVEMBER 4, 1919.

130,552. AUTOMOBILE SPECIALTIES. THE MORGAN MANUFACTURING CO., INC, Keene, N. H.
Filed August 27, 1919. Serial No. 122,049. PUBLISHED DECEMBER 30, 1919.

130,553. TIN, GALVANIZED AND JAPANNED WARE. NATIONAL ENAMELING & STAMPING CO., New York, N. Y.
Filed July 28, 1919. Serial No. 121,012. PUBLISHED JANUARY 6, 1920.

130,554. METALS—NAMELY, ENGRAVERS' PLATES IN BLANK, OF COPPER, STEEL, AND ZINC. NATIONAL STEEL & COPPER PLATE CO., Chicago, Ill.
Filed May 21, 1919. Serial No. 118,765. PUBLISHED DECEMBER 9, 1919.

130,555. ELECTRIC MOTORS. NICHOLAS POWER COMPANY, INC., New York, N. Y.
Filed July 30, 1919. Serial No. 121,124. PUBLISHED OCTOBER 28, 1919.

130,556. FRUIT PRESERVES, INCLUDING PEACH, PINEAPPLE, STRAWBERRY, RASPBERRY, BLACKBERRY, CURRANT, AND PLUM PRESERVES. NORMAN BROS. & BERLIANT, INC., Chicago, Ill.
Filed July 26, 1919. Serial No. 120,968. PUBLISHED JANUARY 27, 1920.

130,557. BELT-BUCKLES, SHOE-BUCKLES, FOB-BUCKLES, AND SLIPPER-SLIDES. NORTH AND JUDD MANUFACTURING COMPANY, New Britain, Conn.
Filed July 17, 1919. Serial No. 120,648. PUBLISHED DECEMBER 2, 1919.

130,558. WORK-CLOTHING — NAMELY, OVERALLS, SHIRTS, PANTS, JUMPERS. D. M. OBERMAN MANUFACTURING COMPANY, Jefferson City, Mo.
Filed September 26, 1919. Serial No. 123,168. PUBLISHED DECEMBER 30, 1919.

130,559. PINEAPPLE JELLY. PEARL CITY FRUIT CO. LTD., Honolulu, Territory of Hawaii.
Filed September 19, 1919. Serial No. 122,913. PUBLISHED JANUARY 6, 1920.

130,560. SAFETY-RAZORS. JOSEPH POTTER, Birmingham, England.
Filed June 11, 1919. Serial No. 119,490. PUBLISHED DECEMBER 9, 1919.

130,561. SCREWS, BOLTS, NUTS, RIVETS, AND BURS. REED & PRINCE MANUFACTURING COMPANY, Worcester, Mass.
Filed January 20, 1919. Serial No. 115,326. PUBLISHED NOVEMBER 25, 1919.

130,562. MEN'S AND WOMEN'S BOOTS AND SHOES COMPOSED IN WHOLE OR IN PART OF LEATHER. RICHARDS & BRENNAN CO., Randolph, Mass.
Filed August 24, 1918. Serial No. 112,863. PUBLISHED FEBRUARY 24, 1920.

130,563. CERTAIN NAMED BEVERAGES SOLD AS SOFT DRINKS. JACOB RIES BOTTLING WORKS, INC., Shakopee, Minn.
Filed September 4, 1919. Serial No. 122,312. PUBLISHED DECEMBER 2, 1919.

130,564. CHOCOLATE CANDY. RIESENER CHOCOLATE CO., San Francisco, Calif.
Filed September 19, 1919. Serial No. 122,914. PUBLISHED DECEMBER 9, 1919.

130,565. TROUSERS. SAM ROSENBAUM & SONS COMPANY, Kalamazoo, Mich.
Filed September 5, 1919. Serial No. 122,367. PUBLISHED JANUARY 20, 1920.

130,566. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed May 7, 1919. Serial No. 118,239. PUBLISHED JANUARY 27, 1920.

130,567. CARD GAME. HOLLISTER M. J. RUCH, Syracuse, N. Y.
Filed May 7, 1919. Serial No. 118,246. PUBLISHED JANUARY 13, 1920.

130,568. SARDINES. RUEPPEL-JONES IMPORTING COMPANY, INC., New York, N. Y.
Filed September 18, 1919. Serial No. 122,858. PUBLISHED JANUARY 6, 1920.

130,569. YARN. HOWARD F. SALISBURY, Providence, R. I.
Filed January 31, 1919. Serial No. 115,556. PUBLISHED JANUARY 13, 1920.

130,570. FIRE-EXTINGUISHING SYRINGES. THE SCALLAN SUPPLY COMPANY, Cincinnati, Ohio.
Filed July 25, 1919. Serial No. 120,940. PUBLISHED NOVEMBER 25, 1919.

130,571. ONE-PIECE DRESSES AND APRONS. CARRIE R. SCHMICK, Beach Cliff, Rocky River, Ohio.
Filed October 9, 1918. Serial No. 113,635. PUBLISHED JANUARY 13, 1920.

130,572. NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed March 24, 1919. Serial No. 116,855. PUBLISHED NOVEMBER 25, 1919.

130,573. NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed May 22, 1919. Serial No. 118,795. PUBLISHED NOVEMBER 25, 1919.

130,574. PLUMBING AND STEAM-FITTING SUPPLIES. ROBERT J. SHANNON, Toronto, Ontario, Canada.
Filed September 19, 1918. Serial No. 113,269. PUBLISHED NOVEMBER 18, 1919.

130,575. CERTAIN NAMED GARMENTS FOR MEN, WOMEN, AND CHILDREN. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed May 26, 1919. Serial No. 118,940. PUBLISHED JANUARY 6, 1920.

130,576. CERTAIN NAMED GARMENTS FOR MEN, WOMEN, AND CHILDREN. SAMUEL A. SINGER, Boston, Mass.
Filed June 3, 1919. Serial No. 119,173. PUBLISHED DECEMBER 9, 1919.

130,577. PRESERVED FRUIT. BEATRICE SMALLWOOD, Washington, D. C.
Filed September 16, 1919. Serial No. 122,793. PUBLISHED DECEMBER 9, 1919.

130,578. AUTOMOBILE ACCESSORIES — NAMELY, WIND-SHIELDS, WIND-SHIELD HINGES, WIND-SHIELD FRAMES, ROBE AND FOOT RAILS. JOSEPH N. SMITH & COMPANY, Detroit, Mich.
Filed August 13, 1917. Serial No. 105,630. PUBLISHED JANUARY 6, 1920.

130,579. SHOP-APRONS, OVERALLS, JACKETS, AND UTILITY-SUITS. THE SPARTAN MANUFACTURING COMPANY, Dayton, Ohio.
Filed September 26, 1918. Serial No. 113,440. PUBLISHED JANUARY 13, 1920.

130,580. CERTAIN NAMED CLOTHING. GEORGE SPENCER & Co., Lutterworth, England.
Filed February 4, 1919. Serial No. 115,631. PUBLISHED JANUARY 13, 1920.

130,581. CHEWING AND SMOKING TOBACCO. STANDARD TOBACCO COMPANY, INC., New York, N. Y.
Filed September 13, 1919. Serial No. 122,665. PUBLISHED NOVEMBER 25, 1919.

130,582. HOSIERY. A. STIEGLITZ & CO. INC., New York, N. Y.
Filed August 7, 1919. Serial No. 121,362. PUBLISHED JANUARY 6, 1920.

130,583. PREPARED COMPRESSED SOUP. ST. LOUIS FOOD PRODUCTS COMPANY, St. Louis, Mo.
Filed September 29, 1919. Serial No. 123,265. PUBLISHED FEBRUARY 3, 1920.

130,584. COTTON PIECE GOODS. ROBERT A. SUFFERN, New York, N. Y.
Filed August 21, 1919. Serial No. 121,877. PUBLISHED DECEMBER 23, 1919.

130,585. STEAM-COOKERS. THE TOLEDO COOKER COMPANY, Toledo, Ohio.
Filed February 23, 1918. Serial No. 109,181. PUBLISHED JANUARY 13, 1920.

130,586. ANTIFRICTION BEARING METALS. UNION SMELTING & REFINING COMPANY, INC., Newark, N. J.
Filed April 3, 1919. Serial No. 117,145. PUBLISHED JANUARY 6, 1920.

130,587. CANNED FRUITS — NAMELY, CANNED PEACHES AND APRICOTS. UNITED STATES TRADING CORPORATION, San Francisco, Calif.
Filed September 19, 1919. Serial No. 122,924. PUBLISHED DECEMBER 9, 1919.

130,588. CHEWING-GUM. UNIVERSAL PRODUCTS CO., Kansas City, Mo.
Filed October 8, 1919. Serial No. 123,563. PUBLISHED FEBRUARY 3, 1920.

130,589. INTERNAL-COMBUSTION MOTOR-TRACTORS. VELIE MOTORS CORPORATION, Moline, Ill.
Filed July 24, 1919. Serial No. 120,891. PUBLISHED NOVEMBER 25, 1919.

130,590. HEAT-RESISTING CASTINGS MANUFACTURED FROM AN ALLOY OF NICKEL, CHROME-IRON, MANGANESE, AND SILICON. HIRAM WALKER & SONS METAL PRODUCTS, LIMITED, Walkerville, Canada.
Filed September 13, 1918. Serial No. 113,169. PUBLISHED JANUARY 6, 1920.

130,591. SECTIONAL BUILDINGS READY CUT, ASSEMBLED INTO SECTIONS, AND PORTABLE. GUSTAVE WENZELMANN, Galesburg, Ill.
Filed August 12, 1919. Serial No. 121,611. PUBLISHED DECEMBER 2, 1919.

130,592. RUBBER TOY BALLOONS. THE WESTERN RESERVE RUBBER CO., Kenmore, Ohio.
Filed June 10, 1919. Serial No. 119,460. PUBLISHED DECEMBER 2, 1919.

130,593. FELT, KID, OOZE, CRETONNE, LEATHER, SILK, SATEEN, AND SATIN SLIPPERS. THE WILEY-BICKFORD-SWEET CO., Worcester, Mass.
Filed November 13, 1916. Serial No. 99,290. PUBLISHED DECEMBER 9, 1919.

130,594. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass.
Filed July 24, 1919. Serial No. 120,900. PUBLISHED FEBRUARY 3, 1920.

130,595. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed July 18, 1919. Serial No. 120,684. PUBLISHED DECEMBER 23, 1919.

LABELS

REGISTERED APRIL 27, 1920.

21,844.—*Title:* "WHITE TOP." (For Marshmallow Creme Preparation.) AMERICAN BISCUIT COMPANY, Chicago, Ill. Filed October 27, 1919.

21,845.—*Title:* "PEGGY PEACH DOLL OUTFIT." (For a Material for Doll-Dresses.) MARTHA G. BAUMANN, Orange, N. J. Filed November 8, 1919.

21,846.—*Title:* "HOREHOUND CHARMS." (For Fruit Tablets — Namely, Charms, Hoarhound Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,847.—*Title:* "ASSORTED CHARMS." (For Fruit Tablets—Namely, Charms, Assorted Flavors.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,848.—*Title:* "RASPBERRY CHARMS." (For Fruit Tablets — Namely, Charms, Raspberry Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,849.—*Title:* "BUTTER CHARMS." (For Fruit Tablets — Namely, Charms, Butter Flavor.) CHARMS COMPANY, Newark, N. J. Filed November 28, 1919.

21,850.—*Title:* "XTRA-GOOD." (For Automobile-Tire Pumps.) THE HARTFORD METAL PRODUCTS COMPANY, Hartford, Conn. Filed November 1, 1919.

21,851.—*Title:* "STATE SEAL BRAND." (For Fresh Apples.) PACIFIC FRUIT & PRODUCE CO., Portland, Oreg. Filed November 4, 1919.

21,852.—*Title:* "WASHER MAID." (For Soap.) THE WASHER MAID COMPANY, Chicago, Ill. Filed October 31, 1919.

PRINTS

REGISTERED APRIL 27, 1920.

5,254.—*Title:* "PALZO." (For a Cleanser.) RUNYAN CHEMICAL PRODUCTS CO., Omaha, Nebr. Filed October 10, 1919.

5,255.—*Title:* "SUN FLAKES GIVE YOUR WASHABLE GARMENTS A SUN FLAKE BATH." (For Soaps in Flake Form.) SUNBEAM CHEMICAL COMPANY, Chicago, Ill. Filed October 25, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Third Circuit.

CONSOLIDATED WINDOW GLASS CO. *v.* WINDOW GLASS MACH. CO. *et al.*

Decided October 13, 1919.

[261 Fed. Rep., 362.]

1. PATENTS — ANTICIPATION — PRIOR UNSUCCESSFUL DEVICE NOT AN ANTICIPATION.

Patents for a machine and process for drawing glass for windows mechanically are not anticipated by patents for earlier and abortive devices and methods where the patents in suit were the first that were successful, and such patents must be given a broad and liberal construction, the inventors being pioneers in the art.

2. SAME—DRAWING WINDOW-GLASS—PATENTS VALID AND INFRINGED.

The Lubbers patent, No. 702,013, claims 1, 2, 3, 5, 8, 9, 10, 12, 13, 15, 16, 17, and 18, as well as Patent No. 702,014, claims 2, 3, 4, 5, 8, 9, 11, and 13, the first of which was for an apparatus for mechanically drawing window-glass and the latter being a method patent, *Held* valid and infringed.

3. SAME—MECHANICAL DRAWING OF GLASS—PATENT VALID AND INFRINGED.

The Lubbers divisional patent, No. 702,015, which showed the use, in connection with his shield in the forehearth, of floating rings, all of which apparatus was used for the mechanical drawing of glass, *Held* valid and infringed.

4. SAME—DRAWING GLASS—PATENT VALID AND INFRINGED.

The Lubbers patent, No. 886,618, for an air-vent hole in the apparatus for mechanically drawing glass, claims 20, 21, 23, 24, and 26 *Held* valid and infringed.

5. SAME — IMPROVEMENT OF APPARATUS FOR DRAWING GLASS—PATENT VALID AND INFRINGED.

The Lubbers patent, No. 886,618, for an air-vent hole in the apparatus for mechanically drawing glass, the application for which was filed May 21, 1903, and which was granted May 5, 1908, after the patentee, at the suggestion of the Patent Office, later made a divisional application of that patent, applying for Patent No. 1,020,920, and filing nearly three years later additional claims for his original patent, *Held* valid, it appearing that the whole art was in a state of flux and experiment and it being impossible to say with definiteness that Lubbers had satisfactorily worked out the open-vent solution more than two years in advance of his application.

6. SAME—IMPROVEMENT OF METHOD OF DRAWING GLASS—PATENT VALID AND INFRINGED.

The Chambers patent, No. 782,880, for a method for gradually increasing the speed of the drawing operation for the mechanical drawing of glass, *Held* valid and infringed.

7. SAME—REGULATING SPEED OF DRAWING GLASS—PATENT VALID AND INFRINGED.

The Lubbers patent, No. 822,678, for a method of regulating the speed for the mechanical drawing of glass, *Held* valid and infringed.

8. SAME—REGULATING DRAWING OF GLASS—PATENT VALID AND INFRINGED.

The Lubbers patent, No. 914,586, for an appliance to regulate the mechanical drawing of glass, so that the surface tension on the bait would be equalized, *Held* valid and infringed.

9. SAME—CAPPING GLASS CYLINDERS—PATENT VALID AND INFRINGED.

The Hitner patent, No. 821,361, for a device for capping off glass cylinders, *Held* valid despite the contention that it had been placed on sale more than two years before application, and also *Held* infringed.

10. SAME — HOISTING DEVICE — PATENT VALID AND INFRINGED.

The Hitner patent, No. 822,452, for a hoisting device to move large cylinders of glass mechanically drawn, *Held* valid and infringed.

11. SAME—HOLDING GLASS CYLINDERS—PATENT VALID AS TO CERTAIN CLAIMS.

The Bridge patent, No. 1,006,995, for an apparatus for holding the large mechanically-drawn glass cylinders, which was fit for use when the cylinders were divided into segments, *Held* valid as to claims 1, 2, and 4.

12. SAME—EVIDENCE OF INVENTION—SIMPLICITY OF DEVICE.

The Lubbers patent, No. 886,618, for an air-vent hole in an apparatus for mechanically drawing glass, claims 20, 21, 23, 24, and 26 *Held* to involve an invention of a high order. "The simplicity of the use of an open vent, which simplicity is cited as evidence of lack of invention, to our mind shows the high order of novelty and invention, in thus making use of a simple opening, instead of complicated mechanical appliances, in order to accomplish a really remarkable result."

13. SAME—ANTICIPATION—METHOD OF BLOWING GLASS BY MECHANICAL MEANS NOT ANTICIPATED BY HAND-BLOWING METHODS.

Claim 5 of the Lubbers patent, No. 702,014, for a method of forming hollow glass articles, *Held* to be physically and functionally different from the hand-blowing method of the prior art, in which the hand-blower took advantage of a swinging motion imparted to the article and of gravity, while according to the method of the claim an increased air-supply was relied upon.

APPEALS and cross-appeals from the District Court of the United States for the Western District of Pennsylvania; W. H. Seward Thomson, judge.

Suits by the Window Glass Machine Company and another against the Consolidated Window Glass

Company, against the Pennsylvania Window Glass Company, and against the Kane Glass Company, which were consolidated. From a decree for complainants, but which denied some of the relief sought, the several defendants appeal, and complainants assign cross-errors. Modified and affirmed.

Mr. Marshall A. Christy, Mr. Robert D. Totten, and *Mr. Charles Neave* (*Mr. James I. Kay* and *Mr. A. W. Bright* of counsel) for the appellants.

Mr. Clarence P. Byrnes and *Mr. George H. Parmelee* (*Mr. Livingston Gifford* of counsel) for the appellees.

Before BUFFINGTON, WOOLLEY, and HAIGHT, Circuit Judges.

BUFFINGTON, *Cir. J.:*

This case concerns window-glass, a product which enters into practically every home and structure in the country. It covers a great pioneer step in this universal art, when to its customary and time-used method of blowing such window-glass by human skill, "man-blown glass," there was added the mechanical exactness and increased production of "machine-drawn glass." That step gave to a machine and a mechanical process the equivalent of the fine skill of the most skilful of artisans, and of artisans who dealt with the most difficult to handle of products, viz., molten glass, which was changing its nature every second it was handled. This step freed the window-glass art and its universally-used product from the absolute domination and monopoly of a small body of skilled artisans, whose organization absolutely controlled its operation and the amount and price of its output. This change enabled some seventy ordinary mechanical employees, with the help of machinery, to produce the product theretofore made by substantially six hundred blowers, whose exacting work was often done at the expense of their health, for the glass-blower's work, with its abnormal lung expansion, often caused physical decline. This change also brought about a decreased price of a universally-used product. The machine-drawn output is now two-thirds of the window-glass product of the United States, and this machine-drawn process and apparatus have been such that within a few years after they began in the latter country they have been adopted and used in England, France, Germany, Austria, Italy, Russia, Spain, Portugal, Japan, and also in Canada.

The width of the change from the hand-blown process of the new is best illustrated by a brief description of both. To make a square sheet, from which panes of window-glass can be cut, it is necessary to have a cylinder or roller whose sides are of uniform thickness and whose length is about four or five feet. Such a cylinder, or sectional cylinder, must be then split or parted on a straight line through its entire length, and then placed, with such split uppermost, in a heated furnace. As the glass softens, the sides of the cylinder recede from this longitudinal split, and we have the rectangular sheet of glass desired, from which, after certain flattening, annealing, and cleaning processes have been applied to it, panes of window-glass of appropriate size may be cut. The formation of such cylinders, or sectional cylinders, is the aim of both the hand-blowing and machine-drawing methods; but the blower could only make one cylinder at a time, and this of a length limited to say four or five feet, and a diameter of say ten inches, while by the machine-drawn method a cylinder of say thirty-eight feet in length and thirty-eight inches in diameter, and capable of being cut into five or nine subsections or rollers, could be produced. In doing this, the blower used a tool called a blowpipe, which consisted of a hollow stem through which he blew, and a bell-shaped enlargement at its end, on which he manipulated the molten glass. Taking this blowpipe, a workman, called a "gatherer," first inserted the bell-shaped, heated end of the blowpipe into a pot or tank of molten glass, and rotated it so as to gather a small mass of such molten glass on such end. The pipe was then taken to the cooling-tub, where the pipe shaft or stem was cooled, and the glass shaped or cooled on the surface. This operation was repeated three times, which gave to the mass successive layers of glass like the skin of an onion. The glass lump, which still remained plastic, was then shaped by turning it in a suitably-cooled wooden or metal block having a shaped cavity. The blower then took the tool with the glass mass on its end, and blew in some air by his lungs, while still turning the mass in the blower-block. This gave it a rough pear shape. The glass was then reheated in the "blow-furnace," and the blower then swung the depending plastic mass in a trench, and while turning or twirling the pipe blew into it at intervals. By this operation, the size of the glass structure was determined by the air blown in, the glass being meanwhile elongated by gravity and the centrifugal effect of swinging, and at the same time the whole mass was kept symmetrical in form by twirling. During such manipulation the glass became too cold to work, and it was again reheated in the blow-furnace, and again elongated by the intermittent steps of swinging, twirling, and blowing, until a cylinder of equal diameter and thickness through its entire length was formed. When this was done, the end of the cylinder or "roller" thus formed was heated in the blow-furnace, and the closed end blown open. The roller was then laid horizontally on a horse or rack, and the blowpipe was broken or cracked off the one end, and the other or rounded end of the cylinder was then "capped off," or severed by wrapping around it a thread of hot glass and touching it with a cold iron; the expansion by reason of the hot thread and the contraction by reason of the cold iron, resulting in a straight cut of the cylinder on a line at right angles with the horizontal length of the cylinder itself. These rollers or small cylinders, so produced by glass-blowers, were, as we have said, from five to six feet in length, and eight or ten inches in diameter, and weighed about twenty pounds, though their weight in glass of double

strength might run over fifty pounds. The rapid and skilful handling of this swiftly-changing, molten mass, the difficulties and skill of manipulation, and the requirement that the finished product should be of even thickness throughout, manifestly necessitated work of the highest skill, coupled with great strength and endurance. This skill was of such a character that three years of apprenticeship was often required to learn it, even by a man who was familiar with the work incident to such blowing, and the workmen were so restricted in numbers and of such individual skill that they formed a labor organization which absolutely dominated that industry.[1]

A visit, at the time of the argument of this case, of the members of this court to a glass factory near Pittsburgh, showed them the machine-drawing method of making window-glass. The extent of the operations of this factory, and the call for molten glass, were such as to necessitate the use of a tank to keep up the supply of glass required. This tank, of course, had nothing to do with the patents here involved; but, as a part of a practically continuous process from the raw material to the flattened sheets of window-glass, we note that such a vital element as the tank and the process therein employed, for keeping up the continuous supply of glass, will be found described in the case of *Siemens* v. *Chambers*, (C. C., 51 Fed., 902,) a case decided in this circuit, and in that connection it is in evidence in this case that one of the beneficent effects of the installation and successful use of the machine-drawn process was to permit the use of the tank, and the savings and product increase due to that economical agent of efficiency and to the use of which the glass-blowers had always objected. In this tank a huge bowl at the end of a long handle, which was suspended by a chain from an overhead runway was dipped into the tank-mouth and filled with molten glass. The dipper was then swung around and the glass carried to a glass-pot, from which the molten glass was to be machine-drawn. It will here be noted that the use of this pot, situate at some distance from the tank, was the method used in this particular factory, while the alleged infringing method used, and with which we are here concerned, consisted in working the molten glass, not in a pot, but in a structure situated alongside of and drawing its glass directly from the tank.

But, to return to the factory visited, it will be noted that the machinery by which this draw is there effected was centered in a platform about forty feet above the molten glass. This platform contained the different mechanisms required, and had suspended from it the mechanical semblance of a glass-blower's tool. This tool was a hollow pipe about five or six feet in length, at the bottom of which was a circular piece of steel, the whole tool somewhat resembling a mushroom-stem, with the top or umbrella inverted. From a cage in front of the mechanism, where the single operator, who controls the operation, watched and operated, the drawing-tool or bait, as it is technically termed, was caused to slowly descend. As the cage or mechanism was lowered along guideways which reached nearly to the pot, the inside of the steel bait dipped into the molten glass, which entered and filled the interior of the bait. As the bait had an interior edge or knuckle at its lower part, a circular rim of glass was at once formed by the molten glass coming in contact with the cooling steel. This solid rim thus formed was the start and support for the drawing operation which followed. As the bait slowly emerged from the pot of molten glass, a cylinder began to form, in a shape resembling a great demijohn; that is, first the neck, then the gradually-expanding shoulders, then the main or cylinder body proper, which slowly increased until a diameter of about thirty-eight inches was reached. As the "bait" continued rising, a molten-glass cylinder was slowly drawn upward from the pot, and this cylinder, now thirty-eight inches in diameter, slowly and majestically was drawn upward and upward until it reached a height of about thirty-eight feet. The slow emergence of these cylindrical walls of even thickness from a bath of molten fluid, mounting to such a height, self-supporting and changing gradually from fluid to plastic, then to solid, glass, impressed one as a real, veritable miracle, as the great cylinder stood erect, of predetermined thickness, and of clear transparency. It stopped substantially forty feet above the ground, supported by its own sides, and those sides resting on a fluid bed of molten glass at its foot. We stop at this point to place in a note in the margin[2] an extract from the testimony of Dr. Bishop, professor of physics and

[1] Q. What was the condition as to the labor organizations to which these blowers and gatherers belonged?

A. At that time, there were, if I recall correctly, two labor organizations, both of them trying to outdo each other in arbitrariness. They formulated rules for the operation of your factory, which you were obliged to live up to. You were restricted in the amount of glass that your men should blow in the eight-hour turn. They were required to lay off a certain portion of each eight-hour turn. The number of cylinders they were allowed to make was limited, and the number of boxes of glass for the week's work was limited, and an excess production over the limit was punished by severe penalties inflicted on the workmen. But the shortage of men made the workmen very arbitrary. They wanted their glass cut in sizes which made them the most money, irrespective of whether these sizes were the sizes which the trade required. The larger the size the glass was cut into, the greater were the earnings of the blower and gatherer and flattener. In addition, a man could make more money, and make it easier, blowing double strength than single strength, and, while the normal requirements of the country were always considered to be about one-fourth double and three-fourths single, lots of factories, our own included, were producing between 40 and 50 per cent. double, instead of 25, because we could get double strength blowers when we couldn't get men who would blow the single. The business from a manufacturing standpoint was chaotic.

Q. 15. How difficult was it to obtain membership in these unions?

A. Both the unions enforced the rule that no one could learn the trade, could learn any of the trades, what is termed the four trades, the blowing trade, the gathering trade, the flattening trade, and the cutting trade, unless he was a father, son, or brother of a member of the union.

[2] Q. When you began this investigation, what impressed you at first as the main physical factors involved, or what particularly impressed you mainly in the operation?

A. Well, the whole process, from the time they commenced to feed the glass into the enormous tank of molten glass until the time the process was complete. But to a physicist, who has been obliged to handle glass, and knows its brittle character and the strains that are produced in it, this drawing of a glass cylinder from a bath of molten glass strikes one as being really a marvelous performance. I recall very distinctly the first

dean of the School of Engineering of the University of Pittsburgh, who has admirably stated, not only the outward and visible features of the drawn-glass process, but the great range of occult and invisible functional elements which tend to make or mar such a process.

What shall be done with this immense cylinder? A cold bar of steel is run around the lower end of the cylinder, and it is at once cut off from the plastic glass, which falls back into the pot. We here note that the glass which falls back into the pot, and which is called the "aftermath," does not concern us in the present case; but the character of that aftermath and the conditions necessary for its treatment were matters which had to be reckoned with in effecting the industrial and economical success of the drawing process under consideration. A large hoop, padded with asbestos, is then run around the severed end of the cylinder. To this is attached an overhead line. The lower end of the cylinder is drawn out from the pot into mid-air, and as it is drawn out the cage, with the bait, is lowered until the great cylinder reaches a horizontal position. Then the bait is detached, and, although its weight is well upon to one hundred pounds, it is held suspended by the cylinder itself. The cylinder is then dropped into a long horse or supporting-rack, which consists of upright stems having semicircular hoops at their upper end, which are so spaced as to support the cylinder when lowered onto them. At this point a workman takes a capping-tool, and, beginning with the upper end of the cylinder, next the bait, caps or cuts the cylinder along the desired lines. These large cylinder-sections are then moved away to separate horses or racks, and, after being longitudinally cut, are subjected to the treatment of flattening, ironing, annealing, and cleaning, which were followed in the course of the small single cylinders of the glass-blower's art. To those interested in the subject the number of the *National Geographic Magazine* of May, 1919, contains illustrations and descriptions of this process.

(1) The proofs in this case show:

First, that while the suggestion of machine-drawn glass had been made and was recognized in the literature of the art as early as the fifties, no practical method of machine-drawing window-glass had been evolved in the fifty years following, and the highest achievement of the art and the only method of making window-glass was the hand-blown process first described. Interesting, therefore, as these prior suggestions were, suggestive as they may have been, in practice they got nowhere. It therefore follows that the men who in 1894 began a systematic and costly campaign to draw glass by machinery were absolutely pioneers in that field, so far as accomplishment was concerned. It follows, also, that these prior patents, none of which solved the problem of machine-drawn window-glass, should have no effect in anticipating, qualifying, or defeating the claims for patent protection of those whose subsequent effort actually produced machine-drawn window-glass. Nor should these earlier, but certain, attempts which resulted in absolutely nothing, shield and protect from infringement and accounting those who copied not the abortive failures, but the successful steps of the originators of machine-drawn glass.

Second, while, of course, many of the general principles on which the hand glass-blower formed the cylinder, must in the nature of things be the same as those by which the machine formed the same cylinder out of the same material, yet it will be seen that the hand-blown art and the machine art are essentially different. In that respect, the trial judge below well said:

> While there are certain analogies between the hand-blowing and machine operation of drawing glass cylinders, the former having taught certain principles, as the regulation of the size of the cylinder by internal air pressure, and control of the thickness of the glass by elongation, yet there are many fundamental and vital differences between the two systems.

Third, the machine-drawn window-glass is produced by one continuous, progressive operation. There is no reheating. The diameter and length of the cylinder are so different that it is evident that the magnitude of the article handled, the continuous operation in handling, and the size of the product produced, in themselves are factors indicating that the problems involved in this continuous process, their interrelation to each other, the elements of air distention, the glass heat, and its rapid changes, unite with many other factors to make the whole process so correlated and interwoven that each element or invention which contributes to the successful end cannot be considered as an isolated inventive act, but must be viewed from the standpoint of all the parts of an interrelated, correlated, combination whole. In that respect, the trial judge well said:

> It is, perhaps, true that few, if any, of the arts presented so many perplexing problems as the drawing of glass cylinders by machinery from a molten bath. These problems appeared at the very beginning of the operation, and rose up persistently all along the way. The inventor had to deal with elemental actions, forces, and properties of matter; with things in the nature of heat, cold, the properties of solids, liquids, and gases; heat applied to the glass, and cold applied to the molten liquid; the properties and physical constitution of the glass as it passed from the solid to the liquid condition, through the plastic condition up to the solid state again; the application of air under conditions of pressure, and under conditions of pressure varied by heat. He must consider the uniformity or nonuniformity of the temperature of the glass in the furnace at different places and at different times; the conditions under which the intense heat from the furnace must be guarded from the drawing point, and the systematic segregation of the glass at that point. If the draw is from a pot, the relation between the diameter of the pot and the diameter of the cylinder being drawn; the rate of cooling of the glass in the receptacle from which the draw is being made; the speed of the draw, having relation to the temperature conditions in the drawing receptacle, as well as in the cylinder being drawn; the action of the air on the cylinder, both within and without; the temperature of the air, when admitted to the cylinder, and the heating effect on the air after it has been admitted; the regulation of the air pressure in the cylinder to procure uniformity of diameter and to eliminate the "breathing" of the cylinder, with the resultant corrugations in the glass; the symmetrical heating during the draw to prevent the lateral movement of the cylinder, and the melting back of the aftermath or residuum between the draws; the surface tension of the glass, and the strains produced in the cylinder while forming, and while being taken down. These problems were not only numerous and complex, but many of the difficulties were latent and were only located after repeated experiments and failures. When the difficulty had been definitely determined and located, the remedy had to be found.

The patient hearing and consideration of this case by Judge Thomson, and his able opinion in its many phases, lead us to feel that the foregoing extract from his opinion points out the proper attitude of a court toward the patents which have bridged the great chasm between the hand-blown and machine-drawn window-glass, and to this admirable statement of Judge Thomson's we add that of Judge Pollock, who had these same patents before him, where he said:

> Considering then: (1) all the patents involved in this suit as unified in purpose to carry forward the process devised, or as mechanical aids essential to the conduct of such process, therefore merely incidental thereto; (2) that by the process involved there was accomplished for the first time the new and useful result of mechanically drawing glass cylinders from a molten receptacle of glass of such size, thickness, diameter of cylinder, and degree of perfection as to successfully compete with hand-blown cylinders in trade and commerce; (3) because of the far-reaching importance this old result accomplished in a new and hitherto unknown way, making it of the largest economic consequence, value, and importance in the trade and in labor saving—the patents covering the process must and should, I believe, be regarded of the highest importance and be accorded the largest degree of credit given by the law to patents; and (4) indulging in favor of the validity of the patents themselves these presumptions which arise in law from the admitted facts of this case, such as (*a*) the legal presumption as to the validity of the patents, (*b*) the creation of a new mechanical industry, (*c*) arrived at after years of ceaseless experimentation and investigation under great difficulties and at large expense, (*d*) in dealing with a product of nature of such delicate and fragile texture as glass, (*e*) wherein the operation carried through the process was the first to employ, regulate, and successfully control natural forces and devote them to a useful end, (*f*) at a time when such forces were little understood and progress was impeded at every step by latent difficulties, hard to discover and harder to overcome, all of which presumptions must be indulged in this case under the rules established in the adjudicated cases.

When we consider that this machine-drawn-window-glass process and apparatus were the outcome of years of courageous and original experimentation, and that in those experiments several million dollars were sunk, we can see that we are dealing not only with a great contribution to a great art, but with the creation of a new art, and that the steps involved are of a radical, basic, and pioneer character.

Turning, then, to the machine-drawn-window-glass process and the mechanism which we have described above and seeking to find the basic principles and locate the dominant factors involved therein, we may say that the general problem attempted was to mechanically and continuously draw from a body of molten glass a self-supporting cylinder of substantially uniform diameter and substantially uniform wall thickness, in size so much larger than the glass cylinder of the hand-blown art as to increase output and decrease cost. In approaching this problem of an art which existed only in contemplation, it is clear the inventors departed abruptly from the art of hand-blown window-glass by ignoring certain principles and dispensing with certain agencies there regarded as fundamental and indispensable.

In the art of hand-blown window-glass, the size and shape of the glass cylinder or "roller"—the primary structure—were attained chiefly by resort to certain laws of nature. The cylinder, on being swung in the trench, was elongated by gravity; it was distended by air-pressure from the blower; its symmetrical form was made and maintained by the centrifugal effect of turning and twirling. Rather instinctively the blower supplied the requisite quantity of air to effect distention; thereafter his skill merely supplemented the natural operations of centrifugal force and the law of gravitation. To the control and use of these natural forces, the hand-blower applied his skill; without them, he could not exercise his skill, and he could not make glass. Gravity and centrifugal force were therefore the basic elements or agencies on which the art of hand-blown window-glass was built.

time I visited this plant and observed the bait lowered into the glass, and marveled at the ease with which the glass was fastened to it; and as the bait was drawn upward the tendency was to watch the bait and the attached glass cylinder and *see how soon it would fall down.* After I became accustomed to that, I then watched to see what was going on in the bath of molten glass. It naturally separated itself in this way: We have the molten liquid glass, then a zone that we might call the meniscus zone; then above this the plastic zone, where the glass is flexible and moves with the greatest ease, something like a leaf in the wind; above this plastic zone comes the setting zone; and then passes into window glass in the upper part of the cylinder. Now, I was impressed with the fact that the mechanical appliances must be quite remarkable, and there must be a very close correlation and coördination, not only between the various physical factors which enter into this, but between the eye and the hand of the operator and the machines which correlated these various factors.

Q. You have referred to the physical factors involved in this process. I will ask you to state, from your study of these methods, what you consider to be the main physical factors involved.

A. After a prolonged study of this subject, I decided that the main essential factors are: (1) The bath of molten glass. (2) Heating to maintain the glass in a liquid state at a proper drawing temperature. (3) Shielding the heat from the drawing point. (4) Chilling of the glass in the bath. (5) Surface tension. (6) Viscosity. (7) Flexibility of the glass in the plastic zone. (8) Homogeneity of the glass; and under this two subheads: (*a*) uniform mass density; (*b*) uniform thermal density. (9) Symmetrical segregation of the glass at the drawing point. (10) Speed of draw, and its relation to the temperature conditions in the receptacle. (11) Relative air pressure within and without the cylinder and controlled by vent. (12) Strains: (*a*) produced in the glass while drawing; (*b*) taking down strains. (13) Cool glass remaining in the receptacle at the end of the draw; that is, the aftermath.

Q. Have you arranged any classification of these factors you have enumerated?

A. Of course, these factors entered, with perhaps one or two exceptions, simultaneously in a drawing operation. But it is possible, I think, to perhaps systematize these somewhat roughly under four heads: (*a*) factors affecting the glass in the receptacle; (*b*) factors affecting the glass during the drawing; (*c*) factors affecting the glass during the taking down; (*d*) factors preliminary to the next draw. Now, if you go back to these same 13 factors which I have enumerated, you can perhaps classify them somewhat under this arrangement: Under (*a*) "factors affecting the glass in the receptacle," we have: (1) the bath of liquid glass; (2) heating to maintain the glass in the bath in a liquid state; (3) shielding the heat from the drawing point; (4) chilling of the glass in the bath; (8) homogeneity of the glass in regard to its mass density and thermal density; (9) symmetrical segregation of the glass at the drawing point. The factors which have to do with the cylinder that is being drawn—that is, the ones that come under (*b*)—are: (5) surface tension; (6) viscosity; (7) elasticity; (10) speed of draw; (11) relative air pressure and vent control. The factors which enter during the taking down, under class (*c*) are: (12) strains which exist in the glass due to the method of the formation of the cylinder, and those which are introduced by the method employed to take the cylinder down and lay it in a horizontal position. Those factors which are preliminary to the next draw—that is, class (*d*)—are those which result from the necessity of removing the cool glass remaining in the receptacle at the end of the draw. This involves either a new factor in heating, if the aftermath is to be melted back and refined in place, or if the device which produced the symmetrical segregation of the glass at the drawing point is to be removed, and a new one put in its place. *I want to be very clear that, in attempting to classify these, that does not mean that one class occurs, and then another class occurs, and so on, but practically all of these occur all the time during the operation.*

In searching first for the problems of machine-drawn window-glass, and then for the solution of those problems, the inventors in this case wholly discarded centrifugal force as a factor in maintaining symmetry in the cylinder. They obtained the requisite symmetry by mechanically causing the motions of the cylinder to be vertical and steady, instead of oscillatory and revolving. They also discarded the law of gravitation as a means for lengthening the cylinder. They not only discarded this natural law, but they proceeded in direct opposition to it by employing means to cause the cylinder, in its elongation, to arise from a molten-glass base, instead of to descend from such a base. In a word, they substituted mechanical means for natural forces; and for the human element, by which air in varying volume was—instinctively, intuitively, or intelligently—supplied to the growing cylinder, the inventors also substituted mechanism. In thus dispensing with human intelligence or intuitions, and in proceeding, not only without the aid of natural forces previously relied on, but actually in opposition to them, the conceptions of the inventors were more than novel; they were audacious, and, being practical, they involve invention of the highest order.

In working out the conception of drawing window-glass mechanically, without the aid of elements of the old art, the inventors found that the controlling agencies were: (1) temperature of glass and air; (2) distending air; (3) speed of draw. Considering, therefore, these three basic factors and their subdivisions, let us turn to an examination of the inventive steps of those who contributed to final success—for manifestly, such a result could only be born of investigation—and see, first, whether such inventive efforts are embodied in the patents here in issue; second, what protection has been given that invention in the way of claims; third, are the features thus invented, and protected by claims, found in defendants' process and mechanism.

The real pioneers in this great advance were Lubbers, who was a glass-flattener and inventor, and James A. Chambers, who was an experienced glassman and whose means were placed at Lubbers's disposal. Lubbers began his experimental work in 1894 or 1895, and interested Chambers therein. The hidden difficulties of the problem which confronted these daring men are well illustrated by the fact that Lubbers believed at that time he could put machine-drawn window-glass on the market in three months, and Chambers was willing to invest large sums of money on the faith of that belief. Indeed, the difficulties that were from time to time encountered by these two men were almost superhuman, and it was not until 1901, and after a million dollars had been sunk in experimenting, that they were able to draw cylinders eight or ten inches in diameter and only five or six feet in length; in other words, to do just what the glass-blower could do. And while the results were such as to encourage them to go farther, the stupendous difficulties confronting them are apparent, when it is considered that, with all this outlay of effort, inventive skill, and money, they were not able even then to produce machine-drawn window-glass on a successful commercial scale. Addressing our attention to that period of development, let us consider in serial order the inventions made and the patents granted during that time in the three basic fields above stated, viz: (*a*) temperature of glass and air; (*b*) distending air; and (*c*) speed of draw.

Turning first to the basic question of temperatures, Lubbers was confronted with radically new conditions and problems bearing on heat, both of the molten glass in the pot before it was drawn and in the cylinder as it was being drawn. We say "radically different" because, while the hand-blower had to meet varying heat conditions when he took his molten glass from the tank or the pot, the problem of the glass remaining in the tank or the pot no longer concerned him, and while, of course, he had to meet changing heat conditions of the mass he was handling as he progressively developed his cylinder, yet it will be observed the blower was able to apply heat anew three different times to the glass mass he was working, as the process advanced. In the case of machine-drawn glass, on the contrary, the maintenance and control of the necessary heat conditions was an absolute essential, not only in the glass being drawn, but in the pot, also, because the process was a continuous one, and the pot was continuously being drawn from. Hence the maintenance and control of heat in the pot was vitally essential to the success of a continuous process. In the same way, the maintenance and control of heat essential to drawing a cylinder were equally essential and became more difficult because the glass in the cylinder could not be subjected to reheating as the process went on. Lubbers, therefore, began with the tank, which was the necessary base of a continuous process, and devised something that was wholly new in the tank art, namely, a forehearth or sidewise extension, whereby the glass was withdrawn from the main body of the tank and segregated in a place where it could be conveniently handled in a continuous process. But, while the forehearth afforded a convenient means of reaching the glass, Lubbers found that the glass being removed from the intense regenerative gas heat of the tank became colder at the outside wall of the forehearth and hottest in the part near the tank itself. To meet such objectionable heat variations, three different agencies or processes were at various times devised, to wit, a turntable pot, a pot-and-kiln method, and the forehearth method already referred to; but, as the question of infringement here involved concerns the latter, the forehearth method alone, we restrict ourselves to showing Lubbers's contribution to that problem.

(2) In taking up this heat problem, as well as the other problems concerned in the case, it is to be noted that the inventions made involve, as stated by Judge Thomson in the extract quoted above, the unusual feature of first locating or discovering the difficulty to be overcome and its relation to the

whole problem, before any inventive steps were taken to solve it. In other words, these patents involve, so to speak, two series of inventions: first, discovering the difficulty; and, second, discovering means to overcome that difficulty, for the proofs show that, while the mischief or difficulty was time and again seen in the broken or imperfect cylinders made, the complexity of the process, the many factors affecting it, and the difficulties incident to studying molten glass, all united to so obscure and confuse that it was impossible to locate the real cause of an objectionable result. To this temperature problem Lubbers's Patent No. 702,013, for an apparatus for drawing glass, applied for September 28, 1900, granted June 10, 1902, was addressed. Without entering into a detailed discussion of it and its companion method patent, No. 702,014, we may say that Lubbers therein disclosed drawing the glass from the forehearth of a tank-furnace, and that the use of the forehearth necessarily required that some provision for the regulation of tank heat be made. To that end, Lubbers provided a heat-shield and a water-cooled ring, for the purpose of securing symmetrical heating, symmetrical cooling, and symmetrical proper temperature generally, at the point where the cylinder was being drawn. The process and apparatus were wholly novel in use in the problem of machine-drawing window-glass. The judge below found the claims here involved, to wit, claims 1, 2, 3, 6, 8, 9, 10, 12, 13, 15, 16, 17, and 18, valid. This apparatus patent was a companion to method Patent No. 702,014. The judge below found claims 2, 3, 4, 8, 9, 11, and 13 valid, a conclusion in which we concur. He found claim 5, which is for—

> the method of forming hollow glass articles, consisting in drawing a hollow article from a bath of molten glass, supplying air to the interior of the article, and increasing the rate of air supply as the article increases in length, substantially as described—

invalid, in that regard saying:

> It is undoubtedly true that the elongating cylinder gradually cools, causing shrinkage in volume of the compressed air, and that there is a gradual decrease in the amount of heat imparted to the air as the cylinder lengthens, thereby lessening the expansion. It is also true that to meet these conditions there must be an increase in the air supply as the cylinder lengthens. Plaintiffs claim that this conception, covered by claim 5 of this method patent, is new in the art. I cannot concur in this view, even if this broad claim is read independently of the specifications defining the invention, wherein the inventor declared that to keep the cylinder of substantially uniform size it was necessary to automatically control the air supply, so as to regulate it according to the length of the cylinder being drawn, and that the supply of air should be slowly and gradually increased during the drawing operation. That the diameter of the forming glass cylinder must be maintained by air pressure is an old and well recognized basic proposition in the art of glass making. The glass-blower by hand was perfectly familiar with the principle. He knew that to enlarge the cylinder the air pressure must be increased, and to lessen it the pressure must be diminished. But he also knew, and put into constant practice, the principle that to maintain the cylinder of uniform diameter the air pressure must increase as the cylinder lengthens. Had he not known and practised this principle constantly, the fine art of hand-blowing window glass cylinders could not have developed. Without such knowledge no merchantable cylinder could have been blown at all. It was basic and fundamental in the art. That the hand blower might not have been able to assign the scientific reasons therefor is not important. He knew the principle and applied it. Those who attempted to do by machinery what the hand blower had done successfully for generations presumptively knew the fundamental principles upon which that art had been built.

In this conclusion we feel the court below was mistaken. The claim is limited to the process of drawing from a bath of molten glass, and the method claimed was in substance for supplying air to the interior of a machine-drawn cylinder and increasing the air-supply as such drawn cylinder increased in length. The judge below found that the same thing was done in the manual drawing of the glass-blowing art. Possibly this is true. The blower may have instinctively supplied air as he found the need of air, but the proofs do not show that the blower so increased the air with the increase in the length of the cylinder. But in the hand-blowing of cylinders there was the additional potent factor of a swing, as well as the blowing, to maintain the diameter of the cylinder as it increased in length. No such swing, and therefore no such means, of cylinder-lengthening by gravity exists in the machine-drawn process. It is evident, therefore, that Lubbers's method of meeting the difficulty was physically and functionally different from the hand-blower's method. It therefore seems to us that claim 5 should be held valid.

(3) In connection with the process patent, No. 702,014, Lubbers was granted a divisional patent, No. 702,015, which showed the use, in connection with his shield in the forehearth, of floating rings; the ring and shield having a sealing-joint whereby the surface of the glass within the ring is practically shut off or segregated from the surrounding heat. This apparatus was protected by six claims, all of which were found novel and inventive in character by the judge below, a conclusion in which we concur. We are not unmindful that the use of floating rings in tank-furnaces was old, but in the tank-furnace they floated generally over the whole glass-surface, and their principal function was not to segregate or protect from heat, but to keep the glass within them free from objectionable substances. But Lubbers used them in a different way, in that they were necessarily confined to one place, and that place was in the forehearth, and they were used in connection with shields which he also devised, and their use was here for the purposes of heat control alone.

(4) Turning next to the problems relating to the regulation of air and the solution thereof, we note that claim 5 of Patent No. 702,014 was an air problem, and under the order of discussion pointed out earlier in this opinion, would regularly be discussed under this present head. Regarding that claim, therefore, as a part of this present subject, and as here discussed by reference, we next turn to Lubbers's Patent No. 886,618 for an air-vent hole. The difficulty to which this patent was addressed was a fundamental one, and one which threatened to defeat the practical commercial success of the machine-drawing of window-glass. The difficulty that arose from air-pressure was that exceedingly slight variations led to the enlargement and corrugation of the cylinder, which of course made it practically unusable. Efforts had been made to overcome this difficulty by means of mechanical valves, of which Lubbers's apparatus and method patents, No. 702,016 and No. 702,017, in which Lubbers essayed

to meet the difficulty, are examples; but the air-pressure was so light, and the necessity of adjustment so exact, that such mechanical valves had proved failures.

In this dilemma Lubbers made the simple and novel discovery that nature itself could solve the difficulty if an open vent was provided, and that such vent would automatically take care of air-pressure, and would prevent corrugations and bumps, or breathing, as it was termed. In other words, that where an overpressure of air was passing down the bait-stem such overpressure would find a safety-valve in a continuously-open vent located in the path of supply. It was a novel, daring, and original suggestion, and in our judgment went to the very heart of the success of machine-drawing. Indeed, the simplicity of the use of an open vent, which simplicity is cited as evidence of lack of invention, to our mind shows the high order of novelty and invention, in thus making use of a simple opening, instead of complicated mechanical appliances, in order to accomplish a really remarkable result. Substantially there is nothing to the patent except the vent, used in the connection it is; but that very simplicity, originality, and effectiveness of the use evidence a high order of invention in employing such a simple appliance to accomplish such a vital result. As to the invention, the patentee states:

> The invention also relates to the exhaust or relief of a small portion of the air supplied to the interior of the article during drawing, through a small hole which is opened by the operator after the forming of the cap, so that a constant opening is provided through which the excess air is passed out as it becomes heated within the article. This has been found desirable, especially in connection with the graduating valve by which the supply of air is controlled, since the small outlet prevents enlarging of the article during drawing which is otherwise liable to occur on account of variations of pressure in the cylinder.

The broad character of the invention was recognized by the Patent Office in awarding a generic claim such as No. 20:

> In glass-drawing apparatus, an air supply pipe having an open outlet for air, arranged to equalize pressure in the article being drawn, substantially as described.

This claim, and Nos. 21, 23, 24, and 26, were all found valid by the court below, a conclusion in which we concur.

(5) We have not overlooked the able argument of counsel that Lubbers was not entitled to this claim, by reason of certain proceedings in the Patent Office. The history of the proceeding was that Lubbers applied on May 21, 1903, for Patent No. 886,618, granted May 5, 1908. At the suggestion of the Office, he later, and on a divisional application of that patent, applied for Patent No. 1,020,920, and the claims noted above were filed on April 25, 1906, which, it will be noticed, is almost three years after the original application was filed. We have carefully considered the subject, and see no reason to feel that this second application of Lubbers was not properly made, in connection with his original application. It was germane to it. The whole art was in a state of flux and experiment. New difficulties were being discovered, and it took time to locate what was the cause of these difficulties, as well as to devise means for meeting them. Certainly this whole matter of venting was an open, unsolved subject during this experimental season, and we find no time we can place our hands on with definiteness when Lubbers had satisfactorily worked out this open-vent solution, which time is more than two years in advance of his application.

(6) Turning next to the speed of draw, which we have found one of the basic elements of success in the process, we note the Patent No. 762,880, granted to James A. Chambers June 21, 1904, for a method of drawing glass articles. The claims involved are:

First:

> The method of shaping glass articles, consisting in drawing them from a glass bath and gradually increasing the speed of drawing through the drawing operation, substantially as described.

Second:

> The method of shaping glass articles, consisting in drawing them upwardly from a bath of molten glass and gradually and automatically increasing the speed of the drawing operation, substantially as described.

The court below found the two claims invalid. Our study of this art brings us to a different conclusion. It is, of course, clear that it is a self-evident fact that the faster a draw of molten glass is made the thinner the resultant article, and, of course, the slower the draw the thicker the glass. But from the time these experiments were begun by Lubbers no one seems to have thought of applying that general principle in a practical way to the new art of drawing that was being experimentally developed, until Chambers, who was a practical, experienced, and pioneer operator in glass, suggested his solution. Chambers's account of the art that Lubbers had up to that time developed in blown articles, and his remedy, are set forth in his application. He says:

> My invention relates to the drawing of glass articles from a molten bath, and is designed to increase the output of drawing machines and to make the thickness of the glass more uniform throughout the cylinder or article being drawn. Heretofore in the drawing of cylinders and similar articles from receptacles containing a molten glass bath, the bait has been drawn upwardly at substantially the same speed throughout the drawing of the article. In such cases, especially where a cylinder is drawn two or three times the length of a roller, the glass of the lower portion of the cylinder is thicker than that in the upper portion. I have found that this difference in thickness is due to the gradual chilling of the glass in the bath, the glass gradually growing stiffer through the time occupied in the drawing operation, and that by gradually increasing the speed of the bait during the drawing operation I can reduce the time occupied in drawing and produce the article having a more uniform thickness of glass throughout its length.

Chambers disclosed a practical method of employing his principle by the use of a conically-shaped drum, rotated at uniform speed. The drawing began when the line was around the small end of the conical drum, and as it proceeded the successively-larger portions of the drum over which the drawing-line passed automatically increased the speed at which the bait was drawn upwardly. Chambers's method solved a real difficulty, and his principle of difference-in-speed drawing made it possible, even with the molten glass growing stiffer, to make the entire length of these great cylinders more uniform in thickness. It will, of course, be seen that the application of this speed principle

to the mechanical process of drawing from a molten bath was novel, for, while the abstract principle of difference in speed as affecting thickness was known, an experienced man like Lubbers, confronted by failure of his valuable principles and patents by reason of the non-uniformity of his cylinder-walls, had not thought of any practical application of that principle to keep his cylinder-walls from thickening as they were drawn. His cylinders were becoming longer, but with the longer cylinder came the thickening of the glass. It was then that Chambers stepped in and applied the old, but unthought-of, principle to this new process, which was a drawing and not a blowing operation. Lubbers had formed the cylinder initially by blowing. He was getting a longer cylinder, but the increase in length was accompanied by an increase in thickness, and it was at this point that Chambers, by speeding up the drawing, helped to save the process from failure. The claims involved the limitation of drawing from a glass-bath. It was to the drawing art that Chambers applied in a novel way the principle, and contributed his important part in making the entire drawing system a success.

Conceding that the blower had a conception that the longer his article was made the thicker it became, we find no reason therefrom to minimize what Chambers did. The blower was dealing with a fixed quantity of glass, and he had a fixed thickness to get from that limited quantity of glass. He had the benefit of a swing to thin his glass as he operated it, and it was his practice to subject it to heat three different times during the blowing process. In the machine-drawing method, the problem was essentially different. There was no fixed quantity of glass to be operated on, but a pot filled with a molten mass which was liable to be drawn in thinner or thicker form, according to its heat. There was no method of recharging or reapplying the heat. The factors, therefore, which confronted Chambers in the drawing art, were altogether different from those of the blower, and Chambers met the problem by drawing small quantities of molten glass into the cylinder-zone during the earlier stages of the operation when the glass was at a higher heat, and compensated for the loss of heat, and the consequent larger thickness of glass drawn, by a more rapid drawing, which became rapid automatically, during the latter stages of the operation. It was a simple, novel, and effective means of meeting the difficulty. It was one of the links that made a chain of success possible. We are of opinion Chambers's patent was valid.

(7) The orderly consideration of the speed of drawing next brings us to consider the patent to Lubbers, No. 822,678. Chambers, as we have seen, in his patent just considered, had shown how the body of a long cylinder, which was to be cut into rollers, could be kept of uniform thickness while the draw was going on by gradually and automatically speeding up the draw of the cylinder-walls themselves. But, in addition to the necessity of regulating the draw of the main body of the cylinder, difficulties developed themselves in the cap at the top of the cylinder, and also in the lower part of the cylinder, just over the molten mass. These difficulties arose as an attempt was made to draw cylinders of longer length, for when such longer cylinders were attempted to be drawn it was found that the cap which had to support the whole weight of the cylinder gave way under the strain. Lubbers's solution of that problem was to use three speeds in the operation:

First, a low speed in drawing the cap. Regarding this feature, Lubbers says in his specification:

> I have also discovered that by using the lower speed in starting the drawing of the cylinder I can draw cylinders of a length equal to at least two or three of the cylinder rollers which had previously been blown by hand. I can thus draw a cylinder of several times the length of an ordinary roller, and then sever the cylinder at an intermediate point or points, to give rollers of a length desirable for flattening and working up.

It will thus be seen that the strengthening of the cap by slow drawing was an important factor in the development of the new art of drawing very long cylinders. Of the drawing of the main cylinder-body, Lubbers says:

> In drawing cylinders with this form of apparatus, the blowpipe is lowered into the bath and causes the glass to adhere thereto, and the pipe is then drawn up with a small amount of air admitted to form a neck portion 7. More air is then admitted to swell out the glass being drawn to the size of the cylinder desired, thus forming what is called the "cap." During the forming of the neck and the cap, and during the first part of the drawing of the cylinder proper, the drawing frame is lifted at slow speed by suitably controlling the fluid passed to the motor or in any other desirable manner.

Second, in drawing the main body of the cylinder, Lubbers speeded up the draw, preferably gradually, all of which were, of course, features also shown by Chambers. He says:

> After the cylinder proper is started, the speed of the drawing frame is increased, preferably gradually, until it reaches the full normal drawing speed, which may then be continued until the complete cylinder is drawn of the desired length.

When the end of the cylinder proper was reached, and it was desired to form the cylinder end which dipped into the molten glass, and which was to be "capped off" eventually from the main cylinder-body, Lubbers suggested that this cap or end should be drawn thin, so that it might be easily sheared or cut off and dropped back into the molten mass. To do this he changed to a third and still higher speed, saying in his specification of that operation:

> The speed is then increased to a considerable extent, such as to draw a thin portion of glass at the lower end, which may be easily severed from the glass in the tank by shearing, cutting off with the flame, or otherwise.

Referring to these three relative speeds, Lubbers points out his method of use as follows:

> The relative speeds which I prefer to employ are about as follows: If the motor gives about 100 revolutions per minute in drawing the first portion, I preferably increase this to about 600 revolutions in drawing the major portion of the cylinder length. The speed at the end to thin the glass is preferably much higher, preferably about 2,400 revolutions per minute. The speed which I have employed during the main drawing operation is about 30 inches per minute, with 600 revolutions. After cutting off, the drawing frame is lowered and the glass removed in the ordinary manner. By this method the cylinder is made stronger and thicker in the upper part, so as to support a long cylinder without breaking, and the change from the slow speed to faster speed is preferably gradual, so as to prevent excessive jerks which would injure the cylinder. I am thus enabled to draw a cylinder of at least two or three times the length of an ordinary hand-blown roller, which cylinder I then crack off at an intermediate point or points and cap off at its ends, thus forming several glass rollers or cylinders, which are cracked

longitudinally and flattened in the ordinary manner. By thus drawing a cylinder of more than ordinary length, I am enabled to increase the output and cheapen the product.

It will be observed that the gradual increase of speed during the second, or cylinder proper, process, was not original with Lubbers, but was disclosed by Chambers. But Lubbers proposed to use in combination with this second or main-cylinder-body drawing, and to use in one continuous operation, a lower speed in making his upper cap and a higher speed in making his lower cap, with the practical and commercial result of making the long cylinders, without which the process would have been a commercial failure.

The claims here involved do not cover the second or Chambers method, standing alone, but only in combination with the lower speed in forming the upper cap, which elements are embodied in claims 1, 2, 3, and 6, or in combination with the forming of the upper cap at lower speed and the lower cap at higher speed, which elements in combination are embodied in claims 5, 7, and 8. In connection with both the slower speed in the upper cap and the higher speed in the lower cap, this particular Lubbers patent showed new combinations which the lower court found were valid, a conclusion with which we concur.

(8) We have already seen that the problem of obtaining cylinders of substantially uniform thickness was effected by positive controlling agencies which involved (*a*) temperature, (*b*) the distending air, and (*c*) speed, and the patents on these separate elements have already been discussed. But in addition to these positive controlling agencies, which had to be devised, the development of this art disclosed serious and obscure other difficulties of apparently an inexplicable nature, which had to be eliminated, overcome, or neutralized. For example, the natural thing, of course, was to let the bait drop into the center of the pot and draw the glass from that point, but for some inexplicable reason it was found in practice that the cylinder as it was drawn began to shift from this central position in an unaccountable way, with the result of producing glass of uneven thickness on opposite sides of the cylinder. This difficulty was finally located, its cause explained, and the trouble caused thereby overcome by Lubbers in his Patent No. 914,588. Briefly stated, Lubbers found that the cooler portion of the molten glass has what is called a surface tension, or draw, of greater power than the hotter portion, and the tendency of this cooler and stronger portion was to shift the location of the bait from the center of the pot toward such cooler surface. Referring to this difficulty, in his patent Lubbers says:

> In such drawing operations it has been found difficult to make the glass of the same thickness in the different portions of the circumference of the hollow article. * * * The glass thus drawn is often of the "thick and thin" variety. This forming of thick and thin portions during the drawing operation is not only objectionable on account of the variations in thickness, but it causes a large amount of breakage, both during the drawing and the subsequent treatment. It also injures the quality of the glass, by making it very difficult to flatten properly, where cylinders are formed producing waste in cutting, and sometimes prevents cutting the glass in the desired way.

The cause of this shifting Lubbers explains in his patent as follows:

> I have found that where the glass is fed into a receptacle, for example, a refractory pot, the glass may be of a different temperature and stiffness in one portion of the pot from that in another portion, and the heat of the pot may vary in different parts thereof. There may also be variations in the character of the pot material in different portions of its walls, and other causes also lead to a difference in the surface tension in different parts of the article being drawn. I have found that, by adjusting the pot and drawing mechanism relatively to each other, I can reduce and avoid these difficulties to a large extent. With proper care in the adjusting, I can practically eliminate thick and thin glass and its consequent difficulties and objections. The importance of this will be understood when it is considered that in changing shifts of men all of the conditions surrounding the feeding of glass into the pot and the drawing operations are changed. These operations still depend to a considerable extent on the skill and familiarity of the workmen. For example, if the glass is ladled from the tank into the drawing pots, one operator may become accustomed to ladling the glass from a portion of the bath which is at a certain distance from the wall of the tank. His successor on the next shift may be accustomed to ladling from a different point in a different manner and under other conditions. For these reasons, it has been found that, where the drawing was proceeding in the proper manner with one ladler, it might draw in an entirely different manner with the next ladler. For some time it was not understood what caused this difference, which led to such important variations in the drawing of the glass. I have found that, by adjusting the pot and drawing tool or bait relatively to each other in a lateral direction, I can to a large degree compensate for these differences, owing to individual peculiarities in the workmen, and with proper care can practically eliminate thick and thin glass. Similarly, I can overcome the troubles arising from variations in the heat conditions and material of the pot.

To overcome these difficulties, Lubbers devised a simple drawing apparatus, by which the bait was made adjustable in lateral directions. When it was found that the bait and the cylinder were being drawn to one side by surface tension, he started the next draw a corresponding distance away from the center, so that the effect of the surface tension was to center the draw in the center of the pot and thus make a cylinder of uniform thickness. Speaking of his apparatus and of its method of use, Lubbers says:

> I thus obtain two horizontal adjustments at right angles to each other, by which I can bring the blowpipe or bait to any desired position relative to the walls of the pot. If, on starting a shift, it is found that the glass is drawing thick and thin upon a pot, I loosen the adjustable screws for the blowpipe support of this pot, and shift the position of the blowpipe to compensate for the differing conditions of tension at the different parts of the surface of the bath. For example, if the glass is of a lower temperature at one side of the bath than at the opposite side, the blowpipe will be moved toward the hotter side. The cooler and stiffer portion of the glass will have a greater surface tension than the hotter portion, and consequently by moving the blowpipe toward the hotter portion I can compensate for this difference in the condition. Similarly, if the cavity or wall of the pot is hotter on one side than the other, thus giving more heat to the glass, I move the bait correspondingly. It is found in practice that, by adjusting the position of the bait or blowpipe relative to the walls of the pot, the difficulties in drawing thick and thin glass are practically overcome. In practice this adjustment may be needed when a shift is changed, or it may be needed even while the same workmen are operating the apparatus. The occasion which calls for adjustment is easily recognized, and with a little practice the mode of adjusting is easily understood.

This surface-tension patent, three claims of which, claims 5, 6, and 7, are involved, the court below found valid, a conclusion that commends itself to us, for we feel that the location and discovery of this obscure phenomenon was a matter of great originality and value, and its solution, by the simple compensating, self-adjusting mechanism which Lubbers devised and covered by the claims in question, was a very material element in the success of the whole art of the successful machine-drawing of window-glass.

(9) In addition to the difficulties that arose and which had to be overcome in the drawing of the cylinder from the pot-center, all of which elements have been considered in the foregoing patents, difficulties were also encountered and had to be overcome in the treatment of the cylinder after it was drawn, namely, in getting it into a position where it could be handled and cut into rollers, and also in the apparatus for properly cutting it into rollers. The cutting of the upper cap off the cylinder, and the cutting of the cylinder-body itself into rollers of proper length, was accomplished by the device of Hitner for capping off glass cylinders, disclosed in his Patent No. 821,361, which was applied for March 6, 1905. It is, of course, true that previous to Hitner's device cylinders had been capped off by means of an electrically-heated wire. This wire was held in stationary position and the glass was moved toward it. This resulted in considerable waste, and the moving of a large cylinder in this way was obviously objectionable. Hitner devised a tool made up of a small heated wire of metal, of high electrical resistance, and of sufficient length to encircle the glass cylinder to be capped off. The leading-in wires were made flexible, so as to allow free movement of the device with relation to the stationary cylinder, and one of them was provided with a switch on the handle, by which an electric circuit could be made or broken, as desired by the operator. By the use of this device, the operator could loop the wire around the glass cylinder, and its free end passed around a roller, held by the finger or thumb of the operator. When the switch was turned on, the current rapidly heated the encircling wire, which heat was communicated to the cylinder and caused the narrow zone of glass near it to expand. When this heated ring of glass was tapped by a cold steel tool, the glass parted on the line spanned by the wire. The court below, however, found the patent was invalid, because it had been placed on sale more than two years before the application.

A study of the case has brought us to a different conclusion. As the application was filed on March 6, 1905, such sale and public use must have been prior to March 6, 1903. This would be during the period when the work of devising a window-glass-drawing-machine process and apparatus as a successful whole was in an experimental state, both at Alexandria and at Gas City. Now, while the capping-machine of Hitner was in substantial form the same from the start, and while it operated in the same way then as now, nevertheless we are convinced that at the time these machines were devised and made by the Doubleday-Hill Electric Company for the American Window Glass Company, and were paid for, that under the peculiar circumstances of this case said machine was still in an experimental stage, and such sale and use was not a public one in the sense of the statute. In the first place, the operations at both places were of a most secret nature. The machine was not made by the Doubleday-Hill Electric Company and sold to the American Window Glass Company in the ordinary commercial sense, but the American Window Glass Company, in order to have some electrical work, which it was not able to do itself, done by competent people, arranged with Doubleday-Hill Electric Company to furnish them with the services of Hitner, one of their employees. During the course of this employment, Hitner devised the capping-machine, and it was constructed by Doubleday-Hill & Company, his employer, under the orders and at the request of the American Window Glass Company. In substance, we regard the making of the machine as having been made really by the American Window Glass Company. But not only was this the case, but its use was not a public one. The plants were closed and the operations carried on in the most carefully-guarded way. Moreover, while this device was used, its use was wholly experimental, for success had not been reached in the manufacture of long cylinders, and the breakage and failure of the experiments up to that time were charged, *inter alia*, to this very Hitner capping device. It had not then justified itself, and its success and its freedom from blame for the troubles that undoubtedly then existed in the successful manufacture of long cylinders were not such as to warrent an application for it as a device which had passed the experimental stage. We are therefore unable to agree with the conclusions of the court below that Hitner's patent was invalid. On the contrary, we find that it was inventive in character and applied for in due time.

(10, 11) What we have said in a general way as to this patent of Hitner applies to his Patent No. 822,452 for a hoist. As stated earlier in this opinion, after the cylinder was drawn and swung out to a horizontal position in mid-air, it was lowered and cushioned on a long horse or stand that stood on the floor. The proofs in this case show that as the development went on several devices were tried for supporting such drawn cylinder, but none were satisfactory. Lubbers sought to form such a rest, but his took too much time and it was abandoned. Thornburg, also an experienced man, sought to solve the difficulty, but without success, and it remained for Bridge to develop an apparatus which had proved entirely satisfactory and for which Patent No. 1,006,995 was granted him. Without entering into minor details, we may say that his device consisted of a series of upright standards provided with semicircular arms, which were made resilient by the use of springs supported on arms which extended from the standard to the cross-piece which supported the semicircular hoops on which the cylinder rested. The arrangement of parts was such that, not only was the entire cylinder safely rested upon all the semicircular arms of the device when the cylinder was lowered, but as each roller was capped off and parted from the remainder of the cylinder, not only was the capped-off roller properly supported by the semicircular arms on which it rested, but the remainder of the cylinder remained safely nested on the remaining semicircu-

lar arms of the device. This device was only perfected after much experimenting. We are of opinion, with the court below, that the device involved invention, was novel and useful, and the patent was applied for within two years of its being perfected. We therefore agree with the court below that the claims in controversy, claims, 1, 2, and 4, are valid.

Turning to the question of infringement, we note the fact that prior to the patents in suit there were no apparatus or methods in existence for machine-drawing window-glass. It is therefore self-evident that the defendants' apparatus and method of machine-drawing window-glass, which is a commercial success, was not drawn from the prior art. There is no evidence that it was originated by themselves. There is evidence that some of those who helped install their plants had formerly been in the employ of the plaintiff company, and knew of its methods. It is therefore quite reasonable to infer that the successful devices of the complainant must have had a material influence in formulating the methods and apparatus which the defendants followed and used. In view of this situation, we are not surprised to find that, taken as a whole, the defendants copied and infringed the plaintiffs' process and apparatus, and this copying is in the main so apparent, if the plaintiffs' patents are held valid, that the conclusions reached by the court below are self-vindicating. We therefore refrain from a minute discussion of the question of infringement, with the exception of referring to the principal and basic element of whether the defendants used a forehearth from which they drew their glass. In that connection, we may say that the defendants' furnace and its mode of operation are aptly described in the opinion of the court below, from which we quote as follows:

> The defendants' tank furnace at Hazelhurst, previously used for hand blowers, was rebuilt and changed in 1908 from the hand-blowing tank to the machine tank. As reconstructed, the working end was considerably widened, thus giving extensions of the main tank. The construction of the Kane tank is the same. These extensions were partially separated from the tank proper, by a series of piers, drawing places being provided in the side extensions by lowering the roof over the drawing positions of the bath, and providing covers near to the glass level in the extensions. The heat currents in the main bath were vertically cut off from those shielded covers by "vertical shades" or clay plates resting on the piers which extended down near to the glass level. As thus constructed, the depth of the glass in these side extensions was less than that of the glass in the main tank; the floor being elevated or built up. Being partially separated from the furnace proper by the piers, the heat currents in the main bath to some extent cut off by the vertical shades, the depth of the glass being less than that in the main tank, bounded on one side by an outer side wall and on the other joined to the hot glass in the main tank, from which the glass on the same level flowed to the drawing station, these extensions present all the characteristics of the forehearth. I have here attached transverse and longitudinal sections of the working end of defendants' furnace, showing the side extensions and drawing stations, being copies of plaintiffs' Exhibit 68. Defendants' furnace structure is shown in a plaster model (defendants' Exhibit 30), the correctness of which seems to be conceded, except as to the stepping down of the pedestals in the drawing holes, which is correctly shown in the drawings attached. Similar extensions were also built at the end of the drawing portion of the tank. Four gas burners for each drawing station, were extended through holes in the side walls; the two outer burners being at right angles with the wall, and the intermediate ones being pointed in a converging angle toward the draw. These burners perform the same function as the burners in the Lubbers forehearth. The heat above the glass at the drawing stations coming from these burners and that entering from the main furnace was shielded from the drawing point, first by a vertically movable clay cylinder lowered through the top stone, and later by this cylinder coacting with a floating clay ring. One floating ring was first used, then two, and finally three, for each drawing place. Before the draw began, a ring was pulled into place by the operator, and the cylindrical clay shield was then lowered to make a joint with the floating ring, which largely cut off the surrounding heat and also centered and held the ring in position concentrically under the drawing hole. The draw then began and proceeded slowly, no water-cooled chilling ring being then employed; the glass being chilled solely by exposure to the atmosphere. Later a water-cooled chilling ring was added inside of the clay ring to increase the chilling effect, thus greatly increasing the speed of draw and the amount of production. Later, by proportioning the width and depth of the water chilling ring so that it extended from the top stone down substantially to the floating ring, it was found that the clay cylinder or anchor ring could be done away with. Since then the drawing has proceeded within the floating ring and up through the water-cooled shielding and chilling ring, which was not protected by a surrounding cylinder. Except in unimportant details, the operations of the Consolidated, the Pennsylvania, and the Kane Glass Companies were the same. In some cases the water ring was tilted according to the judgment of the operator. Sometimes the water ring had small centering lugs, which held the rings a fraction of an inch apart, and sometimes these were cut off, in which case the rings set close together.

From a study of the proofs, of the drawings and models, we conclude that the defendants, who had been previously drawing their glass from a tank and the body of the tank, saw fit to change both the construction and the mode of operation of their tank. Their change in construction consisted in adding to the side of the tank, at its working end, side chambers, into which the glass flowed from the main body of the tank, so that in this way they received a continuous and full supply of molten glass. The roof of this side structure was lower than the tank-roof. It was also shielded both from the direct effect of the burning of the generative gas in the tank proper and was measurably protected from the radiation of that heat, not only by its retired position and by its roof, but by the shields and heating-reducing devices employed in and about such side chamber. We are quite clear that this side structure of the defendants, from which they drew their glass, was the functional equivalent of Lubbers's forehearth. It had all the functional features which Lubbers first pointed out to the art in his forehearth. It was automatically fed from the main body of the tank. Its heat was less than the main body of the tank. It used shields and cooling-rings. It afforded a workable basis for drawing window-glass cylinders, and its structure was such as to allow the control and modification of heat, which were essential to the success of a machine-drawing system. Its location and relation to the tank were such that, while this side structure got the benefit of the whole maximum heat of the tank and of the whole molten product of the tank, those operating it were enabled to use only such ranges of the maximum heat as they needed to maintain proper glass-molten conditions, and yet were enabled to shield or shut off such portions of the tank as were harmful. In no sense of the word did the defendants in their reconstructed tank follow, either in function or physical effect, the old system of working from the tank proper; but they availed themselves in function and practice of Lubbers's forehearth in a modified form, which one of the plaintiffs' witnesses has happily called a "sheltered cove." We are quite clear that the judge committed no error in holding that defendants' side-tank practice was an infringement of Lubbers's patents.

As to those features of infringement which the court below did not pass upon, we deem it sufficient to say that, in view of what we have already said on the general subject of infringement, we feel that, in addition to what the court below found infringed, we are justified in also finding that claim 5 of Patent No. 702,014 to Lubbers, which we have before indicated was valid, was also infringed. We further find that claims 1 and 2 of patent to Chambers, No. 762,880, which we have before found valid, were also infringed. We also find that claims of the patent to Hitner, No. 821,361, for capping off glass cylinders, which we have heretofore found valid, were infringed. We also find the claims of Patent No. 822,452 to Hitner, for a hoist, which we have heretofore found valid, were also infringed. We also find that claims 20, 21, 23, 24, and 26 of the patent to Lubbers, No. 886,618, for a hole-vent, which we have found valid, were infringed.

With these additions and modifications, the decree of the court below will be affirmed, and in thus concurring in the conclusion reached by that court we place of record the fact that the work of the individual members of this court in understanding the complicated and difficult questions involved, in digesting the proofs, and in formulating their views have been greatly aided by the industry, patience, and research expended by Judge Thomson in the preparation of his able and exhaustive opinion.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mass.) The Ramage and Shaw patent, No. 958,174, for paper and process of grooving same, which covers a method of making hinged ledger-leaves by grooving the paper after the same is dry and before it is sized and calendered, *Held* not infringed by a process which operates upon the wet pulp. *Berkshire Hills Paper Co.* v. *Byron Weston Co.*, 262 Fed. Rep., 685.

Adverse Decisions in Interference.

PATENT NO. 1,315,444.

On March 26, 1920, a decision was rendered that John Wicks was not the first inventor of the subject-matter covered by claim 16 of his Patent No. 1,315,444, subject, "Telephone-exchange systems," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 1, 1920.

(ORDER NO. 2,561.)

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 21, Carriages and Wagons, (Division X,) abolish subclasses—

149. **Wheel substitutes—**
150. Portable track—
151. Annular.
227. Wheel-carried track,
228. Reciprocating horizontal track,

Wheel substitutes—
152. Steppers—
229. **Radial rotating legs,**
230. **Wheels with rim-carried feet.**

The patents formerly contained in these subclasses have been placed for the most part in class 305, Land-Vehicles—Wheel Substitutes, hereinafter established.

In class 180, Motor-Vehicles, (Division X,) establish the following subclasses and definitions:

Special driving device—
Portable track—
9.1. Endless, flexible—
9.2. Steering by **driving.**

9.1. SPECIAL DRIVING DEVICE, PORTABLE TRACK, ENDLESS, FLEXIBLE. Wherein the track is flexible and endless.

Note.—Compare this class, subclass 5.

Search Class—
305—LAND VEHICLES—WHEEL SUBSTITUTES, subclasses 3, Portable track, Endless, Wheeled-vehicle attachments; 4, Portable track, Endless, Frame-carried; 6, Portable track, Endless, Wheel-carried; 8, Portable track, Endless, Wheel-carried, Plural wheels, and the subclass indented thereunder, and 10, Portable track, Endless, Flexible tracks, for patents disclosing portable tracks of the type indicated where the patents claim parts of a motor-vehicle which are conventional.

9.2. SPECIAL DRIVING DEVICE, PORTABLE TRACK, ENDLESS, FLEXIBLE, STEERING BY DRIVING. Vehicle steered by varying the drive on one side.

The patents contained in these subclasses have been taken for the most part from class 180, Motor-Vehicles, subclass 9, Special driving device, Portable track.

In class 180, Motor-Vehicles, (Division X,) subclass 8, Special driving device, Stepper, change the first clause of the second note following the definition to read:

Compare class 305, LAND-VEHICLES—WHEEL SUBSTITUTES, subclass 11, Steppers, and the subclasses indented thereunder.

In same class, subclass 9, Special driving device, Portable track, cancel the notes following the definition and substitute therefor:

Compare class 305, LAND-VEHICLES—WHEEL SUBSTITUTES, subclass 2, Portable track, for patents disclosing portable tracks where the patents claim parts of a motor-vehicle which are conventional.

In same class, subclass 10, Special driving device, Portable track, Annular, change the second note following the definition to read:

Compare class 305, LAND-VEHICLES—WHEEL SUBSTITUTES, subclasses 5, Portable track, Endless, Frame-carried, Annular, and 7, Portable track, Endless, Wheel-carried, Annular, for patents disclosing portable tracks of the type indicated where the patents claim parts of a motor-vehicle which are conventional.

In same class, subclass 17, Steering by driving, change the note following the definition to read:

Compare this class, subclass 9.2.

Establish, in Division X, class 305, Land Vehicles—Wheel Substitutes, with the following subclasses and definitions, the patents contained in this class having been taken for the most part from class 21, Carriages and Wagons, subclass 149, Wheel substitutes, and the subclasses indented thereunder, hereinbefore abolished, and class 180, Motor-Vehicles, subclasses 8, Special driving device, Stepper; 9, Special driving device, Portable track, and 10, Special driving device, Portable track, Annular:

305.—LAND-VEHICLES—WHEEL SUBSTITUTES.
1. **Miscellaneous.**
2. **Portable track—**
Endless—
3. Wheeled-vehicle attachments,
4. Frame-carried—
5. Annular,
6. Wheel carried—
7. Annular,
8. Plural wheels—
9. Intermediate supporting frame,
10. Flexible tracks.
11. **Steppers—**
12. Radial rotating legs,
13. Wheels with rim-carried feet.

R. F. WHITEHEAD,
Acting Commissioner.

Changes in Classification.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 1, 1920.

(ORDER NO. 2,562.)

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 20, Wooden Buildings, (Division XLVI,) abolish the following subclasses with their definitions:

Scaffolds—
81. Miscellaneous,
81.5. Elevating—
81.6. Swinging,
81.7. Trestles,
87. Window,

304.—SCAFFOLDS.
1. **Miscellaneous.**
2. **Self-sustaining—**
3. Ladder type,
4. Independent standards,
5. Trestles—
6. Extensible,
7. Extending mechanism.
8. Crossed-leg type.
9. **Traveling.**
10. **Building propped—**
11. Strut and bracket.
12. **Work surrounded.**
13. **Work surrounding.**
14. **Building-wall carried.**

304.—SCAFFOLDS—Continued.
15. **Suspended—**
16. Rope,
17. Traveling,
18. Elevating,
19. Suspending devices.
20. **Roofing—**
21. Wheeled,
22. Grip-jaw,
23. Ridge-engaging.
24. **Window—**
25. With steps,
26. Extensible,
27. Outside supporting-strut.
28. **Pole and tree platforms.**

304.—SCAFFOLDS—Continued.
29. **Elevating-platforms—**
30. Brackets—
31. Ladder.
32. **Details—**
33. Brackets—
34. Ladder—
35. Reversible,
36. Stile-carried,
37. Posts and struts,
38. Platforms,
39. Putlogs,
40. Binders—
41. Flexible

Scaffolds—
82. Swinging,
83. Trestles,
84. Brackets—
86. Shingling,
85. Ladder,
88. Binders.

The patents formerly contained in these subclasses have been placed for the most part in class 304, Scaffolds, hereinafter established.

Establish, in Division XLVI, class 304, Scaffolds, with the following subclasses and definitions, the patents contained in this class having been taken for the most part from class 20, Wooden Buildings, the subclasses indented under "Scaffolds," hereinbefore abolished:

R. F. WHITEHEAD, *Acting Commissioner.*

Changes in Classification.

(ORDER NO. 2,564.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 15, 1920.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 287, Rod Joints or Couplings, (Division XXIX,) establish the following subclass and definition:

Rod to base, plate or head—
20.5. Bent or headed rod.

20.5. ROD TO BASE, PLATE OR HEAD, BENT OR HEADED ROD. Joint between rod or bar ends and some other member not a rod and in which the rod end is bent or headed to form the joint.

The patents contained in this subclass have been taken from class 74, Machine Elements, subclass 17, Pitmen.

J. T. NEWTON,
Commissioner

Changes in Classification.

(ORDER NO. 2,566.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, April 20, 1920.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 141, Washing Apparatus, (Division XXVII,) establish subclass—

1. Miscellaneous.

The patents contained in this subclass have been taken for the most part from class 141, Washing Apparatus, subclass 7, Bottle and Can Washers.

J. T. NEWTON,
Commissioner.

INDEX

TO THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

APRIL, 1920.

(Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*) and of the United States Circuit Court of Appeals by the letter d.)

TABLE OF CASES.

	Page.
dÆolian Co. v. Schubert Piano Co	186
Bethke v. Scannell	185
dConsolidated Window Glass Co. v. Window Glass Mach. Co. *et al*	807
*Dickinson v. Swinehart	407
*Duncan v. Shelly	409
*Hollingshead Co., The R. M., v. Area Manufacturing Co	408
*Phillips v. Hudnut and Mack	629
*Roberts. *In re*	410
*Scannell v. Bethke	186
*Waltke & Company, William, v. Geo. H. Schafer & Company	630
*Wegner v. Bobbitt	629

SUBJECT-MATTER INDEX.

Page.

Abandoned experiment, long delay in applying for patent and abandonment of experimental device, loses right to assert priority, *Duncan v. Shelly 409

Applications, to change joint to sole when one applicant has admitted that he was not an inventor, but was included by mistake, with no fraudulent intent, no reason seen for refusing amendment eliminating superfluous applicant, *in re* Roberts 410

Construction of specifications and patents, Bridge, No. 1,006,995; Chambers, No. 782,880; Hitner, Nos. 821,361 and 822,452; Lubbers Nos. 702,013-702,015, 822,678, 886,618, and 914,586, all for window-glass manufacture, valid and infringed, dConsolidated Window Glass Co. v. Window Glass Mach. Co. *et al* 807

Constructive reduction to practice, process clearly disclosed in application for apparatus, Bethke v. Scannell 185

Date of filing, sole application of one of two parties who filed joint application by mistake entitled to date of original, sole application being a continuation, *in re* Roberts 410

Financial inability, not proven when applicant, with no dependents, employed most of the time, could buy a motorcycle and pay for it in monthly instalments, *Duncan v. Shelly 409

Joint applicants, two applicants file and while application is pending one applicant admits having taken no part in inventive act, but was joined in application by mistake, sole application filed by the other is entitled to date of filing of original, *in re* Roberts 410

Priority of adoption and use, evidence sufficient to prove, *The R. M. Hollingshead Co. v. Area Manufacturing Co 408

Priority of invention, award, *Scannell v. Bethke 186

Conception of invention, reduction to practice, and diligence prior to entrance in field of opponent shown by evidence, Bethke v. Scannell 185

Particular patents, Thomson, No. 841,356, music-sheet guide, fair construction and reasonable range of equivalents given patentable improvement on prior devices, dÆolian Co. v. Schubert Piano Co 186

Reduction to practice, reasonable diligence under the circumstances only, required, neither concentration of all energies, nor uninterrupted effort necessary, *Dickinson v. Swinehart 407

Quære: Is it necessary in a certain process case to test the product, *Dickinson v. Swinehart 407

Page.

Rules of the Court of Appeals District of Columbia, brief not filed in time (Rule 8, sec. 4,) motion to dismiss appeal, *Wegner v. Bobbitt 629

Suit for infringement, though the defendant's goods had been on market appellant not barred by laches from bringing suit, dÆolian Co. v. Schubert Piano Co 186

Trade-marks, identity of mark tested not by meaning of the words but by the sound and appearance, *William Waltke & Company v. Geo. H. Schafer & Company 630

In opposition proceedings, showing only, of confusion or mistake by public necessary, establishment of damages not required, *William Waltke & Company v. Geo. H. Schafer & Company 630

Property rights established by use, not by mere adoption, mark must be applied to some vendible commodity and put upon the market, *Phillips v. Hudnut and Mack 629

Right to register doubtful by reason of previously-acquired rights, decision should be against the later comer, who had an unlimited field from which to select, and has therefore no excuse for encroaching upon prior rights, *William Waltke & Company v. Geo. H. Schafer & Company 630

Soap and shaving-cream goods of same descriptive properties, *William Waltke & Company v. Geo. H. Schafer & Company 630

The word "Lava," for soap, not descriptive of properties, *William Waltke & Company v. Geo. H. Schafer & Company 630

"U-Lavo," for shaving-cream, conflicts with the word "Lava," for toilet soap, *William Waltke & Company v. Geo. H. Schafer & Company 630

Three parties to interference proceedings, priority awarded to one, another appealing not entitled to question award as between the other two, *Phillips v. Hudnut and Mack 629

What constitutes is defined by common law and not by trade-mark statutes, *Phillips v. Hudnut and Mack 629

DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

APRIL, 1920.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*) and of the United States Circuit Court of Appeals by the letter c.]

ABANDONED EXPERIMENTS.

See Priority of Invention, 3.

ACQUISITION.

See Trade-Marks, 2, 3.

AMENDMENTS.

See Joint Application, One Applicant Not Inventor, 2.

ANTICIPATION.

See Construction of Specifications and Patents, 1, 4.

APPARATUS.

See Construction of Specifications and Patents, 2, 3, 5; Diligence, 2; Particular Patents, 1, 5, 6; Reduction to Practice, 1.

APPEAL TO THE COMMISSIONER OF PATENTS.

See Trade-Marks, 5.

APPEAL TO THE COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Trade-Marks, 4.

DISMISSED FOR FAILURE TO FILE BRIEF.

Motion to dismiss an appeal for failure to file a brief within the time specified granted under Rule 8 (sec. 4 *b*) of the Rules of the Court of Appeals of the District of Columbia.

[*Wegner v. Bobbitt, 629.

APPLICATIONS.

See Joint Application, One Applicant Not Inventor; Reduction to Practice, 1, 3.

BRIEF.

See Appeal to the Court of Appeals of the District of Columbia.

CANCELATION OF TRADE-MARK REGISTRATION.

See Trade-Marks, 5.

COMMON LAW.

See Trade-Marks, 3.

CONCEPTION OF INVENTION.

See Diligence; Priority of Invention, 1, 3.

CONFUSION OF THE PUBLIC.

See Trade-Marks, 9, 10.

CONSTRUCTION OF SPECIFICATIONS AND PATENTS.

See Particular Patents.

1. ANTICIPATION—PRIOR UNSUCCESSFUL DEVICE NOT AN ANTICIPATION.

Patents for a machine and process for drawing glass for windows mechanically are not anticipated by patents for earlier and abortive devices and methods where the patents in suit were the first that were successful, and such patents must be given a broad and liberal construction, the inventors being pioneers in the art. [cConsolidated Window Glass Co. *v.* Window Glass Mach. Co. *et al.*, 807.

2. MECHANICAL DRAWING OF GLASS—PATENT VALID AND INFRINGED.

The Lubbers divisional patent, No. 702,015, which showed the use, in connection with his shield in the forehearth, of floating rings, all of which apparatus was used for the mechanical drawing of glass, *Held* valid and infringed. [cId.

3. EVIDENCE OF INVENTION—SIMPLICITY OF DEVICE.

The Lubbers patent, No. 886,618, for an air-vent hole in an apparatus for mechanically drawing glass, claims 20, 21, 23, 24, and 26 *Held* to involve an invention of a high order. "The simplicity of the use of an open vent, which simplicity is cited as evidence of lack of invention, to our minds shows the high order of novelty and invention, in thus making use of a simple opening, instead of complicated mechanical appliances, in order to accomplish a really remarkable result." [cId.

4. ANTICIPATION—METHOD OF BLOWING GLASS BY MECHANICAL MEANS NOT ANTICIPATED BY HAND-BLOWING METHODS.

Claim 5 of the Lubbers patent, No. 702,014, for a method of forming hollow glass articles, *Held* to be physically and functionally different from the hand-blowing method of the prior art, in which the hand-blower took advantage of a swinging motion imparted to the article and of gravity, while according to the method of the claim an increased air-supply was relied upon. [cId.

5. IMPROVEMENT OF APPARATUS FOR DRAWING GLASS—VALID AND INFRINGED.

The Lubbers patent, No. 886,618, for an air-vent hole in the apparatus for mechanically drawing glass, the application for which was filed May 21, 1903, and which was granted May 5, 1908, after the patentee, at the suggestion of the Patent Office, later made a divisional application of that patent, applying for Patent No. 1,020,920, and filing nearly three years later additional claims for his original patent, *Held* valid, it appearing that the whole art was in a state of flux and experiment and it being impossible to say with definiteness that Lubbers had satisfactorily worked out the open-vent solution more than two years in advance of his application. [cId.

DAMAGES.

See Trade-Marks, 10.

DATE OF FILING APPLICATION.

See Diligence, 2; Joint Application, One Applicant Not Inventor, 1; Priority of Invention, 3; Reduction to Practice, 3.

DELAY IN BRINGING SUITS FOR INFRINGEMENT.

See Suits for Infringement.

DESCRIPTIVE TERMS.

See Trade-Marks, 6.

DILIGENCE.

See Priority of Invention, 1, 3.

1. INTERFERENCE.
The diligence required of one first to conceive and last to reduce to practice need not be extraordinary. "It needs to be only reasonable under the circumstances of the case, nor does it 'involve uninterrupted effort nor the concentration' of all the applicant's energies upon the single enterprise."
[*Dickinson *v.* Swinehart, 407.

2. SAME.
D. conceived the invention in August, 1912, disclosed it in November, 1912, and immediately after the disclosure caused a draftsman to commence work on drawings for a machine. D. was obliged to be away from his home for a considerable period from March, 1913, to February, 1914, but during this time draftsmen were working on drawings under his directions, and a model apparatus for producing the process of the invention was completed in June, 1914. D.'s application was filed on February 26, 1915. S. alleges conception and disclosure in February, 1913, and filed his application on December 16, 1914. *Held* that D. was not lacking in diligence. [*Id.

DISCLOSURE OF INVENTION.

See Diligence, 2; Reduction to Practice, 1.

DIVISIONAL APPLICATIONS.

See Construction of Specifications and Patents, 2, 5.

DRAWINGS.

See Diligence, 2.

EQUIVALENTS.

See Particular Patents, 9.

ERROR.

See Trade-Marks, 5.

EVIDENCE.

See Construction of Specifications and Patents, 3; Priority of Invention, 1, 2; Trade-Marks, 1.

EXPERIMENTAL DEVICE.

See Priority of Invention, 3.

FAILURE TO FILE APPLICATION.

See Reduction to Practice, 3.

FORMER DECISIONS CITED.

See Trade-Marks, 3, 6.

GOODS OF THE SAME DESCRIPTIVE PROPERTIES.

See Trade-Marks, 7.

INFRINGEMENT.

See Construction of Specifications and Patents, 2, 5; Particular Patents, 2, 3, 4, 5, 6, 7, 8, 9.

INTERFERENCE.

See Diligence; Priority of Invention; Reduction to Practice; Trade-Marks, 4, 5.

INVENTION.

See Construction of Specifications and Patents, 3.

JOINT AND SOLE APPLICATION.

See Joint Application, One Applicant Not Inventor.

JOINT APPLICATION, ONE APPLICANT NOT INVENTOR.

1. APPLICATION—SOLE APPLICATION MAY TAKE BENEFIT OF FILING DATE OF PRIOR JOINT APPLICATION.
Where an application is filed by two parties as joint inventors, but during its pendency one of the joint applicants admitted that he had no part in the act of invention and it appears that he was joined as a coinventor through inadvertence and mistake and without fraudulent intent, a sole application afterward filed by the other joint applicant for the same subject-matter is entitled to the benefit of the filing date of the joint application.
[**In re* Roberts, 410.

2. SAME—SAME—CHANGING JOINT TO SOLE APPLICATION.
Where during the pendency of a joint application it is admitted by one of the joint applicants that he had no part in the act of invention and it appears that he was joined as a coinventor through inadvertence and mistake and without fraudulent intent, "it is difficult to perceive any reason for not permitting the rectification of such a mistake, by an amendment eliminating the superfluous applicant."

LACHES.

See Suits for Infringement.

LIMIT OF TIME.

See Appeal to the Court of Appeals of the District of Columbia.

MISTAKE.

See Joint Application, One Applicant Not Inventor.

MOTION TO DISMISS APPEAL.

See Appeal to the Court of Appeals of the District of Columbia.

NOVELTY.

See Construction of Specifications and Patents, 3.

OPPOSITION TO REGISTRATION OF TRADE-MARKS.

See Trade-Marks, 10.

PARTICULAR PATENTS.

See Construction of Specifications and Patents.

1. BRIDGE—NO. 1,006,995—HOLDING GLASS CYLINDERS—VALID AS TO CERTAIN CLAIMS.
The Bridge patent, No. 1,006,995, for an apparatus for holding the large mechanically-drawn glass cylinders, which was fit for use when the cylinders were divided into segments, *Held* valid as to claims 1, 2, and 4.
[dConsolidated Window Glass Co. *v.* Window Glass Mach. Co. *et al.*, 807.

2. CHAMBERS—NO. 782,880—METHOD OF DRAWING GLASS—VALID AND INFRINGED.
The Chambers patent, No. 782,880, for a method for gradually increasing the speed of the drawing operation for the mechanical drawing of glass, *Held* valid and infringed. [*Id.

3. HITNER—NO. 821,361—CAPPING GLASS CYLINDERS—VALID AND INFRINGED.
The Hitner patent, No. 821,361, for a device for capping off glass cylinders, *Held* valid despite the contention that it had been placed on sale more than two years before application, and also *Held* infringed. [dId.

4. SAME—NO. 822,452—HOISTING DEVICE—PATENT VALID AND INFRINGED.
The Hitner patent, No. 822,452, for a hoisting device to move large cylinders of glass mechanically drawn, *Held* valid and infringed. [dId.

5. LUBBERS—NOS. 702,013 AND 702,014—DRAWING WINDOW-GLASS—VALID AND INFRINGED.
The Lubbers patent, No. 702,013, claims 1, 2, 3, 5, 8, 9, 10, 12, 13, 15, 16, 17, and 18, as well as Patent No. 702,014, claims 2, 3, 4, 5, 8, 9, 11, and 13, the first of which was for an apparatus for mechanically drawing window-glass and the latter being a method patent, *Held* valid and infringed. [dId.

6. SAME—NO. 886,618—DRAWING GLASS—PATENT VALID AND INFRINGED.
The Lubbers patent, No. 886,618, for an air-vent hole in the apparatus for mechanically drawing glass, claims 20, 21, 23, 24, and 26 *Held* valid and infringed. [dId.

7. SAME—NO. 822,678—REGULATING SPEED OF DRAWING GLASS—VALID AND INFRINGED.
The Lubbers patent, No. 822,678, for a method of regulating the speed for the mechanical drawing of glass, *Held* valid and infringed. [dId.

8. SAME—NO. 914,586—REGULATING DRAWING OF GLASS—VALID AND INFRINGED.
The Lubbers patent, No. 914,586, for an appliance to regulate the mechanical drawing of glass, so that the surface tension on the bait would be equalized, *Held* valid and infringed. [dId.

9. THOMSON—NO. 841,356—MUSIC-SHEET GUIDE—VALID AND INFRINGED.
The Thomson patent, No. 841,356, for a music-sheet-guiding device for mechanical piano and organ players, *Held* to cover a patentable improvement on prior devices and entitled to a fair construction and a reasonable range of equivalents; also *Held* infringed. [dÆolian Co. *v.* Schubert Piano Co., 186.

PATENTABILITY.

See Particular Patents, 9.

POVERTY.

See Reduction to Practice, 3.

PRIORITY OF ADOPTION AND USE.

See Trade-Marks, 1, 4, 5.

PRIORITY OF INVENTION.

1. EVIDENCE—DILIGENCE—REDUCTION.
Evidence considered and *Held* that B. was the first to conceive the invention in issue and the first to reduce it to practice; also, that he was diligent just prior to S.'s entry into the field and up to the time when he constructively reduced it to practice.
[Bethke *v.* Scannell, 185.

2. INTERFERENCE—EVIDENCE—AWARD.
Evidence considered and *Held* that priority of invention was properly awarded by the lower tribunals to Bethke.
[*Scannell *v.* Bethke, 186.

3. ABANDONMENT OF FIRST EXPERIMENTAL DEVICE.
Where S. constructed an experimental device relating to phonograph-stops in May, 1914, and tested it, but dismantled it and admitted that he had no intention of using it again, and soon thereafter caused an application to be prepared, but did not file it, although he was able to do so, and did nothing further until February, 1916, when he built a second device, which was submitted to a company interested in such attachments, which purchased the invention in March, 1916, after they had experimented with the invention of D., the other party to the interference, and caused S.'s application to be filed on April 5, 1916, *Held*, without determining whether S.'s device of 1914 was a reduction to practice, that S. is not entitled to prevail over D., who conceived in May and reduced to practice in June, 1914, and filed his application on April 21, 1915, since he lost his right to assert priority over D. by his long delay and conduct in abandoning his experimental device. [*Duncan *v.* Shelly, 409.

PROCESS.

See Construction of Specifications and Patents, 1; Diligence, 2; Reduction to Practice, 1, 2.

PROPERTY RIGHTS.

See Trade-Marks, 2.

PUBLIC USE AND SALE.

See Particular Patents, 3.

REDUCTION TO PRACTICE.

See Diligence; Priority of Invention, 1, 3.

1. INTERFERENCE—APPLICATION FOR APPARATUS CONSTRUCTIVE REDUCTION TO PRACTICE OF PROCESS.
An application for an apparatus clearly disclosing a process is a constructive reduction to practice of the process.
[Bethke *v.* Scannell, 185.

2. SAME—PROCESS—NECESSITY OF TESTING PRODUCT PRODUCED.
Quære: Whether the practice of a process for making a cord tire which involved "winding the cord spirally around a support to reduce a fabric web, and thereafter shifting said cord to change the angle of the cord element relative to the sides of said web," without embodying the web so formed into a tire, is a reduction to practice. [*Dickinson *v.* Swinehart, 407.

3. EXCUSE FOR FAILURE—POVERTY.
A claim of financial inability to file an application for patent *Held* not sustained where it appears that during the period of such alleged inability the inventor had no one dependent upon him, was employed most of the period, and purchased a motorcycle and was paying for the same in monthly instalments.
[*Duncan *v.* Shelly, 409.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks, 11.

RIGHT TO ASSERT PRIORITY.

See Priority of Invention, 5.

RULES OF THE COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Appeal to the Court of the District of Columbia.

SIMILARITY OF TRADE-MARKS.

See Trade-Marks, 8, 9.

SOLE APPLICANT.

See Joint Application, One Applicant Not Inventor.

STATE OF THE ART.

See Construction of Specifications and Patents, 1, 4, 5; Particular Patents, 9.

SUGGESTIVE TERMS.

See Trade-Marks, 6.

SUITS FOR INFRINGEMENT.

NOT BARRED BY LACHES.
A delay of four or five years after defendant's device was placed on the market *Held* not such laches as barred a suit for infringement. [dÆolian Co. *v.* Schubert Piano Co., 186.

TEST.

See Priority of Invention, 3; Reduction to Practice, 2; Trade-Marks, 9.

TRADE-MARK RIGHTS.

See Trade-Marks, 3, 7, 11.

TRADE-MARK USE.

See Trade-Marks, 2, 3, 4, 5, 7.

TRADE-MARKS.

1. PRIORITY—EVIDENCE OF PRIORITY.
Where appellant, The R. M. Hollingshead Co., proved use of the mark "Gear Life" for lubricating compounds not earlier than April, 1916, and a witness on behalf of appellee, the Area Manufacturing Co., testified that in August, 1915, packages of grease were shipped bearing this mark stenciled thereon, and way-bills of shipments were produced, though not referring to the mark, and a traveling salesman testified that he took orders for "Gear Life" compound between February 1, 1916, and the following May, and that during this time he stenciled the mark on packages containing the compound and gave the names of parties to whom the goods were sold, which evidence was corroborated by other witnesses, and appellant did not avail himself of the opportunity to call any of the parties referred to in the way-bills or to whom the goods were alleged to have been sold, *Held* that the evidence was sufficient to prove priority of use by appellee.
[*The R. M. Hollingshead Co. *v.* Area Manufacturing Co., 408.

2. ACQUISITION—EXTENT OF USE NECESSARY.
The use of a mark on a few sample-boxes of toilet powder, three of which were consigned to dealers in different parts of the country without previous request by them, for which there was paid only five cents for a box intended to sell at fifty cents, does not constitute such a use of the mark as to establish any property rights therein. [*Phillips *v.* Hudnut and Mack, 629.

3. SAME—GENERAL RULES AS TO ACQUISITION.
The common law, and not the trade-mark statutes, defines what constitutes a trade-mark. The trade-mark recognized by the common law is generally the outgrowth of a considerable period of use rather than a sudden invention. The exclusive right to it grows out of its use and not its mere adoption. (*Trade Mark Cases*, 16 O. G., 999; 100 U. S., 82, 84.) The trader must apply the mark to a vendible commodity and must actually put the commodity so marked on the market. [*Id.

4. APPEAL AND ERROR—QUESTIONS FOR REVIEW.
In a trade-mark interference proceeding involving the three parties H., M., and P., where it is adjudged by the Patent Office that H. was the first to adopt and use the mark, on appeal by P. to the court of appeals he is not entitled to be heard on the question whether the decision properly awarded priority to H. over M. [*Id.

5. SAME—REVIEW OF QUESTION NOT APPEALED.
In a three-party interference involving the application of H. and the registrations of M. and P., the Examiner of Interferences held that the marks were the same and awarded priority to H. After the decision was announced H. filed a motion requesting the Examiner of Interferences to adjudge that P. was not entitled to the use of the mark at the date of his application for registration, which was denied, from which H. failed to appeal. On P.'s appeal the Commissioner reviewed this action and reversed it, ordering the cancelation of P.'s registration. This was error, as H. did not appeal, and the question was therefore not before the Commissioner. [*Id.

6. "LAVA," FOR SOAP, NOT DESCRIPTIVE.
The word "Lava," for soap, *Held* not descriptive. It may suggest the function of soap, being derived from "lavare," to wash, and meaning, in English, fluid rock; but it does not describe its properties. (*In re Stephens-Adamson Mfg. Co.*, 272 O. G., 181; 49 App. D. C. —.)
[*William Waltke & Company *v.* Geo. H. Schafer & Company, 630.

7. GOODS OF THE SAME DESCRIPTIVE PROPERTIES—SOAP AND SHAVING-CREAM.
The owner of a mark for toilet soap has a right to extend it to shaving-cream, since in the popular mind a shaving-cream is a soap. [*Id.

8. IDENTITY OF MARKS—"U-LAVO" SIMILAR TO "LAVA."
The word "U-Lavo" conflicts with "Lava," the prefix "U-" being only an arguable distinction which is not sufficient.
[*Id.

9. SAME—GENERAL TEST OF IDENTITY.
The test of the identity of trade-marks is not whether the words mean the same thing, but whether they are so similar in sound and appearance as to lead the public to believe that the goods on which they appear had a common origin. Conflict exists where a purchaser seeing only one and relying upon his memory of the other would likely fail to recognize the distinction, although he would do so could he see the two together. [*Id.

10. OPPOSITION—NOT NECESSARY TO SHOW DAMAGE TO OPPOSER.
In order to succeed in a trade-mark opposition proceeding, it is not necessary that opposer establish damages, it being sufficient to show likelihood of confusion or mistake in the mind of the public. [*Id.

11. REGISTRATION—DOUBTS RESOLVED AGAINST NEWCOMER.
Where there is doubt as to the right to register a mark in view of rights previously acquired, it should be resolved against the newcomer, since there is no excuse for a later comer to impinge upon prior rights in view of the unlimited field from which a mark may be selected. [*Id.

VALID PATENTS.

See Construction of Specifications and Patents, 2, 5; Particular Patents.

WITNESSES.

See Trade-Marks, 1.

5. LUBBERS—NOS. 702,013 AND 702,014—DRAWING WINDOW-GLASS—VALID AND INFRINGED.
The Lubbers patent, No. 702,013, claims 1, 2, 3, 5, 8, 9, 10, 12, 13, 15, 16, 17, and 18, as well as Patent No. 702,014, claims 2, 3, 4, 5, 8, 9, 11, and 13, the first of which was for an apparatus for mechanically drawing window-glass and the latter being a method patent, *Held* valid and infringed. [*Id.

6. SAME—NO. 886,618—DRAWING GLASS—PATENT VALID AND INFRINGED.
The Lubbers patent, No. 886,618, for an air-vent hole in the apparatus for mechanically drawing glass, claims 20, 21, 23, 24, and 26 *Held* valid and infringed. [*Id.

7. SAME—NO. 822,678—REGULATING SPEED OF DRAWING GLASS—VALID AND INFRINGED.
The Lubbers patent, No. 822,678, for a method of regulating the speed for the mechanical drawing of glass, *Held* valid and infringed. [*Id.

8. SAME—NO. 914,586—REGULATING DRAWING OF GLASS—VALID AND INFRINGED.
The Lubbers patent, No. 914,586, for an appliance to regulate the mechanical drawing of glass, so that the surface tension on the bait would be equalized, *Held* valid and infringed. [*Id.

9. THOMSON—NO. 841,356—MUSIC-SHEET GUIDE—VALID AND INFRINGED.
The Thomson patent, No. 841,356, for a music-sheet-guiding device for mechanical piano and organ players, *Held* to cover a patentable improvement on prior devices and entitled to a fair construction and a reasonable range of equivalents; also *Held* infringed. [*Æolian Co. *v.* Schubert Piano Co., 186.

PATENTABILITY.

See Particular Patents, 9.

POVERTY.

See Reduction to Practice, 3.

PRIORITY OF ADOPTION AND USE.

See Trade-Marks, 1, 4, 5.

PRIORITY OF INVENTION.

1. EVIDENCE—DILIGENCE—REDUCTION.
Evidence considered and *Held* that B. was the first to conceive the invention in issue and the first to reduce it to practice; also, that he was diligent just prior to S.'s entry into the field and up to the time when he constructively reduced it to practice.
[Bethke *v.* Scannell, 185.

2. INTERFERENCE—EVIDENCE—AWARD.
Evidence considered and *Held* that priority of invention was properly awarded by the lower tribunals to Bethke.
[*Scannell *v.* Bethke, 186.

3. ABANDONMENT OF FIRST EXPERIMENTAL DEVICE.
Where S. constructed an experimental device relating to phonograph-stops in May, 1914, and tested it, but dismantled it and admitted that he had no intention of using it again, and soon thereafter caused an application to be prepared, but did not file it, although he was able to do so, and did nothing further until February, 1916, when he built a second device, which was submitted to a company interested in such attachments, which purchased the invention in March, 1916, after they had experimented with the invention of D., the other party to the interference, and caused S.'s application to be filed on April 5, 1916, *Held*, without determining whether S.'s device of 1914 was a reduction to practice, that S. is not entitled to prevail over D., who conceived in May and reduced to practice in June, 1914, and filed his application on April 21, 1915, since he lost his right to assert priority over D. by his long delay and conduct in abandoning his experimental device. [*Duncan *v.* Shelly, 409.

PROCESS.

See Construction of Specifications and Patents, 1; Diligence, 2; Reduction to Practice, 1, 2.

PROPERTY RIGHTS.

See Trade-Marks, 2.

PUBLIC USE AND SALE.

See Particular Patents, 3.

REDUCTION TO PRACTICE.

See Diligence; Priority of Invention, 1, 3.

1. INTERFERENCE—APPLICATION FOR APPARATUS CONSTRUCTIVE REDUCTION TO PRACTICE OF PROCESS.
An application for an apparatus clearly disclosing a process is a constructive reduction to practice of the process.
[Bethke *v.* Scannell, 185.

2. SAME—PROCESS—NECESSITY OF TESTING PRODUCT PRODUCED.
Quære: Whether the practice of a process for making a cord tire which involved "winding the cord spirally around a support to reduce a fabric web, and thereafter shifting said cord to change the angle of the cord element relative to the sides of said web," without embodying the web so formed into a tire, is a reduction to practice. [*Dickinson *v.* Swinehart, 407.

3. EXCUSE FOR FAILURE—POVERTY.
A claim of financial inability to file an application for patent *Held* not sustained where it appears that during the period of such alleged inability the inventor had no one dependent upon him, was employed most of the period, and purchased a motorcycle and was paying for the same in monthly instalments.
[*Duncan *v.* Shelly, 409.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks, 11.

RIGHT TO ASSERT PRIORITY.

See Priority of Invention, 5.

RULES OF THE COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Appeal to the Court of the District of Columbia.

SIMILARITY OF TRADE-MARKS.

See Trade-Marks, 8, 9.

SOLE APPLICANT.

See Joint Application, One Applicant Not Inventor.

STATE OF THE ART.

See Construction of Specifications and Patents, 1, 4, 5; Particular Patents, 9.

SUGGESTIVE TERMS.

See Trade-Marks, 6.

SUITS FOR INFRINGEMENT.

NOT BARRED BY LACHES.
A delay of four or five years after defendant's device was placed on the market *Held* not such laches as barred a suit for infringement. [*Æolian Co. *v.* Schubert Piano Co., 186.

TEST.

See Priority of Invention, 3; Reduction to Practice, 2; Trade-Marks, 9.

TRADE-MARK RIGHTS.

See Trade-Marks, 3, 7, 11.

TRADE-MARK USE.

See Trade-Marks, 2, 3, 4, 5, 7.

TRADE-MARKS.

1. PRIORITY—EVIDENCE OF PRIORITY.
Where appellant, The R. M. Hollingshead Co., proved use of the mark "Gear Life" for lubricating compounds not earlier than April, 1916, and a witness on behalf of appellee, the Area Manufacturing Co., testified that in August, 1915, packages of grease were shipped bearing this mark stenciled thereon, and way-bills of shipments were produced, though not referring to the mark, and a traveling salesman testified that he took orders for "Gear Life" compound between February 1, 1916, and the following May, and that during this time he stenciled the mark on packages containing the compound and gave the names of parties to whom the goods were sold, which evidence was corroborated by other witnesses, and appellant did not avail himself of the opportunity to call any of the parties referred to in the way-bills or to whom the goods were alleged to have been sold, *Held* that the evidence was sufficient to prove priority of use by appellee.
[*The R. M. Hollingshead Co. *v.* Area Manufacturing Co., 408.

2. ACQUISITION—EXTENT OF USE NECESSARY.
The use of a mark on a few sample-boxes of toilet powder, three of which were consigned to dealers in different parts of the country without previous request by them, for which there was paid only five cents for a box intended to sell at fifty cents, does not constitute such a use of the mark as to establish any property rights therein. [*Phillips *v.* Hudnut and Mack, 629.

3. SAME—GENERAL RULES AS TO ACQUISITION.
The common law, and not the trade-mark statutes, defines what constitutes a trade-mark. The trade-mark recognized by the common law is generally the outgrowth of a considerable period of use rather than a sudden invention. The exclusive right to it grows out of its use and not its mere adoption. (*Trade Mark Cases*, 16 O. G., 999; 100 U. S., 82, 84.) The trader must apply the mark to a vendible commodity and must actually put the commodity so marked on the market. [*Id.

4. APPEAL AND ERROR—QUESTIONS FOR REVIEW.
In a trade-mark interference proceeding involving the three parties H., M., and P., where it is adjudged by the Patent Office that H. was the first to adopt and use the mark, on appeal by P. to the court of appeals he is not entitled to be heard on the question whether the decision properly awarded priority to H. over M. [*Id.

5. SAME—REVIEW OF QUESTION NOT APPEALED.
In a three-party interference involving the application of H. and the registrations of M. and P., the Examiner of Interferences held that the marks were the same and awarded priority to H. After the decision was announced H. filed a motion requesting the Examiner of Interferences to adjudge that P. was not entitled to the use of the mark at the date of his application for registration, which was denied, from which H. failed to appeal. On P.'s appeal the Commissioner reviewed this action and reversed it, ordering the cancelation of P.'s registration. This was error, as H. did not appeal, and the question was therefore not before the Commissioner. [*Id.

6. "LAVA," FOR SOAP, NOT DESCRIPTIVE.
The word "Lava," for soap, *Held* not descriptive. It may suggest the function of soap, being derived from "lavare," to wash, and meaning, in English, fluid rock; but it does not describe its properties. (*In re Stephens-Adamson Mfg. Co.*, 272 O. G., 181; 49 App. D. C. —.)
[*William Waltke & Company *v.* Geo. H. Schafer & Company, 630.

7. GOODS OF THE SAME DESCRIPTIVE PROPERTIES—SOAP AND SHAVING-CREAM.
The owner of a mark for toilet soap has a right to extend it to shaving-cream, since in the popular mind a shaving-cream is a soap. [*Id.

8. IDENTITY OF MARKS—"U-LAVO" SIMILAR TO "LAVA."
The word "U-Lavo" conflicts with "Lava," the prefix "U-" being only an arguable distinction which is not sufficient. [*Id.

9. SAME—GENERAL TEST OF IDENTITY.
The test of the identity of trade-marks is not whether the words mean the same thing, but whether they are so similar in sound and appearance as to lead the public to believe that the goods on which they appear had a common origin. Conflict exists where a purchaser seeing only one and relying upon his memory of the other would likely fail to recognize the distinction, although he would do so could he see the two together. [*Id.

10. OPPOSITION—NOT NECESSARY TO SHOW DAMAGE TO OPPOSER.
In order to succeed in a trade-mark opposition proceeding, it is not necessary that opposer establish damages, it being sufficient to show likelihood of confusion or mistake in the mind of the public. [*Id.

11. REGISTRATION—DOUBTS RESOLVED AGAINST NEWCOMER.
Where there is doubt as to the right to register a mark in view of rights previously acquired, it should be resolved against the newcomer, since there is no excuse for a later comer to impinge upon prior rights in view of the unlimited field from which a mark may be selected. [*Id.

VALID PATENTS.

See Construction of Specifications and Patents, 2, 5; Particular Patents.

WITNESSES.

See Trade-Marks, 1.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbadini, Orgerio, Fairbanks, Pa. Separable rim. No. 1,335,778; Apr. 6; v. 273; p. 15.
Acker, Nicholas A., Oakland, Calif., assignor to American Can Company, New York, N. Y. Lining can ends. No. 1,336,013; Apr. 6; v. 273; p. 59.
Ackroyd, John H., Milford, Conn. Gas-burner and body-covering therefor. No. 1,335,869; Apr. 6; v. 273; p. 31.
Ahlen, William. (See Williams, H. D., and Ahlen.)
Ainsworth, Harry G., Kentland, Ind. Trousers-support. No. 1,335,927; Apr. 6; v. 273; p. 42.
Aktiebolaget Salenius' Werkstader. (See Eskilson, Sven A., assignor.)
Alexander Brothers. (See Gibb, Walton, assignor.)
Alexander, James G., Ames, Iowa. Spring-beam cultivator. No. 1,335,928; Apr. 6; v. 273; p. 42.
Allen, Bernard J., Blythe Bridge, and R. Y. Ames, Gideon Park, England. Casting pottery and other like articles. No. 1,336,180; Apr. 6; v. 273; p. 90.
Allen, Robert, Caversham, England. Piston or piston-valve. No. 1,335,951; Apr. 6; v. 273; p. 46.
Allen, Victor M., Waverly, N. Y. Automatic window-ventilator. No. 1,335,929; Apr. 6; v. 273; p. 42.
Allis, Dexter W., Whitman, assignor to A. M. Brewster, Boston, Mass. Phonograph driving mechanism. No. 1,335,809; Apr. 6; v. 273; p. 20.
Alphaero Engines (Foreign Patents). (See Alston, Charles H. T., assignor.)
Alston, Charles H. T., Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,335,952; Apr. 6; v. 273; p. 47.
American Can Company. (See Acker, Nicholas A., assignor.)
American Optical Company. (See Mathewson, Henry B., assignor.)
American Steel Foundries. (See Peycke, Armand H., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
Ames, Robert Y. (See Allen, B. J., and Ames.)
Andersen, Jörgen T., Gundstrup, near Otterup, Island of Funen, Denmark. Stylographic fountain-pen. No. 1,336,119; Apr. 6; v. 273; p. 79.
Anderson, Albert J., La Crosse, Wis. Coupling attachment. No. 1,336,181; Apr. 6; v. 273; p. 90.
Anderson, Ernst G. K., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,335,810; Apr. 6; v. 273; p. 20.
Anderson, John, Seattle, Wash. Auto-cab. No. 1,336,631; Apr. 6; v. 273; p. 118.
Andresen, Herman P., Chicago, Ill. Sign and holder therefor. No. 1,335,870; Apr. 6; v. 273; p. 31.
Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Phthalic anhydrid. No. 1,336,182; Apr. 6; v. 273; p. 90.
Anglada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Producing metal wheels. No. 1,336,332; Apr. 6; v. 273; p. 118.
Anglada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Producing wheels. No. 1,336,333; Apr. 6; v. 273; p. 119.
Anglada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Metal wheel. No. 1,336,334; Apr. 6; v. 273; p. 119.
Arkin, William, New York, N. Y. Artificial tooth. No. 1,335,717; Apr. 6; v. 273; p. 3.
Armstrong, Edwin H. (See Puplin, M. L., and Armstrong.)
Arthur, Harry A., Philadelphia, Pa. Operation-control record. No. 1,336,120; Apr. 6; v. 273; p. 79.
Arton, John A., Chicago, Ill. Bed-chair. No. 1,336,062; Apr. 6; v. 273; p. 67.
Ashe, William B., Hampton, and F. C. Bivins, Newport News, Va. Rivet-gun rig. No. 1,336,121; Apr. 6; v. 273; p. 79.
Ashton, Hannah, executrix. (See Ashton, Orrell.)
Ashton, Orrell, deceased, by H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,335,779; Apr. 6; v. 272; p. 15.
Austin, Henry K., Reading, Mass. Tire-inflating pump. No. 1,335,718; Apr. 6; v. 273; p. 3.
Automatic Electric Company. (See Erickson, John, assignor.) (Reissue.)
Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Pulsator for milking-machines. No. 1,335,953; Apr. 6; v. 273; p. 47.
Bachman, Arthur and H., Philadelphia, Pa. Semaphore for automobiles. No. 1,336,063; Apr. 6; v. 273; p. 68.
Bachman, Harry. (See Bachman, Arthur and H.)
Backert, Henry. (See Mertens, P., and Backert.)
Bahr, August T. J., assignor of one-half to E. S. Keller, Danville, Ill. Mechanical draw-delivery filing-cabinet. No. 1,336,183; Apr. 6; v. 273; p. 91.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Motor-vehicle wheel. No. 1,336,335; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-vehicles. No. 1,336,336; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Tire-carrying wheel for motor-vehicles. No. 1,336,337; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-vehicles. No. 1,336,338; Apr. 6; v. 273; p. 119.
Baker, Harvey C., Chicago, Ill. Window-awning. No. 1,335,930; Apr. 6; v. 273; p. 42.
Baker, Richard T., Philadelphia, Pa. Tire-protector. No. 1,336,271; Apr. 6; v. 273; p. 107.
Baker Wheel & Rim Company. (See Anglada, Joseph A., assignor.)
Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
Bakken, Ole K., Northwood, N. D. Automobile transmission-gearing. No. 1,335,811; Apr. 6; v. 273; p. 20.
Ball, Rowland, La Grange, Ill. Spring and shock-absorber. No. 1,336,184; Apr. 6; v. 273; p. 91.
Balsly, Ralph E., Cincinnati, Ohio. Stump-pulling machine. No. 1,335,931; Apr. 6; v. 273; p. 43.
Banaji, Framerz M. M., Bombay, India. Keyboard for typewriters. No. 1,336,122; Apr. 6; v. 273; p. 79.
Bancroft, Clinton. (See Horsman, William H., assignor.)
Bantjes, John T. F., Klerksdorp, Transvaal, South Africa. Tool head and handle construction. No. 1,336,185; Apr. 6; v. 273; p. 91.
Barnes, Charles W., Puyallup, Wash., assignor of one-fourth to B. W. Coiner, Tacoma, Wash. Hose and pipe coupling. No. 1,336,123; Apr. 6; v. 273; p. 80.
Barnes, John W., Rock Ferry, Birkenhead, England. Grinding apparatus specially applicable for grinding the interior of the A-tubes of guns. No. 1,336,014; Apr. 6; v. 273; p. 59.
Barnholth, C. A. (See Nelson, Oscar T., assignor.)
Baron, Frank, New York, N. Y. Clothes-line support. No. No. 1,336,186; Apr. 6; v. 273; p. 91.
Barr, David W., Des Moines, Iowa. Self-measuring lubricant-delivery device. No. 1,336,187; Apr. 6; v. 273; p. 91.
Barrett, William W., Lewiston, Idaho. Planter. No. 1,336,124; Apr. 6; v. 273; p. 80.
Barton, Francis M., Chicago, Ill. Concrete building. No. 1,335,780; Apr. 6; v. 273; p. 15.
Bassett, George C. (See Mayo, Joseph E., assignor.)
Baxter, William L. (See Cass, Charles W., assignor.)
Bayles, Robert A., Stockton, Calif. Excavating-machine. No. 1,335,932; Apr. 6; v. 273; p. 43.
Beale, Bessie, Broadstone, England. Sleeve-grip. No. 1,336,339; Apr. 6; v. 273; p. 120.
Beaudry, Dieudonne A., Gilbertville, Mass. Elevator. No. 1,335,719; Apr. 6; v. 273; p. 3.
Beaven, Leslie W., Chicago, Ill. Power-generating mechanism. No. 1,336,188; Apr. 6; v. 273; p. 92.
Beaver Company, The. (See Sidwell, Benjamin W., assignor.)
Bechler, André, Moutier, Switzerland. Gage for screw-threads. No. 1,336,189; Apr. 6; v. 273; p. 92.
Becket, Frederick M. (See Mardick, J. R., and Becket.)
Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Motor-vehicle. No. 1,335,720; Apr. 6; v. 273; p. 3.
Benjamin, Dowling, Camden, N. J. Condensing-radiator. No. 1,335,812; Apr. 6; v. 273; p. 20.
Benjamin Electric Manufacturing Company. (See Anderson, Ernst G. K., assignor.)

Bergeron, Clovis, assignor of one-half to E. W. Singletary, Morganza, La. Sewing-machine attachment. No. 1,336,340; Apr. 6; v. 273; p. 120.
Berghman, George H., Chicago, Ill. Skate-sharpener. No. 1,335,813; Apr. 6; v. 273; p. 21.
Berglof, Knut, Monessen, Pa. Annealing-furnace. No. 1,336,190; Apr. 6; v. 273; p. 92.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Heavy squaring-clamp. No. 1,335,721; Apr. 6; v. 273; p. 4.
Bernhard, Richard, assignor to The Traylor Engineering & M'f'g Co., Allentown, Pa. Gyratory crusher. No. 1,336,015; Apr. 6; v. 273; p. 59.
Bernsteen, A. E., *et al.* (See Shapiro, Herman, assignor.)
Berridge, Mason G., Dryden, Mich. Snowplow. No. 1,336,016; Apr. 6; v. 273; p. 59.
Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington, Pressing apparatus. No. 1,336,341; Apr. 6; v. 273; p. 120.
Bibby, James, and J. O. Boving, assignors to Electro-Metals Limited, London, England. Electric blast-furnace. No. 1,336,017; Apr. 6; v. 273; p. 59.
Billing, Charles, London, England. Disinfectant, antiseptic, deodorant, or detergent. No. 1,336,272; Apr. 6; v. 273; p. 107.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Motor-starting switch. No. 1,336,064; Apr. 6; v. 273; p. 68.
Bivins, Frederick C. (See Ashe, W. B., and Bivins.)
Black, David C., Newcastle-upon-Tyne, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, England. Ship-propulsion installation. No. 1,336,018; Apr. 6; v. 273; p. 60.
Black, David C., Alloa, Scotland, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, England. Ship-propulsion installation. No. 1,336,019; Apr. 6; v. 273; p. 60.
Black, David C., Alloa, Scotland, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, Northumberland, England. Ship-propulsion installation. No. 1,336,020; Apr. 6; v. 273; p. 60.
Blackstone Manufacturing Company. (See More, Glenn, assignor.)
Blanchard, Harry E., Hudson, Mass., assignor to Lapointe Machine Tool Company. Spiral broaching-machine. No. 1,335,871; Apr. 6; v. 273; p. 31.
Blankfield, George, assignor of one-sixth to A. E. Reid, one-sixth to I. Kuper, and one-sixth to P. C. Gordon, Benoni, Transvaal, South Africa. Means for packing and lubricating the pistons of internal-combustion and other engines. No. 1,336,342; Apr. 6; v. 273; p. 120.
Blevins, Wade H., *et al.* (See Super, Frank J., assignor.)
Bliss, Sarah M., Albuquerque, N. Mex. Upholsterer's tack. No. 1,336,273; Apr. 6; v. 273; p. 107.
Bloemquist, Charles O., Salt Lake City, Utah. Window-stop. No. 1,336,274; Apr. 6; v. 273; p. 107.
Blue, John C., Brooklyn, N. Y. Envelop construction. No. 1,335,814; Apr. 6; v. 273; p. 21.
Bohli, Jacques, Obach, Solothurn, assignor to Firm Scintilla, Solothurn, Switzerland. High-voltage-current-distributing apparatus for electric ignition apparatus of internal-combustion engines. No. 1,335,933; Apr. 6; v. 273; p. 43.
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Bouillit, Firmin A. (See Vlard, E. L., and Bouillit.)
Boulton, William W. (See McClure, R. A., and Boulton.)
Bour, Charles W., South Bend, Ind. Trap-nest. No. 1,336,191; Apr. 6; v. 273; p. 92.
Bourk, Louis P. H., Nicolet, Quebec, Canada. Casket. No. 1,335,722; Apr. 6; v. 273; p. 4.
Boving, Jens O. (See Bibby, J., and Boving.)
Bowers, Nicholas M., West McHenry, Ill. Hay-loader. No. 1,336,065; Apr. 6; v. 273; p. 68.
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Boyer, Edward J., Aurora, Kans. Book-holder. No. 1,336,275; Apr. 6; v. 273; p. 108.
Boyle, Bernard J. (See Boyer, E. C., and Boyle.)
Brackenbury, Edward W., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixer. No. 1,335,934; Apr. 6; v. 273; p. 43.
Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)
Brewster, Arthur M. (See Allis, Dexter W., assignor.)
Briechle, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,335,815; Apr. 6; v. 273; p. 21.
Briechle, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Accounting-machine. No. 1,336,192; Apr. 6; v. 273; p. 92.
Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)
Briggs, Robert M., Pittsfield, Mass., assignor to General Electric Company. Method and apparatus for applying shellac and the like to sheet materials. (Reissue.) No. 14,833; Apr. 6; v. 273; p. 132.
Briggs, Stephen F., and E. N. Jacobi, assignor to Briggs & Stratton Company, Milwaukee, Wis. Pedal-switch. No. 1,336,066; Apr. 6; v. 273; p. 68.
Brightwell, Dallas, Frankfort, Ky. Creeper. No. 1,336,276; Apr. 6; v. 273; p. 108.
Briner, Frank, Chester, Pa., assignor to Penn Seaboard Steel Corporation, Philadelphia, Pa. Stockless anchor. No. 1,335,816; Apr. 6; v. 273; p. 21.
Brinton, Geo. H., *et al.*, executors. (See Brinton, William F.)
Brinton, Ina, *et al.*, executors. (See Brinton, William F.)
Brinton, William F., deceased, Washington, Iowa; I. Brinton, G. H. Brinton, and C. M. Keck, executors. Rewinding means for motion-pictures. No. 1,335,817; Apr. 6; v. 273; p. 21.
Bronaugh, J. W., *et al.* (See Carroll, Andrew L., assignor.)
Brown, Edmund N., San Francisco, Calif. Electric heater. No. 1,336,021; Apr. 6; v. 273; p. 60.
Brown Engineering Company. (See Brown, William E., assignor.)
Brown, Harvey E., St. Louis, Mo., assignor to Simmons Company, Kenosha, Wis. Fabric-making machine. No. 1,336,343; Apr. 6; v. 273; p. 120.
Brown, Robert, Toledo, Ohio. Muffler. No. 1,335,872; Apr. 6; v. 273; p. 31.
Brown, William E., assignor to Brown Engineering Company, Detroit, Mich. Reversing valve-gear. No. 1,336,344; Apr. 6; v. 273; p. 121.
Bruce, Gaston D., Middlesboro, Ky. Curtain-pole and shade-supporting bracket. No. 1,335,954; Apr. 6; v. 273; p. 47.
Bryan, Edgar J., assignor of one-half to F. Stebler, Riverside, Calif. Fastener. No. 1,336,193; Apr. 6; v. 273; p. 93.
Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top. No. 1,336,022; Apr. 6; v. 273; p. 60.
Buch, Royer S., York, Pa. Molder's flask. No. 1,335,818; Apr. 6; v. 273; p. 22.
Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)
Buckley, William J., East Orange, assignor to Davis-Bournonville Company, Jersey City, N. J. Welding apparatus. No. 1,335,873; Apr. 6; v. 273; p. 31.
Bucklin, Charles S., Red Bank, N. J., assignor to Sprague Canning Machinery Company, Chicago, Ill. Hand-packfilling machine. No. 1,335,819; Apr. 6; v. 273; p. 22.
Burch, Edwin, Baltimore, Md. Fender. No. 1,336,277; Apr. 6; v. 273; p. 108.
Burger, Joseph, Brooklyn, N. Y. Heel. No. 1,336,194; Apr. 6; v. 273; p. 93.
Burgess Battery Company. (See Burgess, Charles F., assignor.)
Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Battery hand-lamp. No. 1,336,067; Apr. 6; v. 273; p. 68.
Burke, Harry C. (See Trew, James S., assignor.)
Burns, William C., Albany, Oreg. Instep-support. No. 1,336,278; Apr. 6; v. 273; p. 108.
Cable Company, The. (See Swensen, Alfred, assignor.)
Calkins, Elizabeth, St. Joseph, Mo. Vest. No. 1,336,279; Apr. 6; v. 273; p. 108.
Campbell, Le Roy W., Grand Rapids, Mich. Tunneling-machine. No. 1,335,723; Apr. 6; v. 273; p. 4.
Cameron, William J., Chicago, Ill. Adapter. No. 1,335,935; Apr. 6; v. 273; p. 44.
Campbell, Harry E., assignor to Union Electric Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,335,936; Apr. 6; v. 273; p. 44.
Caracristi, Virginius Z., Bronxville, assignor to Locomotive Pulverized Fuel Company, New York, N. Y. Means for feeding fuel to combustion-chambers. No. 1,336,125; Apr. 6; v. 273; p. 80.
Carlson, Andrew H., assignor to Prestcel Mfg. Company, Bridgeport, Conn. Adjustable holder. No. 1,335,724; Apr. 6; v. 273; p. 4.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Can-opener. No. 1,336,126; Apr. 6; v. 273; p. 80.
Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Terminal means for battery-plates. No. 1,336,127; Apr. 6; v. 273; p. 80.
Carr, Clyde M., Fort Scott, Kans. Railway-switch stand. No. 1,336,195; Apr. 6; v. 273; p. 93.
Carroll, Andrew L., assignor of one-sixth of O. Rowlett, one-sixth to J. W. Chambers, and one-sixth to J. W. Bronaugh, St. Louis, Mo. Car-wheel. No. 1,336,128; Apr. 6; v. 273; p. 80.
Carroll, Patrick, New York, N. Y. Automatic air-vent. No. 1,336,280; Apr. 6; v. 273; p. 108.
Cash, Arthur L. (See Short, C. R., and Cash.)
Cass, Charles W., Salem, and W. L. Baxter, Beverly, Mass. Clip. No. 1,336,129; Apr. 6; v. 273; p. 81.
Cataldi, Beniamino, Turin, Italy. Process and apparatus for the electrolytic decomposition of chlorids. No. 1,336,281; Apr. 6; v. 273; p. 109.
Catterall, Albert B., Ottumwa, Iowa. Combined valve-cap and dust-cap. No. 1,336,023; Apr. 6; v. 273; p. 60.
Caul, Louis, Detroit, Mich. Carbonated-water-supply apparatus. No. 1,335,874; Apr. 6; v. 273; p. 32.
Caywood, James A., assignor of one-fourth to E. N. Sebern and one-fourth to E. R. Mulvihill, Nederland, Colo. Beet-gathering machine. No. 1,336,024; Apr. 6; v. 273; p. 61.
Cave, Frederick C., Des Moines, Iowa. Resilient tire. No. 1,335,820; Apr. 6; v. 273; p. 22.
Chailley, Georges A., Lyon St. Clair Caluire, France. Magneto with water-tight casing. No. 1,336,196; Apr. 6; v. 273; p. 93.

Chambers, Jordan W., *et al.* (See Carroll, Andrew L., assignor.)
Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
Charbonnet, Joseph A., New Orleans, La. Bed-rail and lock. No. 1,336,282; Apr. 6; v. 273; p. 109.
Chesebro, Paris, Fairport, N. Y. Grain-door. No. 1,336,068; Apr. 6; v. 273; p. 69.
Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,130; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,131; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Transmission-gearing. No. 1,336,132; Apr. 6; v. 273; p. 81.
Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,133; Apr. 6; v. 273; p. 81.
Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical-arc welding. No. 1,335,875; Apr. 6; v. 273; p. 32.
Clampett, William H., London, Ontario, Canada. Bed-rest. No. 1,336,197; Apr. 6; v. 273; p. 93.
Clayton, Henry R. H., and O. J. Rose, Hobart, Tasmania, Australia. Machine for breaking up toffee and other like materials. No. 1,335,937; Apr. 6; v. 273; p. 41.
Clemens, Samuel, Hennepin, Ill. Cultivator. No. 1,335,725; Apr. 6; v. 273; p. 4.
Clipfell, Carroll D., and G. Manikowske, Wyndmere, N. D. Swing. No. 1,335,938; Apr. 6; v. 273; p. 44.
Cobb, Arthur, assignor of one-half to F. B. Houghton, Cleveland, Ohio. Bookbinding. No. 1,336,198; Apr. 6; v. 273; p. 93.
Coffeen, Lewis A. (See Nelson, C., and Coffeen.)
Colner, B. W. (See Barnes, Charles W., assignor.)
Colonnetti, Gustavo. (See Pozzo, A., and Colonnetti.)
Combs, Edgar S., Rochester, N. Y. Trolley. No. 1,336,199; Apr. 6; v. 273; p. 94.
Conrad, Nicholas J., Chicago, Ill. Circuit-breaker. No. 1,336,069; Apr. 6; v. 273; p. 69.
Cook, Charles M., Rochester, N. H. Grinder. No. 1,336,200; Apr. 6; v. 273; p. 94.
Cook, John H., Salt Lake City, Utah. Window-scaffold. No. 1,336,283; Apr. 6; v. 273; p. 109.
Cook, William T., Bowling Green, Ohio. Building-block. No. 1,336,025; Apr. 6; v. 273; p. 61.
Coombs, Daniel L. F., Kansas City, Mo. Carbureter. No. 1,336,070; Apr. 6; v. 273; p. 69.
Copony, Alfred, assignor to Copony Auto-Loading Company, Detroit, Mich. Decking apparatus. No. 1,336,201; Apr. 6; v. 273; p. 94.
Copony Auto-Loading Company. (See Copony, Alfred, assignor.)
Copper Products Company. (See Merritt, Matthew M., assignor.)
Cornelius, George T., Monessen, Pa. Dental toilet-case. No. 1,336,345; Apr. 6; v. 273; p. 121.
Corsi, John, Detroit, Mich. Valve-lifter. No. 1,336,202; Apr. 6; v. 273; p. 94.
Coupe, Lawrence W., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Shed-forming mechanism for looms. No. 1,335,876; Apr. 6; v. 273; p. 32.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, Frank J., San Francisco, Calif. Means for arresting particles of metal in lubricating-oil. No. 1,335,955; Apr. 6; v. 273; p. 48.
Cox, William G., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. No. 1,335,877; Apr. 6; v. 273; p. 32.
Craft, Walter D. (See Vorhauer, George F., assignor.)
Crago, Arthur W., Detroit, Mich. Clam-digger. No. 1,336,203; Apr. 6; v. 273; p. 94.
Craig, Robert J., Orange, N. J. Shoe-cleaner. No. 1,336,284; Apr. 6; v. 273; p. 109.
Crane, Henry H., Floral Park, assignor to Huber Mfg. Co., New York, N. Y. Lock. No. 1,335,821; Apr. 6; v. 273; p. 22.
Cremean, William F., Wilkes-Barre, Pa. Railway-car. No. 1,336,134; Apr. 6; v. 273; p. 81.
Critchett, James C., El Paso, Tex. Hydrocarbon-burner. No. 1,336,285; Apr. 6; v. 273; p. 110.
Cronowert, Winfield S., Addie, Idaho. Posthole-digger. No. 1,335,878; Apr. 6; v. 273; p. 33.
Crook, Charles M., Chicago, Ill. Card-rack. No. 1,335,822; Apr. 6; v. 273; p. 22.
Crouch, Walter L., and A. E. Rust, assignors to The E. Ingraham Company, Inc., Bristol, Conn. Dial-mat fastening for clocks. No. 1,336,204; Apr. 6; v. 273; p. 95.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Curtain Supply Company, The. (See Schneider, George, assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
Curtiss Aeroplane and Motor Corporation. (See Tarbox, John P., assignor.)
Dague, George W., Alexandria, La. Vehicle-wheel. No. 1,335,939; Apr. 6; v. 273; p. 44.
Dahlberg, B. G. (See Munroe, Trendway B., assignor.)
Dannelley, Dillon C., Dallas, Tex. Bottle-filling device. No. 1,336,071; Apr. 6; v. 273; p. 69.
Darley, John W., Jr., Baltimore, Md. Button-sewing machine. No. 1,336,346; Apr. 6; v. 273; p. 121.

Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus and method for building pneumatic tires. No. 1,335,879; Apr. 6; v. 273; p. 33.
Davis-Bournonville Company. (See Buckley, William J., assignor.)
Davis, Marion L., Sherman, Tex. Wire-fence shield. No. 1,336,205; Apr. 6; v. 273; p. 95.
Davis, Verner F., Orange, N. J. Temperature-regulator. No. 1,336,072; Apr. 6; v. 273; p. 69.
Day, Frank S., *et al.* (See Shapiro, Herman, assignor.)
Day, George H., Rochester, N. Y. Temple for spectacles. No. 1,335,823; Apr. 6; v. 273; p. 22.
Dayton Engineering Laboratories Company, The. (See Kettering, Charles F., assignor.)
De Becker, Leon A., St. Margarets-on-Thames, England. Cabinet for gramophone and like records. No. 1,336,206; Apr. 6; v. 273; p. 95.
De Carlo, Vincenzo, Wireton, Pa. Field-kitchen. No. 1,335,941; Apr. 6; v. 273; p. 45.
De Cew, Judson A., Montreal, Quebec, Canada. Making lubricating composition. No. 1,336,207; Apr. 6; v. 273; p. 95.
De Graff, George A., Milwaukee, Wis., assignor of one-half to H. J. Smith, Chicago, Ill. Dolly extension. No. 1,336,073; Apr. 6; v. 273; p. 70.
Deister, Emil and W. F., assignors to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,335,824; Apr. 6; v. 273; p. 23.
Deister Machine Company. (See Deister, Emil and W. F., assignors.)
Deister, William F. (See Deister, Emil and W. F.)
De Long, Nelson, Chicago, Ill. Stand. No. 1,335,726; Apr. 6; v. 273; p. 4.
Demorest, Edmurn L., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Tractor-wheel. No. 1,336,074; Apr. 6; v. 273; p. 70.
Dempsey, Edward M., Sidney, Ohio. Faucet. No. 1,336,026; Apr. 6; v. 273; p. 61.
Desoutter, Charles, London, England. Artificial leg. No. 1,335,781; Apr. 6; v. 273; p. 15.
De Vilbiss, John A., and H. L. Miller; said De Vilbiss assignor to G. F. Ernst, St. Louis, Mo. Intensifier for spark-plugs. No. 1,335,940; Apr. 6; v. 273; p. 44.
Dick, Ralph H., and C. F. Wolters, assignors to Safe-Cabinet Company, Marietta, Ohio. Heat-resisting safe or cabinet. No. 1,336,347; Apr. 6; v. 273; p. 121.
Dickie, James. (See Jardine, J. C., and Dickie.)
Dobson, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,335,956; Apr. 6; v. 273; p. 48.
Dodds, Redus D., Houston, Tex. Device for taking samples from wells. No. 1,335,880; Apr. 6; v. 273; p. 33.
Dodge Manufacturing Company. (See Mix, Melville W., assignor.)
Doellinger, Louis F., Waterloo, Iowa. Wringer attachment. No. 1,335,957; Apr. 6; v. 273; p. 48.
Dolan, John, Dayton, Ohio. Hoisting mechanism. No. 1,335,782; Apr. 6; v. 273; p. 15.
Dominski, Mike. (See Wilczynski, Józef, assignor.)
Dorffel, George, Oakland, Calif. Worm-drive. No. 1,336,286; Apr. 6; v. 273; p. 110.
Dorffel, George, Oakland, Calif. Submarine vessel. No. 1,336,287; Apr. 6; v. 273; p. 110.
Dorsey, Arthur A., Lawrence, Kans. Vulcanizer. No. 1,335,783; Apr. 6; v. 273; p. 16.
Dottl, Joseph, Madison, Wis. Support. No. 1,335,881; Apr. 6; v. 273; p. 33.
Doucette, William, Revere, Mass. Drinking-fountain. No. 1,336,401; Apr. 6; v. 273; p. 131.
Dougherty, Robert, New York, N. Y., and J. F. Kirby, Somerville, N. J. Oil-heater. No. 1,336,208; Apr. 6; v. 273; p. 95.
Drag, Nicholaus, Milwaukee, Wis. Automatic rodent-trap. No. 1,335,882; Apr. 6; v. 273; p. 33.
Draper Corporation. (See Coupe, Lawrence W., assignor.)
Driver, Charles H., Racine, Wis. Saw-blade. No. 1,336,209; Apr. 6; v. 273; p. 95.
Drullner, George W., Minneapolis, Minn. Register. No. 1,336,210; Apr. 6; v. 273; p. 96.
Duffy, Henry, Longmont, Colo. Vacuum sealing device. No. 1,336,211; Apr. 6; v. 273; p. 96.
Dunlap, Matthew E. (See Sponsler, O. L., Dunlap, and Henning.)
Dunlop Rubber Company, The. (See Twiss, Douglas F., assignor.)
Dupont, Omer. (See Sargery, J. A., and Dupont.)
Durant Manufacturing Company. (See Wetmore, Charles P., assignor.)
Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Rim for eyeglasses and spectacles. No. 1,335,942; Apr. 6; v. 273; p. 45.
Eastman Kodak Company. (See Fohner, William F., assignor.)
Eastman Kodak Company. (See Kroedel, Robert, assignor.)
Edna Brass Manufacturing Company, The. (See Macneir, Edwin, assignor.)
Edwards, Henry E. (See Buch, Max, assignor.)
Eglit, John J., New York, N. Y. Lifebont-davit. No. 1,336,075; Apr. 6; v. 273; p. 70.
Eisele, Charles W., Flint, Mich. Lamp-dimmer. No. 1,335,727; Apr. 6; v. 273; p. 5.

Electro Metallurgical Company. (See Mardick, John R., assignor.)
Electro Metallurgical Company. (See Mardick, J. R., and Becket, assignors.)
Electro-Metals Limited. (See Bibby, J., and Boving, assignors.)
Ellerbeck, William L., Salt Lake City, Utah. Tooth-polishing device. No. 1,335,825; Apr. 6; v. 273; p. 23.
Elliott, Clarence V., Baton Rouge, La. Carbureter. No. 1,336,288; Apr. 6; v. 273; p. 110.
Elimauer, Josef, Milwaukee, Wis. Automatic sealer and lubricator for refrigerating-compressors. No. 1,336,076; Apr. 6; v. 273; p. 70.
Elton, Olaf, Port Washington, Wis. Chair-iron. No. 1,335,883; Apr. 6; v. 273; p. 34.
Elton, Olaf, Port Washington, Wis. Chair adjustment. No. 1,335,884; Apr. 6; v. 273; p. 34.
Emens, Albert L., assignor to Sangamo Electric Company, Springfield, Ill. Cord-terminal for electric wires. No. 1,335,943; Apr. 6; v. 273; p. 45.
Erbel, Adam, and J. Wuepper, Bay City, Mich. Automobile-wheel jack. No. 1,335,885; Apr. 6; v. 273; p. 34.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. (Reissue.) No. 14,834; Apr. 6; v. 273; p. 133.
Ernst, George F. (See De Vilbiss, J. A., and Miller, assignors.)
Eskilson, Sven A., assignor to Aktiebolaget Salenius' Werkstader, Stockholm, Sweden. Inlet device for the whole-milk in centrifugal apparatus. No. 1,335,784; Apr. 6; v. 273; p. 16.
Evans, George, Elnora, Alberta, Canada. Combined post-hole-digger, wire-tightener, and crowbar. No. 1,336,027; Apr. 6; v. 273; p. 61.
Evers, William H., Lakewood, Ohio. Building construction. No. 1,335,886; Apr. 6; v. 273; p. 34.
Evon, Louis C., assignor to Scaright-Downs Manufacturing Co., Detroit, Mich. Molding-core. No. 1,336,212; Apr. 6; v. 273; p. 96.
Fagrie, Philip T., Seattle, Wash. Plumb-bob. No. 1,336,289; Apr. 6; v. 273; p. 110.
Faithfull, Wyndham L., Folliott, Sussex, England. Stirrup-leather. No. 1,335,826; Apr. 6; v. 273; p. 23.
Farnsworth, William F., Washington, D. C. Lock-washer. No. 1,335,944; Apr. 6; v. 273; p. 45.
Farr, Warren H., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Automatically-operating hood-door-fastening device. No. 1,335,958; Apr. 6; v. 273; p. 48.
Fentress, Henry C., Glen Dean, Ky. Automatic take-off device for glass-blowing machines. No. 1,336,028; Apr. 6; v. 273; p. 62.
Fido, Edwin G., Bombay, India. Pneumatic tire. No. 1,336,348; Apr. 6; v. 273; p. 121.
Field, Samuel. (See Sulman, H. L., and Field.)
Finkelstein, Morris F., New York, N. Y. Electrical fitting. No. 1,336,290; Apr. 6; v. 273; p. 110.
Finn, William J., Washington, D. C. Automobile-theft-detection device. No. 1,335,827; Apr. 6; v. 273; p. 23.
Fischer, Christian A., Grand Forks, N. D. Marker. No. 1,336,029; Apr. 6; v. 273; p. 62.
Fisher, William W. (See Pentecost, A., and Fisher.)
Flagg, Earl W., Tenino, Wash. Permutation hasp-lock. No. 1,335,959; Apr. 6; v. 273; p. 48.
Flannery Bolt Company. (See Flannery, John R., assignor.)
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Manufacture of staybolts for boilers. No. 1,336,213; Apr. 6; v. 273; p. 96.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,335,728; Apr. 6; v. 273; p. 5.
Forman, Philip, Jersey City, N. J. Combined mixing and dispensing apparatus. No. 1,336,214; Apr. 6; v. 273; p. 96.
Foster, William S., Dallas, Wis. Road-planer. No. 1,336,215; Apr. 6; v. 273; p. 97.
Framburg, Henry A., Berwyn, Ill. Lamp-socket structure. No. 1,335,828; Apr. 6; v. 273; p. 23.
Frame, Bruce, Portland, Oreg. Sweeper. No. 1,336,349; Apr. 6; v. 273; p. 122.
Francke, William J., Highland Park, N. J. Testing-machine. No. 1,335,887; Apr. 6; v. 273; p. 34.
French, Arthur S. D., Bixby, Okla. Pump-jack. No. 1,335,960; Apr. 6; v. 273; p. 49.
Frisbie, James M., and E. C. Tilton, Thompson Falls, Mont. Lineman's climber. No. 1,335,945; Apr. 6; v. 273; p. 45.
Fulton, Charles, Coffeyville, Kans. Package and article carrier. No. 1,335,888; Apr. 6; v. 273; p. 35.
Fulton, William H., Pittsburgh, Pa. Light-distributing means. No. 1,335,889; Apr. 6; v. 273; p. 35.
Gabrielson, John B., Springville, N. Y. Radiator. No. 1,335,890; Apr. 6; v. 273; p. 35.
Gadke, William, Philadelphia, Pa. Short-contact push-button. No. 1,335,729; Apr. 6; v. 273; p. 5.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cord-packing. No. 1,336,030; Apr. 6; v. 273; p. 62.
Garbeil, Abraham, Philadelphia, Pa. Toilet-box. No. 1,336,216; Apr. 6; v. 273; p. 97.
Garner, Francis M., Beech Grove, Ark. Bed. No. 1,335,961; Apr. 6; v. 273; p. 49.
Gaynor, Arthur C., Stratford, Conn. Ceiling and floor plate. No. 1,335,730; Apr. 6; v. 273; p. 5.
Gebhardt, William, San Antonio, Tex. Spring-wheel. No. 1,336,031; Apr. 6; v. 273; p. 62.
General Electric Company. (See Briggs, Robert M., assignor.) (Reissue.)
General Motors Company. (See Short, Charles R., assignor.)
General Motors Corporation. (See Farr, Warren H., assignor.)
General Motors Corporation. (See Sturt, Alfred T., assignor.)
General Motors Corporation. (See Whitten, Frank A., assignor.)
George, Edward E. (See Spencer, William O., assignor.)
Gerdien, Hans, Berlin-Schmargendorf, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Arrangement for evacuating gases from vessels. No. 1,335,829; Apr. 6; v. 273; p. 24.
Gibb, Walton, assignor to Alexander Brothers, Philadelphia, Pa. Joining leather and joint made thereby. No. 1,335,830; Apr. 6; v. 273; p. 24.
Giebel, Julius, and F. H. Zimmerman; said Giebel assignor to The Herbrand Company, Fremont, Ohio. Manufacturing dies and a hub or sinker therefor. (Reissue.) No. 14,835; Apr. 6; v. 273; p. 133.
Gifford, Clayton J., Manton, Mich. Cultivator. No. 1,336,217; Apr. 6; v. 273; p. 97.
Gilmore, Samuel R., Seattle, Wash. Plate-puller. No. 1,336,291; Apr. 6; v. 273; p. 111.
Glaser, Lillian, Detroit, Mich. Gas-mantle. No. 1,335,831; Apr. 6; v. 273; p. 24.
Goldsmith, Charles B., Waterbury, Conn. Transit-chute for safety-pin-carding apparatus. No. 1,335,731; Apr. 6; v. 273; p. 5.
Goldstein, Simon L., Baltimore, Md. Umbrella-tip. No. 1,336,218; Apr. 6; v. 273; p. 97.
Goldstein, Simon L., Baltimore, Md. Umbrella-tip. No. 1,336,219; Apr. 6; v. 273; p. 97.
Goodfriend, Samuel, Yonkers, N. Y. Bread-pan. No. 1,336,292; Apr. 6; v. 273; p. 111.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
Gordon, Paca C., *et al.* (See Blankfield, George, assignor.)
Gorman, John F., Portland, Oreg. Spark-controlling mechanism for internal-combustion engines. No. 1,336,350; Apr. 6; v. 273; p. 122.
Graeves-Klusman Tool Company, The. (See Jackson, George E., assignor.)
Grunmich, Frank, Brooklyn, N. Y. Holder for disk records. No. 1,336,293; Apr. 6; v. 273; p. 111.
Greene, Morgan A., Rupert, Idaho. Beet-topper. No. 1,335,962; Apr. 6; v. 273; p. 49.
Greenwood, Harold C., and W. R. Tate, London, England. Construction of catalyst-furnaces. No. 1,335,891; Apr. 6; v. 273; p. 35.
Greer, John A., Omaha, Nebr. Station-indicator and advertising device. No. 1,336,032; Apr. 6; v. 273; p. 62.
Groschke, F. E. (See Hales, Wiley J., assignor.)
Guthrie, William, Motherwell, assignor of one-half to D. M. Wallace, Dennistoun, Glasgow, Scotland. Motor-tractor. No. 1,335,732; Apr. 6; v. 273; p. 5.
Gwynn, Susie E. (See Gwynn, William A., assignor.)
Gwynn, William A., assignor to S. E. Gwynn, St. Louis, Mo. Vulcanizer. No. 1,336,220; Apr. 6; v. 273; p. 97.
Gwynn, William A., assignor to S. E. Gwynn, St. Louis, Mo. Spark-plug. No. 1,336,221; Apr. 6; v. 273; p. 97.
H. & F. Match Machine Corporation. (See Lispenard, George, assignor.)
Haag Cabinet Company. (See Howard, Emmett M., assignor.)
Hackman, Amandes, Allentown, Pa. Bed-rest. No. 1,336,294; Apr. 6; v. 273; p. 111.
Hagemeyer, Henry F., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Vial machine. No. 1,335,733; Apr. 6; v. 273; p. 6.
Hales, Wiley J., Houston, assignor of one-half to F. E. Groschke, Harris county, Tex. Nut-locking device. No. 1,336,077; Apr. 6; v. 273; p. 71.
Hall, Holmes. (See Kelly, James G., assignor.)
Hamilton, Clifford C., and J. Hutchinson, Gull Lake, Saskatchewan, Canada. Grease-cup. No. 1,336,135; Apr. 6; v. 273; p. 82.
Hamm, George H., Athens, N. Y. Calking-tool. No. 1,336,295; Apr. 6; v. 273; p. 111.
Hammerly, Richard, New York, N. Y. Piston-ring adjuster. No. 1,336,222; Apr. 6; v. 273; p. 98.
Hampson, Donald A., assignor to Morgans & Wilcox Mfg. Company, Middletown, N. Y. Printer's furniture. No. 1,336,223; Apr. 6; v. 273; p. 98.
Hancock, Thomas, Bow, assignor to The Reflecto-Metal Company, Limited, London, England. Manufacture of metal reflectors, mirrors, and other metal articles having a reflecting surface or surfaces. No. 1,336,224; Apr. 6; v. 273; p. 98.
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Hanscom, Frank Z., Elmhurst, Ill. Anterior tooth and backing. No. 1,335,734; Apr. 6; v. 273; p. 6.
Hardie, R. W., Company. (See Hardie, Robert W., assignor.)
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Humidifying air. No. 1,336,225; Apr. 6; v. 273; p. 98.

Hardingham, George G. M., assignor to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Cutter for milling screw-threads. No. 1,335,892; Apr. 6; v. 273; p. 35.
Harlem Contracting Company. (See Shortell, William H., assignor.)
Harrington, William V. (See Ray, George W., assignor.)
Harrison, Herbert C., assignor to Harrison Radiator Corporation, Lockport, N. Y. Radiator-unit. No. 1,336,136; Apr. 6; v. 273; p. 82.
Harrison Radiator Corporation. (See Harrison, Herbert C., assignor.)
Hart, John H., Bennington, Vt. Sailboat. No. 1,336,226; Apr. 6; v. 273; p. 98.
Harvey, Walter J., Toronto, Ontario, Canada. Light-controlling device. No. 1,335,832; Apr. 6; v. 273; p. 24.
Harvie, William J., Auburn, N. Y. Mechanical ticket-taker. No. 1,335,963; Apr. 6; v. 273; p. 49.
Hathaway, Hosea, Brookline, Mass. Registering weighing-scale. No. 1,336,351; Apr. 6; v. 273; p. 122.
Hausfeld, Joseph E., Cincinnati, Ohio. Non-crucible furnace. No. 1,336,137; Apr. 6; v. 273; p. 82.
Hayes, Harry W., Indianapolis, Ind. Artificial floating fly and hook. No. 1,336,227; Apr. 6; v. 273; p. 99.
Heasley, Jacob M., Pittsburgh, Pa. Tobacco tin or box. No. 1,336,228; Apr. 6; v. 273; p. 99.
Heath, Oscar. (See Trull, Lyman A., assignor.)
Hecht, Walter C., Newport News, Va. Detachable handle for trucks. No. 1,336,033; Apr. 6; v. 273; p. 63.
Hedberg, Guldo A., Alingsås, Sweden. Manufacture of explosives. No. 1,335,785; Apr. 6; v. 273; p. 16.
Hedenstrom, Ernest E. G., Brooklyn, N. Y., assignor to Springfield Motors Company, Wilmington, Del. Automatic switch-operating device for aeroplane mechanisms. No. 1,336,138; Apr. 6; v. 273; p. 82.
Hegelman, Theodore, Oak Park, Ill. Ball-bearing. No. 1,336,352; Apr. 6; v. 273; p. 122.
Henning, Sherburne B. (See Sponsler, O. L., Dunlap and Henning.)
Henry, Louis L., Toulon, France. Automatic stabilizing apparatus. No. 1,335,893; Apr. 6; v. 273; p. 36.
Hensley, Bird E., assignor of one-half to C. W. Meeker, Salem, Oreg. Bridle-bit. No. 1,335,964; Apr. 6; v. 273; p. 49.
Herbrand Company, The. (See Giebel, J., and Zimmerman, assignors.) (Reissue.)
Hess, Michael, Indianapolis, Ind., assignor to International Printing Company. Box-forming machine. No. 1,335,735; Apr. 6; v. 273; p. 6.
Hilk, William A. (See Tranmer, Fred, assignor.)
Hinnard, Oscar H. (See Nelson, A., and Hinnard.)
Hjorth, Oscar B., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer-magnet drive. No. 1,335,833; Apr. 6; v. 273; p. 24.
Hoddle, Charles, Westminster, London, assignor of one-half to Thorn & Hoddle Acetylene Company, Limited, Westminster, London, England. Work-holder. No. 1,336,229; Apr. 6; v. 273; p. 99.
Hoffmann, Fredrick, Louisville, Ky. Mattress. No. 1,335,965; Apr. 6; v. 273; p. 50.
Hofmeister, Leo, Milwaukee, Wis. Automobile-tire. No. 1,336,139; Apr. 6; v. 273; p. 82.
Holcomb and Hoke M'f'g Co. (See Tripp, Charles A., assignor.)
Holmes, James S., assignor to James Spicer and Sons Limited, London, England. Apparatus for winding paper cardboard and like tubes. No. 1,335,894; Apr. 6; v. 273; p. 36.
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holzbauer, Albert J. (See Sebald, George J., assignor.)
Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Suction-cleaner. No. 1,336,078; Apr. 6; v. 273; p. 71.
Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
Hosch, Annie M., administratrix. (See Hosch, Walter E.)
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to Measuregraph Company, St. Louis, Mo. Fabric measuring and computing machine. No. 1,336,230; Apr. 6; v. 273; p. 99.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Carriage for counter attachment. No. 1,336,231; Apr. 6; v. 273; p. 100.
Houghton, Frank B. (See Cobb, Arthur, assignor.)
Horsman, William H., assignor of one-fourth to C. Bancroft, San Francisco, Calif. Slug-lock. No. 1,335,966; Apr. 6; v. 273; p. 50.
Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,335,834; Apr. 6; v. 273; p. 24.
Hoting, Hans C., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Control mechanism for pressing-machines. No. 1,335,835; Apr. 6; v. 273; p. 25.
Howard, Emmett M., Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa. Combined phonographic-disk-record and talking-machine cabinet. No. 1,335,967; Apr. 6; v. 273; p. 50.
Howard, William S., Hazlehurst, Miss. Toilet-paper holder. No. 1,336,140; Apr. 6; v. 273; p. 83.
Hoyt, Daniel, East Orange, assignor to The National Lock Washer Company, Newark, N. J. Curtain-fixture. No. 1,335,968; Apr. 6; v. 273; p. 50.
Huber Mfg. Co. (See Crane, Henry H., assignor.)
Hudson Motor Specialties Company. (See Hudson, William F., assignor.)
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Radius-rod truss. No. 1,336,353; Apr. 6; v. 273; p. 123.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Muffler attachment for motor-vehicles. No. 1,336,354; Apr. 6; v. 273; p. 123.
Hughes, Emily W., administratrix. (See Hughes, Johnson.)
Hughes, Johnson, deceased; E. W. Hughes, administratrix, Philadelphia, Pa. Electrode-holder. No. 1,335,895; Apr. 6; v. 273; p. 36.
Hughes, Morris E., Clare, Iowa. Vehicle lifter or jack. No. 1,335,969; Apr. 6; v. 273; p. 50.
Humm, Hans, Brooklyn, N. Y. Match-container. No. 1,335,970; Apr. 6; v. 273; p. 51.
Hutchinson, Joseph. (See Hamilton, Clifford C., assignor.)
Hyde, Frank, Sioux Falls, S. D. Shaving-brush. No. 1,335,896; Apr. 6; v. 273; p. 36.
Illinois Tool Works. (See Olson, Carl G., assignor.)
Industrial Research Corporation. (See Belden, Edward H., assignor.)
Ingle, Arthur H. (See Trosch, Alfred, assignor.)
Ingraham, E., Company, The. (See Crouch, W. L., and Rust, assignors.)
International Precipitation Company. (See Schmidt, Walter A., assignor.)
International Printing Company. (See Hess, Michael, assignor.)
Isachson, Norman, Albion, Idaho. Timer attachment. No. 1,336,296; Apr. 6; v. 273; p. 112.
Isliker, Albert, assignor of one-half to Motosacoche Société Anonyme, Geneva, Switzerland. Two-stroke internal-combustion engine. No. 1,336,232; Apr. 6; v. 273; p. 100.
Ivory, James W., Philadelphia, Pa. Tobacco-pipe. No. 1,336,233; Apr. 6; v. 273; p. 100.
J and B Manufacturing Company. (See Jacobson, Edward B., assignor.)
Jackson Fence Company. (See Mills, Anson C., assignor.)
Jackson, George E., assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio. Belt-shifter. No. 1,335,736; Apr. 6; v. 273; p. 6.
Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)
Jacobs, George S., assignor to Standard Detroit Tractor Co., Detroit, Mich. Tractor attachment for automobiles. No. 1,335,836; Apr. 6; v. 273; p. 25.
Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Induction-coil. No. 1,335,837; Apr. 6; v. 273; p. 25.
Jamison, Frank L., Pittsburgh, Pa. Ingot-casting device. No. 1,336,234; Apr. 6; v. 273; p. 100.
Jardine, James C., and J. Dickie, Summerside, Prince Edward Island, Canada. Shoe. No. 1,336,355; Apr. 6; v. 273; p. 123.
Jarvis, Herbert C., Renton, assignor to Pacific Car & Foundry Co., Seattle, Wash. Brake-operating means for trailers. No. 1,336,235; Apr. 6; v. 273; p. 100.
Jensen, Karl K., Berkeley, Calif. Portable bath-shower. No. 1,336,034; Apr. 6; v. 273; p. 63.
Johnson, Adolph, Battle Creek, Mich. Cereal cooker and sterilizer. No. 1,336,079; Apr. 6; v. 273; p. 71.
Johnson, Eugene M., Portland, Oreg. Fish-trap. No. 1,336,356; Apr. 6; v. 273; p. 123.
Johnson, Jacob T., Atlanta, Ga. Combination-faucet. No. 1,336,236; Apr. 6; v. 273; p. 101.
Johnson, John, New York, N. Y. Door. No. 1,335,838; Apr. 6; v. 273; p. 25.
Johnson, Melvin A., Tenstrike, Minn. Pitman-protector for harvesting-machines. No. 1,335,897; Apr. 6; v. 273; p. 36.
Johnston, James S., Utica, N. Y. Machine-gun. No. 1,335,839; Apr. 6; v. 273; p. 25.
Jones, Frank, Salt Lake City, Utah. Beet screening, piling, and loading machine. No. 1,336,297; Apr. 6; v. 273; p. 112.
Jones, Frank E., administrator. (See Jones, Harry W.)
Jones, Frank M., Boston, Mass. Dough-mixing machine. No. 1,335,737; Apr. 6; v. 273; p. 6.
Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining mineral oils. No. 1,336,357; Apr. 6; v. 273; p. 123.
Jones, James E. (See Demorest, Edmurn L., assignor.)
Jones, Owen M., New York, N. Y. Fluid-pressure-operated controller. No. 1,335,898; Apr. 6; v. 273; p. 37.
Jones, William E., assignor of one-half to C. S. Williams, Ellisville, Miss. Swingletree. No. 1,335,971; Apr. 6; v. 273; p. 51.
Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,336,298; Apr. 6; v. 273; p. 112.
Julian, Gideon J., Beverly, Mass., assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me. Shoe-finishing tool. No. 1,335,786; Apr. 6; v. 273; p. 16.
Kahlenberg Bros. Co. (See Kahlenberg, William R., assignor.)
Kahlenberg, William R., assignor to Kahlenberg Bros. Co., Two Rivers, Wis. Fluid-filter. No. 1,335,899; Apr. 6; v. 273; p. 37.
Kalamazoo Tank Silo Company. (See Youmans, George P., assignor.)

Kansas City Gasoline Company, The. (See Jones, Harry W., assignor.)

Kansas City Gasoline Company, The. (See Wellman, F. E., and Sibley, assignors.)

Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)

Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)

Karasevicz, Jouzas, South Amboy, N. J. Lock. No. 1,336,080; Apr. 6; v. 273; p. 71.

Kawakita, Yoshinao, Hongo-Ku, Tokyo, Japan. System of electrically indicating on board ship the depth of sea-water. No. 1,335,738; Apr. 6; v. 273; p. 7.

Kaylor, Jacob F., Pekin, Ill. Water-carrying attachment for razors. No. 1,335,840; Apr. 6; v. 273; p. 25.

Keck, C. M., *et al.*, executors. (See Brinton, William F.)

Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,335,739; Apr. 6; v. 273; p. 7.

Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Universal joint. No. 1,335,740; Apr. 6; v. 273; p. 7.

Keller, Edgar S. (See Bahr, August T. J., assignor.)

Kellerman, Adolf B., New York, N. Y. Packing-form. No. 1,335,972; Apr. 6; v. 273; p. 51.

Kellogg Switchboard and Supply Company. (See Schoenwolf, Fred, assignor.)

Kellum, Lyman W., Birdsboro, Pa. Charging mechanism for cupolas. No. 1,335,741; Apr. 6; v. 273; p. 7.

Kelly, James G., assignor of one-half to H. Hall, Sedalia, Mo. Solder for aluminum. No. 1,336,081; Apr. 6; v. 273; p. 71.

Kelly, William D., Lewis Run, Pa. Scaffold. No. 1,336,141; Apr. 6; v. 273; p. 83.

Kennedy, Charles L., Columbia, S. C. Automatic hoeing-machine. No. 1,336,299; Apr. 6; v. 273; p. 112.

Kennedy, James M., Columbus, Ohio. Bolter-screen attachment. No. 1,336,300; Apr. 6; v. 273; p. 112.

Kesselman, Samuel, Newark, N. J. Chair. No. 1,335,973; Apr. 6; v. 273; p. 51.

Kessler, Benjamin H., Tampa, Fla. Engine-valve attachment. No. 1,336,237; Apr. 6; v. 273; p. 101.

Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Circuit-breaker indicating device. No. 1,336,142; Apr. 6; v. 273; p. 83.

Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Circuit-breaker indicating device. No. 1,336,143; Apr. 6; v. 273; p. 83.

Kienle, Charles. (See Reid, J. E., and Kienle.)

King, Elgin M., Niagara Falls, N. Y. Multiple-fuse plug. No. 1,336,238; Apr. 6; v. 273; p. 101.

Kingsbury, Alvin C., Gig Harbor, Wash. Automatic air-pressure control. No. 1,336,301; Apr. 6; v. 273; p. 112.

Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)

Kingsbury, Harry T. and E. J., Keene, N. H. Toy boat. No. 1,335,900; Apr. 6; v. 273; p. 37.

Kinraide, Thomas B., Boston, Mass. Apparatus for forming a smooth surface on metal while being milled. No. 1,336,239; Apr. 6; v. 273; p. 101.

Kirkbride, Donald K. (See Kirkbride, Oliver B., assignor.)

Kirkbride, Oliver B., assignor of one-fourth to D. K. Kirkbride, Minneapolis, Minn. Nut and bolt lock. No. 1,335,901; Apr. 6; v. 273; p. 37.

Kirby, John F. (See Dougherty, E., and Kirby.)

Kirke, Percy S., Westminster, London, England. Steam-superheater. No. 1,335,974; Apr. 6; v. 273; p. 51.

Kleckler, Henry, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane. No. 1,336,405; Apr. 6; v. 273; p. 132.

Klein, Benjamin, New York, N. Y. Amusement device. No. 1,336,082; Apr. 6; v. 273; p. 71.

Klema, Joseph N., Austin, Minn. Lantern. No. 1,335,841; Apr. 6; v. 273; p. 26.

Knapp Metal Barrel and Package Co. of Nevada. (See Knapp, Sewell A. and M. A., assignors.)

Knapp, Moses A. (See Knapp, Sewell A. and M. A.)

Knapp, Sewell A., Berkeley, and M. A. Knapp, Oakland, Calif., assignors to Knapp Metal Barrel and Package Co. of Nevada, Carson City, Nev. Collapsible barrel. No. 1,336,358; Apr. 6; v. 273; p. 123.

Knight, William W., Oxford, Miss. Combination baby's bed, cradle, and wardrobe. No. 1,336,240; Apr. 6; v. 273; p. 101.

Knox, William C., New York, N. Y. Station-indicator. No. 1,336,035; Apr. 6; v. 273; p. 63.

Kocourek, Henry, Chicago, Ill. Aerating device for primers for internal-combustion engines. No. 1,336,144; Apr. 6; v. 273; p. 83.

Kranz, Herman L., Brooklyn, N. Y. Pocket tool-holder. No. 1,336,083; Apr. 6; v. 273; p. 72.

Krause, George E., Canton, Ohio. Box. No. 1,335,787; Apr. 6; v. 273; p. 16.

Krey, Carl, Battle Creek, Mich. Cradle. No. 1,336,302; Apr. 6; v. 273; p. 113.

Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding mechanism. No. 1,335,742; Apr. 6; v. 273; p. 7.

Kuper, Israel, *et al.* (See Blankfield, George, assignor.)

Kusterle, Frank. (See Travis, D. C., and Kusterle.)

Lachman, Philipp, and G. Thomas, Rahway, N. J. Vibratory disk. No. 1,336,036; Apr. 6; v. 273; p. 63.

Lafferty, Herbert D. (See Shearer, Joe E., assignor.)

La Grange, William J., Rensselaer, N. Y. Automobile turntable-jack. No. 1,336,037; Apr. 6; v. 273; p. 63.

La May, Arthur C., deceased, Rochester, N. Y.; B. La May, administratrix. Drafting-machine. No. 1,336,241; Apr. 6; v. 273; p. 102.

La May, Bridget, administratrix. (See La May, Arthur C.)

Lambert, Joseph A., Houston, Tex. Means for detachably securing chairs to floors. No. 1,335,842; Apr. 6; v. 273; p. 26.

Landis, Raymond F., Reading, Pa. Valve control and releasing device. No. 1,336,084; Apr. 6; v. 273; p. 72.

Lapointe Machine Tool Company. (See Blanchard, Harry E., assignor.)

Larson, Edward, Hartford, Conn. Sash-lock. No. 1,336,242; Apr. 6; v. 273; p. 102.

Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Apparatus for producing hydrochloric acid. No. 1,335,743; Apr. 6; v. 273; p. 8.

Laughlin Fruit Reliners Inc. (See Winchester, William L., assignor.)

Lauzon, Mabel M., Chicago, Ill. Garment. No. 1,336,303; Apr. 6; v. 273; p. 113.

Layne & Bowler Company. (See Layne, Lloyd F., assignor.)

Layne, Lloyd F., Houston, Tex., assignor to Layne & Bowler Company. Well-screen. No. 1,335,975; Apr. 6; v. 273; p. 51.

Leach, Vivian A., San Francisco, Calif. Valve for inner-tube valve-stems. No. 1,335,976; Apr. 6; v. 273; p. 52.

Lee, Ulysses G., Chicago, Ill. Screen for portholes and the like. No. 1,336,038; Apr. 6; v. 273; p. 63.

Lee, Walter O., Detroit, Mich. Button. No. 1,336,243; Apr. 6; v. 273; p. 102.

Lehman, Joseph H., New York, N. Y. Moving-picture shutter. No. 1,335,744; Apr. 6; v. 273; p. 8.

Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Conveying mechanism. No. 1,336,304; Apr. 6; v. 273; p. 113.

Levanseler, Frank E., Chicago, Ill. Support for hinged covers or members. No. 1,336,085; Apr. 6; v. 273; p. 72.

Lewis, Charles A., Dayton, Ohio. Heater for hydrocarbon-fuel intakes. No. 1,335,843; Apr. 6; v. 273; p. 26.

Liebowitz, Benjamin, New Rochelle, N. Y. Pivot. No. 1,335,745; Apr. 6; v. 272; p. 8.

Lightle, Lena R., Chewelah, Wash. Rotary table for ovens. No. 1,335,844; Apr. 6; v. 273; p. 26.

Lines, Jesse, Sabetha, Kans. Auto attachment. No. 1,336,305; Apr. 6; v. 273; p. 113.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Match-machine attachment. No. 1,336,244; Apr. 6; v. 273; p. 102.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Match-boxing attachment. No. 1,336,245; Apr. 6; v. 273; p. 102.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Registering attachment for match-machine. No. 1,336,246; Apr. 6; v. 273; p. 102.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Pin-gates for match-machine hoppers. No. 1,336,247; Apr. 6; v. 273; p. 103.

Littlehales, W. W. (See Weary, John, assignor.)

Locomotive Pulverized Fuel Company. (See Caracristi, Virginius Z., assignor.)

Lohse, Otto C., Bloomington, Ill. Automobile protective device. No. 1,336,306; Apr. 6; v. 273; p. 113.

Long, Levett A., assignor to F. A. Tranchant, Dayton, Ohio. Insect-trap. No. 1,335,845; Apr. 6; v. 273; p. 26.

Loomis, Allen, Detroit, Mich. Key mechanism for wood wind instruments. No. 1,336,359; Apr. 6; v. 273; p. 124.

Loomis, Harry T., Brooklyn, N. Y. Burial-garment and making same. No. 1,336,248; Apr. 6; v. 273; p. 103.

Loudon, Dorr F., New York, N. Y. Plant-stand. No. 1,336,307; Apr. 6; v. 273; p. 114.

Louden Machinery Company. (See Neller, Albert H., assignor.)

Ludwig, De Forest W., Pittsburgh, Pa. Floral device. No. 1,336,249; Apr. 6; v. 273; p. 103.

Luitwieler, Clarence S., *et al.* (See Presby, Leroy Q., assignor.)

Lumley, Gascoigne, Lagos, Nigeria, West Africa. Gland and packing of centrifugal sand-pumps. No. 1,336,308; Apr. 6; v. 273; p. 114.

Lummus, Walter E., Lynn, Mass. Treating gas-vapor mixtures. No. 1,336,360; Apr. 6; v. 273; p. 124.

Lunken, Edmund H., Cincinnati, Ohio. Pocket-window. No. 1,336,145; Apr. 6; v. 273; p. 84.

Lyman, John L., Easthampton, Mass. Garment-hanger. No. 1,335,902; Apr. 6; v. 273; p. 37.

McCarter, George, Denver, Colo. Coal-mining machine. No. 1,336,039; Apr. 6; v. 273; p. 63.

McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Co., Seattle, Wash. Railway-car truck. No. 1,336,361; Apr. 6; v. 273; p. 124.

McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Company, Seattle, Wash. Turntable. No. 1,336,362; Apr. 6; v. 273; p. 124.

McCoy, Henry E., and F. J. Tarr, Sapulpa, Okla. Sampling device. No. 1,336,250; Apr. 6; v. 273; p. 103.

McDonald, John, Montreal, Quebec, Canada. Shoe-fastening device. No. 1,336,146; Apr. 6; v. 273; p. 84.

McLaughlin, Frederick, Canton, Ill. Antiskidding armor for truck-tires. No. 1,336,363; Apr. 6; v. 273; p. 124.

McLaughlin, Wilson L., Decatur, Ill. Apparatus for treating fuel. No. 1,336,364; Apr. 6; v. 273; p. 125.

McNamara, James, Portland, Oreg. Pressure-regulator. No. 1,335,903; Apr. 6; v. 273; p. 37.

McNeil, Claude P. (See Wilson, R. E., and McNeil.)

McPartland, James H., Houlton, Me. Sewing-machine. No. 1,336,365; Apr. 6; v. 273; p. 125.

Macdonald, Harry P., Montclair, assignor to The Snead & Co. Iron Works, Jersey City, N. J. Method of and apparatus for heat-treating metallic articles. No. 1,335,977; Apr. 6; v. 273; p. 52.

MacDonald, John, & Son. (See Walker, William, assignor.)

Macneir, Edwin, Philadelphia, Pa., assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio. Water-gage. No. 1,335,904; Apr. 6; v. 273; p. 28.

Malaczynski, Peter, Brooklyn, N. Y. Padlock. No. 1,336,309; Apr. 6; v. 273; p. 114.

Malthaner, John F., Atlanta, Ga. Recording-telephone. No. 1,336,978; Apr. 6; v. 273; p. 52.

Manikowske, George. (See Clipfell, C. D., and Manikowske.)

Mardick, John R., New York, assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,335,788; Apr. 6; v. 273; p. 16.

Mardick, John R., New York, and F. M. Becket, assignors to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,335,789; Apr. 6; v. 273; p. 16.

Mardick, John R., New York, assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive and preparing same. No. 1,335,790; Apr. 6; v. 273; p. 16.

Marbenke, August H., New York, N. Y. Siphon-starter. No. 1,336,310; Apr. 6; v. 273; p. 114.

Marks, Albert, New Britain, Conn. Numbering-stamp and the like. No. 1,335,746; Apr. 6; v. 273; p. 8.

Marmon Chicago Company, The. (See Olson, William O., assignor.)

Marsh, Leon E., Los Angeles, Calif. Baby-nipple protector. No. 1,336,366; Apr. 6; v. 273; p. 125.

Martin, Benjamin W., Zanesville, and H. Same, Akron, Ohio. Machine for placing washers in heel-molds. No. 1,336,319; Apr. 6; v. 273; p. 116.

Martin, Jose R., Brooklyn, N. Y. Boring-bar. No. 1,336,311; Apr. 6; v. 273; p. 114.

Martineau, Clarence R. (See Martineau, William C. and C. R.)

Martineau, William C. and C. R., Albany, N. Y. Fruit-jar. No. 1,336,367; Apr. 6; v. 273; p. 125.

Massie, Thomas K., Athens, W. Va. Silo. No. 1,335,747; Apr. 6; v. 273; p. 8.

Mathewson, Henry B., San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass. Lens-testing instrument. No. 1,336,040; Apr. 6; v. 273; p. 64.

Maxfield, James B., Spokane, Wash. Collar-fastener. No. 1,336,147; Apr. 6; v. 273; p. 84.

Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Booklet-stitching machine. No. 1,336,251; Apr. 6; v. 273; p. 103.

Mayo, Joseph E., assignor of one-half to G. C. Bassett, Sacramento, Calif. Machine for the mechanical application of paints and other liquids. No. 1,336,041; Apr. 6; v. 273; p. 64.

Measuregraph Company. (See Hosch, Walter E., assignor.)

Measuregraph Company, The. (See Turner, Douglas, assignor.)

Meeker, Charles W. (See Hensley, Bird E., assignor.)

Mehlin, Charles, Fort Lee, N. J. Piano. No. 1,335,791; Apr. 6; v. 273; p. 17.

Merrick, Frank W., *et al.* (See Presby, Leroy L., assignor.)

Merritt, Labe, Creedmore, N. C. Valve-grinder. No. 1,335,979; Apr. 6; v. 273; p. 52.

Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic process and product. No. 1,335,846; Apr. 6; v. 273; p. 26.

Mertens, Paul, Newark, and H. Backert, Irvington, N. J. Handle for knives, &c. No. 1,335,847; Apr. 6; v. 273; p. 27.

Metals Extraction Corporation, The. (See Sulman, H. L., and Field, assignors.)

Meyer, Nicolaas, E. G. (See Schoute, C. van Heyst, and Meyer.)

Miles, John, Ontonagon, Mich. Saw-gummer. No. 1,336,042; Apr. 6; v. 273; p. 64.

Mill, Anton, Cincinnati, Ohio. Friction-clutch. No. 1,335,748; Apr. 6; v. 273; p. 8.

Miller, Charles E., Pittsburgh, Pa. Spade. No. 1,335,848; Apr. 6; v. 273; p. 27.

Miller, Elmer, Boonton, N. J. Non-refillable bottle. No. 1,336,252; Apr. 6; v. 273; p. 104.

Miller, Frank W., Bethel, Mo. Garment-supporter. No. 1,336,312; Apr. 6; v. 273; p. 115.

Miller, Henry L. (See De Vilbiss, J. A., and Miller.)

Miller, Willis I., Cleveland, Ohio. Telephone-support. No. 1,336,253; Apr. 6; v. 273; p. 104.

Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Measuring device for fence-machines. No. 1,335,980; Apr. 6; v. 273; p. 53.

Milne, W. J., *et al.* (See Super, Frank J., assignor.)

Mitchell, Raymond C., assignor to The Webster & Perks Tool Company, Springfield, Ohio. Grinding-machine. No. 1,335,905; Apr. 6; v. 273; p. 38.

Mix, Melville W., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Laminated wheel-filler unit. No. 1,336,254; Apr. 6; v. 273; p. 104.

Moats, Ortus E., Chicago, assignor to Western Wheeled Scraper Company, Aurora, Ill. Road planing and finishing machine. No. 1,335,906; Apr. 6; v. 273; p. 38.

Mojonnier, Julius J., Oak Park, assignor, by mesne assignments, to Mojonnier Bros. Co., Chicago, Ill. Laboratory-dish. No. 1,336,043; Apr. 6; v. 273; p. 64.

Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)

Monahan Rotary Engine Corporation. (See Sullivan, Patrick J. M., assignor.)

Moon, William F., Milwaukee, Wis. Yarn-speck remover. No. 1,336,148; Apr. 6; v. 273; p. 84.

More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Gearing for washing-machines. No. 1,336,086; Apr. 6; v. 273; p. 72.

Morgans & Wilcox Mfg. Company. (See Hampson, Donald A., assignor.)

Morley, Henry, New Westminster, British Columbia, Canada. Jar-lifter. No. 1,336,255; Apr. 6; v. 273; p. 104.

Morrin, William J., New Britain, Conn. Removable flooring for elevator-shafts. No. 1,335,849; Apr. 6; v. 273; p. 27

Morse, Clyde V., Galesburg, Ill. Oil-cooling system for explosive-engines. No. 1,336,368; Apr. 6; v. 273; p. 125.

Morton, Dudley J., Wynnewood, Pa. Device for the prevention and treatment of deformed feet. No. 1,335,981; Apr. 6; v. 273; p. 53.

Motosacoche Societé Anonyme. (See Isliker, Albert, assignor.)

Moxon, George C., New York, N. Y. Paper-fastening clasp. No. 1,335,850; Apr. 6; v. 273; p. 27.

Moxon, George C., New York, N. Y. Envelop-clasp. No. 1,335,851; Apr. 6; v. 273; p. 27.

Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Die. No. 1,335,907; Apr. 6; v. 273; p. 38.

Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Die. No. 1,335,908; Apr. 6; v. 273; p. 39.

Muffly, Ross E., Canton, Ohio. Tire-chain. No. 1,336,369; Apr. 6; v. 273; p. 126.

Mulford, H. K., Company. (See Reichel, John, assignor.)

Mull, Benjamin H., Cleveland, Ohio. Airplane. No. 1,335,852; Apr. 6; v. 273; p. 27.

Mulvihill, Edward R., *et al.* (See Caywood, James A., assignor.)

Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Thermo-insulation material and producing same. No. 1,335,909; Apr. 6; v. 273; p. 39.

Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Reinforced fibrous board and producing same. No. 1,335,910; Apr. 6; v. 273; p. 39.

Muntz, George M., and E. M. Boubieu, assignors to Tropenas Company, Brooklyn, N. Y. Utilizing steel scrap. No. 1,336,256; Apr. 6; v. 273; p. 104.

Mussy, Ernest E., assignor of one-half to C. H. Ritterbush, Canton, Ohio. Lawn-mower. No. 1,336,257; Apr. 6; v. 273; p. 105.

Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,335,792; Apr. 6; v. 273; p. 17.

Myrick, George H., Chicago, Ill. Dish-washing machine. No. 1,335,853; Apr. 6; v. 273; p. 28.

National Lock Washer Company, The. (See Hoyt, Daniel, assignor.)

Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Overhead carrier. No. 1,336,370; Apr. 6; v. 273; p. 126.

Nelson, Andrew, and O. H. Hinnard, Chattanooga, Tenn. Non-skid wheel. No. 1,336,149; Apr. 6; v. 273; p. 84.

Nelson, Charles, and L. A. Coffeen, Denver, Colo. Beet-harvester. No. 1,336,313; Apr. 6; v. 273; p. 115.

Nelson, Oscar T., Cleveland, assignor of 50 per cent. to C. A. Barnhoith, Akron, Ohio. Internal-combustion engine. No. 1,336,371; Apr. 6; v. 273; p. 126.

Nelson, Oscar T., Cleveland, assignor 50 per cent. to C. A. Barnhoith, Akron, Ohio. Internal-combustion engine. No. 1,336,372; Apr. 6; v. 273; p. 126.

New Jersey Optical Co. (See Durgin, Edgar R., assignor.)

Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Water-pump. No. 1,336,258; Apr. 6; v. 273; p. 105.

Newbigin, Henry T., Newcastle-upon-Tyne, England. Lubrication of journal-bearings. No. 1,336,373; Apr. 6; v. 273; p. 126.

Nichols, William H., Pittsburgh, Pa. Chill-mold. No. 1,336,259; Apr. 6; v. 273; p. 105.

Nichols, William H., Pittsburgh, Pa. Chill-mold. No. 1,336,260; Apr. 6; v. 273; p. 105.

Niemczura, Aloysius, Amsterdam, N. Y. Calendar-clock. No. 1,336,150; Apr. 6; v. 273; p. 84.

Nolan, Francis A., St. Paul, Minn. Phonograph-stop. No. 1,335,911; Apr. 6; v. 273; p. 39.
Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
Norma Company of America, The. (See Mueller, Frederick E., assignor.)
Nyquist, Gust R., Fresno, Calif. Spring. No. 1,336,314; Apr. 6; v. 273; p. 115.
Oberreich, Charles W., Bucyrus, Ohio. Toy. No. 1,336,374; Apr. 6; v. 273; p. 127.
O'Brien, Henry G. (See Withers, J., and O'Brien.)
O'Callahan, John, Chicago, Ill. Curtain-frame. No. 1,335,854; Apr. 6; v. 273; p. 28.
O'Connor, John E., San Francisco, Calif. Typewriting-machine. No. 1,336,151; Apr. 6; v. 273; p. 85.
O'Leary, Daniel. (See Woods, Joseph M., assignor.)
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hardening-machine. No. 1,335,912; Apr. 6; v. 273; p. 39.
Olson, William O., assignor to The Marmon Chicago Company, Chicago, Ill. Spark-plug. No. 1,335,793; Apr. 6; v. 273; p. 17.
Orbom, Erick G., Williston, N. D. Universal joint. No. 1,335,913; Apr. 6; v. 273; p. 40.
Osborn, Henry C. (See Parkes, Walter, assignor.)
O'Shaughnessy, Patrick F., Brooklyn, N. Y. Vise attachment. No. 1,336,087; Apr. 6; v. 273; p. 72.
O'Shaughnessy, Patrick F., Brooklyn, N. Y. Fuel-heater for internal-combustion engines. No. 1,336,152; Apr. 6; v. 273; p. 85.
Oubridge, William A., Coventry, England. Piston-ring-hammering machine. No. 1,336,153; Apr. 6; v. 273; p. 85.
Owen, Frederick L., Boston, Mass. Garment-hanger. No. 1,336,375; Apr. 6; v. 273; p. 127.
Pacific Car & Foundry Co. (See Jarvis, Herbert C., assignor.)
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Framing device for motion-picture machines. No. 1,335,749; Apr. 6; v. 273; p. 9.
Parrott, Reginald J. (See Roe, A. V., and Parrott.)
Parsons Marine Steam Turbine Company, The. (See Black, David C., assignor.)
Pearson, Fred N., Chicago, Ill. Controlling mechanism for doors and the like. No. 1,335,750; Apr. 6; v. 273; p. 9.
Penn Seaboard Steel Corporation. (See Briner, Frank, assignor.)
Pennewill, James W., Silver City, N. Mex. Keyboard-cleaner. No. 1,336,044; Apr. 6; v. 273; p. 64.
Pentecost, Arthur, New York, N. Y., and W. W. Fisher, Fortyfort, Pa., assignors to Wales Adding Machine Company, Wilkes-Barre, Pa. Paper-carriage. No. 1,335,794; Apr. 6; v. 273; p. 17.
Peterson, Alex S., Bayonne, N. J. Window-rattling stop. No. 1,336,045; Apr. 6; v. 273; p. 65.
Peterson, Peter R., Salt Lake City, Utah. Rim-tool. No. 1,335,795; Apr. 6; v. 273; p. 17.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing an alloy of zirconium and lead. No. 1,335,982; Apr. 6; v. 273; p. 53.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing alloys containing zirconium carbid. No. 1,335,983; Apr. 6; v. 273; p. 53.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-beam fulcrum. No. 1,335,914; Apr. 6; v. 273; p. 40.
Philips, Herman B., New York, N. Y. Surgeon's plaster-knife. No. 1,336,376; Apr. 6; v. 273; p. 127.
Pierce, Henry H., Cambridge, Mass. Film-holder. No. 1,336,377; Apr. 6; v. 273; p. 127.
Pine Tree Milking Machine Company. (See Babson, Henry B., assignor.)
Pine, Wilber J., Oshkosh, Wis. Wire fabric. No. 1,336,154; Apr. 6; v. 273; p. 85.
Pinger, George C., New York, N. Y., assignor of one-half to Republic Iron and Steel Company. Apparatus for electroplating. No. 1,336,052; Apr. 6; v. 273; p. 66.
Piper, Clarence W., assignor to A. C. Wilcken, St. Paul, Minn. Bed-spring fabric. No. 1,335,984; Apr. 6; v. 273; p. 53.
Pitts, George B., trustee. (See Richardson, Charles F., assignor.)
Plemmons, Earl, Ashburn, Ga. Air-motor. No. 1,336,315; Apr. 6; v. 273; p. 115.
Pointon, John E., Peterborough, England. Bread-making machinery. No. 1,335,915; Apr. 6; v. 273; p. 40.
Polcho, Frank, Melvin, Mich. Pneumatic paint-brush. No. 1,336,316; Apr. 6; v. 273; p. 115.
Poremba, Thomas, Rome, N. Y. Combined cane and fish-rod. No. 1,336,088; Apr. 6; v. 273; p. 72.
Pottorff, Russell B., Waynesboro, Pa. Transfer device for fruit-jar machines. No. 1,336,317; Apr. 6; v. 273; p. 115.
Poynter, Ambrose M., London, England. Tire. No. 1,335,916; Apr. 6; v. 273; p. 40.
Pozzo Alberto, and G. Colonnetti, Turin, Italy. Apparatus for testing irons. No. 1,335,985; Apr. 6; v. 273; p. 53.
Presby, Leroy Q., Melrose, assignor to C. S. Luitwieler, Newton, and F. W. Merrick, Boston, Mass. Tool-holder. No. 1,336,155; Apr. 6; v. 273; p. 85.
Presteel Mfg. Company. (See Carlson, Androw H., assignor.)
Preston, Grace D., Spartanburg, S. C., assignor of two-fifths to A. G. Smith, Elyria, Ohio. Fastening device. No. 1,336,156; Apr. 6; v. 273; p. 85.
Prey, Herman C., Watertown, S. D. Electric clock and signal system. No. 1,336,318; Apr. 6; v. 273; p. 116.
Probst, George W., assignor of one-third to R. S. Probst and one-third to V. Probst, Lock Haven, Pa. Rail-joint. No. 1,335,751; Apr. 6; v. 273; p. 9.
Probst, Ray S., *et al.* (See Probst, George W., assignor.)
Probst, Verne, *et al.* (See Probst, George W., assignor.)
Pupin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Antenna with distributed positive resistance. No. 1,336,378; Apr. 6; v. 273; p. 127.
Quijano, Ramon, San Antonio, Tex. Fiber-cleaning device. No. 1,336,046; Apr. 6; v. 273; p. 65.
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Rakowski, Wladislaus, South Bethlehem, Pa. Curtain and portière hanger. No. 1,336,047; Apr. 6; v. 273; p. 65.
Ramsey, Joseph H., Albany, N. Y. Film-spool for photographic cameras. No. 1,335,917; Apr. 6; v. 273; p. 40.
Ratchford, Nicholas, Saratoga, Ind. Resilient wheel. No. 1,335,752; Apr. 6; v. 273; p. 9.
Ray, George W., and W. V. Harrington, Minneapolis, Minn.; said Ray assignor to said Harrington. Lamp-dimmer. No. 1,335,918; Apr. 6; v. 273; p. 40.
Read, Charles G., Buffalo, N. Y. Locking device for automobiles. No. 1,336,379; Apr. 6; v. 273; p. 127.
Read, Judson W., Denver, Colo. Butt-gage. No. 1,336,157; Apr. 6; v. 273; p. 86.
Ream, Gordon A., Detroit, Mich. Automatic circuit-opening switch for ignition systems. No. 1,336,158; Apr. 6; v. 273; p. 86.
Reedy, Maurice W., assignor of one-half to F. B. Shearer, Aurora, Ill. Railway signal system. No. 1,335,919; Apr. 6; v. 273; p. 41.
Reflecto-Metal Company, The. (See Hancock, Thomas, assignor.)
Reichel, John, assignor to H. K. Mulford Company, Philadelphia, Pa. Producing refined hog-cholera serum. No. 1,335,986; Apr. 6; v. 273; p. 53.
Reid, Alfred E., *et al.* (See Blankfield, George, assignor.)
Reid, James E., Moorestown, N. J., and C. Kienle, Philadelphia, Pa.; said Kienle assignor to said Reid. Dental instrument. No. 1,335,987; Apr. 6; v. 273; p. 54.
Reid, Royal G., Brooklyn, N. Y. Toy chime. No. 1,335,855; Apr. 6; v. 273; p. 28.
Remington Typewriter Company. (See Smith, Arthur W., assignor.)
Republic Iron and Steel Company. (See Pinger, George C., assignor.)
Rice, George W., Twin Falls, Idaho. System of irrigation-pipes. No. 1,336,048; Apr. 6; v. 273; p. 65.
Rice, Reynold J., Waterloo, Iowa. Wire-twisting machine. No. 1,336,159; Apr. 6; v. 273; p. 86.
Richardson, Charles F., Woonsocket, R. I., assignor, by mesne assignments, to G. B. Pitts, trustee, Cleveland, Ohio. Vending-machine. No. 1,336,389; Apr. 6; v. 273; p. 129.
Richards Thread Milling Machine Company (1918), The. (See Hardingham, George G. M., assignor.)
Riggs, Fletcher S., Marshall, Tex. Electric-light switch. No. 1,335,753; Apr. 6; v. 273; p. 10.
Ritterbush, Charles H. (See Muzzy, Ernest E., assignor.)
Riviere, Jean, New York, N. Y. Turning mechanism for motor-vehicles. No. 1,335,856; Apr. 6; v. 273; p. 28.
Rix, George T., Denver, Colo. Milk-bottle carrier. No. 1,336,049; Apr. 6; v. 273; p. 65.
Robbins, Daniel W., Metcalf, Ill. Combination rack and ironing-board. No. 1,335,857; Apr. 6; v. 273; p. 28.
Robinson-Roders Co., The. (See Young, Cyrus H., assignor.)
Roberts, James M., near St. Joseph, Mo. Vehicle-jack. No. 1,335,858; Apr. 6; v. 273; p. 29.
Robinson, William A., Minneapolis, Minn. Barrel-handling device. No. 1,335,796; Apr. 6; v. 273; p. 18.
Rockett, James, Cleveland, Ohio. Dust-proof and moth-proof wardrobe. No. 1,335,920; Apr. 6; v. 273; p. 41.
Roe, Alliott V., Hamble, Southampton, England. Apparatus for tilting planes on aerial craft. No. 1,336,160; Apr. 6; v. 273; p. 86.
Roe, Alliott V., Bursledon, near Southampton, and R. J. Parrott, Hedge End, near Southampton, England. Stabilizing-plane on aerial craft. No. 1,336,161; Apr. 6; v. 273; p. 86.
Rogginger, John, Chicago, Ill. Extension-table. No. 1,335,859; Apr. 6; v. 273; p. 29.
Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. No. 1,335,797; Apr. 6; v. 273; p. 18.
Rose, Osbourne J. (See Clayton, H. R. H., and Rose.)
Rosier, Charles, New York, N. Y. Apparatus for drying coated films. No. 1,336,050; Apr. 6; v. 273; p. 65.
Roth, Lucy. (See Roth, Matt and L.)
Roth, Matt and L., Muskogee, Okla. Combination shade and curtain holder. No. 1,336,051; Apr. 6; v. 273; p. 65.
Rothfuchs, Louis, assignor to The Warren Featherbone Company, Three Oaks, Mich. Automatic controlling attachment for looms. No. 1,336,089; Apr. 6; v. 273; p. 73.
Roubieu, Etienne M. (See Muntz, G. M., and Roubieu.)
Rowlett, Oliver, *et al.* (See Carroll, Andrew L., assignor.)

Royer, Edwin C., and E. J. Boyle, Philadelphia, Pa. Clench or expansion nail. No. 1,335,162; Apr. 6; v. 273; p. 87.
Rullman, David D., Omaha, Nebr. Operating device for washing-machines. No. 1,335,754; Apr. 6; v. 273; p. 10.
Rumple, Alva H., Des Moines, Iowa. Sawing-machine. No. 1,335,798; Apr. 6; v. 273; p. 18.
Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Pipe-coil. No. 1,335,799; Apr. 6; v. 273; p. 18.
Rust, Arthur E. (See Crouch, W. L., and Rust.)
Ruud, Edwin, Pittsburgh, Pa. Fluid-mixing apparatus. (Reissue.) No. 14,836; Apr. 6; v. 273; p. 133.
Rydberg, Helge S. A., Lund, Sweden. Diaphragm-sounder and the like. No. 1,335,921; Apr. 6; v. 273; p. 41.
Sacks, Herman, Chicago, Ill., assignor to A. T. Van Alstyn, Grand Rapids, Mich. Hose-supporter. No. 1,336,053; Apr. 6; v. 273; p. 66.
Safe-Cabinet Company, The. (See Dick, R. H., and Wolters, assignors.)
Safepack Mills. (See Schenkelberger, Albert E., assignor.)
Sampietro, Cornelius, Brooklyn, N. Y. Portable hygroscope. No. 1,336,380; Apr. 6; v. 273; p. 128.
Sams, Homer. (See Martin, B. W., and Sams.)
Sandby, Robert, Chicago, Ill. Permanently producing picture or like effects upon enameled metal surfaces. No. 1,335,755; Apr. 6; v. 273; p. 10.
Sangamo Electric Company. (See Emens, Albert L., assignor.)
Sargery, Joseph A., and O. Dupont, Sherbrooke, Quebec, Canada. Fountain-toothbrush. No. 1,336,390; Apr. 6; v. 273; p. 130.
Saulze, Antoine, Lyon, France. Autogenous-welding apparatus. No. 1,335,922; Apr. 6; v. 273; p. 41.
Scarff, Truman M., Springvalley, Ohio. Roofing. No. 1,335,756; Apr. 6; v. 273; p. 10.
Schacht, Julius, New York, N. Y. Danger-signal for automobiles. No. 1,336,381; Apr. 6; v. 273; p. 128.
Scharmann, Otto T., Marshfield, Wis. Water-circulating pump for combustion-engines. No. 1,336,091; Apr. 6; v. 273; p. 73.
Schaub, Eugene, Logan, Utah. Water stage and discharge recorder. No. 1,336,090; Apr. 6; v. 273; p. 73.
Schenkelberger, Albert F., Quincy, assignor to Safepack Mills, Boston, Mass. Protecting-holder for tennis-rackets and the like. No. 1,336,092; Apr. 6; v. 273; p. 73.
Schlingloff, William H., Jersey City, N. J. Phonograph-record holder. No. 1,336,382; Apr. 6; v. 273; p. 128.
Schmid, Christian, Philadelphia, Pa. Rust-preventing composition. No. 1,335,757; Apr. 6; v. 273; p. 10.
Schmidt, Benjamin F., Exeter, Calif. Safety device for firearms. No. 1,335,988; Apr. 6; v. 273; p. 54.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Classifying finely-divided material. No. 1,335,758; Apr. 6; v. 273; p. 10.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Road wheeled unit for artillery and other purposes. No. 1,335,759; Apr. 6; v. 273; p. 11.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety mechanism for use with gun breech-blocks comprising removable firing-tube holders. No. 1,336,093; Apr. 6; v. 273; p. 74.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Aiming apparatus for guns. No. 1,336,094; Apr. 6; v. 273; p. 74.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Single-trail gun-carriage. No. 1,336,095; Apr. 6; v. 273; p. 74.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety mechanism for use with gun breech-blocks comprising removable firing-tube holders. No. 1,336,096; Apr. 6; v. 273; p. 74.
Schneider, George X., Blue Island, assignor to the Curtain Supply Company, Chicago, Ill. Seat structure. No. 1,336,097; Apr. 6; v. 273; p. 75.
Schoute, Cornelis, De Bilt, near Utrecht; F. A. van Heyst, Soesterberg, and N. E. G. Meyer, Bosch en Duin, near Zeist, Netherlands. Apparatus for determining the position or the movement of a body or controlling the auxiliary devices dependent on said position or movement. No. 1,336,399; Apr. 6; v. 273; p. 131.
Schumacher, Charles F., Hillsboro, Ohio. Feeder. No. 1,336,320; Apr. 6; v. 273; p. 116.
Scintilla, Firm. (See Bohli, Jacques, assignor.)
Schoenwolf, Fred, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,336,098; Apr. 6; v. 273; p. 75.
Schrenkeisen, Arthur, New York, N. Y. Globe. No. 1,335,923; Apr. 6; v. 273; p. 41.
Scott, James G., Washington, D. C. Stove. No. 1,335,760; Apr. 6; v. 273; p. 11.
Scott, Lewis L., St. Louis, Mo. Combustion apparatus. No. 1,336,261; Apr. 6; v. 273; p. 105.
Scott, William D., Martins Ferry, Ohio. Rail-chair. No. 1,336,099; Apr. 6; v. 273; p. 75.
Searight-Downs Manufacturing Co. (See Evon, Louis C., assignor.)
Searle, Frederick B., Denver, Colo. Fire-door-operating device. No. 1,336,054; Apr. 6; v. 273; p. 66.
Sebald, George J., assignor of one-half to A. J. Holzhauer, Milwaukee, Wis. Utensil-guard. No. 1,335,761; Apr. 6; v. 273; p. 11.
Sebern, Edward N., *et al.* (See Caywood, James A., assignor.)
Selden Company, The. (See Andrews, Chester E., assignor.)
Semple, John B., Sewickley, Pa. Detonator-fuse. No. 1,336,391; Apr. 6; v. 273; p. 130.
Settlage, August C., New Bremen, Ohio. Dumping mechanism for trucks. No. 1,336,163; Apr. 6; v. 273; p. 87.
Shapiro, Herman, Cleveland, Ohio, assignor of one-half to A. E. Bernsteen and F. S. Day. Photograph-printing apparatus. No. 1,335,860; Apr. 6; v. 273; p. 29.
Shaw, James, St. Louis, Mo. Dust-cap for protecting automobile-tire valves. No. 1,335,861; Apr. 6; v. 273; p. 29.
Shearer, Fred B. (See Reedy, Maurice W., assignor.)
Shearer, Joe E., assignor to H. D. Lafferty, Oakland, Cal. Vehicle. No. 1,336,100; Apr. 6; v. 273; p. 75.
Sheldon, Aurin T. (See White, H. W., and Sheldon.)
Shimizu, Yoshi, New York, N. Y. Tire-chain fastener. No. 1,336,383; Apr. 6; v. 273; p. 128.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Motor-vehicle. No. 1,335,989; Apr. 6; v. 273; p. 54.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,335,990; Apr. 6; v. 273; p. 54.
Short, Charles R. and A. L. Cash, Detroit, Mich. Method and apparatus for making valves for internal-combustion engines. No. 1,335,862; Apr. 6; v. 273; p. 30.
Short, David S., Indianapolis, Ind. Spark-plug. No. 1,335,762; Apr. 6; v. 273; p. 11.
Shortell, William H., West Haven, Conn., assignor to Harlem Contracting Company, New York, N. Y. Block-press. No. 1,336,164; Apr. 6; v. 273; p. 87.
Sibley, Frederick H. (See Wellman, F. E., and Sibley.)
Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron, zirconium and titanium and production thereof. No. 1,335,991; Apr. 6; v. 273; p. 55.
Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York. Producing zirconium steel. No. 1,335,992; Apr. 6; v. 273; p. 55.
Sidwell, Benjamin W., Buffalo, N. Y., assignor to The Beaver Company. Wall-board size. No. 1,336,055; Apr. 6; v. 273; p. 66.
Siemens & Halske Aktiengesellschaft. (See Gerdien, Hans, assignor.)
Simmons Company. (See Brown, Harvey E., assignor.)
Simmons Company. (See Travis, D. C., and Kusterle, assignors.)
Simone, Joseph A. S., Inwood, N. Y. Adjustable window-screen. No. 1,336,101; Apr. 6; v. 273; p. 75.
Singletary, Emerson W. (See Bergeron, Clovis, assignor.)
Skopal, Carl, Lethbridge, Alberta, Canada. Gun-sight. No. 1,336,165; Apr. 6; v. 273; p. 87.
Smith, Arthur G. (See Preston, Grace D., assignor.)
Smith, Arthur L., Portland, Oreg. Internal-combustion motor. No. 1,336,392; Apr. 6; v. 273; p. 130.
Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,335,993; Apr. 6; v. 273; p. 55.
Smith, George F., Germantown, Pa. Auto-lock. No. 1,336,384; Apr. 6; v. 273; p. 129.
Smith, Henry J. (See De Graff, George A., assignor.)
Smith, John W., St. Helens, Oreg. Bevel. No. 1,336,102; Apr. 6; v. 273; p. 75.
Smith, Le Roy M., Chicago, Ill. Automatic liquid-measuring appliance. No. 1,335,800; Apr. 6; v. 273; p. 18.
Smith, T. L., Company, The. (See Brackenbury, Edward W., assignor.)
Smulski, Edward, Hastings-upon-Hudson, N. Y. Concrete-reinforcing means. No. 1,336,166; Apr. 6; v. 273; p. 87.
Snead & Co. Iron Works, The. (Macdonald, Harry P., assignor.)
Snell, William T., El Paso, Tex. Cylinder-grinding attachment for lathes. No. 1,335,994; Apr. 6; v. 273; p. 55.
Spaulding, George T., Cambridge, N. Y. Identification-tag. No. 1,335,995; Apr. 6; v. 273; p. 55.
Spencer, William O., assignor of one-half to E. E. George, Shreveport, La. Bomb. No. 1,335,996; Apr. 6; v. 273; p. 55.
Spery, Philmore F., Chicago, Ill. Radiator for motor-vehicles. No. 1,335,997; Apr. 6; v. 273; p. 56.
Spicer, James, and Sons. (See Holmes, James S., assignor.)
Spinasse, Arthur E., Mount Vernon, Ohio. Method of and apparatus for drawing glass. No. 1,336,056; Apr. 6; v. 273; p. 66.
Sponsler, Olenus L., M. E. Dunlap, and S. B. Henning, Madison, Wis., assignors to The United States of America. Manufacturing plywood. No. 1,336,262; Apr. 6; v. 273; p. 105.
Sprague Canning Machinery Company. (See Bucklin, Charles S., assignor.)
Spring, Frederick L., Indianapolis, Ind. Shock-absorbing spring. No. 1,336,167; Apr. 6; v. 273; p. 88.
Springfield Motors Company. (See Hedenstrom, Ernest E. G., assignor.)
Sprinkell, William A., Springfield, Ill. Safety-razor-blade protector. No. 1,335,863; Apr. 6; v. 273; p. 30.
Stahl, Henry C., Pompeys Pillar, Mont. Combined umbrella-stand and pedestal. No. 1,336,321; Apr. 6; v. 273; p. 116.

Standard Detroit Tractor Co. (See Jacobs, George S., assignor.)
Standard Engineering Company. (See Newcomb, Edward C., assignor.)
Stansell, Arthur L., Nashville, Tenn. Parcel-binder. No. 1,336,168; Apr. 6; v. 273; p. 88.
Star Device Manufacturing Company. (See Stone, Lloyd B., assignor.)
Starr, John W., Charleston, Wash. Kerosene-burner for ranges. No. 1,336,103; Apr. 6; v. 273; p. 76.
Stebler, Fred. (See Bryan, Edgar J., assignor.)
Steere, Albert L., Petersburg, Va. Shaker-operating mechanism. No. 1,336,322; Apr. 6; v. 273; p. 116.
Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,335,801; Apr. 6; v. 273; p. 18.
Stevenson Gear and Manufacturing Company. (See Stevenson, George E., assignor.)
Stevenson, George E., assignor to Stevenson Gear and Manufacturing Company, Indianapolis, Ind. Multiple shaper. No. 1,335,864; Apr. 6; v. 273; p. 30.
Stevenson, John R., Glasgow, Scotland. Stentering or stretching device applicable to heated cylindrical can-drying machines and the like for textile fabrics. No. 1,336,385; Apr. 6; v. 273; p. 129.
Stewart, Edwin F., Hopewell, N. J. Feeder for boiler compounds. No. 1,335,802; Apr. 6; v. 273; p. 19.
Stewart, Thomas W., Kalamazoo, Mich. Game-board. No. 1,336,109; Apr. 6; v. 273; p. 88.
Stewart-Warner Speedometer Corporation. (See Hjorth, Oscar E., assignor.)
Stewart-Warner Speedometer Corporation. (See Muzzy, William H., assignor.)
Stoits, Edmund G., Granite City, Ill. Closet flush-valve. No. 1,335,763; Apr. 6; v. 273; p. 11.
Stone, Lloyd B., Tacoma, assignor to Star Device Manufacturing Company, King county, Wash. Impulse pressure-gage. No. 1,336,104; Apr. 6; v. 273; p. 76.
St. Onge, Alexander, assignor of one-half to M. I. Thomson, Sheffield, Mass. Griddle-greaser. No. 1,335,998; Apr. 6; v. 273; p. 56.
Stout, Elvin M., Nevis, Minn. Coupling. No. 1,336,823; Apr. 6; v. 273; p. 116.
Stover, Charley, Coats, Kans. Sash-hinge. No. 1,335,999; Apr. 6; v. 273; p. 56.
Stroud, John R., Scenery Hill, Pa. Safety device for elevators. No. 1,336,170; Apr. 6; v. 273; p. 88.
Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Clutch-releasing mechanism for automobiles. No. 1,336,000; Apr. 6; v. 273; p. 56.
Suedmeyer, Louis, St. Louis, Mo. Tobacco-pipe. No. 1,336,393; Apr. 6; v. 273; p. 130.
Sullivan, Patrick J. M., Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y. Internal-combustion engine. No. 1,335,764; Apr. 6; v. 273; p. 12.
Sulman, Henry L., and S. Field, assignors to The Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,336,386; Apr. 6; v. 273; p. 129.
Super, Frank J., assignor of twenty-four and one-half per cent. to W. H. Blevins and fifty-one per cent. to W. J. Milne, Portland, Oreg. Davit. No. 1,336,394; Apr. 6; v. 273; p. 130.
Sutton, Frank M., San Francisco, Calif. Electric oven. No. 1,336,105; Apr. 6; v. 273; p. 76.
Svenska Turbinfabriks Aktiebolaget Ljungström. (See Wiberg, Oscar A., assignor.)
Swanson, Oscar S., Jamestown, N. Y. Lamp-socket construction. No. 1,336,395; Apr. 6; v. 273; p. 130.
Swensen, Alfred Cicero, assignor to The Cable Company, Chicago, Ill. Air-pump. No. 1,336,396; Apr. 6; v. 273; p. 131.
Tamietti, Peter V., Monrovia, Calif. Signal for vehicles. No. 1,336,100; Apr. 6; v. 273; p. 76.
Tarbox, John P., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Convertible multiplane. No. 1,336,400; Apr. 6; v. 273; p. 132.
Tarr, Frank J. (See McCoy, H. E., and Tarr.)
Tate, William R. (See Greenwood, H. C., and Tate.)
Thomas, Edward W., Luton, England. Self-propelled agricultural implement. No. 1,336,057; Apr. 6; v. 273; p. 67.
Thomas, George. (See Lachman, P., and Thomas.)
Thomson, John E., Glen Ridge, N. J. Rear-axle differential for power-driven vehicles. No. 1,336,107; Apr. 6; v. 273; p. 76.
Thompson, Mary I. (See St. Onge, Alexander, assignor.)
Thordarson, Chester H., Chicago, Ill. Transformer-mounting. No. 1,336,808; Apr. 6; v. 273; p. 19.
Thorn & Hoddle Acetylene Company. (See Hoddle, Charles, assignor.)
Tideman, Sven, Columbus, Ohio. Chronometer-escapement. No. 1,336,268; Apr. 6; v. 273; p. 106.
Tilton, Edgar C. (See Frisbie, J. M., and Tilton.)
Trabert, Hermann, Brooklyn, N. Y. Walking doll. No. 1,335,804; Apr. 6; v. 273; p. 19.
Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Means for forming oil-cakes. No. 1,336,171; Apr. 6; v. 273; p. 88.
Tranchant, Frank A. (See Long, Levett A., assignor.)
Tranmer, Fred., assignor of one-half to W. A. Hills, Gordon, Nebr. Ankle-brace and arch-support. No. 1,336,001; Apr. 6; v. 273; p. 56.
Travis, Don C., and F. Kusterle, assignors to Simmons Company, Kenosha, Wis. Bed-bottom hanger. No. 1,336,397; Apr. 6; v. 273; p. 131.
Traylor Engineering & Mfg. Co., The. (See Bernhard, Richard, assignor.)
Trew, James S., assignor of one-half to H. C. Burke, Santa Ana, Calif. Ball-receptacle for pocket-billiard tables. No. 1,335,924; Apr. 6; v. 273; p. 41.
Tripp, Charles A., Wilmington, Del., assignor to Holcomb and Hoke M'f'g Co., Indianapolis, Ind. Cooling means for liquid-dispensing devices. No. 1,330,172; Apr. 6; v. 273; p. 89.
Tropenas Company. (See Munts, G. M., and Roubieu, assignors.)
Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Metal-working feeding mechanism. No. 1,336,108; Apr. 6; v. 273; p. 77.
Troy Laundry Machinery Co. (See Hoting, Hans C., assignor.)
Trueb, Rudolph O., Murray Hill Park, N. J. Implement for threading embroidery-beads. No. 1,335,805; Apr. 6; v. 273; p. 19.
Trueb, Rudolph O., Murray Hill Park, N. J. Embroidery-frame. No. 1,335,806; Apr. 6; v. 273; p. 19.
Trull, Lyman A., assignor of one-half to O. Heath, Brockton, Mass. Clamp for use in trimming boot and shoe heels. No. 1,336,002; Apr. 6; v. 273; p. 57.
Trullinger, Charles H., San Francisco, Calif. Combination eye-cup and container. No. 1,336,109; Apr. 6; v. 273; p. 77.
Turcan, John, South Akron, Ohio. Torpedo discharge for submarines. No. 1,336,110; Apr. 6; v. 273; p. 77.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-truck mechanism. No. 1,336,267; Apr. 6; v. 273; p. 129.
Turner, Charles, Irlam, England. Destructive distillation. No. 1,336,264; Apr. 6; v. 273; p. 106.
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Antispinning device. No. 1,336,265; Apr. 6; v. 273; p. 106.
Tittsch, Conrad, Winterthur, Switzerland. Bleaching-boiler plant. No. 1,335,925; Apr. 6; v. 273; p. 42.
Twiss, Douglas F., assignor to The Dunlop Rubber Company, Limited, Birmingham, England. Reclaiming rubber. No. 1,335,926; Apr. 6; v. 273; p. 42.
U. S. Compression Inner Tube Company. (See Voorhees, John J., Jr., assignor.)
U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
Ullrich, Rudolf, Newburgh, N. Y. Expansion-joint. No. 1,336,111; Apr. 6; v. 273; p. 77.
Underwood Typewriter Company. (See Dobson, William A., assignor.)
Union Electric Mfg. Co. (See Campbell, Harry E., assignor.)
United Shoe Machinery Corporation. (See Ashton, Orvell, assignor.)
United States Ferro-Alloys Corporation. (See Petinot, Napoleon, assignor.)
United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)
United States of America, The. (See Sponsler, O. L., Dunlap, and Henning, assignors.)
United-Xpedite Finishing Company. (See Julian, Gideon J., assignor.)
Universal Elevated Railway Co. (See McClure, R. A., and Boulton, assignors.)
V. & N. Lantern Co., The. (See Vinton, Frederick W., assignor.)
Van Alystyn, Albert T. (See Sacks, Herman, assignor.)
Van Demark, Chester A., Kingston, N. Y. Mattress-holder. No. 1,336,003; Apr. 6; v. 273; p. 57.
Van Heyst, Floris A. (See Schoute, C., Van Heyst and Meyer.)
Vapor Car Heating Company. (See Russell, Edward A., assignor.)
Viard, Eugène L., Bar-sur-Seine, and F. A. Bouillit, Levallois-Perret, France. Elastic suspension of cycles. No. 1,335,765; Apr. 6; v. 273; p. 12.
Victoria, Henry J., Hull, Iowa. Building-stake. No. 1,336,004; Apr. 6; v. 273; p. 57.
Vincent, Edward H., Detroit, Mich. Locking steering-wheel. No. 1,335,865; Apr. 6; v. 273; p. 30.
Vinton, Frederick W., Weehawken, N. J., assignor to The V. & N. Lantern Co., Inc. Lantern. No. 1,336,112; Apr. 6; v. 273; p. 77.
Von Engeln, Harry F., Ludell, Kans. Wheat-stacker. No. 1,336,005; Apr. 6; v. 273; p. 57.
Voorhees, John J., Jr., Jersey City, N. J., assignor, by mesne assignments, to U. S. Compression Inner Tube Company, Tulsa, Okla. Inner tube for pneumatic tires. No. 1,336,173; Apr. 6; v. 273; p. 89.
Vorhauer, George F., New Brighton, Pa., assignor to W. D. Craft, Newark, N. J. Flexible file. No. 1,335,866; Apr. 6; v. 273; p. 30.
Waern, James D., South Melbourne, Victoria, Australia. Metal building unit. No. 1,336,324; Apr. 6; v. 273; p. 117.
Wales Adding Machine Company. (See Briechle, Ambrosius, assignor.)
Wales Adding Machine Company. (See Pentecost, A., and Fisher, assignors.)

Walker, William, Langside, Glasgow, assignor to John MacDonald & Son Limited, Maryhill, Glasgow, Scotland. Support for pneumatic tools. No. 1,335,807; Apr. 6; v. 273; p. 20.
Wallace, Duncan M. (See Guthrie, William, assignor.)
Walton, Charles S., Philadelphia, Pa. Drum tightening-gear. No. 1,335,867; Apr. 6; v. 273; p. 30.
Warren, Clyde W., Sauk Rapids, Minn. Porch-shade. No. 1,336,326; Apr. 6; v. 273; p. 117.
Warren Featherbone Company, The. (See Rothfuchs, Louis, assignor.)
Watrous, Earl G., Chicago, Ill. Lavatory. No. 1,335,946; Apr. 6; v. 273; p. 45.
Way, John H., Philadelphia, Pa. Concealed or invisible butt-hinge. No. 1,336,174; Apr. 6; v. 273; p. 89.
Weagant, Roy A., New York, N. Y., assignor to Radio Corporation of America. Radiosignaling apparatus. No. 1,336,398; Apr. 6; v. 273; p. 131.
Weary, John, assignor of one-half to W. W. Littlehales, Mount Carmel, Pa. Car-coupling. No. 1,335,868; Apr. 6; v. 273; p. 31.
Weathersby, Fred R., Houston, Tex. Drill. No. 1,336,006; Apr. 6; v. 273; p. 57.
Webster & Perks Tool Company, The. (See Mitchell, Raymond C., assignor.)
Webull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-bearing. No. 1,335,766; Apr. 6; v. 273; p. 12.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Production of mats of fibrous material. No. 1,336,402; Apr. 6; v. 273; p. 132.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite insulating material. No. 1,336,403; Apr. 6; v. 273; p. 132.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite insulating material. No. 1,336,404; Apr. 6; v. 273; p. 132.
Welke, Ferdinand G., San Francisco, Calif. Internal-combustion engine. No. 1,335,947; Apr. 6; v. 273; p. 46.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining oil. No. 1,335,767; Apr. 6; v. 273; p. 12.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Process of and apparatus for refining liquid hydrocarbons. No. 1,335,768; Apr. 6; v. 273; p. 12.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. System for cracking mineral oil. No. 1,335,769; Apr. 6; v. 273; p. 13.
Wellman, Frank E., and F. H. Sibley, assignors to The Kansas City Gasoline Company, Kansas City, Kans. System for treating hydrocarbon oils. No. 1,335,770; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for cracking hydrocarbons. No. 1,335,771; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining oil. No. 1,335,772; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining mineral oils. No. 1,335,773; Apr. 6; v. 273; p. 14.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Liquid-heating furnace. No. 1,335,774; Apr. 6; v. 273; p. 14.
Wellman, Seth A., Mason City, Iowa. Ventilating means. No. 1,335,948; Apr. 6; v. 273; p. 46.
Western Electric Company. (See Keckler, Charles W., assignor.)
Western Wheeled Scraper Company. (See Moats, Ortus E., assignor.)
Wetmore, Charles P., assignor to Durant Manufacturing Company, Milwaukee, Wis. Counter. No. 1,336,113; Apr. 6; v. 273; p. 78.
White, Henry W., and A. T. Sheldon, Moline, Ill. Anti-skid device. No. 1,336,175; Apr. 6; v. 273; p. 89.
White, Thomas, Talmage, Ky. Coupling. No. 1,336,326; Apr. 6; v. 273; p. 117.
Whited, Samuel J. B., Shreveport, La. Dust and lint collecting system. No. 1,336,007; Apr. 6; v. 273; p. 57.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming a forged fulcrum. No. 1,335,808; Apr. 6; v. 273; p. 20.
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,336,008; Apr. 6; v. 273; p. 58.
Wiberg, Oscar A., assignor to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Steam or gas turbine plant. No. 1,335,775; Apr. 6; v. 273; p. 14.
Wilcken, Adolph C. (See Piper, Clarence W., assignor.)
Wilczynski, Józef, assignor of one-half to M. Dominski, Detroit, Mich. Railway-switch. No. 1,336,114; Apr. 6; v. 273; p. 78.
Williams, Claud S. (See Jones, William E., assignor.)
Williams, Homer D., Pittsburgh, and W. Ahlen, Duquesne, Pa. Metal-heating furnace. No. 1,336,266; Apr. 6; v. 273; p. 106.
Williams, Ormsby P., Trout Lake, Wash. Vertical cutter-bar attachment for harvesters. No. 1,336,267; Apr. 6; v. 273; p. 106.
Willys, John W. (See Hagemeyer, Henry F., assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Wilmer, William H., Washington, D. C. Eye-shield. No. 1,336,009; Apr. 6; v. 273; p. 58.
Wilmot, Benjamin A., Chicago, Ill. Road-indicator. No. 1,336,268; Apr. 6; v. 273; p. 106.
Wilson, Charles D., assignor to M. M. Wilson, Syracuse, N. Y. Removable oven. No. 1,336,058; Apr. 6; v. 273; p. 67.
Wilson, Edward F., Webster Groves, Mo. Card index and display device. No. 1,336,115; Apr. 6; v. 273; p. 78.
Wilson, Marguerite M. (See Wilson, Charles D., assignor.)
Wilson, Robert E., Washington, D. C., and C. P. McNeil, Astoria, N. Y. Soda-lime composition and preparing same. No. 1,335,949; Apr. 6; v. 273; p. 46.
Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,336,116; Apr. 6; v. 273; p. 78.
Winchester, William I., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif. Fruit-grader. No. 1,336,059; Apr. 6; v. 273; p. 67.
Wingate, Walter, Victoria, British Columbia, Canada. Bearing-finder. No. 1,336,010; Apr. 6; v. 273; p. 58.
Wisner, C. N., Cotton Picker Co. (See Wisner, Clark N., assignor.)
Wisner, Clark N., assignor to C. N. Wisner Cotton Picker Co., Incorporated, New Orleans, La. Cotton-picker head. No. 1,336,176; Apr. 6; v. 273; p. 89.
Withers, Joseph, and H. G. O'Brien, Warren, Ohio. Roll-driving connection. No. 1,336,177; Apr. 6; v. 273; p. 90.
Witty, George, New York, N. Y. Cement. No. 1,336,178; Apr. 6; v. 273; p. 90.
Wlodkowski, Wladyslaw, Lynn, Mass. Driving mechanism for brushing and polishing apparatus. No. 1,336,117; Apr. 6; v. 273; p. 78.
Wolters, Carl F. (See Dick, R. H., and Wolters.)
Wood, William W., Tacoma, Wash. Barrel. No. 1,336,011; Apr. 6; v. 273; p. 58.
Woods, James A., Wichita, Kans. Handhole-plate. No. 1,336,012; Apr. 6; v. 273; p. 58.
Woods, Joseph M., assignor to D. O'Leary, Chicago, Ill. Resilient wheel. No. 1,336,060; Apr. 6; v. 273; p. 67.
Worthington, Henry R. (See Berrigan, John J., assignor.)
Wright, Bessie B. (See Wright, William S., assignor.)
Wright, Charles W., Washington, D. C. Concentrating-table. No. 1,336,327; Apr. 6; v. 273; p. 117.
Wright, Ray, Jackson, Miss. Roof for buildings. No. 1,336,118; Apr. 6; v. 273; p. 79.
Wright, William S., Newark, Ohio, assignor to B. B. Wright, Annapolis, Md. Railway-car seat. No. 1,335,950; Apr. 6; v. 273; p. 46.
Wuepper, John. (See Erbel, A., and Wuepper.)
Youmans, George P., Galesburg, assignor to Kalamazoo Tank & Silo Company, Kalamazoo, Mich. Wall-structure. No. 1,336,179; Apr. 6; v. 273; p. 90.
Young, Cyrus H., assignor to The Robinson-Rodgers Co., Inc., Newark, N. J. Jacket-type life-preserver. No. 1,336,400; Apr. 6; v. 273; p. 131.
Young, Gus B., Des Moines, Iowa. Steriliser attachment for hypodermic syringes. No. 1,336,061; Apr. 6; v. 273; p. 67.
Young, William H., Denver, Colo. Infant-seat. No. 1,335,776; Apr. 6; v. 273; p. 14.
Youngberg, Chester W., San Francisco, Calif. Die. No. 1,336,388; Apr. 6; v. 273; p. 129.
Zobell, William, Odell, Ill. Float-operated circuit-breaker. No. 1,336,269; Apr. 6; v. 273; p. 107.
Zelaya, José S., New York, N. Y. Corn and callous remover. No. 1,335,777; Apr. 6; v. 273; p. 14.
Ziegler, Crawford, Barberton, Ohio. Tire wrapping and unwrapping apparatus. No. 1,336,328; Apr. 6; v. 273; p. 118.
Ziegler, Crawford, Barberton, Ohio. Tire wrapping and unwrapping apparatus. No. 1,336,329; Apr. 6; v. 273; p. 118.
Zimmerman, Fred H. (See Giebel, J., and Zimmerman.)
Zimmerman, John, Brooklyn, N. Y. Record-index envelop. No. 1,336,270; Apr. 6; v. 273; p. 107.
Zuckerman, Samuel G., New York, N. Y. Inscription-printing attachment for cameras. No. 1,336,330; Apr. 6; v. 273; p. 118.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Blanck & Co. (See Davis, Elizabeth A., assignor.)
Blanck & Company. (See Kallman, William K., assignor.)
Blanck & Company. (See Meyer, Felix, assignor.)
Campbell, James A., Chicago, Ill. Eyebrow-brush. No. 54,815; Apr. 6; v. 273; p. 135.
Davis, Elizabeth A., assignor to Blanck & Co., Inc., New York, N. Y. Lace. No. 54,816; Apr. 6; v. 273; p. 135.
Kallman, William K., assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 54,817–20; Apr. 6; v. 273; pp. 135–6.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 54,821–2; Apr. 6; v. 273; p. 136.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abel Bros. & Co., Inc., New York, N. Y. Rings, brooches, bar-pins, lavallières. No. 130,025; Apr. 6; v. 273; p. 179.
Adler, Stella, St. Louis, Mo. Dolls. No. 130,038; Apr. 6; v. 273; p. 179.
Agra Company, The, Detroit, Mich. Soaps. No. 130,024; Apr. 6; v. 273; p. 179.
Allcock, S., & Co. Limited, Redditch, England. Sproat-hooks and other fishhooks. No. 130,026; Apr. 6; v. 273; p. 179.
American Limestone Company, Mascot, Tenn. Pulverized limestone. No. 130,027; Apr. 6; v. 273; p. 179.
American Pure Food Process Co., Baltimore, Md. Jar-caps. No. 130,036; Apr. 6; v. 273; p. 179.
American Steel Export Company, New York, N. Y. Metal bridges, wooden ties, metal telegraph and telephone poles and parts, &c. No. 130,028; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Cigarettes and tobacco. No. 130,035; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,029; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,030; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,034; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking-tobacco and cigarettes. No. 130,031; Apr. 6; v. 273; p. 179.
Automatic Electric Washer Co., Newton, Iowa. Laundry power washing-machines. No. 130,037; Apr. 6; v. 273; p. 179.
Baker and Company Incorporated, Newark, N. J. Gold alloy for dental clasps and the like. No. 130,039; Apr. 6; v. 273; p. 179.
Baker and Company Incorporated, Newark, N. J. White gold for dental shells and plates. No. 130,040; Apr. 6; v. 273; p. 179.
Beach Leather Company, Coshocton, Ohio. Pocket-books. No. 130,041; Apr. 6; v. 273; p. 179.
Blue Bird Manufacturing Company, St. Louis, Mo. Clothes-washing machines. No. 130,042; Apr. 6; v. 273; p. 179.
Brainol Manufacturing Co., Jacksonville, Fla. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 130,043; Apr. 6; v. 273; p. 179.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Billiard and pocket-billiard balls. No. 130,044; Apr. 6; v. 273; p. 179.
Buda Company, Chicago, Ill. Railway hand-cars. No. 130,045; Apr. 6; v. 273; p. 179.
Campbell, Edward H., Highwood, Mont. Non-alcoholic maltless beverage. No. 130,046; Apr. 6; v. 273; p. 179.
Campbell, James A., Chicago, Ill. Eyebrow-brushes. No. 130,047; Apr. 6; v. 273; p. 179.
Castle Kid Co., Camden, N. J. Leather for shoes. No. 130,048; Apr. 6; v. 273; p. 179.
Chicago Hardware Foundry Company, North Chicago, Ill. Furniture. No. 130,049; Apr. 6; v. 273; p. 179.
Chicago Paper Company, Chicago, Ill. Paper. No. 130,050; Apr. 6; v. 273; p. 179.
China, Japan & South America Trading Co., Ltd., New York, N. Y. Cotton, silk and wool piece goods. No. 130,051; Apr. 6; v. 273; p. 179.
Consolidated Creameries, Inc., New York, N. Y. Canned condensed milk. No. 130,052; Apr. 6; v. 273; p. 179.
Contra-Pole Electric Company, Inc., New York, N. Y. Electrotherapeutic apparatus for generating high-frequency currents. No. 130,053; Apr. 6; v. 273; p. 180.
Cook, Homer F., Hadley, Mass. Corn brooms. No. 130,054; Apr. 6; v. 273; p. 180.
Dafoe-Eustice Company, Detroit, Mich. Coal-bags. No. 130,057; Apr. 6; v. 273; p. 180.
De Luxe Clock & Mfg. Co. Inc., New York, N. Y. Alarm-clock and other clocks. No. 130,058; Apr. 6; v. 273; p. 180.
De Pew, Thomas H., Canton, Ohio. Phonographs and records. No. 130,059; Apr. 6; v. 273; p. 180.
Derryvale Linen Company, New York, N. Y. Textiles. Nos. 130,060–1; Apr. 6; v. 273; p. 180.
Detroit Vapor Stove Company, The, Detroit, Mich. Gas, oil, and coal burning stoves. No. 130,062; Apr. 6; v. 273; p. 180.
Emerson Phonograph Company, Inc., New York, N. Y. Phonograph-records. No. 130,063; Apr. 6; v. 273; p. 180.
Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 130,064; Apr. 6; v. 273; p. 180.
Fuld, William, Baltimore, Md. Game known as a talking-board. No. 130,142; Apr. 6; v. 273; p. 182.
Gilbert, Frederick G., New Haven, Conn. Cigars, cigarettes, and tobacco. No. 130,065; Apr. 6; v. 273; p. 180.
Hardin, Hamilton & Lewman, Louisville, Ky. Field-seeds. No. 130,066; Apr. 6; v. 273; p. 180.
Harrison, Benjamin V., Co., New York, N. Y. Imitation leather. No. 130,067; Apr. 6; v. 273; p. 180.
Hartman Trunk Co., Racine, Wis. Trunks. No. 130,068; Apr. 6; v. 273; p. 180.
Hatheway, Chauncey H., Greenwich, Conn. Game of the board-and-disk type. No. 130,069; Apr. 6; v. 273; p. 180.
Havana Commercial Company, New York, N. Y. Cigars. No. 130,070; Apr. 6; v. 273; p. 180.
Heller, L., & Son, Providence, R. I. Imitation-pearl necklaces. No. 130,071; Apr. 6; v. 273; p. 180.
Hills Brothers Company, New York, N. Y. Cigarettes. No. 130,072; Apr. 6; v. 273; p. 180.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 130,073; Apr. 6; v. 273; p. 180.
Hygienic Fibre Company, Versailles, Conn., and New York, N. Y. Absorbent cotton, surgical gauze, gauze bandages. No. 130,074; Apr. 6; v. 273; p. 180.
International Harvester Company, Chicago, Ill. Rope, cord, twine, and binder-twine. No. 130,075; Apr. 6; v. 273; p. 180.
Irvin-Smith Company, Chicago, Ill. Box parlor game. No. 130,101; Apr. 6; v. 273; p. 181.
John Curtin Corp., New York, N. Y. Hammocks. No. 130,056; Apr. 6; v. 273; p. 180.
Jonkopings & Vulcans Tandsticksfabrik Aktiebolag. (See Stromborg Export & Import Co. Inc., assignor.)
Kaelin, Henry, & Son, Brooklyn, N. Y; Baltimore, Md., and Habana, Cuba. Fresh vegetables. No. 130,076; Apr. 6; v. 273; p. 180.
Kellogg, W. B., Co., Inc., New York, N. Y. Set and unset pearls and imitation peals. No. 130,077; Apr. 6; v. 273; p. 180.
Khouri, E. G., & Bro., New York, N. Y. Snap-fasteners and buttons suitable for wearing-apparel. No. 130,078; Apr. 6; v. 273; p. 180.
Knowles, Taylor & Knowles Company, East Liverpool, Ohio. Table-pottery. No. 130,079; Apr. 6; v. 273; p. 180.
Kobayashi, Frank T., Los Angeles, Calif. Poison foods. No. 130,080; Apr. 6; v. 273; p. 180.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Washboards. No. 130,081; Apr. 6; v. 273; p. 180.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Lamp-chimneys. No. 130,082; Apr. 6; v. 273; p. 180.
Larus & Brother Company, Richmond, Va. Plug-tobacco. No. 130,083; Apr. 6; v. 273; p. 180.
Lennon, John F., Providence, R. I. Wheat-flour. No. 130,084; Apr. 6; v. 273; p. 180.
Levor, Victor, Attica, Ind. Cigars. No. 130,085; Apr. 6; v. 273; p. 180.
Levy, George C., New York, N. Y. Catamenial bandage. No. 130,086; Apr. 6; v. 273; p. 180.
Liggett & Myers Tobacco Company, New York, N. Y. Tobacco and cigarettes. No. 130,087; Apr. 6; v. 273; p. 180.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 130,088; Apr. 6; v. 273; p. 180.
Lockwood, John M., Jr., West Hoboken, N. J. Dolls. No. 130,089; Apr. 6; v. 273; p. 181.
Meyer, John J., New York, N. Y. Cleaning compound. No. 130,090; Apr. 6; v. 273; p. 181.

Milwaukee Talking Machine Manufacturing Co., Milwaukee, Wis. Phonographs and phonograph-cabinets. No. 130,091; Apr. 6; v. 273; p. 181.
Modernola Co., Somerset, Pa. Talking-machines. No. 130,092; Apr. 6; v. 273; p. 181.
Mount Royal Corporation, New York, N. Y. Military insignia. No. 130,093; Apr. 6; v. 273; p. 181.
Northern Waste Co., Boston, Mass. Cotton-waste. No. 130,094; Apr. 6; v. 273; p. 181.
Omo Mfg. Co., Middletown, Conn. Sanitary belts, aprons, and gum-tissue for surgical purposes. Nos. 130,097–8; Apr. 6; v. 273; p. 181.
Orkin, Samuel, Company, Cambridge, Mass. Mechanical toys. No. 130,099; Apr. 6; v. 273; p. 181.
Outerbridge, Theodore, Sunnylands, Bermuda. Lily-bulbs. No. 130,100; Apr. 6; v. 273; p. 181.
Patterson, M. F., Dental Supply Company, Chicago, Ill., and St. Paul, Minn. Alloy for metal for dental inlays and bridgework. No. 130,095; Apr. 6; v. 273; p. 181.
Phoenix Horse Shoe Co., Chicago, Ill. Metal horse and mule shoes. No. 130,102; Apr. 6; v. 273; p. 181.
Pianissimo Player Action Co., Camden, N. J., and Philadelphia, Pa. Phonograph-cabinets. No. 130,096; Apr. 6; v. 273; p. 181.
Pioneer Broom Company, Inc., Amsterdam, N. Y. Brooms. No. 130,103; Apr. 6; v. 273; p. 181.
Poland Export Corporation, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,104; Apr. 6; v. 273; p. 181.
Rodenberg, M. S. Co., Providence, R. I. Neck-chains, watch-chains, and swivels for such chains. No. 130,105; Apr. 6; v. 273; p. 181.
Rudin, Emil A., Toronto, Ontario, Canada. Package-binders and parts thereof. No. 130,106; Apr. 6; v. 273; p. 181.
Schroeder & Tremayne, St. Louis, Mo. Sponges and chamois. No. 130,107; Apr. 6; v. 273; p. 181.
Sears, Roebuck & Company, Chicago, Ill. Sole-leather. No. 130,108; Apr. 6; v. 273; p. 181.
Seidenberg, R. J., Co., Buffalo, N. Y. Cigars, cigarettes, and smoking and chewing tobacco. No. 130,109; Apr. 6; v. 273; p. 181.
Simmons Hardware Company, St. Louis, Mo. Shaving-brushes. No. 130,110; Apr. 6; v. 273; p. 181.
Simonson, A., New York, N. Y. Toilet preparations. No. 130,111; Apr. 6; v. 273; p. 181.
Single, John, Syracuse, N. Y. Paper bags. No. 130,112; Apr. 6; v. 273; p. 181.
Southern Candy Company, Tampa, Fla. Candies. No. 130,113; Apr. 6; v. 273; p. 181.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Tractors. No. 130,115; Apr. 6; v. 273; p. 181.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Automobiles, automobile-bodies, motor-trucks, truck-trailers. No. 130,114; Apr. 6; v. 273; p. 181.
Standard Steel Corp., Milwaukee, Wis. Chemical closets. No. 130,116; Apr. 6; v. 273; p. 181.
Stanley Works, New Britain, Conn. Buckles. No. 130,117; Apr. 6; v. 273; p. 181.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Warning-signals. No. 130,118; Apr. 6; v. 273; p. 181.
Story & Clark Piano Company, Chicago, Ill. Pianos, piano-players, and organs. Nos. 130,019–20; Apr. 6; v. 273; p. 181.
Stromborg Export & Import Co., Inc., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik, Jönköping, Sweden. Matches. Nos. 130,121–8; Apr. 6; v. 273; p. 182.
Tri-City Sales Company, Cincinnati, Ohio. Confectionery. No. 130,129; Apr. 6; v. 273; p. 182.
Tubbs Cordage Company, San Francisco, Calif. Rope. No. 130,130; Apr. 6; v. 273; p. 182.
U. S. Toy & Novelty Co., New York, N. Y. Dolls and toy animals. No. 130,132; Apr. 6; v. 273; p. 182.
United Brush Manufactories, New York, N. Y. Paint and varnish brushes. No. 130,131; Apr. 6; v. 273; p. 182.
Voss Bros. Manufacturing Co., Davenport, Iowa. Laundry-washing machines. No. 130,133; Apr. 6; v. 273; p. 182.
Waldes & Co., Prague, Bohemia. Portable cigarette-makers and cigarette-tubes. No. 130,134; Apr. 6; v. 273; p. 182.
Washer Maid Company, Chicago, Ill. Soap. No. 130,135; Apr. 6; v. 273; p. 182.
Werner, William, New York, N. Y. Cigars and cigarettes. No. 130,136; Apr. 6; v. 273; p. 182.
Western Newspaper Union, Omaha, Nebr. Bond-paper. No. 130,137; Apr. 6; v. 273; p. 182.
White, Frank O., Belleville, Ill. Metal, wicker leather, &c., lounges and vehicle-seats. No. 130,138; Apr. 6; v. 273; p. 182.
Whitlock Cordage Co., New York, N. Y. Manila rope. No. 130,139; Apr. 6; v. 273; p. 182.
Winchester Repeating Arms Co., New Haven, Conn. Paper shot-shells. No. 130,140; Apr. 6; v. 273; p. 182.
Ziesenisz, Arthur W., Rolla, Mo. Waterproofing-oils for leather. No. 130,141; Apr. 6; v. 273; p. 182.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Connor, C. A., Ice Cream Company, Owosso, Mich. "Cherry-Tang." (For Cherry-Syrup.) No. 21,766; Apr. 6; v. 273; p. 183.
Connor, C. A., Ice Cream Company, Owosso, Mich. "Grape-Tang." (For Grape-Syrup.) No. 21,767; Apr. 6; v. 273; p. 183.
Connor, C. A., Ice Cream Company, Owosso, Mich. "Orange-Tang." (For Orange-Syrup.) No. 21,768; Apr. 6; v. 273; p. 183.
La Tosca Knitting Co., Utica, N. Y. "La Tosca Sleepers." (For Children's Sleeping-Garments.) Nos. 21,769–70; Apr. 6; v. 273; p. 183.
Lynchburg Shoe Company, Lynchburg, Va. "Workmanship, Quality, Service." (For Boots and Shoes.) No. 21,771; Apr. 6; v. 273; p. 183.
Mohawk Valley Cap Factory, Utica, N. Y. "Mohawk Knit Caps." (For Knitted Caps.) No. 21,772; Apr. 6; v. 273; p. 183.
Mohawk Valley Cap Factory, Utica, N. Y. "Mohawk Sweaters." (For Sweaters.) No. 21,773; Apr. 6; v. 273; p. 183.
National Canners Association, Washington, D. C. "Canned Food—the Miracle on Your Table." (For Canned Goods.) No. 21,774; Apr. 6; v. 273; p. 183.
Welch, E. M., Cleveland, Ohio. "Latapep." (For a Medicinal Tonic.) No. 21,775; Apr. 6; v. 273; p. 183.
Wright, Richard B., East Islip, N. Y. "Wright's Mouse Killer, not a poison." (For a Non-Poisonous Powder for Killing Rats and Mice.) No. 21,776; Apr. 6; v. 273; p. 183.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

National Canners Association, Washington, D. C. "Canned Food—the Miracle on Your Table." (For Canned Foods.) No. 5,239; Apr. 6; v. 273; p. 183.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

(REGISTRATION APPLIED FOR.)

Aero Works, The. (See Sheffield Works, assignor.)
Allen, George M., New York, N. Y. Syrup made from corn or corn and cane, used for food purposes. No. 126,508; Apr. 6; v. 273; p. 172.
Allied Machinery Company of America, New York, N. Y. Isolated electric-lighting plants, electric storage-battery locomotives, &c. No. 124,247; Apr. 6; v. 273; p. 157.
Alter, Frank W., Chicago, Ill. Timepieces. Nos. 124,835–8; Apr. 6; v. 273; p. 160.
American Renoleo Company, York, Pa. Food-flavoring extracts. No. 126,756; Apr. 6; v. 273; p. 174.
American Zinc Products Company, The, Greencastle, Ind. Zinc roofing in the form of plates and sheets. No. 126,757; Apr. 6; v. 273; p. 175.
Angel, H. Reeve, & Co. Inc., New York, N. Y. Gray filter-paper. No. 127,107; Apr. 6; v. 273; p. 176.
Anebacher, A. B., & Company, Inc., New York, N. Y. Insecticides and fungicides. No. 120,737; Apr. 6; v. 273; p. 145.
Archbald, Charles E., New Brunswick, N. J. Typewriter-ribbons, carbon-paper, and stencil-ink. No. 111,295; Apr. 6; v. 273; p. 138.
Armour Grain Company. (See Condensed Food Company, assignor.)
Armstrong, Julian, Chicago, Ill. Wooden tanks. No. 119,059; Apr. 6; v. 273; p. 148.
Atlantic Coast Distributors, Charleston, S. C. Fruit and fresh vegetables. No. 123,194; Apr. 6; v. 273; p. 152.
Atmore & Son, Inc., Philadelphia, Pa. Preparation for making cake. No. 127,346; Apr. 6; v. 273; p. 176.
Austinol Chemical Co. Inc., New York, N. Y. Chemical preparation for dandruff. No. 125,873; Apr. 6; v. 273; p. 168.
Bachman, Otto, St. Louis, Mo. Phonographs. No. 127,417; Apr. 6; v. 273; p. 177.
Backe, Tod, Brooklyn, N. Y. Candies. No. 123,610; Apr. 6; v. 273; p. 154.
Baer, Joseph E., New York, N. Y. Hosiery and children's rompers. No. 126,446; Apr. 6; v. 273; p. 172.
Ball, C. S., Candy Company, The, Dayton, Ohio. Candy. No. 122,203; Apr. 6; v. 273; p. 150.
Bargman, Theodore, Detroit, Mich. Clock and watch dials. No. 117,003; Apr. 6; v. 273; p. 141.
Bartlett, J. E., & Sons, Tampa, Fla. Fresh fruits. No. 125,941; Apr. 6; v. 273; p. 169.
Bausch Machine Tool Company, Springfield, Mass. Non-ferrous metal in the form of castings and forgings, &c. No. 125,875; Apr. 6; v. 273; p. 169.
Beard, Richard M., New York, N. Y. Electric-lighting fixtures. No. 120,949; Apr. 6; v. 273; p. 146.
Becker, John W., Chicago, Ill. Abrasive devices for use on commutators of electric machines. No. 114,875; Apr. 6; v. 273; p. 140.
Bernard, Henry B., Jefferson, S. D. Worm-expeller horse-tonic, hog-tonic, &c. No. 123,419; Apr. 6; v. 273; p. 153.
Bernard, William J., New York, N. Y. Watches. No. 125,046; Apr. 6; v. 273; p. 161.
Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, blank books. No. 121,744; Apr. 6; v. 273; p. 148.
Bloom & Moses, Inc., Baltimore, Md. Female apparel—namely, middy-blouses, suits, skirts, dresses, &c. No. 125,559; Apr. 6; v. 273; p. 166.
Blue Bird Manufacturing Company, St. Louis, Mo. Ironing-machines, wringing-machines, and sad-irons. No. 124,385; Apr. 6; v. 273; p. 157.
Bolander, John A., San Francisco, Calif. Stringed musical instrument resembling a banjo and ukulele. No. 107,715; Apr. 6; v. 273; p. 138.
Borgfeldt, George, & Co., New York, N. Y. Women's, misses', children's, and infants' felt shoes and slippers. No. 127,421; Apr. 6; v. 273; p. 177.
Bridgman, Roy W., San Jose, Calif. Perspiration-counteractor. No. 123,872; Apr. 6; v. 273; p. 155.
Brown's Tooth Powder Company, San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 125,362; Apr. 6; v. 273; p. 164.
Bulova, J., Company, New York, N. Y. Watches for men and ladies. Nos. 125,768–9; Apr. 6; v. 273; p. 167.
Bulova, J., Company, New York, N. Y. Men's and ladies' watches. No. 125,822; Apr. 6; v. 273; p. 168.
Bulova, J., Company, New York, N. Y. Men's and ladies' watches. No. 125,824; Apr. 6; v. 273; p. 168.
Burnham, Edward, Chicago, Ill. Preparation for hair-brightener, hair-shampoo, and to restore natural color to hair. No. 125,596; Apr. 6; v. 273; p. 166.
Burt Olney Canning Company, The, Oneida, N. Y. Condensed and evaporated milk. No. 114,564; Apr. 6; v. 273; p. 139.
Burton Brothers, Chicago, Ill. Non-alcoholic non-cereal maltless beverages and syrups for making the same, colors and flavors in preparation thereof. No. 121,654; Apr. 6; v. 273; p. 148.
Bussman Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 127,538; Apr. 6; v. 273; p. 177.
California Alkali Co., San Francisco, Calif. Neutral soda for cleaning and washing. No. 125,877; Apr. 6; v. 273; p. 169.
California Alkali Co., San Francisco, Calif. Soda-ash or anhydrous sodium carbonate used in the manufacture of glass, soap, &c. No. 125,878; Apr. 6; v. 273; p. 169.
California Lima Bean Growers Association, Oxnard, Calif. Dry Lima beans. No. 125,876; Apr. 6; v. 273; p. 169.
Campe Corporation, The, New York, N. Y. Bathing-suits, sweaters, and jerseys. No. 125,491; Apr. 6; v. 273; p. 165.
Cascade Industries Company, Cascade, Md. Candy. No. 126,009; Apr. 6; v. 273; p. 170.
Celite Products Company, Los Angeles, Calif., and New York, N. Y. Semiplastic and adhesive cement. No. 125,418; Apr. 6; v. 272; p. 165.
Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper, foldera, toilet-paper, &c. No. 124,199; Apr. 6; v. 273; p. 157.
Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper, folders, toilet-paper, &c. No. 124,202; Apr. 6; v. 273; p. 157.
Charms Company, Newark, N. J. Toasted peanuts. No. 126,847; Apr. 6; v. 273; p. 175.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 123,108; Apr. 6; v. 273; p. 151.
Cherry Tree Machine Company, Cherry Tree borough, Pa. Electrically-driven water-pumps for mine use, mine-hauls, and mine-locomotives. No. 127,031; Apr. 6; v. 273; p. 176.
Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic riveting, chipping, calking, and stone hammers, riveters, &c. No. 121,752; Apr. 6; v. 273; p. 148.
China, Japan, and South America Trading Co., San Francisco, Calif. Canned fruits, vegetables, and fish. No. 126,508; Apr. 6; v. 273; p. 172.
Clark's, Dr., Chemical Laboratories, Chicago, Ill. Preparation of salvelike consistency for colds in head and chest, coughs, asthma, croup, &c. No. 125,831; Apr. 6; v. 273; p. 168.
Clyde Milling & Elevator Co., The, Clyde, Kans. Wheat-flour. No. 123,963; Apr. 6; v. 273; p. 155.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Coated cardboard, bristol-board, and coated paper. No. 119,937; Apr. 6; v. 273; p. 144.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Coated relief overlay-paper. No. 119,934; Apr. 6; v. 273; p. 143.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Printing-ink. No. 119,935; Apr. 6; v. 273; p. 143.
Colman, C. A., Company, New York, N. Y. Textiles in the piece. No. 122,973; Apr. 6; v. 273; p. 151.
Colonial Works, Brooklyn, N. Y. Paste paints, varnishes, floor-wax, &c. No. 121,922; Apr. 6; v. 273; p. 149.
Computing Cheese Cutter Co., Anderson, Ind. Computing cheese-cutters. No. 126,271; Apr. 6; v. 273; p. 171.
Condensed Food Company, Philadelphia, Pa., assignor to Armour Grain Company, Chicago, Ill. Partially cooked and prepared potatoes. No. 94,786; Apr. 6; v. 273; p. 137.
Connecticut Electric Steel Co., Inc., Hartford, Conn. Wrought tool-steel, steel, iron, &c. No. 125,105; Apr. 6; v. 273; p. 162.
Connor, David, Vancouver, British Columbia, Canada. Canned salmon. No. 116,047; Apr. 6; v. 273; p. 141.
Corning Glass Works, Corning, N. Y. Glass. No. 125,077; Apr. 6; v. 273; p. 162.
Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 126,103–4; Apr. 6; v. 273; p. 170.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 126,274; Apr. 6; v. 273; p. 171.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 123,339; Apr. 6; v. 273; p. 152.
Cree, Dugal, Chicago, Ill. Smoked meats. No. 115,138; Apr. 6; v. 273; p. 140.
Croker Packing Co., San Francisco, Calif. Canned vegetables and fruit jams. No. 126,010; Apr. 6; v. 273; p. 170.

(REGISTRATION APPLIED FOR.)

Dalton Hosiery Mills, Dalton, Ga. Hosiery. No. 126,560; Apr. 6; v. 273; p. 173.
Davidson, Leroy E., Buffalo, N. Y. Moving-picture films. No. 120,523; Apr. 6; v. 273; p. 144.
De Luca, John A., St. Helena, Md. Baking-powder. No. 125,081; Apr. 6; v. 273; p. 162.
De Milo Distributing Co., New York, N. Y. Knitted underwear. No. 126,561; Apr. 6; v. 273; p. 173.
De Pree Chemical Company, The, Holland, Mich. Complexion-powder. No. 124,977; Apr. 6; v. 273; p. 161.
Desch, Barbara M., Columbia, Pa. Remedy for lung trouble. No. 118,647; Apr. 6; v. 273; p. 143.
Deter-Sol Sales Company, Denver, Colo. Preparation to preserve and renew platens. No. 124,750; Apr. 6; v. 273; p. 160.
Dew Valve Co., Inc., New York, N. Y. Automatic relief-valves for steam-engine cylinders. No. 126,247; Apr. 6; v. 273; p. 171.
Distinctive Jewelry Co. Inc., New York, N. Y. Jewelry for personal wear, not including watches. Nos. 124,515–16; Apr. 6; v. 273; p. 158.
Dittrich, August C., Chicago, Ill. Clocks. No. 125,834; Apr. 6; v. 273; p. 168.
Dockendorff, J. E., & Co. Inc., New York, N. Y. Copper-nickel-alloy wire. No. 121,572; Apr. 6; v. 273; p. 147.
Dockendorff, J. E., & Co. Inc., New York, N. Y. Nickel-chromium-alloy wire. No. 121,568; Apr. 6; v. 273; p. 147.
Dockendorff, J. E., & Co. Inc., New York, N. Y. Nickel-chromium-alloy wire. No. 121,570; Apr. 6; v. 273; p. 147.
Doty, Charlie E., Oklahoma, Okla. Petroleum and petroleum products. No. 123,430; Apr. 6; v. 273; p. 153.
Dry Milk Company, The, New York, N. Y. Dry milk. No. 123,158; Apr. 6; v. 273; p. 151.
Dubois Watch Case Company, Brooklyn, N. Y. Watches. No. 115,566; Apr. 6; v. 273; p. 141.
Dyer, W. H., Company, Evansville, Ind. Fruit jam, preserves, jelly, and table-syrup. No. 122,691; Apr. 6; v. 273; p. 150.
Eastern Brass and Ingot Corporation, Chicago, Ill. Non-ferrous metal ingots. No. 128,766; Apr. 6; v. 273; p. 178.
Eastman Kodak Company, The, Rochester, N. Y. Photographic film. No. 126,310; Apr. 6; v. 273; p. 172.
Edison Laboratories, The, Chicago, Ill. Hair-shampoo. No. 124,137; Apr. 6; v. 273; p. 156.
Eichenfeld, Daniel, Tulsa, Okla. Wooden pipes and splicings. No. 121,804; Apr. 6; v. 273; p. 149.
Emerson Piano Company, Boston, Mass. Sound-reproducing instruments (phonographs). No. 125,655; Apr. 6; v. 273; p. 166.
Engel, Albert W., Chicago, Ill. Picture or sheet mounting devices. No. 122,209; Apr. 6; v. 273; p. 150.
Engle and Zeimer, New York, N. Y. Ladies' hats. No. 123,572; Apr. 6; v. 273; p. 154.
Erber, Nathan, Fort Wayne, Ind. Skin-lotion. No. 123,688; Apr. 6; v. 273; p. 155.
Fairmont Beverage Co., Cincinnati, Ohio. Non-intoxicating beverage. No. 120,700; Apr. 6; v. 273; p. 145.
Farrer, Charles M., Seattle, Wash. Doll-buggies. No. 124,338; Apr. 6; v. 273; p. 157.
Federal Fur & Wool Company, St. Louis, Mo. Chemically-compounded fluid, which attracts animals as bait. No. 125,882; Apr. 6; v. 273; p. 169.
Federal Soap Company, The, Columbus, Ohio. Yellow laundry soap. No. 124,788; Apr. 6; v. 273; p. 160.
Férier, Bianchini, Lyon, France. Piece goods of silk, wool, linen, cotton, and other textile fabrics. No. 123,845; Apr. 6; v. 273; p. 155.
Fine, Henry, New York, N. Y. Hosiery and underwear. No. 127,907; Apr. 6; v. 273; p. 178.
Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes, and slippers of leather. No. 60,239; Apr. 6; v. 273; p. 137.
Fisher, R. E., & Sons, Mahanoy City, Pa. Hair-tonic. No. 124,557; Apr. 6; v. 273; p. 158.
Florman, Irving, New York, N. Y. Flexible protective facings or coverings for watch and clock dials. No. 121,929; Apr. 6; v. 273; p. 149.
Formby Petrinite Corporation, Jacksonville, Fla. Tile, brick, and artificial stone. No. 127,586; Apr. 6; v. 273; p. 177.
Forward Sparking Plug Co., Birmingham, England. Sparking plugs for internal-combustion engines. No. 124,681; Apr. 6; v. 273; p. 159.
Fraser, Maurice, Detroit, Mich. Sanitary cover for toilet-seats. No. 125,379; Apr. 6; v. 273; p. 165.
French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 126,794; Apr. 6; v. 273; p. 175.
Friedman-Haas Co., The, Cleveland, Ohio. Dresses and skirts. No. 127,684; Apr. 6; v. 273; p. 177.
Gawurin, Leon, New York, N. Y. Face and toilet powders, perfume, &c. No. 125,381; Apr. 6; v. 273; p. 165.
Gawurin, Leon, New York, N. Y. Mouth-wash, tooth-powder, perfume, face-cream, &c. No. 125,380; Apr. 6; v. 273; p. 165.
General Chemical Company, New York, N. Y. Insecticide. No. 125,052; Apr. 6; v. 273; p. 161.
General Electric Company, Schenectady, N. Y. Electric incandescent lamps. No. 83,821; Apr. 6; v. 273; p. 137.
Gets 'Em Co., Tifton, Ga. Liquid insecticide. No. 125,109; Apr. 6; v. 273; p. 162.
Giglio, Angelo, New York, N. Y. Powder-puffs. No. 125,325; Apr. 6; v. 273; p. 168.
Gilcrease, Leonard L., Reno, Nev. Adjustable supports for supporting the axles of vehicles. No. 123,434; Apr. 6; v. 273; p. 153.
Gilson Bros., New York, N. Y. Paper bags. No. 124,138; Apr. 6; v. 273; p. 156.
Glidden, Joseph F., Lakewood, Ohio. Basic oil for paint and varnish building. No. 128,599; Apr. 6; v. 273; p. 178.
Gosslein Trading Corporation, New York, N. Y. Cigarettes, cigars, pipe and chewing tobacco. No. 126,581; Apr. 6; v. 273; p. 173.
Grand Union Tea Company, Brooklyn, N. Y. Petroleum jelly. No. 125,837; Apr. 6; v. 273; p. 168.
Granolax Company, The, New York, N. Y. Laxative. No. 126,086; Apr. 6; v. 273; p. 162.
Griffith, Webster E., North Lawrence, N. Y. Condensed milk. No. 127,413; Apr. 6; v. 273; p. 177.
Griswold Manufacturing Company, The, Erie, Pa. Food-choppers, combination meat and food cutters, fruit and lard presses, and tobacco-cutters. No. 124,717; Apr. 6; v. 273; p. 159.
Guarantee Specialty Manufacturing Company, The, Cleveland, Ohio. Snap-fasteners. No. 122,168; Apr. 6; v. 273; p. 150.
Haanel, Charles F., St. Louis, Mo. Printed books, booklets, &c., issued from time to time. No. 123,246; Apr. 6; v. 273; p. 152.
Hadden Automatic Sprinkler Company, Los Angeles, Calif. Lawn and garden sprinkling and horticultural irrigation systems, &c. No. 124,440; Apr. 6; v. 273; p. 158.
Hadley, Samuel H., New York, N. Y. Moving-picture film. No. 126,633; Apr. 6; v. 273; p. 174.
Haeuser, A. R., Co., New York, N. Y. Varnishes, shellacs, lacquers, &c. No. 117,231; Apr. 6; v. 273; p. 141.
Halle-Ferris Trading Corporation, New York, N. Y. Cigarettes. No. 123,026; Apr. 6; v. 273; p. 151.
Hallgren, Carl E., Rock Island, Ill., and Davenport, Iowa. Moving-picture films. No. 125,886; Apr. 6; v. 273; p. 169.
Handley Page Limited, London, England. Blank name and instruction plates. No. 126,859; Apr. 6; v. 273; p. 175.
Hardie Bros. Co., Pittsburgh, Pa. Candies. No. 126,583; Apr. 6; v. 273; p. 173.
Harris, Milton, Cincinnati, Ohio. Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. No. 127,546; Apr. 6; v. 273; p. 177.
Haskins, R. G., Company, Chicago, Ill. Electrically-operated grinders for millstones. No. 127,054; Apr. 6; v. 273; p. 176.
Henry, James B., Los Altos, Calif. Dried fruits. No. 121,860; Apr. 6; v. 273; p. 149.
Hepworth, S. S., Company, New York, N. Y. Centrifugal driers, filters, and separators and parts thereof. No. 121,204; Apr. 6; v. 273; p. 146.
Hercules Petroleum Company, Dallas, Tex. Fuel-oils. No. 122,015; Apr. 6; v. 273; p. 149.
Hessberg, Morris & Gunst, Inc., Baltimore, Md. Boys' suits. No. 124,938; Apr. 6; v. 273; p. 161.
Hirsch Brothers Co., Inc., Chicago, Ill. Whip-powder. No. 125,700; Apr. 6; v. 273; p. 166.
Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 126,517; Apr. 6; v. 273; p. 172.
Hooton Cocoa Company, Newark, N. J. Milk-chocolate bars. No. 123,353; Apr. 6; v. 273; p. 153.
Hope Webbing Company, Pawtucket, R. I. Webbing in the piece. No. 117,140; Apr. 6; v. 273; p. 142.
Howard-Hulme-Dittrich Shoe Co., Carthage, Mo. Children's, misses', and girls' leather shoes and slippers. No. 126,123; Apr. 6; v. 273; p. 171.
Howson, Henry, Glen Moore, Pa. Corn products, oatmeal, wheat-flour, and prepared feeds for cattle. No. 109,799; Apr. 6; v. 273; p. 138.
Hunt, Carolyn M., Los Angeles, Calif. Girls' cotton wash-dresses and rompers. No. 125,228; Apr. 6; v. 273; p. 163.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. No. 126,998; Apr. 6; v. 273; p. 175.
Imperial Electric Co., The, Akron, Ohio. Electrical machinery. No. 127,919; Apr. 6; v. 273; p. 178.
Imperial Knitting Co., Milwaukee, Wis. Sweaters, shawls, scarfs, &c. No. 125,464; Apr. 6; v. 273; p. 164.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Air-compressors, vacuum-pumps, hoists, &c. No. 125,424; Apr. 6; v. 273; p. 163.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Rock-drills. No. 125,423; Apr. 6; v. 273; p. 166.
Jiffie-Straight Company, Inc., Petersburg, Va. Pomade for the scalp and hair. No. 125,113; Apr. 6; v. 273; p. 162.
Johnson, Nathan G., Atmore, Ala. Liniment for swollen joints, rheumatism, &c. No. 125,332; Apr. 6; v. 273; p. 164.
Johnson Oil Refining Company, Chicago Heights, Ill. Petroleum, gasolene, fuel-oils, black oil, &c. No. 124,143; Apr. 6; v. 273; p. 156.
Johnston Dry Goods Co., Birmingham, Ala. Cloth piece goods. No. 124,608; Apr. 6; v. 273; p. 159.

Rice, M., Company, Philadelphia, Pa. Nursery furniture. No. 120,621; Apr. 6; v. 273; p. 145.
Rice-Stix Dry Goods Company, St. Louis, Mo. Neckties, cravats, mufflers, and collars. No. 126,595; Apr. 6; v. 273; p. 174.
Richards and Co. Incorporated, Boston, Mass. Pig-tin. No. 126,196; Apr. 6; v. 273; p. 171.
Richardson Corporation, Rochester, N. Y. Non-alcoholic maltless syrup and beverage made therefrom. No. 127,329; Apr. 6; v. 273; p. 176.
Rosenbaum Brothers, Salt Lake City, Utah. Overalls for men and boys. No. 123,367; Apr. 6; v. 273; p. 153.
Roy Watch Case Company, New York, N. Y. Watchcases. No. 126,138; Apr. 6; v. 273; p. 171.
Roy, William D., Belleview, Tenn. Playing-cards. No. 122,085; Apr. 6; v. 273; p. 149.
Rummell Manufacturing Works, Findlay, Ohio. Spark-plugs. No. 123,601; Apr. 6; v. 273; p. 155.
Rupert, A., Company, Inc., Portland, Oreg. Canned fish—namely, canned salmon. No. 126,062; Apr. 6; v. 273; p. 170.
Russian Tea Room & Art Shop, Chicago, Ill. Cigarettes. Nos. 125,340–2; Apr. 6; v. 273; p. 164.
Saxo Chemical Co., Houston, Tex. Plastic surgical dressing. No. 125,132; Apr. 6; v. 273; p. 162.
Saxo Chemical Co., Houston, Tex. Liquid antiseptic used as a gargle, mouth-wash, &c. No. 125,133; Apr. 6; v. 273; p. 162.
Scull, William S., Company, Camden, N. J. Tea and rice. No. 125,808; Apr. 6; v. 273; p. 167.
Sears, Roebuck and Co., Chicago, Ill. Hosiery and knitted underwear for boys and young men, boys' vests, coats, &c. No. 126,598; Apr. 6; v. 273; p. 174.
Sherwin-Williams Co., The, Cleveland, Ohio. Pine-oil disinfectant. No. 125,864; Apr. 6; v. 273; p. 168.
Sims, Annie, Pittsburgh, Pa. Salve for treatment of the scalp. No. 125,727; Apr. 6; v. 273; p. 167.
Smith, M. E., & Co., Inc., Omaha, Nebr. Women's and children's underwear, night-robes, dresses, and blouses. No. 127,840; Apr. 6; v. 273; p. 178.
Southern Chemical Products Co., Baltimore, Md. Germicide deodorizing and disinfectant dentifrice preparation. No. 125,197; Apr. 6; v. 273; p. 163.
Standard Products Co., The, Buffalo, N. Y. Polish for floors, furniture, woodwork, and automobile-bodies. No. 127,339; Apr. 6; v. 273; p. 176.
Starr Fruit Products Co., Portland, Oreg. Canned fruits. No. 125,914; Apr. 6; v. 273; p. 169.
Steppacher, Walter M., & Bro. Inc., Philadelphia, Pa. Men's and children's clothing of cotton, silk, and woolen fabrics. No. 125,586; Apr. 6; v. 273; p. 166.
Stuart, Ellis V., Indianapolis, Ind. Ignition-wire conduits. No. 125,809; Apr. 6; v. 273; p. 168.
Sullivan, Mary E., Richmond, Va. Dentifrice and antiseptic deodorant. No. 125,729; Apr. 6; v. 273; p. 167.
Swift Mfg. Co., Columbus, Ga. Cotton piece goods. No. 126,948; Apr. 6; v. 273; p. 175.
Symonds, Frank P., Salem, Mass. Lubricating-oil. No. 125,548; Apr. 6; v. 273; p. 166.
Schiff, David, New York, N. Y. Candies. No. 119,133; Apr. 6; v. 273; p. 143.
Schoble, Frank, & Co., Philadelphia, Pa. Men's felt hats. No. 120,263; Apr. 6; v. 273; p. 144.
Sentanel Remedies Company, The, Wilmington, Del., and Cincinnati, Ohio. Medicine for headache, rose and hay fever, general catarrhal conditions, sprains, bruises, &c. No. 124,959; Apr. 6; v. 273; p. 161.
Sheffield Works, Inc., assignor to The Aero Works, Incorporated, New York, N. Y. Saws and machine, tobacco, cane, and corn knives. No. 114,590; Apr. 6; v. 273; p. 139.
Simon, Franklin, & Co. Inc., New York, N. Y. Women's, misses', and children's undergarments and clothing. No. 124,017; Apr. 6; v. 273; p. 156.
Smith & Clark Company, Wilkes-Barre and Scranton, Pa. Ice-creams. No. 112,270; Apr. 6; v. 273; p. 139.
Smith & Nichols, New York, N. Y., and Boston, Mass. Paraffin-wax, ozocerite, Montan wax, cable-wax, &c. No. 111,223; Apr. 6; v. 273; p. 138.
Smith & Nichols, New York, N. Y., and Boston, Mass. Paraffin-wax, ozocerite, ceresin, Montan wax, &c. No. 111,225; Apr. 6; v. 273; p. 138.
Smith, Archie R., St. Louis, Mo. Hair-tonic, dandruff-eradicator, and complexion-cream. No. 121,910; Apr. 6; v. 273; p. 149.
"Snaplok," Inc., New York, N. Y. Snap-fasteners. No. 121,159; Apr. 6; v. 273; p. 146.
Società Industrie Chimiche Ittiolo, Naples, Italy. Sulfoichthyolic acid and sulfoichthyolates, &c. No. 115,666; Apr. 6; v. 273; p. 141.
Società Industrie Chimiche Ittiolo, Naples, Italy. Chemical preparations containing formaldehyde, &c. No. 120,439; Apr. 6; v. 273; p. 144.
Société Anonyme Les fils de L. Braunschweig, Fabrique Election, La Chaux-de-Fonds, Switzerland. Watches and parts thereof. No. 114,028; Apr. 6; v. 273; p. 139.
Spiro, C., Mfg. Co., The, New York, N. Y. Running-boards, mats for automobile-running boards and floors, &c. No. 120,393; Apr. 6; v. 273; p. 144.
Standard By-Products Co., Incorporated, Louisville, Ky. Digester-tankage, a food for stock. No. 118,745; Apr. 6; v. 273; p. 143.
Standard Commercial Export and Finance Corporation, The, New York, N. Y. Oleo-oil. No. 123,226; Apr. 6; v. 273; p. 152.
Sterling Varnish Company, The, Pittsburgh, Pa. Varnish for electric insulation. No. 120,975; Apr. 6; v. 273; p. 146.
Stollwerck Chocolate Company, The, Stamford, Conn., and New York, N. Y. Cocoa and chocolate. Nos. 121,264–5; Apr. 6; v. 273; pp. 146–7.
Stone, Junius H., New York, N. Y. Prepared felt for construction purposes. No. 121,791; Apr. 6; v. 273; p. 148.
Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, photomount, book, cover, writing paper, &c. Nos. 123,462–3; Apr. 6; v. 273; pp. 153–4.
Stuart Products Corporation, Chicago, Ill. Electric batteries. No. 125,032; Apr. 6; v. 273; p. 161.
Sultanaki, John G., Savannah, Ga. Herb tea. No. 120,802; Apr. 6; v. 273; p. 145.
Superior Builders Supply Co., Little Rock, Ark. Roll composition roofing and shingles. No. 118,450½; Apr. 6; v. 273; p. 143.
Swisky, Robert, Chicago, Ill. Hat-brushes. No. 124,580; Apr. 6; v. 273; p. 159.
Takamine Laboratory Inc., New York, N. Y. Quinin ethyl carbonate. No. 125,812; Apr. 6; v. 273; p. 168.
Tayler, Tunnicliff and Company, Limited, Hanley, England. Electric insulators made of porcelain. No. 125,763; Apr. 6; v. 273; p. 167.
Taves, C. W., Co., Chicago, Ill. Hosiery, and underwear. No. 127,944; Apr. 6; v. 273; p. 178.
Tee-O Mfg. Co., New York, N. Y. Rice wafers. No. 121,493; Apr. 6; v. 273; p. 147.
Terry, Herbert, & Sons, Ltd., Redditch, England. Pocket-clips for fountain-pens and pencils, paper-clips, &c. No. 120,626; Apr. 6; v. 273; p. 145.
Thibodeaux, Joseph N., Houston, Tex. Tooth powders and pastes and mouth-washes. No. 125,135; Apr. 6; v. 273; p. 163.
Trumbo, Stacy D., Columbus, Ohio. Catamenial bandage. No. 122,669; Apr. 6; v. 273; p. 150.
Tucker, Henry D., Avenel, N. J. Knocked-down sand-boxes. No. 118,000; Apr. 6; v. 273; p. 142.
Turner & Harrison Pen M'f'g Co., Inc., The, Philadelphia, Pa. Steel pen-points. No. 126,398; Apr. 6; v. 273; p. 172.
Twinn Falls Dehydrating Co., Twin Falls, Idaho. Dehydrated vegetables and fruits. No. 126,076; Apr. 6; v. 273; p. 170.
Ulmer Leather Company, The, Norwich, Conn. Leather, finished and partly finished, and particularly pickerleather. No. 128,121; Apr. 6; v. 273; p. 178.
United American Metals Corporation, New York, N. Y. Babbitt metal. No. 126,400; Apr. 6; v. 273; p. 172.
United Canneries Company of California, Oakland, Calif. Canned peaches and apricots. No. 126,549; Apr. 6; v. 273; p. 173.
United Stay Company, Cambridge, Mass. Boots, shoes, hats, gloves, &c. No. 118,025; Apr. 6; v. 273; p. 142.
United Theatre Equipment Corporation, Wilmington, Del., and New York, N. Y. Motion-picture-projection machines, &c. No. 122,561; Apr. 6; v. 273; p. 150.
Vail Brothers, Philadelphia, Pa. Depilatory in powder, paste, and liquid form. No. 121,370; Apr. 6; v. 273; p. 147.
Van Horn, Blaine, Philadelphia, Pa. Instruments for producing comical imitative sounds. No. 125,992; Apr. 6; v. 273; p. 170.
Vansickle, S. D., Estate, Ashland, Pa. Preparation for treatment of diphtheria, coughs, colds, &c. No. 117,074; Apr. 6; v. 273; p. 142.
Vee Bee Chocolate Co., New York, N. Y. Chocolate. Nos. 126,663–4; Apr. 6; v. 273; p. 174.
Vincennes Furniture M'f'g Co., Vincennes, Ind. Kitchen-cabinets. No. 123,506; Apr. 6; v. 273; p. 154.
Vivaudou, V., Inc., New York, N. Y. Deodorants. No. 125,137; Apr. 6; v. 273; p. 163.
Von Holt, George F., Woodhaven, N. Y. Mayonnaise. No. 126,265; Apr. 6; v. 273; p. 171.
Waldes & Co., Prague, Bohemia. Placket and glove fasteners, needles, hooks and eyes, buckles, &c. No. 121,071; Apr. 6; v. 273; p. 146.
Walker-Matteson Company, Joliet, Ill. Canned fruits, vegetables, fish, mustard, &c. No. 126,604; Apr. 6; v. 273; p. 174.
Warner Brothers Company, The, Bridgeport, Conn. Brassière combination-undergarments and undergarments for women. No. 114,576; Apr. 6; v. 273; p. 139.
Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. No. 126,402; Apr. 6; v. 273; p. 171.
Weber, Jules, Inc., New York, N. Y. Oils of cotton-seed. No. 125,269; Apr. 6; v. 273; p. 163.
White Company, The, Cleveland, Ohio. Automobiles and motor-trucks. No. 114,791; Apr. 6; v. 273; p. 140.
Whitelite Electric Company, New York, N. Y. Incandescent lamps. No. 123,411; Apr. 6; v. 273; p. 153.
Whitelite Electric Company, New York, N. Y. Incandescent lamps. No. 124,243; Apr. 6; v. 273; p. 157.

Johnston, George F., Fort Dodge, Iowa. Ready-mixed fire-resisting paints, shingle-stains. No. 113,861; Apr. 6; v. 273; p. 139.
Jones, W. A., Foundry & Machine Co., Chicago, Ill. Spur-gear reducers, worm-gear speed-reducers, power-transmission machinery. No. 123,648; Apr. 6; v. 273; p. 154.
Joslin, William H., Providence, R. I. Braids, shoe and corset laces, and galloons. No. 114,784; Apr. 6; v. 273; p. 140.
Justice, Frank G., Philadelphia, Pa. Cake. No. 126,037; Apr. 6; v. 273; p. 170.
Kampfe Bros., Brooklyn, N. Y. Shaving-brushes. Nos. 124,410–11; Apr. 6; v. 273; pp. 157–8.
Kea, William, Dublin, Ga. Worm and insect exterminator. No. 125,286; Apr. 6; v. 273; p. 163.
King, Mrs. A. R., Inc., Philadelphia, Pa. Leather, rubber, and canvas shoes. No. 127,547; Apr. 6; v. 273; p. 177.
Kirschbaum Company, The, Savannah, Ga. Cigars. No. 123,858; Apr. 6; v. 273; p. 155.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 125,660–1; Apr. 6; v. 273; p. 166.
Krautz Products Company, The, Findlay, Ohio. Root and birch beer, ginger-ale, and non-intoxicating beverages. No. 126,218; Apr. 6; v. 273; p. 171.
Langfelder & Shrier, New York, N. Y. Dresses. No. 126,770; Apr. 6; v. 273; p. 175.
Lapeyre, Ben, E., Great Falls, Mont. Toilet cream. No. 114,451; Apr. 6; v. 273; p. 139.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat-flour. No. 120,835; Apr 6; v. 273; p. 145.
Levy, Joseph I., Philadelphia, Pa. Sanitary paper cover for toilet-seats. No. 124,614; Apr. 6; v. 273; p. 159.
Liebs, L. A., Co., Inc., New York, N. Y. Box-cover wrappers, package and shipping labels, and tags. No. 126,041; Apr. 6; v. 273; p. 170.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 127,251; Apr. 6; v. 273; p. 176.
Louis, Otto F., Bay City, Mich. Antiseptic mouth-wash for treatment and prevention of pyorrhea. No. 125,786; Apr. 6; v. 273; p. 167.
Loyer, Mary A., Denver, Colo. Tablet containing radium therapeutic qualities used as a medicinal treatment. No. 98,741; Apr. 6; v. 273; p. 137.
Lukens, C. Dewitt, Surgical Manufacturing Co., St. Louis, Mo. Steam-sterilized antiseptic water-soluble surgical dressing and cement. No. 125,320; Apr. 6; v. 273; p. 163.
Luther Grinder Manufacturing Company, Milwaukee, Wis. Tool-grinding machines. No. 114,700; Apr. 6; v. 273; p. 140.
Lyon & Healy, Chicago, Ill. Pedals for musical instruments. No. 126,330; Apr. 6; v. 273; p. 172.
Lyon & Greenleaf Co., Ligonier, Ind. Wheat-flour. No. 124,525; Apr. 6; v. 273; p. 158.
Lyons, Arthur H., Philadelphia, Pa. Storage batteries and parts thereof. No. 125,188; Apr. 6; v. 273; p. 163.
Lyons, Arthur H., Philadelphia, Pa. Storage batteries and parts thereof. No. 127,482; Apr. 6; v. 273; p. 177.
Macy, R. H., & Co., Inc., New York, N. Y. Women's, misses', and children's dresses. No. 126,815; Apr. 6; v. 273; p. 175.
Maggioros & Rousos, Rochester, N. Y. Olive-oil. No. 126,479; Apr. 6; v. 273; p. 172.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 127,379; Apr. 6; v. 273; p. 176.
Mannello, Angelo, New York, N. Y. Phonographs and talking-machines. No. 125,398; Apr. 6; v. 273; p. 165.
Manteca Canning Co., Manteca, Calif. Canned fruits and vegetables. Nos. 126,529–30; Apr. 6; v. 273; p. 173.
Manteca Canning Co., Manteca, Calif. Canned apricots. No. 126,531; Apr. 6; v. 273; p. 173.
Manteca Packing Company, Manteca, Calif. Canned fruits. No. 126,536; Apr. 6; v. 273; p. 173.
Martin-Pemberton Company, Chicago, Ill. Canned sausage. No. 123,490; Apr. 6; v. 273; p. 153.
Masland Duraleather Company, Philadelphia, Pa. Artificial or imitation leather. No. 126,735; Apr. 6; v. 273; p. 174.
Matthews Engineering Co., The, Sandusky, Ohio. Unitary electric plants. No. 124,486; Apr. 6; v. 273; p. 158.
Mayclese, New York, N. Y. Clock-dial. No. 123,444; Apr. 6; v. 273; p. 153.
Mayer & Goldsmith, New York, N. Y. Trimmed and untrimmed hats. No. 122,902; Apr. 6; v. 273; p. 151.
Mayer, Oscar F., & Bros., Chicago, Ill. Fresh, dried, and canned ham, bacon, sausage, beef roll, &c. No. 116,098; Apr. 6; v. 273; p. 141.
Mazzei Skirt Co. Inc., New York, N. Y. Skirts. No. 125,792; Apr. 6; v. 273; p. 167.
Metropol, Jack G., Manning, S. C. Non-alcoholic non-intoxicating non-cereal maltless beverage. No. 123,652; Apr. 6; v. 273; p. 154.
Meyer, Geo. J., Manufacturing Co., Milwaukee, Wis. Bottle-washing machines. No. 125,334; Apr. 6; v. 273; p. 164.
Meyrowitz, E. B., Inc., New York, N. Y. Mechanical devices as an aid to hearing. No. 120,009; Apr. 6; v. 273; p. 144.
Migel, J. A., Inc., New York, N. Y. Ladies', misses', and children's wearing-apparel. No. 121,010; Apr. 6; v. 273; p. 146.
Mills, Chester S., Pittsburgh, Pa. Medicated tablets used as a laxative. No. 125,335; Apr. 6; v. 273; p. 164.
Miller Lock Company, Philadelphia, Pa. Locks. No. 125,961; Apr. 6; v. 273; p. 170.
Minnesota Tobacco Company, Duluth, Minn. Cigarettes. No. 121,536; Apr. 6; v. 273; p. 147.
Modern Food Company, New York, N. Y. Powder convertible into beverages. No. 124,183; Apr. 6; v. 273; p. 156.
Moore Electric Corporation, The, Chicago, Ill. Electric hair-clippers, motors, and hair-driers. No. 124,309; Apr. 6; v. 273; p. 157.
Mount Airy Canning Co., The, Mount Airy, Md. Canned vegetables. No. 126,588; Apr. 6; v. 273; p. 174.
National Equipment Company, Springfield, Mass. Chocolate and confectionery machinery. No. 115,018; Apr. 6; v. 273; p. 140.
Newton, Robert W., Providence, R. I. Automatic sprinklers. No. 124,226; Apr. 6; v. 273; p. 157.
New York Boys' Shops, Inc., New York, N. Y. Boys' clothing and wearing-apparel. No. 124,727; Apr. 6; v. 273; p. 158.
New York Oversea Co., New York, N. Y. Writing and printing bond-paper, ledger, and writing-paper and mailing-envelops. No. 125,121; Apr. 6; v. 273; p. 162.
Nichols, Andrew P., Bridgeport, Conn. Electric air-heaters for starting internal-combustion engines. No. 126,257; Apr. 6; v. 273; p. 171.
Nineteen Hundred Washer Company, The, Binghamton, N. Y. Clothes-washing machine. No. 124,185; Apr. 6; v. 273; p. 156.
Nishikawa, Sadatsugu, Los Angeles, Calif. Canned tea. No. 118,213; Apr. 6; v. 273; p. 142.
Noble, Charles, Jr., Company, Buffalo, N. Y. Fresh, bulk, and canned oysters, clams, lobsters, shrimp and crabs, and fresh, salted, dried, and canned fish. No. 105,719; Apr. 6; v. 273; p. 138.
Noble, Charles, Jr., Company, Buffalo, N. Y. Fresh and canned oysters, shrimp, and crabs, and fresh, salted, and canned fish. No. 100,967; Apr. 6; v. 273; p. 137.
Northwestern Candy Company, Waterloo, Iowa. Candied nut-bars. No. 125,719; Apr. 6; v. 273; p. 166.
Nut House, Inc., The, Seattle, Wash. Sugared peanuts. No. 125,009; Apr. 6; v. 273; p. 161.
Ohio Grease Company, The, Loudenville, Ohio. Cylinder, graphite, mica, shafting, &c., greases and oils. No. 120,578; Apr. 6; v. 273; p. 145.
Ohio Hotel Operating Company, The, Youngstown, Ohio. Chocolates. No. 122,226; Apr. 6; v. 273; p. 150.
Oneida Community, Limited, Oneida, N. Y. Flat-ware, plated. No. 123,138; Apr. 6; v. 273; p. 151.
Oneida Community, Limited, Oneida, N. Y. Flat-ware plated with precious metal. No. 115,072; Apr. 6; v. 273; p. 140.
Oneida Corporation, Chicago, Ill. Depilatories. No. 124,809; Apr. 6; v. 273; p. 160.
Osborn Paper Company, Marion, Ind. Writing and printing papers and writing-tablets. No. 125,854; Apr. 6; v. 273; p. 168.
Park Chemical Company, Great Falls, Mont. Automobile-body polish and cleaner. No. 124,533; Apr. 6; v. 273; p. 158.
Parker, Frederick R., Chicago, Ill. High-potential-electricity-arrester electrodes. No. 124,577; Apr. 6; v. 273; p. 158.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, driers, wood-stains, &c. No. 123,077; Apr. 6; v. 273; p. 151.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, driers, wood-stains, &c. No. 123,173; Apr. 6; v. 273; p. 152.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints, driers, enamel paints, wood-stains, &c. No. 115,928; Apr. 6; v. 273; p. 141.
Pawcatuck Woolen Mills, Westerly, R. I. Woolen piece goods. No. 127,394; Apr. 6; v. 273; p. 176.
Peake, W. O. Ltd. London, England. Weatherproof coats. 122,024; Apr. 6; v. 273; p. 149.
Pierce, Eugene G., Chicago, Ill. Popcorn, shelled and unpopped. No. 124,005; Apr. 6; v. 273; p. 155.
Porter, Warren D., San Francisco, Calif. Men's and boy's underwear. No. 121,156; Apr. 6; v. 273; p. 146.
Potter, Louis, New York, N. Y. Men's, youths', and boys' khaki, worsted, &c., trousers and suits. No. 124,804; Apr. 6; v. 273; p. 160.
Presto-Felt Mfg. Co., The, Toledo, Ohio. Wiping and cleaning apparatus for automobile wind-shields, &c. No. 123,825; Apr. 6; v. 273; p. 155.
Producer Music Company, St. Louis, Mo. Sheet-music. No. 121,779; Apr. 6; v. 273; p. 148.
Providence Specialty Company, Providence, R. I. Lacquer and varnishes. No. 100,558; Apr. 6; v. 273; p. 137.
Queisser & Co., Hamburg, Germany. Creams and paste for the teeth. No. 124,732; Apr. 6; v. 273; p. 167.
Queisser & Co., Hamburg, Germany. Cream, particularly an ointment for improvement of the skin. No. 124,733; Apr. 6; v. 273; p. 167.
Rawleigh, W. T., Company, The, Freeport, Ill. Polish for painted, varnished, waxed, and similar surfaces. No. 124,010; Apr. 6; v. 273; p. 156.
Remington Arms Union Metallic Cartridge Co. Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; Hoboken, N. J., and New York, N. Y. Military and sporting rifles, shotguns, pistols, &c. No. 123,169; Apr. 6; v. 273; p. 152.

(REGISTRATION APPLIED FOR.)

Wiener, Henry, New York, N. Y. Mesh-bags, pocket-books, and purses. No. 125,355; Apr. 6; v. 273; p. 164.
Wiesen & Goldstein, New York, N. Y. Dresses and costumes. No. 125,521; Apr. 6; v. 273; p. 165.
Williams, Mortimer, Petersburg, Va. Candy bars. No. 116,226; Apr. 6; v. 273; p. 141.
Winconsin Lumber Company, Chicago, Ill. Lumber and timber. No. 126,755; Apr. 6; v. 273; p. 174.
Wingate, Ollie, Atlanta, Ga. Pile remedy. No. 124,743; Apr. 6; v. 273; p. 167.
Win-Her Washer Company, Des Moines, Iowa. Laundry-washing machines, wringers, and parts thereof. No. 121,799; Apr. 6; v. 273; p. 148.
Winner Mfg. Co., Rochester, N. Y. Heel-plates for rubber heels, and heel and toe plates for boots and shoes. No. 125,736; Apr. 6; v. 273; p. 167.
Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Vacuum-tube devices, parts and accessories therefor, for radio communication, telegraphy, and telephony. No. 123,564; Apr. 6; v. 273; p. 154.
Wise Brothers, Inc., Baltimore, Md. Dress, negligée, and work shirts, overalls, pants, &c. No. 126,404; Apr. 6; v. 273; p. 171.
Wolf & Bird, San Francisco, Calif. Food-flavoring extracts, honey, nuts, table beverages, spices, &c. No. 124,634; Apr. 6; v. 273; p. 157.
Wrigley, E. G., & Co., Birmingham, England. Milling-cutters, reamers, &c. Nos. 119,992–3; Apr. 6; v. 273; p. 144.
Young & Wile, Ltd., New York, N. Y. Corn and maltose syrups for flavoring footstuffs. No. 124,924; Apr. 6; v. 273; p. 161.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid, Apparatus for producing hydrochloric. H. M. Lasher. No. 1,335,743; Apr. 6; v. 273; p. 8.
Accounting-machine. A. Briechle. No. 1,336,192; Apr. 6; v. 273; p. 92.
Adapter. W. J. Cameron. No. 1,335,935; Apr. 6; v. 273; p. 44.
Adjustable holder. A. H. Carlson. No. 1,335,724; Apr. 6; v. 273; p. 4.
Aerial craft, Apparatus for tilting planes on. A. V. Roe. No. 1,336,160; Apr. 6; v. 273; p. 86.
Aerial craft, Stabilizing-plane on. A. B. Roe and R. J. Parrott. No. 1,336,161; Apr. 6; v. 273; p. 86.
Agricultural implement, Self-propelled. E. W. Thomas. No. 1,336,057; Apr. 6; v. 273; p. 67.
Air, Humidifying. R. W. Hardie. No. 1,336,225; Apr. 6; v. 273; p. 98.
Air-motor. E. Plemmons. No. 1,336,315; Apr. 6; v. 273; p. 115.
Air-pressure control, Automatic. A. C. Kingsbury. No. 1,336,301; Apr. 6; v. 273; p. 112.
Air-vent, Automatic. P. Carroll. No. 1,336,280; Apr. 6; v. 273; p. 108.
Airplane. H. Kleckler. No. 1,336,405; Apr. 6; v. 273; p. 132.
Airplane. B. H. Mull. No. 1,335,852; Apr. 6; v. 273; p. 27.
Alloy of iron, zirconium, and titanium and production thereof. H. C. Sicard. No. 1,335,991; Apr. 6; v. 273; p. 55.
Alloy of zirconium and lead, Producing an. N. Petinot. No. 1,335,982; Apr. 6; v. 273; p. 53.
Alloys containing zirconium carbid, Producing. N. Petinot. No. 1,335,983; Apr. 6; v. 273; p. 53.
Amusement device. B. Klein. No. 1,336,082; Apr. 6; v. 273; p. 71.
Anchor, Stockless. F. Briner. No. 1,335,816; Apr. 6; v. 273; p. 21.
Anhydrid, Phthalic. C. E. Andrews. No. 1,336,182; Apr. 6; v. 273; p. 90.
Ankle-brace and arch-support. F. Tranmer. No. 1,336,001; Apr. 6; v. 273; p. 56.
Annealing-furnace. K. Berglof. No. 1,336,190; Apr. 6; v. 273; p. 92.
Antenna with distributed positive resistance. M. I. Pupin and E. H. Armstrong. No. 1,336,378; Apr. 6; v. 273; p. 127.
Antiskid device. H. W. White and A. T. Sheldon. No. 1,336,175; Apr. 6; v. 273; p. 89.
Antispinning device. D. Turner. No. 1,336,265; Apr. 6; v. 273; p. 106.
Artillery and other purposes, Road wheeled units for. E. Schneider. No. 1,335,759; Apr. 6; v. 273; p. 11.
Auto attachment. J. Lines. No. 1,336,305; Apr. 6; v. 273; p. 113.
Auto-lock. G. F. Smith. No. 1,336,384; Apr. 6; v. 273; p. 129.
Automatic stabilizing apparatus. L. I. Henry. No. 1,335,893; Apr. 6; v. 273; p. 36.
Automobile-buffer. W. G. Cox. No. 1,335,877; Apr. 6; v. 273; p. 32.
Automobile danger-signal. J. Schacht. No. 1,336,381; Apr. 6; v. 273; p. 128.
Aeroplane mechanisms, Automatic switch-operating device for. E. E. G. Hedenstrom. No. 1,336,138; Apr. 6; v. 273; p. 82.
Aluminum-solder. J. G. Kelly. No. 1,336,081; Apr. 6; v. 273; p. 71.
Automobile-locking device. C. G. Read. No. 1,336,379; Apr. 6; v. 273; p. 127.
Automobile protective device. O. C. Lohse. No. 1,336,306; Apr. 6; v. 273; p. 113.
Automobile-theft-detection device. W. J. Finn. No. 1,335,827; Apr. 6; v. 273; p. 23.
Automobile-wheel jack. A. Erbel and J. Wuepper. No. 1,335,885; Apr. 6; v. 273; p. 34.
Automobiles, Clutch-releasing mechanism for. A. T. Sturt. No. 1,336,000; Apr. 6; v. 273; p. 56.
Automobiles, Semaphore for. A. and H. Bachman. No. 1,336,063; Apr. 6; v. 273; p. 68.
Automobiles, Tractor attachment for. G. S. Jacobs. No. 1,335,836; Apr. 6; v. 273; p. 25.
Awning, Window-. H. C. Baker. No. 1,335,930; Apr. 6; v. 273; p. 42.
Bar: *See*—
Boring-bar.
Barrel. W. W. Wood. No. 1,336,011; Apr. 6; v. 273; p. 58.
Barrel, Collapsible. S. A. and M. A. Knapp. No. 1,336,358; Apr. 6; v. 273; p. 123.
Barrel-handling device. W. A. Robinson. No. 1,335,796; Apr. 6; v. 273; p. 18.
Bath-shower, Portable. K. K. Jensen. No. 1,336,034; Apr. 6; v. 273; p. 63.
Battery-plates, Terminal means for. C. C. Carpenter. No. 1,336,127; Apr. 6; v. 273; p. 80.
Beads, Implement for threading embroidery-. R. O. Trueb. No. 1,335,805; Apr. 6; v. 273; p. 19.
Bearing, Ball-. T. Hegelman. No. 1,336,352; Apr. 6; v. 273; p. 122.
Bearing-finder. W. Wingate. No. 1,336,010; Apr. 6; v. 273; p. 58.
Bearing, Roller-. E. H. W. Welbull. No. 1,335,766; Apr. 6; v. 273; p. 12.
Bed. F. M. Garner. No. 1,335,961; Apr. 6; v. 273; p. 49.
Bed-bottom hanger. D. C. Travis and F. Kusterle. No. 1,336,397; Apr. 6; v. 273; p. 131.
Bed-chair. J. A. Arton. No. 1,336,062; Apr. 6; v. 273; p. 67.
Bed, cradle, and wardrobe, Combination baby's. W. W. Knight. No. 1,336,240; Apr. 6; v. 273; p. 101.
Bed-rail and lock. J. A. Charbonnet. No. 1,336,282; Apr. 6; v. 273; p. 109.
Bed-rest. W. H. Clampett. No. 1,336,197; Apr. 6; v. 273; p. 93.
Bed-rest. A. Hackman. No. 1,336,294; Apr. 6; v. 273; p. 111.
Bed-spring fabric. C. W. Piper. No. 1,335,984; Apr. 6; v. 273; p. 53.
Beet-gathering machine. J. A. Caywood. No. 1,336,024; Apr. 6; v. 273; p. 61.
Beet screening, piling, and loading machine. F. Jones. No. 1,336,297; Apr. 6; v. 273; p. 112.
Beet-topper. M. A. Greene. No. 1,335,962; Apr. 6; v. 273; p. 49.
Belt-shifter. G. E. Jackson. No. 1,335,736; Apr. 6; v. 273; p. 6.
Bevel. J. W. Smith. No. 1,336,102; Apr. 6; v. 273; p. 75.
Billiard tables, Ball-receptacle for pocket-. J. S. Trew. No. 1,335,924; Apr. 6; v. 273; p. 41.
Bit: *See*—
Bridle-bit.
Blast-furnace, Electric. J. Bibby and J. O. Boving. No. 1,336,017; Apr. 6; v. 273; p. 59.
Bleaching-boiler plant. C. Tiitsch. No. 1,335,925; Apr. 6; v. 273; p. 42.
Block: *See*—
Building-block.
Block-press. W. H. Shortell. No. 1,336,164; Apr. 6; v. 273; p. 87.
Board: *See*—
Game-board.
Boiler compounds, Feeder for. E. F. Stewart. No. 1,335,802; Apr. 6; v. 273; p. 19.
Boilers, Manufacture of stay-bolts for. J. R. Flannery. No. 1,336,213; Apr. 6; v. 273; p. 96.
Bomb. W. O. Spencer. No. 1,335,996; Apr. 6; v. 273; p. 55.
Book-holder. E. J. Boyer. No. 1,336,275; Apr. 6; v. 273; p. 108.
Bookbinding. A. Cobb. No. 1,336,198; Apr. 6; v. 273; p. 93.
Boring-bar. J. R. Martin. No. 1,336,311; Apr. 6; v. 273; p. 114.
Bottle carrier, Milk-. G. T. Rix. No. 1,336,049; Apr. 6; v. 273; p. 65.
Bottle-filling device. D. C. Dannelley. No. 1,336,071; Apr. 6; v. 273; p. 69.
Bottle, Non-refillable. E. Miller. No. 1,336,252; Apr. 6; v. 273; p. 104.
Box: *See*—
Toilet-box.
Box. G. E. Krause. No. 1,335,787; Apr. 6; v. 273; p. 16.
Box-forming machine. M. Hess. No. 1,335,735; Apr. 6; v. 273; p. 6.

Brake-operating means for trailers. H. C. Jarvis. No. 1,336,235; Apr. 6; v. 273; p. 100.
Bread-making machinery. J. E. Pointon. No. 1,335,915; Apr. 6; v. 273; p. 40.
Bread-pan. S. Goodfriend. No. 1,336,292; Apr. 6; v. 273; p. 111.
Bridle-bit. B. E. Hensley. No. 1,335,964; Apr. 6; v. 273; p. 49.
Brush, Pneumatic paint-. F. Polcho. No. 1,336,316; Apr. 6; v. 273; p. 115.
Brush, Shaving-. F. Hyde. No. 1,335,896; Apr. 6; v. 273; p. 36.
Brushing and polishing apparatus, Driving mechanism for. W. Wlodkowski. No. 1,336,117; Apr. 6; v. 273; p. 78.
Building-block. W. T. Cook. No. 1,336,025; Apr. 6; v. 273; p. 61.
Building construction. W. H. Evers. No. 1,335,886; Apr. 6; v. 273; p. 34.
Building-stake. H. J. Victoria. No. 1,336,004; Apr. 6; v. 273; p. 57.
Burner: *See*—
Hydrocarbon-burner.
Butt-gage. J. W. Read. No. 1,336,157; Apr. 6; v. 273; p. 86.
Button. W. O. Lee. No. 1,336,243; Apr. 6; v. 273; p. 102.
Button, Short-contact push-. W. Gadke. No. 1,335,729; Apr. 6; v. 273; p. 5.
Cab, Auto-. J. Anderson. No. 1,336,331; Apr. 6; v. 273; p. 118.
Cabinet, Combined phonographic-disk-record and talking-machine. E. M. Howard. No. 1,335,967; Apr. 6; v. 273; p. 50.
Cabinet for gramophone and like records. L. A. de Becker. No. 1,336,206; Apr. 6; v. 273; p. 95.
Cabinet, Mechanical-draw-delivery filing-. A. T. J. Bahr. No. 1,336,183; Apr. 6; v. 273; p. 91.
Calculating-machine. A. Briechle. No. 1,335,815; Apr. 6; v. 273; p. 21.
Camera, Photographic. W. F. Folmer. No. 1,335,728; Apr. 6; v. 273; p. 5.
Cameras, Film-spool for photographic. J. H. Ramsey. No. 1,335,917; Apr. 6; v. 273; p. 40.
Cameras, Inscription printing attachment for. S. G. Zuckerman. No. 1,336,330; Apr. 6; v. 273; p. 118.
Can ends, Lining. N. A. Acker. No. 1,336,013; Apr. 6; v. 273; p. 59.
Can-opener. G. A. Carlson. No. 1,336,126; Apr. 6; v. 273; p. 80.
Cane and fish-rod, Combined. T. Poremba. No. 1,336,088; Apr. 6; v. 273; p. 72.
Cap and dust-cap, Combined valve-. A. B. Catterall. No. 1,336,023; Apr. 6; v. 273; p. 60.
Car-coupling. J. W. Weary. No. 1,335,868; Apr. 6; v. 273; p. 31.
Car, Railway-. W. F. Cremean. No. 1,336,134; Apr. 6; v. 273; p. 81.
Car seat, Railway-. W. S. Wright. No. 1,335,950; Apr. 6; v. 273; p. 46.
Car-wheel. A. L. Carroll. No. 1,336,128; Apr. 6; v. 273; p. 80.
Carbureter. D. L. F. Coombs. No. 1,336,070; Apr. 6; v. 273; p. 69.
Carbureter. C. V. Elliott. No. 1,336,288; Apr. 6; v. 273; p. 110.
Card-rack. C. M. Crook. No. 1,335,822; Apr. 6; v. 273; p. 22.
Carding apparatus, Transit chute for safety-pin-. C. B. Goldsmith. No. 1,335,731; Apr. 6; v. 273; p. 5.
Carriage for counter attachments. W. E. Hosch. No. 1,336,231; Apr. 6; v. 273; p. 100.
Carrier: *See*—
Bottle-carrier.
Overhead carrier.
Package and article carrier.
Case: *See*—
Dental toilet-case.
Casket. L. P. H. Bourk. No. 1,335,722; Apr. 6; v. 273; p. 4.
Cement. G. Witty. No. 1,336,178; Apr. 6; v. 273; p. 90.
Chair: *See*—
Bed-chair.
Rail-chair.
Chair. S. Kesselman. No. 1,335,973; Apr. 6; v. 273; p. 51.
Chair adjustment. O. Elton. No. 1,335,884; Apr. 6; v. 273; p. 34.
Chair-iron. O. Elton. No. 1,335,883; Apr. 6; v. 273; p. 34.
Chairs to floors, Means for detachably securing. J. A. Lambert. No. 1,335,842; Apr. 6; v. 273; p. 26.
Chill-mold. W. H. Nichols. No. 1,336,259; Apr. 26; v. 273; p. 105.
Chill-mold. W. H. Nichols. No. 1,336,260; Apr. 6; v. 273; p. 105.
Chlorids, Process and apparatus for the electrolytic decomposition of. B. Cataldi. No. 1,336,281; Apr. 6; v. 273; p. 109.
Chronometer-escapement. S. Tideman. No. 1,336,263; Apr. 6; v. 273; p. 106.
Circuit-breaker. N. J. Conrad. No. 1,336,069; Apr. 6; v. 273; p. 69.
Circuit-breaker, Float-operated. W. Zebell. No. 1,336,269; Apr. 6; v. 273; p. 107.
Circuit-breaker-indicating device. C. F. Kettering. No. 1,336,142; Apr. 6; v. 273; p. 83.
Circuit-breaker-indicating device. C. F. Kettering. No. 1,336,143; Apr. 6; v. 273; p. 83.
Clam-digger. A. W. Crago. No. 1,336,203; Apr. 6; v. 273; p. 94.
Clamp: *See*—
Squaring-clamp.
Clasp: *See*—
Envelop-clasp.
Paper-fastening clasp.
Classifying finely-divided material. W. A. Schmidt. No. 1,335,758; Apr. 6; v. 273; p. 10.
Cleaner: *See*—
Keyboard-cleaner.
Shoe-cleaner.
Suction-cleaner.
Clip. C. W. Cass and W. L. Baxter. No. 1,336,129; Apr. 6; v. 273; p. 81.
Clock and signal system, Electric. H. C. Prey. No. 1,336,318; Apr. 6; v. 273; p. 116.
Clock, Calendar-. A. Niemczura. No. 1,336,150; Apr. 6; v. 273; p. 84.
Clocks, Dial-mat fastening for. W. L. Crouch and A. E. Rust. No. 1,336,204; Apr. 6; v. 273; p. 95.
Clothesline-support. F. Baron. No. 1,336,186; Apr. 6; v. 273; p. 91.
Clutch, Friction-. A. Mill. No. 1,335,748; Apr. 6; v. 273; p. 8.
Collar-fastener. J. B. Maxfield. No. 1,336,147; Apr. 6; v. 273; p. 84.
Combustion apparatus. L. L. Scott. No. 1,336,261; Apr. 6; v. 273; p. 105.
Combustion-chambers, Means for feeding fuel to. V. Z. Caracristi. No. 1,336,125; Apr. 6; v. 273; p. 80.
Compressors, Automatic sealer and lubricator for refrigerating-. J. Ellmauer. No. 1,336,076; Apr. 6; v. 273; p. 70.
Concentrating-table. C. W. Wright. No. 1,336,327; Apr. 6; v. 273; p. 117.
Concrete building. F. M. Barton. No. 1,335,780; Apr. 6; v. 273; p. 15.
Concrete-mixer. E. W. Brackenbury. No. 1,335,934; Apr. 6; v. 273; p. 43.
Concrete-reinforcing means. E. Smulski. No. 1,336,166; Apr. 6; v. 273; p. 87.
Conveying mechanism. R. Leumann. No. 1,336,304; Apr. 6; v. 273; p. 113.
Cooker and sterilizer, Cereal. A. Johnson. No. 1,336,079; Apr. 6; v. 273; p. 71.
Corn and callous remover. J. S. Zelaya. No. 1,335,777; Apr. 6; v. 273; p. 14.
Cotton-picker head. C. N. Wisner. No. 1,336,176; Apr. 6; v. 273; p. 89.
Counter. C. P. Wetmore. No. 1,336,113; Apr. 6; v. 273; p. 78.
Coupling: *See*—
Car-coupling.
Hose and pipe coupling.
Coupling. E. M. Stout. No. 1,336,323; Apr. 6; v. 273; p. 116.
Coupling. T. White. No. 1,336,326; Apr. 6; v. 273; p. 117.
Coupling attachment. A. J. Anderson. No. 1,336,181; Apr. 6; v. 273; p. 90.
Cradle. C. Krey. No. 1,336,302; Apr. 6; v. 273; p. 113.
Creeper. D. Brightwell. No. 1,336,276; Apr. 6; v. 273; p. 108.
Crusher: *See*—
Gyratory crusher.
Cultivator. S. Clemens. No. 1,335,725; Apr. 6; v. 273; p. 4.
Cultivator. C. J. Gifford. No. 1,336,217; Apr. 6; v. 273; p. 97.
Cultivator, Spring-beam. J. G. Alexander. No. 1,335,928; Apr. 6; v. 273; p. 42.
Cup: *See*—
Grease-cup.
Cupola-charging mechanism. L. W. Kellum. No. 1,335,741; Apr. 6; v. 273; p. 7.
Curtain and portière hanger. W. Rakowski. No. 1,336,047; Apr. 6; v. 273; p. 65.
Curtain-fixture. D. Hoyt. No. 1,335,968; Apr. 6; v. 273; p. 50.
Curtain-frame. J. O'Callahan. No. 1,335,854; Apr. 6; v. 273; p. 28.
Curtain-pole and shade supporting bracket. G. D. Bruce. No. 1,335,954; Apr. 6; v. 273; p. 47.
Curtains, Detachable light for vehicle-. D. M. Winans. No. 1,336,116; Apr. 6; v. 273; p. 78.
Cycles, Elastic suspension of. E. L. Viard and F. A. Bouillit. No. 1,335,765; Apr. 6; v. 273; p. 12.
Davit. F. J. Super. No. 1,336,394; Apr. 6; v. 273; p. 130.
Davit, Lifeboat-. J. J. Eglit. No. 1,336,075; Apr. 6; v. 273; p. 70.
Decking apparatus. A. Copony. No. 1,336,201; Apr. 6; v. 273; p. 94.
Dental instrument. J. E. Reid and C. Kienle. No. 1,335,987; Apr. 6; v. 273; p. 54.
Dental toilet-case. G. T. Cornelius. No. 1,336,345; Apr. 6; v. 273; p. 121.
Diaphragm-sounder. H. S. A. Rydberg. No. 1,335,921; Apr. 6; v. 273; p. 41.
Die. F. E. Mueller. No. 1,335,907; Apr. 6; v. 273; p. 38.
Die. F. E. Mueller. No. 1,335,908; Apr. 6; v. 273; p. 39.
Die. C. W. Youngberg. No. 1,336,388; Apr. 6; v. 273; p. 129.

Dies and a hub or sinker therefor, Manufacturing. J. Giebel and F. H. Zimmerman. (Reissue.) No. 14,835; Apr. 6; v. 273; p. 133.
Digger: *See*—
Clam-digger.
Posthole-digger.
Dish, Laboratory-. J. J. Mojonnier. No. 1,336,043; Apr. 6; v. 273; p. 64.
Disinfectant, antiseptic, deodorant, or detergent. C. Billing. No. 1,336,272; Apr. 6; v. 273; p. 107.
Disk-record holder. F. Grammich. No. 1,336,293; Apr. 6; v. 273; p. 111.
Disk, Vibratory. P. Lachman and G. Thomas. No. 1,336,036; Apr. 6; v. 273; p. 63.
Distillation, Destructive. C. Turner. No. 1,336,264; Apr. 6; v. 273; p. 106.
Doll, Walking. H. Trabert. No. 1,335,804; Apr. 6; v. 273; p. 19.
Dolly extension. G. A. De Graff. No. 1,336,073; Apr. 6; v. 273; p. 70.
Door. J. Johnson. No. 1,335,838; Apr. 6; v. 273; p. 25.
Door-fastening device, Automatically-operating hood-. W. H. Farr. No. 1,335,958; Apr 6; v. 273; p. 48.
Door, Grain-. P. Chesebro. No. 1,336,068; Apr. 6; v. 273; p. 69.
Doors, Controlling mechanism for. F. N. Pearson. No. 1,335,750; Apr. 6; v. 273; p. 9.
Dough-mixing machine. F. M. Jones. No. 1,335,737; Apr. 6; v. 273; p. 6.
Drafting-machine. A. C. La May. No. 1,336,241; Apr. p; v. 273; p. 102.
Drill. F. R. Weathersby. No. 1,336,006; Apr. 6; v. 273; p. 57.
Drinking-fountain. W. Doucette. No. 1,336,401; Apr. 6; v. 273; p. 131.
Drum tightening-ear. C. S. Walton. No. 1,335,867; Apr. 6; v. 273; p. 30.
Dust and lint collecting system. S. J. B. Whited. No. 1,336,007; Apr. 6; v. 273; p. 57.
Electric heater. E. W. Brown. No. 1,336,021; Apr. 6; v. 273; p. 60.
Electric-light switch. F. S. Riggs. No. 1,335,753; Apr. 6; v. 273; p. 10.
Electric switch. H. E. Campbell. No. 1,335,936; Apr. 6; v. 273; p. 44.
Electric wires, Cord-terminal for. A. L. Emens. No. 1,335,943; Apr. 6; v. 273; p. 45.
Electrical fitting. M. F. Finkelstein. No. 1,336,290; Apr. 6; v. 273; p. 110.
Electrical switch. B. D. Horton. No. 1,335,834; Apr. 6; v. 273; p. 24.
Electrode-holder. J. Hughes. No. 1,335,895; Apr. 6; v. 273; p. 36.
Electrolytic process and product. M. M. Merritt. No. 1,335,846; Apr. 6; v. 273; p. 26.
Electroplating, Apparatus for. G. C. Pinger. No. 1,336,052; Apr. 6; v. 273; p. 66.
Elevator. D. A. Beaudry. No. 1,335,719; Apr. 6; v. 273; p. 3.
Elevator safety device. J. R. Stroud. No. 1,336,170; Apr. 6; v. 273; p. 88.
Elevator-shafts, Removable flooring for. W. J. Morrin. No. 1,335,849; Apr. 6; v. 273; p. 27.
Embroidery-frame. R. O. Trueb. No. 1,335,806; Apr. 6; v. 273; p. 19.
Engine: *See*—
Internal-combustion engine.
Engines, Aerating device for primers for internal-combustion. H. Kocourek. No. 1,336,144; Apr. 6; v. 273; p. 83.
Engines, Fuel-heater for internal-combustion. P. F. O'Shaughnessy. No. 1,336,152; Apr. 6; v. 273; p. 85.
Engines, High-voltage current-distributing apparatus for electric ignition apparatus of internal-combustion. J. Bohli. No. 1,335,933; Apr. 6; v. 273; p. 43.
Engines, Means for packing and lubricating the pistons of internal-combustion and other. G. Blankfield. No. 1,336,342; Apr. 6; v. 273; p. 120.
Engines, Method and apparatus for making valves for internal-combustion. C. R. Short and A. L. Cash. No. 1,335,862; Apr. 6; v. 273; p. 30.
Engines, Oil-cooling system for explosive-. C. V. Morse. No. 1,336,368; Apr. 6; v. 273; p. 125.
Engines, Spark-controlling mechanism for internal-combustion. J. F. Gorman. No. 1,336,350; Apr. 6; v. 273; p. 122.
Engines, Water-circulating pump for combustion-. O. T. Scharmann. No. 1,336,091; Apr. 6; v. 273; p. 73.
Envelop-clasp. G. C. Moxon. No. 1,335,851; Apr. 6; v. 273; p. 27.
Envelop construction. J. C. Blue. No. 1,335,814; Apr. 6; v. 273; p. 21.
Envelop, Record-index. J. Zimmerman. No. 1,336,270; Apr. 6; v. 273; p. 107.
Excavating-machine. R. A. Bayles. No. 1,335,932; Apr. 6; v. 273; p. 43.
Expansion-joint. R. Ullrich. No. 1,336,111; Apr. 6; v. 273; p. 77.
Explosive. J. R. Mardick. No. 1,335,788; Apr. 6; v. 273; p. 16.
Explosive. J. R. Mardick and F. M. Becket. No. 1,335,789; Apr. 6; v. 273; p. 16.
Explosive and preparing same. J. R. Mardick. No. 1,335,790; Apr. 6; v. 273; p. 16.
Explosives, Manufacture of. G. A. Hedberg. No. 1,335,785; Apr. 6; v. 273; p. 16.
Extension-table. J. Rogginger. No. 1,335,859; Apr. 6; v. 273; p. 29.
Eye-cup and container, Combination. C. H. Trullinger. No. 1,336,109; Apr. 6; v. 273; p. 77.
Eye-shield. W. H. Wilmer. No. 1,336,009; Apr. 6; v. 273; p. 58.
Eyeglasses and spectacles, Rim for. E. R. Durgin. No. 1,335,942; Apr. 6; v. 273; p. 45.
Fabric: *See*—
Bed-spring fabric.
Wire fabric.
Fabric-making machine. H. E. Brown. No. 1,336,343; Apr. 6; v. 273; p. 120.
Fabrics, Stentering or stretching device applicable to heated cylindrical can-drying machines for textile. J. R. Stevenson. No. 1,336,385; Apr. 6; v. 273; p. 129.
Fastener. E. J. Bryan. No. 1,336,193; Apr. 6; v. 273; p. 93.
Fastening device. G. D. Preston. No. 1,336,156; Apr. 6; v. 273; p. 85.
Faucet. E. M. Dempsey. No. 1,336,026; Apr. 6; v. 273; p. 61.
Faucet, Combination-. J. T. Johnson. No. 1,336,236; Apr. 6; v. 273; p. 101.
Feeder. C. F. Schumacher. No. 1,336,320; Apr. 6; v. 273; p. 116.
Feet, Device for the prevention and treatment of deformed. D. J. Morton. No. 1,335,981; Apr. 6; v. 273; p. 53.
Fence-machines, Measuring device for. A. C. Mills. No. 1,335,980; Apr. 6; v. 273; p. 53.
Fender. E. Burch. No. 1,336,277; Apr. 6; v. 273; p. 108.
Fiber-cleaning device. R. Quijano. No. 1,336,046; Apr. 6; v. 273; p. 65.
Fibrous board and producing same, Reinforced. T. B. Munroe. No. 1,335,910; Apr. 6; v. 273; p. 39.
File, Flexible. G. F. Vorhauer. No. 1,335,866; Apr. 6; v. 273; p. 30.
Filling machine, Hand-pack-. C. S. Bucklin. No. 1,335,819; Apr. 6; v. 273; p. 22.
Film-holder. H. H. Pierce. No. 1,336,377; Apr. 6; v. 273; p. 127.
Films, Apparatus for drying coated. C. Rosier. No. 1,336,050; Apr. 6; v. 273; p. 65.
Filter, Fluid-. W. R. Kahlenberg. No. 1,335,899; Apr. 6; v. 273; p. 37.
Fire-door-operating device. F. B. Searle. No. 1,336,054; Apr. 6; v. 273; p. 66.
Firearms, Safety device for. B. F. Schmidt. No. 1,335,988; Apr. 6; v. 273; p. 54.
Fish-trap. E. M. Johnson. No. 1,336,356; Apr. 6; v. 273; p. 123.
Flask: *See*—
Molder's flask.
Floral device. D. W. Ludwig. No. 1,336,249; Apr. 6; v. 273; p. 103.
Fluid-mixing apparatus. E. Ruud. Reissue. No. 14,836; Apr. 6; v. 273; p. 133.
Fluid-pressure-operated controller. O. M. Jones. No. 1,335,898; Apr. 6; v. 273; p. 37.
Fly and hook, Artificial floating. H. W. Hayes. No. 1,336,227; Apr. 6; v. 273; p. 99.
Fountain: *See*—
Drinking-fountain.
Frame: *See*—
Curtain-frame.
Embroidery-frame.
Fruit-grader. W. I. Winchester. No. 1,336,059; Apr. 6; v. 273; p. 67.
Fruit-jar. W. C. and C. R. Martineau. No. 1,336,367; Apr. 6; v. 273; p. 125.
Fuel, Apparatus for treating. W. L. McLaughlin. No. 1,336,364; Apr. 6; v. 273; p. 125.
Fuel-feed device, Vacuum. W. H. Muzzy. No. 1,335,792; Apr. 6; v. 273; p. 17.
Fulcrum, Brake-beam. A. H. Peycke. No. 1,335,914; Apr. 6; v. 273; p. 40.
Fulcrum, Forming a forged. L. L. Whitney. No. 1,335,808; Apr. 6; v. 273; p. 20.
Furnace: *See*—
Annealing-furnace.
Blast-furnace.
Liquid-heating furnace.
Metal-heating furnace.
Non-crucible furnace.
Furnaces, Construction of catalyst. H. C. Greenwood and W. R. Tate. No. 1,335,891; Apr. 6; v. 273; p. 35.
Furniture, Printer's. D. A. Hampson. No. 1,336,223; Apr. 6; v. 273; p. 98.
Fuse, Detonator-. J. B. Semple. No. 1,336,391; Apr. 6; v. 273; p. 130.
Fuse-plug. E. G. K. Anderson. No. 1,335,810; Apr. 6; v. 273; p. 20.
Fuse plug, Multiple-. E. M. King. No. 1,336,238; Apr. 6; v. 273; p. 101.
Gage: *See*—
Butt-gage.
Impulse-pressure gage.
Screw-thread gage.
Water-gage.
Game-board. T. V. Stewart. No. 1,336,169; Apr. 6; v. 273; p. 88.
Garment. M. M. Lauzon. No. 1,336,305; Apr. 6; v. 273; p. 113.
Garment and making same, Burial-. H. T. Loomis. No. 1,336,248; Apr. 6; v. 273; p. 103.
Garment-hanger. J. L. Lyman. No. 1,335,902; Apr. 6; v. 273; p. 37.
Garment-hanger. F. [illegible] Owen. No. 1,336,377; Apr. 6; v. 273; p. 127.

Garment-supporter. F. W. Miller. No. 1,336,312; Apr. 6; v. 273; p. 115.
Gas-burner and body-covering therefor. J. H. Ackroyd. No. 1,335,869; Apr. 6; v. 273; p. 31.
Gas-mantle. L. Glaser. No. 1,335,831; Apr. 6; v. 273; p. 24.
Gases from vessels, Arrangement for evacuating. H. Gerdien. No. 1,335,829; Apr. 6; v. 273; p. 24.
Gearing, Automobile transmission-. O. K. Bakken. No. 1,335,811; Apr. 6; v. 273; p. 20.
Gearing, Transmission-. W. Christie. No. 1,336,182; Apr. 6; v. 273; p. 81.
Glass-blowing machines, Automatic take-off device for. H. C. Fentress. No. 1,336,028; Apr. 6; v. 273; p. 62.
Glass, Method of and apparatus for drawing. A. E. Spinasse. No. 1,336,056; Apr. 6; v. 273; p. 66.
Globe. A. Schrenkeisen. No. 1,335,923; Apr. 6; v. 273; p. 41.
Grease-cup. C. C. Hamilton and J. Hutchinson. No. 1,336,135; Apr. 6; v. 273; p. 82.
Griddle-greaser. A. St. Onge. No. 1,335,998; Apr. 6; v. 273; p. 56.
Grinder. C. M. Cook. No. 1,336,200; Apr. 6; v. 273; p. 94.
Grinding-machine. R. C. Mitchell. No. 1,335,905; Apr. 6; v. 273; p. 38.
Gun breech-blocks comprising removable firing-tube holder, Safety mechanism for use with. E. Schneider. No. 1,336,093; Apr. 6; v. 273; p. 74.
Gun breech-blocks comprising removable firing-tube holders, Safety mechanism for use with. E. Schneider. No. 1,336,096; Apr. 6; v. 273; p. 74.
Gun-carriage, Single-trail. E. Schneider. No. 1,336,095; Apr. 6; v. 273; p. 74.
Gun, Machine-. J. S. Johnston. No. 1,335,839; Apr. 6; v. 273; p. 25.
Gun rig, Rivet-. W. B. Ashe and F. C. Bevins. No. 1,336,121; Apr. 6; v. 273; p. 79.
Gun-sight. C. Skopal. No. 1,336,165; Apr. 6; v. 273; p. 87.
Guns, Aiming apparatus for. E. Schneider. No. 1,336,094; Apr. 6; v. 273; p. 74.
Guns, Grinding apparatus specially applicable for grinding the interior of the A-tubes of. J. W. Barnes. No. 1,336,014; Apr. 6; v. 273; p. 59.
Gyratory crusher. R. Bernhard. No. 1,336,015; Apr. 6; v. 273; p. 59.
Handle: *See*—
Knife-handle.
Hanger: *See*—
Curtain and portière hanger.
Bed-bottom hanger.
Garment-hanger.
Hardening-machine. C. G. Olson. No. 1,335,912; Apr. 6; v. 273; p. 39.
Harvester, Beet-. C. Nelson and L. A. Coffeen. No. 1,336,313; Apr. 6; v. 273; p. 115.
Harvesters, Vertical cutter-bar attachment for. O. P. Williams. No. 1,336,267; Apr. 6; v. 273; p. 106.
Harvesting-machines, Pitman-protector for. M. A. Johnson. No. 1,335,897; Apr. 6; v. 273; p. 36.
Hay-loader. N. M. Bowers. No. 1,336,065; Apr. 6; v. 273; p. 68.
Heater: *See*—
Electric heater. Oil-heater.
Heel. J. Burger. No. 1,336,194; Apr. 6; v. 273; p. 93.
Heel-molds, Machine for placing washers in. B. W. Martin and H. Sams. No. 1,336,319; Apr. 6; v. 273; p. 116.
Heels, Clamp for use in trimming boot and shoe. L. A. Trull. No. 1,336,002; Apr. 6; v. 273; p. 57.
Hinge, Concealed or invisible butt-. J. H. Way. No. 1,336,174; Apr. 6; v. 273; p. 89.
Hinge, Sash-. C. Stover. No. 1,335,999; Apr. 6; v. 273; p. 56.
Hinged covers or members, Support for. F. E. Levanseler. No. 1,336,085; Apr. 6; v. 273; p. 72.
Hoeing-machine, Automatic. C. L. Kennedy. No. 1,336,299; Apr. 6; v. 273; p. 112.
Hog-cholera serum, Producing refined. J. Reichel. No. 1,335,986; Apr. 6; v. 273; p. 53.
Hoisting mechanism. J. Dolan. No. 1,335,782; Apr. 6; v. 273; p. 15.
Hose and pipe coupling. C. W. Barnes. No. 1,336,123; Apr. 6; v. 273; p. 80.
Hose-supporter. H. Sacks. No. 1,336,053; Apr. 6; v. 273; p. 66.
Hydrocarbon-burner. J. C. Critchett. No. 1,336,285; Apr. 6; v. 273; p. 110.
Hydrocarbon-fuel intakes, Heater for. C. A. Lewis. No. 1,335,843; Apr. 6; v. 273; p. 26.
Hydrocarbon-motor. C. R. Short. No. 1,335,990; Apr. 6; v. 273; p. 54.
Hydrocarbons, Apparatus for cracking. F. E. Wellman. No. 1,335,771; Apr. 6; v. 273; p. 13.
Hydrocarbons, Process of and apparatus for refining liquid. F. E. Wellman. No. 1,335,768; Apr. 6; v. 273; p. 12.
Hygroscope, Portable. C. Sampietro. No. 1,336,380; Apr. 6; v. 273; p. 128.
Ignition systems, Automatic circuit-opening switch for. G. A. Ream. No. 1,336,158; Apr. 6; v. 273; p. 86.
Impulse-pressure gage. L. B. Stone. No. 1,336,104; Apr. 6; v. 273; p. 76.
Index and display device, Card. E. F. Wilson. No. 1,336,115; Apr. 6; v. 273; p. 78.
Indicator: *See*—
Road-indicator.
Induction-coil. E. B. Jacobson. No. 1,335,837; Apr. 6; v. 273; p. 25.
Infant-seat. W. H. Young. No. 1,335,776; Apr. 6; v. 273; p. 14.
Ingot-casting machine. F. L. Jamison. No. 1,336,224; Apr. 6; v. 273; p. 100.
Insect-trap. L. A. Long. No. 1,335,845; Apr. 6; v. 273; p. 26.
Instep-support. W. C. Burns. No. 1,336,278; Apr. 6; v. 273; p. 108.
Insulating material, Composite. Weiss, H. F. No. 1,336,403; Apr. 6; v. 273; p. 132.
Insulating material, Composite. H. F. Weiss. No. 1,336,404; Apr. 6; v. 273; p. 132.
Insulator. L. Steinberger. No. 1,335,801; Apr. 6; v. 273; p. 18.
Internal-combustion engine. C. H. T. Alston. No. 1,335,952; Apr. 6; v. 273; p. 47.
Internal-combustion engine. H. V. J. Jouffret. No. 1,336,298; Apr. 6; v. 273; p. 112.
Internal-combustion engine. O. T. Nelson. No. 1,336,871; Apr. 6; v. 273; p. 126.
Internal-combustion engine. O. T. Nelson. No. 1,336,872; Apr. 6; v. 273; p. 126.
Internal-combustion engine. P. J. M. Sullivan. No. 1,335,764; Apr. 6; v. 273; p. 12.
Internal-combustion engine. F. G. Welke. No. 1,335,947; Apr. 6; v. 273; p. 46.
Internal-combustion engine, Two-stroke. A. Isliker. No. 1,336,232; Apr. 6; v. 273; p. 100.
Internal-combustion motor. A. L. Smith. No. 1,336,392; Apr. 6; v. 273; p. 130.
Iron: *See*—
Chair-iron.
Irons, Apparatus for testing. A. Pozzo and G. Colombetti. No. 1,335,985; Apr. 6; v. 273; p. 53.
Irrigation-pipe system. G. W. Rice. No. 1,336,048; Apr. 6; v. 273; p. 65.
Jack: *See*—
Automobile-wheel jack. Furniture-jack.
Pump-jack. Vehicle-jack.
Jar: *See*—
Fruit-jar.
Jar-lifter. H. Morley. No. 1,336,255; Apr. 6; v. 273; p. 104.
Jar machines, Transfer device for fruit-. R. B. Pottorff. No. 1,336,317; Apr. 6; v. 273; p. 115.
Joint: *See*—
Expansion-joint. Universal joint.
Rail-joint.
Journal-bearings, Lubrication of. H. T. Newbigin. No. 1,336,373; Apr. 6; v. 273; p. 126.
Keyboard-cleaner. J. W. Pennewill. No. 1,336,044; Apr. 6; v. 273; p. 64.
Keyboard, Typewriter-. F. M. M. Banaji. No. 1,336,122; Apr. 6; v. 273; p. 79.
Kitchen, Field-. V. De Carlo. No. 1,335,941; Apr. 6; v. 273; p. 45.
Knife: *See*—
Surgeon's plaster-knife.
Knife-handle. P. Mertens and H. Backert. No. 1,335,847; Apr. 6; v. 273; p. 27.
Lamp, Battery hand-. C. F. Burgess. No. 1,336,067; Apr. 6; v. 273; p. 68.
Lamp-dimmer. C. W. Eisele. No. 1,335,727; Apr. 6; v. 273; p. 5.
Lamp-dimmer. G. W. Ray and W. V. Harrington. No. 1,335,918; Apr. 6; v. 273; p. 40.
Lamp-socket construction. O. S. Swanson. No. 1,336,395; Apr. 6; v. 273; p. 130.
Lamp-socket structure. H. A. Framburg. No. 1,335,828; Apr. 6; v. 273; p. 23.
Lantern. J. N. Klema. No. 1,335,841; Apr. 6; v. 273; p. 26.
Lantern. F. W. Vinton. No. 1,336,112; Apr. 6; v. 273; p. 77.
Lasting-machine. O. Ashton. No. 1,335,779; Apr. 6; v. 273; p. 15.
Lathes, Cylinder-grinding attachment for. W. T. Snell. No. 1,335,994; Apr. 6; v. 273; p. 55.
Lavatory. E. G. Watrous. No. 1,335,946; Apr. 6; v. 273; p. 45.
Leather and joint made thereby, Joining. W. Gibb. No. 1,335,830; Apr. 6; v. 273; p. 24.
Leg, Artificial. C. Desoutter. No. 1,335,781; Apr. 6; v. 273; p. 15.
Lens-testing instrument. H. B. Mathewson. No. 1,336,040; Apr. 6; v. 273; p. 64.
Life-preserver, Jacket-type. C. H. Young. No. 1,336,400; Apr. 6; v. 273; p. 131.
Light-controlling device. W. J. Harvey. No. 1,335,832; Apr. 6; v. 273; p. 24.
Light-distributing means. W. H. Fulton. No. 1,335,889; Apr. 6; v. 273; p. 35.
Lineman's climber. J. M. Frisbie and E. C. Tilton. No. 1,335,945; Apr. 6; v. 273; p. 45.
Liquid-dispensing devices, Cooling means for. C. A. Tripp. No. 1,336,172; Apr. 6; v. 273; p. 89.
Liquid-heating furnace. F. E. Wellman. No. 1,335,774; Apr. 6; v. 273; p. 14.

Lock: *See*—
Auto-lock. Permutation hasp-lock.
Nut and bolt lock. Sash-lock.
Padlock. Slug-lock.
Lock. H. H. Crane. No. 1,335,821; Apr. 6; v. 273; p. 22.
Lock. J. Karasevicz. No. 1,336,080; Apr. 6; v. 273; p. 71.
Lock-washer. W. F. Farnsworth. No. 1,335,944; Apr. 6; v. 273; p. 45.
Looms, Automatic controlling attachment for. L. Rothfuchs. No. 1,336,089; Apr. 6; v. 273; p. 73.
Looms, Shed-forming mechanism for. L. W. Coupe. No. 1,335,876; Apr. 6; v. 273; p. 32.
Measuring appliance, Automatic liquid-. L. M. Smith. No. 1,335,800; Apr. 6; v. 273; p. 18.
Lubricant-delivering device, Self-measuring. D. W. Barr. No. 1,336,187; Apr. 6; v. 273; p. 91.
Lubricating composition, Making. J. A. De Cew. No. 1,336,207; Apr. 6; v. 273; p. 95.
Magneto with watertight casing. G. A. Chailliley. No. 1,336,196; Apr. 6; v. 273; p. 93.
Marker. C. A. Fischer. No. 1,336,029; Apr. 6; v. 273; p. 62.
Match-boxing attachment. G. Lispenard. No. 1,336,245; Apr. 6; v. 273; p. 102.
Match-container. H. Humm. No. 1,335,970; Apr. 6; v. 273; p. 51.
Match-machine attachment. G. Lispenard. No. 1,336,244; Apr. 6; v. 273; p. 102.
Match-machine hoppers, Pin-gate for. G. Lispenard. No. 1,336,247; Apr. 6; v. 273; p. 103.
Match-machines, Registering attachment for. G. Lispenard. No. 1,336,246; Apr. 6; v. 273; p. 102.
Mats of fibrous material, Production of. H. F. Weiss. No. 1,336,402; Apr. 6; v. 273; p. 132.
Mattress. F. Hoffmann. No. 1,335,965; Apr. 6; v. 273; p. 50.
Mattress-holder. C. A. Van Demark. No. 1,336,003; Apr. 6; v. 273; p. 57.
Measuring and computing machine, Fabric. W. E. Hosch. No. 1,336,230; Apr. 6; v. 273; p. 99.
Metal building unit. J. D. Waern. No. 1,336,324; Apr. 6; v. 273; p. 117.
Metal-heating furnace. H. D. Williams and W. Ahlen. No. 1,336,266; Apr. 6; v. 273; p. 106.
Metal in lubricating-oil, Means for arresting particles of. F. J. Cox. No. 1,335,955; Apr. 6; v. 273; p. 48.
Metal wheel. J. A. Angiada. No. 1,336,334; Apr 6; v. 273; p. 119.
Metal while being milled, Apparatus for forming a smooth surface on. T. B. Kinraide. No. 1,336,239; Apr. 6; v. 273; p. 101.
Metal-working feeding mechanism. A. Troesch. No. 1,336,108; Apr. 6; v. 273; p. 77.
Metallic articles, Method of and apparatus for heat-treating. H. P. Macdonald. No. 1,335,977; Apr. 6; v. 273; p. 52.
Milk in centrifugal apparatus, Inlet device for the whole-. S. A. Eskilson. No. 1,335,784; Apr. 6; v. 273; p. 16.
Milking-machines, Pulsator for. H. B. Babson. No. 1,335,953; Apr. 6; v. 273; p. 47.
Mining machine, Coal-. G. McCarter. No. 1,336,039; Apr. 6; v. 273; p. 63.
Mixer: *See*—
Concrete-mixer.
Mixing and dispensing apparatus, Combined. P. Forman. No. 1,336,214; Apr. 6; v. 273; p. 96.
Mold: *See*—
Chill-mold.
Molder's flask. R. S. Buch. No. 1,335,818; Apr. 6; v. 273; p. 22.
Molding-core. L. C. Evon. No. 1,336,212; Apr. 6; v. 273; p. 96.
Motor: *See*—
Air-motor. Internal-combustion motor.
Hydrocarbon-motor.
Motor-starting switch. C. H. Bissell. No. 1,336,064; Apr. 6; v. 273; p. 68.
Mower, Lawn-. E. E. Muzzy. No. 1,336,257; Apr. 6; v. 273; p. 105.
Muffler. R. Brown. No. 1,335,872; Apr. 6; v. 273; p. 31.
Multiplane, Convertible. J. P. Tarbox. No. 1,336,406; Apr. 6; v. 273; p. 132.
Multiple shaper. G. E. Stevenson. No. 1,335,864; Apr. 6; v. 273; p. 30.
Nail, Clench or expansion. E. C. Royer and B. J. Boyle. No. 1,336,162; Apr. 6; v. 273; p. 87.
Nest, Trap-. C. W. Bour. No. 1,336,191; Apr. 6; v. 273; p. 92.
Nipple protector, Baby-. L. E. Marsh. No. 1,336,366; Apr. 6; v. 273; p. 125.
Non-crucible furnace. J. E. Hausfeld. No. 1,336,137; Apr. 6; v. 273; p. 82.
Non-skid wheel. A. Nelson and O. H. Hinnard. No. 1,336,149; Apr. 6; v. 273; p. 84.
Nut and bolt lock. O. B. Kirkbride. No. 1,335,901; Apr. 6; v. 273; p. 37.
Nut-locking device. W. J. Hales. No. 1,336,077; Apr. 6; v. 273; p. 71.
Oil, Apparatus for refining. F. E. Wellman. No. 1,335,772; Apr. 6; v. 273; p. 13.
Oil-cakes, Means for forming. R. A. Trace. No. 1,336,171; Apr. 6; v. 273; p. 88.
Oil-heater. R. Dougherty and J. F. Kirby. No. 1,336,208; Apr. 6; v. 273; p. 95.
Oil-refining apparatus. F. E. Wellman. No. 1,335,767; Apr. 6; v. 273; p. 12.
Oil, System for cracking mineral. F. E. Wellman. No. 1,335,769; Apr. 6; v. 273; p. 13.
Oils, Apparatus for refining. H. W. Jones. No. 1,336,357; Apr. 6; v. 273; p. 123.
Oils, Apparatus for refining mineral. F. E. Wellman. No. 1,335,773; Apr. 6; v. 273; p. 14.
Oils, System for treating hydrocarbon. F. E. Wellman and F. H. Sibley. No. 1,335,770; Apr. 6; v. 273; p. 13.
Operation-control record. H. A. Arthur. No. 1,336,120; Apr. 6; v. 273; p. 79.
Ore-concentrator. E. and W. F. Deister. No. 1,335,824; Apr. 6; v. 273; p. 23.
Oven, Electric. F. M. Sutton. No. 1,336,105; Apr. 6; v. 273; p. 76.
Oven, Removable. C. D. Wilson. No. 1,336,058; Apr. 6; v. 273; p. 67.
Oven rotary table. L. R. Lightle. No. 1,335,844; Apr. 6; v. 273; p. 26.
Overhead carrier. A. H. Neller. No. 1,336,370; Apr. 6; v. 273; p. 126.
Package and article carrier. C. Fulton. No. 1,335,888; Apr. 6; v. 273; p. 35.
Packing, Cord-. J. R. Gammeter. No. 1,336,030; Apr. 6; v. 273; p. 62.
Packing-form. A. B. Kellerman. No. 1,335,972; Apr. 6; v. 273; p. 51.
Padlock. P. Malaczynski. No. 1,336,309; Apr. 6; v. 273; p. 114.
Paints and other liquids, Machine for the mechanical application of. J. E. Mayo. No. 1,336,041; Apr. 6; v. 273; p. 64.
Pan: *See*—
Bread-pan.
Paper cardboard and like tubes, Apparatus for winding. J. S. Holmes. No. 1,335,894; Apr. 6; v. 273; p. 36.
Paper-carriage. A. Pentecost and W. W. Fisher. No. 1,335,794; Apr. 6; v. 273; p. 17.
Paper-fastening clasp. G. C. Moxon. No. 1,335,850; Apr. 6; v. 273; p. 27.
Paper holder, Toilet-. W. S. Howard. No. 1,336,140; Apr. 6; v. 273; p. 83.
Parcel-binder. A. L. Stansell. No. 1,336,168; Apr. 6; v. 273; p. 88.
Pedal-switch. S. F. Briggs and E. N. Jacobi. No. 1,336,066; Apr. 6; v. 273; p. 68.
Pen, Stylographic fountain-. J. T. Andersen. No. 1,336,119; Apr. 6; v. 273; p. 79.
Permutation hasp-lock. E. W. Flagg. No. 1,335,959; Apr. 6; v. 273; p. 48.
Phonograph driving mechanism. D. W. Allis. No. 1,335,809; Apr. 6; v. 273; p. 20.
Phonograph-record holder. W. H. Schlingloff. No. 1,336,382; Apr. 6; v. 273; p. 128.
Photograph-printing apparatus. H. Shapiro. No. 1,335,860; Apr. 6; v. 273; p. 29.
Phonograph-stop. F. A. Nolan. No. 1,335,911; Apr. 6; v. 273; p. 39.
Piano. C. Mehlin. No. 1,335,791; Apr. 6; v. 273; p. 17.
Picture effects upon enameled metal surfaces, Permanently producing. R. Sandby. No. 1,335,755; Apr. 6; v. 273; p. 10.
Picture machine, Framing device for motion-. W. Parkes. No. 1,335,749; Apr. 6; v. 273; p. 9.
Picture shutter, Moving-. J. H. Lehman. No. 1,335,744; Apr. 6; v. 273; p. 8.
Pictures, Rewinding means for motion-. W. F. Brinton. No. 1,335,817; Apr. 6; v. 273; p. 21.
Pipe: *See*—
Tobacco-pipe.
Pipe-coil. E. A. Russell. No. 1,335,799; Apr. 6; v. 273; p. 18.
Piston-ring adjuster. R. Hammerly. No. 1,336,222; Apr. 6; v. 273; p. 98.
Piston-ring-hammering machine. W. A. Oubridge. No. 1,336,153; Apr. 6; v. 273; p. 85.
Pivot. B. Liebowitz. No. 1,335,745; Apr. 6; v. 273; p. 8.
Planer, Road-. W. S. Foster. No. 1,336,215; Apr. 6; v. 273; p. 97.
Planing and finishing machine, Road. O. E. Moats. No. 1,335,906; Apr. 6; v. 273; p. 38.
Plant-stand. D. F. Loudon. No. 1,336,307; Apr. 6; v. 273; p. 114.
Planter. W. W. Barrett. No. 1,336,124; Apr. 6; v. 273; p. 80.
Plate, Ceiling and floor. A. C. Gaynor. No. 1,335,730; Apr. 6; v. 273; p. 5.
Plate, Handhole-. J. A. Woods. No. 1,336,012; Apr. 6; v. 273; p. 58.
Plate-puller. S. R. Gilmore. No. 1,336,291; Apr. 6; v. 273; p. 111.
Plumb-bob. P. T. Fagrie. No. 1,336,289; Apr. 6; v. 273; p. 110.
Plywood, Manufacturing. O. L. Sponsler, M. E. Dunlap, and S. B. Henning. No. 1,336,262; Apr. 6; v. 273; p. 105.
Position or the movement of a body or for controlling the auxiliary devices dependent on said position or movement, Apparatus for determining the. C. Schoute, F. A. van Heyst, and N. E. G. Meyer. No. 1,336,399; Apr. 6; v. 273; p. 131.

Porthole-screen. U. G. Lee. No. 1,336,038; Apr. 6; v. 273; p. 63.
Posthole-digger. W. S. Cronowert. No. 1,335,878; Apr. 6; v. 273; p. 33.
Posthole-digger, wire-tightener, and crowbar, Combined. G. Evans. No. 1,336,027; Apr. 6; v. 273; p. 61.
Pottery and like articles, Casting. B. J. Allen and R. Y. Ames. No. 1,336,180; Apr. 6; v. 273; p. 90.
Power-generating mechanism. L. W. Beaven. No. 1,336,188; Apr. 6; v. 273; p. 92.
Press: *See*—
Block-press.
Pressing apparatus. J. J. Berrigan. No. 1,336,341; Apr. 6; v. 273; p. 120.
Pressing-machine-control mechanism. H. C. Hoting. No. 1,335,835; Apr. 6; v. 273; p. 25.
Pressure-regulator. J. McNamara. No. 1,335,903; Apr. 6; v. 273; p. 37.
Puller: *See*—
Plate-puller.
Pump, Air-. A. Swensen. No. 1,336,396; Apr. 6; v. 273; p. 131.
Pump-jack. A. S. D. French. No. 1,335,960; Apr. 6; v. 273; p. 49.
Pump, Tire-inflating. H. K. Austin. No. 1,335,718; Apr. 6; v. 273; p. 3.
Pump, Water-. E. C. Newcomb. No. 1,336,258; Apr. 6; v. 273; p. 105.
Pumps, Gland and packing of centrifugal sand-. G. Lumley. No. 1,336,308; Apr. 6; v. 273; p. 114.
Rack: *See*—
Card-rack.
Rack and ironing-board, Combination. D. W. Robbins. No. 1,335,857; Apr. 6; v. 273; p. 28.
Radiator. J. B. Gabrielson. No. 1,335,890; Apr. 6; v. 273; p. 35.
Radiator, Condensing-. D. Benjamin. No. 1,335,812; Apr. 6; v. 273; p. 20.
Radiator, Motor-vehicle. P. F. Spery. No. 1,335,997; Apr. 6; v. 273; p. 56.
Radiator unit. H. C. Harrison. No. 1,336,136; Apr. 6; v. 273; p. 82.
Radiosignaling apparatus. R. A. Weagant. No. 1,336,398; Apr. 6; v. 273; p. 131.
Radius-rod truss. W. F. Hudson. No. 1,336,353; Apr. 6; v. 273; p. 123.
Rail-chair. W. D. Scott. No. 1,336,099; Apr. 6; v. 273; p. 75.
Rail-joint. G. W. Probst. No. 1,335,751; Apr. 6; v. 273; p. 9.
Railway signal system. M. W. Reedy. No. 1,335,919; Apr. 6; v. 273; p. 41.
Railway-switch. J. Wilczynski. No. 1,336,114; Apr. 6; v. 273; p. 78.
Railway-switch stand. C. M. Carr. No. 1,336,195; Apr. 6; v. 273; p. 93.
Ranges, Kerosene-burner for. J. W. Starr. No. 1,336,103; Apr. 6; v. 273; p. 76.
Razor-blade protector, Safety-. W. A. Sprinkell. No. 1,335,863; Apr. 6; v. 273; p. 30.
Razors, Water-carrying attachment for. J. F. Kaylor. No. 1,335,840; Apr. 6; v. 273; p. 25.
Recorder: *See*—
Water stage and discharge recorder.
Reflectors, mirrors, and other metal articles having deflecting-surfaces, Manufacture of metal. T. Hancock. No. 1,336,224; Apr. 6; v. 273; p. 98.
Register. G. W. Druliner. No. 1,336,210; Apr. 6; v. 273; p. 96.
Regulator: *See*—
Pressure-regulator. Temperature-regulator.
Relay. J. Erickson. (Reissue.) No. 14,834; Apr. 6; v. 273; p. 133.
Resilient wheel. N. Ratchford. No. 1,335,152; Apr. 6; v. 273; p. 9.
Resilient wheel. J. M. Woods. No. 1,336,060; Apr. 6; v. 273; p. 67.
Rim, Separable. O. Abbadini. No. 1,335,778; Apr. 6; v. 273; p. 15.
Road-indicator. B. A. Wilmot. No. 1,336,268; Apr. 6; v. 273; p. 106.
Rodent-trap, Automatic. N. Drag. No. 1,335,882; Apr. 6; v. 273; p. 33.
Roll-driving connection. J. Withers and H. G. O'Brien. No. 1,336,177; Apr. 6; v. 273; p. 90.
Roof for buildings. R. Wright. No. 1,336,118; Apr. 6; v. 273; p. 79.
Roofing. T. M. Scarff. No. 1,335,756; Apr. 6; v. 273; p. 10.
Rubber, Reclaiming. D. F. Twiss. No. 1,335,926; Apr. 6; v. 273; p. 42.
Rust-preventing composition. C. Schmid. No. 1,335,757; Apr. 6; v. 273; p. 10.
Safe or cabinet, Heat-resisting. R. H. Dick and C. F. Wolters. No. 1,336,347; Apr. 6; v. 273; p. 121.
Sailboat. J. H. Hart. No. 1,336,226; Apr. 6; v. 273; p. 98.
Sampling device. H. E. McCoy and F. J. Tarr. No. 1,336,250; Apr. 6; v. 273; p. 103.
Sash-lock. E. Larson. No. 1,336,242; Apr. 6; v. 273; p. 102.
Saw-blade. C. H. Driver. No. 1,336,209; Apr. 6; v. 273; p. 95.
Saw-gummer. J. Miles. No. 1,336,042; Apr. 6; v. 273; p. 64.
Sawing-machine. J. H. McPartland. No. 1,336,365; Apr. 6; v. 273; p. 125.
Sawing-machine. A. H. Rumple. No. 1,335,798; Apr. 6; v. 273; p. 18.
Scaffold. W. D. Kelly. No. 1,336,141; Apr. 6; v. 273; p. 83.
Scaffold, Window-. J. H. Cook. No. 1,336,283; Apr. 6; v. 273; p. 109.
Scale, Registering weighing-. H. Hathaway. No. 1,336,351; Apr. 6; v. 273; p. 122.
Screen: *See*—
Porthole-screen. Window-screen.
Well-screen.
Screen attachment, Bolter-. J. M. Kennedy. No. 1,336,300; Apr. 6; v. 273; p. 112.
Screw-thread gage. A. Bechler. No. 1,336,189; Apr. 6; v. 273; p. 92.
Screw-threads, Cutter for milling. G. G. M. Hardingham. No. 1,335,892; Apr. 6; v. 273; p. 35.
Sealing device, Vacuum. H. Duffy. No. 1,336,211; Apr. 6; v. 273; p. 96.
Seat: *See*—
Car-seat. Infant-seat.
Seat structure. G. X. Schneider. No. 1,336,097; Apr. 6; v. 273; p. 75.
Sewing-machine attachment. C. Bergeron. No. 1,336,340; Apr. 6; v. 273; p. 120.
Sewing machine, Button-. J. W. Darley, Jr. No. 1,336,346; Apr. 6; v. 273; p. 121.
Shade and curtain holder, Combination. M. and L. Roth. No. 1,336,051; Apr. 6; v. 273; p. 65.
Shade, Porch-. C. W. Warren. No. 1,336,325; Apr. 6; v. 273; p. 117.
Shaker-operating-mechanism. A. L. Steere. No. 1,336,322; Apr. 6; v. 273; p. 116.
Sharpener, Skate-. G. H. Berghman. No. 1,335,813; Apr. 6; v. 273; p. 21.
Shellac to sheet materials, Method and apparatus for applying. R. M. Briggs. (Reissue.) No. 14,833; Apr. 6; v. 273; p. 132.
Ship-propulsion installation. D. C. Black. No. 1,336,018; Apr. 6; v. 273; p. 60.
Ship-propulsion installation. D. C. Black. No. 1,336,019; Apr. 6; v. 273; p. 60.
Ship-propulsion installation. D. C. Black. No. 1,336,020; Apr. 6; v. 273; p. 60.
Ship the depth of sea-water, System of electrically indicating on board. Y. Kawakita. No. 1,335,738; Apr. 6; v. 273; p. 7.
Shock-absorbing spring. F. L. Spring. No. 1,336,167; Apr. 6; v. 273; p. 88.
Shoe. J. C. Jardine and J. Dickie. No. 1,336,355; Apr. 6; v. 273; p. 123.
Shoe-cleaner. R. J. Craig. No. 1,336,284; Apr. 6; v. 273; p. 109.
Shoe-fastening device. J. McDonald. No. 1,336,146; Apr. 6; v. 273; p. 84.
Sign and holder therefor. H. P. Andresen. No. 1,335,870; Apr. 6; v. 273; p. 31.
Signal: *See*—
Automobile danger-signal. Vehicle-signal.
Silo. T. K. Massie. No. 1,335,747; Apr. 6; v. 273; p. 8.
Siphon-starter. A. H. Marhenke. No. 1,336,310; Apr. 6; v. 273; p. 114.
Sleeve-grip. B. Beale. No. 1,336,339; Apr. 6; v. 273; p. 120.
Slug-lock. W. H. Horsman. No. 1,335,966; Apr. 6; v. 273; p. 50.
Snowplow. M. G. Berridge. No. 1,336,016; Apr. 6; v. 273; p. 59.
Soda-lime composition and preparing same. R. E. Wilson and C. P. McNeil. No. 1,335,949; Apr. 6; v. 273; p. 46.
Spade. C. E. Miller. No. 1,335,848; Apr. 6; v. 273; p. 27.
Spark-plug. W. A. Gwynn. No. 1,336,221; Apr. 6; v. 273; p. 97.
Spark-plug. W. O. Olson. No. 1,335,793; Apr. 6; v. 273; p. 17.
Spark-plug. O. C. Rohde. No. 1,335,797; Apr. 6; v. 273; p. 18.
Spark-plug. D. S. Short. No. 1,335,762; Apr. 6; v. 273; p. 11.
Spark-plug intensifier. J. A. De Vilbiss and H. L. Miller. No. 1,335,940; Apr. 6; v. 273; p. 44.
Spectacles, Temple for. G. H. Day. No. 1,335,823; Apr. 6; v. 273; p. 22.
Speedometer-magnet drive. O. B. Hjorth. No. 1,335,833; Apr. 6; v. 273; p. 24.
Spiral broaching-machine. H. E. Blanchard. No. 1,335,871; Apr. 6; v. 273; p. 31.
Spring. G. R. Nyquist. No. 1,336,314; Apr. 6; v. 273; p. 115.
Spring and shock absorber. R. Ball. No. 1,336,184; Apr. 6; v. 273; p. 91.
Spring-wheel. W. Gebhardt. No. 1,336,031; Apr. 6; v. 273; p. 62.
Squaring-clamp, Heavy. O. Bergstrom. No. 1,335,721; Apr. 6; v. 273; p. 4.
Stacker, Wheat-. H. F. Von Engeln. No. 1,336,005; Apr. 6; v. 273; p. 57.
Stamp, Numbering-. A. Marks. No. 1,335,746; Apr. 6; v. 273; p. 8.
Stand: *See*—
Plant-stand. Railway-switch stand.
Stand. N. De Long. No. 1,335,726; Apr. 6; v. 273; p. 4.

Stand and pedestal, Combined umbrella-. H. C. Stahl. No. 1,336,321; Apr. 6; v. 273; p. 116.
Station-indicator. W. C. Knox. No. 1,336,035; Apr. 6; v. 273; p. 63.
Station-indicator and advertising device. J. A. Greer. No. 1,336,032; Apr. 6; v. 273; p. 62.
Steam-superheater. P. S. Kirke. No. 1,335,974; Apr. 6; v. 273; p. 51.
Steel, Producing zirconium. H. C. Sicard. No. 1,335,992; Apr. 6; v. 273; p. 55.
Steel scrap, Utilizing. G. M. Muntz and C. M. Roubieu. No. 1,336,256; Apr. 6; v. 273; p. 104.
Steering-wheel, Locking. E. H. Vincent. No. 1,335,865; Apr. 6; v. 273; p. 30.
Stirrup-leather. W. L. F. Faithfull. No. 1,335,826; Apr. 6; v. 273; p. 23.
Stitching machine, Booklet-. A. H. Maynard. No. 1,336,251; Apr. 6; v. 273; p. 103.
Stove. J. G. Scott. No. 1,335,760; Apr. 6; v. 273; p. 11.
Stump-pulling machine. R. E. Balsly. No. 1,335,931; Apr. 6; v. 273; p. 43.
Submarines, Torpedo discharge for. J. Turcan. No. 1,336,110; Apr. 6; v. 273; p. 77.
Suction-cleaner. H. E. Hoover. No. 1,336,078; Apr. 6; v. 273; p. 71.
Support. J. Dotti. No. 1,335,881; Apr. 6; v. 273; p. 33.
Surgeon's plaster-knife. H. B. Phillips. No. 1,336,376; Apr. 6; v. 273; p. 127.
Sweeper. B. Frame. No. 1,336,349; Apr. 6; v. 273; p. 122.
Swing. C. D. Clipfell and G. Manikowske. No. 1,335,938; Apr. 6; v. 273; p. 44.
Swingletree. W. E. Jones. No. 1,335,971; Apr. 6; v. 273; p. 51.
Switch: *See*—
Electric switch. Motor-stopping switch.
Electric-light switch. Pedal-switch.
Electrical switch. Railway-switch.
Syringes, Sterilizer attachment for hypodermic. G. B. Young. No. 1,336,061; Apr. 6; v. 273; p. 67.
Table: *See*—
Concentrating-table. Oven rotary table.
Extension-table. Turntable.
Tack, Upholsterer's. S. M. Bliss. No. 1,336,273; Apr. 6; v. 273; p. 107.
Tag, Identification-. G. T. Spaulding. No. 1,335,995; Apr. 6; v. 273; p. 55.
Telephone, Recording-. J. F. Malthoner. No. 1,335,978; Apr. 6; v. 273; p. 52.
Telephone-support. W. I. Miller. No. 1,336,253; Apr. 6; v. 273; p. 104.
Telephone system. C. W. Keckler. No. 1,335,739; Apr. 6; v. 273; p. 7.
Telephone system. F. Schoenwolf. No. 1,336,098; Apr. 6; v. 273; p. 75.
Temperature-regulator. V. F. Davis. No. 1,336,072; Apr. 6; v. 273; p. 69.
Tennis-rackets, Protecting-holder for. A. F. Schenkelberger. No. 1,336,092; Apr. 6; v. 273; p. 73.
Testing-machine. W. J. Francke. No. 1,335,887; Apr. 6; v. 273; p. 34.
Thermo-insulation material and producing same. T. B. Munroe. No. 1,335,969; Apr. 6; v. 273; p. 39.
Ticket-taker, Mechanical. W. J. Harvie. No. 1,335,963; Apr. 6; v. 273; p. 49.
Timer attachment. N. Isachson. No. 1,336,296; Apr. 6; v. 273; p. 112.
Tire. A. M. Poynter. No. 1,335,916; Apr. 6; v. 273; p. 40.
Tire, Automobile-. L. Hofmeister. No. 1,336,139; Apr. 6; v. 273; p. 82.
Tire-chain. R. E. Muffly. No. 1,336,369; Apr. 6; v. 273; p. 126.
Tire-chain fastener. Y. Shimizu. No. 1,336,383; Apr. 6; v. 273; p. 128.
Tire, Pneumatic. E. G. Fido. No. 1,336,348; Apr. 6; v. 273; p. 121.
Tire-protector. R. T. Baker. No. 1,336,271; Apr. 6; v. 273; p. 107.
Tire, Resilient. F. C. Cave. No. 1,335,820; Apr. 6; v. 273; p. 22.
Tire valves, Dust-cap for protecting automobile-. J. Shaw. No. 1,335,861; Apr. 6; v. 273; p. 29.
Tire wrapping and unwrapping apparatus. C. Ziegler. No. 1,336,328; Apr. 6; v. 273; p. 118.
Tire wrapping and unwrapping apparatus. C. Ziegler. No. 1,336,329; Apr. 6; v. 273; p. 118.
Tires, Antiskidding-armor for truck-. F. McLaughlin. No. 1,336,363; Apr. 6; v. 273; p. 124.
Tires, Apparatus and method for building pneumatic. B. Darrow. No. 1,335,879; Apr. 6; v. 273; p. 33.
Tires, Inner tube for pneumatic. J. J. Voorhees, Jr. No. 1,336,173; Apr. 6; v. 273; p. 89.
Tobacco-pipe. J. W. Ivory. No. 1,336,233; Apr. 6; v. 273; p. 100.
Tobacco-pipe. L. Suedmeyer. No. 1,336,393; Apr. 6; v. 273; p. 130.
Tobacco tin or box. J. M. Heasley. No. 1,336,228; Apr. 6; v. 273; p. 99.
Toffee, Machine for breaking up. H. R. H. Clayton and O. J. Rose. No. 1,335,937; Apr. 6; v. 273; p. 44.
Toilet box. A. Garbeil. No. 1,336,216; Apr. 6; v. 273; p. 97.
Tool, Calking-. G. H. Hamm. No. 1,336,295; Apr. 6; v. 273; p. 111.
Tool head and handle construction. J. T. F. Bantjes. No. 1,336,185; Apr. 6; v. 273; p. 91.
Tool-holder. L. Q. Presby. No. 1,336,155; Apr. 6; v. 273; p. 85.
Tool-holder, Pocket. H. L. Kranz. No. 1,336,083; Apr. 6; v. 273; p. 72.
Tool, Rim-. P. R. Peterson. No. 1,335,795; Apr. 6; v. 273; p. 17.
Tool, Shoe-finishing. G. J. Julian. No. 1,335,786; Apr. 6; v. 273; p. 16.
Tools, Support for pneumatic. W. Walker. No. 1,335,807; Apr. 6; v. 273; p. 20.
Tooth and backing, Anterior. F. Z. Hanscom. No. 1,335,734; Apr. 6; v. 273; p. 6.
Tooth, Artificial. W. Arkin. No. 1,335,717; Apr. 6; v. 273; p. 3.
Tooth-polishing device. W. L. Ellerbeck. No. 1,335,825; Apr. 6; v. 273; p. 23.
Toothbrush, Fountain-. J. A. Sargery and O. Dupont. No. 1,336,390; Apr. 6; v. 273; p. 130.
Top, Folding. M. Buch. No. 1,336,022; Apr. 6; v. 273; p. 60.
Toy. C. W. Oberreich. No. 1,336,374; Apr. 6; v. 273; p. 127.
Toy boat. H. T. and E. J. Kingsbury. No. 1,335,900; Apr. 6; v. 273; p. 37.
Toy chime. R. G. Reid. No. 1,335,855; Apr. 6; v. 273; p. 28.
Tractor. W. Christie. No. 1,336,130; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. No. 1,336,131; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. No. 1,336,133; Apr. 6; v. 273; p. 81.
Tractor, Motor-. W. Guthrie. No. 1,335,732; Apr. 6; v. 273; p. 5.
Tractor-wheel. E. L. Demorest. No. 1,336,074; Apr. 6; v. 273; p. 70.
Transformer-mounting. C. H. Thordarson. No. 1,335,803; Apr. 6; v. 273; p. 19.
Trap: *See*—
Fish-trap. Rodent-trap.
Insect-trap.
Trolley. E. S. Combs. No. 1,336,199; Apr. 6; v. 273; p. 94.
Trousers-support. H. G. Ainsworth. No. 1,335,927; Apr. 6; v. 273; p. 42.
Truck-dumping mechanism. A. C. Settlage. No. 1,336,163; Apr. 6; v. 273; p. 87.
Truck mechanism, Tractor. W. Turnbull. No. 1,336,387; Apr. 6; v. 273; p. 129.
Truck, Railway-car. R. A. McClure and W. W. Boulton. No. 1,336,361; Apr. 6; v. 273; p. 124.
Trucks, Detachable handle for. W. C. Hecht. No. 1,336,033; Apr. 6; v. 273; p. 63.
Turbine plant, Steam or gas. O. A. Wiberg. No. 1,335,775; Apr. 6; v. 273; p. 14.
Tunneling-machine. L. W. Campbell. No. 1,335,723; Apr. 6; v. 273; p. 4.
Turntable. R. A. McClure and W. W. Boulton. No. 1,336,362; Apr. 6; v. 273; p. 124.
Turntable-jack, Automobile. W. J. La Grange. No. 1,336,037; Apr. 6; v. 273; p. 63.
Typewriting-machine. W. A. Dobson. No. 1,335,956; Apr. 6; v. 273; p. 48.
Typewriting-machine. J. E. O'Connor. No. 1,336,151; Apr. 6; v. 273; p. 85.
Typewriting-machine. A. W. Smith. No. 1,335,993; Apr. 6; v. 273; p. 55.
Umbrella-tip. S. I. Goldstein. No. 1,336,218; Apr. 6; v. 273; p. 97.
Umbrella-tip. S. I. Goldstein. No. 1,336,219; Apr. 6; v. 273; p. 97.
Utensil-guard. G. J. Sebald. No. 1,335,761; Apr. 6; v. 273; p. 11.
Universal joint. T. J. Kehoe. No. 1,335,740; Apr. 6; v. 273; p. 7.
Universal joint. E. G. Orbom. No. 1,335,913; Apr. 6; v. 273; p. 40.
Valve attachment, Engine. R. H. Kessler. No. 1,336,237; Apr. 6; v. 273; p. 101.
Valve, Closet flush-. E. G. Stoltz. No. 1,335,763; Apr. 6; v. 273; p. 11.
Valve control and releasing device. R. F. Landis. No. 1,336,084; Apr. 6; v. 273; p. 72.
Valve-gear, Reversing. W. E. Brown. No. 1,336,344; Apr. 6; v. 273; p. 121.
Valve-grinder. L. Merritt. No. 1,335,979; Apr. 6; v. 273; p. 52.
Valve-lifter. J. Corsi. No. 1,336,202; Apr. 6; v. 273; p. 94.
Valve, Piston or piston-. R. Allen. No. 1,335,951; Apr. 6; v. 273; p. 46.
Valve-stems, Valve for liner-tube. V. A. Leach. No. 1,335,976; Apr. 6; v. 273; p. 52.
Vapor mixtures, Treating gas-. W. E. Lummus. No. 1,336,360; Apr. 6; v. 273; p. 124.
Vehicle. J. E. Shearer. No. 1,336,100; Apr. 6; v. 273; p. 75.
Vehicle-jack. J. M. Roberts. No. 1,335,858; Apr. 6; v. 273; p. 29.
Vehicle lifter or jack. M. E. Hughes. No. 1,335,969; Apr. 6; v. 273; p. 50.
Vehicle, Motor-. E. H. Belden. No. 1,335,720; Apr. 6; v. 273; p. 3.

Vehicle, Motor-. C. R. Short. No. 1,335,989; Apr. 6; v. 273; p. 54.
Vehicle, Motor-. F. A. Whitten. No. 1,336,008; Apr. 6; v. 273; p. 58.
Vehicle-signal. P. V. Tamietti. No. 1,336,106; Apr. 6; v. 273; p. 76.
Vehicle-wheel. G. W. Dague. No. 1,335,939; Apr. 6; v. 273; p. 44.
Vehicle wheel, Motor-. E. K. Baker. No. 1,336,335; Apr. 6; v. 273; p. 119.
Vehicles, Muffler attachment for motor-. W. F. Hudson. No. 1,336,354; Apr. 6; v. 273; p. 123.
Vehicle, Rear-axle differential for power-driven. J. E. Thomson. No. 1,336,107; Apr. 6; v. 273; p. 76.
Vehicles, Semiwood wheel for motor-. E. K. Baker. No. 1,336,336; Apr. 6; v. 273; p. 119.
Vehicles, Semiwood wheel for motor-. E. K. Baker. No. 1,336,338; Apr. 6; v. 273; p. 119.
Vehicles, Tire-carrying wheel for motor-. E. K. Baker. No. 1,336,337; Apr. 6; v. 273; p. 119.
Vehicles, Turning mechanism for motor-. J. Riviere. No. 1,335,856; Apr. 6; v. 273; p. 28.
Vending-machine. C. F. Richardson. No. 1,336,389; Apr. 6; v. 273; p. 129.
Ventilating means. S. A. Wellman. No. 1,335,948; Apr. 6; v. 273; p. 46.
Ventilator: *See*—
Window-ventilator.
Vessel, Submarine. G. Dorffel. No. 1,336,287; Apr. 6; v. 273; p. 110.
Vest. E. Calkins. No. 1,336,279; Apr. 6; v. 273; p. 108.
Vial-machine. H. F. Hagemeyer. No. 1,335,733; Apr. 6; v. 273; p. 6.
Vise attachment. P. F. O'Shaughnessy. No. 1,336,087; Apr. 6; v. 273; p. 72.
Vulcanizer. A. A. Dorsey. No. 1,335,783; Apr. 6; v. 273; p. 16.
Vulcanizer. W. A. Gwynn. No. 1,336,220; Apr. 6; v. 273; p. 97.
Wall-board size. B. W. Sidwell. No. 1,336,055; Apr. 6; v. 273; p. 66.
Wall structure. G. P. Youmans. No. 1,336,179; Apr. 6; v. 273; p. 90.
Wardrobe, Dust-proof and moth-proof. J. Rockett. No. 1,335,920; Apr. 6; v. 273; p. 41.
Washer: *See*—
Lock-washer.
Washing machine, Dish-. G. H. Myrick. No. 1,335,853; Apr. 6; v. 273; p. 28.
Washing-machines, Gearing for. G. More. No. 1,336,086; Apr. 6; v. 273; p. 72.
Washing-machines, Operating device for. D. D. Rullman. No. 1,335,754; Apr. 6; v. 273; p. 10.
Water-gage. E. Macneir. No. 1,335,904; Apr. 6; v. 273; p. 38.
Water stage and discharge recorder. E. Schaub. No. 1,336,090; Apr. 6; v. 273; p. 73.
Water-supply apparatus, Carbonated-. L. Caul. No. 1,335,874; Apr. 6; v. 273; p. 32.
Welding apparatus. W. J. Buckley. No. 1,335,873; Apr. 6; v. 273; p. 31.
Welding apparatus, Autogenous-. A. Saulze. No. 1,335,922; Apr. 6; v. 273; p. 41.
Welding, Electrical-arc. J. Churchward. No. 1,335,875; Apr. 6; v. 273; p. 32.
Well-screen. L. F. Layne. No. 1,335,975; Apr. 6; v. 273; p. 51.
Wells, Device for taking samples from. R. D. Dodds. No. 1,335,880; Apr. 6; v. 273; p. 33.
Wheel: *See*—
Car-wheel.
Metal wheel.
Non-skid wheel.
Resilient wheel.
Spring-wheel.
Steering-wheel.
Tractor-wheel.
Vehicle-wheel.
Wheel filler unit, Laminated. M. W. Mix. No. 1,336,254; Apr. 6; v. 273; p. 104.
Wheels, Producing metal. J. A. Anglada. No. 1,336,332; Apr. 6; v. 273; p. 118.
Wheels, Producing. J. A. Anglada. No. 1,336,333; Apr. 6; v. 273; p. 119.
Wind instruments, Key mechanism for wood. A. Loomis. No. 1,336,359; Apr. 6; v. 273; p. 124.
Winding mechanism, Film-. R. Kroedel. No. 1,335,742; Apr. 6; v. 273; p. 7.
Window, Pocket-. E. H. Lunken. No. 1,336,145; Apr. 6; v. 273; p. 84.
Window-rattling stop. A. S. Peterson. No. 1,336,045; Apr. 6; v. 273; p. 65.
Window-screen, Adjustable. J. A. S. Simone. No. 1,336,101; Apr. 6; v. 273; p. 75.
Window-stop. C. O. Bloomquist. No. 1,336,274; Apr. 6; v. 273; p. 107.
Window-ventilator, Automatic. V. M. Allen. No. 1,335,929; Apr. 6; v. 273; p. 42.
Wire fabric. W. J. Pine. No. 1,336,154; Apr. 6; v. 273; p. 85.
Wire-fence shield. M. L. Davis. No. 1,336,205; Apr. 6; v. 273; p. 95.
Wire-twisting machine. R. J. Rice. No. 1,336,159; Apr. 6; v. 273; p. 86.
Work-holder. C. Hoddle. No. 1,336,229; Apr. 6; v. 273; p. 99.
Worm-drive. G. Dorffel. No. 1,336,286; Apr. 6; v. 273; p. 110.
Wringer attachment. L. F. Doellinger. No. 1,335,957; Apr. 6; v. 273; p. 48.
Yarn-speck remover. W. F. Moon. No. 1,336,148; Apr. 6; v. 273; p. 84.
Zinc solutions, Purification of. H. L. Sulman and S. Field. No. 1,336,386; Apr. 6; v. 273; p. 129.

ALPHABETICAL LIST OF DESIGNS.

Brush, Eyebrow-. J. A. Campbell. No. 54,815; Apr. 6; v. 273; p. 135.
Lace. E. A. Davis. No. 54,816; Apr. 6; v. 273; p. 135.
Lace. W. K. Kallman. Nos. 54,817–20; Apr. 6; v. 273; pp. 135–6.
Lace. F. Meyer. Nos. 54,821–2; Apr. 6; v. 273; p. 136.

ALPHABETICAL LIST OF TRADE-MARKS.

Automobiles, motor-trucks, &c. Southern Motor Manufacturing Association. No. 130,114; Apr. 6; v. 273; p. 181.
Bags, Coal-. Dafoe-Eustice Company. No. 130,057; Apr. 6; v. 273; p. 180.
Bandage, Catamenial. G. C. Levy. No. 130,086; Apr. 6; v. 273; p. 180.
Belts, aprons, and gum-tissue, Sanitary. Omo Mfg. Co. Nos. 130,097–8; Apr. 6; v. 273; p. 181.
Beverage and syrup for making same, Non-alcoholic. Brainol Manufacturing Co. No. 130,043; Apr. 6; v. 273; p. 179.
Beverage, Non-alcoholic maltless. E. H. Campbell. No. 130,357; Apr. 6; v. 273; p. 179.
Billiard-balls. Brunswick-Balke-Collender Company. No. 130,044; Apr. 6; v. 273; p. 179.
Bridges, telegraph and telephone poles and parts, &c., Metal. American Steel Export Company. No. 130,028; Apr. 6; v. 273; p. 179.
Brooms. Pioneer Broom Company. No. 130,103; Apr. 6; v. 273; p. 181.
Brooms, Corn. H. F. Cook. No. 130,054; Apr. 6; v. 273; p. 180.
Brushes, Paint and varnish. United Brush Manufactories. No. 130,131; Apr. 6; v. 273; p. 182.
Brushes, Shaving-. Simmons Hardware Company. No. 130,110; Apr. 6; v. 273; p. 181.
Buckles. Stanley Works. No. 130,117; Apr. 6; v. 273; p. 181.
Bulbs, Lily-. T. Outerbridge. No. 130,100; Apr. 6; v. 273; p. 181.
Candles. Eye Brand Confectionery. No. 130,064; Apr. 6; v. 273; p. 180.
Candles. Southern Candy Company. No. 130,113; Apr. 6; v. 273; p. 181.
Canned condensed milk. Consolidated Creameries. No. 130,052; Apr. 6; v. 273; p. 179.
Cars, Railway hand-. Buda Company. No. 130,045; Apr. 6; v. 273; p. 179.
Chains and swivels, Neck and watch. M. S. Rodenberg Co. No. 130,105; Apr. 6; v. 273; p. 181.
Chimneys, Lamp-. Krenning-Schlapp Grocer Company. No. 130,082; Apr. 6; v. 273; p. 180.
Cigarette makers and tubes, Portable. Waldes & Co. No. 130,134; Apr. 6; v. 273; p. 182.
Cigarettes. Hills Brothers Company. No. 130,072; Apr. 6; v. 273; p. 180.
Cigarettes, cigars, &c. American Tobacco Company. No. 130,029; Apr. 6; v. 273; p. 179.
Cigarettes, cigars, tobacco. Poland Export Corporation. No. 130,104; Apr. 6; v. 273; p. 181.
Cigarettes, tobacco. American Tobacco Company. No. 130,035; Apr. 6; v. 273; p. 179.
Cigars. Havana Commercial Company. No. 130,070; Apr. 6; v. 273; p. 180.
Cigars. V. Levor. No. 130,085; Apr. 6; v. 273; p. 180.
Cigars and cigarettes. W. Werner. No. 130,136; Apr. 6; v. 273; p. 182.
Cigars, cigarettes, and tobacco. F. G. Gilbert. No. 130,065; Apr. 6; v. 273; p. 180.
Cigars, cigarettes, and tobacco. R. J. Seidenberg Co. No. 130,109; Apr. 6; v. 273; p. 181.

Cleaning compound. J. J. Meyer. No. 130,090; Apr. 6; v. 273; p. 181.
Clocks. De Luxe Clock & Mfg. Co. No. 130,058; Apr. 6; v. 273; p. 180.
Closets, Chemical. Standard Steel Corp. No. 130,116; Apr. 6; v. 273; p. 181.
Confectionery. Tri-City Sales Company. No. 130,129; Apr. 6; v. 273; p. 182.
Cotton, silk, and wool piece goods. China, Japan & South America Trading Co. No. 130,051; Apr. 6; v. 273; p. 179.
Cotton, surgical gauze, &c., Absorbent. Hygienic Fibre Company. No. 130,074; Apr. 6; v. 273; p. 180.
Cotton-waste. Northern Waste Co. No. 130,094; Apr. 6; v. 273; p. 181.
Dental inlays and bridgework, Alloy for metal for. M. F. Patterson Dental Supply Company. No. 130,095; Apr. 6; v. 273; p. 181.
Dolls. S. Adler. No. 130,038; Apr. 6; v. 273; p. 179.
Dolls. J. M. Lockwood, Jr. No. 130,089; Apr. 6; v. 273; p. 181.
Dolls and toy animals. U. S. Toy & Novelty Co. No. 130,132; Apr. 6; v. 273; p. 182.
Electrotherapeutic apparatus for generating high-frequency currents. Contra-Pole Electric Company. No. 130,053; Apr. 6; v. 273; p. 180.
Eyebrow-brushes. I. A. Campbell. No. 130,047; Apr. 6; v. 273; p. 179.
Flour, Wheat-. J. F. Lennon. No. 130,084; Apr. 6; v. 273; p. 180.
Furniture. Chicago Hardware Foundry Company. No. 130,049; Apr. 6; v. 273; p. 179.
Game. W. Fuld. No. 130,142; Apr. 6; v. 273; p. 182.
Game. C. H. Hatheway. No. 130,069; Apr. 6; v. 273; p. 180.
Game. Irvin-Smith Company. No. 130,101; Apr. 6; v. 273; p. 181.
Gold alloy for dental clasps, &c. Baker and Company. No. 130,039; Apr. 6; v. 273; p. 179.
Gold for dental shells and plates, White. Baker and Company. No. 130,040; Apr. 6; v. 273; p. 179.
Hammocks. John Curtin Corp. No. 130,056; Apr. 6; v. 273; p. 180.
Horse and mule shoes. Phoenix Horse Shoe Co. No. 130,102; Apr. 6; v. 273; p. 181.
Jar-caps. American Pure Food Process Co. No. 130,036; Apr. 6; v. 273; p. 179.
Leather for shoes. Castle Kid Co. No. 130,048; Apr. 6; v. 273; p. 179.
Leather, Imitation. Benjamin V. Harrison Co. No. 130,067; Apr. 6; v. 273; p. 180.
Leather, Sole-. Sears, Roebuck & Company. No. 130,108; Apr. 6; v. 273; p. 181.
Limestone, Pulverized. American Limestone Company. No. 130,027; Apr. 6; v. 273; p. 179.
Lounges and vehicle-seats. F. O. White. No. 130,138; Apr. 6; v. 273; p. 182.
Matches. Stromborg Export & Import Co. Nos. 130,121–8; Apr. 6; v. 273; p. 182.
Military insignia. Mount Royal Corporation. No. 130,093; Apr. 6; v. 273; p. 181.
Necklaces, Imitation-pearl. L. Heller & Son. No. 130,071; Apr. 6; v. 273; p. 180.
Package-binders and parts thereof. E. A. Rudin. No. 130,106; Apr. 6; v. 273; p. 181.
Paper. Chicago Paper Company. No. 130,050; Apr. 6; v. 273; p. 179.
Paper bags. J. Single. No. 130,112; Apr. 6; v. 273; p. 181.
Paper, Bond-. Western Newspaper Union. No. 130,137; Apr. 6; v. 273; p. 182.
Paper shot-shells. Winchester Repeating Arms Co. No. 130,140; Apr. 6; v. 273; p. 182.
Pearls and imitation pearls. W. B. Kellogg Co. No. 130,077; Apr. 6; v. 273; p. 180.
Phonograph-cabinets. Pianissimo Player Action Co. No. 130,096; Apr. 6; v. 273; p. 181.
Phonograph-records. Emerson Phonograph Company. No. 130,063; Apr. 6; v. 273; p. 180.
Phonographs and cabinets. Milwaukee Talking Machine Manufacturing Co. No. 130,091; Apr. 6; v. 273; p. 181.
Phonographs and records. T. H. De Few. No. 130,059; Apr. 6; v. 273; p. 180.
Pianos, piano-players, and organs. Story & Clark Piano Company. Nos. 130,119–20; Apr. 6; v. 273; p. 181.
Pocket-books. Beach Leather Company. No. 130,041; Apr. 6; v. 273; p. 179.
Poison foods. F. T. Kobayashi. No. 130,080; Apr. 6; v. 273; p. 180.
Pottery, Table-. Knowles, Taylor & Knowles Company. No. 130,079; Apr. 6; v. 273; p. 180.
Rings, brooches, &c. Abel Bros. & Co. No. 130,025; Apr. 6; v. 273; p. 179.
Rope. Tubbs Cordage Company. No. 130,130; Apr. 6; v. 273; p. 182.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 130,075; Apr. 6; v. 273; p. 180.
Rope, Manila. Whitlock Cordage Co. No. 130,130; Apr. 6; v. 273; p. 182.
Seeds, Field-. Hardin, Hamilton & Lewman. No. 130,066; Apr. 6; v. 273; p. 180.
Signals, Warning-. Stewart-Warner Speedometer Corporation. No. 130,118; Apr. 6; v. 273; p. 181.
Snap-fasteners and buttons. E. G. Khouri & Bro. No. 130,078; Apr. 6; v. 273; p. 180.
Soap. Howard Bros. Chemical Co. No. 130,073; Apr. 6; v. 273; p. 180.
Soap. Washer Maid Company. No. 130,135; Apr. 6; v. 273; p. 182.
Soaps. Agra Company. No. 130,024; Apr. 6; v. 273; p. 179.
Sponges and chamois. Schroeder & Tremayne. No. 130,107; Apr. 6; v. 273; p. 181.
Sprout and other fish hooks. S. Allcock & Co. No. 130,026; Apr. 6; v. 273; p. 179.
Stoves, Gas, oil, and coal burning. The Detroit Vapor Stove Company. No. 130,062; Apr. 6; v. 273; p. 180.
Talking-machines. Modernola Co. No. 130,092; Apr. 6; v. 273; p. 181.
Textiles. Derryvale Linen Company. Nos. 130,060–1; Apr. 6; v. 273; p. 180.
Thread and yarn. H. E. Locke & Company. No. 130,088; Apr. 6; v. 273; p. 180.
Tobacco. American Tobacco Company. No. 130,030; Apr. 6; v. 273; p. 179.
Tobacco. American Tobacco Company. No. 130,034; Apr. 6; v. 273; p. 179.
Tobacco and cigarettes. American Tobacco Co. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 130,087; Apr. 6; v. 273; p. 180.
Tobacco and cigarettes, Smoking. American Tobacco Company. No. 130,031; Apr. 6; v. 273; p. 179.
Tobacco, Plug. Larus & Brother Company. No. 130,083; Apr. 6; v. 273; p. 180.
Toilet preparations. A. Simonson. No. 130,111; Apr. 6; v. 273; p. 181.
Toys, Mechanical. Samuel Orkin Company. No. 130,099; Apr. 6; v. 273; p. 181.
Tractors. Southern Motor Manufacturing Association. No. 130,115; Apr. 6; v. 273; p. 181.
Trunks. Hartmann Trunk Co. No. 130,068; Apr. 6; v. 273; p. 180.
Vegetables, Fresh. Henry Kaelin & Son. No. 130,076; Apr. 6; v. 273; p. 180.
Washboards. Krenning-Schlapp Grocer Company. No. 130,081; Apr. 6; v. 273; p. 180.
Washing-machines. Blue Bird Manufacturing Company. No. 130,042; Apr. 6; v. 273; p. 174.
Washing machines, Laundry-. Voss Bros. Mfg. Co. No. 130,133; Apr. 6; v. 273; p. 182.
Washing-machines, Laundry power. Automatic Electric Washer Co. No. 130,037; Apr. 6; v. 273; p. 179.
Waterproofing-oils for leather. A. W. Zieseniss. No. 130,141; Apr. 6; v. 273; p. 182.

ALPHABETICAL LIST OF LABELS.

"Canned Food—the Miracle on Your Table." (For Canned Goods.) National Canners Association. No. 21,774; Apr. 6; v. 273; p. 183.
"Cherry-Tang." (For Cherry-Syrup.) C. A. Connor Ice Cream Company. No. 21,766; Apr. 6; v. 273; p. 183.
"Grape-Tang." (For Grape-Syrup.) C. A. Connor Ice Cream Company. No. 21,767; Apr. 6; v. 273; p. 183.
"Latapep." (For a Medicinal Tonic.) E. M. Welch. No. 21,775; Apr. 6; v. 273; p. 183.
"La Tosca Sleepers." (For Children's Sleeping-Garments.) La Tosca Knitting Co. Nos. 21,769–70; Apr. 6; v. 273; p. 183.
"Mowhawk Knit Caps." (For Knitted Caps.) Mohawk Valley Cap Factory. No. 21,772; Apr. 6; v. 273; p. 183.
"Mohawk Sweaters." (For Sweaters.) Mohawk Valley Cap Factory. No. 21,773; Apr. 6; v. 273; p. 183.
"Orange-Tang." (For Orange-Syrup.) C. A. Connor Ice Cream Co. No. 21,768; Apr. 6; v. 273; p. 183.
"Workmanship, Quality, Service." (For Boots and Shoes.) Lynchburg Shoe Company. No. 21,771; Apr. 6; v. 273; p. 183.
"Wright's Mouse Killer, not a poison." (For a Non-Poisonous Powder for Killing Rats and Mice.) R. B. Wright. No. 21,776; Apr. 6; v. 273; p. 183.

ALPHABETICAL LIST OF PRINTS.

"Canned Food—The Miracle on Your Table." (For Canned Foods.) National Canners Association. No. 5,239; Apr. 6; v. 273; p. 183.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Abrasive devices for use on commutators of electric machines. J. W. Becker. No. 114,875; Apr. 6; v. 273; p. 140.
Acid and sulfoichthyolates, &c., Sulfoichthyolic. Società Industrie Chimiche Ittiolo. No. 115,666; Apr. 6; v. 273; p. 141.
Air-compressors, vacuum-pumps, hoists, rivets, &c. Ingersoll-Rand Company. No. 125,424; Apr. 6; v. 273; p. 165.
Antiseptic used as a gargle, mouth-wash, &c. Liquid. Saxo Chemical Co. No. 125,133; Apr. 6; v. 273; p. 162.
Apparel, Female. Bloom & Moses. No. 125,559; Apr. 6; v. 273; p. 166.
Apparel, Ladies', misses', and children's wearing-. J. A. Migel, Inc. No. 121,010; Apr. 6; v. 273; p. 146.
Automobile-body polish and cleaner. Park Chemical Company. No. 124,533; Apr. 6; v. 273; p. 158.
Automobiles and motor-trucks. The White Company. No. 114,791; Apr. 6; v. 273; p. 140.
Axles of vehicles, Adjustable supports for. L. L. Gilcrease. No. 123,434; Apr. 6; v. 273; p. 153.
Bags, pocket-books, and purses, Mesh-. H. Wiener. No. 125,355; Apr. 6; v. 273; p. 164.
Baking-powder. J. A. De Luca. No. 125,081; Apr. 6; v. 273; p. 162.
Bandage, Catamenial. S. D. Trumbo. No. 122,669; Apr. 6; v. 273; p. 150.
Bathing-suits, sweaters, and jerseys. The Campe Corporation. No. 125,491; Apr. 6; v. 273; p. 165.
Batteries and parts thereof, Storage. A. H. Lyons. No. 125,188; Apr. 6; v. 273; p. 163.
Batteries, Dry-cell. French Battery & Carbon Co. No. 126,794; Apr. 6; v. 273; p. 175.
Batteries, Electric. Stuart Products Corporation. No. 125,032; Apr. 6; v. 273; p. 161.
Batteries and parts thereof, Storage. A. H. Lyons. No. 127,482; Apr. 6; v. 273; p. 177.
Beating and mixing machines, Electrically-driven. Hobart Manufacturing Company. No. 126,517; Apr. 6; v. 273; p. 172.
Beer, birch-beer, ginger-ale, &c., Root-. The Krantz Products Company. No. 126,218; Apr. 6; v. 273; p. 171.
Beverage, Non-intoxicating cereal. Fairmont Beverage Co. No. 120,700; Apr. 6; v. 273; p. 145.
Beverage, Non-alcoholic non-intoxicating non-cereal maltless. J. G. Metropol. No. 123,652; Apr. 6; v. 273; p. 154.
Beverages and syrups for making same and colors and flavors in preparation thereof, Non-alcoholic non-cereal maltless. Burton Brothers. No. 121,654; Apr. 6; v. 273; p. 148.
Beverages, Powder convertible into. Modern Food Company. No. 124,183; Apr. 6; v. 273; p. 156.
Books, booklets, circulars, &c., Printed. C. F. Haanel. No. 123,246; Apr. 6; v. 273; p. 152.
Boots, shoes, and slippers, Leather. Nath'l Fisher & Co. No. 60,239; Apr. 6; v. 273; p. 137.
Boots, shoes, hats, and gloves. United Stay Company. No. 118,025; Apr. 6; v. 273; p. 142.
Bottle-washing machine. Geo. J. Meyer Manufacturing Co. No. 125,334; Apr. 6; v. 273; p. 164.
Box-cover wrappers, package and shipping labels and tags. L. A. Liebs Co. No. 126,041; Apr. 6; v. 273; p. 170.
Braids, shoe and corset laces, and galloons. W. H. Joslin. No. 114,784; Apr. 6; v. 273; p. 140.
Brassière combination-undergarments and undergarments for women. The Warner Brothers Company. No. 114,576; Apr. 6; v. 273; p. 139.
Brushes, Hat-. R. Swisky. No. 124,580; Apr. 6; v. 273; p. 159.
Brushes, Shaving-. Kampfe Bros. Nos. 124,410–11; Apr. 6; v. 273; pp. 157–8.
Cabinets, Kitchen-. Vincennes Furniture Mfg. Co. No. 123,506; Apr. 6; v. 273; p. 154.
Cake. F. G. Justice. No. 126,037; Apr. 6; v. 273; p. 170.
Candies. D. Schiff. No. 119,133; Apr. 6; v. 273; p. 143.
Candies. Hardie Bros. Co. No. 126,583; Apr. 6; v. 273; p. 173.
Candies. T. Backe. No. 123,610; Apr. 6; v. 273; p. 154.
Candy. Cascade Industries Company. No. 126,009; Apr. 6; v. 273; p. 170.
Candy. The C. S. Ball Candy Company. No. 122,203; Apr. 6; v. 273; p. 150.
Candy-bars. M. Williams. No. 116,226; Apr. 6; v. 273; p. 141.
Candy. C. A. Crane. Nos. 126,103–4; Apr. 6; v. 273; p. 170.
Candy. C. A. Crane. No. 126,274; Apr. 6; v. 273; p. 171.
Candy. C. A. Crane. No. 123,339; Apr. 6; v. 273; p. 152.
Canned apricots. Manteca Canning Co. No. 126,581; Apr. 6; v. 273; p. 173.
Canned fish—viz., canned salmon. A. Rupert Company. No. 126,062; Apr. 6; v. 273; p. 170.
Canned fruits. Manteca Packing Company. No. 126,536; Apr. 6; v. 273; p. 173.
Canned fruits and berries. Starr Fruits Products Co. No. 125,914; Apr. 6; v. 273; p. 169.
Canned fruits and vegetables. Manteca Canning Co. Nos. 126,529–30; Apr. 6; v. 273; p. 173.
Canned fruits, vegetables, and fish. China, Japan and South America Trading Co. No. 126,508; Apr. 6; v. 273; p. 172.
Canned fruits, vegetables and fish, mustard, &c. Walker-Matteson Company. No. 126,604; Apr. 6; v. 273; p. 174.
Canned peaches and apricots. United Canneries Company of California. No. 126,549; Apr. 6; v. 273; p. 173.
Canned salmon. D. Connor. No. 116,047; Apr. 6; v. 273; p. 141.
Canned sausage. Martin-Pemberton Company. No. 123,490; Apr. 6; v. 273; p. 154.
Canned tea. S. Nishikawa. No. 118,213; Apr. 6; v. 273; p. 142.
Canned vegetables. Croker Packing Co. No. 126,010; Apr. 6; v. 273; p. 170.
Canned vegetables. The Mount Airy Canning Co. No. 126,588; Apr. 6; v. 273; p. 174.
Cardboard, bristol-board, and coated paper, Coated. A. M. Collins Manufacturing Company. No. 119,937; Apr. 6; v. 273; p. 144.
Cards, Playing-. W. D. Roy. No. 122,085; Apr. 6; v. 273; p. 149.
Cement, Semi-plastic and adhesive. Celite Products Company. No. 125,418; Apr. 6; v. 273; p. 165.
Cheese-cutters, Computing. Computing Cheese Cutter Co. No. 126,271; Apr. 6; v. 273; p. 171.
Chocolate. Ideal Cocoa & Chocolate Co. No. 126,998; Apr. 6; v. 273; p. 175.
Chocolate. Vee Bee Chocolate Co. Nos. 126,663–4; Apr. 6; v. 273; p. 174.
Chocolate and confectionery machinery. National Equipment Company. No. 115,018; Apr. 6; v. 273; p. 140.
Chocolate bars, Milk-. Hooton Cocoa Company. No. 123,353; Apr. 6; v. 273; p. 153.
Chocolates. The Ohio Hotel Operating Company. No. 122,226; Apr. 6; v. 273; p. 150.
Chemical preparations containing formaldehyde, &c. Società Industrie Chimiche Ittiolo. No. 120,439; Apr. 6; v. 273; p. 144.
Cigarettes. Liggett & Myers Tobacco Company. No. 127,251; Apr. 6; v. 273; p. 176.
Cigarettes. Minnesota Tobacco Company. No. 121,536; Apr. 6; v. 273; p. 147.
Cigarettes. Halle-Perris Trading Corporation. No. 123,026; Apr. 6; v. 273; p. 151.
Cigarettes. Russian Tea Room & Art Shop. Nos. 125,340–2; Apr. 6; v. 273; p. 164.
Cigarettes, cigars, pipe and chewing tobacco. Gosselin Trading Corporation. No. 126,581; Apr. 6; v. 273; p. 173.
Cigars. The Kirschbaum Company. No. 123,858; Apr. 6; v. 273; p. 155.
Clips for fountain-pens and pencils, paper-clips, &c., Pocket-. Herbert Terry & Sons. No. 120,626; Apr. 6; v. 273; p. 145.
Clock and watch dials. T. Bargman. No. 117,003; Apr. 6; v. 273; p. 141.
Clock-dial. Mayclese. No. 123,444; Apr. 6; v. 273; p. 153.
Clocks. A. C. Dittrich. No. 125,834; Apr. 6; v. 273; p. 168.
Cloth piece goods. Johnston Dry Goods Co. No. 124,608; Apr. 6; v. 273; p. 159.
Clothing and wearing-apparel, Boys'. New York Boys' Shops. No. 124,727; Apr. 6; v. 273; p. 159.
Clothing, Mens' and children's. Walter M. Steppacher & Bro. No. 125,586; Apr. 6; v. 273; p. 166.
Cocoa and chocolate. The Stollwerck Chocolate Company. Nos. 121,264–5; Apr. 6; v. 273; pp. 146–7.
Conduits, Ignition-wire. E. V. Stuart. No. 125,809; Apr. 6; v. 273; p. 168.
Corn products, oatmeal, &c. H. Howson. No. 109,799; Apr. 6; v. 273; p. 138.
Cotton piece goods. Swift Mfg. Co. No. 126,948; Apr. 6; v. 273; p. 175.
Cream for the skin. Queisser & Co. No. 124,733; Apr. 6; v. 273; p. 160.

Cream, Toilet. B. E. Lapeyre. No. 114,451; Apr. 6; v. 273; p. 139.
Creams and paste for the teeth. Queisser & Co. No. 124,732; Apr. 6; v. 273; p. 159.
Deodorants. V. Vivaudou. No. 125,137; Apr. 6; v. 273; p. 163.
Dentrifrice and antiseptic deodorants. M. E. Sullivan. No. 125,729; Apr. 6; v. 273; p. 167.
Depilatories. Oneida Corporation. No. 124,809; Apr. 6; v. 273; p. 160.
Depilatory. Vail Brothers. No. 121,370; Apr. 6; v. 273; p. 147.
Digester-tankage, stock food. Standard By-Products Co. No. 118,745; Apr. 6; v. 273; p. 143.
Disinfectant, Pine-oil. The Sherwin-Williams Co. No. 125,864; Apr. 6; v. 273; p. 168.
Doll-buggies. C. M. Farrer. No. 124,338; Apr. 6; v. 273; p. 157.
Dresses. Langfelder & Shrier. No. 126,770; Apr. 6; v. 273; p. 175.
Dresses and costumes. Weisen & Goldstein. No. 125,521; Apr. 6; v. 273; p. 165.
Dresses and rompers, Girls' cotton wash-. C. M. Hunt. No. 125,228; Apr. 6; v. 273; p. 163.
Dresses and skirts. The Friedman-Haas Co. No. 127,684; Apr. 6; v. 273; p. 177.
Dresses, Women's, misses', and children's. R. H. Macy & Co. No. 126,815; Apr. 6; v. 273; p. 175.
Driers, filters, and separators, and parts thereof, Centrifugal. S. S. Hepworth Company. No. 121,204; Apr. 6; v. 273; p. 146.
Dry Lima beans. California Lima Bean Growers Association. No. 125,876; Apr. 6; v. 273; p. 169.
Electric air-heaters for starting internal-combustion engines. A. P. Nichols. No. 126,257; Apr. 6; v. 273; p. 171.
Electric-lighting fixtures. R. M. Beard. No. 120,949; Apr. 6; v. 273; p. 146.
Electric plants, Unitary. The Matthews Engineering Co. No. 124,486; Apr. 6; v. 273; p. 158.
Electrodes, High-potential-electricity-arrester. F. R. Parker. No. 124,577; Apr. 6; v. 273; p. 158.
Electric-lighting plants, electric-storage-battery locomotives, &c., Isolated. Allied Machinery Company of America. No. 124,247; Apr. 6; v. 273; p. 157.
Fabrics of silk and silk mixtures. Cheney Brothers. No. 123,108; Apr. 6; v. 273; p. 151.
Fasteners, Snap-. The Guarantee Specialty Manufacturing Company. No. 122,168; Apr. 6; v. 273; p. 150.
Felt for construction purpose, Prepared. J. H. Stone. No. 121,791; Apr. 6; v. 273; p. 148.
Flat-ware, Plated. Oneida Community Limited. No. 115,072; Apr. 6; v. 273; p. 140.
Flat-ware, Plated. Oneida Community. No. 123,138; Apr. 6; v. 273; p. 151.
Flavoring extracts, Food-. American Renolco Company. No. 126,756; Apr. 6; v. 273; p. 174.
Flavoring extracts, Food-. Wolf & Bird. No. 124,634; Apr. 6; v. 273; p. 159.
Flour, Wheat-. Clyde Milling & Elevator Co. No. 123,963; Apr. 6; v. 273; p. 155.
Flour, Wheat-. Lawrenceburg Roller Mills Co. No. 120,835; Apr. 6; v. 273; p. 145.
Flour, Wheat-. Lyon & Greenleaf Co. No. 124,525; Apr. 6; v. 273; p. 158.
Fluid the scent of which attracts animals and used as a bait, Chemically-compounded. Federal Fur & Wool Company. No. 125,882; Apr. 6; v. 273; p. 169.
Food-choppers, combination meat and food cutters, &c. Griswold Manufacturing Company. No. 124,717; Apr. 6; v. 273; p. 159.
Fruit and fresh vegetables. Atlantic Coast Distributors. No. 123,194; Apr. 6; v. 273; p. 152.
Fruits, Dried. J. B. Henry. No. 121,860; Apr. 6; v. 273; p. 149.
Fruits, Fresh. J. E. Bartlett & Sons. No. 125,941; Apr. 6; v. 273; p. 169.
Furniture, Nursery. M. Rice Company. No. 120,621; Apr. 6; v. 273; p. 145.
Fuses and cut-outs, Electric. Bussman Manufacturing Company. No. 127,538; Apr. 6; v. 273; p. 177.
Gear reducers, power-transmission machinery, &c., Spur-. W. A. Jones Foundry & Machine Co. No. 123,648; Apr. 6; v. 273; p. 154.
Germicide deodorizing and disinfectant dentifrice preparation. Southern Chemical Products Co. No. 125,197; Apr. 6; v. 273; p. 163.
Glass, Corning Glass Works. No. 125,077; Apr. 6; v. 273; p. 162.
Greases and oils. The Ohio Grease Company. No. 120,578; Apr. 6; v. 273; p. 145.
Hair-clippers, motors, and hair-driers, Electric. The Moore Electric Corporation. No. 124,309; Apr. 6; v. 273; p. 157.
Hair-tonic. R. E. Fisher & Sons. No. 124,557; Apr. 6; v. 273; p. 158.
Hair-tonic, dandruff-eradicator, and complexion-cream. A. R. Smith. No. 121,910; Apr. 6; v. 273; p. 149.
Hair-shampoo. The Edison Laboratories. No. 124,137; Apr. 6; v. 273; p. 156.
Ham, bacon, sausage, meat-loaf, &c., Fresh, dried, and canned. Oscar F. Mayer & Bro. No. 116,098; Apr. 6; v. 273; p. 141.
Hammers, riveters, drills, chucks, &c. Chicago Pneumatic Tool Company. No. 121,752; Apr. 6; v. 273; p. 148.
Hats, Ladies'. Engle and Zelmer. No. 123,572; Apr. 6; v. 273; p. 154.
Hats, Men's felt. Frank Schoble & Co. No. 120,263; Apr. 6; v. 273; p. 144.
Hats, Trimmed and untrimmed. Mayer & Goldsmith. No. 122,902; Apr. 6; v. 273; p. 151.
Hearing, Mechanical devices used as an aid to. E. B. Meyrowitz, Inc. No. 120,009; Apr. 6; v. 273; p. 144.
Heel-plates for rubber heels, and heel and toe-plates for boots and shoes. Winner Mfg. Co. No. 125,736; Apr. 6; v. 273; p. 167.
Hosiery. Dalton Hosiery Mills. No. 126,560; Apr. 6; v. 273; p. 173.
Hosiery and children's rompers. J. E. Baer. No. 126,446; Apr. 6; v. 273; p. 172.
Hosiery and knitted underwear for boys and young men, boys' vests, coats, suits, &c. Sears, Roebuck and Co. No. 126,598; Apr. 6; v. 273; p. 174.
Hosiery and underwear for men, women, and children. H. Fine. No. 127,907; Apr. 6; v. 273; p. 178.
Hosiery and underwear for men, women, and children. C. W. Taves Co. No. 127,944; Apr. 6; v. 273; p. 178.
Hosiery, Women's. Wayne Knitting Mills. No. 126,402; Apr. 6; v. 273; p. 172.
Ice-cream, including water-ice, &c. Smith & Clark Company. No. 112,270; Apr. 6; v. 273; p. 139.
Ink, Printing-. A. M. Collins Manufacturing Company. No. 119,935; Apr. 6; v. 273; p. 143.
Irrigation systems, and valves and parts of such systems, Lawn and garden. Hadden Automatic Sprinkler Company. No. 124,440; Apr. 6; v. 273; p. 158.
Insecticide. General Chemical Company. No. 125,052; Apr. 6; v. 273; p. 161.
Insecticide, Liquid. Gets 'Em Co. No. 125,109; Apr. 6; v. 273; p. 162.
Insecticides and fungicides. A. B. Ansbacher & Company. No. 120,737; Apr. 6; v. 273; p. 145.
Insulators made of porcelain, Electric. Taylor, Tunnicliff and Company. No. 125,763; Apr. 6; v. 273; p. 167.
Jam, preserves, jelly, and table-syrup, Pure fruit. W. H. Dyer Company. No. 122,691; Apr. 6; v. 273; p. 150.
Jewelry. Distinctive Jewelry Co. Nos. 124,515–16; Apr. 6; v. 273; p. 158.
Lacquer and varnishes. Providence Specialty Company. No. 100,558; Apr. 6; v. 273; p. 137.
Lamps, Electric incandescent. General Electric Company. No. 83,821; Apr. 6; v. 273; p. 137.
Lamps, Incandescent. Whitelite Electric Company. No. 123,411; Apr. 6; v. 273; p. 153.
Lamps, Incandescent. Whitelite Electric Company. No. 124,243; Apr. 6; v. 273; p. 157.
Laxative. Granolax Company. No. 125,086; Apr. 6; v. 273; p. 162.
Leather, Artificial or imitation. The Masland Duraleather Company. No. 126,735; Apr. 6; v. 273; p. 174.
Leather, finished and partly finished. The Ulmer Leather Company. No. 128,121; Apr. 6; v. 273; p. 178.
Liniment for swollen joints, rheumatism, headache, &c. N. G. Johnson. No. 125,332; Apr. 6; v. 273; p. 164.
Locks. Miller Lock Company. No. 125,961; Apr. 6; v. 273; p. 170.
Lotion, Skin-. N. Erber. No. 123,688; Apr. 6; v. 273; p. 155.
Lumber and timber. Wisconsin Lumber Company. No. 126,755; Apr. 6; v. 273; p. 174.
Machines and sadirons, Ironing and wringing. Blue Bird Manufacturing Company. No. 124,385; Apr. 6; v. 273; p. 157.
Machinery, Electrical. The Imperial Electric Co. No. 127,919; Apr. 6; v. 273; p. 178.
Mayonnaise. G. F. Von Holt. No. 126,265; Apr. 6; v. 273; p. 171.
Meats, Smoked, canned, and pickled. D. Crec. No. 115,138; Apr. 6; v. 273; p. 140.
Medicinal preparation used as a dentifrice. Brown's Tooth Powder Company. No. 125,362; Apr. 6; v. 273; p. 164.
Medicine for headache, rose-fever, sprains, &c. The Sentanel Remedies Company. No. 124,959; Apr. 6; v. 273; p. 161.
Metal, Babbitt. United American Metal Corporation. No. 126,400; Apr. 6; v. 273; p. 172.
Metal ingots, Non-ferrous. Eastern Brass and Ingot Corporation. No. 128,766; Apr. 6; v. 273; p. 178.
Metal, Non-ferrous. Bausch Machine Tool Company. No. 125,875; Apr. 6; v. 273; p. 169.
Milk, Condensed. W. E. Griffith. No. 127,413; Apr. 6; v. 273; p. 177.
Milk, Condensed and evaporated. The Burt Olney Canning Company. No. 114,554; Apr. 6; v. 273; p. 139.
Milling-cutters, reamers, twist-drills, and taps. E. G. Wrigley & Co. Nos. 119,992–3; Apr. 6; v. 273; p. 144.
Milk, Dry. The Dry Milk Company. No. 123,158; Apr. 6; v. 273; p. 151.
Millstones, Electrically-operated grinders for. R. G. Haskins Company. No. 127,054; Apr. 6; v. 273; p. 176.
Mouth-wash, Antiseptic. O. F. Louis. No. 125,786; Apr. 6; v. 273; p. 167.
Mouth-wash, tooth and sachet powder, smelling-salts, &c. L. Gawurin. No. 125,380; Apr. 6; v. 273; p. 165.

Music, Sheet-. Producer Music Company. No. 121,779; Apr. 6; v. 273; p. 148.
Musical-instrument pedals. Lyon & Healy. No. 126,330; Apr. 6; v. 273; p. 172.
Musical instruments, Stringed. J. A. Bolander. No. 107,715; Apr. 6; v. 273; p. 138.
Name-plates and instruction-plates, Blank. Handley Page Limited. No. 126,859; Apr. 6; v. 273; p. 175.
Neckties, cravats, mufflers, and collars. Rice-Stix Dry Goods Company. No. 126,595; Apr. 6; v. 273; p. 174.
Nut-bars, Candied. Northwestern Candy Company. No. 125,719; Apr. 6; v. 273; p. 166.
Oil for paint and varnish building, Basic. J. F. Glidden. No. 128,589; Apr. 6; v. 273; p. 178.
Oil, Lubricating-. F. P. Symonds. No. 125,545; Apr. 6; v. 273; p. 166.
Oil, Olive-. Maggioros & Rousos. No. 126,479; Apr. 6; v. 273; p. 172.
Oil, substitute for butter, Oleo-. The Standard Commercial Export and Finance Corporation. No. 123,226; Apr. 6; v. 273; p. 152.
Oils, Fuel-. Hercules Petroleum Company. No. 122,015; Apr. 6; v. 273; p. 149.
Oils of cotton-seed or the like for food purposes and chocolates. J. Weber. No. 125,269; Apr. 6; v. 273; p. 163.
Overalls. Rosenbaum Brothers. No. 123,367; Apr. 6; v. 273; p. 153.
Oysters, clams, lobsters, shrimp, crabs, and fish. Charles Noble, Jr., Company. No. 105,719; Apr. 6; v. 273; p. 138.
Oysters, shrimp, crabs, and fish, Fresh and canned. Charles Noble, Jr., Company. No. 100,967; Apr. 6; v. 273; p. 137.
Paints and shingle-stains. G. F. Johnston. No. 113,861; Apr. 6; v. 273; p. 139.
Paints, driers, enamel paints, wood-stains, &c. The Patterson-Sargent Company. No. 115,928; Apr. 6; v. 273; p. 141.
Paints, driers, enamels, wood-stains, &c. The Patterson-Sargent Company. No. 123,173; Apr. 6; v. 273; p. 152.
Paints, driers, wood-stains, &c. The Patterson-Sargent Company. No. 123,077; Apr. 6; v. 273; p. 151.
Paints, varnishes, floor-wax, &c., Paste. Colonial Works. No. 121,922; Apr. 6; v. 273; p. 149.
Pajamas, union-pajamas, sleeping and lounging garments, and night-shirts. M. Harris. No. 127,546; Apr. 6; v. 273; p. 177.
Paper bags. Gilson Bros. No. 124,138; Apr. 6; v. 273; p. 156.
Paper, Coated relief overlay-. A. M. Collins Manufacturing Company. No. 119,934; Apr. 6; v. 273; p. 143.
Paper cover for toilet-seats, Sanitary. J. I. Levy. No. 124,614; Apr. 6; v. 273; p. 159.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 121,744; Apr. 6; v. 273; p. 148.
Paper, Gray filter-. H. Reeve Angel & Co. No. 127,107; Apr. 6; v. 273; p. 176.
Paper, towels, &c., Printing, writing, box, and book-cover. The central Ohio Paper Company. No. 124,199; Apr. 6; v. 273; p. 157.
Paper, towels, &c., Printing, writing, box, and book-cover. The Central Ohio Paper Company. No. 124,202; Apr. 6; v. 273; p. 157.
Paper, Wedding, ledger, cover, book, and bond, &c. Strathmore Paper Company. Nos. 123,462–3; Apr. 6; v. 273; pp. 153–4.
Paper and mailing-envelops, Writing, printing, bond, and ledger. New York Oversea Co. No. 125,121; Apr. 6; v. 273; p. 162.
Papers, Writing and printing, and tablets. Osborn Paper Company. No. 125,854; Apr. 6; v. 273; p. 168.
Peanuts, Sugared. The Nut House. No. 125,009; Apr. 6; v. 273; p. 161.
Peanuts, Toasted. Charms Company. No. 126,847; Apr. 6; v. 273; p. 175.
Pen-points, Steel. The Turner & Harrison Pen Mfg. Co. No. 126,298; Apr. 6; v. 273; p. 172.
Perspiration-counteractor. R. W. Bridgman. No. 123,872; Apr .6; v. 273; p. 155.
Petroleum and petroleum products. C. E. Doty. No. 123,430; Apr. 6; v. 273; p. 153.
Petroleum, gasolene, kerosene, fuel-oils, &c. Johnson Oil Refining Company. No. 124,143; Apr. 6; v. 273; p. 156.
Petroleum jelly. Grand Union Tea Co. No. 125,837; Apr. 6; v. 273; p. 168.
Phonographs. O. Bachman. No. 127,417; Apr. 6; v. 273; p. 177.
Phonographs and talking-machines. A. Mannello. No. 125,398; Apr. 6; v. 273; p. 165.
Photographic film. Eastman Kodak Company. No. 126,310; Apr. 6; v. 273; p. 172.
Picture films, Moving-. C. E. Hallgren. No. 125,886; Apr. 6; v. 273; p. 169.
Picture films, Moving-. L. E. Davidson. No. 120,523; Apr. 6; v. 273; p. 144.
Picture films, Moving-. S. H. Hadley. No. 126,623; Apr. 6; v. 273; p. 174.
Picture or sheet mounting devices. A. W. Engel. No. 122,209; Apr. 6; v. 273; p. 150.
Picture-projection machines, &c., Motion-. United Theatre Equipment Corporation. No. 122,561; Apr. 6; v. 273; p. 150.
Pipes and splicings, Wooden. D. Eichenfeld. No. 121,804; Apr. 6; v. 273; p. 149.
Placket and glove fasteners, needles, hooks and eyes, buckles, &c. Waldes & Co. No. 121,071; Apr. 6; v. 273; p. 146.
Polish for floors, furniture woodwork, and automobile-bodies. The Standard Products Co. No. 127,339; Apr. 6; v. 273; p. 176.
Polish for painted, varnished, waxed, and similar surfaces. The W. T. Rawleigh Company. No. 124,010; Apr. 6; v. 273; p. 156.
Pomade for the scalp and hair. Jiffie-Straight Company. No. 125,113; Apr. 6; v. 273; p. 162.
Popcorn, shelled and unpopped. E. G. Pierce. No. 124,005; Apr. 6; v. 273; p. 155.
Potatoes, Partially cooked and prepared. Condensed Food Company. No. 94,786; Apr. 6; v. 273; p. 137.
Powder, Complexion-. The De Pree Chemical Company. No. 124,977; Apr. 6; v. 273; p. 161.
Powder, perfume, toilet water, &c., Face-. L. Gawurin. No. 125,381; Apr. 6; v. 273; p. 165.
Powder-puff. A. Giglio. No. 125,325; Apr. 6; v. 273; p. 163.
Powder, Whip-. Hirsch Brothers Co. No. 125,700; Apr. 6; v. 273; p. 166.
Preparation for making cake. Atmore & Son. No. 127,346; Apr. 6; v. 273; p. 176.
Preparation for the treatment of dandruff. Austinal Chemical Co. No. 125,873; Apr. 6; v. 273; p. 168.
Preparation for treatment of diphtheria, coughs, colds, &c. S. D. Vansickle Estate. No. 117,074; Apr. 6; v. 273; p. 142.
Preparation of salvelike consistency for the alleviation of colds, coughs, sore throat, &c. Dr. Clark's Chemical Laboratories. No. 125,831; Apr. 6; v. 273; p. 168.
Preparation to preserve and renew platens. Deter-Sol Sales Company. No. 124,750; Apr. 6; v. 273; p. 160.
Preparation used as a hair-brightener, shampoo, and to restore natural color to hair. E. Burnham. No. 125,596; Apr. 6; v. 273; p. 166.
Pumps for mine use, mine-hauls, and locomotives, Water-. Cherry Tree Machine Company. No. 127,081; Apr. 6; v. 273; p. 176.
Quinin ethyl carbonate. Takamine Laboratory. No. 125,812; Apr. 6; v. 273; p. 168.
Remedy for lung trouble. B. M. Desch. No. 118,647; Apr. 6; v. 273; p. 143.
Remedy, Pile. O. Wingate. No. 124,743; Apr. 6; v. 273; p. 160.
Rice wafers. Tee-O Mfg. Co. No. 121,493; Apr. 6; v. 273; p. 147.
Rifles, shotguns, pistols, &c., Military and sporting. The Remington Arms Union Metallic Cartridge Co. No. 123,169; Apr. 6; v. 273; p. 152.
Rock-drills. Ingersoll-Rand Company. No. 125,423; Apr. 6; v. 273; p. 165.
Roofing and shingles, Composition. Superior Builders Supply Co. No. 118,450½; Apr. 6; v. 273; p. 143.
Roofing in the form of plates and sheets, Zinc. American Zinc Products Company, The. No. 126,757; Apr. 6; v. 273; p. 175.
Running-boards, mats for automobile running-boards and floors, &c. The C. Spiro Mfg. Co. No. 120,393; Apr. 6; v. 273; p. 144.
Salve for use in the treatment of the scalp. A. Sims. No. 125,727; Apr. 6; v. 273; p. 167.
Sand-boxes, Knockdown. H. D. Tucker. No. 118,000; Apr. 6; v. 273; p. 142.
Saws and machine, cane, &c., knives. Sheffield Works, Inc. No. 114,590; Apr. 6; v. 273; p. 139.
Shirts, overalls, jumpers, pants, &c., Negligée, work and dress. Wise Bros. No. 126,404; Apr. 6; v. 273; p. 172.
Shoes and slippers, Children's, misses', and growing girls' leather. Howard-Hulme-Dittrich Shoe Co. No. 126,123; Apr. 6; v. 273; p. 171.
Shoes and slippers, Women's, misses', children's, infants', felt. George Borgfeldt & Co. No. 127,421; Apr. 6; v. 273; p. 177.
Shoes, Leather, rubber, and canvas. Mrs. A. R. King. No. 127,547; Apr. 6; v. 273; p. 177.
Silk piece goods. H. R. Mallinson & Co. No. 127,379; Apr. 6; v. 273; p. 176.
Silk, wool, linen, &c., piece goods. B. Férier. No. 123,845; Apr. 6; v. 273; p. 155.
Skirts. Mazzel Skirt Co. No. 125,792; Apr. 6; v. 273; p. 167.
Snap-fasteners. "Snaplok," Inc. No. 121,159; Apr. 6; v. 273; p. 146.
Soap, Yellow-laundry. The Federal Soap Company. No. 124,788; Apr. 6; v. 273; p. 160.
Soda-ash or anhydrous sodium carbonate. California Alkali Co. No. 125,878; Apr. 6; v. 273; p. 169.
Soda used for cleaning and washing, Neutral. California Alkali Co. No. 125,877; Apr. 6; v. 273; p. 169.
Sound-reproducing instruments, Phonographs. Emerson Piano Company. No. 125,655; Apr. 6; v. 273; p. 166.
Sounds, Instruments for producing comical imitative. B. Van Horn. No. 125,992; Apr. 6; v. 273; p. 170.
Spark-plugs. Rummell Manufacturing Works. No. 123,661; Apr. 6; v. 273; p. 155.
Sparking plugs for internal-combustion engines. Forward Sparking Plug Co. No. 124,681; Apr. 6; v. 273; p. 159.

Sprinklers, Automatic. R. W. Newton. No. 124,226; Apr. 6; v. 273; p. 157.
Steel, iron, &c., Wrought. Connecticut Electric Steel Co. No. 125,105; Apr. 6; v. 273; p. 162.
Suits, Boys'. Hessberg, Morris & Gunst. No. 124,938; Apr. 6; v. 273; p. 161.
Surgical dressing and cement. C. Dewitt Lukens Surgical Manufacturing Co. No. 125,320; Apr. 6; v. 273; p. 163.
Surgical dressing, Plastic. Saxo Chemical Co. No. 125,132; Apr. 6; v. 273; p. 162.
Sweaters, shawls, scarfs, hoods, and caps. Imperial Knitting Co. No. 125,464; Apr. 6; v. 273; p. 165.
Syrup and beverage made therefrom, Non-alcoholic maltless. Richardson Corporation. No. 127,329; Apr. 6; v. 273; p. 176.
Syrup for food. G. M. Allen. No. 126,503; Apr. 6; v. 273; p. 172.
Syrups, Corn and maltose. Young & Wile. No. 124,924; Apr. 6; v. 273; p. 161.
Tablets, Medicated. C. S. Mills. No. 125,335; Apr. 6; v. 273; p. 164.
Tablet, Medicinal. M. A. Loyer. No. 98,741; Apr. 6; v. 273; p. 137.
Tanks, Wooden. J. Armstrong. No. 119,059; Apr. 6; v. 273; p. 143.
Tea and rice. William S. Scull Company. No. 125,808; Apr. 6; v. 273; p. 167.
Tea, Herb. J. G. Sultanakl. No. 120,802; Apr. 6; v. 273; p. 145.
Textiles in the piece. C. A. Coleman Company. No. 122,973; Apr. 6; v. 273; p. 151.
Tile, brick, and artificial stone. Formby Petrinite Corporation. No. 127,586; Apr. 6; v. 273; p. 177.
Timepieces. F. W. Alter. Nos. 124,835–8; Apr. 6; v. 273; p. 160.
Tin, Pig-. Richards and Co. No. 126,196; Apr. 6; v. 273; p. 171.
Toilet-seats, Sanitary cover for. M. Fraser. No. 125,379; Apr. 6; v. 273; p. 165.
Tool-grinding machines. Luther Grinder Manufacturing Company. No. 114,700; Apr. 6; v. 273; p. 140.
Tooth-powders, pastes, and mouth-washes. J. N. Thibodeaux. No. 125,135; Apr. 6; v. 273; p. 163.
Trousers and suits, Men's and boys'. L. Potter. No. 124,804; Apr. 6; v. 273; p. 160.
Typewriter-ribbons, carbon-paper, and stencil-ink. C. E. Archbald. No. 111,295; Apr. 6; v. 273; p. 138.
Undergarments and clothing, Women's, misses', and children's. Franklin Simon & Co. No. 124,017; Apr. 6; v. 273; p. 156.
Underwear, Men's and boys'. W. D. Porter. No. 121,156; Apr. 6; v. 273; p. 146.
Underwear, Knitted. De Milo Distributing Co. No. 126,561; Apr. 6; v. 273; p. 173.
Underwear, night-robes, dresses, and blouses, Woman's and children's. M. E. Smith & Co. No. 127,840; Apr. 6; v. 273; p. 178.
Vacuum tube devices, parts and accessories therefor, Wireless Specialty Apparatus Company. No. 123,564; Apr. 6; v. 273; p. 154.
Valves, Automatic relief-. Dew Valve Co. No. 126,247; Apr. 6; v. 273; p. 171.
Varnishes for electric insulation. The Sterling Varnish Company. No. 120,975; Apr. 6; v. 273; p. 146.
Varnishes, shellacs, lacquers, and finishes. A. R. Haeuser Co. No. 117,231; Apr. 6; v. 273; p. 142.
Vegetables, Dehydrated. Twin Falls Dehydrating Co. No. 126,076; Apr. 6; v. 273; p. 170.
Washing machine, Clothes-. The Nineteen Hundred Washer Company. No. 124,185; Apr. 6; v. 273; p. 156.
Washing machines, wringers, and parts thereof, Laundry-. Win-Her Washer Company. No. 121,799; Apr. 6; v. 273; p. 148.
Watch and clock dials, Protective facings or coverings for. I. Florman. No. 121,929; Apr. 6; v. 273; p. 149.
Watchcases. Roy Watch Case Company. No. 126,138; Apr. 6; v. 273; p. 171.
Watches. Dubois Watch Case Company. No. 115,566; Apr. 6; v. 273; p. 141.
Watches. J. Bulova Company. Nos. 125,768–9; Apr. 6; v. 273; p. 167.
Watches. J. Bulova Company. No. 125,822; Apr. 6; v. 273; p. 168.
Watches. J. Bulova Company. No. 125,824; Apr. 6; v. 273; p. 168.
Watches. Knickerbocker Watch Co. Nos. 125,660–1; Apr. 6; v. 273; p. 166.
Watches. W. J. Bernard. No. 125,046; Apr. 6; v. 273; p. 161.
Watches, and parts thereof. Société Anonyme Les fils de L. Braunschweig Fabrique Election. No. 114,028; Apr. 6; v. 273; p. 139.
Wax, ceresin, japan wax, &c., Paraffin. Smith & Nichols, Incorporated. No. 111,225; Apr. 6; v. 273; p. 138.
Waxes for electrical insulating purposes. Smith & Nichols. No. 111,223; Apr. 6; v. 273; p. 138.
Weatherproof coats. W. O. Peake, Ltd. No. 122,024; Apr. 6; v. 273; p. 149.
Webbing in the piece. Hope Webbing Company. No. 117,140; Apr. 6; v. 273; p. 142.
Wiping and cleaning apparatus for automobile windshields, &c. Presto-Felt Mfg. Co. No. 123,825; Apr. 6; v. 273; p. 155.
Wire, Copper-nickel alloy. J. E. Dockendorff & Co. No. 121,572; Apr. 6; v. 273; p. 147.
Wire, Nickel-chromium-alloy. J. E. Dockendorff & Co. No. 121,568; Apr. 6; v. 273; p. 147.
Wire, Nickel-chromium-alloy. J. E. Dockendorff & Co. No. 121,570; Apr. 6; v. 273; p. 147.
Woolen piece goods. Pawcatuck Woolen Mills. No. 127,394; Apr. 6; v. 273; p. 176.
Worm and insect exterminator. W. Kea. No. 125,286; Apr. 6; v. 273; p. 163.
Worm-expeller, horse, cattle, and hog tonics, and hog-dip. H. B. Bernard. No. 123,419; Apr. 6; v. 273; p. 153.

CLASSIFICATION OF PATENTS

ISSUED APRIL 6, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 7: 1,336,251
2— 61: 1,336,248
73: 1,336,279
94: 1,336,339
145: 1,336,303
149: 1,336,009
3— 3: 1,335,781
4— 5: 1,335,763
12: 1,336,249
24: 1,335,946
26: 1,336,034
5— 1: 1,335,961
13: 1,335,965
16: 1,336,062
39: 1,335,984
41: 1,336,003
1,336,197
43: 1,336,294
55: 1,336,263
57: 1,336,302
58: 1,336,240
64: 1,336,397
8— 18: 1,335,925
9— 20: 1,336,400
22: 1,336,075
1,336,394
10— 27: 1,336,213
12— 2: 1,335,779
105: 1,335,786
125: 1,336,002
13— 17: 1,336,007
18: 1,336,046
15— 17: 1,336,349
28: 1,336,044
46: 1,336,284
50: 1,335,896
52: 1,336,390
60: 1,336,078
16— 5: 1,336,174
49: 1,335,999
18— 1: 1,336,319
18: 1,336,220
38: 1,335,783
52: 1,335,926
19— 10: 1,336,402
20— 14: 1,335,747
16: 1,335,838
32: 1,336,068
52.1: 1,336,145
69: 1,335,920
86: 1,336,141
87: 1,336,283
92: 1,336,193
21— 69: 1,336,254
1,336,334
1,336,335
1,336,336
1,336,337
1,336,338
78: 1,335,971
150: 1,336,387
209: 1,336,074
212: 1,336,149
22— 111: 1,335,818
173: 1,336,212
177: 1,336,260
180: 1,336,259
204: 1,335,862
216: 1,336,234
23— 1: 1,335,743
3: 1,336,043
21: 1,335,891
22: 1,335,949
24: 1,336,182
24— 3: 1,336,083
18: 1,336,168
38: 1,335,830
40: 1,336,146
73: 1,336,383
83: 1,336,156
101: 1,336,147
108: 1,336,243
152: 1,336,273
245: 1,336,312
258: 1,336,129
25— 63: 1,336,164
156: 1,336,180
26— 16: 1,336,385
27— 7: 1,335,722
28— 20: 1,336,148
29— 78: 1,335,866
84: 1,336,291
87.1: 1,336,202
95: 1,336,209
98: 1,336,155
103: 1,335,892
164: 1,335,808
1,335,914
174: 1,336,332
1,336,333
30— 3: 1,336,126
10: 1,335,847
12: 1,335,840
23: 1,335,777
31— 101: 1,335,953
32— 9: 1,335,717
1,335,734
10: 1,335,825
33— 26: 1,336,241
47: 1,336,165
72: 1,336,010
85: 1,336,004
98: 1,336,102
129: 1,336,265
133: 1,336,230
197: 1,336,157
199: 1,336,189
217: 1,336,289
35— 5: 1,335,923
36— 14: 1,336,355
40: 1,336,194
60: 1,335,945
63: 1,336,276
71: 1,335,981
1,336,278
37— 7: 1,335,906
29: 1,335,932
42: 1,336,215
62: 1,336,016
40— 2: 1,336,270
27: 1,335,995
31: 1,336,032
42: 1,336,268
124: 1,335,822
132: 1,336,035
145: 1,335,870
41— 33: 1,335,755
42— 70: 1,335,988
43— 18: 1,336,088
20: 1,336,356
48: 1,336,227
69: 1,335,882
45— 2: 1,336,183
13: 1,335,881
24: 1,335,806
33: 1,336,321
52: 1,335,967
82: 1,336,275
115: 1,335,859
135: 1,336,345
137: 1,335,842
46— 12: 1,335,924
37: 1,335,900
40: 1,335,804
46: 1,335,855
64: 1,336,169
47— 25: 1,336,307
35: 1,335,845
49— 7: 1,335,733
14: 1,336,028
1,336,317
17.1: 1,336,056
50— 26: 1,335,903
51— 4: 1,335,905
1,335,979
1,335,994
1,336,014
7: 1,335,813
1,336,200
52— 4: 1,335,785
6: 1,335,788
1,335,789
1,335,790
58— 3: 1,335,761
53— 6: 1,336,292
54— 7: 1,335,964
46: 1,335,826
55— 9: 1,336,313
59: 1,336,024
70: 1,335,878
107: 1,335,962
56— 32: 1,336,176
284: 1,335,897
295: 1,336,257
316: 1,336,267
344: 1,336,065
58— 4: 1,336,150
117: 1,336,263
127.5: 1,336,204
60— 12: 1,336,392
46: 1,336,188
70: 1,335,775
61— 12: 1,336,048
62— 143: 1,336,172
64— 4: 1,335,736
24: 1,336,373
30: 1,335,833
39: 1,335,796
59: 1,336,352
91: 1,335,913
96: 1,335,740
65— 12: 1,335,998
67— 19: 1,335,831
68— 3: 1,336,186
9: 1,335,835
10: 1,335,857
32: 1,335,957
70— 29: 1,336,080
46: 1,335,821
55: 1,335,959
90: 1,336,384
113: 1,336,309
129: 1,335,965
1,336,379
72— 15: 1,335,780
43: 1,336,025
107: 1,335,896
111: 1,336,166
73— 24: 1,336,380
51: 1,335,887
54: 1,335,904
111: 1,336,104
74— 5: 1,335,960
7: 1,336,107
14: 1,335,898
1,336,322
21: 1,336,117
26: 1,335,809
34: 1,335,811
36: 1,336,286
46: 1,335,911
1,335,980
50: 1,335,754
1,336,086
54: 1,336,108
104: 1,335,745
109: 1,335,951
1,336,342
75— 1: 1,335,982
1,335,983
1,335,991
1,335,992
1,336,081
18: 1,336,386
27: 1,336,256
76— 30: 1,336,042
77— 58: 1,336,311
78— 26: 1,336,153
50: 1,335,807
1,336,121
53.5: 1,336,073
60: R. 14,835
80— 54: 1,336,177
81— 3: 1,336,222
19: 1,336,229
38: 1,336,087
83— 9: 1,336,364
10: 1,336,015
15: 1,336,250
88: 1,336,300
73: 1,335,934
83— 88: 1,335,824
1,336,327
84— 7: 1,336,359
10: 1,335,867
30: 1,335,791
85— 3: 1,336,162
87— 9: 1,336,207
88— 17: 1,335,749
18.7: 1,335,817
19.3: 1,335,744
47: 1,335,942
52: 1,335,823
146.5: 1,336,269
148: 1,335,933
169: 1,335,762
1,335,793
1,335,797
1,336,221
171: 1,335,989
175: 1,336,091
180: 1,336,144
197: 1,335,947
126— 39: 1,335,760
100: 1,336,058
276: 1,335,941
317: 1,335,730
338: 1,335,844
128— 80: 1,336,001
215: 1,336,061
249: 1,336,109
252: 1,336,366
305: 1,336,376
129— 16.5: 1,336,120
16.7: 1,336,115
130— 32: 1,336,059
1,336,297
131— 12: 1,336,233
1,336,393
132— 32: 1,336,216
134— 22: 1,336,055
53: 1,335,757
135— 34: 1,336,219
36: 1,336,218
137— 20: 1,336,310
76: 1,336,211
160: 1,336,354
139— 51: 1,336,089
78: 1,335,876
140— 7: 1,336,343
149: 1,336,159
141— 9: 1,335,853
143— 43: 1,336,365
144— 50: 1,336,246
61: 1,336,245
64: 1,336,244
1,336,247
203: 1,335,798
288: 1,335,721
309: 1,336,262
148— 21: 1,335,977
151— 29: 1,335,901
41: 1,335,944
66: 1,336,077
152— 2: 1,336,363
1,336,369
8: 1,335,820
10: 1,336,139
11.5: 1,335,976
12: 1,335,861
1,336,023
13: 1,336,173
14: 1,335,916
1,336,175
16: 1,336,271
21: 1,335,778
22: 1,336,348
28: 1,335,939
1,336,060
50: 1,335,752
1,336,061
154— 10: 1,335,879
43: 1,336,408
44: 1,335,909
54: 1,336,404
155— 2: 1,335,950
24: 1,335,883
26: 1,335,776
155— 26: 1,336,097
41: 1,335,973
55: 1,335,938
77: 1,335,884
156— 14: 1,335,854
17: 1,336,325
23: 1,336,051
24: 1,335,954
1,336,047
26: 1,335,968
38: 1,336,101
44: 1,335,930
157— 1: 1,335,795
158— 27.4: 1,335,922
29: 1,336,261
36: 1,335,792
38: 1,336,288
63: 1,336,103
1,336,208
99: 1,335,869
161— 2: 1,336,318
163— 8: 1,335,731
164— 42: 1,335,728
166— 8: 1,335,975
167— 3: 1,336,272
10: 1,335,986
170— 23: 1,336,315
171— 95: 1,336,399
209: 1,336,196
323: 1,335,936
173— 268: 1,336,290
269: 1,335,943
324: 1,335,935
358: 1,335,828
362: 1,336,395
366: 1,335,801
175— 183: 1,335,940
1,335,985
265: 1,335,738
294: 1,336,158
357: 1,335,837
361: 1,335,803
177— 314: 1,336,306
179— 18: 1,336,098
40: 1,335,739
100.1: 1,335,978
149: 1,336,253
180— 1: 1,335,856
9: 1,336,130
1,336,132
1,336,133
16: 1,335,836
1,336,305
26: 1,335,732
41: 1,336,057
70: 1,336,008
90: 1,335,720
182— 11: 1,336,280
183— 114: 1,335,758
184— 13: 1,336,076
48: 1,336,135
104: 1,336,368
187— 25: 1,335,719
62: 1,335,849
87: 1,336,170
188— 3: 1,336,235
48: 1,336,231
189— 1: 1,336,324
191— 91: 1,336,199
192— 1: 1,336,000
13: 1,335,748
193— 1: 1,336,304
55: 1,335,877
194— 4: 1,335,966
57: 1,336,389
196— 1: 1,335,773
3: 1,335,767
1,335,772
5: 1,336,360
14: 1,336,357
25: 1,335,768
1,336,769
1,335,770
1,335,771
197— 1: 1,336,151
72: 1,335,956
85: 1,335,903

197— 100: 1,336,122
200— 3: 1,336,064
8: 1,336,138
23: 1,336,296
31: 1,336,350
90: 1,336,142
1,336,143
91: R. 14,834
106: 1,336,069
125: 1,335,810
1,336,238
153: 1,335,753
1,335,834
159: 1,335,729
1,336,066
203— 6: 1,336,204
204— 5: 1,336,052
8: 1,335,846
29: 1,336,127
58: 1,336,281
64: 1,335,895
1,336,017
206— 16: 1,335,863
22: 1,335,970
207— 1: 1,336,224
208— 33: 1,336,374
97: 1,335,765
210— 10: 1,335,955
16: 1,335,899
210— 16: 1,336,214
19: 1,335,802
211— 13: 1,335,972
1,336,375
16: 1,336,206
1,336,382
24: 1,336,293
31: 1,336,140
213— 50: 1,336,326
56: 1,335,868
67: 1,336,181
214— 23: 1,335,741
46: 1,336,005
215— 1: 1,336,049
65: 1,336,252
80: 1,336,367
217— 1: 1,336,011
60: 1,336,085
90: 1,336,179
219— 8: 1,335,875
20: 1,336,105
22: 1,335,987
34: 1,336,021
220— 25: 1,336,012
43: 1,335,787
61: 1,336,358
221— 103: 1,336,187
114: 1,335,800
127: 1,336,124
223— 52: 1,335,805
224— 56: 1,335,888
225— 28: 1,335,874
226— 93: 1,335,819
109: 1,336,071
229— 68: 1,335,814
1,336,092
78: 1,335,850
1,335,851
230— 2: 1,336,396
13: 1,335,829
24: 1,336,301
27: 1,335,718
232— 4: 1,336,228
8: 1,335,963
233— 45: 1,335,784
234— 1: 1,336,113
10: 1,336,090
235— 58: 1,335,794
1,336,192
60: 1,335,815
236— 12: R. 14,836
13: 1,336,072
237— 78: 1,336,225
238— 179: 1,335,751
205: 1,336,099
240— 1: 1,335,832
8.5: 1,336,067
23: 1,335,841
240— 39: 1,336,112
45: 1,335,727
48: 1,335,889
48.4: 1,335,918
241— 6: 1,336,053
12: 1,335,927
242— 6: 1,336,328
1,336,329
55: 1,336,050
71: 1,335,742
1,335,917
244— 3: 1,336,080
12: 1,336,406
18: 1,335,852
29: 1,336,160
1,336,161
1,336,405
245— 5: 1,336,154
246— 103: 1,335,919
341: 1,336,114
405: 1,336,195
248— 27: 1,335,902
38: 1,335,724
41: 1,335,726
58: 1,335,796
250— 20: 1,336,378
1,336,398
251— 47: 1,336,026
54: 1,336,316
251— 106: 1,336,236
254— 41: 1,336,223
77: 1,336,027
88: 1,335,969
91: 1,335,858
97: 1,335,782
123: 1,335,885
128: 1,335,931
255— 61: 1,335,880
256— 3: 1,336,205
257— 89: 1,336,079
125: 1,335,812
130: 1,335,890
1,335,997
1,336,136
155: 1,335,799
241: 1,336,152
259— 99: 1,335,737
261— 121: 1,336,070
262— 7: 1,335,723
30: 1,336,039
263— 10: 1,336,190
15: 1,336,266
33: 1,336,137
265— 28: 1,336,351
266— 6: 1,335,912
267— 19: 1,336,167
47: 1,336,314
64: 1,336,184
267— 67: 1,336,353
268— 9: 1,335,750
274— 27: 1,336,036
277— 20: 1,336,064
280— 44: 1,336,037
48: 1,336,033
87.5: 1,336,100
281— 29: 1,336,198
284— 9: 1,336,123
285— 67: 1,336,323
90: 1,336,111
286— 27: 1,336,308
287— 24: 1,336,006
43: 1,336,185
292— 78: 1,335,958
175: 1,336,242
210: 1,336,274
342: 1,336,045
293— 42: 1,336,277
294— 28: 1,336,255
49: 1,336,203
60: 1,335,848
295— 44: 1,336,128
296— 102: 1,336,331
116: 1,336,022
145: 1,336,116
298— 19: 1,336,163
299— 9: 1,336,401

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aeschbach, Friedrich, Aarau, Switzerland. Mixing and kneading machine. No. 1,336,878; Apr. 13; v. 273; p. 283.

Aiman, Frank P., Norfolk, Va. Headlight. No. 1,336,407; Apr. 13; v. 273; p. 193.

Air Reduction Company. (See Metzger, Floyd J., assignor.)

Allatt, Thomas, New York, assignor to International Cork Company, Brooklyn, N. Y. Disk-sorting machine. No. 1,337,031; Apr. 13; v. 273; p. 312.

Allen Filter Company, The. (See Shull, Leo W., assignor.)

Allen, John E., Pittsburgh, Okla. Check-book. No. 1,336,804; Apr. 13; v. 273; p. 268.

Allen, John V., Providence, R. I. Thread-lock for hand-threading loom-shuttles. No. 1,336,805; Apr. 13; v. 273; p. 269.

Allen, William H., Detroit, Mich. Tanned sponge. No. 1,336,806; Apr. 13; v. 273; p. 269.

Alling, William T. (See Deakins G. C., and Harker, assignors.)

Allman, David W., Toronto, Ontario, Canada. Gas Water-heater. No. 1,336,937; Apr. 13; v. 273; p. 294.

Almagia, Leone, Cornigliano Ligure, and E. Guerreschi, Sampierdarena, assignors to Società Anonima Italiana Gio. Ansaldo & C., Cornigliano Ligure, Italy. Electric furnace. No. 1,336,807; Apr. 13; v. 273; p. 269.

Almeter, Lewis L. (See Lemke, A. C., and Almeter.)

Alva Carpet & Rug Company. (See Fromuth, August G., assignor.)

American Button & Fastener Company. (See Elliott, William E., assignor.)

American Can Company. (See Dun Lany, William P., assignor.)

American Car and Foundry Company. (See Amundsen, Godfrey B., assignor.)

American Car and Foundry Company. (See Anchincloss, William K., assignor.)

American Car and Foundry Company. (See Bates, Richard A., assignor.)

American Car and Foundry Company. (See Joy, Robert W., assignor.)

American Car and Foundry Company. (See Ostrander, Allen E., assignor.)

American Car and Foundry Company. (See Wolff, Herbert W., assignor.)

American Dressler Tunnel Kilns. (See Swinnerton, Bertram B., assignor.)

American Laundry Machinery Co. (See Binder, Gottlob, assignor.)

American Manganese Steel Company. (See Nichols, Wesley G., assignor.)

American Oven & Machine Company. (See Royan, George, assignor.)

American Stove Company. (See Child, Guy B., assignor.)

American Telephone and Telegraph Company. (See Gherardi, Bancroft, assignor.)

American Type Founders Company. (See Kelly, William M., assignor.)

Amundsen, Godfrey B., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Friction-driver for lathes and grinders. No. 1,336,548; Apr. 13; v. 273; p. 219.

Anderson, Albert S., assignor to G. Waldref, St. Paul, Minn. Equalizer for hoists. No. 1,337,111; Apr. 13; v. 273; p. 327.

Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)

Anderson, Ernest D., assignor to E. D. Anderson Inc., New York, N. Y. Wrapping-machine. No. 1,336,549; Apr. 13; v. 273; p. 219.

Anderson, Oscar W., Valley City, N. D. Piston-ring. No. 1,336,670; Apr. 13; v. 273; p. 242.

Anthony, Alfred H., Colchester, England. Valve mechanism for reciprocating engines. No. 1,336,711; Apr. 13; v. 273; p. 251.

Appinel, Giuseppe, Elkville, Ill. Multiple propelled balloon. No. 1,337,032; Apr. 13; v. 273; p. 312.

Arrow Electric Company, The. (See Gates, Frederic P., assignor.)

Ash, Richard L., assignor of one-third to L. Gibson and one-third to H. Murray, Philadelphia, Pa. Hat and garment holder. No. 1,336,408; Apr. 13; v. 273; p. 193.

Ashley, Frank M., Brooklyn, N. Y. Peg-box cover for violins and the like. No. 1,336,409; Apr. 13; v. 273; p. 193.

Atkins, Walter, assignor of one-third to W. J. Pedler and one-third to A. D. Plughoff, San Francisco, Calif. Child's velocipede. No. 1,336,879; Apr. 13; v. 273; p. 283.

Atlas Bread Company. (See Hopkins, W. G., and Sullivan, assignors.)

Anchincloss, William K., assignor to American Car and Foundry Company, New York, N. Y. Tank-anchor for tank-cars. No. 1,336,410; Apr. 13; v. 273; p. 193.

Aurand, Arthur G., Los Angeles, Calif. Making concrete units. No. 1,336,712; Apr. 13; v. 273; p. 251.

Austin, Frederick C. (See Rosendahl, Nils M., assignor.)

Austin, Frederick C. (See Stahl, Charles E., assignor.)

Avery, Courtney C. (See Underhill, W. A., and Avery.)

Aylor, William E., and M. Rauh, Dayton, Ohio. Cotter-key. No. 1,336,498; Apr. 13; v. 273; p. 209.

Aylor, William E., Dayton, Ohio. Cotter-extractor. No. 1,336,938; Apr. 13; v. 273; p. 294.

Backus, Albert, Okmulgee, Okla. Golf-club. No. 1,336,671; Apr. 13; v. 273; p. 243.

Baehr, George, and E. L. Messler, Pittsburgh, Pa. Deflecting-wall for furnaces. No. 1,336,499; Apr. 13; v. 273; p. 209.

Bagley, Harley S. (See Emerson, George A., assignor.)

Bahler, Fred, Gilroy, Calif. Automobile-signal. No. 1,336,713; Apr. 13; v. 273; p. 251.

Bainton, George W., assignor of one-half to Roland & Whytock Company, Providence, R. I. Safety-catch for pins. No. 1,337,114; Apr. 13; v. 273; p. 328.

Baker, Clyde L., Central Lake, Mich. Plow-wheel adjuster. No. 1,336,550; Apr. 13; v. 273; p. 219.

Baker, Hartley O. (See Cook, W. P., and Baker.)

Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Water-tube boiler. No. 1,336,714; Apr. 13; v. 273; p. 251.

Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-frame. No. 1,336,715; Apr. 13; v. 273; p. 251.

Baker, Hartley O., assignor to The Baker Steam Motor Car Manufacturing Co., Inc., Pueblo, Colo. Axle connection for engines. No. 1,336,716; Apr. 13; v. 273; p. 251.

Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Fuel-pumping system. No. 1,336,717; Apr. 13; v. 273; p. 252.

Baker, R. & L., Company, The. (See Fend, Roland S., assignor.)

Baker, Ralph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode-adapter. No. 1,336,603; Apr. 13; v. 273; p. 230.

Baker, Rollyn H., Dayton, Ohio. Irrigated brush. No. 1,336,604; Apr. 13; v. 273; p. 230.

Baker Steam Motor Car and Manufacturing Company, The. (See Baker, Hartley O., assignor.)

Baker Steam Motor Car and Manufacturing Company, The. (See Cook, W. P., and Baker, assignors.)

Baldwin Locomotive Works, The. (See Deans, F. B., and Kirk., assignors.)

Ball, John R., Durango, Colo. Inclosed-screen ball-mill. No. 1,337,033; Apr. 13; v. 273; p. 313.

Bammer, Pius, assignor to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Feeding mechanism. No. 1,336,771; Apr. 13; v. 273; p. 262.

Bank, Frederick V., Cincinnati, Ohio. Window-cleaning attachment. No. 1,336,672; Apr. 13; v. 273; p. 243.

Banker, Oscar H. (See Reinhardt, W. C., and Banker.)

Banta, Pauline W., Tampa, Fla. Heating-stove. No. 1,336,412; Apr. 13; v. 273; p. 194.

Barfoed, Svend, Berkeley, Calif. Electric furnace. No. 1,336,939; Apr. 13; v. 273; p. 295.

Barksdale, Sherod P., Philadelphia, Pa. Step. No. 1,336,718; Apr. 13; v. 273; p. 252.

Barnes, Charles W., Logansport, Ind. Vacuum-cleaning apparatus. No. 1,336,994; Apr. 13; v. 273; p. 304.

Barnett, John B., assignor of one-half to R. N. Tutt, Kansas, Mo. Automatic display-sign. No. 1,336,411; Apr. 13; v. 273; p. 193.

Barron, William L., New York, N. Y., and F. E. Osol, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,336,808; Apr. 13; v. 273; p. 269.
Barstow, Edwin O. (See Dow, H. H., and Barstow.)
Barton, Morris H. (See Silvius, Ellis T., assignor.)
Bass, Ernest C., New York, N. Y. Focal-plane shutter. (Reissue.) No. 14,837; Apr. 13; v. 273; p. 340.
Bates, Richard A., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Lubricating device. No. 1,336,413; Apr. 13; v. 273; p. 194.
Batty, Ernest J., East Providence, R. I. Nursing-bottle holder. No. 1,336,809; Apr. 13; v. 273; p. 269.
Bauermeister, Carl E., Terre Haute, Ind. Sampling-jar. No. 1,337,034; Apr. 13; v. 273; p. 313.
Baulig, Herman, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y. Mechanism for treating fruit juice. No. 1,336,719; Apr. 13; v. 273; p. 252.
Baulig, Herman, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y. Treating fruit juice. No. 1,336,720; Apr. 13; v. 273; p. 252.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Plate-clamping device for printing-presses. No. 1,336,721; Apr. 13; v. 273; p. 253.
Bechtold, Joseph H., Sioux Falls, S. D. Cuff-button. No. 1,336,880; Apr. 13; v. 273; p. 283.
Beck, Allen B., Cleveland, Ohio. Device for preventing offset in printing-presses. No. 1,336,995; Apr. 13; v. 273; p. 305.
Becker, John, Brooklyn, N. Y. Automatic wire-blank-cutting apparatus. No. 1,336,605; Apr. 13; v. 273; p. 230.
Beevar, John O., Chicago, Ill. Fishhook. No. 1,336,987; Apr. 13; v. 273; p. 303.
Beebe, Norman H. (See Duvall, G. W., Beebe, and Smith.)
Beers, Edward C., Rochester, assignor to Phillips & Clark Stove Co., Inc., Geneva, N. Y. Convertible gas-flue for combination gas and coal ranges. No. 1,337,112; Apr. 13; v. 273; p. 327.
Begg, Jonathan, Oakland, Calif. Salvage-boat. No. 1,337,035; Apr. 13; v. 273; p. 313.
Begley, William J., Arverne, N. Y. Tail-light and traffic-signaling device for automobiles. No. 1,336,772; Apr. 13; v. 273; p. 262.
Behan, Charles D., Stigler, Okla. Well-bucket. No. 1,336,881; Apr. 13; v. 273; p. 283.
Behr, Hans C., New York, N. Y. Process of and apparatus for separating liquids from solids. No. 1,336,722; Apr. 13; v. 273; p. 753.
Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,336,414; Apr. 13; v. 273; p. 194.
Bell, Raymond T., and L. Mandel, Chicago, Ill., assignors to The Mandel Corporation. Brake or stop device for sound-reproducing machines. No. 1,336,606; Apr. 13; v. 273; p. 230.
Benecke, Adelbert O., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Engine-indicator. No. 1,336,810; Apr. 13; v. 273; p. 269.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Cottrell, William, assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 1,336,607; Apr. 13; v. 273; p. 230.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecting device. No. 1,336,608; Apr. 13; v. 273; p. 231.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Signal device for motor-vehicles. No. 1,336,609; Apr. 13; v. 273; p. 231.
Benner, Raymond C., and H. F. French, Freemont, Ohio, assignors to National Carbon Company, Inc., New York, N. Y. Apparatus for producing smoke-screens. No. 1,336,557; Apr. 13; v. 273; p. 221.
Bennett, Edward, Washington, D. C. Combined card-holder and clamp. No. 1,336,723; Apr. 13; v. 273; p. 253.
Benzinger, Albert, assignor of one-half to W. M. Schoenle, Cincinnati, Ohio. Closure. No. 1,336,811; Apr. 13; v. 273; p. 270.
Berberich, Charles, Waterbury, Conn. Cigar-tip cutter. No. 1,336,724; Apr. 13; v. 273; p. 253.
Bergmann, Frederic, Lyon, France. Eye-shield. No. 1,337,036; Apr. 13; v. 273; p. 313.
Berkstresser, Robert H., York, Pa. Time-controlled mechanism. No. 1,337,037; Apr. 13; v. 273; p. 313.
Berry, Herbert H., London, England. Imitation fire. No. 1,336,500; Apr. 13; v. 273; p. 209.
Berutson, Bernhard M., Chicago, Ill. Flue-scraper. No. 1,336,673; Apr. 13; v. 273; p. 243.
Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Co., Cincinnati, Ohio. Bosom-press. No. 1,336,415; Apr. 13; v. 273; p. 194.
Biwoin, Stanley, White Lake, Wis. Baby-carriage. No. 1,336,725; Apr. 13; v. 273; p. 253.
Biwoin, Stanley, White Lake, Wis. Bread-slicing machine. No. 1,336,726; Apr. 13; v. 273; p. 254.
Blanckensee, Sidney P., Birmingham, England. Cutting or sawing machinery. No. 1,336,501; Apr. 13; v. 273; p. 209.
Bloom, James. (See Johnson, R. W., and Bloom.)
Boe, Hans M., Minneapolis, Minn. Oil-reservoir. No. 1,336,983; Apr. 13; v. 273; p. 302.
Boixeda, Daniel, Barcelona, Spain. Moving-picture apparatus. No. 1,336,996; Apr. 13; v. 273; p. 305.
Bolfing, Arthur J., San Francisco, Calif. Rotary engine. No. 1,336,997; Apr. 13; v. 273; p. 305.
Bolus, Glenn H. (See Brown, J. R., and Bolus.)
Bond, Edmund M., Detroit, Mich. Starter for internal-combustion engines. No. 1,337,113; Apr. 13; v. 273; p. 328.
Boode, Axel. (See Nelson, N. S., and Boode.)
Borchers, George W., San Jose, Calif. Supplementary jaws for vises. No. 1,336,610; Apr. 13; v. 273; p. 231.
Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Regulator for electric generators. No. 1,336,416; Apr. 13; v. 273; p. 194.
Bosch Aktiengesellschaft, Firm of Robert. (See Woerner, Eugen, assignor.)
Bott, George R., New York, N. Y., assignor to The Norma Company of America. Joint for artificial limbs. No. 1,336,812; Apr. 13; v. 273; p. 270.
Bottle, Edward K., Elmira, assignor to W. A. Cooke, Brooklyn, N. Y. Puncturing device for files, binders, or the like. No. 1,336,998; Apr. 13; v. 273; p. 305.
Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,502; Apr. 13; v. 273; p. 210.
Bowmer, John B., Plummer, Idaho. Brake-block. No. 1,336,882; Apr. 13; v. 273; p. 283.
Boyce, Stanley. (See Brock, R. E., and Boyce.)
Bradbury, Herbert W. (See Groves, C. D., Jarvis, and Bradbury.)
Braden, Robert D., and C. W. Grant, assignors to Oxweld Acetylene Company, Chicago, Ill. Acetylene-generator. No. 1,336,813; Apr. 13; v. 273; p. 270.
Bradshaw, William M., and W. G. Myllus, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,336,611; Apr. 13; v. 273; p. 231.
Brawn, Charles A., Philadelphia, Pa. Loading device. No. 1,336,674; Apr. 13; v. 273; p. 243.
Brazill, Patrick V., Paquette Station, Ontario, Canada. Rural mail-box. No. 1,336,417; Apr. 13; v. 273; p. 195.
Breckenridge, George M., assignor of one-half to J. P. McManus, Chicago, Ill. Printing mechanism. No. 1,336,988; Apr. 13; v. 273; p. 303.
Brewster, William A., Redlands, Calif. Heating device. No. 1,337,038; Apr. 13; v. 273; p. 314.
Brock, Richard E., and S. Boyce, Canton, Ohio. Heat-treating furnace. No. 1,336,814; Apr. 13; v. 273; p. 270.
Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-controlling mechanism. No. 1,336,418; Apr. 13; v. 273; p. 195.
Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Electrical-measuring-instrument switch. No. 1,336,419; Apr. 13; v. 273; p. 195.
Bronner, Charles F., Syracuse, N. Y. Clothes-wringer. No. 1,336,883; Apr. 13; v. 273; p. 284.
Brown & Sharpe Manufacturing Company. (See Spence, Lewis D., assignor.)
Brown, Harry E., Wichita, Kans. Underreamer. No. 1,336,884; Apr. 13; v. 273; p. 284.
Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Curve pull-off hanger. No. 1,336,504; Apr. 13; v. 273; p. 210.
Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,940; Apr. 13; v. 273; p. 295.
Brown, John R., and G. H. Bolus, assignors to The Ohio Brass Company, Mansfield, Ohio. Catenary suspension system for electric railways. No. 1,336,503; Apr. 13; v. 273; p. 210.
Bruder, George H., Boston, Mass. Hairpin. No. 1,337,039; Apr. 13; v. 273; p. 314.
Bryne, James L., Boston, Mass. Floating wooden dry-dock. No. 1,336,941; Apr. 13; v. 273; p. 295.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buggeln, Harry K., Corona, N. Y. Door-fastener. No. 1,336,505; Apr. 13; v. 273; p. 210.
Buckey, Thomas W., *et al.* (See Simmons, James L., assignor.)
Buluckian, Hachig M., Cleveland, Ohio. Hardening aluminum. No. 1,336,420; Apr. 13; v. 273; p. 195.
Bunting Brass & Bronze Company, The. (See Donaldson, Augustus F., assignor.)
Burch, Maston A., Cass, Ind. Bearing-scraper. No. 1,336,885; Apr. 13; v. 273; p. 284.
Burke, John W., Hamilton, Ontario, Canada. Cultivator. No. 1,336,421; Apr. 13; v. 273; p. 195.
Burman, Frank V., Marine City, Mich. Drying apparatus. No. 1,336,422; Apr. 13; v. 273; p. 195.
Butler, William M., Syracuse, N. Y. Furnace. No. 1,336,675; Apr. 13; v. 273; p. 243.
Byron Jackson Iron Works. (See Schorr, Robert, assignor.)
Cady, Sherman W., Auburn, N. Y., assignor to International Harvester Company. Tandem disk harrow. No. 1,336,676; Apr. 13; v. 273; p. 244.
Cairns, Hugh S., Yenangyaung, Upper Burma, India. Fishing-tool for use in well-boring. No. 1,336,815; Apr. 13; v. 273; p. 270.

Caldwell, John W., Lebanon, N. H. Screw. No. 1,336,773; Apr. 13; v. 273; p. 262.
Callahan, Robert L., Louisville, Ky. Bag-filling machine. No. 1,336,612; Apr. 13; v. 273; p. 231.
Callender, Wallace V., Chicago, Ill. Method and apparatus for retinning ice-cream cans. No. 1,336,886; Apr. 13; v. 273; p. 284.
Canada, Somers T., Atlanta, Ga. Radiator. No. 1,336,816; Apr. 13; v. 273; p. 271.
Candee, L., & Co. (See Joseph, Frank A., assignor.)
Cannon, Louis S., Rosemary, N. C. Safety stop-motion for Jacquard looms. No. 1,336,677; Apr. 13; v. 273; p. 244.
Carborundum Company, The. (See Linbarger, Silas C., assignor.)
Carden, David A., Houston, Tex., assignor, by mesne assignments, to Interstate Oil and Equipment Corporation. Pump. No. 1,337,180; Apr. 13; v. 273; p. 340.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,337,040; Apr. 13; v. 273; p. 314.
Carlisle, Bert, Santa Ana, Calif. Aeroplane. No. 1,336,678; Apr. 13; v. 273; p. 244.
Carlsen, Albert C., Pocatello, Idaho. Chain-tightener. No. 1,336,679; Apr. 13; v. 273; p. 244.
Carpenter, Campbell C., and R. J. Ellis, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-cell and vent means therefor. No. 1,336,506; Apr. 13; v. 273; p. 211.
Carpenter, Campbell C., and R. J. Ellis, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-jar and cover. No. 1,336,507; Apr. 13; v. 273; p. 211.
Carpenter, Frank G., Sioux City, Iowa. Hog-beater shaft attachment. No. 1,336,887; Apr. 13; v. 273; p. 284.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,115; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,116; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,117; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,118; Apr. 13; v. 273; p. 328.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,119; Apr. 13; v. 273; p. 328.
Carr, George R. (See Gorton, A. C., and Carr.)
Carrau, Edward, assignor of one-half to W. F. Walbach, Chicago, Ill. Tire. No. 1,336,817; Apr. 13; v. 273; p. 271.
Carson, Clark, Davenport, Iowa. Radiating system for internal-combustion motors. No. 1,336,613; Apr. 13; v. 273; p. 232.
Carter, David S., assignor to Larned, Carter & Company, Detroit, Mich. Overalls-pocket. No. 1,336,614; Apr. 13; v. 273; p. 232.
Cassaday, Ormond F., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Toll trunk-circuit. No. 1,336,615; Apr. 13; v. 273; p. 232.
Cetta, Stephen F., Brooklyn, N. Y. Banjo. No. 1,337,041; Apr. 13; v. 273; p. 314.
Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, Means for connecting hydrocarbon-burners to supply-pipes. No. 1,336,423; Apr. 13; v. 273; p. 196.
Chappell, Howard F., New York, N. Y. Utilization of native alunite. No. 1,336,508; Apr. 13; v. 273; p. 211.
Chase, Elroy A., assignor to Phillips & Slack, Inc., Northfield, Vt. Stone-profiling machine. No. 1,336,942; Apr. 13; v. 273; p. 295.
Chemical Foundation, The. (See Gerber, Otto, assignor.)
Chemical Foundation, The. (See Schmidt, Otto, assignor.)
Chemical Foundation, The. (See Tschunke, Reinhold, assignor.)
Chenault, George N., Forney, Tex. Chopping attachment. No. 1,336,727; Apr. 13; v. 273; p. 254.
Cheston, Arthur S., Birmingham, England. Combined dovetail and buffer or cushioning device for the doors of motor-cars and other vehicles. No. 1,337,042; Apr. 13; v. 273; p. 314.
Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
Child, Guy B., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Adjustable broiling-grid. No. 1,337,043; Apr. 13; v. 273; p. 314.
Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Transportation apparatus. No. 1,336,551; Apr. 13; v. 273; p. 220.
Christensen, James C. (See Johnston, F. H., and Christensen.)
Christensen, Niels A., Milwaukee, Wis. Starting mechanism for internal-combustion engines. No. 1,336,616; Apr. 13; v. 273; p. 232.
Christensen, Niels, Lima, Ohio. Ripener for mother-starter. No. 1,336,728; Apr. 13; v. 273; p. 254.
Christensen, Nels M., Fremont, Nebr. Device to seal freight-car doors. No. 1,336,888; Apr. 13; v. 273; p. 384.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,336,462; Apr. 13; v. 273; p. 202.
Cincinnati Ball Crank Company, The. (See Kaps, Richard A., assignor.)
Cincinnati Grinder Company, The. (See Kimmel, George C., assignor.)
Clement, Edward E. (See Sibbald, William H., assignor.)
Clemmer, Howard M. (See Kester, James A., assignor.)
Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)
Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif. Table-top. No. 1,336,818; Apr. 13; v. 273; p. 371.
Codos, Jacob, and B. May, New York, N. Y. Door-lock. No. 1,336,617; Apr. 13; v. 273; p. 232.
Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Radiator. No. 1,336,999; Apr. 13; v. 273; p. 305.
Coker, James R., assignor to S. I. Coker, Knoxville, Tenn. Selective signaling and train-stop system. No. 1,336,889; Apr. 13; v. 273; p. 285.
Coker, S. I. (See Coker, James R., assignor.)
Cole, Arthur D., Minneapolis, Minn. Tractor. No. 1,336,890; Apr. 13; v. 273; p. 285.
Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,336,509; Apr. 13; v. 273; p. 211.
Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,336,510; Apr. 13; v. 273; p. 211.
Collier-Keyworth Company. (See Collier, David R., assignor.)
Compagnie Generale D'Electricite. (See Dupuy, René J., assignor.)
Conklin Pen Manufacturing Company, The. (See Luck, Charles A., assignor.)
Conly, Frederick V. (See Matter, A. J., and Conly.)
Conlon Electric Washer Company. (See Wassell, Clifford R., assignor.)
Continental Tractor Company. (See Plettner, O. L., and Lowe, assignors.)
Cook, Daniel, Lyman, Utah. Mousetrap. No. 1,337,044; Apr. 13; v. 273; p. 315.
Cook, Ernest W., *et al.* (See Gothner, John, assignor.)
Cook, John C., New London, Conn. Holder for substances to be consumed by abrasion. No. 1,336,819; Apr. 13; v. 273; p. 271.
Cooke, William A. (See Bottle, Edward K., assignor.)
Cook, William J., Charlotte, N. C. Air-valve for steam-radiators. No. 1,337,045; Apr. 13; v. 273; p. 315.
Cook, William P., and H. O. Baker, assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-frame. No. 1,336,729; Apr. 13; v. 273; p. 254.
Cooper, Angus B. (See Deever, Frederick P., assignor.)
Cooper, John J., Stamford, Conn. Cabinet for an exercising apparatus. No. 1,336,774; Apr. 13; v. 273; p. 262.
Cooperman, Rachel, Chicago, Ill. Necktie-fastener. No. 1,336,618; Apr. 13; v. 273; p. 233.
Copeman Electric Stove Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., Flint, Mich., assignor to Copeman Electric Stove Company. Heating apparatus. No. 1,336,552; Apr. 13; v. 273; p. 220.
Corbin, Walter F., Grand Rapids, Mich. Implement for kinking fire-hose. No. 1,336,891; Apr. 13; v. 273; p. 285.
Cornelius, Logan, Hardy, Okla. Fencepost. No. 1,336,680; Apr. 13; v. 273; p. 245.
Costello, Thomas J., Warren, Ohio, assignor to George J. Hagan Company, Pittsburgh, Pa. Annealing-furnace. No. 1,336,681; Apr. 13; v. 273; p. 245.
Cottrell, William, Riverside, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Air-blast pressure attachment for presses. No. 1,337,000; Apr. 13; v. 273; p. 306.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,337,002; Apr. 13; v. 273; p. 306.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,337,003; Apr. 13; v. 273; p. 306.
Court, Georges T., Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Injection-syringe with protecting-hood. No. 1,336,730; Apr. 13; v. 273; p. 254.
Couve, Charles E., Aurora, Ill., assignor to Couve-Dunham Company. Manufacturing puppet-valves. No. 1,337,001; Apr. 13; v. 273; p. 306.
Couve-Dunham Company. (See Couve, Charles F., assignor.)
Coyle, James S., St. Louis, Mo. Ignition device. No. 1,337,046; Apr. 13; v. 273; p. 315.
Crane, Bert B., Rochester, N. Y. Bulkhead. No. 1,336,892; Apr. 13; v. 273; p. 286.
Crane, Richard T., Jr., Chicago, Ill. Safety-spring for berths, &c. No. 1,336,943; Apr. 13; v. 273; p. 295.
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,336,619; Apr. 13; v. 273; p. 232.
Crosby, Edwin L., Highland Park, Mich. Electric furnace. No. 1,336,820; Apr. 13; v. 273; p. 271.
Crosby Steam Gage & Valve Company. (See Benecke, Adelbert O., assignor.)
Crothamel, Almon W., Ocean View, Va. Car-unloader. No. 1,337,047; Apr. 13; v. 273; p. 315.

Crowell, William J., Jr., Lebanon, Pa. Differential-pressure gage. No. 1,336,511; Apr. 13; v. 273; p. 211.
Crowell, William J., Jr., Wyncote, Pa. Ratio-meter. No. 1,336,512; Apr. 13; v. 273; p. 212.
Curry, William P., Syracuse, N. Y. Machine for cutting bevels. No. 1,336,731; Apr. 13; v. 273; p. 255.
Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
Curtiss Aeroplane and Motor Corporation. (See Musson, Edward T., assignor.)
Curtiss, Charles E., Clinton, Wis. Tillage-blade. No. 1,336,821; Apr. 13; v. 273; p. 272.
Cutler, William F., Oakland, assignor of one-half to Captain P. Verdier, San Francisco, Calif. Electric water-heater. No. 1,337,120; Apr. 13; v. 273; p. 329.
Cuyler, Edward H., and M. B. Patterson, assignors, by mesne assignments, to The Pacific R & H Chemical Corporation, Los Angeles, Calif. Apparatus for gasifying liquids. No. 1,336,822; Apr. 13; v. 273; p. 272.
Dallimore, George W., Oakland, Calif. Convertible freight-car. No. 1,336,682; Apr. 13; v. 273; p. 245.
Damker, William J. E., Dunellen, N. J. Stationary jack. No. 1,336,620; Apr. 13; v. 273; p. 233.
Danel, Joseph B. (See Roy, W. J., and Danel.)
Darby, Norman C., Piermont, N. Y. Motion-picture machine. No. 1,336,775; Apr. 13; v. 273; p. 262.
Darier, Georges E., Geneva, Switzerland. Recovery of benzene hydrocarbons from coal gas. No. 1,336,893; Apr. 13; v. 273; p. 286.
Darrow, Wilton E., Sutter Creek, Calif. Slime-thickener. No. 1,336,553; Apr. 13; v. 273; p. 220.
Daum, George W. (See Lewis, S. G., and Daum.)
Davies, John, W. H. Jones, J. Davies, and H. J. Hale, Liverpool, England. Covering or insulation for ships' decks, bulkheads, walls, floors, ceilings, and the like. No. 1,336,683; Apr. 13; v. 273; p. 245.
Davies, Joseph. (See Davies, J., Jones, and Hale.)
Davis, Christine, Minneapolis, Minn. Thread-holder. No. 1,336,554; Apr. 13; v. 273; p. 220.
Davis, Maxwell W., West Haven, Conn. Testing device. No. 1,336,424; Apr. 13; v. 273; p. 196.
Davy, Robert B., Hayward, Calif. Vacuum-railway. No. 1,336,732; Apr. 13; v. 273; p. 255.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Breech mechanism of ordnance. No. 1,337,004; Apr. 13; v. 273; p. 306.
Deakins, Grover C., and H. A. Harker, Fullerton, assignors of one-third to W. T. Alling, Anaheim, Calif. Overshot. No. 1,336,684; Apr. 13; v. 273; p. 245.
Dean, Thomas, Indianapolis, Ind. Machine for making book-covers. No. 1,336,944; Apr. 13; v. 273; p. 296.
Deans, Frank B., Sharon Hill, and B. K. Kirk, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Mechanism for operating the reels of mine-locomotives. No. 1,337,048; Apr. 13; v. 273; p. 315.
Debakey, Shiker M., Lake Charles, La. Show-case. No. 1,337,049; Apr. 13; v. 273; p. 316.
Debakey, Shiker M., Lake Charles, La. Home-store. No. 1,337,050; Apr. 13; v. 273; p. 316.
Deever, Frederick P., assignor of one-half to A. B. Cooper, Mannington, W. Va. Nut-lock. No. 1,336,733; Apr. 13; v. 273; p. 255.
De Ferranti, Sebastian Z., Baslow, England. Electrical transformer. No. 1,336,894; Apr. 13; v. 273; p. 286.
Defiance Machine Works. (See McCarty, William F., assignor.)
De Graff, Fannie, Ilwaco, Wash. Waffle-iron. No. 1,336,734; Apr. 13; v. 273; p. 255.
De Lukacsevics, Charles, assignor to J. Winter, New York, N. Y. Carburetor. No. 1,337,051; Apr. 13; v. 273; p. 316.
Denson, Jessie D., Grand Rapids, Mich. Aeroplane. No. 1,336,982; Apr. 13; v. 273; p. 302.
De Pretz, John D. (See Dobbins, Douglas, assignor.)
Dessaules, Paul, Nanterre, France. Tractor. No. 1,336,823; Apr. 13; v. 273; p. 272.
Desautels, Charles H., Springfield, Mass. Overhead switch. No. 1,337,121; Apr. 13; v. 273; p. 329.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,336,824; Apr. 13; v. 273; p. 272.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,336,825; Apr. 13; v. 273; p. 273.
Dewey, H. T., & Sons Company. (See Baulig, Herman, assignor.)
Dexter, Bayard P. (See Dexter, Fred A. and B. P.)
Dexter, Fred A. and B. P., Orange, Mass. Facing-tool for dressing valve-seats, &c. No. 1,337,052; Apr. 13; v. 273; p. 316.
Diaphone Signal Company, The. (See Sims, Frederick L. H., assignor.)
Dickelman, Lizzie H., Forest, Ohio. Grain-storehouse construction. No. 1,336,945; Apr. 13; v. 273; p. 296.
Disinger, Paul M., Syracuse, N. Y. China-burnishing machine. No. 1,336,685; Apr. 13; v. 273; p. 246.
Disston, Henry, & Sons. (See Jenkins, David W., assignor.)
Doak, John H., Los Angeles, Calif. Roasting and boiling device. No. 1,337,122; Apr. 13; v. 273; p. 329.
Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Airplane. No. 1,336,946; Apr. 13; v. 273; p. 296.
Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Airplane. No. 1,336,947; Apr. 13; v. 273; p. 296.
Dodson, Alcada F., Milan, Mo. Calculating-machine. No. 1,336,686; Apr. 13; v. 273; p. 246.
Doe, Loring B., assignor of one-half to E. G. Lewis, San Francisco, Calif. Draft device. No. 1,336,735; Apr. 13; v. 273; p. 255.
Dolecek, Joseph, Rahway, N. J. Truss. No. 1,336,513; Apr. 13; v. 273; p. 212.
Doll, Robert F., Bartonsville, Pa. Whip-socket. No. 1,336,948; Apr. 13; v. 273; p. 296.
Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broach. No. 1,336,621; Apr. 13; v. 273; p. 233.
Dorr Company, The. (See Peck, Charles L., assignor.)
Dow Chemical Company, The. (See Dow, H. H., and Barstow, assignors.)
Dow, Herbert H., and E. O. Barstow, assignors to The Dow Chemical Company, Midland, Mich. Method of making magnesium chlorid. No. 1,336,425; Apr. 13; v. 273; p. 196.
Draper Corporation. (See Rhodes, Albert C., assignor.)
Dreyling, Alfred, Jamesburg, N. J., and W. C. Locke, Stamford, Conn. Making canvas wire-cloth. No. 1,337,053; Apr. 13; v. 273; p. 317.
Drinkwater, Charles M., Kokomo, Ind. Food-cabinet. No. 1,336,776; Apr. 13; v. 273; p. 263.
Driver, John R. and M. B., Berkeley, Calif. Collapsible container. No. 1,336,895; Apr. 13; v. 273; p. 286.
Driver, John R. and M. B., Berkeley, Calif. Storage-container. No. 1,336,896; Apr. 13; v. 273; p. 286.
Driver, Michael B. (See Driver, John R. and M. B.)
Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Core-plate for drying cores. No. 1,337,005; Apr. 13; v. 273; p. 306.
Drummond, Albert, Los Angeles, Calif. Door-catch. No. 1,336,897; Apr. 13; v. 273; p. 287.
Dun Lany, William P., Maywood, Ill., assignor to American Can Company, New York, N. Y. Coin-controlled package-dispensing apparatus. No. 1,336,514; Apr. 13; v. 273; p. 212.
Dunn & McCarthy. (See Marshall, James F., assignor.)
Dunn, David, Philadelphia, Pa. Safety milk-bottle support and sanitary protector therefor. No. 1,336,826; Apr. 13; v. 273; p. 273.
Dunn, Edmund L. (See Dunn, Louis, assignor.)
Dunn, Louis, assignor to E. L. Dunn, St. Paul, Minn. Safety device for point-switches. No. 1,337,054; Apr. 13; v. 273; p. 317.
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Du Pont, E. I., de Nemours, & Company. (See Henning, Clarence I. B., assignor.)
Dupuy, René J., assignor to Compagnie Generale D'Electricite, Paris, France. Steam-turbine. No. 1,336,827; Apr. 13; v. 273; p. 273.
Durand, Louis, Lawrence, Mass. Lug-strap connection. No. 1,337,055; Apr. 13; v. 273; p. 317.
Duvall, George W., N. H. Beebe, and H. E. Smith, assignors to Modern Broom Machinery Company, Davenport, Iowa. Combined evener and cutter. No. 1,337,056; Apr. 13; v. 273; p. 317.
Dwyer, William C., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,336,687; Apr. 13; v. 273; p. 246.
Eagle Wagon Works, The. (See Underhill, W. A., and Avery, assignors.)
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive construction. No. 1,336,555; Apr. 13; v. 273; p. 220.
Ebeling, Charles W., New York, N. Y. Toy. No. 1,336,556; Apr. 13; v. 273; p. 220.
Economy Shoe Machine Co. (See Terry, George O., assignor.)
Edwards, Charles R., Pekin, Ill. Pump. No. 1,337,057; Apr. 13; v. 273; p. 317.
Edwards, Daniel G., Woodlawn, Tenn. Explosive shell. No. 1,336,828; Apr. 13; v. 273; p. 273.
Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Threading-machine. No. 1,336,777; Apr. 13; v. 273; p. 263.
Ellis, Roy J. (See Carpenter, C. C., and Ellis.)
Emerson, George A., assignor of one-half to H. S. Bagley, San Francisco, Calif. Portable elevator. No. 1,336,949; Apr. 13; v. 273; p. 296.
Engel, Herman C. (See Ketler, William H., assignor.)
Esperson, Christian. (See Nelson, Frederick, assignor.)
Esson, Robert L., Johannesburg, Transvaal, South Africa. Loose-leaf binder. No. 1,337,124; Apr. 13; v. 273; p. 329.
Ewing, Floyd C., Jeromesville, Ohio. Bracket for vehicle-springs. No. 1,336,829; Apr. 13; v. 273; p. 273.
Fanslow, Benjamin O., Queens county, assignor to New Era Mfg. Company, New York, N. Y. Check-writing machine. No. 1,337,006; Apr. 13; v. 273; p. 307.
Farrington, Charles E., Philadelphia, Pa. Barrel-agitator. No. 1,336,830; Apr. 13; v. 273; p. 273.
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)

Fend, Roland S., Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio. Automobile. No. 1,337,007; Apr. 13; v. 273; p. 307.
Fend, Roland S., Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio. Automobile. No. 1,337,008; Apr. 13; v. 273; p. 307.
Fenety, Witter W. O., Fredericton, New Brunswick, Canada. Incandescent-lamp socket. No. 1,336,736; Apr. 13; v. 273; p. 255.
Ferguson, Willis G., Cleveland, Ohio. Control system for valves and the like. No. 1,336,515; Apr. 6; v. 273; p. 212.
Ferko, John J., Cleveland, Ohio. Stabilizer for boats. No. 1,336,688; Apr. 13; v. 273; p. 246.
Field, Samuel, assignor to The Metals Extraction Corporation, Limited, London, England. Purification of zinc solutions. No. 1,337,058; Apr. 13; v. 273; p. 318.
Finch, Clifton R., Newark, N. J. Framework for display publicity by machine. No. 1,336,831; Apr. 13; v. 273; p. 273.
Finnegan, Bernard J., New York, N. Y. Bottle. No. 1,336,737; Apr. 13; v. 273; p. 256.
First Trust & Savings Company, The, trustees. (See Freeman, Ladbrook H., assignor.)
Fisher, Olive, Tipton, assignor of one-half to J. A. Mayne, Kokomo, Ind. Revolving chair. No. 1,337,059; Apr. 13; v. 273; p. 318.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,336,689; Apr. 13; v. 273; p. 246.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,336,690; Apr. 13; v. 273; p. 247.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,336,691; Apr. 13; v. 273; p. 247.
Fletcher, Harold W., Houston, Tex. Well-packer. No. 1,336,738; Apr. 13; v. 273; p. 256.
Flum, Edward L., Highland Park, Mich., and J. A. Maschino, Seymour, Ind. Automobile-jack. No. 1,337,125; Apr. 13; v. 273; p. 329.
Flynn, Olice A., Milton, Wash. Comic doll. No. 1,336,898; Apr. 13; v. 273; p. 287.
Foco Oil Company. (See Grant, Denison W., assignor.)
Foerster, Tom J., and L. J. Pfund, Auburn, Mich. Automatically-closing bulkhead-door. No. 1,337,060; Apr. 13; v. 273; p. 318.
Foley, William V., New Brunswick, N. J., assignor to India Rubber Company. Dye-stick. No. 1,337,009; Apr. 13; v. 273; p. 309.
Ford, Andrew F., Portland, Oreg. Gearless differential. No. 1,336,950; Apr. 13; v. 273; p. 297.
Forman, Joseph, Baltimore, Md. Garment-fastener. No. 1,336,692; Apr. 13; v. 273; p. 247.
Forrest, James M., Jr., San Francisco, Calif. Faucet-filter. No. 1,337,061; Apr. 13; v. 273; p. 318.
Fournier, George P. (See Lemoine, D., and Fournier.)
Fowl, Percy M., *et al.* (See Heideman, Fred J., assignor.)
Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Agricultural implement. No. 1,337,126; Apr. 13; v. 273; p. 329.
Franklin, Milton W., Bloomfield, N. J., assignor to General Electric Company. Ozonator. No. 1,337,062; Apr. 13; v. 273; p. 318.
Fredericksen, David E., Kenosha, Wis. Gage. No. 1,336,426; Apr. 13; v. 273; p. 196.
Freeman, Ladbrook H., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, trustee. Ironing-machine. No. 1,336,427; Apr. 13; v. 273; p. 196.
French, Charles E., *et al.* (See Heideman, Fred J., assignor.)
French, Harry F. (See Benner, R. C., and French.)
Frey, Sigmund, assignor to Woolwine Metal Products Company, Los Angeles, Calif. Holder for containers. No. 1,337,010; Apr. 13; v. 273; p. 308.
Friedrich, Gustav E., Grand Rapids, Mich. Machine for scouring cereals. No. 1,337,127; Apr. 13; v. 273; p. 330.
Friel, Patrick H., assignor to A. Terrell, Kenosha, Wis. Metal furniture constructed from lock-seam tubing. No. 1,337,128; Apr. 13; v. 273; p. 330.
Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Yarn and fabric and producing. No. 1,336,516; Apr. 13; v. 273; p. 213.
Fryer, John A., and W. W. Wallace, Tulsa, Okla. Torpedo for shooting oil-wells. No. 1,337,063; Apr. 13; v. 273; p. 318.
Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Suspension device for caterpillar-vehicles. No. 1,336,832; Apr. 13; v. 273; p. 274.
Fullgni, Benedict, and C. J. Muhsgnug, New York, N. Y. Automobile-reflector dimmer. No. 1,336,951; Apr. 13; v. 273; p. 297.
Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,336,693; Apr. 13; v. 273; p. 247.
Fuller, George E., Chicago, Ill. Sign. No. 1,336,517; Apr. 13; v. 273; p. 213.
Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,336,833; Apr. 13; v. 273; p. 274.
Fulton, Harry L., Pueblo, Colo. Auto-service bulletin. No. 1,336,739; Apr. 13; v. 273; p. 256.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Trap. No. 1,337,064; Apr. 13; v. 273; p. 319.
Gage, Jay, Los Angeles, Calif. Grade-indicator. No. 1,336,694; Apr. 13; v. 273; p. 247.
Gall, John F., assignor to Simmons Company, Kenosha, Wis. Feeding mechanism. No. 1,336,622; Apr. 13; v. 273; p. 233.
Gallagher, William H., Berkeley, Calif. Display-case. No. 1,336,899; Apr. 13; v. 273; p. 287.
Galloway, William F., Little Rock, Ark. Interest-computing device. No. 1,336,900; Apr. 13; v. 273; p. 287.
Gams, Alphons, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Allylester of the 2-phenylquinolin-4-carboxylic acid. No. 1,336,952; Apr. 13; v. 273; p. 297.
Garcia, José A., New York, N. Y. Jack-centering device. No. 1,337,065; Apr. 13; v. 273; p. 310.
Garford, Arthur L. (See Parkes, Walter, assignor.)
Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,337,011; Apr. 13; v. 273; p. 308.
General Electric Company. (See Carichoff, Eugene R., assignor.)
General Electric Company. (See Franklin, Milton W., assignor.)
General Electric Company. (See Quay, Emile J., assignor.)
General Electric Company. (See Hobart, Henry M., assignor.)
General Electric Company. (See Hutt, Leonard E., assignor.)
General Electric Company. (See Krone, Ward E., assignor.)
General Electric Company. (See Pacz, Aladar, assignor.)
General Electric Company. (See Rice, Chester S., assignor.)
General Electric Company. (See Standerwick, Reginald G., assignor.)
General Electric Company. (See Stone, C. W., and Hobart, assignors.)
General Electric Company. (See Templeton, William B., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
Gensmer, Theodore, and G. F. Lieberman, assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Machine for effecting orderly distribution of articles. No. 1,336,778; Apr. 13; v. 273; p. 263.
Gerber, Otto, Witten-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Ceramic composition. No. 1,336,740; Apr. 13; v. 273; p. 256.
Gerbig, Philip M., Alton, assignor of one-half to F. O. White, Belleville, Ill. Vehicle-awning. No. 1,336,953; Apr. 13; v. 273; p. 297.
Gherardi, Bancroft, Bayhead, N. J., assignor to American Telephone and Telegraph Company. Anti-abrasion cable-support. No. 1,336,558; Apr. 13; v. 273; p. 221.
Gibson, Angus H., Salt Lake City, Utah. Centrifugal machine. No. 1,336,779; Apr. 13; v. 273; p. 263.
Gibson, Lewis, *et al.* (See Ash, Richard L., assignor.)
Gielen, Peter G., Paterson, N. J. Loom. No. 1,336,741; Apr. 13; v. 273; p. 256.
Gillies, Robert A., Calgary, Alberta, Canada. Collapsible table-top. No. 1,336,954; Apr. 13; v. 273; p. 297.
Gilson, J. E., Company. (See Gilson, John, Sr., assignor.)
Gilson, John, Sr., assignor to J. E. Gilson Company, Port Washington, Wis. Adjustable weeder. No. 1,336,623; Apr. 13; v. 273; p. 233.
Golanke, Alexander S., Milwaukee, Wis. Copy-holder. No. 1,336,834; Apr. 13; v. 273; p. 274.
Goldberg, Solomon H., Chicago, Ill. Retreading tires. No. 1,336,624; Apr. 13; v. 273; p. 234.
Goodwin, George, Newtown, assignor to G. H. Lyster, Wellington, New Zealand. Bedstead. No. 1,337,012; Apr. 12; v. 273; p. 308.
Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
Gorton, Arthur C., and G. R. Carr, Titusville, Pa. Filter. No. 1,337,066; Apr. 13; v. 273; p. 319.
Gothner, John, assignor of one-fifth to E. W. Cook, one-fifth to W. R. Hallem, one-fifth to J. Haney, and one-fifth to S. L. Perrin, Superior, Wis. Oil and dust guard for journal-box. No. 1,336,428; Apr. 13; v. 273; p. 196.
Gould Coupler Company. (See Creveling, John L., assignor.)
Gould, Frederick J., London, and E. S. Stamp, Birmingham, England. Shade-support for gas-burners and electric lights. No. 1,336,835; Apr. 13; v. 273; p. 274.
Gould, Harry M., Portland, Me. Garment-hanger. No. 1,336,429; Apr. 13; v. 273; p. 197.
Grant, Charles W. (See Braden, R. D., and Grant.)
Grant, Denison W., assignor to Foco Oil Company, Franklin, Pa. Cooler. No. 1,336,742; Apr. 13; v. 273; p. 256.
Gray, Chester E. (See Rew, William O., assignor.)
Grant, Gideon, *et al.* (See Weston, A. H., and Peters, assignors.)
Gromes, Adam J., Sinking Spring, Pa. Limb and foot brace. No. 1,336,695; Apr. 13; v. 273; p. 248.

Grover, Charles, Gravesend, assignor to W. T. Henley's Telegraph Works Company, Limited, London, England. Distribution of electrical energy. No. 1,337,129; Apr. 13; v. 273; p. 330.

Groves, Cecil D., Thornton Heath; E. H. Jarvis, London, and H. W. Bradbury, Wallington, England. Means for automatically securing sliding window-sashes. No. 1,336,696; Apr. 13; v. 273; p. 248.

Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Machine for making blanks for gears, rolls, &c., from spinnable textile fibers. No. 1,337,067; Apr. 13; v. 273; p. 519.

Guerreschi, Eraldo. (See Almagia L., and Guerreschi.)

Gumm, Gustave J., Superior, Wis. Electric garage-protector. No. 1,336,625; Apr. 13; v. 273; p. 234.

Gustafson, Carl J., assignor to Hendee Manufacturing Company, Springfield, Mass. Splash lubricating system for gas-engines. No. 1,337,013; Apr. 13; v. 273; p. 308.

Gustafson, George H., Joliet, Ill. Window-sash attachment. No. 1,336,430; Apr. 13; v. 273; p. 197.

Gutzwiller, Herbert, Schönenwerd, Switzerland. Electric internal tube-heater. No. 1,336,559; Apr. 13; v. 273; p. 221.

Haas, Charles, Brooklyn, N. Y. Time-measuring device. No. 1,337,014; Apr. 13; v. 273; p. 309.

Hagan, George J., Company. (See Costello, Thomas J., assignor.)

Haines, George B., Chicago, Ill. Fire-extinguisher and the like. No. 1,337,130; Apr. 13; v. 273; p. 330.

Hake, George, St. Louis, Mo. Garment-supporter. No. 1,337,131; Apr. 13; v. 273; p. 331.

Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Safety-nut. No. 1,336,955; Apr. 13; v. 273; p. 297.

Hale, Henry J. (See Davies, J., Jones, and Hale.)

Hall, Albert N., Oak Park, Ill. Toy constructing material. No. 1,336,626; Apr. 13; v. 273; p. 234.

Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,560; Apr. 13; v. 273; p. 221.

Hall, William E. (See La Rue, William E., assignor.)

Hallem, William R., *et al.* (See Gothner, John, assignor.)

Halter, William, Cleveland, Ohio. Combination socket and adapter. No. 1,336,431; Apr. 13; v. 273; p. 197.

Hamrock, Louis F. (See Murar, M. S., and Hamrock.)

Handelan, Daniel, Aberdeen, S. D. Hot-air heating system. No. 1,336,901; Apr. 13; v. 273; p. 287.

Haney, John, *et al.* (See Gothner, John, assignor.)

Haney, Robert L., Elkmont, Ala. Wagon-brake. No. 1,336,956; Apr. 13; v. 273; p. 298.

Hannam, William J., Springfield, Ohio. Trailer for camping purposes. No. 1,336,627; Apr. 13; v. 273; p. 234.

Hanson, Swan. (See Olson, A., and Hanson.)

Harden, Jacob L., North Platte, Nebr. Plunger-rod for spring-wheels. No. 1,337,068; Apr. 13; v. 273; p. 319.

Harker, Harry A. (See Deakins, G. C., and Harker.)

Harpst, Frederick E., Houston, Tex. Testing device. No. 1,337,132; Apr. 13; v. 273; p. 331.

Harris, Moses H., New York, N. Y. Vending-machine. No. 1,336,743; Apr. 13; v. 273; p. 257.

Harter, Al, Los Angeles, Calif. Amalgamator. No. 1,336,697; Apr. 13; v. 273; p. 248.

Harvey, Corbin L., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Paper-support for combined adding and typewriting machines. No. 1,336,836; Apr. 13; v. 273; p. 275.

Hawk, Wayne K. (See Irwin, H. W., and Hawk.)

Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,336,837; Apr. 13; v. 273; p. 275.

Haynes Stellite Company. (See Udy, Marvin J., assignor.)

Healy, Daniel L., San Francisco, Calif. Plowing and seeding apparatus. No. 1,336,902; Apr. 13; v. 273; p. 288.

Heidenburg, Oscar F., Pittsburgh, Pa., assignor to F. O. Moburg, Toledo, Ohio. Dry lime and sulfur product and making same. No. 1,336,957; Apr. 13; v. 273; p. 298.

Heenan & Froude. (See Wheal, Walter, assignor.)

Heeter, Thomas E., assignor to Wm. Waltke & Company, St. Louis, Mo. Wrapping, cartoning, and packing machine. No. 1,336,838; Apr. 13; v. 273; p. 275.

Heideman, Fred J., assignor, by mesne assignments, to P. M. Fowl, H. R. Krueger, C. E. French, and F. J. Heideman, Detroit, Mich. Thermostat. No. 1,336,518; Apr. 13; v. 273; p. 215.

Heinkel, Christian F., Cleveland, Ohio. Boring and reaming tool. No. 1,337,015; Apr. 13; v. 273; p. 309.

Helgerson, Thomas O., Minneapolis, Minn. Grain-separator. No. 1,336,958; Apr. 13; v. 273; p. 298.

Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of motor control. No. 1,336,561; Apr. 13; v. 273; p. 221.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,336,562; Apr. 13; v. 273; p. 222.

Hendee Manufacturing Company. (See Gustafson, Carl J., assignor.)

Henderson, Albert, Jersey City, N. J. Napkin-holder. No. 1,336,744; Apr. 13; v. 273; p. 257.

Henley's, W. T., Telegraph Works Company. (See Grover, Charles, assignor.)

Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellent powder and making same. No. 1,336,463; Apr. 13; v. 273; p. 203.

Henriksen, Lars J., Kållinge, Sweden. Machine for joining of pieces of leather. No. 1,337,069; Apr. 13; v. 273; p. 320.

Henry, Eugene E., Stockton, Calif. Hacksaw-grinder. No. 1,336,959; Apr. 13; v. 273; p. 298.

Henry, William J., Akron, Ohio. Device for mechanically aiding the hand in writing. No. 1,336,432; Apr. 13; v. 273; p. 197.

Henschel, Charles J., Brooklyn, N. Y. Electrically-operated vibratory motor. No. 1,336,519; Apr. 13; v. 273; p. 213.

Hertner Electric Company, The. (See Hertner, John H., assignor.)

Hertner, John H., Lakewood, assignor, by meane assignments, to The Hertner Electric Company, Cleveland, Ohio. Protecting means for dynamo-electric machines. No. 1,336,520; Apr. 13; v. 273; p. 213.

Hestley, Walter W., Greensboro, N. C. Loom picker-stick check. No. 1,337,070; Apr. 13; v. 273; p. 320.

Heywood Brothers and Wakefield Company. (See Lang, E. C., and Van Derveer, assignors.)

Hickey, Timothy W., Abington, Mass. Hinge. No. 1,336,780; Apr. 13; v. 273; p. 264.

Hill, Melvin E., Los Angeles, Calif. Match-lighter. No. 1,336,698; Apr. 13; v. 273; p. 248.

Hilton, Fred, Manchester, England. Coin-freed-stamping apparatus. No. 1,336,960; Apr. 13; v. 273; p. 298.

Hirschy, Herman C., Minneapolis, Minn. Washing-machine. No. 1,336,781; Apr. 13; v. 273; p. 264.

Hitchcock, Halbert K., Pittsburgh, Pa. Apparatus for applying abrasives to grinding and smoothing mechanism. No. 1,336,521; Apr. 13; v. 273; p. 213.

Hobart, Henry M. (See Stone, C. W., and Hobart.)

Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,071; Apr. 13; v. 273; p. 320.

Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Governing mechanism for compound engines. No. 1,337,176; Apr. 13; v. 273; p. 339.

Hoe, R., and Co. (See Sheldon, Edward P., assignor.)

Hoffmann-La Roche Chemical Works, The. (See Court, Georges T., assignor.)

Holland, Albert, Fargo, N. D. Automatic reversible fan for explosive-engines. (Reissue.) No. 14,838; Apr. 13; v. 273; p. 340.

Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)

Holt Manufacturing Company, The. (See Turnbull, William, assignor.)

Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. No. 1,336,961; Apr. 13; v. 273; p. 298.

Hoofnagle, Charles H., Laporte, Ind. Thread-holder. No. 1,336,903; Apr. 13; v. 273; p. 288.

Hopkins, Hubert, assignor to Moon-Hopkins Billing Machine Co., St. Louis, Mo. Calculating-machine. No. 1,336,904; Apr. 13; v. 273; p. 288.

Hopkins, Walter G., Buffalo, N. Y., and F. J. Sullivan, assignors to Atlas Bread Company, Boston, Mass. Baker's oven. No. 1,336,782; Apr. 13; v. 273; p. 264.

Howard, Raymond M., Detroit, Mich. Variable-pitch propeller. No. 1,337,133; Apr. 13; v. 273; p. 331.

Hudson, George W., Lancaster, Ohio. Combined table and ironing-board. No. 1,336,433; Apr. 13; v. 273; p. 197.

Hughes, James W., Haddon Heights, N. J., assignor to Hughes-Lippincott Company. Coin-controlling register. No. 1,336,628; Apr. 13; v. 273; p. 234.

Hughes-Lippincott Company. (See Hughes, James W., assignor.)

Hull, George S., Columbus, Ind. Quick-setting mechanism. No. 1,336,839; Apr. 13; v. 273; p. 275.

Humbert, Richard E., Montclair, N. J. Toy. No. 1,336,434; Apr. 13; v. 273; p. 197.

Hunter Gas Engine and Development Company, The. (See Kershaw, Edwin T., assignor.)

Huntley Manufacturing Co. (See Morse, Theodore F., assignor.)

Hunzicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Slack-adjuster. No. 1,336,522; Apr. 13; v. 273; p. 214.

Hunzicker, Walter W., Mansfield, Ohio. Method and apparatus for preventing and removing obstructions in fluid-pressure systems. No. 1,336,905; Apr. 13; v. 273; p. 288.

Hurford, Ross H., Canton, Ohio. Ice-cutting machine. No. 1,336,563; Apr. 13; v. 273; p. 222.

Hutt, Leonard E., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,337,072; Apr. 13; v. 273; p. 320.

Hydraulic Clutch Company. (See Jessen, Arnold H., assignor.)

Hydraulic Pressed Steel Company, The. (See Klaus, Fred R., assignor.)

Hydraulic Pressed Steel Company, The. (See Staples, Edward C., assignor.)

India Rubber Company. (See Foley, William V., assignor.)

Individual Drinking Cup Company. (See Luellen, Lawrence W., assignor.)

International Cork Company. (See Allatt, Thomas, assignor.)

International Harvester Company. (See Cady, Sherman W., assignor.)

International Harvester Company. (See Dwyer, William C., assignor.)

Interstate Oil and Equipment Corporation. (See Carden, David A., assignor.)

Ironside, Edward A., London, England. Pliers. No. 1,336,464; Apr. 13; v. 273; p. 203.

Irwin, Howard W., and W. K. Hawk, Philadelphia, Pa. Theft-detecting means for vehicles. No. 1,336,745; Apr. 13; v. 273; p. 257.

Isko Company, The. (See Wolf, Fred W., assignor.)

Ivey, John D. C., Fitzgerald, Ga. Brake. No. 1,336,435; Apr. 13; v. 273; p. 198.

Ivory, James W., Philadelphia, Pa. Rubber-dam-clamp appliance. No. 1,336,746; Apr. 13; v. 273; p. 257.

Jackson, Walter C., Denver, Colo. Ironing-board fastener. No. 1,337,073; Apr. 13; v. 273; p. 320.

Jacques, George L., Neillsville, Wis. Power transmission. No. 1,336,747; Apr. 13; v. 273; p. 257.

Jahns, William, Marathon, Wis. Grain-bag holder. No. 1,337,134; Apr. 13; v. 273; p. 331.

Jarvis, Edward H. (See Groves, C. D., Jarvis, and Bradbury.)

Jenkins, David W., Seattle, Wash., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Detachable-tooth saw. No. 1,337,016; Apr. 13; v. 273; p. 309.

Jenkins, Jennie A., executrix. (See Jenkins, Thomas W.)

Jenkins, Thomas W., deceased, Philadelphia, Pa.; J. A. Jenkins executrix. Elevator interlocking device. No. 1,336,748; Apr. 13; v. 273; p. 257.

Jennings, Oliver S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mechanical rectifier and means for improving the operation of the same. No. 1,336,564; Apr. 13; v. 273; p. 222.

Jessen, Arnold H., assignor to Hydraulic Clutch Company, Los Angeles, Calif. Variable-speed power-transmitting device. No. 1,336,749; Apr. 13; v. 273; p. 258.

Jester, Ernest R., Walton, N. Y. Plastic mold. No. 1,337,074; Apr. 13; v. 273; p. 320.

Johantgen, Oliver D., assignor, by mesne assignments, to The Victor Adding Machine Company, Chicago, Ill. Listing-machine. No. 1,336,840; Apr. 13; v. 273; p. 275.

Johnson, Felix G., Clarinda, Iowa, assignor of one-half to M. E. Johnson. Stock-watering tank. No. 1,337,075; Apr. 13; v. 273; p. 321.

Johnson, Lawrence E., assignor to M. S. Johnson, Melrose, Mass. Lifting-jack. No. 1,336,906; Apr. 13; v. 273; p. 288.

Johnson, Martha E. (See Johnson, Felix G., assignor.)

Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)

Johnson, Robert W., and J. Bloom, Blue Island, Ill. Sprinkler. No. 1,336,699; Apr. 13; v. 273; p. 248.

Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,337,135; Apr. 13; v. 273; p. 331.

Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,337,136; Apr. 13; v. 273; p. 332.

Johnston, William H., Raleigh, N. C. Portable fireplace heating-stove. No. 1,336,700; Apr. 13; v. 273; p. 248.

Jones, Whitman G., Great Falls, Mont. Sidewalk-plow. No. 1,337,076; Apr. 13; v. 273; p. 321.

Jones, William H. (See Davies, J., Jones, and Hale.)

Joseph, Frank A., New Haven, Conn., assignor to L. Candee & Co. Rubber shoe. No. 1,336,962; Apr. 13; v. 273; p. 299.

Joseph, Orville E., Moose Jaw, Saskatchewan, Canada. Road recorder and indicator. No. 1,336,907; Apr. 13; v. 273; p. 289.

Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Railway-car. No. 1,336,436; Apr. 13; v. 273; p. 198.

Juricich, Josip, Pittsburgh, Pa. Self-leveling basket for aeroplanes. No. 1,336,702; Apr. 13; v. 273; p. 249.

Kammerer, Firm of Fr. (See Trunk, Rudolf, assignor.)

Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)

Kaplan, Henry, San Francisco, Calif. Switch face-plate and lock. No. 1,337,137; Apr. 13; v. 273; p. 332.

Kaps, Richard A., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Steering reach-rod. No. 1,337,138; Apr. 13; v. 273; p. 332.

Karpinski, Roman, Export, Pa. Beehive. No. 1,336,523; Apr. 13; v. 273; p. 214.

Kaynee Company, The. (See Oathout, Charles E., assignor.)

Keables, Albert E., San Francisco, Calif. Combination concentrator and classifier. No. 1,336,963; Apr. 13; v. 273; p. 299.

Kellan, Edward L., Chicago, Ill. Flush-valve. No. 1,337,177; Apr. 13; v. 273; p. 339.

Kellogg Switchboard and Supply Company. (See Cassaday, Ormond F., assignor.)

Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Printing-press. No. 1,336,841; Apr. 13; v. 273; p. 276.

Kelsey, Richard, Lynn, Mass. Penholder-support. No. 1,336,964; Apr. 13; v. 273; p. 299.

Kenney, Joseph C., Scottdale, Pa. Mechanism support for talking-machines. No. 1,336,842; Apr. 13; v. 273; p. 276.

Kenworthy, Abel, Waterbury, Conn. Collapsible block. No. 1,337,017; Apr. 13; v. 273; p. 309.

Kermath, James, Detroit, Mich. Center. No. 1,336,843; Apr. 13; v. 273; p. 276.

Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Internal-combustion engine. No. 1,337,077; Apr. 13; v. 273; p. 321.

Kester, James A., Gastonia, N. C., assignor of one-half to H. M. Clemmer, Dallas, N. C. Roll-traverse. No. 1,336,703; Apr. 13; v. 273; p. 249.

Ketler, William H., assignor of one-third to H. C. Engel, Camden, N. J. Toasting and boiling device. No. 1,336,565; Apr. 13; v. 273; p. 222.

Kiefer, John M., Jr., assignor to Splitdorf Electrical Company, Newark, N. J. Electric-cable-connecting means. No. 1,336,437; Apr. 13; v. 273; p. 198.

Kimbark, Eugene U., Evanston, Ill. Fastening device. No. 1,336,629; Apr. 13; v. 273; p. 234.

Kimmel, George C., assignor to The Cincinnati Grinder Company, Cincinnati, Ohio. Grinding-machine. No. 1,337,139; Apr. 13; v. 273; p. 332.

Kimmel, George C., assignor to The Cincinnati Grinder Company, Cincinnati, Ohio. Grinding-machine. No. 1,337,140; Apr. 13; v. 273; p. 332.

Kirchner, Arthur W., assignor of one-half to G. J. Pille, Denver, Colo. Running-board and fender-support for automobiles. No. 1,337,078; Apr. 13; v. 273; p. 321.

Kirk, Benjamin K. (See Deans, F. B., and Kirk.)

Kirkham, Charles B., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aeronautical motor. No. 1,336,704; Apr. 13; v. 273; p. 249.

Kirkpatrick, George W., Rochester, N. Y. Guard for digging implements. No. 1,336,630; Apr. 13; v. 273; p. 235.

Kissinger, George A., Alhambra, Calif. Cold-chisel. No. 1,336,631; Apr. 13; v. 273; p. 235.

Klaus, Fred R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Wire-wheel rim and making same. No. 1,336,965; Apr. 13; v. 273; p. 299.

Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeroplane-control mechanism. No. 1,336,632; Apr. 13; v. 273; p. 235.

Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Landing-gear for aircraft. No. 1,336,633; Apr. 13; v. 273; p. 235.

Kleckler, Henry, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Flying-boat. No. 1,336,634; Apr. 13; v. 273; p. 235.

Klonsnitzer, Frank, Crafton, assignor of one-half to R. Sommer, Pittsburgh, Pa. Crutch. No. 1,336,844; Apr. 13; v. 273; p. 276.

Knapp, E. J., Candle and Wax Co. Inc. (See Knapp, Edward J., assignor.)

Knapp, Edward J., assignor to E. J. Knapp, Candle and Wax Co. Inc., Syracuse, N. Y. Sanctuary-lamp. No. 1,336,633; Apr. 13; v. 273; p. 235.

Knox, William J., Dubois, Pa. Drop stake-loop. No. 1,336,636; Apr. 13; v. 273; p. 236.

Kobayashi, Kanjiro, Tokyo, Japan. Steel-ball-making machine. No. 1,337,079; Apr. 13; v. 273; p. 321.

Kolar, Adam, Millfield, Ohio. Ash-sifter. No. 1,336,637; Apr. 13; v. 273; p. 236.

Kozak, John, Milwaukee, Wis. Trolley-retriever. No. 1,336,966; Apr. 13; v. 273; p. 299.

Kraetsch, Paul H., Astoria, Oreg. Leafless photograph-album. No. 1,336,438; Apr. 13; v. 273; p. 198.

Kramer, Louis A., Chicago, Ill. Carcass-dehairing machine. No. 1,336,524; Apr. 13; v. 273; p. 214.

Krone, Ward E., Pittsfield, Mass., assignor to General Electric Company. Multiconducting leads. No. 1,337,080; Apr. 13; v. 273; p. 322.

Krueger, Henry, *et al.* (See Heideman, Fred J., assignor.)

Kuhn, Clarence A., Forks, N. Y. Crank-shaft. No. 1,337,081; Apr. 13; v. 273; p. 322.

Kutchka, Karl G., Youngstown, Ohio. Rotary engine or pump. No. 1,336,845; Apr. 13; v. 273; p. 277.

Kutwlcz, Frank, Regina, Saskatchewan, Canada. Collapsible cane. No. 1,336,638; Apr. 13; v. 273; p. 236.

La Chapelle, Euclid I., Brockton, Mass. Shoe-turning machine. No. 1,336,750; Apr. 13; v. 273; p. 258.

La Count, Eldridge I. (See Prince, B. A., and La Count.)

La Count, Eldridge I., assignor to Orcutt Automatic Train Control Company, Worcester, Mass. Apparatus for electrically controlling air-brakes. No. 1,336,465; Apr. 13; v. 273; p. 203.

Laird, John H., assignor to Laird Manufacturing Company, Louisville, Ky. Automobile-headlight. No. 1,336,967; Apr. 13; v. 273; p. 300.

Laird Manufacturing Company. (See Laird, John H., assignor.)

Lamb, Joseph M., Fazakerley, near Liverpool, England. Tool-holder or tool. No. 1,336,466; Apr. 13; v. 273; p. 203.

Lamme, Benjamin G., and W. Sykes, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Speed-control system for induction-motors. No. 1,336,566; Apr. 13; v. 273; p. 222.

Lang, Edward C., Melrose, and C. A. Van Derveer, Wakefield, Mass., assignors to Heywood Brothers and Wakefield Company. Upholstered seat-cushion. No. 1,336,525; Apr. 13; v. 273; p. 214.

Lapham, Ralph E., San Francisco, Calif. Centrifugal separating-machine. No. 1,336,968; Apr. 13; v. 273; p. 300.

Larned, Carter & Company. (See Carter, David S., assignor.)

La Rock, Barney, Kansas City, Mo. Safety-razor. No. 1,336,969; Apr. 13; v. 273; p. 300.

La Rue, Willis E., assignor of one-half to W. P. Hall, Indianapolis, Ind. Faucet. No. 1,336,970; Apr. 13; v. 273; p. 300.

Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Producing hydrochloric acid utilizing sludge acid. No. 1,337,141; Apr. 13; v. 273; p. 332.

Latham Automatic Registering Company. (See Sauter, Herman, assignor.)

Lathrop, Harry D., and W. H. Paulson, Chicago, Ill; said Paulson assignor to said Lathrop. Can-reversing mechanism for can-washing machines. No. 1,336,567; Apr. 13; v. 273; p. 223.

Lathrop, Harry D., Chicago, Ill. Carrier for can-washing machines. No. 1,336,568; Apr. 13; v. 273; p. 223.

Lathrop, Harry D., Chicago, Ill. Cargo-stop. No. 1,336,569; Apr. 13; v. 273; p. 223.

Lathrop, Harry D., and W. H. Paulson, Chicago, Ill.; said Paulson assignor to said Lathrop. Can-washing machine. No. 1,336,570; Apr. 13; v. 273; p. 223.

Lauterbur, Frank X., Sidney, Ohio. Reversible double-speed, friction and gear drive for dough-mixers. No. 1,336,783; Apr. 13; v. 273; p. 264.

Law, Herbert E., and E. Pooler, San Francisco, Calif. Lath-weaving machine. No. 1,336,908; Apr. 13; v. 273; p. 289.

Lawson, Albert F. (See Lockey, G. B., and Lawson.)

Lees, Thomas R. (See Wallace, J., and Lees.)

Lefteruk, William, Gonor, Manitoba, Canada. Potato-peeler. No. 1,336,526; Apr. 13; v. 273; p. 214.

Lemke, August C., and L. L. Almeter, Wabasha, Minn. Wire stretcher and winder. No. 1,337,142; Apr. 13; v. 273; p. 333.

Lemoine, David, and G. P. Fournier, Whitinsville, Mass. Spindle. No. 1,336,467; Apr. 13; v. 273; p. 203.

Lengel, Irvin D., and S. S. Shears, Reading, Pa.; said Lengel assignor to said Shears. Vehicle-spring. No. 1,336,468; Apr. 13; v. 273; p. 204.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Film-moving mechanism. No. 1,336,639; Apr. 13; v. 273; p. 236.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Film-magazine. No. 1,336,640; Apr. 13; v. 273; p. 236.

Lessmann, Herbert F., Wayne, Nebr. Loading-machine. No. 1,337,082; Apr. 13; v. 273; p. 322.

Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Automatic weighing device. No. 1,336,705; Apr. 13; v. 273; p. 249.

Levene, Albert H., Philadelphia, Pa. Adjustable shelving. No. 1,336,971; Apr. 13; v. 273; p. 300.

Levene, Albert H., Philadelphia, Pa. Tote-box. No. 1,336,972; Apr. 13; v. 273; p. 300.

Levene, Albert H., Philadelphia, Pa. Movable platform. No. 1,336,973; Apr. 13; v. 273; p. 301.

Levin, Bertram, Hale, England. Manufacture of a boron derivative of pyrophospheric acid. No. 1,336,974; Apr. 13; v. 273; p. 301.

Lewis, Edward G. (See Doe, Loring B., assignor.)

Lewis, John V. (See Fowler, E., and Lewis.)

Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-controlled deadlocking device. No. 1,337,083; Apr. 13; v. 273; p. 322.

Lewis, Seneca G., Greensburg, and G. W. Daum, Jeannette, Pa. Buffer. No. 1,336,527; Apr. 13; v. 273; p. 215.

Lewis, Thomas E., Penygraig, Rhondda, Wales. Engine. No. 1,336,846; Apr. 13; v. 273; p. 277.

Lewis, Thomas E., Rhondda, Wales. Motion-converting device. No. 1,336,847; Apr. 13; v. 273; p. 277.

Libenschek, Rudolf, Pittsburgh, assignor of one-half to S. Lovrencic, Bellevue, Pa. Device for holding bolts of transmission-cases. No. 1,337,084; Apr. 13; v. 273; p. 322.

Liberty Radiator Company. (See Coffelder, Thomas H., assignor.)

Lieberman, George F. (See Gensmer, T., and Lieberman.)

Linbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Ceramic article. No. 1,336,751; Apr. 13; v. 273; p. 258.

Linke, Victor F., West New York, N. J. Theater-chair. No. 1,336,641; Apr. 13; v. 273; p. 236.

Lloyd, Marshall B., Menominee, Mich. Method of and means for binding the edges of reed fabric and the like. No. 1,336,571; Apr. 13; v. 273; p. 223.

Lock Stub Check Company. (See Potter, Thomas R. F., assignor.)

Lockard, James S., Landrum, S. C. Wagon-brake. No. 1,336,909; Apr. 13; v. 273; p. 289.

Locke, William C. (See Dreyling, A., and Locke.)

Lockey, George B., and A. F. Lawson, Pittsburgh, Pa. Thread-gage. No. 1,337,018; Apr. 13; v. 273; p. 309.

Logan, Nels., Albert Lea, Minn. Cattle-stanchion. No. 1,336,975; Apr. 13; v. 273; p. 301.

Long, Willard O., Mansfield, Ohio. Harrow. No. 1,336,642; Apr. 13; v. 273; p. 237.

Loose-Wiles Biscuit Company. (See Wachtel, William W., assignor.)

Lovrencic, Slavko. (See Libenschek, Rudolf, assignor.)

Low, John W., Joliet, Ill. Method of and apparatus for coating paper-board with paraffin or the like. No. 1,336,528; Apr. 13; v. 273; p. 215.

Lowe, William H. (See Plettner, O. L., and Lowe.)

Lowry, Jesse R., St. Joseph, Mo. Differential for self-propelling vehicles. No. 1,336,643; Apr. 13; v. 273; p. 237.

Luck, Charles A., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Fountain-pen. No. 1,336,572; Apr. 13; v. 273; p. 223.

Luellen, Lawrence W., New York, N. Y., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing apparatus. No. 1,336,469; Apr. 13; v. 273; p. 204.

Lundmark, Lars A., Loraine, Wis. Punch. No. 1,336,529; Apr. 13; v. 273; p. 215.

Luttrell, John D., Benton Harbor, Mich., assignor to Service Carbide Lamp Company, Terre Haute, Ind. Acetylene-gas generator. No. 1,336,573; Apr. 13; v. 273; p. 224.

Lyster, Gilbert H. (See Goodwin, George N., assignor.)

McArthur, Charles H., Cleveland, Ohio. Separating-machine. No. 1,336,848; Apr. 13; v. 273; p. 277.

McArthur, Clyde E. (See Schmidt, J. E., and McArthur.)

McBride, Bert, Ada, Ohio. Bag-holder. No. 1,336,530; Apr. 13; v. 273; p. 215.

McCaffrey, Andrew A., Providence, R. I. Garment-hanger. No. 1,336,849. Apr. 13; v. 273; p. 277.

McCarthy, John M., Chicago, Ill. License-indicator. No. 1,336,706; Apr. 13; v. 273; p. 250.

McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Tenoning and equalizing machine. No. 1,337,143; Apr. 13; v. 273; p. 333.

McComb, William M., assignor to W. J. Patterson, trustee, New York, N. Y. Converting liquid hydrocarbons. No. 1,337,144; Apr. 13; v. 273; p. 333.

McCready, George L., Parksley, Va. Vine-cutter. No. 1,336,976; Apr. 13; v. 273; p. 301.

McCurdy, Arville E., Washington, D. C. Automobile-signal. No. 1,336,644; Apr. 13; v. 273; p. 237.

McDonald, Stephen F., Cleveland, Ohio. Ventilator. No. 1,336,470; Apr. 13; v. 273; p. 204.

McGirr, Alexander F., Metcalfe, Ontario, Canada. Barn. No. 1,336,471; Apr. 13; v. 273; p. 204.

McMains, John V., Dayton, Ohio. Osteopathic table. No. 1,337,145; Apr. 13; v. 273; p. 333.

McManus, James P. (See Breckenridge, George M., assignor.)

Macfadden, Bernarr, New York, N. Y. Spine-exerciser. No. 1,336,910; Apr. 13; v. 273; p. 289.

Mack, Joe S., Calipatria, Calif. Wagon-reach. No. 1,336,645; Apr. 13; v. 273; p. 237.

Maier, Fred, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Retreading tires. No. 1,336,911; Apr. 13; v. 273; p. 289.

Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)

Mallett, Gerald G., Princeton, Ark. Handle-securing means. No. 1,336,707; Apr. 13; v. 273; p. 250.

Malys, Joseph B., East Youngstown, Ohio. Safety-lock. No. 1,337,085; Apr. 13; v. 273; p. 322.

Mandel Corporation, The. (See Bell, R. T., and Mandel, assignors.)

Mandel, Louis. (See Bell, R. T., and Mandel.)

Manley, Robert E., York, Pa. Engine-stand. No. 1,336,912; Apr. 13; v. 273; p. 289.

Manning, Arthur H., Colorado Springs, Colo. Automatic clutch. No. 1,336,472; Apr. 13; v. 273; p. 204.

Manternach, John C., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,336,531; Apr. 13; v. 273; p. 215.

Mardis, Paul L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,574; Apr. 13; v. 273; p. 224.

Marsh, Chester A., Bay City, Mich. Hydroaero-machine. No. 1,336,473; Apr. 13; v. 273; p. 204.

Marshall, James F., Auburn, assignor of one-half to Dunn & McCarthy, Binghamton, N. Y. Shoe and making same. No. 1,336,784; Apr. 13; v. 273; p. 265.

Marshall, Stanley G., Hebbronville, Tex. Lens-holder. No. 1,337,086; Apr. 13; v. 273; p. 323.

Maschino, John A. (See Fium, E. L., and Maschino.)

Matter, Albert J., and F. V. Conley, assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Machine for effecting orderly distribution of articles, particularly buttons. No. 1,336,785; Apr. 13; v. 273; p. 265.

Matter, Albert J., Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company. Machine for attaching staples and particularly for attaching buttons to articles. No. 1,336,786; Apr. 13; v. 273; p. 265.

Matter, Albert J., Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company. Button-attaching machine. No. 1,336,787; Apr. 13; v. 273; p. 265.

Matthews, Vernon, Carthage, Mo. Tractor-hitch. No. 1,336,474; Apr. 13; v. 273; p. 265.

Matz, Adline M., Valley City, N. D. Hatbox. No. 1,337,087; Apr. 13; v. 273; p. 323.

Mauerhofer, Louis, Paris, France. Autoclave-tray for cooking glue. No. 1,337,146; Apr. 13; v. 273; p. 333.

Maxim, Hosea F., assignor of one-half to O. Wells, Norfolk, Va. Connector for electrical conductors. No. 1,336,850; Apr. 13; v. 273; p. 278.

May, Benjamin. (See Codos, J., and May.)

Mayne, John A. (See Fisher, Olive, assignor.)

Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Electrical connector. No. 1,336,475; Apr. 13; v. 273; p. 205.

Mecky, A., Company. (See Papini, Antonio, assignor.)

Mendenhall, John J., Clearwater, Fla. Safety-envelop. No. 1,336,646; Apr. 13; v. 273; p. 237.

Mennen, Antone, Milwaukee, Wis. Railway-crossing signal. No. 1,336,913; Apr. 13; v. 273; p. 289.

Meredith-Jones, H., New York, N. Y. Safety centrifugal percussion base-fuse. No. 1,336,701; Apr. 13; v. 273; p. 249.

Messler, Eugene L. (See Bachr, G., and Messler.)

Metals Extraction Corporation, The. (See Field, Samuel, assignor.)

Metham, Henry H. (See Muckenfuss, Charles, assignor.)

Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Separating alkali cyanid from alkali carbonate. No. 1,337,019; Apr. 13; v. 273; p. 309.

Meyers, Charles E., Chicago, Ill. Device for operating furnace-doors. No. 1,336,476; Apr. 13; v. 273; p. 205.

Meyers, George W., Rahway, N. J., assignor to National Penumatic Company, New York, N. Y. Combined propelling-motor and door-operating mechanism for cars. No. 1,336,477; Apr. 13; v. 273; p. 205.

Milker, Herbert P., assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Air-filter. No. 1,337,020; Apr. 13; v. 273; p. 309.

Miller, John C., Covington, Ky., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Bottle feeding and moving mechanism. No. 1,336,788; Apr. 13; v. 273; p. 266.

Miller, John L., Fort Collins, Colo. Bank-check. No. 1,336,647; Apr. 13; v. 273; p. 238.

Miller, George W., San Francisco, Calif. Vending-machine. No. 1,336,478; Apr. 13; v. 273; p. 205.

Miller Pasteurizing Machine Company, The. (See Miller, John C., assignor.)

Misco, Steve, Gary, W. Va. Mail-bag catcher and deliverer. No. 1,336,851; Apr. 13; v. 273; p. 278.

Moburg, Frank O. (See Hedenburg, Oscar F., assignor.)

Modern Broom Machinery Company. (See Duvall, G. W., Beebe, and Smith, assignors.)

Moon-Hopkins Billing Machine Company. (See Harvey, Corbin L., assignor.)

Moon-Hopkins Billing Machine Co. (See Hopkins, Hubert, assignor.)

Moon-Hopkins, Billing Machine Company. (See Thieme, O., and Mueller, assignors.)

Moore, George F., Carman, Ill. Scaffold-Bracket. No. 1,337,088; Apr. 13; v. 273; p. 323.

Morison, Samuel B., Redlands, Calif. Fruit-picker. No. 1,336,648; Apr. 13; v. 273; p. 238.

Morris, Paul, Buffalo, N. Y. Machine for sawing, drilling, Grinding, &c. No. 1,337,147; Apr. 13; v. 273; p. 334.

Morse, Frank L., Ithaca, N. Y. Aeroplane control. No. 1,336,977; Apr. 13; v. 273; p. 301.

Morse, Theodore F., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Cherry-pitter. No. 1,336,852; Apr. 13; v. 273; p. 278.

Mossman, Benjamin, trustee. (See Starring, Alfred A., assignor.)

Mruk, Laudie J., Butte, Mont. Lubricator. No. 1,336,853; Apr. 13; v. 273; p. 278.

Muckenfuss, Charles, assignor of one-half to H. H. Metham, Cleveland, Ohio. Signal system. No. 1,337,021; Apr. 13; v. 273; p. 310.

Mueller, Frederick O. (See Thieme, O., and Mueller.)

Muhsgnug, Carl J. (See Fuligni, B., and Muhsgnug.)

Muller, John O., West Hoboken, N. J. Fastening device. No. 1,336,752; Apr. 13; v. 273; p. 258.

Munster, Harry J., San Diego, Calif. Spark-plug. No. 1,336,914; Apr. 13; v. 273; p. 290.

Murar, Michael S., and L. F. Hamrock, Youngstown, Ohio. Railway-joint. No. 1,336,915; Apr. 13; v. 273; p. 290.

Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,337,148; Apr. 13; v. 273; p. 334.

Murphy, A. (See Okum, Morris B., assignor.)

Murray, Carl, Curtis, Nebr. Rural-mail-box installation. No. 1,337,089; Apr. 13; v. 273; p. 323.

Murray, Herbert, *et al.* (See Ash, Richard L., assignor.)

Musson, Edward T., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Wire wrapping and winding machine. No. 1,336,649; Apr. 13; v. 273; p. 238.

Muther, Lorenz F., Newton, Mass. Positioning device for eyelet and hook setting machines. No. 1,336,854; Apr. 13; v. 273; p. 278.

Muther, Lorenz F., Newton, Mass. Eyeleting-machine. No. 1,336,855; Apr. 13; v. 273; p. 278.

Myers, Perry M., Lockeford, Calif. Combined differential and clutch transmission. No. 1,336,532; Apr. 13; v. 273; p. 216.

Mylins, Walter G. (See Bradshaw, W. M., and Mylins.)

Nalle, William C., *et al.* (See Simmons, James L., assignor.)

National Carbon Company. (See Benner, R. C., and French, assignors.)

National Cash Register Company, The. (See Fuller, Frederick L., assignor.)

National Motion Picture Camera Company, The. (See Leonard, John E., assignor.)

National Pneumatic Company. (See Meyers, George W., assignor.)

Neikirk, John O., Lombard, Ill. Draft mechanism. No. 1,337,090; Apr. 13; v. 273; p. 323.

Nelson, Erik W., New Rochelle, N. Y. Projector. No. 1,336,479; Apr. 13; v. 273; p. 206.

Nelson, Frederick, assignor of one-half to C. Esperson, Jamestown, N. Y. Leg extension. No. 1,336,480; Apr. 13; v. 273; p. 206.

Nelson, Nels S., and A. Boode, Lacombe, Alberta, Canada. Trap. No. 1,337,149; Apr. 13; v. 273; p. 334.

Neski, Chester W., Chicago, Ill. Paper receptacle. No. 1,337,091; Apr. 13; v. 273; p. 324.

Nettenstrom, David, Chicago, Ill. Auxiliary spring for motor-vehicles. No. 1,336,481; Apr. 13; v. 273; p. 206.

New Era Mfg. Company. (See Fanslow, Benjamin O., assignor.)

Newsham, Roy V., Seattle, Wash. Self-oiling handle for die-stocks. No. 1,336,575; Apr. 13; v. 273; p. 224.

Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Producing digging-teeth. No. 1,336,576; Apr. 13; v. 273; p. 224.

Nickerson, Carrie W., Los Angeles, Calif. Automobile-lock. No. 1,336,650; Apr. 13; v. 273; p. 238.

Nicolaysen, Ragnvald M., Detroit, Mich. Machine for grinding cutters, reamers, and like tools. No. 1,336,533; Apr. 13; v. 273; p. 216.

Nilson, Sven, Waterbury, Conn. Rope-clamp. No. 1,336,482; Apr. 13; v. 273; p. 206.

Noir, Marin, North Fayette township, Allegheny county, Pa. Rail-joint mechanism. No. 1,336,483; Apr. 13; v. 273; p. 206.

Nordmark, Herman, San Pedro, Calif. Airship. No. 1,336,651; Apr. 13; v. 273; p. 238.

Norma Company of America, The. (See Bott, George R., assignor.)

Northey, John P., *et al.* (See Weston, A. H., and Peters, assignors.)

Norton, Frank W., Minneapolis, Minn. Automobile-controlling device. No. 1,336,856; Apr. 13; v. 273; p. 279.

Nu Automatic Button Attaching Machine Company. (See Bammer, Pins, assignor.)

Nu Automatic Button Attaching Machine Company. (See Gensmer, T., and Lieberman, assignors.)

Nu Automatic Button Attaching Machine Company. (See Matter, A. J., and Conley, assignors.)

Nu Automatic Button Attaching Machine Company. (See Matter, Albert J., assignor.)

Nyholm, Peter, Edgewood, Wash. Extension-table. No. 1,337,092; Apr. 13; v. 273; p. 324.

Nysewander, David J., Toledo, Ohio. Heater. No. 1,336,753; Apr. 13; v. 273; p. 258.

Oathout, Charles E., assignor to The Kaynee Company, Cleveland, Ohio. Buttonhole-tape. No. 1,336,577; Apr. 13; v. 273; p. 224.

Ohio Brass Company, The. (See Bovard, William P., assignor.)

Ohio Brass Company, The. (See Brown, J. R., and Bolus, assignors.)

Ohio Brass Company, The. (See Brown, John R., assignor.)

Ohio Brass Company, The. (See Hunzicker, Walter W., assignor.)

Ohio Brass Company, The. (See Mead, George A., assignor.)

Ohio Brass Company, The. (See Starkey, William C., assignor.)

Okun, Morris B., assignor to A. Murphy, Chicago, Ill. Bed-post-fastener. No. 1,337,150; Apr. 13; v. 273; p. 334.

Olson, Anders, and S. Hanson, Galesburg, Ill. Corn-harvesting machine. No. 1,336,578; Apr. 13; v. 273; p. 225.

Orcutt Automatic Train Control Company. (See La Count, Eldridge I., assignor.)

Orcutt Automatic Train Control Company. (See Prince, B. A., and La Count, assignors.)

Osol, Fritz E. (See Barron, W. L., and Osol.)

Osterhage, Louis H., Vincennes, Ind. Automobile-tire tool. No. 1,336,916; Apr. 13; v. 273; p. 290.

Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car. No. 1,336,439; Apr. 13; v. 273; p. 198.

O'Toole, Edward, Gary, W. Va. Slabbing and loading machine. No. 1,336,440; Apr. 13; v. 273; p. 198.

Otto, Frank J., Detroit, Mich. Electric mail-indicator. No. 1,336,652; Apr. 13; v. 273; p. 239.

Ouzoun-Boghossian, Sissak K., Washington, D. C. Water-mixer. No. 1,336,917; Apr. 13; v. 273; p. 290.

Oversmith, Clarence D., Lima, Ohio. Controlling mechanism for electric switches. No. 1,337,022; Apr. 13; v. 273; p. 310.

Oxley, Herbert D., Chicago, Ill. Press for salt blocks and the like. No. 1,336,579; Apr. 13; v. 273; p. 225.

Oxweld Acetylene Company. (See Braden, R. D., and Grant, assignors.)

Pacific R & H Chemical Corporation, The. (See Cuyler, E. H., and Patterson, assignors.)

Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Paez, Aladar, Cleveland, Ohio, assignor to General Electric Company. Introducing materials into molten metal. No. 1,337,092; Apr. 13; v. 273; p. 324.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Rheostat. No. 1,336,918; Apr. 13; v. 273; p. 290.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,336,919; Apr. 13; v. 273; p. 291.
Pardee, Charles, Augusta, Me. Shock-absorber. No. 1,336,534; Apr. 13; v. 273; p. 216.
Park Manufacturing Company, The. (See Stubbs, Robert L., assignor.)
Parker, Harry J., assignor to S. Williams, San Francisco, Calif. Aeroplane. No. 1,337,151; Apr. 13; v. 273; p. 334.
Parkes, Walter, assignor to A. L. Garford, Elyria, Ohio. Camera. No. 1,336,441; Apr. 13; v. 273; p. 199.
Parmelee, Roy, Chicago, Ill. Vise. No. 1,336,754 Apr. 13; v. 273; p. 259.
Parmelee, Roy, Chicago, Ill. Vise. No. 1,336,755; Apr. 13; v. 273; p. 259.
Parr, George T., St. Paul, Minn. Trellis. No. 1,336,580; Apr. 13; v. 273; p. 225.
Paterson, May H. (See Paterson, William and M. H.)
Paterson, William and M. H., Oakland, Calif. Motor-truck tractor. No. 1,336,653; Apr. 13; v. 273; p. 239.
Patterson, Mark B. (See Cuyler, E. H., and Patterson.)
Patterson, Lewis P., Kansas City, Kans. Welded joint and welding. No. 1,337,023; Apr. 13; v. 273; p. 310.
Patterson, William J., trustee. (See McComb, William M., assignor.)
Paulson, Walter H. (See Lathrop, H. D., and Paulson.)
Paulus, Fred and O., Harvard, Nebr. Door stop and lock. No. 1,336,535; Apr. 13; v. 273; p. 216.
Paulus, Oscar. (See Paulus, Fred and O.)
Pautzke, William F., Lawrence, Kans. Mechanical toy. No. 1,336,756; Apr. 13; v. 273; p. 259.
Peatman, Ralph A., Mound City, Kans. Pump attachment for automobiles. No. 1,336,920; Apr. 13; v. 273; p. 291.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sedimentation apparatus. No. 1,337,094; Apr. 13; v. 273; p. 324.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sedimentation apparatus. No. 1,337,095; Apr. 13; v. 273; p. 324.
Pedler, William J., *et al.* (See Atkins, Walter, assignor.)
Perrin, Solon L., *et al.* (See Gothner, John, assignor.)
Peters, Andrew, Oakland, Calif. Dough cutting and molding machine. No. 1,337,152; Apr. 13; v. 273; p. 334.
Peters Machine and Manufacturing Company. (See Thiemer, William H., assignor.)
Peters, Robert H. (See Western, A. H., and Peters.)
Peterson, Charlie, Crystal Falls, Mich. Runner attachment for automobiles. No. 1,337,153; Apr. 13; v. 273; p. 335.
Phillips, George W., Sawyer, Kans. Sharpener. No. 1,337,154; Apr. 13; v. 273; p. 335.
Pfund, Lewis J. (See Foerster, T. J., and Pfund.)
Phillips & Clark Stove Co. (See Beers, Edward C., assignor.)
Phillips & Slack, Inc. (See Chase, Elroy A., assignor.)
Picard, Stanislas S., Providence, R. I. Carrier for braiding-machines. No. 1,337,155; Apr. 13; v. 273; p. 335.
Pickens, Julius A., Easley, S. C. Electric furnace. No. 1,337,156; Apr. 13; v. 273; p. 335.
Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Vibrator. No. 1,336,921; Apr. 13; v. 273; p. 291.
Pille, George J. (See Kirchner, Arthur W., assignor.)
Pipenhagen, Charles A., Chicago, Ill. Radiator-shutter. No. 1,336,978; Apr. 13; v. 273; p. 302.
Plettner, Otto L., and W. H. Lowe, assignors to The Continental Tractor Company, Continental, Ohio. Tractor. No. 1,336,581; Apr. 13; v. 273; p. 225.
Plughoff, Albert D., *et al.* (See Atkins, Walter, assignor.)
Plummer, Arthur B., Chicago, Ill. Orthopedic pad. No. 1,336,979; Apr. 13; v. 273; p. 302.
Pooler, Earl. (See Law, H. E., and Pooler.)
Porri, Antoine, Bone, Algeria. Mold for manufacture of concrete pipes. No. 1,336,857; Apr. 13; v. 273; p. 279.
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne) Billancourt, Seine, France. Shock-absorber for airplane-radiators. No. 1,337,157; Apr. 13; v. 273; p. 335.
Potter, Thomas R. F., assignor to Lock Stub Check Company, Brooklyn, N. Y. Sales-check holder. No. 1,336,922; Apr. 13; v. 273; p. 291.
Prigan, Gustave H., Burns, Mont. Harvester-reel arm. No. 1,336,536; Apr. 13; v. 273; p. 217.
Prince, Benjamin A., and E. I. La Count, assignors to Orcutt Automatic Train Control Company, Worcester, Mass. Train-controlling system. No. 1,336,484; Apr. 13; v. 273; p. 207.
Prince, John D., Boston, Mass. Leather substitute. No. 1,336,858; Apr. 13; v. 273; p. 279.
Pryor, Clarence E. (See Todenwarth, Walter W., assignor.)
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,336,582; Apr. 13; v. 273; p. 225.
Racine Tool & Machine Co. (See Reinhardt, W. C., and Banker, assignors.)
Raffelson, Isaac, New York, N. Y. Tire-protector. No. 1,336,757; Apr. 13; v. 273; p. 259.
Rauh, Milton. (See Aylor, W. E., and Rauh.)
Ray, Albert D., Cleveland, Ohio. Oil-bolt. No. 1,336,654; Apr. 13; v. 273; p. 239.
Read, Collins P., Newark, N. J. Safety-chock. No. 1,336,442; Apr. 13; v. 273; p. 199.
Realty Trust Company, The, *et al.*, trustees. (See Warren, William H., assignor.)
Reed, Fred L., Syracuse, N. Y. Jar-cover remover. No. 1,337,158; Apr. 13; v. 273; p. 335.
Reeves, Clifton, Trenton, N. J. Steam-engine construction. No. 1,337,024; Apr. 13; v. 273; p. 310.
Reid, Harry F., Minneapolis, Minn. Humidifier. No. 1,336,860; Apr. 13; v. 273; p. 279.
Reihing, Anthony, East Toledo, Ohio. Telephone-cord. No. 1,336,859; Apr. 13; v. 273; p. 279.
Reinhardt, William C., and O. H. Banker, assignors to Racine Tool & Machine Co., Racine, Wis. Portable rail-hacksaw. No. 1,336,443; Apr. 13; v. 273; p. 199.
Rembert, William E., Humble, Tex. Sample-taking device. No. 1,336,537; Apr. 13; v. 273; p. 217.
Renault, Louis. (See Fuchs, Ernest, assignor.)
Reppe, Sever C., Winifred, Mont. Wire-stretcher. No. 1,337,159; Apr. 13; v. 273; p. 336.
Rew, William O., assignor of one-half to C. E. Gray, Eureka, Calif. Apparatus for treating liquids. No. 1,336,655; Apr. 13; v. 273; p. 239.
Rhodes, Albert C., assignor to Draper Corporation, Hopedale, Mass. Furnace. No. 1,336,980; Apr. 13; v. 273; p. 302.
Rice, Chester S., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,337,096; Apr. 13; v. 273; p. 324.
Rieheth, George H., Minneapolis, Minn. Battery-tester. No. 1,337,160; Apr. 13; v. 273; p. 336.
Riggins, Wyatt S. (See Sims, James G., assignor.)
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,583; Apr. 13; v. 273; p. 226.
Ringer, Sören, Copenhagen, Denmark. Arrangement for letter-files and the like. No. 1,336,584; Apr. 13; v. 273; p. 226.
Roberts, Charles, Newark, N. J. Sign mechanism. No. 1,336,585; Apr. 13; v. 273; p. 226.
Roberts, Charles E., Oak Park, Ill. Dandelion-rake. No. 1,336,861; Apr. 13; v. 273; p. 279.
Roberts, George W., Menard, Tex. Windmill-gearing. No. 1,336,758; Apr. 13; v. 273; p. 259.
Roebuck, Alvah C., Evanston, Ill. Safety-razor. No. 1,336,923; Apr. 13; v. 273; p. 292.
Rogozea, Sava, Paris, France. Torpedo-shooting device. No. 1,336,656; Apr. 13; v. 273; p. 239.
Roland & Whytock Company. (See Bainton, George W., assignor.)
Rosendahl, Nils M., Winthrop Harbor, Ill., assignor to F. C. Austin, Chicago, Ill. Batchometer. No. 1,336,586; Apr. 13; v. 273; p. 226.
Ross, Scott C. (See Ruppel, Richard, assignor.)
Roy, William J., and J. B. Danel, Seattle, Wash. Fire-alarm signaling device. No. 1,337,161; Apr. 13; v. 273; p. 336.
Royan, George, Chicago, Ill., assignor to American Oven & Machine Company, Mixing-machine. No. 1,336,862; Apr. 13; v. 273; p. 280.
Rozenske, Harry, Detroit, Mich. Ash-sifter. No. 1,336,538; Apr. 13; v. 273; p. 217.
Ruby, Charles F., Shawnee, Okla. Cement-molding apparatus. No. 1,336,539; Apr. 13; v. 273; p. 217.
Ruddick, John J., Newton, Mass. Trolley-switch. No. 1,336,485; Apr. 13; v. 273; p. 207.
Ruddick, John J., Newton, Mass. Block-signal system. No. 1,336,486; Apr. 13; v. 273; p. 207.
Runnion, David A., Fortress Monroe, Va. Valve-grinder. No. 1,336,863; Apr. 13; v. 273; p. 280.
Ruppel, Richard, New York, assignor to S. C. Ross, Buffalo, N. Y. Expansion-joint. No. 1,336,924; Apr. 13; v. 273; p. 292.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway-car. No. 1,336,864; Apr. 13; v. 273; p. 280.
Rydberg, Helge S. A., Malmö, Sweden. Diaphragm-horn. No. 1,337,162; Apr. 13; v. 273; p. 336.
Safety Car Heating & Lighting Company. (See Thomson, William L., assignor.)
Sakauye, Suyeji, East San Pedro, Calif. Sea-current-direction indicator. No. 1,336,925; Apr. 13; v. 273; p. 292.
Salisbury, Orange J., assignor to United Filters Corporation, Salt Lake City, Utah. Method of and apparatus for filtration. No. 1,336,444; Apr. 13; v. 273; p. 199.
Salles, Pierre M. R., Cauderan, France. Incandescent-electric-lamp holder. No. 1,336,587; Apr. 13; v. 273; p. 226.
Sandberg, Johan H. (See Uhr, N. W., and Sandberg.)
Sands, Robert B., Spencer, Iowa. Inner liner for cement-tile pallets. No. 1,336,865; Apr. 13; v. 273; p. 280.

Santer, Herman, assignor to Latham Automatic Registering Company, Chicago, Ill. Registering-hook. No. 1,336,487; Apr. 13; v. 273; p. 207.
Schickluna, Joseph J., Buffalo, N. Y. Protective casing for electric meters. No. 1,337,163; Apr. 13; v. 273; p. 336.
Schierding, William, Spokane, Wash. Automobile-signal. No. 1,336,588; Apr. 13; v. 273; p. 226.
Schimmel, Fridolin, Faribault, Minn. Rock-rack. No. 1,336,981; Apr. 13; v. 273; p. 302.
Schlueter, John H., Cincinnati, Ohio. Vessel. No. 1,336,866; Apr. 13; v. 273; p. 280.
Schmidt, John E., and C. E. McArthur, Chicago, Ill. Rod-cutter. No. 1,336,589; Apr. 13; v. 273; p. 227.
Schmidt, Otto, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Soluble condensation product and making it. No. 1,336,759; Apr. 13; v. 273; p. 260.
Schmidt, Valdemar, Los Angeles, Calif. Cutter for excavators. No. 1,336,657; Apr. 13; v. 273; p. 239.
Schmidt, Valdemar, Los Angeles, Calif. Road-maker, excavator, and grader. No. 1,336,658; Apr. 13; v. 273; p. 240.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-carriage frame. No. 1,336,926; Apr. 13; v. 273; p. 292.
Schoenle, Walter M. (See Benzinger, Albert, assignor.)
Scholz, Rudolph, Newark, N. J. Saddle attachment for motorcycles and the like. No. 1,337,025; Apr. 13; v. 273; p. 310.
Schorr, Robert, assignor to Byron Jackson Iron Works, Inc., San Francisco, Calif. Bearing-protector for deep-well pumps and the like. No. 1,336,540; Apr. 13; v. 273; p. 218.
Scott, William M., Tredyffrin township, Chester county, Pa. Control system. No. 1,336,488; Apr. 13; v. 273; p. 207.
Service Carbide Lamp Company. (See Luttrell, John D., assignor.)
Shears, Sumner S. (See Lenged, Irvin D., assignor.)
Sheen, Milton R., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa. Building construction. No. 1,336,789; Apr. 13; v. 273; p. 266.
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Delivery mechanism for folded products. No. 1,336,445; Apr. 13; v. 273; p. 199.
Shepherd, Oliver J., New York, N. Y. Puzzle. No. 1,336,541; Apr. 13; v. 273; p. 218.
Shipp, Clarence C., Indianapolis, Ind. Roof-ventilator joint. No. 1,336,590; Apr. 13; v. 273; p. 227.
Shull, Leo W., assignor to The Allen Filter Company, Toledo, Ohio. Filtering compound. No. 1,336,591; Apr. 13; v. 273; p. 227.
Sibbald, William H., Minot, N. D., assignor to E. E. Clement, Washington, D. C. Attachment for internal-combustion engines. No. 1,336,592; Apr. 13; v. 273; p. 227.
Sifleet, Stephen B., Pirongia, Waikato, New Zealand. Milk-claw support. No. 1,336,593; Apr. 13; v. 273; p. 227.
Silver Manufacturing Company, The. (See Haldeman, James C., assignor.)
Silvius, Ellis T., assignor to M. H. Barton, Indianapolis, Ind. Cutter-bar and bit-chain for mining-machines. No. 1,336,927; Apr. 13; v. 273; p. 292.
Simmons Company. (See Gall, John F., assignor.)
Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Method and apparatus for alining work on V-blocks and the like for magnetic chucks. No. 1,336,928; Apr. 13; v. 273; p. 293.
Simmons, James L., assignor of fifty-one per cent. to T. W. Beckey and twenty-four and one-half per cent. to W. C. Nalle, Washington, D. C. Machine for making aeroplane-propellers. No. 1,336,659; Apr. 13; v. 273; p. 240.
Simms, Amos H., Chicago, Ill. Railway safety device. No. 1,336,986; Apr. 13; v. 273; p. 303.
Simms, Edward R., Scottdale, Pa. Vehicle-tire. No. 1,336,790; Apr. 13; v. 273; p. 266.
Simpson, Charles F., Oakland, Calif. Telephone-receiver holder. No. 1,336,929; Apr. 13; v. 273; p. 293.
Sims, Frederick L. H., assignor to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Metal bending and forming machine. No. 1,336,660; Apr. 13; v. 273; p. 240.
Sims, James G., assignor of one-fourth to W. S. Riggins, Bowie, Tex. Cotton-chopping machine. No. 1,336,708; Apr. 13; v. 273; p. 250.
Singer Manufacturing Company, The. (See Barron, W. L., and Osol, assignors.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.
Skipworth, Richmond T., Utica, Miss. Nut-lock. No. 1,337,164; Apr. 13; v. 273; p. 337.
Sloan, Wayne F., Pomeroy, Ohio. Mold for drain-tiles. No. 1,336,867; Apr. 13; v. 273; p. 280.
Smith, Claud F., Kalamazoo, Mich. Signal device. No. 1,336,489; Apr. 13; v. 273; p. 207.
Smith, Harry E. (See Duvall, G. W., Beebe, and Smith.)
Smith, Hiram G. (See Ward, B. M., and Smith.)
Snider, Ellsworth, Monroeville, Ind. Wheel for tractors. No. 1,336,791; Apr. 13; v. 273; p. 266.
Società Anonima Italiana Gio. Ansaldo & C. (See Almagia, L., and Guerreschi, assignors.)
Societe Des Moteurs Salmon (Systeme Canton-Unne. (See Postal-Vinay, Pierre J. R., assignor.)
Society of Chemical Industry in Basle. (See Gams, Alphons, assignor.)
Sollima, Antonio. (See Sollima, Carmelo, assignor.)
Sollima, Carmelo, Paris, France, assignor of one-half to A. Sollima, Brooklyn, N. Y. Mechanical device for transmitting and regulating speed. No. 1,336,542; Apr. 13; v. 273; p. 218.
Sommer, Robert. (See Klousnitzer, Frank, assignor.)
Sparks, William, assignor to Sparks-Withington Company, Jackson, Mich. Horn. No. 1,336,594; Apr. 13; v. 273; p. 228.
Sparks-Withington Company. (See Sparks, William, assignor.)
Spence, Lewis D., East Providence, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Calipers. No. 1,337,165; Apr. 13; v. 273; p. 337.
Spencer, Henry B., Ottawa, Ontario, Canada. Rail-torpedo safety and positive lock. No. 1,336,792; Apr. 13; v. 273; p. 266.
Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
Splitdorf Electrical Company. (See Broegger, Ivar W., assignor.)
Splitdorf Electrical Company. (See Kiefer, John M., Jr., assignor.)
Stage, Harold L., Denver, Colo. Rock-drill seating and controlling means. No. 1,336,930; Apr. 13; v. 273; p. 293.
Stageberg, Martin G., Thief River Falls, Minn. Clock-spring. No. 1,337,097; Apr. 13; v. 273; p. 324.
Stahl, Charles E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Excavator-bucket cleaner. No. 1,336,595; Apr. 13; v. 273; p. 228.
Stamp, Edward S. (See Gould, F. J., and Stamp.)
Standard Parts Company, The. (See Mantemach, John C., assignor.)
Standerwick, Reginald G., Lynn, Mass., assignor to General Electric Company. Turbine-driven set. No. 1,337,098; Apr. 13; v. 273; p. 325.
Standley, Melvin H., assignor of one-half to W. Ward, Scott City, Kans. Spring for auto-tires. No. 1,336,868; Apr. 13; v. 273; p. 281.
Stanley, Lester A., Washington, D. C. Printing device. No. 1,336,989; Apr. 13; v. 273; p. 304.
Staples, Edward C., Canton, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Metallic shelving. No. 1,336,490; Apr. 13; v. 273; p. 208.
Stark, Ottman G. (See Flammang, John, assignor.)
Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Applying rail-bonds. No. 1,336,931; Apr. 13; v. 273; p. 293.
Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,932; Apr. 13; v. 273; p. 293.
Starring, Alfred A., Kansas City, Mo., assignor to B. Mossman, trustee. Desensitized nitroglycerin explosive. No. 1,336,661; Apr. 13; v. 273; p. 240.
Steel Products Company, The. (See Chism, Louis W., assignor.)
Steese, Rollins C., *et al.*, trustees. (See Warren, William H., assignor.)
Stenbo, Kristen S., Copenhagen, Denmark. Vertical coffee-mill. No. 1,336,793; Apr. 13; v. 273; p. 266.
Stepanian, Stephen, Columbus, Ohio. Wrench. No. 1,336,794; Apr. 13; v. 273; p. 267.
Stern, Charles, New York, N. Y. Combination holder and stralner. No. 1,336,491; Apr. 13; v. 273; p. 208.
Stewart, Claude W., Martinsburg, W. Va. Vacuum-cleaner. No. 1,336,760; Apr. 13; v. 273; p. 260.
Stibbe, Godfrey, Leicester, England. Circular glove-knitting machine. No. 1,337,099; Apr. 13; v. 273; p. 325.
Stocking, George, San Francisco, Calif. Hair-clipping device. No. 1,336,662; Apr. 13; v. 273; p. 240.
Stolle, Georg, Kiel, Germany. Device for changing regenerating-cartridges of breathing apparatus. No. 1,337,026; Apr. 13; v. 273; p. 311.
Stolzenwald, Frederick, assignor of one-half to A. Wissel, San Francisco, Calif. Electric socket and lamp-protector. No. 1,336,761; Apr. 13; v. 273; p. 260.
Stone, Charles W., and H. M. Hobart, Schenectady, N. Y., assignors to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,100; Apr. 13; v. 273; p. 325.
Stone, Samuel M., Chicago, Ill. Leaf-spring shackle. No. 1,336,446; Apr. 13; v. 273; p. 200.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,336,596; Apr. 13; v. 273; p. 228.
Story, Elliott M., Braintree, Mass. Pneumatic tire. No. 1,336,663; Apr. 13; v. 273; p. 241.
Stovall, Henry R., Tulsa, Okla. Tie-handling tongs. No. 1,337,101; Apr. 13; v. 273; p. 325.
Stover, Willard L., Amarillo, Tex. Wrench. No. 1,337,102; Apr. 13; v. 273; p. 325.
Stralth, John, Richmond, Va. Infant-chair. No. 1,337,103; Apr. 13; v. 273; p. 326.
Strand, William F., Des Moines, Iowa. Ignition system for internal-combustion engines. No. 1,336,933; Apr. 13; v. 273; p. 293.
Straus, Alexander L., Baltimore, Md. Producing soft drinks. No. 1,337,027; Apr. 13; v. 273; p. 311.
Stubbs, Robert L., assignor to The Park Manufacturing Company, Charlotte, N. C. Safety attachment for elevators. No. 1,336,664; Apr. 13; v. 273; p. 241.
Stuebing Truck Company, The. (See Stuebing, William, Jr., assignor.) (Reissue.)

Stuebing, William, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Stuebing Truck Company. Lifting-truck. (Reissue.) No. 14,839; Apr. 13; v. 273; p. 341.
Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing-machine. No. 1,336,543; Apr. 13; v. 273; p. 218.
Submarine Signal Company. (See Wood, Edward C., assignor.)
Suffa, George A., Dorchester, Mass. Valve mechanism. No. 1,336,447; Apr. 13; v. 273; p. 200.
Sullivan, Francis J. (See Hopkins, W. G., and Sullivan.)
Sullivan, Frank P., Belvidere, Ill. Gun-cleaner. No. 1,337,104; Apr. 13; v. 273; p. 326.
Sullivan, Vernon L., El Paso, Tex. Electric-generator attachment for windmills. No. 1,336,544; Apr. 13; v. 273; p. 218.
Svaigel, Joseph, Detroit, Mich. Automobile-signal. No. 1,336,795; Apr. 13; v. 273; p. 267.
Swenson, Martin, Chicago, Ill. Calculator. No. 1,336,990; Apr. 13; v. 273; p. 304.
Swerer, Millard F., Jamestown, Calif. Receptacle for pneumatic-tire tubes. No. 1,337,178; Apr. 13; v. 273; p. 340.
Swinnerton, Bertram B., Beaver, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Ware-support for ceramic firing. No. 1,336,762; Apr. 13; v. 273; p. 260.
Sykes, Wilfred. (See Lamme, B. G., and Sykes.)
Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
Tagliabue, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)
Talmage, John G., Cleveland, Ohio. Method of and apparatus for distributing lubricating-oil under steam-pressure. No. 1,337,179; Apr. 13; v. 273; p. 340.
Tamburello, Benedetto, New York, N. Y. Fastening means for demountable rims. No. 1,336,934; Apr. 13; v. 273; p. 294.
Taylor, Asa J., Jr., assignor of one-half to H. M. Thompson, Chicago, Ill. Electric gear-shifter. No. 1,336,796; Apr. 13; v. 273; p. 267.
Teal, Arthur E., Walker township, Kent county, Mich. Phonograph. No. 1,336,492; Apr. 13; v. 273; p. 208.
Templeton, William B., Long Lake, Wash., assignor to General Electric Company. Electric switch. No. 1,337,105; Apr. 13; v. 273; p. 326.
Terrell, Alfred. (See Friel, Patrick H., assignor.)
Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Leather-skiving machine. No. 1,336,597; Apr. 13; v. 273; p. 228.
Thieme, Otto and F. O. Mueller, assignors to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Pressure-roller for typewriting-machines, &c. No. 1,336,797; Apr. 13; v. 273; p. 267.
Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,336,985; Apr. 13; v. 273; p. 303.
Thomas, Arthur R., Minneapolis, Minn. Automobile-muff. No. 1,336,763; Apr. 13; v. 273; p. 260.
Thompson, Harry M. (See Taylor, Asa J., Jr., assignor.)
Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Making nitric acid. No. 1,337,106; Apr. 13; v. 273; p. 326.
Thomson, William L., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,336,764; Apr. 13; v. 273; p. 260.
Three Leaf Cot Manufacturing Company. (See Clough, Alfred N., assignor.)
Throop, Charles E., Buffalo, N. Y. Sheet-moving mechanism. No. 1,336,598; Apr. 13; v. 273; p. 229.
Thropp, Joseph W., Trenton, N. J. Thrust-bearing. No. 1,337,028; Apr. 13; v. 273; p. 311.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Making gears. No. 1,336,493; Apr. 13; v. 273; p. 208.
Timosel, Antonio T., San Jose, Calif. Kettle. No. 1,336,869; Apr. 13; v. 273; p. 281.
Todenwarth, Walter W., Roselle, assignor of one-half to C. E. Pryor, Jersey City, N. J. Hydrocarbon-burner. No. 1,336,798; Apr. 13; v. 273; p. 267.
Toles, Justin K., San Francisco, Calif. Safety-razor. No. 1,337,166; Apr. 13; v. 273; p. 337.
Tollbom, Bernhard T., Samuels, Idaho. Autosled. No. 1,336,448; Apr. 13; v. 273; p. 200.
Tracy, Hayden H., San Francisco, Calif. Steam-separator. No. 1,336,870; Apr. 13; v. 273; p. 281.
Trego, Abner V., Mount Washington, Mo. Collapsible box. No. 1,337,167; Apr. 13; v. 273; p. 337.
Troutman, Frank E., Butler, Pa. Furnace-charging apparatus. No. 1,336,494; Apr. 13; v. 273; p. 208.
Trunk, Rudolf, Pforzheim, assignor to the Firm of Fr. Kammerer, Pforzheim, Baden, Germany. Wire for making chains and other articles of jewelry. No. 1,336,449; Apr. 13; v. 273; p. 200.
Tschunke, Reinhold, Breslau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing salts of the N-methyl hexa-menthenetetramin. No. 1,336,709; Apr. 13; v. 273; p. 250.
Tsekuras, George, Philadelphia, Pa. Cooking device. No. 1,336,599; Apr. 13; v. 273; p. 229.
Tunnel Machine Manufacturing & Engineering Company. (See Sheen, Milton R., assignor.)
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-support for chain-track tractors. No. 1,336,871; Apr. 13; v. 273; p. 281.
Turner, Richard G., Malden, Mass. Loom. No. 1,336,545; Apr. 13; v. 273; p. 219.
Tutt, R. N. (See Barnett, John B., assignor.)
Tuttle, Henry W., Des Plaines, Ill. Filtering-machine. No. 1,336,600; Apr. 13; v. 273; p. 229.
Twigg, John F., San Francisco, Calif. Life-raft. No. 1,336,872; Apr. 13; v. 273; p. 281.
U. S. Light & Heat Corporation. (See Carpenter, C. C., and Ellis, assignors.)
Udy, Marvin J., assignor to Haynes Stellite Company, Kokomo, Ind. Recovering cobalt. No. 1,336,765; Apr. 13; v. 273; p. 261.
Uhr, Nils W. (See Wigellus, S. G., and Uhr.)
Uhr, Nils W., Gottenborg, and J. H. Sandberg, Stockholm, Sweden. Firing device for submarine mines, torpedoes, or the like. No. 1,336,873; Apr. 13; v. 273; p. 282.
Underhill, Walter A., and C. C. Avery, assignors to The Eagle Wagon Works, Auburn, N. Y. Wagon-train. No. 1,336,665; Apr. 23; v. 273; p. 241.
Union Metal Manufacturing Company, The. (See Drumm, Herbert C., assignor.)
United Filters Corporation. (See Salisbury, Orange J.)
United Shoe Machinery Corporation. (See Wentworth, Jesse S., assignor.)
United States Ordnance Company. (See Dawson, A. T., and Buckham, assignors.)
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Dirigible balloon. No. 1,336,601; Apr. 13; v. 273; p. 229.
Urschel, William E., Valparaiso, Ind. Apparatus for snipping string-beans. No. 1,336,991; Apr. 13; v. 273; p. 304.
Uttmark, Fritz E., New York, N. Y. Ship's position-plotting chart. No. 1,337,168; Apr. 13; v. 273; p. 237.
Van Derver, Clarence A. (See Lang, E. C., and Van Derveer.)
Van Nest, Lin A., La Junta, Colo. Roof-framing tool. No. 1,337,107; Apr. 13; v. 273; p. 326.
Van Santen, Harm H., Delft, Netherlands. Means employed in card-accounting systems. No. 1,336,992; Apr. 13; v. 273; p. 304.
Vasey, William G., Lakeside, Oreg. Butt-hook. No. 1,336,666; Apr. 13; v. 273; p. 241.
Vaughan, Jay W., Chicago, Ill. Combined work-table and gage. No. 1,336,799; Apr. 13; v. 273; p. 268.
Verdier, Captain P. (See Cutler, William F., assignor.)
Victor Adding Machine Company, The. (See Johantgen, Oliver D., assignor.)
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Machining hydrocarbon-motors. No. 1,336,800; Apr. 13; v. 273; p. 268.
Wachenberg, Lewis, New York, N. Y. Filter. No. 1,337,170; Apr. 13; v. 273; p. 338.
Wachtel, William W., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Confection-box. No. 1,336,874; Apr. 13; v. 273; p. 282.
Wade, Henry C., Bayonne, N. J., assignor, by mesne assignments, to Wadol Corporation. Apparatus for decomposing hydrocarbon-oils and water. No. 1,336,450; Apr. 13; v. 273; p. 200.
Wadol Corporation. (See Wade, Henry C., assignor.)
Wakefield, Ralph A., Sacramento, Calif. Self-propelled vehicle. No. 1,336,935; Apr. 13; v. 273; p. 294.
Walbach, William F. (See Carran, Edward, assignor.)
Waldref, Grant. (See Anderson, Albert S., assignor.)
Wall, Arthur W., Sheldon, near Birmingham, England. Crank or crank-shaft of internal-combustion engines. No. 1,336,546; Apr. 13; v. 273; p. 219.
Wallace, John, Helensburgh, Scotland, and T. R. Lees, Shirehampton, England. Steam-valve. No. 1,336,451; Apr. 13; v. 273; p. 200.
Wallace, William W. (See Fryer, J. A., and Wallace.)
Waltke, Wm., & Company. (See Heeter, Thomas E., assignor.)
Ward, Benjamin M., and H. G. Smith, Fayetteville, N. C. Fire-basket. No. 1,336,766; Apr. 13; v. 273; p. 261.
Ward, Orin W., New York, N. Y. Block toy building. No. 1,337,171; Apr. 13; v. 273; p. 338.
Ward, Weseley. (See Standley, Melvin H., assignor.)
Warner, Earnest A., Beach, N. D. Spark-plug. No. 1,337,169; Apr. 13; v. 273; p. 338.
Warren, William H., Youngstown, Ohio, assignor to The Realty Trust Company, and R. C. Steese, trustees. Metal-casting apparatus. No. 1,336,767; Apr. 13; v. 273; p. 261.
Warren, William H., assignor to The Realty Trust Company, and R. C. Steese, trustees, Youngstown, Ohio. Metal-casting. No. 1,336,768; Apr. 13; v. 273; p. 261.
Wassell, Clifford R., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill. Electrical connector. No. 1,336,801; Apr. 13; v. 273; p. 268.
Weithaus, John J., North Vernon, Ind. Liquid-hydrocarbon-vapor producer. No. 1,337,108; Apr. 13; v. 273; p. 327.
Weitzel, Paul R., Philadelphia, Pa. Means for indicating level of plastic material in containers. No. 1,337,029; Apr. 13; v. 273; p. 312.
Weitzel, Paul R., Philadelphia, Pa. Means for indicating level of plastic material in containers. No. 1,337,030; Apr. 13; v. 273; p. 312.

Wells, Otto. (See Maxim, Hosea F., assignor.)
Welshausen, William, Allenhurst, N. J. Device for supplying water to automobile-radiators. No. 1,336,769; Apr. 13; v. 273; p. 261.
Wentworth, Jesse S., Decatur, Ill., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Assembling-machine. No. 1,336,875; Apr. 13; v. 273; p. 282.
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company. (See Stull, John S., assignor.)
Western Vulcanizer Manufacturing Company. (See Maier, Fred, assignor.)
Westinghouse Electric & Manufacturing Company. (See Baker, Ralph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Mylins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hall, Arthur J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
Westinghouse Electric and Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lamme, B. G., and Sykes, assignors.)
Westinghouse Electric and Manufacturing Company. (See Mardis, Paul L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Weston, Alonzo H., and R. H. Peters, Buffalo, N. Y., assignors to J. P. Northey and G. Grant, Toronto, Ontario, Canada. Clamp. No. 1,336,667; Apr. 13; v. 273; p. 241.
Whalley, Robert D., Providence, R. I. Vulcanizing-press detector. No. 1,337,172; Apr. 13; v. 273; p. 338.
Wheal, Walter, Worcester, assignor to Heenan & Froude Limited, Manchester, England. Match-making machine. No. 1,337,109; Apr. 13; v. 273; p. 327.
Wheelock, Herbert K., Long Beach, Calif. Tire. No. 1,336,452; Apr. 13; v. 273; p. 201.
Wherry, John A., New Orleans, La. Collating device for typewriters and adding-machines. No. 1,336,453; Apr. 13; v. 273; p. 201.
Wherry, John A., New Orleans, La. Collating device for typewriters and adding-machines. No. 1,336,454; Apr. 13; v. 273; p. 201.
White, Clifford L., Stockdale, Ohio. Electric switch. No. 1,336,455; Apr. 13; v. 273; p. 201.
White, David G., Boston, Mass. Reversible toothbrush. No. 1,337,173; Apr. 13; v. 273; p. 339.
White, Frank O. (See Gervig, Philip M., assignor.)
Whitney, Raymond K., Manhattan, Kans. Coaster. No. 1,336,456; Apr. 13; v. 273; p. 201.
Whyte, Edward S., Lowell, Mass. Combined spoon and fork. No. 1,337,174; Apr. 13; v. 273; p. 339.
Whyte, Frederick M., Tarrytown, N. Y. Metal roof for cars. No. 1,336,993; Apr. 13; v. 273; p. 304.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-link. No. 1,336,876; Apr. 13; v. 273; p. 282.
Wigellus, Sven G., and N. W. Uhr, Gottenborg, Sweden. Internal-combustion engine of compound type. No. 1,336,668; Apr. 13; v. 273; p. 242.
Wilcox, Albinus. (See Wilcox, Charles F., assignor.)
Wilcox, Charles F., New York, assignor of forty-nine one-hundredths to A. Wilcox, Kings county, N. Y. Flying-machine. No. 1,336,669; Apr. 13; v. 273; p. 242.
Willeford, Charles, Mount Pleasant, Iowa. Hen's nest. No. 1,336,802; Apr. 13; v. 273; p. 268.
Williams, Sidney, *et al.* (See Parker, Harry J., assignor.)
Winston, Overton, Minneapolis, Minn. Headlight. No. 1,336,602; Apr. 13; v. 273; p. 229.
Winter, Anna K., New York, N. Y. Safe-door trap. (Reissue.) No. 14,840; Apr. 13; v. 273; p. 341.
Winter, Julius. (See de Lukacsevics, Charles, assignor.)
Wirkkala, Oscar A., Kent, Wash. Logging system. No. 1,336,877; Apr. 13; v. 273; p. 282.
Wissel, August. (See Stolzenwald, Frederick, assignor.)
Wittmaack, Christian L. H., Zehlendorf, near Berlin, Germany. Arrangement for driving ships' propellers. No. 1,336,770; Apr. 13; v. 273; p. 261.
Wittmann, Jokshan F., St. Louis, Mo. Air-cooler for engines. No. 1,336,457; Apr. 13; v. 273; p. 201.
Woerner, Eugen, assignor to the Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Common camdriving device for actuating the pistons of a plurality of pumps. No. 1,336,803; Apr. 13; v. 273; p. 268.
Wohler, Emil R., Chicago, Ill. Binder. No. 1,336,495; Apr. 13; v. 273; p. 208.
Wolf, Fred W., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Process of and apparatus for refrigerating. No. 1,337,175; Apr. 13; v. 273; p. 339.
Wolf, John, Topeka, Kans. Latch-lock. No. 1,336,496; Apr. 13; v. 273; p. 208.
Wolff, Herbert W., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Interlocking spring-plank. No. 1,336,458; Apr. 13; v. 273; p. 202.
Wood, Alfred B., Chicago, Ill. Anti-freeze device for fluid-pressure systems. No. 1,336,984; Apr. 13; v. 273; p. 303.
Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Portland, Me. Receiver-mounting for submarine-signals. No. 1,336,497; Apr. 13; v. 273; p. 209.
Woodward, Robert C., Williamsport, Pa. Ingot-mold and molding. No. 1,336,459; Apr. 13; v. 273; p. 202.
Woodward, William W., Mount Rainier, Md. Wrench. No. 1,336,460; Apr. 13; v. 273; p. 202.
Woolwine Metal Products Company. (See Frey, Sigmund, assignor.)
Wright, Fred A., Wilmington, N. C. Framework for reinforcing and shaping concrete structures. No. 1,336,547; Apr. 13; v. 273; p. 219.
Wrona, Fred J., Hamtramck, Mich. Curtain-pole and shade-roller holder. No. 1,336,936; Apr. 13; v. 273; p. 294.
Yackel, Carl, Syracuse, N. Y. Lifting instrument. No. 1,336,461; Apr. 13; v. 273; p. 202.
Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
Yarrow, Harold E., Glasgow, Scotland. Water-cooled valve for closing the funnels of submarine vessels. No. 1,337,110; Apr. 13; v. 273; p. 327.
Zadorozny, Wasyl, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Pipe-wrench. No. 1,336,710; Apr. 13; v. 273; p. 251.
Zygiel, Tony. (See Zadorozny, Wasyl, assignor.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Automatic Products Corporation. (See Mangless, William A., assignor.)
American Bosch Magneto Corporation. (See Bartsch, Alfred H., assignor.)
American Hardware Corporation. (See Stone, Elmer B., assignor.)
Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp front frame. No. 54,823; Apr. 13; v. 273; p. 341.
American Newsvender Corporation. (See Hotaling, Omar J., assignor.)
Ashley, Frank M., Brooklyn, N. Y. Inkstand. No. 54,824; Apr. 13; v. 273; p. 341.
Associated Silver Company. (See Lasher, Thomas B., assignor.)
Barber, William J. (See Kerr, H. E., and Barber.)
Barnes, John, Valders, Wis. Combination-tool. No. 54,825; Apr. 13; v. 273; p. 342.
Bartlett, Louis T., Wellesley Hills, Mass. Roll, matrix, die or similar article. No. 54,826; Apr. 13; v. 273; p. 342.
Bartsch, Alfred H., assignor to American Bosch Magneto Corporation, Springfield, Mass. Armature of a magneto-electric machine. No. 54,827; Apr. 13; v. 273; p. 342.
Behn, Guido G., assignor to Essex Motors, Detroit, Mich. Radiator-casing for automobiles. No. 54,828; Apr. 13; v. 273; p. 342.
Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Sterilizing-cabinet. No. 54,829; Apr. 13; v. 273; p. 342.
Booth, Robert, assignor to Rex Motor Car Manufacturing Company, New Orleans, La. Automobile. No. 54,830; Apr. 13; v. 273; p. 342.
Bruns, Alfred E. (See Humphrey, Clen S., assignor.)
Campbell, Peter F., Vinal Haven, Me. Tobacco-pipe. No. 54,831; Apr. 13; v. 273; p. 343.
Clark, Thomas E., Detroit, Mich. Combined electric fan and lamp. No. 54,832; Apr. 13; v. 273; p. 343.
Cleveland Gas Burner & Appliance Co. (See Kerr, H. E., and Barber, assignors.)
Cleveland Gas Burner & Appliance Co. (See Kerr, Harry E., assignor.)
Clodfelter, Howard T., Bruno, Minn. Toilet-powder and jewelry container. No. 54,833; Apr. 13; v. 273; p. 343.
Dayton, Charles H., Iowa City, Iowa. Bottle or jug. No. 54,834; Apr. 13; v. 273; p. 343.
Demuth, Alfred M., Chicago, Ill. Steam-distributer and baster for cooking apparatus. No. 54,835; Apr. 13; v. 273; p. 343.
Duane, Harry B., Brookline, assignor to The Touraine Company, Boston Mass. Wrapping-band or article of similar nature. No. 54,836; Apr. 13; v. 273; p. 343.

Essex Motors. (See Behn, Guido G., assignor.)
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. No. 54,837; Apr. 13; v. 273; p. 344.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. No. 54,838; Apr. 13; v. 273; p. 344.
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. No. 54,839; Apr. 13; v. 273; p. 344.
Free, William C., Rockford, Ill. Sewing-machine cabinet. No. 54,840; Apr. 13; v. 273; p. 344.
Hall, C. M., Lamp Company. (See Anklam, William F., assignor.)
Heine, Frank H. (See Nicholas, Lorena B., assignor.)
Holcomb & Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
Hotaling, Omar J., East Orange, N. J., assignor to American Newsvender Corporation, New York, N. Y. Newspaper-vending cabinet. No. 54,841; Apr. 13; v. 273; p. 344.
Howe, Winthrop K., Rochester, N. Y. Washing-machine. No. 54,842; Apr. 13; v. 273; p. 345.
Hoyt, Adrian H., Penacook, N. H. Portable electrical measuring instrument. No. 54,843; Apr. 13; v. 273; p. 345.
Hulse, Edison G., Akron, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Rubber tire. No. 54,844; Apr. 13; v. 273; p. 345.
Humphrey, Clen S., assignor, by mesne assignments, to A. E. Bruns, Brooklyn, N. Y. Receptacle for toilet powders and other salable commodities. No. 54,845; Apr. 13; v. 273; p. 345.
Jacoby, Leo D., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Fiber plate. No. 54,846; Apr. 13; v. 273; p. 345.
Jarvis, Harold, Toronto, Ontario, Canada. Self-closing faucet. No. 54,847; Apr. 13; v. 273; p. 346.
Johnson, Albert J., assignor of one-half to A. J. Malek, Detroit, Mich. Gas-burner. No. 54,848; Apr. 13; v. 273; p. 346.
Johnson, Ernest J., Stoke-upon-Trent, England. Covered dish. No. 54,849; Apr. 13; v. 273; p. 346.
Jones, Thomas G., East Orange, N. J. Bowl. No. 54,850; Apr. 13; v. 273; p. 346.
Kelly-Springfield Tire Co. (See Hulse, Edison G., assignor.)
Kerr, Harry E., assignor to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,851; Apr. 13; v. 273; p. 346.
Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,852; Apr. 13; v. 273; p. 347.
Lafitte, Cecile, New York, N. Y. Pincushion. No. 54,853; Apr. 13; v. 273; p. 347.
Lashar, Thomas B., Bridgeport, Conn., assignor to Associated Silver Company, Chicago, Ill. Spoon or similar article. No. 54,854; Apr. 13; v. 273; p. 347.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 54,855; Apr. 13; v. 273; p. 347.
Loewenberg, Victor, New York, N. Y. Douche bed-pan. No. 54,856; Apr. 13; v. 273; p. 347.
Malek, August J. (See Johnson, Albert J., assignor.)
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. No. 54,857; Apr. 13; v. 273; p. 347.
Newburgh, Charles J., Chicago, Ill. Glass cover-plate for headlight-lamps. No. 54,858; Apr. 13; v. 273; p. 348.
Nicar, Ted, South Bend, Ind. Rubber heel. No. 54,859; Apr. 13; v. 273; p. 348.
Nicholas, Lorena B., Los Angeles, and F. H. Heine, Santa Ana, Calif. Toy aeroplane. No. 54,860; Apr. 13; v. 273; p. 348.
Rarig, Walter A., Oakland, Calif. Sight-feed for oil-pipe. No. 54,862; Apr. 13; v. 273; p. 348.
Rewick, Everett E., Los Angeles, Calif. Chair. No. 54,863; Apr. 13; v. 273; p. 348.
Rewick, Everett E., Los Angeles, Calif. Dresser. No. 54,864; Apr. 13; v. 273; p. 349.
Rex Motor Car Manufacturing Company. (See Booth, Robert, assignor.)
Ripich, Louis J., Cleveland, Ohio. Lamp. No. 54,865; Apr. 13; v. 273; p. 349.
Sanitary Products Corporation of America. (See Jacoby, Leo D., assignor.)
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Goblet. No. 54,866; Apr. 13; v. 273; p. 349.
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Ice-cream dish. No. 54,867; Apr. 13; v. 273; p. 349.
Shamberg, Herbert D., New York, N. Y. Electric generating unit. No. 54,868; Apr. 13; v. 273; p. 349.
Shapiro & Aronson. (See Westphal, Gottfried, assignor.)
Sidel, Robert, New York, N. Y., assignor to Sidel-Rattner Manufacturing Company. Pump-handle. No. 54,869; Apr. 13; v. 273; p. 349.
Sidel-Rattner Manufacturing Company. (See Sidel, Robert, assignor.)
Silverstein, Joseph, Peoria, Ill. Vehicle-body. No. 54,870; Apr. 13; v. 273; p. 350.
Smith, Raymond R., Cleveland, assignor to 3-0-3 Chemical Company, Toledo, Ohio. Dispensing-receptacle. No. 54,871; Apr. 13; v. 273; p. 350.
Stamm, Alfred H., Peoria, Ill. Toy vehicle. No. 54,872; Apr. 13; v. 273; p. 350.
Staufenbeil, Karl, Dubuque, Iowa. Gentleman's soft-collar holder. No. 54,873; Apr. 13; v. 273; p. 350.
Stone, Elmer B., assignor to American Hardware Corporation, New Britain, Conn. Padlock. No. 54,874; Apr. 13; v. 273; p. 350.
3-0-3 Chemical Company. (See Smith, Raymond R., assignor.)
Thwaites, William H., assignor to Thwaites X-Ray Company, Grand Rapids, Mich. Cabinet for X-ray dental apparatus. No. 54,875; Apr. 13; v. 273; p. 350.
Thwaites X-Ray Company. (See Thwaites, William H., assignor.)
Tilghman, Richard C., Washington, D. C. Signpost. No. 54,876; Apr. 13; v. 273; p. 351.
Toohey, John F., Troy, N. Y. Game-board. No. 54,877; Apr. 13; v. 273; p. 351.
Touraine Company, The. (See Duane, Harry B., assignor.)
Tsuchiya, Inosuke, Sausalito, Calif. Garden-rake. No. 54,878; Apr. 13; v. 273; p. 351.
Van Osdel, William J., Chicago, Ill. Handle for hair-clippers. No. 54,861; Apr. 13; v. 273; p. 348.
Van Wuyckhuyse, John, Rochester, N. Y. Rocking-horse. No. 54,879; Apr. 13; v. 273; p. 351.
Waite Grass Carpet Company. (See Waite, Ossian T., assignor.)
Waite, Ossian T., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 54,880; Apr. 13; v. 273; p. 351.
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 54,881; Apr. 13; v. 273; p. 351.
White, William L., Old Orchard, Me. Combined seat and table. No. 54,882; Apr. 13; v. 273; p. 352.
Willett, Benedict E., Montgomery county, near Dayton, Ohio. Display-rack. No. 54,883; Apr. 13; v. 273; p. 352.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A R G Auxiliary Spring Co., Birmingham, Ala. Vehicle-springs, fender-braces, &c. No. 130,150; Apr. 13; v. 273; p. 401.
Abrams, Saul D., Boston, Mass. Foods and ingredients of foods. No. 130,143; Apr. 13; v. 273; p. 401.
American Balsa Co., Inc., New York, N. Y. Structural material made of wood for insulation against heat, cold, and sound. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
American-National Shoe & Leather Corp., New York, N. Y. Hides and leather. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
American Trading Company, New York, N. Y. Threads and yarns. No. 130,148; Apr. 13; v. 273; p. 401.
Anthony, Max M., Cleveland, Ohio. Candy. No. 130,149; Apr. 13; v. 273; p. 401.
Bastian-Blessing Company, Chicago, Ill. Cutting and welding torches and parts thereof. No. 130,151; Apr. 13; v. 273; p. 401.
Bay Ridge Specialty Co., Inc., Brooklyn, N. Y. Bath-room fixtures. No. 130,152; Apr. 13; v. 273; p. 401.
Becker, Gustav L., Ogden, Utah. Non-intoxicating carbonated cereal maltless beverage. No. 130,153; Apr. 13; v. 273; p. 401.
Bergengren, Roy F., Lynn, Mass. Candy. No. 130,154; Apr. 13; v. 273; p. 401.
Blankinship, John S., Lynchburg, Va. Certain named furniture. No. 130,155; Apr. 13; v. 273; p. 401.
Blewett, Henry, & Son, Inc., Somerville, Mass. Bread. No. 130,156; Apr. 13; v. 273; p. 401.
Brown Brothers Company, Gainesville, Fla.; New York, N. Y., and Memphis, Tenn. Lumber stock material. No. 130,157; Apr. 13; v. 273; p. 401.
Brown Portable Conveying Machinery Co., Chicago, Ill. Tiering-machines. No. 130,158; Apr. 13; v. 273; p. 401.
Buckeye Brewing Co., Toledo, Ohio. Non-intoxicating malt beverage. No. 130,159; Apr. 13; v. 273; p. 401.
Burger, Iwan, New York, N. Y. Foods and ingredients of foods. No. 130,160; Apr. 13; v. 273 p. 401.
Byers, John F., Machine Company, The, Ravenna, Ohio. Portable hoisting-derricks. No. 130,161; Apr. 13; v. 273; p. 401.
California Walnut Growers Association, Los Angeles, Calif. Walnut-meats. No. 130,162; Apr. 13; v. 273; p. 401.
Centilvre Beverage Co., Fort Wayne, Ind. Malt beverage. No. 130,163; Apr. 13; v. 273; p. 401.
Chippewa Springs, Corporation, Minneapolis, Minn. Natural spring-water and its products. No. 130,164; Apr. 13; v. 273; p. 401.

Cochrane, T. H., Co., Portage, Wis. Field and garden seeds. No. 130,165; Apr. 13; v. 273; p. 401.
Commonwealth Steel Company, St. Louis, Mo. Cradles, pilot-beams, end sills, &c. No. 130,166; Apr. 13; v. 273; p. 401.
Corning Glass Works, Corning, N. Y. Glass. No. 130,167; Apr. 13; v. 273; p. 401.
Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Fertilizers. No. 130,168; Apr. 13; v. 273; p. 401.
Curtin, John, Corporation, New York, N. Y. Tents, canopies, awnings, &c. No. 130,169; Apr. 13; v. 273; p. 401.
Da Costa, Albert, Philadelphia, Pa. Olive oil and olives. No. 130,170; Apr. 13; v. 273; p. 401.
Dafoe-Eustice Company, Detroit, Mich. Waterproof truck and tractor covers, tarpaulins, &c. No. 130,171; Apr. 13; v. 273; p. 401.
Denver Fire Clay Company, Denver, Colo. Hydrocarbon burners and furnaces. No. 130,172; Apr. 13; v. 273; p. 402.
De Vol, P. C., Hardware Company, Council Bluffs, Iowa. Air-heating furnace, coal-heated. No. 130,173; Apr. 13; v. 273; p. 402.
Dixie Refining Co., Memphis, Tenn. Lard compound. No. 130,174; Apr. 13; v. 273; p. 402.
Dollfus-Mieg & Cie. Societe Anonyme, Millhouse, Germany. Alsatian braids of silk, linen, &c. Nos. 130,175–6; Apr. 13; v. 273; p. 402.
Enders, Wm., Manufacturing Company, Walden, N. Y. Stovepipe, gas, coal, and wood stoves, portable ovens. No. 130,177; Apr. 13; v. 273; p. 402.
Foerstering, Hans, Jamesburg, N. J. Foods. No. 130,178; Apr. 13; v. 273; p. 402.
Gagen Sales Corporation, Chicago, Ill. Metal building materials. No. 130,179; Apr. 13; v. 273; p. 402.
Goldman, Sigmund L., Chicago, Ill. Ginger-ale, kola, &c. No. 130,180; Apr. 13; v. 273; p. 402.
Guinzburg, William, New York, N. Y. Heel-grips. No. 130,181; Apr. 13; v. 273; p. 402.
Guthard, Edgar C., Co., Chicago, Ill. Rotary tools. No. 130,182; Apr. 13; v. 273; p. 402.
Hardaway-Cargill Co., Columbus, Ga. Corn and cane products syrups. No. 130,183; Apr. 13; v. 273; p. 402.
Hector, Panteli, Springfield, Mass. Cigars. No. 130,184; Apr. 13; v. 273; p. 402.
Hinde & Dauch Paper Co., Sandusky, Delphas, and Cleveland, Ohio; Philadelphia, Pa.; New York, N. Y.; Muncie, Ind.; Gloucester, N. J., and Toronto, Canada. Cartons, boxes, shipping-envelops, &c. No. 130,185; Apr. 13; v. 273; p. 402.
Hope Webbing Company, Pawtucket, R. I. Belts, binding, textile braiding, and tape. Nos. 130,186–90; Apr. 13; v. 273; p. 402.
Hutchison Office Specialties Co. Inc., New York, N. Y. Staple forming and affixing machines, and parts. No. 130,191; Apr. 13; v. 273; p. 402.
Imperial Belting Company, Chicago, Ill. Rubber and duck belting, and hose, rubber, flax, and asbestos machinery packing. No. 130,192; Apr. 13; v. 273; p. 402.
Johnson, McGarr & Warren, Philadelphia, Pa. Bridles for brooms. No. 130,193; Apr. 13; v. 273; p. 402.
Jones, Thomas W., Cincinnati, Ohio. Pressing-cloths. No. 130,194; Apr. 13; v. 273; p. 402.
Kabo Corset Company, Chicago, Ill. Sheet-metal fasteners for corsets, rubber button-bases, &c. No. 130,195; Apr. 13; v. 273; p. 402.
Kleckner, Philip, New York, N. Y. Vegetable food compound. No. 130,196; Apr. 13; v. 273; p. 402.
Knickerbocker Chocolate Company, Inc., New York, N. Y. No. 130,197; Apr. 13; v. 273; p. 402.
Knox Hat Company, Inc., New York, N. Y. Clothing. No. 130,198; Apr. 13; v. 273; p. 402.
Lenox Jewelry Co., Boston, Mass. Horological instruments. No. 130,199; Apr. 13; v. 273; p. 403.
Levy, Sidney, San Francisco, Calif. Garters, armbands, &c. No. 130,200; Apr. 13; v. 273; p. 403.
Lewis, Florence N., New York, N. Y. Face-powders. No. 130,201; Apr. 13; v. 273; p. 403.
Lewis Implement and Seed Company, Louisville, Ky. Garden, vegetable, and field seeds. No. 130,202; Apr. 13; v. 273; p. 403.
Libby, McNeill & Libby, Chicago, Ill. Corned beef. No. 130,203; Apr. 13; v. 273; p. 403.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 130,204; Apr. 13; v. 273; p. 403.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 130,206; Apr. 13; v. 273; p. 403.
Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt extract. No. 130,207; Apr. 13; v. 273; p. 403.
Lotus Cut Glass Company, Barnesville, Ohio. Articles formed of cut glass. No. 130,208; Apr. 13; v. 273; p. 403.
Mac-It Parts Company, Lancaster, Pa. Rivet-sets and metalworking punches. No. 130,209; Apr. 13; v. 273; p. 403.
Martin, Glenn L., Cleveland, Ohio. Automatic aircraft. No. 130,210; Apr. 13; v. 273; p. 403.
Mears Brothers Mfg. Co., Arkansas City, Kans. Steam-boilers. No. 130,211; Apr. 13; v. 273; p. 403.
Midwest Engine Co., Indianapolis, Ind. Tractors. No. 130,212; Apr. 13; v. 273; p. 403.
Miller, Fred, Brewing Co., Milwaukee, Wis. Non-intoxicating cereal malt beverage. No. 130,213; Apr. 13; v. 273; p. 403.
Monopole Vineyards Corp., New York, N. Y. Maltless non-alcohol fruit beverages. No. 130,214; Apr. 13; v. 273; p. 403.
Morley Button Manufacturing Company, Portland, Me., and Boston, Mass. Non-metallic buttons. No. 130,215; Apr. 13; v. 273; p. 403.
National Creosote Corporation, Oklahoma, Okla. Creosoted building material. No. 130,216; Apr. 13; v. 273; p. 403.
National Dairy Co., Toledo, Ohio. Evaporated milk. No. 130,217; Apr. 13; v. 273; p. 403.
New Merlin Cycle Co., Ltd., The, Birmingham, England. Motor-cars. No. 130,218; Apr. 13; v. 273; p. 403.
Nickey Brothers, Inc., Binghamton, Tenn. Lumber and veneers. No. 130,219; Apr. 13; v. 273; p. 403.
Omaha Flour Mills Co., Omaha, Nebr. Flour. No. 130,220; Apr. 13; v. 273; p. 403.
Pascall, James, Ltd., London, England. Boiled sugar-drops, bonbons, &c. No. 130,221; Apr. 13; v. 273; p. 403.
Phoenix Glass Company, Pittsburgh, Pa. Glass lighting-fixtures. No. 130,222; Apr. 13; v. 273; p. 403.
Phoenix-Hermetic Company, Chicago, Ill. Glass jars. No. 130,223; Apr. 13; v. 273; p. 403.
Plainwell Canning & Preserving Company, Plainwell, Mich. Certain named foods. No. 130,224; Apr. 13; v. 273; p. 403.
Powdered Coal Engineering & Equipment Company, Chicago, Ill. Powdered fuel made of coal. No. 130,225; Apr. 13; v. 273; p. 403.
Probst, Emil, Brooklyn, N. Y. Icing for cake and bread. No. 130,226; Apr. 13; v. 273; p. 403.
Quinby, W. S., Company, Boston, Mass. Tea. No. 130,227; Apr. 13; v. 273; p. 403.
Rice Cereal Company, New Haven, Ind. Wheat-flour. No. 130,228; Apr. 13; v. 273; p. 403.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Maltless beverages. No. 130,229; Apr. 13; v. 273; p. 403.
Robinson Milling Co., Salina, Kans. Wheat-flour. No. 130,230; Apr. 13; v. 273; p. 403.
Roe, A. V., & Co., Ltd., Manchester, England. Cover-clips, strut-sockets, &c., for aircraft, aircraft-seats. No. 130,231; Apr. 13; v. 273; p. 403.
Rolls-Royce, Limited, Derby, England. Internal-combustion engines. No. 130,232; Apr. 13; v. 273; p. 403.
Ruetly Bros., Dover, Ohio. Coffee. No. 130,233; Apr. 13; v. 273; p. 404.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 130,234; Apr. 13; v. 273; p. 404.
Shaler, C. A., Company, Waupun, Wis. Lenses for automobile-headlights. No. 130,235; Apr. 13; v. 273; p. 404.
Simpson Bros. Corporation, Boston, Mass. Bituminous pavements. No. 130,236; Apr. 13; v. 273; p. 404.
Spiropoulos, Basil J., New York, N. Y. Olive-oil. No. 130,237; Apr. 13; v. 273; p. 404.
Stein, A., & Company, Chicago, Ill. Garters, hose-supporters, and armbands. No. 130,238; Apr. 13; v. 273; p. 404.
Tolerton & Warfield Co., Sioux City, Iowa. Foods. No. 130,239; Apr. 13; v. 273; p. 404.
Ultramares Corporation, New York, N. Y. Leather. No. 130,240; Apr. 13; v. 273; p. 404.
Ultramares Corporation, New York, N. Y. Dress-fasteners. No. 130,241; Apr. 13; v. 273; p. 404.
Ultramares Corporation, New York, N. Y. Building-cement. No. 130,242. Apr. 13; v. 273; p. 404.
United Brush Manufactories, New York, N. Y. Brushes used as sash-tools. No. 130,243; Apr. 13; v. 273; p. 404.
Worcester, Walden, Inc., Worcester, Mass. Wrenches. No. 130,244; Apr. 13; v. 273; p. 404.
Walsh, Thomas A., Yonkers, N. Y. Bacteriological culture of Bacillus bulgaricus for diarrhea in chicks and fowls. No. 130,245; Apr. 13; v. 273; p. 404.
Warner Lenz Company, (now by change of name Warner-Patterson Company,) Chicago, Ill. Light refracting or diffusing glasses for headlights. No. 130,246; Apr. 13; v. 273; p. 404.
Warner-Patterson Company. (See Warner Lenz Company.)
Whittle & Mutch, Philadelphia, Pa. Non-alcoholic non-cereal maltless beverages and syrups, colors, and flavors. No. 130,247; Apr. 13; v. 273; p. 404.
Wight Investment Company, The, Denver, Colo. Carburetors and mixing-manifolds for internal-combustion engines. No. 130,248; Apr. 13; v. 273; p. 404.
Winslow, Alfred F., New York, N. Y. Metal discount-check. No. 130,249; Apr. 13; v. 273; p. 404.
Winter, Michael, Orange, N. J. Non-alcoholic beverages. No. 130,250; Apr. 13; v. 273; p. 404.
Zweibach, Albert, New York, N. Y. Polish for furniture, automobiles, and other varnished surfaces. No. 130,251; Apr. 13; v. 273; p. 404.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bailey, B. F., & Co., New York, N. Y. "Novelite Spreads." (For Bedspreads.) No. 21,777; Apr. 13; v. 273; p. 405.

Cowan, Earl, Co., Inc., Los Angeles, Calif. "Cowan's Preferred Coffee." (For Coffee.) No. 21,778; Apr. 13; v. 273; p. 405.

Dwinell-Wright Company, Boston, Mass. "Falls." (For Coffee.) No. 21,779; Apr. 13; v. 273; p. 405.

Dwinell-Wright Company, Boston, Mass. "Star & Crescent." (For Coffee.) No. 21,780; Apr. 13; v. 273; p. 405.

Dwinell-Wright Company, Boston, Mass. "School House." (For Coffee.) No. 21,781; Apr. 13; v. 273; p. 405.

Ex-Zact Food Products Co., Milwaukee, Wis. "The Drink that Kept Milwaukee Famous." (For Fruit Nectar.) No. 21,782; Apr. 13; v. 273; p. 405.

Graef & Russell, New York, N. Y. "The Fly Catcher U-Hang-Up." (For Fly Catchers of Paper-Ribbon type.) No. 21,783; Apr. 13; v. 273; p. 405.

Handler, Jacob, Brooklyn, N. Y. "J. Handler Lacoin." (For Stains and Varnishes.) No. 21,784; Apr. 13; v. 273; p. 405.

International Company, The, Baltimore, Md. "Quick Whip." (For an Egg Product.) No. 21,785; Apr. 13; v. 273; p. 405.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Shredded Krumbles." (For Shredded Krumbles.) No. 21,786; Apr. 13; v. 273; p. 405.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Roasted Korn Krisp." (For Roasted Korn Krisp.) No. 21,787; Apr. 13; v. 273; p. 405.

Keystone Fruit Products Co., Cincinnati, Ohio. "Keystone Brand." (For Cherries.) No. 21,788; Apr. 13; v. 273; p. 405.

Krantz Products Company, The, Findlay, Ohio. "Old Dutch." (For Non-Intoxicating Cereal Beverage.) No. 21,789; Apr. 13; v. 273; p. 405.

Magnolia Cigar Company, Brooklyn, N. Y. "Magnolia." (For Cigars.) No. 21,790; Apr. 13; v. 273; p. 405.

Mandabach, Peter A., Chicago, Ill. "Mentho-Malted Horehound Kisses." (For Hoarhound Kisses.) No. 21,791; Apr. 13; v. 273; p. 405.

Mandabach, Peter A., Chicago, Ill. "Laxative Chocolate Bar." (For Laxative Chocolate Bars.) No. 21,792; Apr. 13; v. 273; p. 405.

Mandabach, Peter A., Chicago, Ill. "Charcoal Tooth Paste." (For Tooth-Paste.) No. 21,793; Apr. 13; v. 273; p. 405.

Milwaukee Paper Box Company, Milwaukee, Wis. "Candles." (For Candy.) No. 21,794; Apr. 13; v. 273; p. 405.

Northwest Evaporating Company, Cashmere, Wash. "Evaporated Washington Apples." (For Evaporated Apples.) No. 21,795; Apr. 13; v. 273; p. 405.

Putnam, Alfred, & Company, New York, N. Y. "Thurber's Windham Corn." (For Canned Corn.) No. 21,796; Apr. 13; v. 273; p. 405.

Putnam, Alfred, & Company, New York, N. Y. "Thurber's Bartlett Pears." (For Canned Bartlett Pears.) No. 21,797; Apr. 13; v. 273; p. 405.

Shine-Easy Shoe Polish Company, Chicago, Ill. "Jetto Black Dye." (For Black Dyes.) No. 21,798; Apr. 13; v. 273; p. 405.

Shine-Easy Shoe Polish Company, Chicago, Ill. "Shine-Easy Shoe Polish." (For Shoe-Polish.) No. 21,799; Apr. 13; v. 273; p. 405.

Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Mustard Dressing." (For Sardines.) No. 21,800; Apr. 13; v. 273; p. 405.

Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Oil." (For Sardines.) No. 21,801; Apr. 13; v. 273; p. 405.

Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. "Vogt's Philadelphia Scrapple." (For Scrapple.) No. 21,802; Apr. 13; v. 273; p. 405.

Walker-Matteson Co., Joliet, Ill. "Armory Brand." (For Canned Food Products.) No. 21,803; Apr. 13; v. 273; p. 405.

Weiser Air Storage Co., Weiser, Idaho. "Overland." (For Apples.) No. 21,804; Apr. 13; v. 273; p. 405.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Bennett, Jacob, Inc., Norfolk, Va. "Bankers' Diamond Selection Service." (For Diamonds.) No. 5,240; Apr. 13; v. 273; p. 406.

Martin Calf Feed Company, Mineral Point, Wis. "Learning to Drink Martin's Calf Feed." (For Calf Feed.) No. 5,241; Apr. 13; v. 273; p. 406.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. plays such a glad tune in that old jimmy pipe." (For Smoking-Tobacco.) No. 5,242; Apr. 13; v. 273; p. 406.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You've got 'em Breaking Right." (For Smoking-Tobacco.) No. 5,243; Apr. 13; v. 273; p. 406.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. has such a joy'us way of making men glad about jimmy pipes!" (For Smoking-Tobacco.) No. 5,244; Apr. 13; v. 273; p. 406.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

(REGISTRATION APPLIED FOR.)

Acme Packing Company, Chicago, Ill. Canned pork and beans, apple-butter, jams, jellies, and preserves. No. 127,023; Apr. 13; v. 273; p. 389.

Acme Phonograph Company of Kansas City, Kansas City, Mo. Phonographs and records. No. 125,678; Apr. 13; v. 273; p. 378.

Admiration Hosiery Co., Inc., New York, N. Y. Hosiery. No. 127,206; Apr. 13; v. 273; p. 391.

Albaugh-Dover Company, Chicago, Ill. Laundry-washing machines. No. 127,046; Apr. 13; v. 273; p. 390.

Albrecht, Elizabeth J., Prosser, Wash. Salve for treatment of la grippe, boils, burns, ulcers, affections of liver and kidneys, &c. No. 124,508; Apr. 13; v. 273; p. 371.

Allied Machinery Company of America, New York, N. Y. Acetylene cutting and welding machines, acetylene lighting plants, and steam-boilers. No. 124,244; Apr. 13; v. 273; p. 370.

Ammen, Chas., Co. Ltd., Alexandria, La. Baby-powder. No. 126,609; Apr. 13; v. 273; p. 386.

American Agricultural Chemical Company, The, New York, N. Y. Fertilizer. No. 118,537; Apr. 13; v. 273; p. 360.

Amer Knitting Mills, Inc., New York, N. Y. Sweaters, bathing-suits. No. 116,400; Apr. 13; v. 273; p. 358.

American Candy Company, Milwaukee, Wis. Candy. No. 128,191; Apr. 13; v. 273; p. 397.

American Candy Manufacturing Co., Selma, Ala. Candy. No. 128,193; Apr. 13; v. 273; p. 397.

American Dairy Supply Company, Augusta, Me., and Washington, D. C. Paper-material disks for closing receptacles. No. 127,531; Apr. 13; v. 273; p. 393.

American Italian Trading Company, McDonnell, Truda & Berlingieri, New York, N. Y. Boots and shoes of leather, leather and canvas, canvas with rubber soles, and rubbers. No. 123,782; Apr. 13; v. 273; p. 368.

American Musical Supply Co., Jersey City, N. J. Tuning-pins. No. 123,566; Apr. 13; v. 273; p. 368.

American Novelty Wash Suit Co., Inc., New York, N. Y. Boys' outer clothing. No. 120,864; Apr. 13; v. 273; p. 361.

American Papeterie Company, Albany, N. Y. Mailing and correspondence envelops, writing papers and tablets. No. 125,594; Apr. 13; v. 273; p. 377.

American-Swiss Watch Co., Inc., Peekskill, N. Y. Watches, watch-movements, watchcases, and parts thereof. No. 125,072; Apr. 13; v. 273; p. 374.

American Writing Paper Co., Holyoke, Mass. Printing and writing paper. Nos. 126,346–7; Apr. 13; v. 273; p. 384.

Andell, Hannah B., Williams Bay, Wis. Hand-lotion. No. 102,761; Apr. 13; v. 273; p. 354.

Angier Mechanical Laboratories, Framingham, Mass. Duplex crinkled or craped paper for wrapping tires and other articles. No. 126,436; Apr. 13; v. 273; p. 385.

Atchison Mills Corporation, The, Atchison, Kans. Wheat-flour. No. 128,291; Apr. 13; v. 273; p. 398.

Austen Cologne Company, The, New York, N. Y. Mouth-wash. No. 125,647; Apr. 13; v. 273; p. 378.

Auto Indicator Company, Grand Rapids, Mich. Mechanically-operated traffic-signals for vehicles. No. 121,227; Apr. 13; v. 273; p. 362.

Avery, B. F., & Sons, Louisville, Ky. Non-metallic ropes, fiber cords, and twines. No. 127,348; Apr. 13; v. 273; p. 392.

Bachmann, Jacob, New York, N. Y. Waterproof leather belting. No. 123,018; Apr. 13; v. 273; p. 365.

Bahnsen, C., & Co., Inc., New York, N. Y. Ladies' knitted dress goods known as Jersey cloth in the piece. No. 126,842; Apr. 13; v. 273; p. 388.

Baird, David, and Son, Louisville, Ky. Women's, misses', and children's trimmed hats. No. 126,442; Apr. 13; v. 273; p. 385.

Baker, R. & L., Company, The, Cleveland, Ohio. Automobiles — namely, electric passenger-vehicles and trucks. No. 119,543; Apr. 13; v. 273; p. 360.

Barbe, Alfred M., New York, N. Y. Woven, printed, and dyed drapery fabrics. No. 126,894; Apr. 13; v. 273; p. 389.

Barr, J. E., Pickling and Preserving Company, St. Cloud, Minn. Canned vegetables. Nos. 128,134–6; Apr. 13; v. 273; p. 397.

Barrett Company, The, New York, N. Y. Bituminous paint. No. 118,985; Apr. 13; v. 273; p. 360.

Bartlett, James R., New York, N. Y. Watch and clock dials. No. 122,957; Apr. 13; v. 273; p. 264.

Beauchamp, Joseph O., Springfield, Mass. Antiseptic for use in the nose. No. 123,300; Apr. 13; v. 273; p. 366.

Berkwits, Max, New York, N. Y. Coats for young boys and girls. No. 126,163; Apr. 13; v. 273; p. 381.

Best Beverage & Specialty Co. Inc., Louisville, Ky. Malt-less non-alcoholic non-cereal beverage. No. 122,622; Apr. 13; v. 273; p. 364.

Bierhaus, John S., Vincennes, Ind. Table-syrup. No. 127,627; Apr. 13; v. 273; p. 393.

Biltwell Glove Company, The, Toledo, Ohio. Gloves. No. 124,587; Apr. 13; v. 273; p. 371.

Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 127,204; Apr. 13; v. 273; p. 391.

Blick Typewriter Company, The. (See Blickensderfer Manufacturing Company, The.)

Blickensderfer Manufacturing Company, The, (now by judicial change of name The Blick Typewriter Company,) Stamford, Conn. Typewriters. No. 124,638; Apr. 13; v. 273; p. 371.

Block & Kuhl Company, Peoria, Ill. Dry, paste, and ready-mixed paints. No. 108,372; Apr. 13; v. 273; p. 354.

Bloom, William, & Co., Inc., New York, N. Y. Men's, women's, and children's suits, coats, vests, knitted underwear, men's and boys' overcoats, trousers, &c. No. 124,095; Apr. 13; v. 273; p. 369.

Blue Ridge Metals Corporation, Roanoke, Va., and Pittsburgh, Pa. Alloy and castings and forgings made therefrom. No. 124,783; Apr. 13; v. 273; p. 372.

Boone Tire & Rubber Company, Chippewa Falls, Wis. Automobile-casings of rubber and canvas. No. 121,440; Apr. 13; v. 273; p. 363.

Borgfeldt, George, & Co., New York, N. Y. Glassware, covered jars, vases, candlesticks, &c. No. 120,659; Apr. 13; v. 273; p. 361.

Braunberg, Max, Brooklyn, N. Y. Hair-restorer. No. 123,603; Apr. 13; v. 273; p. 368.

Brown Chemical Co., The, St. Louis, Mo. Food-flavoring creams and nutmeg. No. 127,889; Apr. 13; v. 273; p. 395.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes for boys and girls, made of leather and canvas. No. 128,076; Apr. 13; v. 273; p. 396.

Burckett, Maxwell K., Newark, N. J. Monthly magazine. No. 122,960; Apr. 13; v. 273; p. 364.

Burton, Oliver M., Chicago, Ill. Toys—namely, children's vehicles and blocks. No. 126,002; Apr. 13; v. 273; p. 380.

Bury Compressor Company, Erie, Pa. Compressor-valves. No. 126,302; Apr. 13; v. 273; p. 383.

Buster Manufacturing Company, Pittsburgh, Pa. Toy velocipedes. No. 119,333; Apr. 13; v. 273; p. 360.

Butler, Charles A., Toledo, Ohio. Chemical carbon-preventive or gas-intensifier for hydrocarbon liquid fuels. Nos. 124,844–5; Apr. 13; v. 273; p. 372.

Buxton & Skinner Printing & Stationery Co., St. Louis, Mo. Writing-paper. No. 116,295; Apr. 13; v. 273; p. 358.

Carbona Products Company, New York, N. Y. Chemical fire-extinguishing compound. No. 124,167; Apr. 13; v. 273; p. 370.

Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 128,664; Apr. 13; v. 273; p. 399.

Carver-Beaver Yarn Co., Inc., New York, N. Y. Knitting-yarn. No. 127,796; Apr. 13; v. 273; p. 394.

Chaplin & Company, Hammond, Ind., and Chicago, Ill. Dairy and stock feed. No. 115,372; Apr. 13; v. 273; p. 357.

Chapman, Frank, Providence, R. I. Alcohol-stoves. No. 122,340; Apr. 13; v. 273; p. 363.

Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 104,353; Apr. 13; v. 273; p. 354.

Cisco, Inc., New York, N. Y. Hosiery, knitted neckties, mufflers, &c. No. 127,170; Apr. 13; v. 273; p. 390.

Clack, H. Earl, Company, Havre, Mont. Kerosene. No. 126,991; Apr. 13; v. 273; p. 389.

Cleroline Chemical Co. Inc., New York, N. Y. Chemical compound for keeping wind-shield or glass clear. No. 123,157; Apr. 13; v. 273; p. 366.

Cleveland-Akron Bag Company, The, Cleveland, Ohio. Composition strips and sheets for building and roofing purposes. No. 127,034; Apr. 13; v. 273; p. 389.

Cleveland-Akron Bag Co., The, Cleveland, Ohio. Sheets made of comminuted textile and fibrous material for waterproof protection, building and roofing purposes. No. 112,868; Apr. 13; v. 273; p. 355.

Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments, automobile-coats, bath-wraps, &c. No. 127,036; Apr. 13; v. 273; p. 389.

Commonwealth Thread Co. Inc., Boston, Mass. Thread used in the manufacture of shoes and known as "shoe-thread." Nos. 124,974–5; Apr. 13; v. 273; p. 373.

Conard & Jones Company, The, West Grove, Pa. Rose-plants. No. 124,842; Apr. 13; v. 273; p. 372.

Continental Seed Company, Chicago, Ill. Grass and field seeds. No. 125,773; Apr. 13; v. 273; p. 378.

Cook, Charles K., Incorporated, Camden, N. J. Pocket-books, card and ticket cases, handbags, portfolios, &c. No. 114,946; Apr. 13; v. 273; p. 356.
Crary Brokerage Company, Waukesha, Wis. Canned vegetables—namely, peas and corn. No. 126,851; Apr. 13; v. 273; p. 388.
Croker Packing Co., San Francisco, Calif. Canned fruits, vegetables, and jams. No. 126,506; Apr. 13; v. 273; p. 385.
Crown Packing Company, Los Angeles, Calif. Fresh vegetables. No. 127,900; Apr. 13; v. 273; p. 395.
Cumberland (Aylestone) Limited, Leicester, England. Fishing-tackle. No. 123,303; Apr. 13; v. 273; p. 367.
Cushing, J., Co., Fitchburg, Mass. Poultry and stock feeds. No. 126,099; Apr. 13; v. 273; p. 381.
Cutler Desk Co., Buffalo, N. Y. Office furniture. No. 118,829; Apr. 13; v. 273; p. 360.
Danda-Halpern Co., Inc., New York, N. Y. Hand-bags. No. 123,971; Apr. 13; v. 273; p. 369.
Darst, James C., Portsmouth, Va. Pockets for garments. No. 127,425; Apr. 13; v. 273; p. 395.
Davis & Lawrence Company, New York, N. Y. Menthol salve. No. 123,432; Apr. 13; v. 273; p. 367.
Davis, Charles C., Chicago, Ill. Clotheslines. No. 127,902; Apr. 13; v. 273; p. 395.
Davis, Charles C., Chicago, Ill. Twines, string, and cordage of cotton, jute, hemp, and flax. No. 111,721; Apr. 13; v. 273; p. 355.
Davis, Lester H., Lindsborg, Kans. Coffee. No. 127,798; Apr. 13; v. 273; p. 394.
De Geonaga, Augusto H., Detroit, Mich. Tooth-paste. No. 126,563; Apr. 13; v. 273; p. 386.
Delicine Products Company. (See Wilder, John W., assignor.)
Delite Manufacturing Co., The, Bryan, Ohio. Clothes-washing machines. No. 127,283; Apr. 13; v. 273; p. 392.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Refined and unrefined fats produced by the hydrogenation of vegetable and animal oils. No. 123,310; Apr. 13; v. 273; p. 367.
Dental Products Company, Chicago, Ill. Hypodermic syringes and needles, surgical forceps, &c. No. 126,245; Apr. 13; v. 273; p. 382.
De Pills, F. A., Mattoax, Va. Cigars, cigarettes, chewing and smoking tobacco. No. 123,204; Apr. 13; v. 273; p. 366.
Detroit Soluble Oil Co., Detroit, Mich. Core-oils and adhesive core compounds. No. 124,206; Apr. 13; v. 273; p. 370.
Diller Mfg. Co., The, Bluffton, Ohio. Fireless cookers. No. 128,765; Apr. 13; v. 273; p. 399.
Don-O-Lac Co., Inc., The, Rochester, N. Y. Prepared liquid varnish resembling shellac. No. 125,950; Apr. 13; v. 273; p. 379.
Dorsett, W. C., Macon, Ga. Cake-flour. No. 125,948; Apr. 13; v. 273; p. 379.
Dungan, Hood & Co., Inc., Philadelphia, Pa. Leather and particularly kid leather. No. 123,022; Apr. 13; v. 273; p. 365.
Duttenhofer-Stevens Co., The, Cincinnati, Ohio. Women's high and low shoes, of leather and cloth. No. 126,013; Apr. 13; v. 273; p. 380.
Ely & Walker Dry Goods Company, St. Louis, Mo. Jumpers and overalls. No. 117,451; Apr. 13; v. 273; p. 359.
Ely & Walker D. G. Co., St. Louis, Mo. Laces and embroideries in the piece. No. 113,445; Apr. 13; v. 273; p. 356.
Ely & Walker Dry Goods Company, St. Louis, Mo. Pajamas and nightgowns. No. 119,703; Apr. 13; v. 273; p. 360.
Empire Bakers Specialty Co., New York, N. Y. Eggs in powdered form. No. 127,964; Apr. 13; v. 273; p. 396.
Evans, David G., Coffee Co., St. Louis, Mo. Coffee, tea, spices, salad-oil and dressing, and flavoring extracts. No. 127,637; Apr. 13; v. 273; p. 394.
Everett Knitting Works, Lebanon, N. H. Men's, women's, and children's knitted underwear. No. 127,717; Apr. 13; v. 273; p. 394.
Everts, Olney W., Elmira, N. Y. Wheat and pancake flour. No. 128,204; Apr. 13; v. 273; p. 398.
Fair, The, Chicago, Ill. Hosiery. No. 126,568; Apr. 13; v. 273; p. 386.
Faire Bros. & Co., Limited, Leicester, England. Elastic webs. No. 117,654; Apr. 13; v. 273; p. 359.
Farm Equipment Co., The, Baltimore, Md. Corn, feed, and grain bins, hog-feeders, troughs, and silo-chutes. No. 126,683; Apr. 13; v. 273; p. 387.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 123,846; Apr. 13; v. 273; p. 368.
Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 128,923; Apr. 13; v. 273; p. 399.
Feldman, Manuel, New York, N. Y. Rag and grass rugs. No. 124,100; Apr. 13; v. 273; p. 369.
Ferguson, H. K., Company, Cleveland, Ohio. Permanent buildings and structural elements thereof. No. 124,301; Apr. 13; v. 273; p. 371.
Fink, Geo. A., Co., New York, N. Y. Brooms, brushes, and mops. No. 126,176; Apr. 13; v. 273; p. 381.
Fort Pitt Malleable Iron Co., Pittsburgh and McKees Rocks Pa. Malleable-iron castings. No. 124,174; Apr. 13; v. 273; p. 370.
Fowler Nail Co., The, Seymour, Conn. Molder's nails, used in metal-foundries. No. 127,856; Apr. 13; v. 273; p. 395.
Fox, Frank M., & Co., Saegertown, Pa. Carbonated laxative. No. 126,017; Apr. 13; v. 273; p. 380.
Framingham Manufacturing Company, Framingham, Mass. Metal valves for general use, pump-governors, and pressure-reducing valves. No. 124,046; Apr. 13; v. 273; p. 369.
Frank, Maurice, New York, N. Y. Bales or bags of waste cotton, silk, and woolen rags and waste paper. No. 124,853; Apr. 13; v. 273; p. 372.
Franklin Baker Company, The, Philadelphia, Pa. Packaged, grated, and shredded cocoanut. No. 126,958; Apr. 13; v. 273; p. 389.
Friedrich, Joseph J., St. Louis, Mo. Leather belting. No. 122,430; Apr. 13; v. 273; p. 364.
Fredericks, Maurice B., New York, N. Y. Paper fiber. No. 125,176; Apr. 13; v. 273; p. 375.
Friend, Lewis, New York, N. Y. Skin-emollient. No. 125,177; Apr. 13; v. 273; p. 375.
Frishmuth Bro. & Company, Incorporated, Philadelphia, Pa. Cigarettes. No. 116,155; Apr. 13; v. 273; p. 358.
Fybush, Moses F., Los Angeles, Calif. Phonographs. No. 121,298; Apr. 13; v. 273; p. 362.
Geer Drug Company, The, Charleston, S. C. Skin-cream. No. 120,531; Apr. 13; v. 273; p. 361.
General American Tank Car Corporation, Chicago, Ill. Tank-cars. No. 126,469; Apr. 13; v. 273; p. 385.
George, Maude S., St. Louis, Mo. Armpit dress-shields and diaper-supporters. No. 127,121; Apr. 13; v. 273; p. 390.
Georgis, George T., New York, N. Y. Soap. No. 120,958; Apr. 13; v. 273; p. 361.
Girten, Christian P., Chicago, Ill. Medical compound for gum diseases. No. 126,470; Apr. 13; v. 273; p. 385.
Goldman, John, Philadelphia, Pa. Coloring for the hair. No. 126,320; Apr. 13; v. 273; p. 383.
Grafton and Knight Manufacturing Company, The, Worcester, Mass. Leather belting. No. 117,667; Apr. 13; v. 273; p. 359.
Graham, Percy, Chicago, Ill. Skin-astringent. No. 126,019; Apr. 13; v. 273; p. 380.
Grand Union Tea Co., Brooklyn, N. Y. Candy. No. 125,838; Apr. 13; v. 273; p. 379.
Granitex Company, Inc., New York, N. Y. Preparation for hardening and waterproofing cement mixtures. No. 126,178; Apr. 13; v. 273; p. 382.
Grant, W. T., Co., New York, N. Y. Hosiery. No. 128,045; Apr. 13; v. 273; p. 396.
Grawcock, Oscar D., Churubusco, Ind. Hog-tonic. No. 126,363; Apr. 13; v. 273; p. 384.
Great Atlantic and Pacific Tea Company, The Jersey City, N. J. Baking-powder. No. 126,319; Apr. 13; v. 273; p. 383.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Baking-powder, soda, cream of tartar, ammonia, and liquid blue. No. 126,317; Apr. 13; v. 273; p. 383.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Corn, tomatoes, beets, sauer-kraut, pears, peaches, &c. Nos. 126,667–8; Apr. 13; v. 273; p. 387.
Griffin M'f'g Co. Inc., New York, N. Y. Shoe-polish. No. 113,290; Apr. 13; v. 273; p. 356.
Gross, Samuel L., New York, N. Y. Handkerchiefs. No. 123,282; Apr. 13; v. 273; p. 366.
Gruen, D., Sons & Company, The, Cincinnati, Ohio. Watches. No. 109,766; Apr. 13; v. 273; p. 355.
Guiterman Rosenfeld & Company, New York, N. Y. Men's, women's, and children's shoes, hosiery, knitted underwear, and men's collars. No. 124,139; Apr. 13; v. 273; p. 370.
Haber, Isidor, Brooklyn, N. Y. Olive-oil. No. 123,283; Apr. 13; v. 273; p. 366.
Hairine Products Co., Philadelphia, Pa. Salve composition for straightening hair. No. 125,111; Apr. 13; v. 273; p. 374.
Halle-Ferris Trading Corporation, New York, N. Y. Cigarettes. No. 123,025; Apr. 13; v. 273; p. 365.
Hand Knit Hosiery Co., Sheboygan, Wis. Men's and women's knit vests, knit comfy sets for infants and children, bathing-suits, &c. No. 121,976; Apr. 13; v. 273; p. 363.
Harley, E. C., Company, The, Dayton, Ohio. Coffee. Nos. 127,914–16; Apr. 13; v. 273; p. 395.
Harris, Abraham, New York, N. Y. Fountain-pens. No. 126,213; Apr. 13; v. 273; p. 382.
Harrod's Stores, Limited, London, England. Carpets. No. 126,026; Apr. 13; v. 273; p. 380.
Hasel Leo, San Francisco, Calif. Heel and toe plates for shoes. No. 124,408; Apr. 13; v. 273; p. 371.
Havens, Clara V., New York, N. Y. Brassières. No. 127,244; Apr. 13; v. 273; p. 391.
Hawley & Hoops, New York, N. Y. Candles. No. 128,301; Apr. 13; v. 273; p. 398.
Heinrich, Edward O., Boulder, Colo. Medical preparation for internal use for intestinal and urethral asepsis. No. 112,861; Apr. 13; v. 273; p. 355.
Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. No. 126,180; Apr. 13; v. 273; p. 382.
Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. No. 126,216; Apr. 13; v. 273; p. 382.
Hemp & Co. (Corp.), St. Louis, Mo. Stovepipe and stovepipe-elbow. No. 126,251; Apr. 13; v. 273; p. 382.

Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. No. 127,645; Apr. 13; v. 273; p. 394.
Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegtables. No. 127,649; Apr. 13; v. 273; p. 394.
Hermo Co., Chicago, Ill. Toilet preparations—namely, liquid rouge, nail-polish, face-powder, &c. No. 126,034; Apr. 13; v. 273; p. 380.
Hicks, Herma L., Rocky Mount, N. C. Medicinal preparation for diseases of the stomach, liver, kidneys, &c. No. 123,852; Apr. 13; v. 273; p. 368.
Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Middy-blouses and envelop-chemise. No. 111,869; Apr. 13; v. 273; p. 355.
Hilker-Wiechers Manufacturing Co., The, Racine, Wis. Men's overalls and work-coats. No. 115,618; Apr. 13; v. 273; p. 357.
Hodge, Noah, Los Angeles, Calif. Liniment for neuralgia, rheumatism, coughs, catarrh, &c. No. 119,948; Apr. 13; v. 273; p. 360.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. Nos. 126,414–15; Apr. 13; v. 273; p. 384.
Holophane Glass Company, Inc., New York, N. Y. Glass globes and reflectors for artificial light. No. 108,712; Apr. 13; v. 273; p. 354.
Hulbert Oil & Grease Co., The, Philadelphia, Pa. Substitute for linseed-oil. No. 116,773; Apr. 13; v. 273; p. 359.
Humphreys Homeopathic Medicine Co., New York, N. Y. Homeopathic medicines for treatment of fever, coughs, colds, dispepsia, and disorder of the kidneys, &c. No. 124,270; Apr. 13; v. 273; p. 370.
Hunvald, Henry, New York, N. Y. Women's outer garments, except hats. No. 113,059; Apr. 13; v. 273; p. 355.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Candy confections, cocoas, chocolate, and chocolate products. Nos. 126,523–4; Apr. 13; v. 273; pp. 385–386.
Imperial Varnish and Color Company, Limited, The, Toronto, Ontario, Canada. Varnishes, wood-stains, lacquers, shellacs, &c. No. 125,331; Apr. 13; v. 273; p. 376.
International Couplers Company, Pittsburgh, Pa. Flexible and expansion pipe-joints, pipe-unions, &c. No. 118,149; Apr. 13; v. 273; p. 359.
International Harvester Company, Chicago, Ill. Rope, cord, twine, binder-twine. No. 125,957; Apr. 13; v. 273; p. 379.
International Sugar Feed Co., Minneapolis, Minn. Mixed grain for chick and poultry feed, grain products and concentrates for hogs and cattle feed. No. 108,851; Apr. 13; v. 273; p. 355.
Jameson, Jas. E., Detroit, Mich. Preparation for use in disorders arising from imperfect digestion, and when aid is required to increase digestive power, &c. No. 124,994; Apr. 13; v. 273; p. 374.
Jennings Lace Works Corporation, New York, N. Y. Dress-nets, millinery nettings, Jersey cloths in the piece, &c. No. 125,053; Apr. 13; v. 273; p. 374.
Jewell Belting Company, Hartford, Conn. Cotton and hair yarn belting, leather laces, leather and canvas beltings. No. 121,347; Apr. 13; v. 273; p. 362.
Johnson-Bostwick & Co., Minneapolis, Minn. Coats, outer vests, and work-shirts for men. No. 126,731; Apr. 13; v. 273; p. 388.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 124,111; Apr. 13; v. 273; p. 369.
Johnston, Wm. R., Mfg. Co., Chicago, Ill. Curtain-window of beveled plate-glass for automobiles. No. 106,261; Apr. 13; v. 273; p. 354.
Kahn Tailoring Company, Indianapolis, Ind. Raincoats. No. 110,926; Apr. 13; v. 273; p. 355.
Katzman, Louis, Inc., New York, N. Y. Shawl-coat. No. 127,247; Apr. 13; v. 273; p. 392.
Keystone Oil & Manufacturing Company, Chicago, Ill. Screw-cutting oils. No. 127,431; Apr. 13; v. 273; p. 393.
King Trailer Company, Ann Arbor, Mich. Semitrailers. No. 127,593; Apr. 13; v. 273; p. 393.
Klemperer, Gustav, New York, N. Y. Preparation for prevention and treatment of infectious diseases. No. 126,474; Apr. 13; v. 273; p. 385.
Knott, William C., Shreveport, La. Pneumatic-tire patch. No. 122,600; Apr. 13; v. 273; p. 364.
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese of various kinds. No. 127,249; Apr. 13; v. 273; p. 392.
Krolik, A., Company, Detroit, Mich., and New York, N. Y. Men's flannel, work, and night shirts and pajamas. No. 128,100; Apr. 13; v. 273; p. 397.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 116,573; Apr. 13; v. 273; p. 358.
L. and T. Company, The, Oakland, Calif. Table-syrup. No. 121,207; Apr. 13; v. 273; p. 362.
Lady Jefferson Candy Company, Birmingham, Ala. Candies. No. 126,934; Apr. 13; v. 273; p. 389.
La France, Ward, Truck Co. Inc., Elmira, N. Y. Motor-trucks. No. 126,608; Apr. 13; v. 273; p. 386.
La Rose Company, St. Louis, Mo. Ladies' shirt-waists. No. 116,269; Apr. 13; v. 273; p. 358.
Lehon Company, The, Chicago, Ill. Asphalt roofing in rolls and sheets, shingles, strips, and mastic flooring, &c. No. 125,190; Apr. 13; v. 273; p. 375.
Leoffler, S. G., Jr., Washington, D. C. Doughnuts. No. 127,229; Apr. 13; v. 273; p. 391.
Lewis, J. L., New York, N. Y. Collodion self-toning printing-out paper. No. 123,993; Apr. 13; v. 273; p. 369.
Liberty Boys' Knee Pants Co., New York, N. Y. Boys' pants and coats. No. 118,057; Apr. 13; v. 273; p. 359.
Locke, H. E., & Company Inc., Boston, Mass. Thread and yarn. No. 121,513; Apr. 13; v. 273; p. 363.
Longmont Farmers Milling & Elevator Company, The, Longmont, Colo. Self-rising flour. No. 101,151; Apr. 13; v. 273; p. 354.
Lorenzen, Chas. F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. No. 119,198; Apr. 13; v. 273; p. 360.
Lorenzen, Chas. F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. No. 119,522; Apr. 13; v. 273; p. 360.
Lorenzen, Chas. F., & Co., Chicago, Ill. Letters or numbers made of highly-glazed porcelain blocks. No. 119,740; Apr. 13; v. 273; p. 360.
Ludeman, Henry J. F., Pittsburgh, Pa. Bricks and building-blocks. No. 129,508; Apr. 13; v. 273; p. 399.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. No. 123,061; Apr. 13; v. 273; p. 365.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. No. 123,064; Apr. 13; v. 273; p. 365.
Lunkenheimer Company, The, Cincinnati, Ohio. Mechanical lubricators. No. 123,070; Apr. 13; v. 273; p. 366.
Mat Cleaner Manufacturing Company, Salt Lake City, Utah. Washing compound. No. 114,689; Apr. 13; v. 273; p. 356.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 125,966; Apr. 13; v. 273; p. 379.
Marans, Morris, Sons, New York, N. Y. Men's and young men's clothes. No. 118,270; Apr. 13; v. 273; p. 359.
Mattheson, Walker, Company, Joliet, Ill. Cigars. No. 126,603; Apr. 13; v. 273; p. 386.
Maxwell-Ray Company, Milwaukee, Wis. Electric lamps. No. 121,180; Apr. 13; v. 273; p. 362.
McKesson & Robbins, Incorporated, New York, N. Y. Medicinal preparations for external use in skin diseases, &c. No. 125,295; Apr. 13; v. 273; p. 375.
McKesson & Robbins, Incorporated, New York, N. Y. Medicinal preparations for external use, for rheumatism, sprains, sore throat, &c. No. 125,296; Apr. 13; v. 273; p. 375.
McKesson & Robbins, Incorporated, New York, N. Y. Medicinal preparations for germicidal purposes and affections of throat and mouth. No. 125,297; Apr. 13; v. 273; p. 375.
McKesson & Robbins, Incorporated, New York, N. Y. Preparations for repelling mosquitos and healing their bites. No. 125,298; Apr. 13; v. 273; p. 376.
McKesson & Robbins, Incorporated, New York, N. Y. Medicinal preparations for certain skin disorders and as a blood-purifier. No. 125,299; Apr. 13; v. 273; p. 376.
Merrell, William S., Company, The, Cincinnati, Ohio. Liquid heart-tonic. No. 126,647; Apr. 13; v. 273; p. 387.
Messayeh, Rizouk D., New York, N. Y. Cigarettes. No. 126,649; Apr. 13; v. 273; p. 387.
Metals & Thermit Corporation, Chrome, N. J. Tungsten. No. 127,657; Apr. 13; v. 273; p. 394.
Metzler, Jerome, New York, N. Y. Silks, satin, velvets, &c. No. 126,043; Apr. 13; v. 273; p. 381.
Michigan Lubricator Company, Detroit, Mich. Monthly publication. No. 122,647; Apr. 13; v. 273; p. 364.
Michigan Service Corporation, Jackson, Mich. Coal-burning heaters and furnaces. No. 125,556½; Apr. 13; v. 273; p. 377.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 128,361; Apr. 13; v. 273; p. 398.
Migel, J. A., Inc., New York, N. Y. Piece goods—namely, silks, satins, velvets, &c. No. 121,009; Apr. 13; v. 273; p. 361.
Miller Rubber Company, The, Akron, Ohio. Rubber water-bags and bottles. No. 125,964; Apr. 13; v. 273; p. 379.
Milling Products Co., The, Omaha, Nebr. Wheat-flour. No. 128,350; Apr. 13; v. 273; p. 398.
Milwaukee Bag Company, Milwaukee, Wis. Bags for use as receptacles. No. 126,135; Apr. 13; v. 273; p. 381.
Mitchell Hosiery Company, Columbus, Ohio. Hosiery. No. 123,251; Apr. 13; v. 273; p. 366.
Mitchell, Robert G., Mount Vernon, N. Y. Phonographs, talking-machines, sound-boxes, and needles therefor. No. 125,716; Apr. 13; v. 273; p. 378.
Mittelman, L., & Co., New York, N. Y. Ladies' and children's dresses. No. 123,553; Apr. 13; v. 273; p. 367.
Moadinger, Edgar L., New York, N. Y. Medicine for rheumatic ailments. No. 122,904; Apr. 13; v. 273; p. 364.
Moore, Edward, Brooklyn, N. Y. Miniature theaters. No. 115,882; Apr. 13; v. 273; p. 357.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit gloves. No. 127,385; Apr. 13; v. 273; p. 392.
Morgenstern & Company, New York, N. Y. Phenylcinchoninic acid. No. 125,666; Apr. 13; v. 273; p. 378.
Mowbray & Robinson Company, Wilmington, Del., and Cincinnati, Ohio. Lumber and hardwood flooring. No. 125,789; Apr. 13; v. 273; p. 378.
Mulholland, John H., Philadelphia, Pa. Wooden spoons. No. 125,114; Apr. 13; v. 273; p. 374.

National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 128,007-9; Apr. 13; v. 273; p. 396.

National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 128,011; Apr. 13; v. 273; p. 396.

National Brass Company, Grand Rapids, Mich. Drawpulls, tray and door handles, sash-lifts, hinges, &c. No. 124,227; Apr. 13; v. 273; p. 370.

National Builders Company, The, Cleveland, Ohio. Composition for making concrete slabs. No. 117,124; Apr. 13; v. 273; p. 359.

National Cocoanut Butter Company, Tacoma, Wash. Cocoanut-butter. No. 120,710; Apr. 13; v. 273; p. 361.

National Shoe Service Co., The, Elyria, Ohio. Liquid shoe-dressing, cleaner, and polish. No. 126,052; Apr. 13; v. 273; p. 381.

Nemser, Joseph, New York, N. Y. Gowns. No. 126,871; Apr. 13; v. 273; p. 389.

Neustadter Brothers, San Francisco, Calif. Woven and knitted union-suits for men, women, and children. No. 126,816; Apr. 13; v. 273; p. 388.

New Britain Machine Company, The, New Britain, Conn. Screw and chucking machines. No. 126,193; Apr. 13; v. 273; p. 382.

New Products Company, Pittsburgh, Pa. Paper and cloth strips or tapes as a substitute for twine, &c., and strip and tape moistening machines. No. 123,900; Apr. 13; v. 273; p. 369.

Norma Chocolate Company, Inc., Brooklyn, N. Y. Chocolate. No. 127,601; Apr. 13; v. 273; p. 393.

Norwalk Tire and Rubber Company, Inc., The, Norwalk, Conn. Elastic vehicle-tires. No. 125,162; Apr. 13; v. 273; p. 375.

Nulyne Laboratories, Jackson, Mich. Tooth-paste. No. 124,864; Apr. 13; v. 273; p. 372.

Omega Chemical Company, The, New York, N. Y. Shampoo preparation, cold cream, pomade, and a remedy for rheumatism, lumbago, sore throat, &c. No. 126,694; Apr. 13; v. 273; p. 387.

Osborn Paper Company, Marion, Ind. Writing and printing papers and writing-tablets. No. 125,721; Apr. 13; v. 273; p. 378.

Outlook Company, The, Cleveland, Ohio. Wind-shield cleaners of the squeegee type. No. 124,915; Apr. 13; v. 273; p. 373.

Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 127,873; Apr. 13; v. 273; p. 395.

Page, Handley, Limited, London, England. Aeroplane covers and tents. No. 126,860; Apr. 13; v. 273; p. 388.

Palmer, E. J., Chicago, Ill. Metal-polish. No. 123,658; Apr. 13; v. 273; p. 368.

Palmer, Fred D., New York, N. Y. Neckties and cravats. No. 126,393; Apr. 13; v. 273; p. 384.

Panafieu Pere et Fils, Paris, France. Hair-coloring for the eyebrows and skin. No. 126,331; Apr. 13; v. 273; p. 384.

Pauley, Roy, Schenectady, N. Y. Candy. No. 125,855; Apr. 13; v. 273; p. 379.

Parke, Davis & Company, Detroit, Mich. Germicide, disinfectant, antiseptic, &c. No. 125,669; Apr. 13; v. 273; p. 378.

Partola Distributing Company, New York, N. Y. Face-creams. No. 121,018; Apr. 13; v. 273; p. 362.

Partola Distributing Company, New York, N. Y. Laxative medicine in candy form. No. 123,172; Apr. 13; v. 273; p. 366.

Paterson, John T. H., Chicago, Ill. Closures or mouth-pieces for tobacco bags or pouches. No. 116,898; Apr. 13; v. 273; p. 359.

Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready-mixed paints, driers, enamels, wood-stains, and varnishes. No. 115,927; Apr. 13; v. 273; p. 358.

Phillips, Joseph J., Brooklyn, N. Y. Tooth-paste. No. 125,627; Apr. 13; v. 273; p. 377.

Phosphor Bronze Smelting Company, The, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronzes in-gots, castings, and finished forms. No. 108,657; Apr. 13; v. 273; p. 354.

Pioneer Overall Company, The, Paterson, N. J. Overalls. No. 111,658; Apr. 13; v. 273; p. 355.

Pockman, Leonard H., San Francisco, Calif. Laxative tablets. No. 123,220; Apr. 13; v. 273; p. 366.

Pompeian Mfg. Co., The, Cleveland, Ohio. Face-creams, face-powders, dentifrice, rouge, hair-tonic, &c. No. 124,730; Apr. 13; v. 273; p. 371.

Ponzio Brothers Cigar Co., New York, N. Y. Cigars. No. 115,663; Apr. 13; v. 273; p. 357.

Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 128,276; Apr. 13; v. 273; p. 398.

Progressive Cigar Corporation of Philadelphia, Philadelphia, Pa. Cigars. No. 126,424; Apr. 13; v. 273; p. 384.

Q. R. S. Company, Chicago, Ill. Talking-machine records. No. 127,226; Apr. 13; v. 273; p. 391.

Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory lining for furnace structures. No. 121,211; Apr. 13; v. 273; p. 362.

Rader, Frank A., Cleveland, Ohio. Polish for furniture and woodwork. No. 125,250; Apr. 13; v. 273; p. 375.

Radium Luminous Material Corporation, New York, N. Y. Self-luminous material, such as compounds containing zinc, sulfid, and radium. No. 124,954; Apr. 13; v. 273; p. 373.

Red Seal Rubber Manufacturing Co., Oklahoma, Okla. Inner-tube-repairing outfit. No. 123,366; Apr. 13; v. 273; p. 367.

Reed, Chas. H., New York, N. Y. Bunting. No. 127,098; Apr. 13; v. 273; p. 390.

Regal Polishing Cloth Co., Chicago, Ill. Polishing and wiping cloth. No. 121,993; Apr. 13; v. 273; p. 363.

Reichman & Faust, New York, N. Y. Composition hair-pins, wire hairpins, hair-fasteners, &c. No. 127,488; Apr. 13; v. 273; p. 393.

Reis, Robert, & Co., New York, N. Y. Knitted and textile underwear and hosiery. No. 126,696; Apr. 13; v. 273; p. 387.

Renneckar, Clarence E., Wilmette, Ill. Detergents, fluid for removing spots, cleaning wool, cotton, silk, and leather. No. 124,918; Apr. 13; v. 273; p. 373.

Reynolds & Reynolds Company, The, Dayton, Ohio. Paper tablets and note-books. No. 116,667; Apr. 13; v. 273; p. 358.

Ripley, Edward, & Son, Ltd., Bradford, England. Piece goods of wool and cotton. No. 122,498; Apr. 13; v. 273; p. 364.

Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 127,186; Apr. 13; v. 273; p. 390.

Roy, Laurent, Manchester, N. H. Cereal maltless beverage. No. 125,400½; Apr. 13; v. 273; p. 376.

Rupert, A., Company, Inc., Portland, Oreg. Canned fish, fruits, berries, and vegetables. No. 126,065; Apr. 13; v. 273; p. 381.

Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 122,612; Apr. 13; v. 273; p. 364.

Ryan-Eastman Co., The, Cedar Rapids, Ia. Carbon-removers. No. 126,197; Apr. 13; v. 273; p. 382.

Rylowski, Martin D., Cleveland, Ohio. Stomach-tonic. No. 120,066; Apr. 13; v. 273; p. 361.

Safety Night Light Company, Brooklyn, N. Y. Candles. No. 127,263; Apr. 13; v. 273; p. 392.

Sanaho Specialty Company, Phoenix, Ariz. Napkin-holders commercially known as sanitary belts. No. 125,630; Apr. 13; v. 273; p. 377.

Schaeffer, Charles P., Reading, Pa. Shoe-laces. No. 127,740; Apr. 13; v. 273; p. 388.

Schall, William, & Co., New York, N. Y. Drills and shirtings. No. 122,370; Apr. 13; v. 273; p. 363.

Schall's Inc., Clinton, Iowa. Chocolates. No. 128,280; Apr. 13; v. 273; p. 398.

Schlosser, M. & F., New York, N. Y. Writing and wrapping paper, cardboard, and paper mailing-envelops. No. 126,748; Apr. 13; v. 273; p. 388.

Schmid, Julius, Incorporated, New York, N. Y. Face-powder and rouges. Nos. 125,435-6; Apr. 13; v. 273; p. 376.

Schneider, Edmund, Co., Chicago, Ill. Polish for furniture, automobiles, and pianos. No. 115,817; Apr. 13; v. 273; p. 357.

Schreiber, Leon, Cleveland, Ohio. Women's aprons. No. 121,132; Apr. 13; v. 273; p. 362.

Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 127,935; Apr. 13; v. 273; p. 395.

Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 128,114; Apr. 13; v. 273; p. 397.

Schwarz, Max, New York, N. Y. Voiles in the piece. No. 125,036; Apr. 13; v. 273; p. 374.

Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 128,864; Apr. 13; v. 273; p. 399.

Sealright Company, Inc., Fulton, N. Y. Paper containers for food and other products, paper-body tubes, &c. No. 116,448; Apr. 13; v. 273; p. 358.

Sears, Roebuck and Co., Chicago, Ill. Rubber-soled shoes made of fabric and rubber. No. 124,015; Apr. 13; v. 273; p. 369.

Secrest, Ida L., Chanute, Kans. Hair-tonic. No. 121,817; Apr. 13; v. 273; p. 363.

Selby, John A., Camden, N. J. Powder for cleaning white shoes and clothing. No. 124,735; Apr. 13; v. 273; p. 371.

Self-Seating Valve Company, Chicago, Ill. Valves for internal-combustion engines. No. 128,468; Apr. 13; v. 273; p. 399.

Seminole Chemical Co., Binghamton, N. Y. Healing-ointment for wounds, abrasions, &c. No. 116,309; Apr 13; v. 273; p. 358.

Shaw, Theodore L., Boston, Mass. Sound-records. No. 127,336; Apr. 13; v. 273; p. 392.

Shoemaker & Busch, Philadelphia, Pa. Insecticides. No. 124,869; Apr. 13; v. 273; p. 372.

Shoninger, B., Co., New Haven, Conn. Pianos. No 126,396; Apr. 13; v. 273; p. 384.

Simeon & Elting, New York, N. Y. Wash-blue. No. 124,870; Apr. 13; v. 273; p. 373.

Skinner, Paul F., Omaha, Nebr. Macaroni, spaghetti, and noodles. No. 127,664; Apr. 13; v. 273; p. 394.

Smith & Clark Company, Wilkes-Barre and Scranton, Pa. Instantaneous cocoa in powdered form. No. 127,017; Apr. 13; v. 273; p. 389.

Smith, George B., Springfield, Ill. Composition floors and stuccos of magnesite base. No. 123,558; Apr. 13; v. 273; p. 367.

Smith, John R., Los Angeles, Calif. Dry composition for the treatment of influenza. No. 123,001; Apr. 13; v. 273; p. 365.

Sohn, Charles P., Towson, Md. Medicated capsules for headache. No. 125,066. Apr. 13; v. 273; p. 374.

Solomon, Mannie, Company, New York, N. Y. Ladies' and misses' dresses. No. 126,328; Apr. 13; v. 273; p. 384.

Sonora Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, gramophones, &c. No. 123,590; Apr. 13; v. 273; p. 368.

Southern Oil Corporation, Kansas City, Mo. Gasolene. No. 128,027; Apr. 13; v. 273; p. 396.

Special Chemicals Company, Highland Park, Ill. Salammoniac and soldering fluid. No. 126,703; Apr. 13; v. 273; p. 388.

Special Tool Engineering Manufacturing Company, Inc., The, Dayton, Ohio. Special-designed machinery and tools, dies, jigs, and parts thereof. No. 114,981; Apr. 13; v. 273; p. 356.

Spicer, Charles R., Memphis, Tenn. Liquid tonic and antiseptic powder. No. 126,596; Apr. 13; v. 273; p. 386.

Spirocide Corporation, New York, N. Y. Antiseptics. No. 126,291; Apr. 13; v. 273; p. 383.

Steelead Skylight Co., Seattle, Wash. Skylight-bars. No. 120,942; Apr. 13; v. 273; p. 361.

Stearns-Hollinshead Co., Portland, Oreg. Candies. No. 127,940; Apr. 13; v. 273; p. 396.

Steiner, Leopold, New York, N. Y. Electric lamps and radiators for therapeutic use. No. 125,441; Apr. 13; v. 273; p. 376.

Sterling Manufacturing Company, Chicago, Ill. House or apron dresses. No. 128,117; Apr. 13; v. 273; p. 397.

Stewart, George W., New York, N. Y. Novelty wind instrument. No. 125,633; Apr. 13; v. 273; p. 377.

Stitt Ignition Co., The, Columbus, Ohio. Spark-plugs. No. 122,088; Apr. 13; v. 273; p. 363.

Stocks, Clarence L., Blue Ridge, Ga. Antiseptic germicide and deodorant. No. 125,477; Apr. 13; v. 273; p. 376.

Stokes Seed Farms Company, Moorestown, N. J. Flower, field, and vegetable seeds of all descriptions. No. 123,560; Apr. 13; v. 273; p. 367.

Stone, Buford R., Reidsville, N. C. Laxative cold-tablets, cocoanut-oil shampoo, iron-rust and stain remover. No. 125,980; Apr. 13; v. 273; p. 379.

Stone, F. T., Mildura, Victoria, Australia. Herbaceous mixtures for treating asthma and other human diseases. No. 124,872; Apr. 13; v. 273; p. 373.

Stone, Junius H., New York, N. Y. Flexible-fabric-coating paint for acoustical work. No. 122,577; Apr. 13; v. 273; p. 364.

Stowe, Charles D., Asheville, N. C. Medicine for treatment of the liver and kidneys. No. 126,656; Apr. 13; v. 273; p. 387.

Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, writing, and bond paper, card and bristol board, &c. No. 124,737; Apr. 13; v. 273; p. 372.

Strauss, Levi, & Co., San Francisco, Calif. Clothing for boys. No. 125,866; Apr. 13; v. 273; p. 379.

Summit Thread Company, East Hampton, Conn. Mercerized-cotton thread or yarn. No. 126,292; Apr. 13; v. 273; p. 383.

Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. No. 120,721; Apr. 13; v. 273; p. 361.

Sun Company, Philadelphia, Pa. Oils, greases, naphthas, &c. No. 87,859; Apr. 13; v. 273; p. 353.

Sun Company, Philadelphia, Pa. Products of petroleum. No. 100,562; Apr. 13; v. 273; p. 353.

Suter, Eugene, & Company, New York, N. Y. Chemicals and chemical oils for the manufacture of fertilizer. No. 115,188; Apr. 13; v. 273; p. 357.

Talcum Puff Company, Brooklyn, N. Y. Toilet preparations, talcum powder. No. 126,599; Apr. 13; v. 273; p. 386.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 127,808; Apr. 13; v. 273; p. 394.

Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 127,812; Apr. 13; v. 273; p. 394.

Taylor-Friedsam Company, The, Paterson, N. J., and New York, N. Y. Silk ribbons in the piece. No. 127,269; Apr. 13; v. 273; p. 392.

Taylor, Mallory H., Jr., Macon, Ga. Medicinal preparations for headache, toothache, backache, &c. No. 125,517; Apr. 13; v. 273; p. 377.

Thayer, Henry, & Co. Inc., Cambridge, Mass. Soaps. No. 115,166; Apr. 13; v. 273; p. 357.

Thomas & Betts Co., The, New York, N. Y. Rigid and flexible electrical conduits and electrical conductors and merchandise. No. 107,952; Apr. 13; v. 273; p. 354.

Thompson, John R., Co., Chicago, Ill. Crab-apple jelly, plum jam, canned corn, &c. No. 125,810; Apr. 13; v. 273; p. 379.

Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. No. 128,257; Apr. 13; v. 273; p. 398.

Tipp Whip Company, The, Tippecanoe City, Ohio. Liquid and paste shampoos. No. 123,002; Apr. 13; v. 273; p. 365.

Trent River Marl & Lime Co., Newbern, N. C. Refined natural fossilized shell-fish used as fertilizers and fertilizer-fillers. No. 114,260; Apr. 13; v. 273; p. 356.

Tropics Corporation, The, New York, N. Y. Leather hides. No. 127,844; Apr. 13; v. 273; p. 395.

Turner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 125,984; Apr. 13; v. 273; p. 380.

Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 91,026; Apr. 13; v. 273; p. 353.

United Lace & Braid Manufacturing Company, Cranston, R. I. Boot and shoe heels of rubber. No. 113,134; Apr. 13; v. 273; p. 356.

United Phonograph Corporation, Omaha, Nebr. Phonographs. No. 127,580; Apr. 13; v. 273; p. 393.

United Shoe Machinery Athletic Association, Beverly, Mass. Monthly publication. No. 122,374; Apr. 13; v. 273; p. 363.

U. S. Emergency Ration Corp., Belleville, N. J. Concentrated food comprising a combination of any form of bread and chocolate. No. 115,650; Apr. 13; v. 273; p. 357.

United States Air Compressor Co., The, Cleveland, Ohio. Unitary air-compressor equipments and parts thereof. No. 126,294; Apr. 13; v. 273; p. 383.

United States Spring Bed Company, The, Springfield, Mass. Extension or sliding couches. No. 124,559; Apr. 13; v. 273; p. 371.

Valmas Drug Company, Inc., Rochester, N. Y. Eye-wash. No. 123,007; Apr. 13; v. 273; p. 365.

Van Orden Company, The, Newark, N. J. Corsets. Nos. 127,160-2; Apr. 13; v. 273; p. 390.

Von Bremen, Asche & Co., New York, N. Y. Canned fish, particularly herring and sardines. No. 127,744; Apr. 13; v. 273; p. 394.

Waldes & Co., Prague, Bohemia. Placket and glove fasteners, knitting and crochet needles, buckles, thimbles, &c. No. 121,070; Apr. 13; v. 273; p. 362.

Walworth Manufacturing Company, Boston, Mass. Pipe-fittings and valves, couplings, brushings, plugs, &c. No. 125,140; Apr. 13; v. 273; p. 374.

Walworth Manufacturing Company, Boston, Mass. Pipe-wrenches. No. 125,446; Apr. 13; v. 273; p. 376.

Ward Baking Company, New York, N. Y. Bread. No. 128,057; Apr. 13; v. 273; p. 396.

Ward Baking Company, New York, N. Y. Bread. No. 128,415; Apr. 13; v. 273; p. 399.

Ward Baking Company, New York, N. Y. Bread. No. 128,417; Apr. 13; v. 273; p. 399.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 129,111; Apr. 13; v. 273; p. 399.

Weber, Charles E., Roaring Spring, Pa. Nerve and bone liniment for rheumatism, headache, neuralgia, insect-bites, bruises, &c. No. 125,480; Apr. 13; v. 273; p. 377.

Western Feed Manufacturers, Inc., Chicago, Ill. Horse feed. No. 127,192; Apr. 13; v. 273; p. 391.

Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. Nos. 127,194-5; Apr. 13; v. 273; p. 391.

Weyerhaeuser Forest Products, St. Paul, Minn. Lumber, rough or dressed, factory products, shingles, lath, flooring, &c. No. 126,297; Apr. 13; v. 273; p. 383.

White, Bert L., Company, Chicago, Ill. Advertising-folders, publication issued at irregular intervals. No. 113,597; Apr. 13; v. 273; p. 356.

Whitmore-Tirrell Shoe Corporation, Weymouth, Mass. Leather boots and shoes. No. 127,203; Apr. 13; v. 273; p. 391.

Wiederhold, Emil, & Bro., Columbus, Ohio. Piano and automobile polish. No. 125,815; Apr. 13; v. 273; p. 379.

Wilder, John W., assignor to Delicine Products Company, Chicago, Ill. Lotions for rough, chapped, sunburned and wind-burned skin, cold-creams, ointments, and dentifrices. No. 124,965; Apr. 13; v. 273; p. 373.

Will Corporation, The, Rochester, N. Y. Methyl alcohol. No. 124,159; Apr. 13; v. 273; p. 370.

Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, flower and sweet-pea. No. 128,186; Apr. 13; v. 273; p. 397.

Will, Oscar H., & Co., Bismarck, N. D. Seeds—namely, lawn and grass. No. 128,188; Apr. 13; v. 273; p. 397.

Williams, Davis, Brooks & Hinchman Sons, Detroit, Mich. Toothbrushes. No. 125,987; Apr. 13; v. 273; p. 380.

Williams, Maurice M., Dallas, Tex. Polishing preparation for automobiles, carriages, coaches, &c. No. 125,270; Apr. 13; v. 273; p. 375.

Wisconsin Pilot Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 125,590; Apr. 13; v. 273; p. 377.

Wolff, Moritz M., Boston, Mass. Medicinal oil liniment for rheumatism, head and ear ache, sprains, &c. No. 124,826; Apr. 13; v. 273; p. 372.

Woods, S. A., Machine Co., Boston, Mass. Woodworking-machines. No. 115,111; Apr. 13; v. 273; p. 356.

Wuest, Andrew A., Cincinnati, Ohio. Hosiery for men, women, and children. No. 126,080; Apr. 13; v. 273; p. 381.

Zellerbach Paper Company, San Francisco, Calif. Printing-paper, writing and wrapping paper, strawboards, &c. No. 126,434; Apr. 13; v. 273; p. 385.

Zin Mfg. Company, Kansas City, Mo. Insecticides. No. 125,765; Apr. 13; v. 273; p. 378.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasion, Holder for substances to be consumed by. J. C. Cook. No. 1,336,819; Apr. 13; v. 273; p. 271.
Acetylene-gas generator. J. D. Luttrell. No. 1,336,573; Apr. 13; v. 273; p. 224.
Acetylene-generator. R. D. Braden and C. W. Grant. No. 1,336,813; Apr. 13; v. 273; p. 270.
Acid, Allylester of the 2-phenylquinolin 4-carboxylic. A. Gams. No. 1,336,952; Apr. 13; v. 273; p. 297.
Acid, Making nitric. E. Thomson. No. 1,337,106; Apr. 13; v. 273; p. 326.
Acid, Manufacture of a boron derivative of pyrophosphoric. B. Levin. No. 1,336,974; Apr. 13; v. 273; p. 301.
Acid utilizing sludge acid, Producing hydrochloric. H. M. Lasher. No. 1,337,141; Apr. 13; v. 273; p. 332.
Adding and typewriting machines, Paper-support for combined. C. L. Harvey. No. 1,336,836; Apr. 13; v. 273; p. 275.
Aeronautical motor. C. B. Kirkham. No. 1,336,704; Apr. 13; v. 273; p. 249.
Aeroplane. B. Carlisle. No. 1,336,678; Apr. 13; v. 273; p. 244.
Aeroplane. J. D. Denson. No. 1,336,982; Apr. 13; v. 273; p. 302.
Aeroplane. H. J. Parker. No. 1,337,151; Apr. 13; v. 273; p. 334.
Aeroplane-control mechanism. H. Kleckler. No. 1,336,632; Apr. 13; v. 273; p. 235.
Aeroplane control. F. L. Morse. No. 1,336,977; Apr. 13; v. 273; p. 301.
Aeroplanes, Self-leveling basket for. J. Juricich. No. 1,336,702; Apr. 13; v. 273; p. 249.
Agricultural implement. E. Fowler and J. V. Lewis. No. 1,337,126; Apr. 13; v. 273; p. 329.
Air-brakes, Apparatus for electrically controlling. E. I. La Count. No. 1,336,465; Apr. 13; v. 273; p. 203.
Aircraft, Landing-gear for. H. Kleckler. No. 1,336,633; Apr. 13; v. 273; p. 235.
Airplane. D. Dobbins. No. 1,336,946; Apr. 13; v. 273; p. 296.
Airplane. D. Dobbins. No. 1,336,947; Apr. 13; v. 273; p. 296.
Airplane-radiators, Shock-absorber for. P. J. R. Postel-Vinay. No. 1,337,157; Apr. 13; v. 273; p. 335.
Airship. H. Nordmark. No. 1,336,651; Apr. 13; v. 273; p. 238.
Alkali cyanid from alkali carbonate, Separating. F. J. Metzger. No. 1,337,019; Apr. 13; v. 273; p. 309.
Aluminum, Hardening. H. M. Buluckian. No. 1,336,420; Apr. 13; v. 273; p. 195.
Alunite, Utilization of native. H. F. Chappell. No. 1,336,508; Apr. 13; v. 273; p. 211.
Amalgamator. A. Harter. No. 1,336,697; Apr. 13; v. 273; p. 248.
Annealing-furnace. T. J. Costello. No. 1,336,681; Apr. 13; v. 273; p. 245.
Ash-sifter. A. Kolar. No. 1,336,637; Apr. 13; v. 273; p. 236.
Ash-sifter. H. Rozenske. No. 1,336,538; Apr. 13; v. 273; p. 217.
Assembling-machine. J. S. Wentworth. No. 1,336,875; Apr. 13; v. 273; p. 282.
Auto-tire spring. M. H. Standley. No. 1,336,868; Apr. 13; v. 273; p. 281.
Automobile. R. S. Fend. No. 1,337,007; Apr. 13; v. 273; p. 307.
Automobile. R. S. Fend. No. 1,336,008; Apr. 13; v. 273; p. 307.
Automobile-controlling device. F. W. Norton. No. 1,336,856; Apr. 13; v. 273; p. 279.
Automobile-jack. E. L. Flum and J. A. Maschino. No. 1,337,125; Apr. 13; v. 273; p. 329.
Automobile-lock. C. W. Nickerson. No. 1,336,650; Apr. 13; v. 273; p. 238.
Automobile-reflector dimmer. B. Fuligni and C. J. Muhsgnug. No. 1,336,951; Apr. 13; v. 273; p. 297.
Automobile runner attachment. C. Peterson. No. 1,337,153; Apr. 13; v. 273; p. 335.
Automobile-signal. F. Bahler. No. 1,336,713; Apr. 13; v. 273; p. 251.
Automobile-signal. A. E. McCurdy. No. 1,336,644; Apr. 13; v. 273; p. 237.
Automobile-signal. W. Schierding. No. 1,336,588; Apr. 13; v. 273; p. 226.
Automobile-signal. J. Svaigel. No. 1,336,795; Apr. 13; v. 273; p. 267.
Automobiles, Running-board and fender support for. A. W. Kirchner. No. 1,337,078; Apr. 13; v. 273; p. 321.
Automobiles, Tail-light and traffic-signaling device for. W. J. Begley. No. 1,336,772; Apr. 13; v. 262.
Autosled. B. T. Tollbom. No. 1,336,448; Apr. 13; v. 273; p. 200.
Bag-filling device. R. L. Callahan. No. 1,336,612; Apr. 13; v. 273; p. 231.
Bag-holder. B. McBride. No. 1,336,530; Apr. 13; v. 273; p. 215.
Bag holder, Grain-. W. Jahns. No. 1,337,134; Apr. 13; v. 273; p. 331.
Ball-mill, Inclosed-screen. J. R. Ball. No. 1,337,033; Apr. 13; v. 273; p. 313.
Balloon, Dirigible. R. H. Upson. No. 1,336,601; Apr. 13; v. 273; p. 229.
Balloon, Multiple propelled. G. Appinel. No. 1,337,032; Apr. 13; v. 273; p. 312.
Banjo. S. F. Cetta. No. 1,337,041; Apr. 13; v. 273; p. 314.
Barn. A. F. McGirr. No. 1,336,471; Apr. 13; v. 273; p. 204.
Barrel-agitator. C. E. Farrington. No. 1,336,830; Apr. 13; v. 273; p. 273.
Batchometer. N. M. Rosendahl. No. 1,336,586; Apr. 13; v. 273; p. 226.
Battery-cell and vent means therefor. C. C. Carpenter and R. J. Ellis. No. 1,336,506; Apr. 13; v. 273; p. 211.
Battery jar and cover. C. C. Carpenter and R. J. Ellis. No. 1,336,507; Apr. 13; v. 273; p. 211.
Battery-tester. G. H. Riebeth. No. 1,337,160; Apr. 13; v. 273; p. 336.
Beans, Apparatus for snipping string-. W. E. Urschel. No. 1,336,991; Apr. 13; v. 273; p. 304.
Bearing, Thrust-. J. W. Thropp. No. 1,337,028; Apr. 13; v. 273; p. 311.
Bedpost-fastener. M. B. Okum. No. 1,337,150; Apr. 13; v. 273; p. 334.
Bedstead. G. Goodwin. No. 1,337,012; Apr. 13; v. 273; p. 308.
Beehive. R. Karpinski. No. 1,336,523; Apr. 13; v. 273; p. 214.
Benzene hydrocarbons from coal-gas, Recovery of. G. E. Darier. No. 1,336,893; Apr. 13; v. 273; p. 286.
Berth safety-spring. R. T. Crane, Jr. No. 1,336,943; Apr. 13; v. 273; p. 295.
Bevel-cutting machine. W. P. Curry. No. 1,336,731; Apr. 13; v. 273; p. 255.
Binder. E. R. Wohler. No. 1,336,495; Apr. 13; v. 273; p. 208.
Binder, Loose-leaf. R. L. Esson. No. 1,337,124; Apr. 13; v. 273; p. 329.
Block: *See*—
Brake-block. Collapsible block.
Block-signal system. J. J. Ruddick. No. 1,336,486; Apr. 13; v. 273; p. 207.
Boat, Flying-. H. Kleckler. No. 1,336,634; Apr. 13; v. 273; p. 235.
Boat, Salvage-. J. Begg. No. 1,337,035; Apr. 13; v. 273; p. 313.
Boats, Stabilizer for. J. J. Ferko. No. 1,336,688; Apr. 13; v. 273; p. 246.
Boiler: *See*—
Water-tube boiler.
Bolt: *See*—
Oil-bolt.
Book, Check-. J. E. Allen. No. 1,336,804; Apr. 13; v. 273; p. 268.
Book-covers, Machine for making. T. Dean. No. 1,336,944; Apr. 13; v. 273; p. 296.
Book-rack. F. Schimmel. No. 1,336,981; Apr. 13; v. 273; p. 302.
Bosom-press. G. Binder. No. 1,336,415; Apr. 13; v. 273; p. 194.
Bottle. B. J. Finnegan. No. 1,336,737; Apr. 13; v. 273; p. 256.
Bottle feeding and moving mechanism. J. C. Miller. No. 1,336,788; Apr. 13; v. 273; p. 266.
Bottle holder, Nursing-. E. J. Batty. No. 1,336,809; Apr. 13; v. 273; p. 269.

Bottle support and sanitary protector therefor, Safety milk-. D. Dunn. No. 1,336,826; Apr. 13; v. 273; p. 273.
Box: *See*—
Collapsible box. Journal-box.
Confection-box. Mail-box.
Hatbox. Tote-box.
Brace: *See*—
Limb or foot brace.
Bracket: *See*—
Scaffold-bracket.
Bradding-machines, Carrier for. S. S. Picard. No. 1,337,155; Apr. 13; v. 273; p. 335.
Brake: *See*—
Wagon-brake.
Brake. J. D. C. Ivey. No. 1,336,435; Apr. 13; v. 273; p. 198.
Brake-block. J. B. Bowmer. No. 1,336,882; Apr. 13; v. 273; p. 283.
Bread-slicing machine. S. Biwoin. No. 1,336,726; Apr. 13; v. 273; p. 254.
Breathing apparatus, Device for changing regenerating-cartridges of. G. Stolle. No. 1,337,026; Apr. 13; v. 273; p. 311.
Broach. A. F. Donaldson. No. 1,336,621; Apr. 13; v. 273; p. 233.
Brush, Irrigated. R. H. Baker. No. 1,336,604; Apr. 13; v. 273; p. 230.
Bucket, Well-. C. D. Behan. No. 1,336,881; Apr. 13; v. 273; p. 283.
Buffer. S. G. Lewis and G. W. Daum. No. 1,336,527; Apr. 13; v. 273; p. 215.
Building construction. M. R. Sheen. No. 1,336,789; Apr. 13; v. 273; p. 266.
Bulkhead. B. B. Crane. No. 1,336,892; Apr. 13; v. 273; p. 286.
Bulletin, Auto-service. H. L. Fulton. No. 1,336,739; Apr. 13; v. 273; p. 256.
Burner: *See*—
Hydrocarbon-burner.
Button-attaching means. A. J. Matter. No. 1,336,787; Apr. 13; v. 273; p. 265.
Button, Cuff-. J. H. Bechtold. No. 1,336,880; Apr. 13; v. 273; p. 283.
Cabinet, Food-. C. M. Drinkwater. No. 1,336,776; Apr. 13; v. 273; p. 263.
Cable-support, Anti-abrasion. B. Gherardi. No. 1,336,558; Apr. 13; v. 273; p. 221.
Calculating-machine. A. F. Dodson. No. 1,336,686; Apr. 13; v. 273; p. 246.
Calculating-machine. H. Hopkins. No. 1,336,904; Apr. 13; v. 273; p. 288.
Calculator. M. Swenson. No. 1,336,990; Apr. 13; v. 273; p. 304.
Calipers. L. D. Spence. No. 1,337,165; Apr. 13; v. 273; p. 337.
Cam-driving device for actuating the pistons of a plurality of pumps, Common. E. Woerner. No. 1,336,803; Apr. 13; v. 273; p. 268.
Camera. W. Parkes. No. 1,336,441; Apr. 13; v. 273; p. 199.
Can-opener. E. O. Murman. No. 1,337,148; Apr. 13; v. 273; p. 334.
Can-washing machine. H. D. Lathrop and W. H. Paulson. No. 1,336,570; Apr. 13; v. 273; p. 223.
Can-washing machines, Can-reversing mechanism for. H. D. Lathrop and W. H. Paulson. No. 1,336,567; Apr. 13; v. 273; p. 223.
Can-washing machines, Carrier for. H. D. Lathrop. No. 1,336,568; Apr. 13; v. 273; p. 223.
Cane, Collapsible. F. Kutwicz. No. 1,336,638; Apr. 13; v. 273; p. 236.
Car, Convertible freight. G. W. Dallimore. No. 1,336,682; Apr. 13; v. 273; p. 245.
Car doors, Device to seal freight. N. W. Christensen. No. 1,336,888; Apr. 13; v. 273; p. 284.
Car, Railway-. R. W. Joy. No. 1,336,436; Apr. 13; v. 273; p. 198.
Car, Railway-. T. N. Russell. No. 1,336,864; Apr. 13; v. 273; p. 280.
Car, Tank. A. E. Ostrander. No. 1,336,439; Apr. 13; v. 273; p. 198.
Car-unloader. A. W. Crothamel. No. 1,337,047; Apr. 13; v. 273; p. 315.
Cars and other vehicles, Combined dovetail and buffer or cushioning device for doors of motor-. A. S. Cheston. No. 1,337,042; Apr. 13; v. 273; p. 314.
Cars, Combined propelling-motor and door-operating mechanism for. G. W. Meyers. No. 1,336,477; Apr. 13; v. 273; p. 205.
Cars, Metal roof for. F. M. Whyte. No. 1,336,993; Apr. 13; v. 273; p. 304.
Cars, Tank-anchor for tank-. W. K. Auchincloss. No. 1,336,410; Apr. 13; v. 273; p. 193.
Carbureter. C. de Lukacsevics. No. 1,337,051; Apr. 13; v. 273; p. 316.
Carcass-dehairing machine. L. A. Kramer. No. 1,336,524; Apr. 13; v. 273; p. 214.
Card-accounting systems, Means employed in. H. H. van Santen. No. 1,336,992; Apr. 13; v. 273; p. 304.
Card-holder and clamp, Combined. E. Bennett. No. 1,336,723; Apr. 13; v. 273; p. 253.
Cargo-stop. H. D. Lathrop. No. 1,336,569; Apr. 13; v. 273; p. 223.
Carriage, Baby-. S. Biwoin. No. 1,336,725; Apr. 13; v. 273; p. 253.
Case: *See*—
Display-case. Show-case.
Cash-register. F. L. Fuller. No. 1,336,693; Apr. 13; v. 273; p. 247.
Casting metal. W. H. Warren. No. 1,336,768; Apr. 13; v. 273; p. 261.
Casting metal-apparatus. W. H. Warren. No. 1,336,767; Apr. 13; v. 273; p. 263.
Catch, Pin safety-. G. W. Bainton. No. 1,337,114; Apr. 13; v. 273; p. 328.
Cement-molding apparatus. C. F. Ruby. No. 1,336,539; Apr. 13; v. 273; p. 217.
Cement-tile pallets, Inner liner for. R. B. Sands. No. 1,336,865; Apr. 13; v. 273; p. 280.
Center. J. Kermath. No. 1,336,843; Apr. 13; v. 273; p. 276.
Centrifugal machine. A. H. Gibson. No. 1,336,779; Apr. 13; v. 273; p. 263.
Ceramic article. S. C. Linbarger. No. 1,336,751; Apr. 13; v. 273; p. 258.
Ceramic composition. O. Gerber. No. 1,336,740; Apr. 13; v. 273 p. 256.
Ceramic firing, Ware-support for. B. B. Swinnerton. No. 1,336,762; Apr. 13; v. 273; p. 260.
Cereal-scouring machine. G. E. Friedrich. No. 1,337,127; Apr. 13; v. 273; p. 330.
Chain-tightener. A. C. Carlsen. No. 1,336,679; Apr. 13; v. 273; p. 244.
Chair: *See*—
Infant-chair. Theater-chair.
Revolving chair.
Chair-iron. D. R. Collier. No. 1,336,509; Apr. 13; v. 273; p. 211.
Chair-iron. D. R. Collier. No. 1,336,510; Apr. 13; v. 273; p. 211.
Chart, Ship's position-plotting. F. E. Uttmark. No. 1,337,168; Apr. 13; v. 273; p. 337.
Check, Bank-. J. L. Miller. No. 1,336,647; Apr. 13; v. 273; p. 238.
Check holder, Sales-. T. R. F. Potter. No. 1,336,922; Apr. 13; v. 273; p. 291.
Check-writing machine. B. O. Fanslow. No. 1,337,006; Apr. 13; v. 273; p. 307.
Cherry-pitter. T. F. Morse. No. 1,336,852; Apr. 13; v. 273; p. 278.
China-burnishing machine. P. M. Disinger. No. 1,336,685; Apr. 13; v. 273; p. 246.
Chisel, Cold-. G. A. Kissinger. No. 1,336,631; Apr. 13; v. 273; p. 235.
Chock, Safety-. C. P. Read. No. 1,336,442; Apr. 13; v. 273; p. 199.
Chopping attachment. G. N. Chenault. No. 1,336,727; Apr. 13; v. 273; p. 254.
Chucks, Method and apparatus for alining work on V-blocks for magnetic. F. L. Simmons. No. 1,336,928; Apr. 13; v. 273; p. 293.
Cigar-tip cutter. C. Berberich. No. 1,336,724; Apr. 13; v. 273; p. 253.
Circuit-controlling mechanism. I. W. Broegger. No. 1,336,418; Aug. 13; v. 273; p. 195.
Clamp: *See*—
Rope-clamp.
Clamp. A. H. Weston and R. H. Peters. No. 1,336,667; Apr. 13; v. 273; p. 241.
Cleaner: *See*—
Excavator-bucket cleaner. Vacuum-cleaner.
Gun-cleaner.
Clock-spring. M. G. Stageberg. No. 1,337,097; Apr. 13; v. 273; p. 324.
Closure. A. Benzinger. No. 1,336,811; Apr. 13; v. 273; p. 270.
Clothes-wringer. C. F. Bronner. No. 1,336,883; Apr. 13; v. 273; p. 284.
Clutch, Automatic. A. H. Manning. No. 1,336,472; Apr. 13; v. 273; p. 204.
Coaster. R. K. Whitney. No. 1,336,456; Apr. 13; v. 273; p. 201.
Cobalt, Recovering. M. J. Udy. No. 1,336,765; Apr. 13; v. 273; p. 261.
Coffee-mill, Vertical. K. S. Stenbo. No. 1,336,793; Apr. 13; v. 273; p. 266.
Coin-controlling register. J. W. Hughes. No. 1,336,628; Apr. 13; v. 273; p. 234.
Coin-freed stamping apparatus. F. Hilton. No. 1,336,960; Apr. 13; v. 273; p. 298.
Collapsible block. A. Kenworthy. No. 1,337,017; Apr. 13; v. 273; p. 309.
Collapsible box. A. V. Trego. No. 1,337,167; Apr. 13; v. 273; p. 337.
Concentrator and classifier, Combination. A. E. Keables. No. 1,336,963; Apr. 13; v. 273; p. 299.
Concrete pipes, Mold for manufacture of. A. Porri. No. 1,336,857; Apr. 13; v. 273; p. 279.
Concrete structures, Framework for reinforcing and shaping. F. A. Wright. No. 1,336,547; Apr. 13; v. 273; p. 219.
Concrete units, Making. A. G. Aurand. No. 1,336,712; Apr. 13; v. 273; p. 251.
Condensation product and making it, Soluble. O. Schmidt. No. 1,336,759; Apr. 13; v. 273; p. 260.
Confection-box. W. W. Wachtel. No. 1,336,874; Apr. 13; v. 273; p. 282.
Container, Collapsible. J. R. and M. B. Driver. No. 1,336,895; Apr. 13; v. 273; p. 286.

Container-holder. S. Frey. No. 1,337,010; Apr. 13; v. 273; p. 308.
Container, Storage-. J. R. and M. B. Driver. No. 1,336,896; Apr. 13; v. 273; p. 286.
Control apparatus. A. J. Hall. No. 1,336,560; Apr. 13; v. 273; p. 221.
Control apparatus. P. L. Mardis. No. 1,336,574; Apr. 13; v. 273; p. 224.
Control apparatus. L. G. Riley. No 1,336,583; Apr. 13; v. 273; p. 226.
Control apparatus. N. W. Storer. No. 1,336,596; Apr. 13; v. 273; p. 228.
Control system. R. E. Hellmund. No. 1,336,562; Apr. 13; v. 273; p. 222.
Control system. W. M. Scott. No. 1,336,488; Apr. 13; v. 273; p. 207.
Controller. T. S. Pukerud. No. 1,336,582; Apr. 13; v. 273; p. 225.
Cooking device. G. Tsekuras. No. 1,336,599; Apr. 13; v. 273; p. 229.
Cooler. D. W. Grant. No. 1,336,742; Apr. 13; v. 273; p. 256.
Copy-holder. A. S. Golanke. No. 1,336,834; Apr. 13; v. 273; p. 274.
Core-plate for drying cores. H. C. Drumm. No. 1,337,005; Apr. 13; v. 273; p. 307.
Cotter-extractor. W. E. Aylor. No. 1,336,938; Apr. 13; v. 273; p. 294.
Cotter-key. W. E. Aylor and M. Rauh. No. 1,336,498; Apr. 13; v. 273; p. 209.
Cotton-chopping machine. J. G. Sims. No. 1,336,708; Apr. 13; v. 273; p. 250.
Crank-shaft. C. A. Kuhn. No. 1,337,081; Apr. 13; v. 273; p. 322.
Crutch. F. Klousnitzer. No. 1,336,844; Apr. 13; v. 273; p. 276.
Cultivator. J. W. Burke. No. 1,336,421; Apr. 13; v. 273; p. 195.
Curtain-pole and shade-roller holder. F. J. Wrona. No. 1,336,936; Apr. 13; v. 273; p. 294.
Curve pull-off hanger. J. R. Brown. No. 1,336,504; Apr. 13; v. 273; p. 210.
Cushion: *See*—
Seat-cushion.
Cutter: *See*—
Cigar-tip cutter. Vine-cutter.
Rod-cutter.
Cutting or sawing machinery. S. P. Blanckensee. No. 1,336,501; Apr. 13; v. 273; p. 209.
Dandelion-rake. C. E. Roberts. No. 1,336,861; Apr. 13; v. 273; p. 279.
Delivery mechanism for folded products. E. P. Sheldon. No. 1,336,445; Apr. 13; v. 273; p. 199.
Diestocks, Self-oiling handle for. R. V. Newsham. No. 1,336,575; Apr. 13; v. 273; p. 224.
Digging-implement guard. G. W. Kirkpatrick. No. 1,336,630; Apr. 13; v. 273; p. 235.
Disk-sorting machine. T. Allatt. No. 1,337,031; Apr. 13; v. 273; p. 312.
Dispensing apparatus. L. W. Luellen. No. 1,336,469; Apr. 13; v. 273; p. 204.
Display-case. W. H. Gallagher. No. 1,336,899; Apr. 13; v. 273; p. 287.
Display publicity by machine, Framework for. C. R. Finch. No. 1,336,831; Apr. 13; v. 273; p. 273.
Distribution of articles, Machine for effecting orderly. T. Gensmer and G. F. Lieberman. No. 1,336,778; Apr. 13; v. 273; p. 263.
Distribution of articles, particularly buttons, Machine for effecting orderly. A. J. Matter and F. V. Conley. No. 1,336,785; Apr. 13; v. 273; p. 265.
Dock, Floating wooden dry-. J. L. Bryne. No. 1,336,941; Apr. 13; v. 273; p. 295.
Doll, Comic. O. A. Flynn. No. 1,336,898; Apr. 13; v. 273; p. 287.
Door, Automatically-closing bulkhead-. T. J. Foerster and L. J. Pfund. No. 1,337,060; Apr. 13; v. 273; p. 318.
Door-catch. A. Drummund. No. 1,336,897; Apr. 13; v. 273; p. 287.
Door-fastener. H. K. Buggeln. No. 1,336,505; Apr. 13; v. 273; p. 210.
Door-lock. J. Codos and B. May. No. 1,336,617; Apr. 13; v. 273; p. 232.
Door stop and lock. F. and O. Paulus. No. 1,336,535; Apr. 13; v. 273; p. 216.
Dough cutting and molding machine. A. Peters. No. 1,337,152; Apr. 13; v. 273; p. 334.
Dough-mixers, Reversible, double-speed, friction and gear drive for. F. X. Lauterbur. No. 1,336,783; Apr. 13; v. 273; p. 264.
Draft device. L. B. Doe. No. 1,336,735; Apr. 13; v. 273; p. 255.
Draft mechanism. J. O. Neikirk. No. 1,337,090; Apr. 13; v. 273; p. 323.
Drain-tile mold. W. F. Sloan. No. 1,336,867; Apr. 13; v. 273; p. 280.
Drinks, Producing soft. A. L. Straus. No. 1,337,027; Apr. 13; v. 273; p. 311.
Drying apparatus. F. V. Burman. No. 1,336,422; Apr. 13; v. 273; p. 195.
Dye-stick. W. V. Foley. No. 1,337,009; Apr. 13; v. 273; p. 308.
Electric-cable-connecting means. J. M. Kiefer, Jr. No. 1,336,437; Apr. 13; v. 273; p. 198.
Electric furnace. L. Almagia and E. Guerreschi. No. 1,336,807; Apr. 13; v. 273; p. 269.
Electric furnace. S. Barfoed. No. 1,336,939; Apr. 13; v. 273; p. 295.
Electric furnace. E. L. Crosby. No. 1,336,820; Apr. 13; v. 273; p. 271.
Electric furnace. J. A. Pickens. No. 1,337,156; Apr. 13; v. 273; p. 335.
Electric-generator regulator. H. E. Borger. No. 1,336,416; Apr. 13; v. 273; p. 194.
Electric machines, Protecting means for dynamo-. J. H. Hertner. No. 1,336,520; Apr. 13; v. 273; p. 213.
Electric socket and lamp protector. F. Stolzenwald. No. 1,336,761; Apr. 13; v. 273; p. 260.
Electric switch. F. P. Gates. No. 1,337,011; Apr. 13; v. 273; p. 308.
Electric switch. W. B. Templeton. No. 1,337,105; Apr. 13; v. 273; p. 326.
Electric switch. C. L. White. No. 1,336,455; Apr. 13; v. 273; p. 201.
Electric switches, Controlling mechanism for. C. D. Oversmith. No. 1,337,022; Apr. 13; v. 273; p. 310.
Electric system. J. L. Creveling. No. 1,336,619; Apr. 13; v. 273; p. 233.
Electrical apparatus. W. I. Thomson. No. 1,336,764; Apr. 13; v. 273; p. 260.
Electrical-conductor connector. H. F. Maxim. No. 1,336,850; Apr. 13; v. 273; p. 278.
Electrical connecting device. R. B. Benjamin. No. 1,336,608; Apr. 13; v. 273; p. 231.
Electrical connector. G. A. Mead. No. 1,336,475; Apr. 13; v. 273; p. 205.
Electrical connector. C. R. Wassell. No. 1,336,801; Apr. 13; v. 273; p. 268.
Electrical energy, Distribution of. C. Grover. No. 1,337,129; Apr. 13; v. 273; p. 330.
Electrical transformer. S. Z. de Ferranti. No. 1,336,894; Apr. 13; v. 273; p. 286.
Electrically-operated vibratory motor. C. J. Henschel. No. 1,336,519; Apr. 13; v. 273; p. 213.
Electricity transforming and converting apparatus. H. M. Hobart. No. 1,337,071; Apr. 13; v. 273; p. 320.
Electricity transforming and converting apparatus. C. W. Stone and H. M. Hobart. No. 1,337,100; Apr. 13; v. 273; p. 325.
Electrode-adapter. R. Baker. No. 1,336,603; Apr. 13; v. 273; p. 230.
Electromagnetic switch. L. E. Hutt. No. 1,337,072; Apr. 13; v. 273; p. 320.
Elevator: *See*—
Portable elevator.
Elevator interlocking device. T. W. Jenkins. No. 1,336,748; Apr. 13; v. 273; p. 257.
Elevator safety attachment. R. L. Stubbs. No. 1,336,664; Apr. 13; v. 273; p. 241.
Engine: *See*—
Internal-combustion engine.
Rotary engine.
Engine. T. E. Lewis. No. 1,336,846; Apr. 13; v. 273; p. 277.
Engine construction, Steam-. C. Redves. No. 1,337,024; Apr. 13; v. 273; p. 310.
Engine-frame. H. O. Baker. No. 1,336,715; Apr. 13; v. 273; p. 251.
Engine-frame. W. P. Cook and H. O. Baker. No. 1,336,729; Apr. 13; v. 273; p. 254.
Engine-indicator. A. O. Benecke. No. 1,336,810; Apr. 13; v. 273; p. 269.
Engine of compound type, Internal-combustion. S. G. Wigelius and N. W. Uhr. No. 1,336,668; Apr. 13; v. 273; p. 242.
Engine or pump, Rotary. K. G. Kutchka. No. 1,336,845; Apr. 13; v. 273; p. 277.
Engine-stand. R. E. Manley. No. 1,336,912; Apr. 13; v. 273; p. 289.
Engines, Air-cooler for. J. F. Wittmann. No. 1,336,458; Apr. 13; v. 273; p. 201.
Engines, Attachment for internal-combustion. W. H. Sibbald. No. 1,336,592; Apr. 13; v. 273; p. 227.
Engines, Automatic reversible fan for explosive. A. Holland. (Reissue.) No. 14,838; Apr. 13; v. 273; p. 340.
Engines, Axle connection for. H. O. Baker. No. 1,336,716; Apr. 13; v. 273; p. 251.
Engines, Crank or crank-shaft of internal-combustion. A. W. Wall. No. 1,336,546; Apr. 13; v. 273; p. 219.
Engines, Governing mechanism for compound. F. Hodgkinson. No. 1,337,176; Apr. 13; v. 273; p. 339.
Engines, Ignition system for internal-combustion. W. F. Strand. No. 1,336,933; Apr. 13; v. 273; p. 283.
Engines, Splash lubricating system for gas-. C. J. Gustafson. No. 1,337,013; Apr. 13; v. 273; p. 308.
Engines, Starter for internal-combustion. E. M. Bond. No. 1,337,113; Apr. 13; v. 273; p. 328.
Engines, Starting mechanism for internal-combustion. N. A. Christensen. No. 1,336,616; Apr. 13; v. 273; p. 232.
Engines, Valve mechanism for reciprocating. A. H. Anthony. No. 1,336,711; Apr. 13; v. 273; p. 250.
Envelop, Safety-. J. J. Mendenhall. No. 1,336,646; Apr. 13; v. 273; p. 237.
Evener and cutter, Combined. G. W. Duvall, N. H. Beebe, and H. E. Smith. No. 1,337,056; Apr. 13; v. 273; p. 317.
Excavator-bucket cleaner. C. E. Stahl. No. 1,336,595; Apr. 13; v. 273; p. 228.

Excavators, Cutter for. V. Schmidt. No. 1,336,657; Apr. 13; v. 273; p. 239.
Exercising apparatus, Cabinet for an. J. J. Cooper. No. 1,336,774; Apr. 13; v. 273; p. 262.
Expansion-joint. R. Ruppel. No. 1,336,924; Apr. 13; v. 273; p. 292.
Explosive, Desensitized nitroglycerin. A. A. Starring. No. 1,336,661; Apr. 13; v. 273; p. 240.
Extension-table. P. Nyholm. No. 1,337,092; Apr. 13; v. 273; p. 324.
Extractor: *See*—
Cotter-extractor.
Eye-shield. F. Bergmann. No. 1,337,036; Apr. 13; v. 273; p. 313.
Eyelet and hook setting machines, Positioning device for. L. F. Muther. No. 1,336,854; Apr. 13; v. 273; p. 278.
Eyelet-machine. L. F. Muther. No. 1,336,855; Apr. 13; v. 273; p. 278.
Fabric, Method of and means for binding the edges of reed. M. B. Lloyd. No. 1,336,571; Apr. 13; v. 273; p. 223.
Fastener. F. S. Carr. No. 1,337,115; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,116; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,117; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,118; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,119; Apr. 13; v. 273; p. 328.
Fastening device. E. U. Kimbark. No. 1,336,629; Apr. 13; v. 273; p. 234.
Fastening device. J. O. Muller. No. 1,336,752; Apr. 13; v. 273; p. 258.
Faucet. W. E. La Rue. No. 1,336,970; Apr. 13; v. 273; p. 300.
Feeding mechanism. P. Bammer. No. 1,336,771; Apr. 13; v. 273; p. 262.
Feeding mechanism. J. F. Gail. No. 1,336,622; Apr. 13; v. 273; p. 233.
Fencepost. L. Cornelius. No. 1,336,680; Apr. 13; v. 273; p. 245.
Files, binders, &c., Puncturing device for. E. K. Bottle. No. 1,336,998; Apr. 13; v. 273; p. 305.
Film-magazine. J. E. Leonard. No. 1,336,640; Apr. 13; v. 273; p. 236.
Film-moving mechanism. J. E. Leonard. No. 1,336,639; Apr. 13; v. 273; p. 236.
Filter. A. C. Gorton and G. R. Carr. No. 1,337,066; Apr. 13; v. 273; p. 319.
Filter. L. Wachenberg. No. 1,337,170; Apr. 13; v. 273; p. 338.
Filter, Air-. H. P. Milker. No. 1,337,020; Apr. 13; v. 273; p. 309.
Filter, Faucet-. J. M. Forest, Jr. No. 1,337,061; Apr. 13; v. 273; p. 318.
Filtering compound. L. W. Shull. No. 1,336,591; Apr. 13; v. 273; p. 227.
Filtering-machine. H. W. Tuttle. No. 1,336,600; Apr. 13; v. 273; p. 229.
Filtration, Method of and apparatus for. O. J. Salisbury. No. 1,336,444; Apr. 13; v. 273; p. 199.
Fire-alarm-signaling device. W. J. Roy and J. B. Danel. No. 1,337,161; Apr. 13; v. 273; p. 336.
Fire-basket. B. M. Ward and H. G. Smith. No. 1,336,766; Apr. 13; v. 273; p. 261.
Fire-extinguisher. G. B. Haines. No. 1,337,130; Apr. 13; v. 273; p. 330.
Fire-hose, Implement for kinking. W. F. Corbin. No. 1,336,891; Apr. 13; v. 273; p. 285.
Fire, Imitation. H. H. Berry. No. 1,336,500; Apr. 13; v. 273; p. 209.
Fishhook. J. O. Beevar. No. 1,336,987; Apr. 13; v. 273; p. 303.
Fluid-pressure systems, Antifreeze device for. A. B. Wood. No. 1,336,984; Apr. 13; v. 273; p. 303.
Fluid-pressure systems, Method and apparatus for preventing and removing obstructions in. W. W. Hunzicker. No. 1,336,905; Apr. 13; v. 273; p. 288.
Flying-machine. C. F. Wilcox. No. 1,336,669; Apr. 13; v. 273; p. 242.
Frame: *See*—
Engine-frame. Gun-carriage frame.
Fruit-juice, Mechanism for. H. Baulig. No. 1,336,719; Apr. 13; v. 273; p. 252.
Fruit-juice, Treating. H. Baulig. No. 1,336,720; Apr. 13; v. 273; p. 252.
Fruit-picker. S. B. Morison. No. 1,336,648; Apr. 13; v. 273; p. 238.
Furnace: *See*—
Annealing-furnace. Heat-treating furnace.
Electric furnace.
Furnace. W. M. Butler. No. 1,336,675; Apr. 13; v. 273; p. 243.
Furnace. A. C. Rhodes. No. 1,336,980; Apr. 13; v. 273; p. 302.
Furnace-charging apparatus. F. E. Troutman. No. 1,336,494; Apr. 13; v. 273; p. 208.
Furnace-doors, Device for operating. C. E. Meyers. No. 1,336,476; Apr. 13; v. 273; p. 205.
Furnaces, Deflecting-wall for. G. Baehr and E. L. Messler. No. 1,336,499; Apr. 13; v. 273; p. 209.
Furniture constructed from lock-seam tubing, Metal. P. H. Friel. No. 1,337,128; Apr. 13; v. 273; p. 330.
Fuse, Safety, centrifugal percussion base. H. Meredith-Jones. No. 1,336,701; Apr. 13; v. 273; p. 249.
Gage: *See*—
Pressure-gage. Thread-gage.
Gage. D. E. Fredericksen. No. 1,336,426; Apr. 13; v. 273; p. 196.
Garage-protector, Electric. G. J. Gumm. No. 1,336,625; Apr. 13; v. 273; p. 234.
Garment-fastener. J. Forman. No. 1,336,692; Apr. 13; v. 273; p. 247.
Garment-hanger. H. M. Gould. No. 1,336,429; Apr. 13; v. 273; p. 197.
Garment-hanger. A. A. McCaffrey. No. 1,336,849; Apr. 13; v. 273; p. 277.
Garment-supporter. G. Hake. No. 1,337,131; Apr. 13; v. 273; p. 331.
Gas-burners and electric lights, Shade-support for. F. J. Gould and E. S. Stamp. No. 1,336,835; Apr. 13; v. 273; p. 274.
Gear, Draft-. J. F. Courson. No. 1,337,002; Apr. 13; v. 273; p. 306.
Gear, Draft-. J. F. Courson. No. 1,337,003; Apr. 13; v. 273; p. 306.
Gear-shifter, Electric. A. J. Taylor, Jr. No. 1,336,796; Apr. 13; v. 273; p. 267.
Gears, Making. M. Tibbetts. No. 1,336,493; Apr. 13; v. 273; p. 208.
Gears, rolls, &c., from spinnable textile fibers, Machine for making blanks for. E. J. Guay. No. 1,337,067; Apr. 13; v. 273; p. 319.
Gearless differential. A. F. Ford. No. 1,336,950; Apr. 13; v. 273; p. 297.
Generator: *See*—
Acetylene-gas generator.
Glue, Autoclave-tray for cooking. L. Mauerhofer. No. 1,337,146; Apr. 13; v. 273; p. 333.
Golf-club. A. Backus. No. 1,336,671; Apr. 13; v. 273; p. 243.
Grade-indicator. J. Gage. No. 1,336,694; Apr. 13; v. 273; p. 247.
Grain-separator. T. O. Helgerson. No. 1,336,958; Apr. 13; v. 273; p. 298.
Grain-storehouse construction. L. H. Dickelman. No. 1,336,945; Apr. 13; v. 273; p. 296.
Grid, Adjustable broiling-. G. B. Child. No. 1,337,043; Apr. 13; v. 273; p. 314.
Grinder, Hacksaw-. E. E. Henry. No. 1,336,959; Apr. 13; v. 273; p. 298.
Grinding and smoothing mechanism, Apparatus for applying abrasives to. H. K. Hitchcock. No. 1,336,521; Apr. 13; v. 273; p. 213.
Grinding cutters, reamers, and like tools, Machine for. R. M. Nicolaysen. No. 1,336,533; Apr. 13; v. 273; p. 216.
Grinding-machine. G. C. Kimmel. No. 1,337,139; Apr. 13; v. 273; p. 332.
Grinding-machine. G. C. Kimmel. No. 1,337,140; Apr. 13; v. 273; p. 332.
Gun-carriage frame. E. Schneider. No. 1,336,926; Apr. 13; v. 273; p. 292.
Gun-cleaner. F. P. Sullivan. No. 1,337,104; Apr. 13; v. 273; p. 326.
Hacksaw, Portable rail-. W. C. Reinhardt and O. H. Banker. No. 1,336,443; Apr. 13; v. 273; p. 199.
Hair-clipping device. G. Stocking. No. 1,336,062; Apr. 13; v. 273; p. 240.
Hairpin. G. H. Bruder. No. 1,337,039; Apr. 13; v. 273; p. 314.
Handle-securing means. G. G. Mallett. No. 1,336,707; Apr. 13; v. 273; p. 250.
Hanger: *See*—
Curve pull-off hanger.
Garment-hanger.
Harrow. W. O. Long. No. 1,336,642; Apr. 13; v. 273; p. 237.
Harrow, Disk. W. C. Dwyer. No. 1,336,687 Apr. 13; v. 273; p. 246.
Harrow, Tandem disk. S. W. Cady. No. 1,336,676; Apr. 13; v. 273; p. 244.
Harvester-reel arm. G. H. Prigan. No. 1,336,536; Apr. 13; v. 273; p. 217.
Harvesting machine, Corn-. A. Olson and S. Hanson. No. 1,336,578; Apr. 13; v. 273; p. 225.
Hat and garment holder. R. L. Ash. No. 1,336,408; Apr. 13; v. 273; p. 193.
Hatbox. A. M. Matz. No. 1,337,087; Apr. 13; v. 273; p. 323.
Headlight. F. P. Ahman. No. 1,336,407; Apr. 13; v. 273; p. 193.
Headlight. O. Winston. No. 1,336,602; Apr. 13; v. 273; p. 229.
Headlight, Automobile. J. H. Laird. No. 1,336,967; Apr. 13; v. 273; p. 300.
Heat-treating furnace. R. E. Brock and S. Boyce. No. 1,336,814; Apr. 13; v. 273; p. 270.
Heater: *See*—
Internal tube-heater. Water-heater.
Heater. D. J. Nysewander. No. 1,336,753; Apr. 13; v. 273; p. 258.
Heating apparatus. L. G. Copeman. No. 1,336,552; Apr. 13; v. 273; p. 220.
Heating device. W. A. Brewster. No. 1,337,038; Apr. 13; v. 273; p. 314.
Hinge. T. W. Hickey. No 1,337,780; Apr. 13; v. 273; p. 264.

Hitch, Tractor-. V. Matthews. No. 1,336,474; Apr. 13; v. 273; p. 205.
Hog-heater-shaft attachment. F. G. Carpenter. No. 1,336,887; Apr. 13; v. 273; p. 284.
Hoist-equalizer. A. S. Anderson. No. 1,337,111; Apr. 13; v. 273; p. 327.
Holder and strainer, Combination. C. Stern. No. 1,336,491; Apr. 13; v. 273; p. 208.
Hook: *See*—
Fishhook. Registering-hook.
Hook, Butt-. W. G. Vasey. No. 1,336,666; Apr. 13; v. 273; p. 241.
Horn. W. Sparks. No. 1,336,594; Apr. 13; v. 273; p. 228.
Horn, Diaphragm-. H. S. A. Rydberg. No. 1,337,162; Apr. 13; v. 273; p. 336.
Hot-air heating system. D. Handelan. No. 1,336,901; Apr. 13; v. 273; p. 287.
Humidifier. H. F. Reid. No. 1,336,860; Apr. 13; v. 273; p. 279.
Hydroaero-machine. C. A. Marsh. No. 1,336,473; Apr. 13; v. 273; p. 204.
Hydrocarbon-burner. W. W. Todenwarth. No. 1,336,798; Apr. 13; v. 273; p. 267.
Hydrocarbon-burners to supply-pipes, Means for connecting. L. S. Chadwick. No. 1,336,423; Apr. 13; v. 273; p. 196.
Hydrocarbon oils and water, Apparatus for decomposing. H. C. Wade. No. 1,336,450; Apr. 13; v. 273; p. 200.
Hydrocarbon-vapor producer, Liquid. J. J. Welthaus. No. 1,337,108; Apr. 13; v. 273; p. 327.
Hydrocarbons, Converting liquid. W. M. McComb. No. 1,337,144; Apr. 13; v. 273; p. 333.
Ice-cream cans, Method and apparatus for retinning. W. V. Callender. No. 1,336,886; Apr. 13; v. 273; p. 284.
Ice-cutting machine. R. H. Hurford. No. 1,336,563; Apr. 13; v. 273; p. 222.
Ignition device. J. S. Coyle. No. 1,337,046; Apr. 13; v. 273; p. 315.
Illuminating apparatus. E. A. Hawthorne. No. 1,336,837; Apr. 13; v. 273; p. 275.
Indicator: *See*—
Engine-indicator. Mail-indicator.
Grade-indicator. Sea-current-direction indicator.
License-indicator.
Infant-chair. J. Straith. No. 1,337,103; Apr. 13; v. 273; p. 326.
Ingot-mold and molding. R. C. Woodward. No. 1,336,459; Apr. 13; v. 273; p. 202.
Interest-computing machine. W. F. Galloway. No. 1,336,900; Apr. 13; v. 273; p. 287.
Internal-combustion engine. E. T. Kershaw. No. 1,337,077; Apr. 13; v. 273; p. 321.
Internal tube-heater, Electric. H. Gutzwiller. No. 1,336,559; Apr. 13; v. 273; p. 221.
Iron: *See*—
Chair-iron. Waffle-iron.
Ironing-board fastener. W. C. Jackson. No. 1,337,073; Apr. 13; v. 273; p. 320.
Ironing-machine. L. H. Freeman. No. 1,336,427; Apr. 13; v. 273; p. 196.
Jack: *See*—
Automobile-jack. Stationary jack.
Lifting-jack.
Jack-centering device. J. A. Garcia. No. 1,337,065; Apr. 13; v. 273; p. 319.
Jar: *See*—
Sampling-jar.
Jar-cover remover. F. L. Reed. No. 1,337,158; Apr. 13; v. 273; p. 335.
Joint: *See*—
Expansion-joint. Roof-ventilator joint.
Limb-joint. Universal joint.
Railway-joint.
Journal-box. J. Gothner. No. 1,336,428; Apr. 13; v. 273; p. 196.
Kettle. A. T. Timosci. No. 1,336,869; Apr. 13; v. 273; p. 281.
Key: *See*—
Cotter-key.
Knitting machine, Circular glove-. G. Stibbe. No. 1,337,099; Apr. 13; v. 273; p. 325.
Lamp holder, Incandescent-electric. P. M. R. Salles. No. 1,336,587; Apr. 13; v. 273; p. 226.
Lamp, Sanctuary-. E. J. Knapp. No. 1,336,635; Apr. 13; v. 273; p. 235.
Lamp socket, Electric-. R. B. Benjamin. No. 1,336,607; Apr. 13; v. 273; p. 230.
Lamp socket, Incandescent-. W. W. O. Fenety. No. 1,336,736; Apr. 13; v. 273; p. 255.
Latch-lock. J. Wolf. No. 1,336,496; Apr. 13; v. 273; p. 208.
Lath-weaving machine. H. E. Law and E. Pooler. No. 1,336,908; Apr. 13; v. 273; p. 289.
Lathes and grinders, Friction-driver for. G. B. Amundson. No. 1,336,548; Apr. 13; v. 273; p. 219.
Leads, Multiconducting. W. E. Krone. No. 1,337,080; Apr. 13; v. 273; p. 322.
Leather, Machine for joining pieces of. L. J. Henriksen. No. 1,337,069; Apr. 13; v. 273; p. 320.
Leather-skiving machine. G. O. Terry. No. 1,336,597; Apr. 13; v. 273; p. 228.
Leather substitute. J. D. Prince. No. 1,336,858; Apr. 13; v. 273; p. 279.
Leg extension. F. Nelson. No. 1,336,480; Apr. 13; v. 273; p. 206.
Lens-holder. S. G. Marshall. No. 1,337,086; Apr. 13; v. 273; p. 323.
Letter-files, Arrangement for. S. Ringer. No. 1,336,584; Apr. 13; v. 273; p. 226.
License-indicator. J. M. McCarthy. No. 1,336,706; Apr. 13; v. 273; p. 250.
Lifting instrument. C. Yackel. No. 1,336,461; Apr. 13; v. 273; p. 202.
Lifting-jack. L. E. Johnson. No. 1,336,906; Apr. 13; v. 273; p. 288.
Light: *See*—
Headlight.
Limb and foot brace. A. J. Gromes. No. 1,336,695; Apr. 13; v. 273; p. 248.
Limb joint, Artificial. G. R. Bott. No. 1,336,812; Apr. 13; v. 273; p. 270.
Lime and sulfur product and making same, Dry. O. F. Hedenburg. No. 1,336,957; Apr. 13; v. 273; p. 298.
Liquids, Apparatus for gasifying. E. H. Cuyler and M. B. Patterson. No. 1,336,822; Apr. 13; v. 273; p. 272.
Liquids, Apparatus for treating. W. O. Rew. No. 1,336,655; Apr. 13; v. 273; p. 239.
Liquids from solids, Process and apparatus for separating. H. C. Behr. No. 1,336,722; Apr. 13; v. 273; p. 253.
Listing-machine. O. D. Johantgen. No. 1,336,840; Apr. 13; v. 273; p. 275.
Loading device. C. A. Brawn. No. 1,336,674; Apr. 13; v. 273; p. 243.
Loading-machine. H. F. Lessmann. No. 1,337,082; Apr. 13; v. 273; p. 322.
Lock: *See*—
Automobile-lock. Nut-lock.
Door-lock. Safety-lock.
Latch-lock.
Locomotive construction. G. M. Eaton. No. 1,336,555; Apr. 13; v. 273; p. 220.
Locomotives, Mechanism for operating the reels of mine-. F. B. Deans and B. K. Kirk. No. 1,337,048; Apr. 13; v. 273; p. 315.
Logging system. O. A. Wirkkala. No. 1,336,877; Apr. 13; v. 273; p. 282.
Loom. P. G. Gielen. No. 1,336,741; Apr. 13; v. 273; p. 256.
Loom. R. G. Turner. No. 1,336,545; Apr. 13; v. 273; p. 219.
Loom picker-stick check. W. W. Hestley. No. 1,337,070; Apr. 13; v. 273; p. 320.
Loom-shuttles. Thread-lock for hand-threading. J. V. Allen. No. 1,336,805; Apr. 13; v. 273; p. 269.
Looms, Safety stop-motion for Jacquard. L. S. Cannon. No. 1,336,677; Apr. 13; v. 273; p. 244.
Loop, Drop-stake. W. J. Knox. No. 1,336,636; Apr. 13; v. 273; p. 236.
Lubricating device. R. A. Bates. No. 1,336,413; Apr. 13; v. 273; p. 194.
Lubricator. L. J. Mruk. No. 1,336,853; Apr. 13; v. 273; p. 278.
Lug strap connection. L. Durand. No. 1,337,055; Apr. 13; v. 273; p. 317.
Magnesium chlorid, Making. H. H. Dow and E. O. Barstow. No. 1,336,425; Apr. 13; v. 273; p. 196.
Mail-bag catcher and deliverer. S. Misco. No. 1,336,851; Apr. 13; v. 273; p. 278.
Mail-box installation, Rural. C. Murray. No. 1,337,089; Apr. 13; v. 273; p. 323.
Mail-box, Rural. P. V. Brazill. No. 1,336,417; Apr. 13; v. 273; p. 195.
Mail-indicator, Electric. F. J. Otto. No. 1,336,652; Apr. 13; v. 273; p. 239.
Match-lighter. M. E. Hill. No. 1,336,698; Apr. 13; v. 273; p. 248.
Match-making machine. W. Wheal. No. 1,337,109; Apr. 13; v. 273; p. 327.
Measuring device, Time-. C. Haas. No. 1,337,014; Apr. 13; v. 273; p. 309.
Measuring instrument, Electrical. W. M. Bradshaw and W. G. Wylius. No. 1,336,611; Apr. 13; v. 273; p. 231.
Measuring-instrument switch, Electrical. I. W. Broegger. No. 1,336,419; Apr. 13; v. 273; p. 195.
Metal bending and forming machine. F. L. H. Sims. No. 1,336,660; Apr. 13; v. 273; p. 240.
Metal, Introducing materials into molten. A. Paez. No. 1,337,093; Apr. 13; v. 273; p. 324.
Meter: *See*—
Ratio-meter.
Meters, Protective casing for electric. J. J. Schlickuna. No. 1,337,163; Apr. 13; v. 273; p. 336.
Mill: *See*—
Ball-mill. Coffee-mill.
Milk-claw support. S. B. Sifleet. No. 1,336,593; Apr. 13; v. 273; p. 227.
Mines, torpedoes, &c., Firing device for submarine. N. W. Ihr and J. H. Sandberg. No. 1,336,873; Apr. 13; v. 273; p. 282.
Mining-machines, Cutter-bar and bit-chain for. E. T. Silvius. No. 1,336,927; Apr. 13; v. 273; p. 292.
Mixer: *See*—
Water-mixer.
Mixing and kneading machine. F. Aeschbach. No. 1,336,878; Apr. 13; v. 273; p. 283.
Mixing-machine. G. Royan. No. 1,336,862; Apr. 13; v. 273; p. 280.

Mold: *See*—
Drain-tile mold. Plastic mold.
Mother-starter ripener. N. Christensen. No. 1,336,728; Apr. 13; v. 273; p. 254.
Motion-converting device. T. E. Lewis. No. 1,336,847; Apr. 13; v. 273; p. 277.
Motor: *See*—
Aeronautical motor.
Electrically-operated vibratory motor.
Motor-control system. E. R. Carlchoff. No. 1,337,040; Apr. 13; v. 273; p. 314.
Motor-control system. R. E. Hellmund. No. 1,336,561; Apr. 13; v. 273; p. 221.
Motors, Machining hydrocarbon-. J. G. Vincent. No. 1,336,800; Apr. 13; v. 273; p. 268.
Motors, Radiating system for internal-combustion. C. Carson. No. 1,336,613; Apr. 13; v. 273; p. 232.
Motors, Speed-control system for induction-. B. G. Lamme and W. Sykes. No. 1,336,566; Apr. 13; v. 273; p. 222.
Motorcycle saddle attachment. R. Scholz. No. 1,337,025; Apr. 13; v. 273; p. 310.
Mousetrap. D. Cook. No. 1,337,044; Apr. 13; v. 273; p. 315.
Muff. Automobile-. A. R. Thomas. No. 1,336,763; Apr. 13; v. 273; p. 260.
Napkin-holder. A. Henderson. No. 1,336,744. Apr. 13; v. 273; p. 257.
Necktie-fastener. R. Cooperman. No. 1,336,618; Apr. 13; v. 273; p. 233.
Nest, Hen's. C. Willeford. No. 1,336,802; Apr. 13; v. 273; p. 268.
Nut-lock. F. P. Deever. No. 1,336,733; Apr. 13; v. 273; p. 255.
Nut-lock. R. T. Skipworth. No. 1,337,164; Apr. 13; v. 273; p. 337.
Nut, Safety-. J. C. Haldeman. No. 1,336,955; Apr. 13; v. 273; p. 297.
Oil-bolt. A. D. Ray. No. 1,336,654; Apr. 13; v. 273; p. 230.
Oil under steam-pressure, Method of and apparatus for distributing lubricating-. J. G. Talmage. No. 1,337,179; Apr. 13; v. 273; p. 340.
Ordnance, Breech mechanism of. A. T. Dawson and G. T. Buckham. No. 1,337,004; Apr. 13; v. 273; p. 306.
Orthopedic pad. A. B. Plummer. No. 1,336,979; Apr. 13; v. 273; p. 302.
Osteopathic table. J. V. McManis. No. 1,337,145; Apr. 13; v. 273; p. 333.
Oven, Baker's. W. G. Hopkins and F. J. Sullivan. No. 1,336,782; Apr. 13; v. 273; p. 264.
Overhead switch. C. H. Desautels. No. 1,337,121; Apr. 13; v. 273; p. 329.
Overshot. G. C. Dakins and H. A. Harker. No. 1,336,684; Apr. 13; v. 273; p. 245.
Ozonator. M. W. Franklin. No. 1,337,062; Apr. 13; v. 273; p. 318.
Package-dispensing apparatus, Coin-controlled. W. P. Dun Lany. No. 1,336,514; Apr. 13; v. 273; p. 212.
Pad: *See*—
Orthopedic pad.
Paper-board with paraffin, Method of and apparatus for coating. J. W. Low. No. 1,336,528; Apr. 13; v. 273; p. 215.
Paper receptacle. C. W. Neski. No. 1,337,091; Apr. 13; v. 273; p. 324.
Pen, Fountain-. C. A. Luck. No. 1,336,572; Apr. 13; v. 273; p. 223.
Penholder-support. R. Kelsey. No. 1,336,964; Apr. 13; v. 273; p. 299.
Phonograph. A. E. Teal. No. 1,336,492; Apr. 13; v. 273; p. 208.
Photograph-album, Leafless. P. H. Kraetsch. No. 1,336,438; Apr. 13; v. 273; p. 198.
Picker: *See*—
Fruit-picker.
Picture apparatus, Moving-. D. Boixeda. No. 1,336,996; Apr. 13; v. 273; p. 305.
Picture machine, Motion-. N. C. Darby. No. 1,336,775; Apr. 13; v. 273; p. 262.
Pin: *See*—
Hairpin.
Pipe-wrench. W. Zadorozny. No. 1,336,710; Apr. 13; v. 273; p. 250.
Piston. J. Flammang. No. 1,336,690; Apr. 13; v. 273; p. 247.
Piston. J. Flammang. No. 1,336,691; Apr. 13; v. 273; p. 247.
Piston-ring. O. W. Anderson. No. 1,336,670; Apr. 13; v. 273; p. 242.
Pistons, Making. J. Flammang. No. 1,336,689; Apr. 13; v. 273; p. 246.
Plastic material in containers, Means for indicating level of. P. R. Weitzel. No. 1,337,029; Apr. 13; v. 273; p. 312.
Plastic material in containers, Means for indicating level of. P. R. Weitzel. No. 1,337,030; Apr. 13; v. 273; p. 312.
Plastic mold. E. R. Jester. No. 1,337,074; Apr. 13; v. 273; p. 320.
Platform, Movable. A. H. Levene. No. 1,336,973; Apr. 13; v. 273; p. 301.
Pliers. E. A. Ironside. No. 1,336,464; Apr. 13; v. 273; p. 203.
Plow, Sidewalk-. W. G. Jones. No. 1,337,076; Apr. 13; v. 273; p. 321.
Plow-wheel adjuster. C. L. Baker. No. 1,336,550; Apr. 13; v. 273; p. 219.
Plowing and seeding apparatus. D. L. Healy. No. 1,336,902; Apr. 13; v. 273; p. 288.
Plug and socket, Current-regulating. A. Papini. No. 1,336,919; Apr. 13; v. 273; p. 291.
Pocket, Overalls-. D. S. Carter. No. 1,336,614; Apr. 13; v. 273; p. 232.
Portable elevator. G. A. Emerson. No. 1,336,949; Apr. 13; v. 273; p. 296.
Post: *See*—
Fencepost.
Potato-peeler. W. Lefteruk. No. 1,336,526; Apr. 13; v. 273; p. 214.
Powder and making same, Propellent. C. I. B. Henning. No. 1,336,463; Apr. 13; v. 273; p. 203.
Power transmission. G. L. Jacques. No. 1,336,747; Apr. 13; v. 273; p. 257.
Power-transmitting device, Variable-speed. A. H. Jessen. No. 1,336,749; Apr. 13; v. 273; p. 258.
Press: *See*—
Bosom-press. Printing-press.
Presses, Air-blast pressure attachment for. W. Cottrell. No. 1,337,000; Apr. 13; v. 273; p. 306.
Pressure gage, Differential-. W. J. Crowell, Jr. No. 1,336,511; Apr. 13; v. 273; p. 211.
Printing device. L. A. Stanley. No. 1,336,989; Apr. 13; v. 273; p. 304.
Printing mechanism. G. M. Breckenridge. No. 1,336,988; Apr. 13; v. 273; p. 303.
Printing-press. W. M. Kelly. No. 1,336,841; Apr. 13; v. 272; p. 276.
Printing-presses, Device for preventing offset in. A. B. Beck. No. 1,336,995; Apr. 13; v. 273; p. 305.
Printing-presses, Plate-clamping device for. H. F. Bechman. No. 1,336,721; Apr. 13; v. 273; p. 253.
Projector. E. W. Nelson. No. 1,336,479; Apr. 13; v. 273; p. 206.
Propeller, Variable-pitch. R. M. Howard. No. 1,337,133; Apr. 13; v. 273; p. 331.
Propellers, Arrangement for driving ships'. C. L. H. Wittmaack. No. 1,336,770; Apr. 13; v. 273; p. 261.
Propellers, Machine for making aeroplane-. J. L. Simmons. No. 1,336,659; Apr. 13; v. 273; p. 240.
Pulley and like element. F. H. Johnston and J. C. Christensen. No. 1,337,135; Apr. 13; v. 273; p. 331.
Pulley and like element. F. H. Johnston and J. C. Christensen. No. 1,337,136; Apr. 13; v. 273; p. 332.
Pump. D. A. Carden. No. 1,337,180; Apr. 13; v. 273; p. 340.
Pump. C. R. Edwards No. 1,337,057; Apr. 13; v. 273; p. 317.
Pump attachment for automobiles. R. A. Peatman. No. 1,336,920; Apr. 13; v. 273; p. 291.
Pumps, Bearing-protector for deep-well. R. Schorr. No. 1,336,540; Apr. 13; v. 273; p. 218.
Pumping system, Fuel-. H. O. Baker. No. 1,336,717; Apr. 13; v. 273; p. 252.
Punch. L. A. Lundmark. No. 1,336,529; Apr. 13; v. 273; p. 215.
Puzzle. O. J. Shepherd. No. 1,336,541; Apr. 13; v. 273; p. 218.
Quick-setting mechanism. G. S. Hull. No. 1,336,839; Apr. 13; v. 273; p. 275.
Rack: *See*—
Book-rack.
Radiator. S. T. Canada. No. 1,336,816; Apr. 13; v. 273; p. 271.
Radiator. T. N. Coffelder. No. 1,336,999; Apr. 13; v. 273; p. 305.
Radiator-shutter. C. A. Pipenhagen. No. 1,336,978; Apr. 13; v. 273; p. 302.
Radiators, Air-valve for steam-. W. J. Cook. No. 1,337,045; Apr. 13; v. 273; p. 315.
Radiators, Device for supplying water to automobile-. W. Welshausen. No. 1,336,769; Apr. 13; v. 273; p. 261.
Radiotelegraphy. L. F. Fuller. No. 1,337,833; Apr. 13; v. 273; p. 274.
Raft, Life-. J. F. Twigg. No. 1,336,872; Apr. 13; v. 273; p. 281.
Rail-bond. W. P. Bovard. No. 1,336,502; Apr. 13; v. 273; p. 210.
Rail-bond. J. R. Brown. No. 1,336,940; Apr. 13; v. 273; p. 295.
Rail-bond. W. C. Starkey. No. 1,336,932; Apr. 13; v. 273; p. 293.
Rail-bonds, Applying. W. C. Starkey. No. 1,336,931; Apr. 13; v. 273; p. 293.
Rail-joint mechanism. M. Noir. No. 1,336,483; Apr. 13; v. 273; p. 206.
Rail-torpedo safety and positive lock. H. B. Spencer. No. 1,336,792; Apr. 13; v. 273; p. 266.
Railway-crossing signal. A. Mennen. No. 1,336,913; Apr. 13; v. 273; p. 289.
Railway-joint. M. S. Murar and L. F. Hamrock. No. 1,336,915; Apr. 13; v. 273; p. 290.
Railway safety device. A. H. Simms. No. 1,336,986; Apr. 13; v. 273; p. 303.
Railway, Vacuum-. R. B. Davy. No. 1,336,732; Apr. 13; v. 273; p. 255.
Railways, Catenary suspension system for electric. J. R. Brown and G. H. Bolus. No. 1,336,503; Apr. 13; v. 273; p. 210.

Rake: *See*—
Dandelion-rake.
Ranges, Convertible gas-flue for combination gas and coal. E. C. Beers. No. 1,337,112; Apr. 113; v. 273; p. 327.
Ratio-meter. W. J. Crowell, Jr. No. 1,336,512; Apr. 13; v. 273; p. 212.
Razor, Safety-. B. La Rock. No. 1,336,969; Apr. 13; v. 273; p. 300.
Razor, Safety-. A. C. Roebuck. No. 1,336,923; Apr. 13; v. 273; p. 292.
Razor, Safety-. J. K. Toles. No. 1,337,166; Apr. 13; v. 273; p. 337.
Rectifier and means for improving the operation of the same, Mechanical. O. S. Jennings. No. 1,336,564; Apr. 13; v. 273; p. 222.
Refrigerating, Process of and appuratus for. F. W. Wolf. No. 1,337,175; Apr. 13; v. 273; p. 339.
Register: *See*—
Cash-register. Coin-controlling register.
Registering-hook. H. Sauter. No. 1,336,487; Apr. 13; v. 273; p. 207.
Regulator: *See*—
Electric-generator regulator.
Reservoir, Oil-. H. M. Boe. No. 1,336,983; Apr. 13; v. 273; p. 302.
Revolving chair. O. Fisher. No. 1,337,059; Apr. 13; v. 273; p. 318.
Rheostat. A. Papini. No. 1,336,918; Apr. 13; v. 273; p. 290.
Rims, Fastening means for demountable. B. Tamburello. No. 1,336,934; Apr. 13; v. 273; p. 294.
Ring: *See*—
Piston-ring.
Road-maker, excavator, and grader. V. Schmidt. No. 1,336,658; Apr. 13; v. 273; p. 240.
Road recorder and indicator. O. E. Joseph. No. 1,336,907; Apr. 13; v. 273; p. 289.
Roasting and boiling device. J. H. Doak. No. 1,337,122; Apr. 13; v. 273; p. 329.
Rock-drill seating and controlling means. H. I. Stage. No. 1,336,930; Apr. 13; v. 273; p. 293.
Rod: *See*—
Steering reach-rod.
Rod-cutter. J. E. Schmidt and C. E. McArthur. No. 1,336,589; Apr. 13; v. 273; p. 227.
Roll-traverse. J. A. Koster. No. 1,336,703; Apr. 13; v. 273; p. 249.
Roof-ventilator joint. C. C. Shipp. No. 1,336,590; Apr. 13; v. 273; p. 227.
Rope-clamp. S. Nilson. No. 1,336,482; Apr. 13; v. 273; p. 206.
Rotary engine. A. J. Bolfing. No. 1,336,997; Apr. 13; v. 273; p. 305.
Rubber-dam-clamp appliance. J. W. Ivory. No. 1,336,746; Apr. 13; v. 273; p. 257.
Safe-door trap. A. K. Winter. (Reissue.) No. 14,840; Apr. 13; v. 273; p. 341.
Safety-lock. J. B. Malys. No. 1,337,085; Apr. 13; v. 273; p. 322.
Salt blocks, Press for. H. D. Oxley. No. 1,336,579; Apr. 13; v. 273; p. 225.
Salts of the N-methyl-hexamethenetetramin. R. Tschunke. No. 1,336,709; Apr. 13; v. 273; p. 250.
Sample-taking device. W. E. Rembert. No. 1,336,537; Apr. 13; v. 273; p. 217.
Sampling-jar. C. E. Bauermeister. No. 1,337,034; Apr. 13; v. 273; p. 313.
Sash attachment, Window-. G. H. Gustafson. No. 1,336,430; Apr. 13; v. 273; p. 197.
Sashes, Means for automatically securing window-. C. D. Groves, T. Heath, E. H. Jarvis, and H. W. Bradbury. No. 1,336,696; Apr. 13; v. 273; p. 248.
Saw, Detachable-tooth. D. W. Jenkins. No. 1,337,016; Apr. 13; v. 273; p. 309.
Sawing, drilling, grinding, &c., Machine for. P. Morris. No. 1,337,147; Apr. 13; v. 273; p. 334.
Scaffold-bracket. G. F. Moore. No. 1,337,088; Apr. 13; v. 273; p. 323.
Scraper, Bearing-. M. A. Burch. No. 1,336,885; Apr. 13; v. 273; p. 284.
Scraper, Flue-. B. M. Berntson. No. 1,336,673; Apr. 13; v. 273; p. 243.
Screens, Apparatus for producing smoke-. R. C. Benner and H. F. French. No. 1,336,557; Apr. 13; v. 273; p. 221.
Screw. J. W. Caldwell. No. 1,336,773; Apr. 13; v. 273; p. 262.
Sea-current-direction indicator. S. Sakauye. No. 1,336,925; Apr. 13; v. 273; p. 292.
Seat-cushion Upholstered. E. C. Lang and C. A. Van Derveer. No. 1,336,525; Apr. 13; v. 273; p. 214.
Sedimentation apparatus. C. L. Peck. No. 1,337,094; Apr. 13; v. 273; p. 324.
Sedimentation apparatus. C. L. Peck. No. 1,337,095; Apr. 13; v. 273; p. 324.
Separating-machine, Centrifugal. R. E. Lapham. No. 1,336,968; Apr. 13; v. 273; p. 300.
Separating-machine. C. H. McArthur. No. 1,336,848; Apr. 13; v. 273; p. 277.
Separator: *See*—
Grain-separator. Steam-separator.
Sewing-machine. A. H. De Voe. No. 1,336,824; Apr. 13; v. 273; p. 272.
Sewing-machines, Thread-cutting mechanism for. W. L. Barron and F. E. Osol. No. 1,336,808; Apr. 13; v. 273; p. 269.
Sewing-machines, Trimming mechanism for. A. H. De Voe. No. 1,336,825; Apr. 13; v. 273; p. 273.
Shackle, Leaf-spring. S. M. Stone. No. 1,336,446; Apr. 13; v. 273; p. 200.
Sharpener. G. W. Phillips. No. 1,337,154; Apr. 13; v. 273; p. 335.
Sheet-moving mechanism. C. E. Throop. No. 1,336,598; Apr. 13; v. 273; p. 229.
Shell, Explosive. D. G. Edwards. No. 1,336,828; Apr. 13; v. 273; p. 273.
Shelving, Adjustable. A. H. Levene. No. 1,336,971; Apr. 13; v. 273; p. 300.
Shelving, Metallic. E. C. Staples. No. 1,336,490; Apr. 13; v. 273; p. 208.
Ships' decks, bulkheads, walls, floors, ceilings, &c., Covering or insulation for. J. Davies, W. H. Jones, J. Davies, and H. J. Hale. No. 1,336,683; Apr. 13; v. 273; p. 245.
Shock-absorber. C. Pardee. No. 1,336,534; Apr. 13; v. 273; p. 216.
Shoe and making same. J. F. Marshall. No. 1,336,784; Apr. 13; v. 273; p. 265.
Shoe, Rubber. F. A. Joseph. No. 1,336,962; Apr. 13; v. 273; p. 299.
Shoe-turning machine. E. I. La Chapelle. No. 1,336,750; Apr. 13; v. 273; p. 258.
Show-case. S. M. Debakey. No. 1,337,049; Apr. 13; v. 273; p. 316.
Shutter, Focal plane. E. C. Bass. (Reissue.) No. 14,837; Apr. 13; v. 273; p. 340.
Sign. G. E. Fuller. No. 1,336,517; Apr. 13; v. 273; p. 213.
Sign, Automatic display-. J. B. Barnett. No. 1,336,411; Apr. 13; v. 273; p. 193.
Sign mechanism. C. Roberts. No. 1,336,585; Apr. 13; v. 273; p. 226.
Signal: *See*—
Automobile-signal. Railroad-crossing signal.
Signal device. C. F. Smith. No. 1,336,489; Apr. 13; v. 273; p. 207.
Signal system. C. Muckenfuss. No. 1,337,021; Apr. 13; v. 273; p. 310.
Signals, Receiver-mounting for submarine. E. C. Wood. No. 1,336,497; Apr. 13; v. 273; p. 209.
Signaling and train-stop system. J. R. Coker. No. 1,336,889; Apr. 13; v. 273; p. 285.
Slabbing and loading machine. E. O. Toole. No. 1,336,440; Apr. 13; v. 273; p. 198.
Slack-adjuster. W. W. Hunzicker. No. 1,336,522; Apr. 13; v. 273; p. 214.
Slime-thickener. W. E. Darrow. No. 1,336,553; Apr. 13; v. 273; p. 220.
Socket and adapter. W. Halter. No. 1,336,431; Apr. 13; v. 273; p. 197.
Sound-reproducing machines, Brake or stop device for. R. T. Bell and L. Mandel. No. 1,336,606; Apr. 13; v. 273; p. 230.
Spark-plug. H. J. Munster. No. 1,336,914; Apr. 13; v. 273; p. 290.
Spark-plug. E. A. Warner. No. 1,337,169; Apr. 13; v. 273; p. 338.
Speed, Mechanical device for transmitting and regulating. C. Sollima. No. 1,336,542; Apr. 13; v. 273; p. 218.
Spindle. D. Lemoine and G. P. Fournier. No. 1,336,467; Apr. 13; v. 273; p. 203.
Spine-exerciser. B. Macfadden. No. 1,336,910; Apr. 13; v. 273; p. 289.
Sponge, Tanned. W. H. Allen. No. 1,336,806; Apr. 13; v. 273; p. 269.
Spoon and fork, Combined. E. S. Whyte. No. 1,337,174; Apr. 13; v. 273; p. 339.
Spring: *See*—
Auto-tire spring. Clock-spring.
Berth safety-spring. Vehicle-spring.
Spring-plank, Interlocking. H. W. Wolff. No. 1,336,458; Apr. 13; v. 273; p. 202.
Sprinkler. R. W. Johnson and J. Bloom. No. 1,336,699; Apr. 13; v. 273; p. 248.
Stanchion, Cattle-. N. Logan. No. 1,336,975; Apr. 13; v. 273; p. 301.
Stand: *See*—
Engine-stand.
Staples, and particularly for attaching buttons to articles, Machine for attaching. A. J. Matter. No. 1,336,786; Apr. 13; v. 273; p. 265.
Stationary jack. W. J. E. Damker. No. 1,336,620; Apr. 13; v. 273; p. 233.
Steam-separator. H. H. Tracy. No. 1,336,870; Apr. 13; v. 273; p. 281.
Steel-ball-making machine. K. Kobayashi. No. 1,337,079; Apr. 13; v. 273; p. 321.
Steering reach-rod. R. A. Kaps. No. 1,337,138; Apr. 13; v. 273; p. 332.
Step. S. P. Barksdale. No. 1,336,718; Apr. 13; v. 273; p. 252.
Stone-profiling machine. E. A. Chase. No. 1,336,942; Apr. 13; v. 273; p. 295.
Store, Home. S. M. Debakey. No. 1,337,050; Apr. 13; v. 273; p. 316.
Stove, Heating-. P. W. Banta. No. 1,336,412; Apr. 13; v. 273; p. 194.

Stove, Portable fireplace heating-. W. H. Johnston. No. 1,336,700; Apr. 13; v. 273; p. 248.
Switch: *See*—
Electric switch. Overhead switch.
Electromagnetic switch. Trolley-switch.
Measuring-instrument switch.
Switch face-plate and lock. H. Kaplan. No. 1,337,137; Apr. 13; v. 273; p. 332.
Switches, Safety device for point-. L. Dunn. No. 1,337,054; Apr. 13; v. 273; p. 317.
Syringe with protecting-hood, Injection-. G. T. Court. No. 1,336,730; Apr. 13; v. 273; p. 254.
Table: *See*—
Extension-table. Osteopathic table.
Table and gage, Combined work-. J. W. Vaughan. No. 1,336,799; Apr. 13; v. 273; p. 268.
Table and ironing-board. G. W. Hudson. No. 1,336,433; Apr. 13; v. 273; p. 197.
Table-top. A. N. Clough. No. 1,336,818; Apr. 13; v. 273; p. 271.
Table-top, Collapsible. R. A. Gillies. No. 1,336,954; Apr. 13; v. 273; p. 297.
Talking-machines, Mechanism-support for. J. C. Kenney. No. 1,336,842; Apr. 13; v. 273; p. 276.
Tank: *See*—
Watering-tank.
Tape, Buttonhole-. C. E. Oathout. No. 1,336,577; Apr. 13; v. 273; p. 224.
Teeth, Producing digging-. W. G. Nichols. No. 1,336,576; Apr. 13; v. 273; p. 224.
Telegraphy. J. H. Bell. No. 1,336,414; Apr. 13; v. 273; p. 194.
Telephone-cord. A. Relhing. No. 1,336,859; Apr. 13; v. 273; p. 279.
Telephone-receiver holder. C. F. Simpson. No. 1,336,929; Apr. 13; v. 273; p. 293.
Tenoning and equalizing machine. W. F. McCarty. No. 1,337,143; Apr. 13; v. 273; p. 333.
Testing device. M. W. Davis. No. 1,336,424; Apr. 13; v. 273; p. 196.
Testing device. F. E. Harpst. No. 1,337,132; Apr. 13; v. 273; p. 331.
Testing-machine. J. S. Stull. No. 1,336,543; Apr. 13; v. 273; p. 218.
Theater-chair. V. F. Linke. No. 1,336,641; Apr. 13; v. 273; p. 236.
Thermostat. F. J. Heideman. No. 1,336,518; Apr. 13; v. 273; p. 213.
Thread-gage. G. B. Lockey and A. F. Lawson. No. 1,337,018; Apr. 13; v. 273; p. 309.
Thread-holder. C. Davis. No. 1,336,554; Apr. 13; v. 273; p. 220.
Thread-holder. C. H. Hoofnagle. No. 1,336,903; Apr. 13; v. 273; p. 288.
Threading-machine. W. E. Elliott. No. 1,336,777; Apr. 13; v. 273; p. 263.
Tillage-blade. C. E. Curtiss. No. 1,336,821; Apr. 13; v. 273; p. 272.
Time-controlled dead-locking device. R. C. Lewis. No. 1,337,083; Apr. 13; v. 273; p. 322.
Time-controlled mechanism. R. H. Berkstresser. No. 1,337,037; Apr. 13; v. 273; p. 313.
Tire. E. Carran. No. 1,336,817; Apr. 13; v. 273; p. 271.
Tire. H. K. Wheelock. No. 1,336,452; Apr. 13; v. 273; p. 201.
Tire, Pneumatic. E. M. Story. No. 1,336,663; Apr. 13; v. 273; p. 241.
Tire-protector. I. Raffelson. No. 1,336,757; Apr. 13; v. 273; p. 259.
Tire, Vehicle-. E. R. Simms. No. 1,336,790; Apr. 13; v. 273; p. 266.
Tires, Retreading. S. H. Goldberg. No. 1,336,624; Apr. 13; v. 273; p. 234.
Tires, Retreading. F. Maier. No. 1,336,911; Apr. 13; v. 273; p. 289.
Toasting and boiling device. W. H. Ketler. No. 1,336,565; Apr. 13; v. 273; p. 222.
Toll trunk-circuit. O. F. Cassaday. No. 1,336,615; Apr. 13; v. 273; p. 232.
Tongs, Tie-handling. H. R. Stovall. No. 1,337,101; Apr. 13; v. 273; p. 325.
Tool, Automobile-tire. L. H. Osterhage. No. 1,336,916; Apr. 13; v. 273; p. 290.
Tool, Boring and reaming. C. F. Heinkel. No. 1,337,015; Apr. 13; v. 273; p. 309.
Tool-holder or tool. J. M. Lamb. No. 1,336,466; Apr. 13; v. 273; p. 203.
Tool, Roof-framing. L. A. Van Nest. No. 1,337,107; Apr. 13; v. 273; p. 326.
Toothbrush, Reversible. D. G. White. No. 1,337,173; Apr. 13; v. 273; p. 339.
Torpedo-shooting device. S. Rogozea. No. 1,336,656; Apr. 13; v. 273; p. 239.
Tote-box. A. H. Levene. No. 1,336,972; Apr. 13; v. 273; p. 300.
Toy. C. W. Ebeling. No. 1,336,556; Apr. 13; v. 273; p. 220.
Toy. R. E. Humbert. No. 1,336,434; Apr. 13; v. 273; p. 197.
Toy building Block. O. W. Ward. No. 1,337,171; Apr. 13; v. 273; p. 338.
Toy-constructing material. A. N. Hall. No. 1,336,626; Apr. 13; v. 273; p. 234.
Toy, Mechanical. W. F. Pautzke. No. 1,336,756; Apr. 13; v. 273; p. 259.
Track-link. E. E. Wickersham. No. 1,336,876; Apr. 13; v. 273; p. 282.
Tractor. A. D. Cole. No. 1,336,890; Apr. 13; v. 273; p. 285.
Tractor. P. Dessaules. No. 1,336,823; Apr. 13; v. 273; p. 272.
Tractor. P. E. Hoft. No. 1,336,961; Apr. 13; v. 273; p. 298.
Tractor. O. L. Plettner and W. H. Lowe. No. 1,336,581; Apr. 13; v. 273; p. 225.
Tractor-wheel. E. Snider. No. 1,336,791; Apr. 13; v. 273; p. 266.
Tractors, Track-support for chain-track. W. Turnbull. No. 1,336,871; Apr. 13; v. 273; p. 281.
Trailer for camping purposes. W. J. Hannam. No. 1,336,627; Apr. 13; v. 273; p. 234.
Train-controlling system. B. A. Prince and E. I. La Count. No. 1,336,484; Apr. 13; v. 273; p. 207.
Transmission-cases, Device for holding bolts of. R. Libenschek. No. 1,337,084; Apr. 13; v. 273; p. 322.
Transmission, Combined differential and clutch. P. M. Myers. No. 1,336,532; Apr. 13; v. 273; p. 216.
Transportation apparatus. L. W. Chism. No. 1,336,551; Apr. 13; v. 273; p. 220.
Trap: *See*—
Mousetrap.
Trap. W. M. Fulton. No. 1,337,064; Apr. 13; v. 273; p. 319.
Trap. N. S. Nelson and A. Boode. No. 1,337,149; Apr. 13; v. 273; p. 334.
Trellis. G. T. Parr. No. 1,336,580; Apr. 13; v. 273; p. 225.
Trolley-retriever. J. Kozak. No. 1,336,966; Apr. 13; v. 273; p. 299.
Trolley-switch. J. J. Ruddick. No. 1,336,485; Apr. 13; v. 273; p. 207.
Truck, Lifting-. W. Stuebing, Jr. (Reissue.) No. 14,839; Apr. 13; v. 273; p. 341.
Truck tractor, Motor-. W. and M. H. Paterson. No. 1,336,653; Apr. 13; v. 273; p. 239.
Truss. J. Doleck. No. 1,336,513; Apr. 13; v. 273; p. 212.
Tubes, Receptacle for pneumatic-tire. M. F. Swerer. No. 1,337,178; Apr. 13; v. 273; p. 340.
Turbine-driven set. R. G. Standerwick. No. 1,337,098; Apr. 13; v. 273; p. 325.
Turbine, Elastic-fluid. C. S. Rice. No. 1,337,096; Apr. 13; v. 273; p. 394.
Turbine, Steam-. R. J. Dupuy. No. 1,336,827; Apr. 13; v. 273; p. 273.
Typewriting and adding-machine collating device. J. A. Wherry. No. 1,336,453; Apr. 13; v. 273; p. 201.
Typewriter and adding-machine collating device. J. A. Wherry. No. 1,336,454; Apr. 13; v. 273; p. 201.
Typewriting-machines, Pressure-roller for. O. Thieme and F. O. Mueller. No. 1,336,797; Apr. 13; v. 273; p. 267.
Underreamer. H. E. Brown. No. 1,336,884; Apr. 13; v. 273; p. 284.
Universal joint. W. H. Thiemer. No. 1,336,985; Apr. 13; v. 273; p. 303.
Vacuum-cleaner. C. W. Stewart. No. 1,336,760; Apr. 13; v. 273; p. 260.
Vacuum cleaning apparatus. C. W. Barnes. No. 1,336,994; Apr. 13; v. 273; p. 304.
Valve-control system. W. G. Ferguson. No. 1,336,515; Apr. 13; v. 273; p. 212.
Valve, Flush-. E. L. Kellan. No. 1,337,177; Apr. 13; v. 273; p. 339.
Valve-grinder. D. A. Runnion. No. 1,336,863; Apr. 13; v. 273; p. 280.
Valve mechanism. G. A. Suffa. No. 1,336,447; Apr. 13; v. 273; p. 200.
Valve-seats, Facing-tool for dressing. F. A. and B. P. Dexter. No. 1,337,052; Apr. 13; v. 273; p. 316.
Valve, Steam-. J. Wallace and T. R. Lees. No. 1,336,451; Apr. 13; v. 273; p. 200.
Valves, Manufacturing puppet-. C. F. Couve. No. 1,337,001; Apr. 13; v. 273; p. 306.
Vehicle-awning. P. M. Gervig. No. 1,336,953; Apr. 13; v. 273; p. 297.
Vehicle, Motor-. H. D. Church. No. 1,336,462; Apr. 13; v. 273; p. 202.
Vehicle, Self-propelled. R. A. Wakefield. No. 1,336,935; Apr. 13; v. 273; p. 294.
Vehicle-spring. I. D. Longel and S. S. Shears. No. 1,336,468; Apr. 13; v. 273; p. 204.
Vehicle-spring bracket. F. C. Ewing. No. 1,336,829; Apr. 13; v. 273; p. 273.
Vehicles, Auxiliary spring for motor-. D. Nettenstrom. No. 1,336,481; Apr. 13; v. 273; p. 206.
Vehicles, Differential for self-propelling. J. R. Lowry. No. 1,336,643; Apr. 13; v. 273; p. 237.
Vehicles, Signal device for motor-. R. B. Benjamin. No. 1,336,609; Apr. 13; v. 273; p. 231.
Vehicles, Suspension device for caterpillar-. E. Fuchs. No. 1,336,832; Apr. 13; v. 273; p. 274.
Vehicles, Theft-detecting means for. H. W. Irwin and W. K. Hawk. No. 1,336,745; Apr. 13; v. 273; p. 257.
Velocipede, Child's. W. Atkins. No. 1,336,879; Apr. 13; v. 273; p. 283.
Vending-machine. M. H. Harris. No. 1,336,743; Apr. 13; v. 273; p. 257.
Vending-machine. G. W. Miller. No. 1,336,478; Apr. 13; v. 273; p. 205.

Ventilator. S. F. McDonald. No. 1,336,470; Apr. 13; v. 273; p. 204.
Vessel. J. H. Schlueter. No. 1,336,866; Apr. 13; v. 273; p. 280.
Vessels, Water-cooled valve for closing the funnels of submarine. H. E. Yarrow. No. 1,337,110; Apr. 13; v. 273; p. 327.
Vibrator. G. B. Pickop. No. 1,336,921; Apr. 13; v. 273; p. 291.
Vine-cutter. G. L. McCready. No. 1,336,976; Apr. 13; v. 273; p. 301.
Violins, Peg-box cover for. F. M. Ashley. No. 1,336,409; Apr. 13; v. 273; p. 193.
Vise. R. Parmelee. No. 1,336,754; Apr. 13; v. 273; p. 259.
Vise. R. Parmelee. No. 1,336,755; Apr. 13; v. 273; p. 259.
Vises, Supplementary jaws for. G. W. Borchers. No. 1,336,610; Apr. 13; v. 273; p. 231.
Vulcanizing-press detector. R. D. Whalley. No. 1,337,172; Apr. 13; v. 273; p. 338.
Waffle-iron. F. De Graff. No. 1,336,734; Apr. 13; v. 273; p. 255.
Wagon-brake. R. L. Haney. No. 1,336,956; Apr. 13; v. 273; p. 298.
Wagon-brake. J. S. Lockard. No. 1,336,909; Apr. 13; v. 273; p. 289.
Wagon-reach. J. S. Mack. No. 1,336,645; Apr. 13; v. 273; p. 237.
Wagon-train. W. A. Underhill and C. C. Avery. No. 1,336,665; Apr. 13; v. 273; p. 241.
Washing-machine. H. C. Hirschy. No. 1,336,781; Apr. 13; v. 273; p. 264.
Water-heater, Electric. W. F. Cutler. No. 1,337,120; Apr. 13; v. 273; p. 329.
Water-heater, Gas. D. W. Allman. No. 1,336,937; Apr. 13; v. 273; p. 294.
Water-mixer. S. K. Onzoun-Boghossian. No. 1,336,917; Apr. 13; v. 273; p. 290.
Watering tank, Stock-. F. G. Johnson. No. 1,337,075; Apr. 13; v. 273; p. 321.
Water-tube boiler. H. O. Baker. No. 1,336,714; Apr. 13; v. 273; p. 251.
Weeder, Adjustable. J. Gilson, Sr. No. 1,336,623; Apr. 13; v. 273; p. 232.
Weighing device, Automatic. R. Leumann. No. 1,336,705; Apr. 13; v. 273; p. 249.
Welded joint and welding. L. P. Patterson. No. 1,337,023; Apr. 13; v. 273; p. 310.
Well-boring, Fishing-tool for use in. H. S. Cairns. No. 1,336,815; Apr. 13; v. 273; p. 270.
Wellpacker. H. W. Fletcher. No. 1,336,738; Apr. 13; v. 273; p. 256.
Wells, Torpedo for shooting oil-. J. A. Fryer and W. W. Wallace. No. 1,337,063; Apr. 13; v. 273; p. 318.
Wheel: *See*—
Tractor-wheel.
Wheel with demountable rim, Vehicle-. J. C. Manternach. No. 1,336,531; Apr. 13; v. 273; p. 215.
Wheels, Plunger-rod for spring-. J. L. Harden. No. 1,337,068; Apr. 13; v. 273; p. 319.
Whip-socket. R. F. Doll. No. 1,336,948; Apr. 13; v. 273; p. 296.
Windmill-gearing. G. W. Roberts. No. 1,336,758; Apr. 13; v. 273; p. 259.
Windmills, Electric-generator attachment for. V. L. Sullivan. No. 1,336,544; Apr. 13; v. 273; p. 218.
Window-cleaning attachment. F. V. Bank. No. 1,336,672; Apr. 13; v. 273; p. 243.
Wire-blank-cutting apparatus, Automatic. J. Becker. No. 1,336,605; Apr. 13; v. 273; p. 230.
Wire cloth, Making canvas-. A. Dreyling and W. C. Locke. No. 1,337,053; Apr. 13; v. 273; p. 317.
Wire for making chains and other articles of jewelry. R. Trunk. No. 1,336,449; Apr. 13; v. 273; p. 200.
Wire-stretcher. S. C. Reppe. No. 1,337,159; Apr. 13; v. 273; p. 336.
Wire stretcher and winder. A. C. Lemke and L. L. Almeter. No. 1,337,142; Apr. 13; v. 273; p. 333.
Wire-wheel rim and making. F. R. Klaus. No. 1,336,965; Apr. 13; v. 273; p. 299.
Wire-wrapping and winding machine. E. T. Musson. No. 1,336,649; Apr. 13; v. 273; p. 238.
Wrapping, cartoning, and packing machine. T. E. Heeter. No. 1,336,838; Apr. 13; v. 273; p. 275.
Wrapping-machine. E. D. Anderson. No. 1,336,549; Apr. 13; v. 273; p. 219.
Wrench: *See*—
Pipe-wrench.
Wrench. S. Stepanian. No. 1,336,794; Apr. 13; v. 273; p. 267.
Wrench. W. L. Stover. No. 1,337,102; Apr. 13; v. 273; p. 325.
Wrench. W. W. Woodward. No. 1,336,460; Apr. 13; v. 273; p. 202.
Wringer: *See*—
Clothes-wringer.
Writing, Device for mechanically aiding the hand in. W. J. Henry. No. 1,336,432; Apr. 13; v. 273; p. 197.
Yarn and fabric and producing. A. G. Fromuth. No. 1,336,516; Apr. 13; v. 273; p. 213.
Zinc solutions, Purification of. S. Field. No. 1,337,058; Apr. 13; v. 273; p. 318.

ALPHABETICAL LIST OF DESIGNS.

Automobile. R. Booth. No. 54,830; Apr. 13; v. 273; p. 342.
Band or article of similar nature, Wrapping-. H. B. Duane. No. 54,836; Apr. 13; v. 273; p. 343.
Bed-pan, Douche. V. Loewenberg. No. 54,856; Apr. 13; v. 273; p. 347.
Blouse, Woman's. A. H. Flanders. Nos. 54,837–9; Apr. 13; v. 273; p. 344.
Bottle or jug. C. H. Dayton. No. 54,834; Apr. 13; v. 273; p. 343.
Bowl. T. G. Jones. No. 54,850; Apr. 13; v. 273; p. 346.
Cabinet, Newspaper-vending. O. J. Hotaling. No. 54,841; Apr. 13; v. 273; p. 344.
Cabinet, Phonograph-. W. A. Mangless. No. 54,857; Apr. 13; v. 273; p. 347.
Cabinet, Sewing-machine. W. C. Free. No. 54,840; Apr. 13; v. 273; p. 344.
Cabinet, Sterilizing-. E. C. Booth. No. 54,829; Apr. 13; v. 273; p. 342.
Chair. E. E. Rewick. No. 54,863; Apr. 13; v. 273; p. 348.
Collar holder, Gentleman's soft-. K. Staufenbell. No. 54,873; Apr. 13; v. 273; p. 350.
Container, Toilet-powder and jewelry. H. T. Clodfelter. No. 54,833; Apr. 13; v. 273; p. 343.
Dish, Covered. E. J. Johnson. No. 54,849; Apr. 13; v. 273; p. 346.
Dispensing-receptacle. R. R. Smith. No. 54,871; Apr. 13; v. 273; p. 350.
Display-rack. B. E. Willett. No. 54,883; Apr. 13; v. 273; p. 352.
Dresser. E. E. Rewick. No. 54,864; Apr. 13; v. 273; p. 349.
Electric generating unit. H. D. Shamberg. No. 54,868; Apr. 13; v. 273; p. 349.
Fan and lamp, Combined electric. T. E. Clark. No. 54,832; Apr. 13; v. 273; p. 343.
Faucet, Self-closing. H. Jarvis. No. 54,847; Apr. 13; v. 273; p. 346.
Game-board. J. F. Toohey. No. 54,877; Apr. 13; v. 273; p. 351.
Gas-burner. A. J. Johnson. No. 54,848; Apr. 13; v. 273; p. 346.
Gas-burner. H. E. Kerr. No. 54,851; Apr. 13; v. 273; p. 346.
Gas-burner. H. E. Kerr and W. J. Barber. No. 54,852; Apr. 13; v. 273; p. 347.
Goblet. A. F. Saunders. No. 54,866; Apr. 13; v. 273; p. 349.
Hair-clippers, Handle for. W. J. Van Osdel. No. 54,861; Apr. 16; v. 273; p. 348.
Heel, Rubber. T. Mear. No. 54,859; Apr. 13; v. 273; p. 348.
Ice-cream dish. A. F. Saunders. No. 54,867; Apr. 13; v. 273; p. 349.
Inkstand. F. M. Ashley. No. 54,824; Apr. 13; v. 273; p. 341.
Lamp. L. J. Ripich. No. 54,865; Apr. 13; v. 273; p. 349.
Lamp-front frame. W. F. Auklam. No. 54,823; Apr. 13; v. 273; p. 341.
Lamps, Glass cover-plate for headlight. C. J. Newburgh. No. 54,858; Apr. 13; v. 273; p. 348.
Lighting-fixture arm. G. Westphal. No. 54,881; Apr. 13; v. 273; p. 351.
Magneto-electric-machine armature. A. H. Bartsch. No. 54,827; Apr. 13; v. 273; p. 342.
Measuring instrument, Portable electrical. A. H. Hoyt. No. 54,843; Apr. 13; v. 273; p. 345.
Padlock. E. B. Stone. No. 54,874; Apr. 13; v. 273; p. 350.
Pincushion. C. Lafitte. No. 54,853; Apr. 13; v. 273; p. 347.
Pipe, Tobacco-. P. F. Campbell. No. 54,831; Apr. 13; v. 273; p. 343.
Plate, Fiber. L. D. Jacoby. No. 54,846; Apr. 13; v. 273; p. 345.
Pump-handle. R. Sidel. No. 54,869; Apr. 13; v. 273; p. 349.
Radiator casing, Automobile-. G. G. Behn. No. 54,828; Apr. 13; v. 273; p. 342.
Rake, Garden-. I. Tsuchiya. No. 54,878; Apr. 13; v. 273; p. 351.
Receptacle for toilet powders and other salable commodities. C. S. Humphrey. No. 54,845; Apr. 13; v. 273; p. 345.
Rocking-horse. J. Van Wuyckhuyse. No. 54,879; Apr. 13; v. 273; p. 351.
Roll, matrix, die, or similar article. L. T. Bartlett. No. 54,826; Apr. 13; v. 273; p. 342.

Rug, Grass. O. T. Waite. No. 54,880; Apr. 13; v. 273; p. 351.
Seat and table, Combined. W. L. White. No. 54,882; Apr. 13; v. 273; p. 352.
Sight-feed for oil-pipe. W. A. Rarig. No. 54,862; Apr. 13; v. 273; p. 348.
Signpost. R. C. Tilghman. No. 54,876; Apr. 13; v. 273; p. 351.
Spoon. T. B. Lashar. No. 54,854; Apr. 13; v. 273; p. 347.
Steam-distributer and baster for cooking apparatus. A. M. Demuth. No. 54,835; Apr. 13; v. 273; p. 343.
Tire-cover. P. M. Lockwood. No. 54,855; Apr. 13; v. 273; p. 347.
Tire, Rubber. E. G. Hulse. No. 54,844; Apr. 13; v. 273; p. 345.
Tool, Combination-. J. Barnes. No. 54,825; Apr. 13; v. 273; p. 342.
Toy aeroplane. L. B. Nicholas. No. 54,860; Apr. 13; v. 273; p. 348.
Toy vehicle. A. H. Stamm. No. 54,872; Apr. 13; v. 273; p. 350.
Vehicle-body. J. Silverstein. No. 54,870; Apr. 13; v. 273; p. 350.
Washing-machine. W. K. Howe. No. 54,842; Apr. 13; v. 273; p. 345.
X-ray dental apparatus, Cabinet for. W. H. Thwaites. No. 54,875; Apr. 13; v. 273; p. 350.

ALPHABETICAL LIST OF TRADE-MARKS.

Aircraft, Aircraft-seats, cover-clips, &c., for. A. V. Roe & Co. No. 130,231; Apr. 13; v. 273; p. 403.
Aircraft, Automatic. G. L. Martin. No. 130,210; Apr. 13; v. 273; p. 403.
Bacteriological culture. T. A. Walsh. No. 130,245; Apr. 13; v. 273; p. 404.
Bath-room fixtures. Bay Ridge Specialty Co. No. 130,152; Apr. 13; v. 273; p. 401.
Beef, Corned. Libby, McNeill & Libby. No. 130,203; Apr. 13; v. 273; p. 403.
Belting, hose, machinery packing. Imperial Belting Company. No. 130,192; Apr. 13; v. 273; p. 402.
Belts, Binding, textile braiding, and tape. Hope Webbing Company. Nos. 130,186–90; Apr. 13; v. 273; p. 402.
Beverage. Jacob Ries Bottling Works. No. 130,229; Apr. 13; v. 273; p. 403.
Beverage, Malt. Centlivre Beverage Co. No. 130,163; Apr. 13; v. 273; p. 401.
Beverage, Non-intoxicating. Buckeye Brewing Co. No. 130,159; Apr. 13; v. 273; p. 401.
Beverage, Non-intoxicating. Fred Miller Brewing Co. No. 130,213; Apr. 13; v. 273; p. 403.
Beverage, Non-intoxicating carbonated. G. L. Becker. No. 130,153; Apr. 13; v. 273; p. 401.
Beverages, Non-alcoholic. M. Winter. No. 130,250; Apr. 13; v. 273; p. 404.
Beverages, Non-alcoholic fruit. Monopole Vineyards Corporation. No. 130,214; Apr. 13; v. 273; p. 403.
Beverages, syrups, colors, and flavors, Non-alcoholic. Whittle & Mutch. No. 130,247; Apr. 13; v. 273; p. 404.
Boilers, Steam-. Mears Brothers Mfg. Co. No. 130,211; Apr. 13; v. 273; p. 403.
Braids, Alsatian. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 130,175–6; Apr. 13; v. 273; p. 402.
Bread. Henry Blewett & Son. No. 130,156; Apr. 13; v. 273; p. 401.
Brooms, Bridles for. Johnson, McGarr & Warren. No. 130,193; Apr. 13; v. 273; p. 402.
Brushes used as sash-tools. United Brush Manufactories. No. 130,243; Apr. 13; v. 273; p. 404.
Building material, Creosoted. National Creosote Company. No. 130,216; Apr. 13; v. 273; p. 403.
Building material, Metal. Gagen Sales Corporation. No. 130,179; Apr. 13; v. 273; p. 402.
Burners and furnaces, Hydrocarbon, &c. The Denver Fire Clay Company. No. 130,172; Apr. 13; v. 273; p. 402.
Buttons, Non-metallic. Morley Button Manufacturing Company. No. 130,215; Apr. 13; v. 273; p. 403.
Candy. M. M. Anthony. No. 130,149; Apr. 13; v. 273; p. 401.
Candy. R. F Bergengren No. 130,154; Apr. 13; v. 273; p. 401.
Carbureters and mixing-manifolds for internal-combustion engines. The Wight Investment Company. No. 130,248; Apr. 13; v. 273; p. 404.
Cars, Motor-. The New Merlin Cycle Co. No. 130,218; Apr. 13; v. 273; p. 403.
Cartons, boxes, shipping-envelops, &c. Hinde & Douch Paper Co. No. 130,185; Apr. 13; v. 273; p. 402.
Cement, Building-. Ultramares Corporation. No. 130,242; Apr. 13; v. 273; p. 404.
Check, Metal discount-. A. F. Winslow. No. 130,249; Apr. 13; v. 273; p. 404.
Chocolate, Sweet. Knickerbocker Chocolate. No. 130,197; Apr. 13; v. 273; p. 402.
Cigars. P. Hector. No. 130,184; Apr. 13; v. 273; p. 402.
Clothing. Knox Hat Company. No. 130,198; Apr. 13; v. 273; p. 402.
Cloths, Pressing-. T. W. Jones. No. 130,194; Apr. 13; v. 273; p. 402.
Coffee. Ruefly Bros. No. 130,233; Apr. 13; v. 273; p. 404.
Cradles, pilot-beams, end sills, &c. Commonwealth Steel Company. No. 130,166; Apr. 13; v. 273; p. 401.
Derricks, Portable hoisting-. John F. Byers Machine Company. No. 130,161; Apr. 13; v. 273; p. 401.
Dress-fasteners. Ultramares Corporation. No. 130,241; Apr. 13; v. 273; p. 404.
Engines, Internal-combustion. Rolls-Royce, Limited. No. 130,232; Apr. 13; v. 273; p. 403.
Fertilizers. Crabbs Reynolds Taylor Co. No. 130,168; Apr. 13; v. 273; p. 401.
Flour. Omaha Flour Mills Co. No. 130,220; Apr. 13; v. 273; p. 403.
Flour, Wheat-. Rice Cereal Company. No. 130,228; Apr. 13; v. 273; p. 403.
Flour, Wheat-. Robinson Milling Co. No. 130,230; Apr. 13; v. 273; p. 403.
Food compound, Vegetable. P. Kleckner. No. 130,196; Apr. 13; v. 273; p. 402.
Foods. H. Foersterling. No. 130,178; Apr. 13; v. 273; p. 402.
Foods. Plainwell Canning & Preserving Company. No. 130,224; Apr. 13; v. 273; p. 403.
Foods. Tolerton & Warfield Co. No. 130,239; Apr. 13; v. 273; p. 404.
Foods and ingredients of foods. S. D. Abrams. No. 130,143; Apr. 13; v. 273; p. 401.
Foods and ingredients of foods. I. Burger. No. 130,160; Apr. 13; v. 273; p. 401.
Fuel made of coal, Powdered. Powdered Coal Engineering & Equipment Company. No. 130,225; Apr. 13; v. 273; p. 403.
Furnace, Air-heating. P. C. De Vol Hardware Company. No. 130,173; Apr. 13; v. 273; p. 402.
Furniture. J. S. Blankinship. No. 130,155; Apr. 13; v. 273; p. 401.
Furniture, automobile, &c., polish. A. Zweibach. No. 130,251; Apr. 13; v. 273; p. 404.
Garters, armbands, &c. S. Levy. No. 130,200; Apr. 13; v. 273; p. 403.
Garters, hose-supporters, and armbands. A. Stein & Company. No. 130,238; Apr. 13; v. 273; p. 404.
Ginger-ale, &c. S. L. Goldman. No. 130,180; Apr. 13; v. 273; p. 402.
Glass. Corning Glass Works. No. 130,167; Apr. 13; v. 273; p. 401.
Glass jars. Phoenix-Hermetic Company. No. 130,223; Apr. 13; v. 273; p. 403.
Glass articles, Cut-. Lotus Cut Glass Company. No. 130,208; Apr. 13; v. 273; p. 403.
Grapes, Fresh. L. Rusconi. No. 130,234; Apr. 13; v. 273; p. 404.
Headlight-glasses. Warner Lenz Company. No. 130,246; Apr. 13; v. 273; p. 404.
Headlight lenses, Automobile-. C. A. Shaler Company. No. 130,235; Apr. 13; v. 273; p. 404.
Heel-grips. W. Guinzburg. No. 130,181; Apr. 13; v. 273; p. 402.
Hides and leather. American National Shoe & Leather Corp. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
Horological instruments. Lenox Jewelry Co. No. 130,199; Apr. 13; v. 273; p. 403.
Icing for cake and bread. E. Probst. No. 130,226; Apr. 13; v. 273; p. 403.
Insulation, Structural material for. American Balsa Co. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
Lard compound. Dixie Refining Co. No. 130,174; Apr. 13; v. 273; p. 402.
Leather. Ultramares Corporation. No. 130,240; Apr. 13; v. 273; p. 404.
Lighting-fixtures, Glass. Phoenix Glass Company. No. 130,222; Apr. 13; v. 273; p. 403.
Lumber and veneers. Nickey Brothers. No. 130,219; Apr. 13; v. 273; p. 403.
Lumber stock material. Brown Brothers Company. No. 130,157; Apr. 13; v. 273; p. 401.
Machines, Tiering-. Brown Portable Conveying Machinery Co. No. 130,158; Apr. 13; v. 273; p. 401.
Malt extracts, Non-alcoholic. V. Loewer's Gambrinus Brewery Co. No. 130,207; Apr. 13; v. 273; p. 403.
Milk, Evaporated. National Dairy Co. No. 130,217; Apr. 13; v. 273; p. 403.
Oil and olives, Olive-. A. Da Costa. No. 130,170; Apr. 13; v. 273; p. 401.
Oil, Olive-. B. J. Spiropoulos. No. 130,237; Apr. 13; v. 273; p. 404.
Pavements, Bituminous. Simpson Bros. Corporation. No. 130,236; Apr. 13; v. 273; p. 404.
Powders, Face-. F. N. Lewis. No. 130,201; Apr. 13; v. 273; p. 403.

Rivet-sets, and metal-working punches. Mac-It Parts Company. No. 130,209; Apr. 13; v. 273; p. 403.
Seeds, Field and garden. T. H. Cochrane Co. No. 130,165; Apr. 13; v. 273; p. 401.
Seeds, Garden, vegetable and field. Lewis Implement and Seed Company. No. 130,202; Apr. 13; v. 273; p. 403.
Sheet-metal fasteners for corsets, rubber button-bases, &c. Kabo Corset Company. No. 130,195; Apr. 13; v. 273; p. 402.
Staple forming and affixing machines and parts. Hutchison Office Specialties Co. No. 130,191; Apr. 13; v. 273; p. 402.
Stovepipe, gas, coal and wood stoves, portable ovens. Wm. Enders Manufacturing Company. No. 130,177; Apr. 13; v. 273; p. 402.
Sugar-drops, butter bonbons, &c., Boiled. James Pascall, Ltd. No. 130,221; Apr. 13; v. 273; p. 403.
Syrups, Corn and cane products. Hardaway-Cargill Co. No. 130,183; Apr. 13; v. 273; p. 402.
Tea. W. S. Quinby Company. No. 130,227; Apr. 13; v. 273; p. 403.
Tents and canopies, awnings, &c. John Curtin Corporation. No. 130,169; Apr. 13; v. 273; p. 401.
Thread and yarn. H. E. Locke & Company. No. 130,204; Apr. 13; v. 273; p. 403.
Thread and yarn. H. E. Locke & Company. No. 130,206; Apr. 13; v. 273; p. 403.
Threads and yarns. American Trading Company. No. 130,148; Apr. 13; v. 273; p. 401.
Tools, Rotary. Edgar C. Guthard Co. No. 130,182; Apr. 13; v. 273; p. 402.
Torches and parts thereof, Cutting and welding. Bastian-Blessing Company. No. 130,151; Apr. 13; v. 273; p. 401.
Tractors. Midwest Engine Co. No. 130,212; Apr. 13; v. 273; p. 403.
Vehicle-springs, fender-braces, shock-absorbers. A R G Auxiliary Spring Co. No. 130,150; Apr. 13; v. 273; p. 401.
Walnut-meats. California Walnut Growers Association. No. 130,162; Apr. 13; v. 273; p. 401.
Water and beverages made from same, Natural spring-. Chippewa Springs Corporation. No. 130,164; Apr. 13; v. 273; p. 401.
Waterproof truck and tractor covers, tarpaulins, &c. Dafoe-Eustice Company. No. 130,171; Apr. 13; v. 273; p. 401.
Wrenches. W. Worcester. No. 130,244; Apr. 13; v. 273; p. 404.

ALPHABETICAL LIST OF LABELS.

"Armory Brand." (For Canned Food Products.) Walker-Matteson Co. No. 21,803; Apr. 13; v. 273; p. 405.
"Candies." (For Candy.) Milwaukee Paper Box Company. No. 21,794; Apr. 13; v. 273; p. 405.
"Charcoal Tooth Paste." (For Tooth-Paste.) P. A. Mandabach. No. 21,793; Apr. 13; v. 273; p. 405.
"Cowan's Preferred Coffee." (For Coffee.) Earl Cowan Co. Inc. No. 21,778; Apr. 13; v. 273; p. 405.
"Evaporated Washington Apples." (For Evaporated Apples.) Northwest Evaporating Company. No. 21,795; Apr. 13; v. 273; p. 405.
"Falls." (For Coffee.) Dwinell-Wright Company. No. 21,779; Apr. 13; v. 273; p. 405.
"J. Handler Lacoin." (For Stains and Varnishes.) J. Handler. No. 21,784; Apr. 13; v. 273; p. 405.
"Jetto Black Dye." (For Black Dyes.) Shine-Easy Shoe Polish Company. No. 21,798; Apr. 13; v. 273; p. 405.
"Kellogg's Roasted Korn Krisp." (For Roasted Korn Krisp.) Kellogg Toasted Corn Flake Co. No. 21,787; Apr. 13; v. 273; p. 405.
"Kellogg's Shredded Krumbles." (For Shredded Krumbles.) Kellogg Toasted Corn Flake Co. No. 21,786; Apr. 13; v. 273; p. 405.
"Keystone Brand." (For Cherries.) Keystone Fruit Products Co. No. 21,788; Apr. 13; v. 273; p. 405.
"Laxative Chocolate Bar." (For Laxative Chocolate Bars.) P. A. Mandabach. No. 21,792; Apr. 13; v. 273; p. 405.
"Magnolia." (For Cigars.) Magnolia Cigar Company. No. 21,790; Apr. 13; v. 273; p. 405.
"Mentho-Malted Horehound Kisses." (For Hoarhound Kisses.) P. A. Mandabach. No. 21,791; Apr. 13; v. 273; p. 405.
"Novelite Spreads." (For Bedspreads.) B. F. Bailey & Co. No. 21,777; Apr. 13; v. 273; p. 405.
"Old Dutch." (For Non-Intoxicating Cereal Beverage.) The Krantz Products Company. No. 21,789; Apr. 13; v. 273; p. 405.
"Overland." (For Apples.) Weiser Air Storage Co. No. 21,804; Apr. 13; v. 273; p. 405.
"Quick Whip." (For an Egg Product.) The International Company. No. 21,785; Apr. 13; v. 273; p. 405.
"School House." (For Coffee.) Dwinell-Wright Company. No. 21,781; Apr. 13; v. 273; p. 405.
"Shine-Easy Shoe Polish." (For Shoe-Polish.) Shine-Easy Shoe Polish Company. No. 21,799; Apr. 13; v. 273; p. 405.
"Star & Crescent." (For Coffee.) Dwinell-Wright Company. No. 21,780; Apr. 13; v. 273; p. 405.
"The Drink that kept Milwaukee Famous." (For Fruit Nectar.) Ex-Zact Food Products Co. No. 21,782; Apr. 13; v. 273; p. 405.
"The Fly Catcher U-Hang-Up." (For Flycatchers of Paper-Ribbon Type.) Graef & Russell. No. 21,783; Apr. 13; v. 273; p. 405.
"Thurber's Bartlett Pears." (For Canned Bartlett Pears.) Alfred Putnam & Company. No. 21,797; Apr. 13; v. 273; p. 405.
"Thurber's Windham Corn." (For Canned Corn.) Alfred Putnam & Company. No. 21,796; Apr. 13; v. 273; p. 405.
"Underwood's Sardines in Mustard Dressing." (For Sardines.) William Underwood Company. No. 21,800; Apr. 13; v. 273; p. 405.
"Underwood's Sardines in Oil." (For Sardines.) William Underwood Company. No. 21,801; Apr. 13; v. 273; p. 405.
"Vogt's Philadelphia Scrapple." (For Scrapple.) F. G. Vogt & Sons, Incorporated. No. 21,802; Apr. 13; v. 273; p. 405.

ALPHABETICAL LIST OF PRINTS.

"Bankers' Diamond Selection Service." (For Diamonds.) Jacob Bennett Inc. No. 5,240; Apr. 13; v. 273; p. 406.
"Learning to Drink Martin's Calf Feed." (For Calf Feed.) Martin Calf Feed Company. No. 5,241; Apr. 13; v. 273; p. 406.
"P. A. has such a joy'us way of making men glad about jimmy pipes!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,244; Apr. 13; v. 273; p. 406.
"P. A. plays such a glad tune in that old jimmy pipe!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,242; Apr. 13; v. 273; p. 406.
"You've got 'em Breaking Right." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,243; Apr. 13; v. 273; p. 406.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Acetylene cutting and welding machines and lighting plants, steam-boilers. Allied Machinery Company of America. No. 124,244; Apr. 13; v. 273; p. 370.
Advertising-folder. Bert L. White Company. No. 113,597; Apr. 13; v. 273; p. 356.
Aeroplane covers and tents. Handley Page Limited. No. 126,860; Apr. 13; v. 273; p. 388.
Air-compressor equipments and parts thereof, Unitary. The United States Air Compressor Co. No. 126,294; Apr. 13; v. 273; p. 383.
Alcohol, Methyl. The Will Corporation. No. 124,159; Apr. 13; v. 273; p. 370.
Alloy. Blue Ridge Metals Corporation. No. 124,783; Apr. 13; v. 273; p. 272.
Alloys of copper, tin, zinc, and phosphor bronze. The Phosphor Bronze Smelting Company. No. 108,657; Apr. 13; v. 273; p. 354.
Antiseptic for use in the nose. J. O. Beauchamp. No. 123,300; Apr. 13; v. 273; p. 366.
Antiseptic, germicide, and deodorant. C. L. Stocks. No. 125,477; Apr. 13; v. 273; p. 376.
Antiseptics. Spirocide Corporation. No. 126,291; Apr. 13; v. 273; p. 383.
Aprons, Women's. L. Schreiber. No. 121,132; Apr. 13; v. 273; p. 362.
Automobile curtain-window, Glass. Wm. R. Johnston Mfg. Co. No. 106,261; Apr. 13; v. 273; p. 354.
Automobiles. The Baker R. & L. Company. No. 119,543; Apr. 13; v. 273; p. 360.
Bag or pouch closures or mouthpieces, Tobacco. J. T. H. Paterson. No. 116,898; Apr. 13; v. 273; p. 359
Bags. Milwaukee Bag Company. No. 126,135; Apr. 13; v. 273; p. 381.
Bags, Hand-. Danda-Halpern Co. No. 123,971; Apr. 13; v. 273; p. 369.
Baking-powder. The Great Atlantic and Pacific Tea Company. No. 126,319; Apr. 13; v. 273; p. 383.
Baking-powder, soda, cream of tartar, ammonia, and liquid blue. The Great Atlantic and Pacific Tea Company. No. 126,317; Apr. 13; v. 273; p. 383.
Belting, Leather. The Grafton and Knight Manufacturing Company. No. 117,667; Apr. 13; v. 273; p. 359.
Belting, Leather. J. J. Freadrich. No. 122,430; Apr. 13; v. 273; p. 364.
Beltings, leather laces. Jewell Belting Company. No. 121,347; Apr. 13; v. 273; p. 262.
Beverage, Cereal, maltless. L. Roy. No. 125,400½; Apr. 13; v. 273; p. 376.
Beverage, Maltless, non-alcoholic. Best Beverage & Specialty Co. No. 122,622; Apr. 13; v. 273; p. 364.
Biscuit. National Biscuit Company. Nos. 128,007–9; Apr. 13; v. 273; p. 396.
Biscuit. National Biscuit Company. No. 128,011; Apr. 13; v. 273; p. 396.
Blue, Wash-. Simeon & Elting. No. 124,870; Apr. 13; v. 273; p. 373.
Boots and shoes. American Italian Trading Company McDonnell, Truda & Berlingieri. No. 123,782; Apr. 13; v. 273; p. 368.
Brassières. C. V. Havens. No. 127,244; Apr. 13; v. 273; p. 391.
Bread. Ward Baking Company. No. 128,057; Apr. 13; v. 273; p. 396.
Bread. Ward Baking Company. No. 128,415; Apr. 13; v. 273; p. 399.
Bread. Ward Baking Company. No. 128,417; Apr. 13; v. 273; p. 399.
Bricks and building-blocks. H. J. F. Ludeman. No. 129,508; Apr. 13; v. 273; p. 399.
Brooms, brushes, and mops. Geo. A. Fink Co. No. 126,176; Apr. 13; v. 273; p. 381.
Building and roofing purposes, Composition strips and sheets for. Cleveland-Akron Bag Company. No. 127,034; Apr. 13; v. 273; p. 389.
Buildings and structural elements thereof, Permanent. H. K. Ferguson Company. No. 124,301; Apr. 13; v. 273; p. 371.
Bunting. C. H. Reed. No. 127,098; Apr. 13; v. 273; p. 390.
Candies. Hawley & Hoops. No. 128,301; Apr. 13; v. 273; p. 398.
Candies. Lady Jefferson Candy Company. No. 126,934; Apr. 13; v. 273; p. 389.
Candles. Safety Night Light Company. No. 127,263; Apr. 13; v. 273; p. 392.
Candies. Stearns-Hollinshead Co. No. 127,940; Apr. 13; v. 273; p. 396.
Candy. American Candy Company. No. 128,191; Apr. 13; v. 273; p. 397.
Candy. American Candy Manufacturing Co. No. 128,193; Apr. 13; v. 273; p. 397.
Candy. Grand Union Tea Co. No. 125,838; Apr. 13; v. 273; p. 379.
Candy. Page & Shaw. No. 127,873; Apr. 13; v. 273; p. 395.
Candy. R. Pauley. No. 125,855; Apr. 13; v. 273; p. 379.
Candy. Schuler Chocolate Factory. No. 127,935; Apr. 13; v. 273; p. 395.
Candy. Schuler Chocolate Factory. No. 128,114; Apr. 13; v. 273; p. 397.
Candy, Confections, chocolate, &c. Ideal Cocoa & Chocolate Co. Nos. 126,523–4; Apr. 13; v. 273; pp. 385–6.
Canes, Parasoles, and umbrellas. Tiffany & Company. No. 128,257; Apr. 13; v. 273; p. 398.
Canned fish. Von Bremen, Asche & Co. No. 127,744; Apr. 13; v. 273; p. 394.
Canned fish, fruits, and vegetables. A. Rupert Company. No. 126,065; Apr. 13; v. 273; p. 381.
Canned fruits and vegetables. Herbert Packing Co. No. 127,645; Apr. 13; v. 273; p. 394.
Canned fruits and vegetables. Herbert Packing Co. No. 127,649; Apr. 13; v. 273; p. 394.
Canned fruits, vegetables and jams. Croker Packing Co. No. 126,506; Apr. 13; v. 273; p. 385.
Canned pork and beans, apple-butter, jams, &c. Acme Packing Company. No. 127,023; Apr. 13; v. 273; p. 389.
Canned vegetables. J. E. Barr Pickling & Preserving Company. Nos. 128,134–6; Apr. 13; v. 273; p. 397.
Canned vegetables. Crary Brokerage Company. No. 126,851; Apr. 13; v. 273; p. 388.
Capsules for headache, Medicated. C. P. Sohn. No. 125,066; Apr. 13; v. 273; p. 374.
Carbon preventive or gas-intensifier, Chemical. C. A. Butler. Nos. 124,844–5; Apr. 13; v. 273; p. 372.
Carbon-removers. The Ryan-Eastman Co. No. 126,197; Apr. 13; v. 273; p. 382.
Carpets. Harrod's Stores, Limited. No. 126,026; Apr. 13; v. 273; p. 380.
Cars, Tank-. General American Tank Car Corporation. No. 126,469; Apr. 13; v. 273; p. 385.
Castings, Malleable-iron. Fort Pitt Malleable Iron Co. No. 124,174; Apr. 13; v. 273; p. 370.
Cheese. J. L. Kraft & Bros. Co. No. 127,249; Apr. 13; v. 273; p. 392.
Chemicals and chemical oils for use in the manufacture of fertilizer. Eugene Suter & Company. No. 115,188; Apr. 13; v. 273; p. 357.
Chocolate. Norma Chocolate Company. No. 127,601; Apr. 13; v. 273; p. 393.
Chocolates. Schall's Inc. No. 128,280; Apr. 13; v. 273; p. 398.
Cigarettes. Frishmuth Bros. & Company. No. 116,155; Apr. 13; v. 273; p. 358.
Cigarettes. R. D. Messayeh. No. 126,649; Apr. 13; v. 273; p. 387.
Cigarettes. Halle-Perris Trading Corporation. No. 123,025; Apr. 13; v. 273; p. 365.
Cigars. Ponzio Brothers Cigar Co. No. 115,663; Apr. 13; v. 273; p. 357.
Cigars. Progressive Cigar Corporation of Philadelphia. No. 126,424; Apr. 13; v. 273; p. 384.
Cigars. Walker-Matteson Company. No. 126,603; Apr. 13; v. 273; p. 386.
Cigars, cigarettes, chewing and smoking tobacco. F. A. de Pilis. No. 123,204; Apr. 13; v. 273; p. 366.
Clothes-lines. C. C. Davis. No. 127,902; Apr. 13; v. 273; p. 395.
Clothes, Men's and young men's. Morris Marans Sons. No. 118,270; Apr. 13; v. 273; p. 359.
Clothing. Levi Strauss & Co. No. 125,866; Apr. 13; v. 273; p. 379.
Clothing, Boys' outer. American Novelty Wash Suit Co. No. 120,864; Apr. 13; v. 273; p. 361.
Coat, Shawl-. Louis Katzman, Inc. No. 127,247; Apr. 13; v. 273; p. 392.
Coats for young boys and girls. M. Berkwitz. No. 126,163; Apr. 13; v. 273; p. 381.
Coats, outer vests, and work-shirts for men. Johnson-Bostwick & Co. No. 126,731; Apr. 13; v. 273; p. 388.
Cocoa in powdered form, Instantaneous. Smith & Clark Company. No. 127,017; Apr. 13; v. 273; p. 389.
Cocoanut-butter. National Cocoanut Butter Company. No. 120,710; Apr. 13; v. 273; p. 361.
Cocoanut, Packaged, grated, and shredded. Franklin Baker Company. No. 126,958; Apr. 13; v. 273; p. 389.
Coffee. L. H. Davis. No. 127,798; Apr. 13; v. 273; p. 394.
Coffee. The E. C. Harley Company. Nos. 127,914–16; Apr. 13; v. 273; p. 395.
Coffee, tea, spices, mustard, &c. David G. Evans Coffee Co. No. 127,637; Apr. 13; v. 273; p. 394.
Concrete slabs, Composition for making. The National Builders Company. No. 117,124; Apr. 13; v. 273; p. 359.

Cookers, Fireless. The Diller Mfg. Co. No. 128,765; Apr. 13; v. 273; p. 399.
Corn, concentrated tomatoes, tomatoes, pears, beets, &c., all cooked and canned. Great Atlantic and Pacific Tea Company. Nos. 126,667–8; Apr. 13; v. 273; p. 387.
Corn, feed, and grain bins, hog-feeders, troughs, and silo-chutes. Farm Equipment Co. No. 126,683; Apr. 13; v. 273; p. 387.
Corsets. The Van Orden Company. Nos. 127,160–2; Apr. 13; v. 273; p. 390.
Couches, Extension or sliding. The United States Spring Bed Company. No. 124,559; Apr. 13; v. 273; p. 371.
Cream, Skin-. The Geer Drug Company. No. 120,531; Apr. 13; v. 273; p. 361.
Creams and nutmegs, Food-flavoring. The Brown Chemical Co. No. 127,889; Apr. 13; v. 273; p. 395.
Creams, Face-. Partola Distributing Company. No. 121,018; Apr. 13; v. 273; p. 362.
Creams, talcum powders, rouge, &c., Face, massage, cold, and vanishing. The Pompeian Mfg. Co. No. 124,730; Apr. 13; v. 273; p. 371.
Detergents, fluid for removing spots, &c. C. E. Renneckar. No. 124,918; Apr. 13; v. 273; p. 373.
Doughnuts. S. G. Leoffler, Jr. No. 127,229; Apr. 13; v. 273; p. 391.
Draw-pulls, tray and door handles, sash-lifts, &c. National Brass Company. No. 124,227; Apr. 13; v. 273; p. 370.
Dress-shields and diaper-supporters, Armpit. M. S. George. No. 127,121; Apr. 13; v. 273; p. 390.
Dresses. I. Mittelman & Co. No. 123,553; Apr. 13; v. 273; p. 367.
Dresses, House or apron. Sterling Manufacturing Company. No. 128,117; Apr. 13; v. 273; p. 397.
Dresses, Ladies' and misses'. Mamie Solomon Company. No. 126,328; Apr. 13; v. 273; p. 384.
Drills and shirtings. William Schall & Co. No. 122,370; Apr. 13; v. 273; p. 363.
Dyes combined with soap. Sunbeam Chemical Company. No. 120,721; Apr. 13; v. 273; p. 361.
Eggs in powdered form. Empire Bakers Specialty Co. No. 127,964; Apr. 13; v. 273; p. 396.
Electrical conduits, conductors, and merchandise. The Thomas & Betts Co. No. 107,952; Apr. 13; v. 273; p. 354.
Envelops, writing papers, and tablets, Mailing and correspondence. American Papeteric Company. No. 125,594; Apr. 13; v. 273; p. 377.
Eye-wash. Valmas Drug Co. No. 123,007; Apr. 13; v. 273; p. 365.
Fabrics, Woven, printed, and dyed drapery. A. M. Barbe. No. 126,894; Apr. 13; v. 273; p. 389.
Fats, Refined and unrefined. De Nordiske Fabriker, De-No-Fa, Aktieselskab. No. 123,310; Apr. 13; v. 273; p. 367.
Feed, Dairy and stock. Chapin & Company. No. 115,372; Apr. 13; v. 273; p. 357.
Feed, Horse. Western Feed Manufacturers. No. 127,192; Apr. 13; v. 273; p. 391.
Feed, Scratch. Western Feed Manufacturers. Nos. 127,194–5; Apr. 13; v. 273; p. 391.
Feeds, Poultry and stock. J. Cushing Co. No. 126,099; Apr. 13; v. 273; p. 381.
Fertilizer. The American Agricultural Chemical Company. No. 118,537; Apr. 13; v. 273; p. 360.
Fire-extinguishing compound, Chemical. Carbon Products Company. No. 124,167; Apr. 13; v. 273; p. 370.
Fishing-tackle. Cumberland (Aylestone) Limited. No. 123,303; Apr. 13; v. 273; p. 367.
Flooring, Lumber and hardwood. The Mowbray & Robinson Company. No. 125,789; Apr. 13; v. 273; p. 378.
Floors and stuccos of magnesite base, Composition. G. B. Smith. No. 123,558; Apr. 13; v. 273; p. 367.
Flour, Cake-. W. C. Dorsett. No. 125,948; Apr. 13; v. 273; p. 379.
Flour, Self-rising. The Longmont Farmer's Milling & Elevator Company. No. 101,151; Apr. 13; v. 273; p. 354.
Flour, Wheat-. The Atchison Mills Corporation. No. 128,291; Apr. 13; v. 273; p. 398.
Flour, Wheat-. T. L. Carroll Company. No. 128,664; Apr. 13; v. 273; p. 399.
Flour, Wheat-. The Milling Products Co. No. 128,350; Apr. 13; v. 273; p. 398.
Flour, Wheat-. The Scott County Milling Company. No. 128,864; Apr. 13; v. 273; p. 399.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 127,808; Apr. 13; v. 273; p. 394.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 127,812; Apr. 13; v. 273; p. 394.
Flour, Wheat-. Washburn Crosby Co. No. 129,111; Apr. 13; v. 273; p. 399.
Flour, Wheat and pancake. O. W. Everetts. No. 128,204; Apr. 13; v. 273; p. 398.
Food, Concentrated. U. S. Emergency Ration Corp. No. 115,650; Apr. 13; v. 273; p. 357.
Furnace structures, Refractory lining for. Quigley Furnace Specialties Co. No. 121,211; Apr. 13; v. 273; p. 362.
Furniture and woodwork, Polish for. F. A. Rader. No. 125,250; Apr. 13; v. 273; p. 375.
Furniture, automobile, and piano polish. Edmund Schneider Co. No. 115,817; Apr. 13; v. 273; p. 357.
Furniture, Office. Cutler Desk Co. No. 118,829; Apr. 13; v. 273; p. 360.

Garments, except hats, Women's outer. H. Hunvald. No. 113,059; Apr. 13; v. 273; p. 355.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 127,036; Apr. 13; v. 273; p. 389.
Gasolene. Southern Oil Corporation. No. 128,027; Apr. 13; v. 273; p. 396.
Germicide, disinfectant, antiseptic, and deodorant. Parke, Davis & Company. No. 125,669; Apr. 13; v. 273; p. 378.
Glass globes and reflectors for artificial light. Holophane Glass Company. No. 108,712; Apr. 13; v. 273; p. 354.
Glassware, covered jars, baskets, vases, &c. George Borgfeldt & Co. No. 120,659; Apr. 13; v. 273; p. 361.
Gloves. The Biltwell Glove Company. No. 124,587; Apr. 13; v. 273; p. 371.
Gloves and mittens, Leather and cloth. Wisconsin-Pilot Glove Company. No. 125,590; Apr. 13; v. 273; p. 377.
Gloves, Knit. Morgan Knitting Mills. No. 127,385; Apr. 13; v. 273; p. 392.
Gowns. J. Nemser. No. 126,871; Apr. 13; v. 273; p. 389.
Grain for chick and poultry feed, &c., Mixed. International Sugar Feed Co. No. 108,851; Apr. 13; v. 273; p. 355.
Grapes, Fresh. L. Rusconi. No. 122,612; Apr. 13; v. 273; p. 364.
Grease-cups. The Lunkenheimer Company. No. 123,061; Apr. 13; v. 273; p. 365.
Grease-cups. The Lunkenheimer Company. No. 123,064; Apr. 13; v. 273; p. 365.
Hair, Coloring for the. J. Goldman. No. 126,320; Apr. 13; v. 273; p. 383.
Hair-coloring for the eyebrows and skin. Panafieu Pere et Fils. No. 126,331; Apr. 13; v. 273; p. 384.
Hair-restorer. M. Braunberg. No. 123,603; Apr. 13; v. 273; p. 368.
Hair-tonic. I. L. Secrest. No. 121,817; Apr. 13; v. 273; p. 363.
Hairpins, wire hairpins, hair-fasteners, hair-wavers, safety and toilet pins, Composition. Reichman & Faust. No. 127,488; Apr. 13; v. 273; p. 393.
Handkerchiefs. S. I. Gross. No. 123,282; Apr. 13; v. 273; p. 366.
Hats, Women's, misses', and children's trimmed. David Baird and Son. No. 126,442; Apr. 13; v. 273; p. 385.
Heaters and furnaces, Coal-burning. Michigan Service Corporation. No. 125,556½; Apr. 13; v. 273; p. 377.
Heel and toe plates for shoes. L. Hasel. No. 124,408; Apr. 13; v. 273; p. 371.
Herbaceous mixtures for treating asthma, &c. F. T. Stone. No. 124,872; Apr. 13; v. 273; p. 373.
Hides and leather. Kullman, Salz & Co. No. 116,573; Apr. 13; v. 273; p. 358.
Hosiery. Admiration Hosiery Co. No. 127,206; Apr. 13; v. 273; p. 391.
Hosiery. W. T. Grant Co. No. 128,045; Apr. 13; v. 273; p. 396.
Hosiery. Mitchell Hosiery Company. No. 123,251; Apr. 13; v. 273; p. 366.
Hosiery. Rodgers Hosiery Company. No. 127,186; Apr. 13; v. 273; p. 390.
Hosiery. The Fair. No. 126,568; Apr. 13; v. 273; p. 386.
Hosiery. A. A. Wuest. No. 126,080; Apr. 13; v. 273; p. 381.
Hosiery, neckties, and mufflers. Cisco, Inc. No. 127,170; Apr. 13; v. 273; p. 390.
Insecticides. Shoemaker & Busch. No. 124,869; Apr. 13; v. 273; p. 373.
Insecticides. Zin Mfg. Company. No. 125,765; Apr. 13; v. 273; p. 378.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 128,923; Apr. 13; v. 273; p. 399.
Jelly, plum jam, canned corn, prepared mustard, &c., Crab-apple. John R. Thompson Co. No. 125,810; Apr. 13; v. 273; p. 379.
Jumpers and overalls. Ely & Walker Dry Goods Company. No. 117,451; Apr. 13; v. 273; p. 359.
Kerosene. H. Earl Clack Company. No. 126,991; Apr. 13; v. 273; p. 389.
Knit vests, infants' knitted sacks, &c., Men's and women's. Hand Knit Hosiery Co. No. 121,976; Apr. 13; v. 273; p. 363.
Knitted and textile underwear and hosiery. Robert Reis & Co. No. 126,696; Apr. 13; v. 273; p. 387.
Knitted dress goods known as jersey cloth in the piece, Ladies'. C. Bahnsen & Co. No. 126,842; Apr. 13; v. 273; p. 388.
Laces and embroideries in the piece. Ely & Walker, D. G., Co. No. 113,445; Apr. 13; v. 273; p. 356.
Lamps, Electric. Maxwell-Ray Company. No. 121,180; Apr. 13; v. 273; p. 362.
Knitted underwear. Everett Knitting Works. No. 127,717; Apr. 13; v. 273; p. 394.
Laces, Shoe-. C. F. Schaeffer. No. 127,740; Apr. 13; v. 273; p. 388.
Lamps and radiators for therapeutic use, Electric. L. Steiner. No. 125,441; Apr. 13; v. 273; p. 376.
Laxative, Carbonated. Frank M. Fox & Co. No. 126,017; Apr. 13; v. 273; p. 380.
Laxative cold-tablets, cocoanut-oil shampoo, iron rust and stain remover. R. R. Stone. No. 125,980; Apr. 13; v. 273; p. 379.

Laxative medicine in candy form. Partola Distributing Company. No 123,172; Apr. 13; v. 273; p. 366.
Laxative tablet. L. H. Pockman. No. 123,220; Apr. 13; v. 273; p. 366.
Leather and particularly kid-leather. Dungan, Hood & Co. No. 123,022; Apr. 13; v. 273; p. 365.
Leather boots and shoes. Whitmore-Tirrell Shoe Corporation. No. 127,203; Apr. 13; v. 273; p. 391.
Leather hides. The Tropics Corporation. No. 127,844; Apr. 13; v. 273; p. 395.
Letters or numbers. Chas. F. Lorenzen & Co. No. 119,198; Apr. 13; v. 273; p. 360.
Letters or numbers. Chas. F. Lorenzen & Co. No. 119,522; Apr. 13; v. 273; p. 360.
Letters or numbers. Chas. F. Lorenzen & Co. No. 119,740; Apr. 13; v. 273; p. 360.
Liniment. N. Hodge. No. 119,948; Apr. 13; v. 273; p. 360.
Liniment, Medicinal oil. M. M. Wolff. No. 124,826; Apr. 13; v. 273; p. 272.
Lotion, Hand-. H. B. Andell. No. 102,761; Apr. 13; v. 273; p. 354.
Lotions, cold-creams, ointments. J. W. Wilder. No. 124,965; Apr. 13; v. 273; p. 373.
Lubricators, Mechanical. The Lunkenheimer Company. No. 123,070; Apr. 13; v. 273; p. 366.
Lumber, rough or dressed or run to any pattern, &c. Weyerhaeuser Forest Products. No. 126,297; Apr. 13; v. 273; p. 383.
Luminous material, Self-. Radium Luminous Material Corporation. No. 124,954; Apr. 13; v. 273; p. 373.
Macaroni, spaghetti, and noodles. P. F. Skinner. No. 127,664; Apr. 13; v. 273; p. 394.
Machinery and tools, dies, jigs, and parts thereof. Special Tool Engineering Manufacturing Company. No. 114,981; Apr. 13; v. 273; p. 356.
Magazine, Monthly. M. K. Burckett. No. 122,960; Apr. 13; v. 273; p. 364.
Medicinal compound for gum diseases. C. P. Girten. No. 126,470; Apr. 13; v. 273; p. 385.
Medical preparation for intestinal and urethral asepsis. E. O. Heinrich. No. 112,861; Apr. 13; v. 273; p. 355.
Medicinal preparation for headache, toothache, backache, &c. M. H. Taylor, Junior. No. 125,517; Apr. 13; v. 273; p. 377.
Medicinal preparation for diseases of the stomach, liver, &c. H. L. Hicks. No. 123,852; Apr. 13; v. 273; p. 368.
Medicinal preparations for certain skin disorders and as a blood-purifier. McKesson & Robbins. No. 125,299; Apr. 13; v. 273; p. 376.
Medicinal preparations for external use for the treatment of rheumatism, sprains, &c. McKesson & Robbins. No. 125,296; Apr. 13; v. 273; p. 375.
Medicinal preparations for external use in skin diseases, &c. McKesson & Robbins. No. 125,295; Apr. 13; v. 273; p. 375.
Medicinal preparations for germicidal purposes, &c. McKesson & Robbins. No. 125,297; Apr. 13; v. 273; p. 375.
Medicine for rheumatic ailments. E. L. Moadinger. No. 122,904; Apr. 13; v. 273; p. 364.
Medicine for the liver and kidneys. C. D. Stowe. No. 126,656; Apr. 13; v. 273; p. 387.
Medicines for the treatment of fever or inflammation, coughs, and colds, &c., Homeopathic. Humphreys Homeopathic Medicine Co. No. 124,270; Apr. 13; v. 273; p. 370.
Metal-polish. E. J. Palmer. No. 123,658; Apr. 13; v. 273; p. 368.
Middy-blouses and envelop-chemise. Higginbotham-Bailey-Logan Company. No. 111,869; Apr. 13; v. 273; p. 355.
Mouth-wash. The Austen Cologne Company. No. 125,647; Apr. 13; v. 273; p. 378.
Nails, Molders'. The Fowler Nail Co. No. 127,856; Apr. 13; v. 273; p. 395.
Napkin-holders commercially known as sanitary belts. Sanaho Specialty Company. No. 125,630; Apr. 13; v. 273; p. 377.
Necktles and cravats. F. D. Palmer. No. 126,393; Apr. 13; v. 273; p. 384.
Nerve and bone liniment, &c. C. E. Weber. No. 125,480; Apr. 13; v. 273; p. 376.
Nets, millinery-nettings, veils, &c., Dress-. Jennings Lace Works Corp. No. 125,053; Apr. 13; v. 273; p. 374.
Oil, Olive-. I. Haber. No. 123,283; Apr. 13; v. 273; p. 366.
Oil, Screw-cutting. Keystone Oil & Manufacturing Company. No. 127,431; Apr. 13; v. 273; p. 393.
Oil, Substitute for linseed-. The Hulbert Oil & Grease Co. No. 116,773; Apr. 13; v. 273; p. 359.
Oils and adhesive core compounds, Core-. Detroit Soluble Oil Co. No. 124,206; Apr. 13; v. 273; p. 370.
Oils, greases, naphthas, &c. Sun Company. No. 87,859; Apr. 13; v. 273; p. 353.
Ointment for wounds, abrasions, &c. Seminole Chemical Co. No. 116,308; Apr. 13; v. 273; p. 358.
Overalls. The Pioneer Overall Company. No. 111,658; Apr. 13; v. 273; p. 355.
Overalls and work-coats, Men's. The Helker-Wiechers Manufacturing Co. No. 115,618; Apr. 13; v. 273; p. 357.
Paint, Bituminous. The Barrett Company. No. 118,985; Apr. 13; v. 273; p. 360.
Paint for acoustical work, Coating-. J. H. Stone. No. 122,577; Apr. 13; v. 273; p. 364.
Paints. Block & Kuhl Company. No. 108,372; Apr. 13; v. 273; p. 354.
Paints, driers, enamels, &c. The Patterson-Sargent Company. No. 115,927; Apr. 13; v. 273; p. 358.
Pajamas and nightgowns. Ely & Walker Dry Goods Company. No. 119,703; Apr. 13; v. 273; p. 360.
Pants and coats, Boys'. Liberty Boys Knee Pants Co. No. 118,057; Apr. 13; v. 273; p. 359.
Paper and cloth strips or tapes used as a substitute for twine, and moistening-machines. New Products Company. No. 123,900; Apr. 13; v. 273; p. 369.
Paper, Collodion self-toning printing-out. J. L. Lewis. No. 123,993; Apr. 13; v. 273; p. 369.
Paper containers for food, &c., paper-body tubes, &c. Sealright Company. No. 116,448; Apr. 13; v. 273; p. 358.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 127,204; Apr. 13; v. 273; p. 391.
Paper fiber. M. B. Fredericks. No. 125,176; Apr. 13; v. 273; p. 375.
Paper for wrapping tires and other articles. Angier Mechanical Laboratories. No. 126,436; Apr. 13; v. 273; p. 385.
Paper-material disks. American Dairy Supply Company. No. 127,531; Apr. 13; v. 273; p. 393.
Paper, Printing and writing. American Writing Paper Co. Nos. 126,346–7; Apr. 13; v. 273; p. 384.
Paper-pu'p. The Procter and Gamble Company. No. 128,276; Apr. 13; v. 273; p. 398.
Paper, strawboards, shipping-tags, and envelops, Printing, writing, wrapping and toilet. Zellerbach Paper Company. No. 126,434; Apr. 13; v. 273; p. 385.
Paper tablets and note-books. The Reynolds & Reynolds Company. No. 116,667; Apr. 13; v. 273; p. 358.
Paper, Writing-. Buxton & Skinner Printing and Stationery Co. No. 116,295; Apr. 13; v. 273; p. 358.
Paper, Writing and wrapping, cardboard and paper mailing-envelops. M. & F. Schlosser. No. 126,748; Apr. 13; v. 273; p. 388.
Papers, and writing-tablets, Writing and printing. Osborn Paper Company. No. 125,721; Apr. 13; v. 273; p. 378.
Papers, bristol and card boards. Strathmore Paper Company. No. 124,737; Apr. 13; v. 273; p. 272.
Parasols and umbrellas. J. A. Migel, Inc. No. 128,361; Apr. 13; v. 273; p. 398.
Pens, Fountain-. A. Harris. No. 126,213; Apr. 13; v. 273; p. 382.
Petroleum products. Sun Company. No. 100,562; Apr. 13; v. 273; p. 353.
Phenylcinchoninic acid. Morgenstern & Company. No. 125,666; Apr. 13; v. 273; p. 378.
Phonographs. M. F. Fybush. No. 121,298; Apr. 13; v. 273; p. 362.
Phonographs. United Phonograph Corporation. No. 127,580; Apr. 13; v. 273; p. 393.
Phonographs and phonograph-records. The Acme Phonograph Company of Kansas City. No. 125,678; Apr. 13; v. 273; p. 378.
Phonographs, talking-machines, sound-boxes and needles therefor. R. G. Mitchell. No. 125,716; Apr. 13; v. 273; p. 378.
Piano and automobile polish. Emil Wiederhold & Bro. No. 125,815; Apr. 13; v. 273; p. 379.
Pianos. B. Shoninger Co. No. 126,396; Apr. 13; v. 273; p. 384.
Pipe-fittings and valves. Walworth Manufacturing Company. No. 125,140; Apr. 13; v. 273; p. 374.
Pipe joints and unions, &c. International Couplers Company. No. 118,149; Apr. 13; v. 273; p. 359.
Pipe-wrenches. Walworth Manufacturing Company. No. 125,446; Apr. 13; v. 273; p. 376.
Placket, glove, and snap fasteners, needles, &c. Waldes & Co. No. 121,070; Apr. 13; v. 273; p. 362.
Plants, Rose-. The Conard & Jones Company. No. 124,842; Apr. 13; v. 273; p. 272.
Pocket-books, wallets, card-cases, &c. Charles K. Cook, Incorporated. No. 114,946; Apr. 13; v. 273; p. 356.
Pockets for garments. J. C. Darst. No. 127,425; Apr. 13; v. 273; p. 393.
Polishing and wiping cloth. Regal Polishing Cloth Co. No. 121,993; Apr. 13; v. 273; p. 363.
Polishing preparation for automobiles, carriages, coaches, woodworks, &c. M. M. Williams. No. 125,270; Apr. 13; v. 273; p. 375.
Powder, Baby-. Chas. Ammen Co. No. 126,609; Apr. 13; v. 273; p. 386.
Powder for cleaning white shoes and clothing. J. A. Selby. No. 124,735; Apr. 13; v. 273; p. 371.
Powders and rouges, Face-. Julius Schmid, Incorporated. Nos. 125,435–6; Apr. 13; v. 273; p. 376.
Preparation for hardening and waterproofing cement mixtures. Granitex Company. No. 126,178; Apr. 13; v. 273; p. 382.
Preparation for use in disorders arising from imperfect or prevented digestion, &c. J. E. Jameson. No. 124,994; Apr. 13; v. 273; p. 374.
Preparation for use in the prevention and treatment of infectious diseases. G. Klemperer. No. 126,474; Apr. 13; v. 273; p. 385.

Preparations for repelling mosquitos and healing their bites. McKesson & Robbins. No. 125,298; Apr. 13; v. 273; p. 376.
Publication, Monthly. Michigan Lubricator Company. No. 122,647; Apr. 13; v. 273; p. 364.
Publication, Monthly. United Shoe Machinery Athletic Association. No. 122,374; Apr. 13; v. 273; p. 363.
Raincoats. Kahn Tailoring Company. No. 110,926; Apr. 13; v. 273; p. 355.
Ribbons in the piece. Johnson, Cowdin and Co. No. 124,111; Apr. 13; v. 273; p. 369.
Ribbons in the piece, Silk. The Taylor-Friedsam Company. No. 127,269; Apr. 13; v. 273; p. 392.
Roofing in rolls and sheets, shingles, strips, &c., Asphalt. The Lehon Company. No. 125,190; Apr. 13; v. 273; p. 375.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 125,957; Apr. 13; v. 273; p. 379.
Ropes, fiber cords, twine, and binder-twine, Non-metallic. E. F. Avery & Sons. No. 127,348; Apr. 13; v. 273; p. 392.
Rubber and canvas automobile-casings. Boone Tire & Rubber Company. No. 121,440; Apr. 13; v. 273; p. 363.
Rubber boot and shoe heels. United Lace & Braid Manufacturing Company. No. 113,134; Apr. 13; v. 273; p. 356.
Rubber-soled shoes. Sears, Roebuck and Co. No. 124,015; Apr. 13; v. 273; p. 369.
Rubber water bags and bottles. The Miller Rubber Company. No. 125,964; Apr. 13; v. 273; p. 379.
Rugs, Rag and grass. M. Feldman. No. 124,100; Apr. 13; v. 273; p. 369.
Sal-ammoniac and soldering fluid. Special Chemicals Company. No. 126,703; Apr. 13; v. 273; p. 388.
Salve for rheumatism, la grippe, colds, boils, burns, bunions, &c. E. J. Albrecht. No. 124,508; Apr. 13; v. 273; p. 371.
Salve, Menthol. Davis & Lawrence Company. No. 123,432; Apr. 13; v. 273; p. 367.
Salve composition for straightening the hair. Hairine Products Co. No. 125,111; Apr. 13; v. 273; p. 374.
Screw and chucking machines. The New Britain Machine Company. No. 126,193; Apr. 13; v. 273; p. 382.
Seeds, Flower, field, and vegetable. Stokes Seed Farms Company. No. 123,560; Apr. 13; v. 273; p. 367.
Seeds, Flower and sweet-pea. Oscar H. Will & Co. No. 128,186; Apr. 13; v. 273; p. 397.
Seeds, Grass and field. Continental Seed Company. No. 125,773; Apr. 13; v. 273; p. 378.
Seeds, Lawn and grass. Oscar H. Will & Co. No. 128,188; Apr. 13; v. 273; p. 397.
Sewing-machines and parts thereof. Union Special Machine Company. No. 91,026; Apr. 13; v. 273; p. 353.
Semitrailers. King Trailor Company. No. 127,593; Apr. 13; v. 273; p. 393.
Shampoo preparation, cold-cream, pomade, remedy for rheumatism, lumbago, &c. Omega Chemical Company. No. 126,694; Apr. 13; v. 273; p. 387.
Shampoos, Liquid and paste. Tipp Whip Company, The. No. 123,002; Apr. 13; v. 273; p. 365.
Sheets made of comminuted textile and fibrous material for building and roofing purposes, &c. The Cleveland-Akron Bag Co. No. 112,868; Apr. 13; v. 273; p. 355.
Shellfish used as fertilizers and fertilizer-fillers. Trent River Marl & Lime Co. No. 114,260; Apr. 13; v. 273; p. 350.
Shingles, Chinook Lumber & Shingle Co. No. 104,355; Apr. 13; v. 273; p. 354.
Shirts, work and night shirts, and pajamas, Men's flannel. A. Krolik & Company. No. 128,100; Apr. 13; v. 273; p. 397.
Shirt-waists, Ladies' La Rose Garment Company. No. 116,269; Apr. 13; v. 273; p. 358.
Shoe dressing, cleaner, and polish, Liquid. The National Shoe Service Co. No. 126,052; Apr. 13; v. 273; p. 381.
Shoes made of leather and cloth, Women's high and low. The Duttenhofer-Stevens Co. No. 126,013; Apr. 13; v. 273; p. 380.
Shoes for boys and girls, Brown Shoe Company. No. 128,076; Apr. 13; v. 273; p. 396.
Shoe-polish. Griffin M'f'g Co. No. 113,290; Apr. 13; v. 273; p. 356.
Shoes, hosiery, and knitted underwear and men's collars, Men's women's, and children's. Ginterman, Rosenfeld & Company. No. 124,139; Apr. 13; v. 273; p. 370.
Signals for vehicles, Traffic-. Auto Indicator Company. No. 121,227; Apr. 13; v. 273; p. 362.
Silk and cotton piece goods and combinations of the same. Turner & Wells. No. 125,984; Apr. 13; v. 273; p. 380.
Silk, &c., piece goods. J. A. Migel, Inc. No. 121,009; Apr. 13; v. 273; p. 361.
Silk piece goods. The H. R. Mallinson & Co. No. 125,966; Apr. 13; v. 273; p. 379.
Silks, satins, velvets, broadcloths, serge in the piece. J. Metzler. No. 126,043; Apr. 13; v. 273; p. 381.
Skin-emollient. L. Friend. No. 125,177; Apr. 13; v. 273; p. 375.
Skin-astringent. P. Graham. No. 126,019; Apr. 13; v. 273; p. 380.
Skylight-bars. Steelead Skylight Co. No. 120,942; Apr. 13; v. 273; p. 361.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 123,846; Apr. 13; v. 273; p. 368.
Soap. G. T. Georgis. No. 120,958; Apr. 13; v. 273; p. 361.
Soaps. Henry Thayer & Co., Inc. No. 115,166; Apr. 13; v. 273; p. 357.
Sound-records. T. L. Shaw. No. 127,336; Apr. 13; v. 273; p. 392.
Spark-plugs. Stitt Ignition Co. No. 122,088; Apr. 13; v. 273; p. 363.
Spoons, Wooden. J. H. Mullholland. No. 125,114; Apr. 13; v. 273; p. 374.
Stovepipes and elbows. Hemp & Co. (Corp.). No. 126,180; Apr. 13; v. 273; p. 382.
Stovepipes and elbows. Hemp & Co. (Corp.). No. 126,216; Apr. 13; v. 273; p. 382.
Stovepipes and elbows. Hemp & Co. (Corp.). No. 126,251; Apr. 13; v. 273; p. 382.
Stoves, Alcohol-. F. Chapman. No. 122,340; Apr. 13; v. 273; p. 363.
Suits, coats, sweaters, hats, house-gowns, trousers, &c. William Bloom & Co. No. 124,095; Apr. 13; v. 273; p. 369.
Sweaters, bathing-suits. Amer Knitting Mills. No. 116,400; Apr. 13; v. 273; p. 358.
Syringes, needles, &c., Hypodermic. Dental Products Company. No. 126,245; Apr. 13; v. 273; p. 382.
Syrup, table-. J. S. Bierhaus. No. 127,627; Apr. 13; v. 273; p. 393.
Syrup, Table-. The L. and T. Company. No. 121,207; Apr. 13; v. 273; p. 362.
Talking-machines, phonographs, &c. Sonora Phonograph Corporation. No. 123,590; Apr. 13; v. 273; p. 368.
Talking-machine records. Q. R. S. Company. No. 127,226; Apr. 13; v. 273; p. 391.
Textile fabrics in the piece, Worsted and woolen. Holden-Leonard Company. Nos. 126,414–5; Apr. 13; v. 273; p. 384.
Theaters, Miniature. E. Moore. No. 115,882; Apr. 13; v. 273; p. 357.
Thread and yarn. H. E. Locke & Company. No. 121,513; Apr. 13; v. 273; p. 363.
Thread, Shoe-. Commonwealth Thread Co. Nos. 124,974–5; Apr. 13; v. 273; p. 373.
Thread or yarn, Mercerized cotton. Summit Thread Company. No. 126,292; Apr. 13; v. 273; p. 383.
Tire patch, Pneumatic-. W. C. Knott. No. 122,600; Apr. 13; v. 273; p. 364.
Tires, Elastic vehicle-. The Norwalk Tire and Rubber Company. No. 125,162; Apr. 13; v. 273; p. 375.
Toilet preparations. Talcum Puff Company. No. 126,599; Apr. 13; v. 273; p. 386.
Toilet preparations. Hermo Co. No. 126,034; Apr. 13; v. 273; p. 380.
Tonic and an antiseptic powder, Liquid. C. R. Spicer. No. 126,596; Apr. 13; v. 273; p. 380.
Tonic, Hog-. O. D. Grawcock. No. 126,363; Apr. 13; v. 273; p. 384.
Tonic compound, Liquid heart-. William S. Merrell Company. No. 126,647; Apr. 13; v. 273; p. 387.
Tonic, Stomach-. M. D. Rybowski. No. 120,066; Apr. 13; v. 273; p. 361.
Toothbrushes. Williams, Davis, Brooks & Hinchman Sons. No. 125,987; Apr. 13; v. 273; p. 380.
Tooth-paste. Nulyne Laboratories. No. 124,864; Apr. 13; v. 273; p. 372.
Tooth-paste. A. H. de Goenaga. No. 126,563; Apr. 13; v. 273; p. 386.
Tooth-paste. J. J. Phillips. No. 125,627; Apr. 13; v. 273; p. 377.
Toys. O. M. Burton. No. 126,002; Apr. 13; v. 273; p. 380.
Toy velocipedes. Buster Manufacturing Company. No. 119,333; Apr. 13; v. 273; p. 360.
Treatment of influenza, Dry composition for the. J. R. Smith. No. 123,001; Apr. 13; v. 273; p. 365.
Trucks, Motor-. Ward La France Truck Co. No. 126,608; Apr. 13; v. 273; p. 386.
Tube-repairing outfit, Inner-. Red Seal Rubber Manufacturing Co. No. 123,366; Apr. 13; v. 273; p. 367.
Tungsten. Metal & Thermit Corporation. No. 127,657; Apr. 13; v. 273; p. 394.
Tuning-pins. American Musical Supply Co. No. 123,566; Apr. 13; v. 273; p. 368.
Twines, string, and cordage. C. C. Davis. No. 111,721; Apr. 13; v. 273; p. 355.
Typewriters. Blickensderfer Manufacturing Company. No. 124,638; Apr. 13; v. 273; p. 371.
Union-suits, Woven and knitted. Neustadter Brothers. No. 126,816; Apr. 13; v. 273; p. 388.
Valve for internal-combustion engines. Self-Seating Valve Company. No. 128,468; Apr. 13; v. 273; p. 399.
Valves, Compressor-. Bury Compressor Company. No. 126,302; Apr. 13; v. 273; p. 383.
Valves for general use, pump-governors, and pressure-reducing valves, Metal. Framingham Manufacturing Company. No. 124,046; Apr. 13; v. 273; p. 369.
Varnish, Prepared liquid. The Don-O-Lac Co. No. 125,950; Apr. 13; v. 273; p. 379.
Varnishes, wood-stains, lacquers, paint-enamels, &c. The Imperial Varnish and Color Company. No. 125,331; Apr. 13; v. 273; p. 376.
Vegetables, Fresh. Crown Packing Company. No. 127,900; Apr. 13; v. 273; p. 395.

ALPHABETICAL LIST OF TITLES.

(REGISTRATION APPLIED FOR.)

Voiles in the piece. M. Schwarz. No. 125,036; Apr. 13; v. 273; p. 374.

Washing compound. Mab Cleaner Manufacturing Company. No. 114,689; Apr. 13; v. 273; p. 356.

Washing machines, Clothes-. The Delite Manufacturing Co. No. 127,283; Apr. 13; v. 273; p. 392.

Washing machines, Laundry-. Allbaugh-Dover Company. No. 127,046; Apr. 13; v. 273; p. 390.

Watch and clock dials. J. R. Bartlett. No. 122,957; Apr. 13; v. 273; p. 364.

Watches, watch-movements, watch-cases, and parts thereof. American Swiss Watch Co. No. 125,072; Apr. 13; v. 273; p. 374.

Watches. The D. Gruen Sons & Company. No. 109,766; Apr. 13; v. 273; p. 355.

Waterproof leather belting. J. Bachmann. No. 123,018; Apr. 13; v. 273; p. 365.

Webs, Elastic. Faire Bros. & Co. No. 117,654; Apr. 13; v. 273; p. 359.

Waste cotton, silk, and waste papers, &c., Bales or bags of. M. Frank. No. 124,853; Apr. 13; v. 273; p. 372.

Wind instrument, Novelty. G. W. Stewart. No. 125,633; Apr. 13; v. 273; p. 377.

Wind-shield cleaners. Outlook Company. No. 124,915; Apr. 13; v. 273; p. 373.

Wind-shield or glass clear, Chemical compound for keeping. Cleroline Chemical Co. No. 123,157; Apr. 13; v. 273; p. 366.

Woodworking-machines. S. A. Woods Machine Co. No. 115,111; Apr. 13; v. 273; p. 356.

Wool and cotton mixed piece goods. Edward Ripley & Son. No. 122,498; Apr. 13; v. 273; p. 364.

Yarn, Knitting-. Carver-Beaver Yarn Co. No. 127,796; Apr. 13; v. 273; p. 394.

CLASSIFICATION OF PATENTS

ISSUED APRIL 13, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

2— 15: 1,336,614
57: 1,336,577
104: 1,336,763
149: 1,337,036
4— 13: 1,336,774
5— 4: 1,336,480
55: 1,337,012
1,337,150
71: 1,336,943
6— 2: 1,336,523
8— 19: 1,337,009
9— 11: 1,336,872
10— 126: 1,336,575
11— 2: 1,336,944
12— 2: 1,336,875
57: 1,336,750
147: 1,336,784
15— 39: 1,337,173
40: 1,337,056
51: 1,336,604
60: 1,336,760
1,336,994
16— 77: 1,336,527
1,337,042
112: 1,336,780
17— 11: 1,336,524
1,336,887
30: 1,336,472
18— 59: 1,336,911
19— 10: 1,337,067
20— 1: 1,336,471
84: 1,337,088
87: 1,336,672
21— 150: 1,336,832
1,336,871
1,336,876
209: 1,336,791
22— 79: 1,336,767
139: 1,336,459
209: 1,336,768
23— 1: 1,337,141
10: 1,336,974
13: 1,336,425
1,336,508
1,336,957
1,337,019
24: 1,336,709
1,336,759
1,336,952
24— 9: 1,336,744
49: 1,336,618
66: 1,336,834
68: 1,336,679
87: 1,337,073
88: 1,336,692
97: 1,336,880
123: 1,336,482
134: 1,337,159
157: 1,337,114
214: 1,337,117
1,337,118
215: 1,337,115
1,337,116
217: 1,337,119
241: 1,336,666
245: 1,337,131
25— 30: 1,336,805
41: 1,336,539
126: 1,336,712
127: 1,336,857
1,336,867
130: 1,337,074
153: 1,336,762
28— 6: 1,336,649
24: 1,337,155
29— 5: 1,336,660
69: 1,336,501
73: 1,336,443
1,337,147
84: 1,337,097
86.2: 1,336,938
89: 1,336,912
148: 1,336,576
1,336,689
1,336,800
157: 1,337,001
159: 1,336,493
29— 182: 1,336,449
30— 1: 1,336,662
3: 1,337,148
12: 1,336,923
1,336,969
1,337,166
17: 1,336,464
22: 1,337,174
32— 20: 1,336,746
33— 90: 1,337,107
147: 1,337,018
167: 1,337,165
194: 1,336,126
215: 1,336,694
34— 5: 1,336,422
17: 1,337,005
36— 6: 1,336,962
71: 1,336,979
37— 24: 1,336,595
1,336,658
29: 1,336,657
40— 2: 1,336,745
16: 1,336,723
30: 1,336,411
42: 1,336,907
70: 1,336,739
77: 1,336,772
78: 1,336,585
130: 1,336,517
1,336,706
42— 91: 1,337,104
43— 37: 1,336,987
59: R 14,840
69: 1,337,044
88: 1,337,149
125: 1,336,822
45— 13: 1,336,408
31: 1,336,818
53: 1,336,981
112: 1,337,092
122: 1,336,954
46— 4: 1,336,671
14: 1,336,756
35: 1,336,434
1,336,626
1,337,171
40: 1,336,898
41: 1,336,541
51: 1,336,879
59: 1,336,556
69: 1,336,910
47— 12: 1,336,580
48— 25: 1,336,573
102: 1,337,108
51— 1: 1,336,751
3: 1,336,685
4: 1,337,139
1,337,140
7: 1,336,333
11: 1,336,521
20: 1,336,698
52— 3: 1,336,463
1,336,661
53— 1: 1,337,010
3: 1,336,491
5: 1,336,565
1,337,043
1,337,122
9: 1,336,869
10: 1,336,734
55— 19: 1,336,642
60: 1,336,976
83: 1,336,676
1,336,687
128: 1,336,421
146: 1,336,861
56— 105: 1,336,578
226: 1,336,536
335: 1,336,648
57— 9: 1,337,101
60— 15: 1,336,668
16: 1,336,616
43: 1,337,176
89: 1,337,096
61— 45: 1,336,789
62— 116: 1,337,175
64— 8: 1,336,542
64— 17: 1,337,135
18: 1,337,136
22: 1,336,428
1,336,540
26: 1,336,413
27: 1,336,654
36: 1,336,812
38: 1,337,028
102: 1,336,985
65— 53: 1,336,776
66— 24: 1,337,009
67— 23: 1,336,635
68— 9: 1,336,415
1,336,427
10: 1,336,433
32: 1,336,883
69— 2: 1,337,069
13: 1,336,597
70— 9: 1,337,085
14: 1,336,505
1,337,137
26: 1,337,083
31: 1,336,617
72— 63: 1,336,683
96: 1,336,718
110: 1,336,547
73— 34: 1,336,511
151: 1,336,925
74— 1: 1,336,803
1,336,847
5: 1,337,081
1,337,111
7: 1,336,950
8: 1,336,498
13: 1,336,752
14: 1,336,703
1,336,863
17: 1,337,138
26: 1,336,581
1,336,747
36: 1,336,758
38: 1,336,546
46: 1,336,606
56: 1,336,715
1,336,716
1,336,729
58: 1,336,796
81: 1,336,856
99: 1,336,532
107: 1,336,462
108: 1,336,660
1,336,691
109: 1,336,670
75— 1: 1,337,003
18: 1,337,058
58: 1,336,420
76— 37: 1,336,959
82: 1,337,154
77— 28: 1,336,955
58: 1,336,466
1,337,015
78— 54: 1,337,128
81— 3.4: 1,337,158
13: 1,337,084
17: 1,336,839
19: 1,336,754
33: 1,336,755
38: 1,336,610
113: 1,336,710
119: 1,337,102
120: 1,336,794
145: 1,336,460
201: 1,336,589
82— 1: 1,337,079
33: 1,336,843
40: 1,336,548
83— 9: 1,337,033
13: 1,336,793
26: 1,336,530
1,337,134
30: 1,337,127
35: 1,336,848
60: 1,336,538
1,336,637
64: 1,336,673
67: 1,336,697
1,336,963
83— 67: 1,336,968
73: 1,336,586
84— 78: 1,336,409
124: 1,337,041
85— 46: 1,336,773
86— 21: 1,336,674
88— 16.8: 1,336,996
17: 1,336,479
18: 1,336,775
18.4: 1,336,441
1,336,639
19.3: R 14,837
89— 20: 1,337,004
40: 1,336,926
90— 12.5: 1,337,052
14: 1,336,731
33: 1,336,621
1,336,885
91— 12.5: 1,336,886
31: 1,336,528
68: 1,336,806
1,337,053
93— 2: 1,336,549
1,336,838
95— 73: 1,336,989
97— 11: 1,336,821
14: 1,336,550
1,336,926
28: 1,337,076
41: 1,336,623
45: 1,336,708
46: 1,336,727
98— 3: 1,336,590
22: 1,336,470
99— 11: 1,337,027
15: 1,336,720
50: 1,336,579
100— 240: 1,336,988
345: 1,336,841
378: 1,336,721
389: 1,336,487
422: 1,336,995
102— 3: 1,336,873
4: 1,337,063
29: 1,336,656
39: 1,336,701
1,336,828
103— 65: 1,336,920
76: 1,337,057
79: 1,337,180
104— 69: 1,336,456
101: 1,337,121
138: 1,336,732
249: 1,336,442
105— 62: 1,336,477
120: 1,336,555
208: 1,336,458
224: 1,336,436
262: 1,336,410
369: 1,336,569
371: 1,336,682
376: 1,336,892
391: 1,336,636
410: 1,336,864
106— 11: 1,336,740
23: 1,336,858
107— 9: 1,337,152
59: 1,336,782
108— 5.4: 1,336,993
111— 1: 1,336,902
112— 63: 1,336,824
125: 1,336,825
252: 1,336,808
113— 51: 1,336,965
112: 1,336,931
1,337,023
114— 15: 1,336,557
16: 1,337,110
45: 1,336,941
51: 1,337,035
84: 1,336,866
118: 1,337,060
123: 1,336,688
191: 1,336,702
115— 37: 1,336,770
116— 43: 1,336,609
46: 1,336,489
116— 46: 1,336,588
52: 1,336,644
1,336,713
118: 1,337,029
1,337,030
142: 1,337,162
144: 1,336,594
119— 50: 1,336,802
73: 1,337,075
148: 1,336,975
46: 1,336,572
107: 1,336,432
1,336,964
120— 18: 1,336,819
46: 1,336,572
107: 1,336,432
121— 9: 1,336,930
17: 1,336,921
55: 1,336,997
59: 1,336,846
136: 1,337,024
150: 1,336,711
187: 1,336,451
122— 250: 1,336,714
123— 25: 1,336,592
52: 1,336,704
74: 1,337,077
90: 1,336,447
169: 1,336,914
1,337,046
170: R 14,838
171: 1,336,457
174: 1,336,613
125 2: 1,336,942
13: 1,336,563
40: 1,336,630
126— 14: 1,336,599
36: 1,337,112
39: 1,336,552
95: 1,336,753
96: 1,336,412
99: 1,336,675
126: 1,336,700
165: 1,336,766
284: 1,337,146
128— 74: 1,337,145
88: 1,336,695
100: 1,336,513
140: 1,337,026
216: 1,336,730
129— 1: 1,336,438
7: 1,336,998
16.8: 1,336,584
23: 1,336,495
41: 1,337,124
130— 15: 1,336,958
131— 38: 1,336,724
132— 22: 1,337,039
135— 47: 1,336,638
54: 1,336,844
137— 68: 1,336,769
72: 1,336,984
1,336,905
93: 1,337,177
103: 1,337,064
111: 1,336,917
122: 1,337,045
139— 9: 1,336,516
18: 1,336,545
1,336,741
141— 7: 1,336,568
143— 151: 1,337,016
168: 1,336,799
144— 50: 1,337,109
144: 1,336,659
198: 1,337,143
146— 5: 1,336,852
7: 1,336,991
12: 1,336,726
14: 1,336,526
150— 54: 1,336,757
151— 5: 1,337,164
151— 59: 1,336,733
152— 1: 1,336,790
7: 1,336,452
8: 1,336,868
17: 1,336,663
21: 1,336,531
1,336,934
32: 1,337,068
38: 1,336,817
48: 1,336,543
14: 1,336,624
13: 1,336,641
25: 1,336,525
43: 1,336,571
77: 1,336,509
79: 1,337,103
95: 1,337,059
157: 1,336,510
23: 1,336,936
6: 1,336,916
1: 1,336,980
36: 1,336,717
46: 1,337,038
53: 1,336,798
7: 1,336,937
8: 1,336,476
1,337,037
15: 1,337,014
1: 1,336,699
86: 1,337,000
87: 1,336,622
94: 1,336,529
10: 1,336,738
19: 1,336,881
32: 1,337,130
163: 1,337,133
118: 1,336,488
123: 1,337,071
1,337,100
229: 1,336,416
312: 1,336,520
314: 1,336,764
322: 1,336,544
1,336,934
172— 179: 1,336,562
274: 1,336,566
276: 1,336,561
288: 1,337,040
173— 259: 1,336,850
278: 1,336,475
1,336,502
1,336,932
1,336,940
328: 1,336,587
332: 1,336,437
1,336,801
338: 1,336,431
340: 1,336,736
344: 1,336,608
358: 1,336,607
175— 183: 1,336,424
1,337,160
294: 1,337,129
314: 1,336,564
356: 1,336,894
361: 1,337,080
367: 1,336,928
177— 7: 1,336,519
339: 1,336,795
342: 1,336,889
178— 63: 1,336,414
179— 43: 1,336,615
104: 1,336,497
146: 1,336,559
157: 1,336,929
180— 6: 1,336,448
9: 1,336,890
1,336,961
16: 1,336,653
17: 1,336,643
21: 1,336,823
77: 1,337,007
1,337,008
183— 55: 1,336,600
73: 1,337,020
105: 1,336,870
184— 11: 1,337,013
50: 1,337,179

185— 41: 1,337,113
186— 1: 1,337,050
34: 1,336,551
187— 17: 1,336,949
49: 1,336,748
73: 1,336,664
188— 12: 1,336,909
1,336,956
53: 1,336,435
78: 1,336,908
199: 1,336,522
250: 1,336,882
189— 3: 1,336,945
35: 1,336,667
190— 16: 1,336,899
191— 41: 1,336,503
1,336,504
75: 1,336,966
192— 18: 1,336,749
193— 24: 1,337,081
48: 1,336,788
58: 1,336,570
194— 63: 1,336,514
78: 1,336,960
79: 1,336,478
80: 1,336,743
196— 25: 1,336,983
1,337,144
26: 1,336,450
197— 6.4: 1,337,006
127: 1,336,453
1,336,454
1,336,836
138: 1,336,797
200— 9: 1,336,560
1,336,574
1,336,596
14: 1,336,582
17: 1,336,583
30: 1,336,933
33: 1,337,161
38: 1,337,022
48: 1,337,105

200— 54: 1,336,625
57: 1,336,652
70: 1,337,011
94: 1,337,072
122: 1,336,418
140: 1,336,518
159: 1,336,419
166: 1,336,455
204— 9: 1,337,106
15: 1,336,765
31: 1,336,939
32: 1,337,062
53: 1,336,506
64: 1,336,807
1,336,820
1,337,156
206— 16: 1,337,178
208— 15: 1,337,025
33: 1,336,935
210— 5: 1,336,553
1,337,094
1,337,095
6: 1,337,066
7: 1,337,061
9: 1,336,591
13: 1,337,170
14: 1,336,444
19: 1,336,512
30: 1,336,722
35: 1,336,779
211— 8: 1,336,469
13: 1,336,429
1,336,849
20: 1,336,831
21: 1,337,049
24: 1,336,903
27: 1,336,490
1,336,971
37: 1,336,922
212— 94: 1,336,877
213— 42: 1,337,090
64: 1,337,002
1,337,003

213— 67: 1,336,474
1,336,735
214— 17: 1,336,862
18: 1,336,681
31: 1,336,494
44: 1,337,047
130: 1,336,567
140: 1,337,082
215— 80: 1,336,507
1,337,034
218— 8: 1,336,786
1,336,787
11: 1,336,777
12: 1,336,771
1,336,778
1,336,854
1,336,855
219— 8: 1,336,603
37: 1,336,559
38: 1,336,728
1,337,120
50: 1,336,918
1,336,919
220— 1: 1,336,439
7: 1,336,895
1,337,167
9: 1,336,813
38: 1,336,972
40: 1,336,811
69: 1,336,737
71: 1,336,896
221— 47: 1,336,853
74: 1,336,983
225— 25: 1,336,970
226— 20: 1,336,719
55: 1,336,612
229— 10: 1,336,874
27: 1,337,091
44: 1,337,087
78: 1,336,629
81: 1,336,646
230— 27: 1,337,132
30: 1,336,845

232— 40: 1,336,417
1,337,089
42: 1,336,826
234— 5.5: 1,336,611
17: 1,337,172
21: 1,336,810
235— 3: 1,336,693
26: 1,336,628
60: 1,336,840
1,336,904
78: 1,336,990
86: 1,336,686
89: 1,336,900
236— 78: 1,336,515
237— 16: 1,336,816
48: 1,336,901
78: 1,336,860
238— 198: 1,336,915
262: 1,336,483
240— 2: 1,336,500
41: 1,336,407
1,336,602
1,336,967
1,337,086
48.4: 1,336,837
1,336,951
102: 1,336,761
115: 1,336,835
242— 46.6: 1,336,467
71: 1,336,640
72: 1,337,017
91: 1,337,048
1,337,142
126: 1,336,554
244— 2: 1,336,633
1,336,634
3: 1,336,601
1,337,032
14: 1,336,651
1,337,151
15: 1,336,669
1,336,946
21: 1,336,982

244— 25: 1,336,947
29: 1,336,473
1,336,632
1,336,678
1,336,977
31: 1,337,157
246— 71: 1,336,465
1,336,484
83: 1,336,486
151: 1,337,054
187: 1,336,986
248: 1,337,021
252: 1,336,485
298: 1,336,913
487: 1,336,792
247— 13: 1,337,163
248— 3: 1,336,593
12: 1,336,785
20: 1,336,809
33: 1,336,558
41: 1,336,973
249— 1: 1,336,705
250— 36: 1,336,833
251— 5: 1,336,891
7: 1,336,650
253— 1: 1,336,827
39: 1,337,098
254— 10: R. 14,839
85: 1,337,065
86: 1,336,620
131: 1,337,125
255— 61: 1,336,537
75: 1,336,884
256— 13: 1,336,680
257— 130: 1,336,999
132: 1,336,978
178: 1,336,742
243: 1,336,655
258— 13: 1,336,851
259— 85: 1,336,878
134: 1,336,781
1,336,830
261— 41: 1,337,051

262— 25: 1,336,440
28: 1,336,927
263— 22: 1,336,814
36: 1,336,499
267— 15: 1,336,468
27: 1,336,481
28: 1,336,534
29: 1,336,446
54: 1,336,829
270— 37: 1,336,445
271— 85: 1,336,598
274— 2: 1,336,492
1,336,842
280— 13: 1,337,153
31: 1,336,725
33.2: 1,336,665
117: 1,336,645
163: 1,337,078
176: 1,336,948
283— 1: 1,336,902
1,337,168
9: 1,336,647
47: 1,337,123
58: 1,336,804
285— 22: 1,336,924
108: 1,336,423
287— 27: 1,336,634
34: 1,336,707
290— 41: 1,336,619
292— 17: 1,336,897
63: 1,336,430
128: 1,336,496
238: 1,336,606
247: 1,336,535
322: 1,336,888
294— 43: 1,336,461
90: 1,336,684
110: 1,336,815
295— 135: 1,336,783
296— 23: 1,336,627
99: 1,336,953

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Cecil H., Chester, Va., assignor of one-half to J. L. Fountain, Jr., Raleigh, N. C. Incubator. No. 1,337,183; Apr. 20; v. 273; p. 415.

Abbott, William G., Jr., Wilton, N. H. Gas-lubricated bearing. No. 1,337,742; Apr. 20; v. 273; p. 521.

Abizaid, Alkoury A., Washington, D. C. Buckle. No. 1,337,181; Apr. 20; v. 273; p. 415.

Acme Cement Plaster Company. (See Pipe, Edward H., assignor.)

Adams, Lytle S., Venice, Calif. Cable-laying machine. No. 1,337,184; Apr. 20; v. 273; p. 415.

Adjuria Incorporated. (See Brewer, Charles A., assignor.)

Ahlswede, Charles, Manitowoc, Wis. Vehicle signaling device. No. 1,337,185; Apr. 20; v. 273; p. 415.

Aktiebolaget Nitrogenium. (See Carlson, Oscar F. S., assignor.)

Albert, Walter P. (See Williams, S. B., Jr., and Albert.)

Albertson, Nels P., Frankford, S. D. Flame-elevating means for shock-loaders. No. 1,337,874; Apr. 20; v. 273; p. 546.

Alexander, Walter, New York, N. Y. Coating process. No. 1,337,380; Apr. 20; v. 273; p. 452.

Alexander, Walter, New York, N. Y. Adhesive. No. 1,337,381; Apr. 20; v. 273; p. 452.

Alexander, Walter, New York, N. Y. Adhesive composition and making same. No. 1,337,382; Apr. 20; v. 273; p. 452.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,875; Apr. 20; v. 273; p. 546.

Alexovits, Gregor, Guttenberg, N. J. Device for locating sunken ships. No. 1,337,383; Apr. 20; v. 273; p. 453.

Alfisi, Giuseppe, Toronto, Ontario, Canada. Egg-boiler. No. 1,337,876; Apr. 20; v. 273; p. 546.

Allan, John W., Minneapolis, Minn. Combination boiler and furnace. No. 1,337,632; Apr. 20; v. 273; p. 499.

Allen, Bernard J., Stoke-upon-Trent, England. Molding semisolid substances. No. 1,337,811; Apr. 20; v. 273; p. 533.

Allen, Earl E., Council Bluffs, Iowa. Door-opener. No. 1,337,384; Apr. 20; v. 273; p. 453.

Allen, James A. assignor of one-half to B. F. Briggs, Providence, R. I. Printing-press. No. 1,337,186; Apr. 20; v. 273; p. 416.

Allen, Rodney D., assignor to B. L. Johnson, Philadelphia, Pa. Record-holding cabinet for talking-machines. No. 1,337,812; Apr. 20; v. 273; p. 534.

Allen, Russell G., Toledo, Ohio. Receptacle-stopper. No. 1,337,182; Apr. 20; v. 273; p. 415.

Alsberg, Julius, Chicago, Ill. Starting device for burners. No. 1,337,498; Apr. 20; v. 273; p. 474.

Alsten, Alfred O. (See Johnson, A. L., and Alsten.)

Alsten, John A., *et al.* (See Johnson, A. L., and Alsten, assignors.)

Altenburg, Eric P., Columbiana, Ohio. Pneumatic tire. No. 1,337,813; Apr. 20; v. 273; p. 534.

Altvater, Herbert G., Denver, Colo. Variable-speed-transmission mechanism. No. 1,337,578; Apr. 20; v. 273; p. 489.

Aman, Jacob, Talmadge township, Ottawa county, Mich. Bean or weed cutter. No. 1,337,499; Apr. 20; v. 273; p. 475.

American Bosch Magneto Corporation. (See Krauss, Adolf, assignor.)

American Bosch Magneto Corporation. (See Norman, Frederick D., assignor.)

American Bosch Magneto Corporation. (See Schäfer, Max, assignor.)

American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang E., assignor.)

American Button & Fastener Company. (See Elliott, William E., assignor.)

American Can Company. (See Taylor, William E., assignor.)

American Can Company. (See Wood, Frederick P., assignor.)

American Fabrics Company, The. (See Tuck, Eugen, assignor.)

American Hardware Corporation. (See Svenson, Charles W., assignor.)

American Hoist & Derrick Co. (See Brink, Harry L., assignor.)

American Metal Shoe Company. (See Trolle, Louis, assignor.)

American Well Works, The. (See Kerr, Charles V., assignor.)

Amory, William N., New York, N. Y. Shock-absorber for vehicles. No. 1,337,579; Apr. 20; v. 273; p. 490.

Amphion Piano Player Company, The. (See Doman, Lewis B., assignor.)

Andresen, Hilmar, Chicago, Ill. Bridge. No. 1,337,187; Apr. 20; v. 273; p. 416.

Angier, Edward H., Framingham, Mass. Barrel-cover. No. 1,337,188; Apr. 20; v. 273; p. 416.

Annicq, Joseph, Renaix, Belgium. Dyeing, washing, and similarly treating yarn in the form of hanks, skeins, or the like. No. 1,337,877; Apr. 20; v. 273; p. 547.

Antonelli, Domenico, Philadelphia, Pa. Pedal-operating mechanism. No. 1,337,685; Apr. 20; v. 273; p. 510.

Apfel, Philip F., Seattle, Wash. Electrical heating element. No. 1,337,633; Apr. 20; v. 273; p. 500.

Arduin Brothers. (See Arduin, Paul, assignor.)

Arduin, Paul, assignor to Arduin Brothers, Mount Vernon, N. Y. Machine for making pastry cones. No. 1,337,500; Apr. 20; v. 273; p. 475.

Arluskes, Veronica, Bridgeport, Conn. Compressor. No. 1,337,501; Apr. 20; v. 273; p. 475.

Aspromet Company. (See McAllister, Albert, assignor.)

Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Speech-reproducing device. No. 1,337,304; Apr. 20; v. 273; p. 438.

Austin, Ellsworth W., Plymouth, Conn. Vaporizing-stopper. No. 1,337,189. Apr. 20; v. 273; p. 416.

Automatic Electric Company. (See Martin, Talbot G., assignor.) (Reissue.)

Babcock, Harold C., and J. H. McCreary, assignors to The Thornburgh Manufacturing Company, Bowling Green, Ohio. Tandem soil pulverizer and packer. No. 1,337,425; Apr. 20; v. 273; p. 460.

Babecki, Kostantyn, Winfield, N. Y. Torpedo-guard. No. 1,337,502; Apr. 20; v. 273; p. 475.

Badger Tool Company. (See Gardiner, Edward B., assignor.)

Baender, Charles L., Oakland, Calif. Snubber. No. 1,337,878; Apr. 20; v. 273; p. 547.

Baer, Abe, *et al.* (See Bragg, Charles T., assignor.)

Baer, Max, *et al.* (See Bragg, Charles T., assignor.)

Bailey, Theodorus S., Berkeley, Calif. Vessel-filling device. No. 1,337,743; Apr. 20; v. 273; p. 521.

Baird, Alfred M., *et al.* (See Baird, Clifford J., assignor.)

Baird, Clifford J., assignor of one-third to F. G. Hall and one-third to A. M. Baird, Portland, Oreg. Broom. No. 1,337,503; Apr. 20; v. 273; p. 475.

Baker, Thomas Y. (See Hughes, H. A., and Baker.)

Baldwin, Albert C. (See Thomson, William E., assignor.)

Baldwin, Charles F. (See Williams, S. B., Jr., and Baldwin.)

Baldwin, Florence D., administratrix. (See Williams, S. B., Jr., and Baldwin.)

Ball, Clarence R., Washington, D. C. Bed. No. 1,337,580; Apr. 20; v. 273; p. 490.

Ballerstedt, William D., Los Angeles, Calif. Sprinkler system for irrigating lawns, gardens, fields, and the like. No. 1,337,744; Apr. 20; v. 273; p. 521.

Baltimore Process Company, The. (See Straus, Alexander L., assignor.)

Barbre, Clarence. (See Cannon, H., Barbre, and Leslie.)

Barbre, Clarence. (See Leslie, E. H., and Barbre.)

Bardol, Frank V. E., Buffalo, N. Y. Asphalt-cutter. No. 1,337,426; Apr. 20; v. 273; p. 461.

Barnes, Samuel C., Williamsport, Md., assignor to Frick Company, Waynesboro, Pa. Oil-pump. No. 1,337,581; Apr. 20; v. 273; p. 490.

Barry, David R., Beaumont, Tex. Book-holding device. No. 1,337,582; Apr. 20; v. 273; p. 490.

Bassett, Robert N., Company. (See Russ, John C., assignor.)

Bassett, Rollo S., Champaign, Ill. Portable building. No. 1,337,745; Apr. 20; v. 273; p. 522.

Bassett, Rollo, S., Champaign, Ill. Chimney. No. 1,337,746; Apr. 20; v. 273; p. 522.

Bastable, Edward H., South Braintree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,337,190; Apr. 20; v. 273; p. 416.

Bátorfy, Joseph, New York, N. Y. Marine vessel. No. 1,337,747; Apr. 20; v. 273; p. 522.

Bausch & Lomb Optical Company. (See Poser, Max, assignor.)

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Reducing and refining apparatus. No. 1,337,383; Apr. 20; v. 273; p. 490.

Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Feeding apparatus. No. 1,337,384; Apr. 20; v. 273; p. 491.

Beach, John, assignor of one-half to P. F. Golden, Springfield, Ohio. Pipe and hose coupling. No. 1,337,427; Apr. 20; v. 273; p. 461.

Beall Brothers. (See Wightman, Charles K., assignor.)

Bean, Andrew J., Ottsville, Pa. Pad. No. 1,337,879; Apr. 20; v. 273; p. 547.

Bean, Orester U., New York, N. Y. Producing gas. No. 1,337,537; Apr. 20; v. 273; p. 482.

Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Molding-machine. No. 1,337,585; Apr. 20; v. 273; p. 491.

Beaufrere, Charles F., Central Islip, N. Y. Skimming-spoon. No. 1,337,814; Apr. 20; v. 273; p. 534.

Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Tar-extractor apparatus and method. No. 1,337,984; Apr. 20; v. 273; p. 567.

Beckwith, George C. (See McGeouch, W. P., and Beckwith.)

Bedinger, Singleton B., Terrell, Tex. Price-tag. No. 1,337,586; Apr. 20; v. 273; p. 491.

Behee, Joseph H., Leavenworth, Kans. Scroll-cutting machine. No. 1,337,428; Apr. 20; v. 273; p. 461.

Belden, Eduard H., assignor to Industrial Research Corporation, Toledo, Ohio. Equalizing brake mechanism. No. 1,337,815; Apr. 20; v. 273; p. 534.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,337,748; Apr. 20; v. 273; p. 522.

Benard, Henri L. M. J., Paris, France. Flash-light for aerial navigation. No. 1,337,880; Apr. 20; v. 273; p. 547.

Bennett, Ellwood F., Sayre, Pa. Rail-bender. No. 1,337,581; Apr. 20; v. 273; p. 491.

Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Melting and melting and reducing metals. No. 1,337,305; Apr. 20; v. 273; p. 438.

Benson, Andrew, Chicago, Ill., assignor, by mesne assignments, to Janesville Products Company, Janesville, Wis. Driving mechanism. No. 1,337,634; Apr. 20; v. 273; p. 500.

Benson, Bradley L., *et al.* (See Klenke, August C., assignor.)

Bergendahl, Lewis J., Vallejo, Calif. Hair-cutter. No. 1,337,429; Apr. 20; v. 273; p. 461.

Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Forging-machine. No. 1,337,430; Apr. 20; v. 273; p. 461.

Bernert, George, assignor to Bernert Manufacturing Company, Milwaukee, Wis. Conveyer. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.

Bernert Manufacturing Company. (See Bernert, George, assignor.) (Reissue.)

Berry, Louis P., Jr., Marion, Ark. Apparatus for sewage disposal. No. 1,337,431; Apr. 20; v. 273; p. 461.

Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,337,973; Apr. 20; v. 273; p. 585.

Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)

Billon, Frédéric. (See Schneider, J., and Billon.)

Bird, Charles E., Minneapolis, Minn. Scale-lever. No. 1,337,635; Apr. 20; v. 273; p. 500.

Bituminized Road Company. (See Popkess, Michael A., assignor.)

Blackwell, Willis B. and W. J., New York, N. Y. Display-support. No. 1,337,816; Apr. 20; v. 273; p. 534.

Blackwell, Willis J. (See Blackwell, Willis B. and W. J.)

Bloemker, Henry W., assignor to J. Hancock, Philadelphia, Pa. Wire-fabric machine. No. 1,337,504; Apr. 20; v. 273; p. 476.

Blount, Almer L. (See Gore, Jacob L., assignor.)

Blumenberg, Henry, Los Angeles, Calif. Destroying scale and the like on citrus trees. No. 1,337,538; Apr. 20; v. 273; p. 482.

Blystone Manufacturing Company. (See Pees, Walter J., assignor.)

Boardman, Harriet A., *et al.*, administratrices. (See Boardman, Solomon.)

Boardman, Solomon, deceased, Binghamton; H. A. Boardman and M. P. Ives, administratrices, Binghamton, N. Y., assignors to M. A. P. Ives. Electric motor. No. 1,337,686; Apr. 20; v. 273; p. 510.

Boas, Oliver E., Fort Smith, Ark. Spring-motor. No. 1,337,385; Apr. 20; v. 273; p. 453.

Bodé, Robert R., Honolulu, Hawaii. Hinge for artificial legs. No. 1,337,817; Apr. 20; v. 273; p. 535.

Bogda, Frank H., Horicon, Wis. Stock-watering bowl. No. 1,337,636; Apr. 20; v. 273; p. 500.

Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing or decreasing objectionable odors from treated oils. No. 1,337,339; Apr. 20; v. 273; p. 445.

Boryk, John, Ansonia, Conn. Safe-lock. No. 1,337,386; Apr. 20; v. 273; p. 453.

Boston Woven Hose & Rubber Co. (See McGeouch, W. P., and Beckwith, assignors.)

Bott, George R., New York, N. Y., assignor to The Norma Company of America. Bearing and mounting therefor. No. 1,337,881; Apr. 20; v. 273; p. 547.

Bott, George R., New York, N. Y., assignor to The Norma Company of America. Bearing and mounting therefor. No. 1,337,882; Apr. 20; v. 273; p. 548.

Bouillon, Constant, Torrington, Conn., assignor to Hendey Machine Company. Tool-cabinet. No. 1,337,387; Apr. 20; v. 273; p. 453.

Bourdeau, Leon N., Rock Island, Ill., assignor of one-half to J. G. Sorenson, Davenport, Iowa. Grease-cup. No. 1,337,432; Apr. 20; v. 273; p. 462.

Bowman, Emil F., Marshalltown, Iowa. Drinking-fountain. No. 1,337,637; Apr. 20; v. 273; p. 500.

Boyd, Uintah R., San Francisco, Calif. Lady's undergarment. No. 1337,883; Apr. 20; v. 273; p. 548.

Bradbury, Clifford C., Chicago, Ill. Electromagnetic fuel-pump and circuit therefor. No. 1,337,388; Apr. 20; v. 273; p. 454.

Bradley, Charles F., New York, N. Y. Automatic lock device for doors. No. 1,337,638; Apr. 20; v. 273; p. 501.

Bradley, John H., Philadelphia, Pa. Metallic bed. No. 1,337,340; Apr. 20; v. 273; p. 445.

Bradshaw, Reginald H., London, England. Rimless spectacles and eyeglasses. No. 1,337,818; Apr. 20; v. 273; p. 535.

Bragg, Charles T., Detroit, Mich., assignor to M. Baer and A. Baer, New York, N. Y. Preparing varnish. No. 1,337,749; Apr. 20; v. 273; p. 522.

Braun, William F., Brooklyn, N. Y. Brush. No. 1,337,819; Apr. 20; v. 273; p. 535.

Brewer, Charles A., Noroton Heights, Conn., assignor to Adjuria Incorporated. First-aid kit. No. 1,337,433; Apr. 20; v. 273; p. 462.

Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)

Bridges, Bertha A., Leesville, S. C. Clothespin. No. 1,337,434; Apr. 20; v. 273; p. 462.

Briggs, Benjamin F. (See Allen, James A., assignor.)

Brink, Harry L., assignor to American Hoist & Derrick Co., St. Paul, Minn. Sheave-block. No. 1,337,341; Apr. 20; v. 273; p. 445.

Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Electrical condenser. No. 1,337,505; Apr. 20; v. 273; p. 476.

Broderson, Henry J., and S. W. Parr, Urbana, Ill. Treating broom-corn. No. 1,337,306; Apr. 20; v. 278; p. 439.

Brooks, David C., Van, W. Va. Wrapping-paper holder and cutter. No. 1,337,588; Apr. 20; v. 273; p. 491.

Brown, Robert E., Olean, N. Y. Safety-razor. No. 1,337,435; Apr. 20; v. 273; p. 462.

Bubb, Charles L., Williamsport, Pa. Automatic oiler. No. 1,337,687; Apr. 20; v. 273; p. 510.

Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Depositing hydrate of alumina and similar gelatinous precipitates from their salts. No. 1,337,191; Apr. 20; v. 273; p. 417.

Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of metal hydroxids. No. 1,337,192; Apr. 20; v. 273; p. 417.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Bukacek, Joseph M., Clarkson, Nebr. Machine-oiler. No. 1,337,688; Apr. 20; v. 273; p. 510.

Bull, Fredrik R., Christiania, Norway. Saving-clock. No. 1,337,539; Apr. 20; v. 273; p. 482.

Burbank, Joseph W., Albany, N. Y. Spraying attachment. No. 1,337,589; Apr. 20; v. 273; p. 492.

Burger, Joseph, Brooklyn, N. Y. Heel. No. 1,337,639; Apr. 20; v. 273; p. 501.

Burlingame, Albert C., Minneapolis, Minn. Fruit-jar and bottle lifter. No. 1,337,540; Apr. 20; v. 273; p. 483.

Burnwatt, William W., and G. W. Hauschild, Los Angeles, Calif. Garden-hose holder. No. 1,337,541; Apr. 20; v. 273; p. 483.

Butcher, James H., Louisville, Ky. Amusement apparatus. No. 1,337,820; Apr. 20; v. 273; p. 535.

Buth, Archie C., Alleman, Iowa. Self-feeder. No. 1,337,436; Apr. 20; v. 273; p. 462.

Butler, James L. (See Converse, F. B., and Butler.)

Cain, John J., Bayonne, N. J. Header for tubular boilers. No. 1,337,590; Apr. 20; v. 273; p. 492.

Call, Henry L., St. Louis, Mo. Vehicle. No. 1,337,437; Apr. 20; v. 273; p. 463.

Calvelage, Stephen G., Jamestown, N. D. Storm and screen window hanger. No. 1,337,689; Apr. 20; v. 273; p. 511.

Calvert, John A., Carberry, Manitoba, Canada. Binder. No. 1,337,193; Apr. 20; v. 273; p. 417.

Cameron, William, assignor to Torris Wold & Company, Chicago, Ill. Automatic die-press. No. 1,337,307; Apr. 20; v. 273; p. 439.

Canda, Ferdinand E., New York, N. Y. Rolling balls and other objects of rotation. No. 1,337,640; Apr. 20; v. 273; p. 501.

Canda, Ferdinand E., New York, N. Y. Ball-mill. No. 1,337,641; Apr. 20; v. 273; p. 501.

Candee, L., & Company. (See Stuart, Charles J., assignor.)

Cannon, Harley, C. Barbre, and E. H. Leslie, assignors to General Petroleum Corporation, Los Angeles, Calif. Producing an ore-flotation agent. No. 1,337,542; Apr. 20; v. 273; p. 483.

Cannon, Patrick, New York, N. Y. Rim-holding stand. No. 1,337,821; Apr. 20; v. 273; p. 535.

Capewell, George J., Hartford, Conn. Horseshoe. No. 1,337,194; Apr. 20; v. 273; p. 417.

Carlson, Carl K., Everett, Wash. Box or case truck. No. 1,337,438; Apr. 20; v. 273; p. 463.

Carlson, Oscar F. S., Ljungaverk, assignor to Aktiebolaget Nitrogenium, Stockholm, Sweden. Manufacturing nitrogen compounds from carbids. No. 1,337,750; Apr. 20; v. 273; p. 523.

Carolina Motor Company. (See Sills, Frederick R., assignor.)

Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Pressure-generating system. No. 1,337,751; Apr. 20; v. 273; p. 523.

Carrey Rotary Engine Company. (See Carrey, John O., assignor.)

Carroll, Louis W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,752; Apr. 20; v. 273; p. 523.

Carter, Lee E., St. Maries, Idaho. Dry-kiln truck for emptying and refilling dry-kilns. No. 1,337,439; Apr. 20; v. 273; p. 463.

Casey, Ralph R., Seattle, Wash. Food curing and smoking apparatus. No. 1,337,974; Apr. 20; v. 273; p. 566.

Central Specialty Company. (See Lonskey, John H., assignor.)

Ceska, Marie, Bowdle, S. D. Darner. No. 1,337,884; Apr. 20; v. 273; p. 548.

Chemical Foundation, The. (See Buchner, Max, assignor.)

Chemical Foundation, The. (See Eilender, Walter L. E., assignor.)

Chemical Foundation, The. (See Moest, M., and Schirm, assignors.)

Chemical Foundation, The. (See Podszus, Emil, assignor.)

Chemical Foundation, The. (See Steinschneider, Leo., assignor.)

Cheney, George M., and L. C. Harwood, assignors to Litchfield Shuttle Company, Southbridge, Mass. Thread-eye for shuttles. No. 1,337,389; Apr. 20; v. 273; p. 454.

Chew, Ruth E., Brooklyn, N. Y. Waterproof hat-protector. No. 1,337,506; Apr. 20; v. 273; p. 476.

Chicago Railway Signal and Supply Company. (See Vogel, Eugene W., assignor.)

Chromaster, Charles O., Milwaukee, Wis. Sanitary container. No. 1,337,195; Apr. 20; v. 273; p. 417.

Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Metallic arc welding. No. 1,337,543; Apr. 20; v. 273; p. 483.

City Machine and Tool Works. (See Nickol, F. C., and Knowles, assignors.)

Clancy, John R. (See Williams, Mowry S., assignor.)

Clappison, John H., Detroit, Mich. Dispensing device for nut-meats. No. 1,337,440; Apr. 20; v. 273; p. 463.

Clark, Charles H., New York, N. Y. Shaft-coupling. No. 1,337,642; Apr. 20; v. 273; p. 501.

Clark, Charles T., Bay City, Mich., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Wood distillation. No. 1,337,342; Apr. 20; v. 273; p. 445.

Clark, Ernest G., De Kalb, Ill., assignor to The Q R S Music Company, Chicago, Ill. Hand stamping device. No. 1,337,591; Apr. 20; v. 273; p. 492.

Clarke, Charles F., Madison, Wis. Pen attachment. No. 1,337,196; Apr. 20; v. 273; p. 417.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,197; Apr. 20; v. 273; p. 417.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,337,198; Apr. 20; v. 273; p. 418.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Supervisory system. No. 1,337,753; Apr. 20; v. 273; p. 523.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,754; Apr. 20; v. 273; p. 523.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,755; Apr. 20; v. 273; p. 565.

Clay, Wallace L., U. S. Army, and A. H. Hallowell, Frankford, Pa. Spot-light bullet. No. 1,337,343; Apr. 20; v. 273; p. 446.

Clement, Louis E., Rock Island, Quebec, Canada. Cash-register. No. 1,337,441; Apr. 20; v. 273; p. 463.

Clenny, James E., New York, N. Y., and G. S. Wright, La Grange, assignor to Sefton Manufacturing Corporation, Chicago, Ill. Wrapper for packing electric-light bulbs. No. 1,337,592; Apr. 20; v. 273; p. 492.

Cleveland Tractor Company, The. (See Morgan, Mathew B., assignor.)

Coberly, William B. (See Vail, N. R., and Coberly.)

Cochran, Clyde E. (See Towson, M. S., and Cochran.)

Coleman, Eugene, Oakland, Calif. Valve-testing device. No. 1,337,390; Apr. 20; v. 273; p. 454.

Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray transformer. No. 1,337,885; Apr. 20; v. 273; p. 548.

Collis, Fred L., Iowa Falls, Iowa. Sweeper. No. 1,337,199; Apr. 20; v. 273; p. 418.

Converse, Francis B., and J. L. Butler, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Making adhesive-cord strips and winding mechanism therefor. No. 1,337,690; Apr. 20; v. 273; p. 511.

Cooke, Arthur B., assignor to Staso Laminated Slate Company, Chicago, Ill. Method and apparatus for treating roofing-grit. No. 1,337,822; Apr. 20; v. 273; p. 536.

Cooper, Arthur L., Los Angeles, Calif. Automatic draw-bar coupling for vehicles. No. 1,337,391; Apr. 20; v. 273; p. 454.

Coover, Harry S., Philadelphia, Pa. Game apparatus. No. 1,337,691; Apr. 20; v. 273; p. 511.

Cornell, Arthur M., Chicago, Ill. Guard-rail. No. 1,337,544; Apr. 20; v. 273; p. 483.

Corning Glass Works. (See Said, Jesse M., assignor.)

Corning, Henry W., Cleveland, Ohio. Locking mechanism. No. 1,337,545; Apr. 20; v. 273; p. 483.

Cottard, Jean B., Paris, France. Condensing apparatus. No. 1,337,200; Apr. 20; v. 273; p. 418.

Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)

Coulson, William J., Houston, Tex. Plunger for deep-well pumps. No. 1,337,593; Apr. 20; v. 273; p. 492.

Cowmatic Corporation. (See Lewis, John M. B., assignor.)

Crane, Melville W., Moline, Ill. Combination geometrical instrument. No. 1,337,823; Apr. 20; v. 273; p. 536.

Crane, Raymond E. (See Lawrence, E. H., and Crane.)

Crawford, Walter G., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,337,692; Apr. 20; v. 273; p. 511.

Crinnion, John, *et al.* (See Wertz, T., and Springmeyer, assignors.)

Crist, William E., Baltimore, Md. Lubricator for journal-boxes. No. 1,337,201; Apr. 20; v. 273; p. 418.

Crist, William E., Baltimore, Md. Lubricator for journal-boxes. No. 1,337,202; Apr. 20; v. 273; p. 418.

Crompton & Knowles Loom Works. (See Jenckes, Lawrence B., assignor.)

Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)

Crompton & Knowles Loom Works. (See Wright, Charles S., assignor.)

Crosbie, Robert G., Hawthorn, Victoria, Australia. Support for curtain-poles and the like. No. 1,337,594; Apr. 20; v. 273; p. 492.

Cummings, Rezin H., Topeka, Kans. Cistern-filter. No. 1,337,595; Apr. 20; v. 273; p. 493.

Curran, Edward T., Detroit, Mich. Burner for gaseous fuels. No. 1,337,824; Apr. 20; v. 273; p. 536.

Curtin, David F., Chicago, Ill. Dispenser for paper-cup blanks. No. 1,337,392; Apr. 20; v. 273; p. 454.

Czyzyk, Andrew, Grand Rapids, Mich. Furniture-caster. No. 1,337,344; Apr. 20; v. 273; p. 446.

Dann Products Company, The. (See Dann, Ernest G., assignor.)

Dann, Ernest G., Chicago, Ill., assignor to The Dann Products Company. Bearing. No. 1,337,203; Apr. 20; v. 273; p. 419.

Darlington, Philip J., Hartford, Conn. Apparatus for straining or filtering liquids. No. 1,337,756; Apr. 20; v. 273; p. 524.

Davis, Joseph K., assignor to Scovill Manufacturing Company, Waterbury, Conn. Air-distributer for lamp-burners. No. 1,337,825; Apr. 20; v. 273; p. 536.

Davis, Marion A., Sherman, Tex. Automobile-windlass. No. 1,337,757; Apr. 20; v. 273; p. 524.

Davis, Thomas, Mounds, Okla. Shock-absorber. No. 1,337,345; Apr. 20; v. 278; p. 446.

Davis, Thomas, Mounds, Okla. Shock-absorber. No. 1,337,346; Apr. 20; v. 273; p. 446.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Lock mechanism of ordnance. No. 1,337,308; Apr. 20; v. 273; p. 439.

Debakey, Shirker M., Lake Charles, La. Automobile auxiliary table. No. 1,337,886; Apr. 20; v. 273; p. 458.

De Cazen, Canaan, Montreal, Quebec, Canada. Means for propelling and steering ships. No. 1,337,442; Apr. 20; v. 273; p. 463.

De Cew, Judson A., Montreal, Quebec, Canada. Oil and soap solution. No. 1,337,546; Apr. 20; v. 273; p. 483.

De Costa, Arthur V., Providence, R. I. Toy. No. 1,337,758; Apr. 20; v. 273; p. 524.

Defiance Machine Works. (See McCarty, William F., assignor.)

De Forest, Edgar A., assignor to Marvel Machinery Company, Minneapolis, Minn. Boring-machine. No. 1,337,393; Apr. 20; v. 273; p. 455.

De Guenther, Edward J., Milwaukee, Wis. Hinge for closet-tops. No. 1,337,643; Apr. 20; v. 273; p. 502.

Delano, James K., Yonkers, N. Y. Electrical starting and ignition system. (Reissue.) No. 14,842; Apr. 20; v. 273; p. 568.

Delano, James K., New York, N. Y. Starting device for internal-combustion engines. No. 1,337,887; Apr. 20; v. 273; p. 549.

Delaygue, Charles, Paris, France. Apparatus for ice-making and refrigerating purposes. No. 1,337,888; Apr. 20; v. 273; p. 549.

Delco-Light Company, The. (See Kettering, Charles F., assignor.)

Delco-Light Company, The. (See Midgley, Thomas, Jr., assignor.)

De Lemos, Ernesto, New York, N. Y. Paper box. No. 1,337,507; Apr. 20; v. 273; p. 476.

Demas, Demetreos J., Pittsburgh, Pa. Resilient tire. No. 1,337,443; Apr. 20; v. 273; p. 464.

Demuth, Alfred M., Chicago, Ill. Slicing-machine. No. 1,337,596; Apr. 20; v. 273; p. 493.

Denemark, Jacob, Trenton, N. J. Machine for pressing seams. No. 1,337,204; Apr. 20; v. 273; p. 419.

Devine, George F., Portland, Me. Locomotive roundhouse-jack. No. 1,337,347; Apr. 20; v. 273; p. 446.

Dewey, Haywood G., assignor to F. H. Knapp Company, Westminster, Md. Method of and apparatus for wrapping cans and the like. No. 1,337,693; Apr. 20; v. 273; p. 511.

Diamond Power Specialty Company. (See Herman, S. J., and MacKenzie, assignors.)

Dick Safety Corporation. (See Woodman, Richard N., assignor.)

Dilg, Charles H. J., New York, N. Y. Motor-fan. No. 1,337,644; Apr. 20; v. 273; p. 502.

Dillingham, Frederick A., assignor to The Troy Carriage Sunshade Company, Troy, Ohio. Weather-strip. No. 1,337,394; Apr. 20; v. 273; p. 455.

Dingman, George, Flint, Mich. Hand-clamp and drill outfit. No. 1,337,205; Apr. 20; v. 273; p. 419.

Dittrich, August C., Chicago, Ill. Time control for sound-reproducing mechanism. No. 1,337,759; Apr. 20; v. 273; p. 524.

Dittrich, August C., Chicago, Ill. Time control for sound-reproducing mechanism. No. 1,337,760; Apr. 20; v. 273; p. 524.

Dmitriff, Vasily N., New York, N. Y., assignor of forty per cent. to R. Klavin, Seattle, Wash. Tree-sawing apparatus. No. 1,337,395; Apr. 20; v. 273; p. 455.

Dodge, Homer L., Iowa City, Iowa. Rheostat. No. 1,337,820; Apr. 20; v. 273; p. 536.

Dodge, William L., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,761; Apr. 20; v. 273; p. 524.

Dodson, John C., Stone Mountain, assignor of one-half to O. L. Dodson, Lithonia, Ga. Window shade and curtain hanger. No. 1,337,827; Apr. 20; v. 273; p. 537.

Dodson, Orbert L. (See Dodson, John C., assignor.)

Doering, Charles, Jr. (See Doering, Henry, C., Jr., and M.)

Doering, Henry, C., Jr., and M., Chicago, Ill. Liquid cooling and dispensing apparatus. No. 1,337,206; Apr. 20; v. 273; p. 419.

Doering, Max. (See Doering, Henry, C., Jr., and M.)

Dohner, John H., Dayton, Ohio. Coupling for tubing. No. 1,337,547; Apr. 20; v. 273; p. 484.

Doman, Lewis B., De Witt, assignor to The Amphion Piano Player Company, Syracuse, N. Y. Motor-mounting for bellows-pumps. No. 1,337,645; Apr. 20; v. 273; p. 502.

Doran, James A., and J. G., Providence, R. I. Separable button. No. 1,337,889; Apr. 20; v. 273; p. 549.

Doran, Joseph G. (See Doran, James A., and J. G., assignors.)

Dornbrook, Fred L., Milwaukee, Wis., assignor, by mesne assignments, to The Vulcan Soot Cleaner Company. Boiler soot-blower. No. 1,337,828; Apr. 20; v. 273; p. 537.

Derthen, Otto, Stillwater, Minn. Scraping-machine. No. 1,337,890; Apr. 20; v. 273; p. 549.

Doughty, Henry J., Providence, R. I., assignor to Doughty Tire Company, Portland, Me. Forming Tires and mechanism for practising the same. No. 1,337,207; Apr. 20; v. 273; p. 419.

Doughty Tire Company. (See Doughty, Henry J., assignor.)

Douglas, Harry A., Bronson, Mich. Gun. No. 1,337,444; Apr. 20; v. 273; p. 464.

Doyle, William J., Brooklyn, N. Y. Medical appliance. No. 1,337,829; Apr. 20; v. 273; p. 537.

Drabek, Charles, assignor to The Drabek Equalizer Company, Cleveland, Ohio. Spring-tire for vehicle-wheels. No. 1,337,445; Apr. 20; v. 273; p. 464.

Drabek Equalizer Company, The. (See Drabek, Charles, assignor.)

Drew Carrier Company. (See Peters, E. A., and Welhoefer, assignors.)

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Dugan, Thomas M. (See Holmes, A. B., and Dugan.)

Duluth Corrugating & Roofing Company. (See Severson, Thomas, assignor.)

Dunkelberger, Lloyd P., Allentown, Pa. Cloth-measuring device. No. 1,337,891; Apr. 20; v. 273; p. 549.

Duplex Truck Company. (See Thomas, George J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Booge, James E., assignor.)

Du Pont, E. I., de Nemours, and Company. (See Clark, Charles T., assignor.)

Du Pont, E. I., de Nemours and Company. (See Houlehan, Arthur E., assignor.)

Eaton, Harrison H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,337,208; Apr. 20; v. 273; p. 420.

Eckart, George F., Lexington, Ky. Flexible coupling. No. 1,337,646; Apr. 20; v. 273; p. 502.

Edman, John, Minneapolis, Minn., assignor, by mesne assignments to P. M. Power, Chicago, Ill. Convertible stock and freight car. No. 1,337,348; Apr. 20; v. 273; p. 446.

Edser, Edwin, Brockley, and S. Tucker, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of ores. No. 1,337,548; Apr. 20; v. 273; p. 484.

Eganey, Michael A., *et al.* (See Hemmer, Frederick L., assignor.)

Egersdörfer, Fritz. (See Hammer, Arthur, and Egersdörfer.)

Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-amplifier. No. 1,337,694; Apr. 20; v. 273; p. 512.

Ehret, Cornelius D., Philadelphia, Pa. Method of and apparatus for producing X-rays. No. 1,337,349; Apr. 20; v. 273; p. 447.

Eilender, Walter L. E., Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. High-speed steel. No. 1,337,209; Apr. 20; v. 273; p. 420.

Eilender, Walter L. E., Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. High-speed tool-steel. No. 1,337,210; Apr. 20; v. 273; p. 420.

Eilers, Frank, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Piston-head. No. 1,337,982; Apr. 20; v. 273; p. 567.

Elselt, Robert O., Blue Earth, Minn. Bicycle attachment. No. 1,337,396; Apr. 20; v. 273; p. 455.

Eklundh, John G. G., C. Oden, and J. A. Schmitt, assignors to The Universal Milking Machine Company, Columbus, Ohio. Milking-machine. No. 1,337,211; Apr. 20; v. 273; p. 420.

Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Mount for nails or the like. No. 1,337,212; Apr. 20; v. 273; p. 420.

Ellwein, Frederick, Hazen, N. D. Steering device for motor-vehicles. No. 1,337,830; Apr. 20; v. 273; p. 537.

Emerson, Victor L., Philadelphia, Pa. Apparatus for distillation. No. 1,337,831; Apr. 20; v. 273; p. 537.

Emery, Raymond D., assignor to W. M. Whitney, Winchendon, Mass. Woodworking-machine. No. 1,337,695; Apr. 20; v. 273; p. 512.

Endres, Lawrence M. (See Endres, Michael A., and L. M.)

Endres, Michael A. and L. M., Cross Plains, Wis. Sectional wheel-rim. No. 1,337,446; Apr. 20; v. 273; p. 464.

Engelberg, Arthur, Oakland, Calif. Telephone receiver and receiver-switch. No. 1,337,892; Apr. 20; v. 273; p. 550.

Enterprise Manufacturing Company of Pennsylvania, The. (See Punzeit, Edward E., assignor.)

Ershler, Louis H., and M. Hendler, Hudson, N. Y. Bed-spring. No. 1,337,508; Apr. 20; v. 273; p. 476.

Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)

Everett, Ernest P. (See Smith, H. J., and Everett.)

Everett Fibre Products Corporation. (See Smith, H. J., and Everett, assignors.)

Ewart, John W. (See Ewart, Samuel and J. W., and Prangnell.)

Ewart, Samuel and J. W., London, and N. W. Prangnell, Marylebone, London, England. Ventilating for light-projectors or lanterns. No. 1,337,832; Apr. 20; v. 273; p. 538.

Ewen, Malcolm F., Chicago, Ill., assignor, by mesne assignments, to Montague Iron Works Corporation. Refrigerating-cabinet. No. 1,337,696; Apr. 20; v. 273; p. 512.

Fafnir Bearing Company, The. (See Gilbert, Daniel J., assignor.)

Fairbanks, Morse & Company. (See Hobart, F. G., and Jahnke, assignors.)

Fairbanks, Morse & Company. (See Hobart, Franklin G., assignor.)

Fairey, Charles R., Hayes, England. Aeroplane. No. 1,337,762; Apr. 20; v. 273; p. 525.

Fairmont Gas Engine & Railway Motor Car Co. (See Kasper, Walter F., assignor.)

Farquhar, Moubray G., and A. H. Hill, Edgbaston, Birmingham, England. Cartridge-magazine for rifles and machine-guns. No. 1,337,893; Apr. 20; v. 273; p. 550.

Feldmann, William, Chicago, Ill. Temporary binder. No. 1,337,213; Apr. 20; v. 273; p. 420.

Fisch, Benjamin, Brooklyn, N. Y. Sleigh-runner attachment for vehicles. No. 1,337,833; Apr. 20; v. 273; p. 538.

Fischer, Philip A., New York, N. Y. Adjustable cap. No. 1,337,397; Apr. 20; v. 273; p. 455.

Fisher, J. Arthur. (See Fitzgerald, Robert J., assignor.)

Fitzgerald, Robert J., assignor of one-half to J. A. Fisher, New York, N. Y. Condenser. No. 1,337,549; Apr. 20; v. 273; p. 484.

Fleckner, Luther M., San Francisco, Calif. Tree-shaker. No. 1,337,398; Apr. 20; v. 273; p. 456.

Fletcher, Harold W., Houston, Tex. Pipe-tongs. No. 1,337,509; Apr. 20; v. 273; p. 476.

Flynn, John. (See McClellan, C. D., and Flynn.)

Fornirasco, Domenico, Klamath Falls, Oreg. Wrench. No. 1,337,550; Apr. 20; v. 273; p. 484.

Forshee, James K., Chicago, Ill. Electrode. No. 1,337,894; Apr. 20; v. 273; p. 550.

Forward, Frank L., Nyack, N. Y., assignor to Universal Planer Company, Inc. Portable planing-machine. No. 1,337,350; Apr. 20; v. 273; p. 447.

Fountain, Jefferson L., Jr. (See Abbott, Cecil H., assignor.)

Four-Drive Tractor Company, The. (See Polaski, Henry P., assignor.)

Fowden, Joseph J., Philadelphia, Pa. Fire-grate. No. 1,337,214; Apr. 20; v. 273; p. 421.

Fowler, Ben F., Midian, Kans. Means of sediment-drainage. No. 1,337,215; Apr. 20; v. 273; p. 421.

Fowler, Charles. (See Nicholson, John W., assignor.)

Fox Typewriter Co. (See Nordmark, Henry P., assignor.)

Francis, Vincent H., Drumright, Okla., assignor to Frick-Reid Supply Company, Pittsburgh, Pa. Pump. No. 1,337,834; Apr. 20; v. 273; p. 538.

Frank, Harry S., St. Louis, Mo. Making piston-rings. No. 1,337,551; Apr. 20; v. 273; p. 484.

Frank, Joseph, Frankfort-on-the-Main, Germany. Writing-tablet. No. 1,337,835; Apr. 20; v. 273; p. 538.

Frank, Otto H., Brooklyn, N. Y. Rack for hanging articles and the like. No. 1,337,399; Apr. 20; v. 273; p. 456.

Frankman, Olof, Malmö, Sweden. Driving and running gear for agricultural machines and the like. No. 1,337,510; Apr. 20; v. 273; p. 477.

Frary, Francis C., Pittsburgh, Pa. Gas-holder. No. 1,337,975; Apr. 20; v. 273; p. 566.

Freed, George F., Ben Avon, assignor to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Driving connection to washing-machine cylinders. No. 1,337,552; Apr. 20; v. 273; p. 484.

Freedman, Benjiman, Coney Island, N. Y. Lock. No. 1,337,511; Apr. 20; v. 273; p. 477.

Freeman, William A., Hamilton, Ontario, Canada. Door-latch. No. 1,337,447; Apr. 20; v. 273; p. 465.

French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,337,448; Apr. 20; v. 273; p. 465.

French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,337,895; Apr. 20; v. 273; p. 550.

Frick Company. (See Barnes, Samuel C., assignor.)

Frick-Reid Supply Company. (See Francis, Vincent H., assignor.)

Friedman, Samuel W., Birmingham, Ala. Detachable trunk-rack for automobiles. No. 1,337,647; Apr. 20; v. 273; p. 502.

Fuelling, Franklin C., Roslyn, N. Y. Ironing-board. No. 1,337,512; Apr. 20; v. 273; p. 477.

Fuller, James W., Catasauqua, assignor to Fuller-Lehigh Company, Fullerton, Pa. Sampling device for pulverizer-mills. No. 1,337,697; Apr. 20; v. 273; p. 512.

Fuller-Lehigh Company. (See Fuller, James W., assignor.)

Fuller, Norman A., Yamhill, Oreg. Loader. No. 1,337,896; Apr. 20; v. 273; p. 550.

Fulton Company, The. (See Fulton, Weston M., assignor.) (Reissue.)

Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Automatic tank regulator. (Reissue.) No. 14,843; Apr. 20; v. 273; p. 568.

Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Carrier for driers and the like. No. 1,337,351; Apr. 20; v. 273; p. 447.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Synchronous alternating-current motor. No. 1,337,648; Apr. 20; v. 273; p. 502.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starting and ignition system for internal-comonstion engines. No. 1,337,649; Apr. 20; v. 273; p. 503.

Gandil, Ernst V., Copenhagen, Denmark. Door-spring. No. 1,337,763; Apr. 20; v. 273; p. 525.

Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Work-table for grinding-machines. No. 1,337,352; Apr. 20; v. 273; p. 447.

Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Grinding-machine. No. 1,337,353; Apr. 20; v. 273; p. 447.

Garrigue, Florence, Danvers, Mass. Toy. No. 1,337,354; Apr. 20; v. 273; p. 447.

Garson, Thorvald N., New York, N. Y. Crane. No. 1,337,400; Apr. 20; v. 273; p. 456.

Gaskin, Robert J. (See Tarras, Harry M., assignor.)

Gates, Abram, Carroll, near Burnetts Creek, Ind. Spark-plug. No. 1,337,216; Apr. 20; v. 273; p. 421.

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Coolidge, William D., assignor.)

General Electric Company. (See French, Henry G., assignor.)

General Electric Company. (See Hall, Chester I., assignor.)

General Electric Company. (See Johannesen, Svend E., assignor.)

General Electric Company. (See Mackay, George M. J., assignor.)

General Electric Company. (See Murphy, E. J., and Thompson, assignor.)

General Electric Company. (See Shorey, John A., assignor.)

General Electric Company. (See Thompson, Louis W., assignor.)

General Petroleum Corporation. (See Cannon, H., Barbre, and Leslie, assignors.)

General Petroleum Corporation. (See Leslie, E. H., and Barbre, assignors.)

Gerardy, Edward, Chandler, Okla. Indicator for hay-presses. No. 1,337,553; Apr. 20; v. 273; p. 484.

Ghent, George A., Buhl, Idaho. Land-leveling machine. No. 1,337,355; Apr. 20; v. 273; p. 448.

Gilbert, Daniel J., assignor to The Fafnir Bearing Company, New Britain, Conn. Oiling and protecting means for ball-bearings, &c. No. 1,337,597; Apr. 20; v. 273; p. 493.

Gilbert, Frederick B., Modesto, Calif. Gate-operating mechanism. No. 1,337,897; Apr. 20; v. 273; p. 550.

Gilbert, John T., De Funiak Springs, Fla. Device for use in buying ice. No. 1,337,836; Apr. 20; v. 273; p. 538.

Gillingham, Charles A., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Battery-switch. No. 1,337,217; Apr. 20; v. 273; p. 421.

Gilmer, Thomas W., Bay Minette, Ala. Strainer or receptacle. No. 1,337,898; Apr. 20; v. 273; p. 551.

Girard, Fred F., Washingtonville, Ohio. Jar wrench and holder. No. 1,337,899; Apr. 20; v. 273; p. 551.

Glaze, Frederick E., Denver, Colo. Rotary engine. No. 1,337,218; Apr. 20; v. 273; p. 421.

Gleason, L. H. (See Zahnow, Frank C., assignor.)

Godward, James F., Ashtabula Harbor, Ohio. Garment-supporter. No. 1,337,901; Apr. 20; v. 273; p. 551.

Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)

Gold, Edward E., New York, N. Y., assignor to Gold Car Heating & Lighting Company. Electrothermic motor for thermostatic systems. No. 1,337,764; Apr. 20; v. 273; p. 525.

Golden, P. F. (See Beach, John, assignor.)

Góngora, Tomás, San Antonio, Tex. Man's garment. No. 1,337,698; Apr. 20; v. 273; p. 512.

Goodman Manufacturing Company. (See Sloane, William W., assignor.)

Goodrich, B. F., Company, The. (See Converse, F. B., and Butler, assignors.)

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,309; Apr. 20; v. 273; p. 439.

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,310; Apr. 20; v. 273; p. 439.

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,699; Apr. 20; v. 273; p. 513.

Gore, Jacob L., assignor of one-half to A. L. Blount, Hugo, Okla. Automatic ticket-dispensing machine. No. 1,337,837; Apr. 20; v. 273; p. 539.

Goulding, Horatio C., *et al.* (See Johnson, A. L., and Alsten, assignors.)

Graf, Fredric O., San Francisco, Calif. Knockdown cabinet for automobiles. No. 1,337,449; Apr. 20; v. 273; p. 465.

Grant, James W., Bridgeport, Conn., assignor to F. J. Klein, Long Island City, N. Y. Paper-fastener. No. 1,337,598; Apr. 20; v. 273; p. 493.

Graves, Velma C., Yakima, Wash. Plate-lifting device. No. 1,337,450; Apr. 20; v. 273; p. 465.

Gray, Ellsworth, Goose Creek, Tex. Spear. No. 1,337,902; Apr. 20; v. 273; p. 551.

Green, M. E., Manufacturing Company. (See Scott, John M., assignor.)

Greenwood, Harold C., London, England. Synthetic production of ammonia. No. 1,337,903; Apr. 20; v. 273; p. 552.

Greville, Ernest E., London, England. X-ray tube-stand and table. No. 1,337,904; Apr. 20; v. 273; p. 552.

Griffin, Albert A., Davenport, Iowa. Chiropractic table. No. 1,337,311; Apr. 20; v. 273; p. 439.

Griffin, Albert A., Davenport, Iowa. Chiropractic table. No. 1,337,312; Apr. 20; v. 273; p. 440.

Griffin, John J., & Sons Limited. (See McAlpine, George L., assignor.)

Griffiths, Ethel G., *et al.*, executors. (See Whitaker, Frederick B.)

Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Device for connecting tools to spindles. No. 1,337,313; Apr. 20; v. 273; p. 440.

Groves, George S., Mount Ida, Va. Tractor unit. No. 1,337,905; Apr. 20; v. 273; p. 552.

Gutberlet, Charles, Philadelphia, Pa. Cutting and folding machine. No. 1,337,900; Apr. 20; v. 273; p. 551.

Guyer, James, and G. Morales, New York, N. Y. Transmission-gearing. No. 1,337,906; Apr. 20; v. 273; p. 552.

Gwatkin, Benjamin. (See Randall, Victor E., assignor.)

Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-shoe and counter therefor. No. 1,337,219; Apr. 20; v. 273; p. 422.

Haggett, Warren A., trustee. (See Wingett, John N., assignor.)

Haldeman, Frederick Canton, Ohio. Window-lock. No. 1,337,513; Apr. 20; v. 273; p. 477.

Halftime Cooker Company. (See Waggoner, Jacob E., assignor.)
Hall, Charles W., Keystone, W. Va. Sand-drier. No. 1,337,220; Apr. 20; v. 273; p. 422.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermostatic-valve unit. No. 1,337,907; Apr. 20; v. 273; p. 552.
Hall, Fred G., *et al.* (See Baird, Clifford J., assignor.)
Hall, John A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,337,314; Apr. 20; v. 273; p. 440.
Hallowell, Andrew H. (See Clay, W. L., and Hallowell.)
Hammer, Arthur, Berlin, and F. Egersdörfer, Berlin-Charlottenburg, Germany; said Egersdörfer assignor to said Hammer. Machine for marking linen and the like. No. 1,337,650; Apr. 20; v. 273; p. 503.
Hammond, William P., Passaic, N. J., and L. W. Luellen, Mountain Lakes, N. J., assignors, by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing device. No. 1,337,838; Apr. 20; v. 273; p. 539.
Hammontree, Charles O., and V. A. Nelson, Bremerton, Wash. Piston ring remover and inserter. No. 1,337,600; Apr. 20; v. 273; p. 494.
Hancock, John. (See Gloemker, Henry W., assignor.)
Handlan-Buck Manufacturing Company. (See Rolfes, George H., assignor.)
Hansen, Christen M., Jersey City, N. J. Revoluble seat. No. 1,337,221; Apr. 20; v. 273; p. 422.
Hardel, Jean A., Paris, France. Explosive. No. 1,337,451; Apr. 20; v. 273; p. 465.
Hardie, R. W., Company. (See Hardie, Robert W., assignor.)
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air-moistener. No. 1,337,766; Apr. 20; v. 273; p. 526.
Harned, Charles T., Philadelphia, Pa. Flag-support. No. 1,337,222; Apr. 20; v. 273; p. 422.
Harris, Alfred F., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Delivery mechanism. No. 1,337,223; Apr. 20; v. 273; p. 422.
Harris Automatic Press Company, The. (See Harris, Alfred F., assignor.)
Harris, Ralph W., Newark, Ohio. Automobile attachment. No. 1,337,555; Apr. 20; v. 273; p. 485.
Harris, William J. B., Bonham, Tex. Safe-lock. No. 1,337,554; Apr. 20; v. 273; p. 485.
Harris, William T., Charlottesville, Va. Feed-water heater and exhaust-steam conserver. No. 1,337,556; Apr. 20; v. 273; p. 485.
Harrison, Elmer F., Arthur, Ill. Gathering apparatus. No. 1,337,452; Apr. 20; v. 273; p. 465.
Harrison, William H. (See Wilbur, R. S., and Harrison.)
Harrison, William H., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,471; Apr. 20; v. 273; p. 469.
Hartog, S. D., Manufacturing Company. (See Hartog, Stephen D., assignor.)
Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Piston-ring. No. 1,337,651; Apr. 20; v. 273; p. 503.
Harvey, Leonard C., Malden, England. Electrically-heated melting-furnace. No. 1,337,839; Apr. 20; v. 273; p. 539.
Harvey, Stanley T., Vancouver, British Columbia, Canada. Advertising display device. No. 1,337,315; Apr. 20; v. 273; p. 440.
Harwood, Leon C. (See Cheney, G. M., and Harwood.)
Hastings, Cornelius G., Glendale, Calif., assignor to Hastings Tunnel System Company. Tunnel-block. No. 1,337,767; Apr. 20; v. 273; p. 526.
Hastings Tunnel System Company. (See Hastings, Cornelius G., assignor.)
Hauschild, George W. (See Burnwatt, W. W., and Hauschild.)
Havens, Clara V., New York, N. Y. Brassière. No. 1,337,224; Apr. 20; v. 273; p. 423.
Hawks, Moses L., New York, N. Y. Can-opener. No. 1,337,514; Apr. 20; v. 273; p. 477.
Hawley, William L., North Little Rock, Ark. Wall-flashing. No. 1,337,840; Apr. 20; v. 273; p. 539.
Heald, Clarence L., Cedar Rapids, Iowa. Artificial respirator. No. 1,337,255; Apr. 20; v. 273; p. 423.
Hearn, John F. (See Reynolds, J. N., and Hearn.)
Heath, Samuel, Philadelphia, Pa. Combination-bracket for screens, shades, and curtains. No. 1,337,768; Apr. 20; v. 273; p. 526.
Heberling, John, Rochester, N. Y. Indicating-lock. No. 1,337,401; Apr. 20; v. 273; p. 456.
Heide, William, Detroit, Mich. Priming device. No. 1,337,226; Apr. 20; v. 273; p. 423.
Helliwell, John O., Pasadena, Calif. Pneumatic-tire valve. No. 1,337,316; Apr. 20; v. 273; p. 440.
Hembree, Samuel S., and A. L. Johnson, Farris, Okla. Power-transmission mechanism. No. 1,337,908; Apr. 20; v. 273; p. 552.
Hemingway, Frank, Boundbrook, N. J. Manufacture of pure ferric oxid. No. 1,337,402; Apr. 20; v. 273; p. 456.
Hemmer, Frederick L., Lincoln, assignor of one-third to J. L. Schneider, New Market, and one-third to M. A. Eganey, Boundbrook, N. J. Nut-lock. No. 1,337,700; Apr. 20; v. 273; p. 513.
Hemming, Otto L., assignor to Winchester Repeating Arms Co., New Haven, Conn. Pocket-knife. No. 1,337,769; Apr. 20; v. 273; p. 526.
Hendey Machine Company. (See Boullion, Constant, assignor.)
Hendler, Max. (See Ershler, L. H., and Hendler.)
Herbst, William B., Columbus, Ind. Wind-shield screen. No. 1,337,472; Apr. 20; v. 273; p. 469.
Hercules Manufacturing Company. (See Berkeley, Laurence J., assignor.)
Herman, Jacob E., *et al.* (See Kuhn, Adam M., assignor.)
Herman, Samuel J., and C. M. MacKenzie, assignors to Diamond Power Specialty Company, Detroit, Mich. Boiler-tube cleaner. No. 1,337,557; Apr. 20; v. 273; p. 485.
Herz, Alfred, assignor of one-half to Edmund O. Schweitzer, Chicago, Ill. Fuse device. (Reissue.) No. 14,844; Apr. 20; v. 173; p. 568.
Hilbish, John E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,337,976; Apr. 20; v. 273; p. 566.
Hill, Arthur H. (See Farquhar, Moubray G., and Hill.)
Hill Pump Valve Company. (See Reich, Ernest, assignor.)
Hillard, Frederic W., Tottenville, N. Y., assignor of one-half to M. R. Hillard, Middlebury, Conn. Typewriter. No. 1,337,977; Apr. 20; v. 273; p. 566.
Hillard, Mary R. (See Hillard, Frederic W., assignor.)
Himes, Burnie L., Brasfield, Ark. Loading and unloading device. No. 1,337,356; Apr. 20; v. 273; p. 448.
Hinton, U. S. G. (See Rice, Orrin, assignor.)
Hobart, Franklin G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine-feeding device. No. 1,337,770; Apr. 20; v. 273; p. 526.
Hobart, Franklin G., and Charles B. Jahnke, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine. No. 1,337,771; Apr. 20; v. 273; p. 527.
Hodge, George H., and J. C. Robinson, London, England. Baker's oven. No. 1,337,909; Apr. 20; v. 273; p. 553.
Hodgson, William, New York, N. Y. Fluid-temperature regulator. No. 1,337,701; Apr. 20; v. 273; p. 513.
Hoecker, Albert C., Collinsville, Ill. Contractor-expander. No. 1,337,652; Apr. 20; v. 273; p. 503.
Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,227; Apr. 20; v. 273; p. 423.
Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,228; Apr. 20; v. 273; p. 423.
Hoffman, Louis. (See Hoffman, Harry and L.)
Hogan, Jay J., Erie, Pa. Priming device. No. 1,337,772; Apr. 20; v. 273; p. 527.
Holdorf, William H., Minneapolis, Minn. Fuse-indicator. No. 1,337,357; Apr. 20; v. 273; p. 448.
Holle, Alexander A., London, England. Aerofoil for aeroplanes and the like. No. 1,337,515; Apr. 20; v. 273; p. 477.
Holloway, William M., Austin, assignor to Charles W. Shonk Company, Chicago, Ill. Adding-machine. No. 1,337,599; Apr. 20; v. 273; p. 493.
Holm, Christian, Bowman, N. D. Expansible core. No. 1,337,910; Apr. 20; v. 273; p. 553.
Holmes, Albert B., and T. M. Dugan, McKeesport, Pa. Spray-valve. No. 1,337,516; Apr. 20; v. 273; p. 478.
Holmes, Edward L., assignor to Printing Trades Manufacturing Company, Seattle, Wash. Linotype-mold. No. 1,337,358; Apr. 20; v. 273; p. 448.
Holtvoigt, Henry R., Dayton, Ohio. Kite and making same. No. 1,337,403; Apr. 20; v. 273; p. 456.
Hoover, Thomas A., Fresno, Calif. Tire-carrier. No. 1,337,911; Apr. 20; v. 273; p. 553.
Horgan, Patrick J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,337,229; Apr. 20; v. 273; p. 423.
Horton Manufacturing Company, The. (See Thorpe, Samuel T., assignor.)
Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of lower-boiling hydrocarbons from higher-boiling hydrocarbons. No. 1,337,317; Apr. 20; v. 273; p. 441.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,337,702; Apr. 20; v. 273; p. 513.
Howden, James, & Company. (See Hume, James H., assignor.)
Howell, Samuel M., Zanesville, Ohio. Metallurgical furnace. No. 1,337,703; Apr. 20; v. 273; p. 513.
Hubshman, Louis. (See Morgan, William J., assignor.)
Hudson, Charles H. (See Pinkerton, Edward E., assignor.)
Hughes, Henry A., London, and T. Y. Baker, Slough, England. Sextant. No. 1,337,912; Apr. 20; v. 273; p. 553.
Hult, Rolf H., Hyltebruk, Sweden. Boiling indirectly. No. 1,337,704; Apr. 20; v. 273; p. 514.
Humason, Granville A., Houston, Tex., assignor to Humason Roller Bit Company. Drill-bit. No. 1,337,913; Apr. 20; v. 273; p. 553.
Humason Roller Bit Company. (See Humason, Granville A., assignor.)
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Steam-generator fitted with superheater. No. 1,337,653; Apr. 20; v. 273; p. 503.
Hyden, William, Kingston, W. Va. Truck. No. 1,337,914; Apr. 20; v. 273; p. 554.
Hyszka, Maty, Myrtle Point, British Columbia, Canada. Ship-salvage device. No. 1,337,601; Apr. 20; v. 273; p. 494.

Illinois Tool Works. (See Olson, Carl G., assignor.)
Indiana Veneer and Panel Company. (See Ruoff, John, assignor.)
Individual Drinking Cup Company. (See Hammond, W. P., and Luellen, assignors.)
Individual Drinking Cup Company. (See Luellen, Lawrence W., assignor.)
Industrial Research Corporation. (See Belden, Eduard H., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ireland, Robert H., Brooklyn, N. Y. Parlor baseball-game. No. 1,337,773; Apr. 20; v. 273; p. 527.
Irenius, Joseph V., Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y. Mechanical toy. No. 1,337,705; Apr. 20; v. 273; p. 514.
Ives, Minnie A. P. (See Boardman, Solomon, assignor.)
Ives, Minnie P., administratrix, *et al.* (See Boardman, Solomon.)
Izquierdo, Juan M., Habana, Cuba. Filtering apparatus. No. 1,337,517; Apr. 20; v. 273; p. 478.
Jacobs, George, and F. C. Ruppel, Detroit, Mich. Signal-lamp. No. 1,337,230; Apr. 20; v. 273; p. 424.
Jahnke, Charles B. (See Hobart, F. G., and Jahnke.)
Janesville Products Company. (See Benson, Andrew, assignor.)
Jankower, David, New York, N. Y. Disk typewriter. No. 1,337,318; Apr. 20; v. 273; p. 441.
Jasina, John, Detroit, Mich. Telephone-reminder. No. 1,337,319; Apr. 20; v. 273; p. 441.
Jeannotte, Charles E., Montreal, Quebec, Canada. Water-heater. No. 1,337,473; Apr. 20; v. 273; p. 469.
Jeffries, Oscar S., Sr., assignor to J. B. Miller, Philadelphia, Pa. Variable-speed mechanism. No. 1,337,602; Apr. 20; v. 273; p. 494.
Jenckes, Lawrence B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-bobbin. No. 1,337,706; Apr. 20; v. 273; p. 514.
Jennings, Emerson P., Lehighton, Pa. Gripping device for sheets of paper and the like. No. 1,337,231; Apr. 20; v. 273; p. 424.
Jennings, Myron A., Santa Cruz, Calif. Die for power-hammers. No. 1,337,474; Apr. 20; v. 273; p. 470.
Jensen, George C., Oakland, Calif. Lock, retainer, and interlock for shifter devices. No. 1,337,654; Apr. 20; v. 273; p. 504.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. No. 1,337,915; Apr. 20; v. 273; p. 554.
Johnson, Alvin L., and A. O. Alsten, assignors of one-fourth to H. C. Goulding and one-fourth to J. A. Alsten, Worcester, Mass. Pneumatic core for use in repairing tires. No. 1,337,707; Apr. 20; v. 273; p. 514.
Johnson, Ambrose L. (See Hembree, S. S., and Johnson.)
Johnson, Bennett L. (See Allen, Rodney D., assignor.)
Johnson Service Company. (See Otto, Arthur J., assignor.)
Johnston, Millard L., Utica, N. Y. Gun-mount. No. 1,337,359; Apr. 20; v. 273; p. 448.
Jones, Joseph W. (See Montague, Merrell S., assignor.)
Jones, Robert F., Eastport, Me., assignor to W. Waltke & Co., St. Louis, Mo. Machine for boxing sardine-cans and the like. No. 1,337,404; Apr. 20; v. 273; p. 457.
Jordan, Wesley E., Erie, Pa. Top plate for stoves. No. 1,337,774; Apr. 20; v. 273; p. 527.
Jourdan, Mason F., Muskogee, Okla. Camera-tripping device. No. 1,337,603; Apr. 20; v. 273; p. 494.
Juhl, Peter C., New York, N. Y. Combination tractor and repeller. No. 1,337,841; Apr. 20; v. 273; p. 539.
Jullinsen, Hans, Chicago, Ill. Centrifugal pump. No. 1,337,916; Apr. 20; v. 273; p. 554.
Jungers, John, Grafton, Wis. Firepot for ranges. No. 1,337,604; Apr. 20; v. 273; p. 494.
Jungers, John, Grafton, Wis. Stove-trimming. No. 1,337,605; Apr. 20; v. 273; p. 495.
Just, Alvah L., Syracuse, N. Y. Dust-cap. No. 1,337,606; Apr. 20; v. 273; p. 495.
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater. No. 1,337,708; Apr. 20; v. 273; p. 514.
Kalmus Comstock & Westcott. (See Wall, Edward J., assignor.)
Kaplan, Nathan, Covington, Ga. Shirt. No. 1,337,917; Apr. 20; v. 273; p. 554.
Karasevicz, Jouzas, South Amboy, N. J. Baby-coach awning. No. 1,337,360; Apr. 20; v. 273; p. 448.
Karlsson, Georg. (See Wiberg, O. A., and Karlsson.)
Karr, Francis, Holland, Mich. Spring-mattress. No. 1,337,320; Apr. 20; v. 273; p. 441.
Kasper, Stanley, Buxton, Iowa. Convertible ladder and bench. No. 1,337,361; Apr. 20; v. 273; p. 449.
Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Weed-cutter. No. 1,337,655; Apr. 20; v. 273; p. 504.
Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Gas-engine bearing. No. 1,337,656; Apr. 20; v. 273; p. 504.
Kawneer Manufacturing Company. (See Plym, Francis J., assignor.)
Kayser, Julius, & Co. (See Webb, George S., Jr., assignor.)
Kelleher, Mary E., Rutland, Vt. Stepladder. No. 1,337,657; Apr. 20; v. 273; p. 504.
Kelley, William V. D., New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Motion-picture film. No. 1,337,775; Apr. 20; v. 273; p. 527.
Kellogg Switchboard and Supply Company. (See Hilbish, John E., assignor.)
Kelly, Benjamin F., Denver, Colo. Carrier. No. 1,337,518; Apr. 20; v. 273; p. 478.
Kelsey Wheel Company. (See Winter, John R., assignor.)
Kennerly, Milton C., Stuart, Okla. Churn-support. No. 1,337,362; Apr. 20; v. 273; p. 449.
Kennington, George W., Brooklyn, N. Y. Self-seating door-handle. No. 1,337,918; Apr. 20; v. 273; p. 554.
Kent, Alden J., assignor of one-half to S. F. Knowles, Jr., Rowley, Mass. Twisting and winding machine. No. 1,337,658; Apr. 20; v. 273; p. 505.
Kern, Maximilian H., Ridgewood, N. Y., assignor to Roberts Numbering Machine Company. Numbering-head. No. 1,337,232; Apr. 20; v. 273; p. 424.
Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,337,659; Apr. 20; v. 273; p. 505.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical distribution and control. No. 1,337,363; Apr. 20; v. 273; p. 449.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical generation and control. No. 1,337,364; Apr. 20; v. 273; p. 449.
Killen, Edward B., London, England. Pneumatic tire. No. 1,337,660; Apr. 20; v. 273; p. 505.
King, Albert E., Wanganui, New Zealand. Container-piercing and tank-filling machine. No. 1,337,558; Apr. 20; v. 273; p. 485.
Kingsford, Walter E., Weatherford, Tex. Adjustable foot-rest. No. 1,337,919; Apr. 20; v. 273; p. 555.
Kirby, James B., Cleveland, Ohio. Washing-machine. No. 1,337,453; Apr. 20; v. 273; p. 466.
Kirk, Charles J., New Castle, Pa. Heat-treating furnace. No. 1,337,454; Apr. 20; v. 273; p. 466.
Klein, Fred J. (See Grant, James W., assignor.)
Klenke, August C., Berkeley, assignor of one-half to B. L. Benson, and one-half to J. J. O. Winks, San Francisco, Calif. Clip. No. 1,337,607; Apr. 20; v. 273; p. 495.
Kliavin, Rudolph. (See Dmitriff, Vasily N., assignor.)
Kliewer, Edward A., Tolar, Tex. Overshot fishing-tool. No. 1,337,476; Apr. 20; v. 273; p. 470.
Knapp, Fred H., Company. (See Dewey, Haywood G., assignor.)
Knapp, Henry F., Lebanon, N. H. Apparatus for washing automobiles and the like. No. 1,337,477; Apr. 20; v. 273; p. 470.
Knapp, Leo M., Wellsville, N. Y. Compression-tester. No. 1,337,455; Apr. 20; v. 273; p. 466.
Knight, Herbert M., Rome, N. Y. Burial-vault. No. 1,337,559; Apr. 20; v. 273; p. 486.
Knowles, Clarence H. (See Nickol, F. C., and Knowles.)
Knowles, James A., Baltimore, Md. Universal-joint puller. No. 1,337,233; Apr. 20; v. 273; p. 424.
Knowles, Samuel F., Jr. (See Kent, Alden J., assignor.)
Kohler, Ernest, Alameda, Calif. Torpedo capturing and destroying net. No. 1,337,920; Apr. 20; v. 273; p. 555.
Kohn, Milton M., assignor to The Ventilator Fan Co., Inc., New York, N. Y. Ventilator-fan. No. 1,337,560; Apr. 20; v. 273; p. 486.
Koken, Walter F., St. Louis, Mo. Pedestal-base for barber-chairs. No. 1,337,608; Apr. 20; v. 273; p. 495.
Koken, Walter F., St. Louis, Mo. Seat-frame for barber-chairs. No. 1,337,609; Apr. 20; v. 273; p. 495.
Kopf, John G., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,337,519; Apr. 20; v. 273; p. 478.
Kopf, Melrose G., assignor to The Kalko Products Company, Dayton, Ohio. Supporting-bracket for fire-extinguishers and the like. No. 1,337,234; Apr. 20; v. 273; p. 424.
Koppers Company, The. (See Becker, Joseph, assignor.)
Kovzovich, Vincent J., assignor of one-half to J. Letsky, New Britain, Conn. Automobile signaling device. No. 1,337,405; Apr. 20; v. 273; p. 457.
Krauss, Adolf, Cannstatt, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Mechanical interrupter for electric ignition systems. No. 1,337,456; Apr. 20; v. 273; p. 466.
Krebs, John C. L. (See Wells, Walter W., assignor.)
Kuhn, Adam M., assignor of one-third to C. M. Kuhn and one-third to J. E. Herman, Kearney, Nebr. Ball-and-socket joint. No. 1,337,235; Apr. 20; v. 273; p. 425.
Kuhn, Charles M., *et al.* (See Kuhn, Adam M., assignor.)
Kumpf, August D., Philadelphia, Pa. Actuating mechanism for windows, sashes, shutters, or the like. No. 1,337,776; Apr. 20; v. 273; p. 527.
Lake, Simon, Milford, Conn. Apparatus for rivet-setting and similar operations. No. 1,337,457; Apr. 20; v. 273; p. 466.
La Fleur, Charles E., Philadelphia, Pa. Egg-case filler. No. 1,337,978; Apr. 20; v. 273; p. 566.
Lalonde, Louise. (See Lalonde, Moses, assignor.)
Lalonde, Moses, assignor of one-half to L. Lalonde, Springfield, Mass. Toy. No. 1,337,661; Apr. 20; v. 273; p. 505.
Lamb, Henry W., Brookline, Mass. Method of and apparatus for treating metal sheets. No. 1,337,458; Apr. 20; v. 273; p. 467.
Lamb, Homer M., West Frankfort, Ill. Adjustable guide-clamp. No. 1,337,921; Apr. 20; v. 273; p. 555.

Lambertz, Josef, Hennef-on-the-Sieg, Germany. Closing device for the material-receptacles of automatic weighing-machines. No. 1,337,842; Apr. 20; v. 273; p. 540.

Lane, Philander E., Atlantic City, N. J. Drop-hammer. No. 1,337,520; Apr. 20; v. 273; p. 479.

Langley, Charles E., Keokuk, Iowa. Phonographic-record cabinet. No. 1,337,922; Apr. 20; v. 273; p. 555.

Lapka, Andrzej, Simpson, Pa. Churn. No. 1,337,777; Apr. 20; v. 273; p. 528.

La Porte, Ralph P., Schenectady, N. Y. Electric welding appliance. No. 1,337,662; Apr. 20; v. 273; p. 505.

Lappalainen, Alfred, Vancouver, British Columbia, Canada. Violin-support. No. 1,337,459; Apr. 20; v. 273; p. 467.

Laube, Arthur, New Bedford, Mass. Non-refillable bottle. No. 1,337,923; Apr. 20; v. 273; p. 555.

Lauer, Jacob, Jr., Cherokee, Iowa. Draw-bar for tractors. No. 1,337,521; Apr. 20; v. 273; p. 479.

Lautner, Ernest S., Solon township, Leelanau county, Mich. Fruit-grader. No. 1,337,924; Apr. 20; v. 273; p. 556.

Layer, Charles, Syracuse, N. Y. Gearless differential. No. 1,337,460; Apr. 20; v. 273; p. 467.

Lawrence, Edward H., Cameron, W. Va., and R. E. Crane, Wilmette, Ill. Making sanitary earthenware. No. 1,337,663; Apr. 20; v. 273; p. 506.

Leach, Martin A., Los Angeles, Calif. Attachment for automobiles. No. 1,337,522; Apr. 20; v. 273; p. 479.

Le Blond R. K., Machine Tool Company, The. (See Greene, William F., assignor.)

Leeds & Northrup Company. (See Smith, Irving B., assignor.)

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,337,778; Apr. 20; v. 273; p. 528.

Leonard, Leslie V., Richmond, Victoria, Australia. Electric-heating resistance element. No. 1,337,779; Apr. 20; v. 273; p. 528.

Leslie, Eugene H. (See Cannon, H., Barbre, and Leslie.)

Leslie, Eugene H., and C. Barbre, Los Angeles, Calif., assignors to General Petroleum Corporation. Refining cracked oils. No. 1,337,523; Apr. 20; v. 273; p. 479.

Letroteur, Maurice L., Paris, France. Motor-plow. No. 1,337,929; Apr. 20; v. 273; p. 557.

Letsky, James. (See Kovzovich, Vincent J., assignor.)

Levy, William, Paterson, N. J. Cooking device. No. 1,337,524; Apr. 20; v. 273; p. 479.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Animal-stanchion. No. 1,337,925; Apr. 20; v. 273; p. 556.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Manger partition. No. 1,337,926; Apr. 20; v. 273; p. 556.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Animal-stanchion. No. 1,337,927; Apr. 20; v. 273; p. 556.

Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-controlled dead-locking device. No. 1,337,928; Apr. 20; v. 273; p. 556.

Lichtenstein, Alexander, Brooklyn, N. Y. Wire-scraping tool. No. 1,337,236; Apr. 20; v. 273; p. 425.

Light, Peter, Cincinnati, Ohio. Hoisting and displaying device. No. 1,337,237; Apr. 20; v. 273; p. 425.

Lind, Jacob P., Columbus, Ohio. Vehicle-lock. No. 1,337,709; Apr. 20; v. 273; p. 515.

Litchfield Shuttle Company. (See Cheney, G. M., and Harwood, assignors.)

Lockart, Andrew B., Redlands, Calif. Valve-spring compressor. (Reissue.) No. 14,845; Apr. 20; v. 273; p. 569.

Locomotive Firebox Company. (See Nicholson, John L., assignor.)

Long, Russel L., Morgantown, W. Va. Water-motor for egg-beaters. No. 1,337,478; Apr. 20; v. 273; p. 470.

Lonskey, John H., assignor to Central Specialty Company, Detroit, Mich. Molding-machine. No. 1,337,780; Apr. 20; v. 273; p. 528.

Loomis, Arthur H., Las Cruces, N. M. Walking toy horse. No. 1,337,479; Apr. 20; v. 273; p. 470.

Lorenzen, Charles F., Oak Park, Ill. Toy building and design block. No. 1,337,664; Apr. 20; v. 273; p. 506.

Lowdermilk, Alfred J., Mount Gilead, N. C. Sectional boat. No. 1,337,781; Apr. 20; v. 273; p. 528.

Lowe, Dempsey, Akron, Ohio. Tire-tube-making apparatus. No. 1,337,930; Apr. 20; v. 273; p. 557.

Luellen, Lawrence W. (See Hammond, W. P., and Luellen.)

Luellen, Lawrence W., Mountain Lakes, N. J., assignor, by mesne assignments, to Individual Drinking Cup Company. Cup-dispenser. No. 1,337,843; Apr. 20; v. 273; p. 540.

Lundell, Alben E., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Machine-switching telephone-exchange system. No. 1,337,710; Apr. 20; v. 273; p. 515.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,711; Apr. 20; v. 273; p. 515.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,712; Apr. 20; v. 273; p. 515.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,782; Apr. 20; v. 273; p. 528.

Lyon, Horace K., Tulsa, Okla. Apparatus for producing sulfur dioxid. No. 1,337,561; Apr. 20; v. 273; p. 486.

McAllaster, George R., Rochester, N. Y. Folding bed. No. 1,337,321; Apr. 20; v. 273; p. 441.

McAllister, Albert, assignor to Aspromet Company, Pittsburgh, Pa. Sash-operating mechanism. No. 1,337,461; Apr. 20; v. 273; p. 467.

McAlpine, George L., Catford, assignor to J. J. Griffin & Sons, Limited, Holborn, England. Firing mechanism for shells and other explosive missiles. No. 1,337,525; Apr. 20; v. 273; p. 480.

McCaleb, Walter F., Dallas, Tex. Combined adding and listing machine. No. 1,337,844; Apr. 20; v. 273; p. 540.

McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Means for lubricating machine-tools. No. 1,337,931; Apr. 20; v. 273; p. 557.

McClellan, Curtis D., and J. Flynn, Washington, Iowa. Figured toy. No. 1,337,932; Apr. 20; v. 273; p. 557.

McColl, Francis P., Ridgewood, N. J., and W. W. Willson, assignors to Thermokept Products Corporation, New York, N. Y. Can. No. 1,337,526; Apr. 20; v. 273; p. 480.

McCord, Alvin C., Chicago, Ill. Journal-box. No. 1,337,238; Apr. 30; v. 273; p. 425.

McCormack, Harry, assignor to Research Laboratory of Chicago, Chicago, Ill. Making manganates. No. 1,337,239; Apr. 20; v. 273; p. 425.

McCreary, James H. (See Babcock, H. C., and McCreary.)

McCraig, Duncan H., Wahkon, Minn. Antikicker for cows. No. 1,337,406; Apr. 20; v. 273; p. 457.

McCullough, William T., Pittsburgh, Pa. Signaling torpedo. No. 1,337,240; Apr. 20; v. 273; p. 426.

McGeouch, William P., Arlington, and G. C. Beckwith, Somerville, assignors to Boston Woven Hose & Rubber Co., Boston, Mass. Apparatus for forming cartons or boxes. No. 1,337,845; Apr. 20; v. 273; p. 540.

McGuckin, John J., Brooklyn, assignor to Stevens & Company, New York, N. Y. Bicycle-crank. No. 1,337,765; Apr. 20; v. 273; p. 525.

McLeod, John H., Topeka, Kans. Road-machine. No. 1,337,241; Apr. 20; v. 273; p. 426.

McMurry, Fred R., Westwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling mechanism. No. 1,337,783; Apr. 20; v. 273; p. 529.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,713; Apr. 20; v. 273; p. 515.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,337,714; Apr. 20; v. 273; p. 516.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,715; Apr. 20; v. 273; p. 516.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,337,784; Apr. 20; v. 273; p. 529.

Macé, Jules, Grasse, France. Safety keyless lock. No. 1,337,242; Apr. 20; v. 273; p. 426.

Macé, Jules, Grasse, France. Dial. No. 1,337,243; Apr. 20; v. 273; p. 426.

Machlet, Adolph W., Elizabeth, N. J. Apparatus for case-hardening, &c. No. 1,337,244; Apr. 20; v. 273; p. 426.

Mackay, George M. J., Schenectady, N. Y., assignor to General Electric Company. Electric oscillator. No. 1,337,933; Apr. 20; v. 273; p. 558.

MacKenzie, Chester M. (See Herman, S. J., and MacKenzie.)

Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass. Reheating process for condensers. No. 1,337,245; Apr. 20; v. 273; p. 427.

Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass. Building-stand for condensers. No. 1,337,246; Apr. 20; v. 273; p. 427.

Maddox, Robert D., U. S. Army. Mixing and grinding apparatus irregularly operated. No. 1,337,716; Apr. 20; v. 273; p. 516.

Madison, Arthur E., Redlands, Calif. Marble-shooter. No. 1,337,934; Apr. 20; v. 273; p. 558.

Madison, Mart J., assignor to Weir Frog Company, Norwood, Ohio. Rail-bolt. No. 1,337,365; Apr. 20; v. 273; p. 449.

Maier, Clarence J., Dayton, Ohio. Means for controlling the flow of water through hose. No. 1,337,247; Apr. 20; v. 273; p. 427.

Mancha, Raymond, assignor to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Storage-battery locomotive. No. 1,337,610; Apr. 20; v. 273; p. 495.

Mancha Storage Battery Locomotive Company. (See Mancha, Raymond, assignor.)

Mann, George W., Pierce City, Mo. Pressure-regulator. No. 1,337,248; Apr. 20; v. 273; p. 427.

Marcil, Henri E., Montreal, Quebec, Canada. Bottle. No. 1,337,979; Apr. 20; v. 273; p. 567.

Margotta, Horace, Scranton, Pa. Railway signal system. No. 1,337,935; Apr. 20; v. 273; p. 558.

Marlin-Rockwell Corporation, The. (See Rockwell, Hugh M., assignor.)

Marshall, John W., Butte, Mont. Pulley-attachment device. No. 1,337,249; Apr. 20; v. 273; p. 427.

Marshall, Ward E., near Brookville, Ohio. Cultivator. No. 1,337,407; Apr. 20; v. 273; p. 457.

Martin, Albert W., Indianapolis, and J. N. Martin, Beech Grove, Ind. Grease-cup. No. 1,337,717; Apr. 20; v. 273; p. 516.

Martin, Jacob N. (See Martin, Albert W. and J. N.)

Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire party-line lockout telephone system. (Reissue.) No. 14,846; Apr. 20; v. 273; p. 569.

Martindale, Perry D., Pontiac, Mich. Ironing-board. No. 1,337,936; Apr. 20; v. 273; p. 558.

Marulli, Ernesto C., Holyoke, Mass. Valve. No. 1,337,462; Apr. 20; v. 273; p. 467.

Marvel Machinery Company. (See De Forest, Edgar A., assignor.)

Mason, Summer R., assignor to Western Electric Company, Incorporated, New York, N. Y. Cleansing ferrous and non-ferrous metals. No. 1,337,718; Apr. 20; v. 273; p. 516.

Mathias, George V., Humboldt, Kans. Chain-coupling. No. 1,337,846; Apr. 20; v. 273; p. 541.

Matthaei, Lillian M., New York, N. Y. Bodkin. No. 1,337,480; Apr. 20; v. 273; p. 471.

Mattis, John M., Sioux City, Iowa. Workbench, crane, and engine-stand, combined. No. 1,337,847; Apr. 20; v. 273; p. 541.

Maune, Ervin H., *et al.* (See Wertz, T., and Springmeyer, assignors.)

Maxwell, Annie L., Waco, Tex. Device for teaching music. No. 1,337,937; Apr. 20; v. 273; p. 558.

Megnerditchian, Hairabed M., Green Island, N. Y. Apparatus for raising sunken vessels. No. 1,337,250; Apr. 20; v. 273; p. 427.

Melrose, George C., Redondo Beach, and H. W., Glendale, Calif. Silent railway-crossing. No. 1,337,527; Apr. 20; v. 273; p. 480.

Melrose, Herman W. (See Melrose, George C., and H. W.)

Mendenhall, John J., Raiford, Fla. Valve for chambered heat-insulating walls. No. 1,337,611; Apr. 20; v. 273; p. 496.

Merrian, Cyrus B., Detroit, Mich. Fastener. No. 1,337,938; Apr. 20; v. 273; p. 558.

Mica Condenser Company. (See Macpherson, Byron, assignor.)

Midgley, Thomas, Jr., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. Circuit-breaker. No. 1,337,366; Apr. 20; v. 273; p. 449.

Miller, Arthur E., Sacramento, Calif. Protector for books. No. 1,337,612; Apr. 20; v. 273; p. 496.

Miller, Charles A., assignor to Worcester Metal Goods Company, Waterbury, Conn. Separable fastener. No. 1,337,785; Apr. 20; v. 273; p. 529.

Miller, George F., New York, N. Y. Filter-press frame. No. 1,337,251; Apr. 20; v. 273; p. 428.

Miller, Jeremiah, Ottawa, W. Va. Combined fork, rake, and knife. No. 1,337,939; Apr. 20; v. 273; p. 559.

Miller, Joseph B. (See Jeffries, Oscar S., Sr., assignor.)

Miller Train Control Corporation, The. (See Murray, William B., assignor.)

Mills, George E., Watertown, Mass. Circuit-closer for liquid-level indicators. No. 1,337,252; Apr. 20; v. 273; p. 428.

Minerals Separation North American Corporation. (See Edser, E., and Tucker, assignors.)

Mining Safety Device Company, The. (See Nolan, James A., assignor.)

Minville, H. R. (See Toups, Wilson, assignor.)

Mitchell, William A., East St. Louis, Ill. Draft-regulating device. No. 1,337,786; Apr. 20; v. 273; p. 529.

Moest, Martin, Höchst-on-the-Main, and E. Schirm, Unterliederbach, near Höchst-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of organic acids and acid anhydrids. No. 1,337,253; Apr. 20; v. 273; p. 428.

Montague Iron Works Corporation. (See Ewen, Malcolm F., assignor.)

Montague, Merrell S., assignor of one-half to J. W. Jones, Rigby, Idaho. Beet-harvester. No. 1,337,481; Apr. 20; v. 273; p. 471.

Moore, William J. P., New York, N. Y. Electrical control mechanism for automobiles and other vehicles and machines. No. 1,337,613; Apr. 273; p. 496.

Morales, George. (See Guyer, J., and Morales.)

Morey, Charles C., Great Falls, Mont. Filling-tool. No. 1,337,940; Apr. 20; v. 273; p. 559.

Morgan & Wright. (See Willenweber, Ernest A., assignor.)

Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-wheel suspension for track-laying tractors. No. 1,337,787; Apr. 20; v. 273; p. 529.

Morgan, William J., assignor of one-half to L. Hubsman, Peckville, Pa. Coin-wrapper. No. 1,337,941; Apr. 20; v. 273; p. 559.

Morris, William L., Chicago, Ill. Lubricant cleaning and replenishing system for automobiles. No. 1,337,408; Apr. 20; v. 273; p. 457.

Mosher, Lillian R. (See Rider, Edward A., assignor.)

Mossberg, Frank, Company. (See Tuttle, Walter L., assignor.)

Motala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)

Mott, Samuel D., Passaic, N. J. Airman's life-preserver. No. 1,337,788; Apr. 20; v. 273; p. 530.

Mousa, Oscar E., Fairbury, Ill. Implement for pushing and pulling. No. 1,337,719; Apr. 20; v. 273; p. 517.

Muench, Carl G., International Falls, Minn. Fiber plaster board and making same. No. 1,337,254; Apr. 20; v. 273; p. 428.

Murphy, Edwin J., and L. W. Thompson, Schenectady, N. Y., assignors to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,942; Apr. 20; v. 273; p. 559.

Murphy, Walter P. (See Sisson, Vinton E., assignor.)

Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-control system. No. 1,337,255; Apr. 20; v. 273; p. 429.

National Carbon Company. (See Gillingham, Charles A., assignor.)

National Equipment Company. (See Bausman, Alonzo L., assignor.)

National Machine Company. (See Weatherby, S. M., and Stach, assignors.)

Navy Gear Manufacturing Corporation, The. (See Petrelli, Joseph V., assignor.)

Nelson, Victor A. (See Hammontree, C. O., and Nelson.)

New York Belting & Packing Company. (See Somerville, Albert A., assignor.)

Nicholas, Eldridge, Charlestown, R. I. Condiment-container. No. 1,337,789; Apr. 20; v. 273; p. 530.

Nicholas Power Company. (See Power, Nicholas, assignor.)

Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive-boiler. No. 1,337,720; Apr. 20; v. 273; p. 517.

Nicholson, John W., Pasadena, Calif., and C. Fowler, Tompkins Cove, N. Y.; said Fowler assignor to said Nicholson. Weed-destroyer and ground-sterilizer. No. 1,337,562; Apr. 20; v. 273; p. 486.

Nickol, Frederick C., and C. H. Knowles, assignors to City Machine and Tool Works, a copartnership consisting of F. C. Nickol and O. M. Poock, Dayton, Ohio. Machine for forming armature-coils. No. 1,337,463; Apr. 20; v. 273; p. 467.

Nolan, James A., assignor to The Mining Safety Device Company, Bowerston, Ohio. Safety device for mines. No. 1,337,943; Apr. 20; v. 273; p. 559.

Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,337,944; Apr. 20; v. 273; p. 560.

Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,337,945; Apr. 20; v. 273; p. 560.

Nordmark, Henry P., assignor to Fox Typewriter Co., Grand Rapids, Mich. Typewriting-machine. No. 1,337,563; Apr. 20; v. 273; p. 486.

Norma Company of America, The. (See Bott, George R., assignor.)

Norman, Frederick D., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism. No. 1,337,322; Apr. 20; v. 273; p. 441.

Norsk Alkali A/S. (See Riiber, Claus N., assignor.)

North, James H., Blackwood, N. J. Tire-filler. No. 1,337,528; Apr. 20; v. 273; p. 480.

O'Brien, Henry G., Warren, Ohio. Rolling-mill shearing and piling apparatus. No. 1,337,464; Apr. 20; v. 273; p. 468.

O'Brien, Willis H., and D. Sinkel, Chicago, Ill.; said O'Brien assignor to said Sinkel. Film-holder. No. 1,337,614; Apr. 20; v. 273; p. 496.

Ochs, George F., Newark, N. J. Airship. No. 1,337,409; Apr. 20; v. 273; p. 458.

O'Connell, Thomas J., Flint, Mich. Device for pouring joints. No. 1,337,256; Apr. 20; v. 273; p. 429.

Oden, Clyde. (See Eklundh, J. G. G., Oden, and Schmitt.)

Ohlson, Olof, West Newton, Mass. Device for forming filaments. No. 1,337,258; Apr. 20; v. 273; p. 429.

Ohnell, Ernst J. (See Olhovsky, Vladimir, assignor.)

Ojczyk, Walter, Cleveland, Ohio. Shade and curtain fixture. No. 1,337,615; Apr. 20; v. 273; p. 496.

Olhovsky, Vladimir, assignor to E. J. Ohnell, New York, N. Y. Tool for bending wire. No. 1,337,616; Apr. 20; v. 273; p. 497.

Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Machine for hardening plates. No. 1,337,465; Apr. 20; v. 273; p. 468.

Olson, Jorgen, Cashton, Wis. Double-seaming stake. No. 1,337,466; Apr. 20; v. 273; p. 468.

O'Neill, Paul J., Detroit, Mich. Motorcycle. No. 1,337,946; Apr. 20; v. 273; p. 560.

Orem, Frederick S., Baltimore, Md. Air-strainer. No. 1,337,564; Apr. 20; v. 273; p. 487.

O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,337,257; Apr. 20; v. 273; p. 429.

Osgood Bradley Car Company. (See Turner, Charles H., assignor.)

Ostenberg, Pontus, Los Gatos, Calif. Generating power by internal combustion. No. 1,337,323; Apr. 20; v. 273; p. 442.

O'Toole, William, Lorain, Ohio. Signal-post. No. 1,337,947; Apr. 20; v. 273; p. 560.

Otto, Arthur J., assignor to Johnson Service Company, Milwaukee, Wis. High-temperature thermostat. No. 1,337,367; Apr. 20; v. 273; p. 450.

Otto, Arthur J., Milwaukee, Wis. Thermostat. No. 1,337,529; Apr. 20; v. 273; p. 480.

Pachali, Theodor, Sr., Reading, Pa. Rupture-pad. No. 1,337,790; Apr. 20; v. 273; p. 530.

Page, Arthur A., New York, N. Y. Tracking device. No. 1,337,530; Apr. 20; v. 273; p. 481.

Pain, William, Little Rock, assignor of one-third to D. Roppo, Seattle, and one-third to J. E. Waldrip, Olympia, Wash. Ribbon-inking attachment for typewriters. No. 1,337,980; Apr. 20; v. 273; p. 567.

Paper Products Machine Company. (See Howard, Charles H., assignor.)

Parker, Henry R., Norristown, Pa. Needle-loom. No. 1,337,259; Apr. 20; v. 273; p. 429.

Parkins, John G., Rorer, W. Va. Pane-fastener. No. 1,337,565; Apr. 20; v. 273; p. 487.

Parr, Frank L., Huntington, W. Va. Automatic checking and stopping apparatus for cars. No. 1,337,948; Apr. 20; v. 273; p. 561.

Parr, Samuel W. (See Broderson, H. J., and Parr.)

Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Lid-supporting device. No. 1,337,791; Apr. 20; v. 273; p. 530.

Pauk, Henry E., St. Louis, Mo. Fabric-measuring machine. No. 1,337,260; Apr. 20, v. 273; p. 429.

Pearson, Bigalo M., Greenville, Miss. Car-door lock and release. No. 1,337,261; Apr. 20; v. 273; p. 429.

Pearsons, George T., New York, N. Y. Syringe. No. 1,337,467; Apr. 20; v. 273; p. 468.

Peas, Walter J., Meadville, assignor to Blystone Manufacturing Company, Cambridge Springs, Pa. Mixer. No. 1,337,468; Apr. 20; v. 273; p. 469.

Pendziwiater, Wawrzyniec, Philadelphia, Pa. Direction-indicator for dirigible vehicles. No. 1,337,848; Apr. 20; v. 273; p. 541.

Perene, H. B. (See Watkins, William F., assignor.)

Perkins, Harry J., Grand Rapids, Mich. Grinding-machine. No. 1,337,617; Apr. 20; v. 273; p. 497.

Peters, Edward A., and J. T. Welhoefer, assignors to Drew Carrier Company, Waterloo, Wis. Hogpen. No. 1,337,262; Apr. 20; v. 273; p. 430.

Petey, Louis F., Rhinelander, Wis. Tire-protector. No. 1,337,950; Apr. 20; v. 273; p. 561.

Petrelli, Joseph V., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn. Reversing mechanism. No. 1,337,531; Apr. 20; v. 273; p. 481.

Petrovics, Fred J., Chicago, Ill. Electric fuse. No. 1,337,949; Apr. 20; v. 273; p. 561.

Pfanstiehl, Carl, Highland Park, Ill., assignor to Special Chemicals Company. Metamorphous sal ammoniac, (ammonium chlorid.) No. 1,337,665; Apr. 20; v. 273; p. 506.

Pfeifer, Adolph, Chicago, Ill. Hair-cutter. No. 1,337,263; Apr. 20; v. 273; p. 430.

Philips-Brinton Company. (See Brinton, William C., Jr., assignor.)

Pierce, Raymond C., Hornell, N. Y. Flash-gun. No. 1,337,566; Apr. 20; v. 273; p. 487.

Pinkerton, Edward E., assignor of one-half to C. H. Hudson, Chicago, Ill. Folding box. No. 1,337,368; Apr. 20; v. 273; p. 450.

Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Plaster-block machine. No. 1,337,618; Apr. 20; v. 273; p. 497.

Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Powder-handling machine. No. 1,337,619; Apr. 20; v. 273; p. 497.

Piper, Alonzo E., White City, Fla. Weeding-machine. No. 1,337,721; Apr. 20; v. 273; p. 517.

Piper, Walter F. (See Beardsley, E. O., and Piper.)

Pittsburgh Gage & Supply Company. (See Freed, George F., assignor.)

Pittsburgh Garbage Incineration Co. (See Roberts, Albert J., assignor.)

Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,337,469; Apr. 20; v. 273; p. 469.

Platt, Henry. (See Platt, John, W., and H.)

Platt, John, Harrow, England, and W. and H. Platt, Roubaix, France. Drum or cylinder of carding-engines and the like. No. 1,337,470; Apr. 20; v. 273; p. 469.

Platt, William. (See Platt, John, W., and H.)

Plym, Francis J., assignor to Kawneer Manufacturing Company, Niles, Mich. Aeroplane-wing construction. No. 1,337,951; Apr. 20; v. 273; p. 561.

Podszus, Emil, Treptow, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making solid bodies from nitrids. No. 1,337,264; Apr. 20; v. 273; p. 430.

Poehland, Bernhard, Woodhaven, N. Y. Fastener for tailpieces of musical instruments. No. 1,337,793; Apr. 20; v. 273; p. 530.

Polaski, Henry P., assignor to The Four-Drive Tractor Company, Inc., Big Rapids, Mich. Tractor driving-gearing. No. 1,337,369; Apr. 20; v. 273; p. 450.

Popkess, Michael A., Kansas City, Mo., assignor to Bituminized Road Company. Machine for treating earthy material. No. 1,337,953; Apr. 20; v. 273; p. 561.

Popp, Jonas L. T., Niagara Falls, N. Y. Mixing valve or faucet. No. 1,337,952; Apr. 20; v. 273; p. 561.

Porter, Robert L., Chicago, Ill. Baggage-check. No. 1,337,722; Apr. 20; v. 273; p. 517.

Poser, Max., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic-test-lens frame. No. 1,337,265; Apr. 20; v. 273; p. 430.

Post, Claude L., Chicago, Ill. Envelop feeding and handling device. No. 1,337,266; Apr. 20; v. 273; p. 431.

Potts, Charles W., Kellerton, Iowa. Door-controlling device. No. 1,337,954; Apr. 20; v. 273; p. 562.

Powell, Winfred T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,337,324; Apr. 20; v. 273; p. 442.

Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Stand for moving-picture machines. No. 1,337,267; Apr. 20; v. 273; p. 431.

Power, Patrick M. (See Edman, John, assignor.)

Prangnell, Norman W. (See Ewart, Samuel and J. W., and Prangnell.)

Prince, Clarence K., Westfield, Mass. Mold-handling machine. No. 1,337,268; Apr. 20; v. 273; p. 431.

Printing Trades Manufacturing Company. (See Holmes, Edgar L., assignor.)

Prizma, Incorporated. (See Kelley, William V. D., assignor.)

Pukt, Albert J., Boston, Mass. Curtain and shade frame. No. 1,337,370; Apr. 20; v. 273; p. 450.

Punzelt, Edward E., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Food-cutter. No. 1,337,955; Apr. 20; v. 273; p. 562.

Q. R. S. Music Company, The. (See Clark, E. G., assignor.)

Raffel, Ferdinand A., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Hydrocarbon-lamp. No. 1,337,620; Apr. 20; v. 273; p. 497.

Rahm, Robert C., Wyomissing, Pa. Braiding-machine. No. 1,337,269; Apr. 20; v. 273; p. 431.

Rahm, Robert C., Wyomissing, Pa. Drive and stop mechanism for braiding-machines. No. 1,337,270; Apr. 20; v. 273; p. 431.

Raiko Products Company, The. (See Kopf, Melrose G., assignor.)

Randall, Herman P. (See Shannon, S. Q., and Randall.)

Randall, Victor E., assignor of one-half to B. Gwatkin, Battle Creek, Mich. Rail-seat holder. No. 1,337,621; Apr. 20; v. 273; p. 498.

Rashell, Edward A., assignor of one-half to W. L. Smart, Lamasco, Tex. Mail-transferring apparatus. No. 1,337,956; Apr. 20; v. 273; p. 562.

Rasmussen, William R., Los Angeles, Calif. Finger-guard. No. 1,337,957; Apr. 20; v. 273; p. 562.

Reach, William F., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Golf-club. No. 1,337,958; Apr. 20; v. 273; p. 562.

Reckers, William A., *et al.* (See Word, John B., assignor.)

Reese, Charles N., Wilmette, Ill. Vacuum suction-plate. No. 1,337,622; Apr. 20; v. 273; p. 498.

Reese, Louis C., Saginaw, Mich. Apparatus for determining the specific gravity of doughs, pastes, and the like. No. 1,337,410; Apr. 20; v. 273; p. 458.

Reeves, Frank N., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric signaling system. No. 1,337,482; Apr. 20; v. 273; p. 471.

Regnier, Wilfred L., Dayton, Ohio. Detachable wheel. No. 1,337,271; Apr. 20; v. 273; p. 432.

Reich, Ernest, assignor to Hill Pump Valve Company, Chicago, Ill. Seal. No. 1,337,985; Apr. 20; v. 273; p. 568.

Remalia, Arthur J., Warren, Ohio. Stepladder. No. 1,337,666; Apr. 20; v. 273; p. 506.

Rentz, William C., Atlanta, Ga. Spark-plug. No. 1,337,959; Apr. 20; v. 273; p. 562.

Research Corporation. (See Strong, William W., assignor.)

Research Laboratory of Chicago. (See McCormack, Harry, assignor.)

Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange apparatus. No. 1,337,325; Apr. 20; v. 273; p. 442.

Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,337,794; Apr. 20; v. 273; p. 530.

Reynolds, Mary J., St. Joseph, Mo. Hoisting and loading mechanism. No. 1,337,667; Apr. 20; v. 273; p. 506.

Rhodes, Charles J. (See Webb, T. H., and Rhodes.)

Rice, Nelson D., Yankee, N. Mex. Headlight-controlling mechanism. No. 1,337,849; Apr. 20; v. 273; p. 541.

Rice, Orrin, Los Angeles, Calif., assignor to U. S. Grant Hinton, Providence, R. I. Air-control mechanism for carburetors. No. 1,337,326; Apr. 20; v. 273; p. 442.

Richard Auto Mfg. Company, The. (See Richard, François, assignor.)

Richard, François, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Rear-axle construction. No. 1,337,411; Apr. 20; v. 273; p. 458.

Richards, Windsor L., Portland, Oreg. Quick-acting dust-cap for inflating valve-stems. No. 1,337,371; Apr. 20; v. 273; p. 451.

Richmond, Everett B., Hartford, Conn., assignor of one-half to W. V. Schnell, Weathersfield, Conn. Washtub. No. 1,337,272; Apr. 20; v. 273; p. 432.

Rider, Edward A., assignor of one-half to L. R. Mosher, Westbury, N. Y. Aero submarine torpedo. No. 1,337,960; Apr. 20; v. 273; p. 563.

Riiber, Claus N., assignor to Norsk Alkali A/S, Trondhjem, Norway. Electrolyzing apparatus. No. 1,337,724; Apr. 20; v. 273; p. 517.

Ringman, Andrew. (See Weeks, Frank E., assignor.)

Rishel, Arlington E., Seattle, Wash. Electric switch. No. 1,337,961; Apr. 20; v. 273; p. 563.

Risk, George A., Brooklyn, N. Y. Pencil and case. No. 1,337,412; Apr. 20; v. 273; p. 458.

Roberts, Albert J., assignor to Pittsburgh Garbage Incineration Co., Incorporated, Pittsburgh, Pa. Garbage-incinerator. No. 1,337,668; Apr. 20; v. 273; p. 506.

Roberts, Frank E., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,337,273; Apr. 20; v. 273; p. 432.

Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)

Robinson, Hugh G., Philadelphia, Pa. Resilient heelplate for shoes. No. 1,337,962; Apr. 20; v. 273; p. 563.

Robinson, Joseph C. (See Hodge, G. H., and Robinson.)

Rockwell, Hugh M., Bristol, Conn., assignor to The Marlin-Rockwell Corporation, New York, N. Y. Gun-mount. No. 1,337,327; Apr. 20; v. 273; p. 443.

Roirant, Emile, assignor to A. Wilzen, St.-Ouen, France. Glass shaping and blowing machine. No. 1,337,723; Apr. 20; v. 273; p. 517.

Rolfe, Alfred, Brockville, Ontario, Canada. Clip. No. 1,337,963; Apr. 20; v. 273; p. 563.

Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lantern-burner. No. 1,337,795; Apr. 20; v. 273; p. 531.

Romaniello, Leonard, Dunmore, Pa. Revolving toy. No. 1,337,483; Apr. 20; v. 273; p. 471.

Roppo, Dominic, *et al.* (See Pain, William, assignor.)

Rose, Isabell M., Leroy, Tex. Percolator. No. 1,337,964; Apr. 20; v. 273; p. 563.

Rosenberger, Charles B., Pittsburgh, Pa. Game-board. No. 1,337,274; Apr. 20; v. 273; p. 432.

Roth, Ernst, Nieder-Uzwil, Switzerland. Feeding device for grinding cylinder-mills. No. 1,337,567; Apr. 20; v. 273; p. 487.

Rugh, Harry O., Chicago, Ill. Relay system. No. 1,337,797; Apr. 20; v. 273; p. 531.

Ruiter, Vern L., Roseburg, Oreg. Therapeutic apparatus for treatment of the lower portion of the body. No. 1,337,798; Apr. 20; v. 273; p. 531.

Ruoff, John, assignor to Indiana Veneer and Panel Company, New Albany, Ind. Clamping device. No. 1,337,484; Apr. 20; v. 273; p. 471.

Ruoff, John, assignor to Indiana Veneer and Panel Company, New Albany, Ind. Round-top work. No. 1,337,485; Apr. 20; v. 273; p. 472.

Ruppel, Frederick C. (See Jacobs, G., and Ruppel.)

Russ, John U., Derby, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,337,965; Apr. 20; v. 273; p. 564.

Rutenber, Edwin A., assignor to Rutenber Electric Co., Marion, Ind. Electric heating unit. No. 1,337,725; Apr. 20; v. 273; p. 518.

Rutenber Electric Co. (See Rutenber, Edwin A., assignor.)

Ryder, Gilbert E., Leonia, N. J. Locomotive-firebox arch. No. 1,337,486; Apr. 20; v. 273; p. 472.

Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detector for looms. No. 1,337,726; Apr. 20; v. 273; p. 518.

Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Winding-machine. No. 1,337,727; Apr. 20; v. 273; p. 518.

Said, Jesse M., assignor to Corning Glass Works, Corning, N. Y. Burner for fire-polishing glassware. No. 1,337,328; Apr. 20; v. 273; p. 443.

Sands Manufacturing Company, The. (See Raffel, Ferdinand A., assignor.)

Sandt, Arthur R., C. F. Walz, and M. L. Stahl, Minneapolis, Minn. Platform and mud-guard. No. 1,337,275; Apr. 20; v. 273; p. 432.

Sargent & Company. (See Roberts, Frank E., assignor.)

Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)

Saurer, Firma Adolphe. (See Schlatter, Gustav, assignor.)

Schäfer, Max, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Distributer for high-tension igniting devices. No. 1,337,329; Apr. 20; v. 273; p. 443.

Schell, Charles F., Buffalo, N. Y. Signaling device. No. 1,337,669; Apr. 20; v. 273; p. 507.

Schenck, William A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-resistance alloy. No. 1,337,276; Apr. 20; v. 273; p. 433.

Schirm, Erik. (See Moest, M., and Schirm.)

Schlatter, Gustav, Steinach, assignor to Firma Adolphe Saurer, Arbon, Switzerland. Tower-wagon. No. 1,337,487; Apr. 20; v. 273; p. 472.

Schlesinger, M., Inc. (See Schlesinger, Morris, assignor.)

Schlesinger, Morris, assignor to M. Schlesinger, Inc., New York, N. Y. Bedstead corner-fastening. No. 1,337,799; Apr. 20; v. 273; p. 531.

Schmitt, John A. (See Eklundh, J. G. G., Oden, and Schmitt.)

Schmitt, Nicholas, Brooklyn, N. Y. Gas-stove. No. 1,337,413; Apr. 20; v. 273; p. 458.

Schneider, Jacques, and F. Billon, Solothurn, Switzerland. High-tension distributor for internal-combustion engines. No. 1,337,966; Apr. 20; v. 273; p. 564.

Schnell, Winfield V. (See Richmond, Everett B., assignor.)

Schneider, John L., *et al.* (See Hemmer, Frederick L., assignor.)

Schoen, Max, San Francisco, Calif. Toy gun. No. 1,337,967; Apr. 20; v. 273; p. 564.

Schroeder, Charles, Neillsville, Wis. Audible signaling device. No. 1,337,277; Apr. 20; v. 273; p. 433.

Schroeder, Jesse L., Erie, N. D. Machine for cutting up potatoes for planting. No. 1,337,968; Apr. 20; v. 273; p. 564.

Schulz, Gustav O., Revere, Mass. Vacuum-receptacle construction. No. 1,337,278; Apr. 20; v. 273; p. 433.

Schwab, Isaac M., Savannah, Ga. Spectacle-temple. No. 1,337,330; Apr. 20; v. 273; p. 443.

Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism. No. 1,337,331; Apr. 20; v. 273; p. 443.

Schweitzer, Edmund O. (See Herz, Alfred, assignor.) (Reissue.)

Scott, John M., assignor to M. E. Green Manufacturing Company, St. Louis, Mo. Cabinet for exhibiting eye-testing devices. No. 1,337,728; Apr. 20; v. 273; p. 518.

Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)

Scovill Manufacturing Company. (See Davis, Joseph K., assignor.)

Sefton Manufacturing Corporation. (See Clenny, J. E., and Wright, assignors.)

Selby, Bert, Indianapolis, Ind. Means for applying paste or the like to paper. No. 1,337,729; Apr. 20; v. 273; p. 518.

Sensibar, Jacob R., Gary, Ind. Method of and apparatus for collecting and delivering sand. No. 1,337,279; Apr. 20; v. 273; p. 433.

Severson, Thomas, assignor to Duluth Corrugating & Roofing Company, Duluth, Minn. Tank-heater. No. 1,337,800; Apr. 20; v. 273; p. 531.

Shannon, Baker L., Healton, Okla. Gas-burner. No. 1,337,801; Apr. 20; v. 273; p. 532.

Shannon, S. Q., Pasadena, and H. P. Randall, Los Angeles, Calif.; said Randall assignor to said Shannon. Automobile lock and traction device. No. 1,337,568; Apr. 20; v. 273; p. 487.

Shenk, Charles W., Company. (See Holloway, William M., assignor.)

Shorey, John A., New York, N. Y., assignor to General Electric Company. Apparatus for calibrating U-tubes for flow-meters and the like. No. 1,337,969; Apr. 20; v. 273; p. 564.

Shropshire, George W., Branch, and T. B., Peterpender, Ark. Spring-wheel. No. 1,337,569; Apr. 20; v. 273; p. 488.

Shropshire, Thomas B. (See Shropshire, George W., and T. B.)

Siakel, Daniel. (See O'Brien, W. H., and Siakel.)

Sibley, James T., Paterson, N. J. Mechanical starter for phonograph-motors. No. 1,337,280; Apr. 20; v. 273; p. 433.

Sills, Frederick R., Elmwood, assignor of one-half to Carolina Motor Company, Statesville, N. C. Power-shovel. No. 1,337,332; Apr. 20; v. 273; p. 443.

Simmons, Charles Shubrick, Norfolk, Va. Toy. No. 1,337,570; Apr. 20; v. 273; p. 488.

Simpson, Herbert S., Evanston, Ill. Foundry-mixer. No. 1,337,333; Apr. 20; v. 273; p. 444.

Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Reinforced-end structure for railway-cars. No. 1,337,281; Apr. 20; v. 273; p. 433.

Slawter, Ira Leon, Grand Prairie, Alberta, Canada. Automatic timer. No. 1,337,282; Apr. 20; v. 273; p. 434.

Sloan, William E., Chicago, Ill. Closet-seat. No. 1,337,730; Apr. 20; v. 273; p. 519.

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Storage-battery locomotive. No. 1,337,334; Apr. 20; v. 273; p. 444.

Smart, Rupert B., Chicago, Ill. Addressograph. No. 1,337,970; Apr. 20; v. 273; p. 565.

Smart, W. L. (See Rashell, Edward A., assignor.)

Smith Cannery Machines Co. (See Waugh, Edward H., assignor.)

Smith, Herbert J., Kearney, N. J., and E. P. Everett, Flushing, N. Y.; said Smith assignor to Everett Fibre Products Corporation. Die forming and trimming apparatus. No. 1,337,796; Apr. 20; v. 273; p. 531.

Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Timing apparatus. No. 1,337,335; Apr. 20; v. 273; p. 444.

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin-puller. No. 1,337,670; Apr. 20; v. 273; p. 507.

Smith, William I., Stockton, Kans. Railway-signal. No. 1,337,283; Apr. 20; v. 273; p. 434.

Somerville, Albert A., Flushing, N. Y., assignor to New York Belting & Packing Company. Artificial leather. No. 1,337,862; Apr. 20; v. 273; p. 532.

Sonneborn, Sol S., Brooklyn, N. Y. Twin-bar suspension-insulator. No. 1,337,284; Apr. 20; v. 273; p. 434.

Sorenson, John G. (See Bourdeau, Leon N., assignor.)

Sopcense, Mike, Soperton, Wis. Water-bicycle. No. 1,337,372; Apr. 20; v. 273; p. 451.

Spalding, A. G., & Bros. (See Reach, William F., assignor.)

Speaks, John A., Stella, Mo. Smoke-flue. No. 1,337,731; Apr. 20; v. 273; p. 519.

Specials Chemicals Company. (See Pfanstiehl, Carl, assignor.)

Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic selecting-switch. No. 1,337,285; Apr. 20; v. 273; p. 434.

Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,671; Apr. 20; v. 273; p. 507.

Springmeyer, Frederick W. (See Wertz, T., and Springmeyer.)

Stach, Howard J. (See Weatherly, S. M., and Stach.)
Stadig, Olof L., St. Francis, Me. Planing-machine. No. 1,337,286; Apr. 20; v. 273; p. 434.
Stahl, Michael L. (See Sandt, A. R., Walz, and Stahl.)
Stanley, Carroll M. (See Sweetland, E. J., and Stanley.)
Stanley, Jean J., Port Chester, N. Y. Plant-support. No. 1,337,803; Apr. 20; v. 273; p. 532.
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stanson, Ernest J., Antigo, Wis. Vegetable-peeler. No. 1,337,414; Apr. 20; v. 273; p. 459.
Staso Laminated Slate Company. (See Cooke, Arthur B., assignor.)
Steele, Harney G., Johnstown, Pa. Auxiliary traction-wheel for motor-vehicles. No. 1,337,672; Apr. 20; v. 273; p. 507.
Steinschneider, Leo, Brünn, Austria, assignor, by mesne assignments, to The Chemical Foundations, Inc. Preheater for use in the chemical industry, especially for use in the petroleum tar and the like industry. No. 1,337,287; Apr. 20; v. 273; p. 435.
Stephenson, Axel G., Denver, Colo. Thermostat. No. 1,337,623; Apr. 20; v. 273; p. 498.
Stevens & Company. (See McGuckin, John J., assignor.)
Stichler, Charles, assignor, to Strause Gas Iron Co., Philadelphia, Pa. Gas-fixture and fuel-hose therefor. No. 1,337,288; Apr. 20; v. 273; p. 435.
Stokes, Russell C., Portland, Oreg. Sand-mixing machine. No. 1,337,373; Apr. 20; v. 273; p. 451.
Stokes, Samuel J., Kansas City, Mo. Hoof-trimming machine. No. 1,337,571; Apr. 20; v. 273; p. 488.
Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic gearing. No. 1,337,732; Apr. 20; v. 273; p. 519.
Straus, Alexander L., assignor to The Baltimore Process Company, Baltimore, Md. Non-alcoholic beverage. No. 1,337,850; Apr. 20; v. 273; p. 541.
Strause Gas Iron Co. (See Stichler, Charles, assignor.)
Strauss, Ferdinand, Inc. (See Irenius, Joseph V., assignor.)
Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Regulating the velocity of fumes passing through electrical precipitators. No. 1,337,488; Apr. 20; v. 273; p. 472.
Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Regulating the velocity of fumes passing through electrical precipitators. No. 1,337,489; Apr. 20; v. 273; p. 472.
Stuart, Charles J., New Haven, Conn., assignor to L. Candee & Company. Pneumatic shoe-press. No. 1,337,532; Apr. 20; v. 273; p. 481.
Summers, John G., San Diego, Calif. Tire. No. 1,337,289; Apr. 20; v. 273; p. 435.
Sumner, Charles M., *et al.* (See Word, John B., assignor.)
Sumner, William, Liverpool, England. Apparatus for filling explosive material into shells or other receptacles. No. 1,337,490; Apr. 20; v. 273; p. 473.
Svenska Turbinfabriks Aktiebolaget Ljungström. (See Wiberg, O. A., and Karlson, assignors.)
Svenson, Charles W., assignor to American Hardware Corporation, New Britain, Conn. Coaster-brake. No. 1,337,624; Apr. 20; v. 273; p. 498.
Swanson, Swan A., Kellettville, Pa. Railway-rail fastening. No. 1,337,851; Apr. 20; v. 273; p. 541.
Sweetland, Ernest J., Montclair, and C. M. Stanley, Newark, N. J., assignor to United Filters Corporation, Brooklyn, N. Y. Filter-casing. No. 1,337,733; Apr. 20; v. 273; p. 519.
Swift, George W., Jr., Bordentown, N. J. Mechanism for making open-face envelops. No. 1,337,734; Apr. 20; v. 273; p. 519.
Swift, George W., Jr., Bordentown, N. J. Making open-face envelops. No. 1,337,735; Apr. 20; v. 273; p. 520.
Szuba, Stanislaw, Elizabeth, N. J. Soap-holder. No. 1,337,852; Apr. 20; v. 273; p. 541.
Taber, George H., Binghamton, N. Y. Spark-gap-controlling device. No. 1,337,853; Apr. 20; v. 273; p. 542.
Tarras, Harry M., assignor of one-half to R. J. Gaskin, Toronto, Ontario, Canada. Refrigerator. No. 1,337,625; Apr. 20; v. 273; p. 498.
Tattu, Radu, Brooklyn, N. Y. Corner-joint for bedsteads and the like. No. 1,337,626; Apr. 20; v. 273; p. 498.
Tattu, Radu, Brooklyn, N. Y. Corner for bedsteads. No. 1,337,627; Apr. 20; v. 273; p. 499.
Taylor, Eugene H., deceased, Hyde Park, Mass.; George A. Taylor, administrator. Machine for making insoles. No. 1,337,290; Apr. 20; v. 273; p. 435.
Taylor, George A., administrator. (See Taylor, Eugene H.)
Taylor, William E., East Orange, N. J., assignor to American Can Company. Hermetically-sealed receptacle. No. 1,337,491; Apr. 20; v. 273; p. 473.
Teagle Company, The. (See Whitcomb, Fred J., assignor.)
Teller, John D., Henderson, Tex. Shock-absorber and axle-reinforcement. No. 1,337,291; Apr. 20; v. 273; p. 435.
Terrell, Kendel J., Hushpuckena, Miss. Entrance and exit car for trains. No. 1,337,492; Apr. 20; v. 273; p. 473.
Theimer, Max. (See Thum, G. E., and Theimer.)
Thermokept Products Corporation. (See McColl, F. P., and Willison, assignors.)
Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator. No. 1,337,415; Apr. 20; v. 273; p. 459.
Thomas, William G., West Pittston, Pa. Automobile-signal. No. 1,337,572; Apr. 20; v. 273; p. 488.
Thompson, Louis W. (See Murphy, E. J., and Thompson.)
Thompson, Louis W., Schenectday, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,854; Apr. 20; v. 273; p. 542.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,855; Apr. 20; v. 273; p. 542.
Thomson, William E., assignor of one-half to A. C. Baldwin, Jacksonville, Ill. Scraper for clothes-brushes. No. 1,337,856; Apr. 20; v. 273; p. 542.
Thornburgh Manufacturing Company, The. (See Babcock, H. C., and McCreary, assignors.)
Thorpe, Samuel T., assignor to The Horton Manufacturing Company, Bristol, Conn. Fishline-reel. No. 1,337,857; Apr. 20; v. 273; p. 543.
Thum, George E., and M. Theimer, Elizabeth, N. J. Telephone-booth controller. No. 1,337,858; Apr. 20; v. 273; p. 543.
Timmons, Edward J., St. Louis, Mo. Light attachment for fishing-tackle. No. 1,337,292; Apr. 20; v. 273; p. 436.
Tipton, Clint B., Tiptonville, Tenn. Cotton-picker's sack. No. 1,337,859; Apr. 20; v. 273; p. 543.
Topheim Oil Tank and Pump Company. (See Eilers, Frank, assignor.)
Torris Wold & Company. (See Cameron, William, assignor.)
Toups, Wilson, assignor of one-half to H. R. Mluvielle, Jeanerette, La. Device for setting the shafts of saw-grinding machines. No. 1,337,293; Apr. 20; v. 273; p. 436.
Townsend, John R., South Bend, Ind. Electric switch. No. 1,337,628; Apr. 20; v. 273; p. 499.
Townsley, Frederick A., Jersey City, N. J., assignor of one-half to T. Watts, Middletown, N. Y. Life-saving device for aeroplanes. No. 1,337,336; Apr. 20; v. 273; p. 444.
Towson, Morris S., and C. E. Cochran, Cleveland, Ohio. Industrial truck. No. 1,337,804; Apr. 20; v. 273; p. 532.
Tree, James N., Detroit, Minn. Bolster extension. No. 1,337,416; Apr. 20; v. 273; p. 459.
Trolle, Louis, assignor to American Metal Shoe Company, Racine, Wis. Footwear. No. 1,337,983; Apr. 20; v. 273; p. 567.
Troy Carriage Sunshade Company, The. (See Dillingham, Frederick A., assignor.)
Trumble, Milon J., Alhambra, Calif. Power-generator. No. 1,337,533; Apr. 20; v. 273; p. 481.
Tucker & Banner. (See Tucker, Philip J., assignor.)
Tucker, Philip J., assignor to Tucker & Banner, Hartford, Conn. Radiator. No. 1,337,337; Apr. 20; v. 273; p. 444.
Tucker, Stanley. (See Edser, E., and Tucker.)
Türck, Eugen, Langerfield, near Barmen, Germany, assignor, by mesne assignments, to the American Fabrics Company, Bridgeport, Conn. Lace with gauze-like ground made on single-thread machines. No. 1,337,294; Apr. 20; v. 273; p. 436.
Turner, Charles H., Worcester, Mass., assignor to Osgood Bradley Car Company. Cart-seat. No. 1,337,295; Apr. 20; v. 273; p. 436.
Turney, Lee L., Evansville, Ind. Internal-combustion engine. No. 1,337,417; Apr. 20; v. 273; p. 459.
Turrene, John C., Dayton, Ohio. Ventilator. No. 1,337,296; Apr. 20; v. 273; p. 436.
Tuttle, Walter L., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Reel construction and handling webs. No. 1,337,418; Apr. 20; v. 273; p. 459.
Uglow, Lenoard V., Benton, Iowa. Chain-tightener device. No. 1,337,534; Apr. 20; v. 273; p. 482.
Ullman, Louis, New York, N. Y. Egg-beater. No. 1,337,860; Apr. 20; v. 273; p. 543.
Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,297; Apr. 20; v. 273; p. 437.
Underwood, Lois M., Dayton, Ohio. Furnace gas-producer. No. 1,337,298; Apr. 20; v. 273; p. 437.
United Filter Corporation. (See Sweetland, E. J., and Stanley, assignors.)
United Shoe Machinery Corporation. (See Bastable, Edward H., assignor.)
United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Horgan, Patrick J., assignor.)
Universal Milking Machine Company, The. (See Eklundh, J. G. G., Oden, and Schmitt, assignors.)
Universal Planer Company. (See Forward, Frank L., assignor.)
Vail, Nathan R., and W. B. Coberly, Los Angeles, Calif. Apparatus for packing food products. No. 1,337,374; Apr. 20; v. 273; p. 451.
Van Amstel, Tudor, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,736; Apr. 20; v. 273; p. 520.

Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Producing currents of desired wave form. No. 1,337,737; Apr. 20; v. 273; p. 520.
Varney, Albert I., New Hampton, N. H. Chain-lock. No. 1,337,419; Apr. 20; v. 273; p. 459.
Ventilator Fan Co., The. (See Kohn, Milton M., assignor.)
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vogel, Eugene W., Oak Park, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Annunciator. No. 1,337,299; Apr. 20; v. 273; p. 437.
Volk, Magnus, Brighton, England. Apparatus for transferring bedsteads and occupants from place to place. No. 1,337,861; Apr. 20; v. 273; p. 543.
Volz, Alexander F., Jr., St. Louis, Mo. Method and apparatus for forming monolithic structures. No. 1,337,493; Apr. 20; v. 273; p. 473.
Von Dorrt, Karl H. V., Stocksund, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Feeding device for pulverous fuel in furnaces for locomotives and the like. No. 1,337,738; Apr. 20; v. 273; p. 520.
Vulcan Soot Cleaner Company. (See Dornbrook, Fred L., assignor.)
Wade, James T., Brady, Tex. Rail-fastener. No. 1,337,862; Apr. 20; v. 273; p. 544.
Waggoner, Jacob E., assignor to Halftime Cooker Company, Chicago, Ill. Pressure-cooker. No. 1,337,981; Apr. 20; v. 273; p. 567.
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Waldrip, Julia E., *et al.* (See Pain, William, assignor.)
Walker, George W., Far Rockaway, N. Y. Mechanical toy horse. No. 1,337,300; Apr. 20; v. 273; p. 437.
Wall, Edward J., Syracuse, N. Y., assignor to Kalmus Comstock & Wescott, Incorporated, Boston, Mass. Dye recovery. No. 1,337,673; Apr. 20; v. 273; p. 507.
Wallace, Robert W., Montesano, Wash. Mowing-machine attachment. No. 1,337,863; Apr. 20; v. 273; p. 544.
Wallis, James T., Altoona, Pa. Lubricator. No. 1,337,494; Apr. 20; v. 273; p. 473.
Walter, John M., Calumet, Mich. Permutation-padlock. No. 1,337,674; Apr. 20; v. 273; p. 508.
Waltke, Wm., & Co. (See Jones, Robert F., assignor.)
Walz, Carl F. (See Sandt, A. R., Walz, and Stahl.)
Warburton, Frank G., Manchester, England. Controlling means for electric motors. No. 1,337,573; Apr. 20; v. 273; p. 488.
Watkins, William F., assignor of one-half to H. B. Perene, Seattle, Wash. Rapid-fire gun. No. 1,337,971; Apr. 20; v. 273; p. 565.
Watts, Thomas. (See Townsley, Frederick A., assignor.)
Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Belly-finning head for fish-cleaning machines. No. 1,337,375; Apr. 20; v. 273; p. 452.
Weatherly, Sidney M., and H. J. Stach; said Stach assignor to National Machine Company, Hartford, Conn. Roller adjustment for printing-presses. No. 1,337,574; Apr. 20; v. 273; p. 488.
Webb, Frank A., Protection, Kans. Carbid controlling and dumping valve for acetylene-gas generators. No. 1,337,865; Apr. 20; v. 273; p. 532.
Webb, George S., Jr., Sidney, assignor to Julius Kayser & Co., New York, N. Y. Glove-pointing gage. No. 1,337,972; Apr. 20; v. 273; p. 565.
Webb, Thomas H., and C. J. Rhodes, Wakefield, England. Clamping device for shearing-machines. No. 1,337,675; Apr. 20; v. 273; p. 508.
Wecklaugh, Joseph V., New York, N. Y. Accounting and recording apparatus. No. 1,337,575; Apr. 20; v. 273; p. 489.
Weeks, Elling O., Detroit, Mich. Radiator. No. 1,337,576; Apr. 20; v. 273; p. 489.
Weeks, Frank E., assignor to A. Ringman, Chicago, Ill. Goggles. No. 1,337,420; Apr. 20; v. 273; p. 459.
Weir Frog Company. (See Madison, Mart J., assignor.)
Weisenborn, George P. A., Kansas City, Mo. Churn. No. 1,337,864; Apr. 20; v. 273; p. 544.
Welhoefer, John T. (See Peters, E. A., and Welhoefer.)
Wells, Albert A., Detroit, Mich. Inclosed non-arcing refillable fuse. No. 1,337,806; Apr. 20; v. 273; p. 533.
Wells, Walter W., assignor of one-half to J. C. L. Krebs, Clyde, Ohio. Variable-speed-governor control. No. 1,337,865; Apr. 20; v. 273; p. 544.
Wermager, Henry C., Emerson, N. D. Attachment for plows. No. 1,337,421; Apr. 20; v. 273; p. 460.
Wernimont, Henry G., Washington, D. C. Coupling or snap. No. 1,337,577; Apr. 20; v. 273; p. 489.
Wertz, Thomas, and F. W. Springmeyer; said Wertz assignor of one-sixth to E. H. Maune and one-sixth to J. Crinnion, St. Louis, Mo. Window-sash stop. No. 1,337,495; Apr. 20; v. 273; p. 474.
Western Electric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company. (See Carroll, Louis W., assignor.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Crawford, Walter G., assignor.)
Western Electric Company. (See Dodge, William L., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Hall, John A., assignor.)
Western Electric Company. (See Harrison, William H., assignor.)
Western Electric Company. (See Lundell, Allen E., assignor.)
Western Electric Company. (See McMurry, Fred R., assignor.)
Western Electric Company. (See McQuarrie, James L., assignor.)
Western Electric Company. (See Mason, Summer R., assignor.)
Western Electric Company. (See Powell, Winfred T., assignor.)
Western Electric Company. (See Reeves, Frank N., assignor.)
Western Electric Company. (See Reynolds, J. N., and Hearn, assignors.)
Western Electric Company. (See Reynolds, John N., assignor.)
Western Electric Company. (See Schench, William A., assignor.)
Western Electric Company. (See Sperry, Arthur B., assignor.)
Western Electric Company. (See Stoller, Hugh M., assignor.)
Western Electric Company. (See Ulrich, Horace W., assignor.)
Western Electric Company. (See Van Amstel, Tudor, assignor.)
Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
Western Electric Company. (See Wilbur, R. S., and Harrison, assignors.)
Western Electric Company. (See Wilbur, Ray S., assignor.)
Western Electric Company. (See Williams, S. B., Jr., and Albert, assignors.)
Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
Western Electric Company. (See Wotton, James A., assignor.)
Western Steel Auto-Wheel Company. (See Williams, John W., assignor.)
Whelpley, Eli D., and W. E. Winters, Oneida, N. Y. Electric plug. No. 1,337,422; Apr. 20; v. 273; p. 460
Whitaker, Frank P., *et al.*, executors. (See Whitaker, Frederick B., assignor.)
Whitaker, Frederick B., deceased; F. P. Whitaker, executor, and E. G. Griffiths, formerly Whitaker, executrix, Rugby, England. System for protecting electric cables. No. 1,337,866; Apr. 20; v. 273; p. 544.
Whitaker, Harold P., Peoria, Ill. Bed-lamp. No. 1,337,867; Apr. 20; v. 273; p. 545.
Whitcomb, Fred J., assignor to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,337,739; Apr. 20; v. 273; p. 520.
White, Arthur O., Greensburg, Ind. Plow. No. 1,337,868; Apr. 20; v. 273; p. 545.
Whitney, William M. (See Emery, Raymond D., assignor.)
Wiberg, Oscar A., and G. Karlsson, assignors to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Gearing for steam or gas turbines. No. 1,337,376; Apr. 20; v. 273; p. 452.
Wightman, Charles K., Alton, Ill., assignor to Beall Brothers. Sectional bolt. No. 1,337,807; Apr. 20; v. 275; p. 533.
Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,301; Apr. 20; v. 273; p. 437.
Wilbur, Ray S., Lyndhurst, N. J., and W. H. Harrison, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,676; Apr. 20; v. 273; p. 508.
Wilkinson, Albert R. J., Twickenham, England. Work-holding device. No. 1,337,677; Apr. 20; v. 273; p. 508.
Williams, James H., Leverett, Mass. Wrench. No. 1,337,678; Apr. 20; v. 273; p. 508.
Williams, John W., Santa Rosa, Calif., assignor to Western Steel Auto-Wheel Company, Reno, Nev. Wheel. No. 1,337,869; Apr. 20; v. 273; p. 545.
Williams, Mowry S., assignor of one-half to J. R. Clancy, Syracuse, N. Y. Spark-plug. No. 1,337,679; Apr. 20; v. 273; p. 508.
Williams, Samuel B., Jr., Brooklyn, N. Y., and W. P. Albert, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Time-measuring system. No. 1,337,680; Apr. 20; v. 273; p. 509.
Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,681; Apr. 20; v. 273; p. 509.
Williams, Samuel B., Jr., Brooklyn, N. Y., and C. F. Baldwin, deceased; F. D. Baldwin, administratrix, Montclair, N. J. Telephone-exchange system. No. 1,337,740; Apr. 20; v. 273; p. 521.
Willison, Walter W. (See McColl, F. P., and Willison.)

Willson, Thomas C., Philadelphia, Pa. Method of and apparatus for identifying pictures. No. 1,337,423; Apr. 20; v. 273; p. 460.
Wilson, Rosetta M., Claremore, Okla. Hairpin. No. 1,337,377; Apr. 20; v. 273; p. 452.
Wilson, Stanford, Davis, Calif. Draft-gear for gang-plows. No. 1,337,870; Apr. 20; v. 273; p. 545.
Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
Wilzen, Arthur. (See Roirant, Emile, assignor.)
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,337,302; Apr. 20; v. 273; p. 438.
Winchester Repeating Arms Co. (See Hemming, Otto L., assignor.)
Wingett, John N., assignor to W. A. Haggott, trustee, Denver, Colo. Treating coal. No. 1,337,496; Apr. 20; v. 273; p. 474.
Winks, John O., *et al.* (See Klenke, August C., assignor.)
Winskas, Mikolas, Easthampton, Mass. Fishing-rod. No. 1,337,378; Apr. 20; v. 273; p. 452.
Winter, John R., Lansing, assignor to Kelsey Wheel Company, Detroit, Mich. Wheel-hub and forming same. No. 1,337,808; Apr. 20; v. 273; p. 533.
Winters, David L., Edgewater, Md. Method of and means for supplying internal-combustion engines with fuel. No. 1,337,338; Apr. 20; v. 273; p. 445.
Winters, William E. (See Wheipley, E. D., and Winters.)
Winton, Alexander, Lakewood, Ohio. Protecting means for vessels. No. 1,337,809; Apr. 20; v. 273; p. 533.
Wolfe, Everett K., Westchester, N. Y. Soup-holder. No. 1,337,535; Apr. 20; v. 273; p. 482.
Wolff, Franklin J., Trenton, N. J. Method of and means for producing saggars and the like. No. 1,337,871; Apr. 20; v. 273; p. 545.
Wood, A. J., Grand Rapids, Mich. Grease-gun attachment. No. 1,337,629; Apr. 20; v. 273; p. 499.
Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Cracker-can. No. 1,337,630; Apr. 20; v. 273; p. 499.
Woodman, Richard N., Chicago, Ill., assignor to Dick Safety Corporation. Table-bed. No. 1,337,497; Apr. 20; v. 273; p. 474.
Woolson, Charles H., Syracuse, N. Y. Oiler for drill-presses. No. 1,337,682; Apr. 20; v. 273; p. 509.
Worcester Metal Goods Company. (See Miller, Charles A., assignor.)
Word, John B., Latrobe, assignor of one-third to W. A. Reckers and one-third to C. M. Sumner, Placerville, Calif. Nut-lock. No. 1,337,424; Apr. 20; v. 273; p. 460.
Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated. Telephone-receiver. No. 1,337,741; Apr. 20; v. 273; p. 521.
Wright, Charles S., Hyde Park, Mass., assignor to Crompton & Knowles Loom Works. Weft-carrier-releasing device. No. 1,337,683; Apr. 20; v. 273; p. 509.
Wright, George S. (See Clenny, J. E., and Wright.)
Wullenweber, Ernest A., Detroit, Mich., assignor to Morgan & Wright. Method and apparatus for treating rubber. No. 1,337,536; Apr. 20; v. 273; p. 482.
Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
Yenovkian, Sarkis S., Troy, N. Y. Label-pasting machine. No. 1,337,684; Apr. 20; v. 273; p. 510.
Young, William M., Victoria, British Columbia, Canada. Glass-washer. No. 1,337,303; Apr. 20; v. 273; p. 438.
Zahnow, Frank C., assignor of one-half to L. H. Gleason, Springfield, Mo. Combined collision-buffer and direction-indicator for vehicles. No. 1,337,872; Apr. 20; v. 273; p. 546.
Zawada, Alex, Rembrandt, Manitoba, Canada. Drop-hammer. No. 1,337,379; Apr. 20; v. 273; p. 452.
Zelkowski, John, Whitkow, Saskatchewan, Canada. Boiler. No. 1,337,810; Apr. 20; v. 273; p. 533.
Zeman, Wenzel, Schenectady, N. Y. Power-transmission apparatus. No. 1,337,873; Apr. 20; v. 273; p. 546.
Zwebell, Arthur B., Milwaukee, Wis. Vulcanizer. No. 1,337,631; Apr. 20; v. 273; p. 499.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Automatic Products Corporation. (See Mangless, William A., assignor.)
Arden Manufacturing Corporation. (See Bennett, Clarence W., assignor.)
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Casing for a vacuum-insulated jar. No. 54,884; Apr. 20; v. 273; p. 569.
Bennett, Clarence W., assignor to Arden Manufacturing Corporation, New York, N. Y. Toy aeroplane. No. 54,885; Apr. 20; v. 273; p. 569.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Substation telephone-support. No. 54,886; Apr. 20; v. 273; p. 569.
Boyd, Fred C., assignor to The Faraday Co., New Haven, Conn. Electric heater. No. 54,887; Apr. 20; v. 273; p. 570.
Brockman, Furn O., Rosedale, Kans. Doll figure. No. 54,888; Apr. 20; v. 273; p. 570.
Brown, Edmund N., San Francisco, Calif. Electric heater. Nos. 54,889–90; Apr. 20; v. 273; p. 570.
Brulé, Norbert, St. Barthélemi, Quebec, Canada. Dustpan. No. 54,891; Apr. 20; v. 273; p. 570.
Campbell, Donald, assignor to Lyon & Healy, Chicago, Ill. Harp. Nos. 54,892–3; Apr. 20; v. 273; p. 570.
Carlson, Gustave O., Wethersfield, Conn. Nail set. No. 54,894; Apr. 20; v. 273; p. 571.
Chamberlin, Frederick G., Faith, Norfolk, England. High boot. No. 54,895; Apr. 20; v. 273; p. 571.
Chamberlin, Frederick G., Faith, Norfolk, England. Legging. No. 54,896; Apr. 20; v. 273; p. 571.
Chance, Roy L. (See Harris, R. E., and Chance.)
Charest, Ludger, Auburn, Me. Moccasin. No. 54,897; Apr. 20; v. 273; p. 571.
Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. Nos. 54,898–9; Apr. 20; v. 273; p. 572.
Corning Glass Works. (See Churchill, William, assignor.)
Corns, Frank V. (See Talbot, C. L., and Corns.)
De Ford, Nancy H. H., *et al.* (See Malone, Leon S., assignor.)
Dodge, Frank W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Bathing-cap or similar article. No. 54,900; Apr. 20; v. 273; p. 572.
Dodge, Frank W., New Haven, Conn. Bathing cap or similar article. No. 54,901; Apr. 20; v. 273; p. 572.
Dunbar, Irwin, and F. Norris, Kirkville, Mo. Toy. No. 54,902; Apr. 20; v. 273; p. 572.
Eddy, Robert C., Milwaukee, Wis. Rubber ball. No. 54,903; Apr. 20; v. 273; p. 572.
Elison, Oliver, Wayne, Nebr. Phonograph-cabinet. No. 54,904; Apr. 20; v. 273; p. 572.
Erieson, Emile, Yonkers, assignor to Witcombe, McGeachin & Co., New York, N. Y. Article of manufacture. No. 54,905; Apr. 20; v. 273; p. 573.
Faraday Co., The. (See Boyd, Fred C., assignor.)
Fauser, Gustave M., assignor to Witcombe, McGeachin & Co., New York, N. Y. Article of manufacture. No. 54,906; Apr. 20; v. 273; p. 573.
Finney, Elizabeth H., *et al.* (See Malone, Leon S., assignor.)
Firth, Clarence, Indianapolis, Ind. China tableware article. No. 54,907; Apr. 20; v. 273; p. 573.
Gillette, Maurice, New York, N. Y. Store-front. No. 54,908; Apr. 20; v. 273; p. 573.
Gordon, Milton J., Weehawken, N. J. Embroidered art panel, banner, or flag. Nos. 54,909–10; Apr. 20; v. 273; p. 573.
Grearson & Lane Company. (See Grearson, Frederick A., assignor.)
Grearson, Frederick A., assignor to Grearson & Lane Company, Barre, Vt. Monument. No. 54,911; Apr. 20; v. 273; p. 574.
Greely Square Hotel Company. (See Hermelin, Astrid, assignor.)
Grote, Walther H., assignor to Ten Broeck Tyre Company, Louisville, Ky. Tire. No. 54,912; Apr. 20; v. 273; p. 574.
Hackett, Loyce D., Miami, Fla. Pin. No. 54,913; Apr. 20; v. 273; p. 574.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass casserole or baking-dish and cover. No. 54,914; Apr. 20; v. 273; p. 574.
Haro, Jesus, New York, N. Y. Game. No. 54,915; Apr. 20; v. 273; p. 574.
Harris, Ruth E., and R. L. Chance, San Francisco, Calif. Salt and pepper basket. No. 54,916; Apr. 20; v. 273; p. 574.
Heppes, Otto A., La Grange, Ill. Shingle-simulating strip. No. 54,917; Apr. 20; v. 273; p. 575.
Hermelin, Astrid, New York, N. Y., assignor to Greely Square Hotel Company. Doll. No. 54,918; Apr. 20; v. 273; p. 575.
Hoffman, George P., Akron, Ohio. Elastic vehicle-tire. Nos. 54,919–21; Apr. 20; v. 273; p. 575.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 54,922; Apr. 20; v. 273; p. 575.
Humphrey, Clen S., Brooklyn, N. Y. Powder-can or similar receptacle. No. 54,923; Apr. 20; v. 273; p. 576.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. No. 54,924; Apr. 20; v. 273; p. 576.
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
Johanson, Emil G., assignor to D. H. Roblin, Chicago, Ill. Sheet-glass. No. 54,925; Apr. 20; v. 273; p. 576.
Jones, Thomas G., East Orange, N. J. Vase. No. 54,926; Apr. 20; v. 273; p. 576.
Kahles, John L., Oakland, Calif. Combined time-table, advertising board and clock. No. 54,927; Apr. 20; v. 273; p. 576.
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)

Kieffer, Eugene T., Philadelphia, Pa., assignor to Victor Talking Machine Company. Cabinet for a talking-machine. Nos. 54,928–9; Apr. 20; v. 273; p. 576.
Knapp, Sidney M., New York, N. Y. Electric heater. No. 54,930; Apr. 20; v. 273; p. 577.
Koch, Frank A., New York, N. Y. Statuette. No. 54,931; Apr. 20; v. 273; p. 577.
Krauziewicz, Rozy, Pittsburgh, Pa. Bodice. No. 54,932; Apr. 20; v. 273; p. 577.
Kuns, Ray F., Cincinnati, Ohio. Child's toy vehicle. No. 54,933; Apr. 20; v. 273; p. 577.
La Croix, Juliet, Los Angeles, Calif. Pincushion. No. 54,934; Apr. 20; v. 273; p. 577.
Landry, Joseph Louis P., Mont Joli, Quebec, Canada. Headlight-bracket. No. 54,935; Apr. 20; v. 273; p. 578.
Levin, Alexander, and J. Medin, Calumet, Mich. Watch-bracelet. No. 54,,936; Apr. 20; v. 273; p. 578.
Lorentzen, Hans K., New York, N. Y. Flag-holder. No. 54,937; Apr. 20; v. 273; p. 578.
Lyon & Healy. (See Campbell, Donald, assignor.)
Lyon, Ossian G., Akron, assignor to Rayon Rubber Co., Ravenna, Ohio. Heel for a boot, shoe, or similar article. No. 54,938; Apr. 20; v. 273; p. 578.
MacBoyle, James W., Chicago, Ill. Doll. No. 54,939; Apr. 20; v. 273; p. 578.
Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy animal. Nos. 54,940–2; Apr. 20; v. 273; p. 578–9.
Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy bird. Nos. 54,943–4; Apr. 20; v. 273; p. 579.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. Nos. 54,945–6; Apr. 20; v. 273; p. 580.
Manzel, Charles W., Buffalo, N. Y. Body of an airship. No. 54,947; Apr. 20; v. 273; p. 580.
Martin, Edwin M., Cincinnati, Ohio. Banner. No. 54,948; Apr. 20; v. 273; p. 580.
McKinnie, Henry, Pittsburgh, Pa. Gaseous-fuel-burner support. No. 54,949; Apr. 20; v. 273; p. 580.
Medin, Joseph. (See Levin, A., and Medin.)
Montgomery, Henry S., Topeka, Kans. Dial for time-pieces. No. 54,950; Apr. 20; v. 273; p. 580.
Morrison, James, assignor to The Owens Bottle Company, Toledo, Ohio. Bottle. No. 54,977; Apr. 20; v. 273; p. 585.
Morrison, James C., Highland Park, assignor to Nyal Company, Detroit, Mich. Container. No. 54,951; Apr. 20; v. 273; p. 581.
Newton, Ollie C., Carterville, Ga. Light. No. 54,952; Apr. 20; v. 273; p. 581.
Niederer, Walter D., Prescott, Ariz. Necktie. No. 54,953; Apr. 20; v. 273; p. 581.
Norman, Denham G., Stoke-upon-Trent, England, assignor to William S. Pitcairn Corporation, New York, N. Y. Dish. No. 54,954; Apr. 20; v. 273; p. 581.
Norris, Frank. (See Dunbar, I., and Norris.)
Nyal Company. (See Morrison, James C., assignor.)
Owens Bottle Company, The. (See Morrison, James, assignor.)
Parker, Paul P., assignor to Parker Tire & Rubber Company, Indianapolis, Ind. Automobile-tire. No. 54,955; Apr. 20; v. 273; p. 581.
Parker Tire & Rubber Company. (See Parker, Paul P., assignor.)
Pitcairn, William S., Corporation. (Norman, Denham G., assignor.)
Rayon Rubber Co. (See Lyon, Ossian G., assignor.)
Relly, John P., St. Louis, Mo. Individual ice-cream-service container. No. 54,956; Apr. 20; v. 273; p. 581.
Ridgway, Edward J., Staten Island, N. Y. Dish or similar article. Nos. 54,957–9; Apr. 20; v. 273; p. 582.
Roblin, David H. (See Johanson, Emil G., assignor.)
Schneider, Herman E., Pound, Wis. Garment-hanger. No. 54,960; Apr. 20; v. 273; p. 582.
Schuler, William A., New York, N. Y. Fastener. No. 54,961; Apr. 20; v. 273; p. 582.
Schwarze, Carl J., assignor to Schwarze Electric Company, Adrian, Mich. Push-button. No. 54,962; Apr. 20; v. 273; p. 582.
Schwarze Electric Company. (See Schwarze, Carl J., assignor.)
Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
Shugg, Mildred E., Brooklyn, N. Y. Toy. No. 54,963; Apr. 20; v. 273; p. 582.
Sleight, William W., Chicago, Ill. Head of a bolt for window-frames. No. 54,964; Apr. 20; v. 273; p. 583.
Sleight, William W., Chicago, Ill. Holdfast for window-frames. Nos. 54,965–6; Apr. 20; v. 273; p. 583.
Soliman, Carl P., Jersey City, N. J. Article of glassware. No. 54,967; Apr. 20; v. 273; p. 583.
Sommerhof, William A., Erie, Pa. Article of manufacture—namely, screen for sound-outlets of graphophones. Nos. 54,968–9; Apr. 20; v. 273; p. 583.
Talbot, Charles L., assignor to F. V. Corns, Chicago, Ill. Shirt. No. 54,970; Apr. 20; v. 273; p. 584.
Ten Broeck Tyre Company. (See Grote, Walther H., assignor.)
Thompson, Joseph H., Joplin, Mo. Combination dinner-tray. No. 54,971; Apr. 20; v. 273; p. 584.
Trimble, Arthur G., Pittsburgh, Pa. Christian-service flag. No. 54,972; Apr. 20; v. 273; p. 584.
Trout, Charles L., New York, N. Y. Wedding-ring. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
United States Glass Company. (See Haley, Reuben, assignor.)
Venn, Charles J., Chicago, Ill. Tire-tread. No. 54,975; Apr. 20; v. 273; p. 584.
Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
Witcombe, McGeachin & Co. (See Erieson, Emile, assignor.)
Witcombe, McGeachin & Co. (See Fauser, Gustave M., assignor.)
Wittstein, Charles T., Newark, N. J. Gem-mounting. No. 54,976; Apr. 20; v. 273; p. 585.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Alaska Bakonized Fish Co., Juneau, Alaska. Canned fish. No. 130,253; Apr. 20; v. 273; p. 619.
Alco Textile Products Co. Inc., Albany, N. Y. Handkerchiefs. No. 130,252; Apr. 20; v. 273; p. 619.
Alexander, Frank B., New York, N. Y. Optical lenses. No. 130,254; Apr. 20; v. 273; p. 619.
Alexander-Holden Paper Co. Inc., New York, N. Y. Cover-paper. No. 120,255; Apr. 20; v. 273; p. 619.
American Mexican Packing Co., Wilmington, Calif. Canned sardines. No. 130,256; Apr. 20; v. 273; p. 619.
American Pure Food Process Co., The, Baltimore, Md. Glass jars. No. 130,257; Apr. 20; v. 273; p. 619.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,258; Apr. 20; v. 273; p. 619.
Baer Collapsible Rim Corporation, San Francisco, Calif. Collapsible rim. No. 130,259; Apr. 20; v. 273; p. 619.
Beardsley, Calvin L., Rock Island, Ill. Malt extract. No. 130,261; Apr. 20; v. 273; p. 619.
Beatty, William, Jr., and Co., Philadelphia, Pa. Candy. No. 130,262; Apr. 20; v. 273; p. 619.
Ban, José, Tortosa, Spain. Olive-oil. No. 130,260; Apr. 20; v. 273; p. 619.
Blaisdell Pencil Company, Philadelphia, Pa. Lead-pencils, crayons, penholders, fountain-pens, &c. No. 13,263; Apr. 20; v. 273; p. 619.
Bliss, E. A., Company, The, Meriden, Conn. Jewelry. No. 130,264; Apr. 20; v. 273; p. 619.
Borden Company, The, New York, N. Y. Condensed milk. No. 130,265; Apr. 20; v. 273; p. 619.
Brauer Bros. Shoe Company, St. Louis, Mo. Shoes of leather, cloth, or canvas. No. 130,266; Apr. 20; v. 273; p. 619.
Brighton Shirt Co., New York, N. Y. Men's and boys' dress-negligées and work-shirts. No. 130,267; Apr. 20; v. 273; p. 619.
Brown, James S., Chicago, Ill. Electrically-operated traffic-signals for vehicles. No. 130,268; Apr. 20; v. 273; p. 619.
Brown, Thomas E., Philadelphia, Pa. Hosiery. No. 130,269; Apr. 20; v. 273; p. 619.
Brownell, William M., New York, N. Y. Cooking-syrup for confectioners and bakers. No. 130,270; Apr. 20; v. 273; p. 619.
Burke, Alfred W., Lowell, Mass. Repair-links for chains. No. 130,271; Apr. 20; v. 273; p. 619.
Burton Bros. & Co., New York, N. Y. Voile. No. 130,272; Apr. 20; v. 273; p. 619.
California Macaroni Company, San Francisco, Calif. Macaroni, spaghetti, vermicelli. No. 130,273; Apr. 20; v. 273; p. 619.
California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 130,274; Apr. 20; v. 273; p. 619.
Carson, Pirie, Scott & Co., Chicago, Ill. Ginghams, percales, bleached muslin, &c. No. 130,275; Apr. 20; v. 273; p. 619.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Co., Chicago, Ill. Men's negligée outer shirts. No. 130,276; Apr. 20; v. 273; p. 619.
Chamberlin, H. J., Inc., Worcester, Mass. Wire meat-broilers. No. 130,277; Apr. 20; v. 273; p. 619.
Chevaux Kid Leather Co., Boston, Mass. Finished leather. No. 120,278; Apr. 20; v. 273; p. 619.
Chicago Flexible Shaft Company, Chicago, Ill. Electrical flatirons. No. 130,279; Apr. 20; v. 273; p. 619.
Clark, Thomas E., Detroit, Mich. Electric fans. No. 130,280; Apr. 20; v. 273; p. 619.
Clarksville Canning Co., Clarksville, Iowa. Canned corn. No. 130,281; Apr. 20; v. 273; p. 620.
Cochran, H. K., Company, Little Rock, Ark. Grain-seed. No. 130,282; Apr. 20; v. 273; p. 620.

Columbia Fastener Company, Chicago, Ill. Snap-fasteners. No. 130,283; Apr. 20; v. 273; p. 620.
Columbia Fastener Company, Chicago, Ill. Snap-fasteners. No. 130,284; Apr. 20; v. 273; p. 620.
Columbia Fastener Company, Chicago, Ill. Snap dress-fasteners. No. 130,285; Apr. 20; v. 273; p. 620.
Consolidated Tool Works, Inc., New York, N. Y. Calipers, and dividers for measuring purposes, &c. No. 130,286; Apr. 20; v. 273; p. 620.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's and women's night-wear. No. 130,287; Apr. 20; v. 273; p. 620
Cunill de Figuerola, José, New York, N. Y. Automobiles and motor-trucks. No. 130,288; Apr. 20; v. 273; p. 620.
Diggs, Howard M., East Orange, N. J. Punches. No. 130,291; Apr. 20; v. 273; p. 620.
Derf Manufacturing Company, New York, N. Y. Spark-plugs. No. 130,289; Apr. 20; v. 273; p. 620.
Detroit Stove Works, Detroit, Mich. Prepared steel stove-linings. No. 130,290; Apr. 20; v. 273; p. 620.
Eldridge, Geo. R., Co., Detroit, Mich. Butter. No. 130,292; Apr. 20; v. 273; p. 620.
Elgin Gas Motor Company, Elgin, Ill. Internal-combustion engines. No. 130,293; Apr. 20; v. 273; p. 620.
Elgin Motor Car Corporation, Argo, Ill. Motor-vehicles. No. 130,294; Apr. 20; v. 273; p. 620.
Ely & Walker Goods Co., St. Louis, Mo., and New York, N. Y. Hose-supporter. No. 130,295; Apr. 20; v. 273; p. 620.
Franklin Storage Battery Co., Chicago, Ill. Storage batteries. No. 130,296; Apr. 20; v. 273; p. 620.
Fuld, Traube & Co. Inc., New York, N. Y. Veils, malines, hair-nets, chiffons. No. 130,297; Apr. 20; v. 273; p. 620.
Fulford Mfg. Co., Providence, R. I. Snap-fasteners. No. 130,298; Apr. 20; v. 273; p. 620.
Furber, Frederick M., Revere, Mass., assignor to Furber Manufacturing Corporation. Spark-plugs. No. 130,299; Apr. 20; v. 273; p. 620.
Furber Manufacturing Corporation. (See Furber, Frederick M., assignor.)
Furry Fruit & Produce Co., Yakima, Wash. Fresh fruits. No. 130,300; Apr. 20; v. 273; p. 620.
Geer, Walter L., New York, N. Y. Olive-oil. No. 130,301; Apr. 20; v. 273; p. 620.
Gentile, Oronzio, West Hoboken, N. J. Shoes of leather, rubber, fabric, and combination of the same. No. 130,302; Apr. 20; v. 273; p. 620.
Gibson, A. C., Company, Inc., Buffalo, N. Y. Rubber stamps and stencils. No. 130,303; Apr. 20; v. 273; p. 620.
Glessel, Henry, Co., Chicago, Ill. Dish-washing machines. No. 130,304; Apr. 20; v. 273; p. 620.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 130,305; Apr. 20; v. 273; p. 620.
Gilman, Frank, Birmingham, England. Pneumatic machine-tools for cleaning boiler-plates, &c. No. 130,306; Apr. 20; v. 273; p. 620.
Given, John M., Inc., Pittsburgh, Pa., Chicago, Ill., and New York, N. Y. Children's hosiery. No. 130,307; Apr. 20; v. 273; p. 620.
Goodwear Hosiery Co., Kenosha, Wis. Hosiery. No. 130,308; Apr. 20; v. 273; p. 620.
Groton Electrical Devices Inc., Groton, N. Y. Electrical lavatory drying-machines. No. 130,309; Apr. 30; v. 273; p. 620.
Gruenhagen's, San Francisco, Calif. Candies and chocolates. No. 130,310; Apr. 20; v. 273; p. 620.
Gulnzburg, Edward A., New York, N. Y. Shoe-tongue pads. No. 130,311; Apr. 20; v. 273; p. 620.
Haas, Baruch & Co., Los Angeles, Calif. Foods. No. 130,312; Apr. 20; v. 273; p. 620.
Hendrix, Granville L., Santa Rosa, Calif. Neckties. No. 130,313; Apr. 20; v. 273; p. 620.
Hewes & Potter, Boston, Mass. Garters. No. 130,314; Apr. 20; v. 273; p. 620.
Hindlemann, Harry, Inc., New York, N. Y. Men's suits and overcoats. No. 130,315; Apr. 20; v. 273; p. 621.
Hinds Luminous Compound Company, Hammersmith, London, England. Luminous hand for watches and clocks. No. 130,316; Apr. 20; v. 273; p. 621.
Hollenbach, Charles, Chicago, Ill. Fresh sausage. No. 130,317; Apr. 20; v. 273; p. 621.
Hollingshead, W. R., Company, Binghamton, N. Y. Egg-substitute powder. No. 130,318; Apr. 20; v. 273; p. 621.
Hook, Evan W., & Co., Inc., Baltimore, Md. Bottled cherries, maraschino style. No. 130,319; Apr. 20; v. 273; p. 621.
Huntington Shoe and Leather Company, Huntington, Ind. Boots and shoes of leather, skins, hides, &c. No. 130,320; Apr. 20; v. 273; p. 621.
Iannella, Anna, Chicago, Ill. Candy. No. 130,321; Apr. 20; v. 273; p. 621.
International Merchants, Incorporated, San Francisco, Calif. Butter. No. 130,322; Apr. 20; v. 273; p. 621.
Johnson Bros. & Alexander, Chicago, Ill. Candies. No. 130,323; Apr. 20; v. 273; p. 621.
Jordan Marsh Company, Boston, Mass. Handkerchiefs. No. 130,324; Apr. 20; v. 273; p. 621.
Kayser, Henry, & Fils, Inc., New York, N. Y. Men's women's and children's kid gloves. No. 130,325; Apr. 20; v. 273; p. 621.
King, Robert C., & Co., New York, N. Y. Underwear. No. 130,327; Apr. 20; v. 273; p. 621.
King, Robert C., & Co., New York, N. Y. Underwear and hosiery. No. 130,326; Apr. 20; v. 273; p. 621.
Kirschner, Jacob, Savannah, Ga. Men's overalls. No. 130,328; Apr. 20; v. 273; p. 621.
Kirschner, Jacob, Savannah, Ga. Men's overalls. No. 130,329; Apr. 20; v. 273; p. 621.
Kleine, Henry, & Co., Chicago, Ill. Leather shoes. No. 130,330; Apr. 20; v. 273; p. 621.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 130,331–2; Apr. 20; v. 273; p. 621.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Electric locomotives and tractors. No. 130,333; Apr. 20; v. 273; p. 621.
Korn, Geo. W., Razor Mfg. Co., Little Valley, N. Y. Razors. No. 130,334; Apr. 20; v. 273; p. 621.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Canned milk. No. 130,236; Apr. 20; v. 273; p. 621.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Tea, coffee, chocolate, and cocoa. No. 130,335; Apr. 20; v. 273; p. 621.
Lake Wales Citrus Growers Association, Lake Wales, Fla. Citrus fruits. No. 130,337; Apr. 20; v. 273; p. 621.
Lamborn & Co., New York, N. Y. Prepared felt roofing. No. 130,339; Apr. 20; v. 273; p. 621.
Lamborn & Co., New York, N. Y. Textile fabrics—namely, netting and bunting and silk piece goods. No. 130,338; Apr. 20; v. 273; p. 621.
Lerner Waist Co., New York, N. Y. Clothing. No. 130,340; Apr. 20; v. 273; p. 621.
Levinson, Daniel L., Chicago, Ill. Powdered preparation for making a fruit acid, and spice-flavored marmalade and jam. No. 130,341; Apr. 20; v. 273; p. 621.
Levy & Schilt, New York, N. Y. Young men's outer garments. No. 130,342; Apr. 20; v. 273; p. 621.
Levy & Schilt, New York, N. Y. Men's outer garments. No. 130,343; Apr. 20; v. 273; p. 621.
Lewis, Connors & Company, Chicago, Ill. Logarithmic-scale computing devices. No. 130,344; Apr. 20; v. 273; p. 621.
Liberty Chain Company, Aberdeen, S. D. Tire grip-chains. No. 130,345; Apr. 20; v. 273; p. 621.
Lion Knitting Mills Co., The, Cleveland, Ohio. Knitted capes and mufflers. No. 130,346; Apr. 20; v. 273; p. 621.
Llsenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 130,347; Apr. 20; v. 273; p. 622.
Loose-Wiles Biscuit Company, New York, N. Y. Cakes, wafers, crackers. Nos. 130,349–50; Apr. 20; v. 273; p. 622.
Lortex Company, New York, N. Y. Textile fabrics. No. 130,351; Apr. 20; v. 273; p. 622.
Lown, Pearl E., Oklahoma, Okla. Tire-patches. No. 130,352; Apr. 20; v. 273; p. 622.
MacDonald, Marie B., Toledo, Ohio. Corsets. No. 130,353; Apr. 20; v. 273; p. 622.
Macy, R. H., & Co., New York, N. Y. Leather and canvas shoes. No. 130,354; Apr. 20; v. 273; p. 622.
Mandel & Cohen, New York, N. Y. Hosiery for boys and girls. No. 130,355; Apr. 20; v. 273; p. 622.
Marine Equipment & Supply Co., Philadelphia, Pa. Wood and steel shell tackle-blocks. No. 130,356; Apr. 20; v. 273; p. 622.
Marré & Company, Buenos Aires, Argentina. Cheese and butter. No. 130,357; Apr. 20; v. 273; p. 622.
Marshall Field & Company, Chicago, Ill. Pins, safety-pins, snap-fasteners, &c. No. 130,358; Apr. 20; v. 273; p. 622.
Massachusetts Oilless Bearing Company, Worcester, Mass. Bearings for moving parts of machines. No. 130,359; Apr. 20; v. 273; p. 622.
Massachusetts Oilless Bearings Company, Worcester, Mass. Bearings for different parts of machines. No. 130,360; Apr. 20; v. 273; p. 622.
Massey-Harris Harvester Co. Inc., Batavia, N. Y. Agricultural machinery. No. 130,361; Apr. 20; v. 273; p. 622.
Melvin Candy Co., Chicago, Ill. Candy. No. 130,362; Apr. 20; v. 273; p. 622.
Menist, J., Company Inc., New York, N. Y. Canned fruits and vegetables. No. 130,364; Apr. 20; v. 273; p. 622.
Menist, J., Company, New York, N. Y. Condensed skimmed milk. No. 130,363; Apr. 20; v. 273; p. 622.
Narragansett Bay Oyster Co., Providence, R. I. Fresh, dried, and canned oysters. Nos. 130,365–6; Jan. 6; v. 273; p. 622.
National Clutch Company Inc., Greenburg township, Irvington-on-Hudson, New York. Electrical appliances. No. 130,367; Apr. 20; v. 273; p. 622.
National Poultry Co., Los Angeles, Calif. Dressed poultry. No. 130,368; Apr. 20; v. 273; p. 622.
Naumkeag Steam Cotton Co., Salem, Mass. Cotton piece goods. No. 130,371; Apr. 20; v. 273; p. 622.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets, pillow and bolster cases. No. 130,369; Apr. 20; v. 273; p. 622.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow cases. No. 130,370; Apr. 20; v. 273; p. 622.
Neptune Sea Food Co., San Diego, Calif. Canned sardines. No. 130,372; Apr. 20; v. 273; p. 622.
Neuman, David, Wilkes-Barre, Pa. Chocolate, cocoa, and powdered milk. No. 130,373; Apr. 20; v. 273; p. 622.

New Central Canning Co. Inc. New Orleans, La. Tomato paste. No. 130,374; Apr. 20; v. 273; p. 622.
New England Felt Roofing Works, Boston, Mass. Roofing products. No. 130,375; Apr. 20; v. 273; p. 622.
New Jersey Cutlery Co. Inc., Newark, N. J. Pocket-knives and meat-carving sets. No. 130,376; Apr. 20; v. 273; p. 622.
Noma Motor Corporation, New York, N. Y. Automobiles and automobile-bodies. No. 130,377; Apr. 20; v. 273; p. 622.
Nulomoline Company, The, New York, N. Y. Table-syrup. No. 130,378; Apr. 20; v. 273; p. 622.
Ochs & Frank, Baltimore, Md. Ladies' waists and dresses. No. 130,379; Apr. 20; v. 273; p. 622.
Ogus, Rabinovich & Ogus Company, Chicago, Ill. Women's hats. No. 130,380; Apr. 20; v. 273; p. 622.
O'Malley-Beare Valve Co., Chicago, Ill. Valves for general use and parts thereof. No. 130,381; Apr. 20; v. 273; p. 623.
Oneida Community Limited, Oneida, N. Y. Flat-ware plated with precious metal. No. 130,382; Apr. 20; v. 273; p. 623.
Owensboro Products Company, Owensboro, Ky. Stock feed. No. 130,383; Apr. 20; v. 273; p. 623.
Park, James D., Chicago, Ill. Tractors and tractor parts. No. 130,384; Apr. 20; v. 273; p. 623.
Pewelco Sales Co., Seattle, Wash. Electric water-heaters. No. 130,385; Apr. 20; v. 273; p. 623.
Pfrenger, J., Sons, Brooklyn, N. Y. Gymnasium-bloomers. No. 130,386; Apr. 20; v. 273; p. 623.
Phillips-Doscher Corporation, New York, N. Y. Sweaters. No. 130,387; Apr. 20; v. 273; p. 623.
Piedmont Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 130,388; Apr. 20; v. 273; p. 623.
Pillsbury Flour Mills Company, Minneapolis, Minn. Buckwheat pancake-flour, wheat cereal, pancake-flour, and health-bran. No. 130,389; Apr. 20; v. 273; p. 623.
Plummer, A. Buckland, Chicago, Ill. Foot-pads. No. 130,390; Apr. 20; v. 273; p. 623.
Realart Pictures Corporation, New York, N. Y. Motion-picture films. No. 130,391; Apr. 20; v. 273; p. 623.
Reiner, Max V., South Bethlehem, Pa. Telephone-receiver supports. No. 130,392; Apr. 20; v. 273; p. 623.
Reizenstein, Emile, Waltham, Mass. Plastic composition for modeling. No. 130,393; Apr. 20; v. 273; p. 623.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Shoe-soles of rubber and fiber. No. 130,394; Apr. 20; v. 273; p. 623.
Roe, A. V., & Co., Ltd., Manchester, England. Aeroplanes and parts, air-screws, &c. No. 130,395; Apr. 20; v. 273; p. 623.
Rogers Company, Tacoma, Wash. Coffee. No. 130,396; Apr. 20; v. 273; p. 623.
Rosenbrook, August C., Madison, Wis. Valve-lifting tools for internal-combustion engines. No. 130,397; Apr. 20; v. 273; p. 623.
Russell Sales Co., Newark, N. J. Automobile-steering-post-locking devices. No. 130,398; Apr. 20; v. 273; p. 623.
Ryan Fruit Company, Seattle, Wash. Fresh citrus fruits. No. 130,399; Apr. 20; v. 273; p. 623.
Safepack Mills, Boston, Mass. Composition roofing in rolls and composition roofing shingles. Nos. 130,400–1; Apr. 20; v. 273; p. 623.
Sammel, Fred S., Bedford, Pa. Phonographs and talking-machines. No. 130,402; Apr. 20; v. 273; p. 623.
Sauer, C. F., Co., Richmond, Va. Flavoring extracts. No. 130,403; Apr. 20; v. 273; p. 623.
Schmitz, John, Cleveland, Ohio. Washing fluid. No. 130,405; Apr. 20; v. 273; p. 623.
Schroeder Headlight & Generator Co., Evansville, Ind. Electric headlights and turbo-generators. Nos. 130,406–7; Apr. 20; v. 273; p. 623.
Schussler, M., & Co., San Francisco, Calif. Watches. No. 130,408; Apr. 20; v. 273; p. 623.
Seamans & Cobb Co., Boston, Mass. Cotton sewing-threads. No. 130,404; Apr. 20; v. 273; p. 623.
Slatedale Knitting Mills, Harrisburg, Pa. Hose for men, women, and children. Nos. 130,409–10; Apr. 20; v. 273; p. 623.
Small, Hugh C., Chicago, Ill. Candy. No. 130,411; Apr. 20; v. 273; p. 623.
Sperry Flour Company, San Francisco, Calif. Wheat-flour. No. 130,412; Apr. 20; v. 273; p. 623.
Standard Corset Company, Newark, N. J. Corsets. No. 130,413; Apr. 20; v. 273; p. 623.
Standard Kid Manufacturing Company, Boston, Mass. Upper-leathers. No. 130,414; Apr. 20; v. 273; p. 624.
Standard Tent & Awning Co., The, Toledo, Ohio. Overalls. No. 130,415; Apr. 20; v. 273; p. 624.
Star Bedding Company, St. Louis, Mo. Feathers. No. 130,416; Apr. 20; v. 273; p. 624.
Sterling Products Co., Evansville, Ind. Catsup, canned vegetables and fruits. No. 130,417; Apr. 20; v. 273; p. 624.
Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps. No. 130,418; Apr. 20; v. 273; p. 624.
Stewart, Floyd J., Centerville, Iowa. Leather and fabric leggins. No. 130,419; Apr. 20; v. 273; p. 624.
Stiue Screw Holes Company, Waterbury, Conn. Anchor-sockets for screws. No. 130,420; Apr. 20; v. 273; p. 624.
Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 130,421; Apr. 20; v. 273; p. 624.
Sullivan, Henry C., Hertford, N. C. Shelled and unshelled peanuts. No. 130,422; Apr. 20; v. 273; p. 624.
Talbert-Whitmore Company, Los Angeles, Calif. Shade-cloth. No. 130,423; Apr. 20; v. 273; p. 624.
Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Children's and men's cloth caps. No. 130,425; Apr. 20; v. 273; p. 624.
Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Children's and men's cloth hats and children's caps. No. 130,426; Apr. 20; v. 273; p. 624.
Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Men's and children's hats. No. 130,427; Apr. 20; v. 273; p. 624.
Tolerton & Warfield Co., Sioux City, Iowa. Rice, pickles, and olives. No. 130,424; Apr. 20; v. 273; p. 624.
Union Pacific Tea Co., New York, N. Y. Foods. No. 130,428; Apr. 20; v. 273; p. 624.
Union Auto Specialties Co., San Francisco, Calif. Auto-lenses. No. 130,429; Apr. 20; v. 273; p. 624.
Van Namee, Allison K., Indianapolis, Ind. Spark-intensifiers. No. 130,431; Apr. 20; v. 273; p. 624.
Vanity Fair Silk Mills, Reading, Pa. Hosiery. No. 130,430; Apr. 20; v. 273; p. 624.
Wahl Company, The, Chicago, Ill. Fountain-pens and parts thereof. No. 130,432; Apr. 20; v. 273; p. 624.
Wainwright, A. B., Company, Philadelphia, Pa. Prepared roofings. No. 130,433; Apr. 20; v. 273; p. 624.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions, &c. No. 130,434; Apr. 20; v. 273; p. 624.
Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 130,436; Apr. 20; v. 273; p. 624.
Waldes & Co., Prague, Bohemia. Placket-fasteners, glove-fasteners, buttons, clasps. No. 130,435; Apr. 20; v. 273; p. 624.
Waltham Watch Company, Waltham, Mass. Watch materials, watches, watch-cases. No. 130,437; Apr. 20; v. 273; p. 624.
Warner Bros. Co., Bridgeport, Conn. Hose-supporters. No. 130,438; Apr. 20; v. 273; p. 624.
Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 130,439; Apr. 20; v. 273; p. 624.
Waterloo Canning Association, Waterloo, Wis. Canned corn and canned peas. No. 130,440; Apr. 20; v. 273; p. 624.
Wertheimer Bros., New York, N. Y. Silk and velvet ribbons. No. 130,442; Apr. 20; v. 273; p. 624.
Wertheimer, N., & Sons, Ligonier, Ind. Field-seeds. No. 130,441; Apr. 20; v. 273; p. 624.
Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 130,443; Apr. 20; v. 273; p. 624.
Whiting Paper Company, Holyoke, Mass. Ledger-paper, bond and linen writing-paper, and mailing-envelops. No. 130,444; Apr. 20; v. 273; p. 624.
Wilberite Roofing Company, Cleveland, Ohio. Prepared roofing. No. 130,445; Apr. 20; v. 273; p. 624.
Wilson & Co., Inc., Chicago, Ill. Foods. No. 130,446; Apr. 20; v. 273; p. 624.
Windle, Randolph T., New York, N. Y. Hand bilge-water pumps for boats. No. 130,447; Apr. 20; v. 273; p. 625.
Winther Motor Truck Company, Kenosha, Wis. Motor-trucks. No. 130,448; Apr. 20; v. 273; p. 625.
Yankee Battery Manufacturing Co., San Diego, Calif. Storage batteries. No. 130,449; Apr. 20; v. 273; p. 625.
Zagoren, Samuel, Brooklyn, N. Y. Naval uniforms. No. 130,450; Apr. 20; v. 273; p. 625.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Baker, R. W., San Jose, Calif. "Panama Soap." (For Soap.) No. 21,805; Apr. 20; v. 273; p. 627.

Barlow-Kimnet Co., The, New York, N. Y. "Barlow-Kimnet." (For Metal and Wood Display Wax Figures, Forms, and Store-Display Equipment.) No. 21,806; Apr. 20; v. 273; p. 627.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Licorice." (For Licorice Tablets.) No. 21,807; Apr. 20; v. 273; p. 627.

Bowman, Joseph A., Columbus, Ohio. "Bowman's Nu-Lik-Brand Auto Finishes Eclipse Auto-Top Waterproofing." (For a Dressing.) No. 21,808; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Hair Grower." (For a Hair-Grower.) No. 21,809; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Pressing Oil." (For a Hair-Dressing.) No. 21,810; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Skin Bleach." (For a Cream for Bleaching the Skin.) No. 21,811; Apr. 20; v. 273; p. 627.

Cargill, J. Ralston, Americus, Ga. "Cream of Cane." (For Syrup.) No. 21,812; Apr. 20; v. 273; p. 627.

Ceitlin, Samuel, Philadelphia, Pa. "Odorine Foot-Ease Powder Co." (For a Foot-Powder.) No. 21,813; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Clove Charms." (For Fruit Tablets—Namely, Charms, Clove Flavor.) No. 21,818; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Grape Charms." (For Fruit Tablets—Namely Charms, Grape Flavor.) No. 21,817; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Lemon Charms." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) No. 21,816; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Lime Charms." (For Fruit Tablets—Namely, Charms, Lime Flavor.) No. 21,814; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Orange Charms." (For Fruit Tablets—Namely, Charms, Orange Flavor.) No. 21,820; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Peach Charms." (For Fruit Tablets—Namely Charms, Peach Flavor.) No. 21,819; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Wild Cherry Charms." (For Fruit Tablets—Namely, Charms, Wild-Cherry Flavor.) No. 21,815; Apr. 20; v. 273; p. 627.

Cloud-Thomas Co., Yakima, Wash. "Yakival." (For Apples.) No. 21,821; Apr. 20; v. 273; p. 627.

Fisher, William J., & Co., Boston, Mass. "Fisher's W J F." (For Cigars.) No. 21,822; Apr. 20; v. 273; p. 627.

Gary, Theo. H., Co., New York, N. Y. "The Finishing Touch." (For Unicum Hair-Nets.) No. 21,823; Apr. 20; v. 273; p. 627.

Graves, Clarence D., Springfield, Ill. "Liksom Delicious Bread." (For Bread.) No. 21,824; Apr. 20; v. 273; p. 627.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Thrift." (For Paint.) No. 21,825; Apr. 20; v. 273; p. 627.

Kreider Auto Needs Co., Reading, Pa. "Tube-Lock." (For Patches for Rubber Tires, &c.) No. 21,826; Apr. 20; v. 273; p. 627.

Lake Reedy Packing Company, Frostproof, Fla. "Monte Carlo Brand." (For Oranges, Grape-Fruit, and Tangerines.) No. 21,828; Apr. 20; v. 273; p. 627.

Lake Reedy Packing Company, Frostproof, Fla. "Supreme." (For Oranges, Grape-Fruit, and Tangerines.) No. 21,827; Apr. 20; v. 273; p. 627.

Lares, B. V., Minneapolis, Minn. "69." (For a Medicine.) No. 21,829; Apr. 20; v. 273; p. 627.

Laske, Julius, New Haven, Conn. "Laske's Natural Leaf Clippings." (For Tobacco-Clippings.) No. 21,830; Apr. 20; v. 273; p. 627.

Middletown Packing Co., Middletown, Md. "Mid-Valley Brand Maine Style Sweet Corn." (For Sweet Corn.) No. 21,831; Apr. 20; v. 273; p. 627.

Milwaukee Paper Box Company, Milwaukee, Wis. "Goodies." (For Candy.) No. 21,832; Apr. 20; v. 273; p. 627.

Roberts, G. H., San Francisco, Calif. "Roberts Turkey Brand Corned Meats." (For Cooked Corned Meats.) No. 21,834; Apr. 20; v. 273; p. 627.

Ryan Fruit Co., Seattle, Wash. "Chief Joseph." (For Fresh Fruits.) No. 21,835; Apr. 20; v. 273; p. 627.

Ryan Fruit Co., Seattle, Wash. "100%." (For Oranges.) No. 21,836; Apr. 20; v. 273; p. 627.

Saniwax Paper Co., Kalamazoo, Mich. "Baker's Pride." (For Bread.) No. 21,837; Apr. 20; v. 273; p. 627.

Smith, E. A., Tifton, Ga. "Smith's Hand-Made Candy." (For Candy.) No. 21,839; Apr. 20; v. 273; p. 627.

Walton Milling Company, Lansing, Mich. "Walton's Searchlight Wheat Hearts." (For Cereal Food—Namely, Wheat Hearts.) No. 21,840; Apr. 20; v. 273; p. 627.

Weber-Schlitz Candy Company, Milwaukee, Wis. "Jack-O-Dandy." (For Candies — Namely, Suckers.) No. 21,841; Apr. 20; v. 273; p. 627.

Welch Grape Juice Company, The, Westfield, N. Y. "Graplade." (For a Spread for Bread, Toast, and Biscuit.) No. 21,843; Apr. 20; v. 273; p. 627.

Welch Grape Juice Company, The, Westfield, N. Y. "Peachlade." (For Bread, Toast and Muffins.) No. 21,842; Apr. 20; v. 273; p. 627.

Western Malt Products Co., Pueblo, Colo. "Red Seal." (For Malt Syrup.) No. 21,833; Apr. 20; v. 273; p. 627.

Yarn Clearing House, New York, N. Y. "Superyarn." (For Yarn.) No. 21,838; Apr. 20; v. 273; p. 627.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Haley, E. E., Richmond, Va. "Virginia Fairy or Lucky Stone Co." (For Virginia Fairy or Lucky Stones.) No. 5,245; Apr. 20; v. 273; p. 628.

Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Possesses Four Vital Tractors." (For Automobiles.) No. 5,246; Apr. 20; v. 273; p. 628.

Haynes Automobile Company, The, Kokomo, Ind. "The Haynes Sedan." (For Automobiles.) No. 5,247; Apr. 20; v. 273; p. 628.

Johnson Biscuit Company, Sioux City, Iowa. "A Matter of Good Taste." (For Chocolates.) No. 5,248; Apr. 20; v. 273; p. 628.

Oak Flooring Manufacturers Association, Chicago, Ill. "Oak." (For Oak Flooring.) No. 5,253; Apr. 20; v. 273; p. 628.

Rueckheim Bros. & Eckstein, Chicago, Ill. "Angelus Marshmallows." (For Marshmallows.) No. 5,249; Apr. 20; v. 273; p. 628.

Runyan Chemical Products Co., Omaha, Nebr. "Palzo The Great American Cleaner." (For a Cleaner.) No. 5,250; Apr. 20; v. 273; p. 628.

Septole Hygiene Co., Baltimore, Md. "System Cleaners." (For Laxative Tablets.) No. 5,252; Apr. 20; v. 273; p. 628.

William Patent Crusher & Pulverizer Co., St. Louis, Mo. "Taking Care of Ball Bearings of Our A-B-C Grinding Line." (For Ball-Bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) No. 5,251; Apr. 20; v. 273; p. 628.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

(REGISTRATION APPLIED FOR.)

Abbott, Edwin A., Wilkes-Barre, Pa. Chemical preparation for the removal of metal from oxid formed when metal is heated to a white heat. No. 109,960; Apr. 20; v. 273; p. 587.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Dispensing-cabinets for paper towels or toilet-papers. No. 116,357; Apr. 20; v. 273; p. 590.

All-American Truck Company, Chicago, Ill. Motor-trucks. No. 116,018; Apr. 20; v. 273; p. 590.

Amendet Milling Company, Monroe and Trenton, Mich., and Delta, Ohio. Wheat-flour. No. 128,643; Apr. 20; v. 273; p. 614.

American Core-Twine Company, Boston, Mass. Twine and cordage. No. 124,509; Apr. 20; v. 273; p. 597.

American Enamel Company, Providence, R. I. Enameled handles, knobs, and pulls. No. 122,322; Apr. 20; v. 273; p. 594.

American La France Fire Engine Co., Inc., Elmira, N. Y. Respirators, respirator masks and hoods, emergency-hoods, &c. No. 114,967; Apr. 20; v. 273; p. 589.

American Nut Butter Company, Providence, R. I. Oleomargarin. No. 128,587; Apr. 20; v. 273; p. 613.

American Optical Company, Southbridge, Mass. Ophthalmic lenses and lenses for all kinds of optical and scientific instruments. Nos. 124,562–3; Apr. 20; v. 273; p. 597.

Associated Dairymen of Calif., Inc., San Francisco, Calif. Dairy products—namely, butter, casein, cheese, &c. No. 121,378; Apr. 20; v. 273; p. 593.

Armleder, O., & Co., The, Cincinnati, Ohio. Automobile-trucks, wagons, carts, drays, and vehicles. No. 124,840; Apr. 20; v. 273; p. 598.

Auburn Brush Company, Auburn, Me. Dustpan-brushes, brooms, floor-sweepers and household brushes. No. 124,778; Apr. 20; v. 273; p. 598.

Avery, B. F., & Sons, Louisville, Ky. Rakes, tedders, hay-loaders and presses, huskers, harrows, &c. No. 127,347; Apr. 20; v. 273; p. 608.

B & R Laboratories & Mfg. Co. Inc., The, Jersey City, N. J. Venereal treatment. No. 124,880; Apr. 20; v. 273; p. 598.

B. F. Goodrich Company, The, New York, N. Y. Elevator-belts made of rubber reinforced with fabric. No. 126,572; Apr. 20; v. 273; p. 604.

Baldwin Chain and Manufacturing Company, Worcester, Mass. Power-transmission or drive chains for motor-trucks, &c. No. 124,066; Apr. 20; v. 273; p. 596.

Barlow, John T., Philadelphia, Pa. Photo-engravers' inks. No. 129,119; Apr. 20; v. 273; p. 616.

Basket Stores Company, Omaha, Nebr. Canned fruits, peanut-butter, farina, tea, coffee, &c. Nos. 128,996–7; Apr. 20; v. 273; p. 615.

Bates, A. J., & Company, New York, N. Y. Leather. No. 128,137; Apr. 20; v. 273; p. 612.

Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 125,170; Apr. 20; v. 273; p. 599.

Baush Machine Tool Company, Springfield, Mass. Non-ferrous metal in form of sheets, castings, and forgings. No. 125,874; Apr. 20; v. 273; p. 602.

Beaver Company, The, Buffalo, N. Y. Linoleum and composition floor-coverings. No. 128,485; Apr. 20; v. 273; p. 613.

Bell, Adrian, Baltimore, Md. Soaps. No. 127,886; Apr. 20; v. 273; p. 611.

Berkshire Shirt Co., New York, N. Y. Pajamas. No. 124,038; Apr. 20; v. 273; p. 596.

Boker Cutlery & Hardware Company Inc., New York, N. Y. Razors. No. 127,850; Apr. 20; v. 273; p. 611.

Boott Mills, Lowell, Mass. Cotton piece goods. No. 115,798; Apr. 20; v. 273; p. 589.

Bosak Manufacturing Co., Scranton, Pa. Reconstructive tonic. Nos. 130,356–8; Apr. 20; v. 273; p. 617.

Bowden Wire Limited, Willesden Junction, London, England. Spiral wire and like flexible members for power transmission, &c. No. 107,923; Apr. 20; v. 273; p. 587.

Boysen, Iwer; New York, N. Y. Photographic retouching-screens. No. 125,045; Apr. 20; v. 273; p. 599.

Bray Pictures Corporation, The, New York, N. Y. Moving-picture films showing animated drawings issued serially. No. 125,827; Apr. 20; v. 273; p. 602.

Breen, John P., Great Falls, Mont. Lubricating oils and greases. No. 127,537; Apr. 20; v. 273; p. 609.

Brownson, R., & Company, Hastings, Minn. Nose-guards for animals, particularly horses. No. 120,030; Apr. 20; v. 273; p. 592.

Brubaker, W. L., & Bros., Millersburg, Pa. Staybolt-taps. No. 127,114; Apr. 20; v. 273; p. 607.

Bublitz & Hammond, Nashua, Iowa. Metal-polish. No. 127,576; Apr. 20; v. 273; p. 610.

Burch, Daisy, Mrs., Indianapolis, Ind. Hair-grower. No. 125,150; Apr. 20; v. 273; p. 599.

Burch, Thaddeus A., Baltimore, Md. Lubricating oils and greases. No. 124,969; Apr. 20; v. 273; p. 598.

Burger, Iwan, Inc., New York, N. Y. Herring, mackerel, salmon, tuna, &c. Nos. 128,592–3; Apr. 20; v. 273; p. 613.

Butterick Publishing Company, The, New York, N. Y. Weekly periodical or magazine. No. 122,880; Apr. 20; v. 273; p. 595.

Cairo Food Products Company, Cairo, Ill. Ice-cream, butter, candy, &c. No. 127,892; Apr. 20; v. 273; p. 611.

Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparations used in the treatment of rheumatism, gout, migraine, &c. No. 126,452; Apr. 20; v. 273; p. 604.

California Chocolate Shop, Inc., Los Angeles, Calif. Confectionery—namely, chocolate bonbons. Nos. 127,630–1; Apr. 20; v. 273; p. 610.

Carnrick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of malaria. No. 126,450; Apr. 20; v. 273; p. 604.

Central Glass Works, Wheeling, W. Va. Glassware. No. 126,715; Apr. 20; v. 273; p. 605.

Chapman & Smith Company, Chicago, Ill. Almond paste, citron, lemon, and orange peel, ice-cream, &c., Powder, &c. No. 125,531; Apr. 20; v. 273; p. 601.

Chapman & Smith Company, Chicago, Ill. Baking-powder. No. 125,530; Apr. 20; v. 273; p. 601.

Cla-Loid Mfg. Co., Clermont, Iowa. Mechanics' soap in bars. No. 126,848; Apr. 20; v. 273; p. 606.

Cleveland, Alfred E., Cambridge, Mass. Washing compound. No. 127,082; Apr. 20; v. 273; p. 606.

Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental pliers, forceps, and rongeurs. No. 126,306; Apr. 20; v. 273; p. 603.

Clinton Wire Cloth Company, Boston, Mass., assignor to Clinton-Wright Wire Company. Wire-cloth and fencing of iron wire. No. 115,972; Apr. 20; v. 273; p. 589.

Clinton-Wright Wire Company. (See Clinton Wire Cloth Company, assignor.)

Colley, John W., Elkhart, Ind. Leather and fabric dressing. No. 126,988; Apr. 20; v. 273; p. 606.

Corn Belt Packing Company, Dubuque, Iowa. Kettle-rendered lard. No. 128,342; Apr. 20; v. 273; p. 612.

Corno Mills Company, The, St. Louis, Mo. Rolled oats. No. 124,641; Apr. 20; v. 273; p. 597.

Cosmopolitan Film Company, New Orleans, La. Scenic and educational moving-picture films. No. 126,614; Apr. 20; v. 273; p. 604.

Courtney, Robert A., Baltimore, Md. Blood-remedy compound, vegetable and mineral. No. 125,221; Apr. 20; v. 273; p. 600.

Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 128,665–6; Apr. 20; v. 273; p. 614.

Crawford McGregor & Canby Company, The, Dayton, Ohio. Shoe-lasts. No. 121,566; Apr. 20; v. 273; p. 593.

D-A Lubricant Company, Washington, D. C., and Indianapolis, Ind. Lubricating-greases. No. 128,509; Apr. 20; v. 273; p. 613.

Davis, Charles C., Chicago, Ill. Clotheslines. No. 127,901; Apr. 20; v. 273; p. 611.

Dawson, Clarence O., Blair, Nebr. Canned vegetables. Nos. 128,759–62; Apr. 20; v. 273; p. 614.

Delaware Electric & Supply Co., Wilmington, Del. Lubricating oils and greases for engines, machinery, &c. No. 124,084; Apr. 20; v. 273; p. 596.

Designers Instrument Company, Chicago, Ill. Intermittent fountain ruling-pens. No. 126,115; Apr. 20; v. 273; p. 603.

Despol, Anton, Palo Alto, Calif. Auto-body polish. No. 120,602; Apr. 20; v. 273; p. 593.

Diamond Grinder Company, Cedar Falls, Iowa. Grist-mills. No. 128,489; Apr. 20; v. 273; p. 613.

Dolph, John C., Company, Newark, N. J. Insulating material. No. 124,095; Apr. 20; v. 273; p. 597.

Dow Pump and Diesel Engine Company, Alameda, Calif. Water-works and heavy-pressure pattern cross-compound pumps, &c. No. 128,920; Apr. 20; v. 273; p. 615.

Driver-Harris Company, Harrison, N. J. Wire and metallic strips of an alloy containing manganese. No. 115,567; Apr. 20; v. 273; p. 589.

Dulle, G. H., Milling Co., Jefferson City, Mo. Flour made from wheat. No. 128,547; Apr. 20; v. 273; p. 613.

Eckstein, Joseph, New York, N. Y. Ladies', misses', and children's suits, coats, waists, dresses, and skirts. No. 123,973; Apr. 20; v. 273; p. 596.
Educational Supply Company, The, Painesville, Ohio. School-report cards, class-record books, excuse-blanks, and school-registers. No. 124,929; Apr. 20; v. 273; p. 598.
Ely & Walker Dry Goods Company, St. Louis, Mo. Oil-cloth. No. 128,629; Apr. 20; v. 273; p. 614.
Excello Mat Company, Inc., New York, N. Y. Leather table mats and runners. No. 125,654; Apr. 20; v. 273; p. 602.
Fairchild Bros. & Foster, New York, N. Y. Food product in solution to be used as a food for infants, &c. No. 127,641; Apr. 20; v. 273; p. 610.
Faire Bros. & Co., Limited, Leicester, England. Elastic webs. Nos. 117,655–6; Apr. 20; v. 273; p. 591.
Farmers Union State Exchange, Omaha, Nebr. Canned corn. No. 128,772; Apr. 20; v. 273; p. 614.
Fleisher, W. L., & Co., Inc., New York, N. Y. Air-conditioning apparatus for supplying treated air to office and factory buildings, &c. No. 123,732; Apr. 20; v. 273; p. 595.
Flex-Tie Supply Company, The, Harris, Iowa. Auction-sale outfits. No. 125,836; Apr. 20; v. 273; p. 602.
Ford Mica Company, Inc., New York, N. Y. Spark-plugs. No. 122,634; Apr. 20; v. 273; p. 594.
Fowler, Charles A., Chicago, Ill. Syrup used for making non-alcoholic non-intoxicating maltless beverages. No. 127,640; Apr. 20; v. 273; p. 610.
Free Land Overall Manufacturing Co., The, Freeland and Dubois, Pa. Overalls. No. 128,150; Apr. 20; v. 273; p. 612.
Frishmuth Bro. & Company, Inc., Philadelphia, Pa. Smoking and chewing tobacco and cigarettes. No. 116,157; Apr. 20; v. 273; p. 590.
Gallagher, John, Auburn, Wash. Medicinal preparation for catarrh, asthma, and bronchial troubles. No. 124,931; Apr. 20; v. 273; p. 598.
Gobeen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for iron and steel. No. 129,131; Apr. 20; v. 273; p. 616.
Goldberg, David N., Chicago, Ill. Non-alcoholic non-cereal maltless fruit beverage. No. 127,366; Apr. 20; v. 273; p. 608.
Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Pearls. No. 129,380; Apr. 20; v. 273; p. 617.
Granger & Company, Buffalo, N. Y. Mince-meat. No. 128,679; Apr. 20; v. 273; p. 614.
Guarantee Liquid Measure Co., Rochester, Pa. Liquid-measuring pump. No. 124,985; Apr. 20; v. 273; p. 598.
H. D. Overall Co., Washington, D. C. Overalls, unionalls, and jumpers. No. 126,390; Apr. 20; v. 273; p. 603.
Hales & Edwards Company, Chicago, Ill. Mixed grain feeds for calves and pigs. No. 116,567; Apr. 20; v. 273; p. 590.
Hall & Pickles Limited, Manchester, England. Steel for tools, iron and steel in the form of ingots, rods, &c. No. 123,893; Apr. 20; v. 273; p. 596.
Hammon, James H., Vincennes, Ind. Spectacle-lenses, lens-blanks, and spectacle-frames. No. 128,502; Apr. 20; v. 273; p. 613.
Hawley and Hoops, New York, N. Y. Candies. No. 128,302; Apr. 20; v. 273; p. 612.
Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables. No. 127,650; Apr. 20; v. 273; p. 610.
Hill, Gilbert J., Newark, N. J. Drawing-compasses. No. 127,055; Apr. 20; v. 273; p. 606.
Humphreys, McKey U., Somerville, Mass. Flavoring extracts for foods. No. 128,389; Apr. 20; v. 273; p. 612.
Imperial Belting Company, Chicago, Ill. Rubber and duck beltings and hose, rubber machinery packing, &c. No. 119,707; Apr. 20; v. 273; p. 592.
Indiana Truck Corporation, Marion, Ind. Motor-trucks. No. 113,160; Apr. 20; v. 273; p. 588.
International Film Service Co., Inc., New York, N. Y. Motion-picture films. No. 127,692; Apr. 20; v. 273; p. 611.
International Sugar Feed Co., Minneapolis, Minn. Calf-meal. No. 126,638; Apr. 20; v. 273; p. 605.
International Sugar Feed Co., Minneapolis, Minn. Pig-meal. No. 126,637; Apr. 20; v. 273; p. 605.
Interstate Cotton Oil Refining Company, Sherman, Tex. Shortening for cooking and oil for cooking and salad purposes. No. 126,962; Apr. 20; v. 273; p. 606.
Ivory Polish Company, Elyria, Ohio. Shoe-polish. No. 126,963; Apr. 20; v. 273; p. 606.
Jackson, Edmond, Newport News, Va. Woven textile or fiber floor-mats. No. 126,253; Apr. 20; v. 273; p. 603.
Jacobs, Elliott, New Orleans, La. Medicine for constipation. No. 125,425; Apr. 20; v. 273; p. 601.
Johnson Educator Food Co., Boston, Mass. Peanut-butter and cereal coffee. No. 114,375; Apr. 20; v. 273; p. 588.
Judy, Will S., Lexington, Ky. Tobacco-seed. No. 123,198; Apr. 20; v. 273; p. 595.
Kailsh, Julius, Inc., New York, N. Y. Preparation used as an internal lubricant. No. 125,386; Apr. 20; v. 273; p. 601.
Kelley-Robinson Corporation, The, assignor to The So-Lite Company, Incorporated, New York, N. Y. Doughnuts. No. 127,721; Apr. 20; v. 273; p. 611.
Kent & Purdy Paint Company, St. Louis, Mo. Paints, pigments, colors ground in Japan and oil, oil stains, &c. No. 120,461; Apr. 20; v. 273; p. 592.
Klaeboe, John, Seattle, Wash. Canned salmon. No. 127,291; Apr. 20; v. 273; p. 608.
Korket Company, The, Detroit, Mich. Flush-tank outlet-valves. No. 117,981; Apr. 20; v. 273; p. 591.
Kraft, J. L., & Bros. Co., Chicago, Ill., and New York, N. Y. Cheese. No. 108,253; Apr. 20; v. 273; p. 587.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 116,576; Apr. 20; v. 273; p. 590.
Kwikmix Manufacturing Co., New York, N. Y. Soft-drink-mixing machines. No. 126,282; Apr. 20; v. 273; p. 603.
Lamar, Taylor & Riley Drug Co., Macon, Ga. Skin-cream. No. 125,287; Apr. 20; v. 273; p. 600.
Lee, Harry C., & Company, Inc., New York, N. Y. Golf-balls. No. 125,057; Apr. 20; v. 273; p. 599.
Leota Food Products Co., Oak Park, Ill. Pie-fillings, fruit-flavored icing, &c. No. 127,375; Apr. 20; v. 273; p. 608.
Lemon, Ernest N., Lynchburg, Ohio. Eggs for hatching and poultry. No. 129,264; Apr. 20; v. 273; p. 616.
Lesher, Whitman & Co. Inc., New York, N. Y. Fabric made with cotton warp and filling of wool, mohair, &c. No. 124,721; Apr. 20; v. 273; p. 597.
Lev, Abraham, Philadelphia, Pa. Medicine for gout, rheumatism, neuralgia, &c. No. 125,391; Apr. 20; v. 273; p. 601.
Levin, Charles D., New York, N. Y. Men's outer suits and overcoats. No. 126,936; Apr. 20; v. 273; p. 606.
Longmont Farmers Milling & Elevator Co., The, Longmont, Colo. Wheat-flour. No. 101,150; Apr. 20; v. 273; p. 587.
Loudenslager, J. E., Littleton, W. Va. Scalp, face, and skin treatment liquids and pile-remedy ointment. No. 125,428; Apr. 20; v. 273; p. 601.
Lower California Packing Plants, Los Angeles, Calif. Canned fish. No. 128,786; Apr. 20; v. 273; p. 615.
Mackenzie, Robert F., Co., The, Cleveland, Ohio. Candy. Nos. 127,377–8; Apr. 20; v. 273; p. 609.
Maschinen-Fabrik Schweiter A. G., Horgen, Switzerland. Machine-tools and apparatus and tools for metal-working. No. 113,492; Apr. 20; v. 273; p. 588.
Mauser, John J., Sanford, Fla. Cigars. No. 127,863; Apr. 20; v. 273; p. 611.
McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivators. No. 126,418; Apr. 20; v. 273; p. 603.
McCormick & Co., Baltimore, Md. Salad, mayonnaise, and mustard dressings. No. 127,656; Apr. 20; v. 273; p. 610.
McKenna, John F., Fresno, Calif. Liniment for wrenches, sprains, bruises, &c., and general tonic for horses and cows, &c. No. 121,870; Apr. 20; v. 273; p. 594.
McKesson & Robbins, Inc., New York, N. Y. Medicinal preparation for treatment of affections of throat and bronchial tubes. No. 125,291; Apr. 20; v. 273; p. 600.
McKesson & Robbins, Inc., New York, N. Y. Throat-pastils. No. 125,292; Apr. 20; v. 273; p. 600.
Meier, Albert O., Milwaukee, Wis. Gold and silver polish. No. 127,928; Apr. 20; v. 273; p. 611.
Menamen Trading Company, Inc., New York, N. Y. Candies. No. 127,567; Apr. 20; v. 273; p. 609.
Menist, J., Company, Inc., New York, N. Y. Canned vegetables and fruits. No. 124,002; Apr. 20; v. 273; p. 596.
Merchant Loveys Leather Co., Boston, Mass. Leather. No. 125,004; Apr. 20; v. 273; p. 598.
Meritone Medicine Co., Nashville, Tenn. Tonic for nervousness, indigestion, and general debility. No. 116,890; Apr. 20; v. 273; p. 590.
Meyer, John F., Chicago, Ill. Coin-operated moving-picture-viewing machines. No. 127,222; Apr. 20; v. 273; p. 608.
Michigan Lubricator Company, Detroit, Mich. Sediment-traps, tank-filler flanges, nozzles, bushings, &c. No. 119,275; Apr. 20; v. 273; p. 592.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 128,455; Apr. 20; v. 273; p. 612.
Moller, Conrad G., New Canaan, Conn. Soaps for cleaning and scouring purposes. No. 127,384; Apr. 20; v. 273; p. 609.
Monument Pottery Co., The, Trenton, N. J. Bathtubs, shower-baths, closet-bowls, &c. No. 112,322; Apr. 20; v. 273; p. 588.
Morris & Yeomans Limited, Redditch, England. Hand-needles, hat, toilet, safety, and hair pins, button-hooks, &c. No. 122,715; Apr. 20; v. 273; p. 594.
Morrison Bros. Mills, Jefferson, Okla. Highest-patent flour. No. 126,532; Apr. 20; v. 273; p. 604.
Moskowitz, Joseph, Brooklyn, N. Y. Wheat-flour. No. 129,148; Apr. 20; v. 273; p. 616.
Muro Wall Board Company, Inc., Buffalo, N. Y. Wall-board and building-paper. No. 125,621; Apr. 20; v. 273; p. 602.
Musher & Company, Incorporated, Baltimore, Md. Olive-oil. No. 127,563; Apr. 20; v. 273; p. 609.
Nagano, Shinsaku, Chicago, Ill. Sauces for seasoning foods. No. 126,053; Apr. 20; v. 273; p. 603.

Nagle, W. E., & Son, Pittsburgh, Pa. Rivet-sets, chisel-blanks, reamers, and drills. No. 125,338; Apr. 20; v. 273; p. 601.
Napco Corporation, The, Indianapolis, Ind. Glue. No. 129,642; Apr. 20; v. 273; p. 617.
National Hame & Chain Co., The, New Albany, Ind. Hames. No. 83,780; Apr. 20; v. 273; p. 587.
Noonan, T., & Sons Company, Boston, Mass. Complexion-cream. No. 117,242; Apr. 20; v. 273; p. 591.
Northwestern Brewers Supply Co., Milwaukee, Wis. Malt syrup used in the preparation of non-alcoholic malt beverages. No. 126,054; Apr. 20; v. 273; p. 603.
Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 129,470; Apr. 20; v. 273; p. 617.
Ostrowsky, H., Co., Chicago, Ill. Sweaters, hosiery, Men's, women's, and children's underwear, &c. No. 125,122; Apr. 20; v. 273; p. 599.
Package Confectionery Company, Boston, Mass. Candy. No. 128,694; Apr. 20; v. 273; p. 614.
Palmer Candy Co., Sioux City, Iowa. Candy. No. 127,829; Apr. 20; v. 273; p. 611.
Penslar Company, The, Detroit, Mich. Dentifrice No. 125,240; Apr. 20; v. 273; p. 600.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. No. 128,316; Apr. 20; v. 273; p. 612.
Perfecto Manufacturers, Inc., New York, N. Y. Cigars. No. 128,318; Apr. 20; v. 273; p. 612.
Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Chocolates. No. 124,912; Apr. 20; v. 273; p. 598.
Philip Carey Manufacturing Company, The, Lockland, Ohio. Roofing, heat and cold insulating materials, &c. No. 113,749; Apr. 20; v. 273; p. 588.
Placentia Mutual Orange Association, Placentia, Calif. Citrus fruits—namely, oranges. No. 127,395; Apr. 20; v. 273; p. 609.
Platt, Bert, & Co., Wichita, Kans. Decarbonizer for cylinders of automobile engines. No. 120,430; Apr. 20; v. 273; p. 592.
Prange Milling Company, New Douglas, Ill. Self-rising wheat-flour. No. 129,570; Apr. 20; v. 273; p. 617.
Preston Chemical Company, Brooklyn, N. Y. Tablets in the form of aspirin and phenacetin, &c. No. 126,423; Apr. 20; v. 273; p. 604.
Pritchard, William C., Lancaster, Pa. Computing-scales, measuring-pumps. No. 123,497; Apr. 20; v. 273; p. 595.
Prosnitz, Charles, Mount Vernon and New York, N. Y. Narrow woven fabrics. No. 126,907; Apr. 20; v. 273; p. 606.
Purepakt Products Company, Washington, Ind. Canned hominy, pork and beans, tomatoes, pumpkin, and apple-butter. No. 123,398; Apr. 20; v. 273; p. 595.
Radway & Co., New York, N. Y. Preparation for rheumatism, lumbago, sprains, grippe, sore throat, &c. No. 125,303; Apr. 20; v. 273; p. 601.
Ralston Purina Company, St. Louis, Mo. Stock feed. No. 128,616; Apr. 20; v. 273; p. 613.
Randall-McLoughlin Co., Seattle, Wash. Agricultural seeds—namely, grain and grass seeds, nursery stock, &c. No. 121,639; Apr. 20; v. 273; p. 594.
Red "C" Oil Manufacturing Co., Baltimore, Md. Soaps. No. 127,328; Apr. 20; v. 273; p. 608.
Reeve, H., Angel & Co. Inc., New York, N. Y. Filter-paper. No. 126,839; Apr. 20; v. 273; p. 605.
Reliance Fur Dyeing, Inc., Paterson, N. J. Raw furs. No. 116,427; Apr. 20; v. 273; p. 590.
Rogers, S. A., Co., Newark, N. J. Scratch food for poultry, baby-chick mash, &c. No. 117,196; Apr. 20; v. 273; p. 591.
Rossendale-Reddaway Belting and Hose Co., The, Newark, N. J. Copper thread or wire woven or laid longitudinally in hair, cotton woven, stitched canvas, and rubber belting. No. 129,152; Apr. 20; v. 273; p. 616.
Rovner, Edward L., Philadelphia, Pa. Hair-cream. No. 125,241; Apr. 20; v. 273; p. 600.
Rubens, Leon F., Philadelphia, Pa. Dress, negligée, and sport shirts, pajamas, kimonos, &c. No. 124,076; Apr. 20; v. 273; p. 596.
Ruch-Drompp Grocery Co., Logansport, Ind. Bread. No. 129,248; Apr. 20; v. 273; p. 616.
Russell, John, Cutlery Company, Turners Falls, Mass. Pocket, table, butcher, and trade knives. Nos. 129,093–4; Apr. 20; v. 273; p. 616.
Salzer, John A., Seed Co., La Crosse, Wis. Garden, field, and flower seeds. No. 126,659; Apr. 20; v. 273; p. 605.
Schlup, Samuel, Cambridge, Ohio. Ointment for la-grippe, colds, inflammation, and congestion. No. 124,014; Apr. 20; v. 273; p. 596.
Schneider, Abraham B., New York, N. Y. Imitation fur. No. 127,016; Apr. 20; v. 273; p. 606.
Schreiber Milling & Grain Co., St. Joseph, Mo. Hog and cattle feed. No. 124,738; Apr. 20; v. 273; p. 597.
Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 128,526; Apr. 20; v. 273; p. 613.
Scrandrett, Leslie A., Sydney, New South Wales, Australia. Hides, skins, and raw furs. No. 114,486; Apr. 20; v. 273; p. 588.
Selby, John A., Camden, N. J. Liquid polish for pianos, furniture, and other painted or varnished surfaces. No. 124,736; Apr. 20; v. 273; p. 597.
Selznick Pictures Corporation, New York, N. Y. Motion-picture films. No. 122,086; Apr. 20; v. 723; p. 594.
Service Station Supply Co., Detroit, Mich. Electric-battery-cell testers and testing instruments. No. 125,631; Apr. 20; v. 273; p. 602.
Sheehan, Edgar M., San Francisco, Calif. Fresh vegetables—namely, asparagus, and fresh fruits—namely, pears. No. 127,402; Apr. 20; v. 273; p. 609.
Simmons Hardware Company, St. Louis, Mo. Razor-blades. No. 123,528; Apr. 20; v. 273; p. 595.
Single, John, Syracuse, N. Y. Paper-bags. Nos. 120,225–7; Apr. 20; v. 273; p. 592.
Sioux Candy Company, Sioux City, Iowa. Confectionery. No. 125,917; Apr. 20; v. 273; p. 603.
So-Lite Company, The. (See The Kelley-Robinson Corporation, assignor.)
Sowell, E. E., Sacramento, Calif. Plows. No. 117,306; Apr. 20; v. 273; p. 591.
"Spearmint" Co., The, Stillwater, Minn. Non-alcoholic non-intoxicating maltless non-cereal syrup. No. 126,074; Apr. 20; v. 273; p. 603.
Standard Export Cigarette Corporation, New York, N. Y. Cigarettes. No. 123,942; Apr. 20; v. 273; p. 596.
Steinfeld Bros., New York, N. Y. Wheeled children's beds and cribs. No. 99,947; Apr. 20; v. 273; p. 587.
Stilling-Andersen, B., Inc., New York, N. Y. Butter. No. 129,288; Apr. 20; v. 273; p. 617.
Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. No. 121,024; Apr. 20; v. 273; p. 593.
Summer, Henry H., Jackson, Tenn. Non-alcoholic non-cereal maltless beverages and flavors for same. No. 127,405; Apr. 20; v. 273; p. 609.
Talcum Puff Company, Brooklyn, N. Y. Toilet preparation—namely, talcum powder. No. 126,661; Apr. 20; v. 273; p. 605.
Taylor, Isaac H., Atlanta, Ga. Liver-pills. No. 125,038; Apr. 20; v. 273; p. 599.
Tedford, W. L., Little Rock, Ark. Tires, tubes, and casing-patch. No. 125,261; Apr. 20; v. 273; p. 600.
Tetlow, Ida J., Philadelphia, Pa. Perfumes, face, talcum, and sachet powder, toilet water, &c. No. 122,795; Apr. 20; v. 273; p. 594.
Thayer, Henry, & Co. Inc., Cambridge, Mass. Liniment for external treatment of cramps, stomach-ache, neuralgia, burns, &c. No. 125,198; Apr. 20; v. 273; p. 599.
Thermoid Rubber Company, Hamilton township, Mercer county, N. J. Brake-linings. No. 126,154; Apr. 20; v. 273; p. 603.
Touraine Company, The, Boston, Mass. Candy and confections. No. 127,669; Apr. 20; v. 273; p. 610.
Traub Manufacturing Company, The, Detroit, Mich. Bead-clasps, bracelets, lockets, &c. No. 128,806; Apr. 20; v. 273; p. 615.
Tubular Woven Fabric Company, Pawtucket, R. I. Electric portable cables. No. 116,015; Apr. 20; v. 273; p. 589.
Tubular Woven Fabric Company, Pawtucket, R. I. Insulated-wire conductors. No. 117,024; Apr. 20; v. 273; p. 590.
Uncas Manufacturing Company, Providence, R. I. Finger-rings, pins, and bracelets. No. 125,039; Apr. 20; v. 273; p. 599.
United Drug Company, Boston, Mass. Infants' foods, condensed milk, sugar of milk, and malted milk. No. 127,625; Apr. 20; v. 273; p. 616.
United Wholesale Grocery Co., Los Angeles, Calif. Tea coffee, canned vegetables, &c., olive-oil, plum jam, &c. No. 128,807; Apr. 20; v. 273; p. 615.
Urbany, Urban, San Diego, Calif. Chilli food composed of meat, pepper, and flour. No. 123,827; Apr. 20; v. 273; p. 595.
Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Maple table-syrup. No. 119,458; Apr. 20; v. 273; p. 592.
Victor Water Motor Corporation, New York, N. Y. Water-motors. No. 115,031; Apr. 20; v. 273; p. 589.
Vulca Laboratories, San Francisco, Calif. Self-vulcanizing patch for mending automobile-tires. No. 117,787; Apr. 20; v. 273; p. 591.
Waldes & Co., Prague, Bohemia. Placket and glove-fasteners, knitting and crochet needles, buttons, thimbles, &c. Nos. 121,066–7; Apr. 20; v. 273; p. 593.
Walker-Matteson Company, Joliet, Ill. Table-salt. No. 126,666; Apr. 20; v. 273; p. 605.
Ward Baking Company, New York, N. Y. Bread. No. 127,271; Apr. 20; v. 273; p. 608.
Ward Baking Company, New York, N. Y. Bread. No. 129,030; Apr. 20; v. 273; p. 615.
Watkins, John R., Norfolk, Va. Hair-tonic and toilet deodorant. No. 125,212; Apr. 20; v. 273; p. 600.
Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Sweater-coats. No. 128,125; Apr. 20; v. 273; p. 612.
Weinthrop Company, The, Chicago, Ill. Games. No. 109,186; Apr. 20; v. 273; p. 587.
Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 127,191; Apr. 20; v. 273; p. 607.
Western Feed Manufacturers, Inc., Chicago, Ill. Horse feed. No. 127,193; Apr. 20; v. 273; p. 607.
Western Feed Manufacturers, Inc., Chicago, Ill. Horse feed. No. 127,197; Apr. 20; v. 273; p. 607.
Western Feed Manufacturers, Inc., Chicago, Ill. Rabbit feed. No. 127,198; Apr. 20; v. 273; p. 607.
Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. No. 127,199; Apr. 20; v. 273; p. 607.

(REGISTRATION APPLIED FOR.)

Western Feed Manufacturers, Inc., Chicago, Ill. Dairy feed. No. 127,200; Apr. 20; v. 273; p. 608.
Western Feed Manufacturers, Inc., Chicago, Ill. Stock feed. No. 127,202; Apr. 20; v. 273; p. 608.
Western Wheeled Scraper Company, Aurora, Ill. Dump, spreader, and flat cars and dump-wagons. No. 127,112; Apr. 20; v. 273; p. 616.
Whitaker Paper Company, The, Cincinnati, Ohio. Cover-paper. No. 123,090; Apr. 20; v. 273; p. 595.
Williams, R. C., & Company, New York, N. Y. Salad-dressing. No. 127,410; Apr. 20; v. 273; p. 609.
Wilmarth and Rice, Scranton, Pa. Wheat-flour. No. 125,641; Apr. 20; v. 273; p. 602.
Winslow, Samuel, Skate Mfg. Co., The, Worcester, Mass. Ice-skates. No. 123,009; Apr. 20; v. 273; p. 595.
Woodill, Alfred L., Riverside, Calif. Fresh oranges. No. 115,302; Apr. 20; v. 273; p. 589.
Worsnop, Charles H., Halifax, England. Chemical preparation used as an electrolyte in electrical accumulators. No. 117,545; Apr. 20; v. 273; p. 591.
Wülfing, Johann A., Berlin, Germany. Pharmaceutical chalk product in tablet form for internal use. No. 121,553; Apr. 20; v. 273; p. 593.
Wyman Partridge & Co., Minneapolis, Minn. Men's and boys' overcoats. No. 128,128; Apr. 20; v. 273; p. 612.
Wyman Partridge & Co., Minneapolis, Minn. Men's knit underwear and sweaters. No. 128,130; Apr. 20; v. 273; p. 612.
Young, Wm. H., Columbus, Ga. Ointment for external use in influenza, pneumonia, pleurisy, &c. No. 125,556; Apr. 20; v. 273; p. 602.
Zellerbach Paper Company, San Francisco, Calif. Twine. No. 126,433; Apr. 20; v. 273; p. 604.
Zofsak, John J., Greensburg, Pa. Hair-grower for restoring falling hair, removing dandruff, and treating eczema, &c. No. 117,148; Apr. 20; v. 273; p. 590.
Zubrod, Geo., & Co., Louisville, Ky. Toilet preparations for treating the skin. No. 125,356; Apr. 20; v. 273; p. 601.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting and recording apparatus. J. V. Weckbaugh. No. 1,337,575; Apr. 20; v. 273; p. 489.
Acids and acid anhydrids. Manufacture of. M. Moest and E. Schirm. No. 1,337,253; Apr. 20; v. 273; p. 428.
Adding and listing machine, Combined. W. F. McCaleb. No. 1,337,844; Apr. 20; v. 273; p. 540.
Adding-machine. M. M. Holloway. No. 1,337,599; Apr. 20; v. 273; p. 493.
Addressograph. R. B. Smart. No. 1,337,970; Apr. 20; v. 273; p. 565.
Adhesive. W. Alexander. No. 1,337,381; Apr. 20; v. 273; p. 452.
Adhesive composition and making same. W. Alexander. No. 1,337,382; Apr. 20; v. 273; p. 452.
Adhesive-cord strips and winding mechanism therefor, Making. F. B. Converse and J. L. Butler. No. 1,337,690; Apr. 20; v. 273; p. 511.
Advertising display device. S. T. Harvey. No. 1,337,315; Apr. 20; v. 273; p. 440.
Aerial navigation, Flash-light for. H. L. M. J. Benard. No. 1,337,880; Apr. 20; v. 273; p. 547.
Aeroplane. C. R. Fairey. No. 1,337,762; Apr. 20; v. 273; p. 525.
Aeroplane-wing construction. F. J. Plym. No. 1,337,951; Apr. 20; v. 273; p. 561.
Aeroplanes, Aerofoil for. A. A. Holle. No. 1,337,515; Apr. 20; v. 273; p. 477.
Aeroplanes, Life-saving device for. F. A. Townsley. No. 1,337,336; Apr. 20; v. 273; p. 444.
Agricultural machines, Driving and running gear for. O. Frankman. No. 1,337,510; Apr. 20; v. 273; p. 477.
Air-moistener. R. W. Hardle. No. 1,377,766; Apr. 20; v. 273; p. 526.
Airship. G. F. Ochs. No. 1,337,409; Apr. 20; v. 273; p. 458.
Alloy, Electric resistance. W. A. Scheuch. No. 1,337,276; Apr. 20; v. 273; p. 433.
Ammonia, Synthetic production of. H. C. Greenwood. No. 1,337,903; Apr. 20; v. 273; p. 552.
Amusement apparatus. J. H. Butcher. No. 1,337,820; Apr. 20; v. 273; p. 535.
Annunciator. E. W. Vogel. No. 1,337,299; Apr. 20; v. 273; p. 437.
Armatures-coils, Machine for forming. F. C. Nicol and C. H. Knowles. No. 1,337,463; Apr. 20; v. 273; p. 467.
Asphalt-cutter. F. V. E. Bardol. No. 1,337,426; Apr. 20; v. 273; p. 461.
Automatic selecting-switch. A. B. Sperry. No. 1,337,285; Apr. 20; v. 273; p. 434.
Automatic switch. J. L. McQuarrie. No. 1,337,784; Apr. 20; v. 273; p. 529.
Automatic switch. J. N. Reynolds and J. F. Hearn. No. 1,337,794; Apr. 20; v. 273; p. 530.
Automobile attachment. R. W. Harris. No. 1,337,555; Apr. 20; v. 273; p. 485.
Automobile attachment. M. A. Leach. No. 1,337,522; Apr. 20; v. 273; p. 479.
Automobile auxiliary table. S. M. Debakey. No. 1,337,886; Apr. 20; v. 273; p. 548.
Automobile lock and traction device. S. A. Shannon and H. P. Randall. No. 1,337,568. Apr. 20; v. 273; p. 487.
Automobile-signal. W. G. Thomas. No. 1,337,572; Apr. 20; v. 273; p. 488.
Automobile signaling device. V. J. Kovzovich. No. 1,337,405; Apr. 20; v. 273; p. 457.
Automobile-washing apparatus. H. F. Knapp. No. 1,337,477; Apr. 20; v. 273; p. 470.
Automobile water connection. H. and L. Hoffman. No. 1,337,227; Apr. 20; v. 273; p. 423.
Automobile water connection. H. and L. Hoffman. No. 1,337,228; Apr. 20; v. 273; p. 423.
Automobile and other vehicles and machines, Electrical control mechanism for. W. J. P. Moore. No. 1,337,613; Apr. 20; v. 273; p. 496.
Automobiles, Detachable trunk-rack for. S. W. Friedman. No. 1,337,647; Apr. 20; v. 273; p. 502.
Automobiles, Knockdown cabinet for. F. O. Graf. No. 1,337,449; Apr. 20; v. 273; p. 465.
Automobiles, Lubricant cleaning and replenishing system for. W. L. Morris. No. 1,337,408; Apr. 20; v. 273; p. 457.
Awning, Baby-coach. J. Karasevicz. No. 1,337,360; Apr. 20; v. 273; p. 448.
Axle construction, Rear-. F. Richard. No. 1,337,411; Apr. 20; v. 273; p. 458.
Ball-and-socket joint. A. M. Kuhn. No. 1,337,235; Apr. 20; v. 273; p. 425.
Ball-mill. F. E. Canda. No. 1,337,641; Apr. 20; v. 273; p. 501.
Bar: *See*—
Tractor draw-bar.
Barrel-cover. E. H. Angier. No. 1,337,188; Apr. 20; v. 273; p. 416.
Battery-switch. C. A. Gillingham. No. 1,337,217; Apr. 20; v. 273; p. 421.
Bean or weed cutter. J. Aman. No. 1,337,499; Apr. 20; v. 273; p. 475.
Bearing. E. G. Dann. No. 1,337,203; Apr. 20; v. 273; p. 419.
Bearing and mounting therefor. G. R. Bott. No. 1,337,881; Apr. 20; v. 273; p. 547.
Bearing and mounting therefor. G. R. Bott. No. 1,337,882; Apr. 20; v. 273; p. 548.
Bearing, Gas-engine. W. F. Kasper. No. 1,337,656; Apr. 20; v. 273; p. 273; p. 504.
Bearing, Gas-lubricated. W. G. Abbott, Jr. No. 1,337,742; Apr. 20; v. 273; p. 521.
Bearings, Oiling and protecting means for ball-. D. J. Gilbert. No. 1,337,597; Apr. 20; v. 273; p. 273; p. 493.
Bed. C. R. Ball. No. 1,337,580; Apr. 20; v. 273; p. 490.
Bed, Folding. G. R. McAllaster. No. 1,337,321; Apr. 20; v. 273; p. 441.
Bed, Metallic. J. H. Bradley. No. 1,337,340; Apr. 20; v. 273; p. 445.
Bed-spring. L. H. Ershler and M. Hendler. No. 1,337,508; Apr. 20; v. 273; p. 476.
Bed, Table-. R. N. Woodman. No. 1,337,497; Apr. 20; v. 273; p. 474.
Bedstead corner - fastening. M. Schlesinger. No. 1,337,799; Apr. 20; v. 273; p. 531.
Bedstead corner-joint. R. Tattu. No. 1,337,626; Apr. 20; v. 273; p. 273; p. 498.
Bedsteads and occupants from place to place, Apparatus for transferring. M. Volk. No. 1,337,861; Apr. 20; v. 273; p. 543.
Bedsteads, Corner for. R. Tattu. No. 1,337,627; Apr. 20; v. 273; p. 499.
Beverage, Non-alcoholic. A. L. Straus. No. 1,337,850; Apr. 20; v. 273; p. 541.
Bicycle attachment. R. O. Eiselt. No. 1,337,396; Apr. 20; v. 273; p. 455.
Bicycle-crank. J. J. McGuckin. No. 1,337,765; Apr. 20; v. 273; p. 525.
Bicycle, Water-. M. Sopcense. No. 1,337,372; Apr. 20; v. 273; p. 451.
Binder. J. A. Calvert. No. 1,337,193; Apr. 30; v. 273; p. 417.
Binder, Temporary. W. Feldmann. No. 1,337,213; Apr. 20; v. 273; p. 420.
Bit: *See*—
Drill-bit.
Block: *See*—
Sheave-block. Tunnel-block.
Toy building and design block.
Blower, Boiler-soot. F. L. Dornbrook. No. 1,337,828; Apr. 20; v. 273; p. 537.
Board: *See*—
Game-board. Ironing-board.
Boat, Sectional. A. J. Lowdermilk. No. 1,337,781; Apr. 20; v. 273; p. 528.
Bobbin, Weft-. L. B. Jenckes. No. 1,337,706; Apr. 20; v. 273; p. 514.
Bodkin. L. M. Matthael. No. 1,337,480; Apr. 20; v. 273; p. 471.
Boiler: *See*—
Egg-boiler. Locomotive-boiler.
Boiler. J. Zelkowski. No. 1,337,810; Apr. 20; v. 273; p. 533.
Boiler and furnace. Combination. J. W. Allan. No. 1,337,632; Apr. 20; v. 273; p. 499.
Boiler-tube cleaner. S. J. Herman and C. M. MacKenzie. No. 1,337,557; Apr. 20; v. 273; p. 485.

Boilers, Header for tubular. J. J. Cain. No. 1,337,590; Apr. 20; v. 273; p. 492.
Boiling indirectly. R. H. Hult. No. 1,337,704; Apr. 20; v. 273; p. 514.
Bolster extension. J. N. Tree. No. 1,337,416; Apr. 20; v. 273; p. 459.
Bolt: *See*—
Rail-bolt.
Sectional bolt.
Book-holding device. D. R. Barry. No. 1,337,582; Apr. 20; v. 273; p. 490.
Book-protector. A. E. Miller. No. 1,337,612; Apr. 20; v. 273; p. 496.
Boring-machine. E. A. De Forest. No. 1,337,393; Apr. 20; v. 273; p. 455.
Bottle. H. E. Marcil. No. 1,337,979; Apr. 20; v. 273; p. 567.
Bottle, Non-refillable. A. Laube. No. 1,337,923; Apr. 20; v. 273; p. 555.
Box: *See*—
Folding box.
Paper box.
Journal-box.
Braiding-machine. R. C. Rahm. No. 1,337,269; Apr. 20; v. 273; p. 431.
Braiding-machine drive and stop mechanism. R. C. Rahm. No. 1,337,270; Apr. 20; v. 273; p. 431.
Brake: *See*—
Coaster-brake.
Brake mechanism, Equalizing. E. H. Belden. No. 1,337,815; Apr. 20; v. 273; p. 534.
Brassière. C. V. Havens. No. 1,337,224; Apr. 20; v. 273; p. 423.
Bridge. H. Andresen. No. 1,337,187; Apr. 20; v. 273; p. 416.
Broom. C. J. Baird. No. 1,337,503; Apr. 20; v. 273; p. 475.
Brush. W. P. Braun. No. 1,337,819; Apr. 20; v. 273; p. 535.
Brushes, Scraper for clothes-. W. E. Thomson. No. 1,337,856; Apr. 20; v. 273; p. 542.
Buckle. A. A. Abizaid. No. 1,337,181; Apr. 20; v. 273; p. 415.
Buckle. J. U. Russ. No. 1,337,965; Apr. 20; v. 273; p. 564.
Building, Portable. R. S. Bassett. No. 1,337,745; Apr. 20; v. 273; p. 522.
Bullet, Spot-light. W. L. Clay. No. 1,337,343; Apr. 20; v. 273; p. 446.
Burner: *See*—
Gas-burner.
Lantern-burner.
Gaseous-fuel burner.
Burners, Starting device for. J. Alsberg. No. 1,337,498; Apr. 20; v. 273; p. 474.
Button, Separable. J. A. and J. G. Doran. No. 1,337,889; Apr. 20; v. 273; p. 549.
Cabinet, Phonograph-record. C. E. Langley. No. 1,337,922; Apr. 20; v. 273; p. 555.
Cabinet, Refrigerating-. M. F. Ewen. No. 1,337,696; Apr. 20; v. 273; p. 512.
Cabinet, Tool-. C. Bouillon. No. 1,337,387; Apr. 20; v. 273; p. 453.
Cable-laying machine. L. S. Adams. No. 1,337,184; Apr. 20; v. 273; p. 415.
Cables, System for protecting electric. F. B. Whitaker. No. 1,337,866; Apr. 20; v. 273; p. 544.
Calling device. H. P. Clausen. No. 1,337,198; Apr. 20; v. 273; p. 418.
Calling device. J. A. Hall. No. 1,337,314; Apr. 20; v. 273; p. 440.
Camera-tripping device. M. F. Jourdan. No. 1,337,603; Apr. 20; v. 273; p. 494.
Can: *See*—
Cracker-can.
Can. F. P. McColl and W. W. Willison. No. 1,337,526; Apr. 20; v. 273; p. 480.
Can-opener. M. L. Hawks. No. 1,337,514; Apr. 20; v. 273; p. 477.
Cans, Machine for boxing sardine-. R. F. Jones. No. 1,337,404; Apr. 20; v. 273; p. 457.
Cans, Method of and apparatus for wrapping. H. G. Dewey. No. 1,337,693; Apr. 20; v. 273; p. 511.
Cap, Adjustable. P. A. Fischer. No. 1,337,397; Apr. 20; v. 273; p. 455.
Caps, Dust-. A. L. Just. No. 1,337,606; Apr. 20; v. 273; p. 495.
Car cager, Mine-. J. A. Nolan. No. 1,337,944; Apr. 20; v. 273; p. 960.
Car cager, Mine-. J. A. Nolan. No. 1,337,945; Apr. 20; v. 273; p. 560.
Car, Convertible stock and freight. J. Edman. No. 1,337,348; Apr. 20; v. 273; p. 446.
Car-door lock and release. B. M. Pearson. No. 1,337,261; Apr. 20; v. 273; p. 429.
Car for trains, Entrance and exit. K. J. Terrell. No. 1,337,492; Apr. 20; v. 273; p. 473.
Cars, Automatic checking and stopping apparatus for. F. L. Parr. No. 1,337,948; Apr. 20; v. 273; p. 561.
Cars, Reinforced end structure for railway-. V. E. Sisson. No. 1,337,281; Apr. 20; v. 273; p. 433.
Carrier: *See*—
Drier-carrier.
Tire-carrier.
Carrier. B. F. Kelly. No. 1,337,518; Apr. 20; v. 273; p. 487.
Carbureters, Air-control mechanism for. O. Rice. No. 1,337,326; Apr. 20; v. 273; p. 442.
Carding-engines, Drum or cylinder of. J., W., and H. Platt. No. 1,337,470; Apr. 20; v. 273; p. 469.
Cart-seat. C. H. Turner. No. 1,337,295; Apr. 20; v. 273; p. 436.
Cartons or boxes, Apparatus for forming. W. P. McGeouch and G. C. Beckwith. No. 1,337,845; Apr. 20; v. 273; p. 540.
Case-hardening apparatus. A. W. Machlet. No. 1,337,244; Apr. 20; v. 273; p. 426.
Cash-register. L. E. Clement. No. 1,337,441; Apr. 20; v. 273; p. 463.
Casket-handle. F. E. Roberts. No. 1,337,273; Apr. 20; v. 273; p. 432.
Caster, Furniture-. A. Czyzyk. No. 1,337,344; Apr. 20; v. 273; p. 446.
Chain-coupling. G. V. Mathias. No. 1,337,846; Apr. 20; v. 273; p. 541.
Chain-lock. A. I. Varney. No. 1,337,419; Apr. 20; v. 273; p. 459.
Chain-tightener device. L. V. Uglow. No. 1,337,534; Apr. 20; v. 273; p. 482.
Chairs, Pedestal-base for barber-. W. F. Koken. No. 1,337,608; Apr. 20; v. 273; p. 495.
Chairs, Seat-frame for barber-. W. F. Koken. No. 1,337,609; Apr. 20; v. 273; p. 495.
Check, Baggage-. R. L. Porter. No. 1,337,722; Apr. 20; v. 273; p. 517.
Chimney. R. S. Bassett. No. 1,337,746; Apr. 20; v. 273; p. 522.
Chiropractic table. A. A. Griffin. No. 1,337,311; Apr. 20; v. 273; p. 439.
Chiropractic table. A. A. Griffin. No. 1,337,312; Apr. 20; v. 273; p. 440.
Churn. A. Lapka. No. 1,337,777; Apr. 20; v. 273; p. 528.
Churn. G. P. A. Welsenborn. No. 1,337,864; Apr. 20; v. 544.
Churn-support. M. C. Kennerly. No. 1,337,362; Apr. 20; v. 273; p. 449.
Circuit-breaker. T. Midgley, Jr. No. 1,337,366; Apr. 20; v. 273; p. 449.
Circuit-closer for liquid-level indicators. G. E. Mills. No. 1,337,252; Apr. 20; v. 273; p. 428.
Circuits, Regulating system for alternating-current. L. W. Thompson. No. 1,337,854; Apr. 20; v. 273; p. 542.
Circuits, Regulating system for alternating-current. E. F. W. Alexanderson. No. 1,337,875; Apr. 20; v. 273; p. 546.
Circuits, Regulating system for alternating-current. L. W. Thompson. No. 1,337,855; Apr. 20; v. 273; p. 542.
Clamp: *See*—
Guide-clamp.
Clamping device. J. Ruoff. No. 1,337,484; Apr. 20; v. 273; p. 471.
Cleaner: *See*—
Boiler-tube cleaner.
Clip. A. C. Klenke. No. 1,337,607; Apr. 20; v. 273; p. 495.
Clip. A. Rolfe. No. 1,337,963; Apr. 20; v. 273; p. 563.
Clock, Saving-. F. R. Bull. No. 1,337,539; Apr. 20; v. 273; p. 482.
Closet-seat. W. E. Sloan. No. 1,337,730; Apr. 20; v. 273; p. 519.
Clothespin. B. A. Bridges. No. 1,337,434; Apr. 20; v. 273; p. 462.
Coal, Treating. J. N. Wingett. No. 1,337,496; Apr. 20; v. 273; p. 474.
Coaster-brake. C. W. Svenson. No. 1,337,624; Apr. 20; v. 273; p. 498.
Coating process. W. Alexander. No. 1,337,380; Apr. 20; v. 273; p. 452.
Coin-wrapper. W. J. Morgan. No. 1,337,941; Apr. 20; v. 273; p. 559.
Compression-tester. L. M. Knapp. No. 1,337,455; Apr. 20; v. 273; p. 466.
Compressor. V. Arluskes. No. 1,337,501; Apr. 20; v. 273; p. 475.
Condenser. R. J. Fitzgerald. No. 1,337,549; Apr. 20; v. 273; p. 484.
Condenser, Rehealing process for. B. Macpherson. No. 1,337,245; Apr. 20; v. 273; p. 427.
Condensers, Building-stand for. B. Macpherson. No. 1,337,246; Apr. 20; v. 273; p. 427.
Condensing apparatus. J. B. Cottard. No. 1,337,200; Apr. 20; v. 273; p. 418.
Cones, Machine for making pastry-. P. Arduin. No. 1,337,500; Apr. 20; v. 273; p. 475.
Container, Condiment-. E. Nicholas. No. 1,337,789; Apr. 20; v. 273; p. 530.
Container-piercing and tank-filling machine. A. E. King. No. 1,337,558; Apr. 20; v. 273; p. 485.
Container, Sanitary. C. O. Chromaster. No. 1,337,195; Apr. 20; v. 273; p. 417.
Contractor-expander. A. C. Hoecker. No. 1,337,652; Apr. 20; v. 273; p. 503.
Conveyer. G. Bernert. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.
Cooker, Pressure-. J. E. Waggoner. No. 1,337,981; Apr. 20; v. 273; p. 567.
Cooking device. W. Levy. No. 1,337,524; Apr. 20; v. 273; p. 579.
Core, Expansible. C. Holm. No. 1,337,910; Apr. 20; v. 273; p. 553.
Corn, Treating broom-. H. J. Broderson and S. W. Parr. No. 1,337,306; Apr. 20; v. 273; p. 439.

Cotton-picker's sack. C. B. Tipton. No. 1,337,859; Apr. 20; v. 273; p. 543.
Coupling: *See*—
Chain-coupling.
Shaft-coupling.
Flexible coupling.
Tubing-coupling.
Pipe and hose coupling.
Coupling or snap. H. G. Wernimont. No. 1,337,577; Apr. 20; v. 273; p. 489.
Cracker-can. F. P. Wood. No. 1,337,630; Apr. 20; v. 273; p. 499.
Cows, Antikicker for. D. H. McCuaig. No. 1,337,406; Apr. 20; v. 273; p. 457.
Crane. T. N. Garson. No. 1,337,400; Apr. 20; v. 273; p. 456.
Cultivator. W. E. Marshall. No. 1,337,407; Apr. 20; v. 273; p. 457.
Cup: *See*—
Grease-cup.
Cup-dispenser. L. W. Luellen. No. 1,337,843; Apr. 20; v. 273; p. 540.
Current circuits, Regulating system for alternating-. E. J. Murphy and L. W. Thompson. No. 1,337,942; Apr. 20; v. 273; p. 559.
Curtain and shade frame. A. J. Pukt. No. 1,337,370; Apr. 20; v. 273; p. 450.
Curtain-pole support. R. G. Crosbie. No. 1,337,594; Apr. 20; v. 273; p. 492.
Cutter: *See*—
Asphalt-cutter.
Hair-cutter.
Bean or weed cutter.
Weed-cutter.
Food-cutter.
Cutting and folding machine. C. Gutberlet. No. 1,337,000; Apr. 20; v. 273; p. 551.
Cutting and folding machine. H. E. Leonard. No. 1,337,778; Apr. 20; v. 273; p. 528.
Cutting-machine. H. H. Eaton. No. 1,337,208; Apr. 20; v. 273; p. 420.
Cutting machine, Scroll-. J. H. Behee. No. 1,337,428; Apr. 20; v. 273; p. 461.
Darner. M. Ceska. No. 1,337,884; Apr. 20; v. 273; p. 548.
Delivery mechanism. A. F. Harris. No. 1,337,223; Apr. 20; v. 273; p. 422.
Detachable wheel. W. L. Regnier. No. 1,337,271; Apr. 20; v. 273; p. 432.
Dial. J. Macé. No. 1,337,243; Apr. 20; v. 273; p. 426.
Die: *See*—
Power-hammer die.
Die forming and trimming apparatus. H. J. Smith and E. P. Everett. No. 1,337,496; Apr. 20; v. 273; p. 531.
Die-press, Automatic. W. Cameron. No. 1,337,307; Apr. 20; v. 273; p. 439.
Dioxid, Apparatus for producing sulfur. H. K. Lyon. No. 1,337,561; Apr. 20; v. 273; p. 486.
Dispensing device. W. P. Hammond and L. W. Luellen. No. 1,337,838; Apr. 20; v. 273; p. 539.
Display-support. W. B. and W. J. Blackwell. No. 1,337,816; Apr. 20; v. 273; p. 534.
Distillation, Apparatus for. V. L. Emerson. No. 1,337,831; Apr. 20; v. 273; p. 537.
Door-controlling device. C. W. Potts. No. 1,337,954; Apr. 20; v. 273; p. 562.
Door-handle, Self-seating. G. W. Kennington. No. 1,337,918; Apr. 20; v. 273; p. 554.
Door-opener. E. E. Allen. No. 1,337,384; Apr. 20; v. 273; p. 453.
Door-spring. E. V. Gandil. No. 1,337,763; Apr. 20; v. 273; p. 525.
Doors, Automatic lock device for. C. F. Bradley. No. 1,337,638; Apr. 20; v. 273; p. 501.
Double-seaming stake. J. Olson. No. 1,337,466; Apr. 20; v. 273; p. 468.
Doughs, pastes, &c., Apparatus for determining the specific gravity of. L. C. Reese. No. 1,337,410; Apr. 20; v. 273; p. 458.
Draft-regulating device. W. A. Mitchell. No. 1,337,786; Apr. 20; v. 273; p. 529.
Drier: *See*—
Sand-drier.
Drier-carrier. F. L. Furbush. No. 1,337,351; Apr. 20; v. 273; p. 447.
Drill-bit. G. A. Humason. No. 1,337,913; Apr. 20; v. 273; p. 553.
Drill-presses, Oiler for. C. H. Woolson. No. 1,337,682; Apr. 20; v. 273; p. 509.
Drinking-fountain. E. F. Bowman. No. 1,337,637; Apr. 20; v. 273; p. 500.
Driving mechanism. A. Benson. No. 1,337,634; Apr. 20; v. 273; p. 500.
Dye recovery. E. J. Wall. No. 1,337,673; Apr. 20; v. 273; p. 507.
Earthenware, Making sanitary. E. H. Lawrence. No. 1,337,663; Apr. 20; v. 273; p. 506.
Earthy material, Machine for treating. M. A. Popkess. No. 1,337,953; Apr. 20; v. 273; p. 561.
Egg-beater. L. Ullman. No. 1,337,860; Apr. 20; v. 273; p. 543.
Egg-beaters, Water-motor for. R. L. Long. No. 1,337,478; Apr. 20; v. 273; p. 470.
Egg-boiler. G. Alfisi. No. 1,337,876; Apr. 20; v. 273; p. 546.
Egg-case filler. C. E. La Fleur. No. 1,337,978; Apr. 20; v. 273; p. 566.
Electric generator. F. J. Whitcomb. No. 1,337,739; Apr. 20; v. 273; p. 520.
Electric ignition systems, Mechanical interrupter for A. Krauss. No. 1,337,456; Apr. 20; v. 273; p. 466.
Electric-light bulbs, Wrapper for packing. J. E. Clenny and G. S. Wright. No. 1,337,592; Apr. 20; v. 273; p. 492.
Electric motor. S. Boardman. No. 1,337,686; Apr. 20; v. 273; p. 510.
Electric oscillator. G. M. J. Mackay. No. 1,337,933; Apr. 20; v. 273; p. 558.
Electric switch. H. G. French. No. 1,337,895; Apr. 20; v. 273; p. 550.
Electric switch. C. D. Platt. No. 1,337,469; Apr. 20; v. 273; p. 469.
Electric switch. A. E. Rishel No. 1,337,961; Apr. 20; v. 273; p. 563.
Electric switch. J. R. Townsend. No. 1,337,628; Apr. 20; v. 273; p. 499.
Electrical condenser. W. C. Brinton, Jr. No. 1,337,505; Apr. 20; v. 273; p. 476.
Electrical distribution and control, System of. C. F. Kettering. No. 1,337,863; Apr. 20; v. 273; p. 449.
Electrical generation and control, System of. C. F. Kettering. No. 1,337,864; Apr. 20; v. 273; p. 449.
Electrical starting and ignition system. J. K. Delano. (Reissue.) No. 14,842; Apr. 20; v. 273; p. 568.
Electrode. J. K. Forshee. No 1,337,894; Apr 20; v. 273; p. 550.
Electrolyzing apparatus. C. N. Riber. No. 1,337,724; Apr. 20; v. 273; p. 518.
Engine: *See*—
Internal-combustion engine.
Oil-engine.
Rotary engine.
Engine-starting apparatus. J. Bijur. No. 1,337,973; Apr. 20; v. 273; p. 565.
Engines, High-tension distributer for internal-combustion. J. Schneider and F. Billon. No. 1,337,966; Apr. 20; v. 273; p. 564.
Engines, Starting and ignition system for internal-combustion. V. A. Fynn. No. 1,337,649; Apr. 20; v. 273; p. 503.
Engines, Starting device for internal-combustion. J. K. Delano. No. 1,337,887; Apr. 20; v. 273; p. 549.
Engines with fuel, Method of and means for supplying. D. L. Winters. No. 1,337,338; Apr. 20; v. 273; p. 445.
Envelop feeding and handling device. C. L. Post. No. 1,337,266; Apr. 20; v. 273; p. 431.
Envelops, Making open-face. G. W. Swift, Jr. No. 1,337,735; Apr. 20; v. 273; p. 520.
Envelops, Mechanism for making open-face. G. W. Swift, Jr. No. 1,337,734; Apr. 20; v. 273; p. 519.
Explosive. J. A. Hardel. No 1,337,451; Apr. 20; v. 273; p. 465.
Explosive material into shells, or other receptacles, Apparatus for filling. W. Sumner. No. 1,337,490; Apr. 20; v. 273; p. 473.
Eye-testing devices, Cabinet for exhibiting. J. M. Scott. No. 1,337,728; Apr. 20; v. 273; p. 518.
Fan, Motor-. C. H. J. Dilg. No. 1,337,644; Apr. 20; v. 273; p. 502.
Fan, Ventilator-. M. M. Kohn. No. 1,337,560; Apr. 20; v. 273; p. 486.
Fastener. C. B. Merriam. No. 1,337,938; Apr. 20; v. 273; p. 558.
Fastener-setting machine. P. J. Horgan. No. 1,337,229; Apr. 20; v. 273; p. 423.
Feed-water heater and exhaust-steam conserver. W. T. Harris. No. 1,337,556; Apr. 20; v. 273; p. 485.
Feeder, Self-. A. C. Buth. No. 1,337,436; Apr. 20; v. 273; p. 462.
Feeding apparatus. A. L. Bausman. No. 1,337,584; Apr. 20; v. 273; p. 491.
Fiber plaster-board and making same. C. G. Muench. No. 1,337,254; Apr. 20; v. 273; p. 428.
Filament-forming device. O. Ohlson. No. 1,337,258; Apr. 20; v. 273; p. 429.
Film-holder. W. H. O'Brien and D. Siakel. No. 1,337,614; Apr. 20; v. 273; p. 496.
Filter-casing. E. J. Sweetland and C. M. Stanley. No. 1,337,733; Apr. 20; v. 273; p. 519.
Filter, Cistern-. R. H. Cummings. No. 1,337,595; Apr. 20; v. 273; p. 493.
Filter-press frame. G. F. Miller. No. 1,337,251; Apr. 20; v. 273; p. 428.
Filtering apparatus. J. M. Izquierdo. No. 1,337,517; Apr. 20; v. 273; p. 478.
Finger-guard. W. R. Rasmussen. No. 1,337,957; Apr. 20; v. 273; p. 562.
Fire-extinguishers, Supporting-bracket for. M. G. Kopf. No. 1,337,234; Apr. 20; v. 273; p. 424.
Fish-cleaning machines, Belly-finning head for. E. H. Waugh. No. 1,337,375; Apr. 20; v. 273; p. 452.
Fishing-rod. M. Winskas. No. 1,337,378; Apr. 20; v. 273; p. 452.
Fishing-tackle, Light attachment for. E. J. Timmons. No. 1,337,292; Apr. 20; v. 273; p. 436.
Fishline-reel. S. T. Thorpe. No. 1,337,857; Apr. 20; v. 273; p. 543.
Flag-support. C. T. Harned. No. 1,337,222; Apr. 20; v. 273; p. 422.
Flexible coupling. G. F. Eckart. No. 1,337,646; Apr. 20; v. 273; p. 502.
Flow-meters, Apparatus for calibrating U-tubes for. J. A. Shorey. No 1,337,969; Apr. 20; v. 273; p. 564.

Flue, Smoke-. J. A. Speaks. No. 1,337,781; Apr. 20; v. 273; p. 519.
Folding box. E. E. Pinkerton. No. 1,337,368; Apr. 20; v. 273; p. 450.
Food-cutter. E. E. Punzelt. No. 1,337,955; Apr. 20; v. 273; p. 562.
Food curing and smoking apparatus. R. R. Casey. No. 1,337,974; Apr. 20; v. 273; p. 566.
Food products, Apparatus for packing. N. R. Vail and W. B. Coberly. No. 1,337,374; Apr. 20; v. 273; p. 451.
Footrest, Adjustable. W. E. Kingsford. No. 1,337,919; Apr. 20; v. 273; p. 555.
Footwear. L. Trolle. No. 1,337,983; Apr. 20; v. 273; p. 567.
Forging-machine. L. J. Berkeley. No. 1,337,430; Apr. 20; v. 273; p. 461.
Fork, rake, and knife, Combined. J. Miller. No. 1,337,939; Apr. 20; v. 273; p. 559.
Foundry-mixer. H. S. Simpson. No. 1,337,333; Apr. 20; v. 273; p. 444.
Fountain: *See*—
Drinking-fountain.
Frame: *See*—
Curtain and shade frame. Lens-frame.
Filter-press frame.
Fruit-grader. E. S. Lautner. No. 1,337,924; Apr. 20; v. 273; p. 556.
Fumes passing through electrical precipitators, Regulating the velocity of. W. W. Strong. No. 1,337,488; Apr. 20; v. 273; p. 472.
Fumes passing through electrical precipitators, Regulating the velocity of. W. W. Strong. No. 1,337,489; Apr. 20; v. 273; p. 472.
Furnace: *See*—
Heat-treating furnace. Metallurgical furnace.
Melting-furnace.
Furnace-gas producer. L. M. Underwood. No. 1,337,298; Apr. 20; v. 273; p. 437.
Fuse device. A. Herz. (Reissue.) No. 14,844; Apr. 20; v. 273; p. 568.
Fuse, Electric. F. J. Petrovics. No. 1,335,949; Apr. 20; v. 273; p. 561.
Fuse, Inclosed non-arcing refillable. A. A. Wells. No. 1,337,806; Apr. 20; v. 273; p. 533.
Fuse-indicator. W. H. Holdorf. No. 1,337,357; Apr. 20; v. 273; p. 448.
Gage: *See*—
Glove-pointing gage.
Game apparatus. H. S. Coover. No. 1,337,691; Apr. 20; v. 273; p. 511.
Game-board. C. B. Rosenberger. No. 1,337,274; Apr. 20; v. 273; p. 432.
Game, Parlor baseball. R. H. Ireland. No. 1,337,773; Apr. 20; v. 273; p. 527.
Garbage-incinerator. A. J. Roberts. No. 1,337,668; Apr. 20; v. 273; p. 506.
Garment, Man's. T. Gongora. No. 1,337,698; Apr. 20; v. 273; p. 512.
Garment-supporter. J. F. Godward. No. 1,337,901; Apr. 20; v. 273; p. 551.
Gas-burner. B. L. Shannon. No. 1,337,801; Apr. 20; v. 273; p. 532.
Gas-holder. F. C. Frary. No. 1,337,975; Apr. 20; v. 273; p. 566.
Gas-fixture and fuel-hose therefor. C. Stichler. No. 1,337,288; Apr. 20; v. 273; p. 435.
Gas, Producing. O. U. Bean. No. 1,337,537; Apr. 20; v. 273; p. 482.
Gaseous-fuel burner. E. T. Curran. No. 1,337,824; Apr. 20; v. 273; p. 536.
Gate-operating mechanism. F. B. Gilbert. No. 1,337,897; Apr. 20; v. 273; p. 550.
Gathering apparatus. E. F. Harrison. No. 1,337,452; Apr. 20; v. 273; p. 465.
Gearing, Magnetic. H. M. Stroller. No. 1,337,732; Apr. 20; v. 273; p. 519.
Gearing, Tractor driving-. H. P. Polaski. No. 1,337,369; Apr. 20; v. 273; p. 450.
Gearing, Transmission-. J. Guyer and G. Morales. No. 1,337,906; Apr. 20; v. 273; p. 552.
Gearless differential. C. Lavier. No. 1,337,460; Apr. 20; v. 273; p. 467.
Generator: *See*—
Electric generator. Power-generator.
Geometrical instrument, Combination. M. W. Crane. No. 1,337,823; Apr. 20; v. 273; p. 536.
Glass shaping and blowing machine. E. Roirant. No. 1,337,723; Apr. 20; v. 273; p. 517.
Glassware, Burner for fire-polishing. J. M. Said. No. 1,337,328; Apr. 20; v. 273; p. 443.
Glove-pointing gage. G. S. Webb, Jr. No. 1,337,972; Apr. 20; v. 273; p. 563.
Glass-washer. W. M. Young. No. 1,337,303; Apr. 20; v. 273; p. 438.
Goggles. F. E. Weeks. No. 1,337,420; Apr. 20; v. 273; p. 459.
Golf club. W. F. Reach. No. 1,337,958; Apr. 20; v. 273; p. 562.
Grate, Fire-. J. J. Fowden. No. 1,337,214; Apr. 20; v. 273; p. 421.
Grease-cup. L. N. Bourdeau. No. 1,337,432; Apr. 20; v. 273; p. 462.
Grease-cup. A. W. and J. N. Martin. No. 1,337,717; Apr. 20; v. 273; p. 516.
Grinding-machine. E. B. Gardner. No. 1,337,353; Apr. 20; v. 273; p. 447.
Grinding-machine. H. J. Perkins. No. 1,337,617; Apr. 20; v. 273; p. 497.
Grinding-machines, Work-table for. E. B. Gardner. No. 1,337,352; Apr. 20; v. 273; p. 447.
Guide-clamp, Adjustable. H. M. Lamb. No. 1,337,921; Apr. 20; v. 273; p. 555.
Gun. H. A. Douglas. No. 1,337,444; Apr. 20; v. 273; p. 464.
Gun attachment, Grease-. A. J. Wood. No. 1,337,629; Apr. 20; v. 273; p. 499.
Gun, Flash-. R. C. Pierce. No. 1,337,566; Apr. 20; v. 273; p. 487.
Gun-mount. M. L. Johnston. No. 1,337,359; Apr. 20; v. 273; p. 448.
Gun-mount. H. M. Rockwell. No. 1,337,327; Apr. 20; v. 273; p. 443.
Gun, Rapid-fire. W. F. Watkins. No. 1,337,971; Apr. 20; v. 273; p. 565.
Hair-cutter. L. J. Bergendahl. No. 1,337,429; Apr. 20; v. 273; p. 461.
Hair-cutter. A. Pfeifer. No. 1,337,263; Apr. 20; v. 273; p. 430.
Hairpin. R. M. Wilson. No. 1,337,377; Apr. 20; v. 273; p. 452.
Hammer, Drop-. P. E. Lane. No. 1,337,520; Apr. 20; v. 273; p. 479.
Hammer, Drop-. A. Zawada. No. 1,337,379; Apr. 20; v. 273; p. 452.
Hand clamp and drill outfit. G. Dingman. No. 1,337,205; Apr. 20; v. 273; p. 419.
Handle: *See*—
Casket-handle. Door-handle.
Hanger: *See*—
Shade and curtain hanger. Storm and screen window hanger.
Harrow, Tandem disk. F. H. French. No. 1,337,448; Apr. 20; v. 273; p. 465.
Harvester, Beet-. M. S. Montague. No. 1,337,481; Apr. 20; v. 273; p. 471.
Hat-protector, Waterproof. R. E. Chew. No. 1,337,506; Apr. 20; v. 273; p. 476.
Hay-press indicator. E. Gerardy. No. 1,337,553; Apr. 20; v. 273; p. 484.
Headlight-controlling mechanism. N. D. Rice. No. 1,337,849; Apr. 20; v. 273; p. 541.
Heat-treating furnace. C. J. Kirk. No. 1,337,454; Apr. 20; v. 273; p. 466.
Heater: *See*—
Tank-heater. Water-heater.
Heater. B. B. Kahn. No. 1,337,708; Apr. 20; v. 273; p. 514.
Heating element, Electrical. P. F. Apfel. No. 1,337,633; Apr. 20; v. 273; p. 500.
Heating resistance element, Electric-. L. V. Leonard. No. 1,337,779; Apr. 20; v. 273; p. 528.
Heating unit, Electric. E. A. Rutenberg. No. 1,337,725; Apr. 20; v. 273; p. 518.
Heel. J. Burger. No. 1,337,639; Apr. 20; v. 273; p. 501.
Heel-plate for shoes, Resilient. H. G. Robinson. No. 1,337,962; Apr. 20; v. 273; p. 563.
High-voltage transformer. S. E. Johannesen. No. 1,337,915; Apr. 20; v. 273; p. 554.
Hinge, Artificial-leg. R. R. Bodé. No. 1,337,817; Apr. 20; v. 273; p. 535.
Hinge for closet-tops. E. J. De Guenther. No. 1,337,643; Apr. 20; v. 273; p. 502.
Hogpen. E. A. Peters and J. T. Welhoefer. No. 1,337,262; Apr. 20; v. 273; p. 430.
Hoisting and displaying device. P. Light. No. 1,337,237; Apr. 20; v. 273; p. 425.
Hoisting and loading mechanism. M. J. Reynolds. No. 1,337,667; Apr. 20; v. 273; p. 506.
Hoof-trimming machine. S. J. Stokes. No. 1,337,571; Apr. 20; v. 273; p. 488.
Horseshoe. G. J. Capewell. No. 1,337,194; Apr. 20; v. 273; p. 417.
Hose holder, Garden-. W. W. Burnwatt and G. W. Hauschild. No. 1,337,541; Apr. 20; v. 273; p. 483.
Hydrate of alumina and similar gelatinous precipitates from their salts, Depositing. M. Buchner. No. 1,337,191; Apr. 20; v. 273; p. 417.
Hydrocarbons from higher-boiling hydrocarbons, Production of lower-boiling. A. E. Houlehan. No. 1,337,317; Apr. 20; v. 273; p. 441.
Ice, Device for use in buying. J. T. Gilbert. No. 1,337,836; Apr. 20; v. 273; p. 538.
Ice-making and refrigerating purposes, Apparatus for. C. Delaygue. No. 1,337,888; Apr. 20; v. 273; p. 549.
Igniting devices, Distributer for high-tension. M. Schäfer. No. 1,337,329; Apr. 20; v. 273; p. 443.
Impulse starting mechanism. F. D. Norman. No. 1,337,322; Apr. 20; v. 273; p. 441.
Impulse starting mechanism. W. E. Schwarzmann. No. 1,337,331; Apr. 20; v. 273; p. 443.
Incubator. C. H. Abbott. No. 1,337,183; Apr. 20; v. 273; p. 415.
Indicating-lock. J. Heberling. No. 1,337,401; Apr. 20; v. 273; p. 456.
Indicator: *See*—
Fuse-indicator. Hay-press indicator.
Insole-making machine. E. H. Taylor. No. 1,337,290; Apr. 20; v. 273; p. 435.

Insulator, Twin-bar suspension-. S. S. Sonneborn. No. 1,337,284; Apr. 20; v. 273; p. 434.
Internal-combustion engine. L. L. Turney. No. 1,337,417; Apr. 20; v. 273; p. 459.
Ironing-board. F. C. Fuelling. No. 1,337,512; Apr. 20; v. 273; p. 477.
Ironing-board. P. D. Martindale. No. 1,337,936; Apr. 20; v. 273; p. 558.
Jack: *See*—
Locomotive roundhouse-jack.
Jack. J. C. Kopf. No. 1,337,519; Apr. 20; v. 273; p. 478.
Jar and bottle lifter, Fruit-. A. C. Burlingame. No. 1,337,540; Apr. 20; v. 273; p. 483.
Jar wrench and holder. F. F. Girard. No. 1,337,899; Apr. 20; v. 273; p. 551.
Joint: *See*—
Ball-and-socket joint. Beadstead corner-joint.
Joint puller, Universal-. J. A. Knowles. No. 1,337,233; Apr. 20; v. 273; p. 424.
Journal-box. A. C. McCord. No. 1,337,238; Apr. 20; v. 273; p. 425.
Journal-boxes, Lubricator for. W. E. Crist. No. 1,337,201; Apr. 20; v. 273; p. 418.
Journal-boxes, Lubricator for. W. E. Crist. No. 1,337,202; Apr. 20; v. 273; p. 418.
Keyless lock, Safety. J. Mace. No. 1,337,242; Apr. 20; v. 273; p. 426.
Kit, First-aid. C. A. Brewer. No. 1,337,433; Apr. 20; v. 273; p. 462.
Kite and making same. H. B. Holtvolgt. No. 1,337,403; Apr. 20; v. 273; p. 456.
Knife: *See*—
Pocket-knife.
Label-pasting machine. S. S. Yenovkian. No. 1,337,684; Apr. 20; v. 273; p. 510.
Lace with gauze-like ground made on single-thread machines, E. Türck. No. 1,337,294; Apr. 20; v. 273; p. 436.
Ladder and bench, Convertible. S. Kasper. No. 1,337,361; Apr. 20; v. 273; p. 449.
Lamp, Bed-. H. P. Whitaker. No. 1,337,867; Apr. 20; v. 273; p. 545.
Lamp-burners, Air-distributer for. J. K. Davis. No. 1,337,825; Apr. 20; v. 273; p. 536.
Lamp, Hydrocarbon-. F. A. Raffel. No. 1,337,620; Apr. 20; v. 273; p. 497.
Lamp, Signal-. G. Jacobs and F. C. Ruppel. No. 1,337,230; Apr. 20; v. 273; p. 424.
Land-leveling machine. G. A. Ghent. No. 1,337,355; Apr. 20; v. 273; p. 448.
Lantern-burner. G. H. Rolles. No. 1,337,795; Apr. 20; v. 273; p. 531.
Latch, Door-. W. A. Freeman. No. 1,337,447; Apr. 20; v. 273; p. 465.
Lawns, gardens, fields, &c., Sprinkler for irrigating. W. D. Ballerstedt. No. 1,337,744; Apr. 20; v. 273; p. 521.
Leather, Artificial. A. A. Somerville. No. 1,337,802; Apr. 20; v. 273; p. 532.
Lens frame, Ophthalmic-test-. M. Poser. No. 1,337,265; Apr. 20; v. 273; p. 430.
Lever, Scale-. C. E. Bird. No. 1,337,635; Apr. 20; v. 273; p. 500.
Lid-supporting device. S. W. Parsons. No. 1,337,791; Apr. 20; v. 273; p. 530.
Life-preserver, Airman's. S. D. Mott. No. 1,337,788; Apr. 20; v. 273; p. 530.
Light: *See*—
Vehicle curtain-light.
Linen, Machine for marking. A. Hammer and F. Egersdörfer. No. 1,337,650; Apr. 20; v. 273; p. 503.
Linotype-mold. E. L. Holmes. No. 1,337,358; Apr. 20; v. 273; p. 448.
Liquid cooling and dispensing apparatus. H., C., Jr., and M. Doering. No. 1,337,206; Apr. 20; v. 273; p. 419.
Liquids, Apparatus for straining or filtering. P. J. Darlington. No. 1,337,756; Apr. 20; v. 273; p. 524.
Loader. N. A. Fuller. No. 1,337,896; Apr. 20; v. 273; p. 550.
Loading and unloading device. B. L. Hines. No. 1,337,356; Apr. 20; v. 273; p. 448.
Lock: *See*—
Chain-lock. Nut-lock.
Indicating-lock. Padlock.
Window-lock. Safe-lock.
Keyless lock. Vehicle-lock.
Lock. B. Freedman. No. 1,337,511; Apr. 20; v. 273; p. 477.
Lock, retainer, and interlock for shifter devices. G. C. Jensen. No. 1,337,654; Apr. 20; v. 273; p. 504.
Locking device, Time-controlled dead-. R. C. Lewis. No. 1,337,928; Apr. 20; v. 273; p. 556.
Locking mechanism. H. W. Corning. No. 1,337,545; Apr. 20; v. 273; p. 483.
Locomotive-boiler. J. L. Nicholson. No. 1,337,720; Apr. 20; v. 273; p. 517.
Locomotive-firebox arch. G. E. Ryder. No. 1,337,486; Apr. 20; v. 273; p. 472.
Locomotive-roundhouse jack. G. F. Devine. No. 1,337,347; Apr. 20; v. 273; p. 446.
Locomotive, Storage-battery. R. Mancha. No. 1,337,610; Apr. 20; v. 273; p. 495.
Locomotive, Storage-battery. W. W. Sloane. No. 1,337,334; Apr. 20; v. 273; p. 444.
Locomotives, Feeding device for pulverous fuel in furnaces for. K. H. V. von Porat. No. 1,337,738; Apr. 20; v. 273; p. 520.
Loom, Needle-. H. R. Parker. No. 1,337,259; Apr. 20; v. 273; p. 429.
Looms, Weft-detector for. E. H. Ryon. No. 1,337,726; Apr. 20; v. 273; p. 518.
Lubricator. J. T. Wallis. No. 1,337,494; Apr. 20; v. 273; p. 473.
Mail-transferring apparatus. E. A. Rashell. No. 1,337,956; Apr. 20; v. 273; p. 562.
Manganates, Making. H. McCormack. No. 1,337,239; Apr. 20; v. 273; p. 425.
Manger-partition. J. M. B. Lewis. No. 1,337,926; Apr. 20; v. 273; p. 556.
Marble-shooter. A. E. Madison. No. 1,337,934; Apr. 20; v. 273; p. 558.
Mattress, Spring-. F. Karr. No. 1,337,320; Apr. 20; v. 273; p. 441.
Measuring device, Cloth-. L. P. Dunkelberger. No. 1,337,891; Apr. 20; v. 273; p. 549.
Measuring machine, Fabric-. H. E. Pauk. No. 1,337,260; Apr. 20; v. 273; p. 429.
Measuring system, Time-. S. B. Williams, Jr., and W. P. Albert. No. 1,337,680; Apr. 20; v. 273; p. 509.
Medical appliance. W. J. Doyle. No. 1,337,829; Apr. 20; v. 273; p. 537.
Melting-furnace, Electrically-heated. L. C. Harvey. No. 1,337,839; Apr. 20; v. 273; p. 539.
Metal hydroxids, Manufacture of. M. Buchner. No. 1,337,192; Apr. 20; v. 273; p. 417.
Metal sheets, Method of and apparatus for treating. H. W. Lamb. No. 1,337,458; Apr. 20; v. 273; p. 467.
Metals, Cleansing ferrous and non-ferrous. S. R. Mason. No. 1,337,718; Apr. 20; v. 273; p. 516.
Metals, Melting and melting and reducing. M. H. Bennett. No. 1,337,305; Apr. 20; v. 273; p. 438.
Metallurgical furnace. S. M. Howell. No. 1,337,703; Apr. 20; v. 273; p. 513.
Milking-machine. J. G. G. Eklundh, C. Oden, and J. A. Schmitt. No. 1,337,211; Apr. 20; v. 273; p. 420.
Mill: *See*—
Ball-mill.
Mills, Feeding device for grinding cylinder-. E. Roth. No. 1,337,567; Apr. 20; v. 273; p. 487.
Mills, Sampling device for pulverizer-. J. W. Fuller. No. 1,337,697; Apr. 20; v. 273; p. 512.
Mines, Safety device for. J. A. Nolan. No. 1,337,943; Apr. 20; v. 273; p. 559.
Mixer: *See*—
Foundry-mixer.
Mixer. W. J. Pees. No. 1,337,468; Apr. 20; v. 273; p. 469.
Mixing and grinding apparatus irregularly operated. R. D. Maddox. No. 1,337,716; Apr. 20; v. 273; p. 516.
Mold: *See*—
Linotype-mold.
Mold-handling machine. C. K. Prince. No. 1,337,268; Apr. 20; v. 273; p. 431.
Molding-machine. E. O. Beardsley and W. F. Piper. No. 1,337,585; Apr. 20; v. 273; p. 491.
Molding-machine. J. H. Lonskey. No. 1,337,780; Apr. 20; v. 273; p. 528.
Molding semisolid substances. B. J. Allen. No. 1,337,811; Apr. 20; v. 273; p. 533.
Monolithic structures, Method and apparatus for forming. A. F. Volz, Jr. No. 1,337,493; Apr. 20; v. 273; p. 473.
Motor: *See*—
Electric motor. Spring-motor.
Motor, Synchronous alternating-current. V. A. Fynn. No. 1,337,648; Apr. 20; v. 273; p. 502.
Motors, Controlling means for electric. F. G. Warburton. No. 1,337,573; Apr. 20; v. 273; p. 488.
Motorcycle. P. J. O'Neill. No. 1,337,946; Apr. 20; v. 273; p. 560.
Mowing-machine attachment. R. W. Wallace. No. 1,337,863; Apr. 20; v. 273; p. 544.
Music, Device for teaching. A. L. Maxwell. No. 1,337,937; Apr. 20; v. 273; p. 558.
Musical instruments, Fastener for tailpieces of. B. Poehland. No. 1,337,793; Apr. 20; v. 273; p. 530.
Nail-mount. W. E. Elliott. No. 1,337,212; Apr. 20; v. 273; p. 420.
Nitrids, Making solid bodies from. E. Podszus. No. 1,337,264; Apr. 20; v. 273; p. 430.
Nitrogen compounds from carbids, Manufacturing. O. F. S. Carlson. No. 1,337,750; Apr. 20; v. 273; p. 523.
Numbering-head. M. H. Kern. No. 1,337,232; Apr. 20; v. 273; p. 424.
Nut-lock. F. L. Hemmer. No. 1,337,700; Apr. 20; v. 273; p. 513.
Nut-lock. J. B. Word. No. 1,337,424; Apr. 20; v. 273; p. 460.
Nut-meat-dispensing device. J. H. Clappison. No. 1,337,440; Apr. 20; v. 273; p. 463.
Oil and soap solution. J. A. De Cew. No. 1,337,546; Apr. 20; v. 273; p. 488.
Oil-engine. F. G. Hobart and C. B. Jahnke. No. 1,337,771; Apr. 20; v. 273; p. 527.
Oil-engine-feeding device. F. G. Hobart. No. 1,337,770; Apr. 20; v. 273; p. 526.
Oils, Refining cracked. E. H. Leslie and C. Barbre. No. 1,337,523; Apr. 20; v. 273; p. 479.

Oils, Removing or decreasing objectionable odors from treated. J. E. Booge. No. 1,337,339; Apr. 20; v. 273; p. 445.
Oiler, Automatic. C. L. Bubb. No. 1,337,687; Apr. 20; v. 273; p. 510.
Oiler, Machine-. J. M. Bukacek. No. 1,337,688; Apr. 20; v. 273; p. 510.
Ordnance, Lock mechanism of. A. T. Dawson and G. T. Buckham. No. 1,337,308; Apr. 20; v. 273; p. 439.
Ore-flotation agent, Producing an. H. Cannon, C. Barbre, and E. H. Leslie. No. 1,337,542; Apr. 20; v. 273; p. 483.
Ores, Concentration of. E. Edser and S. Tucker. No. 1,337,548; Apr. 20; v. 273; p. 484.
Oven, Baker's. G. H. Hodge and J. C. Robinson. No. 1,337,909; Apr. 20; v. 273; p. 553.
Oxid, Manufacture of pure ferric. F. Hemingway. No. 1,337,402; Apr. 20; v. 273; p. 456.
Pad: *See*—
Rupture-pad.
Pad. A. J. Bean. No. 1,337,879; Apr. 20; v. 273; p. 547.
Padlock, Permutation-. J. M. Walter. No. 1,337,674; Apr. 20; v. 273; p. 508.
Pane-fastener. J. G. Parkins. No. 1,337,565; Apr. 20; v. 273; p. 487.
Paper box. E. de Lemos. No. 1,337,507; Apr. 20; v. 273; p. 476.
Paper-cup blanks, Dispenser for. D. F. Curtin. No. 1,337,392; Apr. 20; v. 273; p. 454.
Paper-fastener. J. W. Grant. No. 1,337,598; Apr. 20; v. 273; p. 493.
Paper, Gripping device for sheets of. E. P. Jennings. No. 1,337,231; Apr. 20; v. 273; p. 424.
Paper holder and cutter, Wrapping-. D. C. Brooks. No. 1,337,588; Apr. 20; v. 273; p. 491.
Paper, Means for applying paste to. B. Selby. No. 1,337,729; Apr. 20; v. 273; p. 518.
Paper - reinforcing machine. C. H. Howard. No. 1,337,702; Apr. 20; v. 273; p. 513.
Pedal - operating mechanism. D. Antonelli. No. 1,337,685; Apr. 20; v. 273; p. 510.
Peeler, Vegetable-. E. J. Stanson. No. 1,337,414; Apr. 20; v. 273; p. 459.
Pen attachment. C. F. Clarke. No. 1,337,196; Apr. 20; v. 273; p. 417.
Pencil and case. G. A. Risk. No. 1,337,412; Apr. 20; v. 273; p. 458.
Percolator. I. M. Rose. No. 1,337,964; Apr. 20; v. 273; p. 563.
Phonograph-motors, Mechanical starter for. J. T. Sibley. No. 1,337,280; Apr. 20; v. 273; p. 433.
Picture films, Motion-. W. V. D. Kelley. No. 1,337,775; Apr. 20; v. 273; p. 527.
Picture - machine stand, Moving-. N. Power. No. 1,337,267; Apr. 20; v. 273; p. 431.
Pictures, Method of and apparatus for identifying. T. C. Willson. No. 1,337,423; Apr. 20; v. 273; p. 460.
Pin-puller. W. A. Smith. No. 1,337,670; Apr. 20; v. 273; p. 507.
Pipe and hose coupling. J. Beach. No. 1,337,427; Apr. 20; v. 273; p. 461.
Piston-head. F. Ellers. No. 1,337,982; Apr. 20; v. 273; p. 567.
Piston-ring. S. D. Harteg. No. 1,337,651; Apr. 20; v. 273; p. 503.
Piston-ring remover and inserter. C. O. Hammontree and V. A. Nelson. No. 1,337,600; Apr. 20; v. 273; p. 494.
Piston-rings, Making. H. S. Frank. No. 1,337,551; Apr. 20; v. 273; p. 484.
Planing-machine. O. L. Stadig. No. 1,337,286; Apr. 20; v. 273; p. 434.
Planing-machine. Portable. F. L. Forward. No. 1,337,350; Apr. 20; v. 273; p. 447.
Plant-support. J. J. Stanley. No. 1,337,803; Apr. 20; v. 273; p. 532.
Plaster-block machine. E. H. Pipe. No. 1,337,618; Apr. 20; v. 273; p. 497.
Plate-lifting device. V. C. Graves. No. 1,337,450; Apr. 20; v. 273; p. 465.
Plates, Machine for hardening. C. C. Olson. No. 1,337,465; Apr. 20; v. 273; p. 468.
Platform and mud-guard. A. R. Sandt, C. F. Walz, and M. L. Stahl. No. 1,337,275; Apr. 20; v. 273; p. 432.
Plow. A. O. White. No. 1,337,868; Apr. 20; v. 273; p. 545.
Plow attachment. H. C. Wermager. No. 1,337,421; Apr. 20; v. 273; p. 460.
Plow, Motor-. M. L. Letroteur. No. 1,337,929; Apr. 20; v. 273; p. 557.
Plows, Draft-gear for gang-. S. Wilson. No. 1,337,870; Apr. 20; v. 273; p. 545.
Plug, Electric. E. D. Whelpley and W. E. Winters. No. 1,337,422; Apr. 20; v. 273; p. 460.
Pocket-knife. O. L. Hemming. No. 1,337,769; Apr. 20; v. 273; p. 526.
Post: *See*—
Signal-post.
Potatoes for planting, Machine for cutting up. J. L. Schroeder. No. 1,337,968; Apr. 20; v. 273; p. 564.
Powder-handling machine. E. H. Pipe. No. 1,337,619; Apr. 20; v. 273; p. 497.
Power by internal combustion, Generating. P. Ostenberg. No. 1,337,323; Apr. 20; v. 273; p. 442.
Power-generator. M. J. Trumble. No. 1,337,533; Apr. 20; v. 273; p. 481.
Power-hammer die. M. A. Jennings. No. 1,337,474; Apr. 20; v. 273; p. 470.
Power-shovel. F. R. Sills. No. 1,337,332; Apr. 20; v. 273; p. 443.
Power-transmission mechanism. S. S. Hembree and A. L. Johnson. No. 1,337,908; Apr. 20; v. 273; p. 552.
Power-transmission apparatus. W. Zeman. No. 1,337,873; Apr. 20; v. 273; p. 546.
Pouring joints, Device for. T. J. O'Connell. No. 1,337,256; Apr. 20; v. 273; p. 429.
Preheater for use in the chemical industry, especially the petroleum-tar industry. L. Steinschneider. No. 1,337,287; Apr. 20; v. 273; p. 435.
Press: *See*—
Die-press.
Printing-press.
Shoe-press.
Pressure-generating system. J. O. Carrey. No. 1,337,751; Apr. 20; v. 273; p. 523.
Pressure-regulator. G. W. Mann. No. 1,337,248; Apr. 20; v. 273; p. 427.
Priming device. W. Heide. No. 1,337,226; Apr. 20; v. 273; p. 423.
Priming device. J. J. Hogan. No. 1,337,772; Apr. 20; v. 273; p. 527.
Printing-press. J. A. Allen. No. 1,337,186; Apr. 20; v. 273; p. 416.
Printing-presses, Roller-adjustment for. S. M. Weatherly and H. J. Stach. No. 1,337,574; Apr. 20; v. 273; p. 488.
Puller: *See*—
Joint-puller.
Pin-puller.
Pulley attachment device. J. W. Marshall. No. 1,337,249; Apr. 20; v. 273; p. 427.
Pump. V. H. Francis. No. 1,337,834; Apr. 20; v. 273; p. 538.
Pump and circuit therefor, Electromagnetic fuel-. C. C. Bradbury. No. 1,337,388; Apr. 20; v. 273; p. 454.
Pump, Centrifugal. H. Juiinsen. No. 1,337,916; Apr. 20; v. 273; p. 554.
Pump, Centrifugal. C. V. Kerr. No. 1,337,659; Apr. 20; v. 273; p. 505.
Pump, Oil-. S. C. Barnes. No. 1,337,581; Apr. 20; v. 273; p. 490.
Pumps, Motor-mounting for bellows-. L. B. Doman. No. 1,337,645; Apr. 20; v. 273; p. 502.
Pumps, Plunger for deep-well. W. J. Coulson. No. 1,337,593; Apr. 20; v. 273; p. 492.
Pushing and pulling implement. O. E. Mousa. No. 1,337,719; Apr. 20; v. 273; p. 517.
Rack for hanging articles. O. H. Frank. No. 1,337,399; Apr. 20; v. 273; p. 456.
Radiator. G. J. Thomas. No. 1,337,415; Apr. 20; v. 273; p. 459.
Radiator. P. J. Tucker. No. 1,337,337; Apr. 20; v. 273; p. 444.
Radiator. E. O. Weeks. No. 1,337,576; Apr. 20; v. 273; p. 489.
Rail-bender. E. F. Bennett. No. 1,337,587; Apr. 20; v. 273; p. 491.
Rail-bolt. M. J. Madison. No. 1,337,365; Apr. 20; v. 273; p. 449.
Rail-fastener. J. T. Wade. No. 1,337,862; Apr. 20; v. 273; p. 544.
Rail, Guard-. A. M. Cornell. No. 1,337,544; Apr. 20; v. 273; p. 483.
Rail-seat holder. V. E. Randall. No. 1,337,621; Apr. 20; v. 273; p. 498.
Railway-crossing, Silent. G. C. and H. W. Melrose. No. 1,337,527; Apr. 20; v. 273; p. 480.
Railway-rail fastening. S. A. Swanson. No. 1,337,851; Apr. 20; v. 273; p. 541.
Railway-signal. W. I. Smith. No. 1,337,283; Apr. 20; v. 273; p. 434.
Railway-signal system. H. Margotta. No. 1,337,935; Apr. 20; v. 273; p. 558.
Range-firepot. J. Jungers. No. 1,337,604; Apr. 20; v. 273; p. 494.
Razor, Safety-. R. E. Brown. No. 1,337,435; Apr. 20; v. 273; p. 462.
Receptacle-stopper. R. G. Allen. No. 1,337,182; Apr. 20; v. 273; p. 415.
Reducing and refining apparatus. A. L. Bausman. No. 1,337,583; Apr. 20; v. 273; p. 490.
Reel: *See*—
Fishline-reel.
Reel construction and handling webs. W. I. Tuttle. No. 1,337,418; Apr. 20; v. 273; p. 459.
Refrigerator. H. M. Tarras. No. 1,337,625; Apr. 20; v. 273; p. 498.
Register: *See*—
Cash-register.
Regulator: *See*—
Pressure-regulator.
Tank-regulator.
Relay system. H. O. Rugh. No. 1,337,797; Apr. 20; v. 273; p. 531.
Respirator, Artificial. C. L. Heald. No. 1,337,225; Apr. 20; v. 273; p. 423.
Reversing mechanism. J. V. Petrelli. No. 1,337,531; Apr. 20; v. 273; p. 481.
Revoluble seat. C. M. Hansen. No. 1,337,221; Apr. 20; v. 273; p. 422.
Rheostat. H. L. Dodge. No. 1,337,826; Apr. 20; v. 273; p. 536.

Rifles and machine-guns, Cartridge-magazine for. M. G. Farquhar and A. H. Hill. No. 1,337,893; Apr. 20; v. 273; p. 550.
Rim-holding stand. P. Cannon. No. 1,337,821; Apr. 20; v. 273; p. 535.
Ring: *See*—
Piston-ring.
Rivet-setting and similar operations, Apparatus for. S. Lake. No. 1,337,457; Apr. 20; v. 273; p. 466.
Road-machine. J. H. McLeod. No. 1,337,241; Apr. 20; v. 273; p. 426.
Rod: *See*—
Fishing-rod.
Rolling balls and other objects of rotation. F. E. Canda. No. 1,337,640; Apr. 20; v. 273; p. 501.
Rolling-mill shearing and piling apparatus. H. G. O'Brien. No. 1,337,464; Apr. 20; v. 273; p. 468.
Roofing-grit, Method and apparatus for treating. A. B. Cooke. No. 1,337,822; Apr. 20; v. 273; p. 536.
Rotary engine. F. E. Glaze. No. 1,337,218; Apr. 20; v. 273; p. 421.
Round-top work. J. Ruoff. No. 1,337,485; Apr. 20; v. 273; p. 472.
Rubber, Method and apparatus for treating. E. A. Wullenweber. No. 1,337,536; Apr. 20; v. 273; p. 482.
Rupture-pad. T. Pachali, Sr. No. 1,337,790; Apr. 20; v. 273; p. 530.
Safe-lock. J. Boryk. No. 1,337,386; Apr. 20; v. 273; p. 453.
Safe-lock. W. J. B. Harris. No. 1,337,554; Apr. 20; v. 273; p. 485.
Saggars, Method of and means for producing. F. J. Wolff. No. 1,337,871; Apr. 20; v. 273; p. 545.
Sal ammoniac, Metamorphous. C. Pfanstiehl. No. 1,337,665; Apr. 20; v. 273; p. 506.
Sand-drier. C. W. Hall. No. 1,337,220; Apr. 20; v. 273; p. 422.
Sand, Method of and apparatus for collecting and delivering. J. R. Sensibar. No. 1,337,279; Apr. 20; v. 273; p. 433.
Sand-mixing machine. R. C. Stokes. No. 1,337,373; Apr. 20; v. 273; p. 451.
Sash-operating mechanism. A. McAllister. No. 1,337,461; Apr. 20; v. 273; p. 467.
Sash stop, Window-. T. Wertz and F. W. Springmeyer. No. 1,337,495; Apr. 20; v. 273; p. 474.
Saw-grinding machines, Device for setting the shafts of. W. Toups. No. 1,337,293; Apr. 20; v. 273; p. 436.
Sawing apparatus, Tree-. V. N. Dmitriff. No. 1,337,395; Apr. 20; v. 273; p. 455.
Screen: *See*—
Wind-shield screen.
Sealed receptacle, Hermetically-. W. E. Taylor. No. 1,337,491; Apr. 20; v. 273; p. 473.
Scaping-machine. O. Dorthen. No. 1,337,890; Apr. 20; v. 273; p. 549.
Screens, shades, and curtains, Combination bracket for. S. Heath. No. 1,337,768; Apr. 20; v. 273; p. 526.
Seal. E. Reich. No. 1,337,985; Apr. 20; v. 273; p. 568.
Seam-pressing machine. J. Denemark. No. 1,337,204; Apr. 20; v. 273; p. 419.
Seat: *See*—
Cart-seat.
Closet-seat.
Revoluble seat.
Sectional bolt. C. K. Wightman. No. 1,337,807; Apr. 20; v. 273; p. 533.
Sediment-drainage, Means of. B. F. Fowler. No. 1,337,215; Apr. 20; v. 273; p. 421.
Separable fastener. C. A. Miller. No. 1,337,785; Apr. 20; v. 273; p. 529.
Sewage disposal, Apparatus for. L. P. Berry, Jr. No. 1,337,431; Apr. 20; v. 273; p. 461.
Sextant. H. A. Hughes and T. Y. Baker. No. 1,337,912; Apr. 20; v. 273; p. 553.
Shade and curtain fixture. W. Ojczyk. No. 1,337,615; Apr. 20; v. 273; p. 496.
Shade and curtain hanger, Window. J. C. Dodson. No. 1,337,827; Apr. 20; v. 273; p. 537.
Shaft-coupling. C. H. Clark. No. 1,337,642; Apr. 20; v. 273; p. 501.
Shearing-machines, Clamping device for. T. H. Webb and C. J. Rhodes. No. 1,337,675; Apr. 20; v. 273; p. 508.
Sheave-block. H. L. Brink. No. 1,337,341; Apr. 20; v. 273; p. 445.
Shells and other explosive missiles, Firing mechanism for. G. L. McAlpine. No. 1,337,525; Apr. 20; v. 273; p. 480.
Ship-salvage device. M. Hyszka. No. 1,337,601; Apr. 20; v. 273; p. 494.
Ships, Device for locating sunken. G. Alexovits. No. 1,337,383; Apr. 20; v. 273; p. 453.
Ships, Means for propelling and steering. C. de Cazen. No. 1,337,442; Apr. 20; v. 273; p. 463.
Shirt. N. Kaplan. No. 1,337,917; Apr. 20; v. 273; p. 554.
Shock-absorber. T. Davis. No. 1,337,345; Apr. 20; v. 273; p. 446.
Shock-absorber. T. Davis. No. 1,337,346; Apr. 20; v. 273; p. 446.
Shock-absorber and axle-reinforcement. J. D. Teller. No. 1,337,291; Apr. 20; v. 273; p. 435.
Shock-loaders, Frame-elevating means for. N. P. Albertson. No. 1,337,874; Apr. 20; v. 273; p. 546.
Shoe and counter therefor, Welt-. J. B. Hadaway. No. 1,337,219; Apr. 20; v. 273; p. 422.
Shoe-press, Pneumatic. C. J. Stuart. No. 1,337,532; Apr. 20; v. 273; p. 481.
Shovel: *See*—
Power-shovel.
Shuttle thread-eye. G. M. Cheney and L. C. Harwood. No. 1,337,389; Apr. 20; v. 273; p. 454.
Signal: *See*—
Automobile-signal.
Railway-signal.
Signal-post. W. O'Toole. No. 1,337,947; Apr. 20; v. 273; p. 560.
Signaling device. C. F. Scheli. No. 1,337,669; Apr. 20; v. 273; p. 507.
Signaling device, Audible. C. Schroeder. No. 1,337,277; Apr. 20; v. 273; p. 433.
Signaling device, Vehicle. C. Ahlswede. No. 1,337,185; Apr. 20; v. 273; p. 415.
Signaling mechanism. F. R. McMurry. No. 1,337,783; Apr. 20; v. 273; p. 529.
Signaling system, Electric. F. N. Reeves. No. 1,337,482; Apr. 20; v. 273; p. 471.
Sizer and grader. A. M. O'Quinn. No. 1,337,257; Apr. 20; v. 273; p. 429.
Slicing-machine. A. M. Demuth. No. 1,337,596; Apr. 20; v. 273; p. 493.
Snubber. C. L. Baender. No. 1,337,878; Apr. 20; v. 273; p. 547.
Soap-holder. S. Szuba. No. 1,337,852; Apr. 20; v. 273; p. 541.
Soap-holder. E. K. Wolfe. No. 1,337,535; Apr. 20; v. 273; p. 482.
Soil pulverizer and packer, Tandem. H. C. Babcock and J. H. McCreary. No. 1,337,425; Apr. 20; v. 273; p. 460.
Sound-reproducing mechanism, Time control for. A. C. Dittrich. No. 1,337,759; Apr. 20; v. 273; p. 524.
Sound-reproducing mechanism, Time control for. A. C. Dittrich. No. 1,337,760; Apr. 20; v. 273; p. 524.
Spark - gap - controlling device. G. H. Taber. No. 1,337,853; Apr. 20; v. 273; p. 542.
Spark-plug. A. Gates. No. 1,337,216; Apr. 20; v. 273; p. 421.
Spark-plug. W. C. Rentz. No. 1,337,959; Apr. 20; v. 273; p. 562.
Spark-plug. M. S. Williams. No. 1,337,679; Apr. 20; v. 273; p. 508.
Spear. E. Gray. No. 1,337,902; Apr. 20; v. 273; p. 551.
Spectacle-temple. I. M. Schwab. No. 1,337,330; Apr. 20; v. 273; p. 443.
Spectacles and eyeglasses, Rimless. R. H. Bradshaw. No. 1,337,818; Apr. 20; v. 273; p. 535.
Speech-reproducing device. G. F. Atwood. No. 1,337,304; Apr. 20; v. 273; p. 438.
Speed-governor control, Variable-. W. W. Wells. No. 1,337,865; Apr. 20; v. 273; p. 544.
Speed mechanism, Variable-. O. S. Jeffries, Sr. No. 1,337,602; Apr. 20; v. 273; p. 494.
Speed-transmission mechanism, Variable-. R. G. Altvater. No. 1,337,578; Apr. 20; v. 273; p. 489.
Spindles, Device for connecting tools to. W. F. Groene. No. 1,337,313; Apr. 20; v. 273; p. 440.
Spoon, Skimming-. C. F. Beaufrere. No. 1,337,814; Apr. 20; v. 273; p. 534.
Spraying attachment. J. W. Burbank. No. 1,337,589; Apr. 20; v. 273; p. 492.
Spring: *See*—
Bed-spring.
Door-spring.
Spring-motor. O. E. Boas. No. 1,337,385; Apr. 20; v. 273; p. 453.
Spring-wheel. G. W. and T. B. Shropshire. No. 1,337,569; Apr. 20; v. 273; p. 488.
Stamping device, Hand. E. G. Clark. No. 1,337,591; Apr. 20; v. 273; p. 492.
Stanchion, Animal-. J. M. B. Lewis. No. 1,337,925; Apr. 20; v. 273; p. 556.
Stanchion, Animal-. J. M. B. Lewis. No. 1,337,927; Apr. 20; v. 273; p. 556.
Stand: *See*—
Rim-holding stand.
Steam-generator fitted with superheater. J. H. Hume. No. 1,337,653; Apr. 20; v. 273; p. 503.
Steel, High-speed. W. L. E. Ellender. No. 1,337,209; Apr. 20; v. 273; p. 420.
Steel, High-speed tool-. W. L. E. Ellender. No. 1,337,210; Apr. 20; v. 273; p. 420.
Stepladder. M. E. Kelleher. No. 1,337,657; Apr. 20; v. 273; p. 504.
Stepladder. A. J. Remalia. No. 1,337,666; Apr. 20; v. 273; p. 506.
Stopper: *See*—
Receptacle-stopper.
Vaporizing-stopper.
Storm and screen window hanger. S. G. Calvelage. No. 1,337,689; Apr. 20; v. 273; p. 511.
Stove, Gas-. N. Schmitt. No. 1,337,413; Apr. 20; v. 273; p. 458.
Stove-top plate. W. E. Jordan. No. 1,337,774; Apr. 20; v. 273; p. 527.
Stove-trimming. J. Jungers. No. 1,337,605; Apr. 20; v. 273; p. 495.
Strainer, Air-. F. S. Orem. No. 1,337,564; Apr. 20; v. 273; p. 487.
Strainer or receptacle. T. W. Gilmer. No. 1,337,898; Apr. 20; v. 273; p. 851.
Supervisory system. H. P. Clausen. No. 1,337,753; Apr. 20; v. 273; p. 523.

Sweeper. F. L. Collis. No. 1,337,199; Apr. 20; v. 273; p. 418.

Switch: *See*—
Automatic switch. Battery-switch.
Automatic selecting-switch. Electric switch.

Syringe. G. T. Pearsons. No. 1,337,467; Apr. 20; v. 273; p. 468.

Table: *See*—
Automobile auxiliary table. Chiropractic table.

Tablet, Writing-. J. Frank. No. 1,337,835; Apr. 20; v. 273; p. 538.

Tag, Price-. S. B. Bedinger. No. 1,337,586; Apr. 20; v. 273; p. 491.

Talking-machines, Record-holding cabinet for. R. D. Allen. No. 1,337,812; Apr. 20; v. 273; p. 534.

Tank-heater. T. Severson. No. 1,337,800; Apr. 20; v. 273; p. 531.

Tank-regulator, Automatic W. M. Fulton. (Reissue.) No 14,843; Apr. 20; v. 273; p. 568.

Tar-extractor apparatus and method. J. Becker. No. 1,337,984; Apr. 20; v. 273; p. 567.

Telegraph system. J. H. Bell. No. 1,337,748; Apr. 20; v. 273; p. 522.

Telephone-amplifier. H. C. Egerton. No. 1,337,694; Apr. 20; v. 273; p. 512.

Telephone-booth controller. G. E. Thum and M. Theimer. No. 1,337,858; Apr. 20; v. 273; p. 543.

Telephone-exchange apparatus. J. N. Reynolds. No. 1,337,325; Apr. 20; v. 273; p. 442.

Telephone-exchange system. H. P. Clausen. No. 1,337,197; Apr. 20; v. 273; p. 417.

Telephone-exchange system. H. P. Clausen. No. 1,337,754; Apr. 20; v. 273; p. 523.

Telephone-exchange system. H. P. Clausen. No. 1,337,755; Apr. 20; v. 273; p. 523.

Telephone-exchange system. W. L. Dodge. No. 1,337,761; Apr. 20; v. 273; p. 524.

Telephone-exchange system. W. H. Harrison. No. 1,337,471; Apr. 20; v. 273; p. 469.

Telephone-exchange system. A. E. Lundell. No. 1,337,711; Apr. 20; v. 273; p. 515.

Telephone-exchange system. A. E. Lundell. No. 1,337,782; Apr. 20; v. 273; p. 528.

Telephone-exchange system. J. L. McQuarrie. No. 1,337,714; Apr. 20; v. 273; p. 516.

Telephone-exchange system. A. B. Sperry. No. 1,337,671; Apr. 20; v. 273; p. 507.

Telephone-exchange system. H. W. Ulrich. No. 1,337,297; Apr. 20; v. 273; p. 437.

Telephone-exchange system. T. Van Amstel. No. 1,337,736; Apr. 20; v. 273; p. 520.

Telephone-exchange system. R. S. Wilbur. No. 1,337,301; Apr. 20; v. 273; p. 437.

Telephone-exchange system. S. B. Williams, Jr. No. 1,337,681; Apr. 20; v. 273; p. 509.

Telephone-exchange system. S. B. Williams, Jr., and C. F. Baldwin. No. 1,337,740; Apr. 20; v. 273; p. 521.

Telephone-exchange system, Machine-switching. A. E. Lundell. No. 1,337,710; Apr. 20; v. 273; p. 515.

Telephone-receiver. J. A. Wotton. No. 1,337,741; Apr. 20; v. 273; p. 521.

Telephone receiver and receiver-switch. A. Engelberg. No. 1,337,892; Apr. 20; v. 273; p. 550.

Telephone-reminder. J. Jasina. No. 1,337,319; Apr. 20; v. 273; p. 441.

Telephone set. W. G. Crawford. No. 1,337,692; Apr. 20; v. 273; p. 511.

Telephone system. L. W. Carroll. No. 1,337,752; Apr. 20; v. 273; p. 523.

Telephone system. C. L. Goodrum. No. 1,337,309; Apr. 20; v. 273; p. 439.

Telephone system. C. L. Goodrum. No. 1,337,310; Apr. 20; v. 273; p. 439.

Telephone system. C. L. Goodrum. No. 1,337,699; Apr. 20; v. 273; p. 513.

Telephone system. J. E. Hilbish. No. 1,337,976; Apr. 20; v. 273; p. 566.

Telephone system. A. E. Lundell. No. 1,337,712; Apr. 20; v. 273; p. 515.

Telephone system. J. L. McQuarrie. No. 1,337,713; Apr. 20; v. 273; p. 515.

Telephone system. J. L. McQuarrie. No. 1,337,715; Apr. 20; v. 273; p. 516.

Telephone system. R. S. Wilbur and W. H. Harrison. No. 1,337,676; Apr. 20; v. 273; p. 508.

Telephone system, Automatic. W. T. Powell. No. 1,337,324; Apr. 20; v. 273; p. 442.

Telephone system, Two-wire party-line lockout. T. G. Martin. (Reissue.) No. 14,846; Apr. 20; v. 273; p. 569.

Temperature regulator, Fluid-. W. Hodgson. No. 1,337,701; Apr. 20; v. 273; p. 513.

Therapeutic apparatus for treatment of the lower portion of the body. V. L. Ruiter. No. 1,337,798; Apr. 20; v. 273; p. 531.

Thermostat. A. J. Otto. No. 1,337,529; Apr. 20; v. 273; p. 480.

Thermostat. A. G. Stephenson. No. 1,337,623; Apr. 20; v. 273; p. 498.

Thermostat, High-temperature. A. J. Otto. No. 1,337,367; Apr. 20; v. 273; p. 450.

Thermostatic systems, Electrothermic motor for. E. E. Gold. No. 1,337,764; Apr. 20; v. 273; p. 525.

Ticket-dispensing machine, Automatic. J. L. Gore. No. 1,337,837; Apr. 20; v. 273; p. 539.

Timer, Automatic. I. L. Slawter. No. 1,337,282; Apr. 20; v. 273; p. 434.

Timing apparatus. I. B. Smith. No. 1,337,335; Apr. 20; v. 273; p. 444.

Tire. J. G. Summers. No. 1,337,289; Apr. 20; v. 273; p. 435.

Tire-carrier. T. A. Hoover. No. 1,337,911; Apr. 20; v. 273; p. 553.

Tire-filler. J. H. North. No. 1,337,528; Apr. 20; v. 273; p. 480.

Tire, Pneumatic. E. P. Altenburg. No. 1,337,813; Apr. 20; v. 273; p. 534.

Tire, Pneumatic. E. B. Killen. No. 1,337,660; Apr. 20; v. 273; p. 505.

Tire, Resilient. D. J. Demas. No. 1,337,443; Apr. 20; v. 273; p. 464.

Tire-protector. L. F. Petey. No. 1,337,950; Apr. 20; v. 273; p. 561.

Tire-tube-making apparatus. D. Lowe. No. 1,337,930; Apr. 20; v. 273; p. 557.

Tires and mechanism for practising the same, Forming. H. J. Doughty. No. 1,337,207; Apr. 20; v. 273; p. 419.

Tires, Pneumatic core for repairing. A. L. Johnson and A. O. Alsten. No. 1,337,707; Apr. 20; v. 273; p. 514.

Tongs, Pipe-. H. W. Fletcher. No. 1,337,509; Apr. 20; v. 273; p. 476.

Tool, Filing-. C. C. Morey. No. 1,337,940; Apr. 20; v. 273; p. 559.

Tool, Overshot fishing-. E. A. Kliewer. No. 1,337,476; Apr. 20; v. 273; p. 470.

Tool, Wire-bending. V. Olhovsky. No. 1,337,616; Apr. 20; v. 273; p. 497.

Tool, Wire-scraping. A. Lichtenstein. No. 1,337,236; Apr. 20; v. 273; p. 425.

Tools, Means for lubricating machine-. W. F. McCarty. No. 1,337,931; Apr. 20; v. 273; p. 557.

Torpedo, Aero-submarine. E. A. Rider. No. 1,337,960; Apr. 20; v. 273; p. 563.

Torpedo capturing and destroying net. E. Kohler. No. 1,337,920; Apr. 20; v. 273; p. 555.

Torpedo-guard. K. Babecki. No. 1,337,502; Apr. 20; v. 273; p. 475.

Torpedo, Signaling-. W. T. McCullough. No. 1,337,240; Apr. 20; v. 273; p. 426.

Toy. A. V. De Costa. No. 1,337,758; Apr. 20; v. 273; p. 524.

Toy. M. Lalonde. No. 1,337,661; Apr. 20; v. 273; p. 505.

Toy. C. S. Simmons. No. 1,337,570; Apr. 20; v. 273; p. 488.

Toy. F. Garrigue. No. 1,337,354; Apr. 20; v. 273; p. 447.

Toy building and design block. C. F. Lorenzen. No. 1,337,664; Apr. 20; v. 273; p. 506.

Toy, Figured. C. D. McClellan and J. Flynn. No. 1,337,932; Apr. 20; v. 273; p. 557.

Toy gun. M. Schoen. No. 1,337,967; Apr. 20; v. 273; p. 564.

Toy horse, Mechanical. G. W. Walker. No. 1,337,300; Apr. 20; v. 273; p. 437.

Toy horse, Walking. A. H. Loomis. No. 1,337,479; Apr. 20; v. 273; p. 470.

Toy, Mechanical. J. V. Irenius. No. 1,337,705; Apr. 20; v. 273; p. 514.

Toy, Revolving. L. Romaniello. No. 1,337,483; Apr. 20; v. 273; p. 471.

Tracking device. A. A. Page. No. 1,337,530; Apr. 20; v. 273; p. 481.

Tractor and repeller, Combination. P. C. Jubl. No. 1,337,841; Apr. 20; v. 273; p. 539.

Tractor draw-bar. J. Lauer, Jr. No. 1,337,521; Apr. 20; v. 273; p. 479.

Tractor unit. G. S. Groves. No. 1,337,905; Apr. 20; v. 273; p. 552.

Tractors, Track-wheel suspension for track-laying. M. B. Morgan. No. 1,337,787; Apr. 20; v. 273; p. 529.

Train-control system. W. B. Murray. No. 1,337,255; Apr. 20; v. 273; p. 429.

Tree-shaker. L. M. Fleckner. No. 1,337,398; Apr. 20; v. 273; p. 456.

Trees, Destroying scale on citrus. H. Blumenberg. No. 1,337,538; Apr. 20; v. 273; p. 482.

Truck. W. Hyden. No. 1,337,914; Apr. 20; v. 273; p. 554.

Truck, Box or case. C. K. Carlson. No. 1,337,438; Apr. 20; v. 273; p. 463.

Truck for emptying and refilling dry kilns, Dry-kiln. L. E. Carter. No. 1,337,439; Apr. 20; v. 273; p. 463.

Truck, Industrial. M. S. Towson and C. E. Cochran. No. 1,337,804; Apr. 20; v. 273; p. 532.

Tubing-coupling. J. H. Dohner. No. 1,337,547; Apr. 20; v. 273; p. 484.

Tunnel-block. C. G. Hastings. No. 1,337,767; Apr. 20; v. 273; p. 526.

Turbines, Gearing for steam or gas. O. A. Wiberg and G. Karlsson. No. 1,337,376; Apr. 20; v. 273; p. 452.

Twisting and winding machine. A. J. Kent. No. 1,337,658; Apr. 20; v. 273; p. 505.

Typewriter. F. W. Hillard. No. 1,337,977; Apr. 20; v. 273; p. 566.

Typewriter. Disk. D. Jankower. No. 1,337,318; Apr. 20; v. 273; p. 441.

Typewriters, Ribbon-inking attachment for. W. Pain. No. 1,337,980; Apr. 20; v. 273; p. 567.

Typewriting-machine. H. P. Nordmark. No. 1,337,563; Apr. 20; v. 273; p. 486.

Undergarment, Lady's. U. R. Boyd. No. 1,337,883; Apr. 20; v. 273; p. 548.

Vacuum-receptacle construction. G. O. Schulz. No. 1,337,278; Apr. 20; v. 273; p. 433.

Vacuum-suction plate. C. N. Reese. No. 1,337,622; Apr. 20; v. 273; p. 498.

Valve. E. C. Marulli. No. 1,337,462; Apr. 20; v. 273; p. 467.

Valve for acetylene-gas generators, Carbid controlling and dumping. F. A. Webb. No. 1,337,805; Apr. 20; v. 273; p. 532.

Valve for chambered heat-insulating walls. J. J. Mendenhall. No. 1,337,611; Apr. 20; v. 273; p. 496.

Valve or faucet, Mixing-. J. L. T. Popp. No. 1,337,952; Apr. 20; v. 273; p. 561.

Valve, Pneumatic-tire. J. O. Helliwell. No. 1,337,316; Apr. 20; v. 273; p. 440.

Valve, Spray-. A. B. Holmes and T. M. Dugan. No. 1,337,516; Apr. 20; v. 273; p. 578.

Valve-spring compressor. A. B. Lockhart. (Reissue.) No. 14,845; Apr. 20; v. 273; p. 569.

Valve-stems, Quick-acting dust-cap for inflating. W. L. Richards. No. 1,337,371; Apr. 20; v. 273; p. 451.

Valve-testing device. E. Coleman. No. 1,337,390; Apr. 20; v. 273; p. 454.

Valve unit, Thermostatic-. C. I. Hall. No. 1,337,907; Apr. 20; v. 273; p. 552.

Vaporizing-stopper. E. W. Austin. No. 1,337,189; Apr. 20; v. 273; p. 416.

Varnish, Preparing. C. T. Bragg. No. 1,337,749; Apr. 20; v. 273; p. 522.

Vault, Burial-. H. M. Knight. No. 1,337,559; Apr. 20; v. 273; p. 486.

Vehicle. H. L. Call. No. 1,337,437; Apr. 20; v. 273; p. 463.

Vehicle-curtain light, Detachable. D. M. Winans. No. 1,337,302; Apr. 20; v. 273; p. 438.

Vehicle-lock. J. P. Lind. No. 1,337,709; Apr. 20; v. 273; p. 515.

Vehicle shock-absorber. W. N. Amory. No. 1,337,579; Apr. 20; v. 273; p. 490.

Vehicles, Automatic draw-bar coupling for. A. L. Cooper. No. 1,337,391; Apr. 20; v. 273; p. 454.

Vehicles, Auxiliary traction-wheel for motor-. H. G. Steele. No. 1,337,672; Apr. 20; v. 273; p. 507.

Vehicles, Combined collision-buffer and direction-indicator for. F. C. Zahnow. No. 1,337,872; Apr. 20; v. 273; p. 546.

Vehicles, Direction-indicator for dirigible. W. Pendziwiater. No. 1,337,848; Apr. 20; v. 273; p. 541.

Vehicles, Sleigh-runner attachment for. B. Fisch. No. 1,337,833; Apr. 20; v. 273; p. 538.

Vehicles, Steering device for motor-. F. Ellwein. No. 1,337,830; Apr. 20; v. 273; p. 537.

Ventilator. J. C. Turvene. No. 1,337,296; Apr. 20; v. 273; p. 436.

Ventilator for light-projectors or lanterns. S. and J. W. Ewart and N. W. Praugnell. No. 1,337,832; Apr. 20; v. 273; p. 538.

Vessel-filling device. T. S. Bailey. No. 1,337,743; Apr. 20; v. 273; p. 521.

Vessel, Marine. J. Batorfy. No. 1,337,747; Apr. 20; v. 273; p. 522.

Vessels, Apparatus for raising sunken. H. M. Meguerditchian. No. 1,337,250; Apr. 20; v. 273; p. 427.

Vessels, Protecting means for. A. Winton. No. 1,337,809; Apr. 20; v. 273; p. 533.

Violin-support. A. Lappalainen. No. 1,337,459; Apr. 20; v. 273; p. 467.

Vulcanizer. A. B. Zwebell. No. 1,337,631; Apr. 20; v. 273; p. 499.

Wagon, Tower-. G. Schlatter. No. 1,337,487; Apr. 20; v. 273; p. 472.

Wall-flashing. W. L. Hawley. No. 1,337,840; Apr. 20; v. 273; p. 539.

Washer: *See*—
Glass-washer.

Washing-machine. J. B. Kirby. No. 1,337,453; Apr. 20; v. 273; p. 466.

Washing-machine cylinders, Driving connection to. G. F. Freed. No. 1,337,552; Apr. 20; v. 273; p. 484.

Washtub. E. B. Richmond. No. 1,337,272; Apr. 20; v. 273; p. 432.

Water-heater. C. E. Jeannotte. No. 1,337,473; Apr. 20; v. 273; p. 469.

Water through hose, Means for controlling the flow of. C. J. Maier. No. 1,337,247; Apr. 20; v. 273; p. 427.

Watering bowl, Stock-. F. H. Bogda. No. 1,337,636; Apr. 20; v. 273; p. 500.

Wave form, Producing currents of desired. H. J. Van der Bijl. No. 1,337,737; Apr. 20; v. 273; p. 520.

Weather-strip. F. A. Dillingham. No. 1,337,394; Apr. 20; v. 273; p. 455.

Weed-cutter. W. F. Kasper. No. 1,337,655; Apr. 20; v. 273; p. 504.

Weed-destroyer and ground-sterilizer. J. W. Nicholson and C. Fowler. No. 1,337,562; Apr. 20; v. 273; p. 486.

Weeding-machine. A. E. Piper. No. 1,337,721; Apr. 20; v. 273; p. 517.

Weft-carrier-releasing device. C. S. Wright. No. 1,337,683; Apr. 20; v. 273; p. 509.

Weighing-machines, Closing device for the material receptacles of automatic. J. Lambertz. No. 1,337,842; Apr. 20; v. 273; p. 540.

Welding appliance, Electric. R. P. La Porte. No. 1,337,662; Apr. 20; v. 273; p. 505.

Welding, Metallic-arc. J. Churchward. No. 1,337,543; Apr. 20; v. 273; p. 483.

Wheel: *See*—
Detachable wheel. Spring-wheel.

Wheel. J. W. Williams. No. 1,337,869; Apr. 20; v. 273; p. 545.

Wheel-hub and forming same. J. R. Winter. No. 1,337,808; Apr. 20; v. 273; p. 533.

Wheel-rims, Sectional. M. A. and L. M. Endres. No. 1,337,446; Apr. 20; v. 273; p. 464.

Wheels, Spring-tire for vehicle-. C. Drabek. No. 1,337,445; Apr. 20; v. 273; p. 464.

Wind-shield screen. W. B. Herbst. No. 1,337,472; Apr. 20; v. 273; p. 469.

Winding-machine. E. H. Ryon. No. 1,337,727; Apr. 20; v. 273; p. 518.

Window-lock. F. Haldeman. No. 1,337,513; Apr. 20; v. 273; p. 477.

Windows, sashes, shutters, Actuating mechanism for. A. D. Kumpf. No. 1,337,776; Apr. 20; v. 273; p. 527.

Windlass, Automobile-. M. A. Davis. No. 1,337,754; Apr. 20; v. 273; p. 524.

Wire-fabric machine. H. W. Bloemker. No. 1,337,504; Apr. 20; v. 273; p. 476.

Wood distillation. C. T. Clark. No. 1,337,342; Apr. 20; v. 273; p. 445.

Woodworking-machine. R. D. Emery. No. 1,337,695; Apr. 20; v. 273; p. 512.

Work-holding device. A. R. J. Wilkinson. No. 1,337,677; Apr. 20; v. 273; p. 508.

Work-support. E. H. Bastable. No. 1,337,190; Apr. 20; v. 273; p. 416.

Workbench, crane, and engine-stand combined. J. M. Mattis. No. 1,337,847; Apr. 20; v. 273; p. 541.

Wrench. D. Forniraseo. No. 1,337,550; Apr. 20; v. 273; p. 484.

Wrench. J. H. Williams. No. 1,337,678; Apr. 20; v. 273; p. 508.

X-ray transformer. W. D. Coolidge. No. 1,337,885; Apr. 20; v. 273; p. 548.

X-ray tube-stand and table. E. E. Greville. No. 1,337,904; Apr. 20; v. 273; p. 552.

X-rays, Method of and apparatus for producing. C. D. Ehret. No. 1,337,349; Apr. 20; v. 273; p. 447.

Yarn in the form of hanks, skeins, or the like, Dyeing, washing, and similarly treating. J. Annica. No. 1,337,877; Apr. 20; v. 273; p. 547.

ALPHABETICAL LIST OF DESIGNS.

Airship-body. C. W. Manzel. No. 54,947; Apr. 20; v. 273; p. 580.

Art-panel, banner, or flag. Embroidered. M. J. Gordon. Nos. 54,909–10; Apr. 20; v. 273; p. 573.

Article of manufacture. E. Ericson. No. 54,905; Apr. 20; v. 273; p. 573.

Article of manufacture. G. M. Fauser. No. 54,906; Apr. 20; v. 273; p. 573.

Article of manufacture—namely, screen for sound-outlets of graphophones. W. A. Sommerhof. Nos. 54,908–9; Apr. 20; v. 273; p. 583.

Banner. E. M. Martin. No. 54,948; Apr. 20; v. 273; p. 580.

Burner support, Gaseous-fuel-. H. McKinnie. No. 54,949; Apr. 20; v. 273; p. 580.

Bathing-cap or similar article. F. W. Dodge. Nos. 54,900–1; Apr. 30; v. 273; p. 572.

Bodice. R. Krauziewicz. No. 54,932; Apr. 20; v. 273; p. 577.

Bolt for window-frames, Head for a. W. W. Sleight. No. 54,964; Apr. 20; v. 273; p. 583.

Boot, High. F. G. Chamberlin. No. 54,895; Apr. 20; v. 273; p. 571.

Bottle. J. Morrison. No. 54,977; Apr. 20; v. 273; p. 585.

Bracelet, Watch-. A. Levin and J. Medin. No. 54,936; Apr. 20; v. 273; p. 578.

Cabinet for talking-machines. E. T. Kieffer. Nos. 54,928–9; Apr. 20; v. 273; pp. 576–7.

Cabinet, Phonograph-. O. Elison. No. 54,904; Apr. 20; v. 273; p. 572.

Cabinet, Phonograph-. W. A. Mangless. Nos. 54,945–6; Apr. 20; v. 273; p. 580.

Casserole or baking-dish and cover, Glass. R. Haley. No. 54,914; Apr. 20; v. 273; p. 574.

China tableware article. C. Firth. No. 54,907; Apr. 20; v. 273; p. 573.

Container. J. C. Morrison. No. 54,951; Apr. 20; v. 273; p. 581.

Dish. D. G. Norman. No. 54,954; Apr. 20; v. 273; p. 581.
Dish or similar article. E. J. Ridgeway. Nos. 54,957–9; Apr. 20; v. 273; p. 582.
Dish, Transparent cooking-. W. Churchill. Nos. 54,898–9; Apr. 20; v. 273; p. 572.
Doll. A. Hermelin. No. 54,919; Apr. 20; v. 273; p. 575.
Doll. J. W. MacBoyle. No. 54,939; Apr. 20; v. 273; p. 578.
Doll figure. F. O. Brockman. No. 54,888; Apr. 20; v. 273; p. 570.
Dustpan. N. Brulé. No. 54,891; Apr. 20; v. 273; p. 570.
Fastener. W. A. Schuler. No. 54,961; Apr. 20; v. 273; p. 582.
Flag, Christian-service. A. G. Trimble. No. 54,972; Apr. 20; v. 273; p. 584.
Flag-holder. H. K. Lorentzen. No. 54,937; Apr. 20; v. 273; p. 578.
Game. J. Haro. No. 54,915; Apr. 20; v. 273; p. 574.
Garment-hanger. H. E. Schneider. No. 54,960; Apr. 20; v. 273; p. 582.
Gem-mounting. C. T. Wittstein. No. 54,976; Apr. 20; v. 273; p. 585.
Glass, Sheet-. E. G. Johanson. No. 54,925; Apr. 20; v. 273; p. 576.
Glassware article. C. P. Sollmann. No. 54,967; Apr. 20; v. 273; p. 583.
Harp. D. Campbell. Nos. 54,892–3; Apr. 20; v. 273; pp. 570–1.
Headlight-bracket. J. L. P. Landry. No. 54,935; Apr. 20; v. 273; p. 578.
Heater, Electric. F. C. Boyd. No. 54,887; Apr. 20; v. 273; p. 570.
Heater, Electric. E. N. Brown. Nos. 54,889–90; Apr. 20; v. 273; p. 570.
Heater, Electric. S. M. Knapp. No. 54,930; Apr. 20; v. 273; p. 577.
Heel for a boot, shoe, or similar article. O. G. Lyon. No. 54,938; Apr. 20; v. 273; p. 578.
Ice-cream-service container, Individual. J. P. Reily. No. 54,956; Apr. 20; v. 273; p. 581.
Jar, Casing for a vacuum-insulated. G. P. Altenberg. No. 54,884; Apr. 20; v. 273; p. 569.
Legging. F. G. Chamberlin. No. 54,896; Apr. 20; v. 273; p. 571.
Light. O. C. Newton. No. 54,952; Apr. 20; v. 273; p. 581.
Moccasin. L. Charest. No. 54,897; Apr. 20; v. 273; p. 571.
Monument. F. A. Grearson. No. 54,911; Apr. 20; v. 273; p. 574.
Nail-set. G. O. Carlson. No. 54,894; Apr. 20; v. 273; p. 571.
Necktie. W. D. Niederer. No. 54,953; Apr. 20; v. 273; p. 581.
Pin. L. D. Hackett. No. 54,913; Apr. 20; v. 273; p. 574.
Pincushion. J. La Croix. No. 54,934; Apr. 20; v. 273; p. 577.
Powder-can or similar receptacle. C. S. Humphrey. No. 54,923; Apr. 20; v. 273; p. 576.
Powder-container. C. S. Humphrey. No. 54,922; Apr. 20; v. 273; p. 575.
Powder-container or similar receptacle. C. S. Humphrey. No. 54,924; Apr. 20; v. 273; p. 576.
Push-button. C. J. Schwarze. No. 54,902; Apr. 20; v. 273; p. 582.
Ring, Wedding-. C. L. Trout. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
Rubber ball. R. C. Eddy. No. 54,903; Apr. 20; v. 273; p. 572.
Salt and pepper basket. R. E. Harris and R. L. Chance. No. 54,916; Apr. 20; v. 273; p. 916.
Shingle-simulating strip. O. A. Heppes. No. 54,919; Apr. 20; v. 273; p. 575.
Shirt. C. L. Talbot. No. 54,970; Apr. 20; v. 273; p. 584.
Statuette. F. A. Koch. No. 54,931; Apr. 20; v. 273; p. 577.
Store-front. M. Gillette. No. 54,908; Apr. 20; v. 273; p. 573.
Telephone-support, Substation. E. A. Bohlman. No. 54,886; Apr. 20; v. 273; p. 569.
Time-table, advertising-board, and clock, Combined. J. L. Kahles. No. 54,927; Apr. 20; v. 273; p. 576.
Timepiece-dial. H. S. Montgomery. No. 54,950; Apr. 20; v. 273; p. 580.
Tire. W. H. Grote. No. 54,912; Apr. 20; v. 273; p. 574.
Tire, Automobile-. P. P. Parker. No. 54,955; Apr. 20; v. 273; p. 581.
Tire, Elastic vehicle-. G. P. Hoffman. Nos. 54,919–21; Apr. 20; v. 273; p. 575.
Tire-tread. C. J. Venn. No. 54,975; Apr. 20; v. 273; p. 584.
Toy. I. Dunbar and F. Norris. No. 54,902; Apr. 20; v. 273; p. 572.
Toy. M. E. Shugg. No. 54,963; Apr. 20; v. 273; p. 582.
Toy aeroplane. C. W. Bennett. No. 54,885; Apr. 20; v. 273; p. 569.
Toy animal. L. S. Malone. Nos. 54,940–2; Apr. 20; v. 273; p. 578.
Toy bird. L. S. Malone. Nos. 54,943–4; Apr. 20; v. 273; p. 579.
Toy vehicle, Child's. R. F. Kuns. No. 54,933; Apr. 20; v. 273; p. 577.
Tray, Combination dinner-. J. H. Thompson. No. 54,971; Apr. 20; v. 273; p. 584.
Vase. T. G. Jones. No. 54,926; Apr. 20; v. 273; p. 576.
Window-frame holdfast. W. W. Sleight. Nos. 54,965–6; Apr. 20; v. 273; p. 583.

ALPHABETICAL LIST OF TRADE-MARKS.

Aeroplanes and parts, air-screws, &c. A. V. Roe & Co., Ltd. No. 130,395; Apr. 20; v. 273; p. 623.
Agricultural machinery. Massey-Harris Harvester Co. No. 130,361; Apr. 20; v. 273; p. 622.
Automobile-steering-post-locking devices. Russell Sales Co. No. 130,398; Apr. 20; v. 273; p. 623.
Automobiles and automobile-bodies. Noma Motor Corporation. No. 130,377; Apr. 20; v. 273; p. 622.
Automobiles and motor-trucks. José Cunill de Figuerola. No. 130,288; Apr. 20; v. 273; p. 620.
Batteries, Storage. Franklin Storage Battery Co. No. 130,296; Apr. 20; v. 273; p. 620.
Batteries, Storage. Yankee Battery Manufacturing Company. No. 130,449; Apr. 20; v. 273; p. 624.
Bearings for moving parts of machines. Massachusetts Oilless Bearings Company. Nos. 130,359–60; Apr. 20; v. 273; p. 622.
Bloomers, Gymnasium-. J. Pfrenger Sons. No. 130,386; Apr. 20; v. 273; p. 623.
Boots and shoes of leather skins, hides, &c. Huntington Shoe and Leather Company. No. 130,320; Apr. 20; v. 273; p. 621.
Butter. Geo. R. Eldridge Co. No. 130,292; Apr. 20; v. 273; p. 620.
Butter. International Merchants, Incorporated. No. 130,322; Apr. 20; v. 273; p. 621.
Cakes, wafers, crackers. Loose-Wiles Biscuit Company. Nos. 130,349–50; Apr. 20; v. 273; p. 622.
Callpers and dividers for measuring purposes. Consolidated Tool Works. No. 130,286; Apr. 20; v. 273; p. 620.
Candies. Johnson Bros. & Alexander. No. 130,323; Apr. 20; v. 273; p. 621.
Candies and chocolates. Gruenhagen's. No. 130,310; Apr. 20; v. 273; p. 620.
Candy. A. Iannella. No. 130,321; Apr. 20; v. 273; p. 621.
Candy. H. C. Small. No. 130,411; Apr. 20; v. 273; p. 623.
Candy. Melvin Candy Co. No. 130,362; Apr. 20; v. 273; p. 622.
Candy. William Beatty, Jr., & Co. No. 130,262; Apr. 20; v. 273; p. 619.
Canned corn. Clarksville Canning Co. No. 130,281; Apr. 20; v. 273; p. 620.
Canned corn and peas. Waterloo Canning Association. No. 130,440; Apr. 20; v. 273; p. 624.
Canned fish. Alaska Bakonized Fish Co. No. 130,253; Apr. 20; v. 273; p. 619.
Canned fruits. California Sanitary Canning Co. No. 130,274; Apr. 20; v. 273; p. 619.
Canned fruits and vegetables. J. Menist Company. No. 130,364; Apr. 20; v. 273; p. 622.
Canned milk. Krenning-Schlapp Grocer Company. No. 130,336; Apr. 20; v. 273; p. 621.
Canned sardines. American Mexican Packing Co. No. 130,256; Apr. 20; v. 273; p. 619.
Canned sardines. Neptune Sea Food Co. No. 130,372; Apr. 20; v. 273; p. 622.
Canned sugar-corn. Warrensburg Canning Company. No. 130,439; Apr. 20; v. 273; p. 624.
Caps. Chas. Tobias Bro. & Company. No. 130,425; Apr. 20; v. 273; p. 624.
Catsup, canned vegetables and fruits. Sterling Products Co. No. 130,417; Apr. 20; v. 273; p. 624.
Chain repair-links. A. W. Burke. No. 130,271; Apr. 20; v. 273; p. 619.
Cheese and butter. Marré & Company. No. 130,357; Apr. 20; v. 273; p. 622.
Cherries, maraschino style, Bottled. Evan W. Hook & Co. No. 130,319; Apr. 20; v. 273; p. 621.
Chocolate, cocoa, powdered milk. D. Neuman. No. 130,373; Apr. 20; v. 273; p. 622.
Clothing, &c. The Lerner Waist Co. No. 130,340; Apr. 20; v. 273; p. 621.
Coffee. Rogers Company. No. 130,396; Apr. 20; v. 273; p. 623.
Computing device, Logarithmic-scale. Lewis, Connors & Company. No. 130,344; Apr. 20; v. 273; p. 621.
Corsets. M. B. MacDonald. No. 130,353; Apr. 20; v. 273; p. 622.

Corsets. Standard Corset Company. No. 130,413; Apr. 20; v. 273; p. 623.
Cotton piece goods. Naumkeag Steam Cotton Co. No. 130,371; Apr. 20; v. 273; p. 622.
Cotton sewing-threads. Seamans & Cobb Co. No. 130,404; Apr. 20; v. 273; p. 623.
Dish-washing machines. Henry Giessel Co. No. 130,304; Apr. 20; v. 273; p. 620.
Drying-machines, Electrical lavatory. Groton Electrical Devices, Inc. No. 130,309; Apr. 20; v. 273; p. 620.
Egg-substitute powder. W. R. Hollingshead Company. No. 130,318; Apr. 20; v. 273; p. 621.
Electrical appliances. National Clutch Company. No. 130,367; Apr. 20; v. 273; p. 622.
Engines, Internal-combustion. Elgin Gas Motor Company. No. 130,293; Apr. 20; v. 273; p. 620.
Fabrics, Textile. Lamborn & Co. No. 130,338; Apr. 20; v. 273; p. 621.
Fancy goods, furnishings, and notions. Waldes & Co. No. 130,434; Apr. 20; v. 273; p. 624.
Fancy goods, furnishings, and notions. No. 130,436; Apr. 20; v. 273; p. 624.
Fans, Electric. T. E. Clark. No. 130,280; Apr. 20; v. 273; p. 619.
Feathers. Star Bedding Company. No. 130,416; Apr. 20; v. 273; p. 624.
Feed, Stock. Owensboro Products Company. No. 130,383; Apr. 20; v. 273; p. 623.
Flatirons, Electrical. Chicago Flexible Shaft Company. No. 130,279; Apr. 20; v. 273; p. 619.
Flat-ware. Oneida Community. No. 130,382; Apr. 20; v. 273; p. 623.
Flavoring extracts. C. F. Sauer Co. No. 130,403; Apr. 20; v. 273; p. 623.
Flour, Wheat-. Sperry Flour Company. No. 130,412; Apr. 20; v. 273; p. 623.
Flour, wheat cereal, &c., Buckwheat pancake-. Pillsbury Flour Mills Company. No. 130,389; Apr. 20; v. 273; p. 623.
Foods, &c. Haas, Baruch & Co. No. 130,312; Apr. 20; v. 273; p. 620.
Foods, &c. Union Pacific Tea Co. No. 130,428; Apr. 20; v. 273; p. 624.
Foods. Wilson & Co. No. 130,446; Apr. 20; v. 273; p. 624.
Foot-pads. A. B. Plummer. No. 130,390; Apr. 20; v. 273; p. 623.
Fruits, Citrus. Lake Wales Citrus Growers Association. No. 130,337; Apr. 20; v. 273; p. 621.
Fruits, Fresh. Furry Fruit & Produce Co. No. 130,300; Apr. 20; v. 273; p. 620.
Fruits, Fresh citrus. Ryan Fruit Company. No. 130,399; Apr. 20; v. 273; p. 623.
Garters. Hewes & Potter. No. 130,314; Apr. 20; v. 273; p. 620.
Garments, Men's outer. Levy & Schilt. No. 130,343; Apr. 20; v. 273; p. 621.
Garments, Young men's outer. Levy & Schilt. No. 130,342; Apr. 20; v. 273; p. 621.
Ginghams, percales, bleached muslin, &c. Carson, Pirie, Scott & Co. No. 130,275; Apr. 20; v. 273; p. 619.
Glass jars. American Pure Food Process Co. No. 130,257; Apr. 20; v. 273; p. 619.
Gloves, Kid. Henry Kayser & Fils. No. 130,325; Apr. 20; v. 273; p. 621.
Handkerchiefs. Alco Textile Products Co. No. 130,252; Apr. 20; v. 273; p. 619.
Handkerchiefs. Jordan Marsh Company. No. 130,324; Apr. 20; v. 273; p. 621.
Hats. Chas. Tobias Bro. & Company. No. 130,427; Apr. 20; v. 273; p. 624.
Hats and caps, Cloth. Chas. Tobias Bro. & Company. No. 130,426; Apr. 20; v. 273; p. 624.
Hats and caps, Felt. John B. Stetson Company. No. 130,418; Apr. 20; v. 273; p. 624.
Hats, Women's. Ogus Rabinovich & Ogus Company. No. 130,380; Apr. 20; v. 273; p. 622.
Headlights and turbo-generators, Electric. Schroeder Headlight & Generator Co. Nos. 130,406–7; Apr. 20; v. 273; p. 623.
Hose. Slatedale Knitting Mills. Nos. 130,409–10; Apr. 20; v. 273; p. 623.
Hose-supporter. Ely & Walker Dry Goods Co. No. 130,295; Apr. 20; v. 273; p. 620.
Hose-supporters. Warner Bros. No. 130,438; Apr. 20; v. 273; p. 624.
Hosiery. Goodwear Hosiery Co. No. 130,308; Apr. 20; v. 273; p. 620.
Hosiery. T. E. Brown. No. 130,269; Apr. 20; v. 273; p. 619.
Hosiery, Vanity Fair Silk Mills. No. 130,430; Apr. 20; v. 273; p. 624.
Hosiery, Children's. John M. Given, Inc. No. 130,307; Apr. 20; v. 273; p. 620.
Hosiery for boys and girls. Mandel & Cohen. No. 130,355; Apr. 20; v. 273; p. 622.
Jewelry. The E. A. Bliss Company. No. 130,264; Apr. 20; v. 273; p. 619.
Knitted capes and mufflers. The Lion Knitting Mills Co. No. 130,346; Apr. 20; v. 273; p. 621.
Knives and meat-carving sets, Pocket-. New Jersey Cutlery Co. Inc. No. 130,376; Apr. 20; v. 273; p. 622.
Leather, Finished. Chevaux Kid Leather Co. No. 130,278; Apr. 20; v. 273; p. 619.
Leather, Upper-. Standard Kid Manufacturing Company. No. 130,414; Apr. 20; v. 273; p. 624.
Leggings, Leather and fabric. F. J. Stewart. No. 130,419; Apr. 20; v. 273; p. 624.
Lenses, Auto-. Unique Auto Specialties Co. No. 130,429; Apr. 20; v. 273; p. 624.
Lenses, Optical. F. B. Alexander. No. 130,254; Apr. 20; v. 273; p. 619.
Locomotives and tractors, Electric. Koppel Industrial Car & Equipment Company. No. 130,335; Apr. 20; v. 273; p. 621.
Macaroni, spaghetti, vermicelli. California Macaroni Company. No. 130,273; Apr. 20; v. 273; p. 619.
Machine-tools for scaling and cleaning boiler-plates, &c. F. Gilman. No. 130,306; Apr. 20; v. 273; p. 620.
Malt extract for food purposes. C. L. Beardsley. No. 130,261; Apr. 20; v. 273; p. 619.
Milk, Condensed. The Borden Company. No. 130,265; Apr. 20; v. 273; p. 619.
Milk, Condensed skimmed. J. Menist Company. No. 130,363; Apr. 20; v. 273; p. 622.
Neckties. G. L. Hendrix. No. 130,313; Apr. 20; v. 273; p. 620.
Negligées and work-shirts, Dress-. Brighton Shirt Co. No. 130,267; Apr. 20; v. 273; p. 619.
Night-wear. Cooper, Coate & Casey Dry Goods Co. No. 130,287; Apr. 20; v. 273; p. 620.
Oil, Olive-. J. Bau. No. 130,260; Apr. 20; v. 273; p. 619.
Oil, Olive-. W. L. Geer. No. 130,301; Apr. 20; v. 273; p. 620.
Oils, Edible. Aspegren & Company. No. 130,258; Apr. 20; v. 273; p. 619.
Overalls. Standard Tent & Awning Co. No. 130,415; Apr. 20; v. 273; p. 624.
Overalls, Men's. J. Kerschner. No. 130,328; Apr. 20; v. 273; p. 621.
Overalls, Men's. J. Kirschner. No. 130,329; Apr. 20; v. 273; p. 621.
Oysters, Fresh, dried, and canned. Narragansett Bay Oyster Co. Nos. 130,365–6; Apr. 20; v. 273; p. 622.
Paper, bond and linen writing-paper, and envelops. Ledger-. Whiting Paper Company. No. 130,444; Apr. 20; v. 273; p. 624.
Paper, Cover-. Alexander-Holden Paper Co. No. 130,255; Apr. 20; v. 273; p. 619.
Paper, Fine writing-. Whiting Paper Company. No. 130,443; Apr. 20; v. 273; p. 624.
Paper, Writing-. Gilbert Paper Company. No. 130,305; Apr. 20; v. 273; p. 620.
Peanuts. H. C. Sullivan. No. 130,422; Apr. 20; v. 273; p. 624.
Pencils, crayons, &c., Lead-. Blaisdell Pencil Company. No. 130,263; Apr. 20; v. 273; p. 619.
Pens and parts thereof, Fountain-. The Wahl Company. No. 130,432; Apr. 20; v. 273; p. 624.
Phonographs and talking-machines. F. S. Sammel. No. 130,402; Apr. 20; v. 273; p. 623.
Picture films, Motion-. Realart Pictures Corporation. No. 130,391; Apr. 20; v. 273; p. 623.
Pins, snap-fasteners, &c. Marshall Field & Company. No. 130,358; Apr. 20; v. 273; p. 622.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 130,435; Apr. 20; v. 273; p. 624.
Plastic composition for modeling. E. Reizenstein. No. 130,393; Apr. 20; v. 273; p. 623.
Poultry, Dressed. National Poultry Co. No. 130,368; Apr. 20; v. 273; p. 622.
Preparation for making a fruit acid and spice-flavored marmalade and jam. D. L. Levinson. No. 130,341; Apr. 20; v. 273; p. 621.
Printing-presses and parts thereof. Lisenby Manufacturing Company. No. 130,347; Apr. 20; v. 273; p. 622.
Punches. H. M. Diggs. No. 130,291; Apr. 20; v. 273; p. 620.
Pumps for boats, Hand bilge-water. R. T. Windle. No. 130,447; Apr. 20; v. 273; p. 624.
Razors. Geo. W. Korn Razor Mfg. Co. No. 130,334; Apr. 20; v. 273; p. 621.
Ribbons, Silk and velvet. Wertheimer Bros. No. 130,442; Apr. 20; v. 273; p. 624.
Rice. Stuttgart Rice Mill Company. No. 130,421; Apr. 20; v. 273; p. 624.
Rice, pickles, and olives. Tolerton & Warfield Co. No. 130,424; Apr. 20; v. 273; p. 624.
Rim, Collapsible. Baer Collapsible Rim Corporation. No. 130,259; Apr. 20; v. 273; p. 619.
Roofing and shingles. Safepack Mills. Nos. 130,400–1; Apr. 20; v. 273; p. 623.
Roofing, Prepared felt. Lamborn & Co. No. 130,339; Apr. 20; v. 273; p. 621.
Roofing, Prepared. Wilberite Rooting Company. No. 130,445; Apr. 20; v. 273; p. 624.
Roofings, Prepared. A. B. Wainwright Company. No. 130,433; Apr. 20; v. 273; p. 624.
Roofing products. New England Felt Roofing Works. No.130, 375; Apr. 20; v. 273; p. 622.
Rubber stamps and stencils. A. C. Gibson Company Inc. No. 130,303; Apr. 20; v. 273; p. 620.
Sausage, Fresh. C. Hollenbach. No. 130,317; Apr. 20; v. 273; p. 621.
Screws, Anchor-sockets for. Stine Screw Holes Company. No. 130,420; Apr. 20; v. 273; p. 624.
Seed, Grain-. H. K. Cochran Company. No. 130,282; Apr. 20; v. 273; p. 620.

Seeds, Field-. N. Wertheimer & Sons. No. 130,441; Apr. 20; v. 273; p. 624.
Shade-cloth. Talbert-Whitmore Company. No. 130,423; Apr. 20; v. 273; p. 624.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 130,370; Apr. 20; v. 273; p. 622.
Sheets, pillow and bolster cases. Naumkeag Steam Cotton Co. No. 130,369; Apr. 20; v. 273; p. 622.
Shirts. Carson Pirie Scott & Co. No. 130,276; Apr. 20; v. 273; p. 619.
Shirts, Dress, negligée and work. Piedmont Shirt Co. No. 130,388; Apr. 20; v. 273; p. 623.
Shoe-soles, Rubber and fiber. Revere Rubber Company. No. 130,394; Apr. 20; v. 273; p. 623.
Shoe-tongue pads. E. A. Guinzburg. No. 130,311; Apr. 20; v. 273; p. 620.
Shoes. O. Gentile. No. 130,302; Apr. 20; v. 273; p. 620.
Shoes, Leather. Henry Kleine & Co. No. 130,330; Apr. 20; v. 273; p. 621.
Shoes, Leather, &c. Brauer Bros. Shoe Company. No. 130,266; Apr. 20; v. 273; p. 619.
Shoes, Leather and canvas. R. H. Macy & Co. No. 130,354; Apr. 20; v. 273; p. 622.
Snap dress-fasteners. Columbia Fastener Company. No. 130,285; Apr. 20; v. 273; p. 620.
Snap-fasteners. Columbia Fastener Company. No. 130,283; Apr. 20; v. 273; p. 620.
Snap-fasteners. Columbia Fastener Company. No. 130,284; Apr. 20; v. 273; p. 620.
Snap-fasteners. Fulford Mfg. Co. No. 130,298; Apr. 20; v. 273; p. 620.
Stove-linings, Steel. Detroit Stove Works. No. 130,290; Apr. 20; v. 273; p. 620.
Spark-intensifiers. A. K. Van Namee. No. 130,431; Apr. 20; v. 273; p. 624.
Suits and overcoats, Men's. Harry Hindlemann, Inc. No. 130,315; Apr. 20; v. 273; p. 621.
Sweaters. Phillips-Doscher Corporation. No. 130,387; Apr. 20; v. 273; p. 623.
Spark-plugs. Derf Manufacturing Company. No. 130,289; Apr. 20; v. 273; p. 620.
Spark-plugs. F. M. Furber. No. 130,299; Apr. 20; v. 273; p. 620.
Syrup, Cooking-. W. M. Brownell. No. 130,270; Apr. 20; v. 273; p. 619.
Syrup, Table-. Nulomoline Company. No. 130,378; Apr. 20; v. 273; p. 622.
Tackle-blocks, Wood and steel shell. Marine Equipment and Supply Co. No. 130,356; Apr. 20; v. 273; p. 622.
Tea, coffee, chocolate, cocoa. Krenning-Schlapp Grocer Company. No. 130,335; Apr. 20; v. 273; p. 621.
Telephone-receiver supports. M. V. Reiner. No. 130,393; Apr. 20; v. 273; p. 623.
Textile fabrics. Lortex Company. No. 130,351; Apr. 20; v. 273; p. 622.
Tire grip-chains. Liberty Chain Company. No. 130,345; Apr. 20; v. 273; p. 621.
Tire-patches. P. E. Lown. No. 130,352; Apr. 20; v. 273; p. 622.
Tomato paste. New Central Canning Co. No. 130,374; Apr. 20; v. 273; p. 622.
Tractors and tractor parts. J. D. Park. No. 130,384; Apr. 20; v. 273; p. 623.
Trucks, Motor. Winther Motor Truck Company. No. 130,448; Apr. 20; v. 273; p. 624.
Underwear. Robert C. King & Co. No. 130,327; Apr. 20; v. 273; p. 621.
Underwear and hosiery. Robert C. King & Co. No. 130,326; Apr. 20; v. 273; p. 621.
Uniforms; Naval. S. Zagoren. No. 130,450; Apr. 20; v. 273; p. 624.
Valve-lifting tools for internal-combustion engines. A. C. Rosenbrook. No. 130,397; Apr. 20; v. 273; p. 623.
Valves and parts thereof. O'Malley-Beare Valve Co. No. 130,381; Apr. 20; v. 273; p. 623.
Vehicle-signals, Electrically-operated traffic. J. S. Brown. No. 130,268; Apr. 20; v. 273; p. 619.
Vehicles, Motor-. Elgin Motor Car Corporation. No. 130,294; Apr. 20; v. 273; p. 620.
Veils, malines, hair-nets, chiffons. Fuld, Traube & Co. No. 130,297; Apr. 20; v. 273; p. 620.
Voile. Burton Bros. & Co. No. 130,272; Apr. 20; v. 273; p. 619.
Waists and dresses. Ochs & Frank. No. 130,379; Apr. 20; v. 273; p. 622.
Washing fluid. J. Schmitz. No. 130,405; Apr. 20; v. 273; p. 623.
Watch materials. Waltham Watch Company. No. 130,437; Apr. 20; v. 273; p. 624.
Watches. Knickerbocker Watch Co. Nos. 130,331–2; Apr. 20; v. 273; p. 621.
Watches. M. Schussler & Co. No. 130,408; Apr. 20; v. 273; p. 623.
Watches and clocks, Luminous hand for. Hinds Luminous Compound Company. No. 130,316; Apr. 20; v. 273; p. 621.
Water-heaters, Electric. Pemelco Sales Co. No. 130,385; Apr. 20; v. 273; p. 623.
Wire meat-broilers. H. J. Chamberlin, Inc. No. 130,277; Apr. 20; v. 273; p. 619.

ALPHABETICAL LIST OF LABELS.

"Baker's Pride." (For Bread.) Saniwax Paper Co. No. 21,837; Apr. 20; v. 273; p. 627.
"Barlow-Kimnet." (For Metal and Wood Display Wax Figures, Forms, and Stove-Display Equipment.) The Barlow-Kimnet Co. No. 21,806; Apr. 20; v. 273; p. 627.
"Bowman's Nu-Like-Brand Auto Finishes Eclipse Auto Top Waterproofing." (For a Dressing.) J. A. Bowman. No. 21,808; Apr. 20; v. 273; p. 627.
"Chief Joseph." (For Fresh Fruits.) Ryan Fruit Co. No. 21,835; Apr. 20; v. 273; p. 627.
"Clove Charms." (For Fruit Tablets—Namely, Charms, Clove Flavor.) Charms Company. No. 21,818; Apr. 20; v. 273; p. 627.
"Cream of Cane." (For Syrup.) J. R. Cargill. No. 21,812; Apr. 20; v. 273; p. 627.
"Fisher's W J F." (For Apples.) W. J. Fisher & Co. No. 21,822; Apr. 20; v. 273; p. 627.
"Grape Charms." (For Fruit Tablets—Namely, Charms, Grape Flavor.) Charms Company. No. 21,817; Apr. 20; v. 273; p. 627.
"Grapelade." (For a Spread for Bread, Toast, and Biscuit.) The Welch Grape Juice Company. No. 21,843; Apr. 20; v. 273; p. 627.
"Goodies." (For Candy.) Milwaukee Paper Box Company. No. 21,832; Apr. 20; v. 273; p. 627.
"Handy Candy Licorice." (For Licorice Tablets.) Beech-Nut Packing Company. No. 21,807; Apr. 20; v. 273; p. 627.
"Jack-O-Dandy." (For Candies — Namely, Suckers.) Weber-Schlitz Candy Company. No. 21,841; Apr. 20; v. 273; p. 627.
"Laske's Natural Leaf Clippings." (For Tobacco-Clippings.) J. Laske. No. 21,830; Apr. 20; v. 273; p. 627.
"Lemon Charms." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) Charms Company. No. 21,816; Apr. 20; v. 273; p. 627.
"Liksom Delicious Bread." (For Bread.) C. D. Graves. No. 21,824; Apr. 20; v. 273; p. 627.
"Lime Charms." (For Fruit Tablets—Namely, Charms, Lime Flavor.) Charms Company. No. 21,814; Apr. 20; v. 273; p. 627.
"Lou-Au-Gene Hair Grower." (For a Hair-Grower.) Mrs. M. L. Brookins. No. 21,809; Apr. 20; v. 273; p. 627.
"Lou-Au-Gene Pressing Oil." (For a Hair-Dressing.) Mrs. M. L. Brookins. No. 21,810; Apr. 20; v. 273; p. 627.
"Lou-Au-Gene Skin Bleach." (For a Cream for Cleaning the Skin.) Mrs. M. L. Brookins. No. 21,811; Apr. 20; v. 273; p. 627.
"Mid-Valley Brand Maine Style Sweet Corn." (For Sweet Corn.) Middletown Packing Co. No. 21,831; Apr. 20; v. 273; p. 627.
"Monte Carlo Brand." (For Oranges, Grape-Fruit, and Tangerines.) Lake Reedy Packing Company. No. 21,828; Apr. 20; v. 273; p. 627.
"Odorlac Foot-Ease Powder Co." (For a Foot-Powder.) S. Cettlin. No. 21,813; Apr. 20; v. 273; p. 627.
"100%." (For Oranges.) Ryan Fruit Co. No. 21,836; Apr. 20; v. 273; p. 627.
"Orange Charms." (For Fruit Tablets—Namely, Charms, Orange Flavor.) Charms Company. No. 21,820; Apr. 20; v. 273; p. 627.
"Panama Soap." (For Soap.) R. W. Baker. No. 21,805; Apr. 20; v. 273; p. 627.
"Peach Charms." (For Fruit Tablets—Namely, Charms, Peach Flavor.) Charms Company. No. 21,819; Apr. 20; v. 273; p. 627.
"Peachlade." (For Bread, Toast, and Muffins.) The Welch Grape Juice Company. No. 21,842; Apr. 20; v. 273; p. 627.
"Red Seal." (For Malt Syrup.) Western Malt Products Co. No. 21,838; Apr. 20; v. 273; p. 627.
"Roberts Turkey Brand Corned Meats." (For Cooked Corned Meats.) G. H. Roberts. No. 21,834; Apr. 20; v. 273; p. 627.
"69." (For a Medicine.) B. V. Lares. No. 21,829; Apr. 20; v. 273; p. 627.
"Smith's Hand-Made Candy." (For Candy.) E. A. Smith. No. 21,839; Apr. 20; v. 273; p. 627.
"Superyarn." (For Yarn.) Yarn Clearing House. No. 21,833; Apr. 20; v. 273; p. 627.
"Supreme." (For Oranges, Grape-Fruit, and Tangerines.) Lake Reedy Packing Company. No. 21,827; Apr. 20; v. 273; p. 627.
"The Finishing Touch." (For Unicum Hair-Nets.) T. H. Gary Co. No. 21,823; Apr. 20; v. 273; p. 627.
"Thrift." (For Paint.) The R. F. Johnston Paint Company. No. 21,825; Apr. 20; v. 273; p. 627.
"Tube-Lock." (For Patches for Rubber, &c.) Kreider Auto Needs Co. No. 21,826; Apr. 20; v. 273; p. 627.
"Walton's Searchlight Wheat Hearts." (For a Cereal Food—Namely, Wheat Hearts.) Walton Milling Company. No. 21,840; Apr. 20; v. 273; p. 627.
"Wild Cherry Charms." (For Fruit Tablets—Namely, Charms, Wild-Cherry Flavor.) Charms Company. No. 21,815; Apr. 20; v. 273; p. 627.
"Yakival." (For Apples.) Cloud-Thomas Co. No. 21,821; Apr. 20; v. 273; p. 627.

ALPHABETICAL LIST OF PRINTS.

"A Matter of Good Taste." (For Chocolates.) Johnson Biscuit Company. No. 5,248; Apr. 20; v. 273; p. 628.
"Angelus Marshmallows." (For Marshmallows.) Rueckheim Bros. & Eckstein. No. 5,249; Apr. 20; v. 273; p. 628.
"Oak." (For Oak Flooring.) Oak Flooring Manufacturing Association. No. 5,253; Apr. 20; v. 273; p. 628.
"Palzo The Great American Cleaner." (For a Cleaner.) Runyan Chemical Products Co. No. 5,250; Apr. 20; v. 273; p. 628.
"System Cleaners." (For Laxative Tablets.) Septole Hygiene Co. No. 5,252; Apr. 20; v. 273; p. 628.
"Taking Care of Ball Bearings of Our A-B-C Grinding Line." (For Ball Bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) William Patent Crusher & Pulverizer Co. No. 5,251; Apr. 20; v. 273; p. 628.
"The Haynes Sedan." (For Automobiles.) The Haynes Automobile Company. No. 5,247; Apr. 20; v. 273; p. 628.
"The New Series Haynes Possesses Four Vital Factors." (For Automobiles.) Haynes Automobile Company. No. 5,246; Apr. 20; v. 273; p. 628.
"Virginia Fairy or Lucky Stone Co." (For Virginia Fairy or Lucky Stones.) E. E. Haley. No. 5,245; Apr. 20; v. 273; p. 628.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Air conditioning apparatus, air driers and drying materials. W. L. Fleisher & Co. No. 123,732; Apr. 20; v. 273; p. 595.
Almond paste, citron, lemon-peel, glacé fruits, &c. Chapman & Smith Company. No. 125,531; Apr. 20; v. 273; p. 601.
Auction-sale outfits. The Flex-Tic Supply Company. No. 125,836; Apr. 20; v. 273; p. 602.
Auto-body polish. A. Despol. No. 120,602; Apr. 20; v. 273; p. 593.
Bead-clasps, bracelets, brooches, cuff-links, &c. The Traub Manufacturing Company. No. 128,806; Apr. 20; v. 273; p. 615.
Baking-powder. Chapman & Smith Company. No. 125,530; Apr. 20; v. 273; p. 601.
Balls, golf-. Harry C. Lee & Company. No. 125,057; Apr. 20; v. 273; p. 599.
Bathtubs, shower-baths, lavatory-basins, &c. The Monument Pottery Co. No. 112,322; Apr. 20; v. 273; p. 588.
Battery-cell testers, testing instruments, Electric-. Service Station Supply Co. No. 125,631; Apr. 20; v. 273; p. 602.
Beds and cribs, Wheeled children's. Steinfeld Bros. No. 99,947; Apr. 20; v. 273; p. 587.
Belting, Copper thread woven in. The Rossendale-Reddaway Belting and Hose Co. No. 129,152; Apr. 20; v. 273; p. 616.
Beverage, Non-alcoholic fruit. D. N. Goldberg. No. 127,366; Apr. 20; v. 273; p. 608.
Beverages and flavors for the same, Non-alcoholic non-cereal maltless. H. H. Summer. No. 127,405; Apr. 20; v. 273; p. 609.
Brake-linings. Thermoid Rubber Company. No. 126,154; Apr. 20; v. 273; p. 603.
Bread. Ruch-Drompp Grocery Co. No. 129,248; Apr. 20; v. 273; p. 616.
Bread. Ward Baking Company. No. 127,271; Apr. 20; v. 273; p. 608.
Bread. Ward Baking Company. No. 129,030; Apr. 20; v. 273; p. 615.
Brushes, brooms, floor-sweepers, Dustpan and household. Auburn Brush Company. No. 124,778; Apr. 20; v. 273; p. 598.
Butter. B. Stilling-Andersen, Inc. No. 129,288; Apr. 20; v. 273; p. 617.
Cabinets for paper towels or toilet-papers, Dispensing-. Albany Perforated Wrapping Paper Company. No. 116,357; Apr. 20; v. 273; p. 590.
Cables, Electric portable. Tubular Woven Fabric Company. No. 116,015; Apr. 20; v. 273; p. 589.
Candles. Hawley & Hoops. No. 128,302; Apr. 20; v. 273; p. 612.
Candies. Menamen Trading Company. No. 127,567; Apr. 20; v. 273; p. 609.
Candy. C. A. Crane. Nos. 128,665–6; Apr. 20; v. 273; p. 614.
Candy. Package Confectionery Company. No. 128,694; Apr. 20; v. 273; p. 614.
Candy. Palmer Candy Co. No. 127,829; Apr. 20; v. 273; p. 611.
Candy. The Robert F. Mackenzie Co. Nos. 127,377–8; Apr. 20; v. 273; p. 609.
Candy. Schuler Chocolate Factory. No. 128,526; Apr. 20; v. 273; p. 613.
Candy and confections. The Touraine Company. No. 127,669; Apr. 20; v. 273; p. 610.
Canned corn. Farmers Union State Exchange. No. 128,772; Apr. 20; v. 273; p. 614.
Canned fish. Lower California Packing Plants. No. 128,786; Apr. 20; v. 273; p. 615.
Canned fruits. Herbert Packing Co. No. 127,650; Apr. 20; v. 273; p. 610.
Canned fruits, vegetables, salmon, &c. Basket Stores Company. Nos. 128,996–7; Apr. 20; v. 273; p. 615.
Canned hominy, pork and beans, red beans, &c. Purepakt Products Company. No. 123,398; Apr. 20; v. 273; p. 595.
Canned salmon. J. Klaeboe. No. 127,291; Apr. 20; v. 273; p. 608.
Canned vegetables. C. O. Dawson. Nos. 128,759–62; Apr. 20; v. 273; p. 614.
Canned vegetables and fruits. J. Menist Company. No. 124,002; Apr. 20; v. 273; p. 596.
Cards, class-record books, &c., School-report. The Educational Supply Company. No. 124,929; Apr. 20; v. 273; p. 598.
Cars and dump-wagons, Dump, spreader, and flat. Western Wheeled Scraper Company. No. 129,112; Apr. 20; v. 273; p. 616.
Chains for motor trucks, &c., Power-transmission or drive. Baldwin Chain and Manufacturing Company. No. 124,066; Apr. 20; v. 273; p. 596.
Chalk products in table form, Pharmaceutical. J. A. Willing. No. 121,553; Apr. 20; v. 273; p. 593.
Cheese. J. L. Kraft & Bros. Co. No. 108,253; Apr. 20; v. 273; p. 587.
Chemical preparation for the removal of metal from oxid formed when metal is heated to a white heat. E. A. Abbott. No. 109,960; Apr. 20; v. 273; p. 587.
Chocolates. Peter Cailler Kohler Swiss Chocolates Co. No. 124,912; Apr. 20; v. 273; p. 598.
Cigarettes. Standard Export Cigarette Corporation. No. 123,942; Apr. 20; v. 273; p. 596.
Cigars. J. J. Mauser. No. 127,863; Apr. 20; v. 273; p. 611.
Cigars. Perfecto Manufacturers. No. 128,316; Apr. 20; v. 273; p. 612.
Cigars. Perfecto Manufacturers. No. 128,318; Apr. 20; v. 273; p. 612.
Clotheslines. C. C. Davis. No. 127,901; Apr. 20; v. 273; p. 611.
Compasses, Drawing-. G. J. Hill. No. 127,055; Apr. 20; v. 273; p. 606.
Confectionery. California Chocolate Shop. Nos. 127,630–1; Apr. 20; v. 273; p. 610.
Confectionery. Sioux Candy Company. No. 125,917; Apr. 20; v. 273; p. 603.
Cotton piece goods. Boott Mills. No. 115,798; Apr. 20; v. 273; p. 589.
Cream, Complexion-. T. Noonan & Sons Company. No. 117,242; Apr. 20; v. 273; p. 591.
Cream, Skin-. Lamar, Taylor & Riley Drug Co. No. 125,287; Apr. 20; v. 273; p. 600.
Cultivators. C. S. McCarthy, Jr. No. 126,418; Apr. 20; v. 273; p. 603.
Dairy products. Associated Dairymen of Calif. No. 121,378; Apr. 20; v. 273; p. 593.
Decarbonizer for cylinders of automobile-engines. Bert Platt & Co. No. 120,430; Apr. 20; v. 273; p. 592.
Dental pliers, &c. The Cleveland Dental Manufacturing Company. No. 126,306; Apr. 20; v. 273; p. 603.
Dentifrice. The Penslar Company. No. 125,240. Apr. 20; v. 273; p. 600.
Doughnuts. The Kelly-Robinson Corporation. No. 127,721; Apr. 20; v. 273; p. 611.
Drink-mixing machines. Kwikmix Manufacturing Co. No. 126,282; Apr. 20; v. 273; p. 603.
Eggs for hatching and poultry. E. N. Lemon. No. 129,264; Apr. 20; v. 273; p. 616.
Electrolyte in electrical accumulator, Chemical preparation used as an. C. H. Worsnop. No. 117,545; Apr. 20; v. 273; p. 591.
Fabric made with a cotton warp and a filling of wool or mohair, &c. Lesher Whitman & Co. No. 124,721; Apr. 20; v. 273; p. 597.
Fabrics, Narrow woven. C. Prosnitz. No. 126,907; Apr. 20; v. 273; p. 606.
Feed, Dairy. Western Feed Manufacturers. No. 127,200; Apr. 20; v. 273; p. 608.
Feed for calves and pigs, Mixed grain. Hales & Edwards Company. No. 116,567; Apr. 20; v. 273; p. 590.
Feed, Hog and cattle. Schreiber Milling & Grain Co. No. 124,738; Apr. 20; v. 273; p. 597.
Feed, Horse. Western Feed Manufacturers. No. 127,193; Apr. 20; v. 273; p. 607.
Feed, Horse. Western Feed Manufacturers. No. 127,197; Apr. 20; v. 273; p. 607.
Feed, Rabbit. Western Feed Manufacturers. No. 127,198; Apr. 20; v. 273; p. 607.
Feed, Scratch. Western Feed Manufacturers. No. 127,191; Apr. 20; v. 273; p. 607.
Feed, Scratch. Western Feed Manufacturers. No. 127,199; Apr. 20; v. 273; p. 607.
Feed, Stock. Ralston Purina Company. No. 128,616; Apr. 20; v. 273; p. 613.
Feed, Stock. Western Feed Manufacturers. No. 127,202; Apr. 20; v. 273; p. 608.
Flavoring extracts for foods. M. U. Humphreys. No. 128,389; Apr. 20; v. 273; p. 612.
Flour, Highest-patent. Morrison Bros. Mills. No. 126,532; Apr. 20; v. 273; p. 604.
Flour, Rye-. Stern Milling Company. No. 121,024; Apr. 20; v. 273; p. 593.

Flour, Self-rising wheat. Prange Milling Company. No. 129,570; Apr. 20; v. 273; p. 617.
Flour, Wheat-. Amendt Milling Company. No. 128,643; Apr. 20; v. 273; p. 614.
Flour, Wheat-. G. H. Dulle Milling Co. No. 128,547; Apr. 20; v. 273; p. 613.
Flour, Wheat-. The Longmont Farmers Milling & Elevator Co. No. 101,150; Apr. 20; v. 273; p. 587.
Flour, Wheat-. J. Moskowitz. No. 129,148; Apr. 20; v. 273; p. 616.
Flour, Wheat-. Wilmarth and Rice. No. 125,641; Apr. 20; v. 273; p. 602.
Food, Chilli. U. Urbany. No. 123,827; Apr. 20; v. 273; p. 595.
Food for poultry, &c., Scratch. S. A. Rogers Co. No. 117,196; Apr. 20; v. 273; p. 591.
Food product in solution for infants, &c. Fairchild Bros. & Foster. No. 127,641; Apr. 20; v. 273; p. 610.
Foods, Infants'. United Drug Company. No. 127,625; Apr. 20; v. 273; p. 610.
Fruits, Citrus. Placentia Mutual Orange Association. No. 127,395; Apr. 20; v. 273; p. 609.
Fur, Imitation. A. B. Schneider. No. 127,016; Apr. 20; v. 273; p. 606.
Furs, Raw. Reliance Fur Dyeing Inc. No. 116,427; Apr. 20; v. 273; p. 590.
Games. The Weinthrop Company. No. 109,186; Apr. 20; v. 273; p. 587.
Glassware. Central Glass Works. No. 126,715; Apr. 20; v. 273; p. 605.
Glue. The Napco Corporation. No. 129,642; Apr. 20; v. 273; p. 617.
Gold and silver polish. A. O. Meier. No. 127,928; Apr. 20; v. 273; p. 611.
Hair-cream. E. I. Rovner. No. 125,241; Apr. 20; v. 273; p. 600.
Hair-grower. Mrs. D. Burch. No. 125,150; Apr. 20; v. 273; p. 599.
Hair-grower, &c. J. J. Zofsak. No. 117,148; Apr. 20; v. 273; p. 590.
Hair-tonic and toilet deodorant. J. R. Watkins. No. 125,212; Apr. 20; v. 273; p. 600.
Hames. The National Hame & Chain Co. No. 83,780; Apr. 20; v. 273; p. 587.
Handkerchiefs. Hyman Bauman & Co. No. 125,170; Apr. 20; v. 273; p. 599.
Handles, knobs, pulls, Enameled. American Enamel Company. No. 122,322; Apr. 20; v. 273; p. 594.
Herring, mackerel, salmon, &c. I. Burger, Inc. Nos. 128,592–3; Apr. 20; v. 273; p. 613.
Hides and leather. Kullman, Salz & Co. No. 116,576; Apr. 20; v. 273; p. 590.
Hides, skins, and raw furs. L. A. Scandrett. No. 114,486; Apr. 20; v. 273; p. 588.
Ice-cream, butter, candy, &c. Cairo Food Products Company. No. 127,892; Apr. 20; v. 273; p. 611.
Inks, Photo-engravers'. J. T. Barlow. No. 129,119; Apr. 20; v. 273; p. 616.
Insulating material. John C. Dolph Company. No. 124,098; Apr. 20; v. 273; p. 597.
Insulated-wire conductors. Tubular Woven Fabric Company. No. 117,024; Apr. 20; v. 273; p. 590.
Knit underwear and sweaters, Men's. Wyman Partridge & Co. No. 128,130; Apr. 20; v. 273; p. 612.
Knives, Pocket, table, butcher, and trade. John Russell Cutlery Company. Nos. 129,093–4; Apr. 20; v. 273; p. 616.
Lard, Kettle-rendered. Corn Belt Packing Company. No. 128,342; Apr. 20; v. 273; p. 612.
Leather. A. J. Bates & Company. No. 128,137; Apr. 20; v. 273; p. 612.
Leather. Merchant Loveys Leather Co. No. 125,004; Apr. 20; v. 273; p. 598.
Leather and fabric dressing. J. W. Colley. No. 126,988; Apr. 20; v. 273; p. 606.
Lenses, lens-blanks, and spectacle-frames, Spectacle-. J. H. Hammon. No. 128,502; Apr. 20; v. 273; p. 613.
Lenses, Ophthalmic, &c. American Optical Company. Nos. 124,562–3; Apr. 20; v. 273; p. 597.
Liniment. Henry Thayer & Co. No. 125,198; Apr. 20; v. 273; p. 599.
Liniments for wrenches, sprains, bruises, &c., cow and horse physic for dysentery, &c. J. F. McKenna. No. 121,870; Apr. 20; v. 273; p. 594.
Linoleum and composition floor-coverings. The Beaver Company. No. 128,485; Apr. 20; v. 273; p. 613.
Lubricating-greases. D-A Lubricant Company. No. 128,509; Apr. 20; v. 273; p. 613.
Machine tools and apparatus and tools for metal-working. Maschinenfabrik Schweiter A-G. No. 113,492; Apr. 20; v. 273; p. 588.
Mats and runners, Leather table. Excello Mat Company. No. 125,654; Apr. 20; v. 273; p. 602.
Mats, Floor-. E. Jackson. No. 126,253; Apr. 20; v. 273; p. 603.
Meal, Calf-. International Sugar Feed Co. No. 126,638; Apr. 20; v. 273; p. 605.
Meal, Pig-. International Sugar Feed Co. No. 126,637; Apr. 20; v. 273; p. 605.
Medicinal preparation for catarrh, asthma, and bronchial troubles. J. Gallagher. No. 124,931; Apr. 20; v. 273; p. 598.
Medicinal preparation for the treatment of affections of the throat and bronchial tubes. McKesson & Robbins. No. 125,291; Apr. 20; v. 273; p. 600.
Medicinal preparations for the treatment of rheumatism, gout, migraine, &c. The Calco Chemical Company. No. 126,452; Apr. 20; v. 273; p. 604.
Medicine for constipation. E. Jacobs. No. 125,425; Apr. 20; v. 273; p. 601.
Medicine for gout, rheumatism, lumbago, neuralgia, &c. A. Lev. No. 125,391; Apr. 20; v. 273; p. 601.
Metal in the form of sheets, castings, and forgings, Non-ferrous. Baush Machine Tool Company. No. 125,874; Apr. 20; v. 273; p. 602.
Metal-polish. Bubblitz & Hammond. No. 127,576; Apr. 20; v. 273; p. 610.
Mills, Grist-. Diamond Grinder Company. No. 128,489; Apr. 20; v. 273; p. 613.
Mince-meat. Granger & Company. No. 128,679; Apr. 20; v. 273; p. 614.
Needles, pins, button-hooks, &c., Hand-. Morris & Yeomans. No. 122,715; Apr. 20; v. 273; p. 594.
Nose-guards for animals. R. Brownson & Company. No. 120,030; Apr. 20; v. 273; p. 592.
Oats, Rolled. The Corno Mills Company. No. 124,641; Apr. 20; v. 273; p. 597.
Oil-cloth. Ely & Walker Dry Goods Company. No. 128,629; Apr. 20; v. 273; p. 614.
Oil, Olive-. Musher & Company. No. 127,563; Apr. 20; v. 273; p. 609.
Oils and greases for engines, machinery, &c., Lubricating. Delaware Electric & Supply Co. No. 124,084; Apr. 20; v. 273; p. 596.
Oils and greases, Lubricating. J. P. Breen. No. 127,537; Apr. 20; v. 273; p. 609.
Oils and greases, Lubricating. T. A. Burch. No. 124,969; Apr. 20; v. 273; p. 598.
Ointment for external use in influenza, pneumonia, pleurisy, &c. W. H. Young. No. 125,556; Apr. 20; v. 273; p. 602.
Ointment for use in the treatment of la grippe, colds, &c. S. Schlup. No. 124,014; Apr. 20; v. 273; p. 596.
Oleomargarin. American Nut Butter Company. No. 128,587; Apr. 20; v. 273; p. 613.
Oleomargarin. Nut Grove Butter Company. No. 129,470; Apr. 20; v. 273; p. 617.
Oranges, Fresh. A. L. Woodill. No. 115,302; Apr. 20; v. 273; p. 589.
Overalls. The Free Land Overall Manufacturing Co. No. 128,150; Apr. 20; v. 273; p. 612.
Overalls, &c. H. D. Overall Co. No. 126,390; Apr. 20; v. 273; p. 603.
Overcoats, Men's and boys'. Wyman Partridge & Co. No. 128,128; Apr. 20; v. 273; p. 612.
Paint for iron and steel. Goheen Corporation, The. No. 129,131; Apr. 20; v. 273; p. 616.
Paints, pigments, colors ground in japan, oil stains, &c. Kent & Purdy Paint Company. No. 120,461; Apr. 20; v. 273; p. 592.
Pajamas. Berkshire Shirt Co. No. 124,038; Apr. 20; v. 273; p. 596.
Paper bags. J. Single. Nos. 120,225–7; Apr. 20; v. 273; p. 592.
Paper, Cover-. The Whitaker Paper Company. No. 123,090; Apr. 20; v. 273; p. 595.
Paper, Filter-. H. Reeve Angel & Co. No. 126,839; Apr. 20; v. 273; p. 605.
Parasols and umbrellas. J. A. Migel, Inc. No. 128,455; Apr. 20; v. 273; p. 612.
Pastils, Throat-. McKesson & Robbins. No. 125,292; Apr. 20; v. 273; p. 600.
Peanut-butter and cereal coffee. Johnson Educator Food Co. No. 114,375; Apr. 20; v. 273; p. 588.
Pearls. Goldsmith Brothers Smelting and Refining Company. No. 129,380; Apr. 20; v. 273; p. 617.
Pens, Fountain ruling-. Designers Instrument Company. No. 126,115; Apr. 20; v. 273; p. 603.
Perfumes, face-powder, talcum powder, rouge, &c. I. J. Tetlow. No. 122,795; Apr. 20; v. 273; p. 594.
Periodical or magazine, Weekly. The Butterick Publishing Company. No. 122,880; Apr. 20; v. 273; p. 595.
Photographic retouching-screens. I. Boysen. No. 125,045; Apr. 20; v. 273; p. 599.
Picture films, Motion-. International Film Service Co. No. 127,692; Apr. 20; v. 273; p. 611.
Picture films, Motion-. Selznick Pictures Corporation. No. 122,086; Apr. 20; v. 273; p. 594.
Picture films, Moving-. Cosmopolitan Film Company. No. 126,614; Apr. 20; v. 273; p. 604.
Picture films showing animated drawings, Moving-. The Bray Pictures Corporation. No. 125,827; Apr. 20; v. 273; p. 602.
Picture-viewing machines, Coin-operated moving-. J. F. Meyer. No. 127,222; Apr. 20; v. 273; p. 608.
Pie-fillings, fruit-flavored icing, &c. Leota Food Products Co. No. 127,375; Apr. 20; v. 273; p. 608.
Pills, Liver-. I. H. Taylor. No. 125,038; Apr. 20; v. 273; p. 599.
Placket-fasteners, glove-fasteners, hand sewing-needles, &c. Waldes & Co. Nos. 121,066–7; Apr. 20; v. 273; p. 593.
Plows. E. E. Sowell. No. 117,306; Apr. 20; v. 273; p. 591.
Polish for pianos, furniture, and other painted or varnished surfaces, Liquid. J. A. Selby. No. 124,736; Apr. 20; v. 273; p. 597.

(REGISTRATION APPLIED FOR.)

Preparation for the treatment of rheumatism, lumbago, lame back, &c. Radway & Co. No. 125,303; Apr. 20; v. 273; p. 601.

Preparation used as an internal lubricant. J. Kalish Inc. No. 125,386; Apr. 20; v. 273; p. 601.

Pumps, &c. Dow Pump and Diesel Engine Company. No. 128,920; Apr. 20; v. 273; p. 615.

Pumps, Liquid-measuring. Guarantee Liquid Measure Co. No. 124,985; Apr. 20; v. 273; p. 598.

Rakes, tedders, hay-loaders, &c. B. F. Avery & Sons. No. 127,347; Apr. 20; v. 273; p. 608.

Razor-blades. Simmons Hardware Company. No. 123,528; Apr. 20; v. 273; p. 595.

Razors. Boker Cutlery & Hardware Company. No. 127,850; Apr. 20; v. 273; p. 611.

Remedy compound, vegetable and mineral, Blood-. R. A. Courtney. No. 125,221; Apr. 20; v. 273; p. 600.

Respirators, respirator masks and hoods, &c. American La France Fire Engine Co. No. 114,987; Apr. 20; v. 273; p. 589.

Rings, pins, and bracelets, Finger-. Uncas Manufacturing Company. No. 125,039; Apr. 20; v. 273; p. 599.

Rivet-sets, chisel-blanks, reamers, and drills. W. E. Nagle & Son. No. 125,338; Apr. 20; v. 273; p. 601.

Roofing, heat and cold insulating materials, &c. The Philip Carey Manufacturing Company. No. 113,749; Apr. 20; v. 273; p. 588.

Rubber and duck beltings and hose, machinery packings, &c. Imperial Belting Company. No. 119,707; Apr. 20; v. 273; p. 592.

Rubber elevator-belts reinforced with fabric. The B. F. Goodrich Company. No. 126,572; Apr. 20; v. 273; p. 604.

Salad-dressing. R. C. Williams & Company. No. 127,410; Apr. 20; v. 273; p. 609.

Salad, mayonnaise and mustard dressings. McCormick & Co. No. 127,656; Apr. 20; v. 273; p. 610.

Salt, Table-. Walker-Matteson Company. No. 126,666; Apr. 20; v. 273; p. 605.

Sauces for seasoning foods. S. Nagano. No. 126,053; Apr. 20; v. 273; p. 603.

Scales, measuring-pumps, Computing. W. C. Pritchard. No. 123,497; Apr. 20; v. 273; p. 595.

Scalp, face, and skin treatment liquids, pile-remedy ointment. J. E. Loudenslager. No. 125,428; Apr. 20; v. 273; p. 601.

Seed, Tobacco-. W. S. Judy. No. 123,198; Apr. 20; v. 273; p. 595.

Seeds, Agricultural. Randell-McLoughlin Co. No. 121,639; Apr. 20; v. 273; p. 594.

Seeds, Garden, field, and flower. John A. Salzer Seed Co. No. 126,659; Apr. 20; v. 273; p. 605.

Shirts, pajamas, nightgowns, kimonos, &c. L. F. Rubens. No. 124,076; Apr. 20; v. 273; p. 596.

Shoe-lasts. The Crawford McGregor & Canby Company. No. 121,566; Apr. 20; v. 273; p. 593.

Shoe-polish. Ivory Polish Company. No. 126,963; Apr. 20; v. 273; p. 606.

Shortening for cooking purposes, &c. Interstate Cotton Oil Refining Company. No. 126,962; Apr. 20; v. 273; p. 606.

Skates, Ice-. The Samuel Winslow Skate Mfg. Co. No. 123,009; Apr. 20; v. 273; p. 595.

Soap in bars, Mechanics'. Cla-Loid Mfg. Co. No. 126,848; Apr. 20; v. 273; p. 606.

Soaps. A. Bell. No. 127,886; Apr. 20; v. 273; p. 611.

Soaps. C. G. Moller. No. 127,384; Apr. 20; v. 273; p. 609.

Soaps. Red "C" Oil Manufacturing Co. No. 127,328; Apr. 20; v. 273; p. 608.

Spark-plugs. Ford Mica Company. No. 122,634; Apr. 20; v. 273; p. 594.

Staybolt-taps. W. L. Brubaker & Bros. No. 127,114; Apr. 20; v. 273; p. 607.

Steel for tools, iron and steel in the form of pigs, ingots, billets, &c. Hall & Pickles. No. 123,893; Apr. 20; v. 273; p. 596.

Suits and overcoats, Men's outer. C. D. Levin. No. 126,936; Apr. 20; v. 273; p. 606.

Suits, coats, waists, dresses, and skirts, Ladies', misses', and children's. J. Eckstein. No. 123,973; Apr. 20; v. 273; p. 596.

Sweater-coats. Watts, Ritter & Company. No. 128,125; Apr. 20; v. 273; p. 612.

Sweaters, hosiery, underwear, &c. H. Ostrowsky Co. No. 125,122; Apr. 20; v. 273; p. 599.

Syrup for making non-alcoholic non-cereal beverages. C. A. Fowler. No. 127,640; Apr. 20; v. 273; p. 610.

Syrup, Malt. Northwestern Brewers Supply Co. No. 126,054; Apr. 20; v. 273; p. 603.

Syrup, Maple table-. Vermont Maple Syrup Company. No. 119,458; Apr. 20; v. 273; p. 592.

Syrup used in the preparation of beverages. The "Spearmintx" Co. No. 126,074; Apr. 20; v. 273; p. 603.

Tablet, Medicinal. G. W. Carnrick Co. No. 126,450; Apr. 20; v. 273; p. 273; p. 604.

Tablets. Preston Chemical Company. No. 126,423; Apr. 20; v. 273; p. 604.

Tea, coffee, canned vegetables, &c. United Wholesale Grocery Co. No. 128,807; Apr. 20; v. 273; p. 615.

Tires, Patch employed in mending automobile-. Vulca Laboratories. No. 117,787; Apr. 20; v. 273; p. 591.

Tires, tubes, and casing-patch. W. L. Tedford. No. 125,261; Apr. 20; v. 273; p. 600.

Tobacco and cigarettes, Smoking and chewing. Frishmuth Bro. & Company. No. 116,157; Apr. 20; v. 273; p. 590.

Toilet preparations. Talcum Puff Company. No. 126,661; Apr. 20; v. 273; p. 605.

Toilet preparations for treating the skin. Geo. Zubrod & Co. No. 125,356; Apr. 20; v. 273; p. 601.

Tonic for nervousness, indigestion, and general debility. Meritone Medicine Co. No. 116,890; Apr. 20; v. 273; p. 590.

Tonic, Reconstruction. Bosak Manufacturing Co. Nos. 130,356–8; Apr. 20; v. 273; p. 617.

Traps, tank-filler flanges, hot-water valves, &c., Sediment-. Michigan Lubricator Company. No. 119,275; Apr. 20; v. 273; p. 592.

Trucks, Motor-. All-American Truck Company. No. 116,018; Apr. 20; v. 273; p. 590.

Trucks, Motor-. Indiana Truck Corporation. No. 113,160; Apr. 20; v. 273; p. 588.

Trucks, wagons, carts, drays, and vehicles, Automobile-. The O. Armleder Co. No. 124,840; Apr. 20; v. 273; p. 598.

Twine. Zellerbach Paper Company. No. 126,433; Apr. 20; v. 273; p. 604.

Twine and cordage. American Core-Twine Company. No. 124,509; Apr. 20; v. 273; p. 597.

Valves, Flush-tank outlet-. The Korket Company. No. 117,981; Apr. 20; v. 273; p. 591.

Vegetables, Fresh. E. M. Sheehan. No. 127,402; Apr. 20; v. 273; p. 609.

Venereal treatment. The B & R Laboratories & Mfg. Co. No. 124,880; Apr. 20; v. 273; p. 598.

Wall-board and building-paper. Muro Wall Board Company. No. 125,621; Apr. 20; v. 273; p. 602.

Washing compound. A. E. Cleveland. No. 127,082; Apr. 20; v. 273; p. 606.

Water-motors. Victor Water Motor Corporation. No. 115,031; Apr. 20; v. 273; p. 589.

Webs, Elastic. Faire Bros. & Co. Nos. 117,655–6; Apr. 20; v. 273; p. 591.

Wire and like flexible members for power transmission, &c., Spiral. Bowden Wire Limited. No. 107,923; Apr. 20; v. 273; p. 587.

Wire and metallic strips of an alloy containing manganese. Driver-Harris Company. No. 115,567; Apr. 20; v. 273; p. 589.

Wire-cloth and fencing of iron wire. Clinton Wire Cloth Company. No. 115,972; Apr. 20; v. 273; p. 589.

CLASSIFICATION OF PATENTS

APRIL 20, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 56: 1,337,212
2— 15: 1,337,698
41: 1,337,917
73: 1,337,224
104: 1,337,879
1,337,957
106: 1,337,397
108: 1,337,506
126: 1,337,901
144: 1,337,883
149: 1,337,420
4— 18: 1,337,643
1,337,730
19: 1,337,829
5— 17: 1,337,497
29: 1,337,320
37: 1,337,321
47: 1,337,580
55: 1,337,340
1,337,626
1,337,627
1,337,799
69: 1,337,508
8— 2: 1,337,306
6: 1,337,673
18: 1,337,877
9— 2: 1,337,781
9: 1,337,383
10— 61: 1,337,430
12— 22: 1,337,290
126: 1,337,190
14— 41: 1,337,187
15— 13: 1,337,819
15: 1,337,477
17: 1,337,199
20: 1,337,503
30: 1,337,856
16— 10: 1,337,384
1,337,918
11: 1,337,817
48: 1,337,689
88: 1,337,763
103: 1,337,273
151: 1,337,344
17— 10: 1,337,375
20: 1,337,955
24: 1,337,596
18— 2: 1,337,532
1,337,536
8: 1,337,258
18: 1,337,631
35: 1,337,930
45: 1,337,707
1,337,910
53: 1,337,802
19— 2: 1,337,470
20— 2: 1,337,745
1,337,746
22: 1,337,261
56.4: 1,337,565
69: 1,337,394
21— 31: 1,337,271
69: 1,337,869
150: 1,337,787
22— 20: 1,337,268
26: 1,337,780
36: 1,337,585
79: 1,337,256
23— 1: 1,337,561
3: 1,337,975
13: 1,337,191
1,337,192
1,337,239
1,337,750
21: 1,337,665
1,337,903
24: 1,337,253
1,337,317
24— 10: 1,337,963
68: 1,337,534
69: 1,337,419
73: 1,337,846
102: 1,337,889
139: 1,337,434
153: 1,337,598
171: 1,337,965
191: 1,337,181
24— 208: 1,337,785
211: 1,337,938
231: 1,337,577
261: 1,337,607
25— 14: 1,337,871
41: 1,337,618
121: 1,337,493
129: 1,337,663
132: 1,337,298
142: 1,337,454
28— 4: 1,337,269
1,337,270
14: 1,337,727
29— 80: 1,337,940
85: 1,337,233
86.1: 1,337,670
87.1: R.14,845
89: 1,337,847
156.1: 1,337,551
159: 1,337,808
30— 3: 1,337,514
10: 1,337,769
12: 1,337,429
1,337,435
13: 1,337,263
31— 102: 1,337,211
32— 4: 1,337,622
33— 95: 1,337,823
127: 1,337,260
134: 1,337,891
185: 1,337,288
34— 34: 1,337,220
36— 17: 1,337,219
34: 1,337,639
59: 1,337,962
73: 1,337,983
37— 5: 1,337,355
9: 1,337,279
50: 1,337,426
39— 28: 1,337,897
40— 2: 1,337,586
5: 1,337,722
11: 1,337,816
65: 1,337,315
66: 1,337,401
132: 1,337,728
1,337,872
145: 1,337,947
42— 3: 1,337,444
17: 1,337,292
18: 1,337,378
45— 2: 1,337,575
28: 1,337,535
1,337,852
50: 1,337,311
51: 1,337,886
120: 1,337,545
133: 1,337,625
46— 4: 1,337,958
14: 1,337,483
21: 1,337,274
22: 1,337,479
27: 1,337,820
35: 1,337,664
37: 1,337,758
40: 1,337,354
41: 1,337,691
45: 1,337,705
59: 1,337,932
61: 1,337,570
1,337,773
47— 12: 1,337,803
48— 52: 1,337,805
202: 1,337,537
49— 9: 1,337,723
63: 1,337,633
50— 14: 1,337,248
51— 4: 1,337,617
12: 1,337,353
13: 1,337,352
52— 3: 1,337,451
53— 1: 1,337,876
1,337,981
3: 1,337,964
55— 44: 1,337,499
77: 1,337,241
1,337,425
55— 83: 1,337,448
107: 1,337,481
56— 27: 1,337,452
220: 1,337,193
232: 1,337,655
320: 1,337,563
60— 12: 1,337,323
23: 1,337,764
44: 1,337,751
46: 1,337,533
62— 118: 1,337,888
64— 10: 1,337,238
24: 1,337,201
1,337,202
1,337,203
1,337,597
36: 1,337,656
1,337,881
1,337,882
47: 1,337,742
96: 1,337,646
65— 26: 1,337,540
28: 1,337,814
57: 1,337,789
66— 4: 1,337,294
67— 50: 1,337,620
72: 1,337,795
1,337,825
68— 9: 1,337,204
10: 1,337,512
18: 1,337,552
30: 1,337,810
31: 1,337,272
70— 26: 1,337,928
46: 1,337,511
53: 1,337,242
56: 1,337,243
74: 1,337,386
90: 1,337,568
1,337,709
112: 1,337,674
126: 1,337,654
72— 7: 1,337,559
107: 1,337,767
73— 31: 1,337,969
51: 1,337,390
111: 1,337,455
74— 6: 1,337,417
7: 1,337,376
1,337,460
14: 1,337,280
1,337,908
34: 1,337,531
1,337,578
1,337,602
1,337,906
36: 1,337,395
81: 1,337,685
84: 1,337,921
99: 1,337,369
1,337,411
104: 1,337,635
106: 1,337,249
109: 1,337,651
75— 1: 1,337,209
1,337,210
1,337,276
77— 3: 1,337,393
19: 1,337,205
55: 1,337,682
78— 29: 1,337,520
30: 1,337,379
44: 1,337,474
80— 18: 1,337,640
81— 3: 1,337,600
3.1: 1,337,899
9.5: 1,337,236
91: 1,337,509
98: 1,337,678
136: 1,337,550
82— 34: 1,337,387
83— 8: 1,337,583
1,337,584
9: 1,337,641
44: 1,337,567
45: 1,337,697
83— 54: 1,337,822
73: 1,337,333
85: 1,337,548
84— 85: 1,337,937
115: 1,337,459
146: 1,337,793
85— 4: 1,337,807
86— 20: 1,337,490
87— 12: 1,337,339
17: 1,337,381
1,337,382
88— 2.2: 1,337,912
16.4: 1,337,775
17: 1,337,267
18.7: 1,337,418
20: 1,337,265
42: 1,337,818
52: 1,337,330
89— 1: 1,337,327
1,337,566
13: 1,337,971
27: 1,337,308
33: 1,337,893
40: 1,337,359
91— 14: 1,337,729
54.4: 1,337,684
59: 1,337,619
68: 1,337,380
92— 7: 1,337,704
93— 2: 1,337,845
3: 1,337,404
5: 1,337,693
61: 1,337,734
1,337,735
94— 41: 1,337,953
95— 1.1: 1,337,423
53: 1,337,603
97— 13: 1,337,407
18: 1,337,868
50: 1,337,929
66: 1,337,721
68: 1,337,870
98— 4: 1,337,731
99— 2: 1,337,974
11: 1,337,850
100— 57: 1,337,374
101— 64: 1,337,970
89: 1,337,232
232: 1,337,266
284: 1,337,186
287: 1,337,231
301: 1,337,591
348: 1,337,574
102— 29: 1,337,343
36: 1,337,525
1,337,960
103— 43: 1,337,916
61: 1,337,556
63: 1,337,982
67: 1,337,388
75: 1,337,834
80: 1,337,593
40: 1,337,359
104— 52: 1,337,347
57: 1,337,873
252: 1,337,944
1,337,945
105— 28: 1,337,610
1,337,914
51: 1,337,334
160.5: 1,337,439
341: 1,337,492
378: 1,337,348
106— 9: 1,337,264
107— 58: 1,337,500
63: 1,337,909
108— 26: 1,337,840
109— 3: 1,337,554
110— 18: 1,337,668
111— 5: 1,337,184
6: 1,337,562
112— 9: 1,337,972
24: 1,337,650
113— 59: 1,337,677
111: 1,337,466
114— 20: 1,337,809
50: 1,337,601
114— 68: 1,337,747
150: 1,337,475
240: 1,337,502
115— 12: 1,337,442
26: 1,337,372
116— 2: 1,337,856
31: 1,337,553
118— 55: 1,337,658
119— 22: 1,337,954
27: 1,337,926
36: 1,337,183
54: 1,337,436
120— 21: 1,337,412
115: 1,337,196
122— 68: 1,337,486
1,337,720
237: 1,337,632
291: 1,337,851
360: 1,337,560
391: 1,337,557
392: 1,337,828
416: 1,337,653
123— 15: 1,337,218
32: 1,337,771
127: 1,337,358
140: 1,337,770
149: 1,337,322
1,337,331
124— 1: 1,337,934
12: 1,337,967
126— 1: 1,337,792
17: 1,337,605
53: 1,337,413
67: 1,337,708
147: 1,337,604
175: 1,337,214
214: 1,337,774
215: 1,337,524
341: 1,337,399
368: 1,337,800
128— 29: 1,337,225
73: 1,337,312
112: 1,337,790
130— 32: 1,337,257
1,337,924
132— 22: 1,337,377
133— 10: 1,337,941
134— 26: 1,337,749
59: 1,337,402
139— 20: 1,337,259
46: 1,337,389
85: 1,337,683
1,337,726
140— 102: 1,337,504
102.5: 1,337,616
141— 3: 1,337,308
144— 117: 1,337,350
143: 1,337,428
145: 1,337,695
208: 1,337,286
288: 1,337,821
291: 1,337,484
309: 1,337,485
146— 7: 1,337,968
14: 1,337,414
147— 32: 1,337,796
150— 2: 1,337,459
51: 1,337,898
151— 15: 1,337,700
21: 1,337,424
152— 8: 1,337,289
1,337,528
10: 1,337,513
11.5: 1,337,316
12: 1,337,371
1,337,606
13: 1,337,660
14: 1,337,443
16: 1,337,950
21: 1,337,446
1,337,652
32: 1,337,445
47: 1,337,569
153— 6: 1,337,463
48: 1,337,587
154— 1: 1,337,702
2: 1,337,690
11: 1,337,207
27: 1,337,254
45: 1,337,278
155— 7: 1,337,608
1,337,609
10: 1,337,295
81: 1,337,221
169: 1,337,919
158— 1: 1,337,703
76: 1,337,328
81: 1,337,498
104: 1,337,824
109: 1,337,801
161— 1: 1,337,680
15: 1,337,335
23: 1,337,759
1,337,760
164— 21: 1,337,307
49: 1,337,208
1,337,464
51: 1,337,675
62: 1,337,458
68: 1,337,778
167— 6: 1,337,538
168— 21: 1,337,194
48: 1,337,571
171— 119: 1,337,554
1,337,942
123: 1,337,648
209: 1,337,739
227: 1,337,686
229: 1,337,573
242: 1,337,855
1,337,875
314: 1,337,366
172— 239: 1,337,732
173— 360: 1,337,422
174— 89: 1,337,894
177: 1,337,798
175— 30: 1,337,284
183: 1,337,853
273: 1,337,357
294: 1,337,866
356: 1,337,915
361: 1,337,885
177— 327: 1,337,299
353: 1,337,736
178— 2: 1,337,797
23: 1,337,783
88: 1,337,748
179— 6: 1,337,197
1,337,304
17: R.14,846
18: R.337,309
1,337,310
1,337,324
1,337,484
1,337,699
1,337,713

179— 18: 1,337,714
1,337,715
1,337,753
27: 1,337,482
1,337,671
1,337,681
1,337,710
1,337,711
1,337,712
1,337,740
1,337,782
27. 5: 1,337,285
1,337,325
1,337,784
1,337,794
35: 1,337,755
42: 1,337,301
43: 1,337,676
46: 1,337,761
50: 1,337,297
51: 1,337,858
72: 1,337,471
73: 1,337,752
1,337,976
90: 1,337,198
1,337,314
93: 1,337,754
100: 1,337,692
164: 1,337,892
167: 1,337,741
171: 1,337,694
180— 1: 1,337,275
9: 1,337,905
11: 1,337,437
15: 1,337,672
22: 1,337,510
41: 1,337,874
183— 7: 1,337,488
1,337,489
65: 1,337,564
75: 1,337,984
184— 1: 1,337,408
6: 1,337,931
11: 1,337,581
37: 1,337,494
48: 1,337,432
1,337,717
69: 1,337,687
185— 45: 1,337,385
187— 97: 1,337,943
188— 65: 1,337,786
78: 1,337,815
127: 1,337,948
189— 11: 1,337,487
190— 12: 1,337,449
192— 22: 1,337,634
193— 2: 1,337,351
3: 1,337,896
10: 1,337,738
56: 1,337,356
194— 61: 1,337,539
196— 3: 1,337,287
26: 1,337,523
197— 22: 1,337,563
47: 1,337,318
87: 1,337,977
171: 1,337,980
199— 56: 1,337,358
200— 24: 1,337,329
1,337,966
30: 1,337,456
50: 1,337,895
52: 1,337,217
84: 1,337,252
120: 1,337,806
129: R. 14,844
132: 1,337,949
139: 1,337,623
161: 1,337,961
166: 1,337,628
171: 1,337,469
202— 1: 1,337,496
203— 6: 1,337,342
204— 1: 1,337,811
5: 1,337,724
7: 1,337,718
64: 1,337,305
1,337,839
206— 12: 1,337,433
56: 1,337,838
208— 57: 1,337,624
68: 1,337,765
162: 1,337,396
165: 1,337,300
210— 4: 1,337,595
5: 1,337,215
13: 1,337,251
16: 1,337,517
210— 16: 1,337,756
18: 1,337,431
211— 8: 1,337,843
16: 1,337,812
1,337,922
29: 1,337,392
32: 1,337,588
33: 1,337,837
212— 59: 1,337,400
98: 1,337,667
213— 42: 1,337,281
54: 1,337,391
67: 1,337,521
214— 78: 1,337,332
215— 1: 1,337,518
14: 1,337,979
65: 1,337,923
88: 1,337,182
217— 23: 1,337,978
29: 1,337,592
60: 1,337,791
81: 1,337,188
218— 15: 1,337,229
219— 2: 1,337,457
8: 1,337,543
1,337,662
34: 1,337,725
1,337,779
38: 1,337,189
48: 1,337,826
220— 9: 1,337,611
24: 1,337,195
32: 1,337,733
44: 1,337,526
61: 1,337,491
221— 51: 1,337,688
78: 1,337,629
111: 1,337,440
130: 1,337,421
223— 14: 1,337,884
38: 1,337,480
224— 29: 1,337,647
1,337,911
225— 40: 1,337,206
226— 77: 1,337,410
93: 1,337,558
101: 1,337,743
228— 2: 1,337,361
38: 1,337,666
228— 68: 1,337,657
229— 6: 1,337,630
16: 1,337,507
17: 1,337,368
230— 1: 1,337,560
1,337,644
235— 22: 1,337,441
60: 1,337,844
79: 1,337,599
236— 18: R. 14,843
26: 1,337,701
34: 1,337,907
237— 12. 3: 1,337,946
238— 17: 1,337,544
46: 1,337,851
59: 1,337,862
260: 1,337,365
280: 1,337,621
240— 2: 1,337,222
7: 1,337,230
49: 1,337,880
51: 1,337,832
52: 1,337,867
61: 1,337,849
242— 74: 1,337,614
84. 5: 1,337,857
95: 1,337,757
120: 1,337,706
244— 2: 1,337,661
10: 1,337,409
12: 1,337,515
21: 1,337,336
1,337,788
22: 1,337,403
29: 1,337,762
31: 1,337,951
246— 33: 1,337,935
49: 1,337,255
295: 1,337,283
375: 1,337,527
487: 1,337,240
248— 20: 1,337,234
29: 1,337,541
30: 1,337,362
1,337,645
249— 1: 1,337,842
250— 1: 1,337,737
34: 1,337,904
35: 1,337,349
250— 36: 1,337,933
41: 1,337,245
1,337,246
1,337,505
1,337,549
251— 5: 1,337,247
24: 1,337,200
125: 1,337,326
144: 1,337,462
252— 1,337,542
1,337,546
253— 2: 1,337,890
136: 1,337,478
200: 1,337,659
254— 3: 1,337,804
78: 1,337,719
91: 1,337,519
192: 1,337,341
255— 71: 1,337,913
257— 22: 1,337,696
129: 1,337,415
131: 1,337,337
207: 1,337,766
224: 1,337,473
258— 26: 1,337,956
259— 72: 1,337,716
92: 1,337,864
107: 1,337,777
131: 1,337,860
141: 1,337,453
144: 1,337,373
261— 50: 1,337,226
263— 34: 1,337,244
264— 3: 1,337,865
266— 6: 1,337,465
267— 3: 1,337,878
17: 1,337,346
27: 1,337,345
28: 1,337,291
65: 1,337,579
268— 17: 1,337,461
18: 1,337,776
270— 57: 1,337,900
271— 79: 1,337,223
273— 1,337,530
277— 18: 1,337,952
279— 1: 1,337,313
280— 14: 1,337,833
49: 1,337,438
280— 51: 1,337,861
97: 1,337,830
106. 5: 1,337,501
144: 1,337,416
281— 20: 1,337,612
42: 1,337,582
283— 1: 1,337,835
285— 96: 1,337,288
126: 1,337,547
145: 1,337,227
1,337,228
167: 1,337,427
286— 30: 1,337,468
287— 87: 1,337,235
111: 1,337,642
290— 4: 1,337,613
35: R. 14,842
1,337,363
1,337,364
1,337,887
38: 1,337,649
48: 1,337,973
292— 44: 1,337,638
171: 1,337,513
228: 1,337,447
300: 1,337,495
322: 1,337,985
293— 55: 1,337,522
294— 19: 1,337,398
30: 1,337,450
51: 1,337,939
96: 1,337,902
102: 1,337,476
296— 94: 1,337,296
1,337,472
110: 1,337,360
145: 1,337,302
297— 14: 1,337,367
1,337,529
299— 60: 1,337,744
98: 1,337,467
121: 1,337,589
144: 1,337,516
302— 32: R. 14,841

BANGOR PUBLIC
AUG 7 1920
LIBRARY

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbadini, Orgerio, Fairbanks, Pa. Separable rim. No. 1,335,778; Apr. 6; v. 273; p. 15.

Abbott, Cecil H., Chester, Va., assignor of one-half to J. L. Fountain, Jr., Raleigh, N. C. Incubator. No. 1,337,183; Apr. 20; v. 273; p. 415.

Abbott, William G., Jr., Wilton, N. H. Gas-lubricated bearing. No. 1,337,742; Apr. 20; v. 273; p. 521.

Abel, Mitchel A., Newark, N. J. Ice-cream freezer. No. 1,337,988; Apr. 27; v. 273; p. 637.

Abercrombie, Charles M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,338,064; Apr. 27; v. 273; p. 652.

Abizaid, Alkoury A., Washington, D. C. Buckle. No. 1,337,181; Apr. 20; v. 273; p. 415.

Acker, Nicholas A., Oakland, Calif., assignor to American Can Company, New York, N. Y. Lining can ends. No. 1,336,013; Apr. 6; v. 273; p. 59.

Ackroyd, John H., Milford, Conn. Gas-burner and body-covering therefor. No. 1,335,869; Apr. 6; v. 273; p. 31.

Acme Cement Plaster Company. (See Pipe, Edward H., assignor.)

Adams, Elliot Q. (See Wise, Louis E., assignor.)

Adams, Elliot Q., Berkeley, Calif., and Louis E. Wise, New York, N. Y. Making photosensitizing dyes effective for infra-red radiation. No. 1,338,349; Apr. 27; v. 273; p. 706.

Adams, Lythe S., Venice, Calif. Cable-laying machine. No. 1,337,184; Apr. 20; v. 273; p. 415.

Adamson, David W., Richfield, Utah. Cement. No. 1,338,117; Apr. 27; v. 273; p. 662.

Adjuria Incorporated. (See Brewer, Charles A., assignor.)

Aero & General Pump Manufacturing Company. (See Briggs, John C., assignor.)

Aeschbach, Friedrich, Aarau, Switzerland. Mixing and kneading machine. No. 1,336,878; Apr. 13; v. 273; p. 283.

Agranat, Simon, assignor to J. Levy, Boston, Mass. Combined clock and time-stamp. No. 1,338,413; Apr. 27; v. 273; p. 717.

Ahlen, William. (See Williams, H. D., and Ahlen.)

Ahlswede, Charles, Manitowoc, Wis. Vehicle signaling device. No. 1,337,185; Apr. 20; v. 273; p. 415.

Ahman, Frank P., Norfolk, Va. Headlight. No. 1,336,407; Apr. 13; v. 273; p. 193.

Ahrens, Charles W., New York, N. Y. Collar-supporter. No. 1,337,989; Apr. 27; v. 273; p. 637.

Ainsworth, Harry G., Kentland, Ind. Trousers-support. No. 1,335,927; Apr. 6; v. 273; p. 42.

Air Reduction Company. (See Metzger, Floyd J., assignor.)

Aitken, William, assignor to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,338,350; Apr. 27; v. 273; p. 706.

Akerley, Fred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for forming or finishing top lifts. No. 1,337,990; Apr. 27; v. 273; p. 637.

Aktiebolaget Carlit. (See Carlson, Oscar B., assignor.)

Aktiebolaget Nitrogenium. (See Carlson, Oscar F. S., assignor.)

Aktiebolaget Salenius' Werkstader. (See Eskilson, Sven A., assignor.)

Albert, Walter P. (See Williams, S. B., Jr., and Albert.)

Albertson, Nels P., Frankford, S. D. Frame-elevating means for shock-loaders. No. 1,337,874; Apr. 20; v. 273; p. 546.

Albright, Warren W., Columbiana, Ala. Door-check. No. 1,338,205; Apr. 27; v. 273; p. 678.

Alexander Brothers. (See Gibb, Walton, assignor.)

Alexander, James G., Ames, Iowa. Spring-beam cultivator. No. 1,335,928; Apr. 6; v. 273; p. 42.

Alexander, Walter, New York, N. Y. Coating process. No. 1,337,380; Apr. 20; v. 273; p. 452.

Alexander, Walter, New York, N. Y. Adhesive. No. 1,337,381; Apr. 20; v. 273; p. 452.

Alexander, Walter, New York, N. Y. Adhesive composition and making same. No. 1,337,382; Apr. 20; v. 273; p. 452.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,875; Apr. 20; v. 273; p. 546.

Alexovits, Gregor, Guttenberg, N. J. Device for locating sunken ships. No. 1,337,383; Apr. 20; v. 273; p. 453.

Alfisi, Giuseppe, Toronto, Ontario, Canada. Egg-boiler. No. 1,337,876; Apr. 20; v. 273; p. 546.

Alien Property Custodian. (See Grüttefien, Wilhelm, assignor.)

Allan, Allen C., Chicago, Ill. Pliers, wrench, and the like. No. 1,337,986; Apr. 27; v. 273; p. 637.

Allatt, Thomas, New York, assignor to International Cork Company, Brooklyn, N. Y. Disk-sorting machine. No. 1,337,031; Apr. 13; v. 273; p. 312.

Allen, Bernard J., Blythe Bridge, and R. Y. Ames, Gidea Park, England. Casting pottery and other like articles. No. 1,336,180; Apr. 6; v. 273; p. 90.

Allen, Bernard J., Stoke-upon-Trent, England. Molding semisolid substances. No. 1,337,811; Apr. 20; v. 273; p. 533.

Allen, Charles J., *et al.*, executors. (See Allen, Samuel L.)

Allen, Earl E., Council Bluffs, Iowa. Door-opener. No. 1,337,384; Apr. 20; v. 273; p. 453.

Allen, Elizabeth R., *et al.*, executors. (See Allen, Samuel L.)

Allen Filter Company, The. (See Shull, Leo W., assignor.)

Allen, Frederick E., assignor to Forsythe Mfg. Co., Joplin, Mo. Trailer. No. 1,338,546; Apr. 27; v. 273; p. 742.

Allen, James A. assignor of one-half to B. F. Briggs, Providence, R. I. Printing-press. No. 1,337,186; Apr. 20; v. 273; p. 416.

Allen, John E., Pittsburgh, Okla. Check-book. No. 1,336,804; Apr. 13; v. 273; p. 268.

Allen, John V., Providence, R. I. Thread-lock for hand-threading loom-shuttles. No. 1,336,805; Apr. 13; v. 273; p. 269.

Allan, John W., Minneapolis, Minn. Combination boiler and furnace. No. 1,337,632; Apr. 20; v. 273; p. 499.

Allen, Robert, Caversham, England. Piston or piston-valve. No. 1,335,951; Apr. 6; v. 273; p. 46.

Allen, Rodney D., assignor to B. L. Johnson, Philadelphia, Pa. Record-holding cabinet for talking-machines. No. 1,337,812; Apr. 20; v. 273; p. 534.

Allen, Russell G., Toledo, Ohio. Receptacle-stopper. No. 1,337,182; Apr. 20; v. 273; p. 415.

Allen, Samuel L., deceased, Moorestown, N. J.; S. H. Allen, C. J. Allen, E. R. Allen, S. J. Allen, and E. A. Elfreth, executors. Agricultural implement. No. 1,338,273; Apr. 27; v. 273; p. 691.

Allen, Sarah H., *et al.*, executors. (See Allen, Samuel L.)

Allen, Susan J., *et al.*, executors. (See Allen, Samuel L.)

Allen, Victor M., Waverly, N. Y. Automatic window-ventilator. No. 1,335,929; Apr. 6; v. 273; p. 42.

Allen, William H., Detroit, Mich. Tanned sponge. No. 1,336,806; Apr. 13; v. 273; p. 269.

Alling, William T. (See Deakins G. C., and Harker, assignors.)

Allis, Dexter W., Whitman, assignor to A. M. Brewster, Boston, Mass. Phonograph driving mechanism. No. 1,335,809; Apr. 6; v. 273; p. 20.

Allman, David W., Toronto, Ontario, Canada. Gas water-heater. No. 1,336,937; Apr. 13; v. 273; p. 294.

Almagia, Leone, Cornigliano Ligure, and E. Guerreschi, Sampierdarena, assignors to Società Anonima Italiana Gio. Ansaldo & C., Cornigliano Ligure, Italy. Electric furnace. No. 1,336,807; Apr. 13; v. 273; p. 269.

Almeter, Lewis L. (See Lemke, A. C., and Almeter.)

Alphaero Engines (Foreign Patents). (See Alston, Charles H. T., assignor.)

Alsberg, Julius, Chicago, Ill. Starting device for burners. No. 1,337,498; Apr. 20; v. 273; p. 474.

Alsten, Alfred O. (See Johnson, A. L., and Alsten.)

Alsten, John A., *et al.* (See Johnson, A. L., and Alsten, assignors.)

Alston, Charles H. T., Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,335,952; Apr. 6; v. 273; p. 47.

Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Cup and releasable handle therefor. No. 1,338,480; Apr. 27; v. 273; p. 730.

Altenburg, Eric P., Columbiana, Ohio. Pneumatic tire. No. 1,337,813; Apr. 20; v. 273; p. 534.

Altvater, Herbert G., Denver, Colo. Variable-speed-transmission mechanism. No. 1,337,578; Apr. 20; v. 273; p. 489.

Alva Carpet & Rug Company. (See Fromuth, August G., assignor.)
Aman, Jacob, Talmadge township, Ottawa county, Mich. Bean or weed cutter. No. 1,337,499; Apr. 20; v. 273; p. 475.
American Bosch Magneto Corporation. (See Krauss, Adolf, assignor.)
American Bosch Magneto Corporation. (See Norman, Frederick D., assignor.)
American Bosch Magneto Corporation. (See Schäfer, Max, assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang E., assignor.)
American Button & Fastener Company. (See Elliott, William E., assignor.)
American Can Company. (See Acker, Nicholas A., assignor.)
American Can Company. (See Dun Lany, William P., assignor.)
American Can Company. (See Taylor, William E., assignor.)
American Can Company. (See Wood, Frederick P., assignor.)
American Car and Foundry Company. (See Amundsen, Godfrey B., assignor.)
American Car and Foundry Company. (See Anchincloss, William K., assignor.)
American Car and Foundry Company. (See Bates, Richard A., assignor.)
American Car and Foundry Company. (See Joy, Robert W., assignor.)
American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
American Car and Foundry Company. (See Wolff, Herbert W., assignor.)
American Dressler Tunnel Kilns. (See Swinnerton, Bertram B., assignor.)
American Fabrics Company, The. (See Tuck, Eugen, assignor.)
American Hardware Corporation. (See Svenson, Charles W., assignor.)
American Hoist & Derrick Co. (See Brink, Harry L., assignor.)
American Laundry Machinery Co. (See Binder, Gottlob, assignor.)
American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
American Metal Shoe Company. (See Trolle, Louis, assignor.)
American Optical Company. (See Mathewson, Henry B., assignor.)
American Oven & Machine Company. (See Royan, George, assignor.)
American Steel Foundries. (See Peycke, Armand H., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
American Stove Company. (See Child, Guy B., assignor.)
American Telephone and Telegraph Company. (See Gherardi, Bancroft, assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
American Well Works, The. (See Kerr, Charles V., assignor.)
Ames, Robert Y. (See Allen, B. J., and Ames.)
Amory, William N., New York, N. Y. Shock-absorber for vehicles. No. 1,337,579; Apr. 20; v. 273; p. 490.
Amphion Piano Player Company, The. (See Doman, Lewis B., assignor.)
Amundsen, Godfrey B., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Friction-driver for lathes and grinders. No. 1,336,548; Apr. 13; v. 273; p. 219.
Andersen, Jörgen T., Gundstrup, near Otterup, Island of Funen, Denmark. Stylographic fountain-pen. No. 1,336,119; Apr. 6; v. 273; p. 79.
Anderson, Albert J., La Crosse, Wis. Coupling attachment. No. 1,336,181; Apr. 6; v. 273; p. 90.
Anderson, Albert S., assignor to G. Waldref, St. Paul, Minn. Equalizer for hoists. No. 1,337,111; Apr. 13; v. 273; p. 327.
Anderson, Carl O., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Cushion-spring for cream-separator neck-bearings. No. 1,337,987; Apr. 27; v. 273; p. 637.
Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)
Anderson, Ernest D., assignor to E. D. Anderson Inc., New York, N. Y. Wrapping-machine. No. 1,336,549; Apr. 13; v. 273; p. 219.
Anderson, Ernst G. K., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,335,810; Apr. 6; v. 273; p. 20.
Anderson, John, Seattle, Wash. Auto-cab. No. 1,336,631; Apr. 6; v. 273; p. 118.
Anderson, Oscar W., Valley City, N. D. Piston-ring. No. 1,336,670; Apr. 13; v. 273; p. 242.
Andersson, Victor O. J., Malmö, Sweden. Calculating-machine. No. 1,338,481; Apr. 27; v. 273; p. 730.
Anderwert, Eugen, and Hermann Fritzsche, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Substantive othooxyazodyestuffs. No. 1,338,414; Apr. 27; v. 273; p. 717.
Andresen, Herman P., Chicago, Ill. Sign and holder therefor. No. 1,335,870; Apr. 6; v. 273; p. 31.
Andresen, Hilmar, Chicago, Ill. Bridge. No. 1,337,187; Apr. 20; v. 273; p. 416.
Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Phthalic anhydrid. No. 1,336,182; Apr. 6; v. 273; p. 90.
Anglada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Producing metal wheels. No. 1,336,332; Apr. 6; v. 273; p. 118.
Anglada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Producing wheels. No. 1,336,333; Apr. 6; v. 273; p. 119.
Anglada, Joseph A., Philadelphia, Pa., assignor to Baker Wheel & Rim Company, Chicago, Ill. Metal wheel. No. 1,336,334; Apr. 6; v. 273; p. 119.
Angier, Edward H., Framingham, Mass. Barrel-cover. No. 1,337,188; Apr. 20; v. 273; p. 416.
Angier, Edward H., Framingham, Mass. Machine for reinforcing paper and other material. No. 1,338,164; Apr. 27; v. 273; p. 670.
Annicq, Joseph, Renaix, Belgium. Dyeing, washing, and similarly treating yarn in the form of banks, skeins, or the like. No. 1,337,877; Apr. 20; v. 273; p. 547.
Anthony, Alfred H., Colchester, England. Valve mechanism for reciprocating engines. No. 1,336,711; Apr. 13; v. 273; p. 251.
Antonelli, Domenico, Philadelphia, Pa. Pedal-operating mechanism. No. 1,337,685; Apr. 20; v. 273; p. 510.
Antonuk, Lawrenty, Montreal, Quebec, Canada., assignor of forty-nine per cent. to S. Mikalkavitch, Middletown, Pa. Safety-box for milk and the like. No. 1,338,659; Apr. 27; v. 273; p. 762.
Apfel, Philip F., Seattle, Wash. Electrical heating element. No. 1,337,633; Apr. 20; v. 273; p. 500.
Appinel, Giuseppe, Elkville, Ill. Multiple propelled balloon. No. 1,337,032; Apr. 13; v. 273; p. 312.
Archer, Ebenezer G., Langley, England. Direction-indicator for road-vehicles. No. 1,337,991; Apr. 27; v. 273; p. 638.
Arduin Brothers. (See Arduin, Paul, assignor.)
Arduin, Paul, assignor to Arduin Brothers, Mount Vernon, N. Y. Machine for making pastry cones. No. 1,337,500; Apr. 20; v. 273; p. 475.
Arkin, William, New York, N. Y. Artificial tooth. No. 1,335,717; Apr. 6; v. 273; p. 3.
Arluskes, Veronica, Bridgeport, Conn. Compressor. No. 1,337,501; Apr. 20; v. 273; p. 475.
Armbruster, Leopold, New York, N. Y. Cooking utensil. No. 1,338,547; Apr. 27; v. 273; p. 742.
Armstrong, Edwin H. (See Pupin, M. I., and Armstrong.)
Arrow Electric Company, The. (See Gates, Frederic P., assignor.)
Arthur, Edward D., and W. G. Cartter, Arcadia, Calif. Solar heater. No. 1,338,644; Apr. 27; v. 273; p. 760.
Arthur, Harry A., Philadelphia, Pa. Operation-control record. No. 1,336,120; Apr. 6; v. 273; p. 79.
Arton, John A., Chicago, Ill. Bed-chair. No. 1,336,062; Apr. 6; v. 273; p. 67.
Ash, Richard L., assignor of one-third to L. Gibson and one-third to H. Murray, Philadelphia, Pa. Hat and garment holder. No. 1,336,408; Apr. 13; v. 273; p. 193.
Ashe, William B., Hampton, and F. C. Bivins, Newport News, Va. Rivet-gun rig. No. 1,336,121; Apr. 6; v. 273; p. 79.
Ashley, Frank M., Brooklyn, N. Y. Peg-box cover for violins and the like. No. 1,336,409; Apr. 13; v. 273; p. 193.
Ashton, Hannah, executrix. (See Ashton, Orrell.)
Ashton, Orrell, deceased, by H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,335,779; Apr. 6; v. 272; p. 15.
Ashworth, Fred, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,337,992; Apr. 27; v. 273; p. 638.
spromet Company. (See McAllister, Albert, assignor.)
Atkins, Walter, assignor of one-third to W. J. Pedler and one-third to A. D. Plughoff, San Francisco, Calif. Child's velocipede. No. 1,336,879; Apr. 13; v. 273; p. 283.
Atlas Bread Company. (See Hopkins, W. G., and Sullivan, assignors.)
Atwood George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Speech-reproducing device. No. 1,337,304; Apr. 20; v. 273; p. 438.
Auchincloss, William K., assignor to American Car and Foundry Company, New York, N. Y. Tank-anchor for tank-cars. No. 1,336,410; Apr. 13; v. 273; p. 193.
Aurand, Arthur G., Los Angeles, Calif. Making concrete units. No. 1,336,712; Apr. 13; v. 273; p. 251.
Austin, Ellsworth W., Plymouth, Conn. Vaporizing-stopper. No. 1,337,189. Apr. 20; v. 273; p. 416.
Austin, Frederick C. (See Rosendahl, Nils M., assignor.)
Austin, Frederick C. (See Stahl, Charles E., assignor.)
Austin, Henry K., Reading, Mass. Tire-inflating pump. No. 1,335,718; Apr. 6; v. 273; p. 3.
Automatic Electric Company. (See Erickson, John, assignor.) (Reissue.)
Automatic Electric Company. (See Hershey, Harry E., assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.) (Reissue.)

Avery, Charles E., Trenton, assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J. Electromagnet. No. 1,338,548; Apr. 27; v. 273; p. 742.
Avery, Courtney C. (See Underhill, W. A., and Avery.)
Aylor, William E., and M. Rauh, Dayton, Ohio. Cotterkey. No. 1,336,498; Apr. 13; v. 273; p. 209.
Aylor, William E., Dayton, Ohio. Cotter-extractor. No. 1,336,938; Apr. 13; v. 273; p. 294.
Babcock, Harold C., and J. H. McCreary, assignors to The Thornburgh Manufacturing Company, Bowling Green, Ohio. Tandem soil pulverizer and packer. No. 1,337,425; Apr. 20; v. 273; p. 460.
Babecki, Kostantyn, Winfield, N. Y. Torpedo-guard. No. 1,337,502; Apr. 20; v. 273; p. 475.
Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Pulsator for milking-machines. No. 1,335,953; Apr. 6; v. 273; p. 47.
Bachman, Arthur and H., Philadelphia, Pa. Semaphore for automobiles. No. 1,336,063; Apr. 6; v. 273; p. 68.
Bachman, Harry. (See Bachman, Arthur and H.)
Backert, Henry. (See Mertens, P., and Backert.)
Backus, Albert, Okmulgee, Okla. Golf-club. No. 1,336,671; Apr. 13; v. 273; p. 243.
Bacon, George M., Salt Lake City, Utah. Multiplying-machine. No. 1,338,274; Apr. 27; v. 273; p. 691.
Bacon, William M., assignor to Enameled Steel Sign Company, Chicago, Ill. Printing-machine. No. 1,338,165; Apr. 27; v. 273; p. 671.
Badeker, John, assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr. Metallic rod-packing. No. 1,338,206; Apr. 27; v. 273; p. 678.
Badger Tool Company. (See Gardner, Edward B., assignor.)
Baehr, George, and E. L. Messler, Pittsburgh, Pa. Deflecting-wall for furnaces. No. 1,336,499; Apr. 13; v. 273; p. 209.
Baender, Charles L., Oakland, Calif. Snubber. No. 1,337,878; Apr. 20; v. 273; p. 547.
Baer, Abe, *et al.* (See Bragg, Charles T., assignor.)
Baer, Max, *et al.* (See Bragg, Charles T., assignor.)
Bagley, Harley S. (See Emerson, George A., assignor.)
Bahler, Fred, Gilroy, Calif. Automobile-signal. No. 1,336,713; Apr. 13; v. 273; p. 251.
Bahr, August T. J., assignor of one-half to E. S. Keller, Danville, Ill. Mechanical draw-delivery filing-cabinet. No. 1,336,183; Apr. 6; v. 273; p. 91.
Bailey, Theodorus S., Berkeley, Calif. Vessel-filling device. No. 1,337,743; Apr. 20; v. 273; p. 521.
Bainton, George W., assignor of one-half to Roland & Whytock Company, Providence, R. I. Safety-catch for pins. No. 1,337,114; Apr. 13; v. 273; p. 328.
Baird, Alfred M., *et al.* (See Baird, Clifford J., assignor.)
Baird, Clifford J., assignor of one-third to F. G. Hall and one-third to A. M. Baird, Portland, Oreg. Broom. No. 1,337,503; Apr. 20; v. 273; p. 475.
Baker, Clyde L., Central Lake, Mich. Plow-wheel adjuster. No. 1,336,550; Apr. 13; v. 273; p. 219.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Motor-vehicle wheel. No. 1,336,335; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-vehicles. No. 1,336,336; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Tire-carrying wheel for motor-vehicles. No. 1,336,337; Apr. 6; v. 273; p. 119.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-vehicles. No. 1,336,338; Apr. 6; v. 273; p. 119.
Baker, Hartley O. (See Cook, W. P., and Baker.)
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Water-tube boiler. No. 1,336,714; Apr. 13; v. 273; p. 251.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-frame. No. 1,336,715; Apr. 13; v. 273; p. 251.
Baker, Hartley O., assignor to The Baker Steam Motor Car Manufacturing Co., Inc., Pueblo, Colo. Axle connection for engines. No. 1,336,716; Apr. 13; v. 273; p. 251.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Fuel-pumping system. No. 1,336,717; Apr. 13; v. 273; p. 252.
Baker, Harvey C., Chicago, Ill. Window-awning. No. 1,335,930; Apr. 6; v. 273; p. 42.
Baker, Newton D. (See Trumpour, Frederick J., assignor.)
Baker, R. & L., Company, The. (See Fend, Roland S., assignor.)
Baker, Ralph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode-adapter. No. 1,336,603; Apr. 13; v. 273; p. 230.
Baker, Richard T., Philadelphia, Pa. Tire-protector. No. 1,336,271; Apr. 6; v. 273; p. 107.
Baker, Robert E., Cleveland, Ohio. Storage-bin. No. 1,338,482; Apr. 27; v. 273; p. 730.
Baker, Robert E., Cleveland, Ohio. Storage-bin. No. 1,338,483; Apr. 27; v. 273; p. 730.
Baker, Robert E., Cleveland, Ohio. Constructing storage-receptacles. No 1,338,484; Apr. 27; v. 273; p. 731.
Baker, Rollyn H., Dayton, Ohio. Irrigated brush. No. 1,336,604; Apr. 13; v. 273; p. 230.
Baker Steam Motor Car and Manufacturing Company, The. (See Baker, Hartley O., assignor.)
Baker Steam Motor Car and Manufacturing Company, The. (See Cook, W. P., and Baker, assignors.)
Baker, Thomas Y. (See Hughes, H. A., and Baker.)
Baker Wheel & Rim Company. (See Anglada, Joseph A., assignor.)
Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
Bakken, Ole K., Northwood, N. D. Automobile transmission-gearing. No. 1,335,811; Apr. 6; v. 273; p. 20.
Baldwin, Albert C. (See Thomson, William E., assignor.)
Baldwin, Charles F. (See Williams, S. B., Jr., and Baldwin.)
Baldwin, Florence D., administratrix. (See Williams, S. B., Jr., and Baldwin.)
Baldwin Locomotive Works, The. (See Deans, F. B., and Kirk., assignors.)
Ball, Clarence R., Washington, D. C. Bed. No. 1,337,580; Apr. 20; v. 273; p. 490.
Ball, John R., Durango, Colo. Inclosed-screen ball-mill. No. 1,337,033; Apr. 13; v. 273; p. 313.
Ball, Rowland, La Grange, Ill. Spring and shock-absorber. No. 1,336,184; Apr. 6; v. 273; p. 91.
Ballerstedt, William D., Los Angeles, Calif. Sprinkler system for irrigating lawns, gardens, fields, and the like. No. 1,337,744; Apr. 20; v. 273; p. 521.
Balsly, Ralph E., Cincinnati, Ohio. Stump-pulling machine. No. 1,335,931; Apr. 6; v. 273; p. 43.
Baltimore Process Company, The. (See Straus, Alexander L., assignor.)
Bammer, Pius, assignor to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Feeding mechanism. No. 1,336,771; Apr. 13; v. 273; p. 262.
Banaji, Framerz M. M., Bombay, India. Keyboard for typewriters. No. 1,336,122; Apr. 6; v. 273; p. 79.
Bancroft, Clinton. (See Horsman, William H., assignor.)
Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Automatic turning-machine. No. 1,338,275; Apr. 27; v. 273; p. 691.
Bank, Frederick V., Cincinnati, Ohio. Window-cleaning attachment. No. 1,336,672; Apr. 13; v. 273; p. 243.
Banker, Oscar H. (See Reinhardt, W. C., and Banker.)
Banta, Leonard A., assignor of one-half to C. E. Ellis, Fellows, Calif. Attachment for wrenches. No. 1,338,549; Apr. 27; v. 273; p. 742.
Banta, Pauline W., Tampa, Fla. Heating-stove. No. 1,336,412; Apr. 13; v. 273; p. 194.
Bantjes, John T. F., Klerksdorp, Transvaal, South Africa. Tool head and handle construction. No. 1,336,185; Apr. 6; v. 273; p. 91.
Barbre, Clarence. (See Cannon, H., Barbre, and Leslie.)
Barbre, Clarence. (See Leslie, E. H., and Barbre.)
Bardol, Frank V. E., Buffalo, N. Y. Asphalt-cutter. No. 1,337,426; Apr. 20; v. 273; p. 461.
Barfoed, Svend, Berkeley, Calif. Electric furnace. No. 1,336,939; Apr. 13; v. 273; p. 295.
Bargar, Frederick C., assignor to Nu-Ex Fire Appliance Company, Columbus, Ohio. Fire-extinguisher. No. 1,338,166; Apr. 27; v. 273; p. 671.
Barger, Walter R., Benkelman, Nebr. Calf-weaner. No. 1,338,606; Apr. 27; v. 273; p. 753.
Barghausen, John F., Washington, D. C. Fruit grader and sizer. No. 1,338,276; Apr. 27; v. 273; p. 691.
Barker, England J., Chicago, Ill. Autographic register. No. 1,338,167; Apr. 27; v. 273; p. 671.
Barksdale, Sherod P., Philadelphia, Pa. Step. No. 1,336,718; Apr. 13; v. 273; p. 252.
Barnes, Charles W., Puyallup, Wash., assignor of one-fourth to B. W. Coiner, Tacoma, Wash. Hose and pipe coupling. No. 1,336,123; Apr. 6; v. 273; p. 80.
Barnes, Charles W., Logansport, Ind. Vacuum cleaning apparatus. No. 1,336,994; Apr. 13; v. 273; p. 304.
Barnes, John W., Rock Ferry, Birkenhead, England. Grinding apparatus specially applicable for grinding the interior of the A-tubes of guns. No. 1,336,014; Apr. 6; v. 273; p. 59.
Barnes, Samuel C., Williamsport, Md., assignor to Frick Company, Waynesboro, Pa. Oil-pump. No. 1,337,581; Apr. 20; v. 273; p. 490.
Barnett, John B., assignor of one-half to R. N. Tutt, Kansas, Mo. Automatic display-sign. No. 1,336,411; Apr. 13; v. 273; p. 193.
Barnholth, C. A. (See Nelson, Oscar T., assignor.)
Baron, Frank, New York, N. Y. Clothes-line support. No. No. 1,336,186; Apr. 6; v. 273; p. 91.
Barr, David W., Des Moines, Iowa. Self-measuring lubricant-delivery device. No. 1,336,187; Apr. 6; v. 273; p. 91.
Barrett Company, The. (See Perry, Ray P., assignor.)
Barrett, William W., Lewiston, Idaho. Planter. No. 1,336,124; Apr. 6; v. 273; p. 80.
Barron, William L., New York, N. Y., and F. E. Osal, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,336,808; Apr. 13; v. 273; p. 269.
Barrow, David W., Chattanooga, Tenn. Dental appliance. No. 1,338,415; Apr. 27; v. 273; p. 717.
Barry, David R., Beaumont, Tex. Book-holding device. No. 1,337,582; Apr. 20; v. 273; p. 490.
Barstow, Edwin O. (See Dow, H. H., and Barstow.)
Barton, Francis M., Chicago, Ill. Concrete building. No. 1,335,780; Apr. 6; v. 273; p. 15.
Barton, Morris H. (See Silvins, Ellis T., assignor.)
Bass, Ernest C., New York, N. Y. Focal-plane shutter. (Reissue.) No. 14,837; Apr. 13; v. 273; p. 340.

Bassett, George C. (See Mayo, Joseph E., assignor.)
Bassett, Robert N., Company. (See Russ, Friend A., assignor.)
Bassett, Robert N., Company. (See Russ, John U., assignor.)
Bassett, Rollo S., Champaign, Ill. Portable building. No. 1,337,745; Apr. 20; v. 273; p. 522.
Bassett, Rollo, S., Champaign, Ill. Chimney. No. 1,337,746; Apr. 20; v. 273; p. 522.
Bastable, Edward H., South Braintree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,337,190; Apr. 20; v. 273; p. 416.
Bates, Richard A., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Lubricating device. No. 1,336,413; Apr. 13; v. 273; p. 194.
Bátorfy, Joseph, New York, N. Y. Marine vessel. No. 1,337,747; Apr. 20; v. 273; p. 522.
Batty, Ernest J., East Providence, R. I. Nursing-bottle holder. No. 1,336,809; Apr. 13; v. 273; p. 269.
Bauermeister, Carl E., Terre Haute, Ind. Sampling-jar. No. 1,337,034; Apr. 13; v. 273; p. 313.
Bausch & Lomb Optical Company. (See Poser, Max, assignor.)
Baulig, Herman, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y. Mechanism for treating fruit juice. No. 1,336,719; Apr. 13; v. 273; p. 252.
Baulig, Herman, Egg Harbor, N. J., assignor to H. T. Dewey & Sons Company, New York, N. Y. Treating fruit juice. No. 1,336,720; Apr. 13; v. 273; p. 252.
Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Reducing and refining apparatus. No. 1,337,583; Apr. 20; v. 273; p. 490.
Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Feeding apparatus. No. 1,337,584; Apr. 20; v. 273; p. 491.
Baxter, William L. (See Cass, Charles W., assignor.)
Bayles, Robert A., Stockton, Calif. Excavating-machine. No. 1,335,932; Apr. 6; v. 273; p. 43.
Beach, John, assignor of one-half to P. F. Golden, Springfield, Ohio. Pipe and hose coupling. No. 1,337,427; Apr. 20; v. 273; p. 461.
Beale, Bessie, Broadstone, England. Sleeve-grip. No. 1,336,339; Apr. 6; v. 273; p. 120.
Beall Brothers. (See Wightman, Charles K., assignor.)
Bean, Andrew J., Ottsville, Pa. Pad. No. 1,337,879; Apr. 20; v. 273; p. 547.
Bean, Orester U., New York, N. Y. Producing gas. No. 1,337,537; Apr. 20; v. 273; p. 482.
Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Molding-machine. No. 1,337,585; Apr. 20; v. 273; p. 491.
Beatty, Edward, Brooklyn, N. Y. Clothes-washer. No. 1,338,277; Apr. 27; v. 273; p. 692.
Beaufrere, Charles F., Central Islip, N. Y. Skimming-spoon. No. 1,337,814; Apr. 20; v. 273; p. 534.
Beaudry, Dieudonne A., Gilbertville, Mass. Elevator. No. 1,335,719; Apr. 6; v. 273; p. 3.
Beaven, Leslie W., Chicago, Ill. Power-generating mechanism. No. 1,336,188; Apr. 6; v. 273; p. 92.
Beaver Company, The. (See Sidwell, Benjamin W., assignor.)
Bechler, André, Moutier, Switzerland. Gage for screw-threads. No. 1,336,189; Apr. 6; v. 273; p. 92.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Plate-clamping device for printing-presses. No. 1,336,721; Apr. 13; v. 273; p. 253.
Bechtold, Joseph H., Sioux Falls, S. D. Cuff-button. No. 1,336,880; Apr. 13; v. 273; p. 283.
Beck, Allen B., Cleveland, Ohio. Device for preventing offset in printing-presses. No. 1,336,995; Apr. 13; v. 273; p. 305.
Beck, Rudolph H. (See Leonard, C. S., and Beck.)
Becker, John, Brooklyn, N. Y. Automatic wire-blank-cutting apparatus. No. 1,336,605; Apr. 13; v. 273; p. 230.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Tar-extractor apparatus and method. No. 1,337,984; Apr. 20; v. 273; p. 567.
Becket, Frederick M. (See Mardick, J. R., and Becket.)
Beckwith, George C. (See McGeouch, W. P., and Beckwith.)
Becvar, John O., Chicago, Ill. Fishhook. No. 1,336,987; Apr. 13; v. 273; p. 303.
Bedinger, Singleton B., Terrell, Tex. Price-tag. No. 1,337,586; Apr. 20; v. 273; p. 491.
Beebe, Norman H. (See Duvall, G. W., Beebe, and Smith.)
Beers, Edward C., Rochester, assignor to Phillips & Clark Stove Co., Inc., Geneva, N. Y. Convertible gas-flue for combination gas and coal ranges. No. 1,337,112; Apr. 13; v. 273; p. 327.
Begg, Jonathan, Oakland, Calif. Salvage-boat. No. 1,337,035; Apr. 13; v. 273; p. 313.
Begley, William J., Arverne, N. Y. Tail-light and traffic-signaling device for automobiles. No. 1,336,772; Apr. 13; v. 273; p. 262.
Behan, Charles D., Stigler, Okla. Well-bucket. No. 1,336,881; Apr. 13; v. 273; p. 283.
Behee, Joseph H., Leavenworth, Kans. Scroll-cutting machine. No. 1,337,428; Apr. 20; v. 273; p. 461.
Behr, Hans C., New York, N. Y. Process of and apparatus for separating liquids from solids. No. 1,336,722; Apr. 13; v. 273; p. 753.
Belden, Eduard H., assignor to Industrial Research Corporation, Toledo, Ohio. Equalizing brake mechanism. No. 1,337,815; Apr. 20; v. 273; p. 534.
Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Motor-vehicle. No. 1,335,720; Apr. 6; v. 273; p. 3.
Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,336,414; Apr. 13; v. 273; p. 194.
Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,337,748; Apr. 20; v. 273; p. 522.
Bell, Raymond T., and L. Mandel, Chicago, Ill., assignors to The Mandel Corporation. Brake or stop device for sound-reproducing machines. No. 1,336,606; Apr. 13; v. 273; p. 230.
Bell, William E., Boston, Mass. Electric switch. No. 1,338,607; Apr. 27; v. 273; p. 753.
Bell, William T., Lincoln, W. H. Watson, Wellingore, and L. W. Jones, Lincoln, England. Motor-plow. No. 1,338,550; Apr. 27; v. 273; p. 742.
Bellinger, Ray, Chicopee Falls, Mass. Window-lock. No. 1,338,416; Apr. 27; v. 273; p. 718.
Benard, Henri L. M. J., Paris, France. Flash-light for aerial navigation. No. 1,337,880; Apr. 20; v. 273; p. 547.
Bench, Marion F., Chillicothe, Mo. Folding crate. No. 1,338,608; Apr. 27; v. 273; p. 753.
Benecke, Adelbert O., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Engine-indicator. No. 1,336,810; Apr. 13; v. 273; p. 269.
Benjamin, Dowling, Camden, N. J. Condensing-radiator. No. 1,335,812; Apr. 6; v. 273; p. 20.
Benjamin Electric Manufacturing Company. (See Anderson, Ernst G. K., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Cottrell, William, assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 1,336,607; Apr. 13; v. 273; p. 230.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecting device. No. 1,336,608; Apr. 13; v. 273; p. 231.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Signal device for motor-vehicles. No. 1,336,609; Apr. 13; v. 273; p. 231.
Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc., New York, N. Y. Apparatus for producing smoke-screens. No. 1,336,557; Apr. 13; v. 273; p. 221.
Bennett, Edward, Washington, D. C. Combined card-holder and clamp. No. 1,336,723; Apr. 13; v. 273; p. 253.
Bennett, Ellwood F., Sayre, Pa. Rail-bender. No. 1,337,587; Apr. 20; v. 273; p. 491.
Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Melting and melting and reducing metals. No. 1,337,305; Apr. 20; v. 273; p. 438.
Benson, Andrew, Chicago, Ill., assignor, by mesne assignments, to Janesville Products Company, Janesville, Wis. Driving mechanism. No. 1,337,634; Apr. 20; v. 273; p. 500.
Benson, Bradley L., *et al.* (See Klenke, August C., assignor.)
Benson, Ralph W. (See Lacerda, Harry A., assignor.)
Benzinger, Albert, assignor of one-half to W. M. Schoenle, Cincinnati, Ohio. Closure. No. 1,336,811; Apr. 13; v. 273; p. 270.
Berberich, Charles, Waterbury, Conn. Cigar-tip cutter. No. 1,336,724; Apr. 13; v. 273; p. 253.
Bergendahl, Lewis J., Vallejo, Calif. Hair-cutter. No. 1,337,429; Apr. 20; v. 273; p. 461.
Bergeron, Clovis, assignor of one-half to E. W. Singletary, Morganza, La. Sewing-machine attachment. No. 1,336,340; Apr. 6; v. 273; p. 120.
Berghman, George H., Chicago, Ill. Skate-sharpener. No. 1,335,813; Apr. 6; v. 273; p. 21.
Berglof, Knut, Monessen, Pa. Annealing-furnace. No. 1,336,190; Apr. 6; v. 273; p. 92.
Bergmann, Frederic, Lyon, France. Eye-shield. No. 1,337,036; Apr. 13; v. 273; p. 313.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Heavy squaring-clamp. No. 1,335,721; Apr. 6; v. 273; p. 4.
Bergve, Elmar, Notodden, and O. Jensen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of concentrated nitric acid. No. 1,338,417; Apr. 27; v. 273; p. 718.
Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Forging-machine. No. 1,337,430; Apr. 20; v. 273; p. 461.
Berkstresser, Robert H., York, Pa. Time-controlled mechanism. No. 1,337,037; Apr. 13; v. 273; p. 313.
Bernath, Joseph, Merrill, Mich. Tongs. No. 1,338,065; Apr. 27; v. 273; p. 652.
Bernert, George, assignor to Bernert Manufacturing Company, Milwaukee, Wis. Conveyer. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.
Bernert Manufacturing Company. (See Bernert, George, assignor.) (Reissue.)
Bernhard, Richard, assignor to The Traylor Engineering & Mf'g Co., Allentown, Pa. Gyratory crusher. No. 1,336,015; Apr. 6; v. 273; p. 59.

Bernsteen, A. E., *et al.* (See Shapiro, Herman, assignor.)
Berridge, Mason G., Dryden, Mich. Snowplow. No. 1,336,016; Apr. 6; v. 273; p. 59.
Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Pressing apparatus. No. 1,336,341; Apr. 6; v. 273; p. 120.
Berry, Herbert H., London, England. Imitation fire. No. 1,336,500; Apr. 13; v. 273; p. 209.
Berry, Louis P., Jr., Marion, Ark. Apparatus for sewage disposal. No. 1,337,431; Apr. 20; v. 273; p. 461.
Berntson, Bernhard M., Chicago, Ill. Flue-scraper. No. 1,336,673; Apr. 13; v. 273; p. 243.
Best Electric Company. (See Kenney, John J., assignor.)
Bibby, James, and J. O. Boving, assignors to Electro-Metals Limited, London, England. Electric blast-furnace. No. 1,336,017; Apr. 6; v. 273; p. 59.
Biebinger, David A. (See Davis, F. E., and Biebinger.)
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,337,973; Apr. 20; v. 273; p. 565.
Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
Billing, Charles, London, England. Disinfectant, antiseptic, deodorant, or detergent. No. 1,336,272; Apr. 6; v. 273; p. 107.
Billon, Frédéric. (See Schneider, J., and Billon.)
Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Co., Cincinnati, Ohio. Bosom-press. No. 1,336,415; Apr. 13; v. 273; p. 194.
Bird, Charles E., Minneapolis, Minn. Scale-lever. No. 1,337,635; Apr. 20; v. 273; p. 500.
Bird, Charles S., Walpole, Mass. Wad for shot shells or cartridges. No. 1,337,993; Apr. 27; v. 273; p. 638.
Bird Machine Company. (See Clarke, Ralph S., assignor.)
Birdzell, John W., Arkansas City, Kans. Internal-combustion rotary engine. No. 1,338,207; Apr. 27; v. 273; p. 679.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Motor-starting switch. No. 1,336,064; Apr. 6; v. 273; p. 68.
Bituminized Road Company. (See Popkess, Michael A., assignor.)
Bivins, Frederick C. (See Ashe, W. B., and Bivins.)
Biwoln, Stanley, White Lake, Wis. Baby-carriage. No. 1,336,725; Apr. 13; v. 273; p. 253.
Biwoln, Stanley, White Lake, Wis. Bread-slicing machine. No. 1,336,726; Apr. 13; v. 273; p. 254.
Black, David C., Newcastle-upon-Tyne, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, England. Ship-propulsion installation. No. 1,336,018; Apr. 6; v. 273; p. 60.
Black, David C., Allon, Scotland, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, England. Ship-propulsion installation. No. 1,336,019; Apr. 6; v. 273; p. 60.
Black, David C., Allon, Scotland, assignor to The Parsons Marine Steam Turbine Company, Limited, Wallsend, Northumberland, England. Ship-propulsion installation. No. 1,336,020; Apr. 6; v. 273; p. 60.
Blackstone Manufacturing Company. (See More, Glenn, assignor.)
Blackwell, Willis B. and W. J., New York, N. Y. Display-support. No. 1,337,816; Apr. 20; v. 273; p. 534.
Blackwell, Willis J. (See Blackwell, Willis B. and W. J.)
Blakeslee, Alice M., Philadelphia, Pa. Fabric stripping or cutting machine. No. 1,338,551; Apr. 27; v. 273; p. 743.
Blanchard, Harry E., Hudson, Mass., assignor to Lapointe Machine Tool Company, Spiral broaching-machine. No. 1,335,871; Apr. 6; v. 273; p. 31.
Blanckensee, Sidney P., Birmingham, England. Cutting or sawing machinery. No. 1,336,501; Apr. 13; v. 273; p. 209.
Blankfield, George, assignor of one-sixth to A. E. Reid, one-sixth to I. Kuper, and one-sixth to P. C. Gordon, Benoni, Transvaal, South Africa. Means for packing and lubricating the pistons of internal-combustion and other engines. No. 1,336,342; Apr. 6; v. 273; p. 120.
Blankinship, Clark J., and W. M. Ellis, Patoka, Ill. Piston-rod journal-bearing. No. 1,338,351; Apr. 27; v. 273; p. 706.
Blanton, Robert H., and H. L. Hooper, Selma, Ala. Demountable rim for motor-truck wheels. No. 1,338,208; Apr. 27; v. 273; p. 679.
Blevins, Wade H., *et al.* (See Super, Frank J., assignor.)
Bliss, Sarah M., Albuquerque, N. Mex. Upholsterer's tack. No. 1,336,273; Apr. 6; v. 273; p. 107.
Block, Henry C., *et al.* (See Gardner, William E., assignor.)
Blocker, Leck H., Nash, Tex. Mail carrier or container. No. 1,338,066; Apr. 27; v. 273; p. 652.
Bloemker, Henry W., assignor to J. Hancock, Philadelphia, Pa. Wire-fabric machine. No. 1,337,504; Apr. 20; v. 273; p. 476.
Bloom, James. (See Johnson, R. W., and Bloom.)
Bloom, Jacob E., Brooklyn, N. Y. Electrical process and apparatus for compounding liquids with gases or other components and the products thereof, including carbonating beverages. No. 1,338,352; Apr. 27; v. 273; p. 706.
Bloom, Jacob E., Brooklyn, N. Y. Electrical process and apparatus for the dyeing of furs and other materials and the products resulting therefrom. No. 1,338,353; Apr. 27; v. 273; p. 707.
Bloomquist, Charles O., Salt Lake City, Utah. Window-stop. No. 1,336,274; Apr. 6; v. 273; p. 107.
Blount, Almer L. (See Gore, Jacob L., assignor.)
Blue, John C., Brooklyn, N. Y. Envelop construction. No. 1,335,814; Apr. 6; v. 273; p. 21.
Blum, Elias, assignor of one-half to C. M. Markstedt, Oakland, Calif. Wrench. No. 1,338,278; Apr. 27; v. 273; p. 692.
Blumenberg, Frieda. (See Blumenberg, Henry, Jr., assignor.)
Blumenberg, Henry, Los Angeles, Calif. Destroying scale and the like on citrus trees. No. 1,337,538; Apr. 20; v. 273; p. 482.
Blumenberg, Henry, Jr., Los Angeles, Calif., assignor to F. Blumenberg, New York, N. Y. Composition of matter and making same. No. 1,338,279; Apr. 27; v. 273; p. 692.
Blystone Manufacturing Company. (See Pees, Walter J., assignor.)
Boardman, Harriet A., *et al.*, administratrices. (See Boardman, Solomon.)
Boardman, Solomon, deceased, Binghamton; H. A. Boardman and M. P. Ives, administratrices, Binghamton, N. Y., assignors to M. A. P. Ives. Electric motor. No. 1,337,686; Apr. 20; v. 273; p. 510.
Boas, Oliver E., Fort Smith, Ark. Spring-motor. No. 1,337,385; Apr. 20; v. 273; p. 453.
Boccacini, Blaise, New York, N. Y. Safety-catch for brooches. No. 1,338,280; Apr. 27; v. 273; p. 692.
Boch, Louise H., New York, N. Y. Window-shade mounting. No. 1,338,168; Apr. 27; v. 273; p. 671.
Bodé, Robert R., Honolulu, Hawaii. Hinge for artificial legs. No. 1,337,817; Apr. 20; v. 273; p. 535.
Boe, Hans M., Minneapolis, Minn. Oil-reservoir. No. 1,336,983; Apr. 13; v. 273; p. 302.
Bogda, Frank H., Horicon, Wis. Stock-watering bowl. No. 1,337,636; Apr. 20; v. 273; p. 500.
Bohli, Jacques, Obach, Solothurn, assignor to Firm Scintilla, Solothurn, Switzerland. High-voltage-current-distributing apparatus for electric ignition apparatus of internal-combustion engines. No. 1,335,933; Apr. 6; v. 273; p. 43.
Bohre, Anton C., deceased, Christiania; K. C. Bohre, executrix, Bergen, Norway. Concentrating nitric and sulfuric acid. No. 1,338,418; Apr. 27; v. 273; p. 718.
Bohre, Katharina C., executrix. (See Bohre, Anton.)
Boixeda, Daniel, Barcelona, Spain. Moving-picture apparatus. No. 1,336,996; Apr. 13; v. 273; p. 305.
Bolfing, Arthur J., San Francisco, Calif. Rotary engine. No. 1,336,997; Apr. 13; v. 273; p. 305.
Bolus, Glenn H. (See Brown, J. R., and Bolus.)
Bond, Edmund M., Detroit, Mich. Starter for internal-combustion engines. No. 1,337,113; Apr. 13; v. 273; p. 328.
Boode, Axel. (See Nelson, N. S., and Boode.)
Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing or decreasing objectionable odors from treated oils. No. 1,337,339; Apr. 20; v. 273; p. 445.
Borchers, George W., San Jose, Calif. Supplementary jaws for vises. No. 1,336,610; Apr. 13; v. 273; p. 231.
Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Regulator for electric generators. No. 1,336,416; Apr. 13; v. 273; p. 194.
Boryk, John, Ansonia, Conn. Safe-lock. No. 1,337,386; Apr. 20; v. 273; p. 453.
Bosch Aktiengesellschaft, Firm of Robert. (See Woerner, Eugen, assignor.)
Bossert, Charles T. (See Bossert, F. J. and C. T.)
Bossert, Fred J. and C. T., Selma, Calif. Vine-cutter. No. 1,338,281; Apr. 27; v. 273; p. 692.
Bosshard, Theodore, Brooklyn, N. Y. Confection-making apparatus. No. 1,338,354; Apr. 27; v. 273; p. 707.
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Boston Woven Hose & Rubber Co. (See McGeouch, W. P., and Beckwith, assignors.)
Bott, George R., New York, N. Y., assignor to The Norma Company of America. Joint for artificial limbs. No. 1,336,812; Apr. 13; v. 273; p. 270.
Bott, George R., New York, N. Y., assignor to The Norma Company of America. Bearing and mounting therefor. No. 1,337,881; Apr. 20; v. 273; p. 547.
Bott, George R., New York, N. Y., assignor to The Norma Company of America. Bearing and mounting therefor. No. 1,337,882; Apr. 20; v. 273; p. 548.
Bottle, Edward K., Elmira, assignor to W. A. Cooke, Brooklyn, N. Y. Puncturing device for files, binders, or the like. No. 1,336,998; Apr. 13; v. 273; p. 305.
Bouillit, Firmin A. (See Viard, E. L., and Bouillit.)
Bouillon, Constant, Torrington, Conn., assignor to Hendey Machine Company. Tool-cabinet. No. 1,337,387; Apr. 20; v. 273; p. 453.
Boulton, William W. (See McClure, R. A., and Boulton.)
Bour, Charles W., South Bend, Ind. Trap-nest. No. 1,336,191; Apr. 6; v. 273; p. 92.
Bourdeau, Leon N., Rock Island, Ill., assignor of one-half to J. G. Sorenson, Davenport, Iowa. Grease-cup. No. 1,337,432; Apr. 20; v. 273; p. 462.
Bourk, Louis P. H., Nicolet, Quebec, Canada. Casket. No. 1,335,722; Apr. 6; v. 273; p. 4.
Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,502; Apr. 13; v. 273; p. 210.

Boving, Jens O. (See Bibby, J., and Boving.)
Bowers, Nicholas M., West McHenry, Ill. Hay-loader. No. 1,336,065; Apr. 6; v. 273; p. 68.
Bowman, Emil F., Marshalltown, Iowa. Drinking-fountain. No. 1,337,637; Apr. 20; v. 273; p. 500.
Bowmer, John B., Plummer, Idaho. Brake-block. No. 1,336,882; Apr. 13; v. 273; p. 283.
Boyce, Stanley. (See Brock, R. E., and Boyce.)
Boyd, Uintah R., San Francisco, Calif. Lady's undergarment. No. 1,337,883; Apr. 20; v. 273; p. 548.
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Boyer, Edith E. L. and F. G. L., Dayton, Ohio. Value printing and indicating device for scales. No. 1,338,282; Apr. 27; v. 273; p. 693.
Boyer, Edward J., Aurora, Kans. Book-holder. No. 1,336,275; Apr. 6; v. 273; p. 108.
Boyer, Frederick G. L. (See Boyer, Edith E. L. and F. G. L.)
Boyle, Bernard J. (See Royer, E. C., and Boyle.)
Brackenbury, Edward W., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixer. No. 1,335,934; Apr. 6; v. 273; p. 43.
Bracy, Edward L., Baltimore, Md. Packing-paper-cup-making machine. No. 1,338,552; Apr. 27; v. 273; p. 743.
Bradbury, Clifford C., Chicago, Ill. Electromagnetic fuel-pump and circuit therefor. No. 1,337,388; Apr. 20; v. 273; p. 454.
Bradbury, Herbert W. (See Groves, C. D., Jarvis, and Bradbury.)
Braden, Robert D., and C. W. Grant, assignors to Oxweld Acetylene Company, Chicago, Ill. Acetylene-generator. No. 1,336,813; Apr. 13; v. 273; p. 270.
Bradley, Charles F., New York, N. Y. Automatic lock device for doors. No. 1,337,638; Apr. 20; v. 273; p. 501.
Bradley, John H., Philadelphia, Pa. Metallic bed. No. 1,337,340; Apr. 20; v. 273; p. 445.
Bradley, Richard, Swansea, Ariz. Hat. No. 1,338,283; Apr. 27; v. 273; p. 693.
Bradley, Walter M., New Haven, Conn. Bowling-alley. No. 1,338,284; Apr. 27; v. 273; p. 693.
Bradner, B. J., *et al.* (See Nesmith, Ralph A., assignor.)
Bradshaw, Reginald H., London, England. Rimless spectacles and eyeglasses. No. 1,337,818; Apr. 20; v. 273; p. 535.
Bradshaw, William M., and W. G. Mylius, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,336,611; Apr. 13; v. 273; p. 231.
Bragg, Charles T., Detroit, Mich., assignor to M. Baer and A. Baer, New York, N. Y. Preparing varnish. No. 1,337,749; Apr. 20; v. 273; p. 522.
Braun, William P., Brooklyn, N. Y. Brush. No. 1,337,819; Apr. 20; v. 273; p. 535.
Braun, William P. M., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mower structure. No. 1,338,285; Apr. 27; v. 273; p. 693.
Braunschweig, Georges, Chaux-de-Fonds, Switzerland. Clockwork. No. 1,338,609; Apr. 27; v. 273; p. 753.
Brawn, Charles A., Philadelphia, Pa. Loading device. No. 1,336,674; Apr. 13; v. 273; p. 243.
Brazill, Patrick V., Paquette Station, Ontario, Canada. Rural mail-box. No. 1,336,417; Apr. 13; v. 273; p. 195.
Breckenridge, George M., assignor of one-half to J. P. McManus, Chicago, Ill. Printing mechanism. No. 1,336,988; Apr. 13; v. 273; p. 303.
Brett Process Screen Company. (See Corbett, Harry A., assignor.)
Brewer, Charles A., Noroton Heights, Conn., assignor to Adjuria Incorporated. First-aid kit. No. 1,337,433; Apr. 20; v. 273; p. 462.
Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)
Brewster, Arthur M. (See Allis, Dexter W., assignor.)
Brewster, William A., Redlands, Calif. Heating device. No. 1,337,038; Apr. 13; v. 273; p. 314.
Bridges, Bertha A., Leesville, S. C. Clothespin. No. 1,337,434; Apr. 20; v. 273; p. 462.
Briechle, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,335,815; Apr. 6; v. 273; p. 21.
Briechle, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Accounting-machine. No. 1,336,192; Apr. 6; v. 273; p. 92.
Briggs, Benjamin F. (See Allen, James A., assignor.)
Briggs, John C., Cumberland, England, assignor to Aero & General Pump Manufacturing Company, Limited. Pump. No. 1,338,118; Apr. 27; v. 273; p. 662.
Briggs, Robert M., Pittsfield, Mass., assignor to General Electric Company. Method and apparatus for applying shellac and the like to sheet materials. (Reissue.) No. 14,833; Apr. 6; v. 273; p. 132.
Briggs, Stephen F., and E. N. Jacobi, assignor to Briggs & Stratton Company, Milwaukee, Wis. Pedal-switch. No. 1,336,066; Apr. 6; v. 273; p. 68.
Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)
Brightwell, Dallas, Frankfort, Ky. Creeper. No. 1,336,276; Apr. 6; v. 273; p. 108.
Briner, Frank, Chester, Pa., assignor to Penn Seaboard Steel Corporation, Philadelphia, Pa. Stockless anchor. No. 1,335,816; Apr. 6; v. 273; p. 21.
Brink, Harry L., assignor to American Hoist & Derrick Co., St. Paul, Minn. Sheave-block. No. 1,337,341; Apr. 20; v. 273; p. 445.
Brinton, Geo. H., *et al.*, executors. (See Brinton, William F.)
Brinton, Ina, *et al.*, executors. (See Brinton, William F.)
Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Electrical condenser. No. 1,337,505; Apr. 20; v. 273; p. 476.
Brinton, William F., deceased, Washington, Iowa; I. Brinton, G. H. Brinton, and C. M. Keck, executors. Rewinding means for motion-pictures. No. 1,335,817; Apr. 6; v. 273; p. 21.
Brock, Richard E., and S. Boyce, Canton, Ohio. Heat-treating furnace. No. 1,336,814; Apr. 13; v. 273; p. 270.
Broderson, Henry J., and S. W. Parr, Urbana, Ill. Treating broom-corn. No. 1,337,306; Apr. 20; v. 273; p. 439.
Brody, David. (See Perez, Frank M., assignor.)
Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-controlling mechanism. No. 1,336,418; Apr. 13; v. 273; p. 195.
Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Electrical-measuring-instrument switch. No. 1,336,419; Apr. 13; v. 273, p. 195.
Bronaugh, J. W., *et al.* (See Carroll, Andrew L., assignor.)
Bronner, Charles F., Syracuse, N. Y. Clothes-wringer. No. 1,336,883; Apr. 13; v. 273; p. 284.
Brookes, Edward E., assignor to W. J. Gage & Company Limited, Toronto, Ontario, Canada. Window-envelop machine. No. 1,338,119; Apr. 27; v. 273; p. 662.
Brooks, David C., Van, W. Va. Wrapping-paper holder and cutter. No. 1,337,588; Apr. 20; v. 273; p. 491.
Brossman, Charles A. (See Deem, Arthur S., assignor.)
Brown, Edmund N., San Francisco, Calif. Electric heater. No. 1,336,021; Apr. 6; v. 273; p. 60.
Brown Engineering Company. (See Brown, William E., assignor.)
Brown, Fred, Hamilton, Ill. Trace-hook. No. 1,338,610; Apr. 27; v. 273; p. 753.
Brown, Harry E., Wichita, Kans. Underreamer. No. 1,336,884; Apr. 13; v. 273; p. 284.
Brown, Harvey E., St. Louis, Mo., assignor to Simmons Company, Kenosha, Wis. Fabric-making machine. No. 1,336,343; Apr. 6; v. 273; p. 120.
Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Curve pull-off hanger. No. 1,336,504; Apr. 13; v. 273; p. 210.
Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,940; Apr. 13; v. 273; p. 295.
Brown, John R., and G. H. Bolus, assignors to The Ohio Brass Company, Mansfield, Ohio. Catenary suspension system for electric railways. No. 1,336,503; Apr. 13; v. 273; p. 210.
Brown, Robert, Toledo, Ohio. Muffler. No. 1,335,872; Apr. 6; v. 273; p. 31.
Brown, Robert E., Olean, N. Y. Safety-razor. No. 1,337,435; Apr. 20; v. 273; p. 462.
Brown & Sharpe Manufacturing Company. (See Spence, Lewis D., assignor.)
Brown, Warren A., Hempstead, N. Y. Electrically-heated draft device. No. 1,338,611; Apr. 27; v. 273; p. 753.
Brown, William E., assignor to Brown Engineering Company, Detroit, Mich. Reversing valve-gear. No. 1,336,344; Apr. 6; v. 273; p. 121.
Brownlee, John V., Philadelphia, Pa. Demountable tire-rim. No. 1,338,067; Apr. 27; v. 273; p. 652.
Bruber, Victor G., Rucker, Minn. Gate-latch. No. 1,338,209; Apr. 27; v. 273; p. 679.
Bruce, Gaston D., Middlesboro, Ky. Curtain-pole and shade-supporting bracket. No. 1,335,954; Apr. 6; v. 273; p. 47.
Bruder, George H., Boston, Mass. Hairpin. No. 1,337,039; Apr. 13; v. 273; p. 314.
Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Blank-forming machine. No. 1,338,120; Apr. 27; v. 273; p. 662.
Brush, Alanson P., Detroit, Mich. Engine-piston. No. 1,338,169; Apr. 27; v. 273; p. 671.
Bryan, Edgar J., assignor of one-half to F. Stebler, Riverside, Calif. Fastener. No. 1,336,193; Apr. 6; v. 273; p. 93.
Bryne, James L., Boston, Mass. Floating wooden dry-dock. No. 1,336,941; Apr. 13; v. 273; p. 295.
Bubb, Charles L., Williamsport, Pa. Automatic oiler. No. 1,337,687; Apr. 20; v. 273; p. 510.
Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top. No. 1,336,022; Apr. 6; v. 273; p. 60.
Buch, Royer S., York, Pa. Molder's flask. No. 1,335,818; Apr. 6; v. 273; p. 22.
Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Depositing hydrate of alumina and similar gelatinous precipitates from their salts. No. 1,337,191; Apr. 20; v. 273; p. 417.
Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of metal hydroxids. No. 1,337,192; Apr. 20; v. 273; p. 417.

Buckey, Thomas W., *et al.* (See Simmons, James L., assignor.)
Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buckley, James W., Weatherford, Tex. Truss. No. 1,337,994; Apr. 27; v. 273; p. 638.
Buckley, John J., assignor of one-third to W. T. Davidson, Boston, and two-thirds to C. A. Schmitz, West Medford, Mass. Signaling apparatus. No. 1,338,210; Apr. 27; v. 273; p. 679.
Buckley, William J., East Orange, assignor to Davis-Bournonville Company, Jersey City, N. J. Welding apparatus. No. 1,335,873; Apr. 6; v. 273; p. 31.
Bucklin, Charles S., Red Bank, N. J., assignor to Sprague Canning Machinery Company, Chicago, Ill. Hand-packfilling machine. No. 1,335,819; Apr. 6; v. 273; p. 22.
Budd Wheel Corporation. (See Ibach, Emil, assignor.)
Buggeln, Harry K., Corona, N. Y. Door-fastener. No. 1,336,505; Apr. 13; v. 273; p. 210.
Bukacek, Joseph M., Clarkson, Nebr. Machine-oiler. No. 1,337,688; Apr. 20; v. 273; p. 510.
Bull, Fredrik R., Christiania, Norway. Saving-clock. No. 1,337,539; Apr. 20; v. 273; p. 482.
Bulley, Louis T., assignor to C. Cowles & Company, New Haven, Conn. Controlling mechanism for window-regulators. No. 1,338,485; Apr. 27; v. 273; p. 731.
Buluckian, Hachig M., Cleveland, Ohio. Hardening aluminum. No. 1,336,420; Apr. 13; v. 273; p. 195.
Bunting Brass & Bronze Company, The. (See Donaldson, Augustus F., assignor.)
Burbank, Joseph W., Albany, N. Y. Spraying attachment. No. 1,337,589; Apr. 20; v. 273; p. 492.
Burch, Edwin, Baltimore, Md. Fender. No. 1,336,277; Apr. 6; v. 273; p. 108.
Burch, Maston A., Cass, Ind. Bearing-scraper. No. 1,336,885; Apr. 13; v. 273; p. 284.
Burdick, Orlo D., Hartford, Conn. Dishpan-support. No. 1,338,486; Apr. 27; v. 273; p. 731.
Burger, Joseph, Brooklyn, N. Y. Heel. No. 1,336,194; Apr. 6; v. 273; p. 93.
Burger, Joseph, Brooklyn, N. Y. Heel. No. 1,337,639; Apr. 20; v. 273; p. 501.
Burgess Battery Company. (See Burgess, Charles F., assignor.)
Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Battery hand-lamp. No. 1,336,067; Apr. 6; v. 273; p. 68.
Burke, Harry C. (See Trew, James S., assignor.)
Burke, John W., Hamilton, Ontario, Canada. Cultivator. No. 1,336,421; Apr. 13; v. 273; p. 195.
Burlingame, Albert C., Minneapolis, Minn. Fruit-jar and bottle lifter. No. 1,337,540; Apr. 20; v. 273; p. 483.
Burman, Frank V., Marine City, Mich. Drying apparatus. No. 1,336,422; Apr. 13; v. 273; p. 195.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch or circuit-breaker. No. 1,337,995; Apr. 27; v. 273; p. 638.
Burns, William C., Albany, Oreg. Instep-support. No. 1,336,278; Apr. 6; v. 273; p. 108.
Burnwatt, William W., and G. W. Hauschild, Los Angeles, Calif. Garden-hose holder. No. 1,337,541; Apr. 20; v. 273; p. 483.
Burton, Charles S., Oak Park, Ill. Rebound-check for vehicles. No. 1,337,996; Apr. 27; v. 273; p. 638.
Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Leaf-sight for firearms. No. 1,338,121; Apr. 27; v. 273; p. 662.
Buschardt, William F., Baltimore, Md. Plant-supporting clip. No. 1,338,612; Apr. 27; v. 273; p. 754.
Bush, Alden J., Columbus, Ohio. Dental chart. No. 1,338,068; Apr. 27; v. 273; p. 652.
Buskard, Samuel G., Hamilton, Ontario, assignor, by mesne assignments, of one-half to R. E. T. Pringle Limited, Toronto, Canada. Universal grinding-machine. No. 1,338,355; Apr. 27; v. 273; p. 707.
Butcher, James H., Louisville, Ky. Amusement apparatus. No. 1,337,820; Apr. 20; v. 273; p. 535.
Buth, Archie C., Alleman, Iowa. Self-feeder. No. 1,337,436; Apr. 20; v. 273; p. 462.
Butler, James L. (See Converse, F. B., and Butler.)
Butler, William M., Syracuse, N. Y. Furnace. No. 1,336,675; Apr. 13; v. 273; p. 243.
Byron Jackson Iron Works. (See Schorr, Robert, assignor.)
Cable Company, The. (See Swensen, Alfred, assignor.)
Cady, Sherman W., Auburn, N. Y., assignor to International Harvester Company. Tandem disk harrow. No. 1,336,676; Apr. 13; v. 273; p. 244.
Cain, John J., Bayonne, N. J. Header for tubular boilers. No. 1,337,590; Apr. 20; v. 273; p. 492.
Cain, John J., Bayonne, N. J. Making flanged articles. No. 1,338,419; Apr. 27; v. 273; p. 718.
Cairns, Hugh S., Yenangyaung, Upper Burma, India. Fishing-tool for use in well-boring. No. 1,336,815; Apr. 13; v. 273; p. 270.
Caldwell, Alfred R., Pasadena, Calif. Dressing for leather and leather substitutes and making same. No. 1,338,286; Apr. 27; v. 273; p. 693.
Caldwell, George B., Ottawa, Ontario, Canada. Combination hand-tool. No. 1,338,420; Apr. 27; v. 273; p. 718.
Caldwell, John W., Lebanon, N. H. Screw. No. 1,336,773; Apr. 13; v. 273; p. 262.
California Alkali Company. (See McIlhiney, Parker C., assignor.)
Calkins, Elizabeth, St. Joseph, Mo. Vest. No. 1,336,279; Apr. 6; v. 273; p. 108.
Call, Henry L., St. Louis, Mo. Vehicle. No. 1,337,437; Apr. 20; v. 273; p. 463.
Callahan, Robert L., Louisville, Ky. Bag-filling machine. No. 1,336,612; Apr. 13; v. 273; p. 231.
Callender, Wallace V., Chicago, Ill. Method and apparatus for retinning ice-cream cans. No. 1,336,886; Apr. 13; v. 273; p. 284.
Calvelage, Stephen G., Jamestown, N. D. Storm and screen window hanger. No. 1,337,689; Apr. 20; v. 273; p. 511.
Calvert, John A., Carberry, Manitoba, Canada. Binder. No. 1,337,193; Apr. 20; v. 273; p. 417.
Cameron, William, assignor to Torris Weld & Company, Chicago, Ill. Automatic die-press. No. 1,337,307; Apr. 20; v. 273; p. 439.
Cameron, William J., Chicago, Ill. Adapter. No. 1,335,935; Apr. 6; v. 273; p. 44.
Campbell, Harry E., assignor to Union Electric Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,335,936; Apr. 6; v. 273; p. 44.
Campbell, Le Roy W., Grand Rapids, Mich. Tunneling-machine. No. 1,335,723; Apr. 6; v. 273; p. 4.
Canada, Somers T., Atlanta, Ga. Radiator. No. 1,336,816; Apr. 13; v. 273; p. 271.
Canda, Ferdinand E., New York, N. Y. Rolling balls and other objects of rotation. No. 1,337,640; Apr. 20; v. 273; p. 501.
Canda, Ferdinand E., New York, N. Y. Ball-mill. No. 1,337,641; Apr. 20; v. 273; p. 501.
Candee, L., & Co. (See Joseph, Frank A., assignor.)
Candee, L., & Company. (See Stuart, Charles J., assignor.)
Cannon, Harley, C. Barbre, and E. H. Leslie, assignors to General Petroleum Corporation, Los Angeles, Calif. Producing an ore-flotation agent. No. 1,337,542; Apr. 20; v. 273; p. 483.
Cannon, Louis S., Rosemary, N. C. Safety stop-motion for Jacquard looms. No. 1,336,677; Apr. 13; v. 273; p. 244.
Cannon, Patrick, New York, N. Y. Rim-holding stand. No. 1,337,821; Apr. 20; v. 273; p. 535.
Cantelo, John S., Boston, Mass. Caster. No. 1,338,356; Apr. 27; v. 273; p. 707.
Capewell, George J., Hartford, Conn. Horseshoe. No. 1,337,194; Apr. 20; v. 273; p. 417.
Caracristi, Virginius Z., Bronxville, assignor to Locomotive Pulverized Fuel Company, New York, N. Y. Means for feeding fuel to combustion-chambers. No. 1,336,125; Apr. 6; v. 273; p. 80.
Carborundum Company, The. (See Linbarger, Silas C., assignor.)
Carden, David A., Houston, Tex., assignor, by mesne assignments, to Interstate Oil and Equipment Corporation. Pump. No. 1,337,180; Apr. 13; v. 273; p. 340.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,337,040; Apr. 13; v. 273; p. 314.
Carlisle, Bert, Santa Ana, Calif. Aeroplane. No. 1,336,678; Apr. 13; v. 273; p. 244.
Carlsen, Albert C., Pocatello, Idaho. Chain-tightener. No. 1,336,679; Apr. 13; v. 273; p. 244.
Carlson, Andrew H., assignor to Prestcel Mfg. Company, Bridgeport, Conn. Adjustable holder. No. 1,335,724; Apr. 6; v. 273; p. 4.
Carlson, Carl K., Everett, Wash. Box or case truck. No. 1,337,438; Apr. 20; v. 273; p. 463.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Can-opener. No. 1,336,126; Apr. 6; v. 273; p. 80.
Carlson, Oscar B., Avesta, assignor to Aktiebolaget Carlit, Stockholm, Sweden. Manufacturing ammonium perchlorates. No. 1,338,357; Apr. 27; v. 273; p. 707.
Carlson, Oscar F. S., Ljungaverk, assignor to Aktiebolaget Nitrogenium, Stockholm, Sweden. Manufacturing nitrogen compounds from carbids. No. 1,337,750; Apr. 20; v. 273; p. 523.
Carlon, William C., Stockton, Calif. Battery-indicator. No. 1,338,170; Apr. 27; v. 273; p. 671.
Carlstedt, Ragnar, Stockholm, Sweden. Shaft-coupling. No. 1,338,122; Apr. 27; v. 273; p. 663.
Carolina Motor Company. (See Sills, Frederick R., assignor.)
Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Terminal means for battery-plates. No. 1,336,127; Apr. 6; v. 273; p. 80.
Carpenter, Campbell C., and R. J. Ellis, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-cell and vent means therefor. No. 1,336,506; Apr. 13; v. 273; p. 211.
Carpenter, Campbell C., and R. J. Ellis, assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-jar and cover. No. 1,336,507; Apr. 13; v. 273; p. 211.
Carpenter, Frank G., Sioux City, Iowa. Hog-beater shaft attachment. No. 1,336,887; Apr. 13; v. 273; p. 284.
Carr, Clyde M., Fort Scott, Kans. Railway-switch stand. No. 1,336,195; Apr. 6; v. 273; p. 93.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,115; Apr. 13; v. 273; p. 328.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,116; Apr. 13; v. 273; p. 328.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,117; Apr. 13; v. 273; p. 328.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,118; Apr. 13; v. 273; p. 328.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,337,119; Apr. 13; v. 273; p. 328.

Carr, George R. (See Gorton, A. C., and Carr.)

Carran, Edward, assignor of one-half to W. F. Walbach, Chicago, Ill. Tire. No. 1,336,817; Apr. 13; v. 273; p. 271.

Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Pressure-generating system. No. 1,337,751; Apr. 20; v. 273; p. 523.

Carrey Rotary Engine Company. (See Carrey, John O., assignor.)

Carroll, Andrew L., assignor of one-sixth of O. Rowlett, one-sixth to J. W. Chambers, and one-sixth to J. W. Bronaugh, St. Louis, Mo. Car-wheel. No. 1,336,128; Apr. 6; v. 273; p. 80.

Carroll, Louis W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,752; Apr. 20; v. 273; p. 523.

Carroll, Patrick, New York, N. Y. Automatic air-vent. No. 1,336,280; Apr. 6; v. 273; p. 108.

Carson, Clark, Davenport, Iowa. Radiating system for internal-combustion motors. No. 1,336,613; Apr. 13; v. 273; p. 232.

Carter, David S., assignor to Larned, Carter & Company, Detroit, Mich. Overalls-pocket. No. 1,336,614; Apr. 13; v. 273; p. 232.

Carter, Lee E., St. Maries, Idaho. Dry-kiln truck for emptying and refilling dry-kilns. No. 1,337,439; Apr. 20; v. 273; p. 463.

Cartter, William G. (See Arthur, E. D. and Cartter.)

Case, Francis M., Cleveland, Ohio. Teakettle. No. 1,338,353; Apr. 27; v. 273; p. 743.

Case, Henry M., Cincinnati, Ohio. Sterilizer. No. 1,338,069; Apr. 27; v. 273; p. 653.

Casey, Ralph R., Seattle, Wash. Food curing and smoking apparatus. No. 1,337,974; Apr. 20; v. 273; p. 566.

Cash, Arthur L. (See Short, C. R., and Cash.)

Casner, Thaddeus S., Plainfield, N. J. Supporting-leg for washtubs. No. 1,337,997; Apr. 27; v. 273; p. 639.

erly, Mass. Clip. No. 1,336,129; Apr. 6; v. 273; p. 81.

Cass, Charles W., Salem, and W. L. Baxter, Beverly, Mass. Clip. No. 1,336,129; Apr. 6; v. 273; p. 81.

Cassaday, Ormond F., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Toll trunk-circuit. No. 1,336,615; Apr. 13; v. 273; p. 232.

Cassidy, John J., Cleveland, Ohio. Toggle connection. No. 1,338,171; Apr. 27; v. 273; p. 672.

Cataldi, Beniamino, Turin, Italy. Process and apparatus for the electrolytic decomposition of chlorids. No. 1,336,281; Apr. 6; v. 273; p. 109.

Catterall, Albert B., Ottumwa, Iowa. Combined valve-cap and dust-cap. No. 1,336,023; Apr. 6; v. 273; p. 60.

Caul, Louis, Detroit, Mich. Carbonated-water-supply apparatus. No. 1,335,874; Apr. 6; v. 273; p. 32.

Cave, Frederick C., Des Moines, Iowa. Resilient tire. No. 1,335,820; Apr. 6; v. 273; p. 22.

Caywood, James A., assignor of one-fourth to E. N. Sebern and one-fourth to E. R. Mulvihill, Nederland, Colo. Beet-gathering machine. No. 1,336,024; Apr. 6; v. 273; p. 61.

Celluloid Company, The. (See Lindsay, William G., assignor.)

Central Specialty Company. (See Lonskey, John H., assignor.)

Ceska, Marie, Bowdle, S. D. Darner. No. 1,337,884; Apr. 20; v. 273; p. 548.

Cetta, Stephen F., Brooklyn, N. Y. Banjo. No. 1,337,041; Apr. 13; v. 273; p. 314.

Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Means for connecting hydrocarbon-burners to supply-pipes. No. 1,336,423; Apr. 13; v. 273; p. 196.

Chaillley, Georges A., Lyon St. Clair Caluire, France. Magneto with water-tight casing. No. 1,336,196; Apr. 6; v. 273; p. 93.

Challacombe, Robert H., San Francisco, Calif. Pulverizing apparatus. No. 1,338,421; Apr. 27; v. 273; p. 718.

Chamberlin, Clarence P., Birmingham, Mich. Windshield and hinge therefor. No. 1,338,487; Apr. 27; v. 273; p. 731.

Chambers, Jordan W., *et al.* (See Carroll, Andrew L., assignor.)

Champion Spark Plug Company. (See Rohde, Otto C., assignor.)

Champlin, Francis M., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Rate-of-ascent indicators for aeroplanes. No. 1,338,358; Apr. 27; v. 273; p. 707.

Chappell, Howard F., New York, N. Y. Utilization of native alunite. No. 1,336,508; Apr. 13; v. 273; p. 211.

Chappell, Thomas J., Casselton, N. D. License-tag holder. No. 1,338,422; Apr. 27; v. 273; p. 719.

Charbonnet, Joseph A., New Orleans, La. Bed-rail and lock. No. 1,336,282; Apr. 6; v. 273; p. 109.

Chase, Elroy A., assignor to Phillips & Slack, Inc., Northfield, Vt. Stone-profiling machine. No. 1,336,942; Apr. 13; v. 273; p. 295.

Chatham Die Casting Co. (See Hakanson, Alfred, assignor.)

Chemical Foundation, The. (See Buchner, Max, assignor.)

Chemical Foundation, The. (See Ellender, Walter L. E., assignor.)

Chemical Foundation, The. (See Gerber, Otto, assignor.)

Chemical Foundation, The. (See Moest, M., and Schirm, assignors.)

Chemical Foundation, The. (See Podszus, Emil, assignor.)

Chemical Foundation, The. (See Schmidt, Otto, assignor.)

Chemical Foundation, The. (See Stelnschneider, Leo., assignor.)

Chemical Foundation, The. (See Tschunke, Reinhold, assignor.)

Chemical Foundation, The. (See Viertel, Eduard, assignor.)

Chenault, George N., Forney, Tex. Chopping attachment. No. 1,336,727; Apr. 13; v. 273; p. 254.

Cheney, George M., and L. C. Harwood, assignors to Litchfield Shuttle Company, Southbridge, Mass. Thread-eye for shuttles. No. 1,337,389; Apr. 20; v. 273; p. 454.

Chesebro, Paris, Fairport, N. Y. Grain-door. No. 1,336,068; Apr. 6; v. 273; p. 69.

Cheston, Arthur S., Birmingham, England. Combined dovetail and buffer or cushioning device for the doors of motor-cars and other vehicles. No. 1,337,042; Apr. 13; v. 273; p. 314.

Chew, Ruth E., Brooklyn, N. Y. Waterproof hat-protector. No. 1,337,506; Apr. 20; v. 273; p. 476.

Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)

Chicago Machine & Motor Co. (See Pearson, Carl F., assignor.)

Chicago Railway Signal and Supply Company. (See Vogel, Eugene W., assignor.)

Chicago Standard Metallic Packing Company. (See Badeker, John, assignor.)

Child, Guy B., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Adjustable broiling-grid. No. 1,337,043; Apr. 13; v. 273; p. 314.

Chism, Louis W., Springfield, Mass., assignor to The Steel Products Company, Hartford, Conn. Transportation apparatus. No. 1,336,551; Apr. 13; v. 273; p. 220.

Christensen, James C. (See Johnston, F. H., and Christensen.)

Christensen, Niels A., Milwaukee, Wis. Starting mechanism for internal-combustion engines. No. 1,336,616; Apr. 13; v. 273; p. 232.

Christensen, Niels, Lima, Ohio. Ripener for mother-starter. No. 1,336,728; Apr. 13; v. 273; p. 254.

Christensen, Nels M., Fremont, Nebr. Device to seal freight-car doors. No. 1,336,888; Apr. 13; v. 273; p. 384.

Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,130; Apr. 6; v. 273; p. 81.

Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,131; Apr. 6; v. 273; p. 81.

Christie, Walter, Weehawken, N. J. Transmission-gearing. No. 1,336,132; Apr. 6; v. 273; p. 81.

Christie, Walter, Weehawken, N. J. Tractor. No. 1,336,133; Apr. 6; v. 273; p. 81.

Chromaster, Charles O., Milwaukee, Wis. Sanitary container. No. 1,337,195; Apr. 20; v. 273; p. 417.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,336,462; Apr. 13; v. 273; p. 202.

Church, Ralph, Shulls Mills, N. C. Fountain-brush. No. 1,337,998; Apr. 27; v. 273; p. 639.

Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical-arc welding. No. 1,335,875; Apr. 6; v. 273; p. 32.

Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Metallic-arc welding. No. 1,337,543; Apr. 20; v. 273; p. 483.

Cianovich, Mike, Maywood, Ill. Box-lid support. No. 1,337,999; Apr. 27; v. 273; p. 639.

Cilley, Osborn H., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Method of and apparatus for treating asbestos. No. 1,338,613; Apr. 27; v. 273; p. 754.

Cincinnati Ball Crank Company, The. (See Kaps, Richard A., assignor.)

Cincinnati Grinder Company, The. (See Kimmel, George C., assignor.)

City Machine and Tool Works. (See Nickol, F. C., and Knowles, assignors.)

Clampett, William H., London, Ontario, Canada. Bed-rest. No. 1,336,197; Apr. 6; v. 273; p. 93.

Clancy, John R. (See Williams, Mowry S., assignor.)

Clappison, John H., Detroit, Mich. Dispensing device for nut-meats. No. 1,337,440; Apr. 20; v. 273; p. 463.

Clark, Charles H., New York, N. Y. Shaft-coupling. No. 1,337,642; Apr. 20; v. 273; p. 501.

Clark, Charles T., Bay City, Mich., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Wood distillation. No. 1,337,342; Apr. 20; v. 273; p. 445.

Clark, Ernest G., De Kalb, Ill., assignor to The Q R S Music Company, Chicago, Ill. Hand stamping device. No. 1,337,591; Apr. 20; v. 273; p. 492.

Clark, Robert. (See Spencer, H. W., and Clark.)

Clarke, Charles F., Madison, Wis. Pen attachment. No. 1,337,196; Apr. 20; v. 273; p. 417.

Clarke, George B., Keremeos, British Columbia, Canada. Fencepost. No. 1,338,423; Apr. 27; v. 273; p. 719.

Clarke, Ralph S., Walpole, Mass., assignor to Bird Machine Company. Save-all. No. 1,338,211; Apr. 27; v. 273; p. 679.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,197; Apr. 20; v. 273; p 417.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,337,198; Apr. 20; v. 273; p. 418.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Supervisory system. No. 1,337,753; Apr. 20; v. 273; p. 523.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,754; Apr. 20; v. 273; p. 523.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,755; Apr. 20; v. 273; p. 565.

Clay, Wallace L., U. S. Army, and A. H. Hallowell, Frankford, Pa. Spot-light bullet. No. 1,337,343; Apr. 20; v. 273; p. 446.

Clayton, Henry R. H., and O. J. Rose, Hobart, Tasmania, Australia. Machine for breaking up toffee and other like materials. No. 1,335,937; Apr. 6; v. 273; p. 41.

Cleal, Joseph P. (See Gibbons, C., and Cleal.)

Cleary, William F. (See Lydecker, John G., assignor.)

Clemens, Samuel, Hennepin, Ill. Cultivator. No. 1,335,725; Apr. 6; v. 273; p. 4.

Clement, Edward E. (See Sibbald, William H., assignor.)

Clement, Louis E., Rock Island, Quebec, Canada. Cash-register. No. 1,337,441; Apr. 20; v. 273; p. 463.

Clemmer, Howard M. (See Kester, James A., assignor.)

Clenny, James E., New York, N. Y., and G. S. Wright, La Grange, assignor to Sefton Manufacturing Corporation, Chicago, Ill. Wrapper for packing electric-light bulbs. No. 1,337,592; Apr. 20; v. 273; p. 492.

Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Attachment for windows and the like. No. 1,338,488; Apr. 27; v. 277; p. 731.

Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)

Cleveland Tractor Company, The. (See Morgan, Mathew B., assignor.)

Cleveland Tractor Company, The. (See Morgan, M. B., Collins, and Kinney, assignors.)

Cleveland Tractor Company, The. (See White, Rollin H., assignor.)

Clifford, Roger W., and P. J. Nichols, Schenectady, N. Y. Throttle-valve. No. 1,338,489; Apr. 27; v. 273; p. 732.

Clifford, William P., Barnard, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding and tape-applying machine. No. 1,338,000; Apr. 27; v. 273; p. 639.

Clipfell, Carroll D., and G. Manikowske, Wyndmere, N. D. Swing. No. 1,335,938; Apr. 6; v. 273; p. 44.

Close, Leonard L., assignor to Marion Foundry Corporation, Marion, Ind. Grate-bar. No. 1,338,070; Apr. 27; v. 273; p. 653.

Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif. Table-top. No. 1,336,818; Apr. 13; v. 273; p. 371.

Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Co., Sunnyvale, Calif. Spring. No. 1,338,490; Apr. 27; v. 273; p. 732.

Cobb, Arthur, assignor of one-half to F. B. Houghton, Cleveland, Ohio. Bookbinding. No. 1,336,198; Apr. 6; v. 273; p. 93.

Coberly, William B. (See Vail, N. R., and Coberly.)

Cochran, Clyde E. (See Towson, M. S., and Cochran.)

Codos, Jacob, and B. May, New York, N. Y. Door-lock. No. 1,336,617; Apr. 13; v. 273; p. 232.

Coffeen, Lewis A. (See Nelson, C., and Coffeen.)

Coffield, James L., Dayton, Ohio. Means for draining the oscillating cylinders of washing-machines. No. 1,338,172; Apr. 27; v. 273; p. 672.

Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Radiator. No. 1,336,999; Apr. 13; v. 273; p. 305.

Cohen, Herbert, New York, N. Y. Apparatus for discharging static electricity from paper and the like. No. 1,338,071; Apr. 27; v. 273; p. 653.

Colner, B. W. (See Barnes, Charles W., assignor.)

Coker, James R., assignor to S. I. Coker, Knoxville, Tenn. Selective signaling and train-stop system. No. 1,336,889; Apr. 13; v. 273; p. 285.

Coker, S. I. (See Coker, James R., assignor.)

Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric singeing-furnace. No. 1,338,359; Apr. 27; v. 273; p. 707.

Cole, Arthur D., Minneapolis, Minn. Tractor. No. 1,336,890; Apr. 13; v. 273; p. 285.

Cole, Francis J., Schenectady, N. Y. Locomotive driving-box. No. 1,338,491; Apr. 27; v. 273; p. 732.

Coleman, Eugene, Oakland, Calif. Valve-testing device. No. 1,337,390; Apr. 20; v. 273; p. 454.

Coles, Wilfred G., assignor to Madison Kipp Corporation, Madison, Wis. Oil-cup. No. 1,338,554; Apr. 27; v. 273; p. 743.

Colley, Jacob, Pittsburgh, Pa. Combined saw setting and sharpening machine. No. 1,338,173; Apr. 27; v. 273; p. 672.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,336,509; Apr. 13; v. 273; p. 211.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,336,519; Apr. 13; v. 273; p. 211.

Collier-Keyworth Company. (See Collier, David R., assignor.)

Collins, William D. (See Morgan, M. B., Collins, and Kinney.)

Collis, Fred L., Iowa Falls, Iowa. Sweeper. No. 1,337,199; Apr. 20; v. 273; p. 418.

Colonnetti, Gustavo. (See Pozzo, A., and Colonnetti.)

Combs, Edgar S., Rochester, N. Y. Trolley. No. 1,336,199; Apr. 6; v. 273; p. 94.

Compagnie Generale D'Electricite. (See Dupuy, René J., assignor.)

Condit, Sears B., Jr. (See Burnham, George A., assignor.)

Coniglio, Carmelo, Port Arthur, Tex. Lawn-mower. No. 1,338,123; Apr. 27; v. 273; p. 663.

Conklin Pen Manufacturing Company, The. (See Luek, Charles A., assignor.)

Conkling, Cloud C., Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y. Metal sheet-piling section and wall. No. 1,338,287; Apr. 27; v. 273; p. 693.

Conlon Electric Washer Company. (See Wassell, Clifford R., assignor.)

Conly, Frederick Y. (See Matter, A. J., and Conly.)

Connecticut Electric Clock Co. (See Greenleaf, William H., assignor.)

Conrad, Frank, Pittsburgh, and J. S. Kinney, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Ignition system. No. 1,338,360; Apr. 27; v. 273; p. 708.

Conrad, Nicholas J., Chicago, Ill. Circuit-breaker. No. 1,336,069; Apr. 6; v. 273; p. 69.

Contento, Domenico, New York, N. Y. Eyeglasses. No. 1,338,174; Apr. 27; v. 273; p. 672.

Continental Tractor Company. (See Plettner, O. L., and Lowe, assignors.)

Converse, Francis B., and J. L. Butler, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Making adhesive-cord strips and winding mechanism therefor. No. 1,337,690; Apr. 20; v. 273; p. 511.

Cook, Charles M., Rochester, N. H. Grinder. No. 1,336,200; Apr. 6; v. 273; p. 94.

Cook, Daniel, Lyman, Utah. Mousetrap. No. 1,337,044; Apr. 13; v. 273; p. 315.

Cook, Ernest W., *et al.* (See Gothner, John, assignor.)

Cook, John C., New London, Conn. Holder for substances to be consumed by abrasion. No. 1,336,819; Apr. 13; v. 273; p. 271.

Cook, John H., Salt Lake City, Utah. Window-scaffold. No. 1,336,283; Apr. 6; v. 273; p. 109.

Cook, Truman B., and L. Foster, Astoria, Oreg. Resilient base. No. 1,338,555; Apr. 27; v. 273; p. 744.

Cook, William J., Charlotte, N. C. Air-valve for steam-radiators. No. 1,337,045; Apr. 13; v. 273; p. 315.

Cook, William P., and H. O. Baker, assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Engine-frame. No. 1,336,729; Apr. 13; v. 273; p. 254.

Cook, William T., Bowling Green, Ohio. Building-block. No. 1,336,025; Apr. 6; v. 273; p. 61.

Cooke, Arthur B., assignor to Staso Laminated Slate Company, Chicago, Ill. Method and apparatus for treating roofing-grit. No. 1,337,822; Apr. 20; v. 273; p. 536.

Cooke, William A. (See Bottle, Edward K., assignor.)

Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray transformer. No. 1,337,885; Apr. 20; v. 273; p. 548.

Coombs, Daniel L. F., Kansas City, Mo. Carbureter. No. 1,336,070; Apr. 6; v. 273; p. 69.

Cooney, John T., Providence, R. I. Shaving-brush. No. 1,338,424; Apr. 27; v. 273; p. 719.

Cooper, Angus B. (See Deever, Frederick P., assignor.)

Cooper, Arthur L., Los Angeles, Calif. Automatic draw-bar coupling for vehicles. No. 1,337,391; Apr. 20; v. 273; p. 454.

Cooper, Charles W. (See Morris, Pratt C., assignor.)

Cooper, John J., Stamford, Conn. Cabinet for an exercising apparatus. No. 1,336,774; Apr. 13; v. 273; p. 262.

Cooperman, Rachel, Chicago, Ill. Necktie-fastener. No. 1,336,618; Apr. 13; v. 273; p. 233.

Coover, Harry S., Philadelphia, Pa. Game apparatus. No. 1,337,691; Apr. 20; v. 273; p. 511.

Copeman Electric Stove Company. (See Copeman, Lloyd G., assignor.)

Copeman, Lloyd G., Flint, Mich., assignor to Copeman Electric Stove Company. Heating apparatus. No. 1,336,552; Apr. 13; v. 273; p. 220.

Copony, Alfred, assignor to Copony Auto-Loading Company, Detroit, Mich. Decking apparatus. No. 1,336,201; Apr. 6; v. 273; p. 94

Copony Auto-Loading Company. (See Copony, Alfred, assignor.)

Copper Products Company. (See Merritt, Matthew M., assignor.)

Corbett, Harry A., assignor to Brett Process Screen Company, Inc., New York, N. Y. Producing photographic screens for half-tone work. No. 1,338,492; Apr. 27; v. 273; p. 732.

Corbin, Walter F., Grand Rapids, Mich. Implement for kinking fire-hose. No. 1,336,891; Apr. 13; v. 273; p. 285.

Cordes, Frank, Pittsburgh, Pa. Bottom-pour ladle. No. 1,338,001; Apr. 27; v. 273; p. 640.

Cornelius, George T., Monessen, Pa. Dental toilet-case. No. 1,336,345; Apr. 6; v. 273; p. 121.

Cornelius, Logan, Hardy, Okla. Fencepost. No. 1,336,680; Apr. 13; v. 273; p. 245.

Cornell, Arthur M., Chicago, Ill. Guard-rail. No. 1,337,544; Apr. 20; v. 273; p. 483.

Corning Glass Works. (See Said, Jesse M., assignor.)

Corning, Henry W., Cleveland, Ohio. Locking mechanism. No. 1,337,545; Apr. 20; v. 273; p. 483.

Corsi, John, Detroit, Mich. Valve-lifter. No. 1,336,202; Apr. 6; v. 273; p. 94.

Costello, Thomas J., Warren, Ohio, assignor to George J. Hagan Company, Pittsburgh, Pa. Annealing-furnace. No. 1,336,681; Apr. 13; v. 273; p. 245.

Cotlard, Jean B., Paris, France. Condensing apparatus. No. 1,337,200; Apr. 20; v. 273; p. 418.

Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)

Cottrell, William, Riverside, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Air-blast pressure attachment for presses. No. 1,337,000; Apr. 13; v. 273; p. 306.

Coulson, William J., Houston, Tex. Plunger for deep-well pumps. No. 1,337,593; Apr. 20; v. 273; p. 492.

Coulter, Thomas H., Lytle, Tex. Stretching and securing wire. No. 1,338,425; Apr. 27; v. 273; p. 719.

Coupe, Lawrence W., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Shed-forming mechanism for looms. No. 1,335,876; Apr. 6; v. 273; p. 32.

Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,337,002; Apr. 13; v. 273; p. 306.

Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,337,003; Apr. 13; v. 273; p. 306.

Court, Georges T., Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Injection-syringe with protecting-hood. No. 1,336,730; Apr. 13; v. 273; p. 254.

Couve, Charles F., Aurora, Ill., assignor to Couve-Dunham Company. Manufacturing puppet-valves. No. 1,337,001; Apr. 13; v. 273; p. 306.

Couve-Dunham Company. (See Couve, Charles F., assignor.)

Cowan, Maurice H., Brooklyn, N. Y. Water-heater. No. 1,338,447; Apr. 27; v. 273; p. 723.

Cowles, C., & Company. (See Bulley, Louis T., assignor.)

Cowmatic Corporation. (See Lewis, John M. B., assignor.)

Cox Brass Manufacturing Company. (See Cox, William G., assignor.)

Cox, Frank J., San Francisco, Calif. Means for arresting particles of metal in lubricating-oil. No. 1,335,955; Apr. 6; v. 273; p. 48.

Cox, William G., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. No. 1,335,877; Apr. 6; v. 273; p. 32.

Coyle, James S., St. Louis, Mo. Ignition device. No. 1,337,046; Apr. 13; v. 273; p. 315.

Craft, Walter D. (See Vorhauer, George F., assignor.)

Crago, Arthur W., Detroit, Mich. Clam-digger. No. 1,336,203; Apr. 6; v. 273; p. 94.

Craig, Harry G., Washington Court House, Ohio. Rebound-controller. No. 1,338,556; Apr. 27; v. 273; p. 744.

Craig, Robert J., Orange, N. J. Shoe-cleaner. No. 1,336,284; Apr. 6; v. 273; p. 109.

Crane, Bert B., Rochester, N. Y. Bulkhead. No. 1,336,892; Apr. 13; v. 273; p. 286.

Crane, Henry H., Floral Park, assignor to Huber Mfg. Co., New York, N. Y. Lock. No. 1,335,821; Apr. 6; v. 273; p. 22.

Crane, Melville W., Moline, Ill. Combination geometrical instrument. No. 1,337,823; Apr. 20; v. 273; p. 536.

Crane, Raymond E. (See Lawrence, E. H., and Crane.)

Crane, Richard T., Jr., Chicago, Ill. Safety-spring for berths, &c. No. 1,336,943; Apr. 13; v. 273; p. 295; Cranford, Frederick L. (See Meen, James C., assignor.)

Cranston, William C., assignor of one-half to C. Nagel, Philadelphia, Pa. Tread attachment for tires. No. 1,338,175; Apr. 27; v. 273; p. 672.

Crawford, John J., New York, N. Y. Vehicle-spring shackle. No. 1,338,557; Apr. 27; v. 273; p. 744.

Crawford, Walter G., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,337,692; Apr. 20; v. 273; p. 511.

Cremean, William F., Wilkes-Barre, Pa. Railway-car. No. 1,336,134; Apr. 6; v. 273; p. 81.

Cress, Horatio G., Troy, Ohio. Game. No. 1,338,493; Apr. 27; v. 273; p. 732.

Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,336,619; Apr. 13; v. 273; p. 232.

Crimmion, John, *et al.* (See Wertz, T., and Springmeyer, assignors.)

Crist, William E., Baltimore, Md. Lubricator for journal-boxes. No. 1,337,201; Apr. 20; v. 273; p. 418.

Crist, William E., Baltimore, Md. Lubricator for journal-boxes. No. 1,337,202; Apr. 20; v. 273; p. 418.

Critchett, James C., El Paso, Tex. Hydrocarbon-burner. No. 1,336,285; Apr. 6; v. 273; p. 110.

Crompton & Knowles Loom Works. (See Jenekes, Lawrence B., assignor.)

Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)

Crompton & Knowles Loom Works. (See Wright, Charles S., assignor.)

Cromwell, John C., Cleveland, Ohio, and W. M. Mehlhorn, Pottsville, Pa. Open-hearth furnace. No. 1,338,288; Apr. 27; v. 273; p. 694.

Cronowert, Winfield S., Addle, Idaho. Posthole-digger. No. 1,335,878; Apr. 6; v. 273; p. 33.

Crook, Charles M., Chicago, Ill. Card-rack. No. 1,335,822; Apr. 6; v. 273; p. 22.

Crosbie, Robert G., Hawthorn, Victoria, Australia. Support for curtain-poles and the like. No. 1,337,594; Apr. 20; v. 273; p. 492.

Crosby, Edwin L., Highland Park, Mich. Electric furnace. No. 1,336,820; Apr. 13; v. 273; p. 271.

Crosby Steam Gage & Valve Company. (See Benecke, Adelbert O., assignor.)

Crossen, Edgar H., Franklin, Pa. Oil-engine. No. 1,338,289; Apr. 27; v. 273; p. 694.

Crothamel, Almon W., Ocean View, Va. Car-unloader. No. 1,337,047; Apr. 13; v. 273; p. 315.

Crouch, Walter L., and A. E. Rust, assignors to The E. Ingraham Company, Inc., Bristol, Conn. Dial-mat fastening for clocks. No. 1,336,204; Apr. 6; v. 273; p. 95.

Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

Crowell, William J., Jr., Lebanon, Pa. Differential-pressure gage. No. 1,336,511; Apr. 13; v. 273; p. 211.

Crowell, William J., Jr., Wyncote, Pa. Ratio-meter. No. 1,336,512; Apr. 13; v. 273; p. 212.

Crump, Harry, Auckland, New Zealand. Extension-table. No. 1,338,558; Apr. 27; v. 273; p. 744.

Cummings, Rezin H., Topeka, Kans. Cistern-filter. No. 1,337,595; Apr. 20; v. 273; p. 493.

Curran, Edward T., Detroit, Mich. Burner for gaseous fuels. No. 1,337,824; Apr. 20; v. 273; p. 536.

Curry, William P., Syracuse, N. Y. Machine for cutting bevels. No. 1,336,731; Apr. 13; v. 273; p. 255.

Curtain Supply Company, The. (See Schneider, George, assignor.)

Curtin, David F., Chicago, Ill. Dispenser for paper-cup blanks. No. 1,337,392; Apr. 20; v. 273; p. 454.

Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)

Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)

Curtiss Aeroplane and Motor Corporation. (See Musson, Edward T., assignor.)

Curtiss Aeroplane and Motor Corporation. (See Tarbox, John P., assignor.)

Curtiss, Charles E., Clinton, Wis. Tillage-blade. No. 1,336,821; Apr. 13; v. 273; p. 272.

Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)

Culter & Proctor Stove Co. (See Sass, Fred J., assignor.)

Cutler, William F., Oakland, assignor of one-half to Captain P. Verdier, San Francisco, Calif. Electric water-heater. No. 1,337,120; Apr. 13; v. 273; p. 329.

Cuyler, Edward H., and M. B. Patterson, assignors, by mesne assignments, to The Pacific R & H Chemical Corporation, Los Angeles, Calif. Apparatus for gasifying liquids. No. 1,336,822; Apr. 13; v. 273; p. 272.

Czyzyk, Andrew, Grand Rapids, Mich. Furniture-caster. No. 1,337,344; Apr. 20; v. 273; p. 446.

Dague, George W., Alexandria, La. Vehicle-wheel. No. 1,335,939; Apr. 6; v. 273; p. 44.

Dahlberg, B. G. (See Munroe, Treadway B., assignor.)

Dahlstedt, Carl, Rockford, Ill. Valve-grinder. No. 1,338,212; Apr. 27; v. 273; p. 680.

Dale, Horace G., Little Rock, Ark. Folding camp-stool. No. 1,338,124; Apr. 27; v. 273; p. 663.

Dallimore, George W., Oakland, Calif. Convertible freight-car. No. 1,336,682; Apr. 13; v. 273; p. 245.

Damker, William J. E., Dunellen, N. J. Stationary jack. No. 1,336,620; Apr. 13; v. 273; p. 233.

Damschen, Gerhard P. A., Oconomowoc, Wis. Lightning-arrester. No. 1,338,213; Apr. 27; v. 273; p. 680.

Dana, John J., Savannah, Ga. Tire for motor-vehicles. No. 1,338,290; Apr. 27; v. 273; p. 694.

Danel, Joseph B. (See Roy, W. J., and Danel.)

Daniel, Albert J., Boone, Iowa. Bottle-stopper. No. 1,338,494; Apr. 27; v. 273; p. 732.

Dann, Ernest G., Chicago, Ill., assignor to The Dann Products Company. Bearing. No. 1,337,203; Apr. 20; v. 273; p. 419.

Dann Products Company, The. (See Dann, Ernest G., assignor.)

Dannelley, Dillon C., Dallas, Tex. Bottle-filling device. No. 1,336,071; Apr. 6; v. 273; p. 69.

Darby, Norman C., Piermont, N. Y. Motion-picture machine. No. 1,336,775; Apr. 13; v. 273; p. 262.

Darier, Georges E., Geneva, Switzerland. Recovery of benzene hydrocarbons from coal gas. No. 1,336,893; Apr. 13; v. 273; p. 286.

Darley, John W., Jr., Baltimore, Md. Button-sewing machine. No. 1,336,346; Apr. 6; v. 273; p. 121.

Darling Valve and Manufacturing Company. (See Thorne, R. H., and Miller, assignors.)

Darlington, Philip J., Hartford, Conn. Apparatus for straining or filtering liquids. No. 1,337,756; Apr. 20; v. 273; p. 524.

Darnell, George A. (See Za Haris, Michael J., assignor.)

Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus and method for building pneumatic tires. No. 1,335,879; Apr. 6; v. 273; p. 33.

Darrow, Wilton E., Sutter Creek, Calif. Slime-thickener. No. 1,336,553; Apr. 13; v. 273; p. 220.

Daum, George W. (See Lewis, S. G., and Daum.)

Davidson, Scott, and A. L. Schram, Illilsboro, Ill., assignors to Schram Glass Manufacturing Company, St. Louis, Mo. Apparatus for delivering mold-charges from glass-furnaces. No. 1,338,214; Apr. 27; v. 273; p. 680.

Davidson, William T., *et al.* (See Buckley, John J., assignor.)

Davies, John, W. H. Jones, J. Davies, and H. J. Hale, Liverpool, England. Covering or insulation for ships' decks, bulkheads, walls, floors, ceilings, and the like. No. 1,336,683; Apr. 13; v. 273; p. 245.

Davies, Joseph. (See Davies, J., Jones, and Hale.)

Davis-Bournonville Company. (See Buckley, William J., assignor.)

Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Hay-loader. No. 1,338,215; Apr. 27; v. 273; p. 680.

Davis, Christine, Minneapolis, Minn. Thread-holder. No. 1,336,554; Apr. 13; v. 273; p. 220.

Davis, Frank E., and D. A. Biebinger, assignors to La Crosse Plow Company, La Crosse, Wis. Plow. No. 1,338,559; Apr. 27; v. 273; p. 744.

Davis, Joseph K., assignor to Scovill Manufacturing Company, Waterbury, Conn. Air-distributer for lamp-burners. No. 1,337,825; Apr. 20; v. 273; p. 536.

Davis, Marion A., Sherman, Tex. Automobile-windlass. No. 1,337,757; Apr. 20; v. 273; p. 524.

Davis, Marion L., Sherman, Tex. Wire-fence shield. No. 1,336,205; Apr. 6; v. 273; p. 95.

Davis, Maxwell W., West Haven, Conn. Testing device. No. 1,336,424; Apr. 13; v. 273; p. 196.

Davis, Thomas, Mounds, Okla. Shock-absorber. No. 1,337,345; Apr. 20; v. 273; p. 446.

Davis, Thomas, Mounds, Okla. Shock-absorber. No. 1,337,346; Apr. 20; v. 273; p. 446.

Davis, Verner F., Orange, N. J. Temperature-regulator. No. 1,336,072; Apr. 6; v. 273; p. 69.

Davy, Robert B., Hayward, Calif. Vacuum-railway. No. 1,336,732; Apr. 13; v. 273; p. 255.

Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Breech mechanism of ordnance. No. 1,337,004; Apr. 13; v. 273; p. 306.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Lock mechanism of ordnance. No. 1,337,308; Apr. 20; v. 273; p. 439.

Day, Frank S., *et al.* (See Shapiro, Herman, assignor.)

Day, George H., Rochester, N. Y. Temple for spectacles. No. 1,335,823; Apr. 6; v. 273; p. 22.

Dayton Engineering Laboratories Company, The. (See Kettering, Charles F., assignor.)

Deakins, Grover C., and H. A. Harker, Fullerton, assignors of one-third to W. T. Alling, Anaheim, Calif. Overshot. No. 1,336,684; Apr. 13; v. 273; p. 245.

Dean, Thomas, Indianapolis, Ind. Machine for making book-covers. No. 1,336,944; Apr. 13; v. 273; p. 296.

Deans, Frank B., Sharon Hill, and B. K. Kirk, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Mechanism for operating the reels of mine-locomotives. No. 1,337,048; Apr. 13; v. 273; p. 315.

Debakey, Shiker M., Lake Charles, La. Show-case. No. 1,337,049; Apr. 13; v. 273; p. 316.

Debakey, Shiker M., Lake Charles, La. Home-store. No. 1,337,050; Apr. 13; v. 273; p. 316.

Debakey, Shirker M., Lake Charles, La. Automobile auxiliary table. No. 1,337,886; Apr. 20; v. 273; p. 458.

De Becker, Leon A., St. Margarets-on-Thames, England. Cabinet for gramophone and like records. No. 1,336,206; Apr. 6; v. 273; p. 95.

De Carlo, Vincenzo, Wireton, Pa. Field-kitchen. No. 1,335,941; Apr. 6; v. 273; p. 45.

De Cuzen, Canaan, Montreal, Quebec, Canada. Means for propelling and steering ships. No. 1,337,442; Apr. 20; v. 273; p. 463.

De Cew, Judson A., Montreal, Quebec, Canada. Making lubricating composition. No. 1,336,207; Apr. 6; v. 273; p. 95.

De Cew, Judson A., Montreal, Quebec, Canada. Oil and soap solution. No. 1,337,546; Apr. 20; v. 273; p. 483.

De Costa, Arthur V., Providence, R. I. Toy. No. 1,337,758; Apr. 20; v. 273; p. 524.

Deem, Arthur S., assignor of one-half to C. A. Brossman, Reading, Pa. Fuse-plug. No. 1,338,426; Apr. 27; v. 273; p. 719.

Deen, James L. (See McGrother, J. F., and Deen.)

Deever, Frederick P., assignor of one-half to A. B. Cooper, Mannington, W. Va. Nut-lock. No. 1,336,733; Apr. 13; v. 273; p. 255.

De Ferranti, Sebastian Z., Baslow, England. Electrical transformer. No. 1,336,894; Apr. 13; v. 273; p. 286.

Defiance Machine Works. (See McCarty, William F., assignor.)

De Forest, Edgar A., assignor to Marvel Machinery Company, Minneapolis, Minn. Boring-machine. No. 1,337,393; Apr. 20; v. 273; p. 455.

De Graff, Fannie, Ilwaco, Wash. Waffle-iron. No. 1,336,734; Apr. 13; v. 273; p. 255.

De Graff, George A., Milwaukee, Wis., assignor of one-half to H. J. Smith, Chicago, Ill. Dolly extension. No. 1,336,073; Apr. 6; v. 273; p. 70.

De Guenther, Edward J., Milwaukee, Wis. Hinge for closet-tops. No. 1,337,643; Apr. 20; v. 273; p. 502.

Deister, Emil and W. F., assignors to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,335,824; Apr. 6; v. 273; p. 23.

Deister Machine Company. (See Deister, Emil and W. F., assignors.)

Deister, William F. (See Deister, Emil and W. F.)

Delano, James K., New York, N. Y. Starting device for internal-combustion engines. No. 1,337,887; Apr. 20; v. 273; p. 549.

Delano, James K., Yonkers, N. Y. Electrical starting and ignition system. (Reissue.) No. 14,842; Apr. 20; v. 273; p. 568.

De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)

Delaygue, Charles, Paris, France. Apparatus for ice-making and refrigerating purposes. No. 1,337,888; Apr. 20; v. 273; p. 549.

Delco-Light Company, The. (See Ketterling, Charles F., assignor.)

Delco-Light Company, The. (See Midgley, Thomas, Jr., assignor.)

De Lemos, Ernesto, New York, N. Y. Paper box. No. 1,337,507; Apr. 20; v. 273; p. 476.

Delohi, Nicholas J., Ritchie, Ill. Automobile-door-opening device. No. 1,338,560; Apr. 27; v. 273; p. 745.

De Long, Nelson, Chicago, Ill. Stand. No. 1,335,726; Apr. 6; v. 273; p. 4.

De Lukacsevics, Charles, assignor to J. Winter, New York, N. Y. Carbureter. No. 1,337,051; Apr. 13; v. 273; p. 316.

Demas, Demetreos J., Pittsburgh, Pa. Resilient tire. No. 1,337,443; Apr. 20; v. 273; p. 464.

Demorest, Edmurn L., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Tractor-wheel. No. 1,336,074; Apr. 6; v. 273; p. 70.

Dempsey, Edward M., Sidney, Ohio. Faucet. No. 1,336,026; Apr. 6; v. 273; p. 61.

Demuth, Alfred M., Chicago, Ill. Slicing-machine. No. 1,337,596; Apr. 20; v. 273; p. 493.

Denemark, Jacob, Trenton, N. J. Machine for pressing seams. No. 1,337,204; Apr. 20; v. 273; p. 419.

De Nisson, A. C. (See Richards, Albert J., assignor.)

Denson, Jessie D., Grand Rapids, Mich. Aeroplane. No. 1,336,982; Apr. 13; v. 273; p. 302.

De Pretz, John D. (See Dobbins, Douglas, assignor.)

Derby, P., & Company. (See Bancroft, F. H., assignor.)

Derry, Theodore J., Windsor, Ontario, Canada. Window-cleaning device. No. 1,338,002; Apr. 27; v. 273; p. 640.

De Saunier, Charles L. B., Paris, France. Vehicle-coupling attachment. No. 1,338,561; Apr. 27; v. 273; p. 745.

Desautels, Charles H., Springfield, Mass. Overhead switch. No. 1,337,121; Apr. 13; v. 273; p. 329.

Desoutter, Charles, London, England. Artificial leg. No. 1,335,781; Apr. 6; v. 273; p. 15.

Dessaules, Paul, Nanterre, France. Tractor. No. 1,336,823; Apr. 13; v. 273; p. 272.

De Vilbiss, John A., and H. L. Miller; said De Vilbiss assignor to G. F. Ernst, St. Louis, Mo. Intensifier for spark-plugs. No. 1,335,940; Apr. 6; v. 273; p. 44.

Devine, George F., Portland, Me. Locomotive roundhouse-jack. No. 1,337,347; Apr. 20; v. 273; p. 446.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,336,824; Apr. 13; v. 273; p. 272.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,336,825; Apr. 13; v. 273; p. 273.

Dewey, H. T., & Sons Company. (See Baulig, Herman, assignor.)

Dewey, Haywood G., assignor to F. H. Knapp Company, Westminster, Md. Method of and apparatus for wrapping cans and the like. No. 1,337,693; Apr. 20; v. 273; p. 511.

Dexter, Bayard P. (See Dexter, Fred A. and B. P.)

Dexter, Fred A. and B. P., Orange, Mass. Facing-tool for dressing valve-seats, &c. No. 1,337,052; Apr. 13; v. 273; p. 316.

Diamond Power Specialty Company. (See Herman, S. J., and MacKenzie, assignors.)

Diaphone Signal Company, The. (See Sims, Frederick L. H., assignor.)

Dick, Ralph H., and C. F. Wolters, assignors to Safe-Cabinet Company, Marietta, Ohio. Heat-resisting safe or cabinet. No. 1,336,347; Apr. 6; v. 273; p. 121.

Dick Safety Corporation. (See Woodman, Richard N., assignor.)

Dickelman, Lizzie H., Forest, Ohio. Grain-storehouse construction. No. 1,336,945; Apr. 13; v. 273; p. 296.

Dickie, James. (See Jardine, J. C., and Dickie.)

Diesbach, Fritz G., administrator. (See Krauth, Albert.)

Dilg, Charles H. J., New York, N. Y. Motor-fan. No. 1,337,644; Apr. 20; v. 273; p. 502.

Dillingham, Frederick A., assignor to The Troy Carriage Sunshade Company, Troy, Ohio. Weather-strip. No. 1,337,394; Apr. 20; v. 273; p. 455.

Dingman, George, Flint, Mich. Hand-clamp and drill outfit. No. 1,337,205; Apr. 20; v. 273; p. 419.

Disinger, Paul M., Syracuse, N. Y. China-burnishing machine. No. 1,335,985; Apr. 13; v. 273; p. 246.

Disston, Henry, & Sons. (See Jenkins, David W., assignor.)

Dittrich, August C., Chicago, Ill. Time control for sound-reproducing mechanism. No. 1,337,759; Apr. 20; v. 273; p. 524.

Dittrich, August C., Chicago, Ill. Time control for sound-reproducing mechanism. No. 1,337,760; Apr. 20; v. 273; p. 524.

Dmitriff, Vasily N., New York, N. Y., assignor of forty per cent. to R. Kliavin, Seattle, Wash. Tree-sawing apparatus. No. 1,337,395; Apr. 20; v. 273; p. 455.

Doak, John H., Los Angeles, Calif. Roasting and boiling device. No. 1,337,122; Apr. 13; v. 273; p. 329.

Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Airplane. No. 1,336,946; Apr. 13; v. 273; p. 296.

Dobbins, Douglas, assignor of one-half to J. D. De Prez, Shelbyville, Ind. Airplane. No. 1,336,947; Apr. 13; v. 273; p. 296.

Dobson, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,335,956; Apr. 6; v. 273; p. 48.

Dodds, Redus D., Houston, Tex. Device for taking samples from wells. No. 1,335,880; Apr. 6; v. 273; p. 33.

Dodge, Homer L., Iowa City, Iowa. Rheostat. No. 1,337,826; Apr. 20; v. 273; p. 536.

Dodge Manufacturing Company. (See Mix, Melville W., assignor.)

Dodge, William L., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,761; Apr. 20; v. 273; p. 524.

Dodson, Alcada F., Milan, Mo. Calculating-machine. No. 1,336,686; Apr. 13; v. 273; p. 246.

Dodson, John C., Stone Mountain, assignor of one-half to O. L. Dodson, Lithonia, Ga. Window shade and curtain hanger. No. 1,337,827; Apr. 20; v. 273; p. 537.

Dodson, Orbert L. (See Dodson, John C., assignor.)

Doe, Loring B., assignor of one-half to E. G. Lewis, San Francisco, Calif. Draft device. No. 1,336,735; Apr. 13; v. 273; p. 255.

Doellinger, Louis F., Waterloo, Iowa. Wringer attachments. No. 1,335,957; Apr. 6; v. 273; p. 48.

Doering, Charles, Jr. (See Doering, Henry, C., Jr., and M.)

Doering, Henry, C., Jr., and M., Chicago, Ill. Liquid cooling and dispensing apparatus. No. 1,337,206; Apr. 20; v. 273; p. 419.

Doering, Max. (See Doering, Henry, C., Jr., and M.)

Doherty, Edward M., Los Angeles, and J. H. Jeffries, Inglewood, Calif. Mechanical movement. No. 1,338,427; Apr. 27; v. 273; p. 726.

Dohner, John H., Dayton, Ohio. Coupling for tubing. No. 1,337,547; Apr. 20; v. 273; p. 484.

Dolan, John, Dayton, Ohio. Hoisting mechanism. No. 1,335,782; Apr. 6; v. 273; p. 15.

Dolecek, Joseph, Rahway, N. J. Truss. No. 1,336,513; Apr. 13; v. 273; p. 212.

Dolen, Asa, Tarrytown, N. Y. Portable leaf and waste furnace. No. 1,338,125; Apr. 27; v. 273; p. 663.

Doll, Robert F., Bartonsville, Pa. Whip-socket. No. 1,336,948; Apr. 13; v. 273; p. 296.

Doman, Lewis B., De Witt, assignor to The Amphion Piano Player Company, Syracuse, N. Y. Motor-mounting for bellows-pumps. No. 1,337,645; Apr. 20; v. 273; p. 502.

Dominski, Mike. (See Wilczynski, Józef, assignor.)

Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broach. No. 1,336,621; Apr. 13; v. 273; p. 233.

Donelson, Walter E., Conway, Mass. Bushing-remover. No. 1,338,495; Apr. 27; v. 273; p. 733.

Dooley, Francis J., Boston, Mass. Acid-charging system for digesters. No. 1,338,496; Apr. 27; v. 273; p. 733.

Doran, James A., and J. G., Providence, R. I. Separable button. No. 1,337,889; Apr. 20; v. 273; p. 549.

Doran, Joseph G. (See Doran, James A., and J. G., assignors.)

Doran, Robert L., Chicago, Ill. Heating plant. No. 1,338,361; Apr. 27; v. 273; p. 708.

Dorffel, George, Oakland, Calif. Worm-drive. No. 1,336,286; Apr. 6; v. 273; p. 110.

Dorffel, George, Oakland, Calif. Submarine vessel. No. 1,336,287; Apr. 6; v. 273; p. 110.

Dorl, Walter P., Detroit, Mich. Door-controlling apparatus. No. 1,338,073; Apr. 27; v. 273; p. 653.

Dornbrook, Fred L., Milwaukee, Wis., assignor, by mesne assignments, to The Vulcan Soot Cleaner Company. Boiler soot-blower. No. 1,337,828; Apr. 20; v. 273; p. 537.

Dorr Company, The. (See Peck, Charles L., assignor.)

Dorsey, Arthur A., Lawrence, Kans. Vulcanizer. No. 1,335,783; Apr. 6; v. 273; p. 16.

Dorthen, Otto, Stillwater, Minn. Scraping-machine. No. 1,337,890; Apr. 20; v. 273; p. 549.

Dottl, Joseph, Madison, Wis. Support. No. 1,335,881; Apr. 6; v. 273; p. 33.

Doucette, William, Revere, Mass. Drinking-fountain. No. 1,336,401; Apr. 6; v. 273; p. 131.

Dougherty, Robert, New York, N. Y., and J. F. Kirby, Somerville, N. J. Oil-heater. No. 1,336,208; Apr. 6; v. 273; p. 95.

Doughty, Henry J., Providence, R. I., assignor to Doughty Tire Company, Portland, Me. Forming Tires and mechanism for practising the same. No. 1,337,207; Apr. 20; v. 273; p. 419.

Doughty Tire Company. (See Doughty, Henry J., assignor.)

Douglas, Harry A., Bronson, Mich. Gun. No. 1,337,444; Apr. 20; v. 273; p. 464.

Douglas, John, Company, The. (See Hohmeister, Arthur, assignor.)

Douglas, Theodore, Scarboro, N. Y., assignor to The Duplex Engine-Governor Company, Inc. Governor drive mechanism. No. 1,338,362; Apr. 27; v. 273; p. 708.

Dow Chemical Company, The. (See Dow, H. H., and Barstow, assignors.)

Dow, Herbert H., and E. O. Barstow, assignors to The Dow Chemical Company, Midland, Mich. Method of making magnesium chlorid. No. 1,336,425; Apr. 13; v. 273; p. 196.

Downs, William F., Chatham, N. J. Treating alunite. No. 1,338,428; Apr. 27; v. 273; p. 720.

Doyle, John R., Philadelphia, Pa. Valve. No. 1,338,562; Apr. 27; v. 273; p. 745.

Doyle, William J., Brooklyn, N. Y. Medical appliance. No. 1,337,829; Apr. 20; v. 273; p. 537.

Drabek, Charles, assignor to The Drabek Equalizer Company, Cleveland, Ohio. Spring-tire for vehicle-wheels. No. 1,337,445; Apr. 20; v. 273; p. 464.

Drabek Equalizer Company, The. (See Drabek, Charles, assignor.)

Drag, Nicholaus, Milwaukee, Wis. Automatic rodent-trap. No. 1,335,882; Apr. 6; v. 273; p. 33.

Dragus, Nickalaus E., Fremont, Ohio. Pruning implement. No. 1,338,216; Apr. 27; v. 273; p. 680.

Draper Corporation. (See Rhodes, Albert C., assignor.)

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper Corporation. (See Coupe, Lawrence W., assignor.)

Drew Carrier Company. (See Peters, E. A., and Welhoefer, assignors.)

Dreyling, Alfred, Jamesburg, N. J., and W. C. Locke, Stamford, Conn. Making canvas wire-cloth. No. 1,337,053; Apr. 13; v. 273; p. 317.

Drinkwater, Charles M., Kokomo, Ind. Food-cabinet. No. 1,336,776; Apr. 13; v. 273; p. 263.

Driver, Charles H., Racine, Wis. Saw-blade. No. 1,336,209; Apr. 6; v. 273; p. 95.

Driver, John R. and M. B., Berkeley, Calif. Collapsible container. No. 1,336,895; Apr. 13; v. 273; p. 286.

Driver, John R. and M. B., Berkeley, Calif. Storage-container. No. 1,336,896; Apr. 13; v. 273; p. 286.

Driver, Michael B. (See Driver, John R. and M. B.)

Drullner, George W., Minneapolis, Minn. Register. No. 1,336,210; Apr. 6; v. 273; p. 96.

Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Core-plate for drying cores. No. 1,337,005; Apr. 13; v. 273; p. 306.

Drummond, Albert, Los Angeles, Calif. Door-catch. No. 1,336,897; Apr. 13; v. 273; p. 287.

Dudgeon, John F., Norfolk, Nebr. Radiator-protector. No. 1,338,614; Apr. 27; v. 273; p. 754.

Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,338,217; Apr. 27; v. 273; p. 681.

Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,338,218; Apr. 27; v. 273; p. 681.

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Duffy, Charles H., Chevy Chase, Md. Spark-plug. (Reissue.) No. 14,847; Apr. 27; v. 273; p. 763.

Duffy, Henry, Longmont, Colo. Vacuum sealing device. No. 1,336,211; Apr. 6; v. 273; p. 96.

Dugan, Thomas M. (See Holmes, A. B., and Dugan.)

Duluth Corrugating & Roofing Company. (See Severson, Thomas, assignor.)

Dun Lany, William P., Maywood, Ill., assignor to American Can Company, New York, N. Y. Coin-controlled package-dispensing apparatus. No. 1,336,514; Apr. 13; v. 273; p. 212.

Dunkelberger, Lloyd P., Allentown, Pa. Cloth-measuring device. No. 1,337,891; Apr. 20; v. 273; p. 549.

Dunlap, Matthew E. (See Sponsler, O. L., Dunlap, and Henning.)

Dunlop Rubber Company, The. (See Twiss, Douglas F., assignor.)

Dunn, David, Philadelphia, Pa. Safety milk-bottle support and sanitary protector therefor. No. 1,336,826; Apr. 13; v. 273; p. 273.

Dunn, Edmund L. (See Dunn, Louis, assignor.)

Dunn, Louis, assignor to E. L. Dunn, St. Paul, Minn. Safety device for point-switches. No. 1,337,054; Apr. 13; v. 273; p. 317.

Dunn & McCarthy. (See Marshall, James F., assignor.)

Dunn, Thomas J., Jersey City, N. J. Telegraph instrument. No. 1,338,497; Apr. 27; v. 273; p. 733.

Dunlex Engine-Governor Company, The. (See Douglas, Theodore, assignor.)

Duplex Printing Press Company. (See Bechman, Henry F., assignor.)

Duplex Truck Company. (See Thomas, George J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Booge, James E., assignor.)

Du Pont, E. I., de Nemours, and Company. (See Clark, Charles T., assignor.)

Du Pont, E. I., de Nemours, & Company. (See Henning, Clarence I. B., assignor.)

Du Pont, E. I., de Nemours and Company. (See Houlehan, Arthur E., assignor.)

Dupont, Omer. (See Sargery, J. A., and Dupont.)

Dupuy, René J., assignor to Compagnie Generale D'Electricite, Paris, France. Steam-turbine. No. 1,336,827; Apr. 13; v. 273; p. 273.

Durand, Louis, Lawrence, Mass. Lug-strap connection. No. 1,337,055; Apr. 13; v. 273; p. 317.

Durant Manufacturing Company. (See Wetmore, Charles P., assignor.)

Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Rim for eyeglasses and spectacles. No. 1,335,942; Apr. 6; v. 273; p. 45.

Dutcher, Charles, Seattle, Wash. Milk-bottle handle. No. 1,338,660; Apr. 27; v. 273; p. 763.

Dutcher, Pierpont E., Milwaukee, Wis. Self-operating latch. No. 1,338,219; Apr. 27; v. 273; p. 681.

Duvall, George W., N. H. Beebe, and H. E. Smith, assignors to Modern Broom Machinery Company, Davenport, Iowa. Combined evener and cutter. No. 1,337,056; Apr. 13; v. 273; p. 317.

Dwyer, William C., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,336,687; Apr. 13; v. 273; p. 246.

Dysart, William L., and C. H. Laulus, Harlowton, Mont. Auto-tire scope. No. 1,338,615; Apr. 27; v. 273; p. 754.

Eagle Wagon Works, The. (See Underhill, W. A., and Avery, assignors.)

Eames, George M., and J. S. Finch, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Embroidery-sewing machine. No. 1,338,074; Apr. 27; v. 273; p. 654.

Eastman Kodak Company. (See Fohner, William F., assignor.)

Eastman Kodak Company. (See Kroedel, Robert, assignor.)

Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive construction. No. 1,336,555; Apr. 13; v. 273; p. 220.

Eaton, Harrison H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,337,208; Apr. 20; v. 273; p. 420.

Ebeling, Charles W., New York, N. Y. Toy. No. 1,336,556; Apr. 13; v. 273; p. 220.

Eckart, George F., Lexington, Ky. Flexible coupling. No. 1,337,646; Apr. 20; v. 273; p. 502.

Economy Shoe Machine Co. (See Terry, George O., assignor.)

Edison Storage Battery Company. (See Smith, Roscoe J., assignor.)

Edman, John, Minneapolis, Minn., assignor, by mesne assignments to P. M. Power, Chicago, Ill. Convertible stock and freight car. No. 1,337,348; Apr. 20; v. 273; p. 446.

Edna Brass Manufacturing Company, The. (See Macneir, Edwin, assignor.)

Edser, Edwin, Brockley, and S. Tucker, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of ores. No. 1,337,548; Apr. 20; v. 273; p. 484.

Edwards, Charles R., Pekin, Ill. Pump. No. 1,337,057; Apr. 13; v. 273; p. 317.

Edwards, Daniel G., Woodlawn, Tenn. Explosive shell. No. 1,336,828; Apr. 13; v. 273; p. 273.

Edwards, Henry E. (See Buch, Max, assignor.)

Eganey, Michael A., *et al.* (See Hemmer, Frederick L., assignor.)

Egersdörfer, Fritz. (See Hammer, Arthur, and Egersdörfer.)

Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-amplifier. No. 1,337,694; Apr. 20; v. 273; p. 512.

Egler, Nickolas F., Chicago, Ill. Heating-furnace. No. 1,338,003; Apr. 27; v. 273; p. 640.

Eglit, John J., New York, N. Y. Lifeboat-davit. No. 1,336,075; Apr. 6; v. 273; p. 70.

Ehret, Cornelius D., Philadelphia, Pa. Method of and apparatus for producing X-rays. No. 1,337,349; Apr. 20; v. 273; p. 447.

Eilender, Walter L. E., Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. High-speed steel. No. 1,337,209; Apr. 20; v. 273; p. 420.

Eilender, Walter L. E., Remscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. High-speed tool-steel. No. 1,337,210; Apr. 20; v. 273; p. 420.

Eilers, Frank, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Piston-head. No. 1,337,982; Apr. 20; v. 273; p. 567.

Eisele, Charles W., Flint, Mich. Lamp-dimmer. No. 1,335,737; Apr. 6; v. 273; p. 5.

Eiselt, Robert O., Blue Earth, Minn. Bicycle attachment. No. 1,337,396; Apr. 20; v. 273; p. 455.

Eisendecher, Ernesto, Valdivia, Chile. Wrist-watch holder. No. 1,338,563; Apr. 27; v. 273; p. 745.

Eisler, Charles, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Filament-winding machine. No. 1,338,498; Apr. 27; v. 273; p. 733.

Eisler, Charles, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for making filament-supports for incandescent lamps. No. 1,338,499; Apr. 27; v. 273; p. 733.

Eisler, Charles, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for making incandescent-lamp stems. No. 1,338,500; Apr. 27; v. 273; p. 734.

Eklundh, John G. G., C. Oden, and J. A. Schmitt, assignors to The Universal Milking Machine Company, Columbus, Ohio. Milking-machine. No. 1,337,211; Apr. 20; v. 273; p. 420.

Electro Metallurgical Company. (See Mardick, John R., assignor.)

Electro Metallurgical Company. (See Mardick, J. R., and Becket, assignors.)

Electro-Metals Limited. (See Bibby, J., and Boving, assignors.)

Elfreth, Emily A., *et al.*, executors. (See Allen, Samuel L.)

Ellerbeck, William L., Salt Lake City, Utah. Tooth-polishing device. No. 1,335,825; Apr. 6; v. 273; p. 23.

Elliott, Clarence V., Baton Rouge, La. Carbureter. No. 1,336,288; Apr. 6; v. 273; p. 110.

Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Threading-machine. No. 1,336,777; Apr. 13; v. 273; p. 263.

Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Mount for nails or the like. No. 1,337,212; Apr. 20; v. 273; p. 420.

Ellis, Charles E. (See Banta, Leonard A., assignor.)

Ellis, Roy J. (See Carpenter, C. C., and Ellis.)

Ellis, William M. (See Blankinship and Ellis.)

Ellmauer, Josef, Milwaukee, Wis. Automatic sealer and lubricator for refrigerating-compressors. No. 1,336,076; Apr. 6; v. 273; p. 70.

Ellwein, Frederick, Hazen, N. D. Steering device for motor-vehicles. No. 1,337,830; Apr. 20; v. 273; p. 537.

Elman, Samuel, Syracuse, N. Y. Garment-trimming machine. No. 1,338,291; Apr. 27; v. 273; p. 694.

Elmendorf, Armin, Madison, Wis. Fuselage. No. 1,338,564; Apr. 27; v. 273; p. 745.

Elton, Olaf, Port Washington, Wis. Chair-iron. No. 1,335,883; Apr. 6; v. 273; p. 34.

Elton, Olaf, Port Washington, Wis. Chair adjustment. No. 1,335,884; Apr. 6; v. 273; p. 34.

Emeus, Albert L., assignor to Sangamo Electric Company, Springfield, Ill. Cord-terminal for electric wires. No. 1,335,943; Apr. 6; v. 273; p. 45.

Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)

Emerson, George A., assignor of one-half to H. S. Bagley, San Francisco, Calif. Portable elevator. No. 1,336,949; Apr. 13; v. 273; p. 296.

Emerson, Victor L., Philadelphia, Pa. Apparatus for distillation. No. 1,337,831; Apr. 20; v. 273; p. 537.

Emery, Raymond D., assignor to W. M. Whitney, Winchendon, Mass. Woodworking-machine. No. 1,337,695; Apr. 20; v. 273; p. 512.

Enameled Steel Sign Company. (See Bacon, William M., assignor.)

Endres, Lawrence M. (See Endres, Michael A., and L. M.)

Endres, Michael A. and L. M., Cross Plains, Wis. Sectional wheel-rim. No. 1,337,446; Apr. 20; v. 273; p. 464.

Engel, Herman C. (See Ketler, William H., assignor.)

Engelberg, Arthur, Oakland, Calif. Telephone receiver and receiver-switch. No. 1,337,892; Apr. 20; v. 273; p. 550.

Enterprise Manufacturing Company of Pennsylvania, The. (See Punzelt, Edward E., assignor.)

Erbel, Adam, and J. Wuepper, Bay City, Mich. Automobile-wheel jack. No. 1,335,885; Apr. 6; v. 273; p. 34.

Erich, Reuben, San Jose, Calif. Washing-machine. No. 1,338,501; Apr. 27; v. 273; p. 734.

Erickson, Erick, Minneapolis, Minn. Sack-holder. No. 1,338,126; Apr. 27; v. 273; p. 663.

Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. (Reissue.) No. 14,834; Apr. 6; v. 273; p. 133.

Ernst, George F. (See De Vilbiss, J. A., and Miller, assignors.)

Erret, Joseph, Cleveland, Ohio. Wind-shield holder. No. 1,338,004; Apr. 27; v. 273; p. 640.

Ershler, Louis H., and M. Hendler, Hudson, N. Y. Bedspring. No. 1,337,508; Apr. 20; v. 273; p. 476.

Eskilson, Sven A., assignor to Aktiebolaget Salenius' Werkstader, Stockholm, Sweden. Inlet device for the whole-milk in centrifugal apparatus. No. 1,335,784; Apr. 6; v. 273; p. 16.

Esperson, Christian. (See Nelson, Frederick, assignor.)

Esson, Robert L., Johannesburg, Transvaal, South Africa. Loose-leaf binder. No. 1,337,124; Apr. 13; v. 273; p. 329.

Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)

Evans, George, Elnora, Alberta, Canada. Combined post-hole-digger, wire-tightener, and crowbar. No. 1,336,027; Apr. 6; v. 273; p. 61.

Everett, Ernest P. (See Smith, H. J., and Everett.)

Everett Fibre Products Corporation. (See Smith, H. J., and Everett, assignors.)

Evers, William H., Lakewood, Ohio. Building construction. No. 1,335,886; Apr. 6; v. 273; p. 34.

Evon, Louis C., assignor to Searight-Downs Manufacturing Co., Detroit, Mich. Molding-core. No. 1,336,212; Apr. 6; v. 273; p. 96.

Ewart, John W. (See Ewart, Samuel and J. W., and Prangnell.)

Ewart, Samuel and J. W., London, and N. W. Prangnell, Marylebone, London, England. Ventilating for light-projectors or lanterns. No. 1,337,832; Apr. 20; v. 273; p. 538.

Ewen, Malcolm F., Chicago, Ill., assignor, by mesne assignments, to Montague Iron Works Corporation. Refrigerating-cabinet. No. 1,337,696; Apr. 20; v. 273; p. 512.

Ewing, Floyd C., Jeromesville, Ohio. Bracket for vehicle-springs. No. 1,336,829; Apr. 13; v. 273; p. 273.

Ewing, Guss, assignor of one-third to R. Rowe, Egypt, Miss. Barber-chair. No. 1,338,616; Apr. 27; v. 273; p. 754.

Fafnir Bearing Company, The. (See Gilbert, Daniel J., assignor.)

Fagrie, Philip T., Seattle, Wash. Plumb-bob. No. 1,336,289; Apr. 6; v. 273; p. 110.

Fairbanks, Morse & Company. (See Hobart, F. G., and Jahnke, assignors.)

Fairbanks, Morse & Company. (See Hobart, Franklin G., assignor.)

Fairey, Charles R., Hayes, England. Aeroplane. No. 1,337,762; Apr. 20; v. 273; p. 525.

Fairmont Gas Engine & Railway Motor Car Co. (See Kasper, Walter F., assignor.)

Faithfull, Wyndham L., Follott, Sussex, England. Stirrup-leather. No. 1,335,826; Apr. 6; v. 273; p. 23.

Falkiner, Edward J., Wellington, New Zealand. Receptacle filling and measuring machine. No. 1,338,429; Apr. 27; v. 273; p. 720.

Fandrich, Ernest. (See Leonard, P. A., Maloney, and Fandrich.)

Fanger, Fred E., Mexico, Mexico. Attachment for typewriters. No. 1,338,565; Apr. 27; v. 273; p. 745.

Fanslow, Benjamin O., Queens county, assignor to New Era Mfg. Company, New York, N. Y. Check-writing machine. No. 1,337,006; Apr. 13; v. 273; p. 307.

Farnsworth, William F., Washington, D. C. Lock-washer. No. 1,335,944; Apr. 6; v. 273; p. 45.

Farquhar, Moubray G., and A. H. Hill, Edgbaston, Birmingham, England. Cartridge-magazine for rifles and machine-guns. No. 1,337,893; Apr. 20; v. 273; p. 550.

Farr, Warren H., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Automatically-operating hood-door-fastening device. No. 1,335,958; Apr. 6; v. 273; p. 48.

Farrell, Samuel J. (See Overmyer, Charles C., assignor.)

Farrington, Charles E., Philadelphia, Pa. Barrel-agitator. No. 1,336,830; Apr. 13; v. 273; p. 273.

Federal Telegraph Company. (See Fuller, Leonard F., assignor.)

Feldmann, William, Chicago, Ill. Temporary binder. No. 1,337,213; Apr. 20; v. 273; p. 420.

Felt, Vanderlyn H., assignor of forty-nine one-hundredths to W. A. Crandall, Kendall, N. Y. Elevator. No. 1,338,127; Apr. 27; v. 273; p. 664.

Fend, Roland S., Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio. Automobile. No. 1,337,007; Apr. 13; v. 273; p. 307.

Fend, Roland S., Chicago, Ill., assignor to The Baker R & L Company, Cleveland, Ohio. Automobile. No. 1,337,008; Apr. 13; v. 273; p. 307.

Fenety, Witter W. O., Fredericton, New Brunswick, Canada. Incandescent-lamp socket. No. 1,336,736; Apr. 13; v. 273; p. 255.

Fenger-Grön, Andreas, Hellerup, Denmark. Manufacturing insulating bodies of "moler." No. 1,338,566; Apr. 27; v. 273; p. 746.

Fentress, Henry C., Glen Dean, Ky. Automatic take-off device for glass-blowing machines. No. 1,336,028; Apr. 6; v. 273; p. 62.

Ferguson, Willis G., Cleveland, Ohio. Control system for valves and the like. No. 1,336,515; Apr. 6; v. 273; p. 212.

Ferko, John J., Cleveland, Ohio. Stabilizer for boats. No. 1,336,688; Apr. 13; v. 273; p. 246.

Fernans, Anthony W., Pawtucket, R. I. Traffic-signal for automobiles. No. 1,338,430; Apr. 27; v. 273; p. 720.

Fesler, Douglas F., and H. R. Hedman, assignors to Hedman Manufacturing Co., Chicago, Ill. Printing apparatus. No. 1,338,645; Apr. 27; v. 273; p. 760.

Fido, Edwin G., Bombay, India. Pneumatic tire. No. 1,336,348; Apr. 6; v. 273; p. 121.

Field, Samuel. (See Sulman, H. L., and Field.)

Field, Samuel, assignor to The Metals Extraction Corporation, Limited, London, England. Purification of zinc solutions. No. 1,337,058; Apr. 13; v. 273; p. 318.

Fiftal, Walter, Waterbury, Conn. Interchangeable-jawed tool. No. 1,338,005; Apr. 27; v. 273; p. 640.

Finch, Clifton R., Newark, N. J. Framework for display publicity by machine. No. 1,336,831; Apr. 13; v. 273; p. 273.

Finch, John S. (See Eames, G. M., and Finch.)

Fink, William O., South Range, Wis. Cattle-guard. No. 1,338,006; Apr. 27; v. 273; p. 640.

Finkelstein, Morris F., New York, N. Y. Electrical fitting. No. 1,336,290; Apr. 6; v. 273; p. 110.

Finley, Harry O., Forres, Saskatchewan, Canada. Barrel-tap. No. 1,338,007; Apr. 27; v. 273; p. 641.

Finn, William J., Washington, D. C. Automobile-theft-detection device. No. 1,335,827; Apr. 6; v. 273; p. 23.

Finnegan, Bernard J., New York, N. Y. Bottle. No. 1,336,737; Apr. 13; v. 273; p. 256.

Finstrom, Gustaf L., Chicago, Ill. Extensible rule, &c. No. 1,338,176; Apr. 27; v. 273; p. 673.

First Trust & Savings Company, The, trustees. (See Freeman, Ladbrook H., assignor.)

Fisch, Benjamin, Brooklyn, N. Y. Sleigh-runner attachment for vehicles. No. 1,337,833; Apr. 20; v. 273; p. 538.

Fischer, Christian A., Grand Forks ,N. D. Marker. No. 1,336,029; Apr. 6; v. 273; p. 62.

Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,338,363; Apr. 27; v. 273; p. 708.

Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,338,364; Apr. 27; v. 273; p. 708.

Fischer, Philip A., New York, N. Y. Adjustable cap. No. 1,337,397; Apr. 20; v. 273; p. 455.

Fisher, J. Arthur. (See Fitzgerald, Robert J., assignor.)

Fisher, Olive, Tipton, assignor of one-half to J. A. Mayne, Kokomo, Ind. Revolving chair. No. 1,337,059; Apr. 13; v. 273; p. 318.

Fisher, William W. (See Pentecost, A., and Fisher.)

Fitzgerald Mfg. Company, The. (See Fitzgerald, Patrick J., assignor.)

Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Gasket. No. 1,338,617; Apr. 27; v. 273; p. 755.

Fitzgerald, Robert J., assignor of one-half to J. A. Fisher, New York, N. Y. Condenser. No. 1,337,549; Apr. 20; v. 273; p. 484.

Fitzpatrick, Frank E., Fond du Lac, Wis. Tie-plate. No. 1,338,431; Apr. 27; v. 273; p. 720.

Flagg, Earl W., Tenino, Wash. Permutation hasp-lock. No. 1,335,959; Apr. 6; v. 273; p. 48.

Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,336,689; Apr. 13; v. 273; p. 246.

Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,336,690; Apr. 13; v. 273; p. 247.

Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,336,691; Apr. 13; v. 273; p. 247.

Flannery Bolt Company. (See Flannery, John R., assignor.)

Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Manufacture of staybolts for boilers. No. 1,336,213; Apr. 6; v. 273; p. 96.

Fleckner, Luther M., San Francisco, Calif. Tree-shaker. No. 1,337,398; Apr. 20; v. 273; p. 456.

Fletcher, Harold W., Houston, Tex. Well-packer. No. 1,336,738; Apr. 13; v. 273; p. 256.

Fletcher, Harold W., Houston, Tex. Pipe-tongs. No. 1,337,509; Apr. 20; v. 273; p. 476.

Flexo Motive Corporation. (See Hupp, Irvin, assignor.)

Flum, Edward L., Highland Park, Mich., and J. A. Maschino, Seymour, Ind. Automobile-jack. No. 1,337,125; Apr. 13; v. 273; p. 329.

Flynn, Dennis J., New Brunswick, N. J. Reinforced-concrete floor construction. No. 1,338,567; Apr. 27; v. 273; p. 746.

Flynn, John. (See McClellan, C. D., and Flynn.)

Flynn, Olice A., Milton, Wash. Comic doll. No. 1,336,898; Apr. 13; v. 273; p. 287.

Foco Oil Company. (See Grant, Denison W., assignor.)

Foerderer, Louis S., Indianapolis, Ind. Sewer-trap. No. 1,338,432; Apr. 27; v. 273; p. 720.

Foerster, Tom J., and L. J. Pfund, Auburn, Mich. Automatically-closing bulkhead-door. No. 1,337,060; Apr. 13; v. 273; p. 318.

Foley, William V., New Brunswick, N. J., assignor to India Rubber Company. Dye-stick. No. 1,337,009; Apr. 13; v. 273; p. 309.

Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,335,728; Apr. 6; v. 273; p. 5.

Folwell, Frank L., Des Moines, Iowa. Self-adjusting device for holding and tensioning antiskid-chains. No. 1,338,646; Apr. 27; v. 273; p. 760.

Foote, Leonard, Pedro Miguel, Canal Zone, Panama. Electric motor. No. 1,338,568; Apr. 27; v. 273; p. 746.

Ford, Andrew F., Portland, Oreg. Gearless differential. No. 1,336,950; Apr. 13; v. 273; p. 297.

Ford, George H., Needles, Calif. Self-locking seal. No. 1,338,618; Apr. 27; v. 273; p. 755.

Forman, Joseph, Baltimore, Md. Garment-fastener. No. 1,336,692; Apr. 13; v. 273; p. 247.

Forman, Philip, Jersey City, N. J. Combined mixing and dispensing apparatus. No. 1,336,214; Apr. 6; v. 273; p. 96.

Fornirraseo, Domenico, Klamath Falls, Oreg. Wrench. No. 1,337,550; Apr. 20; v. 273; p. 484.

Forrest, James M., Jr., San Francisco, Calif. Faucet-filter. No. 1,337,061; Apr. 13; v. 273; p. 318.

Forshee, James K., Chicago, Ill. Electrode. No. 1,337,894; Apr. 20; v. 273; p. 550.

Forsythe Mfg. Co. (See Allen, Frederick B., assignor.)

Forward, Frank L., Nyack, N. Y., assignor to Universal Planer Company, Inc. Portable planing-machine. No. 1,337,350; Apr. 20; v. 273; p. 447.

Foss, Benjamin Q. P., assignor to The Foss International Ore Reduction Company, San Francisco, Calif. Apparatus for desulfurizing and treating ore. No. 1,338,292; Apr. 27; v. 273; p. 695.

Foss International Ore Reduction Company. (See Foss, Benjamin Q. P., assignor.)

Foster, Lloyd. (See Cook, T. B., and Foster.)

Foster, William S., Dallas, Wis. Road-planer. No. 1,336,215; Apr. 6; v. 273; p. 97.

Fountain, Jefferson L., Jr. (See Abbott, Cecil H., assignor.)

Four-Drive Tractor Company, The. (See Polaski, Henry P., assignor.)

Fournier, George P. (See Lemoine, D., and Fournier.)

Fowden, Joseph J., Philadelphia, Pa. Fire-grate. No. 1,337,214; Apr. 20; v. 273; p. 421.

Fowl, Percy M., *et al.* (See Heldeman, Fred J., assignor.)

Fowler, Ben F., Midian, Kans. Means of sediment-drainage. No. 1,337,215; Apr. 20; v. 273; p. 421.

Fowler, Charles. (See Nicholson, John W., assignor.)

Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Agricultural implement. No. 1,337,126; Apr. 13; v. 273; p. 329.

Fox, Julius, Cleveland, Ohio. Aeroplane. No. 1,338,128; Apr. 27; v. 273; p. 664.

Fox Typewriter Co. (See Nordmark, Henry P., assignor.)

Framburg, Henry A., Berwyn, Ill. Lamp-socket structure. No. 1,335,828; Apr. 6; v. 273; p. 23.

Frame, Bruce, Portland, Oreg. Sweeper. No. 1,336,349; Apr. 6; v. 273; p. 122.

Francis, Vincent H., Drumright, Okla., assignor to Frick-Reid Supply Company, Pittsburgh, Pa. Pump. No. 1,337,834; Apr. 20; v. 273; p. 538.

Francke, William J., Highland Park, N. J. Testing-machine. No. 1,335,887; Apr. 6; v. 273; p. 34.

Frank, Harry S., St. Louis, Mo. Making piston-rings. No. 1,337,551; Apr. 20; v. 273; p. 484.

Frank, Joseph, Frankfort-on-the-Main, Germany. Writing-tablet. No. 1,337,835; Apr. 20; v. 273; p. 538.

Frank, Otto H., Brooklyn, N. Y. Rack for hanging articles and the like. No. 1,337,399; Apr. 20; v. 273; p. 456.

Franklin, Milton W., Bloomfield, N. J., assignor to General Electric Company. Ozonator. No. 1,337,062; Apr. 13; v. 273; p. 318.

Frankman, Olof, Malmö, Sweden. Driving and running gear for agricultural machines and the like. No. 1,337,510; Apr. 20; v. 273; p. 477.

Frary, Francis C., Pittsburgh, Pa. Gas-holder. No. 1,337,975; Apr. 20; v. 273; p. 566.

Frazier, Walter S., Aurora, Ill. Automobile-bumper. No. 1,338,433; Apr. 27; v. 273; p. 721.

Fredericksen, David E., Kenosha, Wis. Gage. No. 1,336,426; Apr. 13; v. 273; p. 196.

Free, John W. (See O'Neil, D., Holmquist, and Free.)

Freed, George F., Ben Avon, assignor to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Driving connection to washing-machine cylinders. No. 1,337,552; Apr. 20; v. 273; p. 484.

Freedman, Benjiman, Coney Island, N. Y. Lock. No. 1,337,511; Apr. 20; v. 273; p. 477.

Freeman, Ladbrook H., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, trustee. Ironing-machine. No. 1,336,427; Apr. 13; v. 273; p. 196.

Freeman, William A., Hamilton, Ontario, Canada. Door-latch. No. 1,337,447; Apr. 20; v. 273; p. 465.

French, Arthur S. D., Bixby, Okla. Pump-jack. No. 1,335,960; Apr. 6; v. 273; p. 49.

French, Charles E., *et al.* (See Heldeman, Fred J., assignor.)

French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,337,448; Apr. 20; v. 273; p. 465.

French, Harry F. (See Benner, R. C., and French.)

French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,337,895; Apr. 20; v. 273; p. 550.

Frey, Sigmund, assignor to Woolwine Metal Products Company, Los Angeles, Calif. Holder for containers. No. 1,337,010; Apr. 13; v. 273; p. 308.

Frick Company. (See Barnes, Samuel C., assignor.)

Frick-Reid Supply Company. (See Francis, Vincent H., assignor.)

Friedman, Samuel W., Birmingham, Ala. Detachable trunk-rack for automobiles. No. 1,337,647; Apr. 20; v. 273; p. 502.

Friedrich, Gustav E., Grand Rapids, Mich. Machine for scouring cereals. No. 1,337,127; Apr. 13; v. 273; p. 330.

Friel, Patrick H., assignor to A. Terrell, Kenosha, Wis. Metal furniture constructed from lock-seam tubing. No. 1,337,128; Apr. 13; v. 273; p. 330.

Fries, Charles R. (See Fries, Winslow J. C. R., and W. P.)

Fries, William P. (See Fries, Winslow J. and W. P.)

Fries, Winslow J., C. R., and W. P., Philadelphia, Pa. Culinary device. No. 1,338,129; Apr. 27; v. 273; p. 664.

Frisbie, James M., and E. C. Tilton, Thompson Falls, Mont. Lineman's climber. No. 1,335,945; Apr. 6; v. 273; p. 45.

Fritzsche, Hermann. (See Anderwert, E. and Fritzsche.)

Froggatt, George A. (See Froggatt, George H., G. A., and T. E.)

Froggatt, George H., G. A., and T. E., Columbus, Ohio. Recording device. No. 1,338,647; Apr. 27; v. 273; p. 760.

Froggatt, Thomas E. (See Froggatt, George H., G. A., and T. E.)

Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Yarn and fabric and producing. No. 1,336,516; Apr. 13; v. 273; p. 213.

Froussard, Albert F., St. Louis, Mo. Shoe-pounding machine. No. 1,338,434; Apr. 27; v. 273; p. 721.

Fryer, John A., and W. W. Wallace, Tulsa, Okla. Torpedo for shooting oil-wells. No. 1,337,063; Apr. 13; v. 273; p. 318.

Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Suspension device for caterpillar-vehicles. No. 1,336,832; Apr. 13; v. 273; p. 274.

Fuchs, Ernest, Paris, assignor to Louis Renault, Billancourt, France. Driving-chain. No. 1,338,293; Apr. 27; v. 273; p. 695.

Fuelling, Franklin C., Roslyn, N. Y. Ironing-board. No. 1,337,512; Apr. 20; v. 273; p. 477.

Fulignd, Benedict, and C. J. Muhsgnug, New York, N. Y. Automobile-reflector dimmer. No. 1,336,951; Apr. 13; v. 273; p. 297.

Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,336,693; Apr. 13; v. 273; p. 247.

Fuller, George E., Chicago, Ill. Sign. No. 1,336,517; Apr. 13; v. 273; p. 213.

Fuller, James W., Catasauqua, assignor to Fuller-Lehigh Company, Fullerton, Pa. Sampling device for pulverizer-mills. No. 1,337,697; Apr. 20; v. 273; p. 512.

Fuller-Lehigh Company. (See Fuller, James W., assignor.)

Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,336,833; Apr. 13; v. 273; p. 274.

Fuller, Norman A., Yamhill, Oreg. Loader. No. 1,337,896; Apr. 20; v. 273; p. 550.

Fulton, Charles, Coffeyville, Kans. Package and article carrier. No. 1,335,888; Apr. 6; v. 273; p. 35.

Fulton Company, The. (See Fulton, Weston M., assignor.) (Reissue.)

Fulton, Harry L., Pueblo, Colo. Auto-service bulletin. No. 1,336,739; Apr. 13; v. 273; p. 256.

Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Trap. No. 1,337,064; Apr. 13; v. 273; p. 319.

Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Automatic tank regulator. (Reissue.) No. 14,843; Apr. 20; v. 273; p. 568.

Fulton, William H., Pittsburgh, Pa. Light-distributing means. No. 1,335,889; Apr. 6; v. 273; p. 35.

Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Carrier for driers and the like. No. 1,337,351; Apr. 20; v. 273; p. 447.

Furness, William H., National Park, N. J. Method and apparatus for winding artificial silk. No. 1,338,648; Apr. 27; v. 273; p. 760.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Synchronous alternating-current motor. No. 1,337,648; Apr. 20; v. 273; p. 502.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starting and ignition system for internal-combustion engines. No. 1,337,649; Apr. 20; v. 273; p. 503.

Gabbett-Fairfax, Hugh W., London, England. Automatic or semi-automatic firearm. No. 1,338,649; Apr. 27; v. 273; p. 761.

Gabrielson, John B., Springville, N. Y. Radiator. No. 1,335,890; Apr. 6; v. 273; p. 35.

Gadke, William, Philadelphia, Pa. Short-contact push-button. No. 1,335,729; Apr. 6; v. 273; p. 5.

Gage, Jay, Los Angeles, Calif. Grade-indicator. No. 1,336,694; Apr. 13; v. 273; p. 247.

Gage, W. J., & Company. (See Brookes, Edward E., assignor.)

Gail, John F., assignor to Simmons Company, Kenosha, Wis. Feeding mechanism. No. 1,336,622; Apr. 13; v. 273; p. 233.

Gale, Francis G. (See Greene, Chester W., assignor.)

Gallagher, William H., Berkeley, Calif. Display-case. No. 1,336,899; Apr. 13; v. 273; p. 287.

Galleazzi, Joseph, San Francisco, Calif. Instrument for securing concave metal stoppers in barrels or the like. No. 1,338,619; Apr. 27; v. 273; p. 755.

Galloway, William F., Little Rock, Ark. Interest-computing device. No. 1,336,900; Apr. 13; v. 273; p. 287.

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cord-packing. No. 1,336,030; Apr. 6; v. 273; p. 62.

Gams, Alphons, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Allylester of the 2-phenylquinolin-4-carboxylic acid. No. 1,336,952; Apr. 13; v. 273; p. 297.

Gandil, Ernst V., Copenhagen, Denmark. Door-spring. No. 1,337,763; Apr. 20; v. 273; p. 525.

Garbell, Abraham, Philadelphia, Pa. Toilet-box. No. 1,336,216; Apr. 6; v. 273; p. 97.

Garcia, José A., New York, N. Y. Jack-centering device. No. 1,337,065; Apr. 13; v. 273; p. 310.

Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Work-table for grinding-machines. No. 1,337,352; Apr. 20; v. 273; p. 447.

Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Grinding-machine. No. 1,337,353; Apr. 20; v. 273; p. 447.

Gardner, William E., Pittsburgh, assignor of one-third to H. C. Black, Ben Avon, and one-third to J. Jacob, Pittsburgh, Pa. Electrical-heater resistance element. No. 1,338,294; Apr. 27; v. 273; p. 695.

Garford, Arthur L. (See Parkes, Walter, assignor.)

Garner, Francis M., Beech Grove, Ark. Bed. No. 1,335,961; Apr. 6; v. 273; p. 49.

Garrett, Wilbur M., Lookeba, Okla. Kafir-header. No. 1,338,295; Apr. 27; v. 273; p. 695.

Garrigue, Florence, Danvers, Mass. Toy. No. 1,337,354; Apr. 20; v. 273; p. 447.

Garson, Thorvald N., New York, N. Y. Crane. No. 1,337,400; Apr. 20; v. 273; p. 456.

Gaskin, Robert J. (See Tarras, Harry M., assignor.)

Gates, Abram, Carroll, near Burnetts Creek, Ind. Spark-plug. No. 1,337,216; Apr. 20; v. 273; p. 421.

Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,337,011; Apr. 13; v. 273; p. 308.

Gay, Conley, Middletown, N. Y. Game. No. 1,338,502; Apr. 27; v. 273; p. 734.

Gaynor, Arthur C., Stratford, Conn. Ceiling and floor plate. No. 1,335,730; Apr. 6; v. 273; p. 5.

Gebhardt, William, San Antonio, Tex. Spring-wheel. No. 1,336,031; Apr. 6; v. 273; p. 62.

Geigy, J. R., S. A. (See Fischer, Max, assignor.)

Geist, Carlton. (See Wiederwax, Robert W., assignor.)

General American Tank Car Corporation. (See Parks, Ostrander J., assignor.)

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Briggs, Robert M., assignor.) (Reissue.)

General Electric Company. (See Carichoff, Eugene R., assignor.)

General Electric Company. (See Coolidge, William D., assignor.)

General Electric Company. (See Franklin, Milton W., assignor.)

General Electric Company. (See French, Henry G., assignor.)

General Electric Company. (See Hall, Chester I., assignor.)

General Electric Company. (See Hobart, Henry M., assignor.)

General Electric Company. (See Hutt, Leonard E., assignor.)

General Electric Company. (See Johannesen, Svend E., assignor.)

General Electric Company. (See Krone, Ward E., assignor.)

General Electric Company. (See Mackay, George M. J., assignor.)

General Electric Company. (See Murphy, E. J., and Thompson, assignor.)

General Electric Company. (See Pacz, Aladar, assignor.)

General Electric Company. (See Quay, Emile J., assignor.)

General Electric Company. (See Rice, Chester S., assignor.)

General Electric Company. (See Shorey, John A., assignor.)

General Electric Company. (See Standerwick, Reginald G., assignor.)

General Electric Company. (See Stone, C. W., and Hobart, assignors.)

General Electric Company. (See Templeton, William B., signor.)

General Electric Company. (See Thompson, Louis W., assignor.)

General Electric Company. (See Thomson, Elihu, assignor.)

General Engineering Company, The. (See Thornhill, Edwin B., assignor.)

General Motors Company. (See Short, Charles R., assignor.)

General Motors Corporation. (See Farr, Warren H., assignor.)

General Motors Corporation. (See Sturt, Alfred T., assignor.)

General Motors Corporation. (See Whitten, Frank A., assignor.)

General Petroleum Corporation. (See Cannon, H., Barbre, and Leslie, assignors.)

General Petroleum Corporation. (See Leslie, E. H., and Barbre, assignors.)

Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,338,008; Apr. 27; v. 273; p. 641.

Gensmer, Theodore, and G. F. Lieberman, assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Machine for effecting orderly distribution of articles. No. 1,336,778; Apr. 13; v. 273; p. 263.

George, Edward E. (See Spencer, William O., assignor.)

Gerardy, Edward, Chandler, Okla. Indicator for hay-presses. No. 1,337,553; Apr. 20; v. 273; p. 484.

Gerber, Otto, Witten-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Ceramic composition. No. 1,336,740; Apr. 13; v. 273; p. 256.

Gerbig, Philip M., Alton, assignor of one-half to F. O. White, Belleville, Ill. Vehicle-awning. No. 1,336,953; Apr. 13; v. 273; p. 297.

Gerdien, Hans, Berlin-Schmargendorf, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Arrangement for evacuating gases from vessels. No. 1,335,829; Apr. 6; v. 273; p. 24.

Gerrish, Edward W., Lynn, Mass. Last. No. 1,338,650; Apr. 27; v. 273; p. 761.

Ghent, George A., Buhl, Idaho. Land-leveling machine. No. 1,337,355; Apr. 20; v. 273; p. 448.

Gherardi, Bancroft, Bayhead, N. J., assignor to American Telephone and Telegraph Company. Anti-abrasion cable-support. No. 1,336,558; Apr. 13; v. 273; p. 221.

Gibb, Walton, assignor to Alexander Brothers, Philadelphia, Pa. Joining leather and joint made thereby. No. 1,335,830; Apr. 6; v. 273; p. 24.

Gibbons, Charles H., and J. P. Cleal, Toronto, Ontario, Canada. Phonograph-starting device. No. 1,338,365; Apr. 27; v. 273; p. 708.

Gibson, Angus H., Salt Lake City, Utah. Centrifugal machine. No. 1,336,779; Apr. 13; v. 273; p. 263.

Gibson, Lewis, *et al.* (See Ash, Richard L., assignor.)

Giebel, Julius, and F. H. Zimmerman; said Giebel assignor to The Herbrand Company, Fremont, Ohio. Manufacturing dies and a hub or sinker therefor. (Reissue.) No. 14,835; Apr. 6; v. 273; p. 133.

Gielen, Peter G., Paterson, N. J. Loom. No. 1,336,741; Apr. 13; v. 273; p. 256.

Gifford, Clayton J., Manton, Mich. Cultivator. No. 1,336,217; Apr. 6; v. 273; p. 97.

Gilbert, Daniel J., assignor to The Fafnir Bearing Company, New Britain, Conn. Oiling and protecting means for ball-bearings, &c. No. 1,337,397; Apr. 20; v. 273; p. 493.

Gilbert, Frederick B., Modesto, Calif. Gate-operating mechanism. No. 1,337,897; Apr. 20; v. 273; p. 550.

Gilbert, John T., De Funiak Springs, Fla. Device for use in buying ice. No. 1,337,836; Apr. 20; v. 273; p. 538.

Gillarde, Frank, Springfield, Ill. Banana weigher and hanger. No. 1,338,220; Apr. 27; v. 273; p. 681.

Gillies, Robert A., Calgary, Alberta, Canada. Collapsible table-top. No. 1,336,954; Apr. 13; v. 273; p. 297.

Gillingham, Charles A., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Battery-switch. No. 1,337,217; Apr. 20; v. 273; p. 421.

Gilliom, Daniel A., Decatur, Ind. Music-machine. No. 1,338,620; Apr. 27; v. 273; p. 755.

Gilmer, Thomas W., Bay Minette, Ala. Strainer or receptacle. No. 1,337,898; Apr. 20; v. 273; p. 551.

Gilmore, Samuel R., Seattle, Wash. Plate-puller. No. 1,336,291; Apr. 6; v. 273; p. 111.

Gilson, J. E., Company. (See Gilson, John, Sr., assignor.)

Gilson, John, Sr., assignor to J. E. Gilson Company, Port Washington, Wis. Adjustable weeder. No. 1,336,623; Apr. 13; v. 273; p. 233.

Girard, Adolph G., San Francisco, Calif. Pump-support. No. 1,338,621; Apr. 27; v. 273; p. 755.

Girard, Fred F., Washingtonville, Ohio. Jar wrench and holder. No. 1,337,899; Apr. 20; v. 273; p. 551.

Girard, Pedro E. (See Martinez, Regino A., assignor.)

Glaser, Lillian, Detroit, Mich. Gas-mantle. No. 1,335,831; Apr. 6; v. 273; p. 24.

Glatz, Frank, Kansas City, Mo. Driving mechanism for airplanes. No. 1,338,435; Apr. 27; v. 273; p. 721.

Glauber Brass Manufacturing Company. (See Wuesthoff, Maximilian W., assignor.)

Glaze, Frederick E., Denver, Colo. Rotary engine. No. 1,337,218; Apr. 20; v. 273; p. 421.

Gleason, L. H. (See Zahnow, Frank C., assignor.)

Gleerup-Möller, Magdelin C., Copenhagen, Denmark. Punch for perforating belts. No. 1,338,296; Apr. 27; v. 273; p. 695.

Goddard, Stewart, Toronto, Ontario, Canada. Tire-chain. No. 1,338,009; Apr. 27; v. 273; p. 641.

Godward, James F., Ashtabula Harbor, Ohio. Garment-supporter. No. 1,337,901; Apr. 20; v. 273; p. 551.

Golanke, Alexander S., Milwaukee, Wis. Copy-holder. No. 1,336,834; Apr. 13; v. 273; p. 274.

Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)

Gold, Edward E., New York, N. Y., assignor to Gold Car Heating & Lighting Company. Electrothermic motor for thermostatic systems. No. 1,337,764; Apr. 20; v. 273; p. 525.

Goldberg, Solomon H., Chicago, Ill. Retreading tires. No. 1,336,624; Apr. 13; v. 273; p. 234.

Golden, P. F. (See Beach, John, assignor.)

Goldsmith, Charles B., Waterbury, Conn. Transit-chute for safety-pin-carding apparatus. No. 1,335,731; Apr. 6; v. 273; p. 5.

Goldsmith, Joseph, Jr. (See Maker, Ralph K., assignor.)

Goldsmith, William H., Jr., Quincy, Mass. Pneumatic card-cleaning apparatus. No. 1,338,651; Apr. 27; v. 273; p. 761.

Goldstein, Simon I., Baltimore, Md. Umbrella-tip. No. 1,336,218; Apr. 6; v. 273; p. 97.

Goldstein, Simon I., Baltimore, Md. Umbrella-tip. No. 1,336,219; Apr. 6; v. 273; p. 97.

Góngora, Tomás, San Antonio, Tex. Man's garment. No. 1,337,698; Apr. 20; v. 273; p. 512.

Goodfriend, Samuel, Yonkers, N. Y. Bread-pan. No. 1,336,292; Apr. 6; v. 273; p. 111.

Goodman Manufacturing Company. (See Sloane, William W., assignor.)

Goodrich, B. F., Company, The. (See Converse, F. B., and Butler, assignors.)

Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,309; Apr. 20; v. 273; p. 439.

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,310; Apr. 20; v. 273; p. 439.

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,699; Apr. 20; v. 273; p. 513.

Goodwin, George, Newtown, assignor to G. H. Lyster, Wellington, New Zealand. Bedstead. No. 1,337,012; Apr. 12; v. 273; p. 308.

Goodwin, John O. (See Shutts, B. A., and Goodwin.)

Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)

Goodyear Tire & Rubber Company, The. (See Templeton, Edwin G., assignor.)

Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)

Gordon, Paca C., *et al.* (See Blankfield, George, assignor.)

Gore, Jacob L., assignor of one-half to A. L. Blount, Hugo, Okla. Automatic ticket-dispensing machine. No. 1,337,837; Apr. 20; v. 273; p. 539.

Gorman, John F., Portland, Oreg. Spark-controlling mechanism for internal-combustion engines. No. 1,336,350; Apr. 6; v. 273; p. 122.

Gorton, Arthur C., and G. R. Carr, Titusville, Pa. Filter. No. 1,337,066; Apr. 13; v. 273; p. 319.

Goss Printing Press Company, The. (See Smith, Ernest J., assignor.)

Gothner, John, assignor of one-fifth to E. W. Cook, one-fifth to W. R. Hallem, one-fifth to J. Haney, and one-fifth to S. L. Perrin, Superior, Wis. Oil and dust guard for journal-box. No. 1,336,428; Apr. 13; v. 273; p. 196.

Gould Coupler Company. (See Creveling, John L., assignor.)

Gould, Frederick J., London, and E. S. Stamp, Birmingham, England. Shade-support for gas-burners and electric lights. No. 1,336,835; Apr. 13; v. 273; p. 274.

Gould, Harry M., Portland, Me. Garment-hanger. No. 1,336,429; Apr. 13; v. 273; p. 197.

Goulding, Horatio C., *et al.* (See Johnson, A. L., and Alsten, assignors.)

Gow, Alexander M., Duluth, Minn. Dump-car. No. 1,338,010; Apr. 27; v. 273; p. 641.

Graeves-Khusman Tool Company, The. (See Jackson, George E., assignor.)

Graf, Fredric O., San Francisco, Calif. Knockdown cabinet for automobiles. No. 1,337,449; Apr. 20; v. 273; p. 465.

Graft, Russell R., Norfolk, Nebr. Demountable rim and lock therefor for wheels. No. 1,338,072; Apr. 27; v. 273; p. 653.

Grammich, Frank, Brooklyn, N. Y. Holder for disk records. No. 1,336,293; Apr. 6; v. 273; p. 111.

Grant, Charles W. (See Braden, R. D., and Grant.)

Grant, Denison W., assignor to Foco Oil Company, Franklin, Pa. Cooler. No. 1,336,742; Apr. 13; v. 273; p. 256.

Grant, Gideon, *et al.* (See Weston, A. H., and Peters, assignors.)

Grant, James W., Bridgeport, Conn., assignor to F. J. Klein, Long Island City, N. Y. Paper-fastener. No. 1,337,598; Apr. 20; v. 273; p. 493.

Granville, Bernard, New York, N. Y. Armored tire. No. 1,338,011; Apr. 27; v. 273; p. 641.

Graves, Velma C., Yakima, Wash. Plate-lifting device. No. 1,337,450; Apr. 20; v. 273; p. 465.

Gray, Chester E. (See Rew, William O., assignor.)

Gray, Ellsworth, Goose Creek, Tex. Spear. No. 1,337,902; Apr. 20; v. 273; p. 551.

Great Northern Paper Company. (See Pope, Charles E., assignor.)

Green, Joseph A., Providence, R. I. Pressure-indicator. No. 1,338,436; Apr. 27; v. 273; p. 721.

Green, M. E., Manufacturing Company. (See Scott, John M., assignor.)

Greene, Chester W., Lynn, Mass., assignor to F. G. Gale, Waterville, Canada. Stand or support. No. 1,338,437; Apr. 27; v. 273; p. 721.

Greene, Morgan A., Rupert, Idaho. Beet-topper. No. 1,335,962; Apr. 6; v. 273; p. 49.

Greenfield, Benjamin, Bartlesville, Okla. Boiler-furnace. No. 1,338,438; Apr. 27; v. 273; p. 722.

Greenleaf, William H., Hartford, Conn., assignor to Connecticut Electric Clock Co., Inc., New York, N. Y. Locking device. No. 1,338,221; Apr. 27; v. 273; p. 681.

Greenwood, Guyon F., Georgeville, Quebec, Canada. Metallurgical method and apparatus. No. 1,338,439; Apr. 27; v. 273; p. 722.

Greenwood, Guyon F., Georgeville, Quebec, Canada. Production of lead. No. 1,338,440; Apr. 27; v. 273; p. 722.

Greenwood, Harold C., London, England. Synthetic production of ammonia. No. 1,337,903; Apr. 20; v. 273; p. 552.

Greenwood, Harold C., and W. R. Tate, London, England. Construction of catalyst-furnaces. No. 1,335,891; Apr. 6; v. 273; p. 35.

Greer, John A., Omaha, Nebr. Station-indicator and advertising device. No. 1,336,032; Apr. 6; v. 273; p. 62.

Greer, Thomas H. (See Scott, J. W., and Greer.)

Greville, Ernest E., London, England. X-ray tube-stand and table. No. 1,337,904; Apr. 20; v. 273; p. 552.

Griffin, Albert A., Davenport, Iowa. Chiropractic table. No. 1,337,311; Apr. 20; v. 273; p. 439.

Griffin, Albert A., Davenport, Iowa. Chiropractic table. No. 1,337,312; Apr. 20; v. 273; p. 440.

Griffin, John J., & Sons Limited. (See McAlpine, George L., assignor.)

Griffiths, Ethel G., *et al.*, executors. (See Whitaker, Frederick B.)

Greene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Device for connecting tools to spindles. No. 1,337,313; Apr. 20; v. 273; p. 440.

Gromes, Adam J., Sinking Spring, Pa. Limb and foot brace. No. 1,336,695; Apr. 13; v. 273; p. 248.

Groschke, F. E. (See Hales, Wiley J., assignor.)

Grover, Albert D., New York, N. Y. Head-tightening device for banjos and the like. No. 1,338,076; Apr. 27; v. 273; p. 654.

Grover, Charles, Gravesend, assignor to W. T. Henley's Telegraph Works Company, Limited, London, England. Distribution of electrical energy. No. 1,337,129; Apr. 13; v. 273; p. 330.

Groves, Cecil D., Thornton Heath; E. H. Jarvis, London, and H. W. Bradbury, Wallington, England. Means for automatically securing sliding window-sashes. No. 1,336,696; Apr. 13; v. 273; p. 248.

Groves, George S., Mount Ida, Va. Tractor unit. No. 1,337,905; Apr. 20; v. 273; p. 552.

Grubbe, Frank T. (See Morris, T. H., and Grubbe.)

Grüttefien, Wilhelm, Elberfeld, Germany, assignor to Alien Property Custodian. Trimethyl-acetyl-salicylic-acid compound. No. 1,338,297; Apr. 27; v. 273; p. 695.

Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Machine for making blanks for gear-rolls, &c., from spinnable textile fibers. No. 1,337,067; Apr. 13; v. 273; p. 519.

Guerreschi, Eraldo. (See Almagia L., and Guerreschi.)

Gumm, Gustave J., Superior, Wis. Electric garage-protector. No. 1,336,625; Apr. 13; v. 273; p. 234.

Gumprecht, William L., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,338,012; Apr. 27; v. 273; p. 642.

Gustafson, Carl J., assignor to Hendee Manufacturing Company, Springfield, Mass. Splash lubricating system for gas-engines. No. 1,337,013; Apr. 13; v. 273; p. 308.

Gustafson, George H., Joliet, Ill. Window-sash attachment. No. 1,336,430; Apr. 13; v. 273; p. 197.

Gutherlet, Charles, Philadelphia, Pa. Cutting and folding machine. No. 1,337,900; Apr. 20; v. 273; p. 551.

Guthrie, William, Motherwell, assignor of one-half to D. M. Wallace, Dennistoun, Glasgow, Scotland. Motor-tractor. No. 1,335,732; Apr. 6; v. 273; p. 5.

Gutzwiller, Herbert, Schönenwerd, Switzerland. Electric internal tube-heater. No. 1,336,559; Apr. 13; v. 273; p. 221.

Guyer, James, and G. Morales, New York, N. Y. Transmission-gearing. No. 1,337,906; Apr. 20; v. 273; p. 552.

Gwatkin, Benjamin. (See Randall, Victor E., assignor.)

Gwynn, Susie E. (See Gwynn, William A., assignor.)

Gwynn, William A., assignor to S. E. Gwynn, St. Louis, Mo. Vulcanizer. No. 1,336,220; Apr. 6; v. 273; p. 97.

Gwynn, William A., assignor to S. E. Gwynn, St. Louis, Mo. Spark-plug. No. 1,336,221; Apr. 6; v. 273; p. 97.

H. & F. Match Machine Corporation. (See Lispenard, George, assignor.)

Haag Cabinet Company. (See Howard, Emmett M., assignor.)

Haahr, Anton A., Copenhagen, Denmark, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-pricking machine. No. 1,338,013; Apr. 27; v. 273; p. 642.

Haas, Charles, Brooklyn, N. Y. Time-measuring device. No. 1,337,014; Apr. 13; v. 273; p. 309.

Hackman, Amandes, Allentown, Pa. Bed-rest. No. 1,336,294; Apr. 6; v. 273; p. 111.

Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-shoe and counter therefor. No. 1,337,219; Apr. 20; v. 273; p. 422.

Hagan, George J., Company. (See Costello, Thomas J., assignor.)

Hagemeyer, Henry F., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Vial machine. No. 1,335,733; Apr. 6; v. 273; p. 6.

Haggott, Warren A., trustee. (See Wingett, John N., assignor.)

Haines, George B., Chicago, Ill. Fire-extinguisher and the like. No. 1,337,130; Apr. 13; v. 273; p. 330.

Hakanson, Alfred, Brooklyn, assignor to Chatham Die Casting Co., Inc., New York, N. Y. Die-casting machine. No. 1,338,622; Apr. 27; v. 273; p. 756.

Hake, George, St. Louis, Mo. Garment-supporter. No. 1,337,131; Apr. 13; v. 273; p. 331.

Halbach, William M., Zurich, Switzerland. Means for use in fitting shoes. No. 1,338,623; Apr. 27; v. 273; p. 756.

Haldeman, Frederick, Canton, Ohio. Window-lock. No. 1,337,513; Apr. 20; v. 273; p. 477.

Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Safety-nut. No. 1,336,955; Apr. 13; v. 273; p. 297.

Hale, Henry J. (See Davies, J., Jones, and Hale.)

Hales, Wiley J., Houston, assignor of one-half to F. E. Groschke, Harris county, Tex. Nut-locking device. No. 1,336,077; Apr. 6; v. 273; p. 71.

Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Easel picture-frame. No. 1,338,441; Apr. 27; v. 273; p. 722.

Halftime Cooker Company. (See Waggoner, Jacob E., assignor.)

Hall, Albert N., Oak Park, Ill. Toy constructing material. No. 1,336,626; Apr. 13; v. 273; p. 234.

Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,560; Apr. 13; v. 273; p. 221.

Hall, Charles W., Keystone, W. Va. Sand-drier. No. 1,337,220; Apr. 20; v. 273; p. 422.

Hall, Chester L., Fort Wayne, Ind., assignor to General Electric Company. Thermostatic-valve unit. No. 1,337,907; Apr. 20; v. 273; p. 552.

Hall, Fred G., *et al.* (See Baird, Clifford J., assignor.)

Hall, Holmes. (See Kelly, James G., assignor.)

Hall, John A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,337,314; Apr. 20; v. 273; p. 440.

Hall, William E. (See La Rue, William E., assignor.)

Hallem, William R., *et al.* (See Gothner, John, assignor.)

Halliday, William B., Los Angeles, Calif. Washing-machine. No. 1,338,442; Apr. 27; v. 273; p. 722.

Hallowell, Andrew H. (See Clay, W. L., and Hallowell.)

Halter, William, Cleveland, Ohio. Combination socket and adapter. No. 1,336,431; Apr. 13; v. 273; p. 197.

Halvorsen, Ole, San Francisco, Calif. Bottle-holder. No. 1,338,652; Apr. 27; v. 273; p. 761.

Hamiel & Mather. (See Hostler, Edgar D., assignor.)

Hamilton, Clifford C., and J. Hutchinson, Gull Lake, Saskatchewan, Canada. Grease-cup. No. 1,336,135; Apr. 6; v. 273; p. 82.

Hamilton & Hansell. (See Herlenius, Jonas, assignor.)

Hamm, George H., Athens, N. Y. Calking-tool. No. 1,336,295; Apr. 6; v. 273; p. 111.

Hammer, Arthur, Berlin, and F. Egersdörfer, Berlin-Charlottenburg, Germany; said Egersdörfer assignor to said Hammer. Machine for marking linen and the like. No. 1,337,650; Apr. 20; v. 273; p. 503.

Hammerly, Richard, New York, N. Y. Piston-ring adjuster. No. 1,336,222; Apr. 6; v. 273; p. 98.

Hammond, William P., Passaic, N. J., and L. W. Luellen, Mountain Lakes, N. J., assignors, by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing device. No. 1,337,838; Apr. 20; v. 273; p. 539.

Hammontree, Charles O., and V. A. Nelson, Bremerton, Wash. Piston ring remover and inserter. No. 1,337,600; Apr. 20; v. 273; p. 494.

Hampson, Donald A., assignor to Morgans & Wilcox Mfg. Company, Middletown, N. Y. Printer's furniture. No. 1,336,223; Apr. 6; v. 273; p. 98.

Hamrock, Louis F. (See Murar, M. S., and Hamrock.)

Hancock, Charles E. (See Vickers, W. H., and Hancock.)

Hancock, John. (See Gloemker, Henry W., assignor.)

Hancock, Thomas, Bow, assignor to The Reflecto-Metal Company, Limited, London, England. Manufacture of metal reflectors, mirrors, and other metal articles having a reflecting surface or surfaces. No. 1,336,224; Apr. 6; v. 273; p. 98.

Hand, Edgar K., Chicago, Ill. Reinforced-concrete pile and panel. No. 1,338,503; Apr. 27; v. 273; p. 734.

Handelan, Daniel, Aberdeen, S. D. Hot-air heating system. No. 1,336,901; Apr. 13; v. 273; p. 287.

Handlan-Buck Manufacturing Company. (See Rolfes, George H., assignor.)

Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)

Haney, John, *et al.* (See Gothner, John, assignor.)

Haney, Robert L., Elkmont, Ala. Wagon-brake. No. 1,336,956; Apr. 13; v. 273; p. 298.

Hannam, William J., Springfield, Ohio. Trailer for camping purposes. No. 1,336,627; Apr. 13; v. 273; p. 234.

Hanscom, Frank Z., Elmhurst, Ill. Anterior tooth and backing. No. 1,335,734; Apr. 6; v. 273; p. 6.

Hansen, Christen M., Jersey City, N. J. Revoluble seat. No. 1,337,221; Apr. 20; v. 273; p. 422.

Hansen, Clifford O., Tiffin, Ohio. Friction-clutch. No. 1,338,298; Apr. 27; v. 273; p. 695.

Hanson, Ole R., Cadogan, Alberta, Canada. Traction-wheel. No. 1,338,299; Apr. 27; v. 273; p. 696.

Hanson, Swan. (See Olson, A., and Hanson.)

Hardel, Jean A., Paris, France. Explosive. No. 1,337,451; Apr. 20; v. 273; p. 465.

Harden, Jacob L., North Platte, Nebr. Plunger-rod for spring-wheels. No. 1,337,068; Apr. 13; v. 273; p. 319.

Hardie, R. W., Company. (See Hardie, Robert W., assignor.)

Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Humidifying air. No. 1,336,225; Apr. 6; v. 273; p. 98.

Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air-moistener. No. 1,337,766; Apr. 20; v. 273; p. 526.

Hardingham, George G. M., assignor to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Cutter for milling screw-threads. No. 1,335,892; Apr. 6; v. 273; p. 35.

Hardt, Benjiman F., and S. T. Taylor, San Saba, Tex. Torch or burner. No. 1,338,653; Apr. 27; v. 273; p. 761.

Harker, Harry A. (See Deakins, G. C., and Harker.)

Harlem Contracting Company. (See Shortell, William H., assignor.)

Harned, Charles T., Philadelphia, Pa. Flag-support. No. 1,337,222; Apr. 20; v. 273; p. 422.

Harpst, Frederick E., Houston, Tex. Testing device. No. 1,337,132; Apr. 13; v. 273; p. 331.

Harrington, William V. (See Ray, George W., assignor.)

Harris, Alfred F., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Delivery mechanism. No. 1,337,223; Apr. 20; v. 273; p. 422.

Harris Automatic Press Company, The. (See Harris, Alfred F., assignor.)

Harris, Moses H., New York, N. Y. Vending-machine. No. 1,336,743; Apr. 13; v. 273; p. 257.

Harris, Ralph W., Newark, Ohio. Automobile attachment. No. 1,337,555; Apr. 20; v. 273; p. 485.

Harris, William J. B., Bonham, Tex. Safe-lock. No. 1,337,554; Apr. 20; v. 273; p. 485.

Harris, William T., Charlottesville, Va. Feed-water heater and exhaust-steam conserver. No. 1,337,556; Apr. 20; v. 273; p. 485.

Harrison, Elmer F., Arthur, Ill. Gathering apparatus. No. 1,337,452; Apr. 20; v. 273; p. 465.

Harrison, Herbert C., assignor to Harrison Radiator Corporation, Lockport, N. Y. Radiator-unit. No. 1,336,136; Apr. 6; v. 273; p. 82.

Harrison Radiator Corporation. (See Harrison, Herbert C., assignor.)

Harrison, William H. (See Wilbur, R. S., and Harrison.)

Harrison, William H., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,471; Apr. 20; v. 273; p. 469.

Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,338,014; Apr. 27; v. 273; p. 642.

Hart, John H., Bennington, Vt. Sailboat. No. 1,336,226; Apr. 6; v. 273; p. 98.

Harter, Al, Los Angeles, Calif. Amalgamator. No. 1,336,697; Apr. 13; v. 273; p. 248.

Hartog, S. D., Manufacturing Company. (See Hartog, Stephen D., assignor.)

Hartog, Stephen D., assignor to S. D. Hartog Manufacturing Company, St. Louis, Mo. Piston-ring. No. 1,337,651; Apr. 20; v. 273; p. 503.

Harvey, Corbin L., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Paper-support for combined adding and typewriting machines. No. 1,336,836; Apr. 13; v. 273; p. 275.

Harvey, Leonard C., Malden, England. Electrically-heated melting-furnace. No. 1,337,839; Apr. 20; v. 273; p. 539.

Harvey, Louis B., Buffalo, N. Y. Air-valve hand-hole plate for disk wheels. No. 1,338,177; Apr. 27; v. 273; p. 673.

Harvey, Stanley T., Vancouver, British Columbia, Canada. Advertising display device. No. 1,337,315; Apr. 20; v. 273; p. 440.

Harvey, Walter J., Toronto, Ontario, Canada. Light-controlling device. No. 1,335,832; Apr. 6; v. 273; p. 24.

Harvie, William J., Auburn, N. Y. Mechanical ticket-taker. No. 1,335,963; Apr. 6; v. 273; p. 49.

Harwood, Leon C. (See Cheney, G. M., and Harwood.)

Hastings, Cornelius G., Glendale, Calif., assignor to Hastings Tunnel System Company. Tunnel-block. No. 1,337,767; Apr. 20; v. 273; p. 526.

Hastings, Ruben C. M., assignor to International Telephone Co., Columbus, Ohio. Telephone system. (Reissue.) No. 14,848; Apr. 27; v. 273; p. 763.

Hastings Tunnel System Company. (See Hastings, Cornelius G., assignor.)

Hathaway, Hosea, Brookline, Mass. Registering weighing-scale. No. 1,336,351; Apr. 6; v. 273; p. 122.

Hauschild, George W. (See Burnwatt, W. W., and Hauschild.)

Hausfeld, Joseph E., Cincinnati, Ohio. Non-crucible furnace. No. 1,336,137; Apr. 6; v. 273; p. 82.

Havens, Clara V., New York, N. Y. Brassière. No. 1,337,224; Apr. 20; v. 273; p. 423.

Hawk, Wayne K. (See Irwin, H. W., and Hawk.)

Hawkins, James E., Glendale, Calif. Can-punch. No. 1,338,300; Apr. 27; v. 273; p. 694.

Hawkins, Rubin C., St. Louis, Mo. Water-valve gear for pumps. No. 1,338,443; Apr. 27; v. 273; p. 722.

Hawks, Moses L., New York, N. Y. Can-opener. No. 1,337,514; Apr. 20; v. 273; p. 477.

Hawley, William L., North Little Rock, Ark. Wall-flashing. No. 1,337,840; Apr. 20; v. 273; p. 539.

Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,336,837; Apr. 13; v. 273; p. 275.

Hayes, Harry W., Indianapolis, Ind. Artificial floating fly and hook. No. 1,336,227; Apr. 6; v. 273; p. 99.

Haynes Stellite Company. (See Udy, Marvin J., assignor.)

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Storage-battery lamp. No. 1,338,222; Apr. 27; v. 273; p. 681.

Hazelett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Storage-battery terminal. No. 1,338,130; Apr. 27; v. 273; p. 669.

Heald, Clarence L., Cedar Rapids, Iowa. Artificial respirator. No. 1,337,255; Apr. 20; v. 273; p. 423.

Healy, Daniel L., San Francisco, Calif. Plowing and seeding apparatus. No. 1,336,902; Apr. 13; v. 273; p. 288.

Hearn, John F. (See Reynolds, J. N., and Hearn.)

Heasley, Jacob M., Pittsburgh, Pa. Tobacco tin or box. No. 1,336,228; Apr. 6; v. 273; p. 99.

Heath, Oscar. (See Trull, Lyman A., assignor.)

Heath, Samuel, Philadelphia, Pa. Combination-bracket for screens, shades, and curtains. No. 1,337,768; Apr. 20; v. 273; p. 526.

Heath, Samuel, Roxborough, Pa. Automatic screen. No. 1,338,223; Apr. 27; v. 273; p. 682.

Heberling, John, Rochester, N. Y. Indicating-lock. No. 1,337,401; Apr. 20; v. 273; p. 456.

Heberling, John, assignor of one-half to H. H. Simms, Rochester, N. Y. Printing-machine. No. 1,338,366; Apr. 27; v. 273; p. 709.

Hecnt, Walter C., Newport News, Va. Detachable handle for trucks. No. 1,336,033; Apr. 6; v. 273; p. 63.

Hector, John, Sauk Center, Minn. Animal-feed trough. No. 1,338,077; Apr. 27; v. 273; p. 654.

Hedberg, Guido A., Alingsås, Sweden. Manufacture of explosives. No. 1,335,785; Apr. 6; v. 273; p. 16.

Hedenburg, Oscar F., Pittsburgh, Pa., assignor to F. O. Moburg, Toledo, Ohio. Dry lime and sulfur product and making same. No. 1,336,957; Apr. 13; v. 273; p. 298.

Hedenstrom, Ernest E. G., Brooklyn, N. Y., assignor to Springfield Motors Company, Wilmington, Del. Automatic switch-operating device for aeroplane mechanisms. No. 1,336,138; Apr. 6; v. 273; p. 82.

Hedman, Herbert R. (See Fesler, D. F., and Hedman.)

Hedman Manufacturing Co. (See Fesler, D. F., and Hedman, assignors.)

Heenan & Froude. (See Wheal, Walter, assignor.)

Heeter, Thomas E., assignor to Wm. Waltke & Company, St. Louis, Mo. Wrapping, cartoning, and packing machine. No. 1,336,838; Apr. 13; v. 273; p. 275.

Hegelman, Theodore, Oak Park, Ill. Ball-bearing. No. 1,336,352; Apr. 6; v. 273; p. 122.

Heide, William, Detroit, Mich. Priming device. No. 1,337,226; Apr. 20; v. 273; p. 423.

Heideman, Fred J., assignor, by mesne assignments, to P. M. Fowl, H. R. Krueger, C. E. French, and F. J. Heideman, Detroit, Mich. Thermostat. No. 1,336,518; Apr. 13; v. 273; p. 213.

Heim, Adam, Liberty, Ind. Plug for railway-ties and the like. No. 1,338,444; Apr. 27; v. 273; p. 722.

Heinkel, Christian F., Cleveland, Ohio. Boring and reaming tool. No. 1,337,015; Apr. 13; v. 273; p. 309.

Helgerson, Thomas O., Minneapolis, Minn. Grain-separator. No. 1,336,958; Apr. 13; v. 273; p. 298.

Helliwell, John O., Pasadena, Calif. Pneumatic-tire valve. No. 1,337,316; Apr. 20; v. 273; p. 440.

Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of motor control. No. 1,336,561; Apr. 13; v. 273; p. 221.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,336,562; Apr. 13; v. 273; p. 222.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase motor-control system. No. 1,338,367; Apr. 27; v. 273; p. 709.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for alternating-current commutator-motors. No. 1,338,368; Apr. 27; v. 273; p. 709.

Hembree, Samuel S., and A. L. Johnson, Farris, Okla. Power-transmission mechanism. No. 1,337,908; Apr. 20; v. 273; p. 552.

Hemingway, Frank, Roundbrook, N. J. Manufacture of pure ferric oxid. No. 1,337,402; Apr. 20; v. 273; p. 456.

Hemmer, Frederick L., Lincoln, assignor of one-third to J. L. Schneider, New Market, and one-third to M. A. Eganey, Roundbrook, N. J. Nut-lock. No. 1,337,700; Apr. 20; v. 273; p. 513.

Hemming, Otto L., assignor to Winchester Repeating Arms Co., New Haven Conn., Pocket-knife. No. 1,337,709; Apr. 20; v. 273; p. 526.

Hendee Manufacturing Company. (See Gustafson, Carl J., assignor.)

Henderson, Albert, Jersey City, N. J. Napkin-holder. No. 1,336,744; Apr. 13; v. 273; p. 257.

Henderson, Clark T., assignor to Niagara Smelting Corporation, Niagara Falls, N. Y. Chlorin liquefaction. No. 1,338,654; Apr. 27; v. 273; p. 762.

Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method and means for shaping rolls and the like. No. 1,338,178; Apr. 27; v. 273; p. 673.

Henderson, Henry, Halstad, Minn. Shock-loader. No. 1,338,369; Apr. 27; v. 273; p. 709.

Henderson, William A., Larchmont, N. Y. Window-support. No. 1,338,445; Apr. 27; v. 273; p. 723.

Henderson, William A., Larchmont, assignor to Holbrook Company, New York, N. Y. Vehicle-top. No. 1,338,446; Apr. 27; v. 273; p. 723.

Hendey Machine Company. (See Bouillon, Constant, assignor.)

Hendler, Max. (See Ershler, L. H., and Hendler.)

Hendricks, Benjamin L., Macon, Ga. Locking device. No. 1,338,131; Apr. 27; v. 273; p. 664.

Henley's, W. T., Telegraph Works Company. (See Grover, Charles, assignor.)

Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellent powder and making same. No. 1,336,463; Apr. 13; v. 273; p. 203.

Henning, Sherburne B. (See Sponsler, O. L., Dunlap and Henning.)

Henriksen, Lars J., Kåflinge, Sweden. Machine for joining of pieces of leather. No. 1,337,069; Apr. 13; v. 273; p. 320.

Henry, Eugene E., Stockton, Calif. Hacksaw-grinder. No. 1,336,959; Apr. 13; v. 273; p. 298.

Henry, Louis L., Toulon, France. Automatic stabilizing apparatus. No. 1,335,893; Apr. 6; v. 273; p. 36.

Henry, William J., Akron, Ohio. Device for mechanically aiding the hand in writing. No. 1,336,432; Apr. 13; v. 273; p. 197.

Henschel, Charles J., Brooklyn, N. Y. Electrically-operated vibratory motor. No. 1,336,519; Apr. 13; v. 273; p. 213.

Hensley, Bird E., assignor of one-half to C. W. Meeker, Salem, Oreg. Bridle-bit. No. 1,335,964; Apr. 6; v. 273; p. 49.

Heppes, Otto A., Chicago, Ill., and C. E. Rahr, Brookline, Mass. Making prepared roofing. No. 1,338,624; Apr. 27; v. 273; p. 756.

Herbrand Company, The. (See Glebel, J., and Zimmerman, assignors.) (Reissue.)

Herbst, William B., Columbus, Ind. Wind-shield screen. No. 1,337,472; Apr. 20; v. 273; p. 469.

Hercules Manufacturing Company. (See Berkeley, Laurence J., assignor.)

Herlenius, Jonas, Brooklyn, assignor to Hamilton & Hansell, Inc., New York, N. Y. Electric furnace. No. 1,338,631; Apr. 27; v. 273; p. 757.

Herman, Jacob E., *et al.* (See Kuhn, Adam M., assignor.)

Herman, Samuel J., and C. M. MacKenzie, assignors to Diamond Power Specialty Company, Detroit, Mich. Boiler-tube cleaner. No. 1,337,557; Apr. 20; v. 273; p. 485.

Hernandez y Perez, Francisco, Habana, Cuba. Lubricated hinge. No. 1,338,251; Apr. 27; v. 273; p. 687.

Hersee, Frederick C., Boston, Mass. Timer. No. 1,338,015; Apr. 27; v. 273; p. 642.

Hershey, Harry E., Whitewater, Kans., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,338,370; Apr. 27; v. 273; p. 709.

Hertner Electric Company, The. (See Hertner, John H., assignor.)

Hertner, John H., Lakewood, assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio. Protecting means for dynamo-electric machines. No. 1,336,520; Apr. 13; v. 273; p. 213.

Herz, Alfred, assignor of one-half to Edmund O. Schweitzer, Chicago, Ill. Fuse device. (Reissue.) No. 14,844; Apr. 20; v. 173; p. 568.

Herzog, Soma, New York, N. Y. Hobby-horse or similar article. No. 1,338,448; Apr. 27; v. 273; p. 723.

Herzog, Soma, New York, N. Y. Toy. No. 1,338,449; Apr. 27; v. 273; p. 724.

Hess, Michael, Indianapolis, Ind., assignor to International Printing Company. Box-forming machine. No. 1,335,735; Apr. 6; v. 273; p. 6.

Hessler, John O. (See Richer, J. R., and Hessler.)

Hestley, Walter W., Greensboro, N. C. Loom picker-stick check. No. 1,337,070; Apr. 13; v. 273; p. 320.

Heywood Brothers and Wakefield Company. (See Lang, E. C., and Van Derveer, assignors.)

Hickey, Timothy W., Abington, Mass. Hinge. No. 1,336,780; Apr. 13; v. 273; p. 264.

Hien, Phillip, assignor of one-eighth to T. F. Sheridan and one-eighth to G. L. Wilkinson, Chicago, Ill. Shock-absorber. No. 1,338,371; Apr. 27; v. 273; p. 709.

Hilbish, John E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,337,976; Apr. 20; v. 273; p. 566.

Hilger, Anthony J., Milwaukee, and R. Urchniak, West Allis, Wis. Vehicle signaling device. No. 1,338,078; Apr. 27; v. 273; p. 654.

Hilk, William A. (See Tranmer, Fred, assignor.)

Hill, Arthur H. (See Farquhar, Moubray G., and Hill.)

Hill, Charles W., Forest City, Ill. Rail-clamp. No. 1,338,450; Apr. 27; v. 273; p. 724.

Hill, John G., Chattanooga, Tenn. Rail plate and fastener. No. 1,338,016; Apr. 27; v. 273; p. 642.

Hill, Melvin E., Los Angeles, Calif. Match-lighter. No. 1,336,698; Apr. 13; v. 273; p. 248.

Hill Pump Valve Company. (See Reich, Ernest, assignor.)

Hillard, Frederic W., Totteuville, N. Y., assignor of one-half to M. R. Hillard, Middlebury, Conn. Typewriter. No. 1,337,977; Apr. 20; v. 273; p. 566.

Hillard, Mary R. (See Hillard, Frederic W., assignor.)

Hilton, Fred, Manchester, England. Coin-freed-stamping apparatus. No. 1,336,960; Apr. 13; v. 273; p. 298.

Himes, Burnie L., Brasfield, Ark. Loading and unloading device. No. 1,337,356; Apr. 20; v. 273; p. 448.

Hinnard, Oscar H. (See Nelson, A., and Hinnard.)

Hinton, U. S. G. (See Rice, Orrin, assignor.)

Hirschy, Herman C., Minneapolis, Minn. Washing-machine. No. 1,336,781; Apr. 13; v. 273; p. 264.

Hirst, Franklin G., Philadelphia, Pa. Trap. No. 1,338,079; Apr. 27; v. 273; p. 654.

Hitchcock, Halbert K., Pittsburgh, Pa. Apparatus for applying abrasives to grinding and smoothing mechanism. No. 1,336,521; Apr. 13; v. 273; p. 213.

Hjorth, Oscar B., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer-magnet drive. No. 1,335,833; Apr. 6; v. 273; p. 24.

Hoadley, Alfred H., New York, N. Y. Ignition device. No. 1,338,625; Apr. 27; v. 273; p. 756.

Hobart, Franklin G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine-feeding device. No. 1,337,770; Apr. 20; v. 273; p. 526.
Hobart, Franklin G., and Charles B. Jahnke, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine. No. 1,337,771; Apr. 20; v. 273; p. 527.
Hobart, Henry M. (See Stone, C. W., and Hobart.)
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,071; Apr. 13; v. 273; p. 320.

Hoddle, Charles, Westminster, London, assignor of one-half to Thorn & Hoddle Acetylene Company, Limited, Westminster, London, England. Work-holder. No. 1,336,229; Apr. 6; v. 273; p. 99.
Hodge, George H., and J. C. Robinson, London, England. Baker's oven. No. 1,337,909; Apr. 20; v. 273; p. 553.
Hodges, Earl H., Killam, Alberta, Canada. Non-skid chain. No. 1,338,626; Apr. 27; v. 273; p. 756.
Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Governing mechanism for compound engines. No. 1,337,176; Apr. 13; v. 273; p. 339.
Hodgson, William, New York, N. Y. Fluid-temperature regulator. No. 1,337,701; Apr. 20; v. 273; p. 513.
Hodgson, William, New York, N. Y. Regulator. No. 1,338,080; Apr. 27; v. 273; p. 655.
Hodgson, William, New York, N. Y. Regulator. No. 1,338,081; Apr. 27; v. 273; p. 655.
Hoe, R., and Co. (See Sheldon, Edward P., assignor.)
Hoecker, Albert C., Collinsville, Ill. Contractor-expander. No. 1,337,652; Apr. 20; v. 273; p. 503.
Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,227; Apr. 20; v. 273; p. 423.

Hoffman, Harry and L., Philadelphia, Pa. Water connection for automobiles. No. 1,337,228; Apr. 20; v. 273; p. 423.
Hoffman, Louis. (See Hoffman, Harry and L.)
Hoffmann, Fredrick, Louisville, Ky. Mattress. No. 1,335,965; Apr. 6; v. 273; p. 50.
Hoffmann-La Roche Chemical Works, The. (See Court, Georges T., assignor.)
Hofmeister, Leo, Milwaukee, Wis. Automobile-tire. No. 1,336,139; Apr. 6; v. 273; p. 82.
Hofto, Theona K. (See Loyland, Betsie K., assignor.)
Hogan, Jay J., Erie, Pa. Priming device. No. 1,337,772; Apr. 20; v. 273; p. 527.
Hohmeister, Arthur, assignor to The John Douglas Company, Cincinnati, Ohio. Ball-cock. No. 1,338,179; Apr. 27; v. 273; p. 673.
Holland, Albert, Fargo, N. D. Automatic reversible fan for explosive-engines. (Reissue.) No. 14,838; Apr. 13; v. 273; p. 340.
Holbrook Company. (See Henderson, William A., assignor.)
Holcomb and Hoke M'f'g Co. (See Tripp, Charles A., assignor.)
Holden, Edward R., Los Angeles, Calif. Electrochemical precipitation of metals. (Reissue.) No. 14,849; Apr. 27; v. 273; p. 764.
Holdorf, William H., Minneapolis, Minn. Fuse-indicator. No. 1,337,357; Apr. 20; v. 273; p. 448.
Holifield, Joseph A., Mobile, Ala. Arc-current regulator. No. 1,338,301; Apr. 27; v. 273; p. 696.
Holle, Alexander A., London, England. Aerofoil for aeroplanes and the like. No. 1,337,515; Apr. 20; v. 273; p. 477.
Holloway, Madge M., Montgomery, Ala. Means for advertising quarters, lodgings, or the like. No. 1,338,135; Apr. 27; v. 273; p. 665.
Holloway, William M., Austin, assignor to Charles W. Shonk Company, Chicago, Ill. Adding-machine. No. 1,337,599; Apr. 20; v. 273; p. 493.
Holm, Christian, Bowman, N. D. Expansible core. No. 1,337,910; Apr. 20; v. 273; p. 553.
Holmes, Albert B., and T. M. Dugan, McKeesport, Pa. Spray-valve. No. 1,337,516; Apr. 20; v. 273; p. 478.
Holmes, Chester H. (See Mummelthy, F., and Holmes.)
Holmes, Edward L., assignor to Printing Trades Manufacturing Company, Seattle, Wash. Linotype-mold. No. 1,337,358; Apr. 20; v. 273; p. 448.
Holmes, James S., assignor to James Spicer and Sons Limited, London, England. Apparatus for winding paper cardboard and like tubes. No. 1,335,894; Apr. 6; v. 273; p. 36.
Holmquist, John A. (See O'Neil, D., Holmquist, and Free, assignors.)
Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. No. 1,336,961; Apr. 13; v. 273; p. 298.
Holtvoigt, Henry B., Dayton, Ohio. Kite and making same. No. 1,337,403; Apr. 20; v. 273; p. 456.
Holzbauer, Albert J. (See Sebald, George J., assignor.)
Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Magazine for typographical machines. No. 1,338,627; Apr. 27; v. 273; p. 757.

Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,338,628; Apr. 27; v. 273; p. 757.
Honda, Kotaro, Yonega-Fukuro, Sendai, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan. Magnet-steel. No. 1,338,132; Apr. 27; v. 273; p. 664.
Honda, Kotaro, Yonega-Fukuro, Sendai, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan. Magnet-steel. No. 1,338,133; Apr. 27; v. 273; p. 665.
Honda, Kotaro, Yonega-Fukuro, Sendai, assignor to Sumitomo Chukosho, Ltd., Osaka, Japan. Magnet-steel. No. 1,338,134; Apr. 27; v. 273; p. 665.
Hood, Carlyle E., Memphis, Tenn. Fountain-pen. No. 1,338,629; Apr. 27; v. 273; p. 757.
Hoofnagle, Charles H., Laporte, Ind. Thread-holder. No. 1,336,903; Apr. 13; v. 273; p. 288.
Hooper, Harry L. (See Blanton, R. H., and Hooper.)
Hoover, Edward M., assignor to The Hoover Manufacturing Company, Anderson, Ind. Lathe-center. No. 1,338,451; Apr. 27; v. 273; p. 724.
Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Suction-cleaner. No. 1,336,078; Apr. 6; v. 273; p. 71.
Hoover Manufacturing Company, The. (See Hoover, Edward M., assignor.)
Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
Hoover, Thomas A., Fresno, Calif. Tire-carrier. No. 1,337,911; Apr. 20; v. 273; p. 553.
Hopkins, Hubert, assignor to Moon-Hopkins Billing Machine Co., St. Louis, Mo. Calculating-machine. No. 1,336,904; Apr. 13; v. 273; p. 288.
Hopkins, Walter G., Buffalo, N. Y., and F. J. Sullivan, assignors to Atlas Bread Company, Boston, Mass. Baker's oven. No. 1,336,782; Apr. 13; v. 273; p. 264.
Horgan, Patrick J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,337,229; Apr. 20; v. 273; p. 423.
Horning, Harry L., assignor to Waukesha Motor Co., Waukesha, Wis. Internal-combustion engine. No. 1,338,342; Apr. 27; v. 273; p. 704.
Horrocks, Henry H., assignor to William Horrocks & Son, Philadelphia, Pa. Tire-carrier. No. 1,338,630; Apr. 27; v. 273; p. 757.
Horrocks, William, & Son. (See Horrocks, Henry H., assignor.)
Horsman, William H., assignor of one-fourth to C. Bancroft, San Francisco, Calif. Slug-lock. No. 1,335,966; Apr. 6; v. 273; p. 50.
Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,335,834; Apr. 6; v. 273; p. 24.
Horton, Bryson D., Detroit, Mich. Service and meter-test system and associated apparatus. No. 1,338,180; Apr. 27; v. 273; p. 673.
Horton Manufacturing Company, The. (See Thorpe, Samuel T., assignor.)
Hosch, Annie M., administratrix. (See Hosch, Walter E.)
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to Measuregraph Company, St. Louis, Mo. Fabric measuring and computing machine. No. 1,336,230; Apr. 6; v. 273; p. 99.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Carriage for counter attachment. No. 1,336,231; Apr. 6; v. 273; p. 100.
Hoseless Sprinkler Company, The. (See Moise, Harmon D., assignor.)
Hostler, Edgar D., Tipton, Iowa, assignor of one-half to Hamiel & Mather. Vulcanizer. No. 1,338,569; Apr. 27; v. 273; p. 746.
Hoting, Hans C., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Control mechanism for pressing-machines. No. 1,335,835; Apr. 6; v. 273; p. 25.
Houghton, Frank B. (See Cobb, Arthur, assignor.)
Houleban, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of lower-boiling hydrocarbons from higher-boiling hydrocarbons. No. 1,337,317; Apr. 20; v. 273; p. 441.
Howard, A. B., *et al.* (See Nesmith, Ralph A., assignor.)
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,337,702; Apr. 20; v. 273; p. 513.
Howard, Emmett M., Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa. Combined phonographic-disk-record and talking-machine cabinet. No. 1,335,967; Apr. 6; v. 273; p. 50.
Howard, Raymond M., Detroit, Mich. Variable-pitch propeller. No. 1,337,133; Apr. 13; v. 273; p. 331.
Howard, William S., Huzlehurst, Miss. Toilet-paper holder. No. 1,336,140; Apr. 6; v. 273; p. 83.
Howden, James, & Company. (See Hume, James H., assignor.)
Howell, Samuel M., Zanesville, Ohio. Metallurgical furnace. No. 1,337,703; Apr. 20; v. 273; p. 513.
Hoyt, Daniel, East Orange, assignor to The National Lock Washer Company, Newark, N. J. Curtain-fixture. No. 1,335,968; Apr. 6; v. 273; p. 50.
Hoyte, Edward B., Nashville, Tenn. Control device for internal-combustion engines. No. 1,338,017; Apr. 27; v. 273; p. 643.
Huber Mfg. Co. (See Crane, Henry H., assignor.)
Hubshman, Louis. (See Morgan, William J., assignor.)
Hudson, Charles H. (See Pinkerton, Edward E., assignor.)

Hudson, George W., Lancaster, Ohio. Combined table and ironing-board. No. 1,336,433; Apr. 13; v. 273; p. 197.
Hudson Motor Specialties Company. (See Hudson, William F., assignor.)
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Radius-rod truss. No. 1,336,353; Apr. 6; v. 273; p. 123.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Muffler attachment for motor-vehicles. No. 1,336,354; Apr. 6; v. 273; p. 123.
Hughes, Emily W., administratrix. (See Hughes, Johnson.)
Hughes, Henry A., London, and T. Y. Baker, Slough, England. Sextant. No. 1,337,912; Apr. 20; v. 273; p. 553.
Hughes, James W., Haddon Heights, N. J., assignor to Hughes-Lippincott Company. Coin-controlling register. No. 1,336,628; Apr. 13; v. 273; p. 234.
Hughes, Johnson, deceased; E. W. Hughes, administratrix, Philadelphia, Pa. Electrode-holder. No. 1,335,895; Apr. 6; v. 273; p. 36.
Hughes-Lippincott Company. (See Hughes, James W., assignor.)
Hughes, Morris E., Clare, Iowa. Vehicle lifter or jack. No. 1,335,969; Apr. 6; v. 273; p. 50.
Hull, George S., Columbus, Ind. Quick-setting mechanism. No. 1,336,839; Apr. 13; v. 273; p. 275.
Hult, Rolf H., Hyltebruk, Sweden. Boiling indirectly. No. 1,337,704; Apr. 20; v. 273; p. 514.
Hultenheim, Fredrik G., San Francisco, Calif. Fluid-brake for motor-vehicles. No. 1,338,302; Apr. 27; v. 273; p. 696.
Humason, Granville A., Houston, Tex., assignor to Humason Roller Bit Company. Drill-bit. No. 1,337,913; Apr. 20; v. 273; p. 553.
Humason Roller Bit Company. (See Humason, Granville A., assignor.)
Humbert, Richard E., Montclair, N. J. Toy. No. 1,336,434; Apr. 13; v. 273; p. 197.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Steam-generator fitted with superheater. No. 1,337,653; Apr. 20; v. 273; p. 503.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace. No. 1,338,136; Apr. 27; v. 273; p. 665.
Humm, Hans, Brooklyn, N. Y. Match-container. No. 1,335,970; Apr. 6; v. 273; p. 51.
Humphreys, Charles A., Bluefield, W. Va., assignor to Pittsburgh Filter Manufacturing Company, Pittsburgh, Pa. Loss-of-head gage. No. 1,338,504; Apr. 27; v. 273; p. 734.
Hunsinger, John, Sr., assignor to A. M. Leibowitz, Detroit, Mich. Sinew and tendon extracting device. No. 1,338,452; Apr. 27; v. 273; p. 724.
Hunt, Henry, Devon, and R. Schaab, Bridgeport, assignor of one-third to P. F. Zeidler, Bridgeport, Conn. Bottle opener and closer. No. 1,338,224; Apr. 27; v. 273; p. 682.
Hunter Gas Engine and Development Company, The. (See Kershaw, Edwin T., assignor.)
Huntley Manufacturing Co. (See Morse, Theodore F., assignor.)
Hunzicker, Walter W., Mansfield, Ohio. Method and apparatus for preventing and removing obstructions in fluid-pressure systems. No. 1,336,905; Apr. 13; v. 273; p. 288.
Hunzicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Slack-adjuster. No. 1,336,522; Apr. 13; v. 273; p. 214.
Hupp, Irvin, assignor to Flexo Motive Corporation, Chicago, Ill. Transmission mechanism. No. 1,338,303; Apr. 27; v. 273; p. 696.
Hurford, Ross H., Canton, Ohio. Ice-cutting machine. No. 1,336,563; Apr. 13; v. 273; p. 222.
Hutchinson, Joseph. (See Hamilton, Clifford C., assignor.)
Hutt, Leonard E., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,337,072; Apr. 13; v. 273; p. 320.
Hyde, Frank, Sioux Falls, S. D. Shaving-brush. No. 1,335,896; Apr. 6; v. 273; p. 36.
Hyden, William, Kingston, W. Va. Truck. No. 1,337,914; Apr. 20; v. 273; p. 554.
Hydraulic Clutch Company. (See Jessen, Arnold H., assignor.)
Hydraulic Pressed Steel Company, The. (See Klaus, Fred R., assignor.)
Hydraulic Pressed Steel Company, The. (See Staples, Edward C., assignor.)
Hyland, Edward E., Chicago, Ill. Transfer-ticket. No. 1,338,018; Apr. 27; v. 273; p. 643.
Hyszka, Maty, Myrtle Point, British Columbia, Canada. Ship-salvage device. No. 1,337,601; Apr. 20; v. 273; p. 494.
Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Piercing punch and die. No. 1,338,082; Apr. 27; v. 273; p. 655.
Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Method and apparatus for cutting left-handed threads. No. 1,338,083; Apr. 27; v. 273; p. 655.
Icy-Hot Bottle Company, The (See Altenberg, George P., assignor.)

Ihrcke, Frank A. (See Johnston, G. S., Ihrcke, and Partenheimer.)
Ihrcke, Frank A., Chicago, Ill. Goggles and the like. No. 1,338,505; Apr. 27; v. 273; p. 735.
Illinois Tool Works. (See Olson, Carl G., assignor.)
India Rubber Company. (See Foley, William V., assignor.)
Indiana Veneer and Panel Company. (See Ruoff, John, assignor.)
Individual Drinking Cup Company. (See Hammond, W. P., and Luellen, assignors.)
Individual Drinking Cup Company. (See Luellen, Lawrence W., assignor.)
Industrial Chemical Company. (See Randall, James W. H., assignor.)
Industrial Research Corporation. (See Belden, Edward H., assignor.)
Industrial Research Corporation. (See Belden, Eduard H., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingle, Arthur H. (See Trosch, Alfred, assignor.)
Ingraham, E., Company, The. (See Crouch, W. L., and Rust, assignors.)
International Cork Company. (See Allatt, Thomas, assignor.)
International Harvester Company. (See Cady, Sherman W., assignor.)
International Harvester Company. (See Dwyer, William C., assignor.)
International Precipitation Company. (See Schmidt, Walter A., assignor.)
International Precipitation Company. (See Welch, Harry V., assignor.)
International Printing Company. (See Hess, Michael, assignor.)
International Telephone Co. (See Hastings, Ruben C. M., assignor. (Reissue.)
International Time Recording Company of New York. (See Larrabee, Clinton E., assignor.)
Interstate Oil and Equipment Corporation. (See Carden, David A., assignor.)
Intertype Corporation. (See Homans, Thomas S., assignor.)
Ireland, Robert H., Brooklyn, N. Y. Parlor baseball-game. No. 1,337,773; Apr. 20; v. 273; p. 527.
Irenius, Joseph V., Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y. Mechanical toy. No. 1,337,705; Apr. 20; v. 273; p. 514.
Ironside, Edward A., London, England. Pliers. No. 1,336,464; Apr. 13; v. 273; p. 203.
Irwin, Howard W., and W. K. Hawk, Philadelphia, Pa. Theft-detecting means for vehicles. No. 1,336,745; Apr. 13; v. 273; p. 257.
Isaacs, Moses, New York, N. Y. Cloth-laying machine. No. 1,338,570; Apr. 27; v. 273; p. 746.
Isachson, Norman, Albion, Idaho. Timer attachment. No. 1,336,296; Apr. 6; v. 273; p. 112.
Isko Company, The. (See Wolf, Fred W., assignor.)
Isler, Max. (See Jagerspacher, C., and Isler.)
Isliker, Albert, assignor of one-half to Motosacoche Société Anonyme, Geneva, Switzerland. Two-stroke internal-combustion engine. No. 1,336,232; Apr. 6; v. 273; p. 100.
Ives, Minnie A. P. (See Boardman, Solomon, assignor.)
Ives, Minnie P., administratrix, *et al.* (See Boardman, Solomon.)
Ivey, John D. C., Fitzgerald, Ga. Brake. No. 1,336,435; Apr. 13; v. 273; p. 198.
Ivory, James W., Philadelphia, Pa. Tobacco-pipe. No. 1,336,233; Apr. 6; v. 273; p. 100.
Ivory, James W., Philadelphia, Pa. Rubber-dam-clamp appliance. No. 1,336,746; Apr. 13; v. 273; p. 257.
Izquierdo, Juan M., Habana, Cuba. Filtering apparatus. No. 1,337,517; Apr. 20; v. 273; p. 478.
J and B Manufacturing Company. (See Jacobson, Edward B., assignor.)
Jackson, Corwill, Kalamazoo, Mich. Drilling, riveting, and like machine. No. 1,338,019; Apr. 27; v. 273; p. 643.
Jackson Fence Company. (See Mills, Anson C., assignor.)
Jackson, George E., assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio. Belt-shifter. No. 1,335,736; Apr. 6; v. 273; p. 6.
Jackson, Oscar, assignor of forty-eight one-hundredths to O. E. Newman, Danville, Ill. Railway-signal. No. 1,338,632; Apr. 27; v. 273; p. 758.
Jackson, Walter C., Denver, Colo. Ironing-board fastener. No. 1,337,073; Apr. 13; v. 273; p. 320.
Jacob, Julius, *et al.* (See Gardner, William E., assignor.)
Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)
Jacobs, George, and F. C. Ruppel, Detroit, Mich. Signal-lamp. No. 1,337,230; Apr. 20; v. 273; p. 424.
Jacobs, George S., assignor to Standard Detroit Tractor Co., Detroit, Mich. Tractor attachment for automobiles. No. 1,335,836; Apr. 6; v. 273; p. 25.
Jacobson, Charles E. (See Loring, W. C., and Jacobson.)
Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Induction-coil. No. 1,335,837; Apr. 6; v. 273; p. 25.
Jacques, George L., Neillsville, Wis. Power transmission. No. 1,336,747; Apr. 13; v. 273; p. 257.

Jagerspacher, Carl, and M. Isler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Disazodyestuffs dyeing mordanted fibers. No. 1,338,506; Apr. 27; v. 273; p. 735.

Jahnke, Charles B. (See Hobart, F. G., and Jahnke.)

Jahns, William, Marathon, Wis. Grain-bag holder. No. 1,337,134; Apr. 13; v. 273; p. 331.

James, William A., Providence, R. I. Hair-trimmer. No. 1,338,507; Apr. 27; v. 273; p. 735.

Jamison, Frank L., Pittsburgh, Pa. Ingot-casting device. No. 1,336,234; Apr. 6; v. 273; p. 100.

Janesville Products Company. (See Benson, Andrew, assignor.)

Jankower, David, New York, N. Y. Disk typewriter. No. 1,337,318; Apr. 20; v. 273; p. 441.

Jardine, James C., and J. Dickie, Summerside, Prince Edward Island, Canada. Shoe. No. 1,336,355; Apr. 6; v. 273; p. 123.

Jarvis, Edward H. (See Groves, C. D., Jarvis, and Bradbury.)

Jarvis, Herbert C., Renton, assignor to Pacific Car & Foundry Co., Seattle, Wash. Brake-operating means for trailers. No. 1,336,235; Apr. 6; v. 273; p. 100.

Jasina, John, Detroit, Mich. Telephone-reminder. No. 1,337,319; Apr. 20; v. 273; p. 441.

Jeannotte, Charles E., Montreal, Quebec, Canada. Waterheater. No. 1,337,473; Apr. 20; v. 273; p. 469.

Jefferies, Charlie Q., Fort Worth, Tex. Rotary engine. No. 1,338,304; Apr. 27; v. 273; p. 697.

Jeffries, John H. (See Doherty, E. M., and Jeffries.)

Jeffries, Oscar S., Sr., assignor to J. B. Miller, Philadelphia, Pa. Variable-speed, mechanism. No. 1,337,602; Apr. 20; v. 273; p. 494.

Jenckes, Lawrence B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-bobbin. No. 1,337,706; Apr. 20; v. 273; p. 514.

Jenkins, David W., Seattle, Wash., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Detachable-tooth saw. No. 1,337,016; Apr. 13; v. 273; p. 309.

Jenkins, Jennie A., executrix. (See Jenkins, Thomas W.)

Jenkins, Thomas W., deceased, Philadelphia, Pa.; J. A. Jenkins executrix. Elevator interlocking device. No. 1,336,748; Apr. 13; v. 273; p. 257.

Jennings, Emerson P., Lehighton, Pa. Gripping device for sheets of paper and the like. No. 1,337,231; Apr. 20; v. 273; p. 424.

Jennings, Myron A., Santa Cruz, Calif. Die for power-hammers. No. 1,337,474; Apr. 20; v. 273; p. 470.

Jennings, Oliver S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mechanical rectifier and means for improving the operation of the same. No. 1,336,564; Apr. 13; v. 273; p. 222.

Jensen, George C., Oakland, Calif. Lock, retainer, and interlock for shifter devices. No. 1,337,654; Apr. 20; v. 273; p. 504.

Jensen, Karl K., Berkeley, Calif. Portable bath-shower. No. 1,336,034; Apr. 6; v. 273; p. 63.

Jensen, Olaf. (See Bergve, E., and Jensen.)

Jessen, Arnold H., assignor to Hydraulic Clutch Company, Los Angeles, Calif. Variable-speed power-transmitting device. No. 1,336,749; Apr. 13; v. 273; p. 258.

Jester, Ernest R., Walton, N. Y. Plastic mold. No. 1,337,074; Apr. 13; v. 273; p. 320.

Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. No. 1,337,915; Apr. 20; v. 273; p. 554.

Johantgen, Oliver D., assignor, by mesne assignments, to The Victor Adding Machine Company, Chicago, Ill. Listing-machine. No. 1,336,840; Apr. 13; v. 273; p. 275.

Johnson, Adolph, Battle Creek, Mich. Cereal cooker and sterilizer. No. 1,336,079; Apr. 6; v. 273; p. 71.

Johnson, Alvin L., and A. O. Alsten, assignors of one-fourth to H. C. Goulding and one-fourth to J. A. Alsten, Worcester, Mass. Pneumatic core for use in repairing tires. No. 1,337,707; Apr. 20; v. 273; p. 514.

Johnson, Ambrose L. (See Hembree, S. S., and Johnson.)

Johnson, Bennett L. (See Allen, Rodney D., assignor.)

Johnson, Charles H., Colony, Kans. Flytrap. No. 1,338,084; Apr. 27; v. 273; p. 655.

Johnson, Charles O., Worcester, Mass. Apparatus for drawing and straightening wire. No. 1,338,453; Apr. 27; v. 273; p. 724.

Johnson, Eugene M., Portland, Oreg. Fish-trap. No. 1,336,356; Apr. 6; v. 273; p. 123.

Johnson, Felix G., Clarinda, Iowa, assignor of one-half to M. E. Johnson. Stock-watering tank. No. 1,337,075; Apr. 13; v. 273; p. 321.

Johnson, George M., McDonald, Pa. Car-check. No. 1,338,225; Apr. 27; v. 273; p. 682.

Johnson, Gustaf A., assignor of one-half to R. M. Olmsted, Manteca, Calif. Reinforced-concrete building-block. No. 1,338,509; Apr. 27; v. 273; p. 735.

Johnson, Herluf G., Portland, Oreg. Key-ring. No. 1,338,085; Apr. 27; v. 273; p. 656.

Johnson, Jacob T., Atlanta, Ga. Combination-faucet. No. 1,336,236; Apr. 6; v. 273; p. 101.

Johnson, John, New York, N. Y. Door. No. 1,335,838; Apr. 6; v. 273; p. 25.

Johnson, Lawrence E., assignor to M. S. Johnson, Melrose, Mass. Lifting-jack. No. 1,336,906; Apr. 13; v. 273; p. 288.

Johnson, Martha E. (See Johnson, Felix G., assignor.)

Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)

Johnson, Melvin A., Tenstrike, Minn. Pitman-protector for harvesting-machines. No. 1,335,897; Apr. 6; v. 273; p. 36.

Johnson, Robert W., and J. Bloom, Blue Island, Ill. Sprinkler. No. 1,336,699; Apr. 13; v. 273; p. 248.

Johnson Service Company. (See Otto, Arthur J., assignor.)

Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,337,135; Apr. 13; v. 273; p. 331.

Johnston, Frank H., and J. C. Christensen, Indianapolis, Ind. Pulley and like element. No. 1,337,136; Apr. 13; v. 273; p. 332.

Johnston, George S., Company. (See Johnston, G. S., Ihrcke, and Partenheimer, assignors.)

Johnston, George S., Evanston, and F. A. Ihrcke and C. A. Partenheimer, Chicago, Ill., assignors to George S. Johnston Company, Chicago, Ill. Goggles. No. 1,338,508; Apr. 27; v. 273; p. 735.

Johnston, George W., Jr., Rathmel, Pa. Burner-tip cleaner. No. 1,338,633; Apr. 27; v. 273; p. 758.

Johnston, James S., Utica, N. Y. Machine-gun. No. 1,335,839; Apr. 6; v. 273; p. 25.

Johnston, Millard L., Utica, N. Y. Gun-mount. No. 1,337,359; Apr. 20; v. 273; p. 448.

Johnston, William H., Raleigh, N. C. Portable fireplace heating-stove. No. 1,336,700; Apr. 13; v. 273; p. 248.

Jones, Frank, Salt Lake City, Utah. Beet screening, piling, and loading machine. No. 1,336,297; Apr. 6; v. 273; p. 112.

Jones, Frank E., administrator. (See Jones, Harry W.)

Jones, Frank M., Boston, Mass. Dough-mixing machine. No. 1,335,737; Apr. 6; v. 273; p. 6.

Jones, Harry W., deceased, Independence; F. E. Jones, administrator, assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining mineral oils. No. 1,336,357; Apr. 6; v. 273; p. 123.

Jones, James E. (See Demorest, Edmurn L., assignor.)

Jones, Joseph W. (See Montague, Merrell S., assignor.)

Jones and Laughlin Steel Company. (See O'Neil, D. Holmquist, and Free, assignors.)

Jones, Leonard W. (See Bell, W. T., Watson, and Jones.)

Jones, Owen M., New York, N. Y. Fluid-pressure-operated controller. No. 1,335,898; Apr. 6; v. 273; p. 37.

Jones, Robert F., Eastport, Me., assignor to W. Waltke & Co., St. Louis, Mo. Machine for boxing sardine-cans and the like. No. 1,337,404; Apr. 20; v. 273; p. 457.

Jones, Sidney P., Waco, Tex. Rotary cutting device for razors. No. 1,338,305; Apr. 27; v. 273; p. 697.

Jones, Whitman G., Great Falls, Mont. Sidewalk-plow. No. 1,337,076; Apr. 13; v. 273; p. 321.

Jones, William E., assignor of one-half to C. S. Williams, Ellisville, Miss. Swingletree. No. 1,335,971; Apr. 6; v. 273; p. 51.

Jones, William H. (See Davies, J., Jones, and Hale.)

Jordan, Linwood F., Portland, Me. Vehicle-wheel. No. 1,338,634; Apr. 27; v. 273; p. 758.

Jordan, Wesley E., Erie, Pa. Top plate for stoves. No. 1,337,774; Apr. 20; v. 273; p. 527.

Joseph, Frank A., New Haven, Conn., assignor to L. Candee & Co. Rubber shoe. No. 1,336,962; Apr. 13; v. 273; p. 299.

Joseph, Orville E., Moose Jaw, Saskatchewan, Canada. Road recorder and indicator. No. 1,336,907; Apr. 13; v. 273; p. 289.

Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,336,298; Apr. 6; v. 273; p. 112.

Jourdan, Mason F., Muskogee, Okla. Camera-tripping device. No. 1,337,603; Apr. 20; v. 273; p. 494.

Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Railway-car. No. 1,336,436; Apr. 13; v. 273; p. 198.

Juhl, Peter C., New York, N. Y. Combination tractor and repeller. No. 1,337,841; Apr. 20; v. 273; p. 539.

Julian, Gideon J., Beverly, Mass., assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me. Shoe-finishing tool. No. 1,335,786; Apr. 6; v. 273; p. 16.

Julinsen, Hans, Chicago, Ill. Centrifugal pump. No. 1,337,916; Apr. 20; v. 273; p. 554.

Jungers, John, Grafton, Wis. Firepot for ranges. No. 1,337,604; Apr. 20; v. 273; p. 494.

Jungers, John, Grafton, Wis. Stove-trimming. No. 1,337,605; Apr. 20; v. 273; p. 495.

Jungner, Ernst W., Kneippbaden, Sweden. Manufacturing simultaneously hydraulic cement and alkali from alkaliferous mineral substances and lime. No. 1,338,021; Apr. 27; v. 273; p. 643.

Juresisin, George, Wilkes-Barre, Pa. Air-drill. No. 1,338,137; Apr. 27; v. 273; p. 665.

Juricich, Josip, Pittsburgh, Pa. Self-leveling basket for aeroplanes. No. 1,336,702; Apr. 13; v. 273; p. 249

Just, Alvah L., Syracuse, N. Y. Dust-cap. No. 1,337,606; Apr. 20; v. 273; p. 495

Jyrkas, Oscar L., New York Mills, Minn. Horse-detacher and vehicle-lock. No. 1,338,138; Apr. 27; v. 273; p. 665.

Kahlenberg Bros. Co. (See Kahlenberg, William R., assignor.)

Kahlenberg, William R., assignor to Kahlenberg Bros. Co., Two Rivers, Wis. Fluid-filter. No. 1,335,899; Apr. 6; v. 273; p. 37.

Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater. No. 1,337,708; Apr. 20; v. 273; p. 514.

Kalamazoo Loose Leaf Binder Co. (See Wigginton, George P., assignor.)

Kalamazoo Tank Silo Company. (See Youmans, George P., assignor.)

Kalkbrenner, George, Marion, Ohio. Identification device. No. 1,338,181; Apr. 27; v. 273; p. 673.

Kalmus Comstock & Westcott. (See Wall, Edward J., assignor.)

Kammerer, Firm of Fr. (See Trunk, Rudolf, assignor.)

Kammerich, Andrew, Syracuse, Mo., assignor to Kammerich Manufacturing Company. Armored fixture. No. 1,338,372; Apr. 27; v. 273; p. 710.

Kammerich Manufacturing Company. (See Kammerich, Andrew, assignor.)

Kansas City Gasoline Company, The. (See Jones, Harry W., assignor.)

Kansas City Gasoline Company, The. (See Wellman, F. E., and Sibley, assignors.)

Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)

Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)

Kaplan, Henry, San Francisco, Calif. Switch face-plate and lock. No. 1,337,137; Apr. 13; v. 273; p. 332.

Kaplan, Nathan, Covington, Ga. Shirt. No. 1,337,917; Apr. 20; v. 273; p. 554.

Kaps, Richard A., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Steering reach-rod. No. 1,337,138; Apr. 13; v. 273; p. 332.

Karasevicz, Jouzas, South Amboy, N. J. Lock. No. 1,336,080; Apr. 6; v. 273; p. 71.

Karasevicz, Jouzas, South Amboy, N. J. Baby-coach awning. No. 1,337,360; Apr. 20; v. 273; p. 448.

Karlsson, Georg. (See Wiberg, O. A., and Karlsson.)

Karpinski, Roman, Export, Pa. Beehive. No. 1,336,523; Apr. 13; v. 273; p. 214.

Karr, Francis, Holland, Mich. Spring-mattress. No. 1,337,320; Apr. 20; v. 273; p. 441.

Kasper, Stanley, Buxton, Iowa. Convertible ladder and bench. No. 1,337,361; Apr. 20; v. 273; p. 449.

Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Weed-cutter. No. 1,337,655; Apr. 20; v. 273; p. 504.

Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Gas-engine bearing. No. 1,337,656; Apr. 20; v. 273; p. 504.

Kaufman, Adolph G., New York, N. Y. Shade-holder support for lamps. No. 1,338,635; Apr. 27; v. 273; p. 758.

Kaufman, Adolph G., New York, N. Y. Hydrocarbon-light. No. 1,338,636; Apr. 27; v. 273; p. 758.

Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Clutch mechanism. No. 1,338,139; Apr. 27; v. 273; p. 666.

Kawakita, Yoshinao, Hongo-Ku, Tokyo, Japan. System of electrically indicating on board ship the depth of seawater. No. 1,335,738; Apr. 6; v. 273; p. 7.

Kawneer Manufacturing Company. (See Plym, Francis J., assignor.)

Kaylor, Jacob F., Pekin, Ill. Water-carrying attachment for razors. No. 1,335,840; Apr. 6; v. 273; p. 25.

Kaynee Company, The. (See Oathout, Charles E., assignor.)

Kayser, Julius, & Co. (See Webb, George S., Jr., assignor.)

Keables, Albert E., San Francisco, Calif. Combination concentrator and classifier. No. 1,336,963; Apr. 13; v. 273; p. 299.

Keck, C. M., *et al.*, executors. (See Brinton, William F.)

Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,335,739; Apr. 6; v. 273; p. 7.

Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Universal joint. No. 1,335,740; Apr. 6; v. 273; p. 7.

Kellan, Edward L., Chicago, Ill. Flush-valve. No. 1,337,177; Apr. 13; v. 273; p. 339.

Kelleher, Mary E., Rutland, Vt. Stepladder. No. 1,337,657; Apr. 20; v. 273; p. 504.

Keller, Edgar S. (See Bahr, August T. J., assignor.)

Kellerman, Adolf B., New York, N. Y. Packing-form. No. 1,335,972; Apr. 6; v. 273; p. 51.

Kelly, William J., Jamaica, N. Y. Door-stop. No. 1,338,571; Apr. 27; v. 273; p. 746.

Kelley, William V. D., New York, N. Y., assignor, by mesne assignments, to Prizma Incorporated. Motion-picture film. No. 1,337,775; Apr. 20; v. 273; p. 527.

Kellogg Switchboard and Supply Company. (See Cassaday, Ormond F., assignor.)

Kellogg Switchboard and Supply Company. (See Hilbish, John E., assignor.)

Kellogg Switchboard and Supply Company. (See Schoenwolf, Fred, assignor.)

Kellum, Lyman W., Birdsboro, Pa. Charging mechanism for cupolas. No. 1,335,741; Apr. 6; v. 273; p. 7.

Kelly, Benjamin F., Denver, Colo. Carrier. No. 1,337,518; Apr. 20; v. 273; p. 478.

Kelly, James G., assignor of one-half to H. Hall, Sedalia, Mo. Solder for aluminum. No. 1,336,081; Apr. 6; v. 273; p. 71.

Kelly, William D., Lewis Run, Pa. Scaffold. No. 1,336,141; Apr. 6; v. 273; p. 83.

Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Printing-press. No. 1,336,841; Apr. 13; v. 273; p. 276.

Kelsey, Richard, Lynn, Mass. Penholder-support. No. 1,336,964; Apr. 13; v. 273; p. 299.

Kelsey Wheel Company. (See Winter, John R., assignor.)

Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,338,306; Apr. 27; v. 273; p. 697.

Kendall, James B., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reversing mechanism. No. 1,338,086; Apr. 27; v. 273; p. 656.

Kennedy, Charles L., Columbia, S. C. Automatic hoeing-machine. No. 1,336,299; Apr. 6; v. 273; p. 112.

Kennedy, James M., Columbus, Ohio. Bolter-screen attachment. No. 1,336,300; Apr. 6; v. 273; p. 112.

Kennedy, John E., Glens Falls, N. Y. Automatic telltale for pneumatic tires. No. 1,338,637; Apr. 27; v. 273; p. 759.

Kennerly, Milton C., Stuart, Okla. Churn-support. No. 1,337,362; Apr. 20; v. 273; p. 449.

Kenney, John J., assignor to Best Electric Company, Pittsburgh, Pa. Attachment-plug. No. 1,338,226; Apr. 27; v. 273; p. 682.

Kenney, Joseph C., Scottdale, Pa. Mechanism support for talking-machines. No. 1,336,842; Apr. 13; v. 273; p. 276.

Kennington, George W., Brooklyn, N. Y. Self-seating door-handle. No. 1,337,918; Apr. 20; v. 273; p. 554.

Kent, Alden J., assignor of one-half to S. F. Knowles, Jr., Rowley, Mass. Twisting and winding machine. No. 1,337,658; Apr. 20; v. 273; p. 505.

Kenworthy, Abel, Waterbury, Conn. Collapsible block. No. 1,337,017; Apr. 13; v. 273; p. 309.

Kermath, James, Detroit, Mich. Center. No. 1,336,843; Apr. 13; v. 273; p. 276.

Kern, Maximilian H., Ridgewood, N. Y., assignor to Roberts Numbering Machine Company. Numbering-head. No. 1,337,232; Apr. 20; v. 273; p. 424.

Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,337,659; Apr. 20; v. 273; p. 505.

Kerr, William J., Smethport, Pa. Top. No. 1,338,572; Apr. 27; v. 273; p. 747.

Kerr, William J., Smethport, Pa. Top. No. 1,338,573; Apr. 27; v. 273; p. 747.

Kerr, William J., Smethport, Pa. Top. No. 1,338,574; Apr. 27; v. 273; p. 747.

Kerr, William J., Smethport, Pa. Top. No. 1,338,575; Apr. 27; v. 273; p. 747.

Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Internal-combustion engine. No. 1,337,077; Apr. 13; v. 273; p. 321.

Kesselman, Samuel, Newark, N. J. Chair. No. 1,335,973; Apr. 6; v. 273; p. 51.

Kessler, Benjamin H., Tampa, Fla. Engine-valve attachment. No. 1,336,237; Apr. 6; v. 273; p. 101.

Kester, James A., Gastonia, N. C., assignor of one-half to H. M. Clemmer, Dallas, N. C. Roll-traverse. No. 1,336,703; Apr. 13; v. 273; p. 249.

Ketler, William H., assignor of one-third to H. C. Engel, Camden, N. J. Toasting and boiling device. No. 1,336,565; Apr. 13; v. 273; p. 222.

Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Circuit-breaker indicating device. No. 1,336,142; Apr. 6; v. 273; p. 83.

Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Circuit-breaker indicating device. No. 1,336,143; Apr. 6; v. 273; p. 83.

Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical distribution and control. No. 1,337,363; Apr. 20; v. 273; p. 449.

Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical generation and control. No. 1,337,364; Apr. 20; v. 273; p. 449.

Keys, Lee L., Yakima, Wash. Tire-tool. No. 1,338,576; Apr. 27; v. 273; p. 747.

Kiefer, John M., Jr., assignor to Splitdorf Electrical Company, Newark, N. J. Electric-cable-connecting means. No. 1,336,437; Apr. 13; v. 273; p. 198.

Kienle, Charles. (See Reid, J. E., and Kienle.)

Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,373; Apr. 27; v. 273; p. 710.

Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread-trimmer for sewing-machines. No. 1,338,374; Apr. 27; v. 273; p. 710.

Kilgore, Charles F., Minneapolis, Minn. Tractor. No. 1,338,510; Apr. 27; v. 273; p. 735.

Killen, Edward B., London, England. Pneumatic tire. No. 1,337,660; Apr. 20; v. 273; p. 505.

Kimbark, Eugene C., Evanston, Ill. Fastening device. No. 1,336,629; Apr. 13; v. 273; p. 234.

Kimmel, George C., assignor to The Cincinnati Grinder Company, Cincinnati, Ohio. Grinding-machine. No. 1,337,139; Apr. 13; v. 273; p. 332.

Kimmel, George C., assignor to The Cincinnati Grinder Company, Cincinnati, Ohio. Grinding-machine. No. 1,337,140; Apr. 13; v. 273; p. 332.

King, Albert E., Wanganui, New Zealand. Container-piercing and tank-filling machine. No. 1,337,558; Apr. 20; v. 273; p. 485.

King, Elgin M., Niagara Falls, N. Y. Multiple-fuse plug. No. 1,336,238; Apr. 6; v. 273; p. 101.

Kingsbury, Alvin C., Gig Harbor, Wash. Automatic air-pressure control. No. 1,336,301; Apr. 6; v. 273; p. 112.

Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)

Kingsbury, Harry T. and E. J., Keene, N. H. Toy boat. No. 1,335,900; Apr. 6; v. 273; p. 37.

Kingsford, Walter E., Weatherford, Tex. Adjustable foot-rest. No. 1,337,919; Apr. 20; v. 273; p. 555.

Kinney, Grayson T. (See Morgan, M. B., Collins, and Kinney.)

Kinney, J. Stanley. (See Conrad, F., and Kinney.)

Kinraide, Thomas B., Boston, Mass. Apparatus for forming a smooth surface on metal while being milled. No. 1,336,239; Apr. 6; v. 273; p. 101.

Kirby, James B., Cleveland, Ohio. Washing-machine. No. 1,337,453; Apr. 20; v. 273; p. 466.

Kirby, John F. (See Dougherty, R., and Kirby.)

Kirchner, Arthur W., assignor of one-half to G. J. Pille, Denver, Colo. Running-board and fender-support for automobiles. No. 1,337,078; Apr. 13; v. 273; p. 321.

Kiriyama, Hisataro, *et al.* (See Kojima, Edward M., assignor.)

Kirk, Benjamin K. (See Deans, F. B., and Kirk.)

Kirk, Charles J., New Castle, Pa. Heat-treating furnace. No. 1,337,454; Apr. 20; v. 273; p. 466.

Kirk, Thomas S. (See Pringle, A., and Kirk.)

Kirkbride, Donald K. (See Kirkbride, Oliver B., assignor.)

Kirkbride, Oliver B., assignor of one-fourth to D. K. Kirkbride, Minneapolis, Minn. Nut and bolt lock. No. 1,335,901; Apr. 6; v. 273; p. 37.

Kirke, Percy S., Westminster, London, England. Steam-superheater. No. 1,335,974; Apr. 6; v. 273; p. 51.

Kirkham, Charles B., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aeronautical motor. No. 1,336,704; Apr. 13; v. 273; p. 249.

Kirkpatrick, George W., Rochester, N. Y. Guard for digging implements. No. 1,336,630; Apr. 13; v. 273; p. 235.

Kirksey, John G., Seattle, Wash. Sizing apparatus. No. 1,338,227; Apr. 27; v. 273; p. 682.

Kissel, Michael J., Trenton, N. J. Mail-bag-transferring device. No. 1,338,228; Apr. 27; v. 273; p. 683.

Kissinger, George A., Alhambra, Calif. Cold-chisel. No. 1,336,631; Apr. 13; v. 273; p. 235.

Klaus, Fred R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Wire-wheel rim and making same. No. 1,336,965; Apr. 13; v. 273; p. 299.

Kleckler, Henry, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane. No. 1,336,405; Apr. 6; v. 273; p. 132.

Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeroplane-control mechanism. No. 1,336,632; Apr. 13; v. 273; p. 235.

Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Landing-gear for aircraft. No. 1,336,633; Apr. 13; v. 273; p. 235.

Kleckler, Henry, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Flying-boat. No. 1,336,634; Apr. 13; v. 273; p. 235.

Kleidman, Joseph, New York, N. Y. Bag. No. 1,338,375; Apr. 27; v. 273; p. 710.

Klein, Benjamin, New York, N. Y. Amusement device. No. 1,336,082; Apr. 6; v. 273; p. 71.

Klein, Fred J. (See Grant, James W., assignor.)

Klema, Joseph N., Austin, Minn. Lantern. No. 1,335,841; Apr. 6; v. 273; p. 26.

Klemm, Emil R., Chicago, Ill. Antiskid-chain. No. 1,338,087; Apr. 27; v. 273; p. 656.

Klenke, August C., Berkeley, assignor of one-half to B. L. Benson, and one-half to J. J. O. Winks, San Francisco, Calif. Clip. No. 1,337,607; Apr. 20; v. 273; p. 495.

Kliavin, Rudolph. (See Dmitriff, Vasily N., assignor.)

Kliewer, Edward A., Tolar, Tex. Overshot fishing-tool. No. 1,337,476; Apr. 20; v. 273; p. 470.

Klousnitzer, Frank, Crafton, assignor of one-half to R. Sommer, Pittsburgh, Pa. Crutch. No. 1,336,844; Apr. 13; v. 273; p. 276.

Knapp, E. J., Candle and Wax Co. Inc. (See Knapp, Edward J., assignor.)

Knapp, Edward J., assignor to E. J. Knapp, Candle and Wax Co. Inc., Syracuse, N. Y. Sanctuary-lamp. No. 1,336,635; Apr. 13; v. 273; p. 235.

Knapp, Fred H., Company. (See Dewey, Haywood G., assignor.)

Knapp, Henry F., Lebanon, N. H. Apparatus for washing automobiles and the like. No. 1,337,477; Apr. 20; v. 273; p. 470.

Knapp, Leo M., Wellsville, N. Y. Compression-tester. No. 1,337,455; Apr. 20; v. 273; p. 466.

Knapp Metal Barrel and Package Co. of Nevada. (See Knapp, Sewell A. and M. A., assignors.)

Knapp, Moses A. (See Knapp, Sewell A. and M. A.)

Knapp, Sewell A., Berkeley, and M. A. Knapp, Oakland, Calif., assignors to Knapp Metal Barrel and Package Co. of Nevada, Carson City, Nev. Collapsible barrel. No. 1,336,358; Apr. 6; v. 273; p. 123.

Knell, William F., Detroit, Mich. Flushing-valve. No. 1,338,638; Apr. 27; v. 273; p. 759.

Knight, Herbert M., Rome, N. Y. Burial-vault. No. 1,337,559; Apr. 20; v. 273; p. 486.

Knight, William W., Oxford, Miss. Combination baby's bed, cradle, and wardrobe. No. 1,336,240; Apr. 6; v. 273; p. 101.

Knoll, Charles C. (See Pequegnat, F., and Knoll.)

Knowles, Clarence H. (See Nickol, F. C., and Knowles.)

Knowles, James A., Baltimore, Md. Universal-joint puller. No. 1,337,233; Apr. 20; v. 273; p. 424.

Knowles, Samuel F., Jr. (See Kent, Alden J., assignor.)

Knox, William C., New York, N. Y. Station-indicator. No. 1,336,035; Apr. 6; v. 273; p. 63.

Knox, William J., Dubois, Pa. Drop stake-loop. No. 1,336,636; Apr. 13; v. 273; p. 236.

Kobayashi, Kanjiro, Tokyo, Japan. Steel-ball-making machine. No. 1,337,079; Apr. 13; v. 273; p. 321.

Kocha, Jacob, Warrior Run, Peely, Pa. Monkey-wrench. No. 1,338,376; Apr. 27; v. 273; p. 710.

Kocourek, Henry, Chicago, Ill. Aerating device for primers for internal-combustion engines. No. 1,336,144; Apr. 6; v. 273; p. 83.

Kohler, Ernest, Alameda, Calif. Torpedo capturing and destroying net. No. 1,337,920; Apr. 20; v. 273; p. 555.

Kohn, Milton M., assignor to The Ventilator Fan Co., Inc., New York, N. Y. Ventilator-fan. No. 1,337,560; Apr. 20; v. 273; p. 486.

Kojima, Edward M., Los Angeles, Calif., assignor of thirty-one one-hundredths to N. Tsuchiyama and fifteen one-hundredths to H. Kiriyama, El Monte, Calif. Combination faradic and vibratory massage implement. No. 1,338,020; Apr. 27; v. 273; p. 643.

Koken, Walter F., St. Louis, Mo. Pedestal-base for barber-chairs. No. 1,337,608; Apr. 20; v. 273; p. 495.

Koken, Walter F., St. Louis, Mo. Seat-frame for barber-chairs. No. 1,337,609; Apr. 20; v. 273; p. 495.

Kolar, Adam, Millfield, Ohio. Ash-sifter. No. 1,336,637; Apr. 13; v. 273; p. 236.

Kopf, John C., Bellevue, Pa. Mechanical movement. No. 1,338,377; Apr. 27; v. 273; p. 711.

Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,337,519; Apr. 20; v. 273; p. 478.

Kopf, Melrose G., assignor to The Ralko Products Company, Dayton, Ohio. Supporting-bracket for fire-extinguishers and the like. No. 1,337,234; Apr. 20; v. 273; p. 424.

Koppers Company, The. (See Becker, Joseph, assignor.)

Kovzovich, Vincent J., assignor of one-half to J. Letsky, New Britain, Conn. Automobile signaling device. No. 1,337,405; Apr. 20; v. 273; p. 457.

Kozak, John, Milwaukee, Wis. Trolley-retriever. No. 1,336,966; Apr. 13; v. 273; p. 299.

Kraetsch, Paul H., Astoria, Oreg. Leafless photograph-album. No. 1,336,438; Apr. 13; v. 273; p. 198.

Kramer, Louis A., Chicago, Ill. Carcass-dehairing machine. No. 1,336,524; Apr. 13; v. 273; p. 214.

Kranz, Herman L., Brooklyn, N. Y. Pocket tool-holder. No. 1,336,083; Apr. 6; v. 273; p. 72.

Krause, George E., Canton, Ohio. Box. No. 1,335,787; Apr. 6; v. 273; p. 16.

Krauss, Adolf, Cannstatt, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Mechanical interrupter for electric ignition systems. No. 1,337,456; Apr. 20; v. 273; p. 466.

Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach administrator. Manifolding-machine. No. 1,338,140; Apr. 27; v. 273; p. 666.

Krebs, John C. L. (See Wells, Walter W., assignor.)

Krey, Carl, Battle Creek, Mich. Cradle. No. 1,336,302; Apr. 6; v. 273; p. 113.

Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding mechanism. No. 1,335,742; Apr. 6; v. 273; p. 7.

Krone, Ward E., Pittsfield, Mass., assignor to General Electric Company, Multiconducting leads. No. 1,337,080; Apr. 13; v. 273; p. 322.

Krouse, Charles C., Williamsport, Pa. Tanning. No. 1,338,307; Apr. 27; v. 273; p. 697.

Krouse, Charles C., Williamsport, Pa. Degreasing apparatus. No. 1,338,308; Apr. 27; v. 273; p. 697.

Krueger, Henry, *et al.* (See Heideman, Fred J., assignor.)

Kuhn, Adam M., assignor of one-third to C. M. Kuhn and one-third to J. E. Herman, Kearney, Nebr. Ball-and-socket joint. No. 1,337,235; Apr. 20; v. 273; p. 425.

Kuhn, Charles M., *et al.* (See Kuhn, Adam M., assignor.)

Kuhn, Clarence A., Forks, N. Y. Crank-shaft. No. 1,337,081; Apr. 13; v. 273; p. 322.

Kumpf, August D., Philadelphia, Pa. Actuating mechanism for windows, sashes, shutters, or the like. No. 1,337,776; Apr. 20; v. 273; p. 527.

Kuper, Israel, *et al.* (See Blaukfield, George, assignor.)

Kusterle, Frank. (See Travis, D. C., and Kusterle.)

Kutchka, Karl G., Youngstown, Ohio. Rotary engine or pump. No. 1,336,845; Apr. 13; v. 273; p. 277.

Kutwicz, Frank, Regina, Saskatchewan, Canada. Collapsible cane. No. 1,336,638; Apr. 13; v. 273; p. 236.

Lacerda, Harry A., Jersey City, N. J., assignor of one-half to R. W. Benson, Mount Vernon, N. Y. Superheater for internal-combustion engines. No. 1,338,511; Apr. 27; v. 273; p. 736.

La Chapelle, Euclid L., Brockton, Mass. Shoe-turning machine. No. 1,336,750; Apr. 13; v. 273; p. 258.

Lachman, Philipp, and G. Thomas, Rahway, N. J. Vibratory disk. No. 1,336,036; Apr. 6; v. 273; p. 63.

Lackawanna Steel Company. (See Conkling, Cloud C., assignor.)

La Count, Eldridge I. (See Prince, B. A., and La Count.)

La Count, Eldridge I., assignor to Orcutt Automatic Train Control Company, Worcester, Mass. Apparatus for electrically controlling air-brakes. No. 1,336,465; Apr. 13; v. 273; p. 203.

La Crosse Plow Company. (See Davis, F. E., and Biebinger, assignors.)

Lafferty, Herbert D. (See Shearer, Joe E., assignor.)

La Fleur, Charles E., Philadelphia, Pa. Egg-case filler. No. 1,337,978; Apr. 20; v. 273; p. 566.

La Grange, William J., Rensselaer, N. Y. Automobile turntable-jack. No. 1,336,037; Apr. 6; v. 273; p. 63.

Laird, John H., assignor to Laird Manufacturing Company, Louisville, Ky. Automobile-headlight. No. 1,336,967; Apr. 13; v. 273; p. 300.

Laird Manufacturing Company. (See Laird, John H., assignor.)

Lake, Simon, Milford, Conn. Apparatus for rivet-setting and similar operations. No. 1,337,457; Apr. 20; v. 273; p. 466.

Lalonde, Louise. (See Lalonde, Moses, assignor.)

Lalonde, Moses, assignor of one-half to L. Lalonde, Springfield, Mass. Toy. No. 1,337,661; Apr. 20; v. 273; p. 505.

La May, Arthur C., deceased, Rochester, N. Y.; B. La May, administratrix. Drafting-machine. No. 1,336,241; Apr. 6; v. 273; p. 102.

La May, Bridget, administratrix. (See La May, Arthur C.)

Lamb, Henry W., Brookline, Mass. Method of and apparatus for treating metal sheets. No. 1,337,458; Apr. 20; v. 273; p. 467.

Lamb, Homer M., West Frankfort, Ill. Adjustable guide-clamp. No. 1,337,921; Apr. 20; v. 273; p. 555.

Lamb, Joseph M., Fazakerley, near Liverpool, England. Tool-holder or tool. No. 1,336,466; Apr. 13; v. 273; p. 203.

Lambert, Joseph A., Houston, Tex. Means for detachably securing chairs to floors. No. 1,335,842; Apr. 6; v. 273; p. 26.

Lambertz, Josef, Hennef-on-the-Sieg, Germany. Closing device for the material-receptacles of automatic weighing-machines. No. 1,337,842; Apr. 20; v. 273; p. 540.

Lamme, Benjamin G., and W. Sykes, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Speed-control system for induction-motors. No. 1,336,566; Apr. 13; v. 273; p. 222.

Lammers, Matthew, Sheboygan Falls, Wis. Milking apparatus. No. 1,338,182; Apr. 27; v. 273; p. 674.

Lamoreaux, Frank W., Syracuse, N. Y. Glare-stop. No. 1,338,622; Apr. 27; v. 273; p. 644.

Landis, Raymond F., Reading, Pa. Valve control and releasing device. No. 1,336,084; Apr. 6; v. 273; p. 72.

Lane, Philander E., Atlantic City, N. J. Drop-hammer. No. 1,337,520; Apr. 20; v. 273; p. 479.

Lang, Edward C., Melrose, and C. A. Van Derveer, Wakefield, Mass., assignors to Heywood Brothers and Wakefield Company, Upholstered seat-cushion. No. 1,336,525; Apr. 13; v. 273; p. 214.

Langley, Charles E., Keokuk, Iowa. Phonographic-record cabinet. No. 1,337,922; Apr. 20; v. 273; p. 555.

Lanius, Charles H. (See Dysart, W. L., and Lanius.)

Lapham, Ralph E., San Francisco, Calif. Centrifugal separating-machine. No. 1,336,968; Apr. 13; v. 273; p. 300.

Lapka, Andrzej, Simpson, Pa. Churn. No. 1,337,777; Apr. 20; v. 273; p. 528.

Lapointe Machine Tool Company. (See Blanchard, Harry E., assignor.)

La Porte, Ralph P., Schenectady, N. Y. Electric welding appliance. No. 1,337,662; Apr. 20; v. 273; p. 505.

Lappalainen, Alfred, Vancouver, British Columbia, Canada. Violin-support. No. 1,337,459; Apr. 20; v. 273; p. 467.

Larned, Carter & Company. (See Carter, David S., assignor.)

La Rock, Barney, Kansas City, Mo. Safety-razor. No. 1,336,969; Apr. 13; v. 273; p. 300.

Larrabee, Clinton E., assignor to International Time Recording Company of New York, Binghamton, N. Y. Synchronizing-clock. No. 1,338,309; Apr. 27; v. 273; p. 698.

Larson, Edward, Hartford, Conn. Sash-lock. No. 1,336,242; Apr. 6; v. 273; p. 102.

Larson, Helen O., Los Angeles, Calif. Cooking utensil. No. 1,338,378; Apr. 27; v. 273; p. 711.

La Rue, Willis E., assignor of one-half to W. P. Hall, Indianapolis, Ind. Faucet. No. 1,336,970; Apr. 13; v. 273; p. 300.

Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Apparatus for producing hydrochloric acid. No. 1,335,743; Apr. 6; v. 273; p. 8.

Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Producing hydrochloric acid utilizing sludge acid. No. 1,337,141; Apr. 13; v. 273; p. 332.

Latham Automatic Registering Company. (See Sauter, Herman, assignor.)

Latham, Leonard, Columbus, Ohio. Liquid-fuel-vending machine. No. 1,338,229; Apr. 27; v. 273; p. 683.

Lathrop, Harry D., and W. H. Paulson, Chicago, Ill.; said Paulson assignor to said Lathrop. Can-reversing mechanism for can-washing machines. No. 1,336,567; Apr. 13; v. 273; p. 223.

Lathrop, Harry D., Chicago, Ill. Carrier for can-washing machines. No. 1,336,568; Apr. 13; v. 273; p. 223.

Lathrop, Harry D., Chicago, Ill. Cargo-stop. No. 1,336,569; Apr. 13; v. 273; p. 223.

Lathrop, Harry D., and W. H. Paulson, Chicago, Ill.; said Paulson assignor to said Lathrop. Can-washing machine. No. 1,336,570; Apr. 13; v. 273; p. 223.

Laube, Arthur, New Bedford, Mass. Non-refillable bottle. No. 1,337,923; Apr. 20; v. 273; p. 555.

Lauer, Jacob, Jr., Cherokee, Iowa. Draw-bar for tractors. No. 1,337,521; Apr. 20; v. 273; p. 479.

Laughlin Fruit Reliners Inc. (See Winchester, William L., assignor.)

Lauterbur, Frank X., Sidney, Ohio. Reversible double-speed, friction and gear drive for dough-mixers. No. 1,336,783; Apr. 13; v. 273; p. 264.

Lautner, Ernest S., Solon township, Leelanau county, Mich. Fruit-grader. No. 1,337,924; Apr. 20; v. 273; p. 556.

Lauzon, Mabel M., Chicago, Ill. Garment. No. 1,336,303; Apr. 6; v. 273; p. 113.

Lavler, Charles, Syracuse, N. Y. Gearless differential. No. 1,337,460; Apr. 20; v. 273; p. 467.

Law, Herbert E., and E. Pooler, San Francisco, Calif. Lath-weaving machine. No. 1,336,908; Apr. 13; v. 273; p. 289.

Lawrence, Charles L., Bayshore, N. Y. Lubricating system for high-speed engines. No. 1,338,310; Apr. 27; v. 273; p. 698.

Lawrence, Edward H., Cameron, W. Va., and R. E. Crane, Wilmette, Ill. Making sanitary earthenware. No. 1,337,663; Apr. 20; v. 273; p. 506.

Lawson, Albert F. (See Leckey, G. B., and Lawson.)

Layne & Bowler Company. (See Layne, Lloyd F., assignor.)

Layne, Lloyd F., Houston, Tex., assignor to Layne & Bowler Company. Well-screen. No. 1,335,975; Apr. 6; v. 273; p. 51.

Leach, Glen R., Cleveland, Ohio. Door-operating mechanism. No. 1,338,379; Apr. 27; v. 273; p. 711.

Leach, Martin A., Los Angeles, Calif. Attachment for automobiles. No. 1,337,522; Apr. 20; v. 273; p. 479.

Leach, Vivian A., San Francisco, Calif. Valve for inner-tube valve-stems. No. 1,335,976; Apr. 6; v. 273; p. 52.

Le Blond R. K., Machine Tool Company, The. (See Grocue, William F., assignor.)

Leduc, William, Toronto, Ontario, Canada. Stone-picker. No. 1,338,023; Apr. 27; v. 273; p. 644.

Lee, Charles L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Setting mechanism. No. 1,338,230; Apr. 27; v. 273; p. 683.

Lee, George E., assignor to The George E. Lee Company, Cleveland, Ohio. Thermostat. No. 1,338,024; Apr. 27; v. 273; p. 644.

Lee, George E., Company, The. (See Lee, George E., assignor.)

Lee, Ulysses G., Chicago, Ill. Screen for portholes and the like. No. 1,336,038; Apr. 6; v. 273; p. 63.

Lee, Walter O., Detroit, Mich. Button. No. 1,336,243; Apr. 6; v. 273; p. 102.

Leeds & Northrup Company. (See Smith, Irving B., assignor.)

Lees, Thomas R. (See Wallace, J., and Lees.)

Lefterink, William, Gonor, Manitoba, Canada. Potato-peeler. No. 1,336,526; Apr. 13; v. 273; p. 214.

Lehman, Joseph H., New York, N. Y. Moving-picture shutter. No. 1,335,744; Apr. 6; v. 273; p. 8.

Leibowitz, Adolph M. (See Hunsinger, John, Sr., assignor.)

Leich Electric Company. (See Leich, Oscar M., assignor.)

Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Vibratory converter. No. 1,338,380; Apr. 27; v. 273; p. 711.

Lemke, August C., and L. L. Almeter, Wabasha, Minn. Wire stretcher and winder. No. 1,337,142; Apr. 13; v. 273; p. 333.

Lemoine, David, and G. P. Fournier, Whitinsville, Mass. Spindle. No. 1,336,467; Apr. 13; v. 273; p. 203.

Lengel, Irvin D., and S. S. Shears, Reading, Pa.; said Lengel assignor to said Shears. Vehicle-spring. No. 1,336,468; Apr. 13; v. 273; p. 204.

Leonard, Chester S., Lansdowne, and R. H. and R. J. Beck, Philadelphia, Pa. Engine. No. 1,338,311; Apr. 27; v. 273; p. 698.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,337,778; Apr. 20; v. 273; p. 528.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Film-moving mechanism. No. 1,336,639; Apr. 13; v. 273; p. 236.

Leonard, John E., assignor to The National Motion Picture Camera Company, Los Angeles, Calif. Film-magazine. No. 1,336,640; Apr. 13; v. 273; p. 236.

Leonard, Leslie V., Richmond, Victoria, Australia. Electric-heating resistance element. No. 1,337,779; Apr. 20; v. 273; p. 528.

Leonard, Patrick A., M. F. Maloney, and E. Fandrich, Schenectady, N. Y. Fluid-pressure apparatus for burning powdered fuel. No. 1,338,454; Apr. 27; v. 273; p. 714.

Leslie, Eugene H. (See Cannon, H., Barbre, and Leslie.)

Leslie, Eugene H., and C. Barbre, Los Angeles, Calif., assignors to General Petroleum Corporation. Refining cracked oils. No. 1,337,523; Apr. 20; v. 273; p. 479.

Lessmann, Herbert F., Wayne, Nebr. Loading-machine. No. 1,337,082; Apr. 13; v. 273; p. 322.

Letroteur, Maurice L., Paris, France. Motor-plow. No. 1,337,929; Apr. 20; v. 273; p. 557.

Letsky, James. (See Kovzovich, Vincent J., assignor.)

Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Conveying mechanism. No. 1,336,304; Apr. 6; v. 273; p. 113.

Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Automatic weighing device. No. 1,336,705; Apr. 13; v. 273; p. 249.

Levanseler, Frank E., Chicago, Ill. Support for hinged covers or members. No. 1,336,085; Apr. 6; v. 273; p. 72.

Levene, Albert H., Philadelphia, Pa. Adjustable shelving. No. 1,336,971; Apr. 13; v. 273; p. 300.

Levene, Albert H., Philadelphia, Pa. Tote-box. No. 1,336,972; Apr. 13; v. 273; p. 300.

Levene, Albert H., Philadelphia, Pa. Movable platform. No. 1,336,973; Apr. 13; v. 273; p. 301.

Levin, Bertram, Hale, England. Manufacture of a boron derivative of pyrophosphoric acid. No. 1,336,974; Apr. 13; v. 273; p. 301.

Levy, Joseph. (See Agranat, Simon, assignor.)

Levy, William, Paterson, N. J. Cooking device. No. 1,337,524; Apr. 20; v. 273; p. 479.

Lewandowsky, Andrew, Lansing, Mich. Curtain-hanger. No. 1,338,312; Apr. 27; v. 273; p. 698.

Lewis, Charles A., Dayton, Ohio. Heater for hydrocarbon-fuel intakes. No. 1,335,843; Apr. 6; v. 273; p. 26.

Lewis, Edward G. (See Doe, Loring B., assignor.)

Lewis, George S., Springfield, assignor to J. Stevens Arms Company, Chicopee Falls, Mass. Pistol. No. 1,338,381; Apr. 27; v. 273; p. 711.

Lewis, George S., Springfield, assignor to J. Stevens Arms Company, Chicopee Falls, Mass. Rear sight for firearms. No. 1,338,382; Apr. 27; v. 273; p. 711.

Lewis, George S., Springfield, assignor to J. Stevens Arms Company, Chicopee Falls, Mass. Rifle-sight. No. 1,338,183; Apr. 27; v. 273; p. 674.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Animal-stanchion. No. 1,337,925; Apr. 20; v. 273; p. 556.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Manger partition. No. 1,337,926; Apr. 20; v. 273; p. 556.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Animal-stanchion. No. 1,337,927; Apr. 20; v. 273; p. 556.

Lewis, John V. (See Fowler, E., and Lewis.)

Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-controlled deadlocking device. No. 1,337,083; Apr. 13; v. 273; p. 322.

Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-controlled dead-locking device. No. 1,337,928; Apr. 20; v. 273; p. 556.

Lewis, Seneca G., Greensburg, and G. W. Dann, Jeannette, Pa. Buffer. No. 1,336,527; Apr. 13; v. 273; p. 215.

Lewis, Thomas E., Penygraig, Rhondda, Wales. Engine. No. 1,336,846; Apr. 13; v. 273; p. 277.

Lewis, Thomas E., Rhondda, Wales. Motion-converting device. No. 1,336,847; Apr. 13; v. 273; p. 277.

Libenschek, Rudolf, Pittsburgh, assignor of one-half to S. Lovrencic, Bellevue, Pa. Device for holding bolts of transmission-cases. No. 1,337,084; Apr. 13; v. 273; p. 322.

Liberty Radiator Company. (See Coffelder, Thomas H., assignor.)

Lichtenstein, Alexander, Brooklyn, N. Y. Wire-scraping tool. No. 1,337,236; Apr. 20; v. 273; p. 425.

Lieberman, George F. (See Gensmer, T., and Lieberman.)

Liebowitz, Benjamin, New Rochelle, N. Y. Pivot. No. 1,335,745; Apr. 6; v. 272; p. 8.

Light, Peter, Cincinnati, Ohio. Hoisting and displaying device. No. 1,337,237; Apr. 20; v. 273; p. 425.

Lightle, Lena R., Chewelah, Wash. Rotary table for ovens. No. 1,335,844; Apr. 6; v. 273; p. 26.

Lillberg, John E., Dover, Mont. Gravity level and plumb. No. 1,338,639; Apr. 27; v. 273; p. 759.

Linbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Ceramic article. No. 1,336,751; Apr. 13; v. 273; p. 258.

Lind, Jacob P., Columbus, Ohio. Vehicle-lock. No. 1,337,709; Apr. 20; v. 273; p. 515.

Lind, Otto S., Chicago, Ill. Flying-machine. No. 1,338,025; Apr. 27; v. 273; p. 644.

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Carriage-top. No. 1,338,026; Apr. 27; v. 273; p. 644.

Lindberg, John F., Hibbing, Minn. Barn-door-operating device. No. 1,338,027; Apr. 27; v. 273; p. 645.

Lindquist, Leonard B., Maida, N. D. Combination rubber stamp and pen-rack. No. 1,338,184; Apr. 27; v. 273; p. 674.

Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Acetyl cellulose and making same. No. 1,338,661; Apr. 27; v. 273; p. 763.

Linehan, Daniel J., Chicopee, Mass. Traffic-signal. No. 1,338,028; Apr. 27; v. 273; p. 645.

Lines, Jesse, Sabetha, Kans. Auto attachment. No. 1,336,305; Apr. 6; v. 273; p. 113.

Linke, Victor F., West New York, N. J. Theater-chair. No. 1,336,641; Apr. 13; v. 273; p. 236.

Lippen, Jonathan K., assignor to Postum Cereal Company, Battle Creek, Mich. Solid soluble beverage extract and manufacturing same. No. 1,338,231; Apr. 27; v. 273; p. 683.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Match-machine attachment. No. 1,336,244; Apr. 6; v. 273; p. 102.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Match-boxing attachment. No. 1,336,245; Apr. 6; v. 273; p. 102.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Registering attachment for match-machine. No. 1,336,246; Apr. 6; v. 273; p. 102.

Lispenard, George, Brooklyn, assignor to H. & F. Match Machine Corporation, New York, N. Y. Pin-gates for match-machine hoppers. No. 1,336,247; Apr. 6; v. 273; p. 103.

Litchfield Shuttle Company. (See Cheney, G. M., and Harwood, assignors.)

Littell, Earl M., Indianapolis, Ind. Antiskid-sander for automobiles. No. 1,338,640; Apr. 27; v. 273; p. 759.

Littlehales, W. W. (See Weary, John, assignor.)

Lloyd, Marshall B., Menominee, Mich. Method of and means for binding the edges of reed fabric and the like. No. 1,336,571; Apr. 13; v. 273; p. 223.

Lock Stub Check Company. (See Potter, Thomas R. F., assignor.)

Lockard, James S., Landrum, S. C. Wagon-brake. No. 1,336,909; Apr. 13; v. 273; p. 289.

Lockart, Andrew B., Redlands, Calif. Valve-spring compressor. (Reissue.) No. 14,845; Apr. 20; v. 273; p. 569.

Locke, William C. (See Dreyling, A., and Locke.)

Lockey, George B., and A. F. Lawson, Pittsburgh, Pa. Thread-gage. No. 1,337,018; Apr. 13; v. 273; p. 309.

Lockhart, Harold J., Parkersburg, W. Va. Gearing for use in oil-well-drilling machines. No. 1,338,455; Apr. 27; v. 273; p. 725.

Locomobile Company of America, The. (See Roos, Delmar G., assignor.)

Locomotive Firebox Company. (See Nicholson, John L., assignor.)

Locomotive Pulverized Fuel Company. (See Caracristi, Virginius Z., assignor.)

Loeven, William, Chicago, Ill. Wrench. No. 1,338,313; Apr. 27; v. 273; p. 698.

Logan, Nels., Albert Lea, Minn. Cattle-stanchion. No. 1,336,975; Apr. 13; v. 273; p. 301.

Lohse, Otto C., Bloomington, Ill. Automobile protective device. No. 1,336,306; Apr. 6; v. 273; p. 113.

Long, Levett A., assignor to F. A. Tranchant, Dayton, Ohio. Insect-trap. No. 1,335,845; Apr. 6; v. 273; p. 26.

Long, Russel L., Morgantown, W. Va. Water-motor for egg-beaters. No. 1,337,478; Apr. 20; v. 273; p. 470.

Long, Willard O., Mansfield, Ohio. Harrow. No. 1,336,642; Apr. 13; v. 273; p. 237.

Lonskey, John H., assignor to Central Specialty Company, Detroit, Mich. Molding-machine. No. 1,337,780; Apr. 20; v. 273; p. 528.

Loomis, Allen, Detroit, Mich. Key mechanism for wood wind instruments. No. 1,336,359; Apr. 6; v. 273; p. 124.

Loomis, Arthur H., Las Cruces, N. M. Walking toy horse. No. 1,337,479; Apr. 20; v. 273; p. 470.

Loomis, Harry T., Brooklyn, N. Y. Burial-garment and making same. No. 1,336,248; Apr. 6; v. 273; p. 103.

Looney, William E., Detroit, Mich. Internal-combustion engine. No. 1,338,185; Apr. 27; v. 273; p. 674.

Loose-Wiles Biscuit Company. (See Wachtel, William W., assignor.)

Lorenzen, Charles F., Oak Park, Ill. Toy building and design block. No. 1,337,664; Apr. 20; v. 273; p. 506.

Loring, William C., Hartford, and C. E. Jacobson, Manchester, assignors to A. F. Way Company, Incorporated, Hartford, Conn. Metal-working machine. No. 1,338,456; Apr. 27; v. 273; p. 725.

Louden Machinery Company. (See Neller, Albert H., assignor.)

Loudon, Dorr F., New York, N. Y. Plant-stand. No. 1,336,307; Apr. 6; v. 273; p. 114.

Lovell, John W., Cabery, Ill. Automobile-chassis. No. 1,338,383; Apr. 27; v. 273; p. 712.

Lovrencic, Slavko. (See Libenschek, Rudolf, assignor.)

Low, John W., Joliet, Ill. Method of and apparatus for coating paper-board with paraffin or the like. No. 1,336,528; Apr. 13; v. 273; p. 215.

Lowdermilk, Alfred J., Mount Gilead, N. C. Sectional boat. No. 1,337,781; Apr. 20; v. 273; p. 528.

Lowe, Dempsey, Akron, Ohio. Tire-tube-making apparatus. No. 1,337,930; Apr. 20; v. 273; p. 557.

Lowe, William H. (See Piettner, O. L., and Lowe.)

Lower, Melvin S., Barberton, Ohio. Manufacturing rubber hot-water bottles. No. 1,338,314; Apr. 27; v. 273; p. 699.

Lowry, Jesse R., St. Joseph, Mo. Differential for self-propelling vehicles. No. 1,336,643; Apr. 13; v. 273; p. 237.

Loyland, Betsie K., Thief River Falls, Minn., assignor of one-half to T. K. Hofto, Grand Forks, N. D. Picture-frame holder and hanger. No. 1,338,384; Apr. 27; v. 273; p. 712.

Lucas, John, Bridgeport, Conn. Composition for casting molds. No. 1,338,141; Apr. 27; v. 273; p. 666.

Luck, Charles A., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Fountain-pen. No. 1,336,572; Apr. 13; v. 273; p. 223.

Ludwig, De Forest W., Pittsburgh, Pa. Floral device. No. 1,336,249; Apr. 6; v. 273; p. 103.

Luellen, Lawrence W. (See Hammond, W. P., and Luellen.)

Luellen, Lawrence W., New York, N. Y., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing apparatus. No. 1,336,469; Apr. 13; v. 273; p. 204.

Luellen, Lawrence W., Mountain Lakes, N. J., assignor, by mesne assignments, to Individual Drinking Cup Company. Cup-dispenser. No. 1,337,843; Apr. 20; v. 273; p. 540.

Lultwieler, Clarence S., *et al.* (See Presby, Leroy Q., assignor.)

Lumley, Gascoigne, Lagos, Nigeria, West Africa. Gland and packing of centrifugal sand-pumps. No. 1,336,308; Apr. 6; v. 273; p. 114.

Lummus, Walter E., Lynn, Mass. Treating gas-vapor mixtures. No. 1,336,360; Apr. 6; v. 273; p. 124.

Lundell, Alben E., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Machine-switching telephone-exchange system. No. 1,337,710; Apr. 20; v. 273; p. 515.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,711; Apr. 20; v. 273; p. 515.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,712; Apr. 20; v. 273; p. 515.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,782; Apr. 20; v. 273; p. 528.

Lundin, Adolf P., Johannesburg, Transvaal, South Africa. Bicycle-pump lock. No. 1,338,512; Apr. 27; v. 273; p. 736.

Lundmark, Lars A., Lorraine, Wis. Punch. No. 1,336,529; Apr. 13; v. 273; p. 215.

Lundy, George B., Niagara Falls, South, Ontario, Canada. Auxiliary floor for threshing-machines. No. 1,338,142; Apr. 27; v. 273; p. 666.

Lunken, Edmund H., Cincinnati, Ohio. Pocket-window. No. 1,336,145; Apr. 6; v. 273; p. 84.

Luttrell, John D., Benton Harbor, Mich., assignor to Service Carbide Lamp Company, Terre Haute, Ind. Acetylene-gas generator. No. 1,336,573; Apr. 13; v. 273; p. 224.

Lux Clock Manufacturing Company, The. (See Lux, Paul, assignor.)

Lux, Paul, assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Pawl-spring. No. 1,338,641; Apr. 27; v. 273; p. 759.

Lydecker, John G., New York, N. Y., assignor of one-half to W. F. Cleary, Hawthorn, N. J. Motorcycle-support. No. 1,338,029; Apr. 27; v. 273; p. 645.

Lyman, John L., Easthampton, Mass. Garment-hanger. No. 1,335,902; Apr. 6; v. 273; p. 37.

Lyon, Horace K., Tulsa, Okla. Apparatus for producing sulfur dioxid. No. 1,337,561; Apr. 20; v. 273; p. 486.

Lyster, Gilbert H. (See Goodwin, George N., assignor.)

McAllaster, George R., Rochester, N. Y. Folding bed. No. 1,337,321; Apr. 20; v. 273; p. 441.

McAllister, Albert, assignor to Apromet Company, Pittsburgh, Pa. Sash-operating mechanism. No. 1,337,461; Apr. 20; v. 273; p. 467.

McAlpine, George E., Catford, assignor to J. J. Griffin & Sons, Limited, Holborn, England. Firing mechanism for shells and other explosive missiles. No. 1,337,525; Apr. 20; v. 273; p. 480.

McArthur, Charles H., Cleveland, Ohio. Separating-machine. No. 1,336,848; Apr. 13; v. 273; p. 277.

McArthur, Clyde E. (See Schmidt, J. E., and McArthur.)

McAuliffe, John W., Pelham, N. Y. Sanitary package of individual sealed cartons. No. 1,338,315; Apr. 27; v. 273; p. 699.

McBee Binder Company, The. (See McBee, Charles F., assignor.)

McBee, Charles F., assignor to The McBee Binder Company, Athens, Ohio. Perforating device. No. 1,338,457; Apr. 27; v. 273; p. 725.

McBride, Bert, Ada, Ohio. Bag-holder. No. 1,336,530; Apr. 13; v. 273; p. 215.

McCaffery, Richard S., Madison Wis. Bessemerizing iron. No. 1,338,655; Apr. 27; v. 273; p. 762.

McCaffrey, Andrew A., Providence, R. I. Garment-hanger. No. 1,336,849. Apr. 13; v. 273; p. 277.

McCaleb, Walter F., Dallas, Tex. Combined adding and listing machine. No. 1,337,844; Apr. 20; v. 273; p. 540.

McCarter, George, Denver, Colo. Coal-mining machine. No. 1,336,039; Apr. 6; v. 273; p. 63.

McCarthy, John M., Chicago, Ill. License-indicator. No. 1,336,706; Apr. 13; v. 273; p. 250.

McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Tenoning and equalizing machine. No. 1,337,143; Apr. 13; v. 273; p. 333.

McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Means for lubricating machine-tools. No. 1,337,931; Apr. 20; v. 273; p. 557.

McCaskell, Jasper A., Salt Lake City, Utah. Filtering-belt. No. 1,338,232; Apr. 27; v. 273; p. 683.

McClellan, Curtis D., and J. Flynn, Washington, Iowa. Figured toy. No. 1,337,932; Apr. 20; v. 273; p. 557.

McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Co., Seattle, Wash. Railway-car truck. No. 1,336,361; Apr. 6; v. 273; p. 124.

McClure, Royal A., and W. W. Boulton, assignors to Universal Elevated Railway Company, Seattle, Wash. Turntable. No. 1,336,362; Apr. 6; v. 273; p. 124.

McColl, Francis P., Ridgewood, N. J., and W. W. Willison, assignors to Thermokept Products Corporation, New York, N. Y. Can. No. 1,337,526; Apr. 20; v. 273; p. 480.

McComb, William M., assignor to W. J. Patterson, trustee, New York, N. Y. Converting liquid hydrocarbons. No. 1,337,144; Apr. 13; v. 273; p. 333.

McConway & Torley Company, The. (See Kelso, William, assignor.)

McCord, Alvin C., Chicago, Ill. Journal-box. No. 1,337,238; Apr. 30; v. 273; p. 425.

McCormack, Harry, assignor to Research Laboratory of Chicago, Chicago, Ill. Making manganates. No. 1,337,239; Apr. 20; v. 273; p. 425.

McCormick, Oscar L., Birmingham, Ala. Vulcanizer's die for preserving antiskid tire-treads. No. 1,338,233; Apr. 27; v. 273; p. 683.

McCoy, Elijah, assignor to Elijah McCoy Manufacturing Company, Detroit, Mich. Air-brake-pump lubricator. No. 1,338,385; Apr. 27; v. 273; p. 712.

McCoy, Elijah, Manufacturing Company. (See McCoy, Elijah, assignor.)

McCoy, Henry E., and F. J. Tarr, Sapulpa, Okla. Sampling device. No. 1,336,250; Apr. 6; v. 273; p. 103.

McCready, George L., Parksley, Va. Vine-cutter. No. 1,336,976; Apr. 13; v. 273; p. 301.

McCreary, James H. (See Babcock, H. C., and McCreary.)

McCuaig, Duncan H., Wahkon, Minn. Antikicker for cows. No. 1,337,406; Apr. 20; v. 273; p. 457.

McCullough, William T., Pittsburgh, Pa. Signaling torpedo. No. 1,337,240; Apr. 20; v. 273; p. 426.

McCurdy, Arville E., Washington, D. C. Automobile-signal. No. 1,336,644; Apr. 13; v. 273; p. 237.

McDonald, John, Montreal, Quebec, Canada. Shoe-fastening device. No. 1,336,146; Apr. 6; v. 273; p. 84.

McDonald, Stephen F., Cleveland, Ohio. Ventilator. No. 1,336,470; Apr. 13; v. 273; p. 204.

McEntire, Ronald G. J., Dublin, Ireland. Device for making hypodermic injections. No. 1,338,386; Apr. 27; v. 273; p. 712.

McGee, Frank R., Steubenville, Ohio. Method of and apparatus for cleaning gases. No. 1,338,143; Apr. 27; v. 273; p. 666.

McGeouch, William F., Arlington, and G. C. Beckwith, Somerville, assignors to Boston Woven Hose & Rubber Co., Boston, Mass. Apparatus for forming cartons or boxes. No. 1,337,845; Apr. 20; v. 273; p. 540.

McGirr, Alexander F., Metcalfe, Ontario, Canada. Barn. No. 1,336,471; Apr. 13; v. 273; p. 204.

McGranahan, Charles. (See Paar, Henry, assignor.)

McGrother, Joseph F., and J. L. Deen, Philadelphia, Pa. Device for preventing leakage around the valve-stems of internal-combustion engines. No. 1,338,186; Apr. 27; v. 273; p. 674.

McGuckin, John J., Brooklyn, assignor to Stevens & Company, New York, N. Y. Bicycle-crank. No. 1,337,765; Apr. 20; v. 273; p. 525.

McIlhiney, Parker C., Great Neck, N. Y., assignor to California Alkali Company, San Francisco, Calif. Recovery of potassium salts. No. 1,338,234; Apr. 27; v. 273; p. 684.

McIlhiney, Parker C., Great Neck, N. Y., assignor to California Alkali Company, San Francisco, Calif. Recovery of potassium salts. No. 1,338,235; Apr. 27; v. 273; p. 684.

McIver, Francis F., Jr., Chappaqua, N. Y. Heated-air-supply apparatus for cloth-driers. No. 1,338,513; Apr. 27; v. 273; p. 736.

McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Fuel-injection device for internal-combustion engines. No. 1,338,316; Apr. 27; v. 273; p. 699.

McLaughlin, Frederick, Canton, Ill. Antiskidding armor for truck-tires. No. 1,336,363; Apr. 6; v. 273; p. 124.

McLaughlin, Wilson L., Decatur, Ill. Apparatus for treating fuel. No. 1,336,364; Apr. 6; v. 273; p. 125.

McLeod, John H., Topeka, Kans. Road-machine. No. 1,337,241; Apr. 20; v. 273; p. 426.

McLoughlin, William C., Fitzroy, Victoria, Australia. Spinning-machine. No. 1,338,577; Apr. 27; v. 273; p. 747.

McManis, John V., Dayton, Ohio. Osteopathic table. No. 1,337,145; Apr. 13; v. 273; p. 333.

McManus, James P. (See Breckenridge, George M., assignor.)

McMullen, John, Buffalo, N. Y. Safety device for brake-beams and the like. No. 1,338,317; Apr. 27; v. 273; p. 699.

McMurry, Fred R., Westwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling mechanism. No. 1,337,783; Apr. 20; v. 273; p. 529.

McNamara, James, Portland, Oreg. Pressure-regulator. No. 1,335,903; Apr. 6; v. 273; p. 37.
McNeil, Charles R., New York, N. Y. Musical-instruction chart. No. 1,338,236; Apr. 27; v. 273; p. 684.
McNeill, Claude P. (See Wilson, R. E., and McNeil.)
McNeill, Herbert M., Wanganui, New Zealand. Implement for use on lawns. No. 1,338,144; Apr. 27; v. 273; p. 666.
McPartland, James H., Houlton, Me. Sewing-machine. No. 1,336,365; Apr. 6; v. 273; p. 125.
McPherson, Arthur E., assignor to J. Rosenthal, Beaumont, Tex. Demountable rim. No. 1,338,145; Apr. 27; v. 273; p. 667.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,713; Apr. 20; v. 273; p. 515.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,337,714; Apr. 20; v. 273; p. 516.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,715; Apr. 20; v. 273; p. 516.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,337,784; Apr. 20; v. 273; p. 529.
McWhirter, John S., New York, N. Y. Electric heating system. No. 1,338,088; Apr. 27; v. 273; p. 656.
Macdonald, Harry P., Montclair, assignor to The Snead & Co. Iron Works, Jersey City, N. J. Method of and apparatus for heat-treating metallic articles. No. 1,335,977; Apr. 6; v. 273; p. 52.
MacDonald, John, & Son. (See Walker, William, assignor.)
Macé, Jules, Grasse, France. Safety keyless lock. No. 1,337,242; Apr. 20; v. 273; p. 426.
Macé, Jules, Grasse, France. Dial. No. 1,337,243; Apr. 20; v. 273; p. 426.
Macfadden, Bernarr, New York, N. Y. Spine-exerciser. No. 1,336,910; Apr. 13; v. 273; p. 289.
Machlet, Adolph W., Elizabeth, N. J. Apparatus for case-hardening, &c. No. 1,337,244; Apr. 20; v. 273; p. 426.
Mack, James O., Alexandria, La. Tunneling apparatus. No. 1,338,237; Apr. 27; v. 273; p. 684.
Mack, Joe S., Calipatria, Calif. Wagon-reach. No. 1,336,645; Apr. 13; v. 273; p. 237.
Mackay, George M. J., Schenectady, N. Y., assignor to General Electric Company. Electric oscillator. No. 1,337,933; Apr. 20; v. 273; p. 558.
MacKenzie, Chester M. (See Herman, S. J., and MacKenzie.)
Macneir, Edwin, Philadelphia, Pa., assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio. Water-gage. No. 1,335,904; Apr. 6; v. 273; p. 38.
Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass. Rebealing process for condensers. No. 1,337,245; Apr. 20; v. 273; p. 427.
Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company, Ltd., Boston, Mass. Building-stand for condensers. No. 1,337,246; Apr. 20; v. 273; p. 427.
Maddox, Robert D., U. S. Army. Mixing and grinding apparatus irregularly operated. No. 1,337,716; Apr. 20; v. 273; p. 516.
Madison, Arthur E., Redlands, Calif. Marble-shooter. No. 1,337,934; Apr. 20; v. 273; p. 558.
Madison Kipp Corporation. (See Coles, Wilfred G., assignor.)
Madison, Mart J., assignor to Weir Frog Company, Norwood, Ohio. Rail-bolt. No. 1,337,365; Apr. 20; v. 273; p. 449.
Maeda, Rinsai, Seattle, Wash. Surgical tourniquet. No. 1,338,578; Apr. 27; v. 273; p. 748.
Magimorec, Andrew, Pittsburgh, Pa. Car-dump-door operator. No. 1,338,387; Apr. 27; v. 273; p. 713.
Maier, Clarence J., Dayton, Ohio. Means for controlling the flow of water through hose. No. 1,337,247; Apr. 20; v. 273; p. 427.
Maier, Fred, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Retreading tires. No. 1,336,911; Apr. 13; v. 273; p. 289.
Mainthow, Walter J., New York, N. Y. Garment. No. 1,338,187; Apr. 27; v. 273; p. 674.
Majerus, John B., Bellechester, Minn. Grain-elevator. No. 1,338,514; Apr. 27; v. 273; p. 736.
Maker, Ralph K., assignor to J. Goldsmith, Jr., Providence, R. I. Hair-curling device. No. 1,338,388; Apr. 27; v. 273; p. 713.
Malaczynski, Peter, Brooklyn, N. Y. Padlock. No. 1,336,309; Apr. 6; v. 273; p. 114.
Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)
Mallett, Gerald G., Princeton, Ark. Handle-securing means. No. 1,336,707; Apr. 13; v. 273; p. 250.
Maloney, Michael F. (See Leonard, P. A., Maloney, and Faudrich.)
Malthaner, John F., Atlanta, Ga. Recording-telephone. No. 1,335,978; Apr. 6; v. 273; p. 52.
Malys, Joseph B., East Youngstown, Ohio. Safety-lock. No. 1,337,085; Apr. 13; v. 273; p. 322.
Mancha, Raymond, assignor to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Storage-battery locomotive. No. 1,337,610; Apr. 20; v. 273; p. 495.
Mancha Storage Battery Locomotive Company. (See Mancha, Raymond, assignor.)
Mandel Corporation, The. (See Bell, R. T., and Mandel, assignors.)
Mandel, Louis. (See Bell, R. T., and Mandel.)
Manhattan Electrical Supply Company. (See Avery, Charles E., assignor.)
Manikowske, George. (See Clipfell, C. D., and Manikowske.)
Manley, Robert E., York, Pa. Engine-stand. No. 1,336,912; Apr. 13; v. 273; p. 289.
Mann, George W., Pierce City, Mo. Pressure-regulator. No. 1,337,248; Apr. 20; v. 273; p. 427.
Manning, Arthur H., Colorado Springs, Colo. Automatic clutch. No. 1,336,472; Apr. 13; v. 273; p. 204.
Manternach, John C., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,336,531; Apr. 13; v. 273; p. 215.
Marcil, Henri E., Montreal, Quebec, Canada. Bottle. No. 1,337,979; Apr. 20; v. 273; p. 567.
Mardick, John R., New York, assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,335,788; Apr. 6; v. 273; p. 16.
Mardick, John R., New York, assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive and preparing same. No. 1,335,790; Apr. 6; v. 273; p. 16.
Mardick, John R., New York, and F. M. Becket, assignors to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,335,789; Apr. 6; v. 273; p. 16.
Mardis, Paul L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,574; Apr. 13; v. 273; p. 224.
Margotta, Horace, Scranton, Pa. Railway signal system. No. 1,337,935; Apr. 20; v. 273; p. 558.
Marhenke, August H., New York, N. Y. Siphon-starter. No. 1,336,310; Apr. 6; v. 273; p. 114.
Marion Foundry Corporation. (See Close, Leonard L., assignor.)
Marks, Albert, New Britain, Conn. Numbering-stamp and the like. No. 1,335,746; Apr. 6; v. 273; p. 8.
Markstedt, Carl M. (See Blum, Elias, assignor.)
Marlin-Rockwell Corporation, The. (See Rockwell, Hugh M., assignor.)
Marmon Chicago Company, The. (See Olson, William O., assignor.)
Marsh, Chester A., Bay City, Mich. Hydroaero-machine. No. 1,336,473; Apr. 13; v. 273; p. 204.
Marsh, Leon E., Los Angeles, Calif. Baby-nipple protector. No. 1,336,366; Apr. 6; v. 273; p. 125.
Marshall, James F., Auburn, assignor of one-half to Dunn & McCarthy, Binghamton, N. Y. Shoe and making same. No. 1,336,784; Apr. 13; v. 273; p. 265.
Marshall, John W., Butte, Mont. Pulley-attachment device. No. 1,337,249; Apr. 20; v. 273; p. 427.
Marshall, Stanley G., Hebbronville, Tex. Lens-holder. No. 1,337,086; Apr. 13; v. 273; p. 323.
Marshall, Ward E., near Brookville, Ohio. Cultivator. No. 1,337,407; Apr. 20; v. 273; p. 457.
Martin, Albert W., Indianapolis, and J. N. Martin, Beech Grove, Ind. Grease-cup. No. 1,337,717; Apr. 20; v. 273; p. 516.
Martin, Benjamin W., Zanesville, and H. Sams, Akron, Ohio. Machine for placing washers in heel-molds. No. 1,336,319; Apr. 6; v. 273; p. 116.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Ticket printing and issuing machine. No. 1,338,238; Apr. 27; v. 273; p. 684.
Martin, Jacob N. (See Martin, Albert W. and J. N.)
Martin, Jose R., Brooklyn, N. Y. Boring-bar. No. 1,336,311; Apr. 6; v. 273; p. 114.
Martin, Otto V., Fort Smith, Ark. Promoting body preservation in mausoleums. No. 1,338,579; Apr. 27; v. 273; p. 748.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire party-line lockout telephone system. (Reissue.) No. 14,846; Apr. 20; v. 273; p. 569.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,338,318; Apr. 27; v. 273; p. 700.
Martindale, Perry D., Pontiac, Mich. Ironing-board. No. 1,337,936; Apr. 20; v. 273; p. 558.
Martineau, Clarence R. (See Martineau, William C. and C. R.)
Martineau, William C. and C. R., Albany, N. Y. Fruit-jar. No. 1,336,367; Apr. 6; v. 273; p. 125.
Martinez, Regino A., assignor to P. E. Girard, Buenos Aires, Argentina. Igniting substance. No. 1,338,389; Apr. 27; v. 273; p. 713.
Marulli, Ernesto C., Holyoke, Mass. Valve. No. 1,337,462; Apr. 20; v. 273; p. 467.
Marvel Machinery Company. (See De Forest, Edgar A., assignor.)
Maschino, John A. (See Flum, E. L., and Maschino.)
Mason, Summer R., assignor to Western Electric Company, Incorporated, New York, N. Y. Cleansing ferrous and non-ferrous metals. No. 1,337,718; Apr. 20; v. 273; p. 516.
Massie, Thomas K., Athens, W. Va. Silo. No. 1,335,747; Apr. 6; v. 273; p. 8.
Mathewson, Henry B., San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass. Lens-testing instrument. No. 1,336,040; Apr. 6; v. 273; p. 64.

Mathias, George V., Humboldt, Kans. Chain-coupling. No. 1,337,846; Apr. 20; v. 273; p. 541.
Matter, Albert J., Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company. Machine for attaching staples and particularly for attaching buttons to articles. No. 1,336,786; Apr. 13; v. 273; p. 265.
Matter, Albert J., Portland, Oreg., assignor to Nu Automatic Button Attaching Machine Company. Button-attaching machine. No. 1,336,787; Apr. 13; v. 273; p. 265.
Matter, Albert J., and F. V. Conley, assignors to Nu Automatic Button Attaching Machine Company, Portland, Oreg. Machine for effecting orderly distribution of articles, particularly buttons. No. 1,336,785; Apr. 13; v. 273; p. 265.
Matthaei, Lillian M., New York, N. Y. Bodkin. No. 1,337,480; Apr. 20; v. 273; p. 471.
Matthews, Vernon, Carthage, Mo. Tractor-hitch. No. 1,336,474; Apr. 13; v. 273; p. 205.
Mattis, John M., Sioux City, Iowa. Workbench, crane, and engine-stand, combined. No. 1,337,847; Apr. 20; v. 273; p. 541.
Matys, Joseph, East Brimfield, Mass. Searchlight-firearm. No. 1,338,239; Apr. 27; v. 273; p. 684.
Matz, Adline M., Valley City, N. D. Hathox. No. 1,337,087; Apr. 13; v. 273; p. 323.
Mauerhofer, Louis, Paris, France. Autoclave-tray for cooking glue. No. 1,337,146; Apr. 13; v. 273; p. 333.
Maune, Ervin H., *et al.* (See Wertz, T., and Springmeyer, assignors.)
Maxfield, James B., Spokane, Wash. Collar-fastener. No. 1,336,147; Apr. 6; v. 273; p. 84.
Maxim, Hosea F., assignor of one-half to O. Wells, Norfolk, Va. Connector for electrical conductors. No. 1,336,850; Apr. 13; v. 273; p. 278.
Maxwell, Annie L., Waco, Tex. Device for teaching music. No. 1,337,937; Apr. 20; v. 273; p. 558.
May, Benjamin. (See Codos, J., and May.)
Mayers, Wilbur S., Fairmont, W. Va. Automatic conveyer and leer. No. 1,338,240; Apr. 27; v. 273; p. 685.
Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Booklet-stitching machine. No. 1,336,251; Apr. 6; v. 273; p. 103.
Mayne, John A. (See Fisher, Olive, assignor.)
Mayo, Joseph E., assignor of one-half to G. C. Bassett, Sacramento, Calif. Machine for the mechanical application of paints and other liquids. No. 1,336,041; Apr. 6; v. 273; p. 64.
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Electrical connector. No. 1,336,475; Apr. 13; v. 273; p. 205.
Meadowcroft, Charles W., Sr., assignor to Miller Lock Company, Philadelphia, Pa. Key-bearing for padlocks. No. 1,338,515; Apr. 27; v. 273; p. 737.
Meadowcroft, John R., Montreal, Quebec, Canada. Alarm-actuating apparatus. No. 1,338,146; Apr. 27; v. 273; p. 667.
Meadowcroft, John R., Montreal, Quebec, Canada. Alarm-actuating apparatus. No. 1,338,147; Apr. 27; v. 273; p. 667.
Measuregraph Company. (See Hosch, Walter E., assignor.)
Measuregraph Company, The. (See Turner, Douglas, assignor.)
Mecky, A., Company. (See Papini, Antonio, assignor.)
Meeker, Charles W. (See Hensley, Bird F., assignor.)
Meem, James C., assignor of one-half to F. L. Cranford, Brooklyn, N. Y. Tunnel and excavating. No. 1,338,030; Apr. 27; v. 273; p. 645.
Megnerditchian, Hairabed M., Green Island, N. Y. Apparatus for raising sunken vessels. No. 1,337,250; Apr. 20; v. 273; p. 427.
Mehlhorn, William M. (See Cromwell, J. C., and Mehlhorn.)
Mehlin, Charles, Fort Lee, N. J. Piano. No. 1,335,791; Apr. 6; v. 273; p. 17.
Meling, Gustave R. (See Meling, Randolph and G. R.)
Meling, Randolph and G. R., Chicago, Ill. Binocular. No. 1,338,241; Apr. 27; v. 273; p. 685.
Melrose, George C., Redondo Beach, and H. W. Melsose, Glendale, Calif. Silent railway-crossing. No. 1,337,527; Apr. 20; v. 273; p. 480.
Melrose, Herman W. (See Melrose, George C. and H. W.)
Mendel, Michael, Middle Village, N. Y. Square and miter attachment for saws. No. 1,338,188; Apr. 27; v. 273; p. 675.
Mendenhall, John J., Clearwater, Fla. Safety-envelop. No. 1,336,646; Apr. 13; v. 273; p. 237.
Mendenhall, John J., Raiford, Fla. Valve for chambered heat insulating walls. No. 1,337,611; Apr. 20; v. 273; p. 496.
Mennen, Antone, Milwaukee, Wis. Railway-crossing signal. No. 1,336,913; Apr. 13; v. 273; p. 289.
Meredith-Jones, H., New York, N. Y. Safety centrifugal percussion base-fuse. No. 1,336,701; Apr. 13; v. 273; p. 249.
Merriam, Cyrus B., Detroit, Mich. Fastener. No. 1,337,938; Apr. 20; v. 273; p. 558.
Merrick, Frank W., *et al.* (See Presby, Leroy L., assignor.)
Merritt, Labe, Creedmore, N. C. Valve-grinder. No. 1,335,979; Apr. 6; v. 273; p. 52.
Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic process and product. No. 1,335,846; Apr. 6; v. 273; p. 26.
Mertens, Paul, Newark, and H. Backert, Irvington, N. J. Handle for knives, &c. No. 1,335,847; Apr. 6; v. 273; p. 27.
Messinger, William, Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del. Garment-drying apparatus. No. 1,338,031; Apr. 27; v. 273; p. 645.
Messler, Eugene L. (See Baehr, G., and Messler.)
Metals Extraction Corporation, The. (See Field, Samuel, assignor.)
Metals Extraction Corporation, The. (See Sulman, H. L., and Field, assignors.)
Metham, Henry H. (See Muckenfuss, Charles, assignor.)
Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Separating alkali cyanid from alkali carbonate. No. 1,337,019; Apr. 13; v. 273; p. 309.
Meyer, Nicolaas, E. G. (See Schoute, C. van Heyst, and Meyer.)
Meyers, Charles E., Chicago, Ill. Device for operating furnace-doors. No. 1,336,476; Apr. 13; v. 273; p. 205.
Meyers, George W., Rahway, N. J., assignor to National Pennmatic Company, New York, N. Y. Combined propelling-motor and door-operating mechanism for cars. No. 1,336,477; Apr. 13; v. 273; p. 205.
Mica Condenser Company. (See Macpherson, Byron, assignor.)
Michalek, Rudolph B., Newark, N. J. Toy gun. No. 1,338,458; Apr. 27; v. 273; p. 725.
Midgley, Thomas, Jr., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. Circuit-breaker. No. 1,337,366; Apr. 20; v. 273; p. 449.
Mikalkavitch, Steve. (See Antonuk, Lawrenty.)
Miles, John, Ontonagon, Mich. Saw-gummer. No. 1,336,042; Apr. 6; v. 273; p. 64.
Milker, Herbert P., assignor to C. J. Taglinbue Manufacturing Co., Brooklyn, N. Y. Air-filter. No. 1,337,020; Apr. 13; v. 273; p. 309.
Mill, Anton, Cincinnati, Ohio. Friction-clutch. No. 1,335,748; Apr. 6; v. 273; p. 8.
Miller, Arthur E., Sacramento, Calif. Protector for books. No. 1,337,612; Apr. 20; v. 273; p. 496.
Miller, Charles A., assignor to Worcester Metal Goods Company, Waterbury, Conn. Separable fastener. No. 1,337,785; Apr. 20; v. 273; p. 529.
Miller, Charles E., Pittsburgh, Pa. Spade. No. 1,335,848; Apr. 6; v. 273; p. 27.
Miller, Elmer, Boonton, N. J. Non-refillable bottle. No. 1,336,252; Apr. 6; v. 273; p. 104.
Miller, Frank J. (See Thorn, R. H., and Miller.)
Miller, Frank W., Bethel, Mo. Garment-supporter. No. 1,336,312; Apr. 6; v. 273; p. 115.
Miller, George F., New York, N. Y. Filter-press frame. No. 1,337,251; Apr. 20; v. 273; p. 428.
Miller, George J. (See Richardson, Elmer E., assignor.)
Miller, George W., San Francisco, Calif. Vending-machine. No. 1,336,478; Apr. 13; v. 273; p. 205.
Miller, Henry L. (See De Vilbiss, J. A., and Miller.)
Miller, Jeremiah, Ottawa, W. Va. Combined fork, rake, and knife. No. 1,337,939; Apr. 20; v. 273; p. 559.
Miller, John C., Covington, Ky., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Bottle feeding and moving mechanism. No. 1,336,788; Apr. 13; v. 273; p. 266.
Miller, John J. A., Denver, Colo. Power-conserving air-channel propeller for flying-machines. No. 1,338,516; Apr. 27; v. 273; p. 737.
Miller, John L., Fort Collins, Colo. Bank-check. No. 1,336,647; Apr. 13; v. 273; p. 238.
Miller, Joseph B. (See Jeffries, Oscar S., Sr., assignor.)
Miller Lock Company. (See Meadowcroft, Charles W., Sr., assignor.)
Miller Pasteurizing Machine Company, The. (See Miller, John C., assignor.)
Miller Rubber Company, The. (See Brundage, James W., assignor.)
Miller Train Control Corporation, The. (See Murray, William B., assignor.)
Miller, Willis I., Cleveland, Ohio. Telephone-support. No. 1,336,253; Apr. 6; v. 273; p. 104.
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Alloy. No. 1,338,517; Apr. 27; v. 273; p. 737.
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, trustees. Alloy. No. 1,338,518; Apr. 27; p. 273; p. 737.
Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Measuring device for fence-machines. No. 1,335,980; Apr. 6; v. 273; p. 53.
Mills, George E., Watertown, Mass. Circuit-closer for liquid-level indicators. No. 1,337,252; Apr. 20; v. 273; p. 428.
Millsap, Leander W., Jr., Los Angeles, Calif. Hand-printer for mailer-strips and proof-sheets. No. 1,338,642; Apr. 27; v. 273; p. 759.
Milne, W. J., *et al.* (See Super, Frank J., assignor.)
Milwaukee Auto Engine & Supply Company. (See Traupmann, Raymond J., assignor.)
Minerals Separation North American Corporation. (See Edser, E., and Tucker, assignors.)
Mining Safety Device Company, The. (See Nolan, James A., assignor.)
Minville, H. R. (See Toups, Wilson, assignor.)
Misco, Steve, Gary, W. Va. Mail-bag catcher and deliverer. No. 1,336,851; Apr. 13; v. 273; p. 278.

Mitchell, Raymond C., assignor to The Webster & Perks Tool Company, Springfield, Ohio. Grinding-machine. No. 1,335,905; Apr. 6; v. 273; p. 38.
Mitchell, William A., East St. Louis, Ill. Draft-regulating device. No. 1,337,786; Apr. 20; v. 273; p. 529.
Mitchell, William M., Louisville, Ky. Rail-anchor. No. 1,338,148; Apr. 27; v. 273; p. 667.
Mitchell, William M., Louisville, Ky. Rail-anchor. No. 1,338,149; Apr. 27; v. 273; p. 667.
Mix, Melville W., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Laminated wheel-filler unit. No. 1,336,254; Apr. 6; v. 273; p. 104.
Moard, Ferdinand G., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,338,321; Apr. 27; v. 273; p. 700.
Moats, Ortus E., Chicago, assignor to Western Wheeled Scraper Company, Aurora, Ill. Road planing and finishing machine. No. 1,335,906; Apr. 6; v. 273; p. 38.
Moburg, Frank O. (See Hedenburg, Oscar F., assignor.)
Modern Broom Machinery Company. (See Duvall, G. W., Beebe, and Smith, assignors.)
Moest, Martin, Höchst-on-the-Main, and E. Schirm, Unterliederbach, near Höchst-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of organic acids and acid anhydrids. No. 1,337,253; Apr. 20; v. 273; p. 428.
Molse, Harmon D., Sumter, S. C., assignor to The Hoseless Sprinkler Company, a Corporation of South Carolina. Sprinkling attachment for garden-faucets. No. 1,338,242; Apr. 27; v. 273; p. 685.
Mojonnier, Julius J., Oak Park, assignor, by mesne assignments, to Mojonnier Bros. Co., Chicago, Ill. Laboratory-dish. No. 1,336,043; Apr. 6; v. 273; p. 64.
Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
Monahan Rotary Engine Corporation. (See Sullivan, Patrick J. M., assignor.)
Montague Iron Works Corporation. (See Ewen, Malcolm F., assignor.)
Montague, Merrell S., assignor of one-half to J. W. Jones, Rigby, Idaho. Beet-harvester. No. 1,337,481; Apr. 20; v. 273; p. 471.
Montgomery, James H., Butte, Mont. Grease-dispensing device. No. 1,338,519; Apr. 27; v. 273; p. 737.
Moon-Hopkins Billing Machine Co. (See Hopkins, Hubert, assignor.)
Moon-Hopkins Billing Machine Company. (See Harvey, Corbin L., assignor.)
Moon-Hopkins, Billing Machine Company. (See Thieme, O., and Mueller, assignors.)
Moon, William F., Milwaukee, Wis. Yarn-speck remover. No. 1,336,148; Apr. 6; v. 273; p. 84.
Moore, Claude, Cedar Rapids, Iowa. Self-cleaning rake. No. 1,338,459; Apr. 27; v. 273; p. 726.
Moore, George F., Carman, Ill. Scaffold-bracket. No. 1,337,088; Apr. 13; v. 273; p. 323.
Moore, William J. P., New York, N. Y. Electrical control mechanism for automobiles and other vehicles and machines. No. 1,337,613; Apr. 273; p. 496.
Moores, George W., Sun City, Kans. Muffler. No. 1,338,520; Apr. 27; v. 273; p. 737.
Morales, George. (See Guyer, J., and Morales.)
More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Gearing for washing-machines. No. 1,336,086; Apr. 6; v. 273; p. 72.
Morey, Charles C., Great Falls, Mont. Filing-tool. No. 1,337,940; Apr. 20; v. 273; p. 559.
Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-wheel suspension for track-laying tractors. No. 1,337,787; Apr. 20; v. 273; p. 529.
Morgan, Mathew B., Cleveland Heights, W. D. Collins, East Cleveland, and G. T. Kinney, Cleveland, assignors to The Cleveland Tractor Company, Euclid, Ohio. Means for dust-proofing rotating gear-cases. No. 1,338,032; Apr. 27; v. 273; p. 646.
Morgan, William J., Bressler, Pa. Shoe-heel construction. No. 1,338,580; Apr. 27; v. 273; p. 748.
Morgan, William J., assignor of one-half to L. Hubsman, Peckville, Pa. Coin-wrapper. No. 1,337,941; Apr. 20; v. 273; p. 559.
Morgan & Wright. (See Wullenweber, Ernest A., assignor.)
Morgans & Wilcox Mfg. Company. (See Hampson, Donald A., assignor.)
Morison, Samuel B., Redlands, Calif. Fruit-picker. No. 1,336,648; Apr. 13; v. 273; p. 238.
Morley, Henry, New Westminster, British Columbia, Canada. Jar-lifter. No. 1,336,255; Apr. 6; v. 273; p. 104.
Morrin, William J., New Britain, Conn. Removable flooring for elevator-shafts. No. 1,335,849; Apr. 6; v. 273; p. 27
Morris, Harry J., Kansas City, Mo. Artificial limb. No. 1,338,243; Apr. 27; v. 273; p. 685.
Morris, Paul, Buffalo, N. Y. Machine for sawing, drilling, Grinding, &c. No. 1,337,147; Apr. 13; v. 273; p. 334.
Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Coil-box protector. No. 1,338,581; Apr. 27; v. 273; p. 748.
Morris, Theodore H., and F. T. Grubbe, Gary, Ind. Boudoir-chair. No. 1,338,582; Apr. 27; v. 273; p. 748.
Morris, William L., Chicago, Ill. Lubricant cleaning and replenishing system for automobiles. No. 1,337,408; Apr. 20; v. 273; p. 457.
Morrison, James D., Reinbeck, Iowa. Well-drilling device. No. 1,338,460; Apr. 27; v. 273; p. 726.
Morse, Clyde V., Galesburg, Ill. Oil-cooling system for explosive-engines. No. 1,336,368; Apr. 6; v. 273; p. 125.
Morse, Frank L., Ithaca, N. Y. Aeroplane control. No. 1,336,977; Apr. 13; v. 273; p. 301.
Morse, L., & Sons. (See White, Percy, assignor.)
Morse, Theodore F., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Cherry-pitter. No. 1,336,852; Apr. 13; v. 273; p. 278.
Morton, Dudley J., Wynnewood, Pa. Device for the prevention and treatment of deformed feet. No. 1,335,981; Apr. 6; v. 273; p. 53
Mosher, Lillian R. (See Rider, Edward A., assignor.)
Mossberg, Frank, Company. (See Tuttle, Walter L., assignor.)
Mossman, Benjamin, trustee. (See Starring, Alfred A., assignor.)
Motala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)
Motosacoche Societé Anonyme. (See Isliker, Albert, assignor.)
Mott, Otis W., Jackson, Mich., assignor to Perlman Rim Corporation, New York, N. Y. Demountable rim of the cross-cut type. No. 1,338,390; Apr. 27; v. 273; p. 713.
Mott, Samuel D., Passaic, N. J. Airman's life-preserver. No. 1,337,788; Apr. 20; v. 273; p. 530.
Mousa, Oscar E., Fairbury, Ill. Implement for pushing and pulling. No. 1,337,719; Apr. 20; v. 273; p. 517.
Moxon, George C., New York, N. Y. Paper-fastening clasp. No. 1,335,850; Apr. 6; v. 273; p. 27.
Moxon, George C., New York, N. Y. Envelop-clasp. No. 1,335,851; Apr. 6; v. 273; p. 27.
Mruk, Laudle J., Butte, Mont. Lubricator. No. 1,336,853; Apr. 13; v. 273; p. 278.
Muckenfuss, Charles, assignor of one-half to H. H. Metham, Cleveland, Ohio. Signal system. No. 1,337,021; Apr. 13; v. 273; p. 310.
Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Die. No. 1,335,907; Apr. 6; v. 273; p. 38.
Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Die. No. 1,335,908; Apr. 6; v. 273; p. 39.
Mueller, Frederick O. (See Thieme, O., and Mueller.)
Muench, Carl G., International Falls, Minn. Fiber plaster board and making same. No. 1,337,254; Apr. 20; v. 273; p. 428.
Muffly, Ross E., Canton, Ohio. Tire-chain. No. 1,336,369; Apr. 6; v. 273; p. 126.
Muhsgnug, Carl J. (See Fuligni, B., and Muhsgnug.)
Mulford, H. K., Company. (See Reichel, John, assignor.)
Mull, Benjamin H., Cleveland, Ohio. Airplane. No. 1,335,852; Apr. 6; v. 273; p. 27.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. No. 1,338,319; Apr. 27; v. 273; p. 700.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. No. 1,338,320; Apr. 27; v. 273; p. 700.
Muller, John O., West Hoboken, N. J. Fastening device. No. 1,336,752; Apr. 13; v. 273; p. 258.
Mulligan, Francis D., Belfast, Ireland. Non-porous cement. No. 1,338,033; Apr. 27; v. 273; p. 646.
Mulvihill, Edward R., *et al.* (See Caywood, James A., assignor.)
Mummelthey, Ferdinand, and C. H. Holmes, Coraopolis, Pa. Apparatus for making nuts. No. 1,338,244; Apr. 27; v. 273; p. 685.
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Thermo-insulation material and producing same. No. 1,335,909; Apr. 6; v. 273; p. 39.
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Reinforced fibrous board and producing same. No. 1,335,910; Apr. 6; v. 273; p. 39.
Munroe, Treadway B., Forest Glen, Md., assignor to B. G. Dahlberg, St. Paul, Minn. Fireproofing composition and making same. No. 1,338,322; Apr. 27; v. 273; p. 700.
Munster, Harry J., San Diego, Calif. Spark-plug. No. 1,336,914; Apr. 13; v. 273; p. 290.
Munt, Walter B., Philadelphia, Pa. Tie-presser. No. 1,338,189; Apr. 27; v. 273; p. 675.
Muntz, George M., and E. M. Roubieu, assignors to Tropenas Company, Brooklyn, N. Y. Utilizing steel scrap. No. 1,336,256; Apr. 6; v. 273; p. 104.
Murar, Michael S., and L. F. Hamrock, Youngstown, Ohio. Railway-joint. No. 1,336,915; Apr. 13; v. 273; p. 290.
Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,337,148; Apr. 13; v. 273; p. 334.
Murmann, Eugene O., Glendale, Calif. Can-opener. No. 1,338,643; Apr. 27; v. 273; p. 760.
Murphy, A. (See Okum, Morris B., assignor.)
Murphy, Edwin J., and L. W. Thompson, Schenectady, N. Y., assignors to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,942; Apr. 20; v. 273; p. 559.
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murray, Carl, Curtis, Nebr. Rural-mail-box installation. No. 1,337,089; Apr. 13; v. 273; p. 323.
Murray, Herbert, *et al.* (See Ash, Richard L., assignor.)
Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-control system. No. 1,337,255; Apr. 20; v. 273; p. 429.

Musgrave, Samuel H., Ocean Falls, British Columbia, Canada, Clod-crusher. No. 1,338,391; Apr. 27; v. 273; p. 713.
Musson, Edward T., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Wire wrapping and winding machine. No. 1,336,649; Apr. 13; v. 273; p. 238.
Muther, Lorenz F., Newton, Mass. Positioning device for eyelet and hook setting machines. No. 1,336,854; Apr. 13; v. 273; p. 278.
Muther, Lorenz F., Newton, Mass. Eyeleting-machine. No. 1,336,855; Apr. 13; v. 273; p. 278.
Muzzy, Ernest E., assignor of one-half to C. H. Ritterbush, Canton, Ohio. Lawn-mower. No. 1,336,257; Apr. 6; v. 273; p. 105.
Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,335,792; Apr. 6; v. 273; p. 17.
Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding device for vehicles and airplanes. No. 1,338,323; Apr. 27; v. 273; p. 700.
Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Tire-valve or the like. No. 1,338,245; Apr. 27; v. 273; p. 686.
Myers, Perry M., Lockeford, Calif. Combined differential and clutch transmission. No. 1,336,532; Apr. 13; v. 273; p. 216.
Mylins, Walter G. (See Bradshaw, W. M., and Mylins.)
Myrick, George H., Chicago, Ill. Dish-washing machine. No. 1,335,853; Apr. 6; v. 273; p. 28.
Nacey, James, Cleveland, Ohio. Sectional ship and joining the sections. No. 1,338,246; Apr. 27; v. 273; p. 686.
Nagel, Carl. (See Cranston, William C., assignor.)
Nalle, William C., *et al.* (See Simmons, James L., assignor.)
Nash, Alexander G., Kansas City, Mo. Ignition-detector and spark-intensifier. No. 1,338,521; Apr. 27; v. 273; p. 737.
National Carbon Company. (See Benner, R. C., and French, assignors.)
National Carbon Company. (See Gillingham, Charles A., assignor.)
National Carbon Company. (See Hazelett, Clarence W., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company, The. (See Lee, Charles L., assignor.)
National Cash Register Company, The. (See Martin, Haakon A., assignor.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Lock Washer Company, The. (See Hoyt, Daniel, assignor.)
National Machine Company. (See Weatherby, S. M., and Stach, assignors.)
National Motion Picture Camera Company, The. (See Leonard, John E., assignor.)
National Pneumatic Company. (See Meyers, George W., assignor.)
Navy Gear Manufacturing Corporation, The. (See Petrelli, Joseph V., assignor.)
Neal, Henry C., Philadelphia, Miss. Airplane. No. 1,338,247; Apr. 27; v. 273; p. 686.
Neft, Max, Seattle, Wash. Nut for guitars or the like. No. 1,338,583; Apr. 27; v. 273; p. 749.
Neikirk, John O., Lombard, Ill. Draft mechanism. No. 1,337,090; Apr. 13; v. 273; p. 323.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Overhead carrier. No. 1,336,370; Apr. 6; v. 273; p. 126.
Nelson, Andrew, and O. H. Hinnard, Chattanooga, Tenn. Non-skid wheel. No. 1,336,149; Apr. 6; v. 273; p. 84.
Nelson, Axel A., Washington, D. C. Cord-cutter. No. 1,338,248; Apr. 27; v. 273; p. 686.
Nelson, Carl A., Moline, Ill. Valve for air-brakes. No. 1,338,190; Apr. 27; v. 273; p. 675.
Nelson, Charles, and L. A. Coffeen, Denver, Colo. Beet-harvester. No. 1,336,313; Apr. 6; v. 273; p. 115.
Nelson, Clark C., Rocky Ford, Colo. Tobacco mixture. No. 1,338,089; Apr. 27; v. 273; p. 656.
Nelson, Erik W., New Rochelle, N. Y. Projector. No. 1,336,479; Apr. 13; v. 273; p. 206.
Nelson, Frederick, assignor of one-half to C. Esperson, Jamestown, N. Y. Leg extension. No. 1,336,480; Apr. 13; v. 273; p. 206.
Nelson, Nels S., and A. Boode, Lacombe, Alberta, Canada. Trap. No. 1,337,149; Apr. 13; v. 273; p. 334.
Nelson, Oscar T., Cleveland, assignor of fifty per cent. to C. A. Barnholth, Akron, Ohio. Internal-combustion engine. No. 1,336,371; Apr. 6; v. 273; p. 126.
Nelson, Oscar T., Cleveland, assignor of fifty per cent. to C. A. Barnholth, Akron, Ohio. Internal-combustion engine. No. 1,336,372; Apr. 6; v. 273; p. 126.
Nelson, Victor A. (See Hammontree, C. O., and Nelson.)
Neskl, Chester W., Chicago, Ill. Paper receptacle. No. 1,337,091; Apr. 13; v. 273; p. 324.
Nesmith, Ralph A., assignor of one-third to B. J. Bradner and one-third to A. B. Howard, Los Angeles, Calif. Lock. No. 1,338,150; Apr. 27; v. 273; p. 667.
Nettenstrom, David, Chicago, Ill. Auxiliary spring for motor-vehicles. No. 1,336,481; Apr. 13; v. 273; p. 206.
Neuland, Alfons H., San Francisco, Calif. Ignition and lighting device. No. 1,338,324; Apr. 27; v. 273; p. 701.
New Era Mfg. Company. (See Fanslow, Benjamin O., assignor.)
New Jersey Optical Co. (See Durgin, Edgar R., assignor.)
New York Belting & Packing Company. (See Somerville, Albert A., assignor.)
Newbigin, Henry T., Newcastle-upon-Tyne, England. Lubrication of journal-bearings. No. 1,336,373; Apr. 6; v. 273; p. 126.
Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Water-pump. No. 1,336,258; Apr. 6; v. 273; p. 105.
Newman, Otto E. (See Jackson, Oscar, assignor.)
Newsham, Roy V., Seattle, Wash. Self-oiling handle for dlestocks. No. 1,336,575; Apr. 13; v. 273; p. 224.
Niagara Smelting Corporation. (See Henderson, Clark T., assignor.)
Nicholas, Eldridge, Charlestown, R. I. Condiment-container. No. 1,337,789; Apr. 20; v. 273; p. 530.
Nicholas Power Company. (See Power, Nicholas, assignor.)
Nichols, Philip J. (See Clifford, R. W., and Nichols.)
Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Producing digging-teeth. No. 1,336,576; Apr. 13; v. 273; p. 224.
Nichols, William H., Pittsburgh, Pa. Chill-mold. No. 1,336,259; Apr. 6; v. 273; p. 105.
Nichols, William H., Pittsburgh, Pa. Chill-mold. No. 1,336,260; Apr. 6; v. 273; p. 105.
Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive-boiler. No. 1,337,720; Apr. 20; v. 273; p. 517.
Nicholson, John W., Pasadena, Calif., and C. Fowler, Tompkins Cove, N. Y.; said Fowler assignor to said Nicholson. Weed-destroyer and ground-sterilizer. No. 1,337,562; Apr. 20; v. 273; p. 486.
Nickels, Eckhart L., Rochester, Minn. Combined bathtub and dresser for babies. No. 1,338,034; Apr. 27; v. 273; p. 646.
Nickerson, Currie W., Los Angeles, Calif. Automobile-lock. No. 1,336,650; Apr. 13; v. 273; p. 238.
Nickol, Frederick C., and C. H. Knowles, assignors to City Machine and Tool Works, a copartnership consisting of F. C. Nickol and O. M. Poock, Dayton, Ohio. Machine for forming armature-coils. No. 1,337,463; Apr. 20; v. 273; p. 467.
Nicolaysen, Ragnvald M., Detroit, Mich. Machine for grinding cutters, reamers, and like tools. No. 1,336,533; Apr. 13; v. 273; p. 216.
Nicolle, John P., Montreal, Quebec, Canada. Cleat for barrels. No. 1,338,522; Apr. 27; v. 273; p. 738.
Niemczura, Aloysius, Amsterdam, N. Y. Calendar-clock. No. 1,336,150; Apr. 6; v. 273; p. 84.
Nilson, Sven, Waterbury, Conn. Rope-clamp. No. 1,336,482; Apr. 13; v. 273; p. 206.
Nixon, Jeddy D., assignor of one-half to H. F. Smith, Houston, Tex. Pipe-wrench. No. 1,338,461; Apr. 27; v. 273; p. 726.
Noir, Marin, North Fayette township, Allegheny county, Pa. Rail-joint mechanism. No. 1,336,483; Apr. 13; v. 273; p. 206.
Nolan, Francis A., St. Paul, Minn. Phonograph-stop. No. 1,335,911; Apr. 6; v. 273; p. 39.
Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,337,944; Apr. 20; v. 273; p. 560.
Nolan, James A., Bowerston, Ohio. Mine-car cager. No. 1,337,945; Apr. 20; v. 273; p. 560.
Nolan, James A., assignor to The Mining Safety Device Company, Bowerston, Ohio. Safety device for mines. No. 1,337,943; Apr. 20; v. 273; p. 559.
Nordiska Kullager Aktiebolaget. (See Welbull, Ernst H. W., assignor.)
Nordmark, Henry P., assignor to Fox Typewriter Co., Grand Rapids, Mich. Typewriting-machine. No. 1,337,563; Apr. 20; v. 273; p. 486.
Nordmark, Herman, San Pedro, Calif. Airship. No. 1,336,651; Apr. 13; v. 273; p. 238.
Norloff, Halfdan. (See Westberg, Elise, assignor.)
Norma Company of America, The. (See Bott, George R., assignor.)
Norma Company of America, The. (See Mueller, Frederick E., assignor.)
Norman, Frederick D., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism. No. 1,337,322; Apr. 20; v. 273; p. 441.
Norsk Alkali A/S. (See Riiber, Claus N., assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Bergve, E., and Jensen, assignors.)
North, James H., Blackwood, N. J. Tire-filler. No. 1,337,528; Apr. 20; v. 273; p. 480.
Northey, John P., *et al.* (See Weston, A. H., and Peters, assignors.)
Norton, Frank W., Minneapolis, Minn. Automobile-controlling device. No. 1,336,856; Apr. 13; v. 273; p. 279.
Nu Automatic Button Attaching Machine Company. (See Bamner, Pins, assignor.)
Nu Automatic Button Attaching Machine Company. (See Gensmer, T., and Lieberman, assignors.)
Nu Automatic Button Attaching Machine Company. (See Matter, A. J., and Conley, assignors.)
Nu Automatic Button Attaching Machine Company. (See Matter, Albert J., assignor.)

Nu-Fire Appliance Company. (See Bargar, Frederick C., assignor.)
Nyholm, Peter, Edgewood, Wash. Extension-table. No. 1,337,092; Apr. 13; v. 273; p. 324.
Nyquist, Gust R., Fresno, Calif. Spring. No. 1,336,314; Apr. 6; v. 273; p. 115.
Nysewander, David J., Toledo, Ohio. Heater. No. 1,336,753; Apr. 13; v. 273; p. 258.
Oathout, Charles E., assignor to The Kaynee Company, Cleveland, Ohio. Buttonhole-tape. No. 1,336,577; Apr. 13; v. 273; p. 224.
Oberreich, Charles W., Bucyrus, Ohio. Toy. No. 1,336,374; Apr. 6; v. 273; p. 127.
O'Brien, Henry G. (See Whithers, J., and O'Brien.)
O'Brien, Henry G., Warren, Ohio. Rolling-mill shearing and piling apparatus. No. 1,337,464; Apr. 20; v. 273; p. 468.
O'Brien, Willis H., and D. Siakel, Chicago, Ill.; said O'Brien assignor to said Siakel. Film-holder. No. 1,337,614; Apr. 20; v. 273; p. 496.
O'Callahan, John, Chicago, Ill. Curtain-frame. No. 1,335,854; Apr. 6; v. 273; p. 28.
Ocean Leather Co., The. (See Rogers, Allen, assignor.)
Ochs, George F., Newark, N. J. Airship. No. 1,337,409; Apr. 20; v. 273; p. 458.
O'Connell, Thomas J., Flint, Mich. Device for pouring joints. No. 1,337,256; Apr. 20; v. 273; p. 429.
O'Connor, John E., San Francisco, Calif. Typewriting-machine. No. 1,336,151; Apr. 6; v. 273; p. 85.
Oden, Clyde. (See Eklundh, J. G. G., Oden, and Schmitt.)
Oglesby, Richard A., assignor to Quick Action Ignition Company, South Bend, Ind. Detachable magneto-armature head and core. No. 1,338,151; Apr. 27; v. 273; p. 668.
Ohio Brass Company, The. (See Bovard, William P., assignor.)
Ohio Brass Company, The. (See Brown, J. R., and Bolus, assignors.)
Ohio Brass Company, The. (See Brown, John R., assignor.)
Ohio Brass Company, The. (See Hunzicker, Walter W., assignor.)
Ohio Brass Company, The. (See Mead, George A., assignor.)
Ohio Brass Company, The. (See Starkey, William C., assignor.)
Ohlson, Olof, West Newton, Mass. Device for forming filaments. No. 1,337,258; Apr. 20; v. 273; p. 429.
Ohnell, Ernst J. (See Olhovsky, Vladimir, assignor.)
Ojczyk, Walter, Cleveland, Ohio. Shade and curtain fixture. No. 1,337,615; Apr. 20; v. 273; p. 496.
Okun, Morris B., assignor to A. Murphy, Chicago, Ill. Bed-post-fastener. No. 1,337,150; Apr. 13; v. 273; p. 334.
Old Dominion Specialty Company, The. (See Sanford, Crocker H., assignor.)
O'Leary, Daniel. (See Woods, Joseph M., assignor.)
Olhovsky, Vladimir, assignor to E. J. Ohnell, New York, N. Y. Tool for bending wire. No. 1,337,616; Apr. 20; v. 273; p. 497.
Olmsted, R. M. (See Johnson, Gustaf A., assignor.)
Olsen, Johan A., Copenhagen, Denmark. Method of and machine for preparing leguminous fruits and the like without stripping off the strings. No. 1,338,035; Apr. 27; v. 273; p. 646.
Olson, Anders, and S. Hanson, Galesburg, Ill. Corn-harvesting machine. No. 1,336,578; Apr. 13; v. 273; p. 225.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hardening-machine. No. 1,335,912; Apr. 6; v. 273; p. 39.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Machine for hardening plates. No. 1,337,465; Apr. 20; v. 273; p. 468.
Olson, Jorgen, Cashton, Wis. Double-seaming stake. No. 1,337,466; Apr. 20; v. 273; p. 468.
Olson, William O., assignor to The Marmon Chicago Company, Chicago, Ill. Spark-plug. No. 1,335,793; Apr. 6; v. 273; p. 17.
O'Neil, Dan, J. A. Holmquist, and J. W. Free, Woodlawn, assignors to Jones and Laughlin Steel Company, Pittsburgh, Pa. Machinery for removing superfluous spelter from galvanized articles. No. 1,338,152; Apr. 20; v. 273; p. 668.
O'Neill, Paul J., Detroit, Mich. Motorcycle. No. 1,337,946; Apr. 20; v. 273; p. 560.
Oppenheimer, Solomon, Washington, D. C. Antiskidding device. No. 1,338,036; Apr. 27; v. 273; p. 646.
O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,337,257; Apr. 20; v. 273; p. 429.
Orbom, Erick G., Williston, N. D. Universal joint. No. 1,335,913; Apr. 6; v. 273; p. 40.
Orcutt Automatic Train Control Company. (See La Count, Eldridge I., assignor.)
Orcutt Automatic Train Control Company. (See Prince, B. A., and La Count, assignors.)
Orem, Frederick S., Baltimore, Md. Air-strainer. No. 1,337,564; Apr. 20; v. 273; p. 487.
Osborn, Henry C. (See Parkes, Walter, assignor.)
Osborne, Jacob R., Clinton, Mo. Advertising apparatus. No. 1,338,523; Apr. 27; v. 273; p. 738.
Osgood Bradley Car Company. (See Turner, Charles H., assignor.)
O'Shaughnessy, Patrick F., Brooklyn, N. Y. Vise attachment. No. 1,336,087; Apr. 6; v. 273; p. 72.
O'Shaughnessy, Patrick F., Brooklyn, N. Y. Fuel-heater for internal-combustion engines. No. 1,336,152; Apr. 6; v. 273; p. 85.
Osol, Fritz E. (See Barron, W. L., and Osol.)
Ostenberg, Pontus, Los Gatos, Calif. Generating power by internal combustion. No. 1,337,323; Apr. 20; v. 273; p. 442.
Osterhage, Louis H., Vincennes, Ind. Automobile-tire tool. No. 1,336,916; Apr. 13; v. 273; p. 290.
Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car. No. 1,336,439; Apr. 13; v. 273; p. 198.
O'Toole, Edward, Gary, W. Va. Slabbing and loading machine. No. 1,336,440; Apr. 13; v. 273; p. 198.
O'Toole, William, Lorain, Ohio. Signal-post. No. 1,337,947; Apr. 20; v. 273; p. 560.
Otto, Arthur J., Milwaukee, Wis. Thermostat. No. 1,337,529; Apr. 20; v. 273; p. 480.
Otto, Arthur J., assignor to Johnson Service Company, Milwaukee, Wis. High-temperature thermostat. No. 1,337,367; Apr. 20; v. 273; p. 450.
Otto, Frank J., Detroit, Mich. Electric mail-indicator. No. 1,336,652; Apr. 13; v. 273; p. 239.
Oubridge, William A., Coventry, England. Piston-ring-hammering machine. No. 1,336,153; Apr. 6; v. 273; p. 85.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Water-mixer. No. 1,336,917; Apr. 13; v. 273; p. 290.
Overmyer, Charles G., assignor of one-half to S. J. Farrell, Hartford City, Ind. Caster. No. 1,338,249; Apr. 27; v. 273; p. 686.
Oversmith, Clarence D., Lima, Ohio. Controlling mechanism for electric switches. No. 1,337,022; Apr. 13; v. 273; p. 310.
Owen, Frederick L., Boston, Mass. Garment-hanger. No. 1,336,375; Apr. 6; v. 273; p. 127.
Oxley, Herbert D., Chicago, Ill. Press for salt blocks and the like. No. 1,336,579; Apr. 13; v. 273; p. 225.
Oxweld Acetylene Company. (See Braden, R. D., and Grant, assignors.)
Paar, Henry, Canton, assignor of one-third to C. McGranahan, Youngstown, Ohio. Cushion-horseshoe. No. 1,338,584; Apr. 27; v. 273; p. 749.
Pachali, Theodor, Sr., Reading, Pa. Rupture-pad. No. 1,337,790; Apr. 20; v. 273; p. 530.
Pacific Car & Foundry Co. (See Jarvis, Herbert C., assignor.)
Pacific R & H Chemical Corporation, The. (See Cuyler, E. H., and Patterson, assignors.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Introducing materials into molten metal. No. 1,337,093; Apr. 13; v. 273; p. 324.
Page, Arthur A., New York, N. Y. Tracking device. No. 1,337,530; Apr. 20; v. 273; p. 481.
Pain, William, Little Rock, assignor of one-third to D. Roppo, Seattle, and one-third to J. E. Waldrip, Olympia, Wash. Ribbon-inking attachment for typewriters. No. 1,337,980; Apr. 20; v. 273; p. 567.
Paper Products Machine Company. (See Howard, Charles H., assignor.)
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Rheostat. No. 1,336,918; Apr. 13; v. 273; p. 290.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,336,919; Apr. 13; v. 273; p. 291.
Pardee, Charles, Augusta, Me. Shock-absorber. No. 1,336,534; Apr. 13; v. 273; p. 216.
Park Manufacturing Company, The. (See Stubbs, Robert L., assignor.)
Parker, Harry J., assignor to S. Williams, San Francisco, Calif. Aeroplane. No. 1,337,151; Apr. 13; v. 273; p. 334.
Parker, Henry R., Norristown, Pa. Needle-loom. No. 1,337,259; Apr. 20; v. 273; p. 429.
Parkes, Samuel R., Willenhall, England. Window-sash fastener. No. 1,338,250; Apr. 27; v. 273; p. 687.
Parkes, Walter, assignor, by mesne assignments, to H. C. Osborn, Cleveland, Ohio. Framing device for motion-picture machines. No. 1,335,749; Apr. 6; v. 273; p. 9.
Parkes, Walter, assignor to A. L. Garford, Elyria, Ohio. Camera. No. 1,336,441; Apr. 13; v. 273; p. 199.
Parkins, John G., Rorer, W. Va. Pane-fastener. No. 1,337,565; Apr. 20; v. 273; p. 487.
Parks, Ostrander J., River Forest, assignor to General American Tank Car Corporation, Chicago, Ill. Tank-car. No. 1,338,392; Apr. 27; v. 273; p. 713.
Parmelee, Roy, Chicago, Ill. Vise. No. 1,336,754; Apr. 13; v. 273; p. 259.
Parmelee, Roy, Chicago, Ill. Vise. No. 1,336,755; Apr. 13; v. 273; p. 259.
Parr, Frank L., Huntington, W. Va. Automatic checking and stopping apparatus for cars. No. 1,337,948; Apr. 20; v. 273; p. 561.
Parr, George T., St. Paul, Minn. Trellis. No. 1,336,580; Apr. 13; v. 273; p. 225.
Parr, Samuel W. (See Broderson, H. J., and Parr.)

Parrott, Reginald J. (See Roe, A. V., and Parrott.)
Parsons Marine Steam Turbine Company, The. (See Black, David C., assignor.)
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Lid-supporting device. No. 1,337,791; Apr. 20; v. 273; p. 530.
Partenheimer, Cyrus A. (See Johnston, G. S., Ihrcke, and Partenheimer.)
Parvin, Elsie R., Cynwyd, Pa. Ear-bandage for infants. No. 1,338,090; Apr. 27; v. 273; p. 656.
Pate, Robert L., Springfield, Mo. Device for controlling the temperature of automobile-radiators. No. 1,338,585; Apr. 27; v. 273; p. 749.
Paterson, John, Jr., Edinburg, N. D. Eraser-cleaner. No. 1,338,586; Apr. 27; v. 273; p. 749.
Paterson, May H. (See Paterson, William and M. H.)
Paterson, William and M. H., Oakland, Calif. Motor-truck tractor. No. 1,336,653; Apr. 13; v. 273; p. 239.
Patterson, Lewis P., Kansas City, Kans. Welded joint and welding. No. 1,337,023; Apr. 13; v. 273; p. 310.
Patterson, Mark B. (See Cuyler, E. H., and Patterson.)
Patterson, William J., trustee. (See McComb, William M., assignor.)
Patton, Charles J., Keystone, S. D. Manufacture of mica and mica slate. No. 1,338,393; Apr. 27; v. 273; p. 713.
Patton, Luther, West Blocton, Ala. Insect-catcher. No. 1,338,587; Apr. 27; v. 273; p. 749.
Pauk, Henry E., St. Louis, Mo. Fabric-measuring machine. No. 1,337,260; Apr. 20; v. 273; p. 429.
Paulson, Walter H. (See Lathrop, H. D., and Paulson.)
Paulus, Fred and O., Harvard, Nebr. Door stop and lock. No. 1,336,535; Apr. 13; v. 273; p. 216.
Paulus, Oscar. (See Paulus, Fred and O.)
Pautzke, William F., Lawrence, Kans. Mechanical toy. No. 1,336,756; Apr. 13; v. 273; p. 259.
Payson, Edward, Traverse City, Mich. Double-wheel antifriction caster. No. 1,338,325; Apr. 27; v. 273; p. 701.
Pearson, Bigalo M., Greenville, Miss. Car-door lock and release. No. 1,337,261; Apr. 20; v. 273; p. 429.
Pearson, Carl F., assignor to Chicago Machine & Motor Co., Chicago, Ill. Bearing for loose pulleys. No. 1,338,091; Apr. 27; v. 273; p. 657.
Pearson, Fred N., Chicago, Ill. Controlling mechanism for doors and the like. No. 1,335,750; Apr. 6; v. 273; p. 9.
Pearson, John W., Chicago, Ill. Commutator. No. 1,338,092; Apr. 27; v. 273; p. 657.
Pearson, John W., Chicago, Ill. Armature. No. 1,338,093; Apr. 27; v. 273; p. 657.
Pearsons, George T., New York, N. Y. Syringe. No. 1,337,467; Apr. 20; v. 273; p. 468.
Peas, Walter J., Meadville, assignor to Blystone Manufacturing Company, Cambridge Springs, Pa. Mixer. No. 1,337,468; Apr. 20; v. 273; p. 469.
Peatman, Ralph A., Mound City, Kans. Pump attachment for automobiles. No. 1,336,920; Apr. 13; v. 273; p. 291.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sedimentation apparatus. No. 1,337,094; Apr. 13; v. 273; p. 324.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sedimentation apparatus. No. 1,337,095; Apr. 13; v. 273; p. 324.
Peck, Frederick G., Bradford, Pa. Wave or tide motor. No. 1,338,326; Apr. 27; v. 273; p. 701.
Pedler, William J., *et al.* (See Atkins, Walter, assignor.)
Pendziwiater, Wawrzyniec, Philadelphia, Pa. Direction-indicator for dirigible vehicles. No. 1,337,848; Apr. 20; v. 273; p. 541.
Penn Seaboard Steel Corporation. (See Briner, Frank, assignor.)
Pennewill, James W., Silver City, N. Mex. Keyboard-cleaner. No. 1,336,044; Apr. 6; v. 273; p. 64.
Pennsylvania Lawn Mower Works. (See Braun, William P. M., assignor.)
Pentecost, Arthur, New York, N. Y., and W. W. Fisher, Fortyfort, Pa., assignors to Wales Adding Machine Company, Wilkes-Barre, Pa. Paper-carriage. No. 1,335,794; Apr. 6; v. 273; p. 17.
Pequegnat, Frank A., and C. C. Knoll, Riverside, Calif. Speed-controller. No. 1,338,191; Apr. 27; v. 273; p. 675.
Perene, H. B. (See Watkins, William F., assignor.)
Perez, Frank M., Brooklyn, assignor, by mesne assignments, to D. Brody, New York, N. Y. Display box or carton. No. 1,338,394; Apr. 27; v. 273; p. 714.
Perkins, Harry J., Grand Rapids, Mich. Grinding-machine. No. 1,337,617; Apr. 20; v. 273; p. 497.
Perlman Rim Corporation. (See Mott, Otis W., assignor.)
Perrin, Solon L., *et al.* (See Gothner, John, assignor.)
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company, Making construction material. No. 1,338,037; Apr. 27; v. 273; p. 647.
Peters, Andrew, Oakland, Calif. Dough cutting and molding machine. No. 1,337,152; Apr. 13; v. 273; p. 334.
Peters, Edward A., and J. T. Welhoefer, assignors to Drew Carrier Company, Waterloo, Wis. Hopper. No. 1,337,262; Apr. 20; v. 273; p. 430.
Peters Machine and Manufacturing Company. (See Thiemer, William H., assignor.)
Peters, Robert H. (See Western, A. H., and Peters.)
Peterson, Alex S., Bayonne, N. J. Window-rattling stop. No. 1,336,045; Apr. 6; v. 273; p. 65.
Peterson, Charlie, Crystal Falls, Mich. Runner attachment for automobiles. No. 1,337,153; Apr. 13; v. 273; p. 335.
Peterson, Hall J., Isanti, Minn. Latch. No. 1,338,153; Apr. 27; v. 273; p. 668.
Peterson, Peter R., Salt Lake City, Utah. Rim-tool. No. 1,335,795; Apr. 6; v. 273; p. 17.
Petey, Louis F., Rhinelander, Wis. Tire-protector. No. 1,337,950; Apr. 20; v. 273; p. 561.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing an alloy of zirconium and lead. No. 1,335,982; Apr. 6; v. 273; p. 53.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing alloys containing zirconium carbid. No. 1,335,983; Apr. 6; v. 273; p. 53.
Petrelli, Joseph V., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn. Reversing mechanism. No. 1,337,531; Apr. 20; v. 273; p. 481.
Petrovics, Fred J., Chicago, Ill. Electric fuse. No. 1,337,949; Apr. 20; v. 273; p. 561.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-beam fulcrum. No. 1,335,914; Apr. 6; v. 273; p. 40.
Pfanstiehl, Carl, Highland Park, Ill., assignor to Special Chemicals Company. Metamorphous sal ammoniac, (ammonium chlorid.) No. 1,337,665; Apr. 20; v. 273; p. 506.
Pfeifer, Adolph, Chicago, Ill. Hair-cutter. No. 1,337,263; Apr. 20; v. 273; p. 430.
Pfund, Lewis J. (See Foerster, T. J., and Pfund.)
Philadelphia Metal Drying Form Company. (See Messinger, William, assignor.)
Philips-Brinton Company. (See Brinton, William C., Jr., assignor.)
Philips, Herman B., New York, N. Y. Surgeon's plaster-knife. No. 1,336,376; Apr. 6; v. 273; p. 127.
Phillips & Clark Stove Co. (See Beers, Edward C., assignor.)
Phillips, George W., Sawyer, Kans. Sharpener. No. 1,337,154; Apr. 13; v. 273; p. 335.
Phillips & Slack, Inc. (See Chase, Elroy A., assignor.)
Picard, Stanislas S., Providence, R. I. Carrier for braiding-machines. No. 1,337,155; Apr. 13; v. 273; p. 335.
Pickens, Julius A., Easley, S. C. Electric furnace. No. 1,337,156; Apr. 13; v. 273; p. 335.
Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Vibrator. No. 1,336,921; Apr. 13; v. 273; p. 291.
Pierce, Henry H., Cambridge, Mass. Film-holder. No. 1,336,377; Apr. 6; v. 273; p. 127.
Pierce, Raymond C., Hornell, N. Y. Flash-gun. No. 1,337,566; Apr. 20; v. 273; p. 487.
Pille, George J. (See Kirchner, Arthur W., assignor.)
Pine Tree Milking Machine Company. (See Babson, Henry B., assignor.)
Pine, Wilber J., Oshkosh, Wis. Wire fabric. No. 1,336,154; Apr. 6; v. 273; p. 85.
Pinger, George C., New York, N. Y., assignor of one-half to Republic Iron and Steel Company. Apparatus for electroplating. No. 1,336,052; Apr. 6; v. 273; p. 66.
Pinkerton, Edward E., assignor of one-half to C. H. Hudson, Chicago, Ill. Folding box. No. 1,337,368; Apr. 20; v. 273; p. 450.
Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Plaster-block machine. No. 1,337,618; Apr. 20; v. 273; p. 497.
Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Powder-handling machine. No. 1,337,619; Apr. 20; v. 273; p. 497.
Pipenhagen, Charles A., Chicago, Ill. Radiator-shutter. No. 1,336,978; Apr. 13; v. 273; p. 302.
Piper, Alonzo E., White City, Fla. Weeding-machine. No. 1,337,721; Apr. 20; v. 273; p. 517.
Piper, Clarence W., assignor to A. C. Wilcken, St. Paul, Minn. Bed-spring fabric. No. 1,335,984; Apr. 6; v. 273; p. 53.
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pipkin, Frank R., Greenfield, Ark. Railway-spike. No. 1,338,154; Apr. 27; v. 273; p. 668.
Pitkin, George P., Bergenfield, N. J. Luminous thermometer. No. 1,338,524; Apr. 27; v. 273; p. 738.
Pitner Gas Appliance Company. (See Pitner, Marion W., assignor.)
Pitner, Marion W., assignor to Pitner Gas Appliance Company, Chicago, Ill. Process and apparatus for burning gas for heating purposes. No. 1,338,327; Apr. 27; v. 273; p. 701.
Pitts, George B., trustee. (See Richardson, Charles F., assignor.)
Pittsburgh Filter Manufacturing Company. (See Humphreys, Charles A., assignor.)
Pittsburgh Gage & Supply Company. (See Freed, George F., assignor.)
Pittsburgh Garbage Incineration Co. (See Roberts, Albert J., assignor.)
Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,337,469; Apr. 20; v. 273; p. 469.
Platt, Henry. (See Platt, John, W., and H.)
Platt, John, Harrow, England, and W. and H. Platt, Roubaix, France. Drum or cylinder of carding-engines and the like. No. 1,337,470; Apr. 20; v. 273; p. 469.

Platt, William. (See Platt, John, W., and H.)
Plemmons, Earl, Ashburn, Ga. Air-motor. No. 1,336,315; Apr. 6; v. 273; p. 115.
Plettner, Otto L., and W. H. Lowe, assignors to The Continental Tractor Company, Continental, Ohio. Tractor. No. 1,336,581; Apr. 13; v. 273; p. 225.
Plughoff, Albert D., *et al.* (See Atkins, Walter, assignor.)
Plummer, Arthur B., Chicago, Ill. Orthopedic pad. No. 1,336,979; Apr. 13; v. 273; p. 302.
Plym, Francis J., assignor to Kawneer Manufacturing Company, Niles, Mich. Aeroplane-wing construction. No. 1,337,951; Apr. 20; v. 273; p. 561.
Podszus, Emil, Treptow, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making solid bodies from nitrids. No. 1,337,264; Apr. 20; v. 273; p. 430.
Poehland, Bernhard, Woodhaven, N. Y. Fastener for tailpieces of musical instruments. No. 1,337,793; Apr. 20; v. 273; p. 530.
Pointon, John E., Peterborough, England. Bread-making machinery. No. 1,335,915; Apr. 6; v. 273; p. 40.
Polaski, Henry P., assignor to The Four-Drive Tractor Company, Inc., Big Rapids, Mich. Tractor driving-gearing. No. 1,337,369; Apr. 20; v. 273; p. 450.
Polcho, Frank, Melvin, Mich. Pneumatic paint-brush. No. 1,336,316; Apr. 6; v. 273; p. 115.
Pelhemus, Louis E., Miami, Ariz. Carbid-lamp burner. No. 1,338,038; Apr. 27; v. 273; p. 647.
Poole, Arthur F., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Clock system. No. 1,338,328; Apr. 27; v. 273; p. 701.
Pooler, Earl. (See Law, H. E., and Pooler.)
Pope, Charles E., Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Paper-making. No. 1,338,094; Apr. 27; v. 273; p. 657.
Popkess, Michael A., Kansas City, Mo., assignor to Bituminized Road Company. Machine for treating earthy material. No. 1,337,953; Apr. 20; v. 273; p. 561.
Popp, Jonas L. T., Niagara Falls, N. Y. Mixing valve or faucet. No. 1,337,952; Apr. 20; v. 273; p. 561.
Poremba, Thomas, Rome, N. Y. Combined cane and fish-rod. No. 1,336,088; Apr. 6; v. 273; p. 72.
Porri, Antoine, Bone, Algeria. Mold for manufacture of concrete pipes. No. 1,336,857; Apr. 13; v. 273; p. 279.
Port, Charles A., Windsor, Mo. Needle. No. 1,338,525; Apr. 27; v. 273; p. 738.
Porter, Lewis W., near New Carlisle, Ohio. Gas-engine. No. 1,338,039; Apr. 27; v. 273; p. 647.
Porter, Robert L., Chicago, Ill. Baggage-check. No. 1,337,722; Apr. 20; v. 273; p. 517.
Poser, Max., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic-test-lens frame. No. 1,337,265; Apr. 20; v. 273; p. 430.
Post, Claude L., Chicago, Ill. Envelop feeding and handling device. No. 1,337,266; Apr. 20; v. 273; p. 431.
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne) Billancourt, Seine, France. Shock-absorber for airplane-radiators. No. 1,337,157; Apr. 13; v. 273; p. 335.
Postum Cereal Company. (See Lippen, Jonathan K., assignor.)
Potter, Thomas R. F., assignor to Lock Stub Check Company, Brooklyn, N. Y. Sales-check holder. No. 1,336,922; Apr. 13; v. 273; p. 291.
Pottorff, Russell B., Waynesboro, Pa. Transfer device for fruit-jar machines. No. 1,336,317; Apr. 6; v. 273; p. 115.
Potts, Charles W., Kellerton, Iowa. Door-controlling device. No. 1,337,954; Apr. 20; v. 273; p. 562.
Powell, Winfred T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,337,324; Apr. 20; v. 273; p. 442.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Stand for moving-picture machines. No. 1,337,267; Apr. 20; v. 273; p. 431.
Power, Patrick M. (See Edman, John, assignor.)
Poynter, Ambrose M., London, England. Tire. No. 1,335,916; Apr. 6; v. 273; p. 40.
Pozzo, Alberto, and G. Colonnetti, Turin, Italy. Apparatus for testing irons. No. 1,335,985; Apr. 6; v. 273; p. 53.
Prangnell, Norman W. (See Ewart, Samuel and J. W., and Prangnell.)
Pratt & Whitney Company. (See Müller, Friederich, assignor.)
Prendergast, Harold Y., New York, N. Y. Sound-box. No. 1,338,395; Apr. 27; v. 273; p. 714.
Prendergast, Harold Y., New York, N. Y. Sound-box. No. 1,338,396; Apr. 27; v. 273; p. 714.
Presby, Leroy Q., Melrose, assignor to C. S. Luitwieler, Newton, and F. W. Merrick, Boston, Mass. Tool-holder. No. 1,336,155; Apr. 6; v. 273; p. 85.
Prescott, Ford L., Elmira, N. Y. Calculating device. No. 1,338,588; Apr. 27; v. 273; p. 749.
Press, Plimpton. (See Scriven, Bernard E., assignor.)
Presteel Mfg. Company. (See Carlson, Andrew H., assignor.)
Preston, Grace D., Spartanburg, S. C., assignor of two-fifths to A. G. Smith, Elyria, Ohio. Fastening device. No. 1,336,156; Apr. 6; v. 273; p. 85.
Prey, Herman C., Watertown, S. D. Electric clock and signal system. No. 1,336,318; Apr. 6; v. 273; p. 116.
Prigan, Gustave H., Burns, Mont. Harvester-reel arm. No. 1,336,536; Apr. 13; v. 273; p. 217.
Prince, Benjamin A., and E. I. La Count, assignors to Orcutt Automatic Train Control Company, Worcester, Mass. Train-controlling system. No. 1,336,484; Apr. 13; v. 273; p. 207.
Prince, Clarence K., Westfield, Mass. Mold-handling machine. No. 1,337,268; Apr. 20; v. 273; p. 431.
Prince, John D., Boston, Mass. Leather substitute. No. 1,336,858; Apr. 13; v. 273; p. 279.
Pringle, Alexander, and T. S. Kirk, Belfast, Ireland. Operating mechanism for artificial hands. No. 1,338,155; Apr. 27; v. 273; p. 668.
Pringle, R. E. T., Limited. (See Buskard, Samuel G., assignor.)
Printing Trades Manufacturing Company. (See Holmes, Edgar L., assignor.)
Prizma, Incorporated. (See Kelley, William V. D., assignor.)
Probst, George W., assignor of one-third to R. S. Probst and one-third to V. Probst, Lock Haven, Pa. Rail-joint. No. 1,335,751; Apr. 6; v. 273; p. 9.
Probst, Ray S., *et al.* (See Probst, George W., assignor.)
Probst, Verne, *et al.* (See Probst, George W., assignor.)
Pryor, Clarence E. (See Todenwarth, Walter W., assignor.)
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,336,582; Apr. 13; v. 273; p. 225.
Pukt, Albert J., Boston, Mass. Curtain and shade frame. No. 1,337,370; Apr. 20; v. 273; p. 450.
Punzelt, Edward E., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Food-cutter. No. 1,337,955; Apr. 20; v. 273; p. 562.
Pupin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Antenna with distributed positive resistance. No. 1,336,378; Apr. 6; v. 273; p. 127.
Purple, Harry J., Newton, assignor to United Drug Company, Boston, Mass. Shaving-stick holder. No. 1,338,156; Apr. 27; v. 273; p. 669.
Q. R. S. Music Company, The. (See Clark, E. G., assignor.)
Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
Quijano, Ramon, San Antonio, Tex. Fiber-cleaning device. No. 1,336,046; Apr. 6; v. 273; p. 65.
Racine Tool & Machine Co. (See Reinhardt, W. C., and Banker, assignors.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Raffel, Ferdinand A., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Hydrocarbon-lamp. No. 1,337,620; Apr. 20; v. 273; p. 497.
Raffelson, Isaac, New York, N. Y. Tire-protector. No. 1,336,757; Apr. 13; v. 273; p. 259.
Rahn, Robert C., Wyomissing, Pa. Braiding-machine. No. 1,337,269; Apr. 20; v. 273; p. 431.
Rahn, Robert C., Wyomissing, Pa. Drive and stop mechanism for braiding-machines. No. 1,337,270; Apr. 20; v. 273; p. 431.
Rahr, Chester E. (See Heppes, O. A., and Rahr.)
Rains, Johnny, Boas, Ala. Saw cleaning and oiling device. No. 1,338,157; Apr. 27; v. 273; p. 669.
Rakowski, Wladislaus, South Bethlehem, Pa. Curtain and portière hanger. No. 1,336,047; Apr. 6; v. 273; p. 65.
Ralko Products Company, The. (See Kopf, Melrose G., assignor.)
Ralls, George E. D., Birmingham, England. Clutch and transmission mechanism for motor road and other vehicles. No. 1,338,252; Apr. 27; v. 273; p. 687.
Ramsey, Joseph H., Albany, N. Y. Film-spool for photographic cameras. No. 1,335,917; Apr. 6; v. 273; p. 40.
Randall, Herman P. (See Shannon, S. Q., and Randall.)
Randall, James W. H., Western Port, Md., assignor to Industrial Chemical Company, New York, N. Y. Production of acetates, &c. No. 1,338,040; Apr. 27; v. 273; p. 647.
Randall, Victor E., assignor of one-half to B. Gwatkin, Battle Creek, Mich. Rail-seat holder. No. 1,337,621; Apr. 20; v. 273; p. 498.
Raphael, Joseph H., and H. H. Scott, London, England. Spectacles or goggles. No. 1,338,526; Apr. 27; v. 273; p. 738.
Rapson, Fred L., Liverpool, England. Lifting-jack. No. 1,338,589; Apr. 27; v. 273; p. 749.
Rasbell, Edward A., assignor of one-half to W. L. Smart, Lamasco, Tex. Mail-transferring apparatus. No. 1,337,956; Apr. 20; v. 273; p. 562.
Rasmussen, William R., Los Angeles, Calif. Finger-guard. No. 1,337,957; Apr. 20; v. 273; p. 562.
Rathford, Nicholas, Saratoga, Ind. Resilient wheel. No. 1,335,752; Apr. 6; v. 273; p. 9.
Rauh, Milton. (See Aylor, W. E., and Rauh.)
Ray, Albert D., Cleveland, Ohio. Oil-bolt. No. 1,336,654; Apr. 13; v. 273; p. 239.
Ray, George W., and W. V. Harrington, Minneapolis, Minn.; said Ray assignor to said Harrington. Lamp-dimmer. No. 1,335,918; Apr. 6; v. 273; p. 40.
Rayne, Aloysius W., Fulton, Mo. Railway construction. No. 1,338,590; Apr. 27; v. 273; p. 750.
Reach, William F., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Golf-club. No. 1,337,958; Apr. 20; v. 273; p. 562.

Read, Charles G., Buffalo, N. Y. Locking device for automobiles. No. 1,336,379; Apr. 6; v. 273; p. 127.
Read, Collins P., Newark, N. J. Safety-chock. No. 1,336,442; Apr. 13; v. 273; p. 199.
Read, Judson W., Denver, Colo. Butt-gage. No. 1,336,157; Apr. 6; v. 273; p. 86.
Realty Trust Company, The, *et al.*, trustees. (See Warren, William H., assignor.)
Ream, Gordon A., Detroit, Mich. Automatic circuit-opening switch for ignition systems. No. 1,336,158; Apr. 6; v. 273; p. 86.
Reber, Emil, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Disazodystuffs able to be chromated. No. 1,338,397; Apr. 27; v. 273; p. 714.
Reckers, William A., *et al.* (See Word, John B., assignor.)
Reece Button Hole Machine Company. (See Klewicz, John, assignor.)
Reece Button Hole Machine Company, The. (See Zaleski, Frank, assignor.)
Reed, Fred L., Syracuse, N. Y. Jar-cover remover. No. 1,337,158; Apr. 13; v. 273; p. 335.
Reedy, Maurice W., assignor of one-half to F. B. Shearer, Aurora, Ill. Railway signal system. No. 1,335,919; Apr. 6; v. 273; p. 41.
Reese, Charles N., Wilmette, Ill. Vacuum suction-plate. No. 1,337,622; Apr. 20; v. 273; p. 498.
Reese, Louis C., Saginaw, Mich. Apparatus for determining the specific gravity of doughs, pastes, and the like. No. 1,337,410; Apr. 20; v. 273; p. 458.
Reeves, Clifton, Trenton, N. J. Steam-engine construction. No. 1,337,024; Apr. 13; v. 273; p. 310.
Reeves, Frank N., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric signaling system. No. 1,337,482; Apr. 20; v. 273; p. 471.
Reflecto-Metal Company, The. (See Hancock, Thomas, assignor.)
Regnier, Wilfred L., Dayton, Ohio. Detachable wheel. No. 1,337,271; Apr. 20; v. 273; p. 432.
Reich, Ernest, assignor to Hill Pump Valve Company, Chicago, Ill. Seal. No. 1,337,985; Apr. 20; v. 273; p. 568.
Reichel, John, assignor to H. K. Mulford Company, Philadelphia, Pa. Producing refined hog-cholera serum. No. 1,335,986; Apr. 6; v. 273; p. 53.
Reichel, Roy C., Detroit, Mich. Intake-manifold heater. No. 1,338,527; Apr. 27; v. 273; p. 738.
Reid, Alfred E., *et al.* (See Blankfield, George, assignor.)
Reid, Andrew S. and R., assignors to Reid Brothers Company, Beverly, Mass. Angle-plate. No. 1,338,095; Apr. 27; v. 273; p. 657.
Reid Brothers Company. (See Reid, Andrew S. and R., assignors.)
Reid, Harry F., Minneapolis, Minn. Humidifier. No. 1,336,860; Apr. 13; v. 273; p. 279.
Reid, James E., Moorestown, N. J., and C. Klenle, Philadelphia, Pa.; said Klenle assignor to said Reid. Dental instrument. No. 1,335,987; Apr. 6; v. 273; p. 54.
Reid, Robert. (See Reid, Andrew S. and R.)
Reid, Royal G., Brooklyn, N. Y. Toy chime. No. 1,335,855; Apr. 6; v. 273; p. 28.
Reihing, Anthony, East Toledo, Ohio. Telephone-cord. No. 1,336,859; Apr. 13; v. 273; p. 279.
Reinewald, Ernest W., Ashland, Ohio. Submersible light for fishermen. No. 1,338,528; Apr. 27; v. 273; p. 739.
Reinhardt, William C., and O. H. Banker, assignors to Racine Tool & Machine Co., Racine, Wis. Portable rail-backsaw. No. 1,336,443; Apr. 13; v. 273; p. 199.
Reinhold, Sharp & Company. (See Sharp, Elmer R., assignor.)
Relay Automatic Telephone Company, The. (See Aitken, William, assignor.)
Remalin, Arthur J., Warren, Ohio. Stepladder. No. 1,337,666; Apr. 20; v. 273; p. 506.
Rembert, William E., Humble, Tex. Sample-taking device. No. 1,336,537; Apr. 13; v. 273; p. 217.
Remington Typewriter Company. (See Smith, Arthur W., assignor.)
Remy Electric Company. (See Stone, Guy B., assignor.)
Renault, Louis. (See Fuchs, Ernest, assignor.)
Rentz, William C., Atlanta, Ga. Spark-plug. No. 1,337,959; Apr. 20; v. 273; p. 562.
Reppe, Sever C., Winifred, Mont. Wire-stretcher. No. 1,337,159; Apr. 13; v. 273; p. 336.
Reppiler, James M., *et al.*, trustees. (See Milliken, Foster.)
Republic Iron and Steel Company. (See Pinger, George C., assignor.)
Research Corporation. (See Strong, William W., assignor.)
Research Laboratory of Chicago. (See McCormack, Harry, assignor.)
Rew, William O., assignor of one-half to C. E. Gray, Eureka, Calif. Apparatus for treating liquids. No. 1,336,655; Apr. 13; v. 273; p. 239.
Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange apparatus. No. 1,337,325; Apr. 20; v. 273; p. 442.
Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,337,794; Apr. 20; v. 273; p. 530.
Reynolds, Mary J., St. Joseph, Mo. Hoisting and loading mechanism. No. 1,337,667; Apr. 20; v. 273; p. 506.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Yarn-chain trumpet. No. 1,338,329; Apr. 27; v. 273; p. 702.
Rhodes, Albert C., assignor to Draper Corporation, Hopedale, Mass. Furnace. No. 1,336,980; Apr. 13; v. 273; p. 302.
Rhodes, Charles J. (See Webb, T. H., and Rhodes.)
Rice, Chester S., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,337,096; Apr. 13; v. 273; p. 324.
Rice, George W., Twin Falls, Idaho. System of irrigation-pipes. No. 1,336,048; Apr. 6; v. 273; p. 65.
Rice, Nelson D., Yankee, N. Mex. Headlight-controlling mechanism. No. 1,337,849; Apr. 20; v. 273; p. 541.
Rice, Orrin, Los Angeles, Calif., assignor to U. S. Grant Hinton, Providence, R. I. Air-control mechanism for carbureters. No. 1,337,326; Apr. 20; v. 273; p. 442.
Rice, Reynold J., Waterloo, Iowa. Wire-twisting machine. No. 1,336,159; Apr. 6; v. 273; p. 86.
Richard Auto Mfg. Company, The. (See Richard, François, assignor.)
Richard, François, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Rear-axle construction. No. 1,337,411; Apr. 20; v. 273; p. 458.
Richards, Albert J., assignor of one-half to A. C. De Nisson, Seattle, Wash. Vaporizer. No. 1,338,398; Apr. 27; v. 273; p. 714.
Richards, Horace J., Watervliet, N. Y. Window-shade supporter. No. 1,338,591; Apr. 27; v. 273; p. 750.
Richards Thread Milling Machine Company (1918), The. (See Hardingham, George G. M., assignor.)
Richards, Windsor L., Portland, Oreg. Quick-acting dust-cap for inflating valve-stems. No. 1,337,371; Apr. 20; v. 273; p. 451.
Richardson, Charles F., Woonsocket, R. I., assignor, by mesne assignments, to G. B. Pitts, trustee, Cleveland, Ohio. Vending-machine. No. 1,336,389; Apr. 6; v. 273; p. 129.
Richardson, Elmer E., assignor of one-half to G. J. Miller, Eaton, Ind. Belt-tightener. No. 1,338,096; Apr. 27; v. 273; p. 657.
Richer, Joseph R., and J. O. Hessler, Chicago, Ill. Milling-cutter. No. 1,338,158; Apr. 27; v. 273; p. 669.
Richmond, Everett B., Hartford, Conn., assignor of one-half to W. V. Schnell, Weathersfield, Conn. Washtub. No. 1,337,272; Apr. 20; v. 273; p. 432.
Richter, Johannes, Lindenthal, Cologne, Germany. Cigarette. No. 1,338,529; Apr. 27; v. 273; p. 739.
Rider, Edward A., assignor of one-half to L. R. Mosher, Westbury, N. Y. Aero submarine torpedo. No. 1,337,960; Apr. 20; v. 273; p. 563.
Riebeth, George H., Minneapolis, Minn. Battery-tester. No. 1,337,160; Apr. 13; v. 273; p. 336.
Ries, Louis N., Kansas City, Mo. Explosive-engine starter. No. 1,338,159; Apr. 27; v. 273; p. 669.
Riggins, Wyatt S. (See Sims, James G., assignor.)
Riggs, Fletcher S., Marshall, Tex. Electric-light switch. No. 1,335,753; Apr. 6; v. 273; p. 10.
Rilber, Claus N., assignor to Norsk Alkali A/S, Trondhjem, Norway. Electrolyzing apparatus. No. 1,337,724; Apr. 20; v. 273; p. 517.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,336,583; Apr. 13; v. 273; p. 226.
Ringer, Sören, Copenhagen, Denmark. Arrangement for letter-files and the like. No. 1,336,584; Apr. 13; v. 273; p. 226.
Ringmann, Andrew. (See Weeks, Frank E., assignor.)
Rishel, Arlington E., Seattle, Wash. Electric switch. No. 1,337,061; Apr. 20; v. 273; p. 563.
Risk, George A., Brooklyn, N. Y. Pencil and case. No. 1,337,412; Apr. 20; v. 273; p. 458.
Ritterbush, Charles H. (See Muzzy, Ernest E., assignor.)
Riviere, Jean, New York, N. Y. Turning mechanism for motor-vehicles. No. 1,335,856; Apr. 6; v. 273; p. 28.
Rix, George T., Denver, Colo. Milk-bottle carrier. No. 1,336,049; Apr. 6; v. 273; p. 65.
Robbins, Daniel W., Metcalf, Ill. Combination rack and ironing-board. No. 1,335,857; Apr. 6; v. 273; p. 28.
Roberts, Albert J., assignor to Pittsburgh Garbage Incineration Co., Incorporated, Pittsburgh, Pa. Garbage-incinerator. No. 1,337,668; Apr. 20; v. 273; p. 506.
Roberts, Charles, Newark, N. J. Sign mechanism. No. 1,336,585; Apr. 13; v. 273; p. 226.
Roberts, Charles E., Oak Park, Ill. Dandelion-rake. No. 1,336,861; Apr. 13; v. 273; p. 279.
Roberts, Frank E., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,337,273; Apr. 20; v. 273; p. 432.
Roberts, George W., Menard, Tex. Windmill-gearing. No. 1,336,758; Apr. 13; v. 273; p. 259.
Roberts, James M., near St. Joseph, Mo. Vehicle-jack. No. 1,335,858; Apr. 6; v. 273; p. 29.
Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)
Robinson, Hugh G., Philadelphia, Pa. Resilient heel-plate for shoes. No. 1,337,962; Apr. 20; v. 273; p. 563.
Robinson, Joseph C. (See Hodge, G. H., and Robinson.)
Robinson-Roders Co., The. (See Young, Cyrus H., assignor.)

Robinson, William A., Minneapolis, Minn. Barrel-handling device. No. 1,335,796; Apr. 6; v. 273; p. 18.
Rock Island Plow Company. (See Kaupe, Lee H., assignor.)
Rockett, James, Cleveland, Ohio. Dust-proof and moth-proof wardrobe. No. 1,335,920; Apr. 6; v. 273; p. 41.
Rockwell, Hugh M., Bristol, Conn., assignor to The Martin-Rockwell Corporation, New York, N. Y. Gun-mount. No. 1,337,327; Apr. 20; v. 273; p. 443.
Roe, Alliott V., Hamble, Southampton, England. Apparatus for tilting planes on aerial craft. No. 1,336,160; Apr. 6; v. 273; p. 86.
Roe, Alliott V., Bursledon, near Southampton, and R. J. Parrott, Hedge End, near Southampton, England. Stabilizing-plane on aerial craft. No. 1,336,161; Apr. 6; v. 273; p. 86.
Roe, John P., London, England. Means for protecting ships. No. 1,338,530; Apr. 27; v. 273; p. 739.
Roebuck, Alvah C., Evanston, Ill. Safety-razor. No. 1,336,923; Apr. 13; v. 273; p. 292.
Roffy, Joseph T., Pittsburgh, Pa. Carbureter. No. 1,338,330; Apr. 27; v. 273; p. 702.
Rogers, Allen, Brooklyn, assignor to The Ocean Leather Co., New York, N. Y. Treating shark-skins and the like preparatory to tanning. No. 1,338,531; Apr. 27; v. 273; p. 739.
Roggiuger, John, Chicago, Ill. Extension-table. No. 1,335,859; Apr. 6; v. 273; p. 29.
Rogozea, Sava, Paris, France. Torpedo-shooting device. No. 1,336,656; Apr. 13; v. 273; p. 239.
Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. No. 1,335,797; Apr. 6; v. 273; p. 18.
Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Device for preventing excessive wear on car-lighting dynamos. No. 1,338,041; Apr. 27; v. 273; p. 647.
Roirant, Emile, assignor to A. Wilzin, St.-Ouen, France. Glass shaping and blowing machine. No. 1,337,723; Apr. 20; v. 273; p. 517.
Roland & Whytock Company. (See Balnton, George W., assignor.)
Rolfe, Alfred, Brockville, Ontario, Canada. Clip. No. 1,337,963; Apr. 20; v. 273; p. 563.
Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lantern-burner. No. 1,337,795; Apr. 20; v. 273; p. 531.
Romaniello, Leonard, Dunmore, Pa. Revolving toy. No. 1,337,483; Apr. 20; v. 273; p. 471.
Roos, Alphonse, Chicago, Ill. Hydraulic motor for churn-operating devices. No. 1,338,399; Apr. 27; v. 273; p. 714.
Roos, Delmar G., assignor to The Locomobile Company of America, Bridgeport, Coun. Oiling device. No. 1,338,160; Apr. 27; v. 273; p. 670.
Root, Floyd A., Lockport, N. Y. Advertising-sign. No. 1,338,532; Apr. 27; v. 273; p. 739.
Roppo, Dominic, *et al.* (See Pain, William, assignor.)
Rose, Isabell M., Leroy Tex. Percolator. No. 1,337,964; Apr. 20; v. 273; p. 563.
Rose, Osbourne J. (See Clayton, H. R. H., and Rose.)
Rosenberger, Charles B., Pittsburgh, Pa. Game-board. No. 1,337,274; Apr. 20; v. 273; p. 432.
Rosendahl, Nils M., Winthrop Harbor, Ill., assignor to F. C. Austin, Chicago, Ill. Batchometer. No. 1,336,586; Apr. 13; v. 273; p. 226.
Rosenthal, Joe. (See McPherson, Arthur E., assignor.)
Rosier, Charles, New York, N. Y. Apparatus for drying coated films. No. 1,336,050; Apr. 6; v. 273; p. 65.
Ross, Edward T., Newark, N. J., and M. O. Trudeau, Woodmont, Conn. Driving-axle construction for vehicles. No. 1,338,042; Apr. 27; v. 273; p. 647.
Ross, Scott C. (See Ruppel, Richard, assignor.)
Rotary Rod Weeder and Manufacturing Company. (See Van Patten, Louis C., assignor.)
Rotary Rod Weeder and Manufacturing Company. (See Wolfe, Garnett H., assignor.)
Roth, Ernst, Nieder-Uzwil, Switzerland. Feeding device for grinding cylinder-mills. No. 1,337,567; Apr. 20; v. 273; p. 487.
Roth, Lucy. (See Roth, Matt and L.)
Roth, Matt and L., Muskogee, Okla. Combination shade and curtain holder. No. 1,336,051; Apr. 6; v. 273; p. 65.
Roth, Otto J., Richmond Hill, N. Y. Ice-cream-cone holder. No. 1,338,192; Apr. 27; v. 273; p. 675.
Rothfuchs, Louis, assignor to The Warren Featherbone Company, Three Oaks, Mich. Automatic controlling attachment for looms. No. 1,336,089; Apr. 6; v. 273; p. 73.
Rothwell, Richard, Los Angeles, Calif. Railway-crossing. No. 1,338,253; Apr. 27; v. 273; p. 687.
Roubieu, Etienne M. (See Muntz, G. M., and Roubleu.)
Round, John C., London, England. Box or crate. No. 1,338,533; Apr. 27; v. 273; p. 739.
Rousso, Jacques, Los Angeles, Calif. Towel-cabinet. No. 1,338,097; Apr. 27; v. 273; p. 658.
Rowe, Robert. (See Ewing, Guss, assignor.)
Rowland, Elmo C., Marshalltown, Iowa. Automobile-engine attachment. No. 1,338,534; Apr. 27; v. 273; p. 740.
Rowleff, Oliver, *et al.* (See Carroll, Andrew L., assignor.)
Roy, William J., and J. B. Danel, Seattle, Wash. Fire-alarm signaling device. No. 1,337,161; Apr. 13; v. 273; p. 336.
Royan, George, Chicago, Ill., assignor to American Oven & Machine Company, Mixing-machine. No. 1,336,862; Apr. 13; v. 273; p. 280.
Royer, Edwin C., and B. J. Boyle, Philadelphia, Pa. Clench or expansion nail. No. 1,335,162; Apr. 6; v. 273; p. 87.
Rozenske, Harry, Detroit, Mich. Ash-sifter. No. 1,336,538; Apr. 13; v. 273; p. 217.
Ruby, Charles F., Shawnee, Okla. Cement-molding apparatus. No. 1,336,539; Apr. 13; v. 273; p. 217.
Ruddick, John J., Newton, Mass. Trolley-switch. No. 1,336,485; Apr. 13; v. 273; p. 207.
Ruddick, John J., Newton, Mass. Block-signal system. No. 1,336,486; Apr. 13; v. 273; p. 207.
Rugh, Harry O., Chicago, Ill. Relay system. No. 1,337,797; Apr. 20; v. 273; p. 531.
Ruiter, Vern L., Roseburg, Oreg. Therapeutic apparatus for treatment of the lower portion of the body. No. 1,337,798; Apr. 20; v. 273; p. 531.
Rullman, David D., Omaha, Nebr. Operating device for washing-machines. No. 1,335,754; Apr. 6; v. 273; p. 10.
Rumple, Alva H., Des Moines, Iowa. Sawing-machine. No. 1,335,798; Apr. 6; v. 273; p. 18.
Runnion, David A., Fortress Monroe, Va. Valve-grinder. No. 1,336,863; Apr. 13; v. 273; p. 280.
Ruoff, John, assignor to Indiana Veneer and Panel Company, New Albany, Ind. Clamping device. No. 1,337,484; Apr. 20; v. 273; p. 471.
Ruoff, John, assignor to Indiana Veneer and Panel Company, New Albany, Ind. Round-top work. No. 1,337,485; Apr. 20; v. 273; p. 472.
Ruppel, Frederick C. (See Jacobs, G., and Ruppel.)
Ruppel, Richard, New York, assignor to S. C. Ross, Buffalo, N. Y. Expansion-joint. No. 1,336,924; Apr. 13; v. 273; p. 292.
Russ, Friend A., Greenwich, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,338,535; Apr. 27; v. 273; p. 740.
Russ, Friend A., Greenwich, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,338,536; Apr. 27; v. 273; p. 740.
Russ, John U., Derby, Conn., assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,337,965; Apr. 20; v. 273; p. 564.
Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Pipe-coil. No. 1,335,799; Apr. 6; v. 273; p. 18.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway-car. No. 1,336,864; Apr. 13; v. 273; p. 280.
Rust, Arthur E. (See Crouch, W. L., and Rust.)
Rutenber, Edwin A., assignor to Rutenber Electric Co., Marion, Ind. Electric heating unit. No. 1,337,725; Apr. 20; v. 273; p. 518.
Rutenber Electric Co. (See Rutenber, Edwin A., assignor.)
Ruud, Edwin, Pittsburgh, Pa. Fluid-mixing apparatus. (Reissue.) No. 14,836; Apr. 6; v. 273; p. 133.
Rydbeck, Patrik S., Gottenborg, Sweden. Apparatus for manufacturing rings, especially track-rings for ball and roller bearings. No. 1,338,462; Apr. 27; v. 273; p. 726.
Rydberg, Helge S. A., Lund, Sweden. Diaphragm-sounder and the like. No. 1,335,921; Apr. 6; v. 273; p. 41.
Rydberg, Helge S. A., Malmö, Sweden. Diaphragm-horn. No. 1,337,162; Apr. 13; v. 273; p. 336.
Ryder, Gilbert E., Leonia, N. J. Locomotive-firebox arch. No. 1,337,486; Apr. 20; v. 273; p. 472.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detector for looms. No. 1,337,726; Apr. 20; v. 273; p. 518.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Winding-machine. No. 1,337,727; Apr. 20; v. 273; p. 518.
S and S Window Corporation. (See Clermont, John B., assignor.)
Sabo, Louis, Beaver Falls, Pa. Trolley-head. No. 1,338,193; Apr. 27; v. 273; p. 676.
Sachs, Walter, Petersburg, Va. Trash-receptacle. No. 1,338,400; Apr. 27; v. 273; p. 715.
Sacks, Herman, Chicago, Ill., assignor to A. T. Van Alstyn, Grand Rapids, Mich. Hose-supporter. No. 1,336,053; Apr. 6; v. 273; p. 66.
Safe-Cabinet Company, The. (See Dick, R. H., and Wolters, assignors.)
Safepack Mills. (See Schenkelberger, Albert E., assignor.)
Safety Car Heating & Lighting Company. (See Thomson, William I., assignor.)
Said, Jesse M., assignor to Corning Glass Works, Corning, N. Y. Burner for fire-polishing glassware. No. 1,337,328; Apr. 20; v. 273; p. 443.
Sakanye, Suyeji, East San Pedro, Calif. Sea-current-direction indicator. No. 1,336,925; Apr. 13; v. 273; p. 292.
Salisbury, Orange J., assignor to United Filters Corporation, Salt Lake City, Utah. Method of and apparatus for filtration. No. 1,336,444; Apr. 13; v. 273; p. 199.
Salles, Pierre M. R., Canderan, France. Incandescent-electric-lamp holder. No. 1,336,587; Apr. 13; v. 273; p. 226.
Salzer, Arthur, New York, N. Y. Lamp. No. 1,338,194; Apr. 27; v. 273; p. 676.
Sampietro, Cornelius, Brooklyn, N. Y. Portable hygroscope. No. 1,336,380; Apr. 6; v. 273; p. 128.

Sams, Homer. (See Martin, B. W., and Sams.)
Sandberg, Johan H. (See Uhr, N. W., and Sandberg.)
Sandby, Robert, Chicago, Ill. Permanently producing picture or like effects upon enameled metal surfaces. No. 1,335,755; Apr. 6; v. 273; p. 10.
Sandin, Arthur L., Bismarck, N. D. Cotter-pin puller. No. 1,338,043; Apr. 27; v. 273; p. 648.
Sands Manufacturing Company, The. (See Raffel, Ferdinand A., assignor.)
Sands, Robert B., Spencer, Iowa. Inner liner for cementtile pallets. No. 1,336,865; Apr. 13; v. 273; p. 280.
Sandt, Arthur R., C. F. Walz, and M. L. Stahl, Minneapolis, Minn. Platform and mud-guard. No. 1,337,275; Apr. 20; v. 273; p. 432.
Sanford, Crocker H., assignor to the Old Dominion Specialty Co., Inc., Baltimore, Md. Fluid-mixing apparatus. No. 1,338,592; Apr. 27; v. 273; p. 750.
Sangamo Electric Company. (See Emens, Albert L., assignor.)
Santler, Thomas C., Malvern Link, England. Motor-plow. No. 1,338,195; Apr. 27; v. 273; p. 676.
Sargent & Company. (See Roberts, Frank E., assignor.)
Sargent's, C. G., Sons Corporation. (See Cilley, Osborn H., assignor.)
Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
Sargery, Joseph A., and O. Dupont, Sherbrooke, Quebec, Canada. Fountain-toothbrush. No. 1,336,390; Apr. 6; v. 273; p. 130.
Sass, Fred J., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove. No. 1,338,463; Apr. 27; v. 273; p. 726.
Saulze, Antoine, Lyon, France. Autogenous-welding apparatus. No. 1,335,922; Apr. 6; v. 273; p. 41.
Saurer, Firma Adolphe. (See Schlatter, Gustav, assignor.)
Sauter, Herman, assignor to Latham Automatic Registering Company, Chicago, Ill. Registering-hook. No. 1,336,487; Apr. 13; v. 273; p. 207.
Saville, George A., Jr., Lincoln, Nebr. Ball-bearing spring. No. 1,338,537; Apr. 27; v. 273; p. 740.
Scarff, Truman M., Springvalley, Ohio. Roofing. No. 1,335,756; Apr. 6; v. 273; p. 10.
Schaab, Richard. (See Hunt, H., and Schaab.)
Schacht, Julius, New York, N. Y. Danger-signal for automobiles. No. 1,336,381; Apr. 6; v. 273; p. 128.
Schäfer, Max, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Distributer for high-tension igniting devices. No. 1,337,329; Apr. 20; v. 273; p. 443.
Schapel, Karl, Tacoma, Wash. Infant-chair. No. 1,338,401; Apr. 27; v. 273; p. 715.
Scharmann, Otto T., Marshfield, Wis. Water-circulating pump for combustion-engines. No. 1,336,091; Apr. 6; v. 273; p. 73.
Schaub, Eugene, Logan, Utah. Water stage and discharge recorder. No. 1,336,090; Apr. 6; v. 273; p. 73.
Schauer, Martha K., Dayton, Ohio. Drawing-table. No. 1,338,254; Apr. 27; v. 273; p. 687.
Schell, Charles F., Buffalo, N. Y. Signaling device. No. 1,337,669; Apr. 20; v. 273; p. 507.
Schenkelberger, Albert F., Quincy, assignor to Safepack Mills, Boston, Mass. Protecting-holder for tennis-rackets and the like. No. 1,336,092; Apr. 6; v. 273; p. 73.
Scheuch, William A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-resistance alloy. No. 1,337,276; Apr. 20; v. 273; p. 433.
Schickluna, Joseph J., Buffalo, N. Y. Protective casing for electric meters. No. 1,337,163; Apr. 13; v. 273; p. 336.
Schlerding, William, Spokane, Wash. Automobile-signal. No. 1,336,588; Apr. 13; v. 273; p. 226.
Schimmel, Fridolin, Faribault, Minn. Rock-rack. No. 1,336,981; Apr. 13; v. 273; p. 302.
Schirm, Erik. (See Moest, M., and Schirm.)
Schlatter, Gustav, Steinach, assignor to Firma Adolphe Saurer, Arbon, Switzerland. Tower-wagon. No. 1,337,487; Apr. 20; v. 273; p. 472.
Schlemmer, George, New York, N. Y. Indexed memorandum-pad. No. 1,338,331; Apr. 27; v. 273; p. 702.
Schlesinger, M., Inc. (See Schlesinger, Morris, assignor.)
Schlesinger, Morris, assignor to M. Schlesinger, Inc., New York, N. Y. Bedstead corner-fastening. No. 1,337,799; Apr. 20; v. 273; p. 531.
Schlingloff, William H., Jersey City, N. J. Phonograph-record holder. No. 1,336,382; Apr. 6; v. 273; p. 128.
Schlueter, John H., Cincinnati, Ohio. Vessel. No. 1,336,866; Apr. 13; v. 273; p. 280.
Schmid, Christian, Philadelphia, Pa. Rust-preventing composition. No. 1,335,757; Apr. 6; v. 273; p. 10.
Schmidt, Benjamin F., Exeter, Calif. Safety device for firearms. No. 1,335,988; Apr. 6; v. 273; p. 54.
Schmidt, John E., and C. E. McArthur, Chicago, Ill. Rod-cutter. No. 1,336,589; Apr. 13; v. 273; p. 227.
Schmidt, Otto, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., Soluble condensation product and making it. No. 1,336,759; Apr. 13; v. 273; p. 260.
Schmidt, Valdemar, Los Angeles, Calif. Cutter for excavators. No. 1,336,657; Apr. 13; v. 273; p. 239.
Schmidt, Valdemar, Los Angeles, Calif. Road-maker, excavator, and grader. No. 1,336,658; Apr. 13; v. 273; p. 240.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Classifying finely-divided material. No. 1,335,758; Apr. 6; v. 273; p. 10.
Schmitt, John A. (See Eklundh, J. G. G., Oden, and Schmitt.)
Schmitt, Nicholas, Brooklyn, N. Y. Gas-stove. No. 1,337,413; Apr. 20; v. 273; p. 458.
Schmitz, Charles A., *et al.* (See Buckley, John J., assignor.)
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Road wheeled unit for artillery and other purposes. No. 1,335,759; Apr. 6; v. 273; p. 11.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety mechanism for use with gun breech-blocks comprising removable firing-tube holders. No. 1,336,093; Apr. 6; v. 273; p. 74.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Aiming apparatus for guns. No. 1,336,094; Apr. 6; v. 273; p. 74.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Single-trail gun-carriage. No. 1,336,095; Apr. 6; v. 273; p. 74.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety mechanism for use with gun breech-blocks comprising removable firing-tube holders. No. 1,336,096; Apr. 6; v. 273; p. 74.
Schneider, George X., Blue Island, assignor to the Curtain Supply Company, Chicago, Ill. Seat structure. No. 1,336,097; Apr. 6; v. 273; p. 75.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-carriage frame. No. 1,336,926; Apr. 13; v. 273; p. 292.
Schneider, Jacques, and F. Billon, Solothurn, Switzerland. High-tension distributer for internal-combustion engines. No. 1,337,966; Apr. 20; v. 273; p. 564.
Schneider, John L., *et al.* (See Hemmer, Frederick L., assignor.)
Schneider, Louis, Clinton, Mo. Sleeve construction. No. 1,338,098; Apr. 27; v. 273; p. 658.
Schnell, Winfield N. (See Richmond, Everett B., assignor.)
Schnurr, Georg, Philadelphia, Pa. Locomotive-scale. No. 1,338,593; Apr. 27; v. 273; p. 750.
Schoen, Max, San Francisco, Calif. Toy gun. No. 1,337,967; Apr. 20; v. 273; p. 564.
Schoenle, Walter M. (See Benzinger, Albert, assignor.)
Schoenwolf, Fred, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,336,098; Apr. 6; v. 273; p. 75.
Scholz, Rudolph, Newark, N. J. Saddle attachment for motorcycles and the like. No. 1,337,025; Apr. 13; v. 273; p. 310.
Schorr, Robert, assignor to Byron Jackson Iron Works, Inc., San Francisco, Calif. Bearing-protector for deep-well pumps and the like. No. 1,336,540; Apr. 13; v. 273; p. 218.
Schoute, Cornelis, De Bilt, near Utrecht; F. A. van Heyst, Soesterberg, and N. E. G. Meyer, Bosch en Duin, near Zeist, Netherlands. Apparatus for determining the position or the movement of a body or controlling the auxiliary devices dependent on said position or movement. No. 1,336,399; Apr. 6; v. 273; p. 131.
Schrader's, A., Son. (See Myers, Eugene V., assignor.)
Schram, Alexander L. (See Davidson, S., and Schram.)
Schram Glass Manufacturing Company. (See Davidson, S., and Schram.)
Schrenkeisen, Arthur, New York, N. Y. Globe. No. 1,335,923; Apr. 6; v. 273; p. 41.
Schroeder, Charles, Neillsville, Wis. Audible signaling device. No. 1,337,277; Apr. 20; v. 273; p. 433.
Schroeder, Jesse L., Erie, N. D. Machine for cutting up potatoes for planting. No. 1,337,968; Apr. 20; v. 273; p. 564.
Schulz, Gustav O., Revere, Mass. Vacuum-receptacle construction. No. 1,337,278; Apr. 20; v. 273; p. 433.
Schumacher, Charles F., Hillsboro, Ohio. Feeder. No. 1,336,320; Apr. 6; v. 273; p. 116.
Schutte and Koerting Company. (See Zimmermann, Hans, assignor.)
Schwab, Isaac M., Savannah, Ga. Spectacle-temple. No. 1,337,330; Apr. 20; v. 273; p. 443.
Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism. No. 1,337,331; Apr. 20; v. 273; p. 443.
Schweitzer, Edmund O. (See Herz, Alfred, assignor.) (Reissue.)
Scintilla, Firm. (See Bohli, Jacques, assignor.)
Scott, Henry H. (See Raphael, J. H., and Scott.)
Scott, James G., Washington, D. C. Stove. No. 1,335,760; Apr. 6; v. 273; p. 11.
Scott, John M., assignor to M. E. Green Manufacturing Company, St. Louis, Mo. Cabinet for exhibiting eye-testing devices. No. 1,337,728; Apr. 20; v. 273; p. 518.
Scott, John W., Bayside, N. Y., and T. H. Greer, Bloomfield, N. J. Safety-thread. No. 1,338,332; Apr. 27; v. 273; p. 702.
Scott, Lewis L., St. Louis, Mo. Combustion apparatus. No. 1,336,261; Apr. 6; v. 273; p. 105.
Scott, William D., Martins Ferry, Ohio. Rail-chair. No. 1,336,099; Apr. 6; v. 273; p. 75.
Scott, William M., Tredyffrin township, Chester county, Pa. Control system. No. 1,336,488; Apr. 13; v. 273; p. 207.

Scott, William M., Philadelphia, Pa. Stone-spreader. No. 1,338,161; Apr. 27; v. 273; p. 670.
Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)
Scovill Manufacturing Company. (See Davis, Joseph K., assignor.)
Scriven, Bernard E., Mount Vernon, N. Y., assignor to Plimpton Press, Norwood, Mass. Elevating-truck. No. 1,338,255; Apr. 27; v. 273; p. 687.
Searight-Downs Manufacturing Co. (See Evon, Louis C., assignor.)
Searle, Frederick B., Denver, Colo. Fire-door-operating device. No. 1,336,054; Apr. 6; v. 273; p. 66.
Sebald, George J., assignor of one-half to A. J. Holzbauer, Milwaukee, Wis. Utensil-guard. No. 1,335,761; Apr. 6; v. 273; p. 11.
Sebern, Edward N., *et al.* (See Caywood, James A., assignor.)
Seese, Samuel R., Vanderbilt, Pa. Permutation-switch. No. 1,338,099; Apr. 27; v. 273; p. 658.
Sefton Manufacturing Corporation. (See Clenny, J. E., and Wright, assignors.)
Seger, Ludwig, Edgewater, N. J. Step and wall ladder. No. 1,338,100; Apr. 27; v. 273; p. 658.
Selby, Bert, Indianapolis, Ind. Means for applying paste or the like to paper. No. 1,337,729; Apr. 20; v. 273; p. 518.
Selden Company, The. (See Andrews, Chester E., assignor.)
Sellek, David W., Chicago, Ill. Governor for motor-vehicles. No. 1,338,196; Apr. 27; v. 273; p. 676.
Semple, John B., Sewickley, Pa. Detonator-fuse. No. 1,336,391; Apr. 6; v. 273; p. 130.
Sensibar, Jacob R., Gary, Ind. Method of and apparatus for collecting and delivering sand. No. 1,337,279; Apr. 20; v. 273; p. 433.
Service Carbide Lamp Company. (See Luttrell, John D., assignor.)
Settlage, August C., New Bremen, Ohio. Dumping mechanism for trucks. No. 1,336,163; Apr. 6; v. 273; p. 87.
Severson, Thomas, assignor to Duluth Corrugating & Roofing Company, Duluth, Minn. Tank-heater. No. 1,337,800; Apr. 20; v. 273; p. 531.
Severson, Thomas, assignor to Duluth Corrugating & Roofing Company, Duluth, Minn. Printer's rack. No. 1,338,101; Apr. 27; v. 273; p. 659.
Shafer, Mollie M., Los Angeles, Calif., Douche-tip. No. 1,338,464; Apr. 27; v. 273; p. 727.
Shannon, Baker L., Healton, Okla. Gas-burner. No. 1,337,801; Apr. 20; v. 273; p. 532.
Shannon, S. Q., Pasadena, and H. P. Randall, Los Angeles, Calif.; said Randall assignor to said Shannon. Automobile lock and traction device. No. 1,337,568; Apr. 20; v. 273; p. 487.
Shannon, William H., Astoria, Ill. Corn-cultivator attachment. No. 1,338,594; Apr. 27; v. 273; p. 750.
Shapiro, Herman, Cleveland, Ohio, assignor of one-half to A. E. Bernsteen and F. S. Day. Photograph-printing apparatus. No. 1,335,860; Apr. 6; v. 273; p. 29.
Sharp, Elmer, R., assignor to Reinhold, Sharp & Company, Davenport, Iowa. Bottle-capper. No. 1,338,656; Apr. 27; v. 273; p. 762.
Shaw, James, St. Louis, Mo. Dust-cap for protecting automobile-tire valves. No. 1,335,861; Apr. 6; v. 273; p. 29.
Shea, Francis A. (See Tucker, Frank W., assignor.)
Shearer, Fred B. (See Reedy, Maurice W., assignor.)
Shearer, Joe E., assignor to H. D. Lafferty, Oakland, Cal. Vehicle. No. 1,336,100; Apr. 6; v. 273; p. 75.
Shears, Sumner S. (See Lengel, Irvin D., assignor.)
Sheen, Milton R., assignor to Tunnel Machine Manufacturing & Engineering Company, Philadelphia, Pa. Building construction. No. 1,336,789; Apr. 13; v. 273; p. 266.
Sheldon, Aurin T. (See White, H. W., and Sheldon.)
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Delivery mechanism for folded products. No. 1,336,445; Apr. 13; v. 273; p. 199.
Sheldon, George H., Westerly, R. I. Spinning-spindle. No. 1,338,102; Apr. 27; v. 273; p. 659.
Shepherd, Oliver J., New York, N. Y. Puzzle. No. 1,336,541; Apr. 13; v. 273; p. 218.
Sheridan, Thomas F., *et al* (See Hien, Phillip, assignor.)
Shimizu, Yoshi, New York, N. Y. Tire-chain fastener. No. 1,336,383; Apr. 6; v. 273; p. 128.
Shipp, Clarence C., Indianapolis, Ind. Roof-ventilator joint. No. 1,336,590; Apr. 13; v. 273; p. 227.
Shinton, James D., Vancouver, British Columbia, Canada. Electric iron-ore-smelting furnace. No. 1,338,103; Apr. 27; v. 273; p. 659.
Shonk, Charles W., Company. (See Holloway, William M., assignor.)
Shorey, John A., New York, N. Y., assignor to General Electric Company. Apparatus for calibrating U-tubes for flow-meters and the like. No. 1,337,969; Apr. 20; v. 273; p. 564.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Motor-vehicle. No. 1,335,989; Apr. 6; v. 273; p. 54.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,335,990; Apr. 6; v. 273; p. 54.
Short, Charles R., and A. L. Cash, Detroit, Mich. Method and apparatus for making valves for internal-combustion engines. No. 1,335,862; Apr. 6; v. 273; p. 30.
Short, David S., Indianapolis, Ind. Spark-plug. No. 1,335,762; Apr. 6; v. 273; p. 11.
Shortell, William H., West Haven, Conn., assignor to Harlem Contracting Company, New York, N. Y. Block-press. No. 1,336,164; Apr. 6; v. 273; p. 87.
Shropshire, George W., Branch, and T. B., Peterpender, Ark. Spring-wheel. No. 1,337,569; Apr. 20; v. 273; p. 488.
Shropshire, Thomas B. (See Shropshire, George W., and T. B.)
Shull, Leo W., assignor to The Allen Filter Company, Toledo, Ohio. Filtering compound. No. 1,336,591; Apr. 13; v. 273; p. 227.
Shurtleff, Wilfred, Moline, Ill. Fuel feeding and mixing device for gas-engines. No. 1,338,104; Apr. 27; v. 273; p. 659.
Shutts, Burton A., and J. O. Goodwin, Holt, Ala. Mechanical molding device. No. 1,3338,162; Apr. 27; v. 273; p. 670.
Siakel, Daniel. (See O'Brien, W. H., and Siakel.)
Sibbald, William H., Minot, N. D., assignor to E. E. Clement, Washington, D. C. Attachment for internal-combustion engines. No. 1,336,592; Apr. 13; v. 273; p. 227.
Sibbett, George E., Berkeley, Calif. Tractor-tread link. No. 1,338,402; Apr. 27; v. 273; p. 715.
Sibley, Frederick H. (See Wellman, F. E., and Sibley.)
Sibley, James T., Paterson, N. J. Mechanical starter for phonograph-motors. No. 1,337,280; Apr. 20; v. 273; p. 433.
Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron, zirconium and titanium and production thereof. No. 1,335,991; Apr. 6; v. 273; p. 55.
Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York. Producing zirconium steel. No. 1,335,992; Apr. 6; v. 273; p. 55.
Sidwell, Benjamin W., Buffalo, N. Y., assignor to The Beaver Company. Wall-board size. No. 1,336,055; Apr. 6; v. 273; p. 66.
Siemens & Halske Aktiengesellschaft. (See Gerdien, Hans, assignor.)
Sieverkropp, Henry R., Racine, Wis. Rotary internal-combustion engine. No. 1,338,256; Apr. 27; v. 273; p. 688.
Sifleet, Stephen B., Pirongia, Waikato, New Zealand. Milk-claw support. No. 1,336,593; Apr. 13; v. 273; p. 227.
Sills, Frederick R., Elmwood, assignor of one-half to Carolina Motor Company, Statesville, N. C. Power-shovel. No. 1,337,332; Apr. 20; v. 273; p. 443.
Silver Manufacturing Company, The. (See Haldeman, James C., assignor.)
Silvius, Ellis T., assignor to M. H. Barton, Indianapolis, Ind. Cutter-bar and bit-chain for mining-machines. No. 1,336,927; Apr. 13; v. 273; p. 292.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,338,333; Apr. 27; v. 273; p. 702.
Simmons, Charles S., Norfolk, Va. Toy. No. 1,337,570; Apr. 20; v. 273; p. 488.
Simmons Company. (See Brown, Harvey E., assignor.)
Simmons Company. (See Gail, John F., assignor.)
Simmons Company. (See Travis, D. C., and Kusterle, assignors.)
Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Method and apparatus for allning work on V-blocks and the like for magnetic chucks. No. 1,336,928; Apr. 13; v. 273; p. 293.
Simmons, James L., assignor of fifty-one per cent. to T. W. Buckey and twenty-four and one-half per cent. to W. C. Nalle, Washington, D. C. Machine for making aeroplane-propellers. No. 1,336,659; Apr. 13; v. 273; p. 240.
Simms, Amos H., Chicago, Ill. Railway safety device. No. 1,336,986; Apr. 13; v. 273; p. 303.
Simms, Edward R., Scottdale, Pa. Vehicle-tire. No. 1,336,790; Apr. 13; v. 273; p. 266.
Simms, Harold H. (See Heberling, John, assignor.)
Simone, Joseph A. S., Inwood, N. Y. Adjustable window-screen. No. 1,336,101; Apr. 6; v. 273; p. 75.
Simpson, Charles F., Oakland, Calif. Telephone-receiver holder. No. 1,336,929; Apr. 13; v. 273; p. 293.
Simpson, Herbert S., Evanston, Ill. Foundry-mixer. No. 1,337,333; Apr. 20; v. 273; p. 444.
Sims, Frederick L. H., assignor to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Metal bending and forming machine. No. 1,336,660; Apr. 13; v. 273; p. 240.
Sims, James G., assignor of one-fourth to W. S. Riggins, Bowie, Tex. Cotton-chopping machine. No. 1,336,708; Apr. 13; v. 273; p. 250.
Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
Singer Manufacturing Company, The. (See Barron, W. L., and Osol, assignors.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.
Singer Manufacturing Company, The. (See Eames, G. M., and Finch, assignors.)
Singletary, Emerson W. (See Bergeron, Clovis, assignor.)
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Reinforced-end structure for railway-cars. No. 1,337,281; Apr. 20; v. 273; p. 433.
Skipworth, Richmond T., Utica, Miss. Nut-lock. No. 1,337,164; Apr. 13; v. 273; p. 337.

Skopal, Carl, Lethbridge, Alberta, Canada. Gun-sight. No. 1,336,165; Apr. 6; v. 273; p. 87.
Slawter, Ira Leon, Grand Prairie, Alberta, Canada. Automatic timer. No. 1,337,282; Apr. 20; v. 273; p. 434.
Slepian, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,338,334; Apr. 27; v. 273; p. 703.
Sloan, Wayne F., Pomeroy, Ohio. Mold for drain-tiles. No. 1,336,867; Apr. 13; v. 273; p. 280.
Sloan, William E., Chicago, Ill. Closet-seat. No. 1,337,730; Apr. 20; v. 273; p. 519.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Storage-battery locomotive. No. 1,337,334; Apr. 20; v. 273; p. 444.
Slocum, Conrad A., Haswell, Colo. Tractor-wheel. No. 1,338,105; Apr. 27; v. 273; p. 659.
Smart, Rupert B., Chicago, Ill. Addressograph. No. 1,337,970; Apr. 20; v. 273; p. 565.
Smart, W. L. (See Rashell, Edward A., assignor.)
Smith, Arthur G. (See Preston, Grace D., assignor.)
Smith, Arthur L., Portland, Oreg. Internal-combustion motor. No. 1,336,392; Apr. 6; v. 273; p. 130.
Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,335,993; Apr. 6; v. 273; p. 55.
Smith Cannery Machines Co. (See Wangh, Edward H., assignor.)
Smith, Claud F., Kalamazoo, Mich. Signal device. No. 1,336,489; Apr. 13; v. 273; p. 207.
Smith, Edwin R., Paris, Tex. Bottle-holder. No. 1,338,106; Apr. 27; v. 273; p. 660.
Smith, Ernest J., assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism. No. 1,338,044; Apr. 27; v. 273; p. 648.
Smith, George A., Seattle, Wash. Ratchet-wrench. No. 1,338,257; Apr. 27; v. 273; p. 688.
Smith, George F., Germantown, Pa. Auto-lock. No. 1,336,384; Apr. 6; v. 273; p. 129.
Smith, Harry E. (See Duvall, G. W., Beebe, and Smith.)
Smith, Henry J. (See De Graff, George A., assignor.)
Smith, Herbert J., Kearney, N. J., and E. P. Everett, Flushing, N. Y.; said Smith assignor to Everett Fibre Products Corporation. Die forming and trimming apparatus. No. 1,337,796; Apr. 20; v. 273; p. 531.
Smith, Hiram G. (See Ward, B. M., and Smith.)
Smith, Howard F. (See Nixon, Jeddy D., assignor.)
Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Timing apparatus. No. 1,337,335; Apr. 20; v. 273; p. 444.
Smith, John F., Los Angeles, Calif. Adjustable picture-frame. No. 1,338,258; Apr. 27; v. 273; p. 688.
Smith, John H., Ellinwood, Kans. Straw-spreader. No. 1,338,045; Apr. 27; v. 273; p. 648.
Smith, John W., St. Helens, Oreg. Bevel. No. 1,336,102; Apr. 6; v. 273; p. 75.
Smith, Le Roy M., Chicago, Ill. Automatic liquid-measuring appliance. No. 1,335,800; Apr. 6; v. 273; p. 18.
Smith, Reuben S., Milwaukee, Wis. Drawing-press. No. 1,338,335; Apr. 27; v. 273; p. 703.
Smith, Roscoe L., Newark, assignor to Edison Storage Battery Company, West Orange, N. J. Galvanic battery. No. 1,338,465; Apr. 27; v. 273; p. 727.
Smith, T. L., Company, The. (See Brackenbury, Edward W., assignor.)
Smith, Thomas, Meadville, Pa. Rod-packing. No. 1,338,163; Apr. 27; v. 273; p. 670.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin-puller. No. 1,337,670; Apr. 20; v. 273; p. 507.
Smith, William A., Denver, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Impact-engine. No. 1,338,259; Apr. 27; v. 273; p. 688.
Smith, William I., Stockton, Kans. Railway-signal. No. 1,337,283; Apr. 20; v. 273; p. 434.
Smulski, Edward, Hastings-upon-Hudson, N. Y. Concrete-reinforcing means. No. 1,336,166; Apr. 6; v. 273; p. 87.
Snead & Co. Iron Works, The. (Macdonald, Harry P., assignor.)
Snell, William T., El Paso, Tex. Cylinder-grinding attachment for lathes. No. 1,335,994; Apr. 6; v. 273; p. 55.
Snider, Ellsworth, Monroeville, Ind. Wheel for tractors. No. 1,336,791; Apr. 13; v. 273; p. 266.
Società Anonima Italiana Gio. Ansaldo & C. (See Almagia, L., and Guerreschi, assignors.)
Societe Des Moteurs Salmon (Systeme Canton-Unne. (See Postal-Vinay, Pierre J. R., assignor.)
Society of Chemical Industry in Basle. (See Anderwert, E., and Fritzsche, assignors.)
Society of Chemical Industry in Basle. (See Gams, Alphons, assignor.)
Society of Chemical Industry in Basle. (See Jagerspacher, C., and Isler, assignors.)
Society of Chemical Industry in Basle. (See Reber, Emil, assignor.)
Soehren, John H., Seattle, Wash. Dish-cloth holder. No. 1,338,107; Apr. 27; v. 273; p. 660.
Sollie, Klaus, Youngstown, Ohio. Mine-car. No. 1,338,046; Apr. 27; v. 273; p. 648.
Sollima, Antonio. (See Sollima, Carmelo, assignor.)
Sollima, Carmelo, Paris, France, assignor of one-half to A. Sollimi, Brooklyn, N. Y. Mechanical device for transmitting and regulating speed. No. 1,336,542; Apr. 13; v. 273; p. 218.
Somerville, Albert A., Flushing, N. Y., assignor to New York Belting & Packing Company. Artificial leather. No. 1,337,862; Apr. 20; v. 273; p. 532.
Sommer, Robert. (See Klousnitzer, Frank, assignor.)
Sonneborn, Sol S., Brooklyn, N. Y. Twin-bar suspension-insulator. No. 1,337,284; Apr. 20; v. 273; p. 434.
Sopcense, Mike, Soperton, Wis. Water-bicycle. No. 1,337,372; Apr. 20; v. 273; p. 451.
Sordillo, Fortunato, Dorchester, Mass. Mute. No. 1,338,108; Apr. 27; v. 273; p. 660.
Sorenson, John G. (See Bourdeau, Leon N., assignor.)
Soss, Joseph, New York, N. Y. Hinge. No. 1,338,260; Apr. 27; v. 273; p. 688.
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Sparks, William, assignor to Sparks-Withington Company, Jackson, Mich. Horn. No. 1,336,594; Apr. 13; v. 273; p. 228.
Sparks-Withington Company. (See Sparks, William, assignor.)
Spaulding, George T., Cambridge, N. Y. Identification-tag. No. 1,335,995; Apr. 6; v. 273; p. 55.
Speaks, John A., Stella, Mo. Smoke-flue. No. 1,337,731; Apr. 20; v. 273; p. 519.
Specials Chemicals Company. (See Pfanstiehl, Carl, assignor.)
Spence, Howard. (See Wrigley, H., and Spence.)
Spence, Lewis D., East Providence, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Calipers. No. 1,337,165; Apr. 13; v. 273; p. 337.
Spence, Peter, & Sons, Limited. (See Wrigley, H., and Spence, assignors.)
Spencer, Henry B., Ottawa, Ontario, Canada. Rail-torpedo safety and positive lock. No. 1,336,792; Apr. 13; v. 273; p. 266.
Spencer, Henry W., London, and R. Clark, Kew Gardens, England. Water-level alarm apparatus for steam-generators. No. 1,338,197; Apr. 27; v. 273; p. 676.
Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Rotary blower. No. 1,338,466; Apr. 27; v. 273; p. 721.
Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)
Spencer, William O., assignor of one-half to E. E. George, Shreveport, La. Bomb. No. 1,335,996; Apr. 6; v. 273; p. 55.
Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic selecting-switch. No. 1,337,285; Apr. 20; v. 273; p. 434.
Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,661; Apr. 20; v. 273; p. 507.
Sperry Gyroscope Company. (See Champlin, Francis M., assignor.)
Spery, Philmore F., Chicago, Ill. Radiator for motor-vehicles. No. 1,335,997; Apr. 6; v. 273; p. 56.
Spicer, James, and Sons. (See Holmes, James S., assignor.)
Spinasse, Arthur E., Mount Vernon, Ohio. Method of and apparatus for drawing glass. No. 1,336,056; Apr. 6; v. 273; p. 66.
Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
Splitdorf Electrical Company. (See Broegger, Ivar W., assignor.)
Splitdorf Electrical Company. (See Kiefer, John M., Jr., assignor.)
Sponsler, Olenus L., M. E. Dunlap, and S. B. Henning, Madison, Wis., assignors to The United States of America. Manufacturing plywood. No. 1,336,262; Apr. 6; v. 273; p. 105.
Sprague Canning Machinery Company. (See Bucklin, Charles S., assignor.)
Spring, Frederick L., Indianapolis, Ind. Shock-absorbing spring. No. 1,336,167; Apr. 6; v. 273; p. 88.
Springfield Motors Company. (See Hedenstrom, Ernest E. G., assignor.)
Springmeyer, Frederick W. (See Wertz, T., and Springmeyer.)
Sprinkell, William A., Springfield, Ill. Safety-razor-blade protector. No. 1,335,863; Apr. 6; v. 273; p. 30.
Stach, Howard J. (See Weatherly, S. M., and Stach.)
Stadig, Olof L., St. Francis, Me. Planing-machine. No. 1,337,286; Apr. 20; v. 273; p. 434.
Stage, Harold L., Denver, Colo. Rock-drill seating and controlling means. No. 1,336,930; Apr. 13; v. 273; p. 293.
Stageberg, Martin G., Thief River Falls, Minn. Clock-spring. No. 1,337,097; Apr. 13; v. 273; p. 324.
Stahl, Charles E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Excavator-bucket cleaner. No. 1,336,595; Apr. 13; v. 273; p. 228.
Stahl, Henry C., Pompeys Pillar, Mont. Combined umbrella-stand and pedestal. No. 1,336,321; Apr. 6; v. 273; p. 116.
Stahl, Michael L. (See Sandt, A. R., Walz, and Stahl.)
Stamp, Edward S. (See Gould, F. J., and Stamp.)
Standard Detroit Tractor Co. (See Jacobs, George S., assignor.)
Standard Engineering Company. (See Newcomb, Edward C., assignor.)
Standard Parts Company, The. (See Manternach, John C., assignor.)

Standerwick, Reginald G., Lynn, Mass., assignor to General Electric Company. Turbine-driven set. No. 1,337,098; Apr. 13; v. 273; p. 325.

Standley, Melvin H., assignor of one-half to W. Ward, Scott City, Kans. Spring for auto-tires. No. 1,336,868; Apr. 13; v. 273; p. 281.

Standley, William E., Pittsburgh, Pa., assignor to Window Glass Rotary Pot Company. Cutting-off device for glass drawing apparatus. No. 1,338,109; Apr. 27; v. 273; p. 660.

Stanley, Carroll M. (See Sweetland, E. J., and Stanley.)

Stanley, Jean J., Port Chester, N. Y. Plant-support. No. 1,337,803; Apr. 20; v. 273; p. 532.

Stanley, Lester A., Washington, D. C. Printing device. No. 1,336,989; Apr. 13; v. 273; p. 304.

Stanley Works, The. (See Parsons, Stuart W., assignor.)

Stansell, Arthur L., Nashville, Tenn. Parcel-binder. No. 1,336,168; Apr. 6; v. 273; p. 88.

Stanson, Ernest J., Antigo, Wis. Vegetable-peeler. No. 1,337,414; Apr. 20; v. 273; p. 459.

Stanton, George B., Farmers Valley, Pa. Process and apparatus for the production of sheet-glass. No. 1,338,261; Apr. 27; v. 273; p. 689.

Staples, Edward C., Canton, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Metallic shelving. No. 1,336,490; Apr. 13; v. 273; p. 208.

Star Device Manufacturing Company. (See Stone, Lloyd B., assignor.)

Stark, Charles H., Chicago, Ill. Weather-strip. No. 1,338,403; Apr. 27; v. 273; p. 715.

Stark, Ottman G. (See Flammang, John, assignor.)

Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Applying rail-bonds. No. 1,336,931; Apr. 13; v. 273; p. 293.

Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,336,932; Apr. 13; v. 273; p. 293.

Starr, John W., Charleston, Wash. Kerosene-burner for ranges. No. 1,336,103; Apr. 6; v. 273; p. 76.

Starring, Alfred A., Kansas City, Mo., assignor to B. Mossman, trustee. Desensitized nitroglycerin explosive. No. 1,336,661; Apr. 13; v. 273; p. 240.

Staso Laminated Slate Company. (See Cooke, Arthur B., assignor.)

Statler, Charles A., Chicago, Ill. Roof. No. 1,338,262; Apr. 27; v. 273; p. 689.

St. Clair, Richard A., Los Angeles, Calif. Incubator. No. 1,338,404; Apr. 27; v. 273; p. 715.

Stebler, Fred. (See Bryan, Edgar J., assignor.)

Steel Products Company, The. (See Chism, Louis W., assignor.)

Steele, Charles B., Philadelphia, Pa. Motor-vehicle. (Reissue.) No. 14,850; Apr. 27; v. 273; p. 764.

Steele, Harney G., Johnstown, Pa. Auxiliary traction-wheel for motor-vehicles. No. 1,337,672; Apr. 20; v. 273; p. 507.

Steere, Albert L., Petersburg, Va. Shaker-operating mechanism. No. 1,336,322; Apr. 6; v. 273; p. 116.

Steese, Rollins C., *et al.*, trustees. (See Warren, William H., assignor.)

Steiger, Andrew W., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,338,467; Apr. 27; v. 273; p. 727.

Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,335,801; Apr. 6; v. 273; p. 18.

Steinschneider, Leo, Brünn, Austria, assignor, by mesne assignments, to The Chemical Foundations, Inc. Preheater for use in the chemical industry, especially for use in the petroleum tar and the like industry. No. 1,337,287; Apr. 20; v. 273; p. 435.

Stenbo, Kristen S., Copenhagen, Denmark. Vertical coffee-mill. No. 1,336,793; Apr. 13; v. 273; p. 266.

Stepanian, Stephen, Columbus, Ohio. Wrench. No. 1,336,794; Apr. 13; v. 273; p. 267.

Stephenson, Axel G., Denver, Colo. Thermostat. No. 1,337,623; Apr. 20; v. 273; p. 498.

Stern, Charles, New York, N. Y. Combination holder and strainer. No. 1,336,491; Apr. 13; v. 273; p. 208.

Stevens & Company. (See McGuckin, John J., assignor.)

Stevens, J., Arms Company. (See Lewis, George S., assignor.)

Stevenson Gear and Manufacturing Company. (See Stevenson, George E., assignor.)

Stevenson, George E., assignor to Stevenson Gear and Manufacturing Company, Indianapolis, Ind. Multiple shaper. No. 1,335,864; Apr. 6; v. 273; p. 30.

Stevenson, John R., Glasgow, Scotland. Stentering or stretching device applicable to heated cylindrical can-drying machines and the like for textile fabrics. No. 1,336,385; Apr. 6; v. 273; p. 129.

Stewart, Claude W., Martinsburg, W. Va. Vacuum-cleaner. No. 1,336,760; Apr. 13; v. 273; p. 260.

Stewart, Edwin F., Hopewell, N. J. Feeder for boiler compounds. No. 1,335,802; Apr. 6; v. 273; p. 19.

Stewart, Thomas W., Kalamazoo, Mich. Game-board. No. 1,336,169; Apr. 6; v. 273; p. 88.

Stewart Warner Speedometer Corporation. (See Genn, John E., assignor.)

Stewart-Warner Speedometer Corporation. (See Hjorth, Oscar B., assignor.)

Stewart-Warner Speedometer Corporation. (See Muzzy, William H., assignor.)

Stibbe, Godfrey, Leicester, England. Circular glove-knitting machine. No. 1,337,099; Apr. 13; v. 273; p. 325.

Stichler, Charles, assignor, to Strause Gas Iron Co., Philadelphia, Pa. Gas-fixture and fuel-hose therefor. No. 1,337,288; Apr. 20; v. 273; p. 435.

Stickney, Charles L., Kingman, Ariz. Belt-tightener. No. 1,338,405; Apr. 27; v. 273; p. 715.

Stocking, Bert A., Boone, Iowa. Demountable rim. No. 1,338,110; Apr. 27; v. 273; p. 660.

Stocking, George, San Francisco, Calif. Hair-clipping device. No. 1,336,662; Apr. 13; v. 273; p. 240.

Stokes, Russell C., Portland, Oreg. Sand-mixing machine. No. 1,337,373; Apr. 20; v. 273; p. 451.

Stokes, Samuel J., Kansas City, Mo. Hoof-trimming machine. No. 1,337,571; Apr. 20; v. 273; p. 488.

Stolle, Georg, Kiel, Germany. Device for changing regenerating-cartridges of breathing apparatus. No. 1,337,026; Apr. 13; v. 273; p. 311.

Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic gearing. No. 1,337,732; Apr. 20; v. 273; p. 519.

Stoltz, Edmund G., Granite City, Ill. Closet flush-valve. No. 1,335,763; Apr. 6; v. 273; p. 11.

Stoltz, William J., St. Louis, Mo. Vehicle-tire. No. 1,338,595; Apr. 27; v. 273; p. 751.

Stolzenwald, Frederick, assignor of one-half to A. Wissel, San Francisco, Calif. Electric socket and lamp-protector. No. 1,336,761; Apr. 13; v. 273; p. 260.

Stone, Cecil, Newark, N. J., assignor to Westinghouse Electric and Manufacturing Company. Jewel-grinding machine. No. 1,338,406; Apr. 27; v. 273; p. 716.

Stone, Charles W., and H. M. Hobart, Schenectady, N. Y., assignors to General Electric Company. Electricity transforming and converting apparatus. No. 1,337,100; Apr. 13; v. 273; p. 325.

Stone, Guy B., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Ignition-controller. No. 1,338,336; Apr. 27; v. 273; p. 703.

Stone, J., & Company. (See Rohman, Harry D., assignor.)

Stone, Lloyd B., Tacoma, assignor to Star Device Manufacturing Company, King county, Wash. Impulse pressure-gage. No. 1,336,104; Apr. 6; v. 273; p. 76.

Stone, Samuel M., Chicago, Ill. Leaf-spring shackle. No. 1,336,446; Apr. 13; v. 273; p. 200.

Stonestreet, Arthur W., Pasadena, Calif. Automatic pneumatic, pneumatic-tire-inflating mechanism. No. 1,338,337; Apr. 27; v. 273; p. 703.

St. Onge, Alexander, assignor of one-half to M. I. Thomson, Sheffield, Mass. Griddle-greaser. No. 1,335,998; Apr. 6; v. 273; p. 56.

Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,336,596; Apr. 13; v. 273; p. 228.

Story, Elliott M., Braintree, Mass. Pneumatic tire. No. 1,336,663; Apr. 13; v. 273; p. 241.

Stout, Elvin M., Nevis, Minn. Coupling. No. 1,336,323; Apr. 6; v. 273; p. 116.

Stovall, Henry R., Tulsa, Okla. Tie-handling tongs. No. 1,337,101; Apr. 13; v. 273; p. 325.

Stover, Charley, Coats, Kans. Sash-hinge. No. 1,335,999; Apr. 6; v. 273; p. 56.

Stover, Willard L., Amarillo, Tex. Wrench. No. 1,337,102; Apr. 13; v. 273; p. 325.

Straith, John, Richmond, Va. Infant-chair. No. 1,337,103; Apr. 13; v. 273; p. 326.

Strand, William F., Des Moines, Iowa. Ignition system for internal-combustion engines. No. 1,336,933; Apr. 13; v. 273; p. 293.

Straus, Alexander L., Baltimore, Md. Producing soft drinks. No. 1,337,027; Apr. 13; v. 273; p. 311.

Straus, Alexander L., assignor to The Baltimore Process Company, Baltimore, Md. Non-alcoholic beverage. No. 1,337,850; Apr. 20; v. 273; p. 541.

Strause Gas Iron Co. (See Stichler, Charles, assignor.)

Strauss, Ferdinand, Inc. (See Irenius, Joseph V., assignor.)

Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Regulating the velocity of fumes passing through electrical precipitators. No. 1,337,488; Apr. 20; v. 273; p. 472.

Strong, William W., Mechanicsburg, Pa., assignor to Research Corporation, New York, N. Y. Regulating the velocity of fumes passing through electrical precipitators. No. 1,337,489; Apr. 20; v. 273; p. 472.

Stroud, John R., Scenery Hill, Pa. Safety device for elevators. No. 1,336,170; Apr. 6; v. 273; p. 88.

Struve, Hamilton H., Cincinnati, Ohio. Spring-leaf spreader. No. 1,338,111; Apr. 27; v. 273; p. 660.

Stuart, Charles J., New Haven, Conn., assignor to L. Candee & Company. Pneumatic shoe-press. No. 1,337,532; Apr. 20; v. 273; p. 481.

Stubbs, Robert L., assignor to The Park Manufacturing Company, Charlotte, N. C. Safety attachment for elevators. No. 1,336,664; Apr. 13; v. 273; p. 241.

Stuebing Truck Company, The. (See Stuebing, William, Jr., assignor.) (Reissne.)

Stuebing, William, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Stuebing Truck Company. Lifting-truck. (Reissue.) No. 14,839; Apr. 13; v. 273; p. 341.

Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing-machine. No. 1,336,543; Apr. 13; v. 273; p. 218.

Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)

Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Clutch-releasing mechanism for automobiles. No. 1,336,000; Apr. 6; v. 273; p. 56.

Submarine Signal Company. (See Wood, Edward C., assignor.)

Suedmeyer, Louis, St. Louis, Mo. Tobacco-pipe. No. 1,336,393; Apr. 6; v. 273; p. 130.

Suffa, George A., Dorchester, Mass. Valve mechanism. No. 1,336,447; Apr. 13; v. 273; p. 200.

Sullivan, Francis J. (See Hopkins, W. G., and Sullivan.)

Sullivan, Frank P., Belvidere, Ill. Gun-cleaner. No. 1,337,104; Apr. 13; v. 273; p. 326.

Sullivan, Patrick J. M., Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y. Internal-combustion engine. No. 1,335,764; Apr. 6; v. 273; p. 12.

Sullivan, Vernon L., El Paso, Tex. Electric-generator attachment for windmills. No. 1,336,544; Apr. 13; v. 273; p. 218.

Sulman, Henry L., and S. Field, assignors to The Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,336,886; Apr. 6; v. 273; p. 129.

Sumitomo Chukosho, Ltd. (See Honda, Kotaro, assignor.)

Summers, John G., San Diego, Calif. Tire. No. 1,337,289; Apr. 20; v. 273; p. 435.

Sumner, Charles M., *et al.* (See Word, John B., assignor.)

Sumner, Henry W., Seattle, Wash. Oil-feed pump for internal-combustion engines. No. 1,338,338; Apr. 27; v. 273; p. 703.

Sumner, William, Liverpool, England. Apparatus for filling explosive material into shells or other receptacles. No. 1,337,490; Apr. 20; v. 273; p. 473.

Super, Frank J., assignor of twenty-four and one-half per cent. to W. H. Blevins and fifty-one per cent. to W. J. Milne, Portland, Oreg. Davit. No. 1,336,394; Apr. 6; v. 273; p. 130.

Sutton, Frank M., San Francisco, Calif. Electric oven. No. 1,336,105; Apr. 6; v. 273; p. 76.

Suzuki, Nihei, San Francisco, Calif. Direction-indicator for vehicles. No. 1,338,112; Apr. 27; v. 273; p. 661.

Svalgel, Joseph, Detroit, Mich. Automobile-signal. No. 1,336,795; Apr. 13; v. 273; p. 267.

Svenska Turbinfabriks Aktiebolaget Ljungström. (See Wiberg, Oscar A., assignor.)

Svenson, Charles W., assignor to American Hardware Corporation, New Britain, Conn. Coaster-brake. No. 1,337,624; Apr. 20; v. 273; p. 498.

Swallow, Walter, Rock Island, Ill. Electric sign. No. 1,338,198; Apr. 27; v. 273; p. 677.

Swank, Clifford A., Denver, Colo. Word-displaying signaling device for automobile-cars. No. 1,338,047; Apr. 27; v. 273; p. 648.

Swanson, Oscar S., Jamestown, N. Y. Lamp-socket construction. No. 1,336,395; Apr. 6; v. 273; p. 130.

Swanson, Swan A., Kellettville, Pa. Railway-rail fastening. No. 1,337,851; Apr. 20; v. 273; p. 541.

Sweetland, Ernest J., Montclair, and C. M. Stanley, Newark, N. J., assignor to United Filters Corporation, Brooklyn, N. Y. Filter-casing. No. 1,337,733; Apr. 20; v. 273; p. 519.

Swenson, Alfred C., assignor to The Cable Company, Chicago, Ill. Air-pump. No. 1,336,396; Apr. 6; v. 273; p. 131.

Swenson, Martin, Chicago, Ill. Calculator. No. 1,336,990; Apr. 13; v. 273; p. 304.

Swerer, Millard F., Jamestown, Calif. Receptacle for pneumatic-tire tubes. No. 1,337,178; Apr. 13; v. 273; p. 340.

Swift, George W., Jr., Bordentown, N. J. Mechanism for making open-face envelops. No. 1,337,734; Apr. 20; v. 273; p. 519.

Swift, George W., Jr., Bordentown, N. J. Making open-face envelops. No. 1,337,735; Apr. 20; v. 273; p. 520.

Swinnerton, Bertram B., Beaver, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Ware-support for ceramic firing. No. 1,336,762; Apr. 13; v. 273; p. 260.

Sykes, Wilfred. (See Lamme, B. G., and Sykes.)

Szuba, Stanislaw, Elizabeth, N. J. Soap-holder. No. 1,337,852; Apr. 20; v. 273; p. 541.

Taber, George H., Binghamton, N. Y. Spark-gap controlling device. No. 1,337,853; Apr. 20; v. 273; p. 542.

Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)

Taglialne, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)

Talbert, Charles R., Detroit, Mich. Window-locking device. No. 1,338,339; Apr. 27; v. 273; p. 704.

Talmage, John G., Cleveland, Ohio. Method of and apparatus for distributing lubricating-oil under steam-pressure. No. 1,337,179; Apr. 13; v. 273; p. 340.

Tamburello, Benedetto, New York, N. Y. Fastening means for demountable rims. No. 1,336,934; Apr. 13; v. 273; p. 294.

Tamietti, Peter V., Monrovia, Calif. Signal for vehicles. No. 1,336,106; Apr. 6; v. 273; p. 76.

Tarbox, John P., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Convertible multiplane. No. 1,336,406; Apr. 6; v. 273; p. 132.

Tarr, Frank J. (See McCoy, H. E., and Tarr.)

Tarras, Harry M., assignor of one-half to R. J. Gaskin, Toronto, Ontario, Canada. Refrigerator. No. 1,337,625; Apr. 20; v. 273; p. 498.

Tassie, Edward, South Hackney, London, England. Shutter for cinematograph-machines and the like. No. 1,338,596; Apr. 27; v. 273; p. 751.

Tate, William R. (See Greenwood, H. C., and Tate.)

Tattu, Radu, Brooklyn, N. Y. Corner-joint for bedsteads and the like. No. 1,337,626; Apr. 20; v. 273; p. 498.

Tattu, Radu, Brooklyn, N. Y. Corner for bedsteads. No. 1,337,627; Apr. 20; v. 273; p. 499.

Taylor, Asa J., Jr., assignor of one-half to H. M. Thompson, Chicago, Ill. Electric gear-shifter. No. 1,336,796; Apr. 13; v. 273; p. 267.

Taylor, Eugene H., deceased, Hyde Park, Mass.; George A. Taylor, administrator. Machine for making insoles. No. 1,337,290; Apr. 20; v. 273; p. 435.

Taylor, George A., administrator. (See Taylor, Eugene H.)

Taylor, Howard, Philadelphia, Pa. Automobile-bumper. No. 1,338,597; Apr. 27; v. 273; p. 751.

Taylor, Samuel T. (See Hardt, B. F., and Taylor.)

Taylor, William E., East Orange, N. J., assignor to American Can Company. Hermetically-sealed receptacle. No. 1,337,491; Apr. 20; v. 273; p. 473.

Teagle Company, The. (See Whitcomb, Fred J., assignor.)

Teal, Arthur E., Walker township, Kent county, Mich. Phonograph. No. 1,336,492; Apr. 13; v. 273; p. 208.

Teller, John D., Henderson, Tex. Shock-absorber and axle-reinforcement. No. 1,337,291; Apr. 20; v. 273; p. 435.

Templeton, Edwin G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,338,407; Apr. 27; v. 273; p. 716.

Templeton, William B., Long Lake, Wash., assignor to General Electric Company. Electric switch. No. 1,337,105; Apr. 13; v. 273; p. 326.

Terrell, Alfred. (See Friel, Patrick H., assignor.)

Terrell, Kendel J., Hushpuckena, Miss. Entrance and exit car for trains. No. 1,337,492; Apr. 20; v. 273; p. 473.

Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Leather-skiving machine. No. 1,336,597; Apr. 13; v. 273; p. 228.

Theimer, Max. (See Thum, G. E., and Theimer.)

Thermokept Products Corporation. (See McColl, F. P., and Willison, assignors.)

Thieme, Otto, and F. O. Mueller, assignors to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Pressure-roller for typewriting-machines, &c. No. 1,336,797; Apr. 13; v. 273; p. 267.

Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,336,985; Apr. 13; v. 273; p. 303.

Thomas, Arthur R., Minneapolis, Minn. Automobile-muff. No. 1,336,763; Apr. 13; v. 273; p. 260.

Thomas, Charles W., Glenloch, Pa. Making abrasive structures. No. 1,338,598; Apr. 27; v. 273; p. 751.

Thomas, Edward W., Luton, England. Self-propelled agricultural implement. No. 1,336,057; Apr. 6; v. 273; p. 67.

Thomas, George. (See Lachman, P., and Thomas.)

Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator. No. 1,337,415; Apr. 20; v. 273; p. 459

Thomas, William G., West Pittston, Pa. Automobile-signal. No. 1,337,572; Apr. 20; v. 273; p. 488.

Thompson, Harry M. (See Taylor, Asa J., Jr., assignor.)

Thompson, Louis W. (See Murphy, E. J., and Thompson.)

Thompson, Louis W., Schenectday, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,854; Apr. 20; v. 273; p. 542.

Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,337,855; Apr. 20; v. 273; p. 542.

Thompson, Mary I. (See St. Onge, Alexander, assignor.)

Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Making nitric acid. No. 1,337,106; Apr. 13; v. 273; p. 326.

Thomson, John E., Glen Ridge, N. J. Rear-axle differential for power-driven vehicles. No. 1,336,107; Apr. 6; v. 273; p. 76.

Thomson, William E., assignor of one-half to A. C. Baldwin, Jacksonville, Ill. Scraper for clothes-brushes. No. 1,337,856; Apr. 20; v. 273; p. 542.

Thomson, William L., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,336,764; Apr. 13; v. 273; p. 260.

Thordarson, Chester H., Chicago, Ill. Transformer-mounting. No. 1,335,803; Apr. 6; v. 273; p. 19.

Thorn & Hoddle Acetylene Company. (See Hoddle, Charles, assignor.)

Thornburgh Manufacturing Company, The. (See Babcock, H. C., and McCreary, assignors.)

Thorne Brothers. (See Anderson, Carl O., assignor.)

Thorne, Robert H., and F. J. Miller, assignors to Darling Valve and Manufacturing Company, Williamsport, Pa. Indicator valve-post. No. 1,338,263; Apr. 27; v. 273; p. 689.

Thornhill, Edwin B., Ottawa, Ontario, Canada, assignor to The General Engineering Company, Inc., Salt Lake City, Utah. Flotation process. No. 1,338,264; Apr. 27; v. 273; p. 689.

Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,338,408; Apr. 27; v. 273; p. 716.

Thorpe, Samuel T., assignor to The Horton Manufacturing Company, Bristol, Conn. Fishline-reel. No. 1,337,857; Apr. 20; v. 273; p. 543.

Three Leaf Cot Manufacturing Company. (See Clough, Alfred N., assignor.)

Throop, Charles E., Buffalo, N. Y. Sheet-moving mechanism. No. 1,336,598; Apr. 13; v. 273; p. 229.

Thropp, Joseph W., Trenton, N. J. Thrust-bearing. No. 1,337,028; Apr. 13; v. 273; p. 311.

Thum, George E., and M. Theimer, Elizabeth, N. J. Telephones-booth controller. No. 1,337,858; Apr. 20; v. 273; p. 543.

Tibbetts, Fred O., Henry, Ill. Flytrap. No. 1,338,113; Apr. 27; v. 273; p. 661.

Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Making gears. No. 1,336,493; Apr. 13; v. 273; p. 208.

Tideman, Sven, Columbus, Ohio. Chronometer-escapement. No. 1,336,263; Apr. 6; v. 273; p. 106.

Tilton, Edgar C. (See Frisbie, J. M., and Tilton.)

Timmons, Edward J., St. Louis, Mo. Light attachment for fishing-tackle. No. 1,337,292; Apr. 20; v. 273; p. 436.

Timosci, Antonio T., San Jose, Calif. Kettle. No. 1,336,869; Apr. 13; v. 273; p. 281.

Tipton, Clint B., Tiptonville, Tenn. Cotton-picker's sack. No. 1,337,859; Apr. 20; v. 273; p. 543.

Todenwarth, Walter W., Roselle, assignor of one-half to C. E. Pryor, Jersey City, N. J. Hydrocarbon-burner. No. 1,336,798; Apr. 13; v. 273; p. 267.

Tofft, Cecilia A., Mount Ida, Ark. Lawn-mower. No. 1,338,199; Apr. 27; v. 273; p. 677.

Toles, Justin K., San Francisco, Calif. Safety-razor. No. 1,337,166; Apr. 13; v. 273; p. 337.

Tollbom, Bernhard T., Samuels, Idaho. Autosled. No. 1,336,448; Apr. 13; v. 273; p. 200.

Tollerton, William J., Chicago, Ill. Hub-liner for journal-boxes. No. 1,338,340; Apr. 27; v. 273; p. 704.

Topheim Oil Tank and Pump Company. (See Eilers, Frank, assignor.)

Torris Wold & Company. (See Cameron, William, assignor.)

Toups, Wilson, assignor of one-half to H. R. Minvielle, Jeanerette, La. Device for setting the shafts of saw-grinding machines. No. 1,337,293; Apr. 20; v. 273; p. 436.

Townsend, Copeland, New York, N. Y. Combined rotary pump and motor. No. 1,338,265; Apr. 27; v. 273; p. 689.

Townsend, John R., South Bend, Ind. Electric switch. No. 1,337,628; Apr. 20; v. 273; p. 499.

Townsley, Frederick A., Jersey City, N. J., assignor of one-half to T. Watts, Middletown, N. Y. Life-saving device for aeroplanes. No. 1,337,336; Apr. 20; v. 273; p. 444.

Towson, Morris S., and C. E. Cochran, Cleveland, Ohio. Industrial truck. No. 1,337,804; Apr. 20; v. 273; p. 532.

Trabert, Hermann, Brooklyn, N. Y. Walking doll. No. 1,335,864; Apr. 6; v. 273; p. 19.

Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Means for forming oil-cakes. No. 1,336,171; Apr. 6; v. 273; p. 88.

Trach, Joseph, Buchanan, Saskatchewan, Canada. Washhanger. No. 1,338,266; Apr. 27; v. 273; p. 690.

Tracy, Hayden H., San Francisco, Calif. Steam-separator. No. 1,336,870; Apr. 13; v. 273; p. 281.

Tranchant, Frank A. (See Long, Levett A., assignor.)

Tranmer, Fred, assignor of one-half to W. A. Hills, Gordon, Nebr. Ankle-brace and arch-support. No. 1,336,001; Apr. 6; v. 273; p. 56.

Traupmann, Raymond J., assignor to Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Automobile-bumper. No. 1,338,048; Apr. 27; v. 273; p. 649.

Traupmann, Raymond J., assignor to Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Timer. No. 1,338,049; Apr. 27; v. 273; p. 649.

Travis, Don C., and F. Kusterle, assignors to Simmons Company, Kenosha, Wis. Bed-bottom hanger. No. 1,336,397; Apr. 6; v. 273; p. 131.

Travis, Homer H., Columbus, Ohio. Headlight. No. 1,338,599; Apr. 27; v. 273; p. 751.

Traylor Engineering & Mfg. Co., The. (See Bernhard, Richard, assignor.)

Tree, James N., Detroit, Minn. Bolster extension. No. 1,337,416; Apr. 20; v. 273; p. 459.

Trego, Abner V., Mount Washington, Mo. Collapsible box. No. 1,337,167; Apr. 13; v. 273; p. 337.

Trew, James S., assignor of one-half to H. C. Burke, Santa Ana, Calif. Ball-receptacle for pocket-billiard tables. No. 1,335,924; Apr. 6; v. 273; p. 41.

Tripp, Charles A., Wilmington, Del., assignor to Holcomb and Hoke M'f'g Co., Indianapolis, Ind. Cooling means for liquid-dispensing devices. No. 1,336,172; Apr. 6; v. 273; p. 89.

Trolle, Louis, assignor to American Metal Shoe Company, Racine, Wis. Footwear. No. 1,337,983; Apr. 20; v. 273; p. 567.

Tropenas Company. (See Muntz, G. M., and Roubieu, assignors.)

Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Metal-working feeding mechanism. No. 1,336,108; Apr. 6; v. 273; p. 77.

Trotta, Dominic A., New York, N. Y. Propulsion means. No. 1,338,115; Apr. 27; v. 273; p. 661.

Troutman, Frank E., Butler, Pa. Furnace-charging apparatus. No. 1,336,494; Apr. 13; v. 273; p. 208.

Troy Carriage Sunshade Company, The. (See Dillingham, Frederick A., assignor.)

Troy Laundry Machinery Co. (See Hoting, Hans C., assignor.)

Trudeau, Maximillian O. (See Ross, E. T., and Trudeau.)

Trueb, Rudolph O., Murray Hill Park, N. J. Implement for threading embroidery-beads. No. 1,335,805; Apr. 6; v. 273; p. 19.

Trueb, Rudolph O., Murray Hill Park, N. J. Embroidery-frame. No. 1,335,806; Apr. 6; v. 273; p. 19.

Trull, Lyman A., assignor of one-half to O. Heath, Brockton, Mass. Clamp for use in trimming boot and shoe heels. No. 1,336,002; Apr. 6; v. 273; p. 57.

Trullinger, Charles H., San Francisco, Calif. Combination eye-cup and container. No. 1,336,109; Apr. 6; v. 273; p. 77.

Trumble, Milon J., Alhambra, Calif. Power-generator. No. 1,337,533; Apr. 20; v. 273; p. 481.

Trumpour, Frederick J., Washington, D. C., assignor to N. D. Baker, Secretary of War. Attaching member for axle and caster housings for trucks. No. 1,338,657; Apr. 27; v. 273; p. 762.

Trunk, Rudolf, Pforzheim, assignor to the Firm of Fr. Kammerer, Pforzheim, Baden, Germany. Wire for making chains and other articles of jewelry. No. 1,336,449; Apr. 13; v. 273; p. 200.

Tsanoff, Stoyan V., Newark, N. J. Mold for bricks and blocks. No. 1,338,468; Apr. 27; v. 273; p. 727.

Tschunke, Reinhold, Breslau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing salts of the N-methyl hexa-menthenetetramin. No. 1,336,709; Apr. 13; v. 273; p. 250.

Tsekuras, George, Philadelphia, Pa. Cooking device. No. 1,336,599; Apr. 13; v. 273; p. 229.

Tsuchiyama, Naosaku, *et al.* (See Kojima, Edward M., assignor.)

Tucker & Bonner. (See Tucker, Philip J., assignor.)

Tucker, Frank W., Lynn, assignor to Francis A. Shea, Boston, Mass. Machine for stretching hides. No. 1,338,050; Apr. 27; v. 273; p. 649.

Tucker, Philip J., assignor to Tucker & Bonner, Hartford, Conn. Radiator. No. 1,337,337; Apr. 20; v. 273; p. 444.

Tucker, Stanley. (See Edser, E., and Tucker.)

Tunnel Machine Manufacturing & Engineering Company. (See Sheen, Milton R., assignor.)

Turcan, John, South Akron, Ohio. Torpedo discharge for submarines. No. 1,336,110; Apr. 6; v. 273; p. 77.

Türck, Eugen, Langerfield, near Barmen, Germany, assignor, by mesne assignments, to the American Fabrics Company, Bridgeport, Conn. Lace with gauze-like ground made on single-thread machines. No. 1,337,294; Apr. 20; v. 273; p. 436.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-truck mechanism. No. 1,336,387; Apr. 6; v. 273; p. 129.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-support for chain-track tractors. No. 1,336,871; Apr. 13; v. 273; p. 281.

Turner, Charles, Irlam, England. Destructive distillation. No. 1,336,264; Apr. 6; v. 273; p. 106.

Turner, Charles H., Worcester, Mass., assignor to Osgood Bradley Car Company. Cart-seat. No. 1,337,295; Apr. 20; v. 273; p. 436.

Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Antispinning device. No. 1,336,265; Apr. 6; v. 273; p. 106.

Turner, Richard G., Malden, Mass. Loom. No. 1,336,545; Apr. 13; v. 273; p. 219.

Turney, Lee L., Evansville, Ind. Internal-combustion engine. No. 1,337,417; Apr. 20; v. 273; p. 459.

Turvene, John C., Dayton, Ohio. Ventilator. No. 1,337,296; Apr. 20; v. 273; p. 436.

Tiltsch, Conrad. Winterthur, Switzerland. Bleaching-boiler plant. No. 1,335,925; Apr. 6; v. 273; p. 42.

Tutt, R. N. (See Barnett, John B., assignor.)

Tuttle, Alpheus A., New Britain, Conn. Shop-box. No. 1,338,051; Apr. 27; v. 273; p. 649.

Tuttle, Henry W., Des Plaines, Ill. Filtering-machine. No. 1,336,660; Apr. 13; v. 273; p. 229.

Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Reel construction and handling webs. No. 1,337,418; Apr. 20; v. 273; p. 459.

Twigg, John F., San Francisco, Calif. Life-raft. No. 1,336,872; Apr. 13; v. 273; p. 281.

Twiss, Douglas F., assignor to The Dunlop Rubber Company, Limited, Birmingham, England. Reclaiming rubber. No. 1,335,926; Apr. 6; v. 273; p. 42.

Tymus, Steve O., Winnipeg, Manitoba, Canada. Shoe-closing device. No. 1,338,341; Apr. 27; v. 273; p. 704.

U. S. Compression Inner Tube Company. (See Voorhees, John J., Jr., assignor.)

U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)

Udy, Marvin J., assignor to Haynes Stellite Company, Kokomo, Ind. Recovering cobalt. No. 1,336,765; Apr. 13; v. 273; p. 261.

Uglow, Lenoard V., Benton, Iowa. Chain-tightener device. No. 1,337,534; Apr. 20; v. 273; p. 482.

Uhr, Nils W. (See Wigellus, S. G., and Uhr.)

Uhr, Nils W., Gottenborg, and J. H. Sandberg, Stockholm, Sweden. Firing device for submarine mines, torpedoes, or the like. No. 1,336,873; Apr. 13; v. 273; p. 282.

Ullman, Louis, New York, N. Y. Egg-beater. No. 1,337,860; Apr. 20; v. 273; p. 543.

Ulrich, Rudolf, Newburgh, N. Y. Expansion-joint. No. 1,336,111; Apr. 6; v. 273; p. 77.

Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,297; Apr. 20; v. 273; p. 437.

Underhill, Walter A., and C. C. Avery, assignors to The Eagle Wagon Works, Auburn, N. Y. Wagon-train. No. 1,336,665; Apr. 23; v. 273; p. 241.

Underwood, Alfred T., High Point, N. C. Spinning-brake. No. 1,338,600; Apr. 27; v. 273; p. 751.

Underwood Computing Machine Company. (See Gumprecht, William L., assignor.)

Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)

Underwood Computing Machine Company. (See Steiger, Andrew W., assignor.)

Underwood, Lois M., Dayton, Ohio. Furnace gas-producer. No. 1,337,298; Apr. 20; v. 273; p. 437.

Underwood Typewriter Company. (See Dobson, William A., assignor.)

Union Electric Mfg. Co. (See Campbell, Harry E., assignor.)

Union Metal Manufacturing Company, The. (See Drumm, Herbert C., assignor.)

United Drug Company. (See Purple, Harry J., assignor.)

United Filters Corporation. (See Salisbury, Orange J.)

United Filters Corporation. (See Sweetland, E. J., and Stanley, assignors.)

United Shoe Machinery Corporation. (See Akerley, Fred R., assignor.)

United Shoe Machinery Corporation. (See Ashton, Orvell, assignor.)

United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)

United Shoe Machinery Corporation. (See Bastable, Edward H., assignor.)

United Shoe Machinery Corporation. (See Clifford, William P., assignor.)

United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)

United Shoe Machinery Corporation. (See Haahr, Anton A., assignor.)

United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)

United Shoe Machinery Corporation. (See Horgan, Patrick J., assignor.)

United Shoe Machinery Corporation. (See Wentworth, Jesse S., assignor.)

United States Ferro-Alloys Corporation. (See Petinot, Napoleon, assignor.)

United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)

United States Glass Company. (See Haley, Reuben, assignor.)

United States of America, The. (See Sponsler, O. L., Dunlap, and Henning, assignors.)

United States Ordnance Company. (See Dawson, A. T., and Buckham, assignors.)

United-Xpedite Finishing Company. (See Julian, Gideon J., assignor.)

Universal Elevated Railway Co. (See McClure, R. A., and Boulton, assignors.)

Universal Milking Machine Company, The. (See Eklundh, J. G. G., Oden, and Schmitt, assignors.)

Universal Planer Company. (See Forward, Frank L., assignor.)

Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Dirigible balloon. No. 1,336,601; Apr. 13; v. 273; p. 229.

Urbanek, Joseph, Chicago, Ill. Frame-actuating device. No. 1,338,267; Apr. 27; v. 273; p. 690.

Urchniak, Rudolph. (See Hilger, A. J., and Urchniak.)

Urschel, William E., Valparaiso, Ind. Apparatus for snipping string-beans. No. 1,336,991; Apr. 13; v. 273; p. 304.

Uttmark, Fritz E., New York, N. Y. Ship's-position-plotting chart. No. 1,337,168; Apr. 13; v. 273; p. 237.

V. & N. Lantern Co., The. (See Vinton, Frederick W., assignor.)

Vail, Nathan R., and W. B. Coberly, Los Angeles, Calif. Apparatus for packing food products. No. 1,337,374; Apr. 20; v. 273; p. 451.

Van Alystyn, Albert T. (See Sacks, Herman, assignor.)

Van Amstel, Tudor, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,736; Apr. 20; v. 273; p. 520.

Van Demark, Chester A., Kingston, N. Y. Mattress-holder. No. 1,336,003; Apr. 6; v. 273; p. 57.

Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Producing currents of desired wave form. No. 1,337,737; Apr. 20; v. 273; p. 520.

Van Derver, Clarence A. (See Lang, E. C., and Van Derveer.)

Van Heyst, Floris A. (See Schoute, C., Van Heyst and Meyer.)

Van Nest, Lin A., La Junta, Colo. Roof-framing tool. No. 1,337,107; Apr. 13; v. 273; p. 326.

Van Patten, Louis C., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,338,200; Apr. 27; v. 273; p. 677.

Van Patten, Louis C., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,338,201; Apr. 27; v. 273; p. 677.

Van Santen, Harm H., Delft, Netherlands. Means employed in card-accounting systems. No. 1,336,992; Apr. 13; v. 273; p. 304.

Vapor Car Heating Company. (See Russell, Edward A., assignor.)

Varney, Albert I., New Hampton, N. H. Chain-lock. No. 1,337,419; Apr. 20; v. 273; p. 459.

Vasey, William G., Lakeside, Oreg. Butt-hook. No. 1,336,666; Apr. 13; v. 273; p. 241.

Vaughan, Jay W., Chicago, Ill. Combined work-table and gage. No. 1,336,799; Apr. 13; v. 273; p. 268.

Ventilator Fan Co., The. (See Kohn, Milton M., assignor.)

Verdier, Captain P. (See Cutler, William F., assignor.)

Verdier, Jules. (See Weiss, Paul, assignor.)

Viard, Eugène L., Bar-sur-Seine, and F. A. Bouillit, Levallois-Perret, France. Elastic suspension of cycles. No. 1,335,765; Apr. 6; v. 273; p. 12.

Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)

Vickers Limited. (See McKechnie, James, assignor.)

Vickers, William H., and C. E. Hancock, Liberal, Kans. Automatic weighing-machine. No. 1,338,538; Apr. 27; v. 273; p. 740.

Victor Adding Machine Company, The. (See Johantgen, Oliver D., assignor.)

Victoria, Henry J., Hull, Iowa. Building-stake. No. 1,336,004; Apr. 6; v. 273; p. 57.

Viertel, Edward, Berlin-Treptow, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Plant for manufacturing lampblack. No. 1,338,268; Apr. 27; v. 273; p. 690.

Vincent, Edward H., Detroit, Mich. Locking steering-wheel. No. 1,335,865; Apr. 6; v. 273; p. 30.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Machining hydrocarbon-motors. No. 1,336,800; Apr. 13; v. 273; p. 268.

Vinton, Frederick W., Weehawken, N. J., assignor to The V. & N. Lantern Co., Inc. Lantern. No. 1,336,112; Apr. 6; v. 273; p. 77.

Vogel, Eugene W., Oak Park, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Annunciator. No. 1,337,299; Apr. 20; v. 273; p. 437.

Voight, Henry G., New Haven, Conn. Door-holder. No. 1,338,052; Apr. 27; v. 273; p. 649.

Voight, Henry G., New Haven, Conn. Lock mechanism. No. 1,338,053; Apr. 27; v. 273; p. 649.

Volk, Magnus, Brighton, England. Apparatus for transferring bedsteads and occupants from place to place. No. 1,337,861; Apr. 20; v. 273; p. 543.

Vollmer, Walter E., Sandusky, Ohio. Dust-cap for valve-stems. No. 1,338,054; Apr. 27; v. 273; p. 650.

Volz, Alexander F., Jr., St. Louis, Mo. Method and apparatus for forming monolithic structures. No. 1,337,493; Apr. 20; v. 273; p. 473.

Volz, Frederick W., Washington, D. C. Spring-leaf spreader. No. 1,338,539; Apr. 27; v. 273; p. 740.

Von Engeln, Harry F., Ludell, Kans. Wheat-stacker. No. 1,336,005; Apr. 6; v. 273; p. 57.

Von Porat, Karl H. V., Stocksund, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Feeding device for pulverous fuel in furnaces for locomotives and the like. No. 1,337,738; Apr. 20; v. 273; p. 520.

Voorhees, John J., Jr., Jersey City, N. J., assignor, by mesne assignments, to U. S. Compression Inner Tube Company, Tulsa, Okla. Inner tube for pneumatic tires. No. 1,336,173; Apr. 6; v. 273; p. 89.

Vorhauer, George F., New Brighton, Pa., assignor to W. D. Craft, Newark, N. J. Flexible file. No. 1,335,866; Apr. 6; v. 273; p. 30.

Vulcan Soot Cleaner Company. (See Dornbrook, Fred L., assignor.)

Waage, Sivert P., and R. Warren, Minneapolis, Minn. Thermally-actuated drain-valve. No. 1,338,469; Apr. 27; v. 273; p. 728.

Wachenberg, Lewis, New York, N. Y. Filter. No. 1,337,170; Apr. 13; v. 273; p. 338.

Wachtel, William W., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Confection-box. No. 1,336,874; Apr. 13; v. 273; p. 282.

Wade, Henry C., Bayonne, N. J., assignor, by mesne assignments, to Wadol Corporation. Apparatus for decomposing hydrocarbon-oils and water. No. 1,336,450; Apr. 13; v. 273; p. 200.

Wade, James T., Brady, Tex. Rail-fastener. No. 1,337,862; Apr. 20; v. 273; p. 544.

Wadley, Calvin P., Buffalo, N. Y. Water-heater. No. 1,338,055; Apr. 27; v. 273; p. 650.

Wadol Corporation. (See Wade, Henry C., assignor.)

Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary boring-drill. No. 1,338,601; Apr. 27; v. 273; p. 752.
Waern, James D., South Melbourne, Victoria, Australia. Metal building unit. No. 1,336,324; Apr. 6; v. 273; p. 117.
Wagenhorst, James H., Akron, Ohio. Battery-jar-forming machine. No. 1,338,470; Apr. 27; v. 273; p. 728.
Waggoner, Jacob E., assignor to Halftime Cooker Company, Chicago, Ill. Pressure-cooker. No. 1,337,981; Apr. 20; v. 273; p. 567.
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Wahl, Frank S., North Tonawanda, N. Y. Internal-combustion engine. No. 1,338,056; Apr. 27; v. 273; p. 650.
Wake, Charles E., Walla Walla, Wash. Spark-plug holder. No. 1,338,540; Apr. 27; v. 273; p. 740.
Wakefield, Ralph A., Sacramento, Calif. Self-propelled vehicle. No. 1,336,935; Apr. 13; v. 273; p. 294.
Walbach, William F. (See Carrau, Edward, assignor.)
Waldref, Grant. (See Anderson, Albert S., assignor.)
Waldrip, Julia E., *et al.* (See Paln, William, assignor.)
Wales Adding Machine Company. (See Briechle, Ambrosius, assignor.)
Wales Adding Machine Company. (See Pentecost, A., and Fisher, assignors.)
Walke, Ferdinand G., San Francisco, Calif. Internal-combustion engine. No. 1,335,947; Apr. 6; v. 273; p. 46.
Walker, George W., Far Rockaway, N. Y. Mechanical toy horse. No. 1,337,300; Apr. 20; v. 273; p. 437.
Walker, William, Langside, Glasgow, assignor to John MacDonald & Son Limited, Maryhill, Glasgow, Scotland. Support for pneumatic tools. No. 1,335,807; Apr. 6; v. 273; p. 20.
Wall, Arthur W., Sheldon, near Birmingham, England. Crank or crank-shaft of internal-combustion engines. No. 1,336,546; Apr. 13; v. 273; p. 219.
Wall, Edward J., Syracuse, N. Y., assignor to Kalmus Comstock & Wescott, Incorporated, Boston, Mass. Dye recovery. No. 1,337,673; Apr. 20; v. 273; p. 507.
Wallace, Duncan M. (See Guthrie, William, assignor.)
Wallace, John, Helensburgh, Scotland, and T. R. Lees, Shirehampton, England. Steam-valve. No. 1,336,451; Apr. 13; v. 273; p. 200.
Wallace, Robert W., Montesano, Wash. Mowing-machine attachment. No. 1,337,863; Apr. 20; v. 273; p. 544.
Wallace, William W. (See Fryer, J. A., and Wallace.)
Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Steam-turbine. No. 1,338,409; Apr. 27; v. 273; p. 716.
Walling, Clyde E., Frankfort, Ind. Vehicle-wheel. No. 1,338,471; Apr. 27; v. 273; p. 728.
Wallis, James T., Altoona, Pa. Lubricator. No. 1,337,494; Apr. 20; v. 273; p. 473.
Walter, John M., Calumet, Mich. Permutation-padlock. No. 1,337,674; Apr. 20; v. 273; p. 508.
Waltke, Wm., & Co. (See Jones, Robert F., assignor.)
Waltke, Wm., & Company. (See Heeter, Thomas E., assignor.)
Walton, Charles S., Philadelphia, Pa. Drum tightening-ear. No. 1,335,867; Apr. 6; v. 273; p. 30.
Walz, Carl F. (See Sandt, A. R., Walz, and Stahl.)
Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Multiphase slow-sine-wave producer. No. 1,338,269; Apr. 27; v. 273; p. 690.
Warburton, Frank G., Manchester, England. Controlling means for electric motors. No. 1,337,573; Apr. 20; v. 273; p. 488.
Ward, Benjamin M., and H. G. Smith, Fayetteville, N. C. Fire-basket. No. 1,336,766; Apr. 13; v. 273; p. 261.
Ward, Orin W., New York, N. Y. Block toy building. No. 1,337,171; Apr. 13; v. 273; p. 338.
Ward, Weseley. (See Standley, Melvin H., assignor.)
Warner, Earnest A., Beach, N. D. Spark-plug. No. 1,337,169; Apr. 13; v. 273; p. 338.
Warren, Clyde W., Sauk Rapids, Minn. Porch-shade. No. 1,336,325; Apr. 6; v. 273; p. 117.
Warren Featherbone Company, The. (See Rothfuchs, Louis, assignor.)
Warren, Robert. (See Waage, S. P., and Warren.)
Warren, William H., Youngstown, Ohio, assignor to The Realty Trust Company and R. C. Steese, trustees. Metal-casting apparatus. No. 1,336,767; Apr. 13; v. 273; p. 261.
Warren, William H., assignor to The Realty Trust Company and R. C. Steese, trustees, Youngstown, Ohio. Metal-casting. No. 1,336,768; Apr. 13; v. 273; p. 261.
Washino, Chachi, Nagoya, Japan. Steam-trap. No. 1,338,541; Apr. 27; v. 273; p. 741.
Wassell, Clifford R., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill. Electrical connector. No. 1,336,801; Apr. 13; v. 273; p. 268.
Wasser, Joseph C., Caseyville, Ill. Paper-holder. No. 1,338,057; Apr. 27; v. 273; p. 650.
Watkins, William F., assignor of one-half to H. B. Perene, Seattle, Wash. Rapid-fire gun. No. 1,337,971; Apr. 20; v. 273; p. 565.
Watrous, Earl G., Chicago, Ill. Lavatory. No. 1,335,946; Apr. 6; v. 273; p. 45.
Watson, William H. (See Bell, W. T., Watson, and Jones.)
Watts, Thomas. (See Townsley, Frederick A., assignor.)
Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Belly-dinning head for fish-cleaning machines. No. 1,337,375; Apr. 20; v. 273; p. 452.
Waukesha Motor Co. (See Horning, Harry L., assignor.)
Way, A. F., Company. (See Loring, W. C., and Jacobson, assignors.)
Way, John H., Philadelphia, Pa. Concealed or invisible butt-hinge. No. 1,336,174; Apr. 6; v. 273; p. 89.
Weagant, Roy A., New York, N. Y., assignor to Radio Corporation of America. Radiosignaling apparatus. No. 1,336,398; Apr. 6; v. 273; p. 131.
Weary, John, assignor of one-half to W. W. Littlehales, Mount Carmel, Pa. Car-coupling. No. 1,335,868; Apr. 6; v. 273; p. 31.
Weatherly, Sidney M., and H. J. Stach; said Stach assignor to National Machine Company, Hartford, Conn. Roller adjustment for printing-presses. No. 1,337,574; Apr. 20; v. 273; p. 488.
Weathersby, Fred R., Houston, Tex. Drill. No. 1,336,006; Apr. 6; v. 273; p. 57.
Weaver, Paul S., Lebanon, Pa. Shock-absorber. No. 1,338,270; Apr. 27; v. 273; p. 690.
Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster.)
Webb, Frank A., Protection, Kans. Carbid controlling and dumping valve for acetylene-gas generators. No. 1,337,805; Apr. 20; v. 273; p. 532.
Webb, George S., Jr., Sidney, assignor to Julius Kayser & Co., New York, N. Y. Glove-pointing gage. No. 1,337,972; Apr. 20; v. 273; p. 565.
Webb, Thomas H., and C. J. Rhodes, Wakefield, England. Clamping device for shearing-machines. No. 1,337,675; Apr. 20; v. 273; p. 508.
Webber, Gardner M., Stoneham, Mass. Tent. No. 1,338,058; Apr. 27; v. 273; p. 650.
Webster & Perks Tool Company, The. (See Mitchell, Raymond C., assignor.)
Weckbaugh, Joseph V., New York, N. Y. Accounting and recording apparatus. No. 1,337,575; Apr. 20; v. 273; p. 489.
Weeks, Elling O., Detroit, Mich. Radiator. No. 1,337,576; Apr. 20; v. 273; p. 489.
Weeks, Frank E., assignor to A. Ringman, Chicago, Ill. Goggles. No. 1,337,420; Apr. 20; v. 273; p. 459.
Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-bearing. No. 1,335,766; Apr. 6; v. 273; p. 12.
Weir Frog Company. (See Madison, Mart J., assignor.)
Welsenborn, George P. A., Kansas City, Mo. Churn. No. 1,337,864; Apr. 20; v. 273; p. 544.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Production of mats of fibrous material. No. 1,336,402; Apr. 6; v. 273; p. 132.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite insulating material. No. 1,336,403; Apr. 6; v. 273; p. 132.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite insulating material. No. 1,336,404; Apr. 6; v. 273; p. 132.
Weiss, Paul, Paris, and J. Verdier, Enghien, France. Process and apparatus for the production of intense artificial clouds, fogs, or mists. No. 1,338,343; Apr. 27; v. 273; p. 704.
Welthaus, John J., North Vernon, Ind. Liquid-hydrocarbon-vapor producer. No. 1,337,108; Apr. 13; v. 273; p. 327.
Weltzel, Paul R., Philadelphia, Pa. Means for indicating level of plastic material in containers. No. 1,337,029; Apr. 13; v. 273; p. 312.
Weitzel, Paul R., Philadelphia, Pa. Means for indicating level of plastic material in containers. No. 1,337,030; Apr. 12; v. 272; p. 312.
Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Recovery of metals from their ores. No. 1,338,271; Apr. 27; v. 273; p. 691.
Welhoefer, John T. (See Peters, E. A., and Welhoefer.)
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining oil. No. 1,335,767; Apr. 6; v. 273; p. 12.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Process of and apparatus for refining liquid hydrocarbons. No. 1,335,768; Apr. 6; v. 273; p. 12.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. System for cracking mineral oil. No. 1,335,769; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for cracking hydrocarbons. No. 1,335,771; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining oil. No. 1,335,772; Apr. 6; v. 273; p. 13.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for refining mineral oils. No. 1,335,773; Apr. 6; v. 273; p. 14.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Liquid-heating furnace. No. 1,335,774; Apr. 6; v. 273; p. 14.
Wellman, Frank E., and F. H. Sibley, assignors to The Kansas City Gasoline Company, Kansas City, Kans. System for treating hydrocarbon oils. No. 1,335,770; Apr. 6; v. 273; p. 13.
Wellman, Seth A., Mason City, Iowa. Ventilating means. No. 1,335,948; Apr. 6; v. 273; p. 46.

Wells, Albert A., Detroit, Mich. Inclosed non-arcing refillable fuse. No. 1,337,806; Apr. 20; v. 273; p. 533.
Wells, Otto. (See Maxim, Hosea F., assignor.)
Wells, Walter W., assignor of one-half to J. C. L. Krebs, Clyde, Ohio. Variable-speed-governor control. No. 1,337,865; Apr. 20; v. 273; p. 544.
Welshausen, William, Allenhurst, N. J. Device for supplying water to automobile-radiators. No. 1,336,769; Apr. 13; v. 273; p. 261.
Wentworth, Jesse S., Decatur, Ill., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Assembling-machine. No. 1,336,875; Apr. 13; v. 273; p. 282.
Wermager, Henry C., Emerson, N. D. Attachment for plows. No. 1,337,421; Apr. 20; v. 273; p. 460.
Wernimont, Henry G., Washington, D. C. Coupling or snap. No. 1,337,577; Apr. 20; v. 273; p. 489.
Wertz, Thomas, and F. W. Springmeyer; said Wertz assignor of one-sixth to E. H. Maune and one-sixth to J. Crinnion, St. Louis, Mo. Window-sash stop. No. 1,337,495; Apr. 20; v. 273; p. 474.
Westberg, Elise, Trondhjem, assignor to H. Norloff, Drammen, Norway. Key. No. 1,338,542; Apr. 27; v. 273; p. 741.
Western Electric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company. (See Carroll, Louis W., assignor.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Crawford, Walter G., assignor.)
Western Electric Company. (See Dodge, William L., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Hall, John A., assignor.)
Western Electric Company. (See Harrison, William H., assignor.)
Western Electric Company. (See Keckler, Charles W., assignor.)
Western Electric Company. (See Kendall, James B., assignor.)
Western Electric Company. (See Lundell, Albin E., assignor.)
Western Electric Company. (See McMurry, Fred R., assignor.)
Western Electric Company. (See McQuarrie, James L., assignor.)
Western Electric Company. (See Mason, Summer R., assignor.)
Western Electric Company. (See Powell, Winfred T., assignor.)
Western Electric Company. (See Reeves, Frank N., assignor.)
Western Electric Company. (See Reynolds, J. N., and Hearn, assignors.)
Western Electric Company. (See Reynolds, John N., assignor.)
Western Electric Company. (See Scheuch, William A., assignor.)
Western Electric Company. (See Sperry, Arthur B., assignor.)
Western Electric Company. (See Stoller, Hugh M., assignor.)
Western Electric Company. (See Stull, John S., assignor.)
Western Electric Company. (See Ulrich, Horace W., assignor.)
Western Electric Company. (See Van Amstel, Tudor, assignor.)
Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
Western Electric Company. (See Wilbur, R. S., and Harrison, assignors.)
Western Electric Company. (See Wilbur, Ray S., assignor.)
Western Electric Company. (See Williams, S. B., Jr., and Albert, assignors.)
Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
Western Electric Company. (See Wotton, James A., assignor.)
Western Steel Auto-Wheel Company. (See Williams, John W., assignor.)
Western Vulcanizer Manufacturing Company. (See Maier, Fred, assignor.)
Western Wheeled Scraper Company. (See Moats, Ortus E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baker, Ralph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Mylins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, F., and Kinney, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hall, Arthur J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
Westinghouse Electric and Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lamme, B. G., and Sykes, assignors.)
Westinghouse Electric and Manufacturing Company. (See Mardis, Paul L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Moard, Ferdinand G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Poole, Arthur F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Stone, Cecil, assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
Westinghouse Lamp Company. (See Eisler, Charles, assignor.)
Weston, Alonzo H., and R. H. Peters, Buffalo, N. Y., assignors to J. P. Northey and G. Grant, Toronto, Ontario, Canada. Clamp. No. 1,336,667; Apr. 13; v. 273; p. 241.
Wetmore, Charles P., assignor to Durant Manufacturing Company, Milwaukee, Wis. Counter. No. 1,336,113; Apr. 6; v. 273; p. 78.
Whalley, Robert D., Providence, R. I. Vulcanizing-press detector. No. 1,337,172; Apr. 13; v. 273; p. 338.
Wheal, Walter, Worcester, assignor to Heenan & Froude Limited, Manchester, England. Match-making machine. No. 1,337,109; Apr. 13; v. 273; p. 327.
Wheeler, Laura A., Minneapolis, Minn. Dress-marker. No. 1,338,602; Apr. 27; v. 273; p. 752.
Wheelock, Herbert K., Long Beach, Calif. Tire. No. 1,336,452; Apr. 13; v. 273; p. 201.
Whelpley, Eli D., and W. E. Winters, Oneida, N. Y. Electric plug. No. 1,337,422; Apr. 20; v. 273; p. 460
Wherry, John A., New Orleans, La. Collating device for typewriters and adding-machines. No. 1,336,453; Apr. 13; v. 273; p. 201.
Wherry, John A., New Orleans, La. Collating device for typewriters and adding-machines. No. 1,336,454; Apr. 13; v. 273; p. 201.
Whitaker, Frank P., *et al.*, executors. (See Whitaker, Frederick B.)
Whitaker, Frederick B., deceased; F. P. Whitaker, executor, and E. G. Griffiths, formerly Whitaker, executrix, Rugby, England. System for protecting electric cables. No. 1,337,866; Apr. 20; v. 273; p. 544.
Whitaker, Harold P., Peoria, Ill. Bed-lamp. No. 1,337,867; Apr. 20; v. 273; p. 545.
Whitcomb, Fred J., assignor to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,337,739; Apr. 20; v. 273; p. 520.
White, Arthur O., Greensburg, Ind. Plow. No. 1,337,868; Apr. 20; v. 273; p. 545.
White, Clifford L., Stockdale, Ohio. Electric switch. No. 1,336,455; Apr. 13; v. 273; p. 201.
White, David G., Boston, Mass. Reversible toothbrush. No. 1,337,173; Apr. 13; v. 273; p. 339.
White, Frank O. (See Gervig, Philip M., assignor.)
White, Henry W., and A. T. Sheldon, Moline, Ill. Anti-skid device. No. 1,336,175; Apr. 6; v. 273; p. 89.
White, Percy, assignor to L. Morse & Sons, Athol, Mass. Corner-brace for tables, &c. No. 1,338,202; Apr. 27; v. 273; p. 677.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Traction-frame construction for track-laying tractors. No. 1,338,059; Apr. 27; v. 273; p. 651.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,338,060; Apr. 27; v. 273; p. 651.
White, Thomas, Talmage, Ky. Coupling. No. 1,336,326; Apr. 6; v. 273; p. 117.
Whited, Samuel J. B., Shreveport, La. Dust and lint collecting system. No. 1,336,607; Apr. 6; v. 273; p. 57.
Whitehurst, John L., assignor, by mesne assignments, to J. T. Whitehurst, Baltimore, Md. Labeling-machine. No. 1,338,603; Apr. 27; v. 273; p. 752.
Whitehurst, John T. (See Whitehurst, John L., assignor.)
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming a forged fulcrum. No. 1,335,808; Apr. 6; v. 273; p. 20.
Whitney, Raymond K., Manhattan, Kans. Coaster. No. 1,336,456; Apr. 13; v. 273; p. 201.
Whitney, William M. (See Emery, Raymond D., assignor.)
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,336,008; Apr. 6; v. 273; p. 58.
Whyte, Edward S., Lowell, Mass. Combined spoon and fork. No. 1,337,174; Apr. 13; v. 273; p. 339.
Whyte, Frederick M., Tarrytown, N. Y. Metal roof for cars. No. 1,336,993; Apr. 13; v. 273; p. 304.

Wiberg, Oscar A., assignor to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Steam or gas turbine plant. No. 1,335,775; Apr. 6; v. 273; p. 14.

Wiberg, Oscar A., and G. Karlsson, assignors to Svenska Turbinfabriks Aktiebolaget Ljungström, Finspong, Sweden. Gearing for steam or gas turbines. No. 1,337,376; Apr. 20; v. 273; p. 452.

Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-link. No. 1,336,876; Apr. 13; v. 273; p. 282.

Wiederwax, Robert W., assignor of one-half to C. Geist, Atlantic City, N. J. Preheater. No. 1,338,472; Apr. 27; v. 273; p. 728.

Wierth, Harold C., Brooklyn, N. Y. Baking-pan. No. 1,338,344; Apr. 27; v. 273; p. 705.

Wigelius, Sven G., and N. W. Uhr, Gottenborg, Sweden. Internal-combustion engine of compound type. No. 1,336,668; Apr. 13; v. 273; p. 242.

Wigginton, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Binder device. No. 1,338,658; Apr. 27; v. 273; p. 762.

Wightman, Charles K., Alton, Ill., assignor to Beall Brothers. Sectional bolt. No. 1,337,807; Apr. 20; v. 275; p. 533.

Wilngaard, Aage G. P., Copenhagen, Denmark. Savings-clock. No. 1,338,543; Apr. 27; v. 273; p. 741.

Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,301; Apr. 20; v. 273; p. 437.

Wilbur, Ray S., Lyndhurst, N. J., and W. H. Harrison, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,337,676; Apr. 20; v. 273; p. 508.

Wilcken, Adolph C. (See Piper, Clarence W., assignor.)

Wilcox, Albinus. (See Wilcox, Charles F., assignor.)

Wilcox, Charles F., New York, assignor of forty-nine one-hundredths to A. Wilcox, Kings county, N. Y. Flying-machine. No. 1,336,669; Apr. 13; v. 273; p. 242.

Wilczynski, Jósef, assigner of one-half to M. Dominski, Detroit, Mich. Railway-switch. No. 1,336,114; Apr. 6; v. 273; p. 78.

Wilkinson, Albert R. J., Twickenham, England. Work-holding device. No. 1,337,677; Apr. 20; v. 273; p. 508.

Wilkinson, George L., *et al.* (See Hien, Phillip, assignor.)

Willeford, Charles, Mount Pleasant, Iowa. Hen's nest. No. 1,336,802; Apr. 13; v. 273; p. 268.

Williams, Claud S. (See Jones, William E., assignor.)

Williams, George W., Morris, Ill. Straw-spreader. No. 1,338,544; Apr. 27; v. 273; p. 741.

Williams, Homer D., Pittsburgh, and W. Ahlen, Duquesne, Pa. Metal-heating furnace. No. 1,336,266; Apr. 6; v. 273; p. 106.

Williams, James H., Leverett, Mass. Wrench. No. 1,337,678; Apr. 20; v. 273; p. 508.

Williams, John W., Santa Rosa, Calif., assignor to Western Steel Auto-Wheel Company, Reno, Nev. Wheel. No. 1,337,869; Apr. 20; v. 273; p. 545.

Williams, Mowry S., assignor of one-half to J. R. Clancy, Syracuse, N. Y. Spark-plug. No. 1,337,679; Apr. 20; v. 273; p. 508.

Williams, Ormsby P., Trout Lake, Wash. Vertical cutter-bar attachment for harvesters. No. 1,336,267; Apr. 6; v. 273; p. 106.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,337,681; Apr. 20; v. 273; p. 509.

Williams, Samuel B., Jr., Brooklyn, and W. P. Albert, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Time-measuring system. No. 1,337,680; Apr. 20; v. 273; p. 509.

Williams, Samuel B., Jr., Brooklyn, N. Y., and C. F. Baldwin, deceased; F. D. Baldwin, administratrix, Montclair, N. J. Telephone-exchange system. No. 1,337,740; Apr. 20; v. 273; p. 521.

Williams, Sidney, *et al.* (See Parker, Harry J., assignor.)

Williams, William E., Chicago, Ill. Wire wheel. No. 1,338,410; Apr. 27; v. 273; p. 716.

Williams, William E., Chicago, Ill. Metal fastener. No. 1,338,411; Apr. 27; v. 273; p. 717.

Willison, Walter W. (See McColl, F. P., and Willison.)

Willson, Thomas C., Philadelphia, Pa. Method of and apparatus for identifying pictures. No. 1,337,423; Apr. 20; v. 273; p. 460.

Willys, John W. (See Hagemeyer, Henry F., assignor.)

Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)

Wilmer, William H., Washington, D. C. Eye-shield. No. 1,336,009; Apr. 6; v. 273; p. 58.

Wilmot, Benjamin A., Chicago, Ill. Road-indicator. No. 1,336,268; Apr. 6; v. 273; p. 106.

Wilson, Charles D., assignor to M. M. Wilson, Syracuse, N. Y. Removable oven. No. 1,336,058; Apr. 6; v. 273; p. 67.

Wilson, Edward F., Webster Groves, Mo. Card index and display device. No. 1,336,115; Apr. 6; v. 273; p. 78.

Wilson, Elihu C. and W. W., Los Angeles, Calif., assignors to said W. W. Wilson. Underreamer. No. 1,338,345; Apr. 27; v. 273; p. 704.

Wilson, Marguerite M. (See Wilson, Charles D., assignor.)

Wilson, Robert E., Washington, D. C., and C. P. McNeil, Astoria, N. Y. Soda-lime composition and preparing same. No. 1,335,949; Apr. 6; v. 273; p. 46.

Wilson, Rosetta M., Claremore, Okla. Hairpin. No. 1,337,377; Apr. 20; v. 273; p. 452.

Wilson, Stanford, Davis, Calif. Draft-gear for gang-plows. No. 1,337,870; Apr. 20; v. 273; p. 545.

Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)

Wilson, William W. (See Wilson, Elihu C. and W. W.)

Wilzin, Arthur. (See Rolraut, Emil, assignor.)

Wilzin, Arthur, St. Ouen, France. Glass shaping or blowing machine. No. 1,338,604; Apr. 27; v. 273; p. 752.

Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,336,116; Apr. 6; v. 273; p. 78.

Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Detachable light for vehicle-curtains. No. 1,337,302; Apr. 20; v. 273; p. 438.

Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)

Winchester Repeating Arms Co. (See Hemming, Otto L., assignor.)

Winchester, William I., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif. Fruit-grader. No. 1,336,059; Apr. 6; v. 273; p. 67.

Window Glass Rotary Pot Company. (See Standley, William E., assignor.)

Wingate, Walter, Victoria, British Columbia, Canada. Bearing-finder. No. 1,336,010; Apr. 6; v. 273; p. 58.

Wingett, John N., assignor to W. A. Haggott, trustee, Denver, Colo. Treating coal. No. 1,337,496; Apr. 20; v. 273; p. 474.

Winks, John O., *et al.* (See Klenke, August C., assignor.)

Winnek, Frederick G., Fairbury, Nebr. Combined tricycle and rocking-horse. No. 1,338,545; Apr. 27; v. 273; p. 741.

Winskas, Mikolus, Easthampton, Mass. Fishing-rod. No. 1,337,378; Apr. 20; v. 273; p. 452.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,336,602; Apr. 13; v. 273; p. 229.

Winter, Anna K., New York, N. Y. Safe-door trap. (Reissue.) No. 14,840; Apr. 13; v. 273; p. 341.

Winter, John R., Lansing, assignor to Kelsey Wheel Company, Detroit, Mich. Wheel-hub and forming same. No. 1,337,808; Apr. 20; v. 273; p. 533.

Winter, Julius. (See de Lukacsevics, Charles, assignor.)

Winters, David L., Edgewater, Md. Method of and means for supplying internal-combustion engines with fuel. No. 1,337,338; Apr. 20; v. 273; p. 445.

Winters, William E. (See Whelpley, E. D., and Winters.)

Winton, Alexander, Lakewood, Ohio. Protecting means for vessels. No. 1,337,809; Apr. 20; v. 273; p. 533.

Wirkkala, Oscar A., Kent, Wash. Logging system. No. 1,336,877; Apr. 13; v. 273; p. 282.

Wirth, Philipp, New York, N. Y. Filling-faucet. No. 1,338,602; Apr. 27; v. 273; p. 763.

Wise, Louis E. (See Adams, E. Q., and Wise.)

Wise, Louis E., New York, N. Y., and E. Q. Adams, Berkeley, Calif. Making photographic sensitizing dyes of the isocyanin type. No. 1,338,346; Apr. 27; v. 273; p. 705.

Wisner, C. N., Cotton Picker Co. (See Wisner, Clark N., assignor.)

Wisner, Clark N., assignor to C. N. Wisner Cotton Picker Co., Incorporated, New Orleans, La. Cotton-picker head. No. 1,336,176; Apr. 6; v. 273; p. 89.

Wissel, August. (See Stolzenwald, Frederick, assignor.)

Withers, Joseph, and H. G. O'Brien, Warren, Ohio. Roll-driving connection. No. 1,336,177; Apr. 6; v. 273; p. 90.

Witten, William A., Duncan, Okla. Resilient wheel. No. 1,338,061; Apr. 27; v. 273; p. 651.

Wittmaack, Christian L. H., Zehlendorf, near Berlin, Germany. Arrangement for driving ships' propellers. No. 1,336,770; Apr. 13; v. 273; p. 261.

Wittmann, Jokshan F., St. Louis, Mo. Air-cooler for engines. No. 1,336,457; Apr. 13; v. 273; p. 201.

Witty, George, New York, N. Y. Cement. No. 1,336,178; Apr. 6; v. 273; p. 90.

Wlodkowski, Wladyslaw, Lynn, Mass. Driving mechanism for brushing and polishing apparatus. No. 1,336,117; Apr. 6; v. 273; p. 78.

Woerner, Eugen, assignor to the Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Common cam-driving device for actuating the pistons of a plurality of pumps. No. 1,336,803; Apr. 13; v. 273; p. 268.

Wohler, Emil R., Chicago, Ill. Binder. No. 1,336,495; Apr. 13; v. 273; p. 208.

Wolf, Fred W., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Process of and apparatus for refrigerating. No. 1,337,175; Apr. 13; v. 273; p. 339.

Wolf, John, Topeka, Kans. Latch-lock. No. 1,336,496; Apr. 13; v. 273; p. 208.

Wolfaardt, Pieter H., Jeppestown, Johannesburg, South Africa. Signal for motor-vehicles. No. 1,338,114; Apr. 27; v. 273; p. 661.

Wolfe, Charles A., Suedberg, Pa. Wire-rope clamp. No. 1,338,062; Apr. 27; v. 273; p. 651.

Wolfe, Everett K., Westchester, N. Y. Soap-holder. No. 1,337,535; Apr. 20; v. 273; p. 482.

Wolfe, Everett K., Westchester, N. Y. Bottle-protector. No. 1,338,063; Apr. 27; v. 273; p. 651.

Wolfe, Garnett H., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary rod-weeder. No. 1,338,203; Apr. 27; v. 273; p. 678.

Wolfe, Henry K., assignor to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Weeder and cultivator. No. 1,338,204; Apr. 27; v. 273; p. 678.

Wolff, Franklin J., Trenton, N. J. Method of and means for producing saggars and the like. No. 1,337,871; Apr. 20; v. 273; p. 545.

Wolff, Herbert W., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Interlocking spring-plank. No. 1,336,458; Apr. 13; v. 273; p. 202.

Wolters, Carl F. (See Dick, R. H., and Wolters.)

Wood, A. J., Grand Rapids, Mich. Grease-gun attachment. No. 1,337,629; Apr. 20; v. 273; p. 499.

Wood, Alfred B., Chicago, Ill. Anti-freeze device for fluid-pressure systems. No. 1,336,984; Apr. 13; v. 273; p. 303.

Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Portland, Me. Receiver-mounting for submarine-signals. No. 1,336,497; Apr. 13; v. 273; p. 209.

Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Cracker-can. No. 1,337,630; Apr. 20; v. 273; p. 499.

Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Adjustable bearer for printing-couples. No. 1,338,347; Apr. 27; v. 273; p. 705.

Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)

Wood, William W., Tacoma, Wash. Barrel. No. 1,336,011; Apr. 6; v. 273; p. 58.

Woodman, Richard N., Chicago, Ill., assignor to Dick Safety Corporation. Table-bed. No. 1,337,497; Apr. 20; v. 273; p. 474.

Woods, James A., Wichita, Kans. Handhole-plate. No. 1,336,012; Apr. 6; v. 273; p. 58.

Woods, Joseph M., assignor to D. O'Leary, Chicago, Ill. Resilient wheel. No. 1,336,060; Apr. 6; v. 273; p. 67.

Woodward, Robert C., Williamsport, Pa. Ingot-mold and molding. No. 1,336,459; Apr. 13; v. 273; p. 202.

Woodward, William W., Mount Rainier, Md. Wrench. No. 1,336,460; Apr. 13; v. 273; p. 202.

Woolson, Charles H., Syracuse, N. Y. Oiler for drill-presses. No. 1,337,682; Apr. 20; v. 273; p. 509.

Woolwine Metal Products Company. (See Frey, Sigmund, assignor.)

Worcester Metal Goods Company. (See Miller, Charles A., assignor.)

Word, John B., Latrobe, assignor of one-third to W. A. Reckers and one-third to C. M. Sumner, Placerville, Calif. Nut-lock. No. 1,337,424; Apr. 20; v. 273; p. 460.

Worthington, Henry R. (See Berrigan, John J., assignor.)

Worthington, Warren, New York, N. Y. Scythe. No. 1,338,272; Apr. 27; v. 273; p. 691.

Wotten, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated. Telephone-receiver. No. 1,337,741; Apr. 20; v. 273; p. 521.

Wright, Bessie B. (See Wright, William S., assignor.)

Wright, Charles S., Hyde Park, Mass., assignor to Crompton & Knowles Loom Works, Weft-carrier-releasing device. No. 1,337,683; Apr. 20; v. 273; p. 509.

Wright, Charles W., Washington, D. C. Concentrating-table. No. 1,336,327; Apr. 6; v. 273; p. 117.

Wright, Fred A., Wilmington, N. C. Framework for reinforcing and shaping concrete structures. No. 1,336,547; Apr. 13; v. 273; p. 219.

Wright, George S. (See Clenny, J. E., and Wright.)

Wright, Ray, Jackson, Miss. Roof for buildings. No. 1,336,118; Apr. 6; v. 273; p. 79.

Wright, William S., Newark, Ohio, assignor to B. B. Wright, Annapolis, Md. Railway-car seat. No. 1,335,950; Apr. 6; v. 273; p. 46.

Wrigley, Herbert, and H. Spence, assignors to Peter Spence & Sons Limited, Manchester, Lancaster, England. Preparation of titanium compounds. No. 1,338,473; Apr. 27; v. 273; p. 728.

Wróblewski, Czesław, Glenlyon, Pa. Lock. No. 1,338,605; Apr. 27; v. 273; p. 752.

Wrona, Fred J., Hamtramck, Mich. Curtain-pole and shade-roller holder. No. 1,336,936; Apr. 13; v. 273; p. 294.

Wuepper, John. (See Erbel, A., and Wuepper.)

Wuesthoff, Maximilian W., San Francisco, Calif., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Drinking-fountain bowl. No. 1,338,474; Apr. 27; v. 273; p. 728.

Wullenweber, Ernest A., Detroit, Mich., assignor to Morgan & Wright. Method and apparatus for treating rubber. No. 1,337,536; Apr. 20; v. 273; p. 482.

Xardell, Charles A., Utica, N. Y. Primary battery. No. 1,338,412; Apr. 27; v. 273; p. 717.

Yackel, Carl, Syracuse, N. Y. Lifting instrument. No. 1,336,461; Apr. 13; v. 273; p. 202.

Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)

Yarrow, Harold E., Glasgow, Scotland. Water-cooled valve for closing the funnels of submarine vessels. No. 1,337,110; Apr. 13; v. 273; p. 327.

Yenovkian, Sarkis S., Troy, N. Y. Label-pasting machine. No. 1,337,684; Apr. 20; v. 273; p. 510.

Youmans, George P., Galesburg, assignor to Kalamazoo Tank & Silo Company, Kalamazoo, Mich. Wall-structure. No. 1,336,179; Apr. 6; v. 273; p. 90.

Young, Cyrus H., assignor to The Robinson-Roders Co., Inc., Newark, N. J. Jacket-type life-preserver. No. 1,336,400; Apr. 6; v. 273; p. 131.

Young, Gus B., Des Moines, Iowa. Sterilizer attachment for hypodermic syringes. No. 1,336,061; Apr. 6; v. 273; p. 67.

Young, William H., Denver, Colo. Infant-seat. No. 1,335,776; Apr. 6; v. 273; p. 14.

Young, William M., Victoria, British Columbia, Canada. Glass-washer. No. 1,337,303; Apr. 20; v. 273; p. 438.

Youngberg, Chester W., San Francisco, Calif. Die. No. 1,336,388; Apr. 6; v. 273; p. 129.

Zadorozny, Wasyl, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Pipe-wrench. No. 1,336,710; Apr. 13; v. 273; p. 251.

Za Haris, Michael J., assignor of one-half to G. A. Darnell, Minneapolis, Minn. Game. No. 1,338,475; Apr. 27; v. 273; p. 729.

Zahnow, Frank C., assignor of one-half to L. H. Gleason, Springfield, Mo. Combined collision-buffer and direction-indicator for vehicles. No. 1,337,872; Apr. 20; v. 273; p. 546.

Zaleski, Frank, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,348; Apr. 27; v. 273; p. 705.

Zaleski, Frank, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,476; Apr. 27; v. 273; p. 729.

Zaleski, Frank, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,338,477; Apr. 27; v. 273; p. 729.

Zawada, Alex, Rembrandt, Manitoba, Canada. Drop-hammer. No. 1,337,379; Apr. 20; v. 273; p. 452.

Zawistowski, Martin, Brooklyn, N. Y. Cloth-cutting machine. No. 1,338,478; Apr. 27; v. 273; p. 729.

Zebell, William, Odell, Ill. Float-operated circuit-breaker. No. 1,336,269; Apr. 6; v. 273; p. 107.

Zeidler, Paul F. (See Hunt, H., and Schaab, assignors.)

Zelaya, José S., New York, N. Y. Corn and callous remover. No. 1,335,777; Apr. 6; v. 273; p. 14.

Zelkowski, John, Whitkow, Saskatchewan, Canada. Boiler. No. 1,337,810; Apr. 20; v. 273; p. 533.

Zeman, Wenzel, Schenectady, N. Y. Power-transmission apparatus. No. 1,337,873; Apr. 20; v. 273; p. 546.

Ziegler, Crawford, Barberton, Ohio. Tire wrapping and unwrapping apparatus. No. 1,336,328; Apr. 6; v. 273; p. 118.

Ziegler, Crawford, Barberton, Ohio. Tire wrapping and unwrapping apparatus. No. 1,336,329; Apr. 6; v. 273; p. 118.

Zimmerman, Fred H. (See Glebel, J., and Zimmerman.)

Zimmerman, John, Brooklyn, N. Y. Record-index envelop. No. 1,336,270; Apr. 6; v. 273; p. 107.

Zimmermann, Hans, assignor to Schutte and Koerting Company, Philadelphia, Pa. Heat-transfer apparatus. No. 1,338,479; Apr. 27; v. 273; p. 729.

Zuckerman, Samuel G., New York, N. Y. Inscription-printing attachment for cameras. No. 1,336,330; Apr. 6; v. 273; p. 118.

Zumwalt, Alva E., Caney, Kans. Propeller-gearing for flying-machines. No. 1,338,116; Apr. 27; v. 273; p. 662.

Zwebell, Arthur R., Milwaukee, Wis. Vulcanizer. No. 1,337,631; Apr. 20; v. 273; p. 499.

Zygiel, Tony. (See Zadorozny, Wasyl, assignor.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Casing for a vacuum-insulated jar. No. 54,884; Apr. 20; v. 273; p. 569.
American Automatic Products Corporation. (See Mangless, William A., assignor.)
American Bosch Magneto Corporation. (See Bartsch, Alfred H., assignor.)
American Hardware Corporation. (See Stone, Elmer B., assignor.)
American Newsvender Corporation. (See Hotaling, Omar J., assignor.)
Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp-front frame. No. 54,823; Apr. 13; v. 273; p. 341.
Arden Manufacturing Corporation. (See Bennett, Clarence W., assignor.)
Ashley, Frank M., Brooklyn, N. Y. Inkstand. No. 54,824; Apr. 13; v. 273; p. 341.
Associated Silver Company. (See Lasher, Thomas B., assignor.)
Baier, Frank R., assignor to O. M. Burton: Chicago, Ill. Toy car. Nos. 55,009–12; Apr. 27; v. 273; p. 770.
Barber, William J. (See Kerr, H. E., and Barber.)
Barnes, John, Valders, Wis. Combination-tool. No. 54,825; Apr. 13; v. 273; p. 342.
Bartlett, Louis T., Wellesley Hills, Mass. Roll, matrix, die, or similar article. No. 54,826; Apr. 13; v. 273; p. 342.
Bartsch, Alfred H., assignor to American Bosch Magneto Corporation, Springfield, Mass. Armature of a magneto-electric machine. No. 54,827; Apr. 13; v. 273; p. 342.
Behn, Guido G., assignor to Essex Motors, Detroit, Mich. Radiator-casing for automobiles. No. 54,828; Apr. 13; v. 273; p. 342.
Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
Bennett, Clarence W., assignor to Arden Manufacturing Corporation, New York, N. Y. Toy aeroplane. No. 54,885; Apr. 20; v. 273; p. 569.
Best, William N., Brooklyn, N. Y. Button, badge, watch-charm, or locket. No. 54,978; Apr. 27; v. 273; p. 764.
Blackmarr, Frank H., Chicago, Ill. Cigarette-case. No. 54,979; Apr. 27; v. 273; p. 764.
Blanck & Co. (See Davis, Elizabeth A., assignor.)
Blanck & Company. (See Kallman, William K., assignor.)
Blanck & Company. (See Meyer, Felix, assignor.)
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Substation telephone-support. No. 54,886; Apr. 20; v. 273; p. 569.
Booth, Earl C., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Sterilizing-cabinet. No. 54,829; Apr. 13; v. 273; p. 342.
Booth, Robert, assignor to Rex Motor Car Manufacturing Company, New Orleans, La. Automobile. No. 54,830; Apr. 13; v. 273; p. 342.
Boyd, Fred C., assignor to The Faraday Co., New Haven, Conn. Electric heater. No. 54,887; Apr. 20; v. 273; p. 570.
Brockman, Furn O., Rosedale, Kans. Doll figure. No. 54,888; Apr. 20; v. 273; p. 570.
Brown, Edmund N., San Francisco, Calif. Electric heater. Nos. 54,889–90; Apr. 20; v. 273; p. 570.
Brulé, Norbert, St. Barthélemi, Quebec, Canada. Dustpan. No. 54,891; Apr. 20; v. 273; p. 570.
Bruns, Alfred E. (See Humphrey, Clen S., assignor.)
Brunswick-Balke-Collender Company, The. (See Zork, David, assignor.)
Burlew, Gilderoy O., Newark, N. J. Tooth cleaning and polishing device. No. 54,980; Apr. 27; v. 273; p. 764.
Burton, Oliver M. (See Baier, Frank R., assignor.)
Campbell, Donald, assignor to Lyon & Healy, Chicago, Ill. Harp. Nos. 54,892–3; Apr. 20; v. 273; p. 570.
Campbell, James A., Chicago, Ill. Eyebrow-brush. No. 54,815; Apr. 6; v. 273; p. 135.
Campbell, Peter F., Vinal Haven, Me. Tobacco-pipe. No. 54,831; Apr. 13; v. 273; p. 343.
Carlson, Gustave O., Wethersfield, Conn. Nail set. No. 54,894; Apr. 20; v. 273; p. 571.
Chamberlin, Frederick G., Faith, Norfolk, England. High boot. No. 54,895; Apr. 20; v. 273; p. 571.
Chamberlin, Frederick G., Faith, Norfolk, England. Legging. No. 54,896; Apr. 20; v. 273; p. 571.
Chance, Roy L. (See Harris, R. E., and Chance.)
Charest, Ludger, Auburn, Me. Moccasin. No. 54,897; Apr. 20; v. 273; p. 571.
Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. Nos. 54,898–9; Apr. 20; v. 273; p. 572.
Clark, Thomas E., Detroit, Mich. Combined electric fan and lamp. No. 54,832; Apr. 13; v. 273; p. 343.
Cleveland Gas Burner & Appliance Co. (See Kerr, H. E., and Barber, assignors.)
Cleveland Gas Burner & Appliance Co. (See Kerr, Harry E., assignor.)

Clodfelter, Howard T., Bruno, Minn. Toilet-powder and jewelry container. No. 54,833; Apr. 13; v. 273; p. 343.
Colomb, Charles F., West Hoboken, N. J., assignor to Wittnauer Co., New York, N. Y. Bridge-plate for watch-movements. No. 54,981; Apr. 27; v. 273; p. 764.
Corning Glass Works. (See Churchill, William, assignor.)
Corns, Frank V. (See Talbot, C. L., and Corns.)
Davis, Elizabeth A., assignor to Blanck & Co., Inc., New York, N. Y. Lace. No. 54,816; Apr. 6; v. 273; p. 135.
Davis, Meyer, Chicago, Ill. Phonograph-cabinet. No. 54,982; Apr. 27; v. 273; p. 765.
Dayton, Charles H., Iowa City, Iowa. Bottle or jug. No. 54,834; Apr. 13; v. 273; p. 343.
De Ford, Nancy H. H., *et al.* (See Malone, Leon S., assignor.)
Demuth, Alfred M., Chicago, Ill. Steam-distributer and baster for cooking apparatus. No. 54,835; Apr. 13; v. 273; p. 343.
Dodge, Frank W., New Haven, Conn. Bathing cap or similar article. No. 54,901; Apr. 20; v. 273; p. 572.
Dodge, Frank W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Bathing-cap or similar article. No. 54,900; Apr. 20; v. 273; p. 572.
Duane, Harry B., Brookline, assignor to The Touraine Company, Boston, Mass. Wrapping-band or article of similar nature. No. 54,836; Apr. 13; v. 273; p. 343.
Dunbar, Irwin, and F. Norris, Kirkville, Mo. Toy. No. 54,902; Apr. 20; v. 273; p. 572.
Eddy, Robert C., Milwaukee, Wis. Rubber ball. No. 54,903; Apr. 20; v. 273; p. 572.
Ellson, Oliver, Wayne, Nebr. Phonograph-cabinet. No. 54,904; Apr. 20; v. 273; p. 572.
Ericson, Emile, Yonkers, assignor to Witcombe, McGeachin & Co., New York, N. Y. Article of manufacture. No. 54,905; Apr. 20; v. 273; p. 573.
Essex Motors. (See Behn, Guido G., assignor.)
Faraday Co., The. (See Boyd, Fred C., assignor.)
Fauser, Gustave M., assignor to Witcombe, McGeachin & Co., New York, N. Y. Article of manufacture. No. 54,906; Apr. 20; v. 273; p. 573.
Finney, Elizabeth H., *et al.* (See Malone, Leon S., assignor.)
Firth, Clarence, Indianapolis, Ind. China tableware article. No. 54,907; Apr. 20; v. 273; p. 573.
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 54,837–9; Apr. 13; v. 273; p. 344.
Free, William C., Rockford, Ill. Sewing-machine cabinet. No. 54,840; Apr. 13; v. 273; p. 344.
Gatchell, Frederick D., assignor to The Texas Company, New York, N. Y. Oil-can. No. 54,983; Apr. 27; v. 273; p. 765.
Gillette, Maurice, New York, N. Y. Store-front. No. 54,908; Apr. 20; v. 273; p. 573.
Gonsky, Peter R., Chicago, Ill. Combination phonograph and lamp-standard. No. 54,984; Apr. 27; v. 273; p. 765.
Gordon, Milton J., Weehawken, N. J. Embroidered art panel, banner, or flag. Nos. 54,909–10; Apr. 20; v. 273; p. 573.
Grearson, Frederick A., assignor to Grearson & Lane Company, Barre, Vt. Monument. No. 54,911; Apr. 20; v. 273; p. 574.
Grearson & Lane Company. (See Grearson, Frederick A., assignor.)
Greely Square Hotel Company. (See Hermelin, Astrid, assignor.)
Grote, Walther H., assignor to Ten Broeck Tyre Company, Louisville, Ky. Tire. No. 54,912; Apr. 20; v. 273; p. 574.
Hackett, Loyce D., Miami, Fla. Pin. No. 54,913; Apr. 20; v. 273; p. 574.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass casserole or baking-dish and cover. No. 54,914; Apr. 20; v. 273; p. 574.
Hall, C. M., Lamp Company. (See Anklam, William F., assignor.)
Haro, Jesus, New York, N. Y. Game. No. 54,915; Apr. 20; v. 273; p. 574.
Harris, Ruth E., and R. L. Chance, San Francisco, Calif. Salt and pepper basket. No. 54,916; Apr. 20; v. 273; p. 574.
Heine, Frank H. (See Nicholas, Lorena B., assignor.)
Heppes, Otto A., La Grange, Ill. Shingle-simulating strip. No. 54,917; Apr. 20; v. 273; p. 575.
Hermelin, Astrid, New York, N. Y., assignor to Greely Square Hotel Company. Doll. No. 54,918; Apr. 20; v. 273; p. 575.
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Hoffman, George P., Akron, Ohio. Elastic vehicle-tire. Nos. 54,919–21; Apr. 20; v. 273; p. 575.

Holcomb & Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
Hotaling, Omar J., East Orange, N. J., assignor to American Newsvender Corporation, New York, N. Y. Newspaper-vending cabinet. No. 54,841; Apr. 13; v. 273; p. 344.
Howe, Winthrop K., Rochester, N. Y. Washing-machine. No. 54,842; Apr. 13; v. 273; p. 345.
Hoyt, Adrian H., Penacook, N. H. Portable electrical measuring instrument. No. 54,843; Apr. 13; v. 273; p. 345.
Hulse, Edison G., Akron, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Rubber tire. No. 54,844; Apr. 13; v. 273; p. 345.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 54,922; Apr. 20; v. 273; p. 575.
Humphrey, Clen S., Brooklyn, N. Y. Powder-can or similar receptacle. No. 54,923; Apr. 20; v. 273; p. 576.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. No. 54,924; Apr. 20; v. 273; p. 576.
Humphrey, Clen S., assignor, by mesne assignments, to A. E. Bruns, Brooklyn, N. Y. Receptacle for toilet powders and other salable commodities. No. 54,845; Apr. 13; v. 273; p. 345.
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
Jacoby, Leo D., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Fiber plate. No. 54,846; Apr. 13; v. 273; p. 345.
Jarvis, Harold, Toronto, Ontario, Canada. Self-closing faucet. No. 54,847; Apr. 13; v. 273; p. 346.
Johanson, Emil G., assignor to D. H. Roblin, Chicago, Ill. Sheet-glass. No. 54,925; Apr. 20; v. 273; p. 576.
Johnson, Albert J., assignor of one-half to A. J. Malek, Detroit, Mich. Gas-burner. No. 54,848; Apr. 13; v. 273; p. 346.
Johnson, Ernest J., Stoke-upon-Trent, England. Covered dish. No. 54,849; Apr. 13; v. 273; p. 346.
Jones, Thomas G., East Orange, N. J. Bowl. No. 54,850; Apr. 13; v. 273; p. 346.
Jones, Thomas G., East Orange, N. J. Vase. No. 54,926; Apr. 20; v. 273; p. 576.
Kahles, John L., Oakland, Calif. Combined time-table, advertising board and clock. No. 54,927; Apr. 20; v. 273; p. 576.
Kallman, William K., assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 54,817–20; Apr. 6; v. 273; pp. 135–6.
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kelly-Springfield Tire Co. (See Hulse, Edison G., assignor.)
Kerr, Harry E., assignor to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,851; Apr. 13; v. 273; p. 346.
Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,852; Apr. 13; v. 273; p. 347.
Kieffer, Eugene T., Philadelphia, Pa., assignor to Victor Talking Machine Company. Cabinet for a talking-machine. Nos. 54,928–9; Apr. 20; v. 273; p. 576.
Knapp, Sidney M., New York, N. Y. Electric heater. No. 54,930; Apr. 20; v. 273; p. 577.
Koch, Frank A., New York, N. Y. Statuette. No. 54,931; Apr. 20; v. 273; p. 577.
Krauziewicz, Rozy, Pittsburgh, Pa. Bodice. No. 54,932; Apr. 20; v. 273; p. 577.
Kuns, Ray F., Cincinnati, Ohio. Child's toy vehicle. No. 54,933; Apr. 20; v. 273; p. 577.
La Croix, Juliet, Los Angeles, Calif. Pincushion. No. 54,934; Apr. 20; v. 273; p. 577.
Lafitte, Cecile, New York, N. Y. Pincushion. No. 54,853; Apr. 13; v. 273; p. 347.
Landry, Joseph Louis P., Mont Joli, Quebec, Canada. Headlight-bracket. No. 54,935; Apr. 20; v. 273; p. 578.
Lashar, Thomas B., Bridgeport, Conn., assignor to Associated Silver Company, Chicago, Ill. Spoon or similar article. No. 54,854; Apr. 13; v. 273; p. 347.
Levin, Alexander, and J. Medin, Calumet, Mich. Watch-bracelet. No. 54,936; Apr. 20; v. 273; p. 578.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 54,855; Apr. 13; v. 273; p. 347.
Loewenberg, Victor, New York, N. Y. Douche bed-pan. No. 54,856; Apr. 13; v. 273; p. 347.
Lorentzen, Hans K., New York, N. Y. Flag-holder. No. 54,937; Apr. 20; v. 273; p. 578.
Lyon & Healy. (See Campbell, Donald, assignor.)
Lyon, Ossian G., Akron, assignor to Rayon Rubber Co., Ravenna, Ohio. Heel for a boot, shoe, or similar article. No. 54,938; Apr. 20; v. 273; p. 578.
McKinnie, Henry, Pittsburgh, Pa. Gaseous-fuel-burner support. No. 54,949; Apr. 20; v. 273; p. 580.
MacBoyle, James W., Chicago, Ill. Doll. No. 54,939; Apr. 20; v. 273; p. 578.
Malek, August J. (See Johnson, Albert J., assignor.)
Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy animal. Nos. 54,940–2; Apr. 20; v. 273; p. 578–9.
Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy bird. Nos. 54,943–4; Apr. 20; v. 273; p. 579.

Mangless, William A., Chicago, Ill. Phonograph-cabinet. No. 54,985; Apr. 27; v. 273; p. 765.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. No. 54,857; Apr. 13; v. 273; p. 347.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. Nos. 54,945–6; Apr. 20; v. 273; p. 580.
Mangless, William A., assignor to American Automatic Products Corporation, Chicago, Ill. Phonograph-cabinet. No. 54,986; Apr. 27; v. 273; p. 765.
Manzel, Charles W., Buffalo, N. Y. Body of an airship. No. 54,947; Apr. 20; v. 273; p. 580.
Martin, Edwin M., Cincinnati, Ohio. Banner. No. 54,948; Apr. 20; v. 273; p. 580.
Medin, Joseph. (See Levin, A., and Medin.)
Metcalf, Ernest H., Marlboro, N. H. Inhaler. No. 54,987; Apr. 27; v. 273; p. 765.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 54,821–2; Apr. 6; v. 273; p. 136.
Montgomery, Henry S., Topeka, Kans. Dial for timepieces. No. 54,950; Apr. 20; v. 273; p. 580.
Morrison, James, assignor to The Owens Bottle Company, Toledo, Ohio. Bottle. No. 54,977; Apr. 20; v. 273; p. 585.
Morrison, James C., Highland Park, assignor to Nyal Company, Detroit, Mich. Container. No. 54,951; Apr. 20; v. 273; p. 581.
Nellis, Charles Y., Greenville, Ohio. Phonograph-cabinet. No. 54,988; Apr. 27; v. 273; p. 766.
Newburgh, Charles J., Chicago, Ill. Glass cover-plate for headlight-lamps. No. 54,858; Apr. 13; v. 273; p. 348.
Newton, Ollie C., Carterville, Ga. Light. No. 54,952; Apr. 20; v. 273; p. 581.
Nicar, Ted, South Bend, Ind. Rubber heel. No. 54,859; Apr. 13; v. 273; p. 348.
Nicholas, Lorena B., Los Angeles, and F. H. Heine, Santa Ana, Calif. Toy aeroplane. No. 54,860; Apr. 13; v. 273; p. 348.
Niederer, Walter D., Prescott, Ariz. Necktie. No. 54,953; Apr. 20; v. 273; p. 581.
Norman, Denham G., Stoke-upon-Trent, England, assignor to William S. Pitcairn Corporation, New York, N. Y. Dish. No. 54,954; Apr. 20; v. 273; p. 581.
Norris, Frank. (See Dunbar, I., and Norris.)
Nyal Company. (See Morrison, James C., assignor.)
Owens Bottle Company, The. (See Morrison, James, assignor.)
Parker, Paul P., assignor to Parker Tire & Rubber Company, Indianapolis, Ind. Automobile-tire. No. 54,955; Apr. 20; v. 273; p. 581.
Parker Tire & Rubber Company. (See Parker, Paul P., assignor.)
Pitcairn, William S., Corporation. (See Norman, Denham G., assignor.)
Poe, Robert L., assignor to Shell-O-Phone Talking Machine Company, Chicago, Ill. Talking-machine. No. 54,989; Apr. 27; v. 273; p. 766.
Rarig, Walter A., Oakland, Calif. Sight-feed for oil-pipe. No. 54,862; Apr. 13; v. 273; p. 348.
Rayon Rubber Co. (See Lyon, Ossian G., assignor.)
Reily, John P., St. Louis, Mo. Individual ice-cream-service container. No. 54,956; Apr. 20; v. 273; p. 581.
Rewick, Everett E., Los Angeles, Calif. Chair. No. 54,863; Apr. 13; v. 273; p. 348.
Rewick, Everett E., Los Angeles, Calif. Dresser. No. 54,864; Apr. 13; v. 273; p. 349.
Rex Motor Car Manufacturing Company. (See Booth, Robert, assignor.)
Ridgway, Edward J., Staten Island, N. Y. Dish or similar article. Nos. 54,957–9; Apr. 20; v. 273; p. 582.
Ripich, Louis J., Cleveland, Ohio. Lamp. No. 54,865; Apr. 13; v. 273; p. 349.
Roblin, David H. (See Johanson, Emil G., assignor.)
Sanitary Products Corporation of America. (See Jacoby, Leo D., assignor.)
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Goblet. No. 54,866; Apr. 13; v. 273; p. 349.
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Ice-cream dish. No. 54,867; Apr. 13; v. 273; p. 349.
Schneider, Herman E., Pound, Wis. Garment-hanger. No. 54,960; Apr. 20; v. 273; p. 582.
Schuler, William A., New York, N. Y. Fastener. No. 54,961; Apr. 20; v. 273; p. 582.
Schwarze, Carl J., assignor to Schwarze Electric Company, Adrian, Mich. Push-button. No. 54,962; Apr. 20; v. 273; p. 582.
Schwarze Electric Company. (See Schwarze, Carl J., assignor.)
Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
Shamberg, Herbert D., New York, N. Y. Electric generating unit. No. 54,868; Apr. 13; v. 273; p. 349.
Shapiro & Aronson. (See Westphal, Gottfried, assignor.)
Shell-O-Phone Talking Machine Company. (See Poe, Robert L., assignor.)
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. Nos. 54,990–2; Apr. 27; v. 273; p. 766.
Shugg, Mildred E., Brooklyn, N. Y. Toy. No. 54,963; Apr. 20; v. 273; p. 582.

Sidel-Rattner Manufacturing Company. (See Sidel, Robert, assignor.)
Sidel, Robert, New York, N. Y., assignor to Sidel-Rattner Manufacturing Company. Pump-handle. No. 54,869; Apr. 13; v. 273; p. 349.
Silverstein, Joseph, Peoria, Ill. Vehicle-body. No. 54,870; Apr. 13; v. 273; p. 350.
Sleight, William W., Chicago, Ill. Head of a bolt for window-frames. No. 54,964; Apr. 20; v. 273; p. 583.
Sleight, William W., Chicago, Ill. Holdfast for window-frames. Nos. 54,965–6; Apr. 20; v. 273; p. 583.
Smith, Raymond R., Cleveland, assignor to 3-0-3 Chemical Company, Toledo, Ohio. Dispensing-receptacle. No. 54,871; Apr. 13; v. 273; p. 350.
Sollman, Carl P., Jersey City, N. J. Article of glassware. No. 54,967; Apr. 20; v. 273; p. 583.
Sommerhof, William A., Erie, Pa. Article of manufacture—namely, screen for sound-outlets of graphophones. Nos 54,968–9; Apr. 20; v. 273; p. 583.
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Stamm, Alfred H., Peoria, Ill. Toy vehicle. No. 54,872; Apr. 13; v. 273; p. 350.
Staufenbeil, Karl, Dubuque, Iowa. Gentleman's soft-collar holder. No. 54,873; Apr. 13; v. 273; p. 350.
Stone, Elmer B., assignor to American Hardware Corporation, New Britain, Conn. Padlock. No. 54,874; Apr. 13; v. 273; p. 350.
Talbot, Charles L., assignor to F. V. Corns, Chicago, Ill. Shirt. No. 54,970; Apr. 20; v. 273; p. 584.
Ten Broeck Tyre Company. (See Grote, Walther H., assignor.)
Texas Company, The. (See Gatchell, Frederick D., assignor.)
Thommen, William H., Plymouth, assignor to United Phonographs Corporation, Sheboygan, Wis. Phonograph-cabinet. Nos. 54,993–55,000; Apr. 27; v. 273; p. 766.
Thompson, Joseph H., Joplin, Mo. Combination dinner-tray. No. 54,971; Apr. 20; v. 273; p. 584.
3-0-3 Chemical Company. (See Smith, Raymond R., assignor.)
Thwaites, William H., assignor to Thwaites X-Ray Company, Grand Rapids, Mich. Cabinet for X-ray dental apparatus. No. 54,875; Apr. 13; v. 273; p. 350.
Thwaites X-Ray Company. (See Thwaites, William H., assignor.)
Tilghman, Richard C., Washington, D. C. Signpost. No. 54,876; Apr. 13; v. 273; p. 351.
Toohey, John F., Troy, N. Y. Game-board. No. 54,877; Apr. 13; v. 273; p. 351.
Touraine Company, The. (See Duane, Harry B., assignor.)
Trimble, Arthur G., Pittsburgh, Pa. Christian-service flag. No. 54,972; Apr. 20; v. 273; p. 584.
Trout, Charles L., New York, N. Y. Wedding-ring. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
Tsuchiya, Inosuke, Sausalito, Calif. Garden-rake. No. 54,878; Apr. 13; v. 273; p. 351.
United Phonographs Corporation. (See Thommen, William H., assignor.)
United States Glass Company. (See Haley, Reuben, assignor.)
Van Osdel, William J., Chicago, Ill. Handle for hair-clippers. No. 54,861; Apr. 13; v. 273; p. 348.
Van Wyckhuyse, John, Rochester, N. Y. Rocking-horse. No. 54,879; Apr. 13; v. 273; p. 351.
Venn, Charles J., Chicago, Ill. Tire-tread. No. 54,975; Apr. 20; v. 273; p. 584.
Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
Waite Grass Carpet Company. (See Waite, Ossian T., assignor.)
Waite, Ossian T., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 54,880; Apr. 13; v. 273; p. 351.
Watson Company, The. (See Woodward, F. Russell, assignor.)
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 54,881; Apr. 13; v. 273; p. 351.
White, William L., Old Orchard, Me. Combined seat and table. No. 54,882; Apr. 13; v. 273; p. 352.
Willett, Benedict E., Montgomery county, near Dayton, Ohio. Display-rack. No. 54,883; Apr. 13; v. 273; p. 352.
Witcombe, McGeachin & Co. (See Erieson, Emile, assignor.)
Witcombe, McGeachin & Co. (See Fauser, Gustave M., assignor.)
Wittnauer, A., Co. (See Colomb, Charles F., assignor.)
Wittstein, Charles T., Newark, N. J. Gem-mounting. No. 54,976; Apr. 20; v. 273; p. 585.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 55,001; Apr. 27; v. 273; p. 768.
Woodward, F. Russell, assignor to The Watson Company, Attleboro, Mass. Spoon or similar article. No. 55,002; Apr. 27; v. 273; p. 769.
Zork, David, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph-cabinet. Nos. 55,003–8; Apr. 27; v. 273; p. 769.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A R G Auxiliary Spring Co., Birmingham, Ala. Vehicle-springs, fender-braces, &c. No. 130,150; Apr. 13; v. 273; p. 401.
Aaron and Hall, New York, N. Y. Infants' wear. No. 130,451; Apr. 27; v. 273; p. 801.
Abbott Corporation, Detroit, Mich. Automobile pleasure and business cars and motor-trucks. No. 130,452; Apr. 27; v. 273; p. 801.
Abel Bros. & Co., Inc., New York, N. Y. Rings, brooches, bar-pins, lavallières. No. 130,025; Apr. 6; v. 273; p. 179.
Abrams, Saul D., Boston, Mass. Foods and ingredients of foods. No. 130,143; Apr. 13; v. 273; p. 401.
Adler, Stella, St. Louis, Mo. Dolls. No. 130,038; Apr. 6; v. 273; p. 179.
Adwear Process Sole Leather Machine Company, Philadelphia, Pa. Shoe and boot soles and boots and shoes of processed leather. No. 130,453; Apr. 27; v. 273; p. 801.
Agra Company, The, Detroit, Mich. Soaps. No. 130,024; Apr. 6; v. 273; p. 179.
Alaska Bakonized Fish Co., Juneau, Alaska. Canned fish. No. 130,253; Apr. 20; v. 273; p. 619.
Alco Textile Products Co. Inc., Albany, N. Y. Handkerchiefs. No. 130,252; Apr. 20; v. 273; p. 619.
Alexander, Frank B., New York, N. Y. Optical lenses. No. 130,254; Apr. 20; v. 273; p. 619.
Alexander-Holden Paper Co. Inc., New York, N. Y. Cover-paper. No. 120,255; Apr. 20; v. 273; p. 619.
Allcock, S., & Co. Limited, Redditch, England. Sproat-hooks and other fishhooks. No. 130,026; Apr. 6; v. 273; p. 179.
Alsteel Manufacturing Co., Battle Creek, Mich. Combination automobile-tool. No. 130,454; Apr. 27; v. 273; p. 801.
American Balsa Co., Inc., New York, N. Y. Structural material made of wood for insulation against heat, cold, and sound. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
American Limestone Company, Mascot, Tenn. Pulverized limestone. No. 130,027; Apr. 6; v. 273; p. 179.
American Mexican Packing Co., Wilmington, Calif. Canned sardines. No. 130,256; Apr. 20; v. 273; p. 619.
American-National Shoe & Leather Corp., New York, N. Y. Hides and leather. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
American Pure Food Process Co., Baltimore, Md. Jar-caps. No. 130,036; Apr. 6; v. 273; p. 179.
American Pure Food Process Co., The, Baltimore, Md. Glass jars. No. 130,257; Apr. 20; v. 273; p. 619.
American Steel Export Company, New York, N. Y. Metal bridges, wooden ties, metal telegraph and telephone poles and parts, &c. No. 130,028; Apr. 6; v. 273; p. 179.
American Steel and Wire Company of New Jersey, Hoboken, N. J. Helical wire door-springs. No. 130,456; Apr. 27; v. 273; p. 801.
American Steel & Wire Company of New Jersey, Cleveland, Ohio. Oval fence-wire and wire fencing. No. 130,457; Apr. 27; v. 273; p. 801.
American Tobacco Company, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,029; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,030; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking-tobacco and cigarettes. No. 130,031; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,034; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Cigarettes and tobacco. No. 130,035; Apr. 6; v. 273; p. 179.
American Tractors Limited, Honolulu, Hawaii. Canned salmon. No. 130,455; Apr. 27; v. 273; p. 801.
American Trading Company, New York, N. Y. Threads and yarns. No. 130,148; Apr. 13; v. 273; p. 401.
Andersen, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Drill-steel and tool-steel. No. 130,458; Apr. 27; v. 273; p. 801.
Anthony, Max M., Cleveland, Ohio. Candy. No. 130,149; Apr. 13; v. 273; p. 401.
Area Manufacturing Co., assignor to Famous Sales Company, Chicago, Ill. Lubricating compound. No. 130,459; Apr. 27; v. 273; p. 801.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,258; Apr. 20; v. 273; p. 619.

Automatic Electric Washer Co., Newton, Iowa. Laundry power washing-machines. No. 130,037; Apr. 6; v. 273; p. 179.
Axelson Machine Co., Los Angeles, Calif. Lathes and metal-working grinders. No. 130,460; Apr. 27; v. 273; p. 801.
Baer Collapsible Rim Corporation, San Francisco, Calif. Collapsible rim. No. 130,259; Apr. 20; v. 273; p. 619.
Baker and Company Incorporated, Newark, N. J. Gold alloy for dental clasps and the like. No. 130,039; Apr. 6; v. 273; p. 179.
Baker and Company Incorporated, Newark, N. J. White gold for dental shells and plates. No. 130,040; Apr. 6; v. 273; p. 179.
Bardos, Coleman, Jr., New York, N. Y. Glass fire-extinguishers. No. 130,476; Apr. 27; v. 273; p. 801.
Barnet Leather Company, New York, N. Y. Patent-leather and finished calfskins. No. 130,461; Apr. 27; v. 273; p. 801.
Bastian-Blessing Company, Chicago, Ill. Cutting and welding torches and parts thereof. No. 130,151; Apr. 13; v. 273; p. 401.
Bau, José, Tortosa, Spain. Olive-oil. No. 130,260; Apr. 20; v. 273; p. 619.
Bay Ridge Specialty Co., Inc., Brooklyn, N. Y. Bath-room fixtures. No. 130,152; Apr. 13; v. 273; p. 401.
Beach Leather Company, Coshocton, Ohio. Pocket-books. No. 130,041; Apr. 6; v. 273; p. 179.
Beardsley, Calvin L., Rock Island, Ill. Malt extract. No. 130,261; Apr. 20; v. 273; p. 619.
Beatty, William, Jr., and Co., Philadelphia, Pa. Candy. No. 130,262; Apr. 20; v. 273; p. 619.
Becker, Gustav L., Ogden, Utah. Non-intoxicating carbonated cereal maltless beverage. No. 130,153; Apr. 13; v. 273; p. 401.
Bee Esa Knitting Mills, Inc., New York, N. Y. Sweaters, silk, wool, and cotton. No. 130,462; Apr. 27; v. 273; p. 801.
Benjamin & Johnes, Newark, N. J. Corsets, brassières, and women's underwear. No. 130,463; Apr. 27; v. 273; p. 801.
Bergengren, Roy F., Lynn, Mass. Candy. No. 130,154; Apr. 13; v. 273; p. 401.
Blaisdell Pencil Company, Philadelphia, Pa. Lead-pencils, crayons, penholders, fountain-pens, &c. No. 13,263; Apr. 20; v. 273; p. 619.
Blankinship, John S., Lynchburg, Va. Certain named furniture. No. 130,155; Apr. 13; v. 273; p. 401.
Blewett, Henry, & Son, Inc., Somerville, Mass. Bread. No. 130,156; Apr. 13; v. 273; p. 401.
Bliss, E. A., Company, The, Meriden, Conn. Jewelry. No. 130,264; Apr. 20; v. 273; p. 619.
Blue Bird Manufacturing Company, St. Louis, Mo. Clothes-washing machines. No. 130,042; Apr. 6; v. 273; p. 179.
Bogalusa Turpentine Company, Bogalusa, La. Rosin. No. 130,464; Apr. 27; v. 273; p. 801.
Borden Company, The, New York, N. Y. Condensed milk. No. 130,265; Apr. 20; v. 273; p. 619.
Brainol Manufacturing Co., Jacksonville, Fla. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 130,043; Apr. 6; v. 273; p. 179.
Brandquist, Eric W., New York, N. Y. Spark-plugs for internal-combustion engines. No. 130,466; Apr. 27; v. 273; p. 801.
Brauer Bros. Shoe Company, St. Louis, Mo. Shoes of leather, cloth, or canvas. No. 130,266; Apr. 20; v. 273; p. 619.
Brighton Shirt Co., New York, N. Y. Men's and boys' dress-negligées and work-shirts. No. 130,267; Apr. 20; v. 273; p. 619.
Breakstone Bros., Inc., Walton and New York, N. Y. Condensed milk. No. 130,467; Apr. 27; v. 273; p. 801.
Bridgeport Brass Company, Bridgeport, Conn. Copper, brass, and bronze ingots, rods, sheets, &c. No. 130,468; Apr. 27; v. 273; p. 801.
Brockway-Smith Corporation, Boston, Mass. Construction materials. No. 130,469; Apr. 27; v. 273; p. 801.
Brown Brothers Company, Gainesville, Fla.; New York, N. Y., and Memphis, Tenn. Lumber stock material. No. 130,157; Apr. 13; v. 273; p. 401.
Brown, James S., Chicago, Ill. Electrically-operated traffic-signals for vehicles. No. 130,268; Apr. 20; v. 273; p. 619.
Brown Portable Conveying Machinery Co., Chicago, Ill. Tiering-machines. No. 130,158; Apr. 13; v. 273; p. 401.
Brown, Thomas E., Philadelphia, Pa. Hosiery. No. 130,269; Apr. 20; v. 273; p. 619.
Brownell, William M., New York, N. Y. Cooking-syrup for confectioners and bakers. No. 130,270; Apr. 20; v. 273; p. 619.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Billiard and pocket-billiard balls. No. 130,044; Apr. 6; v. 273; p. 179.
Buckeye Brewing Co., Toledo, Ohio. Non-intoxicating malt beverage. No. 130,159; Apr. 13; v. 273; p. 401.
Buda Company, Chicago, Ill. Railway hand-cars. No. 130,045; Apr. 6; v. 273; p. 179.
Burger, Iwan, New York, N. Y. Foods and ingredients of foods. No. 130,160; Apr. 13; v. 273 p. 401.
Burke, Alfred W., Lowell, Mass. Repair-links for chains. No. 130,271; Apr. 20; v. 273; p. 619.
Burton Bros. & Co., New York, N. Y. Voile. No. 130,272; Apr. 20; v. 273; p. 619.
Byers, John F., Machine Company, The, Ravenna, Ohio. Portable hoisting-derricks. No. 130,161; Apr. 13; v. 273; p. 401.
California Macaroni Company, San Francisco, Calif. Macaroni, spaghetti, vermicelli. No. 130,273; Apr. 20; v. 273; p. 619.
California Optical Company, San Francisco, Calif. Binoculars, field-glasses, range-finders, &c. No. 130,470; Apr. 27; v. 273; p. 801.
California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 130,274; Apr. 20; v. 273; p. 619.
California Walnut Growers Association, Los Angeles, Calif. Walnut-meats. No. 130,162; Apr. 13; v. 273; p. 401.
Camden Motors Corporation, Camden, N. J. Passenger-automobiles and motor-trucks. No. 130,471; Apr. 27; v. 273; p. 801.
Campbell, Edward H., Highwood, Mont. Non-alcoholic maltless beverage. No. 130,046; Apr. 6; v. 273; p. 179.
Campbell, James A., Chicago, Ill. Eyebrow-brushes. No. 130,047; Apr. 6; v. 273; p. 179.
Cardinet Candy Co., Oakland, Calif. Candy. No. 130,472; Apr. 27; v. 273; p. 801.
Carson, Pirie, Scott & Co., Chicago, Ill. Ginghams, percales, bleached muslin, &c. No. 130,275; Apr. 20; v. 273; p. 619.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Co., Chicago, Ill. Men's negligée outer shirts. No. 130,276; Apr. 20; v. 273; p. 619.
Castle Kid Co., Camden, N. J. Leather for shoes. No. 130,048; Apr. 6; v. 273; p. 179.
Centilvre Beverage Co., Fort Wayne, Ind. Malt beverage. No. 130,163; Apr. 13; v. 273; p. 401.
Chamberlain, F. B., Company, St. Louis, Mo. Farina, pearl-barley, cornmeal, &c. No. 130,473; Apr. 27; v. 273; p. 801.
Chamberlin, H. J., Inc., Worcester, Mass. Wire meat-broilers. No. 130,277; Apr. 20; v. 273; p. 619.
Cheri, Inc., Philadelphia, Pa. Foods. No. 130,474; Apr. 27; v. 273; p. 801.
Chevaux Kid Leather Co., Boston, Mass. Finished leather. No. 120,278; Apr. 20; v. 273; p. 619.
Chicago Flexible Shaft Company, Chicago, Ill. Electrical flatirons. No. 130,279; Apr. 20; v. 273; p. 619.
Chicago Hardware Foundry Company, North Chicago, Ill. Furniture. No. 130,049; Apr. 6; v. 273; p. 179.
Chicago Paper Company, Chicago, Ill. Paper. No. 130,050; Apr. 6; v. 273; p. 179.
China, Japan & South America Trading Co., Ltd., New York, N. Y. Cotton, silk and wool piece goods. No. 130,051; Apr. 6; v. 273; p. 179.
Chippewa Springs Corporation, Minneapolis, Minn. Natural spring-water and its products. No. 130,164; Apr. 13; v. 273; p. 401.
Clark, Thomas E., Detroit, Mich. Electric fans. No. 130,280; Apr. 20; v. 273; p. 619.
Clarksville Canning Co., Clarksville, Iowa. Canned corn. No. 130,281; Apr. 20; v. 273; p. 620.
Cochran, H. K., Company, Little Rock, Ark. Grain-seed. No. 130,282; Apr. 20; v. 273; p. 620.
Cochrane, T. H., Co., Portage, Wis. Field and garden seeds. No. 130,165; Apr. 13; v. 273; p. 401.
Coingum Manufacturing Company, Philadelphia, Pa. Chewing-gum. No. 130,475; Apr. 27; v. 273; p. 801.
Columbia Fastener Company, Chicago, Ill. Snap-fasteners. Nos. 130,283–4; Apr. 20; v. 273; p. 620.
Columbia Fastener Company, Chicago, Ill. Snap dress-fasteners. No. 130,285; Apr. 20; v. 273; p. 620.
Commerce Motor Car Company, Detroit, Mich. Motor-trucks. No. 130,477; Apr. 27; v. 273; p. 801.
Commercial Union of America, Incorporated, New York, N. Y. Cabots. No. 130,478; Apr. 27; v. 273; p. 802.
Commonwealth Steel Company, St. Louis, Mo. Cradles, pilot-beams, end sills, &c. No. 130,166; Apr. 13; v. 273; p. 401.
Compound Injector & Specialty Co., Chicago, Ill. Plumbing fixtures and supplies. No. 130,479; Apr. 27; v. 273; p. 802.
Consolidated Creameries, Inc., New York, N. Y. Canned condensed milk. No. 130,052; Apr. 6; v. 273; p. 179.
Consolidated Tool Works, Inc., New York, N. Y. Callipers, and dividers for measuring purposes, &c. No. 130,286; Apr. 20; v. 273; p. 620.
Contra-Pole Electric Company, Inc., New York, N. Y. Electrotherapeutic apparatus for generating high-frequency currents. No. 130,053; Apr. 6; v. 273; p. 180.
Cook, Homer F., Hadley, Mass. Corn brooms. No. 130,054; Apr. 6; v. 273; p. 180.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's and women's night-wear. No. 130,287; Apr. 20; v. 273; p. 620.
Corn Products Refining Co., New York, N. Y. Corn-starch. No. 130,480; Apr. 27; v. 273; p. 801.
Corning Glass Works, Corning, N. Y. Glass. No. 130,167; Apr. 13; v. 273; p. 401.
Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Fertilizers. No. 130,168; Apr. 13; v. 273; p. 401.
Cunill de Figuerola, José, New York, N. Y. Automobiles and motor-trucks. No. 130,288; Apr. 20; v. 273; p. 620.
Curtin, John, Corporation, New York, N. Y. Tents, canopies, awnings, &c. No. 130,169; Apr. 13; v. 273; p. 401.

Sidel-Rattner Manufacturing Company. (See Sidel, Robert, assignor.)
Sidel, Robert, New York, N. Y., assignor to Sidel-Rattner Manufacturing Company. Pump-handle. No. 54,869; Apr. 13; v. 273; p. 349.
Silverstein, Joseph, Peoria, Ill. Vehicle-body. No. 54,870; Apr. 13; v. 273; p. 350.
Sleight, William W., Chicago, Ill. Head of a bolt for window-frames. No. 54,964; Apr. 20; v. 273; p. 583.
Sleight, William W., Chicago, Ill. Holdfast for window-frames. Nos. 54,965–6; Apr. 20; v. 273; p. 583.
Smith, Raymond R., Cleveland, assignor to 3-0-3 Chemical Company, Toledo, Ohio. Dispensing-receptacle. No. 54,871; Apr. 13; v. 273; p. 350.
Sollman, Carl P., Jersey City, N. J. Article of glassware. No. 54,967; Apr. 20; v. 273; p. 583.
Sommerhof, William A., Erie, Pa. Article of manufacture—namely, screen for sound-outlets of graphophones. Nos 54,968–9; Apr. 20; v. 273; p. 583.
Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
Stamm, Alfred H., Peoria, Ill. Toy vehicle. No. 54,872; Apr. 13; v. 273; p. 350.
Staufenbell, Karl, Dubuque, Iowa. Gentleman's soft-collar holder. No. 54,873; Apr. 13; v. 273; p. 350.
Stone, Elmer B., assignor to American Hardware Corporation, New Britain, Conn. Padlock. No. 54,874; Apr. 13; v. 273; p. 350.
Talbot, Charles L., assignor to F. V. Corns, Chicago, Ill. Shirt. No. 54,970; Apr. 20; v. 273; p. 584.
Ten Broeck Tyre Company. (See Grote, Walther H., assignor.)
Texas Company, The. (See Gatchell, Frederick D., assignor.)
Thommen, William H., Plymouth, assignor to United Phonographs Corporation, Sheboygan, Wis. Phonograph-cabinet. Nos. 54,993–55,000; Apr. 27; v. 273; p. 766.
Thompson, Joseph H., Joplin, Mo. Combination dinner-tray. No. 54,971; Apr. 20; v. 273; p. 584.
3-0-3 Chemical Company. (See Smith, Raymond R., assignor.)
Thwaites, William H., assignor to Thwaites X-Ray Company, Grand Rapids, Mich. Cabinet for X-ray dental apparatus. No. 54,875; Apr. 13; v. 273; p. 350.
Thwaites X-Ray Company. (See Thwaites, William H., assignor.)
Tilghman, Richard C., Washington, D. C. Signpost. No. 54,876; Apr. 13; v. 273; p. 351.
Toohey, John F., Troy, N. Y. Game-board. No. 54,877; Apr. 13; v. 273; p. 351.
Touraine Company, The. (See Duane, Harry B., assignor.)
Trimble, Arthur G., Pittsburgh, Pa. Christian-service flag. No. 54,972; Apr. 20; v. 273; p. 584.
Trout, Charles L., New York, N. Y. Wedding-ring. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
Tsuchiya, Inosuke, Sausalito, Calif. Garden-rake. No. 54,878; Apr. 13; v. 273; p. 351.
United Phonographs Corporation. (See Thommen, William H., assignor.)
United States Glass Company. (See Haley, Reuben, assignor.)
Van Osdel, William J., Chicago, Ill. Handle for hair-clippers. No. 54,861; Apr. 13; v. 273; p. 348.
Van Wuyckhuyse, John, Rochester, N. Y. Rocking-horse. No. 54,879; Apr. 13; v. 273; p. 351.
Venn, Charles J., Chicago, Ill. Tire-tread. No. 54,975; Apr. 20; v. 273; p. 584.
Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
Waite Grass Carpet Company. (See Waite, Ossian T., assignor.)
Waite, Ossian T., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 54,880; Apr. 13; v. 273; p. 351.
Watson Company, The. (See Woodward, F. Russell, assignor.)
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 54,881; Apr. 13; v. 273; p. 351.
White, William L., Old Orchard, Me. Combined seat and table. No. 54,882; Apr. 13; v. 273; p. 352.
Willett, Benedict E., Montgomery county, near Dayton, Ohio. Display-rack. No. 54,883; Apr. 13; v. 273; p. 352.
Witcombe, McGeachin & Co. (See Ericson, Emile, assignor.)
Witcombe, McGeachin & Co. (See Fauser, Gustave M., assignor.)
Wittmuer, A., Co. (See Colomb, Charles F., assignor.)
Wittstein, Charles T., Newark, N. J. Gem-mounting. No. 54,976; Apr. 20; v. 273; p. 585.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 55,001; Apr. 27; v. 273; p. 768.
Woodward, F. Russell, assignor to The Watson Company, Attleboro, Mass. Spoon or similar article. No. 55,002; Apr. 27; v. 273; p. 769.
Zork, David, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph-cabinet. Nos. 55,003–8; Apr. 27; v. 273; p. 769.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A R G Auxiliary Spring Co., Birmingham, Ala. Vehicle-springs, fender-braces, &c. No. 130,150; Apr. 13; v. 273; p. 401.
Aaron and Hall, New York, N. Y. Infants' wear. No. 130,451; Apr. 27; v. 273; p. 801.
Abbott Corporation, Detroit, Mich. Automobile pleasure and business cars and motor-trucks. No. 130,452; Apr. 27; v. 273; p. 801.
Abel Bros. & Co., Inc., New York, N. Y. Rings, brooches, bar-pins, lavallières. No. 130,025; Apr. 6; v. 273; p. 179.
Abrams, Saul D., Boston, Mass. Foods and ingredients of foods. No. 130,143; Apr. 13; v. 273; p. 401.
Adler, Stella, St. Louis, Mo. Dolls. No. 130,038; Apr. 6; v. 273; p. 179.
Adwear Process Sole Leather Machine Company, Philadelphia, Pa. Shoe and boot soles and boots and shoes of processed leather. No. 130,453; Apr. 27; v. 273; p. 801.
Agra Company, The, Detroit, Mich. Soaps. No. 130,024; Apr. 6; v. 273; p. 179.
Alaska Bakonized Fish Co., Juneau, Alaska. Canned fish. No. 130,253; Apr. 20; v. 273; p. 619.
Alco Textile Products Co. Inc., Albany, N. Y. Handkerchiefs. No. 130,252; Apr. 20; v. 273; p. 619.
Alexander, Frank B., New York, N. Y. Optical lenses. No. 130,254; Apr. 20; v. 273; p. 619.
Alexander-Holden Paper Co. Inc., New York, N. Y. Cover-paper. No. 120,255; Apr. 20; v. 273; p. 619.
Allcock, S., & Co. Limited, Redditch, England. Sproat-books and other fishhooks. No. 130,026; Apr. 6; v. 273; p. 179.
Alsteel Manufacturing Co., Battle Creek, Mich. Combination automobile-tool. No. 130,454; Apr. 27; v. 273; p. 801.
American Balsa Co., Inc., New York, N. Y. Structural material made of wood for insulation against heat, cold, and sound. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
American Limestone Company, Mascot, Tenn. Pulverized limestone. No. 130,027; Apr. 6; v. 273; p. 179.
American Mexican Packing Co., Wilmington, Calif. Canned sardines. No. 130,256; Apr. 20; v. 273; p. 619.
American-National Shoe & Leather Corp., New York, N. Y. Hides and leather. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
American Pure Food Process Co., Baltimore, Md. Jar-caps. No. 130,036; Apr. 6; v. 273; p. 179.
American Pure Food Process Co., The, Baltimore, Md. Glass jars. No. 130,257; Apr. 20; v. 273; p. 619.
American Steel Export Company, New York, N. Y. Metal bridges, wooden ties, metal telegraph and telephone poles and parts, &c. No. 130,028; Apr. 6; v. 273; p. 179.
American Steel and Wire Company of New Jersey, Hoboken, N. J. Helical wire door-springs. No. 130,456; Apr. 27; v. 273; p. 801.
American Steel & Wire Company of New Jersey, Cleveland, Ohio. Oval fence-wire and wire fencing. No. 130,457; Apr. 27; v. 273; p. 801.
American Tobacco Company, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,029; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,030; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking-tobacco and cigarettes. No. 130,031; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 130,034; Apr. 6; v. 273; p. 179.
American Tobacco Company, New York, N. Y. Cigarettes and tobacco. No. 130,035; Apr. 6; v. 273; p. 179.
American Tractors Limited, Honolulu, Hawaii. Canned salmon. No. 130,455; Apr. 27; v. 273; p. 801.
American Trading Company, New York, N. Y. Threads and yarns. No. 130,148; Apr. 13; v. 273; p. 401.
Andersen, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Drill-steel and tool-steel. No. 130,458; Apr. 27; v. 273; p. 801.
Anthony, Max M., Cleveland, Ohio. Candy. No. 130,149; Apr. 13; v. 273; p. 401.
Area Manufacturing Co., assignor to Famous Sales Company, Chicago, Ill. Lubricating compound. No. 130,459; Apr. 27; v. 273; p. 801.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,258; Apr. 20; v. 273; p. 619.

Automatic Electric Washer Co., Newton, Iowa. Laundry power washing-machines. No. 130,037; Apr. 6; v. 273; p. 179.
Axelson Machine Co., Los Angeles, Calif. Lathes and metal-working grinders. No. 130,460; Apr. 27; v. 273; p. 801.
Baer Collapsible Rim Corporation, San Francisco, Calif. Collapsible rim. No. 130,259; Apr. 20; v. 273; p. 619.
Baker and Company Incorporated, Newark, N. J. Gold alloy for dental clasps and the like. No. 130,039; Apr. 6; v. 273; p. 179.
Baker and Company Incorporated, Newark, N. J. White gold for dental shells and plates. No. 130,040; Apr. 6; v. 273; p. 179.
Bardos, Coleman, Jr., New York, N. Y. Glass fire-extinguishers. No. 130,476; Apr. 27; v. 273; p. 801.
Barnet Leather Company, New York, N. Y. Patent-leather and finished calfskins. No. 130,461; Apr. 27; v. 273; p. 801.
Bastian-Blessing Company, Chicago, Ill. Cutting and welding torches and parts thereof. No. 130,151; Apr. 13; v. 273; p. 401.
Bau, José, Tortosa, Spain. Olive-oil. No. 130,260; Apr. 20; v. 273; p. 619.
Bay Ridge Specialty Co., Inc., Brooklyn, N. Y. Bath-room fixtures. No. 130,152; Apr. 13; v. 273; p. 401.
Beach Leather Company, Coshocton, Ohio. Pocket-books. No. 130,041; Apr. 6; v. 273; p. 179.
Beardsley, Calvin L., Rock Island, Ill. Malt extract. No. 130,261; Apr. 20; v. 273; p. 619.
Beatty, William, Jr., and Co., Philadelphia, Pa. Candy. No. 130,262; Apr. 20; v. 273; p. 619.
Becker, Gustav L., Ogden, Utah. Non-intoxicating carbonated cereal maltless beverage. No. 130,153; Apr. 13; v. 273; p. 401.
Bee Ess Knitting Mills, Inc., New York, N. Y. Sweaters, silk, wool, and cotton. No. 130,462; Apr. 27; v. 273; p. 801.
Benjamin & Johnes, Newark, N. J. Corsets, brassières, and women's underwear. No. 130,463; Apr. 27; v. 273; p. 801.
Bergengren, Roy F., Lynn, Mass. Candy. No. 130,154; Apr. 13; v. 273; p. 401.
Blaisdell Pencil Company, Philadelphia, Pa. Lead-pencils, crayons, penholders, fountain-pens, &c. No. 13,263; Apr. 20; v. 273; p. 619.
Blankinship, John S., Lynchburg, Va. Certain named furniture. No. 130,155; Apr. 13; v. 273; p. 401.
Blewett, Henry, & Son, Inc., Somerville, Mass. Bread. No. 130,156; Apr. 13; v. 273; p. 401.
Bliss, E. A., Company, The, Meriden, Conn. Jewelry. No. 130,264; Apr. 20; v. 273; p. 619.
Blue Bird Manufacturing Company, St. Louis, Mo. Clothes-washing machines. No. 130,042; Apr. 6; v. 273; p. 179.
Bogalusa Turpentine Company, Bogalusa, La. Rosin. No. 130,464; Apr. 27; v. 273; p. 801.
Borden Company, The, New York, N. Y. Condensed milk. No. 130,265; Apr. 20; v. 273; p. 619.
Brainol Manufacturing Co., Jacksonville, Fla. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 130,043; Apr. 6; v. 273; p. 179.
Brandquist, Eric W., New York, N. Y. Spark-plugs for internal-combustion engines. No. 130,466; Apr. 27; v. 273; p. 801.
Brauer Bros. Shoe Company, St. Louis, Mo. Shoes of leather, cloth, or canvas. No. 130,266; Apr. 20; v. 273; p. 619.
Brighton Shirt Co., New York, N. Y. Men's and boys' dress-negligées and work-shirts. No. 130,267; Apr. 20; v. 273; p. 619.
Breakstone Bros. Inc., Walton and New York, N. Y. Condensed milk. No. 130,467; Apr. 27; v. 273; p. 801.
Bridgeport Brass Company, Bridgeport, Conn. Copper, brass, and bronze ingots, rods, sheets, &c. No. 130,468; Apr. 27; v. 273; p. 801.
Brockway-Smith Corporation, Boston, Mass. Construction materials. No. 130,469; Apr. 27; v. 273; p. 801.
Brown Brothers Company, Gainesville, Fla.; New York, N. Y., and Memphis, Tenn. Lumber stock material. No. 130,157; Apr. 13; v. 273; p. 401.
Brown, James S., Chicago, Ill. Electrically-operated traffic-signals for vehicles. No. 130,268; Apr. 20; v. 273; p. 619.
Brown Portable Conveying Machinery Co., Chicago, Ill. Tiering-machines. No. 130,158; Apr. 13; v. 273; p. 401.
Brown, Thomas E., Philadelphia, Pa. Hosiery. No. 130,269; Apr. 20; v. 273; p. 619.
Brownell, William M., New York, N. Y. Cooking-syrup for confectioners and bakers. No. 130,270; Apr. 20; v. 273; p. 619.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Billiard and pocket-billiard balls. No. 130,044; Apr. 6; v. 273; p. 179.
Buckeye Brewing Co., Toledo, Ohio. Non-intoxicating malt beverage. No. 130,159; Apr. 13; v. 273; p. 401.
Buda Company, Chicago, Ill. Railway hand-cars. No. 130,045; Apr. 6; v. 273; p. 179.
Burger, Iwan, New York, N. Y. Foods and ingredients of foods. No. 130,160; Apr. 13; v. 273 p. 401.
Burke, Alfred W., Lowell, Mass. Repair-links for chains. No. 130,271; Apr. 20; v. 273; p. 619.
Burton Bros. & Co., New York, N. Y. Voile. No. 130,272; Apr. 20; v. 273; p. 619.
Byers, John F., Machine Company, The, Ravenna, Ohio. Portable hoisting-derricks. No. 130,161; Apr. 13; v. 273; p. 401.
California Macaroni Company, San Francisco, Calif. Macaroni, spaghetti, vermicelli. No. 130,273; Apr. 20; v. 273; p. 619.
California Optical Company, San Francisco, Calif. Binoculars, field-glasses, range-finders, &c. No. 130,470; Apr. 27; v. 273; p. 801.
California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 130,274; Apr. 20; v. 273; p. 619.
California Walnut Growers Association, Los Angeles, Calif. Walnut-meats. No. 130,162; Apr. 13; v. 273; p. 401.
Camden Motors Corporation, Camden, N. J. Passenger-automobiles and motor-trucks. No. 130,471; Apr. 27; v. 273; p. 801.
Campbell, Edward H., Highwood, Mont. Non-alcoholic maltless beverage. No. 130,046; Apr. 6; v. 273; p. 179.
Campbell, James A., Chicago, Ill. Eyebrow-brushes. No. 130,047; Apr. 6; v. 273; p. 179.
Cardinet Candy Co., Oakland, Calif. Candy. No. 130,472; Apr. 27; v. 273; p. 801.
Carson, Pirie, Scott & Co., Chicago, Ill. Ginghams, percales, bleached muslin, &c. No. 130,275; Apr. 20; v. 273; p. 619.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Co., Chicago, Ill. Men's negligée outer shirts. No. 130,276; Apr. 20; v. 273; p. 619.
Castle Kid Co., Camden, N. J. Leather for shoes. No. 130,048; Apr. 6; v. 273; p. 179.
Centlivre Beverage Co., Fort Wayne, Ind. Malt beverage. No. 130,163; Apr. 13; v. 273; p. 401.
Chamberlain, F. B., Company, St. Louis, Mo. Farina, pearl-barley, cornmeal, &c. No. 130,473; Apr. 27; v. 273; p. 801.
Chamberlin, H. J., Inc., Worcester, Mass. Wire meat-broilers. No. 130,277; Apr. 20; v. 273; p. 619.
Cheri, Inc., Philadelphia, Pa. Foods. No. 130,474; Apr. 27; v. 273; p. 801.
Chevaux Kid Leather Co., Boston, Mass. Finished leather. No. 120,278; Apr. 20; v. 273; p. 619.
Chicago Flexible Shaft Company, Chicago, Ill. Electrical flatirons. No. 130,279; Apr. 20; v. 273; p. 619.
Chicago Hardware Foundry Company, North Chicago, Ill. Furniture. No. 130,049; Apr. 6; v. 273; p. 179.
Chicago Paper Company, Chicago, Ill. Paper. No. 130,050; Apr. 6; v. 273; p. 179.
China, Japan & South America Trading Co., Ltd., New York, N. Y. Cotton, silk and wool piece goods. No. 130,051; Apr. 6; v. 273; p. 179.
Chippewa Springs Corporation, Minneapolis, Minn. Natural spring-water and its products. No. 130,164; Apr. 13; v. 273; p. 401.
Clark, Thomas E., Detroit, Mich. Electric fans. No. 130,280; Apr. 20; v. 273; p. 619.
Clarksville Canning Co., Clarksville, Iowa. Canned corn. No. 130,281; Apr. 20; v. 273; p. 620.
Cochran, H. K., Company, Little Rock, Ark. Grain-seed. No. 130,282; Apr. 20; v. 273; p. 620.
Cochrane, T. H., Co., Portage, Wis. Field and garden seeds. No. 130,165; Apr. 13; v. 273; p. 401.
Coingum Manufacturing Company, Philadelphia, Pa. Chewing-gum. No. 130,475; Apr. 27; v. 273; p. 801.
Columbia Fastener Company, Chicago, Ill. Snap-fasteners. Nos. 130,283–4; Apr. 20; v. 273; p. 620.
Columbia Fastener Company, Chicago, Ill. Snap dress-fasteners. No. 130,285; Apr. 20; v. 273; p. 620.
Commerce Motor Car Company, Detroit, Mich. Motor-trucks. No. 130,477; Apr. 27; v. 273; p. 801.
Commercial Union of America, Incorporated, New York, N. Y. Cabots. No. 130,478; Apr. 27; v. 273; p. 802.
Commonwealth Steel Company, St. Louis, Mo. Cradles, pilot-beams, end sills, &c. No. 130,166; Apr. 13; v. 273; p. 401.
Compound Injector & Specialty Co., Chicago, Ill. Plumbing fixtures and supplies. No. 130,479; Apr. 27; v. 273; p. 802.
Consolidated Creameries, Inc., New York, N. Y. Canned condensed milk. No. 130,052; Apr. 6; v. 273; p. 179.
Consolidated Tool Works, Inc., New York, N. Y. Calipers, and dividers for measuring purposes, &c. No. 130,286; Apr. 20; v. 273; p. 620.
Contra-Pole Electric Company, Inc., New York, N. Y. Electrotherapeutic apparatus for generating high-frequency currents. No. 130,053; Apr. 6; v. 273; p. 180.
Cook, Homer F., Hadley, Mass. Corn brooms. No. 130,054; Apr. 6; v. 273; p. 180.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's and women's night-wear. No. 130,287; Apr. 20; v. 273; p. 620.
Corn Products Refining Co., New York, N. Y. Cornstarch. No. 130,480; Apr. 27; v. 273; p. 801.
Corning Glass Works, Corning, N. Y. Glass. No. 130,167; Apr. 13; v. 273; p. 401.
Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Fertilizers. No. 130,168; Apr. 13; v. 273; p. 401.
Cunill de Figuerola, José, New York, N. Y. Automobiles and motor-trucks. No. 130,288; Apr. 20; v. 273; p. 620.
Curtin, John, Corporation, New York, N. Y. Tents, canopies, awnings, &c. No. 130,169; Apr. 13; v. 273; p. 401.

Da Costa, Albert, Philadelphia, Pa. Olive-oil and olives. No. 130,170; Apr. 13; v. 273; p. 401.
Dafoe-Eustice Company, Detroit, Mich. Coal-bags. No. 130,057; Apr. 6; v. 273; p. 180.
Dafoe-Eustice Company, Detroit, Mich. Waterproof truck and tractor covers, tarpaulins, &c. No. 130,171; Apr. 13; v. 273; p. 401.
Dafoe-Eustice Company, Detroit, Mich. Golf-bags and tennis-racket covers. No. 130,481; Apr. 27; v. 273; p. 802.
Davis Co., H. E., Freeport, Me. Women's leather shoes. No. 130,482; Apr. 27; v. 273; p. 802.
Deister Concentrator Company, The, Fort Wayne, Ind. Ore-concentrators. No. 130,483; Apr. 27; v. 273; p. 802.
De Luxe Clock & Mfg. Co. Inc., New York, N. Y. Alarm-clock and other clocks. No. 130,058; Apr. 6; v. 273; p. 180.
Denver Fire Clay Company, Denver, Colo. Hydrocarbon burners and furnaces. No. 130,172; Apr. 13; v. 273; p. 402.
De Pew, Thomas H., Canton, Ohio. Phonographs and records. No. 130,059; Apr. 6; v. 273; p. 180.
Derf Manufacturing Company, New York, N. Y. Spark-plugs. No. 130,289; Apr. 20; v. 273; p. 620.
Derryvale Linen Company, New York, N. Y. Textiles. Nos. 130,060–1; Apr. 6; v. 273; p. 180.
Detroit Stove Works, Detroit, Mich. Prepared steel stove-linings. No. 130,290; Apr. 20; v. 273; p. 620.
Detroit Vapor Stove Company, The, Detroit, Mich. Gas, oil, and coal burning stoves. No. 130,062; Apr. 6; v. 273; p. 180.
De Vol, P. C., Hardware Company, Council Bluffs, Iowa. Air-heating furnace, coal-heated. No. 130,173; Apr. 13; v. 273; p. 402.
Diggs, Howard M., East Orange, N. J. Punches. No. 130,291; Apr. 20; v. 273; p. 620.
Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. No. 130,484; Apr. 27; v. 273; p. 802.
Divine Dwight & Sons, Ellenville, N. Y. Knives. Nos. 130,489–90; Apr. 27; v. 273; p. 802.
Dixie Refining Co., Memphis, Tenn. Lard compound. No. 130,174; Apr. 13; v. 273; p. 402.
Dollfus-Mieg & Cie. Societe Anonyme, Millhouse, Germany. Alsatian braids of silk, linen, &c. Nos. 130,175–6; Apr. 13; v. 273; p. 402.
Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. No. 130,485; Apr. 27; v. 273; p. 802.
Dramafilms, New York, N. Y. Motion-picture films. No. 130,486; Apr. 27; v. 273; p. 802.
Draper Manufacturing Company, Port Huron, Mich. Hollow balanced balls of brass or other metal. No. 130,487; Apr. 27; v. 273; p. 802.
Dutton, George C., Boston, Mass. Games. No. 130,488; Apr. 27; v. 273; p. 802.
Eldridge, Geo. R., Co., Detroit, Mich. Butter. No. 130,292; Apr. 20; v. 273; p. 620.
Electric brazing and Welding Machine Co., Inc., New York, N. Y. Demagnetizing apparatus or devices. No. 130,491; Apr. 27; v. 273; p. 802.
Elgin Gas Motor Company, Elgin, Ill. Internal-combustion engines. No. 130,293; Apr. 20; v. 273; p. 620.
Elgin Motor Car Corporation, Argo, Ill. Motor-vehicles. No. 130,294; Apr. 20; v. 273; p. 620.
Ellingwood Turning Co., West Paris, Me. Skees. No. 130,492; Apr. 27; v. 273; p. 802.
Ely & Walker Goods Co., St. Louis, Mo., and New York, N. Y. Hose-supporter. No. 130,295; Apr. 20; v. 273; p. 620.
Emerson Phonograph Company, Inc., New York, N. Y. Phonograph-records. No. 130,063; Apr. 6; v. 273; p. 180.
Enders, Wm., Manufacturing Company, Walden, N. Y. Stovepipe, gas, coal, and wood stoves, portable ovens. No. 130,177; Apr. 13; v. 273; p. 402.
Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 130,064; Apr. 6; v. 273; p. 180.
F. A. B. Manufacturing Co., Oakland and San Francisco, Calif. Pumps used in dispensing liquid from containers. No. 130,493; Apr. 27; v. 273; p. 802.
Faehndrich, William, New York, N. Y. Cheese. No. 130,494; Apr. 27; v. 273; p. 802.
Falls Machine Company, Sheboygan Falls, Wis. Engine stop mechanism. No. 130,495; Apr. 27; v. 273; p. 802.
Famous Sales Company. (See Area Manufacturing Co., assignor.)
Faw, J. H., Inc., New York, N. Y. Electrical wire and fuses. No. 130,496; Apr. 27; v. 273; p. 802.
Fearing, Whiton & Co., Inc., Boston, Mass. Cotton sheeting. No. 130,497; Apr. 27; v. 273; p. 802.
Feehan, Medora A., Haverhill, Mass. Men's, women's, and children's shoes, boots, and slippers. No. 130,498; Apr. 27; v. 273; p. 802.
Foersterling, Hans, Jamesburg, N. J. Foods. No. 130,178; Apr. 13; v. 273; p. 402.
Fowler Nail Co., Seymour, Conn. Horseshoe and molders' nails. No. 130,499; Apr. 27; v. 273; p. 802.
Franklin Simon & Co. Inc., New York, N. Y. Garments for men, women, and children. No. 130,575; Apr. 27; v. 273; p. 805.
Franklin Storage Battery Co., Chicago, Ill. Storage batteries. No. 130,296; Apr. 20; v. 273; p. 620.
From, Harris, Brooklyn, N. Y. Fishing-reels. No. 130,500; Apr. 27; v. 273; p. 802.
Fuld, Traube & Co. Inc., New York, N. Y. Veils, mallines, hair-nets, chiffons. No. 130,297; Apr. 20; v. 273; p. 620.
Fuld, William, Baltimore, Md. Game known as a talking-board. No. 130,142; Apr. 6; v. 273; p. 182.
Fulford Mfg. Co., Providence, R. I. Snap-fasteners. No. 130,298; Apr. 20; v. 273; p. 620.
Furber, Frederick M., Revere, Mass., assignor to Furber Manufacturing Corporation. Spark-plugs. No. 130,299; Apr. 20; v. 273; p. 620.
Furber Manufacturing Corporation. (See Furber, Frederick M., assignor.)
Furry Fruit & Produce Co., Yakima, Wash. Fresh fruits. No. 130,300; Apr. 20; v. 273; p. 620.
Gagen Sales Corporation, Chicago, Ill. Metal building materials. No. 130,179; Apr. 13; v. 273; p. 402.
Geer, Walter L., New York, N. Y. Olive-oil. No. 130,301; Apr. 20; v. 273; p. 620.
Gentile, Oronzio, West Hoboken, N. J. Shoes of leather, rubber, fabric, and combination of the same. No. 130,302; Apr. 20; v. 273; p. 620.
George Borgfeldt & Company, New York, N. Y. Dolls and table-favors. No. 130,465; Apr. 27; v. 273; p. 801.
Gibbs Preserving Co., Baltimore, Md. Canned vegetables. No. 130,501; Apr. 27; v. 273; p. 802.
Gibson, A. C., Company, Inc., Buffalo, N. Y. Rubber stamps and stencils. No. 130,303; Apr. 20; v. 273; p. 620.
Glessel, Henry, Co., Chicago, Ill. Dish-washing machines. No. 130,304; Apr. 20; v. 273; p. 620.
Gilbert, Frederick G., New Haven, Conn. Cigars, cigarettes, and tobacco. No. 130,065; Apr. 6; v. 273; p. 180.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 130,305; Apr. 20; v. 273; p. 620.
Gilman, Frank, Birmingham, England. Pneumatic machine-tools for cleaning boiler-plates, &c. No. 130,306; Apr. 20; v. 273; p. 620.
Given, John M., Inc., Pittsburgh, Pa., Chicago, Ill., and New York, N. Y. Children's hosiery. No. 130,307; Apr. 20; v. 273; p. 620.
Glencairn Mfg. Co., Pawtucket, R. I. Shoe, corset, underwear, and blouse lacings, galloons, and braids. No. 130,502; Apr. 27; v. 273; p. 802.
Goldman, Sigmund L., Chicago, Ill. Ginger-ale, kola, &c. No. 130,180; Apr. 13; v. 273; p. 402.
Goodwear Hosiery Co., Kenosha, Wis. Hosiery. No. 130,308; Apr. 20; v. 273; p. 620.
Goorin, Shapira & Company, Pittsburgh, Pa. Men's and children's hats and caps. No. 130,503; Apr. 27; v. 273; p. 802.
Grand Union Tea Co., Brooklyn, N. Y. Foods and ingredients of foods. No. 130,504; Apr. 27; v. 273; p. 802.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt bearing metal. No. 130,505; Apr. 27; v. 273; p. 802.
Griggs-Paxton Shoe Co., Inc., Roanoke, Va. Boots and shoes. No. 130,506; Apr. 27; v. 273; p. 802.
Groton Electrical Devices Inc., Groton, N. Y. Electrical lavatory drying-machines. No. 130,309; Apr. 30; v. 273; p. 620.
Gruenhagen's, San Francisco, Calif. Candies and chocolates. No. 130,310; Apr. 20; v. 273; p. 620.
Guinzburg, Edward A., New York, N. Y. Shoe-tongue pads. No. 130,311; Apr. 20; v. 273; p. 620.
Guinzburg, William, New York, N. Y. Heel-grips. No. 130,181; Apr. 13; v. 273; p. 402.
Gulowsen Grel Engine Co., Seattle, Wash. Internal-combustion engines. No. 130,507; Apr. 27; v. 273; p. 802.
Guthard, Edgar C., Co., Chicago, Ill. Rotary tools. No. 130,182; Apr. 13; v. 273; p. 402.
Haas, Baruch & Co., Los Angeles, Calif. Foods. No. 130,312; Apr. 20; v. 273; p. 620.
Harbert, James, Polson, Mont. Raincoats. No. 130,508; Apr. 27; v. 273; p. 802.
Hardaway-Cargill Co., Columbus, Ga. Corn and cane products syrups. No. 130,183; Apr. 13; v. 273; p. 402.
Hardin, Hamilton & Lewman, Louisville, Ky. Field-seeds. No. 130,066; Apr. 6; v. 273; p. 180.
Harrison, Benjamin V., Co., New York, N. Y. Imitation leather. No. 130,067; Apr. 6; v. 273; p. 180.
Hartman Trunk Co., Racine, Wis. Trunks. No. 130,068; Apr. 6; v. 273; p. 180.
Hatheway, Chauncey H., Greenwich, Conn. Game of the board-and-disk type. No. 130,069; Apr. 6; v. 273; p. 180.
Havana Commercial Company, New York, N. Y. Cigars. No. 130,070; Apr. 6; v. 273; p. 180.
Hawaiian Pineapple Company, Iwilei and Honolulu, Hawaii. Canned pineapple. Nos. 130,509–10; Apr. 27; v. 273; p. 802.
Hector, Pantell, Springfield, Mass. Cigars. No. 130,184; Apr. 13; v. 273; p. 402.
Heller, L., & Son, Providence, R. I. Imitation-pearl necklaces. No. 130,071; Apr. 6; v. 273; p. 180.
Hendrix, Granville L., Santa Rosa, Calif. Neckties. No. 130,313; Apr. 20; v. 273; p. 620.
Herbrand Co., The, Fremont, Ohio. Wrenches, screw-drivers, and hammers. No. 130,511; Apr. 27; v. 273; p. 803.
Hewes & Potter, Boston, Mass. Garters. No. 130,314; Apr. 20; v. 273; p. 620.
Hezel Milling Company, East St. Louis, Ill. Self-rising wheat-flour. Nos. 130,512–13; Apr. 27; v. 273; p. 803.

Hills Brothers Company, New York, N. Y. Cigarettes. No. 130,072; Apr. 6; v. 273; p. 180.
Hinck, John H., Brooklyn, N. Y. Candy. No. 130,514; Apr. 27; v. 273; p. 803.
Hinde & Dauch Paper Co., Sandusky, Delphos, and Cleveland, Ohio; Philadelphia, Pa.; New York, N. Y.; Muncie, Ind.; Gloucester, N. J., and Toronto, Canada. Cartons, boxes, shipping-envelops, &c. No. 130,185; Apr. 13; v. 273; p. 402.
Hindlemann, Harry, Inc., New York, N. Y. Men's suits and overcoats. No. 130,315; Apr. 20; v. 273; p. 621.
Hinds Luminous Compound Company, Hammersmith, London, England. Luminous hand for watches and clocks. No. 130,316; Apr. 20; v. 273; p. 621.
Hob Manufacturing Co., New York, N. Y. Clothing for infants. No. 130,515; Apr. 27; v. 273; p. 803.
Hoehne, Herman F., Kaukauna, Wis. Thistle-pulling machines. No. 130,516; Apr. 27; v. 273; p. 803.
Hollenbach, Charles, Chicago, Ill. Fresh sausage. No. 130,317; Apr. 20; v. 273; p. 621.
Hollingshead, W. R., Company, Binghamton, N. Y. Egg-substitute powder. No. 130,318; Apr. 20; v. 273; p. 621.
Hook, Evan W., & Co., Inc., Baltimore, Md. Bottled cherries, maraschino style. No. 130,319; Apr. 20; v. 273; p. 621.
Hope Webbing Company, Pawtucket, R. I. Belts, binding, textile braiding, and tape. Nos. 130,186–90; Apr. 13; v. 273; p. 402.
Hope Webbing Company, Pawtucket, R. I. Narrow belts and narrow binding for garments, belts for supporting garments, &c. Nos. 130,517–21; Apr. 27; v. 273; p. 803.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 130,073; Apr. 6; v. 273; p. 180.
Howard, Joseph O., Evanston, Ill. Toy aeroplanes. No. 130,522; Apr. 27; v. 273; p. 803.
Huntington Shoe and Leather Company, Huntington, Ind. Boots and shoes of leather, skins, hides, &c. No. 130,320; Apr. 20; v. 273; p. 621.
Hutchison Office Specialties Co. Inc., New York, N. Y. Staple forming and affixing machines, and parts. No. 130,191; Apr. 13; v. 273; p. 402.
Hygienic Fibre Company, Versailles, Conn., and New York, N. Y. Absorbent cotton, surgical gauze, gauze bandages. No. 130,074; Apr. 6; v. 273; p. 180.
Iannella, Anna, Chicago, Ill. Candy. No. 130,321; Apr. 20; v. 273; p. 621.
Imperial Belting Company, Chicago, Ill. Rubber and duck belting, and hose, rubber, flax, and asbestos machinery packing. No. 130,192; Apr. 13; v. 273; p. 402.
Imperial Garment Co., Inc., New York, N. Y. Boys' suits and overcoats. No. 130,523; Apr. 27; v. 273; p. 803.
Indian Packing Company, Green Bay, Wis. Meat products. Nos. 130,524–5; Apr. 27; v. 273; p. 803.
International Harvester Company, Chicago, Ill. Rope, cord, twine, and binder-twine. No. 130,075; Apr. 6; v. 273; p. 180.
International Merchants, Incorporated, San Francisco, Calif. Butter. No. 130,322; Apr. 20; v. 273; p. 621.
International Preserving Corporation, New York, N. Y. Preserved or prepared foods. No. 130,526; Apr. 27; v. 273; p. 803.
Irvin-Smith Company, Chicago, Ill. Box parlor game. No. 130,101; Apr. 6; v. 273; p. 181.
Johansen Brothers Shoe Company, St. Louis, Mo. Women's and children's shoes of leather and cloth and leather. No. 130,527; Apr. 27; v. 273; p. 803.
John Curtin Corp., New York, N. Y. Hammocks. No. 130,056; Apr. 6; v. 273; p. 180.
Johnson Bros. & Alexander, Chicago, Ill. Candies. No. 130,323; Apr. 20; v. 273; p. 621.
Johnson, McGarr & Warren, Philadelphia, Pa. Bridles for brooms. No. 130,193; Apr. 13; v. 273; p. 402.
Jones, Thomas W., Cincinnati, Ohio. Pressing-cloths. No. 130,194; Apr. 13; v. 273; p. 402.
Jonkopings & Vulcans Tandsticksfabrik Aktiebolag. (See Stromborg Export & Import Co. Inc., assignor.)
Jordan Marsh Company, Boston, Mass. Handkerchiefs. No. 130,324; Apr. 20; v. 273; p. 621.
Kabo Corset Company, Chicago, Ill. Sheet-metal fasteners for corsets, rubber button-bases, &c. No. 130,195; Apr. 13; v. 273; p. 402.
Kaelin, Henry, & Son, Brooklyn, N. Y; Baltimore, Md., and Habana, Cuba. Fresh vegetables. No. 130,076; Apr. 6; v. 273; p. 180.
Kaut, William, Footwear Company, Carthage, Mo. Boots, shoes, slippers, and sandals made of leather. No. 130,528; Apr. 27; v. 273; p. 803.
Kayser, Henry, & Fils, Inc., New York, N. Y. Men's women's, and children's kid gloves. No. 130,325; Apr. 20; v. 273; p. 621.
Kellogg, W. B., Co., Inc., New York, N. Y. Set and unset pearls and imitation pearls. No. 130,077; Apr. 6; v. 273; p. 180.
Kennesaw Hosiery Company, The, Marietta, Ga. Hosiery. No. 130,529; Apr. 27; v. 273; p. 803.
Khouri, E. G., & Bro., New York, N. Y. Snap-fasteners and buttons suitable for wearing-apparel. No. 130,078; Apr. 6; v. 273; p. 180.
King, Robert C., & Co., New York, N. Y. Underwear and hosiery. No. 130,326; Apr. 20; v. 273; p. 621.
King, Robert C., & Co., New York, N. Y. Underwear. No. 130,327; Apr. 20; v. 273; p. 621.
Kirschner, Jacob, Savannah, Ga. Men's overalls. Nos. 130,328–9; Apr. 20; v. 273; p. 621.
Kleckner, Philip, New York, N. Y. Vegetable food compound. No. 130,196; Apr. 13; v. 273; p. 402.
Kleine, Henry, & Co., Chicago, Ill. Leather shoes. No. 130,330; Apr. 20; v. 273; p. 621.
Knickerbocker Chocolate Company, Inc., New York, N. Y. No. 130,197; Apr. 13; v. 273; p. 402.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 130,331–2; Apr. 20; v. 273; p. 621.
Knopke, Raymond C., Chicago, Ill. Steel fenceposts. No. 130,530; Apr. 27; v. 273; p. 803.
Knowles, Taylor & Knowles Company, East Liverpool, Ohio. Table-pottery. No. 130,079; Apr. 6; v. 273; p. 180.
Knox Hat Company, Inc., New York, N. Y. Clothing. No. 130,198; Apr. 13; v. 273; p. 402.
Kobayashi, Frank T., Los Angeles, Calif. Poison foods. No. 130,080; Apr. 6; v. 273; p. 180.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Electric locomotives and tractors. No. 130,333; Apr. 20; v. 273; p. 621.
Korn, Geo. W., Razor Mfg. Co., Little Valley, N. Y. Razors. No. 130,334; Apr. 20; v. 273; p. 621.
Krause, Chas. A., Milling Co., Greenfield, Wis. Breakfast food. No. 130,531; Apr. 27; v. 273; p. 803.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Washboards. No. 130,081; Apr. 6; v. 273; p. 180.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Lamp-chimneys. No. 130,082; Apr. 6; v. 273; p. 180.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Tea, coffee, chocolate, and cocoa. No. 130,335; Apr. 20; v. 273; p. 621.
Krenning-Schlapp Grocer Company, St. Louis, Mo. Canned milk. No. 130,336; Apr. 20; v. 273; p. 621.
Lake Reedy Packing Co., Frostproof, Fla. Fresh citrus fruits. No. 130,532; Apr. 27; v. 273; p. 803.
Lake Reedy Packing Company, Frostproof, Fla. Citrus fruits. No. 130,533; Apr. 27; v. 273; p. 803.
Lake Wales Citrus Growers Association, Lake Wales, Fla. Citrus fruits. No. 130,337; Apr. 20; v. 273; p. 621.
Lamborn & Co., New York, N. Y. Textile fabrics—namely, netting and bunting and silk piece goods. No. 130,338; Apr. 20; v. 273; p. 621.
Lamborn & Co., New York, N. Y. Prepared felt roofing. No. 130,339; Apr. 20; v. 273; p. 621.
Land-Dilks Co., Richmond, Ind. Kitchen-cabinets. No. 130,534; Apr. 27; v. 273; p. 803.
Larus & Brother Company, Richmond, Va. Plug-tobacco. No. 130,083; Apr. 6; v. 273; p. 180.
Lawson & Company, Incorporated, New York, N. Y. Machinery and tools and attachments therefor. No. 130,535; Apr. 27; v. 273; p. 803.
Lennon, John F., Providence, R. I. Wheat-flour. No. 130,084; Apr. 6; v. 273; p. 180.
Lenox Jewelry Co., Boston, Mass. Horolgical instruments. No. 130,199; Apr. 13; v. 273; p. 403.
Lerner Waist Co., New York, N. Y. Clothing. No. 130,340; Apr. 20; v. 273; p. 621.
Leslie, Harry C., Denver, Colo. Butter and cheese. No. 130,536; Apr. 27; v. 273; p. 803.
Levinson, Daniel L., Chicago, Ill. Powdered preparation for making a fruit acid, and spice-flavored marmalade and jam. No. 130,341; Apr. 20; v. 273; p. 621.
Levor, Victor, Attica, Ind. Cigars. No. 130,085; Apr. 6; v. 273; p. 180.
Levy, George C., New York, N. Y. Catamenial bandage. No. 130,086; Apr. 6; v. 273; p. 180.
Levy, Joseph, Boston, Mass. Time-stamps. No. 130,537; Apr. 27; v. 273; p. 803.
Levy & Schilt, New York, N. Y. Young men's outer garments. No. 130,342; Apr. 20; v. 273; p. 621.
Levy & Schilt, New York, N. Y. Men's outer garments. No. 130,343; Apr. 20; v. 273; p. 621.
Levy, Sidney, San Francisco, Calif. Garters, armbands, &c. No. 130,200; Apr. 13; v. 273; p. 403.
Lewis, Connors & Company, Chicago, Ill. Logarithmic-scale computing devices. No. 130,344; Apr. 20; v. 273; p. 621.
Lewis, Florence N., New York, N. Y. Face-powders. No. 130,201; Apr. 13; v. 273; p. 403.
Lewis Implement and Seed Company, Louisville, Ky. Garden, vegetable, and field seeds. No. 130,202; Apr. 13; v. 273; p. 403.
Libby, McNeill & Libby, Chicago, Ill. Corned beef. No. 130,203; Apr. 13; v. 273; p. 403.
Liberty Chain Company, Aberdeen, S. D. Tire grip-chains. No. 130,345; Apr. 20; v. 273; p. 621.
Liberty Steel Products Co., New York, N. Y. Tool and gear steel. No. 130,538; Apr. 27; v. 273; p. 803.
Liggett & Myers Tobacco Company, New York, N. Y. Tobacco and cigarettes. No. 130,087; Apr. 6; v. 273; p. 180.
Light Metals Co., Roselle Park, N. J. Light-metal alloys. No. 130,539; Apr. 27; v. 273; p. 803.
Lion Knitting Mills Co., The, Cleveland, Ohio. Knitted capes and mufflers. No. 130,346; Apr. 20; v. 273; p. 621.
Lisenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 130,347; Apr. 20; v. 273; p. 622.

Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 130,088; Apr. 6; v. 273; p. 180.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 130,204; Apr. 13; v. 273; p. 403.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 130,206; Apr. 13; v. 273; p. 403.
Lockwood, John M., Jr., West Hoboken, N. J. Dolls. No. 130,089; Apr. 6; v. 273; p. 181.
Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt extract. No. 130,207; Apr. 13; v. 273; p. 403.
Loose-Wiles Biscuit Company, New York, N. Y. Cakes, wafers, crackers. Nos. 130,349–50; Apr. 20; v. 273; p. 622.
Lortex Company, New York, N. Y. Textile fabrics. No. 130,351; Apr. 20; v. 273; p. 622.
Lotus Cut Glass Company, Barnesville, Ohio. Articles formed of cut glass. No. 130,208; Apr. 13; v. 273; p. 403.
Lown, Pearl E., Oklahoma, Okla. Tire-patches. No. 130,352; Apr. 20; v. 273; p. 622.
Lustr-Ite Corporation, Brooklyn, N. Y. Nail-files, manicure-sticks, emery-boards, &c. No. 130,540; Apr. 27; v. 273; p. 803.
McKee-Hodshon & Co., New York, N. Y. Asphalt roofings. No. 130,541; Apr. 27; v. 273; p. 803.
MacDonald, Marie B., Toledo, Ohio. Corsets. No. 130,353; Apr. 20; v. 273; p. 622.
Mac-It Parts Company, Lancaster, Pa. Rivet-sets and metalworking punches. No. 130,209; Apr. 13; v. 273; p. 403.
Macy, R. H., & Co., New York, N. Y. Leather and canvas shoes. No. 130,354; Apr. 20; v. 273; p. 622.
Mandel & Cohen, New York, N. Y. Hosiery for boys and girls. No. 130,355; Apr. 20; v. 273; p. 622.
Manning, Charles E., Philadelphia, Pa. Meteorological instruments. No. 130,542; Apr. 27; v. 273; p. 804.
Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber and composition soles and shoes. No. 130,543; Apr. 27; v. 273; p. 804.
Marine Equipment & Supply Co., Philadelphia, Pa. Wood and steel shell tackle-blocks. No. 130,356; Apr. 20; v. 273; p. 622.
Marré & Company, Buenos Aires, Argentina. Cheese and butter. No. 130,357; Apr. 20; v. 273; p. 622.
Marshall Field & Company, Chicago, Ill. Pins, safety-pins, snap-fasteners, &c. No. 130,358; Apr. 20; v. 273; p. 622.
Marshall Field & Company, Chicago, Ill. Yarn. No. 130,544; Apr. 27; v. 273; p. 804.
Martin, Glenn L., Cleveland, Ohio. Automatic aircraft. No. 130,210; Apr. 13; v. 273; p. 403.
Mary's, Inc., New York, N. Y. Women's clothing. No. 130,545; Apr. 27; v. 273; p. 804.
Massachusetts Oilless Bearing Company, Worcester, Mass. Bearings for moving parts of machines. No. 130,359; Apr. 20; v. 273; p. 622.
Massachusetts Oilless Bearings Company, Worcester, Mass. Bearings for different parts of machines. No. 130,360; Apr. 20; v. 273; p. 622.
Massey-Harris Harvester Co. Inc., Batavia, N. Y. Agricultural machinery. No. 130,361; Apr. 20; v. 273; p. 622.
Mears Brothers Mfg. Co., Arkansas City, Kans. Steam-boilers. No. 130,211; Apr. 13; v. 273; p. 403.
Melvin Candy Co., Chicago, Ill. Candy. No. 130,362; Apr. 20; v. 273; p. 622.
Mendelson, Abe M., New York, N. Y. Knitted sweaters. No. 130,546; Apr. 27; v. 273; p. 804.
Menist, J., Company, New York, N. Y. Condensed skimmed milk. No. 130,363; Apr. 20; v. 273; p. 622.
Menist, J., Company Inc., New York, N. Y. Canned fruits and vegetables. No. 130,364; Apr. 20; v. 273; p. 622.
Menist, J., Company, Inc., New York, N. Y. Canned goods, jams, condensed and evaporated milk. No. 130,547; Apr. 27; v. 273; p. 804.
Metal Mending Company of America, Bayonne, N. Y. Metallic cement. No. 130,548; Apr. 27; v. 273; p. 804.
Meyer, John J., New York, N. Y. Cleaning compound. No. 130,090; Apr. 6; v. 273; p. 181.
Midwest Engine Co., Indianapolis, Ind. Tractors. No. 130,212; Apr. 13; v. 273; p. 403.
Midwest Flour & Feed Company, St. Louis, Mo. Wheat-flour, bran, middlings, &c. No. 130,549; Apr. 27; v. 273; p. 804.
Miller, Fred, Brewing Co., Milwaukee, Wis. Non-intoxicating cereal malt beverage. No. 130,213; Apr. 13; v. 273; p. 403.
Milton Brick Company, Milton, Pa. Building tile and brick, paving-brick, &c. No. 130,550; Apr. 27; v. 273; p. 804.
Milwaukee Talking Machine Manufacturing Co., Milwaukee, Wis. Phonographs and phonograph-cabinets. No. 130,091; Apr. 6; v. 273; p. 181.
Minnick, Howard B., Chicago, Ill. Toy molds. No. 130,551; Apr. 27; v. 273; p. 804.
Modernola Co., Somerset, Pa. Talking-machines. No. 130,092; Apr. 6; v. 273; p. 181.
Monopole Vineyards Corp., New York, N. Y. Maltless non-alcohol fruit beverages. No. 130,214; Apr. 13; v. 273; p. 403.
Morgan Manufacturing Company, Inc., The, Keene, N. H. Automobile specialties. No. 130,552; Apr. 27; v. 273; p. 804.
Morley Button Manufacturing Company, Portland, Me., and Boston, Mass. Non-metallic buttons. No. 130,215; Apr. 13; v. 273; p. 403.
Mount Royal Corporation, New York, N. Y. Military insignia. No. 130,093; Apr. 6; v. 273; p. 181.
Narragansett Bay Oyster Co., Providence, R. I. Fresh, dried, and canned oysters. Nos. 130,365–6; Jan. 6; v. 273; p. 622.
National Clutch Company Inc., Greenburg township, Irvington-on-Hudson, New York. Electrical appliances. No. 130,367; Apr. 20; v. 273; p. 622.
National Creosote Corporation, Oklahoma, Okla. Creosoted building material. No. 130,216; Apr. 13; v. 273; p. 403.
National Dairy Co., Toledo, Ohio. Evaporated milk. No. 130,217; Apr. 13; v. 273; p. 403.
National Enameling & Stamping Co., New York, N. Y. Tinware, galvanized and japanned ware. No. 130,553; Apr. 27; v. 273; p. 804.
National Poultry Co., Los Angeles, Calif. Dressed poultry. No. 130,368; Apr. 20; v. 273; p. 622.
National Steel & Copper Plate Co., Chicago, Ill. Metals—namely, engravers' plates in blank. No. 130,554; Apr. 27; v. 273; p. 804.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets, pillow and bolster cases. No. 130,369; Apr. 20; v. 273; p. 622.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. No. 130,370; Apr. 20; v. 273; p. 622.
Naumkeag Steam Cotton Co., Salem, Mass. Cotton piece goods. No. 130,371; Apr. 20; v. 273; p. 622.
Neptune Sea Food Co., San Diego, Calif. Canned sardines. No. 130,372; Apr. 20; v. 273; p. 622.
Neuman, David, Wilkes-Barre, Pa. Chocolate, cocoa, and powdered milk. No. 130,373; Apr. 20; v. 273; p. 622.
New Central Canning Co. Inc. New Orleans, La. Tomato paste. No. 130,374; Apr. 20; v. 273; p. 622.
New England Felt Roofing Works, Boston, Mass. Roofing products. No. 130,375; Apr. 20; v. 273; p. 622.
New Jersey Cutlery Co. Inc., Newark, N. J. Pocket-knives and meat-carving sets. No. 130,376; Apr. 20; v. 273; p. 622.
New Merlin Cycle Co., Ltd., The, Birmingham, England. Motor-cars. No. 130,218; Apr. 13; v. 273; p. 403.
Nicholas Power Company, Inc. New York, N. Y. Electric motors. No. 130,555; Apr. 27; v. 273; p. 804.
Nickey Brothers, Inc., Binghamton, Tenn. Lumber and veneers. No. 130,219; Apr. 13; v. 273; p. 403.
Noma Motor Corporation, New York, N. Y. Automobiles and automobile-bodies. No. 130,377; Apr. 20; v. 273; p. 622.
Norman Bros. & Berliant, Inc., Chicago, Ill. Fruit preserves. No. 130,556; Apr. 27; v. 273; p. 804.
North and Judd Manufacturing Company, New Britain, Conn. Belt, shoe, and fob buckles, slipper-slides. No. 130,557; Apr. 27; v. 273; p. 804.
Northern Waste Co., Boston, Mass. Cotton-waste. No. 130,094; Apr. 6; v. 273; p. 181.
Nulomoline Company, The, New York, N. Y. Table-syrup. No. 130,378; Apr. 20; v. 273; p. 622.
Oberman, D. M., Manufacturing Company, Jefferson City, Mo. Work-clothing—namely, overalls, shirts, pants, jumpers. No. 130,558; Apr. 27; v. 273; p. 804.
Ochs & Frank, Baltimore, Md. Ladies' waists and dresses. No. 130,379; Apr. 20; v. 273; p. 622.
Ogus, Rabinovich & Ogus Company, Chicago, Ill. Women's hats. No. 130,380; Apr. 20; v. 273; p. 622.
Omaha Flour Mills Co., Omaha, Nebr. Flour. No. 130,220; Apr. 13; v. 273; p. 403.
O'Malley-Beare Valve Co., Chicago, Ill. Valves for general use and parts thereof. No. 130,381; Apr. 20; v. 273; p. 623.
Omo Mfg. Co., Middletown, Conn. Sanitary belts, aprons, and gum-tissue for surgical purposes. Nos. 130,097–8; Apr. 6; v. 273; p. 181.
Oneida Community Limited, Oneida, N. Y. Flat-ware plated with precious metal. No. 130,382; Apr. 20; v. 273; p. 623.
Orkin, Samuel, Company, Cambridge, Mass. Mechanical toys. No. 130,099; Apr. 6; v. 273; p. 181.
Outerbridge, Theodore, Sunnylands, Bermuda. Lily-bulbs. No. 130,100; Apr. 6; v. 273; p. 181.
Owensboro Products Company, Owensboro, Ky. Stock feed. No. 130,383; Apr. 20; v. 273; p. 623.
Park, James D., Chicago, Ill. Tractors and tractor parts. No. 130,384; Apr. 20; v. 273; p. 623.
Pascall, James, Ltd., London, England. Boiled sugar-drops, bonbons, &c. No. 130,221; Apr. 13; v. 273; p. 403.
Patterson, M. F., Dental Supply Company, Chicago, Ill., and St. Paul, Minn. Alloy for metal for dental inlays and bridgework. No. 130,095; Apr. 6; v. 273; p. 181.
Pearl City Fruit Co. Ltd., Honolulu, Hawaii. Pineapple jelly. No. 130,559; Apr. 27; v. 273; p. 804.
Pewelco Sales Co., Seattle, Wash. Electric water-heaters. No. 130,385; Apr. 20; v. 273; p. 623.
Pfrenger, J., Sons, Brooklyn, N. Y. Gymnasium-bloomers. No. 130,386; Apr. 20; v. 273; p. 623.
Phillips-Doscher Corporation, New York, N. Y. Sweaters. No. 130,387; Apr. 20; v. 273; p. 623.
Phoenix Glass Company, Pittsburgh, Pa. Glass lighting-fixtures. No. 130,222; Apr. 13; v. 273; p. 403.
Phoenix-Hermetic Company, Chicago, Ill. Glass jars. No. 130,223; Apr. 13; v. 273; p. 403.
Phoenix Horse Shoe Co., Chicago, Ill. Metal horse and mule shoes. No. 130,102; Apr. 6; v. 273; p. 181.

Pianissimo Player Action Co., Camden, N. J., and Philadelphia, Pa. Phonograph-cabinets. No. 130,096; Apr. 6; v. 273; p. 181.
Piedmont Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 130,388; Apr. 20; v. 273; p. 623.
Pillsbury Flour Mills Company, Minneapolis, Minn. Buckwheat pancake-flour, wheat cereal, pancake-flour, and health-bran. No. 130,389; Apr. 20; v. 273; p. 623.
Pioneer Broom Company, Inc., Amsterdam, N. Y. Brooms. No. 130,103; Apr. 6; v. 273; p. 181.
Plainwell Canning & Preserving Company, Plainwell, Mich. Certain named foods. No. 130,224; Apr. 13; v. 273; p. 403.
Plummer, A. Buckland, Chicago, Ill. Foot-pads. No. 130,390; Apr. 20; v. 273; p. 623.
Poland Export Corporation, New York, N. Y. Cigarettes, cigars, smoking and chewing tobacco. No. 130,104; Apr. 6; v. 273; p. 181.
Potter, Joseph, Birmingham, England. Safety-razors. No. 130,560; Apr. 27; v. 273; p. 804.
Powdered Coal Engineering & Equipment Company, Chicago, Ill. Powdered fuel made of coal. No. 130,225; Apr. 13; v. 273; p. 403.
Probst, Emil, Brooklyn, N. Y. Icing for cake and bread. No. 130,226; Apr. 13; v. 273; p. 403.
Quinby, W. S., Company, Boston, Mass. Tea. No. 130,227; Apr. 13; v. 273; p. 403.
Realart Pictures Corporation, New York, N. Y. Motion-picture films. No. 130,391; Apr. 20; v. 273; p. 623.
Reed & Prince Manufacturing Company, Worcester, Mass. Screws, bolts, nuts, &c. No. 130,561; Apr. 27; v. 273; p. 804.
Reiner, Max V., South Bethlehem, Pa. Telephone-receiver supports. No. 130,392; Apr. 20; v. 273; p. 623.
Reizenstein, Emile, Waltham, Mass. Plastic composition for modeling. No. 130,393; Apr. 20; v. 273; p. 623.
Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Shoe-soles of rubber and fiber. No. 130,394; Apr. 20; v. 273; p. 623.
Rice Cereal Company, New Haven, Ind. Wheat-flour. No. 130,228; Apr. 13; v. 273; p. 403.
Richards & Brennan Co., Randolph, Mass. Men's and women's boots and shoes. No. 130,562; Apr. 27; v. 273; p. 804.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Maltless beverages. No. 130,229; Apr. 13; v. 273; p. 403.
Ries, Jacob, Bottling Works, Inc., Shakopee, Minn. Beverages. No. 130,563; Apr. 27; v. 273; p. 804.
Riesener Chocolate Co., San Francisco, Calif. Chocolate candy. No. 130,564; Apr. 27; v. 273; p. 804.
Robinson Milling Co., Salina, Kans. Wheat-flour. No. 130,230; Apr. 13; v. 273; p. 403.
Rodenberg, M. S. Co., Providence, R. I. Neck-chains, watch-chains, and swivels for such chains. No. 130,105; Apr. 6; v. 273; p. 181.
Roe, A. V., & Co., Ltd., Manchester, England. Cover-clips, strut-sockets, &c., for aircraft, aircraft-seats. No. 130,231; Apr. 13; v. 273; p. 403.
Roe, A. V., & Co., Ltd., Manchester, England. Aeroplanes and parts, air-screws, &c. No. 130,395; Apr. 20; v. 273; p. 623.
Rogers Company, Tacoma, Wash. Coffee. No. 130,396; Apr. 20; v. 273; p. 623.
Rolls-Royce, Limited, Derby, England. Internal-combustion engines. No. 130,232; Apr. 13; v. 273; p. 403.
Rosenbaum, Samuel, & Sons Company, Kalamazoo, Mich. Trousers. No. 130,565; Apr. 27; v. 273; p. 804.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 130,566; Apr. 27; v. 273; p. 804.
Rosenbrook, August C., Madison, Wis. Valve-lifting tools for internal-combustion engines. No. 130,397; Apr. 20; v. 273; p. 623.
Ruch, Hollister M. J., Syracuse, N. Y. Card game. No. 130,567; Apr. 27; v. 273; p. 804.
Rudin, Emil A., Toronto, Ontario, Canada. Package-binders and parts thereof. No. 130,106; Apr. 6; v. 273; p. 181.
Ruedy Bros., Dover, Ohio. Coffee. No. 130,233; Apr. 13; v. 273; p. 404.
Rueppel-Jones Importing Company, Inc., New York, N. Y. Sardines. No. 130,568; Apr. 27; v. 273; p. 804.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 130,234; Apr. 13; v. 273; p. 404.
Russell Sales Co., Newark, N. J. Automobile-steering-post-locking devices. No. 130,398; Apr. 20; v. 273; p. 623.
Ryan Fruit Company, Seattle, Wash. Fresh citrus fruits. No. 130,399; Apr. 20; v. 273; p. 623.
Safepack Mills, Boston, Mass. Composition roofing in rolls and composition roofing shingles. Nos. 130,400–1; Apr. 20; v. 273; p. 623.
Salisbury, Howard F., Providence, R. I. Yarn. No. 130,569; Apr. 27; v. 273; p. 804.
Sammel, Fred S., Bedford, Pa. Phonographs and talking-machines. No. 130,402; Apr. 20; v. 273; p. 623.
Sauer, C. F., Co., Richmond, Va. Flavoring extracts. No. 130,403; Apr. 20; v. 273; p. 623.
Scallan Supply Company, Cincinnati, Ohio. Fire-extinguishing syringes. No. 130,570; Apr. 27; v. 273; p. 804.
Schmick, Carrie R., Beach Cliff, Rocky River, Ohio. One-piece dresses and aprons. No. 130,571; Apr. 27; v. 273; p. 804.
Schmitz, John, Cleveland, Ohio. Washing fluid. No. 130,405; Apr. 20; v. 273; p. 623.
Schoenhofen Company, Chicago, Ill. Non-alcoholic maltless beverages, syrups, &c. No. 130,572; Apr. 27; v. 273; p. 804.
Schoenhofen Company, Chicago, Ill. Non-alcoholic maltless beverages. No. 130,573; Apr. 27; v. 273; p. 804.
Schroeder Headlight & Generator Co., Evansville, Ind. Electric headlights and turbo-generators. Nos. 130,406–7; Apr. 20; v. 273; p. 623.
Schroeder & Tremayne, St. Louis, Mo. Sponges and chamois. No. 130,107; Apr. 6; v. 273; p. 181.
Schussler, M., & Co., San Francisco, Calif. Watches. No. 130,408; Apr. 20; v. 273; p. 623.
Seamans & Cobb Co., Boston, Mass. Cotton sewing-threads. No. 130,404; Apr. 20; v. 273; p. 623.
Sears, Roebuck & Company, Chicago, Ill. Sole-leather. No. 130,108; Apr. 6; v. 273; p. 181.
Seidenberg, R. J., Co., Buffalo, N. Y. Cigars, cigarettes, and smoking and chewing tobacco. No. 130,109; Apr. 6; v. 273; p. 181.
Shaler, C. A., Company, Waupun, Wis. Lenses for automobile-headlights. No. 130,235; Apr. 13; v. 273; p. 404.
Shannon, Robert J., Toronto, Ontario, Canada. Plumbers' and steam-fitters' supplies. No. 130,574; Apr. 27; v. 273; p. 805.
Simmons Hardware Company, St. Louis, Mo. Shaving-brushes. No. 130,110; Apr. 6; v. 273; p. 181.
Simonson, A., New York, N. Y. Toilet preparations. No. 130,111; Apr. 6; v. 273; p. 181.
Simpson Bros. Corporation, Boston, Mass. Bituminous pavements. No. 130,236; Apr. 13; v. 273; p. 404.
Singer, Samuel A., Boston, Mass. Garments for men, women, and children. No. 130,576; Apr. 27; v. 273; p. 805.
Single, John, Syracuse, N. Y. Paper bags. No. 130,112; Apr. 6; v. 273; p. 181.
Slatedale Knitting Mills, Harrisburg, Pa. Hose for men, women, and children. Nos. 130,409–10; Apr. 20; v. 273; p. 623.
Small, Hugh C., Chicago, Ill. Candy. No. 130,411; Apr. 20; v. 273; p. 623.
Smallwood, Beatrice, Washington, D. C. Preserved fruits. No. 130,577; Apr. 27; v. 273; p. 805.
Smith, Joseph N., & Company, Detroit, Mich. Automobile accessories. No. 130,578; Apr. 27; v. 273; p. 805.
Southern Candy Company, Tampa, Fla. Candies. No. 130,113; Apr. 6; v. 273; p. 181.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Automobiles, automobile-bodies, motor-trucks, truck-trailers. No. 130,114; Apr. 6; v. 273; p. 181.
Southern Motor Manufacturing Association, Ltd., Houston, Tex. Tractors. No. 130,115; Apr. 6; v. 273; p. 181.
Spartan Manufacturing Company, Dayton, Ohio. Shop-aprons, overalls, jackets, utility-suits. No. 130,579; Apr. 27; v. 273; p. 805.
Spencer, George, & Co., Lutterworth, England. Clothing. No. 130,580; Apr. 27; v. 273; p. 805.
Sperry Flour Company, San Francisco, Calif. Wheat-flour. No. 130,412; Apr. 20; v. 273; p. 623.
Spiropoulos, Basil J., New York, N. Y. Olive-oil. No. 130,237; Apr. 13; v. 273; p. 404.
Standard Corset Company, Newark, N. J. Corsets. No. 130,413; Apr. 20; v. 273; p. 623.
Standard Kid Manufacturing Company, Boston, Mass. Upper-leathers. No. 130,414; Apr. 20; v. 273; p. 624.
Standard Steel Corp., Milwaukee, Wis. Chemical closets. No. 130,116; Apr. 6; v. 273; p. 181.
Standard Tent & Awning Co., The, Toledo, Ohio. Overalls. No. 130,415; Apr. 20; v. 273; p. 624.
Standard Tobacco Company, Incorporated, New York, N. Y. Chewing and smoking tobacco. No. 130,581; Apr. 27; v. 273; p. 805.
Stanley Works, New Britain, Conn. Buckles. No. 130,117; Apr. 6; v. 273; p. 181.
Star Bedding Company, St. Louis, Mo. Feathers. No. 130,416; Apr. 20; v. 273; p. 624.
Stein, A., & Company, Chicago, Ill. Garters, hose-supporters, and armbands. No. 130,238; Apr. 13; v. 273; p. 404.
Sterling Products Co., Evansville, Ind. Catsup, canned vegetables and fruits. No. 130,417; Apr. 20; v. 273; p. 624.
Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps. No. 130,418; Apr. 20; v. 273; p. 624.
Stewart, Floyd J., Centerville, Iowa. Leather and fabric leggins. No. 130,419; Apr. 20; v. 273; p. 624.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Warning-signals. No. 130,118; Apr. 6; v. 273; p. 181.
Stieglitz, A., & Co. Inc., New York, N. Y. Hosiery. No. 130,582; Apr. 27; v. 273; p. 805.
Stine Screw Holes Company, Waterbury, Conn. Anchor-sockets for screws. No. 130,420; Apr. 20; v. 273; p. 624.
St. Louis Food Products Company, St. Louis, Mo. Prepared compressed soup. No. 130,583; Apr. 27; v. 273; p. 805.
Story & Clark Piano Company, Chicago, Ill. Pianos, piano-players, and organs. Nos. 130,019–20; Apr. 6; v. 273; p. 181.

Stromberg Export & Import Co., Inc., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabrik, Jönköping, Sweden. Matches. Nos. 130,121–8; Apr. 6; v. 273; p. 182.

Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 130,421; Apr. 20; v. 273; p. 624.

Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 130,584; Apr. 27; v. 273; p. 805.

Sullivan, Henry C., Hertford, N. C. Shelled and unshelled peanuts. No. 130,422; Apr. 20; v. 273; p. 624.

Talbert-Whitmore Company, Los Angeles, Calif. Shadecloth. No. 130,423; Apr. 20; v. 273; p. 624.

Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Children's and men's cloth caps. No. 130,425; Apr. 20; v. 273; p. 624.

Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Children's and men's cloth hats and children's caps. No. 130,426; Apr. 20; v. 273; p. 624.

Tobias, Chas., Bro. & Company, Cincinnati, Ohio. Men's and children's hats. No. 130,427; Apr. 20; v. 273; p. 624.

Toledo Cooker Company, Toledo, Ohio. Steam-cookers. No. 130,585; Apr. 27; v. 273; p. 805.

Tolerton & Warfield Co., Sioux City, Iowa. Foods. No. 130,239; Apr. 13; v. 273; p. 404.

Tolerton & Warfield Co., Sioux City, Iowa. Rice, pickles, and olives. No. 130,424; Apr. 20; v. 273; p. 624.

Tri-City Sales Company, Cincinnati, Ohio. Confectionery. No. 130,129; Apr. 6; v. 273; p. 182.

Tubbs Cordage Company, San Francisco, Calif. Rope. No. 130,130; Apr. 6; v. 273; p. 182.

U. S. Toy & Novelty Co., New York, N. Y. Dolls and toy animals. No. 130,132; Apr. 6; v. 273; p. 182.

Ultramares Corporation, New York, N. Y. Leather. No. 130,240; Apr. 13; v. 273; p. 404.

Ultramares Corporation, New York, N. Y. Dress-fasteners. No. 130,241; Apr. 13; v. 273; p. 404.

Ultramares Corporation, New York, N. Y. Building-cement. No. 130,242; Apr. 13; v. 273; p. 404.

Union Auto Specialties Co., San Francisco, Calif. Autolenses. No. 130,429; Apr. 20; v. 273; p. 624.

Union Pacific Tea Co., New York, N. Y. Foods. No. 130,428; Apr. 20; v. 273; p. 624.

Union Smelting & Refining Co., Inc., Newark, N. J. Anti-friction bearing metals. No. 130,586; Apr. 27; v. 273; p. 805.

United Brush Manufactories, New York, N. Y. Paint and varnish brushes. No. 130,131; Apr. 6; v. 273; p. 182.

United Brush Manufactories, New York, N. Y. Brushes used as sash-tools. No. 130,243; Apr. 13; v. 273; p. 404.

United States Trading Corporation, San Francisco, Calif. Canned fruits. No. 130,587; Apr. 27; v. 273; p. 805.

Universal Products Co., Kansas City, Mo. Chewing-gum. No. 130,588; Apr. 27; v. 273; p. 805.

Vanity Fair Silk Mills, Reading, Pa. Hosiery. No. 130,430; Apr. 20; v. 273; p. 624.

Van Namee, Allison K., Indianapolis, Ind. Spark-intensifiers. No. 130,431; Apr. 20; v. 273; p. 624.

Velie Motors Corporation, Moline, Ill. Internal-combustion motor-tractors. No. 130,589; Apr. 27; v. 273; p. 805.

Voss Bros. Manufacturing Co., Davenport, Iowa. Laundry-washing machines. No. 130,133; Apr. 6; v. 273; p. 182.

Wahl Company, The, Chicago, Ill. Fountain-pens and parts thereof. No. 130,432; Apr. 20; v. 273; p. 624.

Wainwright, A. B., Company, Philadelphia, Pa. Prepared roofings. No. 130,433; Apr. 20; v. 273; p. 624.

Waldes & Co., Prague, Bohemia. Portable cigarette-makers and cigarette-tubes. No. 130,134; Apr. 6; v. 273; p. 182.

Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions, &c. No. 130,434; Apr. 20; v. 273; p. 624.

Waldes & Co., Prague, Bohemia. Placket-fasteners, glove-fasteners, buttons, clasps. No. 130,435; Apr. 20; v. 273; p. 624.

Waldes & Co., Prague, Bohemia. Fancy goods, furnishings, and notions. No. 130,436; Apr. 20; v. 273; p. 624.

Walker, Hiram, & Sons Metal Products, Limited, Walkerville, Ontario, Canada. Heat-resisting castings. No. 130,590; Apr. 27; v. 273; p. 805.

Walsh, Thomas A., Yonkers, N. Y. Bacteriological culture of Bacillus bulgaricus for diarrhea in chicks and fowls. No. 130,245; Apr. 13; v. 273; p. 404.

Waltham Watch Company, Waltham, Mass. Watch materials, watches, watch-cases. No. 130,437; Apr. 20; v. 273; p. 624.

Warner Bros. Co., Bridgeport, Conn. Hose-supporters. No. 130,438; Apr. 20; v. 273; p. 624.

Warner Lenz Company, (now by change of name Warner-Patterson Company,) Chicago, Ill. Light refracting or diffusing glasses for headlights. No. 130,246; Apr. 13; v. 273; p. 404.

Warner-Patterson Company. (See Warner Lenz Company.)

Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 130,439; Apr. 20; v. 273; p. 624.

Washer Maid Company, Chicago, Ill. Soap. No. 130,135; Apr. 6; v. 273; p. 182.

Waterloo Canning Association, Waterloo, Wis. Canned corn and canned peas. No. 130,440; Apr. 20; v. 273; p. 624.

Wenzelmann, Gustave, Galesburg, Ill. Sectional buildings ready cut, assembled into sections, and portable. No. 130,591; Apr. 27; v. 273; p. 805.

Werner, William, New York, N. Y. Cigars and cigarettes. No. 130,136; Apr. 6; v. 273; p. 182.

Wertheimer Bros., New York, N. Y. Silk and velvet ribbons. No. 130,442; Apr. 20; v. 273; p. 624.

Wertheimer, N., & Sons, Ligonier, Ind. Field-seeds. No. 130,441; Apr. 20; v. 273; p. 624.

Western Newspaper Union, Omaha, Nebr. Bond-paper. No. 130,137; Apr. 6; v. 273; p. 182.

Western Reserve Rubber Co., Kenmore, Ohio. Rubber toy balloons. No. 130,592; Apr. 27; v. 273; p. 805.

White, Frank O., Belleville, Ill. Metal, wicker leather, &c., lounges and vehicle-seats. No. 130,138; Apr. 6; v. 273; p. 182.

Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 130,443; Apr. 20; v. 273; p. 624.

Whiting Paper Company, Holyoke, Mass. Ledger-paper, bond and linen writing-paper, and mailing-envelops. No. 130,444; Apr. 20; v. 273; p. 624.

Whitlock Cordage Co., New York, N. Y. Manila rope. No. 130,139; Apr. 6; v. 273; p. 182.

Whittemore Brothers' Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. No. 130,594; Apr. 27; v. 273; p. 805.

Whittle & Mutch, Philadelphia, Pa. Non-alcoholic non-cereal maltless beverages and syrups, colors, and flavors. No. 130,247; Apr. 13; v. 273; p. 404.

Wight Investment Company, The, Denver, Colo. Carburetors and mixing-manifolds for internal-combustion engines. No. 130,248; Apr. 13; v. 273; p. 404.

Wilberite Roofing Company, Cleveland, Ohio. Prepared roofing. No. 130,445; Apr. 20; v. 273; p. 624.

Wiley-Bickford-Sweet Co., Worcester, Mass. Leather, silk, &c., slippers. No. 130,593; Apr. 27; v. 273; p. 805.

Wilson & Co., Inc., Chicago, Ill. Foods. No. 130,446; Apr. 20; v. 273; p. 624.

Winchester Repeating Arms Co., New Haven, Conn. Paper shot-shells. No. 130,140; Apr. 6; v. 273; p. 182.

Windle, Randolph T., New York, N. Y. Hand bilge-water pumps for boats. No. 130,447; Apr. 20; v. 273; p. 625.

Winslow, Alfred F., New York, N. Y. Metal discount-check. No. 130,249; Apr. 13; v. 273; p. 404.

Winter, Michael, Orange, N. J. Non-alcoholic beverages. No. 130,250; Apr. 13; v. 273; p. 404.

Winther Motor Truck Company, Kenosha, Wis. Motor-trucks. No. 130,448; Apr. 20; v. 273; p. 625.

Worcester, Walden, Inc., Worcester, Mass. Wrenches. No. 130,244; Apr. 13; v. 273; p. 404.

Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 130,595; Apr. 27; v. 273; p. 805.

Yankee Battery Manufacturing Co., San Diego, Calif. Storage batteries. No. 130,449; Apr. 20; v. 273; p. 625.

Zagoren, Samuel, Brooklyn, N. Y. Naval uniforms. No. 130,450; Apr. 20; v. 273; p. 625.

Zieseniss, Arthur W., Rolla, Mo. Waterproofing-oils for leather. No. 130,141; Apr. 6; v. 273; p. 182.

Zweibach, Albert, New York, N. Y. Polish for furniture, automobiles, and other varnished surfaces. No. 130,251; Apr. 13; v. 273; p. 404.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

American Biscuit Company, Chicago, Ill. "White Top." (For Marshmallow Creme Preparation.) No. 21,844; Apr. 27; v. 273; p. 806.

Bailey, B. F., & Co., New York, N. Y. "Novelite Spreads." (For Bedspreads.) No. 21,777; Apr. 13; v. 273; p. 405.

Baker, R. W., San Jose, Calif. "Panama Soap." (For Soap.) No. 21,805; Apr. 20; v. 273; p. 627.

Barlow-Kimnet Co., The, New York, N. Y. "Barlow-Kimnet." (For Metal and Wood Display Wax Figures, Forms, and Store-Display Equipment.) No. 21,806; Apr. 20; v. 273; p. 627.

Baumann, Martha G., Orange, N. J. "Peggy Peach Doll Outfit." (For a Material for Doll-Dresses.) No. 21,845; Apr. 27; v. 273; p. 806.

Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Licorice." (For Licorice Tablets.) No. 21,807; Apr. 20; v. 273; p. 627.

Bowman, Joseph A., Columbus, Ohio. "Bowman's Nu-Lik-Brand Auto Finishes Eclipse Auto-Top Waterproofing." (For a Dressing.) No. 21,808; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Hair Grower." (For a Hair-Grower.) No. 21,809; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Pressing Oil." (For a Hair-Dressing.) No. 21,810; Apr. 20; v. 273; p. 627.

Brookins, Mrs. May Louise, Okmulgee, Okla. "Lou-Au-Gene Skin Bleach." (For a Cream for Bleaching the Skin.) No. 21,811; Apr. 20; v. 273; p. 627.

Cargill, J. Ralston, Americus, Ga. "Cream of Cane." (For Syrup.) No. 21,812; Apr. 20; v. 273; p. 627.

Ceitlin, Samuel, Philadelphia, Pa. "Odorlac Foot-Ease Powder Co." (For a Foot-Powder.) No. 21,813; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Lime Charms." (For Fruit Tablets—Namely, Charms, Lime Flavor.) No. 21,814; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Wild Cherry Charms." (For Fruit Tablets—Namely, Charms, Wild-Cherry Flavor.) No. 21,815; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Lemon Charms." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) No. 21,816; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Grape Charms." (For Fruit Tablets—Namely, Charms, Grape Flavor.) No. 21,817; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Clove Charms." (For Fruit Tablets—Namely, Charms, Clove Flavor.) No. 21,818; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Peach Charms." (For Fruit Tablets—Namely, Charms, Peach Flavor.) No. 21,819; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Orange Charms." (For Fruit Tablets—Namely, Charms, Orange Flavor.) No. 21,820; Apr. 20; v. 273; p. 627.

Charms Company, Newark, N. J. "Horehound Charms." (For Fruit Tablets—Namely, Charms, Hoarhound Flavor.) No. 21,846; Apr. 27; v. 273; p. 806.

Charms Company, Newark, N. J. "Assorted Charms." (For Fruit Tablets—Namely, Charms, Assorted Flavors.) No. 21,847; Apr. 27; v. 273; p. 806.

Charms Company, Newark, N. J. "Raspberry Charms." (For Fruit Tablets—Namely, Charms, Raspberry Flavor.) No. 21,848; Apr. 27; v. 273; p. 806.

Charms Company, Newark, N. J. "Butter Charms." (For Fruit Tablets—Namely, Charms, Butter Flavor.) No. 21,849; Apr. 27; v. 273; p. 806.

Cloud-Thomas Co., Yakima, Wash. "Yakival." (For Apples.) No. 21,821; Apr. 20; v. 273; p. 627.

Connor, C. A., Ice Cream Company, Owosso, Mich. "Cherry-Tang." (For Cherry-Syrup.) No. 21,766; Apr. 6; v. 273; p. 183.

Connor, C. A., Ice Cream Company, Owosso, Mich. "Grape-Tang." (For Grape-Syrup.) No. 21,767; Apr. 6; v. 273; p. 183.

Connor, C. A., Ice Cream Company, Owosso, Mich. "Orange-Tang." (For Orange-Syrup.) No. 21,768; Apr. 6; v. 273; p. 183.

Cowan, Earl, Co., Inc., Los Angeles, Calif. "Cowan's Preferred Coffee." (For Coffee.) No. 21,778; Apr. 13; v. 273; p. 405.

Dwinell-Wright Company, Boston, Mass. "Falls." (For Coffee.) No. 21,779; Apr. 13; v. 273; p. 405.

Dwinell-Wright Company, Boston, Mass. "Star & Crescent." (For Coffee.) No. 21,780; Apr. 13; v. 273; p. 405.

Dwinell-Wright Company, Boston, Mass. "School House." (For Coffee.) No. 21,781; Apr. 13; v. 273; p. 405.

Ex-Zact Food Products Co., Milwaukee, Wis. "The Drink that Kept Milwaukee Famous." (For Fruit Nectar.) No. 21,782; Apr. 13; v. 273; p. 405.

Fisher, William J., & Co., Boston, Mass. "Fisher's W J F." (For Cigars.) No. 21,822; Apr. 20; v. 273; p. 627.

Gary, Theo. H., Co., New York, N. Y. "The Finishing Touch." (For Unicum Hair-Nets.) No. 21,823; Apr. 20; v. 273; p. 627.

Graef & Russell, New York, N. Y. "The Fly Catcher U-Hang-Up." (For Fly Catchers of Paper-Ribbon type.) No. 21,783; Apr. 13; v. 273; p. 405.

Graves, Clarence D., Springfield, Ill. "Liksom Delicious Bread." (For Bread.) No. 21,824; Apr. 20; v. 273; p. 627.

Handler, Jacob, Brooklyn, N. Y. "J. Handler Lacoin." (For Stains and Varnishes.) No. 21,784; Apr. 13; v. 273; p. 405.

Hartford Metal Products Company, The, Hartford, Conn. "Xtra-Good." (For Automobile-Trie Pumps.) No. 21,850; Apr. 27; v. 273; p. 806.

International Company, The, Baltimore, Md. "Quick Whip." (For an Egg Product.) No. 21,785; Apr. 13; v. 273; p. 405.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Thrift." (For Paint.) No. 21,825; Apr. 20; v. 273; p. 627.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Shredded Krumbles." (For Shredded Krumbles.) No. 21,786; Apr. 13; v. 273; p. 405.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Roasted Korn Krisp." (For Roasted Korn Krisp.) No. 21,787; Apr. 13; v. 273; p. 405.

Keystone Fruit Products Co., Cincinnati, Ohio. "Keystone Brand." (For Cherries.) No. 21,788; Apr. 13; v. 273; p. 405.

Krantz Products Company, The, Findlay, Ohio. "Old Dutch." (For Non-Intoxicating Cereal Beverage.) No. 21,789; Apr. 13; v. 273; p. 405.

Krejder Auto Needs Co., Reading, Pa. "Tube-Lock." (For Patches for Rubber Tires, &c.) No. 21,826; Apr. 20; v. 273; p. 627.

Lake Reedy Packing Company, Frostproof, Fla. "Supreme." (For Oranges, Grape-Fruit, and Tangerines.) No. 21,827; Apr. 20; v. 273; p. 627.

Lake Reedy Packing Company, Frostproof, Fla. "Monte Carlo Brand." (For Oranges, Grape-Fruit, and Tangerines.) No. 21,828; Apr. 20; v. 273; p. 627.

Lares, B. V., Minneapolis, Minn. "69." (For a Medicine.) No. 21,829; Apr. 20; v. 273; p. 627.

Laske, Julius, New Haven, Conn. "Laske's Natural Leaf Clippings." (For Tobacco-Clippings.) No. 21,830; Apr. 20; v. 273; p. 627.

La Tosca Knitting Co., Utica, N. Y. "La Tosca Sleepers." (For Children's Sleeping-Garments.) Nos. 21,769–70; Apr. 6; v. 273; p. 183.

Lynchburg Shoe Company, Lynchburg, Va. "Workmanship, Quality, Service." (For Boots and Shoes.) No. 21,771; Apr. 6; v. 273; p. 183.

Magnolia Cigar Company, Brooklyn, N. Y. "Magnolia." (For Cigars.) No. 21,790; Apr. 13; v. 273; p. 405.

Mandabach, Peter A., Chicago, Ill. "Mentho-Malted Horehound Kisses." (For Hoarhound Kisses.) No. 21,791; Apr. 13; v. 273; p. 405.

Mandabach, Peter A., Chicago, Ill. "Laxative Chocolate Bar." (For Laxative Chocolate Bars.) No. 21,792; Apr. 13; v. 273; p. 405.

Mandabach, Peter A., Chicago, Ill. "Charcoal Tooth Paste." (For Tooth-Paste.) No. 21,793; Apr. 13; v. 273; p. 405.

Middletown Packing Co., Middletown, Md. "Mid-Valley Brand Maine Style Sweet Corn." (For Sweet Corn.) No. 21,831; Apr. 20; v. 273; p. 627.

Milwaukee Paper Box Company, Milwaukee, Wis. "Candies." (For Candy.) No. 21,794; Apr. 13; v. 273; p. 405

Milwaukee Paper Box Company, Milwaukee, Wis. "Goodies." (For Candy.) No. 21,832; Apr. 20; v. 273; p. 627.

Mohawk Valley Cap Factory, Utica, N. Y. "Mohawk Knit Caps." (For Knitted Caps.) No. 21,772; Apr. 6; v. 273; p. 183.

Mohawk Valley Cap Factory, Utica, N. Y. "Mohawk Sweaters." (For Sweaters.) No. 21,773; Apr. 6; v. 273; p. 183.

National Canners Association, Washington, D. C. "Canned Food—the Miracle on Your Table." (For Canned Goods.) No. 21,774; Apr. 6; v. 273; p. 183.

Northwest Evaporating Company, Cashmere, Wash. "Evaporated Washington Apples." (For Evaporated Apples.) No. 21,795; Apr. 13; v. 273; p. 405.

Pacific Fruit & Produce Co., Portland, Oreg. "State Seal Brand." (For Fresh Apples.) No. 21,851; Apr. 27; v. 273; p. 806.

Putnam, Alfred, & Company, New York, N. Y. "Thurber's Windham Corn." (For Canned Corn.) No. 21,796; Apr. 13; v. 273; p. 405.

Putnam, Alfred, & Company, New York, N. Y. "Thurber's Bartlett Pears." (For Canned Bartlett Pears.) No. 21,797; Apr. 13; v. 273; p. 405.

Roberts, G. H., San Francisco, Calif. "Roberts Turkey Brand Corned Meats." (For Cooked Corned Meats.) No. 21,834; Apr. 20; v. 273; p. 627.
Ryan Fruit Co., Seattle, Wash. "Chief Joseph." (For Fresh Fruits.) No. 21,835; Apr. 20; v. 273; p. 627.
Ryan Fruit Co., Seattle, Wash. "100%." (For Oranges.) No. 21,836; Apr. 20; v. 273; p. 627.
Saniwax Paper Co., Kalamazoo, Mich. "Baker's Pride." (For Bread.) No. 21,837; Apr. 20; v. 273; p. 627.
Shine-Easy Shoe Polish Company, Chicago, Ill. "Jetto Black Dye." (For Black Dyes.) No. 21,798; Apr. 13; v. 273; p. 405.
Shine-Easy Shoe Polish Company, Chicago, Ill. "Shine-Easy Shoe Polish." (For Shoe-Polish.) No. 21,799; Apr. 13; v. 273; p. 405.
Smith, E. A., Tifton, Ga. "Smith's Hand-Made Candy." (For Candy.) No. 21,839; Apr. 20; v. 273; p. 627.
Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Mustard Dressing." (For Sardines.) No. 21,800; Apr. 13; v. 273; p. 405.
Underwood, William, Company, Boston, Mass. "Underwood's Sardines in Oil." (For Sardines.) No. 21,801; Apr. 13; v. 273; p. 405.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. "Vogt's Philadelphia Scrapple." (For Scrapple.) No. 21,802; Apr. 13; v. 273; p. 405.
Walker-Matteson Co., Joliet, Ill. "Armory Brand." (For Canned Food Products.) No. 21,803; Apr. 13; v. 273; p. 405.
Walton Milling Company, Lansing, Mich. "Walton's Searchlight Wheat Hearts." (For Cereal Food—Namely, Wheat Hearts.) No. 21,840; Apr. 20; v. 273; p. 627.
Washer Maid Company, The, Chicago, Ill. "Washer Maid." (For Soap.) No. 21,852; Apr. 27; v. 273; p. 806.
Weber-Schlitz Candy Company, Milwaukee, Wis. "Jack-O-Dandy." (For Candies — Namely, Suckers.) No. 21,841; Apr. 20; v. 273; p. 627.
Weiser Air Storage Co., Weiser, Idaho. "Overland." (For Apples.) No. 21,804; Apr. 13; v. 273; p. 405.
Welch, E. M., Cleveland, Ohio. "Latapep." (For a Medicinal Tonic.) No. 21,775; Apr. 6; v. 273; p. 183.
Welch Grape Juice Company, The, Westfield, N. Y. "Peachlade." (For Bread, Toast, and Muffins.) No. 21,842; Apr. 20; v. 273; p. 627.
Welch Grape Juice Company, The, Westfield, N. Y. "Graplade." (For a Spread for Bread, Toast, and Biscuit.) No. 21,843; Apr. 20; v. 273; p. 627.
Western Malt Products Co., Pueblo, Colo. "Red Seal." (For Malt Syrup.) No. 21,833; Apr. 20; v. 273; p. 627.
Wright, Richard B., East Islip, N. Y. "Wright's Mouse Killer, not a poison." (For a Non-Poisonous Powder for Killing Rats and Mice.) No. 21,776; Apr. 6; v. 273; p. 183.
Yarn Clearing House, New York, N. Y. "Superyarn." (For Yarn.) No. 21,838; Apr. 20; v. 273; p. 627.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Bennett, Jacob, Inc., Norfolk, Va. "Bankers' Diamond Selection Service." (For Diamonds.) No. 5,240; Apr. 13; v. 273; p. 406.
Haley, E. E., Richmond, Va. "Virginia Fairy or Lucky Stone Co." (For Virginia Fairy or Lucky Stones.) No. 5,245; Apr. 20; v. 273; p. 628.
Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Posesses Four Vital Tractors." (For Automobiles.) No. 5,246; Apr. 20; v. 273; p. 628.
Haynes Automobile Company, The, Kokomo, Ind. "The Haynes Sedan." (For Automobiles.) No. 5,247; Apr. 20; v. 273; p. 628.
Johnson Biscuit Company, Sioux City, Iowa. "A Matter of Good Taste." (For Chocolates.) No. 5,248; Apr. 20; v. 273; p. 628.
Martin Calf Feed Company, Mineral Point, Wis. "Learning to Drink Martin's Calf Feed." (For Calf Feed.) No. 5,241; Apr. 13; v. 273; p. 406.
National Canners Association, Washington, D. C. "Canned Food—the Miracle on Your Table." (For Canned Foods.) No. 5,239; Apr. 6; v. 273; p. 183.
Oak Flooring Manufacturers Association, Chicago, Ill. "Oak." (For Oak Flooring.) No. 5,253; Apr. 20; v. 273; p. 628.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. plays such a glad tune in that old jimmy pipe." (For Smoking-Tobacco.) No. 5,242; Apr. 13; v. 273; p. 406.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You've got 'em Breaking Right" (For Smoking-Tobacco.) No. 5,243; Apr. 13; v. 273; p. 406.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. has such a joy'us way of making men glad about jimmy pipes!" (For Smoking-Tobacco.) No. 5,244; Apr. 13; v. 273; p. 406.
Rueckheim Bros. & Eckstein, Chicago, Ill. "Angelus Marshmallows." (For Marshmallows.) No. 5,249; Apr. 20; v. 273; p. 628.
Runyan Chemical Products Co., Omaha, Nebr. "Palzo The Great American Cleaner." (For a Cleaner.) No. 5,250; Apr. 20; v. 273; p. 628.
Runyan Chemical Products Co., Omaha, Nebr. "Palzo." (For a Cleanser.) No. 5,254; Apr. 27; v. 273; p. 806.
Septole Hygiene Co., Baltimore, Md. "System Cleaners." (For Laxative Tablets.) No. 5,252; Apr. 20; v. 273; p. 628.
Sunbeam Chemical Company, Chicago, Ill. "Sun Flakes Give Your Washable Garments a Sun Flake Bath." (For Soaps in Flake Form.) No. 5,255; Apr. 27; v. 273; p. 806.
William Patent Crusher & Pulverizer Co., St. Louis, Mo. "Taking Care of Ball Bearings of Our A-B-C Grinding Line." (For Ball-Bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) No. 5,251; Apr. 20; v. 273; p. 628.

DISCLAIMERS.

Averill, Georgene, New York, N. Y.; disclaimer filed by patentee. Doll. No. 1,269,363; disclaimer filed Jan. 13, 1920; v. 273; p. 190.

Landsiedel, Harry, Cincinnati, Ohio; disclaimer filed by assignee, The Dalton Adding Machine Company. Adding and recording machine. No. 1,225,655; disclaimer filed April 5, 1920; v. 273; p. 413.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF APRIL, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasion, Holder for substances to be consumed by. J. C. Cook. No. 1,336,819; Apr. 13; v. 273; p. 271.
Abrasive structures, Making. C. W. Thomas. No. 1,338,598; Apr. 27; v. 273; p. 751.
Accounting and recording apparatus. J. V. Weckbaugh. No. 1,337,575; Apr. 20; v. 273; p. 489.
Accounting-machine. A. Briechle. No. 1,336,192; Apr. 6; v. 273; p. 92.
Acetates, &c., Production of. J. W. H. Randall. No. 1,338,040; Apr. 27; v. 273; p. 647.
Acetylene-gas generator. J. D. Luttrell. No. 1,336,573; Apr. 13; v. 273; p. 224.
Acetylene-generator. R. D. Braden and C. W. Grant. No. 1,336,813; Apr. 13; v. 273; p. 270.
Acid, Allylester of the 2-phenylquinolin 4-carboxylic. A. Gams. No. 1,336,952; Apr. 13; v. 273; p. 297.
Acid, Apparatus for producing hydrochloric. H. M. Lasher. No. 1,335,743; Apr. 6; v. 273; p. 8.
Acid-charging system for digesters. F. J. Dooley. No. 1,338,496; Apr. 27; v. 273; p. 733.
Acid compound, Trimethyl-acetyl-salicylic. W. Grüttefien. No. 1,338,297; Apr. 27; v. 273; p. 695.
Acid, Concentrating nitric and sulfuric. A. C. Bohre. No. 1,338,418; Apr. 27; v. 273; p. 718.
Acid, Making nitric. E. Thomson. No. 1,337,106; Apr. 13; v. 273; p. 326.
Acid, Manufacture of a boron derivative of pyrophosphoric. B. Levin. No. 1,336,974; Apr. 13; v. 273; p. 301.
Acid, Manufacture of concentrated nitric. E. Bergve and O. Jensen. No. 1,338,417; Apr. 27; v. 273; p. 718.
Acid utilizing sludge acid, Producing hydrochloric. H. M. Lasher. No. 1,337,141; Apr. 13; v. 273; p. 332.
Acids and acid anhydrids, Manufacture of. M. Moest and E. Schirm. No. 1,337,253; Apr. 20; v. 273; p. 428.
Adapter. W. J. Cameron. No. 1,335,935; Apr. 6; v. 273; p. 44.
Adding and listing machine, Combined. W. F. McCaleb. No. 1,337,844; Apr. 20; v. 273; p. 540.
Adding and typewriting machines, Paper-support for combined. C. L. Harvey. No. 1,336,836; Apr. 13; v. 273; p. 275.
Adding-machine. M. M. Holloway. No. 1,337,599; Apr. 20; v. 273; p. 493.
Addressograph. R. B. Smart. No. 1,337,970; Apr. 20; v. 273; p. 565.
Adhesive. W. Alexander. No. 1,337,381; Apr. 20; v. 273; p. 452.
Adhesive composition and making same. W. Alexander. No. 1,337,382; Apr. 20; v. 273; p. 452.
Adhesive-cord strips and winding mechanism therefor, Making. F. B. Converse and J. L. Butler. No. 1,337,690; Apr. 20; v. 273; p. 511.
Adjustable holder. A. H. Carlson. No. 1,335,724; Apr. 6; v. 273; p. 4.
Advertising apparatus. J. R. Osborne. No. 1,338,523; Apr. 27; v. 273; p. 738.
Advertising-display device. S. T. Harvey. No. 1,337,315; Apr. 20; v. 273; p. 440.
Advertising quarters, lodgings, or the like, Means for. M. M. Holloway. No. 1,338,135; Apr. 27; v. 273; p. 665.
Aerial craft, Apparatus for tilting planes on. A. V. Roe. No. 1,336,160; Apr. 6; v. 273; p. 86.
Aerial craft, Stabilizing-plane on. A. E. Roe and R. J. Parrott. No. 1,336,161; Apr. 6; v. 273; p. 86.
Aerial navigation, Flash-light for. H. L. M. J. Benard. No. 1,337,880; Apr. 20; v. 273; p. 547.
Aeronautical motor. C. B. Kirkham. No. 1,336,704; Apr. 13; v. 273; p. 249.
Aeroplane. B. Carlisle. No. 1,336,678; Apr. 13; v. 273; p. 244.
Aeroplane. J. D. Denson. No. 1,336,982; Apr. 13; v. 273; p. 302.
Aeroplane. C. R. Fairey. No. 1,337,702; Apr. 20; v. 273; p. 525.
Aeroplane. J. Fox. No. 1,338,128; Apr. 27; v. 273; p. 664.
Aeroplane. H. J. Parker. No. 1,337,151; Apr. 13; v. 273; p. 334.
Aeroplane control. F. L. Morse. No. 1,336,977; Apr. 13; v. 273; p. 301.
Aeroplane-control mechanism. H. Kleckler. No. 1,336,632; Apr. 13; v. 273; p. 235.
Aeroplane mechanisms, Automatic switch-operating device for. E. E. G. Hedenstrom. No. 1,336,138; Apr. 6; v. 273; p. 82.
Aeroplane-wing construction. F. J. Plym. No. 1,337,951; Apr. 20; v. 273; p. 561.
Aeroplanes, Aerofoil for. A. A. Holle. No. 1,337,515; Apr. 20; v. 273; p. 477.
Aeroplanes, Life-saving device for. F. A. Townsley. No. 1,337,336; Apr. 20; v. 273; p. 444.
Aeroplanes, Rate-of-ascent indicator for. F. M. Champlin. No. 1,338,358; Apr. 27; v. 273; p. 707.
Aeroplanes, Self-leveling basket for. J. Juricich. No. 1,336,702; Apr. 13; v. 273; p. 249.
Agricultural implement. S. L. Allen. No. 1,338,273; Apr. 27; v. 273; p. 691.
Agricultural implement. E. Fowler and J. V. Lewis. No. 1,337,126; Apr. 13; v. 273; p. 329.
Agricultural implement, Self-propelled. E. W. Thomas. No. 1,336,057; Apr. 6; v. 273; p. 67.
Agricultural machines, Driving and running gear for. O. Frankman. No. 1,337,510; Apr. 20; v. 273; p. 477.
Air-brake valve. C. A. Nelson. No. 1,338,190; Apr. 27; v. 273; p. 675.
Air-brakes, Apparatus for electrically controlling. E. I. La Count. No. 1,336,465; Apr. 13; v. 273; p. 203.
Aircraft, Landing-gear for. H. Kleckler. No. 1,336,633; Apr. 13; v. 273; p. 235.
Air-drill. G. Juresisin. No. 1,338,137; Apr. 27; v. 273; p. 665.
Air, Humidifying. R. W. Hardie. No. 1,336,225; Apr. 6; v. 273; p. 98.
Air-moistener. R. W. Hardie. No. 1,377,766; Apr. 20; v. 273; p. 526.
Air-motor. E. Plemmons. No. 1,336,315; Apr. 6; v. 273; p. 115.
Airplane. D. Dobbins. No. 1,336,946; Apr. 13; v. 273; p. 296.
Airplane. D. Dobbins. No. 1,336,947; Apr. 13; v. 273; p. 296.
Airplane. H. Kleckler. No. 1,336,405; Apr. 6; v. 273; p. 132.
Airplane. B. H. Mull. No. 1,335,852; Apr. 6; v. 273; p. 27.
Airplane. H. C. Neal. No. 1,338,247; Apr. 27; v. 273; p. 686.
Airplane driving mechanism. F. Glatz. No. 1,338,435; Apr. 27; v. 273; p. 721.
Airplane-radiators, Shock-absorber for. P. J. R. Postel-Vinay. No. 1,337,157; Apr. 13; v. 273; p. 335.
Air-pressure control, Automatic. A. C. Kingsbury. No. 1,336,301; Apr. 6; v. 273; p. 112.
Airship. H. Nordmark. No. 1,336,651; Apr. 13; v. 273; p. 238.
Airship. G. F. Ochs. No. 1,337,409; Apr. 20; v. 273; p. 458.
Air-vent, Automatic. P. Carroll. No. 1,336,280; Apr. 6; v. 273; p. 108.
Alarm-actuating apparatus. J. R. Meadowcroft. No. 1,338,146; Apr. 27; v. 273; p. 667.
Alarm-actuating apparatus. J. R. Meadowcroft. No. 1,338,147; Apr. 27; v. 273; p. 667.
Alkali cyanid from alkali carbonate, Separating. F. J. Metzger. No. 1,337,019; Apr. 13; v. 273; p. 309.
Alloy. F. Milliken. No. 1,338,517; Apr. 27; v. 273; p. 737.
Alloy. F. Milliken. No. 1,338,518; Apr. 27; v. 273; p. 737.
Alloy, Electric resistance. W. A. Scheuch. No. 1,337,276; Apr. 20; v. 273; p. 433.
Alloy of iron, zirconium, and titanium and production thereof. H. C. Sicard. No. 1,335,991; Apr. 6; v. 273; p. 55.
Alloy of zirconium and lead, Producing an. N. Petinot. No. 1,335,982; Apr. 6; v. 273; p. 53.
Alloys containing zirconium carbid, Producing. N. Petinot. No. 1,335,983; Apr. 6; v. 273; p. 53.
Aluminum, Hardening. H. M. Buluckian. No. 1,336,420; Apr. 13; v. 273; p. 195.
Aluminum-solder. J. G. Kelly. No. 1,336,081; Apr. 6; v. 273; p. 71.
Alunite, Treating. W. F. Downs. No. 1,338,428; Apr. 27; v. 27; v. 273; p. 720.
Alunite, Utilization of native. H. F. Chappell. No. 1,336,508; Apr. 13; v. 273; p. 211.

Amalgamator. A. Harter. No. 1,336,697; Apr. 13; v. 273; p. 248.
Aminoanthraquinone, Making 2-. M. Fischer. No. 1,338,363; Apr. 27; v. 273; p. 708.
Aminoanthraquinone, Making 2-. M. Fischer. No. 1,338,364; Apr. 27; v. 273; p. 708.
Ammonia, Synthetic production of. H. C. Greenwood. No. 1,337,903; Apr. 20; v. 273; p. 552.
Ammonium perchlorates, Manufacturing. O. B. Carlson. No. 1,338,357; Apr. 27; v. 273; p. 707.
Amusement apparatus. J. H. Butcher. No. 1,337,820; Apr. 20; v. 273; p. 535.
Amusement device. B. Klein. No. 1,336,082; Apr. 6; v. 273; p. 71.
Anchor, Stockless. F. Briner. No. 1,335,816; Apr. 6; v. 273; p. 21.
Angle-plate. A. S. and R. Reid. No. 1,338,095; Apr. 27; v. 273; p. 657.
Anhydrid, Phthalic. C. E. Andrews. No. 1,336,182; Apr. 6; v. 273; p. 90.
Ankle-brace and arch-support. F. Tranmer. No. 1,336,001; Apr. 6; v. 273; p. 56.
Annealing-furnace. K. Berglof. No. 1,336,190; Apr. 6; v. 273; p. 92.
Annealing-furnace. T. J. Costello. No. 1,336,681; Apr. 13; v. 273; p. 245.
Annunciator. E. W. Vogel. No. 1,337,299; Apr. 20; v. 273; p. 437.
Antenna with distributed positive resistance. M. J. Pupin and E. H. Armstrong. No. 1,336,378; Apr. 6; v. 273; p. 127.
Antiskid device. H. W. White and A. T. Sheldon. No. 1,336,175; Apr. 6; v. 273; p. 89.
Antiskidding device. S. Oppenheimer. No. 1,338,036; Apr. 27; v. 273; p. 646.
Antispinning device. D. Turner. No. 1,336,265; Apr. 6; v. 273; p. 106.
Arc-current regulator. J. A. Hollfield. No. 1,338,301; Apr. 27; v. 273; p. 696.
Armature. J. W. Pearson. No. 1,338,093; Apr. 27; v. 273; p. 657.
Armature-coils, Machine for forming. F. C. Nicol and C. H. Knowles. No. 1,337,463; Apr. 20; v. 273; p. 467.
Armature head and core, Detachable magneto-. R. A. Oglesby. No. 1,338,151; Apr. 27; v. 273, p. 668.
Armored fixture. A. Kammerich. No. 1,338,372; Apr. 27; v. 273; p. 710.
Artillery and other purposes, Road wheeled units for. E. Schneider. No. 1,335,759; Apr. 6; v. 273; p. 11.
Asbestos, Method of and apparatus for treating. O. H. Cilley. No. 1,338,613; Apr. 27; v. 273; p. 754.
Ash-sifter. A. Kolar. No. 1,336,637; Apr. 13; v. 273; p. 236.
Ash-sifter. H. Rozenske. No. 1,336,538; Apr. 13; v. 273; p. 217.
Asphalt-cutter. F. V. E. Bardol. No. 1,337,426; Apr. 20; v. 273; p. 461.
Assembling-machine. J. S. Wentworth. No. 1,336,875; Apr. 13; v. 273; p. 282.
Auto attachment. J. Lines. No. 1,336,305; Apr. 6; v. 273; p. 113.
Auto-lock. G. F. Smith. No. 1,336,384; Apr. 6; v. 273; p. 129.
Auto-tire spring. M. H. Standley. No. 1,336,868; Apr. 13; v. 273; p. 281.
Autographic register. E. J. Barker. No. 1,338,167; Apr. 27; v. 273; p. 671.
Automatic screen. S. Heath. No. 1,338,223; Apr. 27; v. 273; p. 682.
Automatic selecting-switch. A. B. Sperry. No. 1,337,285; Apr. 20; v. 273; p. 434.
Automatic stabilizing apparatus. L. I. Henry. No. 1,335,893; Apr. 6; v. 273; p. 36.
Automatic switch. J. L. McQuarrie. No. 1,337,784; Apr. 20; v. 273; p. 529.
Automatic switch. J. N. Reynolds and J. F. Hearn. No. 1,337,794; Apr. 20; v. 273; p. 530.
Automobile. R. S. Fend. No. 1,337,007; Apr. 13; v. 273; p. 307.
Automobile. R. S. Fend. No. 1,336,008; Apr. 13; v. 273; p. 307.
Automobile and other vehicles and machines, Electrical control mechanism for. W. J. P. Moore. No. 1,337,613; Apr. 20; v. 273; p. 496.
Automobile attachment. R. W. Harris. No. 1,337,555; Apr. 20; v. 273; p. 485.
Automobile attachment. M. A. Leach. No. 1,337,522; Apr. 20; v. 273; p. 479.
Automobile auxiliary table. S. M. Debakey. No. 1,337,886; Apr. 20; v. 273; p. 548.
Automobile-buffer. W. G. Cox. No. 1,335,877; Apr. 6; v. 273; p. 32.
Automobile-bumper. W. S. Frazier. No. 1,338,433; Apr. 27; v. 273; p. 721.
Automobile-bumper. H. Taylor. No. 1,338,597; Apr. 27; v. 273.
Automobile-bumper. R. J. Traupmann. No. 1,338,048; Apr. 27; v. 273; p. 649.
Automobile-chassis. J. W. Lovell. No. 1,338,383; Apr. 27; v. 273; p. 712.
Automobile-controlling device. F. W. Norton. No. 1,336,856; Apr. 13; v. 273; p. 279.
Automobile danger-signal. J. Schacht. No. 1,336,381; Apr. 6; v. 273; p. 128.
Automobile-door-opening device. N. J. Delohi. No. 1,338,560; Apr. 27; v. 273; p. 745.
Automobile-jack. E. L. Flum and J. A. Maschino. No. 1,337,125; Apr. 13; v. 273; p. 329.
Automobile-lock. C. W. Nickerson. No. 1,336,650; Apr. 13; v. 273; p. 238.
Automobile lock and traction device. S. A. Shannon and H. P. Randall. No. 1,337,568. Apr. 20; v. 273; p. 487.
Automobile-locking device. C. G. Read. No. 1,336,379; Apr. 6; v. 273; p. 127.
Automobile protective device. O. C. Lohse. No. 1,336,306; Apr. 6; v. 273; p. 113.
Automobile-reflector dimmer. B. Fuligni and C. J. Muhsgnug. No. 1,336,951; Apr. 13; v. 273; p. 297.
Automobile-radiators, Device for controlling the temperature of. R. L. Pate. No. 1,338,585; Apr. 27; v. 273; p. 749.
Automobile runner attachment. C. Peterson. No. 1,337,153; Apr. 13; v. 273; p. 335.
Automobile-signal. F. Bahler. No. 1,336,713; Apr. 13; v. 273; p. 251.
Automobile-signal. A. E. McCurdy. No. 1,336,644; Apr. 13; v. 273; p. 237.
Automobile-signal. W. Schlerding. No. 1,336,588; Apr. 13; v. 273; p. 226.
Automobile-signal. J. Svalgel. No. 1,336,795; Apr. 13; v. 273; p. 267.
Automobile-signal. W. G. Thomas. No. 1,337,572; Apr. 20; v. 273; p. 488.
Automobile signaling device. V. J. Kovzovich. No. 1,337,405; Apr. 20; v. 273; p. 457.
Automobile-theft-detection device. W. J. Finn. No. 1,335,827; Apr. 6; v. 273; p. 23.
Automobile-washing apparatus. H. F. Knapp. No. 1,337,477; Apr. 20; v. 273; p. 470.
Automobile water connection. H. and L. Hoffman. No. 1,337,227; Apr. 20; v. 273; p. 423.
Automobile water connection. H. and L. Hoffman. No. 1,337,228; Apr. 20; v. 273; p. 423.
Automobile-wheel jack. A. Erbel and J. Wuepper. No. 1,335,885; Apr. 6; v. 273; p. 34.
Automobiles, Antiskid-sander for. E. M. Littell. No. 1,338,640; Apr. 27; v. 273; p. 759.
Automobiles, Clutch-releasing mechanism for. A. T. Sturt. No. 1,336,000; Apr. 6; v. 273; p. 56.
Automobiles, Detachable trunk-rack for. S. W. Friedman. No. 1,337,647; Apr. 20; v. 273; p. 502.
Automobiles, Knockdown cabinet for. F. O. Graf. No. 1,337,449; Apr. 20; v. 273; p. 465.
Automobiles, Lubricant cleaning and replenishing system for. W. L. Morris. No. 1,337,408; Apr. 20; v. 273; p. 457.
Automobiles, Running-board and fender support for. A. W. Kirchner. No. 1,337,078; Apr. 13; v. 273; p. 321.
Automobiles, Semaphore for. A. and H. Bachman. No. 7,336,063; Apr. 6; v. 273; p. 68.
Automobiles, Tail-light and traffic-signaling device for. W. J. Begley. No. 1,336,772; Apr. 13; v. 262.
Automobiles, Tractor attachment for. G. S. Jacobs. No. 1,335,836; Apr. 6; v. 273; p. 25.
Automobiles, Traffic-signal for. A. W. Fernans. No. 1,338,430; Apr. 27; v. 273; p. 720.
Autosled. B. T. Tollbom. No. 1,336,448; Apr. 13; v. 273; p. 200.
Awning, Baby-coach. J. Karasevicz. No. 1,337,360; Apr. 20; v. 273; p. 448.
Awning, Window-. H. C. Baker. No. 1,335,930; Apr. 6; v. 273; p. 42.
Axle construction, Rear-. F. Richard. No. 1,337,411; Apr. 20; v. 273; p. 458.
Bag. J. Kleidman. No. 1,338,375; Apr. 27; v. 273; p. 710.
Bag-filling device. R. L. Callahan. No. 1,336,612; Apr. 13; v. 273; p. 231.
Bag-holder. B. McBride. No. 1,336,530; Apr. 13; v. 273; p. 215.
Bag holder, Grain-. W. Jahns. No. 1,337,134; Apr. 13; v. 273; p. 331.
Baking-pan. H. C. Wierth. No. 1,338,344; Apr. 27; v. 273; p. 705.
Ball-and-socket joint. A. M. Kuhn. No. 1,337,235; Apr. 20; v. 273; p. 425.
Ball-bearing spring. G. A. Saville, Jr. No. 1,338,537; Apr. 27; v. 273; p. 740.
Ball-mill. F. E. Canda. No. 1,337,641; Apr. 20; v. 273; p. 501.
Ball-mill, Inclosed-screen. J. R. Ball. No. 1,337,033; Apr. 13; v. 273; p. 313.
Balloon, Dirigible. R. H. Upson. No. 1,336,601; Apr. 13; v. 273; p. 229.
Balloon, Multiple propelled. G. Appinel. No. 1,337,082; Apr. 13; v. 273; p. 312.
Banana weigher and hanger. F. Gillarde. No. 1,338,220; Apr. 27; v. 273; p. 681.
Banjo. S. F. Cetta. No. 1,337,041; Apr. 13; v. 273; p. 314.
Banjos, Head-tightening device for. A. D. Grover. No. 1,338,076; Apr. 27; v. 273; p. 654.
Bar: *See*—
Boring-bar. Tractor draw-bar.
Grate-bar.
Barber-chair. G. Ewing. No. 1,338,616; Apr. 27; v. 273; p. 754.

Barn. A. F. McGirr. No. 1,336,471; Apr. 13; v. 273; p. 204.
Barrel. W. W. Wood. No. 1,336,011; Apr. 6; v. 273; p. 58.
Barrel-agitator. C. E. Farrington. No. 1,336,830; Apr. 13; v. 273; p. 273.
Barrel-cleat. J. P. Nicolle. No. 1,338,522; Apr. 27; v. 273; p. 738.
Barrel, Collapsible. S. A. and M. A. Knapp. No. 1,336,358; Apr. 6; v. 273; p. 123.
Barrel-cover. E. H. Angier. No. 1,337,188; Apr. 20; v. 273; p. 416.
Barrel-handling device. W. A. Robinson. No. 1,335,796; Apr. 6; v. 273; p. 18.
Barrel-tap. H. O. Finley. No. 1,338,007; Apr. 27; v. 273; p. 641.
Barrels, Instrument for securing concave metal stoppers in. J. Galleazzi. No. 1,338,619; Apr. 27; v. 273; p. 755.
Batchometer. N. M. Rosendahl. No. 1,336,586; Apr. 13; v. 273; p. 226.
Bath-shower, Portable. K. K. Jensen. No. 1,336,034; Apr. 6; v. 273; p. 63.
Bathtub and dresser for babies, Combined. E. L. Nickels. No. 1,338,034; Apr. 27; v. 273; p. 646.
Battery: *See*—
Galvanic battery. Primary battery.
Battery-cell and vent means therefor. C. C. Carpenter and R. J. Ellis. No. 1,336,506; Apr. 13; v. 273; p. 211.
Battery-indicator. W. C. Carlon. No. 1,338,170; Apr. 27; v. 273; p. 671.
Battery jar and cover. C. C. Carpenter and R. J. Ellis. No. 1,336,507; Apr. 13; v. 273; p. 211.
Battery-jar-forming machine. J. H. Wagenhorst. No. 1,338,470; Apr. 27; v. 273; p. 728.
Battery-plates, Terminal means for. C. C. Carpenter. No. 1,336,127; Apr. 6; v. 273; p. 80.
Battery-switch. C. A. Gillingham. No. 1,337,217; Apr. 20; v. 273; p. 421.
Battery terminal, Storage-. C. W. Hazelett. No. 1,338,130; Apr. 27; v. 273; p. 664.
Battery-tester. G. H. Rieheth. No. 1,337,160; Apr. 13; v. 273; p. 336.
Beads, Implement for threading embroidery-. R. O. Trueb. No. 1,335,805; Apr. 6; v. 273; p. 19.
Bean or weed cutter. J. Aman. No. 1,337,499; Apr. 20; v. 273; p. 475.
Beans, Apparatus for snipping string-. W. E. Urschel. No. 1,336,991; Apr. 13; v. 273; p. 304.
Bearing. E. G. Dann. No. 1,337,203; Apr. 20; v. 273; p. 419.
Bearing and mounting therefor. G. R. Bott. No. 1,337,881; Apr. 20; v. 273; p. 547.
Bearing and mounting therefor. G. R. Bott. No. 1,337,882; Apr. 20; v. 273; p. 548.
Bearing, Ball-. T. Hegelman. No. 1,336,352; Apr. 6; v. 273; p. 122.
Bearing-finder. W. Wingate. No. 1,336,010; Apr. 6; v. 273; p. 58.
Bearing, Gas-engine. W. F. Kasper. No. 1,337,656; Apr. 20; v. 273; p. 273; p. 504.
Bearing, Gas-lubricated. W. G. Abbott, Jr. No. 1,337,742; Apr. 20; v. 273; p. 521.
Bearing, Piston-rod journal-. C. J. Blankinship and W. M. Ellis. No. 1,338,351; Apr. 27; v. 273; p. 706.
Bearing, Roller-. E. H. W. Welbull. No. 1,335,766; Apr. 6; v. 273; p. 12.
Bearing, Thrust-. J. W. Thropp. No. 1,337,028; Apr. 13; v. 273; p. 311.
Bearings, Apparatus for manufacturing rings, especially track-rings for ball and roller. P. S. Rydbeck. No. 1,338,462; Apr. 27; v. 273; p. 726.
Bearings, Oiling and protecting means for ball-. D. J. Gilbert. No. 1,337,597; Apr. 20; v. 273; p. 273; p. 493.
Bed. C. R. Ball. No. 1,337,580; Apr. 20; v. 273; p. 490.
Bed. F. M. Garner. No. 1,335,961; Apr. 6; v. 273; p. 49.
Bed-bottom hanger. D. C. Travis and F. Kusterle. No. 1,336,397; Apr. 6; v. 273; p. 131.
Bed-chair. J. A. Arton. No. 1,336,062; Apr. 6; v. 273; p. 67.
Bed, cradle, and wardrobe, Combination baby's. W. W. Knight. No. 1,336,240; Apr. 6; v. 273; p. 101.
Bed, Folding. G. R. McAllaster. No. 1,337,321; Apr. 20; v. 273; p. 441.
Bed, Metallic. J. H. Bradley. No. 1,337,340; Apr. 20; v. 273; p. 445.
Bed-rail and lock. J. A. Charbonnet. No. 1,336,282; Apr. 6; v. 273; p. 109.
Bed-rest. W. H. Clampett. No. 1,336,197; Apr. 6; v. 273; p. 93.
Bed-rest. A. Hackman. No. 1,336,294; Apr. 6; v. 273; p. 111.
Bed-spring. L. H. Ershler and M. Hendler. No. 1,337,508; Apr. 20; v. 273; p. 476.
Bed-spring fabric. C. W. Piper. No. 1,335,984; Apr. 6; v. 273; p. 53.
Bedpost-fastener. M. B. Okum. No. 1,337,150; Apr. 13; v. 273; p. 334.
Bed, Table-. R. N. Woodman. No. 1,337,497; Apr. 20; v. 273; p. 474.
Bedstead. G. Goodwin. No. 1,337,012; Apr. 13; v. 273; p. 308.
Bedstead corner-fastening. M. Schlesinger. No. 1,337,799; Apr. 20; v. 273; p. 531.
Bedstead corner-joint. R. Tattu. No. 1,337,626; Apr. 20; v. 273; p. 273; p. 498.
Bedsteads and occupants from place to place, Apparatus for transferring. M. Volk. No. 1,337,861; Apr. 20; v. 273; p. 543.
Bedsteads, Corner for. R. Tattu. No. 1,337,627; Apr. 20; v. 273; p. 499.
Beehive. R. Karpinski. No. 1,336,523; Apr. 13; v. 273; p. 214.
Beet-gathering machine. J. A. Caywood. No. 1,336,024; Apr. 6; v. 273; p. 61.
Beet screening, piling, and loading machine. F. Jones. No. 1,336,297; Apr. 6; v. 273; p. 112.
Beet-topper. M. A. Greene. No. 1,335,962; Apr. 6; v. 273; p. 49.
Belt, Filtering-. J. A. McCaskell. No. 1,338,232; Apr. 27; v. 273; p. 683.
Belt-shifter. G. E. Jackson. No. 1,335,736; Apr. 6; v. 273; p. 6.
Belt-tightener. E. E. Richardson. No. 1,338,096; Apr. 27; v. 273; p. 657.
Belt-tightener. C. L. Stickney. No. 1,338,405; Apr. 27; v. 273; p. 715.
Belts, Punch for perforating. M. C. Gleerup-Möller. No. 1,338,296; Apr. 27; v. 273; p. 695.
Benzene hydrocarbons from coal-gas, Recovery of. G. E. Darier. No. 1,336,893; Apr. 13; v. 273; p. 286.
Berth safety-spring. R. T. Crane, Jr. No. 1,336,943; Apr. 13; v. 273; p. 295.
Bessemerizing iron. R. S. McCaffery. No. 1,338,655; Apr. 27; v. 273; p. 762.
Bevel. J. W. Smith. No. 1,336,102; Apr. 6; v. 273; p. 75.
Bevel-cutting machine. W. P. Curry. No. 1,336,731; Apr. 13; v. 273; p. 255.
Beverage extract and manufacturing same, Solid soluble. J. K. Lippen. No. 1,338,231; Apr. 27; v. 273; p. 683.
Beverage, Non-alcoholic. A. L. Straus. No. 1,337,850; Apr. 20; v. 273; p. 541.
Bicycle attachment. R. O. Elselt. No. 1,337,396; Apr. 20; v. 273; p. 455.
Bicycle-crank. J. J. McGuckin. No. 1,337,765; Apr. 20; v. 273; p. 525.
Bicycle-pump lock. A. P. Lundin. No. 1,338,512; Apr. 27; v. 273; p. 736.
Bicycle, Water-. M. Sopcense. No. 1,337,372; Apr. 20; v. 273; p. 451.
Billiard tables, Ball-receptacle for pocket-. J. S. Trew. No. 1,335,924; Apr. 6; v. 273; p. 41.
Bin: *See*—
Storage-bin.
Binder. J. A. Calvert. No. 1,337,193; Apr. 30; v. 273; p. 417.
Binder. E. R. Wohler. No. 1,336,495; Apr. 13; v. 273; p. 208.
Binder device. G. P. Wigginton. No. 1,338,658; Apr. 27; v. 273; p. 762.
Binder, Loose-leaf. R. L. Esson. No. 1,337,124; Apr. 13; v. 273; p. 329.
Binder, Temporary. W. Feldmann. No. 1,337,213; Apr. 20; v. 273; p. 420.
Binocular. R. and G. R. Meling. No. 1,338,241; Apr. 27; v. 273; p. 685.
Bit: *See*—
Bridle-bit. Drill-bit.
Blank-forming machine. J. W. Brundage. No. 1,338,120; Apr. 27; v. 273; p. 662.
Blast-furnace, Electric. J. Bibby and J. O. Boving. No. 1,336,017; Apr. 6; v. 273; p. 59.
Bleaching-boiler plant. C. Tütsch. No. 1,335,925; Apr. 6; v. 273; p. 42.
Block: *See*—
Building-block. Brake-block.
Collapsible block. Tunnel-block.
Sheave-block.
Toy building and design block.
Block-press. W. H. Shortell. No. 1,336,164; Apr. 6; v. 273; p. 87.
Block-signal system. J. J. Ruddick. No. 1,336,486; Apr. 13; v. 273; p. 207.
Blower, Boiler soot-. F. L. Dornbrook. No. 1,337,828; Apr. 20; v. 273; p. 537.
Blower, Rotary. I. H. Spencer. No. 1,338,466; Apr. 27; v. 273; p. 727.
Board: *See*—
Game-board. Ironing-board.
Boat, Flying-. H. Kleckler. No. 1,336,634; Apr. 13; v. 273; p. 235.
Boat, Salvage-. J. Begg. No. 1,337,035; Apr. 13; v. 273; p. 313.
Boat, Sectional. A. J. Lowdermilk. No. 1,337,781; Apr. 20; v. 273; p. 528.
Boats, Stabilizer for. J. J. Ferko. No. 1,336,688; Apr. 13; v. 273; p. 246.
Bobbin, Weft-. L. B. Jenckes. No. 1,337,706; Apr. 20; v. 273; p. 514.
Bodkin. L. M. Matthael. No. 1,337,480; Apr. 20; v. 273; p. 471.
Boiler: *See*—
Egg-boiler. Water-tube boiler.
Locomotive-boiler.
Boiler. J. Zelkowski. No. 1,337,810; Apr. 20; v. 273; p. 533.

Boiler and furnace, Combination. J. W. Allan. No. 1,337,632; Apr. 20; v. 273; p. 499.
Boiler compounds, Feeder for. E. F. Stewart. No. 1,335,802; Apr. 6; v. 273; p. 19.
Boiler-furnace. B. Greenfield. No. 1,338,438; Apr. 27; v. 273; p. 722.
Boiler-tube cleaner. S. J. Herman and C. M. MacKenzie. No. 1,337,557; Apr. 20; v. 273; p. 485.
Boilers, Header for tubular. J. J. Cain. No. 1,337,590; Apr. 20; v. 273; p. 492.
Boilers, Manufacture of stay-bolts for. J. R. Flannery. No. 1,336,213; Apr. 6; v. 273; p. 96.
Boiling indirectly. R. H. Hult. No. 1,337,704; Apr. 20; v. 273; p. 514.
Bolster extension. J. N. Tree. No. 1,337,416; Apr. 20; v. 273; p. 459.
Bolt: *See*—
Oil-bolt. Sectional bolt.
Rail-bolt.
Bomb. W. O. Spencer. No. 1,335,996; Apr. 6; v. 273; p. 55.
Bookbinding. A. Cobb. No. 1,336,198; Apr. 6; v. 273; p. 93.
Book, Check-. J. E. Allen. No. 1,336,804; Apr. 13; v. 273; p. 268.
Book-covers, Machine for making. T. Dean. No. 1,336,944; Apr. 13; v. 273; p. 296.
Book-holder. E. J. Boyer. No. 1,336,275; Apr. 6; v. 273; p. 108.
Book-holding device. D. R. Barry. No. 1,337,582; Apr. 20; v. 273; p. 490.
Book-protector. A. E. Miller. No. 1,337,612; Apr. 20; v. 273; p. 496.
Book-rack. F. Schimmel. No. 1,336,981; Apr. 13; v. 273; p. 302.
Boring-bar. J. R. Martin. No. 1,336,311; Apr. 6; v. 273; p. 114.
Boring-drill, Rotary. F. L. O. Wadsworth. No. 1,338,601; Apr. 27; v. 273; p. 752.
Boring-machine. E. A. De Forest. No. 1,337,393; Apr. 20; v. 273; p. 455.
Bosom-press. G. Binder. No. 1,336,415; Apr. 13; v. 273; p. 194.
Bottle. B. J. Finnegan. No. 1,336,737; Apr. 13; v. 273; p. 256.
Bottle. H. E. Marcil. No. 1,337,979; Apr. 20; v. 273; p. 567.
Bottle-capper. E. R. Sharp. No. 1,338,656; Apr. 27; v. 273; p. 762.
Bottle carrier, Milk-. G. T. Rix. No. 1,336,049; Apr 6; v. 273; p. 65.
Bottle feeding and moving mechanism. J. C. Miller. No. 1,336,788; Apr. 13; v. 273; p. 266.
Bottle-filling device. D. C. Danneiley. No. 1,336,071; Apr. 6; v. 273; p. 69.
Bottle-holder. O. Halverson. No. 1,338,652; Apr. 27; v. 273; p. 761.
Bottle-holder. E. R. Smith. No. 1,338,106; Apr. 27; v. 273; p. 660.
Bottle holder, Nursing-. E. J. Batty. No. 1,336,809; Apr. 13; v. 273; p. 269.
Bottle, Non-refillable. A. Laube. No. 1,337,923; Apr. 20; v. 273; p. 555.
Bottle, Non-refillable. E. Miller. No. 1,336,252; Apr. 6; v. 273; p. 104.
Bottle opener and closer. H. Hunt and R. Schaab. No. 1,338,224; Apr. 27; v. 273; p. 682.
Bottle-protector. E. K. Wolfe. No. 1,338,063; Apr. 27; v. 273; p. 651.
Bottle-stopper. A. J. Daniel. No. 1,338,494; Apr. 27; v. 273; p. 732.
Bottle support and sanitary protector therefor, Safety milk-. D. Dunn. No. 1,336,826; Apr. 13; v. 273; p. 273.
Bottles, Manufacturing rubber hot-water. M. S. Lower. No. 1,338,314; Apr. 27; v. 273; p. 699.
Boudoir-chair. L. H. Morris and F. T. Grubbe. No. 1,338,582; Apr. 27; v. 273; p. 748.
Bowl, Drinking-fountain. M. W. Wuesthoff. No. 1,338,474; Apr. 27; v. 273; p. 728.
Bowling-alley. W. M. Bradley. No. 1,338,284; Apr. 27; v. 273; p. 693.
Box: *See*—
Collapsible box. Mail-box.
Confection-box. Paper box.
Folding box. Shop-box.
Hatbox. Sound-box.
Journal-box. Toilet-box.
Locomotive driving-box. Tote-box.
Box. G. E. Krause. No. 1,335,787; Apr. 6; v. 273; p. 16.
Box-forming machine. M. Hess. No. 1,335,735; Apr. 6; v. 273; p. 6.
Box-lid support. M. Clanovich. No. 1,337,999; Apr. 27; v. 273; p. 639.
Box or crate. J. C. Round. No. 1,338,533; Apr. 27; v. 273; p. 730.
Brace: *See*—
Limb or foot brace. Table corner-brace.
Bracket: *See*—
Scaffold-bracket.
Braiding-machine. R. C. Rahm. No. 1,337,269; Apr. 20; v. 273; p. 431.
Braiding-machine drive and stop mechanism. R. C. Rahm. No. 1,337,270; Apr. 20; v. 273; p. 431.
Braiding-machines, Carrier for. S. S. Picard. No. 1,337,155; Apr. 13; v. 273; p. 335.
Brake: *See*—
Coaster-brake. Wagon-brake.
Spinning-brake.
Brake. J. D. C. Ivey. No. 1,336,435; Apr. 13; v. 273; p. 198.
Brake-beams, Safety device for. J. McMullen. No. 1,338,317; Apr. 27; v. 273; p. 699.
Brake-block. J. B. Bowmer. No. 1,336,882; Apr. 13; v. 273; p. 283.
Brake mechanism, Equalizing. E. H. Belden. No. 1,337,815; Apr. 20; v. 273; p. 534.
Brake-operating means for trailers. H. C. Jarvis. No. 1,336,235; Apr. 6; v. 273; p. 100.
Brassière. C. V. Havens. No. 1,337,224; Apr. 20; v. 273; p. 423.
Bread-making machinery. J. E. Pointon. No. 1,335,915; Apr. 6; v. 273; p. 40.
Bread-pan. S. Goodfriend. No. 1,336,292; Apr. 6; v. 273; p. 111.
Bread-slicing machine. S. Biwoin. No. 1,336,726; Apr. 13; v. 273; p. 254.
Breathing apparatus, Device for changing regenerating-cartridges of. G. Stolle. No. 1,337,026; Apr. 13; v. 273; p. 311.
Brick and block mold. S. V. Tsanoff. No. 1,338,468; Apr. 27; v. 273; p. 727.
Bridge. H. Andresen. No. 1,337,187; Apr. 20; v. 273; p. 416.
Bridle-bit. B. E. Hensley. No. 1,335,904; Apr. 6; v. 273; p. 49.
Broach. A. F. Donaldson. No. 1,336,621; Apr. 13; v. 273; p. 233.
Brooch safety-catch. B. Boccacini. No. 1,338,280; Apr. 27; v. 273; p. 692.
Broom. C. J. Baird. No. 1,337,503; Apr. 20; v. 273; p. 475.
Brush. W. P. Braun. No. 1,337,819; Apr. 20; v. 273; p. 535.
Brush, Fountain-. R. Church. No. 1,337,998; Apr. 27; v. 273; p. 639.
Brush, Irrigated. R. H. Baker. No. 1,336,604; Apr. 13; v. 273; p. 230.
Brush, Pneumatic paint-. F. Polcho. No. 1,336,316; Apr. 6; v. 273; p. 115.
Brush, Shaving-. J. T. Cooney. No. 1,338,424; Apr. 27; v. 273; p. 719.
Brush, Shaving-. F. Hyde. No. 1,335,896; Apr. 6; v. 273; p. 36.
Brushes, Scraper for clothes-. W. E. Thomson. No. 1,337,856; Apr. 20; v. 273; p. 542.
Brushing and polishing apparatus, Driving mechanism for. W. Wlodkowski. No. 1,336,117; Apr. 6; v. 273; p. 78.
Bucket, Well-. C. D. Behan. No. 1,336,881; Apr. 13; v. 273; p. 283.
Buckle. A. A. Abizaid. No. 1,337,181; Apr. 20; v. 273; p. 415.
Buckle. F. A. Russ. No. 1,338,535; Apr. 27; v. 273; p. 740.
Buckle. F. A. Russ. No. 1,338,536; Apr. 27; v. 273; p. 740.
Buckle. J. U. Russ. No. 1,337,965; Apr. 20; v. 273; p. 564.
Buffer. S. G. Lewis and G. W. Daum. No. 1,336,527; Apr. 13; v. 273; p. 215.
Building-block. W. T. Cook. No. 1,336,025; Apr. 6; v. 273; p. 61.
Building construction. W. H. Evers. No. 1,335,886; Apr. 6; v. 273; p. 34.
Building construction. M. R. Sheen. No. 1,336,789; Apr. 13; v. 273; p. 266.
Building, Portable. R. S. Bassett. No. 1,337,745; Apr. 20; v. 273; p. 522.
Building-stake. H. J. Victoria. No. 1,336,004; Apr. 6; v. 273; p. 57.
Bulkhead. B. B. Crane. No. 1,336,892; Apr. 13; v. 273; p. 286.
Bullet, Spot-light. W. L. Clay. No. 1,337,343; Apr. 20; v. 273; p. 446.
Bulletin, Auto-service. H. L. Fulton. No. 1,336,739; Apr. 13; v. 273; p. 256.
Burner: *See*—
Gas-burner. Lamp-burner.
Gaseous-fuel burner. Lantern-burner.
Hydrocarbon-burner.
Burner-tip cleaner. G. W. Johnston, Jr. No. 1,338,633; Apr. 27; v. 273; p. 758.
Burners, Starting device for. J. Alsberg. No. 1,337,498; Apr. 20; v. 273; p. 474.
Bushing-remover. W. E. Donelson. No. 1,338,495; Apr. 27; v. 273; p. 733.
Butt-gage. J. W. Read. No. 1,336,157; Apr. 6; v. 273; p. 86.
Button. W. O. Lee. No. 1,336,243; Apr. 6; v. 273; p. 102.
Button-attaching means. A. J. Matter. No. 1,336,787; Apr. 13; v. 273; p. 265.
Button, Cuff-. J. H. Bechtold. No. 1,336,880; Apr. 13; v. 273; p. 283.
Button, Separable. J. A. and J. G. Doran. No. 1,337,889; Apr. 20; v. 273; p. 549.
Button, Short-contact push-. W. Gadke. No. 1,335,729; Apr. 6; v. 273; p. 5.
Cab, Auto-. J. Anderson. No. 1,336,331; Apr. 6; v. 273; p. 118.

Cabinet, Combined phonographic-disk-record and talking-machine. E. M. Howard. No. 1,335,967; Apr. 6; v. 273; p. 50.
Cabinet, Food-. C. M. Drinkwater. No. 1,336,776; Apr. 13; v. 273; p. 263.
Cabinet for gramophone and like records. L. A. de Becker. No. 1,336,206; Apr. 6; v. 273; p. 95.
Cabinet, Mechanical-draw-delivery filing-. A. T. J. Bahr. No. 1,336,183; Apr. 6; v. 273; p. 91.
Cabinet, Phonograph-record. C. E. Langley. No. 1,337,922; Apr. 20; v. 273; p. 555.
Cabinet, Refrigerating-. M. F. Ewen. No. 1,337,696; Apr. 20; v. 273; p. 512.
Cabinet, Tool-. C. Bouillon. No. 1,337,387; Apr. 20; v. 273; p. 453.
Cabinet, Towel-. J. Rousso. No. 1,338,097; Apr. 27; v. 273; p. 658.
Cable-laying machine. L. S. Adams. No. 1,337,184; Apr. 20; v. 273; p. 415.
Cable-support, Anti-abrasion. B. Gherardi. No. 1,336,558; Apr. 13; v. 273; p. 221.
Cables, System for protecting electric. F. B. Whitaker. No. 1,337,866; Apr. 20; v. 273; p. 544.
Calculating device. F. L. Prescott. No. 1,338,588; Apr. 27; v. 273; p. 749.
Calculating-machine. W. O. J. Anderson. No. 1,338,481; Apr. 27; v. 273; p. 730.
Calculating-machine. A. Briechle. No. 1,335,815; Apr. 6; v. 273; p. 21.
Calculating-machine. A. F. Dodson. No. 1,336,686; Apr. 13; v. 273; p. 246.
Calculating-machine. H. Hopkins. No. 1,336,904; Apr. 13; v. 273; p. 288.
Calculator. M. Swenson. No. 1,336,990; Apr. 13; v. 273; p. 304.
Calf-weaner. W. R. Barger. No. 1,338,606; Apr. 27; v. 273; p. 753.
Calipers. L. D. Spence. No. 1,337,165; Apr. 13; v. 273; p. 337.
Calling device. H. P. Clausen. No. 1,337,198; Apr. 20; v. 273; p. 418.
Calling device. J. A. Hall. No. 1,337,314; Apr. 20; v. 273; p. 440.
Cam-driving device for actuating the pistons of a plurality of pumps, Common. E. Woerner. No. 1,336,803; Apr. 13; v. 273; p. 268.
Camera. W. Parkes. No. 1,336,441; Apr. 13; v. 273; p. 199.
Camera, Photographic. W. F. Folmer. No. 1,335,728; Apr. 6; v. 273; p. 5.
Camera-tripping device. M. F. Jourdan. No. 1,337,603; Apr. 20; v. 273; p. 494.
Cameras, Film-spool for photographic. J. H. Ramsey. No. 1,335,917; Apr. 6; v. 273; p. 40.
Cameras, Inscription printing attachment for. S. G. Zuckermann. No. 1,336,330; Apr. 6; v. 273; p. 118.
Can: *See*—
Cracker-can.
Can. F. P. McColl and W. W. Willison. No. 1,337,526; Apr. 20; v. 273; p. 480.
Can ends, Lining. N. A. Acker. No. 1,336,013; Apr. 6; v. 273; p. 59.
Can-opener. G. A. Carlson. No. 1,336,126; Apr. 6; v. 273; p. 80.
Can-opener. M. L. Hawks. No. 1,337,514; Apr. 20; v. 273; p. 477.
Can-opener. E. O. Murmann. No. 1,337,148; Apr. 13; v. 273; p. 334.
Can-opener. E. O. Murmann. No. 1,338,643; Apr. 27; v. 273; p. 760.
Can-punch. J. E. Hawkins. No. 1,338,300; Apr. 27; v. 273; p. 696.
Can-washing machine. H. D. Lathrop and W. H. Paulson. No. 1,336,570; Apr. 13; v. 273; p. 223.
Can-washing machines, Can-reversing mechanism for. H. D. Lathrop and W. H. Paulson. No. 1,336,567; Apr. 13; v. 273; p. 223.
Can-washing machines, Carrier for. H. D. Lathrop. No. 1,336,568; Apr. 13; v. 273; p. 223.
Cans, Machine for boxing sardine-. R. F. Jones. No. 1,337,404; Apr. 20; v. 273; p. 457.
Cans, Method of and apparatus for wrapping. H. G. Dewey. No. 1,337,693; Apr. 20; v. 273; p. 511.
Cane and fish-rod, Combined. T. Poremba. No. 1,336,088; Apr. 6; v. 273; p. 72.
Cane, Collapsible. F. Kutwicz. No. 1,336,638; Apr. 13; v. 273; p. 236.
Cap, Adjustable. P. A. Fischer. No. 1,337,397; Apr. 20; v. 273; p. 455.
Cap and dust-cap, Combined valve-. A. B. Catterall. No. 1,336,023; Apr. 6; v. 273; p. 60.
Caps, Dust-. A. L. Just. No. 1,337,606; Apr. 20; v. 273; p. 495.
Car cager, Mine-. J. A. Nolan. No. 1,337,944; Apr. 20; v. 273; p. 960.
Car cager, Mine-. J. A. Nolan. No. 1,337,945; Apr. 20; v. 273; p. 560.
Car-check. G. M. Johnson. No. 1,338,225; Apr. 27; v. 273; p. 682.
Car, Convertible freight. G. W. Dallimore. No. 1,336,682; Apr. 13; v. 273; p. 245.
Car, Convertible stock and freight. J. Edman. No. 1,337,348; Apr. 20; v. 273; p. 446.
Car-coupling. W. Kelso. No. 1,338,306; Apr. 27; v. 273; p. 697.
Car-coupling. J. W. Weary. No. 1,335,868; Apr. 6; v. 273; p. 31.
Car-door lock and release. B. M. Pearson. No. 1,337,261; Apr. 20; v. 273; p. 429.
Car doors, Device to seal freight-. N. W. Christensen. No. 1,336,888; Apr. 13; v. 273; p. 284.
Car, Dump-. A. M. Gow. No. 1,338,010; Apr. 27; v. 273; p. 641.
Car-dump-door operator. A. Magimorec. No. 1,338,387; Apr. 27; v. 273; p. 713.
Car for trains, Entrance and exit. K. J. Terrell. No. 1,337,492; Apr. 20; v. 273; p. 473.
Car-lighting dynamos, Device for preventing excessive wear on. H. D. Rohman. No. 1,338,041; Apr. 27; v. 273; p. 647.
Car, Mine-. K. Sollie. No. 1,338,046; Apr. 27; v. 273; p. 648.
Car, Railway-. W. F. Cremean. No. 1,336,134; Apr. 6; v. 273; p. 81.
Car, Railway-. R. W. Joy. No. 1,336,436; Apr. 13; v. 273; p. 198.
Car, Railway-. T. N. Russell. No. 1,336,864; Apr. 13; v. 273; p. 280.
Car seat, Railway-. W. S. Wright. No. 1,335,950; Apr. 6; v. 273; p. 46.
Car, Tank-. A. E. Ostrander. No. 1,336,439; Apr. 13; v. 273; p. 198.
Car, Tank-. O. J. Parks. No. 1,338,392; Apr. 27; v. 273; p. 713.
Car-unloader. A. W. Crothamel. No. 1,337,047; Apr. 13; v. 273; p. 315.
Car-wheel. A. L. Carroll. No. 1,336,128; Apr. 6; v. 273; p. 80.
Cars and other vehicles, Combined dovetail and buffer or cushioning device for doors of motor-. A. S. Cheston. No. 1,337,042; Apr. 13; v. 273; p. 314.
Cars, Automatic checking and stopping apparatus for. F. L. Parr. No. 1,337,948; Apr. 20; v. 273; p. 561.
Cars, Combined propelling-motor and door-operating mechanism for. G. W. Meyers. No. 1,336,477; Apr. 13; v. 273; p. 205.
Cars, Metal roof for. F. M. Whyte. No. 1,336,993; Apr. 13; v. 273; p. 304.
Cars, Reinforced end structure for railway-. V. E. Sisson. No. 1,337,281; Apr. 20; v. 273; p. 433.
Cars, Tank-anchor for tank-. W. K. Auchincloss. No. 1,336,410; Apr. 13; v. 273; p. 193.
Cars, Word-displaying signaling device for automobile-. C. A. Swank. No. 1,338,047; Apr. 27; v. 273; p. 648.
Carbureter. D. L. F. Coombs. No. 1,336,070; Apr. 6; v. 273; p. 69.
Carbureter. C. de Lukacsevics. No. 1,337,051; Apr. 13; v. 273; p. 316.
Carbureter. C. V. Elliott. No. 1,336,288; Apr. 6; v. 273; p. 110.
Carbureter. J. T. Roffy. No. 1,338,330; Apr. 27; v. 273; p. 702.
Carbureters, Air-control mechanism for. O. Rice. No. 1,337,326; Apr. 20; v. 273; p. 442.
Carcass-dehairing machine. L. A. Kramer. No. 1,336,524; Apr. 13; v. 273; p. 214.
Card-accounting systems, Means employed in. H. H. van Santen. No. 1,336,992; Apr. 13; v. 273; p. 304.
Card-cleaning apparatus, Pneumatic. W. H. Goldsmith, Jr. No. 1,338,651; Apr. 27; v. 273; p. 761.
Card-holder and clamp, Combined. E. Bennett. No. 1,336,723; Apr. 13; v. 273; p. 253.
Card-rack. C. M. Crook. No. 1,335,822; Apr. 6; v. 273; p. 22.
Carding apparatus, Transit chute for safety-pin-. C. B. Goldsmith. No. 1,335,731; Apr. 6; v. 273; p. 5.
Carding-engines, Drum or cylinder of. J., W., and H. Platt. No. 1,337,470; Apr. 20; v. 273; p. 469.
Cargo-stop. H. D. Lathrop. No. 1,336,569; Apr. 13; v. 273; p. 223.
Carriage, Baby-. S. Biwoin. No. 1,336,725; Apr. 13; v. 273; p. 253.
Carriage for counter attachments. W. E. Hosch. No. 1,336,231; Apr. 6; v. 273; p. 100.
Carriage-top. C. A. Lindberg. No. 1,338,026; Aug. 27; v. 273; p. 644.
Carrier: *See*—
Bottle-carrier. Package and article carrier.
Drier-carrier.
Overhead carrier. Tire-carrier.
Carrier. B. F. Kelly. No. 1,337,518; Apr. 20; v. 273; p. 487.
Cart-seat. C. H. Turner. No. 1,337,295; Apr. 20; v. 273; p. 436.
Cartons or boxes, Apparatus for forming. W. P. McGeouch and G. C. Beckwith. No. 1,337,845; Apr. 20; v. 273; p. 540.
Cartons, Sanitary package of individual sealed. J. W. McAuliffe. No. 1,338,315; Apr. 27; v. 273; p. 699.
Case: *See*—
Dental toilet-case. Show-case.
Display-case.
Case-hardening apparatus. A. W. Machlet. No. 1,337,244; Apr. 20; v. 273; p. 426.
Cash-register. L. E. Clement. No. 1,337,441; Apr. 20; v. 273; p. 463.
Cash-register. F. L. Fuller. No. 1,336,693; Apr. 18; v. 273; p. 247.
Casket. L. P. H. Bourk. No. 1,335,722; Apr. 6; v. 273; p. 4.

Casket-handle. F. E. Roberts. No. 1,337,273; Apr. 20; v. 273; p. 432.
Caster. J. S. Cantelo. No. 1,338,356; Apr. 27; v. 273; p. 707.
Caster. C. G. Overmyer. No. 1,338,249; Apr. 27; v. 273; p. 686.
Caster, Double-wheel antifriction-. E. Payson, No. 1,338,325; Apr. 27; v. 273; p. 701.
Caster, Furniture-. A. Czyzyk. No. 1,337,344; Apr. 20; v. 273; p. 446.
Casting metal. W. H. Warren. No. 1,336,768; Apr. 13; v. 273; p. 261.
Casting apparatus, Metal-. W. H. Warren. No. 1,336,767; Apr. 13; v. 273; p. 263.
Casting molds, Composition for. J. Lucas. No. 1,338,141; Apr. 27; v. 273; p. 666.
Catch, Pin safety-. G. W. Bainton. No. 1,337,114; Apr. 13; v. 273; p. 328.
Cattle-guard. W. O. Fink. No. 1,338,006; Apr. 27; v. 273; p. 640.
Cellulose and making same, Acetyl. W. G. Lindsay. No. 1,338,661; Apr. 27; v. 273; p. 763.
Cement. D. W. Adamson. No. 1,338,117; Apr. 27; v. 273; p. 662.
Cement. G. Witty. No. 1,336,178; Apr. 6; v. 273; p. 90.
Cement and alkali from alkaliferous mineral substances and lime, Manufacturing simultaneously hydraulic. E. W. Jungner. No. 1,338,021; Apr. 27; v. 273; p. 643.
Cement-molding apparatus. C. F. Ruby. No. 1,336,539; Apr. 13; v. 273; p. 217.
Cement, Non-porous. F. D. Mulligan. No. 1,338,033; Apr. 27; v. 273; p. 646.
Cement-tile pallets, Inner liner for. R. B. Sands. No. 1,336,865; Apr. 13; v. 273; p. 280.
Center. J. Kermath. No. 1,336,843; Apr. 13; v. 273; p. 276.
Centrifugal machine. A. H. Gibson. No. 1,336,779; Apr. 13; v. 273; p. 263.
Ceramic article. S. C. Linbarger. No. 1,336,751; Apr. 13; v. 273; p. 258.
Ceramic composition. O. Gerber. No. 1,336,740; Apr. 13; v. 273 p. 256.
Ceramic firing, Ware-support for. B. B. Swinnerton. No. 1,336,762; Apr. 13; v. 273; p. 260.
Cereal-scouring machine. G. E. Friedrich. No. 1,337,127; Apr. 13; v. 273; p. 330.
Chain, Antiskid-. E. R. Klemm. No. 1,338,087; Apr. 27; v. 273; p. 656.
Chain-coupling. G. V. Mathias. No. 1,337,846; Apr. 20; v. 273; p. 541.
Chain, Driving-. E. Fuchs. No. 1,338,293; Apr. 27; v. 273; p. 695.
Chain-lock. A. I. Varney. No. 1,337,419; Apr. 20; v. 273; p. 459.
Chain, Non-skid. E. H. Hodges. No. 1,338,626; Apr. 27; v. 273; p. 756.
Chain-tightener. A. C. Carlsen. No. 1,336,679; Apr. 13; v. 273; p. 244.
Chain-tightener device. L. V. Uglow. No. 1,337,534; Apr. 20; v. 273; p. 482.
Chains, Self-adjusting device for holding and tensioning antiskid-. F. L. Folwell. No. 1,338,646; Apr. 27; v. 273; p. 760.
Chair: *See*—
Barber-chair. Rail-chair.
Bed-chair. Revolving chair.
Boudoir-chair. Theater-chair.
Infant-chair.
Chair. S. Kesselman. No. 1,335,973; Apr. 6; v. 273; p. 51.
Chair adjustment. O. Elton. No. 1,335,884; Apr. 6; v. 273; p. 34.
Chair-iron. D. R. Collier. No. 1,336,509; Apr. 13; v. 273; p. 211.
Chair-iron. D. R. Collier. No. 1,336,510; Apr. 13; v. 273; p. 211.
Chair-iron. O. Elton. No. 1,335,883; Apr. 6; v. 273; p. 34.
Chairs, Pedestal-base for barber-. W. F. Koken. No. 1,337,608; Apr. 20; v. 273; p. 495.
Chairs, Seat-frame for barber-. W. F. Koken. No. 1,337,609; Apr. 20; v. 273; p. 495.
Chairs to floors, Means for detachably securing. J. A. Lambert. No. 1,335,842; Apr. 6; v. 273; p. 26.
Chart, Dental. A. J. Bush. No. 1,338,068; Apr. 27; v. 273; p. 652.
Chart, Musical-instruction. C. R. McNeil. No. 1,338,236; Apr. 27; v. 273; p. 684.
Chart, Ship's position-plotting. F. E. Uttmark. No. 1,337,168; Apr. 13; v. 273; p. 337.
Check, Baggage-. R. L. Porter. No. 1,337,722; Apr. 20; v. 273; p. 517.
Check, Bank-. J. L. Miller. No. 1,336,647; Apr. 13; v. 273; p. 238.
Check, Door-. W. W. Albright. No. 1,338,205; Apr. 27; v. 273; p. 678.
Check holder, Sales-. T. R. F. Potter. No. 1,336,922; Apr. 13; v. 273; p. 291.
Check-writing machine. B. O. Fanslow. No. 1,337,006; Apr. 13; v. 273; p. 307.
Cherry-pitter. T. F. Morse. No. 1,336,852; Apr. 13; v. 273; p. 278.
Chill-mold. W. H. Nichols. No. 1,336,259; Apr. 6; v. 273; p. 105.
Chill-mold. W. H. Nichols. No. 1,336,260; Apr. 6; v. 273; p. 105.
Chimney. R. S. Bassett. No. 1,337,746; Apr. 20; v. 273; p. 522.
China-burnishing machine. P. M. Disinger. No. 1,336,685; Apr. 13; v. 273; p. 246.
Chiropractic table. A. A. Griffin. No. 1,337,311; Apr. 20; v. 273; p. 439.
Chiropractic table. A. A. Griffin. No. 1,337,312; Apr. 20; v. 273; p. 440.
Chisel, Cold-. G. A. Kissinger. No. 1,336,631; Apr. 13; v. 273; p. 235.
Chlorids, Process and apparatus for the electrolytic decomposition of. B. Cataldi. No. 1,336,281; Apr. 6; v. 273; p. 109.
Chlorin liquefaction. C. T. Henderson. No. 1,338,654; Apr. 27; v. 273; p. 762.
Chock, Safety-. C. P. Read. No. 1,336,442; Apr. 13; v. 273; p. 199.
Chopping attachment. G. N. Chenault. No. 1,336,727; Apr. 13; v. 273; p. 254.
Chronometer-escapement. S. Tideman. No. 1,336,263; Apr. 6; v. 273; p. 106.
Chucks, Method and apparatus for alining work on V-blocks for magnetic. F. L. Simmons. No. 1,336,928; Apr. 13; v. 273; p. 293.
Churn. A. Lapka. No. 1,337,777; Apr. 20; v. 273; p. 528.
Churn. G. P. A. Weisenborn. No. 1,337,864; Apr. 20; v. 544.
Churn-operating devices, Hydraulic motor for. A. Roos. No. 1,338,399; Apr. 27; v. 273; p. 714.
Churn-support. M. C. Kennerly. No. 1,337,362; Apr. 20; v. 273; p. 449.
Cigar-tip cutter. C. Berberich. No. 1,336,724; Apr. 13; v. 273; p. 253.
Cigarette. J. Richter. No. 1,338,529; Apr. 27; v. 273; p. 730.
Cinematograph-machine shutter. E. Tassie. No. 1,338,596; Apr. 27; v. 273; p. 751.
Circuit-breaker. N. J. Conrad. No. 1,336,069; Apr. 6; v. 273; p. 69.
Circuit-breaker. T. Midgley, Jr. No. 1,337,366; Apr. 20; v. 273; p. 449.
Circuit-breaker, Float-operated. W. Zebell. No. 1,336,269; Apr. 6; v. 273; p. 107.
Circuit-breaker-indicating device. C. F. Kettering. No. 1,336,142; Apr. 6; v. 273; p. 83.
Circuit-breaker-indicating device. C. F. Kettering. No. 1,336,143; Apr. 6; v. 273; p. 83.
Circuit-closer for liquid-level indicators. G. E. Mills. No. 1,337,252; Apr. 20; v. 273; p. 428.
Circuit-controlling mechanism. I. W. Broegger. No. 1,336,418; Aug. 13; v. 273; p. 195.
Circuit-interrupter. J. Slepian. No. 1,338,334; Apr. 27; v. 273; p. 705.
Circuits, Regulating system for alternating-current. E. F. W. Alexanderson. No. 1,337,875; Apr. 20; v. 273; p. 546.
Circuits, Regulating system for alternating-current. L. W. Thompson. No. 1,337,854; Apr. 20; v. 273; p. 542.
Circuits, Regulating system for alternating-current. L. W. Thompson. No. 1,337,855; Apr. 20; v. 273; p. 542.
Clam-digger. A. W. Crago. No. 1,336,203; Apr. 6; v. 273; p. 94.
Clamp: *See*—
Guide-clamp. Squaring-clamp.
Rail-clamp. Wire-rope clamp.
Rope-clamp.
Clamp. A. H. Weston and R. H. Peters. No. 1,336,667; Apr. 13; v. 273; p. 241.
Clamping device. J. Ruoff. No. 1,337,484; Apr. 20; v. 273; p. 471.
Cleaner: *See*—
Boiler-tube cleaner. Excavator-bucket cleaner.
Burner-tip cleaner. Gun-cleaner.
Eraser-cleaner. Vacuum-cleaner.
Clasp: *See*—
Envelop-clasp. Paper-fastening clasp.
Classifying finely-divided material. W. A. Schmidt. No. 1,335,758; Apr. 6; v. 273; p. 10.
Cleaner: *See*—
Keyboard-cleaner. Suction-cleaner.
Shoe-cleaner.
Clip: *See*—
Plant-supporting clip.
Clip. C. W. Cass and W. L. Baxter. No. 1,336,129; Apr. 6; v. 273; p. 81.
Clip. A. C. Klenke. No. 1,337,607; Apr. 20; v. 273; p. 495.
Clip. A. Rolfe. No. 1,337,963; Apr. 20; v. 273; p. 563.
Clock and signal system, Electric. H. C. Prey. No. 1,336,318; Apr. 6; v. 273; p. 116.
Clock, Calendar-. A. Niemczura. No. 1,336,150; Apr. 6; v. 273; p. 84.
Clock, Saving-. F. R. Bull. No. 1,337,539; Apr. 20; v. 273; p. 482.
Clock, Saving-. A. G. P. Wilgaard. No. 1,338,543; Apr. 27; v. 273; p. 741.
Clock-spring. M. G. Stageberg. No. 1,337,097; Apr. 13; v. 273; p. 324.
Clock, Synchronizing-. C. E. Larrabee. No. 1,338,309; Apr. 27; v. 273; p. 698.
Clock system. A. F. Poole. No. 1,338,328; Apr. 27; v. 273; p. 701.

Clocks, Dial-mat fastening for. W. L. Crouch and A. E. Rust. No. 1,336,204; Apr. 6; v. 273; p. 95.
Clockwork. G. Braunschweig. No. 1,338,609; Apr. 27; v. 273; p. 753.
Clod-crusher. S. H. Musgrave. No. 1,338,391; Apr. 27; v. 273; p. 713.
Closet-seat. W. E. Sloan. No. 1,337,730; Apr. 20; v. 273; p. 519.
Closure. A. Benzinger. No. 1,336,811; Apr. 13; v. 273; p. 270.
Cloth-cutting machine. M. Zawistowski. No. 1,338,478; Apr. 27; v. 273; p. 729.
Cloth-driers, Heated-air-supply apparatus for. F. F. McIver, Jr. No. 1,338,513; Apr. 27; v. 273; p. 736.
Cloth-laying machine. M. Isaacs. No. 1,338,570; Apr. 27; v. 273; p. 746.
Clothesline-support. F. Baron. No. 1,336,186; Apr. 6; v. 273; p. 91.
Clothespin. B. A. Bridges. No. 1,337,434; Apr. 20; v. 273; p. 462.
Clothes-washer. E. Beatty. No. 1,338,277; Apr. 27; v. 273; p. 692.
Clothes-wringer. C. F. Bronner. No. 1,336,883; Apr. 13; v. 273; p. 284.
Clouds, fogs, or mists, Process and apparatus for the production of intense artificial. P. Weiss and J. Verdier. No. 1,338,343; Apr. 27; v. 273; p. 704.
Clutch, Automatic. A. H. Manning. No. 1,336,472; Apr. 13; v. 273; p. 204.
Clutch, Friction-. C. O. Hansen. No. 1,338,298; Apr. 27; v. 273; p. 695.
Clutch, Friction-. A. Mill. No. 1,335,748; Apr. 6; v. 273; p. 8.
Cluch mechanism. L. H. Kaupke. No. 1,338,139; Apr. 27; v. 273; p. 666.
Coal, Treating. J. N. Wingett. No. 1,337,496; Apr. 20; v. 273; p. 474.
Coaster. R. K. Whitney. No. 1,336,456; Apr. 13; v. 273; p. 201.
Coaster-brake. C. W. Svenson. No. 1,337,624; Apr. 20; v. 273; p. 498.
Coating process. W. Alexander. No. 1,337,380; Apr. 20; v. 273; p. 452.
Cobalt, Recovering. M. J. Udy. No. 1,336,765; Apr. 13; v. 273; p. 261.
Cock, Ball-. A. Hohmeister. No. 1,338,179; Apr. 27; v. 273; p. 673.
Coffee-mill, Vertical. K. S. Stenbo. No. 1,336,793; Apr. 13; v. 273; p. 266.
Coil-box protector. P. C. Morris. No. 1,338,581; Apr. 27; v. 273; p. 748.
Coin-controlling register. J. W. Hughes. No. 1,336,628; Apr. 13; v. 273; p. 234.
Coin-freed stamping apparatus. F. Hilton. No. 1,336,960; Apr. 13; v. 273; p. 298.
Coin-wrapper. W. J. Morgan. No. 1,337,941; Apr. 20; v. 273; p. 559.
Collapsible block. A. Kenworthy. No. 1,337,017; Apr. 13; v. 273; p. 309.
Collapsible box. A. V. Trego. No. 1,337,167; Apr. 13; v. 273; p. 337.
Collar-fastener. J. B. Maxfield. No. 1,336,147; Apr. 6; v. 273; p. 84.
Collar-supporter. C. W. Ahrens. No. 1,337,989; Apr. 27; v. 273; p. 637.
Combustion apparatus. L. L. Scott. No. 1,336,261; Apr. 6; v. 273; p. 105.
Combustion-chambers, Means for feeding fuel to. V. Z. Caracristi. No. 1,336,125; Apr. 6; v. 273; p. 80.
Commutator. J. W. Pearson. No. 1,338,092; Apr. 27; v. 273; p. 657.
Composition of matter and making same. H. Blumenberg, Jr. No. 1,338,279; Apr. 27; v. 273; p. 692.
Compression-tester. L. M. Knapp. No. 1,337,455; Apr. 20; v. 273; p. 466.
Compressor. V. Arluskes. No. 1,337,501; Apr. 20; v. 273; p. 475.
Compressors, Automatic sealer and lubricator for refrigerating-. J. Ellmauer. No. 1,336,076; Apr. 6; v. 273; p. 70.
Concentrating-table. C. W. Wright. No. 1,336,327; Apr. 6; v. 273; p. 117.
Concentrator and classifier, Combination. A. E. Keables. No. 1,336,963; Apr. 13; v. 273; p. 299.
Concrete building. F. M. Barton. No. 1,335,780; Apr. 6; v. 273; p. 15.
Concrete building-block, Reinforced-. G. A. Johnson. No. 1,338,509; Apr. 27; v. 273; p. 735.
Concrete floor construction, Reinforced-. D. J. Flynn. No. 1,338,567; Apr. 27; v. 273; p. 746.
Concrete-mixer. E. W. Brackenbury. No. 1,335,934; Apr. 6; v. 273; p. 43.
Concrete pile and panel, Reinforced-. E. K. Hand. No. 1,338,503; Apr. 27; v. 273; p. 734.
Concrete pipes, Mold for manufacture of. A. Porri. No. 1,336,857; Apr. 13; v. 273; p. 279.
Concrete-reinforcing means. E. Smulski. No. 1,336,166; Apr. 6; v. 273; p. 87.
Concrete structures, Framework for reinforcing and shaping. F. A. Wright. No. 1,336,547; Apr. 13; v. 273; p. 219
Concrete units, Making. A. G. Aurand. No. 1,336,712; Apr. 13; v. 273; p. 251.
Condensation product and making it, Soluble. O. Schmidt. No. 1,336,759; Apr. 13; v. 273; p. 260.
Condenser. R. J. Fitzgerald. No. 1,337,549; Apr. 20; v. 273; p. 484.
Condensers, Building-stand for. B. Macpherson. No. 1,337,246; Apr. 20; v. 273; p. 427.
Condensers, Revealing process for. B. Macpherson. No. 1,337,245; Apr. 20; v. 273; p. 427.
Condensing apparatus. J. B. Cottard. No. 1,337,200; Apr. 20; v. 273; p. 418.
Cones, Machine for making pastry-. P. Arduin. No. 1,337,500; Apr. 20; v. 273; p. 475.
Confection-box. W. W. Wachtel. No. 1,336,874; Apr. 13; v. 273; p. 282.
Confection-making apparatus. T. Bosshard. No. 1,338,354; Apr. 27; v. 273; p. 707.
Construction material, Making. R. P. Perry. No. 1,338,057; Apr. 27; v. 273; p. 647.
Container, Collapsible. J. R. and M. B. Driver. No. 1,336,895; Apr. 13; v. 273; p. 286.
Container, Condiment-. E. Nicholas. No. 1,337,789; Apr. 20; v. 273; p. 530.
Container-holder. S. Frey. No. 1,337,010; Apr. 13; v. 273; p. 308.
Container-piercing and tank-filling machine. A. E. King. No. 1,337,558; Apr. 20; v. 273; p. 485.
Container, Sanitary. C. O. Chromaster. No. 1,337,195; Apr. 20; v. 273; p. 417.
Container, Storage-. J. R. and M. B. Driver. No. 1,336,896; Apr. 13; v. 273; p. 286.
Contractor-expander. A. C. Hoecker. No. 1,337,652; Apr. 20; v. 273; p. 503.
Control apparatus. A. J. Hall. No. 1,336,560; Apr. 13; v. 273; p. 221.
Control apparatus. P. L. Mardis. No. 1,336,574; Apr. 13; v. 273; p. 224.
Control apparatus. F. G. Moard. No. 1,338,321; Apr. 27; v. 273; p. 700.
Control apparatus. L. G. Riley. No 1,336,583; Apr. 13; v. 273; p. 226.
Control apparatus. N. W. Storer. No. 1,336,596; Apr. 13; v. 273; p. 228.
Control system. R. E. Hellmund. No. 1,336,562; Apr. 13; v. 273; p. 222.
Control system. W. M. Scott. No. 1,336,488; Apr. 13; v. 273; p. 207.
Control system. K. A. Simmons. No. 1,338,333; Apr. 27; v. 273; p. 702.
Controller. T. S. Pukerud. No. 1,336,582; Apr. 13; v. 273; p. 225.
Converter, Vibratory. O. M. Leich. No. 1,338,380; Apr. 27; v. 273; p. 711.
Conveyer. G. Bernert. (Reissue.) No. 14,841; Apr. 20; v. 273; p. 568.
Conveyer and leer, Automatic. W. S. Mayers. No. 1,338,240; Apr. 27; v. 273; p. 685.
Conveying mechanism. R. Leumann. No. 1,336,304; Apr. 6; v. 273; p. 113.
Cooker and sterilizer, Cereal. A. Johnson. No. 1,336,079; Apr. 6; v. 273; p. 71.
Cooker, Pressure-. J. E. Waggoner. No. 1,337,981; Apr. 20; v. 273; p. 567.
Cooking device. W. Levy. No. 1,337,524; Apr. 20; v. 273; p. 579.
Cooking device. G. Tsekuras. No. 1,336,599; Apr. 13; v. 273; p. 229.
Cooking utensil. L. Armbruster. No. 1,338,547; Apr. 27; v. 273; p. 742.
Cooking utensil. H. O. Larson. No. 1,338,878; Apr. 27; v. 273; p. 711.
Cooler. D. W. Grant. No. 1,336,742; Apr. 13; v. 273; p. 256.
Copy-holder. A. S. Golanke. No. 1,336,834; Apr. 13; v. 273; p. 274.
Cord-cutter. A. A. Nelson. No. 1,338,248; Apr. 27; v. 273; p. 686.
Core, Expansible. C. Holm. No. 1,337,910; Apr. 20; v. 273; p. 553.
Core-plate for drying cores. H. C. Drumm. No. 1,337,005; Apr. 13; v. 273; p. 307.
Corn and callous remover. J. S. Zelaya. No. 1,335,777; Apr. 6; v. 273; p. 14.
Corn-cultivator attachment. W. H. Shannon. No. 1,338,594; Apr. 27; v. 273; p. 750.
Corn, Treating broom-. H. J. Broderson and S. W. Parr. No. 1,337,306; Apr. 20; v. 273; p. 429.
Cotter-extractor. W. E. Aylor. No. 1,336,938; Apr. 13; v. 273; p. 294.
Cotter-key. W. E. Aylor and M. Rauh. No. 1,336,498; Apr. 13; v. 273; p. 209.
Cotter-pin puller. A. L. Sandin. No. 1,338,043; Apr. 27; v. 273; p. 648.
Cotton-chopping machine. J. G. Sims. No. 1,336,708; Apr. 13; v. 273; p. 250.
Cotton-picker head. C. N. Wisner. No. 1,336,176; Apr. 6; v. 273; p. 89.
Cotton-picker's sack. C. B. Tipton. No. 1,337,859; Apr. 20; v. 273; p. 543.
Counter. C. P. Wetmore. No. 1,336,113; Apr. 6; v. 273; p. 78.
Coupling: *See*—
Car-coupling. Pipe and hose coupling.
Chain-coupling. Shaft-coupling.
Flexible coupling. Tubing-coupling.
Hose and pipe coupling.
Coupling. E. M. Stout. No. 1,336,323; Apr. 6; v. 273; p. 116.

Coupling. T. White. No. 1,336,326; Apr. 6; v. 273; p. 117.
Coupling attachment. A. J. Anderson. No. 1,336,181; Apr. 6; v. 273; p. 90.
Coupling or snap. H. G. Wernimont. No. 1,337,577; Apr. 20; v. 273; p. 489.
Cows, Antikicker for. D. H. McCuaig. No. 1,337,406; Apr. 20; v. 273; p. 457.
Cracker-can. F. P. Wood. No. 1,337,630; Apr. 20; v. 273; p. 499.
Cradle. C. Krey. No. 1,336,302; Apr. 6; v. 273; p. 113.
Crane. T. N. Garson. No. 1,337,400; Apr. 20; v. 273; p. 456.
Crank-shaft. C. A. Kuhn. No. 1,337,081; Apr. 13; v. 273; p. 322.
Crate, Folding. M. F. Bench. No. 1,338,608; Apr. 27; v. 273; p. 753.
Cream-separator neck-bearings, Cushion-spring for. C. O. Anderson. No. 1,337,987; Apr. 27; v. 273; p. 637.
Creeper. D. Brightwell. No. 1,336,276; Apr. 6; v. 273; p. 108.
Crusher: *See*—
Clod-crusher. Gyratory crusher.
Crutch. F. Klousnitzer. No. 1,336,844; Apr. 13; v. 273; p. 276.
Culinary device. W. J., C. R., and W. P. Fries. No. 1,338,129; Apr. 27; v. 273; p. 664.
Cultivator. J. W. Burke. No. 1,336,421; Apr. 13; v. 273; p. 195.
Cultivator. S. Clemens. No. 1,335,725; Apr. 6; v. 273; p. 4.
Cultivator. C. J. Gifford. No. 1,336,217; Apr. 6; v. 273; p. 97.
Cultivator. W. E. Marshall. No. 1,337,407; Apr. 20; v. 273; p. 457.
Cultivator, Spring-beam. J. G. Alexander. No. 1,335,928; Apr. 6; v. 273; p. 42.
Cup: *See*—
Grease-cup. Oil-cup.
Cup and releasable handle therefor. G. P. Iltenberg. No. 1,338,480; Apr. 27; v. 273; p. 730.
Cup-dispenser. L. W. Luellen. No. 1,337,843; Apr. 20; v. 273; p. 540.
Cupola-charging mechanism. L. W. Kellum. No. 1,335,741; Apr. 6; v. 273; p. 7.
Current circuits, Regulating system for alternating-. E. J. Murphy and L. W. Thompson. No. 1,337,942; Apr. 20; v. 273; p. 559.
Curtain and portière hanger. W. Rakowski. No. 1,336,047; Apr. 6; v. 273; p. 65.
Curtain and shade frame. A. J. Pukt. No. 1,337,370; Apr. 20; v. 273; p. 450.
Curtain-fixture. D. Hoyt. No. 1,335,968; Apr. 6; v. 273; p. 50.
Curtain-frame. J. O'Callahan. No. 1,335,854; Apr. 6; v. 273; p. 28.
Curtain-hanger. A. Lewandowsky. No. 1,338,312; Apr. 27; v. 273; p. 698.
Curtain-pole and shade supporting bracket. G. D. Bruce. No. 1,335,954; Apr. 6; v. 273; p. 47.
Curtain-pole and shade-roller holder. F. J. Wrona. No. 1,336,936; Apr. 13; v. 273; p. 294.
Curtain-pole support. R. G. Crosbie. No. 1,337,594; Apr. 20; v. 273; p. 492.
Curtains, Detachable light for vehicle-. D. M. Winans. No. 1,336,116; Apr. 6; v. 273; p. 78.
Curve pull-off hanger. J. R. Brown. No. 1,336,504; Apr. 13; v. 273; p. 210.
Cushion: *See*—
Seat-cushion.
Cutter: *See*—
Asphalt-cutter. Hair-cutter.
Bean or weed cutter. Milling-cutter.
Cigar-tip cutter. Rod-cutter.
Cord-cutter. Vine-cutter.
Food-cutter. Weed-cutter.
Cutting and folding machine. C. Gutberlet. No. 1,337,900; Apr. 20; v. 273; p. 551.
Cutting and folding machine. H. E. Leonard. No. 1,337,778; Apr. 20; v. 273; p. 528.
Cutting-machine. H. H. Eaton. No. 1,337,208; Apr. 20; v. 273; p. 420.
Cutting machine, Scroll-. J. H. Behee. No. 1,337,428; Apr. 20; v. 273; p. 461.
Cutting or sawing machinery. S. P. Blanckensee. No. 1,336,501; Apr. 13; v. 273; p. 209.
Cycles, Elastic suspension of. E. L. Viard and F. A. Bouillit. No. 1,335,765; Apr. 6; v. 273; p. 12.
Dandelion-rake. C. E. Roberts. No. 1,336,861; Apr. 13; v. 273; p. 279.
Darner. M. Ceska. No. 1,337,884; Apr. 20; v. 273; p. 548.
Davit. F. J. Super. No. 1,336,394; Apr. 6; v. 273; p. 130.
Davit, Lifeboat-. J. J. Eglit. No. 1,336,075; Apr. 6; v. 273; p. 70.
Decking apparatus. A. Copony. No. 1,336,201; Apr. 6; v. 273; p. 94.
Degreasing apparatus. C. C. Krouse. No. 1,338,308; Apr. 27; v. 273; p. 697.
Delivery mechanism. A. F. Harris. No. 1,337,223; Apr. 20; v. 273; p. 422.
Delivery mechanism for folded products. E. P. Sheldon. No. 1,336,445; Apr. 13; v. 273; p. 199.
Dental appliance. D. W. Barrow. No. 1,338,415; Apr. 27; v. 273; p. 715.
Dental instrument. J. E. Reid and C. Kienle. No. 1,335,987; Apr. 6; v. 273; p. 54.
Dental toilet-case. G. T. Cornelius. No. 1,336,845; Apr. 6; v. 273; p. 121.
Detachable wheel. W. L. Regnier. No. 1,337,271; Apr. 20; v. 273; p. 432.
Dial. J. Macé. No. 1,337,243; Apr. 20; v. 273; p. 426.
Diaphragm-sounder. H. S. A. Rydberg. No. 1,335,921; Apr. 6; v. 273; p. 41.
Die: *See*—
Power-hammer die.
Die. F. E. Mueller. No. 1,335,907; Apr. 6; v. 273; p. 38.
Die. F. E. Mueller. No. 1,335,908; Apr. 6; v. 273; p. 39.
Die. C. W. Youngberg. No. 1,336,888; Apr. 6; v. 273; p. 129.
Die-casting machine. A. Hakanson. No. 1,338,622; Apr. 27; v. 273; p. 756.
Die forming and trimming apparatus. H. J. Smith and E. P. Everett. No. 1,337,796; Apr. 20; v. 273; p. 531.
Die-press, Automatic. W. Cameron. No. 1,337,307; Apr. 20; v. 273; p. 439.
Dies and a hub or sinker therefor, Manufacturing. J. Giebel and F. H. Zimmerman. (Reissue.) No. 14,835; Apr. 6; v. 273; p. 133.
Diestocks, Self-oiling handle for. R. V. Newsham. No. 1,336,575; Apr. 13; v. 273; p. 224.
Digger: *See*—
Clam-digger. Posthole-digger.
Digging-implement guard. G. W. Kirkpatrick. No. 1,336,630; Apr. 13; v. 273; p. 235.
Dioxid, Apparatus for producing sulfur. H. K. Lyon. No. 1,337,561; Apr. 20; v. 273; p. 486.
Disazodyestuffs able to be chromated. E. Reber. No. 1,338,397; Apr. 27; v. 273; p. 714.
Disazodyestuffs dyeing mordanted fibers. C. Jagerspacher and M. Isler. No. 1,338,506; Apr. 27; v. 273; p. 735.
Dishcloth-holder. J. H. Soehren. No. 1,338,107; Apr. 27; v. 273; p. 660.
Dish, Laboratory-. J. J. Mojonnier. No. 1,336,043; Apr. 6; v. 273; p. 64.
Dishpan-support. O. D. Burdick. No. 1,338,486; Apr. 27; v. 273; p. 731.
Disinfectant, antiseptic, deodorant, or detergent. C. Billing. No. 1,336,272; Apr. 6; v. 273; p. 107.
Disk-record holder. F. Grammich. No. 1,336,293; Apr. 6; v. 273; p. 111.
Disk-sorting machine. T. Aliatt. No. 1,337,031; Apr. 13; v. 273; p. 312.
Disk, Vibratory. P. Lachman and G. Thomas. No. 1,336,036; Apr. 6; v. 273; p. 63.
Dispensing apparatus. L. W. Luellen. No. 1,336,469; Apr. 13; v. 273; p. 204.
Dispensing device. W. P. Hammond and L. W. Luellen. No. 1,337,838; Apr. 20; v. 273; p. 539.
Display box or carton. F. M. Perez. No. 1,338,394; Apr. 27; v. 273; p. 714.
Display-case. W. H. Gallagher. No. 1,336,899; Apr. 13; v. 273; p. 287.
Display publicity by machine, Framework for. C. R. Finch. No. 1,336,831; Apr. 13; v. 273; p. 273.
Display-support. W. B. and W. J. Blackwell. No. 1,337,816; Apr. 20; v. 273; p. 534.
Distillation, Apparatus for. V. L. Emerson. No. 1,337,831; Apr. 20; v. 273; p. 537.
Distillation, Destructive. C. Turner. No. 1,336,264; Apr. 6; v. 273; p. 106.
Distribution of articles, Machine for effecting orderly. T. Gensmer and G. F. Lieberman. No. 1,336,778; Apr. 13; v. 273; p. 263.
Distribution of articles, particularly buttons, Machine for effecting orderly. A. J. Matter and F. V. Conley. No. 1,336,785; Apr. 13; v. 273; p. 265.
Dock, Floating wooden dry-. J. L. Bryne. No. 1,336,941; Apr. 13; v. 273; p. 295.
Doll, Comic. O. A. Flynn. No. 1,336,898; Apr. 13; v. 273; p. 287.
Doll, Walking. H. Trabert. No. 1,335,804; Apr. 6; v. 273; p. 19.
Dolly extension. G. A. De Graff. No. 1,336,073; Apr. 6; v. 273; p. 70.
Door. J. Johnson. No. 1,335,838; Apr. 6; v. 273; p. 25.
Door, Automatically-closing bulkhead-. T. J. Foerster and L. J. Pfund. No. 1,337,060; Apr. 13; v. 273; p. 318.
Door-catch. A. Drummund. No. 1,336,897; Apr. 13; v. 273; p. 287.
Door-controlling apparatus. W. P. Dorl. No. 1,338,073; Apr. 27; v. 273; p. 653.
Door-controlling device. C. W. Potts. No. 1,337,954; Apr. 20; v. 273; p. 562.
Door-fastener. H. K. Buggeln. No. 1,336,505; Apr. 13; v. 273; p. 210.
Door-fastening device, Automatically-operating hood-. W. H. Farr. No. 1,335,958; Apr 6; v. 273; p. 48.
Door, Grain-. P. Chesebro. No. 1,336,068; Apr. 6; v. 273; p. 69.
Door-handle, Self-seating. G. W. Kennington. No. 1,337,918; Apr. 20; v. 273; p. 554.
Door-holder. H. G. Voight. No. 1,338,052; Apr. 27; v. 273; p. 649.
Door-lock. J. Codos and B. May. No. 1,336,617; Apr. 13; v. 273; p. 232.

Door-opener. E. E. Allen. No. 1,337,384; Apr. 20; v. 273; p. 453.
Door-operating device, Barn-. J. F. Lindberg. No. 1,338,027; Apr. 27; v. 273; p. 645.
Door-operating mechanism. G. R. Leach. No. 1,338,379; Apr. 27; v. 273; p. 711.
Door-spring. E. V. Gandil. No. 1,337,763; Apr. 20; v. 273; p. 525.
Door-stop. W. J. Kelly. No. 1,338,571; Apr. 27; v. 273; p. 746.
Door stop and lock. F. and O. Paulus. No. 1,336,535; Apr. 13; v. 273; p. 216.
Doors, Automatic lock device for. C. F. Bradley. No. 1,337,638; Apr. 20; v. 273; p. 501.
Doors, Controlling mechanism for. F. N. Pearson. No. 1,335,750; Apr. 6; v. 273; p. 9.
Double-seaming stake. J. Olson. No. 1,337,466; Apr. 20; v. 273; p. 468.
Douche-tip. M. M. Shafer. No. 1,338,464; Apr. 27; v. 273; p. 727.
Dough cutting and molding machine. A. Peters. No. 1,337,152; Apr. 13; v. 273; p. 334.
Dough-mixers, Reversible, double-speed, friction and gear drive for. F. X. Lauterbur. No. 1,336,783; Apr. 13; v. 273; p. 264.
Dough-mixing machine. F. M. Jones. No. 1,335,737; Apr. 6; v. 273; p. 6.
Doughs, pastes, &c., Apparatus for determining the specific gravity of. L. C. Reese. No. 1,337,410; Apr. 20; v. 273; p. 458.
Draft device. L. B. Doe. No. 1,336,735; Apr. 13; v. 273; p. 255.
Draft mechanism. J. O. Neikirk. No. 1,337,090; Apr. 13; v. 273; p. 323.
Draft-regulating device. W. A. Mitchell. No. 1,337,786; Apr. 20; v. 273; p. 529.
Drafting-machine. A. C. La May. No. 1,336,241; Apr. p; v. 273; p. 102.
Drain-tile mold. W. F. Sloan. No. 1,336,867; Apr. 13; v. 273; p. 280.
Drawing-press. R. S. Smith. No. 1,338,335; Apr. 27; v. 273; p. 703.
Drawing-table. M. K. Schauer. No. 1,338,254; Apr. 27; v. 273; p. 687.
Dress-marker. L. A. Wheeler. No. 1,338,602; Apr. 27; v. 273; p. 752.
Drier: *See*—
Sand-drier.
Drier-carrier. F. L. Furbush. No. 1,337,351; Apr. 20; v. 273; p. 447.
Drying apparatus. F. V. Burman. No. 1,336,422; Apr. 13; v. 273; p. 195.
Drill: *See*—
Air-drill. Boring-drill.
Drill. F. R. Weathersby. No. 1,336,006; Apr. 6; v. 273; p. 57.
Drill-bit. G. A. Humason. No. 1,337,913; Apr. 20; v. 273; p. 553.
Drill-presses, Oiler for. C. H. Woolson. No. 1,337,682; Apr. 20; v. 273; p. 509.
Drilling, riveting, and like machine. C. Jackson. No. 1,338,019; Apr. 27; v. 273; p. 643.
Drinking-fountain. E. F. Bowman. No. 1,337,637; Apr. 20; v. 273; p. 500.
Drinking-fountain. W. Doucette. No. 1,336,401; Apr. 6; v. 273; p. 131.
Drinks, Producing soft. A. L. Straus. No. 1,337,027; Apr. 13; v. 273; p. 311.
Driving mechanism. A. Benson. No. 1,337,634; Apr. 20; v. 273; p. 500.
Driving or stopping mechanism. F. Ashworth. No. 1,337,992; Apr. 27; v. 273; p. 638.
Drum tightening-ear. C. S. Walton. No. 1,335,867; Apr. 6; v. 273; p. 30.
Dust and lint collecting system. S. J. B. Whited. No. 1,336,007; Apr. 6; v. 273; p. 57.
Dye recovery. E. J. Wall. No. 1,337,673; Apr. 20; v. 273; p. 507.
Dye-stick. W. V. Foley. No. 1,337,009; Apr. 13; v. 273; p. 308.
Dyes effective for infra-red radiation, Making photo-sensitizing-. E. Q. Adams and L. E. Wise. No. 1,338,349; Apr. 27; v. 273; p. 706.
Dyes of the isocyanin type, Making photographic sensitizing-. L. E. Wise and E. Q. Adams. No. 1,338,346; Apr. 27; v. 273; p. 705.
Dyeing-machine. H. M. Dudley. No. 1,338,217; Apr. 27; v. 273; p. 681.
Dyeing-machine. H. M. Dudley. No. 1,338,218; Apr. 27; v. 273; p. 681.
Dyeing of furs and the products resulting therefrom, Electrical process and apparatus for the. J. E. Bloom. No. 1,338,353; Apr. 27; v. 273; p. 706.
Ear-bandage for infants. E. R. Parvin. No. 1,338,090; Apr. 27; v. 273; p. 656.
Earthenware, Making sanitary. E. H. Lawrence. No. 1,337,663; Apr. 20; v. 273; p. 506.
Earthy material, Machine for treating. M. A. Popkess. No. 1,337,953; Apr. 20; v. 273; p. 561.
Egg-beater. L. Ullman. No. 1,337,860; Apr. 20; v. 273; p. 543.
Egg-beaters, Water-motor for. R. L. Long. No. 1,337,478; Apr. 20; v. 273; p. 470.
Egg-boiler. G. Alfisi. No. 1,337,876; Apr. 20; v. 273; p. 546.
Egg-case filler. C. E. La Fleur. No. 1,337,978; Apr. 20; v. 273; p. 566.
Electric-cable-connecting means. J. M. Kiefer, Jr. No. 1,336,437; Apr. 13; v. 273; p. 198.
Electric furnace. L. Almagia and E. Guerreschi. No. 1,336,807; Apr. 13; v. 273; p. 269.
Electric furnace. S. Barfoed. No. 1,336,939; Apr. 13; v. 273; p. 295.
Electric furnace. E. L. Crosby. No. 1,336,820; Apr. 13; v. 273; p. 271.
Electric furnace. J. Herlenius. No. 1,338,631; Apr. 27; v. 273; p. 757.
Electric furnace. J. A. Pickens. No. 1,337,156; Apr. 13; v. 273; p. 335.
Electric generator. F. J. Whitcomb. No. 1,337,739; Apr. 20; v. 273; p. 520.
Electric-generator regulator. H. E. Borger. No. 1,336,416; Apr. 13; v. 273; p. 194.
Electric heater. E. W. Brown. No. 1,336,021; Apr. 6; v. 273; p. 60.
Electric ignition systems, Mechanical interrupter for. A. Krauss. No. 1,337,456; Apr. 20; v. 273; p. 466.
Electric-light bulbs, Wrapper for packing. J. E. Clenny and G. S. Wright. No. 1,337,592; Apr. 20; v. 273; p. 492.
Electric-light switch. F. S. Riggs. No. 1,335,753; Apr. 6; v. 273; p. 10.
Electric machines, Protecting means for dynamo-. J. H. Hertner. No. 1,336,520; Apr. 13; v. 273; p. 213.
Electric motor. S. Boardman. No. 1,337,686; Apr. 20; v. 273; p. 510.
Electric motor. L. Foote. No. 1,338,568; Apr. 27; v. 273; p. 746.
Electric oscillator. G. M. J. Mackay. No. 1,337,933; Apr. 20; v. 273; p. 558.
Electric socket and lamp protector. F. Stolzenwald. No. 1,336,761; Apr. 13; v. 273; p. 260.
Electric switch. W. E. Bell. No. 1,338,607; Apr. 27; v. 273; p. 753.
Electric switch. H. E. Campbell. No. 1,335,936; Apr. 6; v. 273; p. 44.
Electric switch. H. G. French. No. 1,337,895; Apr. 20; v. 273; p. 550.
Electric switch. F. P. Gates. No. 1,337,011; Apr. 13; v. 273; p. 308.
Electric switch. C. D. Platt. No. 1,337,469; Apr. 20; v. 273; p. 469.
Electric switch. A. E. Rishel. No. 1,337,961; Apr. 20; v. 273; p. 563.
Electric switch. W. B. Templeton. No. 1,337,105; Apr. 13; v. 273; p. 326.
Electric switch. J. R. Townsend. No. 1,337,628; Apr. 20; v. 273; p. 499.
Electric switch. C. L. White. No. 1,336,455; Apr. 13; v. 273; p. 201.
Electric switch or circuit-breaker. G. A. Burnham. No. 1,337,995; Apr. 27; v. 273; p. 638.
Electric switches, Controlling mechanism for. C. D. Oversmith. No. 1,337,022; Apr. 13; v. 273; p. 310.
Electric system. J. L. Creveling. No. 1,336,619; Apr. 13; v. 273; p. 233.
Electric wires, Cord-terminal for. A. L. Emens. No. 1,335,943; Apr. 6; v. 273; p. 45.
Electrical apparatus. W. I. Thomson. No. 1,336,764; Apr. 13; v. 273; p. 260.
Electrical condenser. W. C. Brinton, Jr. No. 1,337,505; Apr. 20; v. 273; p. 476.
Electrical-conductor connector. H. F. Maxim. No. 1,336,850; Apr. 13; v. 273; p. 278.
Electrical connecting device. R. B. Benjamin. No. 1,336,608; Apr. 13; v. 273; p. 231.
Electrical connector. G. A. Mead. No. 1,336,475; Apr. 13; v. 273; p. 205.
Electrical connector. C. R. Wassell. No. 1,336,801; Apr. 13; v. 273; p. 268.
Electrical distribution and control, System of. C. F. Kettering. No. 1,337,363; Apr. 20; v. 273; p. 449.
Electrical energy, Distribution of. C. Grover. No. 1,337,129; Apr. 13; v. 273; p. 330.
Electrical fitting. M. F. Finkelstein. No. 1,336,290; Apr. 6; v. 273; p. 110.
Electrical generation and control, System of. C. F. Kettering. No. 1,337,364; Apr. 20; v. 273; p. 449.
Electrical-heater resistance element. W. E. Gardner. No. 1,338,294; Apr. 27; v. 273; p. 695.
Electrical starting and ignition system. J. K. Delano. (Reissue.) No. 14,842; Apr. 20; v. 273; p. 568.
Electrical switch. B. D. Horton. No. 1,335,834; Apr. 6; v. 273; p. 24.
Electrical transformer. S. Z. de Ferranti. No. 1,336,894; Apr. 13; v. 273; p. 286.
Electrically-heated draft device. W. A. Browne. No. 1,338,611; Apr. 27; v. 273; p. 753.
Electrically-operated vibratory motor. C. J. Henschel. No. 1,336,519; Apr. 13; v. 273; p. 213.
Electricity transforming and converting apparatus. H. M. Hobart. No. 1,337,071; Apr. 13; v. 273; p. 320.
Electricity transforming and converting apparatus. C. W. Stone and H. M. Hobart. No. 1,337,100; Apr. 13; v. 273; p. 325.
Electrode. J. K. Forshee. No 1,337,894; Apr 20; v. 273; p. 550.
Electrode-adapter. R. Baker. No. 1,336,603; Apr. 13; v. 273; p. 230.

Electrode-holder. J. Hughes. No. 1,335,895; Apr. 6; v. 273; p. 36.
Electrolytic process and product. M. M. Merritt. No. 1,335,846; Apr. 6; v. 273; p. 26.
Electrolyzing apparatus. C. N. Riber. No. 1,337,724; Apr. 20; v. 273; p. 518.
Electromagnet. C. E. Avery. No. 1,338,548; Apr. 27; v. 273; p. 742.
Electromagnetic switch. L. E. Hutt. No. 1,337,072; Apr. 13; v. 273; p. 320.
Electroplating, Apparatus for. G. C. Pinger. No. 1,336,052; Apr. 6; v. 273; p. 66.
Elevator: *See*—
Grain-elevator.
Portable elevator.
Elevator. D. A. Beaudry. No. 1,335,719; Apr. 6; v. 273; p. 3.
Elevator. V. H. Felt. No. 1,338,127; Apr. 27; v. 273; p. 664.
Elevator interlocking device. T. W. Jenkins. No. 1,336,748; Apr. 13; v. 273; p. 257.
Elevator safety attachment. R. L. Stubbs. No. 1,336,664; Apr. 13; v. 273; p. 241.
Elevator safety device. J. R. Stroud. No. 1,336,170; Apr. 6; v. 273; p. 88.
Elevator-shafts, Removable flooring for. W. J. Morrin. No. 1,335,849; Apr. 6; v. 273; p. 27.
Embroidery-frame. R. O. Trueb. No. 1,335,806; Apr. 6; v. 273; p. 19.
Engine: *See*—
Gas-engine.
Impact-engine.
Internal-combustion engine.
Internal-combustion rotary engine.
Oil-engine.
Rotary engine.
Engine. C. S. Leonard and R. H. and R. J. Beck. No. 1,338,311; Apr. 27; v. 273; p. 698.
Engine. T. E. Lewis. No. 1,336,846; Apr. 13; v. 273; p. 277.
Engine attachment, Automobile-. E. C. Rowland. No. 1,338,534; Apr. 27; v. 273; p. 740.
Engine construction, Steam-. C. Reeves. No. 1,337,024; Apr. 13; v. 273; p. 310.
Engine-frame. H. O. Baker. No. 1,336,715; Apr. 13; v. 273; p. 251.
Engine-frame. W. P. Cook and H. O. Baker. No. 1,336,729; Apr. 13; v. 273; p. 254.
Engine-indicator. A. O. Benecke. No. 1,336,810; Apr. 13; v. 273; p. 269.
Engine of compound type, Internal-combustion. S. G. Wigelius and N. W. Uhr. No. 1,336,668; Apr. 13; v. 273; p. 242.
Engine or pump, Rotary. K. G. Kutchka. No. 1,336,845; Apr. 13; v. 273; p. 277.
Engine-stand. R. E. Manley. No. 1,336,912; Apr. 13; v. 273; p. 289.
Engine starter, Explosive-. L. N. Ries. No. 1,338,159; Apr. 27; v. 273; p. 669.
Engine-starting apparatus. J. Bijur. No. 1,337,973; Apr. 20; v. 273; p. 565.
Engines, Aerating device for primers for internal-combustion. H. Kocourek. No. 1,336,144; Apr. 6; v. 273; p. 83.
Engines, Air-cooler for. J. F. Wittmann. No. 1,336,458; Apr. 13; v. 273; p. 201.
Engines, Attachment for internal-combustion. W. H. Sibbald. No. 1,336,592; Apr. 13; v. 273; p. 227.
Engines, Automatic reversible fan for explosive. A. Holland. (Reissue.) No. 14,838; Apr. 13; v. 273; p. 340.
Engines, Axle connection for. H. O. Baker. No. 1,336,716; Apr. 13; v. 273; p. 251.
Engines, Control device for internal-combustion. E. B. Hoyte. No. 1,338,017; Apr. 27; v. 273; p. 643.
Engines, Crank or crank-shaft of internal-combustion. A. W. Wall. No. 1,336,546; Apr. 13; v. 273; p. 219.
Engines, Device for preventing leakage around the valve-stems of internal-combustion. J. F. McGrother and J. L. Deen. No. 1,338,186; Apr. 27; v. 273; p. 674.
Engines, Fuel feeding and mixing device for. W. Shurtleff. No. 1,338,104; Apr. 27; v. 273; p. 659.
Engines, Fuel-heater for internal-combustion. P. F. O'Shaughnessy. No. 1,336,152; Apr. 6; v. 273; p. 85.
Engines, Fuel-injection device for internal-combustion. J. McKechnie. No. 1,338,316; Apr. 27; v. 273; p. 699.
Engines, Governing mechanism for compound. F. Hodgkinson. No. 1,337,176; Apr. 13; v. 273; p. 339.
Engines, High-tension distributer for internal-combustion. J. Schneider and F. Billon. No. 1,337,966; Apr. 20; v. 273; p. 564.
Engines, High-voltage current-distributing apparatus for electric ignition apparatus of internal-combustion. J. Bohli. No. 1,335,933; Apr. 6; v. 273; p. 43.
Engines, Ignition system for internal-combustion. W. F. Strand. No. 1,336,933; Apr. 13; v. 273; p. 283.
Engines, Lubricating system for high-speed. C. L. Lawrance. No. 1,338,310; Apr. 27; v. 273; p. 698.
Engines, Means for packing and lubricating the pistons of internal-combustion and other. G. Blankfield. No. 1,336,342; Apr. 6; v. 273; p. 120.
Engines, Method and apparatus for making valves for internal-combustion. C. R. Short and A. L. Cash. No. 1,335,862; Apr. 6; v. 273; p. 30.
Engines, Oil-cooling system for explosive-. C. V. Morse. No. 1,336,368; Apr. 6; v. 273; p. 125.
Engines, Oil-feed pump for internal-combustion. H. W. Sumner. No. 1,338,338; Apr. 27; v. 273; p. 703.
Engines, Spark-controlling mechanism for internal-combustion. J. F. Gorman. No. 1,336,350; Apr. 6; v. 273; p. 122.
Engines, Splash lubricating system for gas-. C. J. Gustafson. No. 1,337,013; Apr. 13; v. 273; p. 308.
Engines, Starter for internal-combustion. E. M. Bond. No. 1,337,113; Apr. 13; v. 273; p. 328.
Engines, Starting device for internal-combustion. J. K. Delano. No. 1,337,887; Apr. 20; v. 273; p. 549.
Engines, Starting and ignition system for internal-combustion. V. A. Fynn. No. 1,337,649; Apr. 20; v. 273; p. 503.
Engines, Starting mechanism for internal-combustion. N. A. Christensen. No. 1,336,616; Apr. 13; v. 273; p. 232.
Engines, Superheater for internal-combustion. H. A. Lacerda. No. 1,338,511; Apr. 27; v. 273; p. 736.
Engines, Valve mechanism for reciprocating. A. H. Anthony. No. 1,336,711; Apr. 13; v. 273; p. 250.
Engines, Water-circulating pump for combustion-. O. T. Scharmann. No. 1,336,091; Apr. 6; v. 273; p. 73.
Engines with fuel, Method of and means for supplying. D. L. Winters. No. 1,337,338; Apr. 20; v. 273; p. 445.
Envelop-clasp. G. C. Moxon. No. 1,335,851; Apr. 6; v. 273; p. 27.
Envelop construction. J. C. Blue. No. 1,335,814; Apr. 6; v. 273; p. 21.
Envelop feeding and handling device. C. L. Post. No. 1,337,266; Apr. 20; v. 273; p. 431.
Envelop machine, Window-. E. E. Brookes. No. 1,338,119; Apr. 27; v. 273; p. 662.
Envelop, Record-index. J. Zimmerman. No. 1,336,270; Apr. 6; v. 273; p. 107.
Envelop, Safety-. J. J. Mendenhall. No. 1,336,646; Apr. 13; v. 273; p. 237.
Envelops, Making open-face. G. W. Swift, Jr. No. 1,337,735; Apr. 20; v. 273; p. 520.
Envelops, Mechanism for making open-face. G. W. Swift, Jr. No. 1,337,734; Apr. 20; v. 273; p. 519.
Eraser-cleaner. J. Paterson, Jr. No. 1,338,586; Apr. 27; v. 273; p. 749.
Evener and cutter, Combined. G. W. Duvall, N. H. Beebe, and H. E. Smith. No. 1,337,056; Apr. 13; v. 273; p. 317.
Excavating-machine. R. A. Bayles. No. 1,335,932; Apr. 6; v. 273; p. 43.
Excavator-bucket cleaner. C. E. Stahl. No. 1,336,595; Apr. 13; v. 273; p. 228.
Excavators, Cutter for. V. Schmidt. No. 1,336,657; Apr. 13; v. 273; p. 239.
Exercising apparatus, Cabinet for an. J. J. Cooper. No. 1,336,774; Apr. 13; v. 273; p. 262.
Expansion-joint. R. Ullrich. No. 1,336,111; Apr. 6; v. 273; p. 77.
Expansion-joint. R. Ruppel. No. 1,336,924; Apr. 13; v. 273; p. 292.
Explosive. J. A. Hardel. No 1,337,451; Apr. 20; v. 273; p. 465.
Explosive. J. R. Mardick. No. 1,335,788; Apr. 6; v 273; p. 16.
Explosive. J. R. Mardick and F. M. Becket. No 1,335,789; Apr. 6; v. 273; p. 16.
Explosive and preparing same. J. R. Mardick. No. 1,335,790; Apr. 6; v. 273; p. 16.
Explosive, Desensitized nitroglycerin. A. A. Starring. No. 1,336,661; Apr. 13; v. 273; p. 240.
Explosive material into shells, or other receptacles, Apparatus for filling. W. Sumner. No. 1,337,490; Apr. 20; v. 273; p. 473.
Explosives, Manufacture of. G. A. Hedberg. No. 1,335,785; Apr. 6; v. 273; p. 16.
Extension-table. H. Crump. No. 1,338,558; Apr. 27; v. 273; p. 744.
Extension-table. P. Nyholm. No. 1,337,092; Apr. 13; v. 273; p. 324.
Extension-table. J. Rogginger. No. 1,335,859; Apr. 6; v. 273; p. 29.
Extractor: *See*—
Cotter-extractor.
Eye-cup and container, Combination. C. H. Trullinger. No. 1,336,109; Apr. 6; v. 273; p. 77.
Eye-shield. F. Bergmann. No. 1,337,036; Apr. 13; v. 273; p. 313.
Eye-shield. W. H. Wilmer. No. 1,336,009; Apr. 6; v. 273; p. 58.
Eye-testing devices, Cabinet for exhibiting. J. M. Scott. No. 1,337,728; Apr. 20; v. 273; p. 518.
Eyeglasses. D. Contento. No. 1,338,174; Apr. 27; v. 273; p. 672.
Eyeglasses and spectacles, Rim for. E. R. Durgin. No. 1,335,942; Apr. 6; v. 273; p. 45.
Eyelet and hook setting machines, Positioning device for. L. F. Muther. No. 1,336,854; Apr. 13; v. 273; p. 278.
Eyelet-machine. L. F. Muther. No. 1,336,855; Apr. 13; v. 273; p. 278.
Fabric: *See*—
Bed-spring fabric.
Wire fabric.
Fabric-making machine. H. E. Brown. No. 1,336,343; Apr. 6; v. 273; p. 120.
Fabric, Method of and means for binding the edges of reed. M. B. Lloyd. No. 1,336,571; Apr. 13; v. 273; p. 223.
Fabric stripping or cutting machine. A. M. Blakeslee. No. 1,338,551; Apr. 27; v. 273; p. 743.

Fabrics, Stentering or stretching device applicable to heated cylindrical can-drying machines for textile. J. R. Stevenson. No. 1,336,385; Apr. 6; v. 273; p. 129.
Fan, Motor-. C. H. J. Dilg. No. 1,337,644; Apr. 20; v. 273; p. 502.
Fan, Ventilator-. M. M. Kohn. No. 1,337,560; Apr. 20; v. 273; p. 486.
Fastener. E. J. Bryan. No. 1,336,193; Apr. 6; v. 273; p. 93.
Fastener. F. S. Carr. No. 1,337,115; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,116; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,117; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,118; Apr. 13; v. 273; p. 328.
Fastener. F. S. Carr. No. 1,337,119; Apr. 13; v. 273; p. 328.
Fastener. C. B. Merriam. No. 1,337,938; Apr. 20; v. 273; p. 558.
Fastener-setting machine. P. J. Horgan. No. 1,337,229; Apr. 20; v. 273; p. 423.
Fastening device. E. U. Kimbark. No. 1,336,629; Apr. 13; v. 273; p. 234.
Fastening device. J. O. Muller. No. 1,336,752; Apr. 13; v. 273; p. 258.
Fastening device. G. D. Preston. No. 1,336,156; Apr. 6; v. 273; p. 85.
Faucet. E. M. Dempsey. No. 1,336,026; Apr. 6; v. 273; p. 61.
Faucet. W. E. La Rue. No. 1,336,970; Apr. 13; v. 273; p. 300.
Faucet, Combination-. J. T. Johnson. No. 1,336,236; Apr. 6; v. 273; p. 101.
Faucet, Filling-. P. Wirth. No. 1,338,662; Apr. 27; v. 273; p. 763.
Faucets, Sprinkling attachment for garden-. H. D. Molse. No. 1,338,242; Apr. 27; v. 273; p. 685.
Feed-trough, Animal. J. Hector. No. 1,338,077; Apr. 27; v. 273; p. 654.
Feed-water heater and exhaust-steam conserver. W. T. Harris. No. 1,337,556; Apr. 20; v. 273; p. 485.
Feeder. C. F. Schumacher. No. 1,336,320; Apr. 6; v. 273; p. 116.
Feeder, Self-. A. C. Buth. No. 1,337,436; Apr. 20; v. 273; p. 462.
Feeding apparatus. A. L. Bausman. No. 1,337,584; Apr. 20; v. 273; p. 491.
Feeding mechanism. P. Bammer. No. 1,336,771; Apr. 13; v. 273; p. 262.
Feeding mechanism. J. F. Gail. No. 1,336,622; Apr. 13; v. 273; p. 233.
Feet, Device for the prevention and treatment of deformed. D. J. Morton. No. 1,335,981; Apr. 6; v. 273; p. 53.
Fence-machines, Measuring device for. A. C. Mills. No. 1,335,980; Apr. 6; v. 273; p. 53.
Fencepost. G. B. Clarke. No. 1,338,423; Apr. 27; v. 273; p. 719.
Fencepost. L. Cornelius. No. 1,336,680; Apr. 13; v. 273; p. 245.
Fender. E. Burch. No. 1,336,277; Apr. 6; v. 273; p. 108.
Fiber-cleaning device. R. Quijano. No. 1,336,046; Apr. 6; v. 273; p. 65.
Fiber plaster-board and making same. C. G. Muench. No. 1,337,254; Apr. 20; v. 273; p. 428.
Fibrous board and producing same, Reinforced. T. B. Munroe. No. 1,335,910; Apr. 6; v. 273; p. 39.
Filament-forming device. O. Ohlson. No. 1,337,258; Apr. 20; v. 273; p. 429.
Filament-supports for incandescent lamps, Machine for making. C. Eisler. No. 1,338,499; Apr. 27; v. 273; p. 733.
Filament-winding machine. C. Eisler. No. 1,338,498; Apr. 27; v. 273; p. 733.
File, Flexible. G. F. Vorhauer. No. 1,335,866; Apr. 6; v. 273; p. 30.
Files, binders, &c., Puncturing device for. E. K. Bottle. No. 1,336,998; Apr. 13; v. 273; p. 305.
Filling machine, Hand-pack-. C. S. Bucklin. No. 1,335,819; Apr. 6; v. 273; p. 22.
Film-holder. W. H. O'Brien and D. Siakel. No. 1,337,614; Apr. 20; v. 273; p. 496.
Film-holder. H. H. Pierce. No. 1,336,877; Apr. 6; v. 273; p. 127.
Film-magazine. J. E. Leonard. No. 1,336,640; Apr. 13; v. 273; p. 236.
Film-moving mechanism. J. E. Leonard. No. 1,336,639; Apr. 13; v. 273; p. 236.
Films, Apparatus for drying coated. C. Rosier. No. 1,336,050; Apr. 6; v. 273; p. 65.
Filter. A. C. Gorton and G. R. Carr. No. 1,337,066; Apr. 13; v. 273; p. 319.
Filter. L. Wachenberg. No. 1,337,170; Apr. 13; v. 273; p. 338.
Filter, Air-. H. P. Milker. No. 1,337,020; Apr. 13; v. 273; p. 309.
Filter-casing. E. J. Sweetland and C. M. Stanley. No. 1,337,733; Apr. 20; v. 273; p. 519.
Filter, Cistern-. R. H. Cummings. No. 1,337,595; Apr. 20; v. 273; p. 493.
Filter, Faucet-. J. M. Forest, Jr. No. 1,337,061; Apr. 13; v. 273; p. 318.
Filter, Fluid-. W. R. Kahlenberg. No. 1,335,899; Apr. 6; v. 273; p. 37.
Filter-press frame. G. F. Miller. No. 1,337,251; Apr. 20; v. 273; p. 428.
Filtering apparatus. J. M. Izquierdo. No. 1,337,517; Apr. 20; v. 273; p. 478.
Filtering compound. L. W. Shull. No. 1,336,591; Apr. 13; v. 273; p. 227.
Filtering-machine. H. W. Tuttle. No. 1,336,600; Apr. 13; v. 273; p. 229.
Filtration, Method of and apparatus for. O. J. Salisbury. No. 1,336,444; Apr. 13; v. 273; p. 199.
Finger-guard. W. R. Rasmussen. No. 1,337,957; Apr. 20; v. 273; p. 562.
Fire-alarm-signaling device. W. J. Roy and J. B. Danel. No. 1,337,161; Apr. 13; v. 273; p. 336.
Fire-basket. B. M. Ward and H. G. Smith. No. 1,336,766; Apr. 13; v. 273; p. 261.
Fire-door-operating device. F. B. Searle. No. 1,336,054; Apr. 6; v. 273; p. 66.
Fire-extinguisher. F. C. Bargar. No. 1,338,166; Apr. 27; v. 273; p. 671.
Fire-extinguisher. G. B. Haines. No. 1,337,130; Apr. 13; v. 273; p. 330.
Fire-extinguishers, Supporting-bracket for. M. G. Kopf. No. 1,337,234; Apr. 20; v. 273; p. 424.
Fire-hose, Implement for kinking. W. F. Corbin. No. 1,336,891; Apr. 13; v. 273; p. 285.
Fire, Imitation. H. H. Berry. No. 1,336,500; Apr. 13; v. 273; p. 209.
Firearm, Automatic or semi-automatic. H. W. Gabbett-Fairfax. No. 1,338,649; Apr. 27; v. 273; p. 761.
Firearm, Searchlight-. J. Matys. No. 1,338,239; Apr. 27; v. 273; p. 684.
Firearms, Leaf-sight for. F. F. Burton. No. 1,338,121; Apr. 27; v. 273; p. 662.
Firearms, Rear sight for. G. S. Lewis. No. 1,338,382; Apr. 27; v. 273; p. 712.
Firearms, Safety device for. B. F. Schmidt. No. 1,335,988; Apr. 6; v. 273; p. 54.
Fireproofing composition and making same. T. B. Munroe. No. 1,338,322; Apr. 27; v. 273; p. 700.
Fish-cleaning machines, Belly-finning head for. E. H. Waugh. No. 1,337,375; Apr. 20; v. 273; p. 452.
Fish-trap. E. M. Johnson. No. 1,336,356; Apr. 6; v. 273; p. 123.
Fisherman's submersible light. E. W. Reinewald. No. 1,338,528; Apr. 27; v. 273; p. 739.
Fishhook. J. O. Becvar. No. 1,336,987; Apr. 13; v. 273; p. 303.
Fishing-rod. M. Winskas. No. 1,337,378; Apr. 20; v. 273; p. 452.
Fishing-tackle, Light attachment for. E. J. Timmons. No. 1,337,292; Apr. 20; v. 273; p. 436.
Fishline-reel. S. T. Thorpe. No. 1,337,857; Apr. 20; v. 273; p. 543.
Flag-support. C. T. Harned. No. 1,337,222; Apr. 20; v. 273; p. 422.
Flanged articles, Making. J. J. Cain. No. 1,338,419; Apr. 27 v. 273; p. 718.
Flask: *See*—
Molder's flask.
Flexible coupling. G. F. Eckart. No. 1,337,646; Apr. 20; v. 273; p. 502.
Floral device. D. W. Ludwig. No. 1,336,249; Apr. 6; v. 273; p. 103.
Flotation process. E. B. Thornhill. No. 1,338,264; Apr. 27; v. 273; p. 689.
Flow-meters, Apparatus for calibrating U-tubes for. J. A. Shorey. No 1,337,969; Apr. 20; v. 273; p. 564.
Flue, Smoke-. J. A. Speaks. No. 1,337,731; Apr. 20; v. 273; p. 519.
Fluid-mixing apparatus. E. Ruud. Reissue. No. 14,836; Apr. 6; v. 273; p. 133.
Fluid-mixing apparatus. C. H. Sanford; No. 1,338,592; Apr. 27; v. 273; p. 750.
Fluid-pressure-operated controller. O. M. Jones. No. 1,335,898; Apr. 6; v. 273; p. 37.
Fluid-pressure systems, Antifreeze device for. A. B. Wood. No. 1,336,984; Apr. 13; v. 273; p. 303.
Fluid-pressure systems, Method and apparatus for preventing and removing obstructions in. W. W. Hunzicker. No. 1,336,905; Apr. 13; v. 273; p. 288.
Fly and hook, Artificial floating. H. W. Hayes. No. 1,336,227; Apr. 6; v. 273; p. 99.
Flying machine. O. S. Lind. No. 1,338,025; Apr. 27; vol. 273; p. 644.
Flying-machine. C. F. Wilcox. No. 1,336,669; Apr. 13; v. 273; p. 242.
Flying machines, Power-conserving air-channel propeller for. J. J. A. Miller. No. 1,338,516; Apr. 27; v. 273; p. 737.
Flying-machines, Propeller-gearing for. A. E. Zumwalt. No. 1,338,116; Apr. 27; v. 273; p. 662.
Flytrap. C. H. Johnson. No. 1,338,084; Apr. 27; v. 273; p. 655.
Flytrap. F. O. Tibbetts. No. 1,338,113; Apr. 27; v. 273; p. 661.
Folding and tape-applying machine. W. P. Clifford. No. 1,338,000; Apr. 27; v. 273; p. 639.
Folding box. E. E. Pinkerton. No. 1,337,368; Apr. 20; v. 273; p. 450.
Food-cutter. E. E. Punzelt. No. 1,337,955; Apr. 20; v. 273; p. 562.

Food curing and smoking apparatus. R. R. Casey. No. 1,337,974; Apr. 20; v. 273; p. 566.
Food products, Apparatus for packing. N. R. Vail and W. B. Coberly. No. 1,337,374; Apr. 20; v. 273; p. 451.
Footrest, Adjustable. W. E. Kingsford. No. 1,337,919; Apr. 20; v. 273; p. 555.
Footwear. L. Trolle. No. 1,337,983; Apr. 20; v. 273; p. 567.
Forging-machine. L. J. Berkeley. No. 1,337,430; Apr. 20; v. 273; p. 461.
Fork, rake, and knife, Combined. J. Miller. No. 1,337,939; Apr. 20; v. 273; p. 559.
Forming or finishing top lifts, Method of and apparatus for. F. R. Akerley. No. 1,337,990; Apr. 27; v. 273; p. 637.
Foundry-mixer. H. S. Simpson. No. 1,337,333; Apr. 20; v. 273; p. 444.
Fountain: *See*—
Drinking-fountain.
Frame: *See*—
Curtain-frame.
Curtain and shade frame.
Embroidery-frame.
Engine-frame.
Filter-press frame.
Gun-carriage frame.
Lens-frame.
Picture-frame.
Frame-actuating device. J. Urbanels. No. 1,338,267; Apr. 27; v. 273; p. 690.
Fruit-grader. E. S. Lautner. No. 1,337,924; Apr. 20; v. 273; p. 556.
Fruit-grader. W. I. Winchester. No. 1,336,059; Apr. 6; v. 273; p. 67.
Fruit grader and sizer. J. F. Barghausen. No. 1,338,276; Apr. 27; v. 273; p. 691.
Fruit-jar. W. C. and C. R. Martineau. No. 1,336,367; Apr. 6; v. 273; p. 125.
Fruit-juice, Mechanism for. H. Baulig. No. 1,336,719; Apr. 13; v. 273; p. 252.
Fruit-juice, Treating. H. Baulig. No. 1,336,720; Apr. 13; v. 273; p. 252.
Fruit-picker. S. B. Morison. No. 1,336,648; Apr. 13; v. 273; p. 238.
Fruits without stripping off the strings, Method of and machines for preparing leguminous. J. A. Olsen. No. 1,338,035; Apr. 27; v. 273; p. 646.
Fuel, Apparatus for treating. W. L. McLaughlin. No. 1,336,364; Apr. 6; v. 273; p. 125.
Fuel-feed device, Vacuum. J. E. Genn. No. 1,338,008; Apr. 27; v. 273; p. 641.
Fuel-feed device, Vacuum. W. H. Muzzy. No. 1,335,792; Apr. 6; v. 273; p. 17.
Fuel, Fluid-pressure apparatus for burning powdered. P. A. Leonard, M. F. Maloney, and E. Fandrich. No. 1,338,454; Apr. 27; v. 273; p. 724.
Fulcrum, Brake-beam. A. H. Peycke. No. 1,335,914; Apr. 6; v. 273; p. 40.
Fulcrum, Forming a forged. L. L. Whitney. No. 1,335,808, Apr. 6; v. 273; p. 20.
Fumes passing through electrical precipitators, Regulating the velocity of. W. W. Strong. No. 1,337,488; Apr. 20; v. 273; p. 472.
Fumes passing through electrical precipitators, Regulating the velocity of. W. W. Strong. No. 1,337,489; Apr. 20; v. 273; p. 472.
Furnace: *See*—
Annealing-furnace.
Blast-furnace.
Boiler-furnace.
Electric furnace.
Heat-treating furnace.
Heating-furnace.
Leaf and waste furnace.
Liquid-heating furnace.
Melting-furnace.
Metal-heating furnace.
Metallurgical furnace.
Non-crucible furnace.
Open-hearth furnace.
Singeing-furnace.
Furnace. W. M. Butler. No. 1,336,675; Apr. 13; v. 273; p. 243.
Furnace. J. H. Hume. No. 1,338,136; Apr. 27; v. 273; p. 665.
Furnace. A. C. Rhodes. No. 1,336,980; Apr. 13; v. 273; p. 302.
Furnace-charging apparatus. F. E. Troutman. No. 1,336,494; Apr. 13; v. 273; p. 208.
Furnace-doors, Device for operating. C. E. Meyers. No. 1,336,476; Apr. 13; v. 273; p. 205.
Furnace-gas producer. L. M. Underwood. No. 1,337,298; Apr. 20; v. 273; p. 437.
Furnaces, Apparatus for delivering mold charges from glass-. S. Davidson and A. L. Schram. No. 1,338,214; Apr. 27; v. 273; p. 680.
Furnaces, Construction of catalyst. H. C. Greenwood and W. R. Tate. No. 1,335,891; Apr. 6; v. 273; p. 35.
Furnaces, Control system for electric. F. Thornton, Jr. No. 1,338,408; Apr. 27; v. 273; p. 716.
Furnaces, Deflecting-wall for. G. Baehr and E. L. Messler. No. 1,336,499; Apr. 13; v. 273; p. 209.
Furniture constructed from lock-seam tubing, Metal. P. H. Friel. No. 1,337,128; Apr. 13; v. 273; p. 330.
Furniture, Printer's. D. A. Hampson. No. 1,336,223; Apr. 6; v. 273; p. 98.
Fuse, Detonator-. J. B. Semple. No. 1,336,391; Apr. 6; v. 273; p. 130.
Fuse device. A. Herz. (Reissue.) No. 14,844; Apr. 20; v. 273; p. 568.
Fuse, Electric. F. J. Petrovics. No. 1,335,949; Apr. 20; v. 273; p. 561.
Fuse, Inclosed non-arcing refillable. A. A. Wells. No. 1,337,806; Apr. 20; v. 273; p. 533.
Fuse-indicator. W. H. Holdorf. No. 1,337,357; Apr. 20; v. 273; p. 448.
Fuse-plug. E. G. K. Anderson. No. 1,335,810; Apr. 6; v. 273; p. 20.
Fuse-plug. A. S. Deem. No. 1,338,426; Apr. 27; v. 273; p. 719.
Fuse plug, Multiple-. E. M. King. No. 1,336,238; Apr. 6; v. 273; p. 101.
Fuse, Safety, centrifugal percussion base. H. Meredith-Jones. No. 1,336,701; Apr. 13; v. 273; p. 249.
Fuselage. A. Elmendorf. No. 1,338,564; Apr. 27; v. 273; p. 745.
Gage: *See*—
Butt-gage.
Glove-pointing gage.
Head-gage.
Impulse-pressure gage.
Pressure-gage.
Screw-thread gage.
Thread-gage.
Water-gage.
Gage. D. E. Fredericksen. No. 1,336,426; Apr. 13; v. 273; p. 196.
Galvanic battery. R. J. Smith. No. 1,338,465; Apr. 27; v. 273; p. 727.
Game. H. G. Cress. No. 1,338,493; Apr. 27; v. 273; p. 732.
Game. C. Gay. No. 1,338,502; Apr. 27; v. 273; p. 734.
Game. M. J. Za Haris. No. 1,338,475; Apr. 27; v. 273; p. 729.
Game apparatus H. S. Coover. No. 1,337,691; Apr. 20; v. 273; p. 511.
Game-board. C. B. Rosenberger. No. 1,337,274; Apr. 20; v. 273; p. 432.
Game-board. T. V. Stewart. No. 1,336,169; Apr. 6; v. 273; p. 88.
Game, Parlor baseball. R. H. Ireland. No. 1,337,773; Apr. 20; v. 273; p. 527.
Garage-protector, Electric. G. J. Gumm. No. 1,336,625; Apr. 13; v. 273; p. 234.
Garbage-incinerator. A. J. Roberts. No. 1,337,668; Apr. 20; v. 273; p. 506.
Garment. M. M. Lauzon. No. 1,336,305; Apr. 6; v. 273; p. 113.
Garment. W. J. Mainthow. No. 1,338,187; Apr. 27; v. 273; p. 674.
Garment and making same, Burial-. H. T. Loomis. No. 1,336,248; Apr. 6; v. 273; p. 103.
Garment-drying apparatus. W. Messinger. No. 1,338,031; Apr. 27; v. 273; p. 645.
Garment-fastener. J. Forman. No. 1,336,692; Apr. 13; v. 273; p. 247.
Garment-hanger. H. M. Gould. No. 1,336,429; Apr. 13; v. 273; p. 197.
Garment-hanger. J. L. Lyman. No. 1,335,902; Apr. 6; v. 273; p. 37.
Garment-hanger. A. A. McCaffrey. No. 1,336,849; Apr. 13; v. 273; p. 277.
Garment-hanger. F. L. Owen. No. 1,336,371; Apr. 6; v. 273; p. 127.
Garment, Man's. T. Gongora. No. 1,337,698; Apr. 20; v. 273; p. 512.
Garment-supporter. J. F. Godward. No. 1,337,901; Apr. 20; v. 273; p. 551.
Garment-supporter. G. Hake. No. 1,337,131; Apr. 13; v. 273; p. 331.
Garment-supporter. F. W. Miller. No. 1,336,312; Apr. 6; v. 273; p. 115.
Garment-trimming machine. S. Elman. No. 1,338,291; Apr. 27; v. 273; p. 694.
Gas-burner. B. L. Shannon. No. 1,337,801; Apr. 20; v. 273; p. 532.
Gas-burner and body-covering therefor. J. H. Ackroyd. No. 1,335,869; Apr. 6; v. 273; p. 31.
Gas-burners and electric lights, Shade-support for. F. J. Gould and E. S. Stamp. No. 1,336,835; Apr. 13; v. 273; p. 274.
Gas-engine. L. W. Porter. No. 1,338,039; Apr. 27; v. 273; p. 647.
Gas-fixture and fuel-hose therefor. C. Stichler. No. 1,337,288; Apr. 20; v. 273; p. 435.
Gas for heating purposes, Process and apparatus for burning. M. W. Pitner. No. 1,338,327; Apr. 27; v. 273; p. 701.
Gas-holder. F. C. Frary. No. 1,337,975; Apr. 20; v. 273; p. 566.
Gas-mantle. L. Glaser. No. 1,335,831; Apr. 6; v. 273; p. 24.
Gas, Producing. O. U. Bean. No. 1,337,537; Apr. 20; v. 273; p. 482.
Gases from vessels, Arrangement for evacuating. H. Gerdien. No. 1,335,829; Apr. 6; v. 273; p. 24.
Gases, Method of and apparatus for cleaning. F. R. McGee. No. 1,338,143; Apr. 27; v. 273; p. 666.
Gaseous-fuel burner. E. T. Curran. No. 1,337,824; Apr. 20; v. 273; p. 536.
Gasket. P. J. Fitzgerald. No. 1,338,617; Apr. 27; v. 273; p. 755.
Gate-operating mechanism. F. B. Gilbert. No. 1,337,897; Apr. 20; v. 273; p. 550.
Gathering apparatus. E. F. Harrison. No. 1,337,452; Apr. 20; v. 273; p. 465.
Gear-cases, Means for dust-proofing rotating. M. B. Morgan, W. D. Collins, and G. T. Kinney. No. 1,338,032; Apr. 27; v. 273; p. 646.
Gear, Draft-. J. F. Courson. No. 1,337,002; Apr. 13; v. 273; p. 306.
Gear, Draft-. J. F. Courson. No. 1,337,003; Apr. 13; v. 273; p. 306.
Gear-shifter, Electric. A. J. Taylor, Jr. No. 1,336,796; Apr. 13; v. 273; p. 267.

Gears, Making. M. Tibbetts. No. 1,336,493; Apr. 13; v. 273; p. 208.
Gears, rolls, &c., from spinnable textile fibers, Machine for making blanks for. E. J. Guay. No. 1,337,067; Apr. 13; v. 273; p. 319.
Gearing, Automobile transmission-. O. K. Bakken. No. 1,335,811; Apr. 6; v. 273; p. 20.
Gearing, Magnetic. H. M. Stroller. No. 1,337,732; Apr. 20; v. 273; p. 519.
Gearing, Tractor driving-. H. P. Polaski. No. 1,337,369; Apr. 20; v. 273; p. 450.
Gearing, Transmission-. W. Christie. No. 1,336,132; Apr. 6; v. 273; p. 81.
Gearing, Transmission-. J. Guyer and G. Morales. No. 1,337,906; Apr. 20; v. 273; p. 552.
Gearless differential. A. F. Ford. No. 1,336,950; Apr. 13; v. 273; p. 297.
Gearless differential. C. Lavier. No. 1,337,460; Apr. 20; v. 273; p. 467.
Generator: *See*—
Acetylene-gas generator.
Electric generator.
Power-generator.
Geometrical instrument, Combination. M. W. Crane. No. 1,337,823; Apr. 20; v. 273; p. 536.
Glare-stop. F. W. Lamoreaux. No. 1,338,022; Apr. 27; v. 273; p. 644.
Glass-blowing machines, Automatic take-off device for. H. C. Fentress. No. 1,336,028; Apr. 6; v. 273; p. 62.
Glass-drawing apparatus, Cutting-off device for. W. E. Standley. No. 1,338,109; Apr. 27; v. 273; p. 660
Glass, Method of and apparatus for drawing. A. E. Spinasse. No. 1,336,056; Apr. 6; v. 273; p. 66.
Glass, Process and apparatus for the production of sheet-. G. B. Stanton. No. 1,338,261; Apr. 27; v. 273; p. 689.
Glass shaping and blowing machine. E. Roirant. No. 1,337,723; Apr. 20; v. 273; p. 517.
Glass shaping or blowing machine. A. Wilzin. No. 1,338,604; Apr. 27; v. 273; p. 752.
Glass-washer. W. M. Young. No. 1,337,303; Apr. 20; v. 273; p. 438.
Glassware, Burner for fire-polishing. J. M. Said. No. 1,337,328; Apr. 20; v. 273; p. 443.
Globe. A. Schrenkeisen. No. 1,335,923; Apr. 6; v. 273; p. 41.
Glove-pointing gage. G. S. Webb, Jr. No. 1,337,972; Apr. 20; v. 273; p. 565.
Glue, Autoclave-tray for cooking. L. Mauerhofer. No. 1,337,146; Apr. 13; v. 273; p. 333.
Goggles. F. A. Ihreke. No. 1,338,505; Apr. 27; v. 273; p. 735.
Goggles. G. S. Johnston, F. A. Ihreke, and C. A. Partenheimer; No. 1,338,508; Apr. 27; v. 273; p. 735.
Goggles. F. E. Weeks. No. 1,337,420; Apr. 20; v. 273; p. 459.
Golf-club. A. Backus. No. 1,336,671; Apr. 13; v. 273; p. 243.
Golf club. W. F. Reach. No. 1,337,958; Apr. 20; v. 273; p. 562.
Governor drive mechanism. T. Douglas. No. 1,338,362; Apr. 27; v. 273; p. 708.
Governor for motor-vehicles. D. W. Sellek. No. 1,338,196; Apr. 27; v. 273; p. 676.
Grade-indicator. J. Gage. No. 1,336,694; Apr. 13; v. 273; p. 247.
Grain-elevator. J. B. Majerus. No. 1,338,514; Apr. 27; v. 273; p. 736.
Grain-separator. T. O. Helgerson. No. 1,336,958; Apr. 13; v. 273; p. 298.
Grain-storehouse construction. L. H. Dickelman. No. 1,336,945; Apr. 13; v. 273; p. 296.
Grate-bar. L. L. Close. No. 1,338,070; Apr. 27; v. 273; p. 653.
Grate, Fire-. J. J. Fowden. No. 1,337,214; Apr. 20; v. 273; p. 421.
Grease-cup. L. N. Bourdeau. No. 1,337,432; Apr. 20; v. 273; p. 462.
Grease-cup. C. C. Hamilton and J. Hutchinson. No. 1,336,135; Apr. 6; v. 273; p. 82.
Grease-cup. A. W. and J. N. Martin. No. 1,337,717; Apr. 20; v. 273; p. 516.
Grease-dispensing device. J. H. Montgomery. No. 1,338,519; Apr. 27; v. 273; p. 737.
Grid, Adjustable broiling-. G. B. Child. No. 1,337,043; Apr. 13; v. 273; p. 314.
Griddle-greaser. A. St. Onge. No. 1,335,998; Apr. 6; v. 273; p. 56.
Grinder. C. M. Cook. No. 1,336,200; Apr. 6; v. 273; p. 94.
Grinder, Hacksaw-. E. E. Henry. No. 1,336,959; Apr. 13; v. 273; p. 298.
Grinding and smoothing mechanism, Apparatus for applying abrasives to. H. K. Hitchcock. No. 1,336,521; Apr. 13; v. 273; p. 213.
Grinding cutters, reamers, and like tools, Machine for. R. M. Nicolayson. No. 1,336,533; Apr. 13; v. 273; p. 216.
Grinding-machine. E. B. Gardner. No. 1,337,353; Apr. 20; v. 273; p. 447.
Grinding-machine. G. C. Kimmel. No. 1,337,139; Apr. 13; v. 273; p. 332.
Grinding-machine. G. C. Kimmel. No. 1,337,140; Apr. 13; v. 273; p. 332.
Grinding-machine. R. C. Mitchell. No. 1,335,905; Apr. 6; v. 273; p. 38.
Grinding-machine. H. J. Perkins. No. 1,337,617; Apr. 20; v. 273; p. 497.
Grinding machine, Cutter-. F. Müller. No. 1,338,319; Apr. 27; v. 273; p. 700.
Grinding machine, Cutter-. F. Müller. No. 1,338,320; Apr. 27; v. 273; p. 700.
Grinding-machine, Universal. S. G. Buskard. No. 1,338,355; Apr. 27; v. 273; p. 707.
Grinding-machines, Work-table for. E. B. Gardner. No. 1,337,352; Apr. 20; v. 273; p. 447.
Guide-clamp, Adjustable. H. M. Lamb. No. 1,337,921; Apr. 20; v. 273; p. 555.
Guitars, Nut for. M. Neft. No. 1,338,583; Apr. 27; v. 273; p. 749.
Gun. H. A. Douglas. No. 1,337,444; Apr. 20; v. 273; p. 464.
Gun attachment, Grease-. A. J. Wood. No. 1,337,629; Apr. 20; v. 273; p. 499.
Gun breech-blocks comprising removable firing-tube holder, Safety mechanism for use with. E. Schneider. No. 1,336,093; Apr. 6; v. 273; p. 74.
Gun breech-blocks comprising removable firing-tube holders, Safety mechanism for use with. E. Schneider. No. 1,336,096; Apr. 6; v. 273; p. 74.
Gun-carriage frame. E. Schneider. No. 1,336,926; Apr. 13; v. 273; p. 292.
Gun-carriage, Single-trail. E. Schneider. No. 1,336,095; Apr. 6; v. 273; p. 74.
Gun-cleaner. F. P. Sullivan. No. 1,337,104; Apr. 13; v. 273; p. 326.
Gun, Flash-. R. C. Pierce. No. 1,337,566; Apr. 20; v. 273; p. 487.
Gun, Machine-. J. S. Johnston. No. 1,335,839; Apr. 6; v. 273; p. 25.
Gun-mount. M. L. Johnston. No. 1,337,359; Apr. 20; v. 273; p. 448.
Gun-mount. H. M. Rockwell. No. 1,337,327; Apr. 20; v. 273; p. 443.
Gun, Rapid-fire. W. F. Watkins. No. 1,337,971; Apr. 20; v. 273; p. 565.
Gun rig, Rivet-. W. B. Ashe and F. C. Bevins. No. 1,336,121; Apr. 6; v. 273; p. 79.
Gun-sight. C. Skopal. No. 1,336,165; Apr. 6; v. 273; p. 87.
Guns, Aiming apparatus for. E. Schneider. No. 1,336,094; Apr. 6; v. 273; p. 74.
Guns, Grinding apparatus specially applicable for grinding the interior of the A-tubes of. J. W. Barnes. No. 1,336,014; Apr. 6; v. 273; p. 59.
Gyratory crusher. R. Bernhard. No. 1,336,015; Apr. 6; v. 273; p. 59.
Hacksaw, Portable rail-. W. C. Reinhardt and O. H. Banker. No. 1,336,443; Apr. 13; v. 273; p. 199.
Hair-clipping device. G. Stocking. No. 1,336,662; Apr. 13; v. 273; p. 240.
Hair-curling device. R. K. Maker. No. 1,338,388; Apr. 27; v. 273; p. 713.
Hair-cutter. L. J. Bergendahl. No. 1,337,429; Apr. 20; v. 273; p. 461.
Hair-cutter. A. Pfeifer. No. 1,337,263; Apr. 20; v. 273; p. 430.
Hair-trimmer. W. A. James. No. 1,338,507; Apr. 27; v. 273; p. 735.
Hairpin. G. H. Bruder. No. 1,337,039; Apr. 13; v. 273; p. 314.
Hairpin. R. M. Wilson. No. 1,337,377; Apr. 20; v. 273; p. 452.
Hammer, Drop-. P. E. Lane. No. 1,337,520; Apr. 20; v. 273; p. 479.
Hammer, Drop-. A. Zawada. No. 1,337,379; Apr. 20; v. 273; p. 452.
Hand clamp and drill outfit. G. Dingman. No. 1,337,205; Apr. 20; v. 273; p. 419.
Handle: *See*—
Casket-handle.
Door-handle.
Knife-handle.
Milk-bottle handle.
Handle-securing means. G. G. Mallett. No. 1,336,707; Apr. 13; v. 273; p. 250.
Hands, Operating mechanism for artificial. A. Pringle and T. S. Kirk. No. 1,338,155; Apr. 27; v. 273; p. 668.
Hanger: *See*—
Bed-bottom hanger.
Curtain-hanger.
Curtain and portière hanger.
Curve pull-off hanger.
Garment-hanger.
Shade and curtain hanger.
Storm and screen window hanger.
Wash-hanger.
Hardening-machine. C. G. Olson. No. 1,335,912; Apr. 6; v. 273; p. 39.
Harrow. W. O. Long. No. 1,336,642; Apr. 13; v. 273; p. 237.
Harrow, Disk. W. C. Dwyer. No. 1,336,687 Apr. 13; v. 273; p. 246.
Harrow, Tandem disk. S. W. Cady. No. 1,336,676; Apr. 13; v. 273; p. 244.
Harrow, Tandem disk. F. H. French. No. 1,337,448; Apr. 20; v. 273; p. 465.
Harvester, Beet-. M. S. Montague. No. 1,337,481; Apr. 20; v. 273; p. 471.
Harvester, Beet-. C. Nelson and L. A. Coffeen. No. 1,336,313; Apr. 6; v. 273; p. 115.
Harvester-reel arm. G. H. Prigan. No. 1,336,536; Apr. 13; v. 273; p. 217.
Harvesters, Vertical cutter-bar attachment for. O. P. Williams. No. 1,336,267; Apr. 6; v. 273; p. 106.

Harvesting machine, Corn-. A. Olson and S. Hanson. No. 1,336,578; Apr. 13; v. 273; p. 225.
Harvesting-machines, Pitman-protector for. M. A. Johnson. No. 1,335,897; Apr. 6; v. 273; p. 36.
Hat. R. Bradley. No. 1,338,283; Apr. 27; v. 273; p. 693.
Hat and garment holder. R. L. Ash. No. 1,336,408; Apr. 13; v. 273; p. 193.
Hat-protector, Waterproof. R. E. Chew. No. 1,337,506; Apr. 20; v. 273; p. 476.
Hatbox. A. M. Matz. No. 1,337,087; Apr. 13; v. 273; p. 323.
Hay-loader. N. M. Bowers. No. 1,336,065; Apr. 6; v. 273; p. 68.
Hay-loader. C. R. Davis. No 1,338,215; Apr. 27; v. 273; p. 680.
Hay-press indicator. E. Gerardy. No. 1,337,553; Apr. 20; v. 273; p. 484.
Head gage, Loss-of-. C. A. Humphreys. No. 1,338,504; Apr. 27; v. 273; p. 734.
Headlight. F. P. Ahman. No. 1,336,407; Apr. 13; v. 273; p. 193.
Headlight. H. H. Travis. No. 1,338,599; Apr. 27; v. 273; p. 751.
Headlight. O. Winston. No. 1,336,602; Apr. 13; v. 273; p. 229.
Headlight, Automobile. J. H. Laird. No. 1,336,967; Apr. 13; v. 273; p. 300.
Headlight-controlling mechanism. N. D. Rice. No. 1,337,849; Apr. 20; v. 273; p. 541.
Heat-transfer apparatus. H. Zimmermann. No. 1,338,479; Apr. 27; v. 273; p. 729.
Heat-treating furnace. R. E. Brock and S. Boyce. No. 1,336,814; Apr. 13; v. 273; p. 270.
Heat-treating furnace. C. J. Kirk. No. 1,337,454; Apr. 20; v. 273; p. 466.
Heater: *See*—
Electric heater. Solar heater.
Intake-manifold heater. Tank-heater.
Internal tube-heater. Water-heater.
Oil-heater.
Heater. B. B. Kahn. No. 1,337,708; Apr. 20; v. 273; p. 514.
Heater. D. J. Nysewander. No. 1,336,753; Apr. 13; v. 273; p. 258.
Heating apparatus. L. G. Copeman. No. 1,336,552; Apr. 13; v. 273; p. 220.
Heating device. W. A. Brewster. No. 1,337,038; Apr. 13; v. 273; p. 314.
Heating element, Electrical. P. F. Apfel. No. 1,337,633; Apr. 20; v. 273; p. 500.
Heating-furnace. N. F. Egler. No. 1,338,003; Apr. 27; v. 273; p. 640.
Heating plant. R. L. Doran. No. 1,338,361; Apr. 27; v. 273; p. 708.
Heating resistance element, Electric-. L. V. Leonard. No. 1,337,779; Apr. 20; v. 273; p. 528.
Heating system, Electric. J. S. McWhirter. No. 1,338,088; Apr. 27; v. 273; p. 656.
Heating unit, Electric. E. A. Rutenberg. No. 1,337,725; Apr. 20; v. 273; p. 518.
Heel. J. Burger. No. 1,336,194; Apr. 6; v. 273; p. 93.
Heel. J. Burger. No. 1,337,639; Apr. 20; v. 273; p. 501.
Heel construction, Shoe-. W. J. Morgan. No. 1,338,580; Apr. 27; v. 273; p. 748.
Heel-molds, Machine for placing washers in. B. W. Martin and H. Sams. No. 1,336,319; Apr. 6; v. 273; p. 116.
Heel-plate for shoes, Resilient. H. G. Robinson. No. 1,337,962; Apr. 20; v. 273; p. 563.
Heel-pricking machine. A. A. Haahr. No. 1,338,013; Apr. 27; v. 273; p. 642.
Heels, Clamp for use in trimming boot and shoe. L. A. Trull. No. 1,336,002; Apr. 6; v. 273; p. 57.
Hides, Machine for stretching. F. W. Tucker. No. 1,338,050; Apr. 27; v. 273; p. 649.
High-voltage transformer. S. E. Johannesen. No. 1,337,915; Apr. 20; v. 273; p. 554.
Hinge. T. W. Hickey. No. 1,337,780; Apr. 13; v. 273; p. 264.
Hinge. J. Soss. No. 1,338,260; Apr. 27; v. 273; p. 688.
Hinge, Artificial-leg. R. R. Bodé. No. 1,337,817; Apr. 20; v. 273; p. 535.
Hinge, Concealed or invisible butt-. J. H. Way. No. 1,336,174; Apr. 6; v. 273; p. 89.
Hinge for closet-tops. E. J. De Guenther. No. 1,337,643; Apr. 20; v. 273; p. 502.
Hinge, Lubricated. F. Hernandez y Perez. No. 1,338,251; Apr. 27; v. 273; p. 687.
Hinge, Sash-. C. Stover. No. 1,335,999; Apr. 6; v. 273; p. 56.
Hinged covers or members, Support for. F. E. Levanseler. No. 1,336,085; Apr. 6; v. 273; p. 72.
Hitch, Tractor-. V. Matthews. No. 1,336,474; Apr. 13; v. 273; p. 205.
Hobby-horse or similar article. S. Herzog. No. 1,338,448; Apr. 27; v. 273; p. 723.
Hoeing-machine, Automatic. C. L. Kennedy. No. 1,336,299; Apr. 6; v. 273; p. 112.
Hog-heater-shaft attachment. F. G. Carpenter. No. 1,336,887; Apr. 13; v. 273; p. 284.
Hog-cholera serum, Producing refined. J. Reichel. No. 1,335,986; Apr. 6; v. 273; p. 53.
Hogpen. E. A. Peters and J. T. Welhoefer. No. 1,337,262; Apr. 20; v. 273; p. 430.
Hoist-equalizer. A. S. Anderson. No. 1,337,111; Apr. 13; v. 273; p. 327.
Hoisting and displaying device. P. Light. No. 1,337,237; Apr. 20; v. 273; p. 425.
Hoisting and loading mechanism. M. J. Reynolds. No. 1,337,667; Apr. 20; v. 273; p. 506.
Hoisting mechanism. J. Dolan. No. 1,335,782; Apr. 6; v. 273; p. 15.
Holder and strainer, Combination. C. Stern. No. 1,336,491; Apr. 13; v. 273; p. 208.
Hoof-trimming machine. S. J. Stokes. No. 1,337,571; Apr. 20; v. 273; p. 488.
Hook: *See*—
Fishhook. Registering-hook.
Hook, Butt-. W. G. Vasey. No. 1,336,666; Apr. 13; v. 273; p. 241.
Horn. W. Sparks. No. 1,336,594; Apr. 13; v. 273; p. 228.
Horn, Diaphragm-. H. S. A. Rydberg. No. 1,337,162; Apr. 13; v. 273; p. 336.
Horse-detacher and vehicle-lock. O. L. Jyrkas. No. 1,338,138; Apr. 27; v. 273; p. 665.
Horseshoe. G. J. Capewell. No. 1,337,194; Apr. 20; v. 273; p. 417.
Horseshoe, Cushion-. H. Paar. No. 1,338,584; Apr. 27; v. 273; p. 749.
Hose and pipe coupling. C. W. Barnes. No. 1,336,123; Apr. 6; v. 273; p. 80.
Hose holder, Garden-. W. W. Burnwatt and G. W. Hauschild. No. 1,337,541; Apr. 20; v. 273; p. 483.
Hose-supporter. H. Sacks. No. 1,336,053; Apr. 6; v. 273; p. 66.
Hot-air heating system. D. Handelan. No. 1,336,901; Apr. 13; v. 273; p. 287.
Humidifier. H. F. Reid. No. 1,336,860; Apr. 13; v. 273; p. 279.
Hydrate of alumina and similar gelatinous precipitates from their salts, Depositing. M. Buchner. No. 1,337,191; Apr. 20; v. 273; p. 417.
Hydroaero-machine. C. A. Marsh. No. 1,336,473; Apr. 13; v. 273; p. 204.
Hydrocarbon-burner. J. C. Critchett. No. 1,336,285; Apr. 6; v. 273; p. 110.
Hydrocarbon-burner. W. W. Todenwarth. No. 1,336,798; Apr. 13; v. 273; p. 267.
Hydrocarbon-burners to supply-pipes, Means for connecting. L. S. Chadwick. No. 1,336,423; Apr. 13; v. 273; p. 196.
Hydrocarbon-fuel intakes, Heater for. C. A. Lewis. No. 1,335,843; Apr. 6; v. 273; p. 26.
Hydrocarbon-light. A. G. Kaufman. No. 1,338,636; Apr. 27; v. 273; p. 758.
Hydrocarbon-motor. C. R. Short. No. 1,335,990; Apr. 6; v. 273; p. 54.
Hydrocarbon oils and water, Apparatus for decomposing. H. C. Wade. No. 1,336,450; Apr. 13; v. 273; p. 200.
Hydrocarbon-vapor producer, Liquid. J. J. Welthaus. No. 1,337,108; Apr. 13; v. 273; p. 327.
Hydrocarbons, Apparatus for cracking. F. E. Wellman. No. 1,335,771; Apr. 6; v. 273; p. 13.
Hydrocarbons, Converting liquid. W. M. McComb. No. 1,337,144; Apr. 13; v. 273; p. 333.
Hydrocarbons from higher-boiling hydrocarbons, Production of lower-boiling. A. E. Houlehan. No. 1,337,317; Apr. 20; v. 273; p. 441.
Hydrocarbons, Process of and apparatus for refining liquid. F. E. Wellman. No. 1,335,768; Apr. 6; v. 273; p. 12.
Hygroscope, Portable. C. Sampietro. No. 1,336,380; Apr. 6; v. 273; p. 128.
Hypodermic injections, Device for making. R. G. J. McEntire. No. 1,338,386; Apr. 27; v. 273; p. 712.
Ice-cream cans, Method and apparatus for retinning. W. V. Callender. No. 1,336,886; Apr. 13; v. 273; p. 284.
Ice-cream-cone holder. O. J. Roth. No. 1,338,192; Apr. 27; v. 273; p. 675.
Ice-cream freezer. M. A. Abel. No. 1,337,988; Apr. 27; v. 233; p. 637.
Ice-cutting machine. R. H. Hurford. No. 1,336,563; Apr. 13; v. 273; p. 222.
Ice, Device for use in buying. J. T. Gilbert. No. 1,337,836; Apr. 20; v. 273; p. 538.
Ice-making and refrigerating purposes, Apparatus for. C. Delaygue. No. 1,337,888; Apr. 20; v. 273; p. 549.
Identification device. G. Kalkbrenner. No. 1,338,181; Apr. 27; v. 273; p. 673.
Igniting devices, Distributor for high-tension. M. Schäfer. No. 1,337,329; Apr. 20; v. 273; p. 443.
Igniting substance. R. A. Martinez. No. 1,338,389; Apr. 27; v. 273; p. 713.
Ignition and lighting device. A. H. Nenland. No. 1,338,324; Apr. 27; v. 273; p. 701.
Ignition-controller. G. E. Stone. No. 1,338,336; Apr. 27; v. 273; p. 703.
Ignition-detector and spark-intensifier. A. Q. Nash. No. 1,338,521; Apr. 27; v. 273; p. 737.
Ignition device. J. S. Coyle. No. 1,337,046; Apr. 13; v. 273; p. 315.
Ignition device. A. H. Hoadley. No. 1,338,625; Apr. 27; v. 273; p. 756.
Ignition system. F. Conrad and J. S. Kinney. No. 1,338,360; Apr. 27; v. 273; p. 708.
Ignition systems, Automatic circuit-opening switch for. G. A. Renm. No. 1,336,158; Apr. 6; v. 273; p. 86.

Illuminating apparatus. E. A. Hawthorne. No. 1,336,837; Apr. 13; v. 273; p. 275.
Impact-engine. W. A. Smith. No. 1,338,259; Apr. 27; v. 273; p. 688.
Impulse-pressure gage. L. B. Stone. No. 1,336,104; Apr. 6; v. 273; p. 76.
Impulse starting mechanism. F. D. Norman. No. 1,337,322; Apr. 20; v. 273; p. 441.
Impulse starting mechanism. W. E. Schwarzmann. No. 1,337,331; Apr. 20; v. 273; p. 443.
Incubator. C. H. Abbott. No. 1,337,183; Apr. 20; v. 273; p. 415.
Incubator. R. A. St. Clair. No. 1,338,404; Apr. 27; v. 273; p. 715.
Index and display device, Card. E. F. Wilson. No. 1,336,115; Apr. 6; v. 273; p. 78.
Indicating-lock. J. Heberling. No. 1,337,401; Apr. 20; v. 273; p. 456.
Indicator: *See*—
Battery-indicator. Pressure-indicator.
Engine-indicator. Rond-indicator.
Fuse-indicator. Sea-current-direction indicator.
Grade-indicator.
Hay-press indicator. Station-indicator.
License-indicator. Vehicle direction-indicator.
Mail-indicator.
Indicator-valve post. R. H. Thome and F. J. Miller. No. 1,338,263; Apr. 27; v. 273; p. 689.
Induction-coil. E. B. Jacobson. No. 1,335,837; Apr. 6; v. 273; p. 25.
Infant-chair. K. Schapel. No. 1,338,401; Apr. 27; v. 273; p. 715.
Infant-chair. J. Straith. No. 1,337,103; Apr. 13; v. 273; p. 326.
Infant-seat. W. H. Young. No. 1,335,776; Apr. 6; v. 273; p. 14.
Ingot-casting machine. F. L. Jamison. No. 1,336,234; Apr. 6; v. 273; p. 100.
Ingot-mold and molding. R. C. Woodward. No. 1,336,459; Apr. 13; v. 273; p. 202.
Inking mechanism. E. J. Smith. No. 1,338,044; Apr. 27; v. 273; p. 648.
Insect-catcher. L. Patton. No. 1,338,587; Apr. 27; v. 273; p. 749.
Insect-trap. L. A. Long. No. 1,335,845; Apr. 6; v. 273; p. 26.
Insole-making machine. E. H. Taylor. No. 1,337,290; Apr. 20; v. 273; p. 435.
Instep-support. W. C. Burns. No. 1,336,278; Apr. 6; v. 273; p. 108.
Insulating-bodies of "moler," Manufacturing. A. Fenger-Grön. No. 1,338,566; Apr. 27; v. 273; p. 746.
Insulating material, Composite. H. F. Weiss. No. 1,336,403; Apr. 6; v. 273; p. 132.
Insulating material, Composite. H. F. Weiss. No. 1,336,404; Apr. 6; v. 273; p. 132.
Insulator. L. Steinberger. No. 1,335,801; Apr. 6; v. 273; p. 18.
Insulator, Twin-bar suspension-. S. S. Sonneborn. No. 1,337,284; Apr. 20; v. 273; p. 434.
Intake-manifold heater. R. C. Reichel. No. 1,338,527; Apr. 27; v. 273; p. 738.
Interest-computing machine. W. F. Galloway. No. 1,336,900; Apr. 13; v. 273; p. 287.
Internal-combustion engine. C. H. T. Alston. No. 1,335,952; Apr. 6; v. 273; p. 47.
Internal-combustion engine. H. V. J. Jouffret. No. 1,336,298; Apr. 6; v. 273; p. 112.
Internal-combustion engine. E. T. Kershaw. No. 1,337,077; Apr. 13; v. 273; p. 321.
Internal-combustion engine. W. E. Looney. No. 1,338,185; Apr. 27; v. 273; p. 674.
Internal-combustion engine. O. T. Nelson. No. 1,336,371; Apr. 6; v. 273; p. 126.
Internal-combustion engine. O. T. Nelson. No. 1,336,372; Apr. 6; v. 273; p. 126.
Internal-combustion engine. P. J. M. Sullivan. No. 1,335,764; Apr. 6; v. 273; p. 12.
Internal-combustion engine. L. L. Turney. No. 1,337,417; Apr. 20; v. 273; p. 459.
Internal-combustion engine. H. L. Van Horning. No. 1,338,342; Apr. 27; v. 273; p. 704.
Internal-combustion engine. F. S. Wahl. No. 1,338,056; Apr. 27; v. 273; p. 650.
Internal-combustion engine. F. G. Welke. No. 1,335,947; Apr. 6; v. 273; p. 46.
Internal-combustion engine, Rotary. H. R. Sieverkropp. No. 1,338,256; Apr. 27; v. 273; p. 688.
Internal-combustion engine, Two-stroke. A. Isliker. No. 1,336,232; Apr. 6; v. 273; p. 100.
Internal-combustion motor. A. L. Smith. No. 1,336,392; Apr. 6; v. 273; p. 130.
Internal-combustion rotary engine. J. W. Birdzell. No. 1,338,207; Apr. 27; v. 273; p. 679.
Internal tube-heater, Electric. H. Gutzwiller. No. 1,336,559; Apr. 13; v. 273; p. 221.
Iron: *See*—
Bessemerizing iron. Waffle-iron.
Chair-iron.
Irons, Apparatus for testing. A. Pozzo and G. Colonnetti. No. 1,335,985; Apr. 6; v. 273; p. 53.
Ironing-board. F. C. Fuelling. No. 1,337,512; Apr. 20; v. 273; p. 477.
Ironing-board. P. D. Martindale. No. 1,337,936; Apr. 20; v. 273; p. 558.
Ironing-board fastener. W. C. Jackson. No. 1,337,073; Apr. 13; v. 273; p. 320.
Ironing-machine. L. H. Freeman. No. 1,336,427; Apr. 13; v. 273; p. 196.
Irrigation-pipe system. G. W. Rice. No. 1,336,048; Apr. 6; v. 273; p. 65.
Jack: *See*—
Automobile-jack. Pump-jack.
Automobile-wheel jack. Stationary jack.
Furniture-jack. Vehicle-jack.
Lifting-jack.
Locomotive-roundhouse jack.
Jack. J. C. Kopf. No. 1,337,519; Apr. 20; v. 273; p. 478.
Jack-centering device. J. A. Garcia. No. 1,337,065; Apr. 13; v. 273; p. 319.
Jar: *See*—
Fruit-jar. Sampling-jar.
Jar and bottle lifter, Fruit-. A. C. Burlingame. No. 1,337,540; Apr. 20; v. 273; p. 483.
Jar-cover remover. F. L. Reed. No. 1,337,158; Apr. 13; v. 273; p. 335.
Jar-lifter. H. Morley. No. 1,336,255; Apr. 6; v. 273; p. 104.
Jar machines, Transfer device for fruit-. R. B. Pottorff. No. 1,336,317; Apr. 6; v. 273; p. 115.
Jar wrench and holder. F. F. Girard. No. 1,337,899; Apr. 20; v. 273; p. 551.
Jewel-grinding machine. C. Stone. No. 1,338,406; Apr. 27; v. 273; p. 716.
Joint: *See*—
Ball-and-socket joint. Rail-joint.
Bedstead corner-joint. Railway-joint.
Expansion-joint. Roof-ventilator joint.
Limb-joint. Universal joint.
Joint puller, Universal-. J. A. Knowles. No. 1,337,233; Apr. 20; v. 273; p. 424.
Journal-bearings, Lubrication of. H. T. Newbigin. No. 1,336,373; Apr. 6; v. 273; p. 126.
Journal-box. J. Gothner. No. 1,336,428; Apr. 13; v. 273; p. 196.
Journal-box. A. C. McCord. No. 1,337,238; Apr. 20; v. 273; p. 425.
Journal-boxes, Hub-liner for. W. J. Tollerton. No. 1,338,340; Apr. 27; v. 273; p. 704.
Journal-boxes, Lubricator for. W. E. Crist. No. 1,337,201; Apr. 20; v. 273; p. 418.
Journal-boxes, Lubricator for. W. E. Crist. No. 1,337,202; Apr. 20; v. 273; p. 418.
Kafir-header. W. M. Garrett. No. 1,338,295; Apr. 27; v. 273; p. 695.
Kettle. A. T. Timosci. No. 1,336,869; Apr. 13; v. 273; p. 281.
Key: *See*—
Cotter-key.
Key. E. Westberg. No. 1,338,542; Apr. 27; v. 273; p. 741.
Key-bearing for padlocks. C. W. Meadowcroft, Sr. No. 1,338,515; Apr. 27; v. 273; p. 737.
Key-ring. H. G. Johnson. No. 1,338,085; Apr. 27; v. 273; p. 656.
Keyboard-cleaner. J. W. Pennewill. No. 1,336,044; Apr. 6; v. 273; p. 64.
Keyboard, Typewriter-. F. M. M. Banaji. No. 1,336,122; Apr. 6; v. 273; p. 79.
Keyless lock, Safety. J. Mace. No. 1,337,242; Apr. 20; v. 273; p. 426.
Kit, First-aid. C. A. Brewer. No. 1,337,433; Apr. 20; v. 273; p. 462.
Kitchen, Field-. V. De Carlo. No. 1,335,941; Apr. 6; v. 273; p. 45.
Kite and making same. H. B. Holtvoigt. No. 1,337,403; Apr. 20; v. 273; p. 456.
Knife: *See*—
Pocket-knife. Surgeon's plaster-knife.
Knife-handle. P. Mertens and H. Backert. No. 1,335,847; Apr. 6; v. 273; p. 27.
Knitting machine, Circular glove-. G. Stibbe. No. 1,337,099; Apr. 13; v. 273; p. 325.
Label-pasting machine. S. S. Yenovkian. No. 1,337,684; Apr. 20; v. 273; p. 510.
Labeling-machine. J. L. Whitehurst. No. 1,338,603; Apr. 27; v. 273; p. 752.
Lace with gauze-like ground made on single-thread machines. E. Türck. No. 1,337,294; Apr. 20; v. 273; p. 436.
Ladder and bench, Convertible. S. Kasper. No. 1,337,361; Apr. 20; v. 273; p. 449.
Ladder, Step and wall. L. Seger. No. 1,338,100; Apr. 27; v. 273; p. 658.
Ladle, Bottle-pour. F. Cordes. No. 1,338,001; Apr. 27; v. 273; p. 640.
Lamp, Battery hand-. C. F. Burgess. No. 1,336,067; Apr. 6; v. 273; p. 68.
Lamp. A. Salzer. No. 1,338,194; Apr. 27; v. 273; p. 676.
Lamp, Bed-. H. P. Whitaker. No. 1,337,867; Apr. 20; v. 273; p. 545.
Lamp burner, Carbid-. L. E. Polhemus. No. 1,338,038; Apr. 27; v. 273; p. 647.
Lamp-burners, Air-distributer for. J. K. Davis. No. 1,337,825; Apr. 20; v. 273; p. 536.
Lamp-dimmer. C. W. Elsele. No. 1,335,727; Apr. 6; v. 273; p. 5.

Lamp-dimmer. G. W. Ray and W. V. Harrington. No. 1,335,918; Apr. 6; v. 273; p. 40.
Lamp holder, Incandescent-electric-. P. M. R. Salles. No. 1,336,587; Apr. 13; v. 273; p. 226.
Lamp, Hydrocarbon-. F. A. Raffel. No. 1,337,620; Apr. 20; v. 273; p. 497.
Lamp, Sanctuary-. E. J. Knapp. No. 1,336,635; Apr. 13; v. 273; p. 235.
Lamp, Signal-. G. Jacobs and F. C. Ruppel. No. 1,337,230; Apr. 20; v. 273; p. 424.
Lamp-socket construction. O. S. Swanson. No. 1,336,395; Apr. 6; v. 273; p. 130.
Lamp socket, Electric-. R. B. Benjamin. No. 1,336,607; Apr. 13; v. 273; p. 230.
Lamp socket, Incandescent-. W. W. O. Fenety. No. 1,336,736; Apr. 13; v. 273; p. 255.
Lamp-socket structure. H. A. Framburg. No. 1,335,828; Apr. 6; v. 273; p. 23.
Lamp stems, Machine for making incandescent-. C. Eisler. No. 1,338,500; Apr. 27; v. 273; p. 734.
Lamp, Storage-battery. C. W. Hazelett. No. 1,338,222; Apr. 27; v. 273; p. 681.
Lamps, Shade-holder support for. A. G. Kaufman. No. 1,338,635; Apr. 27; v. 273; p. 758.
Lampblack-manufacturing plant. E. Viertel. No. 1,338,268; Apr. 27; v. 273; p. 690.
Land-leveling machine. G. A. Ghent. No. 1,337,355; Apr. 20; v. 273; p. 448.
Lantern. J. N. Klema. No. 1,335,841; Apr. 6; v. 273; p. 26.
Lantern. F. W. Vinton. No. 1,336,112; Apr. 6; v. 273; p. 77.
Lantern-burner. G. H. Rolfes. No. 1,337,795; Apr. 20; v. 273; p. 531.
Last. E. W. Gerrish. No. 1,338,650; Apr. 27; v. 273; p. 761.
Lasting-machine. O. Ashton. No. 1,335,779; Apr. 6; v. 273; p. 15.
Latch. H. J. Peterson. No. 1,338,153; Apr. 27; v. 273; p. 668.
Latch, Door-. W. A. Freeman. No. 1,337,447; Apr. 20; v. 273; p. 465.
Latch, Gate-. V. G. Bruber. No. 1,338,209; Apr. 27; v. 273; p. 679.
Latch-lock. J. Wolf. No. 1,336,496; Apr. 13; v. 273; p. 208.
Latch, Self-operating. P. E. Dutcher. No. 1,338,219; Apr. 27; v. 273; p. 681.
Lath-weaving machine. H. E. Law and E. Pooler. No. 1,336,908; Apr. 13; v. 273; p. 289.
Lathe-center. E. M. Hoover. No. 1,338,451; Apr. 27; v. 273; p. 724.
Lathes and grinders, Friction-driver for. G. B. Amundson. No. 1,336,548; Apr. 13; v. 273; p. 219.
Lathes, Cylinder-grinding attachment for. W. T. Snell. No. 1,335,994; Apr. 6; v. 273; p. 55.
Lavatory. E. G. Watrous. No. 1,335,946; Apr. 6; v. 273; p. 45.
Lawns, gardens, fields, &c., Sprinkler for irrigating. W. D. Ballerstedt. No. 1,337,744; Apr. 20; v. 273; p. 521.
Lawns, Implement for use on. H. M. McNeill. No. 1,338,144; Apr. 27; v. 273; p. 666.
Lead, Production of. G. F. Greenwood. No. 1,338,440; Apr. 27; v. 273; p. 722.
Leads, Multiconducting. W. E. Krone. No. 1,337,080; Apr. 13; v. 273; p. 322.
Leaf and waste furnace, Portable. A. Dolen. No. 1,338,125; Apr. 27; v. 273; p. 663.
Leather and joint made thereby, Joining. W. Gibb. No. 1,335,830; Apr. 6; v. 273; p. 24.
Leather and leather substitutes and making same, Dressing for. A. R. Caldwell. No. 1,338,286; Apr. 27; v. 273; p. 693.
Leg, Artificial. C. Desoutter. No. 1,335,781; Apr. 6; v. 273; p. 15.
Leather, Artificial. A. A. Somerville. No. 1,337,802; Apr. 20; v. 273; p. 532.
Leather, Machine for joining pieces of. L. J. Henriksen. No. 1,337,069; Apr. 13; v. 273; p. 320.
Leather-skiving machine. G. O. Terry. No. 1,336,597; Apr. 13; v. 273; p. 228.
Leather substitute. J. D. Prince. No. 1,336,858; Apr. 13; v. 273; p. 279.
Leg extension. F. Nelson. No. 1,336,480; Apr. 13; v. 273; p. 206.
Lens frame, Ophthalmic-test-. M. Poser. No. 1,337,265; Apr. 20; v. 273; p. 430.
Lens-holder. S. G. Marshall. No. 1,337,086; Apr. 13; v. 273; p. 323.
Lens-testing instrument. H. B. Mathewson. No. 1,336,040; Apr. 6; v. 273; p. 64.
Letter-files, Arrangement for. S. Ringer. No. 1,336,584; Apr. 13; v. 273; p. 226.
Level and plumb, Gravity. J. E. Lillberg. No. 1,338,639; Apr. 27; v. 273; p. 759.
Lever, Scale-. C. E. Bird. No. 1,337,635; Apr. 20; v. 273; p. 500.
License-indicator. J. M. McCarthy. No. 1,336,706; Apr. 13; v. 273; p. 250.
License-tag holder. T. J. Chappell. No. 1,338,422; Apr. 27; v. 273; p. 719.
Lid-supporting device. S. W. Parsons. No. 1,337,791; Apr. 20; v. 273; p. 530.
Life-preserver, Airman's. S. D. Mott. No. 1,337,788; Apr. 20; v. 273; p. 530.
Life-preserver, Jacket-type. C. H. Young. No. 1,336,400; Apr. 6; v. 273; p. 131.
Lifting instrument. C. Yackel. No. 1,336,461; Apr. 13; v. 273; p. 202.
Lifting-jack. L. E. Johnson. No. 1,336,906; Apr. 13; v. 273; p. 288.
Lifting-jack. F. L. Rapson. No. 1,338,589; Apr. 27; v. 273; p. 749.
Light: *See*—
Fisherman's submersible light.
Headlight.
Hydrocarbon-light.
Vehicle curtain-light.
Light-controlling device. W. J. Harvey. No. 1,335,832; Apr. 6; v. 273; p. 24.
Light-distributing means. W. H. Fulton. No. 1,335,889; Apr. 6; v. 273; p. 35.
Lightning-arrester. G. P. A. Damschen. No. 1,338,213; Apr. 27; v. 273; p. 680.
Limb and foot brace. A. J. Gromes. No. 1,336,695; Apr. 13; v. 273; p. 248.
Limb, Artificial. H. J. Morris. No. 1,338,243; Apr. 27; v. 273; p. 685.
Limb joint, Artificial. G. R. Bott. No. 1,336,812; Apr. 13; v. 273; p. 270.
Lime and sulfur product and making same, Dry. O. F. Hedenburg. No. 1,336,957; Apr. 13; v. 273; p. 298.
Lineman's climber. J. M. Frisbie and E. C. Tilton. No. 1,335,945; Apr. 6; v. 273; p. 45.
Linen, Machine for marking. A. Hammer and F. Egersdörfer. No. 1,337,650; Apr. 20; v. 273; p. 503.
Linotype-mold. E. L. Holmes. No. 1,337,358; Apr. 20; v. 273; p. 448.
Liquid cooling and dispensing apparatus. H., C., Jr., and M. Doering. No. 1,337,206; Apr. 20; v. 273; p. 419.
Liquid-dispensing devices, Cooling means for. C. A. Tripp. No. 1,336,172; Apr. 6; v. 273; p. 89.
Liquid-fuel-vending machine. L. Latham. No. 1,338,229; Apr. 27; v. 273; p. 633.
Liquid-heating furnace. F. E. Wellman. No. 1,335,774; Apr. 6; v. 273; p. 14.
Liquids, Apparatus for gasifying. E. H. Cuyler and M. B. Patterson. No. 1,336,822; Apr. 13; v. 273; p. 272.
Liquids, Apparatus for straining or filtering. P. J. Darlington. No. 1,337,756; Apr. 20; v. 273; p. 524.
Liquids, Apparatus for treating. W. O. Rew. No. 1,336,655; Apr. 13; v. 273; p. 239.
Liquids from solids, Process and apparatus for separating. H. C. Behr. No. 1,336,722; Apr. 13; v. 273; p. 253.
Liquids with gases or other components and the products thereof, Including carbonating beverages, Electrical process and apparatus for compounding. J. E. Bloom. No. 1,338,352; Apr. 27; v. 273; p. 706.
Listing-machine. O. D. Johantgen. No. 1,336,840; Apr. 13; v. 273; p. 275.
Loader. N. A. Fuller. No. 1,337,896; Apr. 20; v. 273; p. 550.
Loading and unloading device. B. L. Hines. No. 1,337,356; Apr. 20; v. 273; p. 448.
Loading device. C. A. Brawn. No. 1,336,674; Apr. 13; v. 273; p. 243.
Loading-machine. H. F. Lessmann. No. 1,337,082; Apr. 13; v. 273; p. 322.
Lock: *See*—
Auto-lock.
Automobile-lock.
Bicycle-pump lock.
Chain-lock.
Door-lock.
Indicating-lock.
Keyless lock.
Latch-lock.
Nut-lock.
Nut and bolt lock.
Padlock.
Permutation hasp-lock.
Safe-lock.
Safety-lock.
Sash-lock.
Slug-lock.
Vehicle-lock.
Window-lock.
Lock. H. H. Crane. No. 1,335,821; Apr. 6; v. 273; p. 22.
Lock. B. Freedman. No. 1,337,511; Apr. 20; v. 273; p. 477.
Lock. J. Karasevicz. No. 1,336,080; Apr. 6; v. 273; p. 71.
Lock. R. A. Nesmith. No. 1,338,150; Apr. 27; v. 273; p. 667.
Lock. C. Wróblewski. No. 1,338,605; Apr. 27; v. 273; p. 752.
Lock mechanism. H. G. Voight. No. 1,338,053; Apr. 27; v. 273; p. 649.
Lock, retainer, and interlock for shifter devices. G. C. Jensen. No. 1,337,654; Apr. 20; v. 273; p. 504.
Lock-washer. W. F. Farnsworth. No. 1,335,944; Apr. 6; v. 273; p. 45.
Locking device. B. L. Hendricks. No. 1,338,131; Apr. 27; v. 273; p. 664.
Locking device. W. H. Greenleaf. No. 1,338,221; Apr. 27; v. 273; p. 681.
Locking device, Time-controlled dead-. R. C. Lewis. No. 1,337,928; Apr. 20; v. 273; p. 556.
Locking mechanism. H. W. Corning. No. 1,337,545; Apr. 20; v. 273; p. 483.
Locomotive-boiler. J. L. Nicholson. No. 1,337,720; Apr. 20; v. 273; p. 517.
Locomotive construction. G. M. Eaton. No. 1,336,555; Apr. 13; v. 273; p. 220.
Locomotive driving-box. F. J. Cole. No. 1,338,491; Apr. 27; v. 273; p. 732.
Locomotive-firebox arch. G. E. Ryder. No. 1,337,486; Apr. 20; v. 273; p. 472.

Locomotive-roundhouse jack. G. F. Devine. No. 1,337,347; Apr. 20; v. 273; p. 446.
Locomotive-scale. G. Schnurr. No. 1,338,593; Apr. 27; v. 273; p. 750.
Locomotive, Storage-battery. R. Mancha. No. 1,337,610; Apr. 20; v. 273; p. 495.
Locomotive. Storage-battery. W. W. Sloane. No. 1,337,334; Apr. 20; v. 273; p. 444.
Locomotives, Feeding device for pulverous fuel in furnaces for. K. H. V. von Porat. No. 1,337,738; Apr. 20; v. 273; p. 520.
Locomotives, Mechanism for operating the reels of mine-. F. B. Deans and B. K. Kirk. No. 1,337,048; Apr. 13; v. 273; p. 315.
Logging system. O. A. Wirkkala. No. 1,336,877; Apr. 13; v. 273; p. 282.
Loom. P. G. Gleleu. No. 1,336,741; Apr. 13; v. 273; p. 256.
Loom. R. G. Turner. No. 1,336,545; Apr. 13; v. 273; p. 219.
Loom, Needle-. H. R. Parker. No. 1,337,259; Apr. 20; v. 273; p. 429.
Loom picker-stick check. W. W. Hestley. No. 1,337,070; Apr. 13; v. 273; p. 320.
Loom-shuttles, Thread-lock for hand-threading. J. V. Allen. No. 1,336,805; Apr. 13; v. 273; p. 269.
Looms, Automatic controlling attachment for. L. Rothfuchs. No. 1,336,089; Apr. 6; v. 273; p. 73.
Looms, Safety stop-motion for Jacquard. L. S. Cannon. No. 1,336,677; Apr. 13; v. 273; p. 244.
Looms, Shed-forming mechanism for. L. W. Coupe. No. 1,335,876; Apr. 6; v. 273; p. 32.
Looms, Weft-detector for. E. H. Ryon. No. 1,337,726; Apr. 20; v. 273; p. 518.
Loop, Drop-stake. W. J. Knox. No. 1,336,636; Apr. 13; v. 273; p. 236.
Lubricant-delivering device, Self-measuring. D. W. Barr. No. 1,336,187; Apr. 6; v. 273; p. 91.
Lubricating composition, Making. J. A. De Cew. No. 1,336,207; Apr. 6; v. 273; p. 95.
Lubricating device. R. A. Bates. No. 1,336,413; Apr. 13; v. 273; p. 194.
Lubricator. L. J. Mruk. No. 1,336,853; Apr. 13; v. 273; p. 278.
Lubricator. J. T. Wallis. No. 1,337,494; Apr. 20; v. 273; p. 473.
Lug-strap connection. L. Durand. No. 1,337,055; Apr. 13; v. 273; p. 317.
Magnesium chlorid, Making. H. H. Dow and E. O. Barstow. No. 1,336,425; Apr. 13; v. 273; p. 196.
Magneto with watertight casing. G. A. Chailliey. No. 1,336,196; Apr. 6; v. 273; p. 93.
Mail-bag catcher and deliverer. S. Misco. No. 1,336,851; Apr. 13; v. 273; p. 278.
Mail-bag-transferring device. M. J. Kissel. No. 1,338,228; Apr. 27; v. 273; p. 683.
Mail-box installation, Rural. C. Murray. No. 1,337,089; Apr. 13; v. 273; p. 323.
Mail-box, Rural. P. V. Brazill. No. 1,336,417; Apr. 13; v. 273; p. 195.
Mail carrier or container. L. H. Blocker. No. 1,338,066; Apr. 27; v. 273; p. 652.
Mail-indicator, Electric. F. J. Otto. No. 1,336,652; Apr. 13; v. 273; p. 239.
Mail-transferring apparatus. E. A. Rasbell. No. 1,337,956; Apr. 20; v. 273; p. 562.
Mailer-strips and proof-sheets, Hand-printer for. L. W. Millsap, Jr. No. 1,338,642; Apr. 27; v. 273; p. 759.
Manganates, Making. H. McCormack. No. 1,337,239; Apr. 20; v. 273; p. 425.
Manger-partition. J. M. B. Lewis. No. 1,337,926; Apr. 20; v. 273; p. 556.
Manifolding-machine. A. Krauth. No. 1,338,140; Apr. 27; v. 273; p. 666.
Marble-shooter. A. E. Madison. No. 1,337,934; Apr. 20; v. 273; p. 558.
Marker. C. A. Fischer. No. 1,336,029; Apr. 6; v. 273; p. 62.
Massage implement, Combination faradic and vibratory. E. M. Kojima. No. 1,338,020; Apr. 27; v. 273; p. 643.
Match-boxing attachment. G. Lispenard. No. 1,336,245; Apr. 6; v. 273; p. 102.
Match-container. H. Humm. No. 1,335,970; Apr. 6; v. 273; p. 51.
Match-lighter. M. E. Hill. No. 1,336,698; Apr. 13; v. 273; p. 248.
Match-machine attachment. G. Lispenard. No. 1,336,244; Apr. 6; v. 273; p. 102.
Match-machine hoppers, Pin-gate for. G. Lispenard. No. 1,336,247; Apr. 6; v. 273; p. 103.
Match-machines, Registering attachment for. G. Lispenard. No. 1,336,246; Apr. 6; v. 273; p. 102.
Match-making machine. W. Wheal. No. 1,337,109; Apr. 13; v. 273; p. 327.
Mats of fibrous material, Production of. H. F. Weiss. No. 1,336,402; Apr. 6; v. 273; p. 132.
Mattress. F. Hoffmann. No. 1,335,965; Apr. 6; v. 273; p. 50.
Mattress-holder. C. A. Van Demark. No. 1,336,003; Apr. 6; v. 273; p. 57.
Mattress, Spring-. F. Karr. No. 1,337,320; Apr. 20; v. 273; p. 441.
Mausoleums, Promoting body preservation in. O. V. Martin. No. 1,338,579; Apr. 27; v. 273; p. 748.
Measuring and computing machine, Fabric. W. E. Hosch. No. 1,336,230; Apr. 6; v. 273; p. 99.
Measuring appliance, Automatic liquid-. L. M. Smith. No. 1,335,800; Apr. 6; v. 273; p. 18.
Measuring device, Cloth-. L. P. Dunkelberger. No. 1,337,891; Apr. 20; v. 273; p. 549.
Measuring device, Time-. C. Haas. No. 1,337,014; Apr. 13; v. 273; p. 309.
Measuring instrument, Electrical. W. M. Bradshaw and W. G. Wyllus. No. 1,336,611; Apr. 13; v. 273; p. 231.
Measuring-instrument switch, Electrical. I. W. Broegger. No. 1,336,419; Apr. 13; v. 273; p. 195.
Measuring machine, Fabric-. H. E. Pauk. No. 1,337,260; Apr. 20; v. 273; p. 429.
Measuring system, Time-. S. B. Williams, Jr., and W. F. Albert. No. 1,337,680; Apr. 20; v. 273; p. 509.
Mechanical movement. E. M. Doherty. No. 1,338,427; Apr. 27; v. 273; p. 720.
Mechanical movement. J. C. Kopf. No. 1,338,377; Apr. 27; v. 273; p. 711.
Medical appliance. W. J. Doyle. No. 1,337,829; Apr. 20; v. 273; p. 537.
Melting-furnace, Electrically-heated. L. C. Harvey. No. 1,337,839; Apr. 20; v. 273; p. 539.
Memorandum-pad, Indexed. G. Schlemmer. No. 1,338,331; Apr. 27; v. 273; p. 702.
Metal bending and forming machine. F. L. H. Sims. No. 1,336,660; Apr. 13; v. 273; p. 240.
Metal building unit. J. D. Waern. No. 1,336,324; Apr. 6; v. 273; p. 117.
Metal fastener. W. E. Williams. No. 1,338,411; Apr. 27; v. 273; p. 717.
Metal-heating furnace. H. D. Williams and W. Ahlen. No. 1,336,266; Apr. 6; v. 273; p. 106.
Metal hydroxids, Manufacture of. M. Buchner. No. 1,337,192; Apr. 20; v. 273; p. 417.
Metal in lubricating-oil, Means for arresting particles of. F. J. Cox. No. 1,335,955; Apr. 6; v. 273; p. 48.
Metal, Introducing materials into molten. A. Pacz. No. 1,337,093; Apr. 13; v. 273; p. 324.
Metal sheet-piling section and wall. C. C. Conkling. No. 1,338,287; Apr. 27; v. 273; p. 693.
Metal sheets, Method of and apparatus for treating. H. W. Lamb. No. 1,337,458; Apr. 20; v. 273; p. 467.
Metal wheel. J. A. Anglada. No. 1,336,334; Apr 6; v. 273; p. 119.
Metal while being milled, Apparatus for forming a smooth surface on. T. B. Kinraide. No. 1,336,239; Apr. 6; v. 273; p. 101.
Metal-working feeding mechanism. A. Trosch. No. 1,336,108; Apr. 6; v. 273; p. 77.
Metal-working machine. W. C. Loring and C. E. Jacobson. No. 1,338,456; Apr. 27; v. 273; p. 725.
Metals, Cleansing ferrous and non-ferrous. S. R. Mason. No. 1,337,718; Apr. 20; v. 273; p. 516.
Metals, Electrochemical precipitation of. E. R. Holden. (Reissue.) No. 14,849; Apr. 27; v. 273; p. 764.
Metals from their ores, Recovery of. H. V. Welch. No. 1,338,271; Apr. 27; v. 273; p. 691.
Metals, Melting and melting and reducing. M. H. Bennett. No. 1,337,305; Apr. 20; v. 273; p. 438.
Metallic articles, Method of and apparatus for heat-treating. H. P. Macdonald. No. 1,335,977; Apr. 6; v. 273; p. 52.
Metallurgical furnace. S. M. Howell. No. 1,337,703; Apr. 20; v. 273; p. 513.
Metallurgical method and appliances. G. F. Greenwood. No. 1,338,439; Apr. 27; v. 273; p. 722.
Meter: *See*—
Ratio-meter.
Meters, Protective casing for electric. J. J. Schickluna. No. 1,337,163; Apr. 13; v. 273; p. 336.
Mica and mica-slate, Manufacture of. C. J. Patton. No. 1,338,393; Apr. 27; v. 273; p. 713.
Milk-bottle handle. C. Dutcher. No. 1,338,660; Apr. 27; v. 273; p. 763.
Milk-claw support. S. B. Sifleet. No. 1,336,593; Apr. 13; v. 273; p. 227.
Milk in centrifugal apparatus, Inlet device for the whole-. S. A. Eskilson. No. 1,335,784; Apr. 6; v. 273; p. 16.
Milk, Safety-box for. L. Antonuk. No. 1,338,659; Apr. 27; v. 273; p. 762.
Milking apparatus. M. Lammers. No. 1,338,182; Apr. 27; v. 273; p. 674.
Milking-machine. J. G. G. Eklundh, C. Oden, and J. A. Schmitt. No. 1,337,211; Apr. 20; v. 273; p. 420.
Milking-machines, Pulsator for. H. B. Babson. No. 1,335,953; Apr. 6; v. 273; p. 47.
Mill: *See*—
Ball-mill.
Coffee-mill.
Mills, Feeding device for grinding cylinder-. E. Roth. No. 1,337,567; Apr. 20; v. 273; p. 487.
Mills, Sampling device for pulverizer-. J. W. Fuller. No. 1,337,097; Apr. 20; v. 273; p. 512.
Milling-cutter. J. R. Richer and J. O. Hessler. No. 1,338,158; Apr. 27; v. 273; p. 669.
Mining machine, Coal-. G. McCarter. No. 1,336,039; Apr. 6; v. 273; p. 63.
Mining-machines, Cutter-bar and bit-chain for. E. T. Silvius. No. 1,336,927; Apr. 13; v. 273; p. 292.
Mines, Safety device for. J. A. Nolan. No. 1,337,943; Apr. 20; v. 273; p. 559.
Mines, torpedoes, &c., Firing device for submarine. N. W. Ubr and J. H. Sandberg. No. 1,336,873; Apr. 13; v. 273; p. 282.

Mixer: *See*—
Concrete-mixer. Water-mixer.
Foundry-mixer.
Mixer. W. J. Fees. No. 1,337,468; Apr. 20; v. 273; p. 469.
Mixing and dispensing apparatus, Combined. P. Forman. No. 1,336,214; Apr. 6; v. 273; p. 96.
Mixing and grinding apparatus irregularly operated. R. D. Maddox. No. 1,337,716; Apr. 20; v. 273; p. 516.
Mixing and kneading machine. F. Aeschbach. No. 1,336,878; Apr. 13; v. 273; p. 283.
Mixing-machine. G. Royan. No. 1,336,862; Apr. 13; v. 273; p. 280.
Mold: *See*—
Brick and block mold. Linotype-mold.
Chill-mold. Plastic mold.
Drain-tile mold.
Mold-handling machine. C. K. Prince. No. 1,337,268; Apr. 20; v. 273; p. 431.
Molder's flask. R. S. Buch. No. 1,335,818; Apr. 6; v. 273; p. 22.
Molding-core. L. C. Evon. No. 1,336,212; Apr. 6; v. 273; p. 96.
Molding device, Mechanical. B. A. Shutts and J. O. Goodwin. No. 1,338,162; Apr. 27; v. 273; p. 670.
Molding-machine. E. O. Beardsley and W. F. Piper. No. 1,337,585; Apr. 20; v. 273; p. 491.
Molding-machine. J. H. Lonskey. No. 1,337,780; Apr. 20; v. 273; p. 528.
Molding semisolid substances. B. J. Allen. No. 1,337,811; Apr. 20; v. 273; p. 533.
Monkey-wrench. J. Kocha. No. 1,338,376; Apr. 27; v. 273; p. 710.
Monolithic structures, Method and apparatus for forming. A. F. Volz, Jr. No. 1,337,493; Apr. 20; v. 273; p. 473.
Mother-starter ripener. N. Christensen. No. 1,336,728; Apr. 13; v. 273; p. 254.
Motion-converting device. T. E. Lewis. No. 1,336,847; Apr. 13; v. 273; p. 277.
Motor: *See*—
Aeronautical motor. Hydrocarbon-motor.
Air-motor. Internal-combustion motor.
Electric motor. Spring-motor.
Electrically-operated vibratory motor.
Motor-control system. E. R. Carichoff. No. 1,337,040; Apr. 13; v. 273; p. 314.
Motor-control system. R. E. Hellmund. No. 1,336,561; Apr. 13; v. 273; p. 221.
Motor-control system, Single-phase. R. E. Hellmund. No. 1,338,367; Apr. 27; v. 273; p. 709.
Motor-starting switch. C. H. Bissell. No. 1,336,064; Apr. 6; v. 273; p. 68.
Motor, Synchronous alternating-current. V. A. Fynn. No. 1,337,648; Apr. 20; v. 273; p. 502.
Motors, System of control for alternating-current commutator-. R. E. Hellmund. No. 1,338,368; Apr. 27; v. 273; p. 709.
Motors, Controlling means for electric. F. G. Warburton. No. 1,337,573; Apr. 20; v. 273; p. 488.
Motors, Machining hydrocarbon-. J. G. Vincent. No. 1,336,800; Apr. 13; v. 273; p. 268.
Motors, Radiating system for internal-combustion. C. Carson. No. 1,336,613; Apr. 13; v. 273; p. 232.
Motors, Speed-control system for induction-. B. G. Lamme and W. Sykes. No. 1,336,566; Apr. 13; v. 273; p. 222.
Motorcycle. P. J. O'Neill. No. 1,337,946; Apr. 20; v. 273; p. 560.
Motorcycle saddle attachment. R. Scholz. No. 1,337,025; Apr. 13; v. 273; p. 310.
Motorcycle-support. J. G. Lydecker. No. 1,338,029; Apr. 27; v. 273; p. 645.
Mousetrap. D. Cook. No. 1,337,044; Apr. 13; v. 273; p. 315.
Mower, Lawn-. C. Coniglio. No. 1,338,123; Apr. 27; v. 273; p. 663.
Mower, Lawn-. E. E. Muzzy. No. 1,336,257; Apr. 6; v. 273; p. 105.
Mower, Lawn-. C. A. Tofft. No. 1,338,199; Apr. 27; v. 273; p. 677.
Mower structure, Lawn-. W. P. M. Braun. No. 1,338,285; Apr. 27; v. 273; p. 693.
Mowing-machine attachment. R. W. Wallace. No. 1,337,863; Apr. 20; v. 273; p. 544.
Muff, Automobile-. A. R. Thomas. No. 1,336,763; Apr. 13; v. 273; p. 260.
Muffler. R. Brown. No. 1,335,872; Apr. 6; v. 273; p. 31.
Muffler. G. W. Moores. No. 1,338,520; Apr. 27; v. 273; p. 737.
Multiphase-slow-sine-wave producer. R. H. Wappler. No. 1,338,269; Apr. 27; v. 273; p. 690.
Multiplane, Convertible. J. P. Tarbox. No. 1,336,406; Apr. 6; v. 273; p. 132.
Multiple shaper. G. E. Stevenson. No. 1,335,864; Apr. 6; v. 273; p. 30.
Multiplying-machine. G. M. Bacon. No. 1,338,274; Apr. 27; v. 273; p. 691.
Music, Device for teaching. A. L. Maxwell. No. 1,337,937; Apr. 20; v. 273; p. 558.
Music-machine. D. A. Gilliom. No. 1,338,620; Apr. 27; v. 273; p. 755.
Musical instruments, Fastener for tailpieces of. B. Poehland. No. 1,337,793; Apr. 20; v. 273; p. 530.
Mute. F. Sordillo. No. 1,338,108; Apr. 27; v. 273; p. 660.
Nail, Clench or expansion. E. C. Royer and B. J. Boyle. No. 1,336,162; Apr. 6; v. 273; p. 87.
Nail-mount. W. E. Elliott. No. 1,337,212; Apr. 20; v. 273; p. 420.
Napkin-holder. A. Henderson. No. 1,336,744. Apr. 13; v. 273; p. 257.
Necktie-fastener. R. Cooperman. No. 1,336,618; Apr. 13; v. 273; p. 233.
Needle. C. A. Port. No. 1,338,525; Apr. 27; v. 273; p. 738.
Nest, Hen's. C. Willeford. No. 1,336,802; Apr. 13; v. 273; p. 268.
Nest, Trap-. C. W. Bour. No. 1,336,191; Apr. 6; v. 273; p. 92.
Nipple protector, Baby-. L. E. Marsh. No. 1,336,366; Apr. 6; v. 273; p. 125.
Nitrids, Making solid bodies from. E. Podszus. No. 1,337,264; Apr. 20; v. 273; p. 430.
Nitrogen compounds from carbids, Manufacturing. O. F. S. Carlson. No. 1,337,750; Apr. 20; v. 273; p. 523.
Non-crucible furnace. J. E. Hausfeld. No. 1,336,137; Apr. 6; v. 273; p. 82.
Non-skid wheel. A. Nelson and O. H. Hinnard. No. 1,336,149; Apr. 6; v. 273; p. 84.
Numbering-head. M. H. Kern. No. 1,337,232; Apr. 20; v. 273; p. 424.
Nut and bolt lock. O. B. Kirkbride. No. 1,335,901; Apr. 6; v. 273; p. 37.
Nut-lock. F. P. Deever. No. 1,336,733; Apr. 13; v. 273; p. 255.
Nut-lock. F. L. Hemmer. No. 1,337,700; Apr. 20; v. 273; p. 513.
Nut-lock. R. T. Skipworth. No. 1,337,164; Apr. 13; v. 273; p. 337.
Nut-lock. J. B. Word. No. 1,337,424; Apr. 20; v. 273; p. 460.
Nut-locking device. W. J. Hales. No. 1,336,077; Apr. 6; v. 273; p. 71.
Nut-meat-dispensing device. J. H. Clappison. No. 1,337,440; Apr. 20; v. 273; p. 463.
Nut, Safety-. J. C. Haldeman. No. 1,336,955; Apr. 13; v. 273; p. 297.
Nuts, Apparatus for making. F. Mummelthey and C. H. Holmes. No. 1,338,244; Apr. 27; v. 273; p. 685.
Oil and soap solution. J. A. De Cew. No. 1,337,546; Apr. 20; v. 273; p. 483.
Oil, Apparatus for refining. F. E. Wellman. No. 1,335,772; Apr. 6; v. 273; p. 13.
Oil-bolt. A. D. Ray. No. 1,336,654; Apr. 13; v. 273; p. 230.
Oil-cakes, Means for forming. R. A. Trace. No. 1,336,171; Apr. 6; v. 273; p. 88.
Oil-cup. W. G. Coles. No. 1,338,554; Apr. 27; v. 273; p. 743.
Oil-engine. E. H. Crossen. No. 1,338,289; Apr. 27; v. 273; p. 694.
Oil-engine. F. G. Hobart and C. B. Jahnke. No. 1,337,771; Apr. 20; v. 273; p. 527.
Oil-engine-feeding device. F. G. Hobart. No. 1,337,770; Apr. 20; v. 273; p. 526.
Oil-heater. R. Dougherty and J. F. Kirby. No. 1,336,208; Apr. 6; v. 273; p. 95.
Oil-refining apparatus. F. E. Wellman. No. 1,335,767; Apr. 6; v. 273; p. 12.
Oil, System for cracking mineral. F. E. Wellman. No. 1,335,769; Apr. 6; v. 273; p. 13.
Oil under steam-pressure, Method of and apparatus for distributing lubricating-. J. G. Talmage. No. 1,337,179; Apr. 13; v. 273; p. 340.
Oils, Apparatus for refining. H. W. Jones. No. 1,336,357; Apr. 6; v. 273; p. 123.
Oils, Apparatus for refining mineral. F. E. Wellman. No. 1,335,773; Apr. 6; v. 273; p. 14.
Oils, Refining cracked. E. H. Leslie and C. Barbre. No. 1,337,523; Apr. 20; v. 273; p. 479.
Oils, Removing or decreasing objectionable odors from treated. J. E. Booge. No. 1,337,339; Apr. 20; v. 273; p. 445.
Oils, System for treating hydrocarbon. F. E. Wellman and F. H. Sibley. No. 1,335,770; Apr. 6; v. 273; p. 13.
Oiler, Automatic. C. L. Bubb. No. 1,337,687; Apr. 20; v. 273; p. 510.
Oiler, Machine-. J. M. Bukacek. No. 1,337,688; Apr. 20; v. 273; p. 510.
Oiling device. D. G. Roos. No. 1,338,160; Apr. 27; v. 273; p. 670.
Open-hearth furnace. J. C. Cromwell. No. 1,338,288; Apr. 27; v. 273; p. 694.
Operation-control record. H. A. Arthur. No. 1,336,120; Apr. 6; v. 273; p. 79.
Ordnance, Breech mechanism of. A. T. Dawson and G. T. Buckham. No. 1,337,004; Apr. 13; v. 273; p. 306.
Ordnance, Lock mechanism of. A. T. Dawson and G. T. Buckham. No. 1,337,308; Apr. 20; v. 273; p. 439.
Ore, Apparatus for desulfurizing and treating. B. Q. P. Foss. No. 1,338,292; Apr. 27; v. 273; p. 695.
Ore-concentrator. E. and W. F. Deister. No. 1,335,824; Apr. 6; v. 273; p. 23.
Ore-flotation agent, Producing an. H. Cannon, C. Barbre, and E. H. Leslie. No. 1,337,542; Apr. 20; v. 273; p. 483.
Ore-smelting furnace, Electric iron-. J. D. Shipton. No. 1,338,103; Apr. 27; v. 273; p. 659.

Ores, Concentration of. E. Edser and S. Tucker. No. 1,337,548; Apr. 20; v. 273; p. 484.
Orthooxyazodyestuffs, Substantive. E. Anderwert and H. Fritzsche. No. 1,338,414; Apr. 27; v. 273; p. 717.
Orthopedic pad. A. B. Plummer. No. 1,336,979; Apr. 13; v. 273; p. 302.
Osteopathic table. J. V. McManis. No. 1,337,145; Apr. 13; v. 273; p. 333.
Oven, Baker's. G. H. Hodge and J. C. Robinson. No. 1,337,909; Apr. 20; v. 273; p. 553.
Oven, Baker's. W. G. Hopkins and F. J. Sullivan. No. 1,336,782; Apr. 13; v. 273; p. 264.
Oven, Electric. F. M. Sutton. No. 1,336,105; Apr. 6; v. 273; p. 76.
Oven, Removable. C. D. Wilson. No. 1,336,058; Apr. 6; v. 273; p. 67.
Oven rotary table. L. R. Lightle. No. 1,335,844; Apr. 6; v. 273; p. 26.
Overhead carrier. A. H. Neller. No. 1,336,370; Apr. 6; v. 273; p. 126.
Overhead switch. C. H. Desautels. No. 1,337,121; Apr. 13; v. 273; p. 329.
Overshot. G. C. Dakins and H. A. Harker. No. 1,336,684; Apr. 13; v. 273; p. 245.
Oxid, Manufacture of pure ferric. F. Hemingway. No. 1,337,402; Apr. 20; v. 273; p. 456.
Ozonator. M. W. Franklin. No. 1,337,062; Apr. 13; v. 273; p. 318.
Package and article carrier. C. Fulton. No. 1,335,888; Apr. 6; v. 273; p. 35.
Package-dispensing apparatus, Coin-controlled. W. P. Dun Lany. No. 1,336,514; Apr. 13; v. 273; p. 212.
Packing, Cord-. J. R. Gammeter. No. 1,336,030; Apr. 6; v. 273; p. 62.
Packing-form. A. B. Kellerman. No. 1,335,972; Apr. 6; v. 273; p. 51.
Packing, Metallic rod-. J. Badeker. No. 1,338,206; Apr. 27; v. 273; p. 678.
Packing, Rod-. T. Smith. No. 1,338,163; Apr. 27; v. 273; p. 670.
Pad: *See*—
Memorandum-pad. Rupture-pad.
Orthopedic pad.
Pad. A. J. Bean. No. 1,337,879; Apr. 20; v. 273; p. 547.
Padlock. P. Malaczynski. No. 1,336,309; Apr. 6; v. 273; p. 114.
Padlock, Permutation-. J. M. Walter. No. 1,337,674; Apr. 20; v. 273; p. 508.
Paints and other liquids, Machine for the mechanical application of. J. E. Mayo. No. 1,336,041; Apr. 6; v. 273; p. 64.
Pan; *See*—
Baking-pan. Bread-pan.
Pane-fastener. J. G. Parkins. No. 1,337,565; Apr. 20; v. 273; p. 487.
Paper and other material, Machine for reinforcing. E. H. Angier. No. 1,338,164; Apr. 27; v. 273; p. 670.
Paper, Apparatus for discharging static electricity from. H. Cohen. No. 1,338,071; Apr. 27; v. 273; p. 653.
Paper-board with paraffin, Method of and apparatus for coating. J. W. Low. No. 1,336,528; Apr. 13; v. 273; p. 215.
Paper box. E. de Lemos. No. 1,337,507; Apr. 20; v. 273; p. 476.
Paper cardboard and like tubes, Apparatus for winding. J. S. Holmes. No. 1,335,894; Apr. 6; v. 273; p. 36.
Paper-carriage. A. Pentecost and W. W. Fisher. No. 1,335,794; Apr. 6; v. 273; p. 17.
Paper-cup blanks, Dispenser for. D. F. Curtin. No. 1,337,392; Apr. 20; v. 273; p. 454.
Paper-cup-making machines, Packing. E. L. Bracy. No. 1,338,552; Apr. 27; v. 273; p. 743.
Paper-fastener. J. W. Grant. No. 1,337,598; Apr. 20; v. 273; p. 493.
Paper-fastening clasp. G. C. Moxon. No. 1,335,850; Apr. 6; v. 273; p. 27.
Paper, Gripping device for sheets of. E. P. Jennings. No. 1,337,231; Apr. 20; v. 273; p. 424.
Paper-holder. J. C. Wasser. No. 1,338,057; Apr. 27; v. 273; p. 650.
Paper holder and cutter, Wrapping-. D. C. Brooks. No. 1,337,588; Apr. 20; v. 273; p. 491.
Paper holder, Toilet-. W. S. Howard. No. 1,336,140; Apr. 6; v. 273; p. 83.
Paper-making. C. E. Pope. No. 1,338,094; Apr. 27; v. 273; p. 657.
Paper, Means for applying paste to. B. Selby. No. 1,337,729; Apr. 20; v. 273; p. 518.
Paper receptacle. C. W. Neski. No. 1,337,091; Apr. 13; v. 273; p. 324.
Paper-reinforcing machine. C. H. Howard. No. 1,337,702; Apr. 20; v. 273; p. 513.
Parcel-binder. A. L. Stansell. No. 1,336,168; Apr. 6; v. 273; p. 88.
Pawl-spring. P. Lux. No. 1,338,641; Apr. 27; v. 273; p. 759.
Pedal-operating mechanism. D. Antonelli. No. 1,337,685; Apr. 20; v. 273; p. 510.
Pedal-switch. S. F. Briggs and E. N. Jacobi. No. 1,336,066; Apr. 6; v. 273; p. 68.
Peeler, Vegetable-. E. J. Stanson. No. 1,337,414; Apr. 20; v. 273; p. 459.
Pen attachment. C. F. Clarke. No. 1,337,196; Apr. 20; v. 273; p. 417.
Pen, Fountain-. C. E. Hood. No. 1,338,629; Apr. 27; v. 273; p. 757.
Pen, Fountain-. C. A. Luck. No. 1,336,572; Apr. 13; v. 273; p. 223.
Pen, Stylographic fountain-. J. T. Andersen. No. 1,336,119; Apr. 6; v. 273; p. 79.
Pencil and case. G. A. Risk. No. 1,337,412; Apr. 20; v. 273; p. 458.
Penholder-support. R. Kelsey. No. 1,336,964; Apr. 13; v. 273; p. 299.
Percolator. I. M. Rose. No. 1,337,964; Apr. 20; v. 273; p. 563.
Perforating device. C. F. McBee. No. 1,338,457; Apr. 27; v. 273; p. 725.
Permutation hasp-lock. E. W. Flagg. No. 1,335,959; Apr. 6; v. 273; p. 48.
Permutation-switch. S. R. Seese. No. 1,338,090; Apr. 27; v. 273; p. 658.
Phonograph. A. E. Teal. No. 1,336,492; Apr. 13; v. 273; p. 208.
Phonograph driving mechanism. D. W. Allis. No. 1,335,809; Apr. 6; v. 273; p. 20.
Phonograph-motors, Mechanical starter for. J. T. Sibley. No. 1,337,280; Apr. 20; v. 273; p. 433.
Phonograph-record holder. W. H. Schlingloff. No. 1,336,382; Apr. 6; v. 273; p. 128.
Phonograph-starting device. C. H. Gibbons and J. P. Cleal. No. 1,338,365; Apr. 27; v. 273; p. 708.
Phonograph-stop. F. A. Nolan. No. 1,335,911; Apr. 6; v. 273; p. 39.
Photograph-album, Leafless. P. H. Kraetsch. No. 1,336,438; Apr. 13; v. 273; p. 198.
Photograph-printing apparatus. H. Shapiro. No. 1,335,860; Apr. 6; v. 273; p. 29.
Photographic screens for half-tone work, Producing. H. A. Corbett. No. 1,338,492; Apr. 27; v. 273; p. 732.
Piano. C. Meblin. No. 1,335,791; Apr. 6; v. 273; p. 17.
Picker: *See*—
Fruit-picker. Stone-picker.
Picture apparatus, Moving-. D. Boixeda. No. 1,336,996; Apr. 13; v. 273; p. 306.
Picture effects upon enameled metal surfaces, Permanently producing. R. Sandby. No. 1,335,755; Apr. 6; v. 273; p. 10.
Picture films, Motion-. W. V. D. Kelley. No. 1,337,775; Apr. 20; v. 273; p. 527.
Picture-frame, Adjustable. J. F. Smith. No. 1,338,258; Apr. 27; v. 273; p. 688.
Picture-frame, Easel. R. Haley. No. 1,338,441; Apr. 27; v. 273; p. 722.
Picture-frame holder and hanger. B. K. Loyland. No. 1,338,384; Apr. 27; v. 273; p. 712.
Picture machine, Framing device for motion-. W. Parkes. No. 1,335,749; Apr. 6; v. 273; p. 9.
Picture machine, Motion-. N. C. Darby. No. 1,336,775; Apr. 13; v. 273; p. 262.
Picture-machine stand, Moving-. N. Power. No. 1,337,267; Apr. 20; v. 273; p. 431.
Picture shutter, Moving-. J. H. Lehman. No. 1,335,744; Apr. 6; v. 273; p. 8.
Pictures, Method of and apparatus for identifying. T. C. Willson. No. 1,337,423; Apr. 20; v. 273; p. 460.
Pictures, Rewinding means for motion-. W. F. Brinton. No. 1,335,817; Apr. 6; v. 273; p. 21.
Pin; *See*—
Hairpin.
Pin-puller. W. A. Smith. No. 1,337,670; Apr. 20; v. 273; p. 507.
Pipe; *See*—
Tobacco-pipe.
Pipe and hose coupling. J. Beach. No. 1,337,427; Apr. 20; v. 273; p. 461.
Pipe-coil. E. A. Russell. No. 1,335,799; Apr. 6; v. 273; p. 18.
Pipe-wrench. J. D. Nixon. No. 1,338,461; Apr. 27; v. 273; p. 726.
Pipe-wrench. W. Zadorozny. No. 1,336,710; Apr. 13; v. 273; p. 250.
Pistol. G. S. Lewis. No. 1,338,381; Apr. 27; v. 273; p. 711.
Piston. J. Flammang. No. 1,336,690; Apr. 13; v. 273; p. 247.
Piston. J. Flammang. No. 1,336,691; Apr. 13; v. 273; p. 247.
Piston, Engine-. A. P. Brush. No. 1,338,169; Apr. 27; v. 273; p. 671.
Piston-head. F. Ellers. No. 1,337,982; Apr. 20; v. 273; p. 567.
Piston-ring. O. W. Anderson. No. 1,336,670; Apr. 13; v. 273; p. 242.
Piston-ring. S. D. Hartog. No. 1,337,651; Apr. 20; v. 273; p. 503.
Piston-ring adjuster. R. Hammerly. No. 1,336,222; Apr. 6; v. 273; p. 98.
Piston-ring-hammering machine. W. A. Oubridge. No. 1,336,153; Apr. 6; v. 273; p. 85.
Piston-ring remover and inserter. C. O. Hammontree and V. A. Nelson. No. 1,337,600; Apr. 20; v. 273; p. 494.
Piston-rings, Making. H. S. Frank. No. 1,337,551; Apr. 20; v. 273; p. 484.
Pistons, Making. J. Flammang. No. 1,336,689; Apr. 13; v. 273; p. 246.
Pivot. B. Liebowitz. No. 1,335,745; Apr. 6; v. 273; p. 8.

Planer, Road-. W. S. Foster. No. 1,336,215; Apr. 6; v. 273; p. 97.
Planing and finishing machine, Road. O. E. Moats. No. 1,335,906; Apr. 6; v. 273; p. 38.
Planing-machine. O. L. Stadig. No. 1,337,286; Apr. 20; v. 273; p. 434.
Planing-machine. Portable. F. L. Forward. No. 1,337,350; Apr. 20; v. 273; p. 447.
Plant-stand. D. F. Loudon. No. 1,336,307; Apr. 6; v. 273; p. 114.
Plant-support. J. J. Stanley. No. 1,337,803; Apr. 20; v. 273; p. 532.
Plant-supporting clip. W. F. Buschardt. No. 1,338,612; Apr. 27; v. 273; p. 754.
Planter. W. W. Barrett. No. 1,336,124; Apr. 6; v. 273; p. 80.
Plaster-block machine. E. H. Pipe. No. 1,337,618; Apr. 20; v. 273; p. 497.
Plastic material in containers, Means for indicating level of. P. R. Weitzel. No. 1,337,029; Apr. 13; v. 273; p. 312.
Plastic material in containers, Means for indicating level of. P. R. Weitzel. No. 1,337,030; Apr. 13; v. 273; p. 312.
Plastic mold. E. R. Jester. No. 1,337,074; Apr. 13; v. 273; p. 320.
Plate, Ceiling and floor. A. C. Gaynor. No. 1,335,730; Apr. 6; v. 273; p. 5.
Plate, Handhole-. J. A. Woods. No. 1,336,012; Apr. 6; v. 273; p. 58.
Plate-lifting device. V. C. Graves. No. 1,337,450; Apr. 20; v. 273; p. 465.
Plate-puller. S. R. Gilmore. No. 1,336,291; Apr. 6; v. 273; p. 111.
Plates, Machine for hardening. C. C. Olson. No. 1,337,465; Apr. 20; v. 273; p. 468.
Platform and mud-guard. A. R. Sandt, C. F. Walz, and M. L. Stahl. No. 1,337,275; Apr. 20; v. 273; p. 432.
Platform, Movable. A. H. Levene. No. 1,336,973; Apr. 13; v. 273; p. 301.
Pliers. E. A. Ironside. No. 1,336,464; Apr. 13; v. 273; p. 203.
Pliers, wrench, and the like. A. C. Allan. No. 1,337,986; Apr. 27; v. 273; p. 637.
Plow. F. E. Davis and D. A. Biebinger. No. 1,338,559; Apr. 27; v. 273; p. 744.
Plow. A. O. White. No. 1,337,868; Apr. 20; v. 273; p. 545.
Plow attachment. H. C. Wermager. No. 1,337,421; Apr. 20; v. 273; p. 460.
Plow, Motor-. W. T. Bell, W. H. Watson, and L. W. Jones. No. 1,338,550; Apr. 27; v. 273; p. 742.
Plow, Motor-. M. L. Letroteur. No. 1,337,929; Apr. 20; v. 273; p. 557.
Plow, Motor-. T. C. Santler. No. 1,338,195; Apr. 27; v. 273; p. 676.
Plow, Sidewalk-. W. G. Jones. No. 1,337,076; Apr. 13; v. 273; p. 321.
Plows, Draft-gear for gang-. S. Wilson. No. 1,337,870; Apr. 20; v. 273; p. 545.
Plowing and seeding apparatus. D. L. Healy. No. 1,336,902; Apr. 13; v. 273; p. 288.
Plow-wheel adjuster. C. L. Baker. No. 1,336,550; Apr. 13; v. 273; p. 219.
Plug, Attachment-. J. J. Kenney. No. 1,338,226; Apr. 27; v. 273; p. 682.
Plug and socket, Current-regulating. A. Papini. No. 1,336,919; Apr. 13; v. 273; p. 291.
Plug, Electric. E. D. Whelpley and W. E. Winters. No. 1,337,422; Apr. 20; v. 273; p. 460.
Plumb-bob. P. T. Fagrie. No. 1,336,289; Apr. 6; v. 273; p. 110.
Plywood, Manufacturing. O. L. Sponsler, M. E. Dunlap, and S. B. Henning. No. 1,336,262; Apr. 6; v. 273; p. 105.
Pocket-knife. O. L. Hemming. No. 1,337,769; Apr. 20; v. 273; p. 526.
Pocket, Overalls-. D. S. Carter. No. 1,336,614; Apr. 13; v. 273; p. 232.
Portable elevator. G. A. Emerson. No. 1,336,949; Apr. 13; v. 273; p. 296.
Porthole-screen. U. G. Lee. No. 1,336,038; Apr. 6; v. 273; p. 63.
Post: *See*—
Fencepost.
Indicator-valve post.
Signal-post.
Position or the movement of a body or for controlling the auxiliary devices dependent on said position or movement, Apparatus for determining the. C. Schoute, F. A. van Heyst, and N. E. G. Meyer. No. 1,336,399; Apr. 6; v. 273; p. 131.
Posthole-digger. W. S. Cronowert. No. 1,335,878; Apr. 6; v. 273; p. 33.
Posthole-digger, wire-tightener, and crowbar, Combined. G. Evans. No. 1,336,027; Apr. 6; v. 273; p. 61.
Potato-peeler. W. Lefteruk. No. 1,336,526; Apr. 13; v. 273; p. 214.
Potatoes for planting, Machine for cutting up. J. L. Schroeder. No. 1,337,968; Apr. 20; v. 273; p. 564.
Pottery and like articles, Casting. B. J. Allen and R. Y. Ames. No. 1,336,180; Apr. 6; v. 273; p. 90.
Powder and making same, Propellent. C. I. B. Henning. No. 1,336,463; Apr. 13; v. 273; p. 203.
Power by internal combustion, Generating. P. Ostenberg. No. 1,337,323; Apr. 20; v. 273; p. 442.
Power-generator. M. J. Trumble. No. 1,337,533; Apr. 20; v. 273; p. 481.
Power-generating mechanism. L. W. Beaven. No. 1,336,188; Apr. 6; v. 273; p. 92.
Power-hammer die. M. A. Jennings. No. 1,337,474; Apr. 20; v. 273; p. 470.
Powder-handling machine. E. H. Pipe. No. 1,337,619; Apr. 20; v. 273; p. 497.
Power-shovel. F. R. Sills. No. 1,337,332; Apr. 20; v. 273; p. 443.
Power transmission. G. L. Jacques. No. 1,336,747; Apr. 13; v. 273; p. 257.
Power-transmission apparatus. W. Zeman. No. 1,337,873; Apr. 20; v. 273; p. 546.
Power-transmission mechanism. S. S. Hembree and A. L. Johnson. No. 1,337,908; Apr. 20; v. 273; p. 552.
Power-transmitting device, Variable-speed. A. H. Jessen. No. 1,336,749; Apr. 13; v. 273; p. 258.
Pouring joints, Device for. T. J. O'Connell. No. 1,337,256; Apr. 20; v. 273; p. 429.
Preheater. R. W. Wiederwax. No. 1,338,472; Apr. 27; v. 273; p. 728.
Preheater for use in the chemical industry, especially the petroleum-tar industry. L. Steinschneider. No. 1,337,287; Apr. 20; v. 273; p. 435.
Press: *See*—
Block-press.
Bosom-press.
Die-press.
Drawing-press.
Printing-press.
Shoe-press.
Presses, Air-blast pressure attachment for. W. Cottrell. No. 1,337,000; Apr. 13; v. 273; p. 306.
Pressing apparatus. J. J. Berrigan. No. 1,336,341; Apr. 6; v. 273; p. 120.
Pressing-machine-control mechanism. H. C. Hoting. No. 1,335,835; Apr. 6; v. 273; p. 25.
Pressure gage, Differential-. W. J. Crowell, Jr. No. 1,336,511; Apr. 13; v. 273; p. 211.
Pressure-generating system. J. O. Carrey. No. 1,337,751; Apr. 20; v. 273; p. 523.
Pressure-indicator. J. A. Green. No. 1,338,436; Apr. 27; v. 273; p. 721.
Pressure-regulator. G. W. Mann. No. 1,337,248; Apr. 20; v. 273; p. 427.
Pressure-regulator. J. McNamara. No. 1,335,903; Apr. 6; v. 273; p. 87.
Primary battery. C. A. Xardell. No. 1,338,412; Apr. 27; v. 273; p. 717.
Priming device. W. Heide. No. 1,337,226; Apr. 20; v. 273; p. 423.
Priming device. J. J. Hogan. No. 1,337,772; Apr. 20; v. 273; p. 527.
Printing apparatus. D. F. Fesler and H. R. Hedman. No. 1,338,645; Apr. 27; v. 273; p. 760.
Printing-couples, Adjustable bearer for. H. A. W. Wood. No. 1,338,347; Apr. 27; v. 273; p. 705.
Printing device. L. A. Stanley. No. 1,336,989; Apr. 13; v. 273; p. 304.
Printing-machine. J. Heberling. No. 1,338,366; Apr. 27; v. 273; p. 709.
Printing-machine. W. M. Bacon. No. 1,338,165; Apr. 27; v. 273; p. 671.
Printing mechanism. G. M. Breckenridge. No. 1,336,988; Apr. 13; v. 273; p. 303.
Printing-press. J. A. Allen. No. 1,337,186; Apr. 20; v. 273; p. 416.
Printing-press. W. M. Kelly. No. 1,336,841; Apr. 13; v. 272; p. 276.
Printing-presses, Device for preventing offset in. A. B. Beck. No. 1,336,995; Apr. 13; v. 273; p. 305.
Printing-presses, Plate-clamping device for. H. F. Bechman. No. 1,336,721; Apr. 13; v. 273; p. 253.
Printing-presses, Roller-adjustment for. S. M. Weatherly and H. J. Stach. No. 1,337,574; Apr. 20; v. 273; p. 488.
Printer's rack. T. Severson. No. 1,338,101; Apr. 27; v. 273; p. 659.
Projector. E. W. Nelson. No. 1,336,479; Apr. 13; v. 273; p. 206.
Propeller, Variable-pitch. R. M. Howard. No. 1,337,133; Apr. 13; v. 273; p. 331.
Propellers, Arrangement for driving ships'. C. L. H. Wittmaack. No. 1,336,770; Apr. 13; v. 273; p. 261.
Propellers, Machine for making aeroplane-. J. L. Simmons. No. 1,336,659; Apr. 13; v. 273; p. 240.
Propulsion means. D. A. Trotta. No. 1,338,115; Apr. 27; v. 273; p. 661.
Pruning implement. N. E. Dragus. No. 1,338,216; Apr. 27; v. 273; p. 680.
Puller: *See*—
Cotter-pin puller.
Joint-puller.
Pin-puller.
Plate-puller.
Pulley and like element. F. H. Johnston and J. C. Christensen. No. 1,337,135; Apr. 13; v. 273; p. 331.
Pulley and like element. F. H. Johnston and J. C. Christensen. No. 1,337,136; Apr. 13; v. 273; p. 332.
Pulley attachment device. J. W. Marshall. No. 1,337,249; Apr. 20; v. 273; p. 427.
Pulleys, Bearing for loose. C. F. Pearson. No. 1,338,091; Apr. 27; v. 273; p. 657.
Pulverizing apparatus. R. H. Challacombe. No. 1,338,421; Apr. 27; v. 273; p. 718.
Pump. J. C. Briggs. No. 1,338,118; Apr. 27; v. 273; p. 662.
Pump. D. A. Carden. No. 1,337,180; Apr. 13; v. 273; p. 340.

Pump. C. R. Edwards No. 1,337,057; Apr. 13; v. 273; p. 317.
Pump. V. H. Francis. No. 1,337,834; Apr. 20; v. 273; p. 538.
Pump, Air-. A. Swensen. No. 1,336,896; Apr. 6; v. 273; p. 131.
Pump and circuit therefor, Electromagnetic fuel-. C. C. Bradbury. No. 1,337,388; Apr. 20; v. 273; p. 454.
Pump and motor, Combined rotary. C. Townsend. No. 1,338,265; Apr. 27; v. 273; p. 689.
Pump attachment for automobiles. R. A. Peatman. No. 1,336,920; Apr. 13; v. 273; p. 291.
Pump, Centrifugal. H. Julinsen. No. 1,337,916; Apr. 20; v. 273; p. 554.
Pump, Centrifugal. C. V. Kerr. No. 1,337,659; Apr. 20; v. 273; p. 505.
Pump-jack. A. S. D. French. No. 1,335,960; Apr. 6; v. 273; p. 49.
Pump lubricator, Air-brake-. E. McCoy. No. 1,338,385; Apr. 27; v. 273; p. 712.
Pump, Oil-. S. C. Barnes. No. 1,337,581; Apr. 20; v. 273; p. 490.
Pump-support. A. G. Girard. No. 1,338,621; Apr. 27; v. 273; p. 755.
Pump, Tire-inflating. H. K. Austin. No. 1,335,718; Apr. 6; v. 273; p. 3.
Pump, Water-. E. C. Newcomb. No. 1,336,258; Apr. 6; v. 273; p. 105.
Pumps, Bearing-protector for deep-well. R. Schorr. No. 1,336,540; Apr. 13; v. 273; p. 218.
Pumps, Gland and packing of centrifugal sand-. G. Lumley. No. 1,336,308; Apr. 6; v. 273; p. 114.
Pumps, Motor-mounting for bellows-. L. B. Doman. No. 1,337,645; Apr. 20; v. 273; p. 502.
Pumps, Plunger for deep-well. W. J. Coulson. No. 1,337,593; Apr. 20; v. 273; p. 492.
Pumps, Water-valve gear for. R. C. Hawkins. No. 1,338,443; Apr. 27; v. 273; p. 722.
Pumping system, Fuel-. H. O. Baker. No. 1,336,717; Apr. 13; v. 273; p. 252.
Punch. L. A. Lundmark. No. 1,336,529; Apr. 13; v. 273; p. 215.
Punch and die, Piercing-. E. Ibach. No. 1,338,082; Apr. 27; v. 273; p. 655.
Pushing and pulling implement. O. E. Mousa. No. 1,337,719; Apr. 20; v. 273; p. 517.
Puzzle. O. J. Shepherd. No. 1,336,541; Apr. 13; v. 273; p. 218.
Quick-setting mechanism. G. S. Hull. No. 1,336,839; Apr. 13; v. 273; p. 275.
Rack: *See*—
Book-rack.
Card-rack.
Printer's rack.
Stamp and pen rack.
Rack and ironing-board, Combination. D. W. Robbins. No. 1,335,857; Apr. 6; v. 273; p. 28.
Rack for hanging articles. O. H. Frank. No. 1,337,399; Apr. 20; v. 273; p. 456.
Radiator. S. T. Canada. No. 1,336,816; Apr. 13; v. 273; p. 271.
Radiator. T. N. Coffelder. No. 1,336,999; Apr. 13; v. 273; p. 305.
Radiator. J. B. Gabrielson. No. 1,335,890; Apr. 6; v. 273; p. 35.
Radiator. G. J. Thomas. No. 1,337,415; Apr. 20; v. 273; p. 459.
Radiator. P. J. Tucker. No. 1,337,337; Apr. 20; v. 273; p. 444.
Radiator. E. O. Weeks. No. 1,337,576; Apr. 20; v. 273; p. 489.
Radiator, Condensing-. D. Benjamin. No. 1,335,812; Apr. 6; v. 273; p. 20.
Radiator, Motor-vehicle. P. F. Spery. No. 1,335,997; Apr. 6; v. 273; p. 56.
Radiator-protector. J. F. Dudgeon. No. 1,338,614; Apr. 27; v. 273; p. 754.
Radiator-shutter. C. A. Pipenhagen. No. 1,336,978; Apr. 13; v. 273; p. 302.
Radiator unit. H. C. Harrison. No. 1,336,136; Apr. 6; v. 273; p. 82.
Radiators, Air-valve for steam-. W. J. Cook. No. 1,337,045; Apr. 13; v. 273; p. 315.
Radiators, Device for supplying water to automobile-. W. Welshausen. No. 1,336,769; Apr. 13; v. 273; p. 261.
Radiosignaling apparatus. R. A. Weagant. No. 1,336,398; Apr. 6; v. 273; p. 131.
Radiotelegraphy. L. F. Fuller. No. 1,337,833; Apr. 13; v. 273; p. 274.
Radius-rod truss. W. F. Hudson. No. 1,336,353; Apr. 6; v. 273; p. 123.
Raft, Life-. J. F. Twigg. No. 1,336,872; Apr. 13; v. 273; p. 281.
Rail-anchor. W. M. Mitchell. No. 1,338,148; Apr. 27; v. 273; p. 667.
Rail-anchor. W. M. Mitchell. No. 1,338,149; Apr. 27; v. 273; p. 667.
Rail-bender. E. F. Bennett. No. 1,337,587; Apr. 20; v. 273; p. 491.
Rail-bolt. M. J. Madison. No. 1,337,365; Apr. 20; v. 273; p. 449.
Rail-bond. W. P Bovard. No. 1,336,502; Apr. 13; v. 273; p. 210.
Rail-bond. J. R. Brown. No. 1,336,940; Apr. 13; v. 273; p. 295.
Rail-bond. W. C. Starkey. No. 1,336,932; Apr. 13; v. 273; p. 293.
Rail-bonds, Applying. W. C. Starkey. No. 1,336,931; Apr. 13; v. 273; p. 293.
Rail-chair. W. D. Scott. No. 1,336,099; Apr. 6; v. 273; p. 75.
Rail-clamp. C. W. Hill. No. 1,338,450; Apr. 27; v. 273; p. 724.
Rail-fastener. J. T. Wade. No. 1,337,862; Apr. 20; v. 273; p. 544.
Rail, Guard-. A. M. Cornell. No. 1,337,544; Apr. 20; v. 273; p. 483.
Rail-joint. G. W. Probst. No. 1,335,751; Apr. 6; v. 273; p. 9.
Rail-joint mechanism. M. Noir. No. 1,336,483; Apr. 13; v. 273; p. 206.
Rail plate and fastener. J. G. Hill. No. 1,338,016; Apr. 27; v. 273; p. 642.
Rail-seat holder. V. E. Randall. No. 1,337,621; Apr. 20; v. 273; p. 498.
Rail-torpedo safety and positive lock. H. B. Spencer. No. 1,336,792; Apr. 13; v. 273; p. 266.
Railway construction. A. W. Rayne. No. 1,338,590; Apr. 27; v. 273; p. 750.
Railway-crossing. R. Rothwell. No. 1,338,253; Apr. 27; v. 273; p. 687.
Railway-crossing signal. A. Mennen. No. 1,336,913; Apr. 13; v. 273; p. 289.
Railway-crossing, Silent. G. C. and H. W. Melrose. No. 1,337,527; Apr. 20; v. 273; p. 480.
Railway-joint. M. S. Murar and L. F. Hamrock. No. 1,336,915; Apr. 13; v. 273; p. 290.
Railway-rail fastening. S. A. Swanson. No. 1,337,851; Apr. 20; v. 273; p. 541.
Railway safety device. A. H. Simms. No. 1,336,986; Apr. 13; v. 273; p. 303.
Railway-signal. O. Jackson. No. 1,338,632; Apr. 27; v. 273; p. 758.
Railway-signal. W. I. Smith. No. 1,337,283; Apr. 20; v. 273; p. 434.
Railway-signal system. H. Margotta. No. 1,337,935; Apr. 20; v. 273; p. 558.
Railway signal system. M. W. Reedy. No. 1,335,919; Apr. 6; v. 273; p. 41.
Railway-spike. F. R. Pipkin. No. 1,338,154; Apr. 27; v. 273; p. 668.
Railway-switch. J. Wilczynski. No. 1,336,114; Apr. 6; v. 273; p. 78.
Railway-switch stand. C. M. Carr. No. 1,336,195; Apr. 6; v. 273; p. 93.
Railway-tie plug. A. Heim. No. 1,338,444; Apr. 27; v. 273; p. 723.
Railway, Vacuum-. R. B. Davy. No. 1,336,732; Apr. 13; v. 273; p. 255.
Railways, Catenary suspension system for electric. J. R. Brown and G. H. Bolus. No. 1,336,503; Apr. 13; v. 273; p. 210.
Rake: *See*—
Dandelion-rake.
Self-cleaning rake.
Range-firepot. J. Jungers. No. 1,337,604; Apr. 20; v. 273; p. 494.
Ranges, Convertible gas-flue for combination gas and coal. E. C. Beers. No. 1,337,112; Apr. 113; v. 273; p. 327.
Ranges, Kerosene-burner for. J. W. Starr. No. 1,336,103; Apr. 6; v. 273; p. 76.
Ratchet-wrench. G. A. Smith. No. 1,338,257; Apr. 27; v. 273; p. 688.
Ratio-meter. W. J. Crowell, Jr. No. 1,336,512; Apr. 13; v. 273; p. 212.
Razor-blade protector, Safety-. W. A. Sprinkell. No. 1,335,863; Apr. 6; v. 273; p. 30.
Razor, Safety-. R. E. Brown. No. 1,337,435; Apr. 20; v. 273; p. 462.
Razor, Safety-. B. La Rock. No. 1,336,969; Apr. 13; v. 273; p. 300.
Razor, Safety-. A. C. Roebuck. No. 1,336,923; Apr. 13; v. 273; p. 292.
Razor, Safety-. J. K. Toles. No. 1,337,166; Apr. 13; v. 273; p. 337.
Razors, Rotary cutting device for. S. P. Jones. No. 1,338,305; Apr. 27; v. 273; p. 697.
Razors, Water-carrying attachment for. J. F. Kaylor. No. 1,335,840; Apr. 6; v. 273; p. 25.
Rebound-controller. H. G. Craig. No. 1,338,556; Apr. 27; v. 273; p. 744.
Receptacle filling and measuring machine. E. J. Falkiner. No. 1,338,429; Apr. 27; v. 273; p. 720.
Receptacle-stopper. R. G. Allen. No. 1,337,182; Apr. 20; v. 273; p. 415.
Rectifier and means for improving the operation of the same, Mechanical. O. S. Jennings. No. 1,336,564; Apr. 13; v. 273; p. 222.
Recorder: *See*—
Water stage and discharge recorder.
Recording device. G. H., G. A., and T. E. Froggatt. No. 1,338,647; Apr. 27; v. 273; p. 760.
Reducing and refining apparatus. A. L. Bausman. No. 1,337,583; Apr. 20; v. 273; p. 490.
Reel: *See*—
Fishline-reel.
Reflectors, mirrors, and other metal articles having deflecting-surfaces, Manufacture of metal. T. Hancock. No. 1,336,224; Apr. 6; v. 273; p. 98.
Refrigerating. Process of and apparatus for. F. W. Wolf. No. 1,337,175; Apr. 13; v. 273; p. 339.

Refrigerator. H. M. Tarras. No. 1,337,625; Apr. 20; v. 273; p. 498.
Reel construction and handling webs. W. I. Tuttle. No. 1,337,418; Apr. 20; v. 273; p. 459.
Register: *See*—
Autographic register. Coin-controlling register.
Cash-register.
Register. G. W. Druliner. No. 1,336,210; Apr. 6; v. 273; p. 96.
Registering-hook. H. Sauter. No. 1,336,487; Apr. 13; v. 273; p. 207.
Regulator: *See*—
Arc-current regulator. Pressure-regulator.
Electric-generator regulator. Tank-regulator.
Temperature-regulator.
Regulator. W. Hodgson. No. 1,338,080; Apr. 27; v. 273; p. 655.
Regulator. W. Hodgson. No. 1,338,081; Apr. 27; v. 273; p. 655.
Relay. J. Erickson. (Reissue.) No. 14,834; Apr. 6; v. 273; p. 133.
Relay system. H. O. Rugh. No. 1,337,797; Apr. 20; v. 273; p. 531.
Reservoir, Oil-. H. M. Boe. No. 1,336,983; Apr. 13; v. 273; p. 302.
Resilient base. T. B. Cook and L. Foster. No. 1,338,355; Apr. 27; v. 273; p. 744.
Resilient wheel. N. Ratchford. No. 1,335,152; Apr. 6; v. 273; p. 9.
Resilient wheel. W. A. Witten. No. 1,338,061; Apr. 27; v. 273; p. 651.
Resilient wheel. J. M. Woods. No. 1,336,060; Apr. 6; v. 273; p. 67.
Respirator, Artificial. C. L. Heald. No. 1,337,225; Apr. 20; v. 273; p. 423.
Reversing mechanism. J. V. Petrelli. No. 1,337,531; Apr. 20; v. 273; p. 481.
Reversing mechanism. J. B. Wendall. No. 1,338,086; Apr. 27; v. 273; p. 656.
Revoluble seat. C. M. Hansen. No. 1,337,221; Apr. 20; v. 273; p. 422.
Revolving chair. O. Fisher. No. 1,337,059; Apr. 13; v. 273; p. 318.
Rheostat. H. L. Dodge. No. 1,337,826; Apr. 20; v. 273; p. 536.
Rheostat. A. Papini. No. 1,336,918; Apr. 13; v. 273; p. 290.
Rifle-sight. G. S. Lewis. No. 1,338,183; Apr. 27; v. 273; p. 674.
Rifles and machine-guns, Cartridge-magazine for. M. G. Farquhar and A. H. Hill. No. 1,337,893; Apr. 20; v. 273; p. 550.
Rim, Demountable. B. A. Stocking. No. 1,338,110; Apr. 27; v. 273; p. 660.
Rim-holding stand. P. Cannon. No. 1,337,821; Apr. 20; v. 273; p. 535.
Rim of the cross-cut type, Demountable. O. W. Mott. No. 1,338,390; Apr. 27; v. 273; p. 713.
Rim, Separable. O. Abbadini. No. 1,335,778; Apr. 6; v. 273; p. 15.
Rims, Demountable. A. E. McPherson. No. 1,338,145; Apr. 27; v. 273; p. 667.
Rims, Fastening means for demountable. R. Tamburello. No. 1,336,934; Apr. 13; v. 273; p. 294.
Ring: *See*—
Key-ring. Piston-ring.
Rivet-setting and similar operations, Apparatus for. S. Lake. No. 1,337,457; Apr. 20; v. 273; p. 466.
Road-indicator. B. A. Wilmot. No. 1,336,268; Apr. 6; v. 273; p. 106.
Road-machine. J. H. McLeod. No. 1,337,241; Apr. 20; v. 273; p. 426.
Road-maker, excavator, and grader. V. Schmidt. No. 1,336,658; Apr. 13; v. 273; p. 240.
Road recorder and indicator. O. E. Joseph. No. 1,336,907; Apr. 13; v. 273; p. 289.
Roasting and boiling device. J. H. Doak. No. 1,337,122; Apr. 13; v. 273; p. 329.
Rock-drill seating and controlling means. H. I. Stage. No. 1,336,930; Apr. 13; v. 273; p. 293.
Rod: *See*—
Fishing-rod. Steering reach-rod.
Rod-cutter. J. E. Schmidt and C. E. McArthur. No. 1,336,589; Apr. 13; v. 273; p. 227.
Rodent-trap, Automatic. N. Drag. No. 1,335,882; Apr. 6; v. 273; p. 33.
Roll-driving connection. J. Withers and H. G. O'Brien. No. 1,336,177; Apr. 6; v. 273; p. 90.
Roll-traverse. J. A. Kester. No. 1,336,703; Apr. 13; v. 273; p. 249.
Rolls, Method and means for shaping. C. T. Henderson. No. 1,338,178; Apr. 27; v. 273; p. 673.
Rolling balls and other objects of rotation. F. E. Canda. No. 1,337,640; Apr. 20; v. 273; p. 501.
Rolling-mill shearing and piling apparatus. H. G. O'Brien. No. 1,337,464; Apr. 20; v. 273; p. 468.
Roof. C. A. Statler. No. 1,338,262; Apr. 27; v. 273; p. 689.
Roof for buildings. R. Wright. No. 1,336,118; Apr. 6; v. 273; p. 79.
Roof-ventilator joint. C. C. Shipp. No. 1,336,590; Apr. 13; v. 273; p. 227.
Roofing. T. M. Scarff. No. 1,335,756; Apr. 6; v. 273; p. 10.
Roofing-grit, Method and apparatus for treating. A. B. Cooke. No. 1,337,822; Apr. 20; v. 273; p. 536.
Roofing, Making prepared. O. A. Heppes and C. E. Rahr. No. 1,338,624; Apr. 27; v. 273; p. 756.
Rope-clamp. S. Nilson. No. 1,336,482; Apr. 13; v. 273; p. 206.
Rotary engine. A. J. Boiling. No. 1,336,997; Apr. 13; v. 273; p. 305.
Rotary engine. F. E. Glaze. No. 1,337,218; Apr. 20; v. 273; p. 421.
Rotary engine. C. Q. Jefferies. No. 1,338,304; Apr. 27; v. 273; p. 697.
Round-top work. J. Ruoff. No. 1,337,485; Apr. 20; v. 273; p. 472.
Rubber-dam-clamp appliance. J. W. Ivory. No. 1,336,746; Apr. 13; v. 273; p. 257.
Rubber, Method and apparatus for treating. E. A. Wullenweber. No. 1,337,536; Apr. 20; v. 273; p. 482.
Rubber, Reclaiming. D. F. Twiss. No. 1,335,926; Apr. 6; v. 273; p. 42.
Rule, &c., Extensible. G. L. Finstrom. No. 1,338,176; Apr. 27; v. 273; p. 673.
Rupture-pad. T. Pachali, Sr. No. 1,337,790; Apr. 20; v. 273; p. 530.
Rust-preventing composition. C. Schmid. No. 1,335,757; Apr. 6; v. 273; p. 10.
Sack-holder. E. Erickson. No. 1,338,126; Apr. 27; v. 273; p. 663.
Safe-door trap. A. K. Winter. (Reissue.) No. 14,840; Apr. 13; v. 273; p. 341.
Safe-lock. J. Boryk. No. 1,337,386; Apr. 20; v. 273; p. 453.
Safe-lock. W. J. B. Harris. No. 1,337,554; Apr. 20; v. 273; p. 485.
Safe or cabinet, Heat-resisting. R. H. Dick and C. F. Wolters. No. 1,336,347; Apr. 6; v. 273; p. 121.
Safety-lock. J. B. Malys. No. 1,337,085; Apr. 13; v. 273; p. 322.
Saggars, Method of and means for producing. F. J. Wolff. No. 1,337,871; Apr. 20; v. 273; p. 545.
Sailboat. J. H. Hart. No. 1,336,226; Apr. 6; v. 273; p. 98.
Sal ammoniac, Metamorphous. C. Pfanstiehl. No. 1,337,665; Apr. 20; v. 273; p. 506.
Salt blocks, Press for. H. D. Oxley. No. 1,336,579; Apr. 13; v. 273; p. 225.
Salts of the N-methyl-hexamethenetetramin. R. Tschunke. No. 1,336,709; Apr. 13; v. 273; p. 250.
Salts, Recovery of potassium. P. C. McIlhiney. No. 1,338,234; Apr. 27; v. 273; p. 684.
Salts, Recovery of potassium. P. C. McIlhiney. No. 1,338,235; Apr. 27; v. 273; p. 684.
Sample-taking device. W. E. Rembert. No. 1,336,537; Apr. 13; v. 273; p. 217.
Sampling device. H. E. McCoy and F. J. Tarr. No. 1,336,250; Apr. 6; v. 273; p. 103.
Sampling-jar. C. E. Bauermeister. No. 1,337,034; Apr. 13; v. 273; p. 313.
Sand-drier. C. W. Hall. No. 1,337,220; Apr. 20; v. 273; p. 422.
Sand, Method of and apparatus for collecting and delivering. J. R. Sensibar. No. 1,337,279; Apr. 20; v. 273; p. 433.
Sand-mixing machine. R. C. Stokes. No. 1,337,373; Apr. 20; v. 273; p. 451.
Sash attachment, Window-. G. H. Gustafson. No. 1,336,430; Apr. 13; v. 273; p. 197.
Sash fastener, Window-. S. R. Parkes. No. 1,338,250; Apr. 27; v. 273; p. 687.
Sash-lock. E. Larson. No. 1,336,242; Apr. 6; v. 273; p. 102.
Sash-operating mechanism. A. McAllister. No. 1,337,461; Apr. 20; v. 273; p. 467.
Sash stop, Window-. T. Wertz and F. W. Springmeyer. No. 1,337,495; Apr. 20; v. 273; p. 474.
Sashes, Means for automatically securing window-. C. D. Groves, T. Heath, E. H. Jarvis, and H. W. Bradbury. No. 1,336,696; Apr. 13; v. 273; p. 248.
Saw-all. R. S. Clarke. No. 1,338,211; Apr. 27; v. 273; p. 679.
Saw-blade. C. H. Driver. No. 1,336,209; Apr. 6; v. 273; p. 95.
Saw-cleaning and oiling device. J. Raines. No. 1,338,157; Apr. 27; v. 273; p. 669.
Saw, Detachable-tooth. D. W. Jenkins. No. 1,337,016; Apr. 13; v. 273; p. 309.
Saw-grinding machines, Device for setting the shafts of. W. Toups. No. 1,337,293; Apr. 20; v. 273; p. 436.
Saw-gummer. J. Miles. No. 1,336,042; Apr. 6; v. 273; p. 64.
Saw-setting and sharpening machine, Combined. J. Colley. No. 1,338,173; Apr. 27; v. 273; p. 672.
Saws, Square and miter attachment for. M. Mendel. No. 1,338,188; Apr. 27; v. 273; p. 675.
Sawing apparatus, Tree-. V. N. Dmitriff. No. 1,337,395; Apr. 20; v. 273; p. 455.
Sawing, drilling, grinding, &c., Machine for. P. Morris. No. 1,337,147; Apr. 13; v. 273; p. 334.
Sawing-machine. J. H. McPartland. No. 1,336,365; Apr. 6; v. 273; p. 125.
Sawing-machine. A. H. Rumple. No. 1,335,798; Apr. 6; v. 273; p. 18.
Scaffold. W. D. Kelly. No. 1,336,141; Apr. 6; v. 273; p. 83.

Scaffold-bracket. G. F. Moore. No. 1,337,088; Apr. 13; v. 273; p. 323.
Scaffold, Window-. J. H. Cook. No. 1,336,283; Apr. 6; v. 273; p. 109.
Scale, Registering weighing-. H. Hathaway. No. 1,336,351; Apr. 6; v. 273; p. 122.
Scales, Value printing and indicating device for. E. E. L. and F. G. L. Boyer. No. 1,338,282; Apr. 27; v. 273; p. 693.
Scraper, Bearing-. M. A. Burch. No. 1,336,885; Apr. 13; v. 273; p. 284.
Scraper, Flue-. B. M. Berntson. No. 1,336,673; Apr. 13; v. 273; p. 243.
Scraping-machine. O. Dorthen. No. 1,337,890; Apr. 20; v. 273; p. 549.
Screen: *See*—
Automatic screen. Wind-shield screen.
Porthole-screen. Window-screen.
Well-screen.
Screen attachment, Bolter-. J. M. Kennedy. No. 1,336,300; Apr. 6; v. 273; p. 112.
Screens, Apparatus for producing smoke-. R. C. Benner and H. F. French. No. 1,336,557; Apr. 13; v. 273; p. 221.
Screens, shades, and curtains, Combination bracket for. S. Heath. No. 1,337,768; Apr. 20; v. 273; p. 526.
Screw. J. W. Caldwell. No. 1,336,773; Apr. 13; v. 273; p. 262.
Screw-thread gage. A. Bechler. No. 1,336,189; Apr. 6; v. 273; p. 92.
Screw-threads, Cutter for milling. G. G. M. Hardingham. No. 1,335,892; Apr. 6; v. 273; p. 35.
Scythe. W. Worthington. No. 1,338,272; Apr. 27; v. 273; p. 691.
Sea-current-direction indicator. S. Sakauye. No. 1,336,925; Apr. 13; v. 273; p. 202.
Seal. E. Reich. No. 1,337,985; Apr. 20; v. 273; p. 568.
Seal, Self-locking. G. H. Ford. No. 1,338,618; Apr. 27; v. 273; p. 755.
Sealed receptacle, Hermetically-. W. E. Taylor. No. 1,337,491; Apr. 20; v. 273; p. 473.
Sealing device, Vacuum. H. Duffy. No. 1,336,211; Apr. 6; v. 273; p. 96.
Seam-pressing machine. J. Denemark. No. 1,337,204; Apr. 20; v. 273; p. 419.
Seat: *See*—
Car-seat. Infant-seat.
Cart-seat. Revoluble seat.
Closet-seat.
Seat-cushion, Upholstered. E. C. Lang and C. A. Van Derveer. No. 1,336,525; Apr. 13; v. 273; p. 214.
Seat structure. G. N. Schneider. No. 1,336,097; Apr. 6; v. 273; p. 75.
Sectional bolt. C. K. Wightman. No. 1,337,807; Apr. 20; v. 273; p. 533.
Sediment-drainage, Means of. B. F. Fowler. No. 1,337,215; Apr. 20; v. 273; p. 421.
Sedimentation apparatus. C. L. Peck. No. 1,337,094; Apr. 13; v. 273; p. 324.
Sedimentation apparatus. C. L. Peck. No. 1,337,095; Apr. 13; v. 273; p. 324.
Self-cleaning rake. C. Moore. No. 1,338,459; Apr. 27; v. 273; p. 726.
Separable fastener. C. A. Miller. No. 1,337,785; Apr. 20; v. 273; p. 529.
Separating-machine, Centrifugal. R. E. Lapham. No. 1,336,968; Apr. 13; v. 273; p. 300.
Separating-machine. C. H. McArthur. No. 1,336,848; Apr. 13; v. 273; p. 277.
Separator: *See*—
Grain-separator. Steam-separator.
Service and meter-test system and associated apparatus. B. D. Horton. No. 1,338,180; Apr. 27; v. 273; p. 673.
Setting mechanism. C. L. Lee. No. 1,338,230; Apr. 27; v. 273; p. 683.
Sewage disposal, Apparatus for. L. P. Berry, Jr. No. 1,337,431; Apr. 20; v. 273; p. 461.
Sewer-trap. L. S. Foerderer. No. 1,338,432; Apr. 27; v. 273; p. 720.
Sewing-machine. C. M. Abercrombie. No. 1,338,064; Apr. 27; v. 273; p. 652.
Sewing-machine. A. H. De Voe. No. 1,336,824; Apr. 13; v. 273; p. 272.
Sewing-machine. J. Kiewicz. No. 1,338,373; Apr. 27; v. 273; p. 710.
Sewing-machine. F. Zaleski. No. 1,338,348; Apr. 27; v. 273; p. 705.
Sewing-machine. F. Zaleski. No. 1,338,476; Apr. 27; v. 273; p. 729.
Sewing-machine. F. Zaleski. No. 1,338,477; Apr. 27; v. 273; p. 729.
Sewing-machine attachment. C. Bergeron. No. 1,336,340; Apr. 6; v. 273; p. 120.
Sewing machine, Button-. J. W. Darley, Jr. No. 1,336,346; Apr. 6; v. 273; p. 121.
Sewing machine, Embroidery-. G. M. Eames and J. S. Finch. No. 1,338,074; Apr. 27; v. 273; p. 654.
Sewing-machines, Thread-cutting mechanism for. W. L. Barron and F. E. Osol. No. 1,336,808; Apr. 13; v. 273; p. 269.
Sewing-machines, Thread-trimmer for. J. Kiewicz. No. 1,338,374; Apr. 27; v. 273; p. 710.
Sewing-machines, Trimming mechanism for. A. H. De Voe. No. 1,336,825; Apr. 13; v. 273; p. 273.
Sextant. H. A. Hughes and T. Y. Baker. No. 1,337,912; Apr. 20; v. 273; p. 553.
Shackle, Leaf-spring. S. M. Stone. No. 1,336,446; Apr. 13; v. 273; p. 200.
Shade and curtain fixture. W. Ojczyk. No. 1,337,615; Apr. 20; v. 273; p. 496.
Shade and curtain hanger, Window. J. C. Dodson. No. 1,337,827; Apr. 20; v. 273; p. 537.
Shade and curtain holder, Combination. M. and L. Roth. No. 1,336,051; Apr. 6; v. 273; p. 65.
Shade mounting, Window-. L. H. Boch. No. 1,338,168; Apr. 27; v. 273; p. 671.
Shade, Porch-. C. W. Warren. No. 1,336,325; Apr. 6; v. 273; p. 117.
Shade supporter, Window-. H. J. Richards. No. 1,338,591; Apr. 27; v. 273; p. 750.
Shaft-coupling. R. Carlstedt. No. 1,338,122; Apr. 27; v. 273; p. 663.
Shaft-coupling. C. H. Clark. No. 1,337,642; Apr. 20; v. 273; p. 501.
Shaker-operating-mechanism. A. L. Steere. No. 1,336,322; Apr. 6; v. 273; p. 116.
Shark-skins preparatory to tanning, Treating. A. Rogers. No. 1,338,531; Apr. 27; v. 273; p. 739.
Sharpener. G. W. Phillips. No. 1,337,154; Apr. 13; v. 273; p. 335.
Sharpener, Skate-. G. H. Berghman. No. 1,335,813; Apr. 6; v. 273; p. 21.
Shaving-stick holder. H. J. Purple. No. 1,338,156; Apr. 27; v. 273; p. 669.
Shearing machines, Clamping device for. T. H. Webb and C. J. Rhodes. No. 1,337,675; Apr. 20; v. 273; p. 508.
Sheave-block. H. L. Brink. No. 1,337,341; Apr. 20; v. 273; p. 445.
Sheet-moving mechanism. C. E. Throop. No. 1,336,598; Apr. 13; v. 273; p. 229.
Shell, Explosive. D. G. Edwards. No. 1,336,828; Apr. 13; v. 273; p. 273.
Shells and other explosive missiles, Firing mechanism for. G. L. McAlpine. No. 1,337,525; Apr. 20; v. 273; p. 480.
Shelling to sheet materials, Method and apparatus for applying. R. M. Briggs. (Reissue.) No. 14,833; Apr. 6; v. 273; p. 132.
Shelving, Adjustable. A. H. Levene. No. 1,336,971; Apr. 13; v. 273; p. 300.
Shelving, Metallic. E. C. Staples. No. 1,336,490; Apr. 13; v. 273; p. 208.
Ship and joining the sections, Sectional. J. Nacey. No. 1,338,246; Apr. 27; v. 273; p. 686.
Ship-propulsion installation. D. C. Black. No. 1,336,018; Apr. 6; v. 273; p. 60.
Ship-propulsion installation. D. C. Black. No. 1,336,019; Apr. 6; v. 273; p. 60.
Ship-propulsion installation. D. C. Black. No. 1,336,020; Apr. 6; v. 273; p. 60.
Ship-salvage device. M. Hyszka. No. 1,337,601; Apr. 20; v. 273; p. 494.
Ship the depth of sea-water, System of electrically indicating on-board. Y. Kawakita. No. 1,335,738; Apr. 6; v. 273; p. 7.
Ships' decks, bulkheads, walls, floors, ceilings, &c., Covering or insulation for. J. Davies, W. H. Jones, J. Davies, and H. J. Hale. No. 1,336,683; Apr. 13; v. 273; p. 245.
Ships, Device for locating sunken. G. Alexovits. No. 1,337,383; Apr. 20; v. 273; p. 453.
Ships, Means for propelling and steering. C. de Cazen. No. 1,337,442; Apr. 20; v. 273; p. 463
Ships, Means for protecting. J. P. Roe. No. 1,338,530; Apr. 27; v. 273; p. 739.
Shirt. N. Kaplan. No. 1,337,917; Apr. 20; v. 273; p. 554.
Shock-absorber. T. Davis. No. 1,337,345; Apr. 20; v. 273; p. 446.
Shock-absorber. T. Davis. No. 1,337,346; Apr. 20; v. 273; p. 446.
Shock-absorber. P. Hien. No. 1,338,371; Apr. 27; v. 273; p. 709.
Shock-absorber. C. Pardee. No. 1,336,534; Apr. 13; v. 273; p. 216.
Shock-absorber. P. S. Weaver. No. 1,338,270; Apr. 27; v. 273; p. 690.
Shock-absorber and axle-reinforcement. J. D. Teller. No. 1,337,291; Apr. 20; v. 273; p. 435.
Shock-absorbing spring. F. L. Spring. No. 1,336,167; Apr. 6; v. 273; p. 88.
Shock-loader. H. Henderson. No. 1,338,369; Apr. 27; v. 273; p. 709.
Shock-loaders, Frame-elevating means for. N. P. Albertson. No. 1,337,874; Apr. 20; v. 273; p. 546.
Shoe. J. C. Jardine and J. Dickie. No. 1,336,355; Apr. 6; v. 273; p. 123.
Shoe and counter therefor, Welt-. J. B. Hadaway. No. 1,337,219; Apr. 20; v. 273; p. 422.
Shoe and making same. J. F. Marshall. No. 1,336,784; Apr. 13; v. 273; p. 265.
Shoe-cleaner. R. J. Craig. No. 1,336,284; Apr. 6; v. 273; p. 109.
Shoe-closing device. S. O. Tymus. No. 1,338,341; Apr. 27; v. 273; p. 704.
Shoe-fastening device. J. McDonald. No. 1,336,146; Apr. 6; v. 273; p. 84.
Shoe-pounding machine. A. F. Froussard. No. 1,338,434; Apr. 27; v. 273; p. 721.

Shoe-press, Pneumatic. C. J. Stuart. No. 1,337,532; Apr. 20; v. 273; p. 481.
Shoe, Rubber. F. A. Joseph. No. 1,336,962; Apr. 13; v. 273; p. 299.
Shoe-turning machine. E. I. La Chapelle. No. 1,336,750; Apr. 13; v. 273; p. 258.
Shoes, Means for use in fitting. W. M. Halbach. No. 1,338,623; Apr. 27; v. 373; p. 756.
Shop-box. A. A. Tuttle. No. 1,338,051; Apr. 27; v. 273; p. 649.
Shot shells or cartridges, Wads for. C. S. Bird. No. 1,337,993; Apr. 27; v. 273; p. 638.
Shovel: *See*—
Power-shovel.
Show-case. S. M. Debakey. No. 1,337,049; Apr. 13; v. 273; p. 316.
Shutter. Focal-plane. E. C. Bass. (Reissue.) No. 14,837; Apr. 13; v. 273; p. 340.
Shuttle thread-eye. G. M. Cheney and L. C. Harwood. No. 1,337,389; Apr. 20; v. 273; p. 454.
Sign. G. E. Fuller. No. 1,336,517; Apr. 13; v. 273; p. 213.
Sign, Advertising-. F. A. Root. No. 1,338,532; Apr. 27; v. 273; p. 739.
Sign and holder therefor. H. P. Andresen. No. 1,335,870; Apr. 6; v. 273; p. 31.
Sign, Automatic display-. J. B. Barnett. No. 1,336,411; Apr. 13; v. 273; p. 193.
Sign, Electric. W. Swallow. No. 1,338,198; Apr. 27; v. 273; p. 677.
Sign mechanism. C. Roberts. No. 1,336,585; Apr. 13; v. 273; p. 226.
Signal: *See*—
Automobile danger-signal.
Automobile-signal.
Railroad-crossing signal.
Railway-signal.
Traffic-signal.
Vehicle-signal.
Signal device. C. F. Smith. No. 1,336,489; Apr. 13; v. 273; p. 207.
Signal-post. W. O'Toole. No. 1,337,947; Apr. 20; v. 273; p. 560.
Signal system. C. Muckenfuss. No. 1,337,021; Apr. 13; v. 273; p. 310.
Signals, Receiver-mounting for submarine. E. C. Wood. No. 1,336,497; Apr. 13; v. 273; p. 209.
Signaling and train-stop system. J. R. Coker. No. 1,336,889; Apr. 13; v. 273; p. 285.
Signaling apparatus. J. J. Buckley. No. 1,338,210; Apr. 27; v. 273; p. 679.
Signaling device. C. F. Schell. No. 1,337,669; Apr. 20; v. 273; p. 507.
Signaling device, Audible. C. Schroeder. No. 1,337,277; Apr. 20; v. 273; p. 433.
Signaling device, Vehicle. C. Ahlswede. No. 1,337,185; Apr. 20; v. 273; p. 415.
Signaling mechanism. F. R. McMurry. No. 1,337,783; Apr. 20; v. 273; p. 529.
Signaling system, Electric. F. N. Reeves. No. 1,337,482; Apr. 20; v. 273; p. 471.
Silk, Method and apparatus for winding artificial. W. H. Furness. No. 1,338,648. Apr. 27; v. 273; p. 760.
Silo. T. K. Massie. No. 1,335,747; Apr. 6; v. 273; p. 8.
Sinew and tendon extracting device. J. Hunsinger, Sr. No. 1,338,452; Apr. 27; v. 273; p. 724.
Singeing-furnace, Electric. O. A. Colby. No. 1,338,359; Apr. 27; v. 273; p. 707.
Siphon-starter. A. H. Marhenke. No. 1,336,310; Apr. 6; v. 273; p. 114.
Sizer and grader. A. M. O'Quinn. No. 1,337,257; Apr. 20; v. 273; p. 429.
Sizing apparatus. J. G. Kirksey. No. 1,338,227; Apr. 27; v. 273; p. 682.
Slabbing and loading machine. E. O. Toole. No. 1,336,440; Apr. 13; v. 273; p. 198.
Slack-adjuster. W. W. Hunzicker. No. 1,336,522; Apr. 13; v. 273; p. 214.
Sleeve construction. L. Schneider. No. 1,338,098; Apr. 27; v. 273; p. 658.
Sleeve-grip. B. Beale. No. 1,336,339; Apr. 6; v. 273; p. 120.
Slicing-machine. A. M. Demuth. No. 1,337,596; Apr. 20; v. 273; p. 493.
Slime-thickener. W. E. Darrow. No. 1,336,553; Apr. 13; v. 273; p. 220.
Slug-lock. W. H. Horsman. No. 1,335,966; Apr. 6; v. 273; p. 50.
Snowplow. M. G. Berridge. No. 1,336,016; Apr. 6; v. 273; p. 59.
Snubber. C. L. Baender. No. 1,337,878; Apr. 20; v. 273; p. 547.
Soap-holder. S. Szuba. No. 1,337,852; Apr. 20; v. 273; p. 541.
Soap-holder. E. K. Wolfe. No. 1,337,535; Apr. 20; v. 273; p. 482.
Socket and adapter. W. Halter. No. 1,336,431; Apr. 13; v. 273; p. 197.
Soda-lime composition and preparing same. R. E. Wilson and C. P. McNeil. No. 1,335,949; Apr. 6; v. 273; p. 46.
Soil pulverizer and packer, Tandem. H. C. Babcock and J. H. McCreary. No. 1,337,425; Apr. 20; v. 273; p. 460.
Solar heater. E. D. Arthur and W. G. Cartter. No. 1,338,644; Apr. 27; v. 273; p. 760.
Sound-box. H. Y. Prendergast. No. 1,338,395; Apr. 27; v. 273; p. 714.
Sound-box. H. Y. Prendergast. No. 1,338,396; Apr. 27; v. 273; p. 714.
Sound-reproducing machines, Brake or stop device for. R. T. Bell and L. Mandel. No. 1,336,606; Apr. 13; v. 273; p. 230.
Sound-reproducing mechanism, Time control for. A. C. Dittrich. No. 1,337,759; Apr. 20; v. 273; p. 524.
Sound-reproducing mechanism, Time control for. A. C. Dittrich. No. 1,337,760; Apr. 20; v. 273; p. 524.
Spade. C. E. Miller. No. 1,335,848; Apr. 6; v. 273; p. 27.
Spark-gap-controlling device. G. H. Taber. No. 1,337,853; Apr. 20; v. 273; p. 542.
Spark-plug. C. H. Duffy. (Reissue). No. 14,847; Apr. 27; v. 273; p. 763.
Spark-plug. A. Gates. No. 1,337,210; Apr. 20; v. 273; p. 421.
Spark-plug. W. A. Gwynn. No. 1,336,221; Apr. 6; v. 273; p. 97.
Spark-plug. H. J. Munster. No. 1,336,914; Apr. 13; v. 273; p. 290.
Spark-plug. W. O. Olson. No. 1,335,793; Apr. 6; v. 273; p. 17.
Spark-plug. W. C. Rentz. No. 1,337,959; Apr. 20; v. 273; p. 562.
Spark-plug. O. C. Rohde. No. 1,335,797; Apr. 6; v. 273; p. 18.
Spark-plug. D. S. Short. No. 1,335,762; Apr. 6; v. 273; p. 11.
Spark-plug. E. A. Warner. No. 1,337,169; Apr. 13; v. 273; p. 338.
Spark-plug. M. S. Williams. No. 1,337,679; Apr. 20; v. 273; p. 508.
Spark-plug holder. C. E. Wake. No. 1,338,540; Apr. 27; v. 273; p. 740.
Spark-plug intensifier. J. A. De Vilbiss and H. L. Miller. No. 1,335,940; Apr. 6; v. 273; p. 44.
Spear. E. Gray. No. 1,337,902; Apr. 20; v. 273; p. 551.
Spectacle-temple. I. M. Schwab. No. 1,337,330; Apr. 20; v. 273; p. 443.
Spectacles and eyeglasses, Rimless. R. H. Bradshaw. No. 1,337,818; Apr. 20; v. 273; p. 535.
Spectacles or goggles. J. H. Raphael and H. H. Scott. No. 1,338,526; Apr. 27; v. 273; p. 738.
Spectacles, Temple for. G. H. Day. No. 1,335,823; Apr. 6; v. 273; p. 22.
Speech-reproducing device. G. F. Atwood. No. 1,337,304; Apr. 20; v. 273; p. 438.
Speed-controller. F. A. Pequegnat and C. C. Knoll. No. 1,338,191; Apr. 27; v. 273; p. 675.
Speed-governor control, Variable-. W. W. Wells. No. 1,337,865; Apr. 20; v. 273; p. 544.
Speed, Mechanical device for transmitting and regulating. C. Sollima. No. 1,336,542; Apr. 13; v. 273; p. 218.
Speed mechanism, Variable-. O. S. Jeffries, Sr. No. 1,337,602; Apr. 20; v. 273; p. 494.
Speed-transmission mechanism, Variable-. R. G. Altvater. No. 1,337,578; Apr. 20; v. 273; p. 489.
Speedometer-magnet drive. O. B. Hjorth. No. 1,335,833; Apr. 6; v. 273; p. 24.
Spelter from galvanized articles, Machinery for removing superfluous. D. O'Neil, J. A. Holmquist, and J. W. Free. No. 1,338,152; Apr. 27; v. 273; p. 668.
Spindle. D. Lemoine and G. P. Fournier. No. 1,336,467; Apr. 13; v. 273; p. 203.
Spindle, Spinning-. G. H. Sheldon. No. 1,338,102; Apr. 27; v. 273; p. 659.
Spindles, Device for connecting tools to. W. F. Groene. No. 1,337,313; Apr. 20; v. 273; p. 440.
Spine-exerciser. B. Macfadden. No. 1,336,910; Apr. 13; v. 273; p. 289.
Spinning-brake. A. T. Underwood. No. 1,338,600; Apr. 27; v. 273; p. 751.
Spinning-machine. W. C. McLoughlin. No. 1,338,577; Apr. 27; v. 273; p. 747.
Spiral broaching-machine. H. E. Blanchard. No. 1,335,871; Apr. 6; v. 273; p. 31.
Sponge, Tanned. W. H. Allen. No. 1,336,806; Apr. 13; v. 273; p. 269.
Spoon and fork, Combined. E. S. Whyte. No. 1,337,174; Apr. 13; v. 273; p. 339.
Spoon, Skimming-. C. F. Beaufrere. No. 1,337,814; Apr. 20; v. 273; p. 534.
Spraying attachment. J. W. Burbank. No. 1,337,589; Apr. 20; v. 273; p. 492.
Spring: *See*—
Auto-tire spring.
Ball-bearing spring.
Bed-spring.
Berth safety-spring.
Clock-spring.
Door-spring.
Pawl-spring.
Vehicle-spring.
Spring. A. N. Clough. No. 1,338,490; Apr. 27; v. 273; p. 732.
Spring. G. R. Nyquist. No. 1,336,314; Apr. 6; v. 273; p. 115.
Spring and shock absorber. R. Ball. No. 1,336,184; Apr. 6; v. 273; p. 91.
Spring-leaf spreader. F. W. Volz. No. 1,338,539; Apr. 27; v. 273; p. 740.
Spring-leaf spreader. H. H. Struve. No. 1,338,111; Apr. 27; v. 273; p. 660.
Spring-motor. O. E. Boas. No. 1,337,385; Apr. 20; v. 273; p. 453.

Spring-plank, Interlocking. H. W. Wolff. No. 1,336,458; Apr. 13; v. 273; p. 202.
Spring-wheel. W. Gebhardt. No. 1,336,031; Apr. 6; v. 273; p. 62.
Spring-wheel. G. W. and T. B. Shropshire. No. 1,337,509; Apr. 20; v. 273; p. 488.
Sprinkler. R. W. Johnson and J. Bloom. No. 1,336,699; Apr. 13; v. 273; p. 248.
Squaring-clamp, Heavy. O. Bergstrom. No. 1,335,721; Apr. 6; v. 273; p. 4.
Stacker, Wheat-. H. F. Von Engeln. No. 1,336,005; Apr. 6; v. 273; p. 57.
Stamp and pen rack, Combination rubber-. L. B. Lindquist. No. 1,338,184; Apr. 27; v. 273; p. 674.
Stamp, Combined clock and time-. S. Agranat. No. 1,338,413; Apr. 27; v. 273; p. 717.
Stamp, Numbering-. A. Marks. No. 1,335,746; Apr. 6; v. 273; p. 8.
Stamping device, Hand. E. G. Clark. No. 1,337,591; Apr. 20; v. 273; p. 492.
Stanchion, Animal-. J. M. B. Lewis. No. 1,337,925; Apr. 20; v. 273; p. 556.
Stanchion, Animal-. J. M. B. Lewis. No. 1,337,927; Apr. 20; v. 273; p. 556.
Stanchion, Cattle-. N. Logan. No. 1,336,975; Apr. 13; v. 273; p. 301.
Stand: *See*—
Engine-stand.
Plant-stand.
Railway-switch stand.
Rim-holding stand.
Stand. N. De Long. No. 1,335,726; Apr. 6; v. 273; p. 4.
Stand and pedestal, Combined umbrella-. H. C. Stahl. No. 1,336,321; Apr. 6; v. 273; p. 116.
Stand or support. C. W. Greene. No. 1,338,437; Apr. 27; v. 273; p. 721.
Staples, and particularly for attaching buttons to articles, Machine for attaching. A. J. Matter. No. 1,336,786; Apr. 13; v. 273; p. 265.
Station-indicator. W. C. Knox. No. 1,336,035; Apr. 6; v. 273; p. 63.
Station-indicator and advertising device. J. A. Greer. No. 1,336,032; Apr. 6; v. 273; p. 62.
Stationary jack. W. J. E. Damker. No. 1,336,620; Apr. 13; v. 273; p. 233.
Steam-generator fitted with superheater. J. H. Hume. No. 1,337,653; Apr. 20; v. 273; p. 503.
Steam-generators, Water-level alarm for. H. W. Spencer and R. Clark. No. 1,338,197; Apr. 27; v. 273; p. 676.
Steam-separator. H. H. Tracy. No. 1,336,870; Apr. 13; v. 273; p. 281.
Steam-superheater. P. S. Kirke. No. 1,335,974; Apr. 6; v. 273; p. 51.
Steam-trap. U. Washino. No. 1,338,541; Apr. 27; v. 273; p. 741.
Steel-ball-making machine. K. Kobayashi. No. 1,337,079; Apr. 13; v. 273; p. 321.
Steel, High-speed. W. L. E. Ellender. No. 1,337,209; Apr. 20; v. 273; p. 420.
Steel, High-speed tool-. W. L. E. Ellender. No. 1,337,210; Apr. 20; v. 273; p. 420.
Steel, Magnet-. K. Honda. No. 1,338,132; Apr. 27; v. 273; p. 664.
Steel, Magnet-. K. Honda. No. 1,338,133; Apr. 27; v. 273; p. 665.
Steel, Magnet-. K. Honda. No. 1,338,134; Apr. 27; v. 273; p. 665.
Steel, Producing zirconium. H. C. Sicard. No. 1,335,992; Apr. 6; v. 273; p. 55.
Steel scrap, Utilizing. G. M. Muntz and C. M. Roubieu. No. 1,336,256; Apr. 6; v. 273; p. 104.
Steering reach-rod. R. A. Kaps. No. 1,337,138; Apr. 13; v. 273; p. 332.
Steering-wheel, Locking. E. H. Vincent. No. 1,335,865; Apr. 6; v. 273; p. 30.
Step. S. P. Barksdale. No. 1,336,718; Apr. 13; v. 273; p. 252.
Stepladder. M. E. Kelleher. No. 1,337,657; Apr. 20; v. 273; p. 504.
Stepladder. A. J. Remalia. No. 1,337,666; Apr. 20; v. 273; p. 506.
Sterilizer. H. M. Case. No. 1,338,069; Apr. 27; v. 273; p. 653.
Stirrup-leather. W. L. F. Faithfull. No. 1,335,826; Apr. 6; v. 273; p. 23.
Stitching machine, Booklet-. A. H. Maynard. No. 1,336,251; Apr. 6; v. 273; p. 103.
Stone-picker. W. Leduc. No. 1,338,023; Apr. 27; v. 273; p. 644.
Stone-profiling machine. E. A. Chase. No. 1,336,942; Apr. 13; v. 273; p. 295.
Stone-spreader. W. M. Scott. No. 1,338,161; Apr. 27; v. 273; p. 670.
Stool, Folding camp-. H. G. Dale. No. 1,338,124; Apr. 27; v. 273; p. 663.
Stopper: *See*—
Bottle-stopper.
Receptacle-stopper.
Vaporizing-stopper.
Storage-bin. R. E. Baker. No. 1,338,482; Apr. 27; v. 273; p. 730.
Storage-bin. R. E. Baker. No. 1,338,483; Apr. 27; v. 273; p. 730.
Storage-receptacles, Constructing. R. E. Baker. No. 1,338,484; Apr. 27; v. 273; p. 731.
Store, Home. S. M. Debakey. No. 1,337,050; Apr. 13; v. 273; p. 316.
Storm and screen window hanger. S. G. Calvelage. No. 1,337,689; Apr. 20; v. 273; p. 511.
Stove. F. J. Sass. No. 1,338,463; Apr. 27; v. 273; p. 726.
Stove. J. G. Scott. No. 1,335,760; Apr. 6; v. 273; p. 11.
Stove, Gas-. N. Schmitt. No. 1,337,413; Apr. 20; v. 273; p. 458.
Stove, Heating-. P. W. Banta. No. 1,336,412; Apr. 13; v. 273; p. 194.
Stove, Portable fireplace-heating-. W. H. Johnston. No. 1,336,700; Apr. 13; v. 273; p. 248.
Stove-top plate. W. E. Jordan. No. 1,337,774; Apr. 20; v. 273; p. 527.
Stove-trimming. J. Jungers. No. 1,337,605; Apr. 20; v. 273; p. 495.
Strainer, Air-. F. S. Orem. No. 1,337,564; Apr. 20; v. 273; p. 487.
Strainer or receptacle. T. W. Gilmer. No. 1,337,898; Apr. 20; v. 273; p. 851.
Straw-spreader. G. W. Williams. No. 1,338,544; Apr. 27; v. 273; p. 741.
Straw-spreader. J. H. Smith. No. 1,338,045; Apr. 27; v. 273; p. 648.
Stump-pulling machine. R. E. Balsly. No. 1,335,931; Apr. 6; v. 273; p. 43.
Submarines, Torpedo discharge for. J. Turcan. No. 1,336,110; Apr. 6; v. 273; p. 77.
Suction-cleaner. H. E. Hoover. No. 1,336,078; Apr. 6; v. 273; p. 71.
Supervisory system. H. P. Clausen. No. 1,337,753; Apr. 20; v. 273; p. 523.
Support. J. Dottl. No. 1,335,881; Apr. 6; v. 273; p. 33.
Surgeon's plaster-knife. H. B. Philips. No. 1,336,376; Apr. 6; v. 273; p. 127.
Surgical tourniquet. R. Maeda. No. 1,338,578; Apr. 27; v. 273; p. 748.
Sweeper. F. L. Collis. No. 1,337,199; Apr. 20; v. 273; p. 418.
Sweeper. B. Frame. No. 1,336,349; Apr. 6; v. 273; p. 122.
Swing. C. D. Clipfell and G. Manikowske. No. 1,335,938; Apr. 6; v. 273; p. 44.
Swingletree. W. E. Jones. No. 1,335,971; Apr. 6; v. 273; p. 51.
Switch: *See*—
Automatic switch.
Automatic selecting-switch.
Battery-switch.
Electric switch.
Electric-light switch.
Electrical switch.
Electromagnetic switch.
Measuring-instrument switch.
Motor-stopping switch.
Overhead switch.
Pedal-switch.
Railway-switch.
Trolley-switch.
Switch face-plate and lock. H. Kaplan. No. 1,337,137; Apr. 13; v. 273; p. 332.
Switches, Safety device for point-. L. Dunn. No. 1,337,054; Apr. 13; v. 273; p. 317.
Syringe. G. T. Pearsons. No. 1,337,467; Apr. 20; v. 273; p. 468.
Syringe with protecting-hood, Injection-. G. T. Court. No. 1,336,730; Apr. 13; v. 273; p. 254.
Syringes, Sterilizer attachment for hypodermic. G. B. Young. No. 1,336,061; Apr. 6; v. 273; p. 67.
Table: *See*—
Automobile auxiliary table.
Concentrating-table.
Chiropractic table.
Drawing-table.
Extension-table.
Osteopathic table.
Oven rotary table.
Turntable.
Table and gage, Combined work-. J. W. Vaughan. No. 1,336,799; Apr. 13; v. 273; p. 268.
Table and ironing-board. G. W. Hudson. No. 1,336,433; Apr. 13; v. 273; p. 197.
Table corner-brace. P. White. No. 133,202; Apr. 27; v. 273; p. 677.
Table-top. A. N. Clough. No. 1,336,818; Apr. 13; v. 273; p. 271.
Table-top, Collapsible. R. A. Gillies. No. 1,336,954; Apr. 13; v. 273; p. 297.
Tablet, Writing-. J. Frank. No. 1,337,835; Apr. 20; v. 273; p. 538.
Tack, Upholsterer's. S. M. Bliss. No. 1,336,273; Apr. 6; v. 273; p. 107.
Tag, Identification-. G. T. Spaulding. No. 1,335,995; Apr. 6; v. 273; p. 55.
Tag, Price-. S. B. Bedinger. No. 1,337,586; Apr. 20; v. 273; p. 491.
Talking-machines, Mechanism-support for. J. C. Kenney. No. 1,336,842; Apr. 13; v. 273; p. 276.
Talking-machines, Record-holding cabinet for. R. D. Allen. No. 1,337,812; Apr. 20; v. 273; p. 534.
Tank: *See*—
Watering-tank.
Tank-heater. T. Severson. No. 1,337,800; Apr. 20; v. 273; p. 531.
Tank-regulator, Automatic. W. M. Fulton. (Reissue.) No. 14,843; Apr. 20; v. 273; p. 568.
Tanning. C. C. Krouse. No. 1,338,307; Apr. 27; v. 273; p. 697.
Tape, Buttonhole-. C. E. Oathout. No. 1,336,577; Apr. 13; v. 273; p. 224.
Tar-extractor apparatus and method. J. Becker. No. 1,337,984; Apr. 20; v. 273; p. 567.
Teakettle. F. M. Case. No. 1,338,553; Apr. 27; v. 273; p. 743.

Teeth, Producing digging-. W. G. Nichols. No. 1,336,576; Apr. 13; v. 273; p. 224.
Telegraph instrument. T. J. Dunn. No. 1,338,497; Apr. 27; v. 273; p. 733.
Telegraph system. J. H. Bell. No. 1,337,748; Apr. 20; v. 273; p. 522.
Telegraphy. J. H. Bell. No. 1,336,414; Apr. 13; v. 273; p. 194.
Telephone-amplifier. H. C. Egerton. No. 1,337,694; Apr. 20; v. 273; p. 512.
Telephone-booth controller. G. E. Thum and M. Theimer. No. 1,337,858; Apr. 20; v. 273; p. 543.
Telephone-cord. A. Reihing. No. 1,336,859; Apr. 13; v. 273; p. 279.
Telephone-exchange apparatus. J. N. Reynolds. No. 1,337,325; Apr. 20; v. 273; p. 442.
Telephone-exchange system. H. P. Clausen. No. 1,337,197; Apr. 20; v. 273; p. 417.
Telephone-exchange system. H. P. Clausen. No. 1,337,754; Apr. 20; v. 273; p. 523.
Telephone-exchange system. H. P. Clausen. No. 1,337,755; Apr. 20; v. 273; p. 523.
Telephone-exchange system. W. L. Dodge. No. 1,337,761; Apr. 20; v. 273; p. 524.
Telephone-exchange system. W. H. Harrison. No. 1,337,471; Apr. 20; v. 273; p. 469.
Telephone-exchange system. A. E. Lundell. No. 1,337,711; Apr. 20; v. 273; p. 515.
Telephone-exchange system. A. E. Lundell. No. 1,337,782; Apr. 20; v. 273; p. 528.
Telephone-exchange system. J. L. McQuarrie. No. 1,337,714; Apr. 20; v. 273; p. 516.
Telephone-exchange system. A. B. Sperry. No. 1,337,671; Apr. 20; v. 273; p. 507.
Telephone-exchange system. H. W. Ulrich. No. 1,337,297; Apr. 20; v. 273; p. 437.
Telephone-exchange system. T. Van Amstel. No. 1,337,736; Apr. 20; v. 273; p. 520.
Telephone-exchange system. R. S. Wilbur. No. 1,337,301; Apr. 20; v. 273; p. 437.
Telephone-exchange system. S. B. Williams, Jr. No. 1,337,681; Apr. 20; v. 273; p. 509.
Telephone-exchange system. S. B. Williams, Jr., and C. F. Baldwin. No. 1,337,740; Apr. 20; v. 273; p. 521.
Telephone-exchange system, Machine-switching. A. E. Lundell. No. 1,337,710; Apr. 20; v. 273; p. 515.
Telephone-receiver. J. A. Wotton. No. 1,337,741; Apr. 20; v. 273; p. 521.
Telephone receiver and receiver-switch. A. Engelberg. No. 1,337,892; Apr. 20; v. 273; p. 550.
Telephone-receiver holder. C. F. Simpson. No. 1,336,929; Apr. 13; v. 273; p. 293.
Telephone, Recording-. J. F. Malthoner. No. 1,335,978; Apr. 6; v. 273; p. 52.
Telephone-reminder. J. Jasina. No. 1,337,319; Apr. 20; v. 273; p. 441.
Telephone set. W. G. Crawford. No. 1,337,692; Apr. 20; v. 273; p. 511.
Telephone-support. W. I. Miller. No. 1,336,253; Apr. 6; v. 273; p. 104.
Telephone system. W. Aitken. No. 1,338,350; Apr. 27; v. 273; p. 706.
Telephone system. L. W. Carroll. No. 1,337,752; Apr. 20; v. 273; p. 523.
Telephone system. C. L. Goodrum. No. 1,337,309; Apr. 20; v. 273; p. 439.
Telephone system. C. L. Goodrum. No. 1,337,310; Apr. 20; v. 273; p. 439.
Telephone system. C. L. Goodrum. No. 1,337,699; Apr. 20; v. 273; p. 513.
Telephone system. R. C. M. Hastings. (Reissue.) No. 14,848; Apr. 27; v. 273; p. 763.
Telephone system. J. E. Hilbish. No. 1,337,976; Apr. 20; v. 273; p. 566.
Telephone system. C. W. Keckler. No. 1,335,739; Apr. 6; v. 273; p. 7.
Telephone system. A. E. Lundell. No. 1,337,712; Apr. 20; v. 273; p. 515.
Telephone system. J. L. McQuarrie. No. 1,337,713; Apr. 20; v. 273; p. 515.
Telephone system. J. L. McQuarrie. No. 1,337,715; Apr. 20; v. 273; p. 516.
Telephone system. F. Schoenwolf. No. 1,336,098; Apr. 6; v. 273; p. 75.
Telephone system. R. S. Wilbur and W. H. Harrison. No. 1,337,676; Apr. 20; v. 273; p. 508.
Telephone system, Automatic. H. C. Hershey. No. 1,338,370; Apr. 27; v. 273; p. 709.
Telephone system, Automatic. W. T. Powell. No. 1,337,324; Apr. 20; v. 273; p. 442.
Telephone system, Two-wire party-line lockout. T. G. Martin. (Reissue.) No. 14,846; Apr. 20; v. 273; p. 569.
Telephone systems, Automatic. T. G. Martin. No. 1,338,318; Apr. 27; v. 273; p. 700.
Temperature-regulator. V. F. Davis. No. 1,336,072; Apr. 6; v. 273; p. 69.
Temperature regulator, Fluid-. W. Hodgson. No. 1,337,701; Apr. 20; v. 273; p. 513.
Tennis-rackets, Protecting-holder for. A. F. Schenkelberger. No. 1,336,092; Apr. 6; v. 273; p. 73.
Tenoning and equalizing machine. W. F. McCarty. No. 1,337,143; Apr. 13; v. 273; p. 333.
Tent. G. M. Webber. No. 1,338,058; Apr. 27; v. 273; p. 650.
Testing device. M. W. Davis. No. 1,336,424; Apr. 13; v. 273; p. 196.
Testing device. F. E. Harpst. No. 1,337,132; Apr. 13; v. 273; p. 331.
Testing-machine. W. J. Francke. No. 1,335,887; Apr. 6; v. 273; p. 34.
Testing-machine. J. S. Stuil. No. 1,336,543; Apr. 13; v. 273; p. 218.
Theater-chair. V. F. Linke. No. 1,336,641; Apr. 13; v. 273; p. 236.
Therapeutic apparatus for treatment of the lower portion of the body. V. L. Ruiter. No. 1,337,798; Apr. 20; v. 273; p. 531.
Thermo-insulation material and producing same. T. B. Munroe. No. 1,335,909; Apr. 6; v. 273; p. 39.
Thermometer, Luminous. G. P. Pitkin. No. 1,338,524; Apr. 27; v. 273; p. 738.
Thermostat. F. J. Heideman. No. 1,336,518; Apr. 13; v. 273; p. 213.
Thermostat. G. E. Lee. No. 1,338,024; Apr. 27; v. 273; p. 644.
Thermostat. A. J. Otto. No. 1,337,529; Apr. 20; v. 273; p. 480.
Thermostat. A. G. Stephenson. No. 1,337,623; Apr. 20; v. 273; p. 498.
Thermostat, High-temperature. A. J. Otto. No. 1,337,367; Apr. 20; v. 273; p. 450.
Thermostatic systems, Electrothermic motor for. E. E. Gold. No. 1,337,764; Apr. 20; v. 273; p. 525.
Thread-gage. G. B. Lockey and A. F. Lawson. No. 1,337,018; Apr. 13; v. 273; p. 309.
Thread-holder. C. Davis. No. 1,336,554; Apr. 13; v. 273; p. 220.
Thread-holder. C. H. Hoofnagle. No. 1,336,903; Apr. 13; v. 273; p. 288.
Threads, Method and apparatus for cutting left-handed. E. Ibach. No. 1,338,083; Apr. 27; v. 273; p. 655.
Threading-machine. W. E. Elliott. No. 1,336,777; Apr. 13; v. 273; p. 263.
Threshing-machines, Auxiliary floors for. G. B. Lundy. No. 1,338,142; Apr. 27; v. 273; p. 666.
Ticket-dispensing machine, Automatic. J. L. Gore. No. 1,337,837; Apr. 20; v. 273; p. 539.
Ticket printing and issuing machine. H. A. Martin. No. 1,338,238; Apr. 27; v. 273; p. 684.
Ticket-taker, Mechanical. W. J. Harvie. No. 1,335,968; Apr. 6; v. 273; p. 49.
Ticket, Transfer-. E. E. Hyland. No. 1,338,018; Apr. 27; v. 273; p. 643.
Tie-plate. F. E. Fitzpatrick. No. 1,338,431; Apr. 27; v. 273; p. 720.
Tie-presser. W. B. Munt. No. 1,338,189; Apr. 27; v. 273; p. 675.
Tillage-blade. C. E. Curtiss. No. 1,336,821; Apr. 13; v. 273; p. 272.
Time-controlled dead-locking device. R. C. Lewis. No. 1,337,083; Apr. 13; v. 273; p. 322.
Time-controlled mechanism. R. H. Berkstresser. No. 1,337,037; Apr. 13; v. 273; p. 313.
Timer. F. C. Hersee. No. 1,338,015; Apr. 27; v. 273; p. 642.
Timer. R. J. Traupmann. No. 1,338,049; Apr. 27; v. 273; p. 649.
Timer attachment. N. Isachson. No. 1,336,296; Apr. 6; v. 273; p. 112.
Timer, Automatic. I. L. Slawter. No. 1,337,282; Apr. 20; v. 273; p. 434.
Timing apparatus. I. B. Smith. No. 1,337,335; Apr. 20; v. 273; p. 444.
Tire. E. Carran. No. 1,336,817; Apr. 13; v. 273; p. 271.
Tire. A. M. Poynter. No. 1,335,916; Apr. 6; v. 273; p. 40.
Tire. J. G. Summers. No. 1,337,289; Apr. 20; v. 273; p. 435.
Tire. H. K. Wheelock. No. 1,336,452; Apr. 13; v. 273; p. 201.
Tire, Armored. B. Granville. No. 1,338,011; Apr. 27; v. 273; p. 641.
Tire, Automobile-. L. Hofmeister. No. 1,336,139; Apr. 6; v. 273; p. 82.
Tire-carrier. T. A. Hoover. No. 1,337,911; Apr. 20; v. 273; p. 553.
Tire-carrier. H. H. Horrocks. No. 1,338,630; Apr. 27; v. 273; p. 757.
Tire-chain. S. Goddard. No. 1,338,009; Apr. 27; v. 273; p. 641.
Tire-chain. R. E. Muffly. No. 1,336,369; Apr. 6; v. 273; p. 126.
Tire-chain fastener. Y. Shimizu. No. 1,336,383; Apr. 6; v. 273; p. 128.
Tire-filler. J. H. North. No. 1,337,528; Apr. 20; v. 273; p. 480.
Tire-inflating mechanism, Automatic pneumatic. A. W. Stonestreet. No. 1,338,337; Apr. 27; v. 273; p. 703.
Tire-making machine. E. G. Templeton. No. 1,338,407; Apr. 27; v. 273; p. 716.
Tire, Motor-vehicle. J. J. Dana. No. 1,338,290; Apr. 27; v. 273; p. 694.
Tire, Pneumatic. E. P. Altenburg. No. 1,337,813; Apr. 20; v. 273; p. 534.
Tire, Pneumatic. E. G. Fido. No. 1,336,348; Apr. 6; v. 273; p. 121.
Tire, Pneumatic. E. B. Killen. No. 1,337,660; Apr. 20; v. 273; p. 505.

Tire, Pneumatic. E. M. Story. No. 1,336,663; Apr. 13; v. 273; p. 241.
Tire-protector. R. T. Baker. No. 1,336,271; Apr. 6; v. 273; p. 107.
Tire-protector. L. F. Petey. No. 1,337,950; Apr. 20; v. 273; p. 561.
Tire-protector. I. Raffelson. No. 1,336,757; Apr. 13; v. 273; p. 259.
Tire, Resilient. F. C. Cave. No. 1,335,820; Apr. 6; v. 273; p. 22.
Tire, Resilient. D. J. Demas. No. 1,337,443; Apr. 20; v. 273; p. 464.
Tire-rim, Demountable. J. V. Brownlee. No. 1,338,067; Apr. 27; v. 273; p. 652.
Tire scope, Auto-. W. L. Dysart and C. H. Lanius. No. 1,338,615; Apr. 27; v. 273; p. 754.
Tire-treads, Vulcanizer's die for preserving antiskid. O. L. McCormick. No. 1,338,233; Apr. 27; v. 273; p. 682.
Tire-tool. L. L. Keys. No. 1,338,576; Apr. 27; v. 273; p. 747.
Tire-tube-making apparatus. D. Lowe. No. 1,337,930; Apr. 20; v. 273; p. 557.
Tire-valve. E. V. Myers. No. 1,338,245; Apr. 27; v. 273; p. 686.
Tire valves, Dust-cap for protecting automobile-. J. Shaw. No. 1,335,861; Apr. 6; v. 273; p. 29.
Tire, Vehicle-. E. R. Simms. No. 1,336,790; Apr. 13; v. 273; p. 266.
Tire, Vehicle-. W. J. Stoltz. No. 1,338,595; Apr. 27; v. 273; p. 751.
Tire wrapping and unwrapping apparatus. C. Ziegler. No. 1,336,328; Apr. 6; v. 273; p. 118.
Tire wrapping and unwrapping apparatus. C. Ziegler. No. 1,336,329; Apr. 6; v. 273; p. 118.
Tires and mechanism for practising the same, Forming. H. J. Doughty. No. 1,337,207; Apr. 20; v. 273; p. 419.
Tires, Antiskidding-armor for truck-. F. McLaughlin. No. 1,336,363; Apr. 6; v. 273; p. 124.
Tires, Apparatus and method for building pneumatic. B. Darrow. No. 1,335,879; Apr. 6; v. 273; p. 33.
Tires, Automatic telltale for pneumatic. J. E. Kennedy. No. 1,338,637; Apr. 27; v. 273; p. 759.
Tires, Inner tube for pneumatic. J. J. Voorhees, Jr. No. 1,336,173; Apr. 6; v. 273; p. 89.
Tires, Pneumatic core for repairing. A. L. Johnson and A. O. Alsten. No. 1,337,707; Apr. 20; v. 273; p. 514.
Tires, Retreading. S. H. Goldberg. No. 1,336,624; Apr. 13; v. 273; p. 234.
Tires, Retreading. F. Maier. No. 1,336,911; Apr. 13; v. 273; p. 289.
Tires, Thread attachment for. W. C. Cranston. No. 1,338,175; Apr. 27; v. 273; p. 672.
Titanium compounds, Preparation of. H. Wrigley and H. Spence. No. 1,338,473; Apr. 27; v. 273; p. 728.
Toasting and boiling device. W. H. Ketler. No. 1,336,565; Apr. 13; v. 273; p. 222.
Tobacco mixture. C. C. Nelson. No. 1,338089; Apr. 27; v. 273; p. 656.
Tobacco-pipe. J. W. Ivory. No. 1,336,233; Apr. 6; v. 273; p. 100.
Tobacco-pipe. L. Suedmeyer. No. 1,336,393; Apr. 6; v. 273; p. 130.
Tobacco tin or box. J. M. Heasley. No. 1,336,228; Apr. 6; v. 273; p. 99.
Toffee, Machine for breaking up. H. R. H. Clayton and O. J. Rose. No. 1,335,937; Apr. 6; v. 273; p. 44.
Toggle connection. J. J. Cassidy. No. 1,338,171; Apr. 27; v. 273; p. 672.
Toilet box. A. Garbeil. No. 1,336,216; Apr. 6; v. 273; p. 97.
Toll trunk-circuit. O. F. Cassaday. No. 1,336,615; Apr. 13; v. 273; p. 232.
Tongs. J. Bernath. No. 1,338,065; Apr. 27; v. 273; p. 652.
Tongs, Pipe-. H. W. Fletcher No. 1,337,509; Apr. 20; v. 273; p. 476.
Tongs, Tie-handling. H. R. Stovall. No. 1,337,101; Apr. 13; v. 273; p. 325.
Tool, Automobile-tire. L. H. Osterhage. No. 1,336,916; Apr. 13; v. 273; p. 290.
Tool, Boring and reaming. C. F. Heinkel. No. 1,337,015; Apr. 13; v. 273; p. 309.
Tool, Calking-. G. H. Hamm. No. 1,336,295; Apr. v. 273; p. 111.
Tool, Filing-. C. C. Morey. No. 1,337,940; Apr. 20; v. 273; p. 559.
Tool head and handle construction. J. T. F. Bantjes. No. 1,336,185; Apr. 6; v. 273; p. 91.
Tool-holder. L. Q. Presby. No. 1,336,155; Apr. 6; v. 273; p. 85.
Tool-holder or tool. J. M. Lamb. No. 1,336,466; Apr. 13; v. 273; p. 203.
Tool-holder, Pocket. H. L. Kranz. No. 1,336,083; Apr. 6; v. 273; p. 72.
Tool, Interchangeable-jawed. W. Fiftal. No. 1,338,005; Apr. 27; v. 273; p. 640.
Tool, Overshot fishing-. E. A. Kliewer. No. 1,337,476; Apr. 20; v. 273; p. 470.
Tool, Rim-. P. R. Peterson. No. 1,335,795; Apr. 6; v. 273; p. 17.
Tool, Roof-framing. L. A. Van Nest. No. 1,337,107; Apr. 13; v. 273; p. 326.
Tool, Shoe-finishing. G. J. Julian. No. 1,335,786; Apr. 6; v. 273; p. 16.
Tool, Wire-bending. V. Olhovsky. No. 1,337,616; Apr. 20; v. 273; p. 497.
Tool, Wire-scraping. A. Lichtenstein. No. 1,337,236; Apr. 20; v. 273; p. 425.
Tools, Means for lubricating machine-. W. F. McCarty. No. 1,337,931; Apr. 20; v. 273; p. 557.
Tools, Support for pneumatic. W. Walker. No. 1,335,807; Apr. 6; v. 273; p. 20.
Tooth and backing, Anterior. F. Z. Hanscom. No. 1,335,734; Apr. 6; v. 273; p. 6.
Tooth, Artificial. W. Arkin. No. 1,335,717; Apr. 6; v. 273; p. 3.
Tooth-polishing device. W. L. Ellerbeck. No. 1,335,825; Apr. 6; v. 273; p. 23.
Toothbrush, Fountain-. J. A. Sargery and O. Dupont. No. 1,336,390; Apr. 6; v. 273; p. 130.
Toothbrush, Reversible. D. G. White. No. 1,337,173; Apr. 13; v. 273; p. 339.
Top. W. J. Kerr. No. 1,338,572; Apr. 27; v. 273; p. 747.
Top. W. J. Kerr. No. 1,338,573; Apr. 27; v. 273; p. 747.
Top. W. J. Kerr. No. 1,338,574; Apr. 27; v. 273; p. 747.
Top. W. J. Kerr. No. 1,338,575; Apr. 27; v. 273; p. 747.
Tool, Combination hand-. G. B. Caldwell. No. 1,338,420; Apr. 27; v. 273; p. 718.
Top, Folding. M. Buch. No. 1,336,022; Apr. 6; v. 273; p. 60.
Torch or burner. B. F. Hardt and S. T. Taylor. No. 1,338,653; Apr. 27; v. 273; p. 761.
Torpedo, Aero-submarine. E. A. Rider. No. 1,337,960; Apr. 20; v. 273; p. 563.
Torpedo capturing and destroying net. E. Kobler. No. 1,337,920; Apr. 20; v. 273; p. 555.
Torpedo-guard. K. Babecki. No. 1,337,502; Apr. 20; v. 273; p. 475.
Torpedo-shooting device. S. Rogozea. No. 1,336,656; Apr. 13; v. 273; p. 239.
Torpedo, Signaling-. W. T. McCullough. No. 1,337,240; Apr. 20; v. 273; p. 426.
Tote-box. A. H. Levene. No. 1,336,972; Apr. 13; v. 273; p. 300.
Toy. A. V. De Costa. No. 1,337,758; Apr. 20; v. 273; p. 524.
Toy. C. W. Ebeling. No 1,336,556; Apr. 13; v. 273; p. 220.
Toy. F. Garrigue. No. 1,337,354; Apr. 20; v. 273; p. 447.
Toy. S. Herzog. No. 1,338,449; Apr. 27; v. 273; p. 724.
Toy. R. E. Humbert. No 1,336,434; Apr 13; v. 273; p. 197.
Toy. M. Lalonde. No. 1,337,661; Apr. 20; v. 273; p. 505.
Toy. C. W. Oberreich. No. 1,336,374; Apr. 6; v. 273; p. 127.
Toy. C. S. Simmons. No. 1,337,570; Apr. 20; v. 273; p. 488.
Toy boat. H. T. and E. J. Kingsbury. No. 1,335,900; Apr. 6; v. 273; p. 37.
Toy building and design block. C. F. Lorenzen. No. 1,337,664; Apr. 20; v. 273; p. 506.
Toy building, Block. O. W. Ward. No. 1,337,171; Apr. 13; v. 273; p. 338.
Toy chime. R. G. Reid. No. 1,335,855; Apr. 6; v. 273; p. 28.
Toy-constructing material. A. N. Hall. No. 1,336,626; Apr. 13; v. 273; p. 234.
Toy, Figured. C. D. McClellan and J. Flynn. No. 1,337,932; Apr. 20; v. 273; p. 557.
Toy gun. R. B. Michalek. No. 1,338,458; Apr. 27; v. 273; p. 725.
Toy gun. M. Schoen. No. 1,337,967; Apr. 20; v. 273; p. 564.
Toy horse, Mechanical. G. W. Walker. No. 1,337,300; Apr. 20; v. 273; p. 437.
Toy horse, Walking. A. H. Loomis. No. 1,337,479; Apr. 20; v. 273; p. 470.
Toy, Mechanical. J. V. Irenius. No. 1,337,705; Apr. 20; v. 273; p. 514.
Toy, Mechanical. W. F. Pautzke. No. 1,336,756; Apr. 13; v. 273; p. 259.
Toy, Revolving. L. Romaniello. No. 1,337,483; Apr. 20; v. 273; p. 471.
Trace-hook. F. Brown. No. 1,338,610; Apr. 27; v. 273; p. 753.
Track-link. E. E. Wickersham. No. 1,336,876; Apr. 13; v. 273; p. 282.
Tracking device. A. A. Page. No. 1,337,530; Apr. 20; v. 273; p. 481.
Traction-wheel. O. R. Hanson. No. 1,338,299; Apr. 27; v. 273; p. 696.
Tractor. W. Christie. No. 1,336,130; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. No. 1,336,131; Apr. 6; v. 273; p. 81.
Tractor. W. Christie. No. 1,336,133; Apr. 6; v. 273; p. 81.
Tractor. A. D. Cole No 1,336,890; Apr. 13; v. 273; p. 285.
Tractor. P. Dessaules. No. 1,336,823; Apr. 13; v. 273; p. 272.
Tractor. P. E. Holt. No 1,336,961; Apr 13; v. 273; p. 298.
Tractor. C. F. Kilgore. No. 1,338,510; Apr. 27; v. 273; p. 735.

Tractor. O. L. Plettner and W. H. Lowe. No. 1,336,581; Apr. 13; v. 273; p. 225.
Tractor and repeller, Combination. P. C. Juhl. No. 1,337,841; Apr. 20; v. 273; p. 539.
Tractor draw-bar. J. Lauer, Jr. No. 1,337,521; Apr. 20; v. 273; p. 479.
Tractor, Motor-. W. Guthrie. No. 1,335,732; Apr. 6; v. 273; p. 5.
Tractor, Track-laying. R. H. White. No. 1,338,060; Apr. 27; v. 273; p. 651.
Tractor-tread link. G. E. Sibbett. No. 1,338,402; Apr. 27; v. 273; p. 713.
Tractor unit. G. S. Groves. No. 1,337,905; Apr. 20; v. 273; p. 552.
Tractor-wheel. E. L. Demorest. No. 1,336,074; Apr. 6; v. 273; p. 70.
Tractor-wheel. C. A. Slocum. No. 1,338,105; Apr. 27; v. 273; p. 659.
Tractor-wheel. E. Snider. No. 1,336,791; Apr. 13; v. 273; p. 266.
Tractors, Track-support for chain-track. W. Turnbull. No. 1,336,871; Apr. 13; v. 273; p. 281.
Tractors, Track-wheel suspension for track-laying. M. B. Morgan. No. 1,337,787; Apr. 20; v. 273; p. 529.
Tractors, Traction-frame for construction for track-laying. R. H. White. No. 1,338,059; Apr. 27; v. 273; p. 651.
Traffic-signal. D. J. Linehan. No. 1,338,028; Apr. 27; v. 273; p. 645.
Trailer. F. B. Allen. No. 1,338,546; Apr. 27; v. 273; p. 742.
Trailer for camping purposes. W. J. Hannam. No. 1,336,627; Apr. 13; v. 273; p. 234.
Train-control system. W. B. Murray. No. 1,337,255; Apr. 20; v. 273; p. 429.
Train-controlling system. B. A. Prince and E. I. La Count. No. 1,336,484; Apr. 13; v. 273; p. 207.
Transformer-mounting. C. H. Thordarson. No. 1,335,803; Apr. 6; v. 273; p. 19.
Transmission-cases, Device for holding bolts of. R. Libenschek. No. 1,337,084; Apr. 13; v. 273; p. 322.
Transmission, Combined differential and clutch. P. M. Myers. No. 1,336,532; Apr. 13; v. 273; p. 216.
Transmission mechanism. I. Hupp. No. 1,338,303; Apr. 27; v. 273; p. 696.
Transportation apparatus. L. W. Chism. No. 1,336,551; Apr. 13; v. 273; p. 220.
Trap: *See*—
Fish-trap. Rodent-trap.
Insect-trap. Sewer-trap.
Mousetrap.
Trap. W. M. Fulton. No. 1,337,064; Apr. 13; v. 273; p. 319.
Trap. F. G. Hirst. No. 1,338,079; Apr. 27; v. 273; p. 654.
Trap. N. S. Nelson and A. Boode. No. 1,337,149; Apr. 13; v. 273; p. 334.
Trash-receptacle. W. Sachs. No. 1,338,400; Apr. 27; v. 273; p. 715.
Trend, Safety-. J. W. Scott and T. H. Greer. No. 1,338,332; Apr. 27; v. 273; p. 702.
Tree-shaker. L. M. Fleckner. No. 1,337,398; Apr. 20; v. 273; p. 456.
Trees, Destroying scale on citrus. H. Blumenberg. No. 1,337,538; Apr. 20; v. 273; p. 482.
Trellis. G. T Parr. No. 1,336,580; Apr. 13; v. 273; p. 225.
Tricycle and rocking-horse, Combined. F. G. Winnek. No. 1,338,545; Apr. 27; v. 273; p. 741.
Trimmer: *See*—
Hair-trimmer.
Trolley. E. S. Combs. No. 1,336,199; Apr. 6; v. 273; p. 94.
Trolley-head. L. Sabo. No. 1,338,193; Apr. 27; v. 273; p. 676.
Trolley-retriever. J. Kozak. No. 1,336,966; Apr. 13; v. 273; p. 299.
Trolley-switch. J. J. Ruddick. No. 1,336,485; Apr 13; v. 273; p. 207.
Trousers-support. H. G. Ainsworth. No. 1,335,927; Apr. 6; v. 273; p. 42.
Truck. W. Hyden. No. 1,337,914; Apr. 20; v. 273; p. 554.
Truck, Box or case. C. K. Carlson. No. 1,337,438; Apr. 20; v. 273; p. 463.
Truck-dumping mechanism. A. C. Settlage. No. 1,336,163; Apr. 6; v. 273; p. 87.
Truck, Elevating-. B. E. Scriven. No. 1,338,255; Apr. 27; v. 273; p. 687.
Truck for emptying and refilling dry kilns, Dry-kiln. L. E. Carter. No. 1,337,439; Apr. 20; v. 273; p. 463.
Truck, Industrial. M. S. Towson and C. E. Cochran. No. 1,337,804; Apr. 20; v. 273; p. 532.
Truck, Lifting-. W. Stuebing, Jr. (Reissue.) No. 14,839; Apr. 13; v. 273; p. 341.
Truck mechanism, Tractor. W. Turnbull. No. 1,336,387; Apr. 6; v. 273; p. 129.
Truck, Railway-car. R. A. McClure and W. W. Boulton. No. 1,336,361; Apr. 6; v. 273; p. 124.
Truck tractor, Motor-. W. and M. H. Paterson. No. 1,336,653; Apr. 13; v. 273; p. 239.
Trucks, Attaching members for axle and caster housings for. F. J. Trumpour. No. 1,338,657; Apr. 27; v. 273; p. 762.
Trucks, Detachable handle for. W. C. Hecht. No. 1,336,033; Apr. 6; v. 273; p. 63.
Truss. J. W. Buckley. No. 1,337,994; Apr. 27; v. 273; p. 638.
Truss. J. Doleck. No. 1,336,513; Apr. 13; v. 273; p. 212.
Tubes, Receptacle for pneumatic-tire. M. F. Swerer. No. 1,337,178; Apr. 13; v. 273; p. 340.
Tubing-coupling. J. H. Dohner. No. 1,337,547; Apr. 20; v. 273; p. 484.
Tunnel and excavating. J. C. Meem. No. 1,338,030; Apr. 27; v. 273; p. 645.
Tunnel-block. C. G. Hastings. No. 1,337,767; Apr. 20; v. 273; p. 526.
Tunneling apparatus. J. O. Mack. No. 1,338,237; Apr. 27; v. 273; p. 684.
Tunneling-machine. L. W. Campbell. No. 1,335,723; Apr. 6; v. 273; p. 4.
Turbine-driven set. R. G. Standerwick. No. 1,337,098; Apr. 13; v. 273; p. 325.
Turbine, Elastic-fluid. C. S. Rice. No. 1,337,096; Apr. 13; v. 273; p. 394.
Turbine plant, Steam or gas. O. A. Wiberg. No. 1,335,775; Apr. 6; v. 273; p. 14.
Turbine, Steam-. R. J. Dupuy. No. 1,336,827; Apr. 13; v. 273; p. 273.
Turbine, Steam-. C. R. Waller. No. 1,338,409; Apr. 27; v. 273; p. 716.
Turbines, Gearing for steam or gas. O. A. Wiberg and G. Karlsson. No. 1,337,376; Apr. 20; v. 273; p. 452.
Turning-machine, Automatic. F. H. Bancroft. No. 1,338,275; Apr. 27; v. 273; p. 691.
Turntable. R. A. McClure and W. W. Boulton. No. 1,336,362; Apr. 6; v. 273; p. 124.
Turntable-jack, Automobile. W. J. La Grange. No. 1,336,037; Apr. 6; v. 273; p. 63.
Twisting and winding machine. A. J. Kent. No. 1,337,658; Apr. 20; v. 273; p. 505.
Typewriter. F. W. Hilliard. No. 1,337,977; Apr. 20; v. 273; p. 566.
Typewriter and adding-machine collating device. J. A. Wherry. No. 1,336,454; Apr. 13; v. 273; p. 201.
Typewriter attachment. F. E. Fanger. No. 1,338,565; Apr. 27; v. 273; p. 745.
Typewriter, Disk. D. Jankower. No. 1,337,318; Apr. 20; v. 273; p. 441.
Typewriters, Ribbon-inking attachment for. W. Pain. No. 1,337,980; Apr. 20; v. 273; p. 567.
Typewriting and adding-machine collating device. J. A. Wherry. No. 1,336,453; Apr. 13; v. 273; p. 201.
Typewriting and computing machine, Combined. W. L. Gumprecht. No. 1,338,012; Apr. 27; v. 273; p. 642.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,338,014; Apr. 27; v. 273; p. 642.
Typewriting and computing machine, Combined. A. W. Steiger. No. 1,338,467; Apr. 27; v. 273; p. 727.
Typewriting-machine. W. A. Dobson. No. 1,335,956; Apr. 6; v. 273; p. 48.
Typewriting-machine. H. P. Nordmark. No. 1,337,563; Apr 20; v. 273; p. 486.
Typewriting-machine. J. E. O'Connor. No. 1,336,151; Apr. 6; v. 273; p. 85.
Typewriting-machine. A. W. Smith. No. 1,335,993; Apr. 6; v. 273; p. 55.
Typewriting-machines, Pressure-roller for. O. Thieme and F. O. Mueller. No. 1,336,797; Apr. 13; v. 273; p. 267.
Typographical machine. T. S. Homans. No. 1,338,628; Apr. 27; v. 273; p. 757.
Typographical machines, Magazine for. T. S. Homans. No. 1,338,627; Apr. 27; v. 273; p. 757.
Umbrella-tip. S. I. Goldstein. No. 1,336,218; Apr. 6; v. 273; p. 97.
Umbrella-tip. S. I. Goldstein. No. 1,336,219; Apr. 6; v. 273; p. 97.
Undergarment, Lady's. U. R. Boyd. No. 1,337,883; Apr. 20; v. 273; p. 548.
Underreamer. H. E. Brown. No. 1,336,884; Apr. 13; v. 273; p. 284.
Underreamer. E. C. and W. W. Wilson. No. 1,338,345; Apr. 27; v. 273; p. 705.
Universal joint. T. J. Kehoe. No. 1,335,740; Apr. 6; v. 273; p. 7.
Universal joint. E. G. Orbom. No. 1,335,913; Apr. 6; v. 273; p. 40.
Universal joint. W. H. Thiemer. No. 1,336,985; Apr. 13; v. 273; p. 303.
Utensil-guard. G. J. Sebald. No. 1,335,761; Apr. 6; v. 273; p. 11.
Vacuum-cleaner. C. W. Stewart. No. 1,336,760; Apr. 13; v. 273; p. 260.
Vacuum cleaning apparatus. C. W. Barnes. No. 1,336,994; Apr. 13; v. 273; p. 304.
Vacuum-receptacle construction. G. O. Schulz. No. 1,337,278; Apr. 20; v. 273; p. 433.
Vacuum-suction plate. C. N. Reese. No. 1,337,622; Apr. 20; v. 273; p. 498.
Valve. J. R. Doyle. No. 1,338,562; Apr. 27; v. 273; p. 745.
Valve. E. C. Marulli. No. 1,337,462; Apr. 20; v. 273; p. 467.
Valve attachment, Engine. B. H. Kessler. No. 1,336,237; Apr. 6; v. 273; p. 101.
Valve, Closet flush-. E. G. Stoltz. No. 1,335,763; Apr. 6; v. 273; p. 11.
Valve control and releasing device. R. F. Landis. No. 1,336,084; Apr. 6; v. 273; p. 72.

Valve-control system. W. G. Ferguson. No. 1,336,515; Apr. 13; v. 273; p. 212.
Valve, Flush-. E. L. Kellan. No. 1,337,177; Apr. 13; v. 273; p. 339.
Valve, Flushing-. W. F. Knell. No. 1,338,638; Apr. 27; v. 273; p. 759.
Valve for acetylene-gas generators, Carbid controlling and dumping. F. A. Webb. No. 1,337,805; Apr. 20; v. 273; p. 532.
Valve for chambered heat-insulating walls. J. J. Mendenhall. No. 1,337,611; Apr. 20; v. 273; p. 496.
Valve-gear, Reversing. W. E. Brown. No. 1,336,344; Apr. 6; v. 273; p. 121.
Valve-grinder. C. Dahlstedt. No. 1,338,212; Apr. 27; v. 273; p. 680.
Valve-grinder. D. A. Runnion. No. 1,336,863; Apr. 13; v. 273; p. 280.
Valve-grinder. L. Merritt. No. 1,335,979; Apr. 6; v. 273; p. 52.
Valve-lifter. J. Corsi. No. 1,336,202; Apr. 6; v. 273; p. 94.
Valve mechanism. G. A. Suffa. No. 1,336,447; Apr. 13; v. 273; p. 200.
Valve or faucet, Mixing-. J. L. T. Popp. No. 1,337,952; Apr. 20; v. 273; p. 561.
Valve, Piston or piston-. R. Allen. No. 1,335,951; Apr. 6; v. 273; p. 46.
Valve, Pneumatic-tire. J. O. Helliwell. No. 1,337,316; Apr. 20; v. 273; p. 440.
Valve-seats, Facing-tool for dressing. F. A. and B. P. Dexter. No. 1,337,052; Apr. 13; v. 273; p. 316.
Valve, Spray-. A. B. Holmes and T. M. Dugan. No. 1,337,516; Apr. 20; v. 273; p. 578.
Valve-spring compressor. A. B. Lockhart. (Reissue.) No. 14,845; Apr. 20; v. 273; p. 569.
Valve, Steam-. J. Wallace and T. R. Lees. No. 1,336,451; Apr. 13; v. 273; p. 200.
Valve-stems, Dust-cap for. W. E. Vollmer. No. 1,338,054; Apr. 27; v. 273; p. 650.
Valve-stems, Quick-acting dust-cap for inflating. W. L. Richards. No. 1,337,371; Apr. 20; v. 273; p. 451.
Valve-stems, Valve for inner-tube. V. A. Leach. No. 1,335,976; Apr. 6; v. 273; p. 52.
Valve-testing device. E. Coleman. No. 1,337,390; Apr. 20; v. 273; p. 454.
Valve, Thermally-actuated drain-. S. P. Waage and R. Warren. No. 1,338,469; Apr. 27; v. 273; p. 728.
Valve, Throttle-. R. W. Clifford and P. J. Nichols. No. 1,338,489; Apr. 27; v. 273; p. 732.
Valve unit, Thermostatic-. C. I. Hall. No. 1,337,907; Apr. 20; v. 273; p. 552.
Valves, Manufacturing puppet-. C. F. Couve. No. 1,337,901; Apr. 13; v. 273; p. 306.
Vapor mixtures, Treating gas-. W. E. Lummus. No. 1,336,360; Apr. 6; v. 273; p. 124.
Vaporizer. A. J. Richards. No. 1,338,398; Apr. 27; v. 273; p. 714.
Vaporizing-stopper. E. W. Austin. No. 1,337,189; Apr. 20; v. 273; p. 416.
Varnish, Preparing. C. T. Bragg. No. 1,337,749; Apr. 20; v. 273; p. 522.
Vault, Burial-. H. M. Knight. No. 1,337,559; Apr. 20; v. 273; p. 486.
Vehicle. H. L. Call. No. 1,337,437; Apr. 20; v. 273; p. 463.
Vehicle. J. E. Shearer. No. 1,336,100; Apr. 6; v. 273; p. 75.
Vehicle-awning. P. M. Gervig. No. 1,336,953; Apr. 13; v. 273; p. 297.
Vehicle-coupling attachment. C. L. B. de Saunier. No. 1,338,561; Apr. 27; v. 273; p. 745.
Vehicle-curtain light, Detachable. D. M. Winans. No. 1,337,302; Apr. 20; v. 273; p. 438.
Vehicle direction-indicator. N. Suzuki. No. 1,338,112; Apr. 27; v. 273; p. 661.
Vehicle-jack. J. M. Roberts. No. 1,335,858; Apr. 6; v. 273; p. 29.
Vehicle lifter or jack. M. E. Hughes. No. 1,335,969; Apr. 6; v. 273; p. 50.
Vehicle-lock. J. P. Lind. No. 1,337,709; Apr. 20; v. 273; p. 515.
Vehicle, Motor-. E. H. Belden. No. 1,335,720; Apr. 6; v. 273; p. 3.
Vehicle, Motor-. H. D. Church. No. 1,336,462; Apr. 13; v. 273; p. 202.
Vehicle, Motor-. C. R. Short. No. 1,335,989; Apr. 6; v. 273; p. 54.
Vehicle, Motor-. C. B. Steele. (Reissue.) No. 14,850; Apr. 27; v. 273; p. 764.
Vehicle, Motor-. F. A. Whitten. No. 1,336,008; Apr. 6; v. 273; p. 58.
Vehicle rebound-check. C. S. Burton. No. 1,337,996; Apr. 27; v. 273; p. 638.
Vehicle, Self-propelled. R. A. Wakefield. No. 1,336,935; Apr. 13; v. 273; p. 294.
Vehicle shock-absorber. W. N. Amory. No. 1,337,579; Apr. 20; v. 273; p. 490.
Vehicle-signal. P. V. Tamietti. No. 1,336,106; Apr. 6; v. 273; p. 76.
Vehicle signal, Motor-. P. H. Wolbaardt. No. 1,338,114; Apr. 27; v. 273; p. 661.
Vehicle signaling device. A. J. Hilger and R. Urchniak. No. 1,338,078; Apr. 27; v. 273; p. 654.
Vehicle-spring. I. D. Lengel and S. S. Shears. No. 1,336,468; Apr. 13; v. 273; p. 204.
Vehicle-spring bracket. F. C. Ewing. No. 1,336,829; Apr. 13; v. 273; p. 273.
Vehicle-spring shackle. J. J. Crawford. No. 1,338,557; Apr. 27; v. 273; p. 744.
Vehicle-top. W. A. Henderson. No. 1,338,446; Apr. 27; v. 273; p. 723.
Vehicle-wheel. G. W. Dague. No. 1,335,939; Apr. 6; v. 273; p. 44.
Vehicle-wheel. L. F. Jordan. No. 1,338,634; Apr. 27; v. 273; p. 758.
Vehicle-wheel. C. E. Walling. No. 1,338,471; Apr. 27; v. 273; p. 728.
Vehicle wheel, Motor-. E. K. Baker. No. 1,336,335; Apr. 6; v. 273; p. 119.
Vehicles and airplanes, Fuel-feeding device for. W. H. Muzzy. No. 1,338,323; Apr. 27; v. 273; p. 700.
Vehicles, Automatic draw-bar coupling for. A. L. Cooper. No. 1,337,391; Apr. 20; v. 273; p. 454.
Vehicles, Auxiliary spring for motor-. D. Nettenstrom. No. 1,336,481; Apr. 13; v. 273; p. 206.
Vehicles, Auxiliary traction-wheel for motor-. H. G. Steele. No. 1,337,672; Apr. 20; v. 273; p. 507.
Vehicles, Clutch and transmission mechanism for motor road-. G. E. D. Ralls. No. 1,338,252; Apr. 27; v. 273; p. 687.
Vehicles, Combined collision-buffer and direction-indicator for. F. C. Zahnow. No. 1,337,872; Apr. 20; v. 273; p. 546.
Vehicles, Differential for self-propelling. J. R. Lowry. No. 1,336,643; Apr. 13; v. 273; p. 237.
Vehicles, Direction-indicator for dirigible. W. Pendziwiater. No. 1,337,848; Apr. 20; v. 273; p. 541.
Vehicles, Direction-indicator for road-. E. G. Archer. No. 1,337,991; Apr. 27; v. 273; p. 638.
Vehicles, Driving-axle construction for. E. T. Ross and M. O. Trudeau. No. 1,338,042; Apr. 27; v. 273; p. 647.
Vehicles, Fluid-brake for motor-. F. G. Hultenheim. No. 1,338,302; Apr. 27; v. 273; p. 698.
Vehicles, Muffler attachment for motor-. W. F. Hudson. No. 1,336,354; Apr. 6; v. 273; p. 123.
Vehicle, Rear-axle differential for power-driven. J. E. Thomson. No. 1,336,107; Apr. 6; v. 273; p. 76.
Vehicles, Semiwood wheel for motor-. E. K. Baker. No. 1,336,336; Apr. 6; v. 273; p. 119.
Vehicles, Semiwood wheel for motor-. E. K. Baker. No. 1,336,338; Apr. 6; v. 273; p. 119.
Vehicles, Signal device for motor-. R. B. Benjamin. No. 1,336,609; Apr. 13; v. 273; p. 231.
Vehicles, Sleigh-runner attachment for. B. Fisch. No. 1,337,833; Apr. 20; v. 273; p. 538.
Vehicles, Steering device for motor-. F. Ellwein. No. 1,337,830; Apr. 20; v. 273; p. 537.
Vehicles, Suspension device for caterpillar-. E. Fuchs. No. 1,336,832; Apr. 13; v. 273; p. 274.
Vehicles, Theft-detecting means for. H. W. Irwin and W. K. Hawk. No. 1,336,745; Apr. 13; v. 273; p. 257.
Vehicles, Tire-carrying wheel for motor-. E. K. Baker. No. 1,336,337; Apr. 6; v. 273; p. 119.
Vehicles, Turning mechanism for motor-. J. Riviere. No. 1,335,856; Apr. 6; v. 273; p. 28.
Velocipede, Child's. W. Atkins. No. 1,336,879; Apr. 13; v. 273; p. 283.
Vending-machine. M. H. Harris. No. 1,336,743; Apr. 13; v. 273; p. 257.
Vending-machine. G. W. Miller. No. 1,336,478; Apr. 13; v. 273; p. 205.
Vending-machine. C. F. Richardson. No. 1,336,389; Apr. 6; v. 273; p. 129.
Ventilating means. S. A. Wellman. No. 1,335,948; Apr. 6; v. 273; p. 46.
Ventilator: *See*—
Window-ventilator.
Ventilator. S. F. McDonald. No. 1,336,470; Apr. 13; v. 273; p. 204.
Ventilator. J. C. Turvene. No. 1,337,296; Apr. 20; v. 273; p. 436.
Ventilator for light-projectors or lanterns. S. and J. W. Ewart and N. W. Prangnell. No. 1,337,832; Apr. 20; v. 273; p. 538.
Vessel. J. H. Schlueter. No. 1,336,866; Apr. 13; v. 273; p. 280.
Vessel-filling device. T. S. Bailey. No. 1,337,743; Apr. 20; v. 273; p. 521.
Vessel, Marine. J. Batorfy. No. 1,337,747; Apr. 20; v. 273; p. 522.
Vessel, Submarine. G. Dorffel. No. 1,336,287; Apr. 6; v. 273; p. 110.
Vessels, Apparatus for raising sunken. H. M. Meguerditchian. No. 1,337,250; Apr. 20; v. 273; p. 427.
Vessels, Protecting means for. A. Winton. No. 1,337,809; Apr. 20; v. 273; p. 533.
Vessels, Water-cooled valve for closing the funnels of submarine. H. E. Yarrow. No. 1,337,110; Apr. 13; v. 273; p. 327.
Vest. E. Calkins. No. 1,336,279; Apr. 6; v. 273; p. 108.
Vial-machine. H. F. Hagemeyer. No. 1,335,733; Apr. 6; v. 273; p. 6.
Vibrator. G. B. Pickop. No. 1,336,921; Apr. 13; v. 273; p. 291.
Vine-cutter. F. J. and C. T. Bossert. No. 1,338,281; Apr. 27; v. 273; p. 692.
Vine-cutter. G. L. McCready. No. 1,336,976; Apr. 13; v. 273; p. 301.

Violin-support. A. Lappalainen. No. 1,337,459; Apr. 20; v. 273; p. 467.
Violins, Peg-box cover for. F. M. Ashley. No. 1,336,409; Apr. 13; v. 273; p. 193.
Vise. R. Parmelee. No. 1,336,754; Apr. 13; v. 273; p. 259.
Vise. R. Parmelee. No. 1,336,755; Apr. 13; v. 273; p. 259.
Vise attachment. P. F. O'Shaughnessy. No. 1,336,087; Apr. 6; v. 273; p. 72.
Vises, Supplementary jaws for. G. W. Borchers. No. 1,336,610; Apr. 13; v. 273; p. 231.
Vulcanizer. A. A. Dorsey. No. 1,335,783; Apr. 6; v. 273; p. 16.
Vulcanizer. W. A. Gwynn. No. 1,336,220; Apr. 6; v. 273; p. 97.
Vulcanizer. E. D. Hostler. No. 1,338,569; Apr. 27; v. 273; p. 746.
Vulcanizer. A. B. Zwebell. No. 1,337,631; Apr. 20; v. 273; p. 499.
Vulcanizing-press detector. R. D. Whalley. No. 1,337,172; Apr. 13; v. 273; p. 338.
Waffle-iron. F. De Graff. No. 1,336,734; Apr. 13; v. 273; p. 255.
Wagon-brake. R. L. Haney. No. 1,336,956; Apr. 13; v. 273; p. 298.
Wagon-brake. J. S. Lockard. No. 1,336,909; Apr. 13; v. 273; p. 289.
Wagon-reach. J. S. Mack. No. 1,336,645; Apr. 13; v. 273; p. 237.
Wagon, Tower-. G. Schlatter. No. 1,337,487; Apr. 20; v. 273; p. 472.
Wagon-train. W. A. Underhill and C. C. Avery. No. 1,336,665; Apr. 13; v. 273; p. 241.
Wall-board size. B. W. Sidwell. No. 1,336,055; Apr. 6; v. 273; p. 66.
Wall-dashing. W. L. Hawley. No. 1,337,840; Apr. 20; v. 273; p. 539.
Wall structure. G. P. Youmans. No. 1,336,179; Apr. 6; v. 273; p. 90.
Wardrobe, Dust-proof and moth-proof. J. Rockett. No. 1,335,920; Apr. 6; v. 273; p. 41.
Wash-hanger. J. Trach. No. 1,338,266; Apr. 27; v. 273; p. 690.
Washer: *See*—
Clothes-washer. Lock-washer.
Glass-washer.
Washing-machine. R. Erich. No. 1,338,501; Apr. 27; v. 273; p. 734.
Washing-machine. H. C. Hirschy. No. 1,336,781; Apr. 13; v. 273; p. 264.
Washing-machine. W. B. Holliday. No. 1,338,442; Apr. 27; v. 273; p. 722.
Washing-machine. J. B. Kirby. No. 1,337,453; Apr. 20; v. 273; p. 466.
Washing-machine cylinders, Driving connection to. G. F. Freed. No. 1,337,552; Apr. 20; v. 273; p. 484.
Washing machine, Dish-. G. H. Myrick. No. 1,335,853; Apr. 6; v. 273; p. 28.
Washing-machines, Gearing for. G. More. No. 1,336,086; Apr. 6; v. 273; p. 72.
Washing-machines, Means for draining the oscillating cylinders of. J. L. Coffield. No. 1,338,172; Apr. 27; v. 273; p. 672.
Washing-machines, Operating device for. D. D. Rullman. No. 1,335,754; Apr. 6; v. 273; p. 10.
Washtub. E. B. Richmond. No. 1,337,272; Apr. 20; v. 273; p. 432.
Washtubs, Supporting-leg for. T. S. Casner. No. 1,337,997; Apr. 27; v. 273; p. 639.
Watch holder, Wrist-. E. Eisendecher. No. 1,338,563; Apr. 27; v. 273; p. 745.
Water-gage. E. Macneir. No. 1,335,904; Apr. 6; v. 273; p. 38.
Water-heater. M. H. Cowan. No. 1,338,447; Apr. 27; v. 273; p. 723.
Water-heater. C. E. Jeannotte. No. 1,337,473; Apr. 20; v. 273; p. 469.
Water-heater. C. P. Wadley. No. 1,338,055; Apr. 27; v. 273; p. 650.
Water-heater, Electric. W. F. Cutler. No. 1,337,120; Apr. 13; v. 273; p. 329.
Water-heater, Gas. D. W. Allman. No. 1,336,937; Apr. 13; v. 273; p. 294.
Water-mixer. S. K. Ouzoun-Boghossian. No. 1,336,917; Apr. 13; v. 273; p. 290.
Water stage and discharge recorder. E. Schaub. No. 1,336,090; Apr. 6; v. 273; p. 73.
Water-supply apparatus, Carbonated-. L. Caul. No. 1,335,874; Apr. 6; v. 273; p. 32.
Water through hose, Means for controlling the flow of. C. J. Maier. No. 1,337,247; Apr. 20; v. 273; p. 427.
Water-tube boiler. H. O. Baker. No. 1,336,714; Apr. 13; v. 273; p. 251.
Watering bowl, Stock-. F. H. Bogda. No. 1,337,636; Apr. 20; v. 273; p. 500.
Watering tank, Stock-. F. G. Johnson. No. 1,337,075; Apr. 13; v. 273; p. 321.
Wave form, Producing currents of desired. H. J. Van der Bijl. No. 1,337,737; Apr. 20; v. 273; p. 520.
Wave or tide motor. F. G. Peck. No. 1,338,326; Apr. 27; v. 273; p. 701.
Weather-strip. F. A. Dillingham. No. 1,337,394; Apr. 20; v. 273; p. 455.
Weather-strip. C. H. Stark. No. 1,338,403; Apr. 27; v. 273; p. 715.
Weed-cutter. W. F. Kasper. No. 1,337,655; Apr. 20; v. 273; p. 504.
Weed-destroyer and ground-sterilizer. J. W. Nicholson and C. Fowler. No. 1,337,562; Apr. 20; v. 273; p. 486.
Weeder, Adjustable. J. Gilson, Sr. No. 1,336,623; Apr. 13; v. 273; p. 232.
Weeder and cultivator. H. K. Wolfe. No. 1,338,204; Apr. 27; v. 273; p. 678.
Weeder, Rotary-rod. G. H. Wolfe. No. 1,338,203; Apr. 27; v. 273; p. 678.
Weeder, Rotary-rod. L. C. Van Patten. No. 1,338,200; Apr. 27; v. 273; p. 677.
Weeder, Rotary-rod. L. C. Van Patten. No. 1,338,201; Apr. 27; v. 273; p. 677.
Weeding machine. A. E. Piper. No. 1,337,721; Apr. 20; v. 273; p. 517.
Weft-carrier-replacing device. C. S. Wright. No. 1,337,[illegible]8; Apr. 20; v. 273; p. 509.
Weighing device, Automatic. R. Leumann. No. 1,336,705; Apr. 13; v. 273; p. 249.
Weighing-machine, Automatic. W. H. Vickers and C. E. Hancock. No. 1,338,538; Apr. 27; v. 273; p. 740.
Weighing-machines, Closing device for the material receptacles of automatic. J. Lambertz. No. 1,337,842, Apr. 20; v. 273; p. 540.
Welded joint and welding. L. P. Patterson. No. 1,337,023; Apr. 13; v. 273; p. 310.
Welding apparatus. W. J. Buckley. No. 1,335,873; Apr. 6; v. 273; p. 31.
Welding apparatus, Autogenous-. A. Saulze. No. 1,335,922; Apr. 6; v. 273; p. 41.
Welding apparatus, Electric. R. P. La Porte. No. 1,337,6[illegible]; Apr. 20; v. 273; p. 505.
Welding, Electrical-arc. J. Churchward. No. 1,335,875; Apr. 6; v. 273; p. 32.
Welding, Metallic-arc. J. Churchward. No. 1,337,543; Apr. 20; v. 273; p. 483.
Well-boring, Fishing-tool for use in. H. S. Cairns. No. 1,336,815; Apr. 13; v. 273; p. 270.
Well-drilling device. J. D. Morrison. No. 1,338,460; Apr. 27; v. 273; p. 726.
Well-drilling machines, Gearing for use in oil-. H. J. Lockhart. No. 1,338,455; Apr. 27; v. 273; p. 725.
Well-screen. L. F. Layne. No. 1,335,975; Apr. 6; v. 273; p. 51.
Wells, Device for taking samples from. R. D. Dodds. No. 1,335,880; Apr. 6; v. 273; p. 33.
Wells, Torpedo for shooting oil-. J. A. Fryer and W. W. Wallace. No. 1,337,063; Apr. 13; v. 273; p. 318.
Wellpacker. H. W. Fletcher. No. 1,336,738; Apr. 13; v. 273; p. 256.
Wheel: *See*—
Car-wheel. Steering-wheel.
Detachable wheel. Traction-wheel.
Metal wheel. Tractor-wheel.
Non-skid wheel. Vehicle-wheel.
Resilient wheel. Wire wheel.
Spring-wheel.
Wheel. J. W. Williams. No. 1,337,869; Apr. 20; v. 273; p. 545.
Wheel filler unit, Laminated. M. W. Mix. No. 1,336,254; Apr. 6; v. 273; p. 104.
Wheel-hub and forming shoe. J. R. Winter. No. 1,337,808; Apr. 20; v. 273; p. 533.
Wheel-rims, Sectional. M. V. and L. M. Endres. No. 1,337,446; Apr. 20; v. 273; p. 464.
Wheel with demountable rim, Vehicle-. J. C. Manternach. No. 1,336,531; Apr. 13; v. 273; p. 215.
Wheels, Air-valve hand-hole plate for disk. L. B. Harvey. No. 1,338,177; Apr. 27; v. 273; p. 673.
Wheels, Demountable rim and lock therefor for. R. R. Craft. No. 1,338,072; Apr. 27; v. 273; p. 653.
Wheels, Demountable rim for motor-truck. R. H. Blanton and H. L. Hooper. No. 1,338,208; Apr. 27; v. 273; p. 679.
Wheels, Plunger-rod for spring-. J. L. Harden. No. 1,337,068; Apr. 13; v. 273; p. 319.
Wheels, Producing. J. A. Anglada. No. 1,336,333; Apr. 6; v. 273; p. 119.
Wheels, Producing metal. J. A. Anglada. No. 1,336,332; Apr. 6; v. 273; p. 118.
Wheels, Spring-tire for vehicle-. C. Drabek. No. 1,337,445; Apr. 20; v. 273; p. 464.
Whip-socket. R. F. Doll. No. 1,336,948; Apr. 13; v. 273; p. 296.
Wind instruments, Key mechanism for wood. A. Loomis. No. 1,336,359; Apr. 6; v. 273; p. 124.
Windmill-gearing. G. W. Roberts. No. 1,336,758; Apr. 13; v. 273; p. 259.
Windmills, Electric-generator attachment for. V. L. Sullivan. No. 1,336,544; Apr. 13; v. 273; p. 218.
Windshield and hinge therefor. C. P. Chamberlain. No. 1,338,487; Apr. 27; v. 273; p. 731.
Windshield-holder. J. Erret. No. 1,338,004; Apr. 27; v. 273; p. 640.
Windshield screen. W. B. Herbst. No. 1,337,472; Apr. 20; v. 273; p. 469.
Winding-machine. E. H. Ryon. No. 1,337,727; Apr. 20; v. 273; p. 518.
Winding mechanism, Film-. R. Kroedel. No. 1,335,742; Apr. 6; v. 273; p. 7.
Windlass, Automobile-. M. A. Davis. No. 1,337,754; Apr. 20; v. 273; p. 524.

Window attachment. J. B. Clermont. No. 1,338,488; Apr. 27; v. 273; p. 731.
Window-cleaning attachment. F. V. Bank. No. 1,336,672; Apr. 13; v. 273; p. 243.
Window-cleaning device. T. J. Derry. No. 1,338,002; Apr. 27; v. 273; p. 640.
Window-lock. R. Bellinger. No. 1,338,416; Apr. 27; v. 273; p. 718.
Window-lock. F. Haldeman. No. 1,337,513; Apr. 20; v. 273; p. 477.
Window-locking device. C. R. Talbert. No. 1,338,339; Apr. 27; v. 273; p. 704.
Window, Pocket-. E. H. Lunken. No. 1,336,145; Apr. 6; v. 273; p. 84.
Window-rattling stop. A. S. Peterson. No. 1,336,045; Apr. 6; v. 273; p. 65.
Window-regulators, Controlling mechanism for. L. T. Bulley. No. 1,338,485; Apr. 27; v. 273; p. 731.
Window-screen, Adjustable. J. A. S. Simone. No. 1,336,101; Apr. 6; v. 273; p. 75.
Window-stop. C. O. Bloomquist. No. 1,336,274; Apr. 6; v. 273; p. 107.
Window-support. W. A. Henderson. No. 1,338,445; Apr. 27; v. 273; p. 723.
Window-ventilator, Automatic. V. M. Allen. No. 1,335,929; Apr. 6; v. 273; p. 42.
Windows, sashes, shutters, Actuating mechanism for. A. D. Kumpf. No. 1,337,776. Apr. 20; v. 273; p. 527.
Wire, Apparatus for drawing and straightening. C. O. Johnson. No. 1,338,453; Apr. 27; v. 273; p. 724.
Wire-blank-cutting apparatus, Automatic. J. Becker. No. 1,336,605; Apr. 13; v. 273; p. 230.
Wire cloth, Making canvas-. A. Dreyling and W. C. Locke. No. 1,337,053; Apr. 13; v. 273; p. 317.
Wire fabric. W. J. Pine. No. 1,336,154; Apr. 6; v. 273; p. 85.
Wire-fabric machine. H. W. Bloemker. No. 1,337,504; Apr. 20; v. 273; p. 476.
Wire-fence shield. M. L. Davis. No. 1,336,205; Apr. 6; v. 273; p. 95.
Wire for making chains and other articles of jewelry. R. Trunk. No. 1,336,449; Apr. 13; v. 273; p. 200.
Wire-rope clamp. C. A. Wolfe. No. 1,338,062; Apr. 27; v. 273; p. 651.
Wire-stretcher. S. C. Reppe. No. 1,337,159; Apr. 13; v. 273; p. 336.
Wire stretcher and winder. A. C. Lemke and L. L. Almeter. No. 1,337,142; Apr. 13; v. 273; p. 333.
Wire, Stretching and securing. T. H. Coulter. No. 1,338,425; Apr. 27; v. 273; p. 719.
Wire-twisting machine. R. J. Rice. No. 1,336,159; Apr. 6; v. 273; p. 86.
Wire wheel. W. E. Williams. No. 1,338,410; Apr. 27; v. 273; p. 716.
Wire-wheel rim and making. F. R. Klaus. No. 1,336,965; Apr. 13; v. 273; p. 299.
Wire wrapping and winding machine. E. T. Musson. No. 1,336,649; Apr. 13; v. 273; p. 238.
Wood distillation. C. T. Clark. No. 1,337,342; Apr. 20; v. 273; p. 445.
Woodworking-machine. R. D. Emery. No. 1,337,695; Apr. 20; v. 273; p. 512.
Work-holder. C. Hoddle. No. 1,336,229; Apr. 6; v. 273; p. 99.
Work-holding device. A. R. J. Wilkinson. No. 1,337,677 Apr. 20; v. 273; p. 508.
Work-support. E. H. Bastable. No. 1,337,190; Apr. 20; v. 273; p. 416.
Workbench, crane, and engine-stand combined. J. M. Mattis. No. 1,337,847; Apr. 20; v. 273; p. 541.
Worm-drive. G. Dorfeld. No. 1,336,286; Apr. 6; v. 273; p. 110.
Wrapping, cartoning, and packing machine. T. E. Hecter. No. 1,336,838; Apr. 13; v. 273; p. 275.
Wrapping-machine. E. D. Anderson. No. 1,336,549; Apr. 13; v. 273; p. 219.
Wrench: *See*—
Monkey-wrench. Ratchet-wrench.
Pipe-wrench.
Wrench. E. Blum. No. 1,338,278; Apr. 27; v. 273; p. 692.
Wrench. D. Fornirasco. No. 1,337,550; Apr. 20; v. 273; p. 484.
Wrench. W. Loeven. No. 1,338,313; Apr. 27; v. 273; p. 698.
Wrench. S. Stepanian. No. 1,336,794; Apr. 13; v. 273; p. 267.
Wrench. W. L. Stover. No. 1,337,102; Apr. 13; v. 273; p. 325.
Wrench. J. H. Williams. No. 1,337,678; Apr. 20; v. 273; p. 508.
Wrench. W. W. Woodward. No. 1,336,460; Apr. 13; v. 273; p. 202.
Wrench attachment. L. A. Banta. No. 1,338,549; Apr. 27; v. 273; p. 742.
Wringer: *See*—
Clothes-wringer.
Wringer attachment. L. F. Doellinger. No. 1,335,957; Apr. 6; v. 273; p. 48.
Writing, Device for mechanically aiding the hand in. W. J. Henry. No. 1,336,432; Apr. 13; v. 273; p. 197.
X-ray transformer. W. D. Coolidge. No. 1,337,885; Apr. 20; v. 273; p. 548.
X-ray tube-stand and table. E. E. Greville. No. 1,337,9[illegible]; Apr. 20; v. 273; p. 552.
X-rays, Method of and apparatus for producing. C. D. Ehret. No. 1,337,349; Apr. 20; v. 273; p. 447.
Yarn and fabric and producing. A. G. Fromuth. No. 1,336,516; Apr. 13; v. 273; p. 213.
Yarn-chain trumpet. A. E. Rhoades. No. 1,338,329; Apr. 27; v. 273; p. 702.
Yarn in the form of hanks, skeins, or the like, Dyeing, washing, and similarly treating. J. Annica. No. 1,337,877; Apr. 20; v. 273; p. 547.
Yarn-speck remover. W. F. Moon. No. 1,336,148; Apr. 6; v. 273; p. 84.
Zinc solutions, Purification of. S. Field. No. 1,337,058; Apr. 13; v. 273; p. 318.
Zinc solutions, Purification of. H. L. Sulman and S. Field. No. 1,336,386; Apr. 6; v. 273; p. 129.

ALPHABETICAL LIST OF DESIGNS.

Airship-body. C. W. Manzel. No. 54,947; Apr. 20; v. 273; p. 580.
Art-panel, banner, or flag, Embroidered. M. J. Gordon. Nos. 54,909–10; Apr. 20; v. 273; p. 573.
Article of manufacture. E. Ericson. No. 54,905; Apr. 20; v. 273; p. 573.
Article of manufacture. G. M. Fauser. No. 54,906; Apr. 20; v. 273; p. 573.
Article of manufacture—namely, screen for sound-outlets of graphophones. W. A. Sommerhof. Nos. 54,968–9; Apr. 20; v. 273; p. 583.
Automobile. R. Booth. No. 54,830; Apr. 13; v. 273; p. 342.
Band or article of similar nature, Wrapping-. H. B. Duane. No. 54,836; Apr. 13; v. 273; p. 343.
Banner. E. M. Martin. No. 54,948; Apr. 20; v. 273; p. 580.
Bathing-cap or similar article. F. W. Dodge. Nos. 54,900–1; Apr. 30; v. 273; p. 572.
Bed-pan, Douche. V. Loewenberg. No. 54,856; Apr. 13; v. 273; p. 347.
Blouse, Woman's. A. H. Flanders. Nos. 54,837–9; Apr. 13; v. 273; p. 344.
Bodice. R. Krauziewicz. No. 54,932; Apr. 20; v. 273; p. 577.
Bolt for window-frames, Head for a. W. W. Sleight. No. 54,964; Apr. 20; v. 273; p. 583.
Boot, High. F. G. Chamberlin. No. 54,895; Apr. 20; v. 273; p. 571.
Bottle. J. Morrison. No. 54,977; Apr. 20; v. 273; p. 585
Bottle or jug. C. H. Dayton. No. 54,834; Apr. 13; v. 273; p. 343.
Bowl. T. G. Jones. No. 54,830; Apr. 13; v. 273; p. 346.
Bracelet, Watch-. A. Levin and J. Medin. No. 54,936; Apr. 20; v. 273; p. 578.
Brush, Eyebrow-. J. A. Campbell. No. 54,815; Apr. 6; v. 273; p. 135.
Buckle, Belt-. L. W. Shields. Nos. 54,930–2; Apr. 27; v. 273; p. 766.
Burner support, Gaseous-fuel-. H. McKinnie. No. 54,949; Apr. 20; v. 273; p. 580.
Button, badge, watch-charm, or locket. W. N. Best. No. 54,978; Apr. 27; v. 273; p. 764.
Cabinet for talking-machines. E. T. Kieffer. Nos. 54,928–9; Apr. 20; v. 273; pp. 576–7.
Cabinet, Newspaper-vending. O. J. Hotaling. No. 54,841; Apr. 13; v. 273; p. 344.
Cabinet, Phonograph-. M. Davis. No. 54,982; Apr. 27; v. 273; p. 765.
Cabinet, Phonograph-. O. Elison. No. 54,904; Apr. 20; v. 273; p. 572.
Cabinet, Phonograph-. W. A. Mangless. No. 54,857; Apr. 13; v. 273; p. 347.
Cabinet, Phonograph-. W. A. Mangless. Nos. 54,895–6; Apr. 27; v. 273; p. 765.
Cabinet, Phonograph-. W. A. Mangless. Nos. 54,945–6; Apr. 20; v. 273; p. 580.
Cabinet, Phonograph-. C. Y. Nellis. No. 54,988; Apr. 27; v. 273; p. 766.
Cabinet, Phonograph-. W. H. Thommen. Nos. 54,993–55,000; Apr. 27; v. 273; p. 766–8.
Cabinet, Phonograph-. J. Wolff. No. 55,001; Apr. 27; v. 273; p. 768.
Cabinet, Phonograph-. D. Zork. Nos. 55,003–8; Apr. 27; v. 273; p. 769–70.
Cabinet, Sewing-machine. W. C. Free. No. 54,840; Apr. 13; v. 273; p. 344.
Cabinet, Sterilizing-. E. C. Booth. No. 54,829; Apr. 13; v. 273; p. 342.
Casserole or baking-dish and cover, Glass. R. Haley. No. 54,914; Apr. 20; v. 273; p. 574.
Chair. E. E. Rewick. No. 54,863; Apr. 13; v. 273; p. 348.

China tableware article. C. Firth. No. 54,907; Apr. 20; v. 273; p. 573.
Cigarette-case. F. H. Blackmarr. No. 54,979; Apr. 27; v. 273; p. 764.
Collar holder, Gentleman's soft-. K. Staufenbell. No. 54,873; Apr. 13; v. 273; p. 350.
Container. J. C. Morrison. No. 54,951; Apr. 20; v. 273; p. 581.
Container, Toilet-powder and jewelry. H. T. Clodfelter. No. 54,833; Apr. 13; v. 273; p. 343.
Dish. D. G. Norman. No. 54,954; Apr. 20; v. 273; p. 581.
Dish, Covered. E. J. Johnson. No. 54,849; Apr. 13; v. 273; p. 346.
Dish or similar article. E. J. Ridgeway. Nos. 54,957–9; Apr. 20; v. 273; p. 582.
Dish, Transparent cooking-. W. Churchill. Nos. 54,898–9; Apr. 20; v. 273; p. 572.
Dispensing-receptacle. R. R. Smith. No. 54,871; Apr. 13; v. 273; p. 350.
Display-rack. B. E. Willett. No. 54,883; Apr. 13; v. 273; p. 352.
Doll. A. Hermelin. No. 54,919; Apr. 20; v. 273; p. 575.
Doll. J. W. MacBoyle. No. 54,939; Apr. 20; v. 273; p. 578.
Doll figure. F. O. Brockman. No. 54,888; Apr. 20; v. 273; p. 570.
Dresser. E. E. Rewick. No. 54,864; Apr. 13; v. 273; p. 349.
Dustpan. N. Brulé. No. 54,891; Apr. 20; v. 273; p. 570.
Electric generating unit. H. D. Shamberg. No. 54,868; Apr. 13; v. 273; p. 349.
Fan and lamp, Combined electric. T. E. Clark. No. 54,832; Apr. 13; v. 273; p. 343.
Fastener. W. A. Schuler. No. 54,961; Apr. 20; v. 273; p. 582.
Faucet, Self-closing. H. Jarvis. No. 54,847; Apr. 13; v. 273; p. 346.
Flag, Christian-service. A. G. Trimble. No. 54,972; Apr. 20; v. 273; p. 584.
Flag-holder. H. K. Lorentzen. No. 54,937; Apr. 20; v. 273; p. 578.
Game. J. Haro. No. 54,915; Apr. 20; v. 273; p. 574.
Game-board. J. F. Toohey. No. 54,877; Apr. 13; v. 273; p. 351.
Garment-hanger. H. E. Schneider. No. 54,960; Apr. 20; v. 273; p. 582.
Gas-burner. A. J. Johnson. No. 54,848; Apr. 13; v. 273; p. 346.
Gas-burner. H. E. Kerr. No. 54,851; Apr. 13; v. 273; p. 346.
Gas-burner. H. E. Kerr and W. J. Barber. No. 54,852; Apr. 13; v. 273; p. 347.
Gem-mounting. C. T. Wittstein. No. 54,976; Apr. 20; v. 273; p. 585.
Glass, Sheet-. E. G. Johanson. No. 54,925; Apr. 20; v. 273; p. 576.
Glassware article. C. P. Sollmann. No. 54,967; Apr. 20; v. 273; p. 583.
Goblet. A. F. Saunders. No. 54,866; Apr. 13; v. 273; p. 349.
Hair-clippers, Handle for. W. J. Van Osdel. No. 54,861; Apr. 16; v. 273; p. 348.
Harp. D. Campbell. Nos. 54,892–3; Apr. 20; v. 273; pp. 570–1.
Headlight-bracket. J. L. P. Landry. No. 54,935; Apr. 20; v. 273; p. 578.
Heater, Electric. F. C. Boyd. No. 54,887; Apr. 20; v. 273; p. 570.
Heater, Electric. E. N. Brown. Nos. 54,889–90; Apr. 20; v. 273; p. 570.
Heater, Electric. S. M. Knapp. No. 54,930; Apr. 20; v. 273; p. 577.
Heel for a boot, shoe, or similar article. O. G. Lyon. No. 54,938; Apr. 20; v. 273; p. 578.
Heel, Rubber. T. Nicar. No. 54,859; Apr. 13; v. 273; p. 348.
Ice-cream dish. A. F. Saunders. No. 54,867; Apr. 13; v. 273; p. 349.
Ice-cream-service container, Individual. J. P. Reily. No. 54,956; Apr. 20; v. 273; p. 581.
Inhaler. E. H. Metcalf. No. 54,987; Apr. 27; v. 273; p. 765.
Inkstand. F. M. Ashley. No. 54,824; Apr. 13; v. 273; p. 341.
Jar, Casing for a vacuum-insulated. G. P. Altenberg. No. 54,884; Apr. 20; v. 273; p. 569.
Lace. E. A. Davis. No. 54,816; Apr. 6; v. 273; p. 135.
Lace. W. K. Kallman. Nos. 54,817–20; Apr. 6; v. 273; pp. 135–6.
Lace. F. Meyer. Nos. 54,821–2; Apr. 6; v. 273; p. 136.
Lamp. L. J. Ripich. No. 54,865; Apr. 13; v. 273; p. 349.
Lamp-front frame. W. F. Anklam. No. 54,823; Apr. 13; v. 273; p. 341.
Lamps, Glass cover-plate for headlight. C. J. Newburgh. No. 54,858; Apr. 13; v. 273; p. 348.
Legging. F. G. Chamberlin. No. 54,896; Apr. 20; v. 273; p. 571.
Light. O. C. Newton. No. 54,952; Apr. 20; v. 273; p. 581.
Lighting-fixture arm. G. Westphal. No. 54,881; Apr. 13; v. 273; p. 351.
Magneto-electric-machine armature. A. H. Bartsch. No. 54,827; Apr. 13; v. 273; p. 342.
Measuring instrument, Portable electrical. A. H. Hoyt. No. 54,843; Apr. 13; v. 273; p. 345.
Moccasin. L. Charest. No. 54,897; Apr. 20; v. 273; p. 571.
Monument. F. A. Grearson. No. 54,911; Apr. 20; v. 273; p. 574.
Nail-set. G. O. Carlson. No. 54,894; Apr. 20; v. 273; p. 571.
Necktie. W. D. Niederer. No. 54,953; Apr. 20; v. 273; p. 581.
Oil-can. F. D. Gatchell. No. 54,983; Apr. 27; v. 273; p. 765.
Padlock. E. B. Stone. No. 54,874; Apr. 13; v. 273; p. 350.
Pin. L. D. Hackett. No. 54,913; Apr. 20; v. 273; p. 574.
Pincushion. J. La Croix. No. 54,934; Apr. 20; v. 273; p. 577.
Pincushion. C. Lafitte. No. 54,853; Apr. 13; v. 273; p. 347.
Phonograph and lamp-standard, Combination. P. R. Gonsky. No. 54,984; Apr. 27; v. 273; p. 765.
Pipe, Tobacco-. P. F. Campbell. No. 54,831; Apr. 13; v. 273; p. 343.
Plate, Fiber. L. D. Jacoby. No. 54,846; Apr. 13; v. 273; p. 345.
Powder-can or similar receptacle. C. S. Humphrey. No. 54,923; Apr. 20; v. 273; p. 576.
Powder-container. C. S. Humphrey. No. 54,922; Apr. 20; v. 273; p. 575.
Powder-container or similar receptacle. C. S. Humphrey. No. 54,924; Apr. 20; v. 273; p. 576.
Pump-handle. R. Sidel. No. 54,869; Apr. 13; v. 273; p. 349.
Push-button. C. J. Schwarze. No. 54,962; Apr. 20; v. 273; p. 582.
Radiator casing, Automobile-. G. G. Behn. No. 54,828; Apr. 13; v. 273; p. 342.
Rake, Garden-. I. Tsuchiya. No. 54,878; Apr. 13; v. 273; p. 351.
Receptacle for toilet powders and other salable commodities. C. S. Humphrey. No. 54,845; Apr. 13; v. 273; p. 345.
Ring, Wedding-. C. L. Trout. Nos. 54,973–4; Apr. 20; v. 273; p. 584.
Rocking-horse. J. Van Wuyckhuyse. No. 54,879; Apr. 13; v. 273; p. 351.
Roll, matrix, die, or similar article. L. T. Bartlett. No. 54,826; Apr. 13; v. 273; p. 342.
Rubber ball. R. C. Eddy. No. 54,903; Apr. 20; v. 273; p. 572.
Rug, Grass. O. T. Waite. No. 54,880; Apr. 13; v. 273; p 351.
Salt and pepper basket. R. E. Harris and R. L. Chance. No. 54,916; Apr. 20; v. 273; p. 916.
Seat and table, Combined. W. L. White. No. 54,882; Apr. 13; v. 273; p. 352.
Shingle-simulating strip. O. A. Heppes. No. 54,919; Apr. 20; v. 273; p. 575.
Shirt. C. L. Talbot. No. 54,970; Apr. 20; v. 273; p. 584.
Sight-feed for oil-pipe. W. A. Rarig. No. 54,862; Apr. 13; v. 273; p. 348.
Signpost. R. C. Tilghman. No. 54,876; Apr. 13; v. 273; p. 351.
Spoon. T. B. Lashar. No. 54,854; Apr. 13; v. 273; p. 347.
Spoon or similar article. F. R. Woodward. No. 55,002; Apr. 27; v. 273; p. 769.
Statuette. F. A. Koch. No. 54,931; Apr. 20; v. 273; p. 577.
Steam-distributer and baster for cooking apparatus. A. M. Demuth. No. 54,835; Apr. 13; v. 273; p. 343.
Store-front. M. Gillette. No. 54,908; Apr. 20; v. 273; p. 573.
Talking-machines. R. L. Poe. No. 54,989; Apr. 27; v. 273; p. 766.
Telephone-support, Substation. E. A. Bohlman. No. 54,886; Apr. 20; v. 273; p. 569.
Time-table, advertising-board, and clock, Combined. J. L. Kahles. No. 54,927; Apr. 20; v. 273; p. 576.
Timepiece-dial. H. S. Montgomery. No. 54,950; Apr. 20; v. 273; p. 580.
Tire. W. H. Grote. No. 54,912; Apr. 20; v. 273; p. 574.
Tire-cover. P. M. Lockwood. No. 54,855; Apr. 13; v. 273; p. 347.
Tire, Automobile-. P. P. Parker. No. 54,955; Apr. 20; v. 273; p. 581.
Tire, Elastic vehicle-. G. P. Hoffman. Nos. 54,919–21; Apr. 20; v. 273; p. 575.
Tire, Rubber. E. G. Hulse. No. 54,844; Apr. 13; v. 273; p. 345.
Tire-tread. C. J. Venn. No. 54,975; Apr. 20; v. 273; p. 584.
Tool, Combination-. J. Barnes. No. 54,825; Apr. 13; v. 273; p. 342.
Tooth cleaning and polishing device. G. O. Burlew. No. 54,980; Apr. 27; v. 273; p. 764.
Toy. I. Dunbar and F. Norris. No. 54,902; Apr. 20; v. 273; p. 572.
Toy. M. E. Shugg. No. 54,963; Apr. 20; v. 273; p. 582.
Toy aeroplane. C. W. Bennett. No. 54,885; Apr. 20; v. 273; p. 569.
Toy aeroplane. L. B. Nicholas. No. 54,860; Apr. 13; v. 273; p. 348.

Toy animal. L. S. Malone. Nos. 54,940–2; Apr. 20; v. 273; p. 578.
Toy bird. L. S. Malone. Nos. 54,943–4; Apr. 20; v. 273; p. 579.
Toy car. F. R. Baier. No. 55,009–12; Apr. 27; v. 273; p. 770.
Toy vehicle. A. H. Stamm. No. 54,872; Apr. 13; v. 273; p. 350.
Toy vehicle, Child's. R. F. Kuns. No. 54,933; Apr. 20; v. 273; p. 577.
Tray, Combination dinner-. J. H. Thompson. No. 54,971; Apr. 20; v. 273; p. 584.
Vase. T. G. Jones. No. 54,926; Apr. 20; v. 273; p. 576.
Vehicle-body. J. Silverstein. No. 54,870; Apr. 13; v. 273; p. 350.
Washing-machine. W. K. Howe. No. 54,842; Apr. 13; v. 273; p. 345.
Watch-movements, Bridge-plate for. C. F. Colomb. No. 54,981; Apr. 27; v. 273; p. 764.
Window-frame holdfast. W. W. Sleight. Nos. 54,965–6; Apr. 20; v. 273; p. 583.
X-ray dental apparatus, Cabinet for. W. H. Thwaites. No. 54,875; Apr. 13; v. 273; p. 350.

ALPHABETICAL LIST OF TRADE-MARKS.

Aeroplanes and parts, air-screws, &c. A. V. Roe & Co., Ltd. No. 130,395; Apr. 20; v. 273; p. 623.
Agricultural machinery. Massey-Harris Harvester Co. No. 130,361; Apr. 20; v. 273; p. 622.
Aircraft, Aircraft-seats, cover-clips, &c., for. A. V. Roe & Co. No. 130,231; Apr. 13; v. 273; p. 403.
Aircraft, Automatic. G. L. Martin. No. 130,210; Apr. 13; v. 273; p. 403.
Alloys, Light-metal. Light Metals Co. No. 130,539; Apr. 27; v. 273; p. 803.
Aprons, overalls, &c., Shop-. Spartan Manufacturing Company. No. 130,579; Apr. 27; v. 273; p. 805.
Asphalt roofings. McKee, Hodshon & Co. No. 130,541; Apr. 27; v. 273; p. 803.
Automobile accessories. Joseph N. Smith & Company. No. 130,578; Apr. 27; v. 273; p. 804.
Automobile-cars and motor-trucks. Abbott Corporation. No. 130,452; Apr. 27; v. 273; p. 801.
Automobile specialties. Morgan Manufacturing Co. No. 130,552; Apr. 27; v. 273; p. 804.
Automobile-steering-post-locking devices. Russell Sales Co. No. 130,398; Apr. 20; v. 273; p. 623.
Automobiles and automobile-bodies. Noma Motor Corporation. No. 130,377; Apr. 20; v. 273; p. 622.
Automobiles and motor-trucks. Camden Motors Corporation. No. 130,471; Apr. 27; v. 273; p. 801.
Automobiles and motor-trucks. José Cunill de Figuerola. No. 130,288; Apr. 20; v. 273; p. 620.
Automobiles, motor-trucks, &c. Southern Motor Manufacturing Association. No. 130,114; Apr. 6; v. 273; p. 181.
Bacteriological culture. T. A. Walsh. No. 130,245; Apr. 13; v. 273; p. 404.
Bags, Coal-. Dafoe-Eustice Company. No. 130,057; Apr. 6; v. 273; p. 180.
Balls of brass or other metal, Hollow balanced. Draper Manufacturing Company. No. 130,487; Apr. 27; v. 273; p. 802.
Bandage, Catamenial. G. C. Levy. No. 130,086; Apr. 6; v. 273; p. 180.
Bath-room fixtures. Bay Ridge Specialty Co. No. 130,152; Apr. 13; v. 273; p. 401.
Batteries, Storage. Franklin Storage Battery Co. No. 130,296; Apr. 20; v. 273; p. 620.
Batteries, Storage. Yankee Battery Manufacturing Company. No. 130,449; Apr. 20; v. 273; p. 624.
Bearing metal, Babbitt. Great Western Smelting & Refining Company. No. 130,505; Apr. 27; v. 273; p. 802.
Bearing metals, Antifriction. Union Smelting & Refining Co. No. 130,586; Apr. 27; v. 273; p. 805.
Bearings for moving parts of machines. Massachusetts Oilless Bearings Company. Nos. 130,359–60; Apr. 20; v. 273; p. 622.
Beef, Corned. Libby, McNeill & Libby. No. 130,203; Belting, hose, machinery packing. Imperial Belting Company. No. 130,192; Apr. 13; v. 273; p. 402. Apr. 13; v. 273; p. 403.
Belts and narrow binding for garments, belts for supporting garments, &c., Narrow. Hope Webbing Company. Nos. 130,517–21; Apr. 27; v. 273; p. 803.
Belts, aprons, and gum-tissue, Sanitary. Omo Mfg. Co. Nos. 130,097–8; Apr. 6; v. 273; p. 181.
Belts, Binding, textile braiding, and tape. Hope Webbing Company. Nos. 130,186–90; Apr. 13; v. 273; p. 402.
Beverage. Jacob Ries Bottling Works. No. 130,229; Apr. 13; v. 273; p. 403.
Beverage and syrup for making same, Non-alcoholic. Brainol Manufacturing Co. No. 130,043; Apr. 6; v. 273; p. 179.
Beverage, Malt. Centlivre Beverage Co. No. 130,163; Apr. 13; v. 273; p. 401.
Beverage, Non-alcoholic maltless. E. H. Campbell. No. 130,357; Apr. 6; v. 273; p. 179.
Beverage, Non-intoxicating. Buckeye Brewing Co. No. 130,159; Apr. 13; v. 273; p. 401.
Beverage, Non-intoxicating. Fred Miller Brewing Co. No. 130,213; Apr. 13; v. 273; p. 403.
Beverage, Non-intoxicating carbonated. G. L. Becker. No. 130,153; Apr. 13; v. 273; p. 401.
Beverages. Jacob Ries Bottling Works. No. 130,563; Apr. 27; v. 273; p. 804.
Beverages, Non-alcoholic. Schoenhofen Company. No. 130,572; Apr. 27; v. 273; p. 804.
Beverages, Non-alcoholic. M. Winter. No. 130,250; Apr. 13; v. 273; p. 404.
Beverages, Non-alcoholic fruit. Monopole Vineyards Corporation. No. 130,214; Apr. 13; v. 273; p. 403.
Beverages, syrup, &c., Non-alcoholic. Schoenhofen Company. No. 130,573; Apr. 27; v. 273; p. 804.
Beverages, syrups, colors, and flavors, Non-alcoholic. Whittle & Mutch. No. 130,247; Apr. 13; v. 273; p. 404.
Billiard-balls. Brunswick-Balke-Collender Company. No. 130,044; Apr. 6; v. 273; p. 179.
Binoculars, field and opera glasses, &c. California Optical Company. No. 130,470; Apr. 27; v. 273; p. 801.
Bloomers, Gymnasium-. J. Pfrenger Sons. No. 130,386; Apr. 20; v. 273; p. 623.
Boilers, Steam-. Mears Brothers Mfg. Co. No. 130,211; Apr. 13; v. 273; p. 403.
Boots and shoes. Griggs-Paxton Shoe Co. No. 130,506; Apr. 27; v. 273; p. 802.
Boots and shoes, Men's and women's. Richards & Brennan Co. No. 130,562; Apr. 27; v. 273; p. 804.
Boots and shoes of leather skins, hides, &c. Huntington Shoe and Leather Company. No. 130,320; Apr. 20; v. 273; p. 621.
Boots, shoes, slippers, and sandals, Leather. Wm. Kaut Footwear Company. No. 130,528; Apr. 27; v. 273; p. 803.
Braids, Alsatian. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 130,175–6; Apr. 13; v. 273; p. 402.
Bread. Henry Blewett & Son. No. 130,156; Apr. 13; v. 273; p. 401.
Bridges, telegraph and telephone poles and parts, &c., Metal. American Steel Export Company. No. 130,028; Apr. 6; v. 273; p. 179.
Brooms. Pioneer Broom Company. No. 130,103; Apr. 6; v. 273; p. 181.
Brooms, Bridles for. Johnson, McGarr & Warren. No. 130,193; Apr. 13; v. 273; p. 402.
Brooms, Corn. H. F. Cook. No. 130,054; Apr. 6; v. 273; p. 180.
Brushes, Paint and varnish. United Brush Manufactories. No. 130,131; Apr. 6; v. 273; p. 182.
Brushes, Shaving-. Simmons Hardware Company. No. 130,110; Apr. 6; v. 273; p. 181.
Brushes used as sash-tools. United Brush Manufactories. No. 130,243; Apr. 13; v. 273; p. 404.
Buckles. Stanley Works. No. 130,117; Apr. 6; v. 273; p. 181.
Buckles, &c., Belt, shoe, and fob. North & Judd Manufacturing Company. No. 130,557; Apr. 27; v. 273; p. 804.
Building material, Creosoted. National Creosote Company. No. 130,216; Apr. 13; v. 273; p. 403.
Building material, Metal. Gagen Sales Corporation. No. 130,179; Apr. 13; v. 273; p. 402.
Buildings, Sectional. G. Wenzelmann. No. 130,591; Apr. 27; v. 273; p. 805.
Bulbs, Lily-. T. Outerbridge. No. 130,100; Apr. 6; v. 273; p. 181.
Burners and furnaces, Hydrocarbon, &c. The Denver Fire Clay Company. No. 130,172; Apr. 13; v. 273; p. 402.
Butter. Geo. R. Eldridge Co. No. 130,292; Apr. 20; v. 273; p. 620.
Butter. International Merchants, Incorporated. No. 130,322; Apr. 20; v. 273; p. 621.
Butter and cheese. H. C. Leslie. No. 130,536; Apr. 27; v. 273; p. 803.
Buttons, Non-metallic. Morley Button Manufacturing Company. No. 130,215; Apr. 13; v. 273; p. 403.
Cabinets, Kitchen-. Land-Diliks Co. No. 130,534; Apr. 27; v. 273; p. 803.
Cabots. Commercial Union of America. No. 130,478; Apr. 27; v. 273; p. 802.
Cakes, wafers, crackers. Loose-Wiles Biscuit Company. Nos. 130,349–50; Apr. 20; v. 273; p. 622.
Calipers and dividers for measuring purposes. Consolidated Tool Works. No. 130,286; Apr. 20; v. 273; p. 620.
Candies. Eye Brand Confectionery. No. 130,064; Apr. 6; v. 273; p. 180.
Candies, Johnson Bros. & Alexander. No. 130,323; Apr. 20; v. 273; p. 621.
Candies. Southern Candy Company. No. 130,113; Apr. 6; v. 273; p. 181.
Candies and chocolates. Gruenhagen's. No. 130,310; Apr. 20; v. 273; p. 620.

Candy. M. M. Anthony. No. 130,149; Apr. 13; v. 273; p. 401.
Candy. William Beatty, Jr., & Co. No. 130,262; Apr. 20; v. 273; p. 619.
Candy. R. F Bergengren No. 130,154; Apr. 13; v. 273; p. 401.
Candy. Cardinet Candy Co. No. 130,472; Apr. 27; v. 273; p. 801.
Candy. J. H. Hinck. No. 130,514; Apr. 27; v. 273; p. 803.
Candy. A. Iannella. No. 130,321; Apr. 20; v. 273; p. 621.
Candy. Melvin Candy Co. No. 130,362; Apr. 20; v. 273; p. 622.
Candy. H. C. Small. No. 130,411; Apr. 20; v. 273; p. 623.
Candy, Chocolate. Riesener Chocolate Co. No. 130,564; Apr. 27; v. 273; p. 804.
Canned condensed milk. Consolidated Creameries. No. 130,052; Apr. 6; v. 273; p. 179.
Canned corn. Clarksville Canning Co. No. 130,281; Apr. 20; v. 273; p. 620.
Canned corn and peas. Waterloo Canning Association. No. 130,440; Apr. 20; v. 273; p. 624.
Canned fish. Alaska Bakonized Fish Co. No. 130,253; Apr. 20; v. 273; p. 619.
Canned fruits. California Sanitary Canning Co. No. 130,274; Apr. 20; v. 273; p. 619.
Canned fruits. United States Trading Corporation. No. 130,587; Apr. 27; v. 273; p. 805.
Canned fruits and vegetables. J. Menist Company. No. 130,364; Apr. 20; v. 273; p. 622.
Canned goods, jam, &c. J. Menist Company. No. 130,547; Apr. 27; v. 273; p. 804.
Canned milk. Krenning-Schlapp Grocer Company. No. 130,336; Apr. 20; v. 273; p. 621.
Canned pineapples. Hawaiian Pineapple Company. Nos. 130,509–10; Apr. 27; v. 273; p. 802.
Canned salmon. American Factors, Limited. No. 130,455; Apr. 27; v. 273; p. 801.
Canned sardines. American Mexican Packing Co. No. 130,256; Apr. 20; v. 273; p. 619.
Canned sardines. Neptune Sea Food Co. No. 130,372; Apr. 20; v. 273; p. 622.
Canned sugar-corn. Warrensburg Canning Company. No. 130,439; Apr. 20; v. 273; p. 624.
Canned vegetables. Gibbs Preserving Co. No. 130,501; Apr. 27; v. 273; p. 802.
Carbureters and mixing-manifolds for internal-combustion engines. The Wight Investment Company. No. 130,248; Apr. 13; v. 273; p. 404.
Cars, Motor-. The New Merlin Cycle Co. No. 130,218; Apr. 13; v. 273; p. 403.
Cars, Railway hand-. Buda Company. No. 130,045; Apr. 6; v. 273; p. 179.
Caps. Chas. Tobias Bro. & Company. No. 130,425; Apr. 20; v. 273; p. 624.
Cartons, boxes, shipping-envelops, &c. Hinde & Douch Paper Co. No. 130,185; Apr. 13; v. 273; p. 402.
Castings, Heat-resisting. Hiram Walker & Sons Metal Products. No. 130,590; Apr. 27; v. 273; p. 805.
Catsup, canned vegetables and fruits. Sterling Products Co. No. 130,417; Apr. 20; v. 273; p. 624.
Cement, Building-. Ultramares Corporation. No. 130,242; Apr. 13; v. 273; p. 404.
Cement, Metallic. Metal Mending Company of America. No. 130,548; Apr. 27; v. 273; p. 804.
Chain repair-links. A. W. Burke. No. 130,271; Apr. 20; v. 273; p. 619.
Chains and swivels, Neck and watch. M. S. Rodenberg Co. No. 130,105; Apr. 6; v. 273; p. 181.
Check, Metal discount-. A. F. Winslow. No. 130,249; Apr. 13; v. 273; p. 404.
Cheese. W. Faehndrich. No. 130,494; Apr. 27; v. 273; p. 802.
Cheese and butter. Marré & Company. No. 130,357; Apr. 20; v. 273; p. 622.
Cherries, maraschino style, Bottled. Evan W. Hook & Co. No. 130,319; Apr. 20; v. 273; p. 621.
Chimneys, Lamp-. Krenning-Schlapp Grocer Company. No. 130,082; Apr. 6; v. 273; p. 180.
Chocolate, cocoa, powdered milk. D. Neuman. No. 130,373; Apr. 20; v. 273; p. 622.
Chocolate, Sweet. Knickerbocker Chocolate. No. 130,197; Apr. 13; v. 273; p. 402.
Cigarette makers and tubes, Portable. Waldes & Co. No. 130,134; Apr. 6; v. 273; p. 182.
Cigarettes. Hills Brothers Company. No. 130,072; Apr. 6; v. 273; p. 180.
Cigarettes, cigars, &c. American Tobacco Company. No. 130,029; Apr. 6; v. 273; p. 179.
Cigarettes, cigars, tobacco. Poland Export Corporation. No. 130,104; Apr. 6; v. 273; p. 181.
Cigarettes, tobacco. American Tobacco Company. No. 130,035; Apr. 6; v. 273; p. 179.
Cigars. Havana Commercial Company. No. 130,070; Apr. 6; v. 273; p. 180.
Cigars. D. Hector. No. 130,184; Apr. 13; v. 273; p. 402.
Cigars. V. Levor. No. 130,085; Apr. 6; v. 273; p. 180.
Cigars and cigarettes. W. Werner. No. 130,136; Apr. 6; v. 273; p. 182.
Cigars, cigarettes, and tobacco. F. G. Gilbert. No. 130,065; Apr. 6; v. 273; p. 180.
Cigars, cigarettes, and tobacco. R. J. Seidenberg Co. No. 130,109; Apr. 6; v. 273; p. 181.
Cleaning compound. J. J. Meyer. No. 130,090; Apr. 6; v. 273; p. 181.
Clocks. De Luxe Clock & Mfg. Co. No. 130,058; Apr. 6; v. 273; p. 180.
Closets, Chemical. Standard Steel Corp. No. 130,116; Apr. 6; v. 273; p. 181.
Clothing. Knox Hat Company. No. 130,198; Apr. 13; v. 273; p. 402.
Clothing. George Spencer & Co. No. 130,580; Apr. 27; v. 273; p. 804.
Clothing, &c. The Lerner Waist Co. No. 130,340; Apr. 20; v. 273; p. 621.
Clothing for infants. Hob Manufacturing Co. No. 130,515; Apr. 27; v. 273; p. 803.
Clothing, Women's. Mary's, Inc. No. 130,545; Apr. 27; v. 273; p. 804.
Clothing, Work-. D. M. Oberman Manufacturing Company. No. 130,558; Apr. 27; v. 273; p. 804.
Cloths, Pressing-. T. W. Jones. No. 130,194; Apr. 13; v. 273; p. 402.
Coats, vests, pants, and overcoats, Men's. Rosenberg Bros. & Co. No. 130,566; Apr. 27; v. 273; p. 804.
Coffee. Rogers Company. No. 130,396; Apr. 20; v. 273; p. 623.
Coffee. Ruefly Bros. No. 130,233; Apr. 13; v. 273; p. 404.
Computing device, Logarithmic-scale. Lewis, Connors & Company. No. 130,344; Apr. 20; v. 273; p. 621.
Confectionery. Tri-City Sales Company. No. 130,129; Apr. 6; v. 273; p. 182.
Construction materials. Brockway-Smith Corporation. No. 130,469; Apr. 27; v. 273; p. 801.
Cookers, Steam-. Toledo Cooker Company. No. 130,585; Apr. 27; v. 273; p. 804.
Copper, brass, and bronze ingots, rods, &c. Bridgeport Brass Company. No. 130,468; Apr. 27; v. 273; p. 801.
Corn-starch. Corn Products Refining Company. No. 130,480; Apr. 27; v. 273; p. 802.
Corsets. M. B. MacDonald. No. 130,353; Apr. 20; v. 273; p. 622.
Corsets. Standard Corset Company. No. 130,413; Apr. 20; v. 273; p. 623.
Corsets, brassières, and women's underwear. Benjamin & Johnes. No. 130,463; Apr. 27; v. 273; p. 801.
Cotton goods. Fearing, Whiton & Co. No. 130,497; Apr. 27; v. 273; p. 802.
Cotton piece goods. Naumkeag Steam Cotton Co. No. 130,371; Apr. 20; v. 273; p. 622.
Cotton piece goods. R. A. Suffern. No. 130,584; Apr. 27; v. 273; p. 805.
Cotton sewing-threads. Seamans & Cobb Co. No. 130,404; Apr. 20; v. 273; p. 623.
Cotton, silk, and wool piece goods. China, Japan & South America Trading Co. No. 130,051; Apr. 6; v. 273; p. 179.
Cotton, surgical gauze, &c., Absorbent. Hygienic Fibre Company. No. 130,074; Apr. 6; v. 273; p. 180.
Cotton-waste. Northern Waste Co. No. 130,094; Apr. 6; v. 273; p. 181.
Cradles, pilot-beams, end sills, &c. Commonwealth Steel Company. No. 130,166; Apr. 13; v. 273; p. 401.
Demagnetizing apparatus or devices. Electric Brazing and Welding Machine Co. No. 130,491; Apr. 27; v. 273; p. 802.
Dental inlays and bridgework, Alloy for metal for. M. F. Patterson Dental Supply Company. No. 130,095; Apr. 6; v. 273; p. 181.
Derricks, Portable hoisting-. John F. Byers Machine Company. No. 130,161; Apr. 13; v. 273; p. 401.
Dish-washing machines. Henry Giessel Co. No. 130,304; Apr. 20; v. 273; p. 620.
Dolls. S. Adler. No. 130,038; Apr. 6; v. 273; p. 179.
Dolls. J. M. Lockwood, Jr. No. 130,089; Apr. 6; v. 273; p. 181.
Dolls and table-favors. George Borgfeldt & Co. No. 130,465; Apr. 27; v. 273; p. 801.
Dolls and toy animals. U. S. Toy & Novelty Co. No. 130,132; Apr. 6; v. 273; p. 182.
Dress-fasteners. Ultramares Corporation. No. 130,241; Apr. 13; v. 273; p. 404.
Dresses and aprons, One-piece. C. R. Schmick. No. 130,571; Apr. 27; v. 273; p. 804.
Drying-machines, Electrical lavatory. Groton Electrical Devices, Inc. No. 130,309; Apr. 20; v. 273; p. 620.
Egg-substitute powder. W. R. Hollingshead Company. No. 130,318; Apr. 20; v. 273; p. 621.
Electrical appliances. National Clutch Company. No. 130,367; Apr. 20; v. 273; p. 622.
Electrical wire and fuses. J. H. Faw, Inc. No. 130,496; Apr. 27; v. 273; p. 802.
Electrotherapeutic apparatus for generating high-frequency currents. Contra-Pole Electric Company. No. 130,053; Apr. 6; v. 273; p. 180.
Engine stop mechanism. Falls Machine Company. No. 130,495; Apr. 27; v. 273; p. 802.
Engines, Internal-combustion. Elgin Gas Motor Company. No. 130,293; Apr. 20; v. 273; p. 620.
Engines, Internal-combustion. Gallowsen Grei Engine Co. No. 130,507; Apr. 27; v. 273; p. 802.
Engines, Internal-combustion. Rolls-Royce, Limited. No. 130,232; Apr. 13; v. 273; p. 403.
Eyebrow-brushes. I. A. Campbell. No. 130,047; Apr. 6; v. 273; p. 179.
Fabrics, Textile. Lamborn & Co. No. 130,338; Apr. 20; v. 273; p. 621.

Fancy goods, furnishings, and notions. Waldes & Co. No. 130,434; Apr. 20; v. 273; p. 624.
Fancy goods, furnishings, and notions. Waldes & Co. No. 130,436; Apr. 20; v. 273; p. 624.
Fans, Electric. T. E. Clark. No. 130,280; Apr. 20; v. 273; p. 619.
Farina, pearl-barley, &c. F. B. Chamberlain Company. No. 130,473; Apr. 27; v. 273; p. 801.
Feathers. Star Bedding Company. No. 130,416; Apr. 20; v. 273; p. 624.
Feed, Stock. Owensboro Products Company. No. 130,383; Apr. 20; v. 273; p. 623.
Fenceposts, Steel. R. C. Knopke. No. 130,530; Apr. 27; v. 273; p. 803.
Fertilizers. Crabbs Reynolds Taylor Co. No. 130,168; Apr. 13; v. 273; p. 401.
Fire-extinguishers. C. Bardos, Jr. No. 130,476; Apr. 27; v. 273; p. 801
Fire-extinguishing syringes. Scallan Supply Company. No. 130,570; Apr. 27; v. 273; p. 804.
Fishing-reels. H. From. No. 130,500; Apr. 27; v. 273; p. 802.
Flatirons, Electrical. Chicago Flexible Shaft Company. No. 130,279; Apr. 20; v. 273; p. 619.
Flat-ware. Oneida Community. No. 130,382; Apr. 20; v. 273; p. 623.
Flavoring extracts. C. F. Sauer Co. No. 130,403; Apr. 20; v. 273; p. 623.
Flour. Omaha Flour Mills Co. No. 130,220; Apr. 13; v. 273; p. 403.
Flour, bran, middlings, mixed feed, Wheat-. Midwest Flour & Feed Company. No. 130,549; Apr. 27; v. 273; p. 804.
Flour, Self-rising wheat-. Hezel Milling Company. Nos. 130,512–13; Apr. 27; v. 273; p. 803.
Flour, Wheat-. Donmeyer, Gardner Co. No. 130,485; Apr. 27; v. 273; p. 802.
Flour, Wheat-. J. F. Lennon. No. 130,084; Apr. 6; v. 273; p. 180.
Flour, Wheat-. Rice Cereal Company. No. 130,228; Apr. 13; v. 273; p. 403.
Flour, Wheat-. Robinson Milling Co. No. 130,230; Apr. 13; v. 273; p. 403.
Flour, Wheat-. Sperry Flour Company. No. 130,412; Apr. 20; v. 273; p. 623.
Flour, wheat cereal, &c., Buckwheat pancake-. Pillsbury Flour Mills Company. No. 130,389; Apr. 20; v. 273; p. 623.
Food, Breakfast. Chas. A. Krause Milling Co. No. 130,531; Apr. 27; v. 273; p. 803.
Food compound, Vegetable. P. Kleckner. No. 130,196; Apr. 13; v. 273; p. 402.
Foods. Cheri, Inc. No. 130,474; Apr. 27; v. 273; p. 801.
Foods, H. Foersterling. No. 130,178; Apr. 13; v. 273; p. 402.
Foods, &c. Haas, Baruch & Co. No. 130,312; Apr. 20; v. 273; p. 620.
Foods, &c. Union Pacific Tea Co. No. 130,428; Apr. 20; v. 273; p. 624.
Foods. Plainwell Canning & Preserving Company. No. 130,224; Apr. 13; v. 273; p. 403.
Foods. Tolerton & Warfield Co. No. 130,239; Apr. 13; v. 273; p. 404.
Foods. Wilson & Co. No. 130,446; Apr. 20; v. 273; p. 624.
Foods and ingredients of foods. S. D. Abrams. No. 130,143; Apr. 13; v. 273; p. 401.
Foods and ingredients of foods. I. Burger. No. 130,160; Apr. 13; v. 273; p. 401.
Foods and ingredients of foods. Grand Union Tea Co. No. 130,504. Apr. 27; v. 273; p. 802.
Foods, Preserved or partially or wholly prepared. International Preserving Corporation. No. 130,526; Apr. 27; v. 273; p. 803.
Foot-pads. A. B. Plummer. No. 130,390; Apr. 20; v. 273; p. 623.
Fruits, Citrus. Lake Wales Citrus Growers Association. No. 130,337; Apr. 20; v. 273; p. 621.
Fruits, Fresh. Furry Fruit & Produce Co. No. 130,300; Apr. 20; v. 273; p. 620.
Fruits, Fresh citrus. Lake Reedy Packing Co. Nos. 130,532–3; Apr. 27; v. 273; p. 803.
Fruits, Fresh citrus. Ryan Fruit Company. No. 130,399; Apr. 20; v. 273; p. 623.
Fruits, Preserved. B. Smallwood. No. 130,577; Apr. 27; v. 273; p. 805.
Fuel made of coal, Powdered. Powdered Coal Engineering & Equipment Company. No. 130,225; Apr. 13; v. 273; p. 403.
Furnace, Air-heating. P. C. De Vol Hardware Company. No. 130,173; Apr. 13; v. 273; p. 402.
Furniture. J. S. Blankinship. No. 130,155; Apr. 13; v. 273; p. 401.
Furniture. Chicago Hardware Foundry Company. No. 130,049; Apr. 6; v. 273; p. 179.
Furniture, automobile, &c., polish. A. Zweibach. No. 130,251; Apr. 13; v. 273; p. 404.
Game. W. Fuld. No. 130,142; Apr. 6; v. 273; p. 182.
Game. C. H. Hatheway. No. 130,069; Apr. 6; v. 273; p. 180.
Game. Irvin-Smith Company. No. 130,101; Apr. 6; v. 273; p. 181.
Game, Card. H. M. J. Ruch. No. 130,567; Apr. 27; v. 273; p. 804.
Games. G. C. Dutton. No. 130,488; Apr. 27; v. 273; p. 802.
Garments for men, women, and children. F. Simon & Co. No. 130,575; Apr. 27; v. 273; p. 805.
Garments for men, women, and children. S. A. Singer. No. 130,576; Apr. 27; v. 273; p. 805.
Garments, Men's outer. Levy & Schilt. No. 130,343; Apr. 20; v. 273; p. 621.
Garments, Young men's outer. Levy & Schilt. No. 130,342; Apr. 20; v. 273; p. 621.
Garters. Hewes & Potter. No. 130,314; Apr. 20; v. 273; p. 620.
Garters, armbands, &c. S. Levy. No. 130,200; Apr. 13; v. 273; p. 403.
Garters, hose-supporters, and armbands. A. Stein & Company. No. 130,238; Apr. 13; v. 273; p. 404.
Ginger-ale, &c. S. L. Goldman. No. 130,180; Apr. 13; v. 273; p. 402.
Ginghams, percales, bleached muslin, &c. Carson, Pirie, Scott & Co. No. 130,275; Apr. 20; v. 273; p. 619.
Glass. Corning Glass Works. No. 130,167; Apr. 13; v. 273; p. 401.
Glass articles, Cut-. Lotus Cut Glass Company. No. 130,208; Apr. 13; v. 273; p. 403.
Glass jars. American Pure Food Process Co. No. 130,257; Apr. 20; v. 273; p. 619.
Glass jars. Phoenix-Hermetic Company. No. 130,223; Apr. 13; v. 273; p. 403.
Gloves, Kid. Henry Kayser & Fils. No. 130,325; Apr. 20; v. 273; p. 621.
Gold alloy for dental clasps, &c. Baker and Company. No. 130,039; Apr. 6; v. 273; p. 179.
Gold for dental shells and plates, White. Baker and Company. No. 130,040; Apr. 6; v. 273; p. 179.
Golf-bags and tennis-racket covers. Dafoe-Eustice Company. No. 130,481; Apr. 27; v. 273; p. 802.
Grapes, Fresh. L. Rusconi. No. 130,234; Apr. 13; v. 273; p. 404.
Gum, Chewing-. Colngum Manufacturing Company. No. 130,475; Apr. 27; v. 273; p. 801.
Gum, Chewing-. Universal Products Co. No. 130,588; Apr. 27; v. 273; p. 805.
Hammocks. John Curtin Corp. No. 130,056; Apr. 6; v. 273; p. 180.
Handkerchiefs. Alco Textile Products Co. No. 130,252; Apr. 20; v. 273; p. 619.
Handkerchiefs. Jordan Marsh Company. No. 130,324; Apr. 20; v. 273; p. 621.
Hats. Chas. Tobias Bro. & Company. No. 130,427; Apr. 20; v. 273; p. 624.
Hats and caps, Cloth. Chas. Tobias Bro. & Company. No. 130,426; Apr. 20; v. 273; p. 624.
Hats and caps, Felt. John B. Stetson Company. No. 130,418; Apr. 20; v. 273; p. 624.
Hats and caps, Men's and children's. Goorin, Shapira & Company. No. 130,503; Apr. 27; v. 273; p. 802.
Hats, Women's. Ogus Rabinovich & Ogus Company. No. 130,380; Apr. 20; v. 273; p. 622.
Headlight-glasses. Warner Lenz Company. No. 130,246; Apr. 13; v. 273; p. 404.
Headlight lenses, Automobile-. C. A. Shaler Company. No. 130,235; Apr. 13; v. 273; p. 404.
Headlights and turbo-generators, Electric. Schroeder Headlight & Generator Co. Nos. 130,406–7; Apr. 20; v. 273; p. 623.
Heel-grips. W. Guinzburg. No. 130,181; Apr. 13; v. 273; p. 402.
Hides and leather. American National Shoe & Leather Corp. Nos. 130,146–7; Apr. 13; v. 273; p. 401.
Horological instruments. Lenox Jewelry Co. No. 130,199; Apr. 13; v. 273; p. 403.
Hose. Slatedale Knitting Mills. Nos. 130,409–10; Apr. 20; v. 273; p. 623.
Hose-supporter. Ely & Walker Dry Goods Co. No. 130,295; Apr. 20; v. 273; p. 620.
Hose-supporters. Warner Bros. No. 130,438; Apr. 20; v. 273; p. 624.
Hosiery. T. E. Brown. No. 130,269; Apr. 20; v. 273; p. 619.
Hosiery. Goodwear Hosiery Co. No. 130,308; Apr. 20; v. 273; p. 620.
Hosiery. Kennesaw Hosiery Company. No. 130,529; Apr. 27; v. 273; p. 803.
Hosiery. A. Stieglitz & Co. No. 130,582; Apr. 27; v. 273; p. 805.
Hosiery. Vanity Fair Silk Mills. No. 130,430; Apr. 20; v. 273; p. 624.
Hosiery, Children's. John M. Given, Inc. No. 130,307; Apr. 20; v. 273; p. 620.
Hosiery for boys and girls. Mandel & Cohen. No. 130,355; Apr. 20; v. 273; p. 622.
Horse and mule shoes. Phoenix Horse Shoe Co. No. 130,102; Apr. 6; v. 273; p. 181.
Icing for cake and bread. E. Probst. No. 130,226; Apr. 13; v. 273; p. 403.
Infants' wear. Aaron and Hall. No. 130,451; Apr. 27; v. 273; p. 801
Insulation, Structural material for. American Balsa Co. Nos. 130,144–5; Apr. 13; v. 273; p. 401.
Jar-caps. American Pure Food Process Co. No. 130,036; Apr. 6; v. 273; p. 179.
Jelly, Pineapple. Pearl City Fruit Co. No. 130,559; Apr. 27; v. 273; p. 804.
Jewelry. The E. A. Bliss Company. No. 130,264; Apr. 20; v. 273; p. 619.

Knitted capes and mufflers. The Lion Knitting Mills Co. No. 130,346; Apr. 20; v. 273; p. 621.
Knitted sweaters. A. M. Mendelson. No. 130,546; Apr. 27; v. 273; p. 804.
Knives. Dwight Divine & Sons. Nos. 130,489–90; Apr. 27; v. 273; p. 802.
Knives and meat-carving sets, Pocket-. New Jersey Cutlery Co. Inc. No. 130,376; Apr. 20; v. 273; p. 622.
Lard compound. Dixie Refining Co. No. 130,174; Apr. 13; v. 273; p. 402.
Lathes and grinders. Axelson Machine Co. No. 130,460; Apr. 27; v. 273; p. 801.
Leather. Ultramares Corporation. No. 130,240; Apr. 13; v. 273; p. 404.
Leather and finished calfskins, Patent-. Barnet Leather Company. No. 130,461; Apr. 27; v. 273; p. 801.
Leather-dressing. Whittemore Brothers Corporation. No. 130,594; Apr. 27; v. 273; p. 805.
Leather for shoes. Castle Kid Co. No. 130,048; Apr. 6; v. 273; p. 179.
Leather, Finished. Chevaux Kid Leather Co. No. 130,278; Apr. 20; v. 273; p. 619.
Leather, Imitation. Benjamin V. Harrison Co. No. 130,067; Apr. 6; v. 273; p. 180.
Leather, Sole-. Sears, Roebuck & Company. No. 130,108; Apr. 6; v. 273; p. 181.
Leather, Upper-. Standard Kid Manufacturing Company. No. 130,414; Apr. 20; v. 273; p. 624.
Leggings, Leather and fabric. F. J. Stewart. No. 130,419; Apr. 20; v. 273; p. 624.
Lenses, Auto-. Unique Auto Specialties Co. No. 130,429; Apr. 20; v. 273; p. 624.
Lenses, Optical. F. B. Alexander. No. 130,254; Apr. 20; v. 273; p. 619.
Lighting-fixtures, Glass. Phoenix Glass Company. No. 130,222; Apr. 13; v. 273; p. 403.
Limestone, Pulverized. American Limestone Company. No. 130,027; Apr. 6; v. 273; p. 179.
Locomotives and tractors, Electric. Koppel Industrial Car & Equipment Company. No. 130,333; Apr. 20; v. 273; p. 621.
Lounges and vehicle-seats. F. O. White. No. 130,138; Apr. 6; v. 273; p. 182.
Lubricating compound. Area Manufacturing Co. No. 130,459; Apr. 27; v. 273; p. 801.
Lumber and veneers. Nickey Brothers. No. 130,219; Apr. 13; v. 273; p. 403.
Lumber stock material. Brown Brothers Company. No. 130,157; Apr. 13; v. 273; p. 401.
Macaroni, spaghetti, vermicelli. California Macaroni Company. No. 130,273; Apr. 20; v. 273; p. 619.
Machine-tools for scaling and cleaning boiler-plates, &c. F. Gilman. No. 130,306; Apr. 20; v. 273; p. 620.
Machines, Tiering-. Brown Portable Conveying Machinery Co. No. 130,158; Apr. 13; v. 273; p. 401.
Machinery and tools and attachments therefor. Lawson & Company. No. 130,535; Apr. 27; v. 273; p. 803.
Malt extract for food purposes. C. L. Beardsley. No. 130,261; Apr. 20; v. 273; p. 619.
Malt extracts, Non-alcoholic. V. Loewer's Gambrinus Brewery Co. No. 130,207; Apr. 13; v. 273; p. 403.
Matches. Stromborg Export & Import Co. Nos. 130,121–8; Apr. 6; v. 273; p. 182.
Meat products. Indian Packing Company. Nos. 130,524–5; Apr. 27; v. 273; p. 803.
Metals—namely, engravers' plates in blank. National Steel & Copper Plate Company. No. 130,554; Apr. 27; v. 273; p. 804.
Meteorological instruments. C. E. Manning. No. 130,542; Apr. 27; v. 273; p. 804.
Military insignia. Mount Royal Corporation. No. 130,093; Apr. 6; v. 273; p. 181.
Milk, Condensed. Breakstone Bros. No. 130,467; Apr. 27; v. 273; p. 801.
Milk, Condensed. The Borden Company. No. 130,265; Apr. 20; v. 273; p. 619.
Milk, Condensed skimmed. J. Menist Company. No. 130,363; Apr. 20; v. 273; p. 622.
Milk, Evaporated. National Dairy Co. No. 130,217; Apr. 13; v. 273; p. 403.
Motors, Electric. Nicholas Power Company. No. 130,555; Apr. 27; v. 273; p. 804.
Nail-files, manicure-sticks, &c. Lustr-Ite Corporation. No. 130,540; Apr. 27; v. 273; p. 803.
Nails, Horseshoe and molders'. Fowler Nail Co. No. 130,499; Apr. 27; v. 273; p. 802.
Necklaces, Imitation-pearl. L. Heller & Son. No. 130,071; Apr. 6; v. 273; p. 180.
Neckties. G. L. Hendrix. No. 130,313; Apr. 20; v. 273; p. 620.
Negligées and work-shirts, Dress-. Brighton Shirt Co. No. 130,267; Apr. 20; v. 273; p. 619.
Night-wear. Cooper, Conte & Casey Dry Goods Co. No 130,287; Apr. 20; v. 273; p. 620.
Oil and olives, Olive-. A. Da Costa. No. 130,170; Apr. 13; v. 273; p. 401.
Oil, Olive-. J. Bau. No. 130,260; Apr. 20; v. 273; p. 619.
Oil, Olive-. W. L. Geer. No. 130,301; Apr. 20; v. 273; p. 620.
Oil, Olive-. B. J. Spiropoulos. No. 130,237; Apr. 13; v. 273; p. 404.
Oils, Edible. Aspegren & Company. No. 130,258; Apr. 20; v. 273; p. 619.
Ore-concentrators. Deister Concentrator Company. No. 130,483; Apr. 27; v. 273; p. 802.
Overalls. Standard Tent & Awning Co. No. 130,415; Apr. 20; v. 273; p. 624.
Overalls, Men's. J. Kirschner. Nos. 130,328–9; Apr. 20; v. 273; p. 621.
Oysters, Fresh, dried, and canned. Narragansett Bay Oyster Co. Nos. 130,365–6; Apr. 20; v. 273; p. 622.
Package-binders and parts thereof. E. A. Rudin. No. 130,106; Apr. 6; v. 273; p. 181.
Paper. Chicago Paper Company. No. 130,050; Apr. 6; v. 273; p. 179.
Paper bags. J. Single. No. 130,112; Apr. 6; v. 273; p. 181.
Paper, Bond-. Western Newspaper Union. No. 130,137; Apr. 6; v. 273; p. 182.
Paper, bond and linen writing-paper, and envelops, Ledger-. Whiting Paper Company. No. 130,444; Apr. 20; v. 273; p. 624.
Paper, Cover-. Alexander-Holden Paper Co. No. 130,255; Apr. 20; v. 273; p. 619.
Paper, Fine writing-. Whiting Paper Company. No. 130,443; Apr. 20; v. 273; p. 624.
Paper shot-shells. Winchester Repeating Arms Co. No. 130,140; Apr. 6; v. 273; p. 182.
Paper, Writing-. Gilbert Paper Company. No. 130,305; Apr. 20; v. 273; p. 620.
Pavements, Bituminous. Simpson Bros. Corporation. No. 130,236; Apr. 13; v. 273; p. 404.
Pearls and imitation pearls. W. B. Kellogg Co. No. 130,077; Apr. 6; v. 273; p. 180.
Peanuts. H. C. Sullivan. No. 130,422; Apr. 20; v. 273; p. 624.
Pencils, crayons, &c., Lead-. Blaisdell Pencil Company. No. 130,263; Apr. 20; v. 273; p. 619.
Pens and parts thereof, Fountain-. The Wahl Company. No. 130,432; Apr. 20; v. 273; p. 624.
Phonograph-cabinets. Pianissimo Player Action Co. No. 130,696; Apr. 6; v. 273; p. 181.
Phonograph-records. Emerson Phonograph Company. No. 130,063; Apr. 6; v. 273; p. 180.
Phonographs and cabinets. Milwaukee Talking Machine Manufacturing Co. No. 130,091; Apr. 6; v. 273; p. 181.
Phonographs and records. T. H. De Pew. No. 130,059; Apr. 6; v. 273; p. 180.
Phonographs and talking-machines. F. S. Sammel. No. 130,402; Apr. 20; v. 273; p. 623.
Pianos, piano-players, and organs. Story & Clark Piano Company. Nos. 130,119–20; Apr. 6; v. 273; p. 181.
Picture films, Motion-. Dramafilms. No. 130,486; Apr. 27; v. 273; p. 802.
Picture films, Motion-. Realart Pictures Corporation. No. 130,391; Apr. 20; v. 273; p. 623.
Pins, snap-fasteners, &c. Marshall Field & Company. No. 130,358; Apr. 20; v. 273; p. 622.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 130,435; Apr. 20; v. 273; p. 624.
Plastic composition for modeling. E. Reizenstein. No. 130,393; Apr. 20; v. 273; p. 623.
Plumbers' and steamfitters' supplies. R. J. Shannon. No. 130,574; Apr. 27; v. 273; p. 805.
Plumbing fixtures and supplies. Compound Injector & Specialty Co. No. 130,479; Apr. 27; v. 273; p. 802.
Pocket-books. Beach Leather Company. No. 130,041; Apr. 6; v. 273; p. 179.
Poison foods. F. T. Kobayashi. No. 130,080; Apr. 6; v. 273; p. 180.
Pottery, Table-. Knowles, Taylor & Knowles Company. No. 130,079; Apr. 6; v. 273; p. 180.
Poultry, Dressed. National Poultry Co. No. 130,368; Apr. 20; v. 273; p. 622.
Powders, Face-. F. N. Lewis. No. 130,201; Apr. 13; v. 273; p. 403.
Preparation for making a fruit acid and spice-flavored marmalade and jam. D. L. Levinson. No. 130,341; Apr. 20; v. 273; p. 621.
Preserves, Fruit. Norman Bros. & Berliant. No. 130,556; Apr. 27; v. 273; p. 804.
Printing-presses and parts thereof. Lisenby Manufacturing Company. No. 130,347; Apr. 20; v. 273; p. 622.
Pumps. F. A. B. Manufacturing Co. No. 130,493; Apr. 27; v. 273; p. 802.
Pumps for boats, Hand bilge-water. R. T. Windle. No. 130,447; Apr. 20; v. 273; p. 624.
Punches. H. M. Diggs. No. 130,291; Apr. 20; v. 273; p. 620.
Raincoats. J. Harbert; No. 130,308; Apr. 27; v. 273; p. 802.
Razors. Geo. W. Korn Razor Mfg. Co. No. 130,334; Apr. 20; v. 273; p. 621.
Razors, Safety-. J. Potter. No. 130,560; Apr. 27; v. 273; p. 804.
Ribbons, Silk and velvet. Wertheimer Bros. No. 130,442; Apr. 20; v. 273; p. 624.
Rice. Stuttgart Rice Mill Company. No. 130,421; Apr. 20; v. 273; p. 624.
Rice, pickles, and olives. Tolerton & Warfield Co. No. 130,424; Apr. 20; v. 273; p. 624.
Rim, Collapsible. Baer Collapsible Rim Corporation. No. 130,259; Apr. 20; v. 273; p. 619.
Rings, brooches, &c. Abel Bros. & Co. No. 130,025; Apr. 6; v. 273; p. 179.
Rivet-sets, and metal-working punches. Mac-It Parts Company. No. 130,209; Apr. 13; v. 273; p. 403.

Roofing and shingles. Safepack Mills. Nos. 130,400–1; Apr. 20; v. 273; p. 623.
Roofing, Prepared. Wilberite Roofing Company. No. 130,445; Apr. 20; v. 273; p. 624.
Roofing, Prepared felt. Lamborn & Co. No. 130,339; Apr. 20; v. 273; p. 621.
Roofing products. New England Felt Roofing Works. No.130, 375; Apr. 20; v. 273; p. 622.
Roofings, Prepared. A. B. Wainwright Company. No. 130,433; Apr. 20; v. 273; p. 624.
Rope. Tubbs Cordage Company. No. 130,130; Apr. 6; v. 273; p. 182.
Rope, cord, twine, and binder-twine. International Harvester Company. No. 130,075; Apr. 6; v. 273; p. 180.
Rope, Manila. Whitlock Cordage Co. No. 130,139; Apr. 6; v. 273; p. 182.
Rosin. Bogalusa Turpentine Company. No. 130,464; Apr. 27; v. 273; p. 801.
Rubber and composition soles and heels. Marathon Tire & Rubber Co. No. 130,543; Apr. 27; v. 273; p. 804.
Rubber stamps and stencils. A. C. Gibson Company Inc. No. 130,303; Apr. 20; v. 273; p. 620.
Rubber toy balloons. Western Reserve Rubber Co. No. 130,592; Apr. 27; v. 273; p. 805.
Sardines. Rueppel-Jones Importing Company. No. 130,568; Apr. 27; v. 273; p. 804.
Sausage, Fresh. C. Hollenbach. No. 130,317; Apr. 20; v. 273; p. 621.
Saws. Henry Disston & Sons. No. 130,484; Apr. 27; v. 273; p. 802.
Screws, Anchor-sockets for. Stine Screw Holes Company. No. 130,420; Apr. 20; v. 273; p. 624.
Screws, bolts, nuts, &c. Reed & Prince Manufacturing Company. No. 130,561; Apr. 27; v. 273; p. 804.
Seed, Grain-. H. K. Cochran Company. No. 130,282; Apr. 20; v. 273; p. 620.
Seeds, Field-. Hardin, Hamilton & Lewman. No. 130,066; Apr. 6; v. 273; p. 180.
Seeds, Field-. N. Wertheimer & Sons. No. 130,441; Apr. 20; v. 273; p. 624.
Seeds, Field and garden. T. H. Cochrane Co. No. 130,165; Apr. 13; v. 273; p. 401.
Seeds, Garden, vegetable and field. Lewis Implement and Seed Company. No. 130,202; Apr. 13; v. 273; p. 403.
Shade-cloth. Talbert-Whitmore Company. No. 130,423; Apr. 20; v. 273; p. 624.
Sheet-metal fasteners for corsets, rubber button-bases, &c. Kabo Corset Company. No. 130,195; Apr. 13; v. 273; p. 402.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 130,370; Apr. 20; v. 273; p. 622.
Sheets, pillow and bolster cases. Naumkeag Steam Cotton Co. No. 130,369; Apr. 20; v. 273; p. 622.
Shirts. Carson Pirie Scott & Co. No. 130,276; Apr. 20; v. 273; p. 619.
Shirts, Dress, negligée and work. Piedmont Shirt Co. No. 130,388; Apr. 20; v. 273; p. 623.
Shoe, corset, &c., lacings, galloons, braids. Glencairn Mfg. Co. No. 130,502; Apr. 27; v. 273; p. 802.
Shoe-soles, Rubber and fiber. Revere Rubber Company. No. 130,394; Apr. 20; v. 273; p. 623.
Shoe-tongue pads. E. A. Guinzburg. No. 130,311; Apr. 20; v. 273; p. 620.
Shoes. O. Gentile. No. 130,302; Apr. 20; v. 273; p. 620.
Shoes, boots, and slippers. M. A. Feehan. No. 130,498; Apr. 27; v. 273; p. 802.
Shoes, Leather, &c. Brauer Bros. Shoe Company. No. 130,266; Apr. 20; v. 273; p. 619.
Shoes, Leather. Henry Kleine & Co. No. 130,330; Apr. 20; v. 273; p. 621.
Shoes, Leather and canvas. R. H. Macy & Co. No. 130,354; Apr. 20; v. 273; p. 622.
Shoes, Women's leather. H. E. Davis Co. No. 130,482; Apr. 27; v. 273; p. 802.
Shoes, Women's and children's. Johansen Brothers Shoe Company. No. 130,527; Apr. 27; v. 273; p. 803.
Signals, Warning-. Stewart-Warner Speedometer Corporation. No. 130,118; Apr. 6; v. 273; p. 181.
Skees. Ellingwood Turning Co. No. 130,492; Apr. 27; v. 273; p. 802.
Slippers, Leather, silk, &c. Wiley-Bickford-Sweet Co. No. 130,593; Apr. 27; v. 273; p. 805.
Snap dress-fasteners. Columbia Fastener Company. No. 130,285; Apr. 20; v. 273; p. 620.
Snap-fasteners. Columbia Fastener Company. Nos. 130,283–4; Apr. 20; v. 273; p. 620.
Snap-fasteners. Fulford Mfg. Co. No. 130,298; Apr. 20; v. 273; p. 620.
Snap-fasteners and buttons. E. G. Khouri & Bro. No. 130,078; Apr. 6; v. 273; p. 180.
Soles, boots, and shoes. Adwear Process Sole Leather Machine Company. No. 130,453; Apr. 27; v. 273; p. 801.
Soap. Howard Bros. Chemical Co. No. 130,073; Apr. 6; v. 273; p. 180.
Soap. Washer Maid Company. No. 130,135; Apr. 6; v. 273; p. 182.
Soaps. Agra Company. No. 130,024; Apr. 6; v. 273; p. 179.
Soup. St. Louis Food Products Company. No. 130,583; Apr. 27; v. 273; p. 805.
Spark-intensifiers. A. K. Van Namee. No. 130,431; Apr. 20; v. 273; p. 624.
Spark-plugs. E. W. Brandquist. No. 130,466; Apr. 27; v. 273; p. 801.
Spark-plugs. Derf Manufacturing Company. No. 130,289; Apr. 20; v. 273; p. 620.
Spark-plugs. F. M. Furber. No. 130,299; Apr. 20; v. 273; p. 620.
Sponges and chamois. Schroeder & Tremayne. No. 130,107; Apr. 6; v. 273; p. 181.
Sprout and other fish hooks. S. Allcock & Co. No. 130,026; Apr. 6; v. 273; p. 179.
Stamps, Time-. J. Levy. No. 130,537; Apr. 27; v. 273; p. 803.
Staple forming and affixing machines and parts. Hutchison Office Specialties Co. No. 130,191; Apr. 13; v. 273; p. 402.
Steel, Drill and tool. Andersen, Meyer & Co. No. 130,458; Apr. 27; v. 273; p. 801.
Steel, Tool and gear. Liberty Steel Products Co. No. 130,538; Apr. 27; v. 273; p. 803.
Stove-linings, Steel. Detroit Stove Works. No. 130,290; Apr. 20; v. 273; p. 620.
Stoves, Gas, oil, and coal burning. The Detroit Vapor Stove Company. No. 130,062; Apr. 6; v. 273; p. 180.
Stovepipe, gas, coal and wood stoves, portable ovens. Wm. Enders Manufacturing Company. No. 130,177; Apr. 13; v. 273; p. 402.
Sugar-drops, butter bonbons, &c., Boiled. James Pascall, Ltd. No. 130,221; Apr. 13; v. 273; p. 403.
Suits and overcoats, Boys'. Imperial Garments Co. No. 130,523; Apr. 27; v. 273; p. 803.
Suits and overcoats, Men's. Harry Hindlemann, Inc. No. 130,315; Apr. 20; v. 273; p. 621.
Sweaters. Bee Ess Knitting Mills. No. 130,462; Apr. 27; v. 273; p. 801.
Sweaters. Phillips-Doscher Corporation. No. 130,387; Apr. 20; v. 273; p. 623.
Syrup, Cooking-. W. M. Brownell. No. 130,270; Apr. 20; v. 273; p. 619.
Syrup, Table-. Nulomoline Company. No. 130,378; Apr. 20; v. 273; p. 622.
Syrups, Corn and cane products. Hardaway-Cargill Co. No. 130,183; Apr. 13; v. 273; p. 402.
Tackle-blocks, Wood and steel shell. Marine Equipment and Supply Co. No. 130,356; Apr. 20; v. 273; p. 622.
Talking-machines. Modernola Co. No. 130,092; Apr. 6; v. 273; p. 181.
Tea. W. S. Quinby Company. No. 130,227; Apr. 13; v. 273; p. 403.
Tea, coffee, chocolate, cocoa. Krenning-Schlapp Grocer Company. No. 130,335; Apr. 20; v. 273; p. 621.
Telephone-receiver supports. M. V. Reiner. No. 130,393; Apr. 20; v. 273; p. 623.
Tents and canopies, awnings, &c. John Curtin Corporation. No. 130,169; Apr. 13; v. 273; p. 401.
Textile fabrics. Lortex Company. No. 130,351; Apr. 20; v. 273; p. 622.
Textiles. Derryvale Linen Company. Nos. 130,060–1; Apr. 6; v. 273; p. 180.
Thistle-pulling machines. H. F. Hoehne. No. 130,516; Apr. 27; v. 273; p. 803.
Thread and yarn. H. E. Locke & Company. No. 130,088; Apr. 6; v. 273; p. 180.
Thread and yarn. H. E. Locke & Company. No. 130,204; Apr. 13; v. 273; p. 403.
Thread and yarn. H. E. Locke & Company. No. 130,206; Apr. 13; v. 273; p. 403.
Threads and yarns. American Trading Company. No. 130,148; Apr. 13; v. 273; p. 401.
Tile and brick, &c., Building. Milton Brick Company. No. 130,550; Apr. 27; v. 273; p. 804.
Tin, galvanized and japanned ware. National Enameling & Stamping Co. No. 130,553; Apr. 27; v. 273; p. 804.
Tire grip-chains. Liberty Chain Company. No. 130,345; Apr. 20; v. 273; p. 621.
Tire-patches. P. E. Lown. No. 130,352; Apr. 20; v. 273; p. 622.
Tobacco. American Tobacco Company. No. 130,030; Apr. 6; v. 273; p. 179.
Tobacco. American Tobacco Company. No. 130,034; Apr. 6; v. 273; p. 179.
Tobacco. Standard Tobacco Company. No. 130,581; Apr. 27; v. 273; p. 805.
Tobacco and cigarettes. American Tobacco Co. Nos. 130,032–3; Apr. 6; v. 273; p. 179.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 130,087; Apr. 6; v. 273; p. 180.
Tobacco and cigarettes, Smoking. American Tobacco Company. No. 130,031; Apr. 6; v. 273; p. 179.
Tobacco, Plug. Larus & Brother Company. No. 130,083; Apr. 6; v. 273; p. 180.
Toilet preparations. A. Simonson. No. 130,111; Apr. 6; v. 273; p. 181.
Tomato paste. New Central Canning Co. No. 130,374; Apr. 20; v. 273; p. 622.
Tool, shovel, and incline, Combination automobile-. Alsteel Manufacturing Co. No. 130,454; Apr. 27; v. 273; p. 801.
Tools, Rotary. Edgar C. Guthard Co. No. 130,182; Apr. 13; v. 273; p. 402.
Torches and parts thereof, Cutting and welding. Bastian-Blessing Company. No. 130,151; Apr. 13; v. 273; p. 401.
Toy aeroplanes. J. O. Howard. No. 130,522; Apr. 27; v. 273; p. 803.
Toy molds. H. B. Minnick. No. 130,551; Apr. 27; v. 273; p. 804.

Toys. Mechanical. Samuel Orkin Company. No. 130,099; Apr. 6; v. 273; p. 181.
Tractors. Midwest Engine Co. No. 130,212; Apr. 13; v. 273; p. 403.
Tractors. Southern Motor Manufacturing Association. No. 130,115; Apr. 6; v. 273; p. 181.
Tractors and tractor parts. J. D. Park. No. 130,384; Apr. 20; v. 273; p. 623.
Tractors, Internal-combustion motor-. Velie Motors Corporation. No. 130,589; Apr. 27; v. 273; p. 805.
Trousers. Samuel Rosenbaum & Sons Company. No. 130,565; Apr. 27; v. 273; p. 804.
Trucks, Motor-. The Commerce Motor Car Company. No. 130,477; Apr. 27; v. 273; p. 801.
Trucks, Motor. Winther Motor Truck Company. No. 130,448; Apr. 20; v. 273; p. 624.
Trunks. Hartmann Trunk Co. No. 130,068; Apr. 6; v. 273; p. 180.
Underwear. Robert C. King & Co. No. 130,327; Apr. 20; v. 273; p. 621.
Underwear and hosiery. Robert C. King & Co. No. 130,326; Apr. 20; v. 273; p. 621.
Uniforms, Naval. S. Zagoren. No. 130,450; Apr. 20; v. 273; p. 624.
Valve-lifting tools for internal-combustion engines. A. C. Rosenbrook. No. 130,397; Apr. 20; v. 273; p. 623.
Valves and parts thereof. O'Malley-Beare Valve Co. No. 130,381; Apr. 20; v. 273; p. 622.
Vegetables, Fresh. Henry Kaelin & Son. No. 130,076; Apr. 6; v. 273; p. 180.
Vehicle-signals, Electrically-operated traffic. J. S. Brown. No. 130,268; Apr. 20; v. 273; p. 619.
Vehicle-springs, fender-braces, shock-absorbers. A R G Auxiliary Spring Co. No. 130,150; Apr. 13; v. 273; p. 401.
Vehicles, Motor-. Elgin Motor Car Corporation. No. 130,294; Apr. 20; v. 273; p. 620.
Veils, malines, hair-nets, chiffons. Fuld, Traube & Co. No. 130,297; Apr. 20; v. 273; p. 620.
Volle. Burton Bros. & Co. No. 130,272; Apr. 20; v. 273; p. 619.
Waists and dresses. Ochs & Frank. No. 130,379; Apr. 20; v. 273; p. 622.
Walnut-meats. California Walnut Growers Association. No. 130,162; Apr. 13; v. 273; p. 401.
Washboards. Krenning-Schlapp Grocer Company. No. 130,081; Apr. 6; v. 273; p. 180.
Washing fluid. J. Schmitz. No. 130,405; Apr. 20; v. 273; p. 623.
Washing-machines. Blue Bird Manufacturing Company. No. 130,042; Apr. 6; v. 273; p. 174.
Washing machines, Laundry-. Voss Bros. Mfg. Co. No. 130,133; Apr. 6; v. 273; p. 182.
Washing-machines, Laundry power. Automatic Electric Washer Co. No. 130,037; Apr. 6; v. 273; p. 179.
Water and beverages made from same, Natural spring-. Chippewa Springs Corporation. No. 130,164; Apr. 13; v. 273; p. 401.
Waterproof truck and tractor covers, tarpaulins, &c. Dafoe-Eustice Company. No. 130,171; Apr. 13; v. 273; p. 401.
Waterproofing-oils for leather. A. W. Zieseniss. No. 130,141; Apr. 6; v. 273; p. 182.
Watch materials. Waltham Watch Company. No. 130,437; Apr. 20; v. 273; p. 624.
Watches. Knickerbocker Watch Co. Nos. 130,331–2; Apr. 20; v. 273; p. 621.
Watches. M. Schussler & Co. No. 130,408; Apr. 20; v. 273; p. 623.
Watches and clocks, Luminous hand for. Hinds Luminous Compound Company. No. 130,316; Apr. 20; v. 273; p. 621.
Water-heaters, Electric. Pemelco Sales Co. No. 130,385; Apr. 20; v. 273; p. 623.
Wire and wire fencing, Fence-. American Steel & Wire Company of New Jersey. No. 130,457; Apr. 27; v. 273; p. 801.
Wire door-springs, Helical. American Steel and Wire Company of New Jersey. No. 130,456; Apr. 27; v. 273; p. 801.
Wire meat-broilers. H. J. Chamberlin, Inc. No. 130,277; Apr. 20; v. 273; p. 619.
Woolen piece goods. Worumbo Manufacturing Company. No. 130,595; Apr. 27; v. 273; p. 805.
Wrenches. W. Worcester. No. 130,244; Apr. 13; v. 273; p. 404.
Wrenches, screw-drivers, hammers. Herbrand Co. No. 130,511; Apr. 27; v. 273; p. 803.
Yarn. Marshall Field & Company. No. 130,544; Apr. 27; v. 273; p. 804.
Yarn. H. F. Salisbury. No. 130,569; Apr. 27; v. 273; p. 804.

ALPHABETICAL LIST OF LABELS.

"Armory Brand." (For Canned Food Products.) Walker-Matteson Co. No. 21,803; Apr. 13; v. 273; p. 405.
"Assorted Charms." (For Fruit Tablets—Namely, Charms, Assorted Flavor.) Charms Company. No. 21,847; Apr. 27; v. 273; p. 806.
"Baker's Pride." (For Bread.) Sanitwax Paper Co. No. 21,837; Apr. 20; v. 273; p. 627.
"Barlow-Kimnet." (For Metal and Wood Display Wax Figures, Forms, and Stove-Display Equipment.) The Barlow-Kimnet Co. No. 21,806; Apr. 20; v. 273; p. 627.
"Bowman's Nu-Like-Brand Auto Finishes Eclipse Auto Top Waterproofing." (For a Dressing.) J. A. Bowman. No. 21,808; Apr. 20; v. 273; p. 627.
"Butter Charms." (For Fruit Tablets—Namely, Charms, Butter Flavor.) Charms Company. No. 21,849; Apr. 27; v. 273; p. 806.
"Candles." (For Candy.) Milwaukee Paper Box Company. No. 21,794; Apr. 13; v. 273; p. 405.
"Canned Food—the Miracle on Your Table." (For Canned Goods.) National Canners Association. No. 21,774; Apr. 6; v. 273; p. 183.
"Charcoal Tooth Paste." (For Tooth-Paste.) P. A. Mandabach. No. 21,793; Apr. 13; v. 273; p. 405.
"Chief Joseph." (For Fresh Fruits.) Ryan Fruit Co. No. 21,835; Apr. 20; v. 273; p. 627.
"Cherry-Tang." (For Cherry-Syrup.) C. A. Connor Ice Cream Company. No. 21,766; Apr. 6; v. 273; p. 183.
"Clove Charms." (For Fruit Tablets—Namely, Charms, Clove Flavor.) Charms Company. No. 21,818; Apr. 20; v. 273; p. 627.
"Cowan's Preferred Coffee." (For Coffee.) Earl Cowan Co. Inc. No. 21,778; Apr. 13; v. 273; p. 405.
"Cream of Cane." (For Syrup.) J. R. Cargill. No. 21,812; Apr. 20; v. 273; p. 627.
"Evaporated Washington Apples." (For Evaporated Apples.) Northwest Evaporating Company. No. 21,795; Apr. 13; v. 273; p. 405.
"Falls." (For Coffee.) Dwinell-Wright Company. No. 21,779; Apr. 13; v. 273; p. 405.
"Fisher's W J F." (For Apples.) W. J. Fisher & Co. No. 21,822; Apr. 20; v. 273; p. 627.
"Grape Charms." (For Fruit Tablets—Namely, Charms, Grape Flavor.) Charms Company. No. 21,817; Apr. 20; v. 273; p. 627.
"Grapelade." (For a Spread for Bread, Toast, and Biscuit.) The Welch Grape Juice Company. No. 21,843; Apr. 20; v. 273; p. 627.
"Grape-Tang." (For Grape-Syrup.) C. A. Connor Ice Cream Company. No. 21,767; Apr. 6; v. 273; p. 183.
"Goodies." (For Candy.) Milwaukee Paper Box Company. No. 21,832; Apr. 20; v. 273; p. 627.
"J. Handler Lacoin." (For Stains and Varnishes.) J. Handler. No. 21,784; Apr. 13; v. 273; p. 405.
"Handy Candy Licorice." (For Licorice Tablets.) Beech-Nut Packing Company. No. 21,807; Apr. 20; v. 273; p. 627.
"Horehound Charms." (For Fruit Tablets—Namely, Charms, Hoarhound Flavor.) Charms Company. No. 21,846; Apr. 27; v. 273; p. 806.
"Jack-O-Dandy." (For Candies—Namely, Suckers.) Weber-Schiltz Candy Company. No. 21,841; Apr. 20; v. 273; p. 627.
"Jetto Black Dye." (For Black Dyes.) Shine-Easy Shoe Polish Company. No. 21,798; Apr. 13; v. 273; p. 405.
"Kellogg's Roasted Korn Krisp." (For Roasted Korn Krisp.) Kellogg Toasted Corn Flake Co. No. 21,787; Apr. 13; v. 273; p. 405.
"Kellogg's Shredded Krumbles." (For Shredded Krumbles.) Kellogg Toasted Corn Flake Co. No. 21,786; Apr. 13; v. 273; p. 405.
"Keystone Brand." (For Cherries.) Keystone Fruit Products Co. No. 21,788; Apr. 13; v. 273; p. 405.
"Laske's Natural Leaf Clippings." (For Tobacco-Clippings.) J. Laske. No. 21,830; Apr. 20; v. 273; p. 627.
"Latapep." (For a Medicinal Tonic.) E. M. Welch. No 21,775; Apr. 6; v. 273; p. 183.
"La Tosca Sleepers." (For Children's Sleeping-Garments.) La Tosca Knitting Co. Nos. 21,769–70; Apr. 6; v. 273; p. 183.
"Laxative Chocolate Bar." (For Laxative Chocolate Bars.) P. A. Mandabach. No. 21,792; Apr. 13; v. 273; p. 405.
"Lemon Charms." (For Fruit Tablets—Namely, Charms, Lemon Flavor.) Charms Company. No. 21,816; Apr. 20; v. 273; p. 627.
"Liksom Delicious Bread." (For Bread.) C. D. Graves. No. 21,824; Apr. 20; v. 273; p. 627.
"Lime Charms." (For Fruit Tablets—Namely, Charms, Lime Flavor.) Charms Company. No. 21,814; Apr. 20; v. 273; p. 627.
"Lou-An-Gene Hair Grower." (For a Hair-Grower.) Mrs. M. L. Brookins. No. 21,809; Apr. 20; v. 273; p. 627.

"Lou-Au-Gene Pressing Oil." (For a Hair-Dressing.) Mrs. M. L. Brookins. No. 21,810; Apr. 20; v. 273; p. 627.
"Lou-Au-Gene Skin Bleach." (For a Cream for Cleaning the Skin.) Mrs. M. L. Brookins. No. 21,811; Apr. 20; v. 273; p. 627.
"Magnolia." (For Cigars.) Magnolia Cigar Company. No. 21,790; Apr. 13; v. 273; p. 405.
"Mentho-Malted Horehound Kisses." (For Hoarhound Kisses.) P. A. Mandabach. No. 21,791; Apr. 13; v. 273; p. 405.
"Mid-Valley Brand Maine Style Sweet Corn." (For Sweet Corn.) Middletown Packing Co. No. 21,831; Apr. 20; v. 273; p. 627.
"Mohawk Sweaters." (For Sweaters.) Mohawk Valley Cap Factory. No. 21,773; Apr. 6; v. 273; p. 183.
"Mohawk Knit Caps." (For Knitted Caps.) Mohawk Valley Cap Factory. No. 21,772; Apr. 6; v. 273; p. 183.
"Monte Carlo Brand." (For Oranges, Grape-Fruit, and Tangerines.) Lake Reedy Packing Company. No. 21,828; Apr. 20; v. 273; p. 627.
"Novelite Spreads." (For Bedspreads.) B. F. Bailey & Co. No. 21,777; Apr. 13; v. 273; p. 405.
"Odorlac Foot-Ease Powder Co." (For a Foot-Powder.) S. Ceitlin. No. 21,813; Apr. 20; v. 273; p. 627.
"Old Dutch." (For Non-Intoxicating Cereal Beverage.) The Krantz Products Company. No. 21,789; Apr. 13; v. 273; p. 405.
"100%." (For Oranges.) Ryan Fruit Co. No. 21,836; Apr. 20; v. 273; p. 627.
"Orange Charms." (For Fruit Tablets—Namely, Charms, Orange Flavor.) Charms Company. No. 21,820; Apr. 20; v. 273; p. 627.
"Orange-Tang." (For Orange-Syrup.) C. A. Connor Ice Cream Co. No. 21,768; Apr. 6; v. 273; p. 183.
"Overland." (For Apples.) Welser Air Storage Co. No. 21,804; Apr. 13; v. 273; p. 405.
"Panama Soap." (For Soap.) R. W. Baker. No. 21,805; Apr. 20; v. 273; p. 627.
"Peach Charms." (For Fruit Tablets—Namely, Charms, Peach Flavor.) Charms Company. No. 21,819; Apr. 20; v. 273; p. 627.
"Peachlade." (For Bread, Toast, and Muffins.) The Welch Grape Juice Company. No. 21,842; Apr. 20; v. 273; p. 627.
"Peggy Peach Doll Outfit." (For A Material For Doll-Dresses.) M. G. Baumann. No. 21,845; Apr. 27; v. 273; p. 806.
"Quick Whip." (For an Egg Product.) The International Company. No. 21,785; Apr. 13; v. 273; p. 405.
"Raspberry Charms." (For Fruit Tablets—Namely, Charms, Raspberry Flavor.) Charms Company. No. 21,848; Apr. 27; v. 273; p. 806.
"Red Seal." (For Malt Syrup.) Western Malt Products Co. No. 21,838; Apr. 20; v. 273; p. 627.
"Roberts Turkey Brand Corned Meats." (For Cooked Corned Meats.) G. H. Roberts. No. 21,834; Apr. 20; v. 273; p. 627.
"School House." (For Coffee.) Dwinell-Wright Company. No. 21,781; Apr. 13; v. 273; p. 405.
"Shine-Easy Shoe Polish." (For Shoe-Polish.) Shine-Easy Shoe Polish Company. No. 21,799; Apr. 13; v. 273; p. 405.
"69." (For a Medicine.) B. V. Lares. No. 21,829; Apr. 20; v. 273; p. 627.
"Smith's Hand-Made Candy." (For Candy.) E. A. Smith. No. 21,839; Apr. 20; v. 273; p. 627.
"Star & Crescent." (For Coffee.) Dwinell-Wright Company. No. 21,780; Apr. 13; v. 273; p. 405.
"State Seal Brand." (For Fresh Apples.) Pacific Fruit & Produce Company. No. 21,851; Apr. 27; v. 273; p. 806.
"Superyarn." (For Yarn.) Yarn Clearing House. No. 21,833; Apr. 20; v. 273; p. 627.
"Supreme." (For Oranges, Grape-Fruit, and Tangerines.) Lake Reedy Packing Company. No. 21,827; Apr. 20; v. 273; p. 627.
"The Drink that kept Milwaukee Famous." (For Fruit Nectar.) Ex-Zact Food Products Co. No. 21,782; Apr. 13; v. 273; p. 405.
"The Finishing Touch." (For Unicum Hair-Nets.) T. H. Gary Co. No. 21,823; Apr. 20; v. 273; p. 627.
"The Fly Catcher U-Hang-Up." (For Flycatchers of Paper-Ribbon Type.) Graef & Russell. No. 21,783; Apr. 13; v. 273; p. 405.
"Thrift." (For Paint.) The R. F. Johnston Paint Company. No. 21,825; Apr. 20; v. 273; p. 627.
"Thurber's Bartlett Pears." (For Canned Bartlett Pears.) Alfred Putnam & Company. No. 21,797; Apr. 13; v. 273; p. 405.
"Thurber's Windham Corn." (For Canned Corn.) Alfred Putnam & Company. No. 21,796; Apr. 13; v. 273; p. 405.
"Tube-Lock." (For Patches for Rubber, &c.) Kreider Auto Needs Co. No. 21,826; Apr. 20; v. 273; p. 627.
"Underwood's Sardines in Mustard Dressing." (For Sardines.) William Underwood Company. No. 21,800; Apr. 13; v. 273; p. 405.
"Underwood's Sardines in Oil." (For Sardines.) William Underwood Company. No. 21,801; Apr. 13; v. 273; p. 405.
"Vogt's Philadelphia Scrapple." (For Scrapple.) F. G. Vogt & Sons, Incorporated. No. 21,802; Apr. 13; v. 273; p. 405.
"Walton's Searchlight Wheat Hearts." (For a Cereal Food—Namely, Wheat Hearts.) Walton Milling Company. No. 21,840; Apr. 20; v. 273; p. 627.
"Washer Maid." (For Soap.) The Washer Maid Company. No. 21,752; Apr. 27; v. 273; p. 806.
"White Top." (For Marshmallow Creme Preparation.) American Biscuit Company. No. 21,844; Apr. 27; v. 273; p. 806.
"Wild Cherry Charms." (For Fruit Tablets—Namely, Charms, Wild-Cherry Flavor.) Charms Company. No. 21,815; Apr. 20; v. 273; p. 627.
"Workmanship, Quality, Service." (For Boots and Shoes.) Lynchburg Shoe Company. No. 21,771; Apr. 6; v. 273; p. 183.
"Wright's Mouse Killer, not a poison." (For a Non-Poisonous Powder for Killing Rats and Mice.) R. B. Wright. No. 21,776; Apr. 6; v. 273; p. 183.
"Xtra-Good." (For Automobile-Tire Pumps.) Hartford Metal Products Company, The. No. 21,850; Apr. 27; v. 273; p. 806.
"Yakival." (For Apples.) Cloud-Thomas Co. No. 21,821; Apr. 20; v. 273; p. 627.

ALPHABETICAL LIST OF PRINTS.

"A Matter of Good Taste." (For Chocolates.) Johnson Biscuit Company. No. 5,248; Apr. 20; v. 273; p. 628.
"Angelus Marshmallows." (For Marshmallows.) Rueckheim Bros. & Eckstein. No. 5,249; Apr. 20; v. 273; p. 628.
"Bankers' Diamond Selection Service." (For Diamonds.) Jacob Bennett Inc. No. 5,240; Apr. 13; v. 273; p. 406.
"Canned Food—The Miracle on Your Table." (For Canned Foods.) National Canners Association. No. 5,239; Apr. 6; v. 273; p. 183.
"Learning to Drink Martin's Calf Feed." (For Calf Feed.) Martin Calf Feed Company. No. 5,241; Apr. 13; v. 273; p. 406.
"Oak." (For Oak Flooring.) Oak Flooring Manufacturing Association. No. 5,253; Apr. 20; v. 273; p. 628.
"P. A. has such a joy'us way of making men glad about jimmy pipes!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,244; Apr. 13; v. 273; p. 406.
"P. A. plays such a glad tune in that old jimmy pipe!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,242; Apr. 13; v. 273; p. 406.
"Palzo." (For A Cleanser.) Runyan Chemical Products Co. No. 5,254; Apr. 27; v. 273; p. 806.
"Palzo The Great American Cleaner." (For a Cleaner.) Runyan Chemical Products Co. No. 5,250; Apr. 20; v. 273; p. 628.
"Sun Flakes Give Your Washable Garments a Sun Flake Bath." (For Soaps in Flake Form.) Sunbeam Chemical Company. No. 5,255; Apr. 27; v. 273; p. 806.
"System Cleaners." (For Laxative Tablets.) Septole Hygiene Co. No. 5,252; Apr. 20; v. 273; p. 628.
"Taking Care of Ball Bearings of Our A-B-C Grinding Line." (For Ball Bearings of Our A-B-C Grinding Line of Flour and Feed Grinders.) William Patent Crusher & Pulverizer Co. No. 5,251; Apr. 20; v. 273; p. 628.
"The Haynes Sedan." (For Automobiles.) The Haynes Automobile Company. No. 5,247; Apr. 20; v. 273; p. 628.
"The New Series Haynes Possesses Four Vital Factors." (For Automobiles.) Haynes Automobile Company. No. 5,246; Apr. 20; v. 273; p. 628.
"Virginia Fairy or Lucky Stone Co." (For Virginia Fairy or Lucky Stones.) E. E. Haley. No. 5,245; Apr. 20; v. 273; p. 628.
"You've got 'em Breaking Right." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,243; Apr. 13; v. 273; p. 406.

DISCLAIMERS.

Adding and recording machine. H. Landsiedel. No. 1,225,655; date of patent May 8, 1917; disclaimer filed Apr. 5, 1920; v. 273; p. 413.
Doll. G. Averill. No. 1,269,363; date of patent June 11, 1918; disclaimer filed Jan. 13, 1920; v. 273; p. 190.

CLASSIFICATION OF PATENTS

APRIL, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 7: 1,336,251
33: 1,338,013
56: 1,337,212
2— 15: 1,336,614
1,337,698
41: 1,337,917
57: 1,336,577
61: 1,336,248
1,338,098
73: 1,336,279
1,337,224
91: 1,337,989
94: 1,336,339
104: 1,336,763
1,337,879
1,337,957
106: 1,337,397
108: 1,337,506
114: 1,338,283
118: 1,338,187
126: 1,337,901
144: 1,337,883
145: 1,336,303
149: 1,336,009
1,337,036
1,337,420
1,338,022
1,338,505
3— 2: 1,338,243
3: 1,335,781
12: 1,338,155
4— 5: 1,335,763
1,338,638
12: 1,336,249
13: 1,336,774
18: 1,337,643
1,337,730
19: 1,337,829
24: 1,335,946
26: 1,336,034
5— 1: 1,335,961
4: 1,336,480
13: 1,335,965
16: 1,336,062
17: 1,337,497
29: 1,337,320
37: 1,337,321
39: 1,335,984
40: 1,338,490
41: 1,336,003
1,336,197
43: 1,336,294
47: 1,337,580
55: 1,336,282
1,337,012
1,337,150
1,337,340
1,337,626
1,337,627
1,337,799
57: 1,336,302
58: 1,336,240
64: 1,336,397
69: 1,337,508
71: 1,336,943
6— 2: 1,336,523
7— 1: 1,338,542
13: 1,338,188
1,338,420
8— 1: 1,338,346
1,338,349
1,338,397
1,338,414
1,338,506
2: 1,337,306
6: 1,337,673
18: 1,335,925
1,337,877
1,338,217
1,338,218
19: 1,337,009
9— 2: 1,337,781
9: 1,337,383
11: 1,336,872
20: 1,336,400
22: 1,336,075
1,336,394
10— 1: 1,338,083
27: 1,336,213
61: 1,337,430
10— 76: 1,338,244
126: 1,336,575
11— 2: 1,336,944
12— 2: 1,335,779
1,336,875
22: 1,337,290
33: 1,338,434
55: 1,338,000
57: 1,336,750
105: 1,335,786
125: 1,336,002
126: 1,337,190
136: 1,338,650
142: 1,337,990
147: 1,336,784
13— 17: 1,336,007
18: 1,336,046
14— 41: 1,337,187
15— 13: 1,337,819
15: 1,337,477
17: 1,336,349
1,337,199
20: 1,337,503
25: 1,338,586
28: 1,336,044
30: 1,337,856
38: 1,338,424
39: 1,337,173
40: 1,337,056
46: 1,336,284
49: 1,337,998
50: 1,335,896
51: 1,336,604
52: 1,336,390
59: 1,338,002
60: 1,336,078
1,336,760
1,336,994
16— 4: 1,338,249
1,338,356
5: 1,336,171
1,338,260
9: 1,338,073
10: 1,337,384
1,337,918
11: 1,337,817
1,338,251
48: 1,337,689
49: 1,335,999
72: 1,338,325
77: 1,336,527
1,337,042
88: 1,337,763
103: 1,337,273
112: 1,336,780
151: 1,337,344
17— 10: 1,337,375
11: 1,336,524
1,336,887
20: 1,337,955
24: 1,337,596
30: 1,336,472
1,338,452
18— 1: 1,336,319
2: 1,337,532
1,337,536
8: 1,337,258
12: 1,338,120
18: 1,336,220
1,337,631
1,338,233
19: 1,338,470
35: 1,337,930
38: 1,335,783
45: 1,337,707
1,337,910
1,338,669
52: 1,335,926
53: 1,337,802
59: 1,336,911
1,338,314
19— 2: 1,337,470
10: 1,336,402
1,337,067
15: 1,338,651
16: 1,338,329
20— 1: 1,336,471
2: 1,337,745
1,337,746
14: 1,335,747
20— 10: 1,333,838
1,338,027
22: 1,337,261
32: 1,336,068
52.1: 1,336,145
56.4: 1,337,565
69: 1,335,920
1,337,394
1,338,403
79: 1,338,332
84: 1,337,088
86: 1,336,141
87: 1,336,283
1,336,672
92: 1,336,193
21— 31: 1,337,271
1,338,471
69: 1,336,254
1,336,334
1,336,335
1,336,336
1,336,337
1,336,338
1,337,889
1,338,177
1,338,410
75: 1,338,138
78: 1,335,971
150: 1,336,387
1,336,832
1,336,871
1,336,876
1,337,787
1,338,059
1,338,060
1,338,402
209: 1,336,074
1,336,791
212: 1,336,149
1,338,299
227: 1,338,105
22— 20: 1,337,268
22: 1,338,162
26: 1,337,780
36: 1,337,585
69: 1,338,622
79: 1,336,767
1,337,256
85: 1,338,001
102: 1,338,519
111: 1,335,818
139: 1,336,459
173: 1,336,242
177: 1,336,260
180: 1,336,259
188: 1,338,141
204: 1,335,862
209: 1,336,768
216: 1,336,231
23— 1: 1,335,743
1,337,141
1,337,561
1,338,417
1,338,418
3: 1,336,043
1,337,975
5: 1,338,322
10: 1,336,974
1,338,654
13: 1,336,425
1,336,508
1,336,957
1,337,019
1,337,191
1,337,192
1,337,239
1,337,750
1,338,428
1,338,473
21: 1,335,891
1,337,665
1,337,903
1,338,357
22: 1,335,949
1,338,234
1,338,235
24: 1,335,182
1,336,704
1,336,759
1,336,952
23— 24: 1,337,253
1,337,317
1,338,040
1,338,297
1,338,363
1,338,364
1,338,661
24— 3: 1,336,083
9: 1,336,744
10: 1,337,963
18: 1,336,168
38: 1,335,830
40: 1,336,146
49: 1,336,618
66: 1,336,834
68: 1,336,679
1,337,534
69: 1,337,419
71: 1,338,341
73: 1,336,383
1,337,846
83: 1,336,156
87: 1,337,073
88: 1,336,692
97: 1,336,880
101: 1,336,147
102: 1,337,889
108: 1,336,243
123: 1,336,482
125: 1,338,062
134: 1,337,159
139: 1,337,434
152: 1,336,273
153: 1,337,598
157: 1,337,114
1,338,280
170: 1,338,535
1,338,536
171: 1,337,965
191: 1,337,181
208: 1,337,785
211: 1,337,938
214: 1,337,117
1,337,118
215: 1,337,115
1,337,116
217: 1,337,119
231: 1,337,577
241: 1,336,666
245: 1,336,312
1,337,131
258: 1,336,129
261: 1,337,697
25— 14: 1,337,871
30: 1,336,865
41: 1,336,539
1,337,618
63: 1,336,164
121: 1,337,493
1,338,468
125: 1,336,712
127: 1,336,857
1,336,867
129: 1,337,663
130: 1,337,074
132: 1,337,298
142: 1,337,454
153: 1,336,762
156: 1,336,180
26— 16: 1,336,385
1,338,513
27— 7: 1,335,722
22: 1,338,579
28— 4: 1,337,269
1,337,270
6: 1,336,649
14: 1,337,727
20: 1,336,148
24: 1,337,155
29— 5: 1,337,669
27: 1,338,456
69: 1,338,501
73: 1,336,443
1,337,147
78: 1,335,866
80: 1,337,940
84: 1,336,291
1,337,097
85: 1,337,233
86.1: 1,337,670
29— 86.2: 1,336,938
87.1: R. 14,845
1,336,202
88.2: 1,338,495
89: 1,336,912
1,337,847
95: 1,336,209
98: 1,336,155
103: 1,335,892
1,338,158
148: 1,336,576
1,336,689
1,336,800
156.1: 1,337,551
157: 1,337,001
1,338,419
159: 1,336,493
1,337,808
164: 1,335,808
1,335,914
174: 1,336,332
1,336,333
182: 1,336,449
30— 1: 1,336,662
3: 1,336,126
1,337,148
1,337,514
1,338,643
10: 1,335,847
1,337,769
11: 1,338,216
12: 1,335,840
1,336,923
1,336,969
1,337,166
1,337,429
1,337,435
1,338,305
1,338,507
13: 1,337,263
14: 1,338,248
17: 1,336,464
22: 1,337,174
23: 1,335,777
24: 1,338,281
98: 1,338,182
101: 1,335,953
102: 1,337,211
32— 4: 1,337,622
6: 1,338,415
9: 1,335,717
1,335,734
10: 1,335,825
20: 1,336,746
33— 3: 1,338,623
9: 1,338,602
26: 1,336,241
47: 1,336,165
53: 1,338,121
55: 1,338,183
58: 1,338,382
72: 1,336,010
85: 1,336,004
90: 1,337,107
95: 1,337,823
98: 1,336,102
127: 1,337,240
129: 1,336,265
133: 1,336,230
134: 1,337,891
147: 1,337,018
161: 1,338,176
167: 1,337,165
185: 1,337,243
194: 1,336,423
197: 1,336,157
199: 1,336,189
215: 1,336,694
1,338,639
217: 1,336,289
31— 5: 1,336,422
17: 1,337,035
18: 1,338,071
34: 1,337,220
35— 5: 1,335,923
16: 1,338,068
36— 6: 1,336,962
14: 1,336,355
17: 1,337,219
34: 1,337,639
36— 40: 1,336,194
42: 1,338,580
59: 1,337,962
60: 1,335,945
63: 1,336,276
71: 1,335,981
1,336,278
1,336,979
73: 1,337,983
37— 5: 1,337,355
7: 1,335,906
9: 1,337,279
24: 1,336,595
1,336,658
29: 1,335,932
1,336,657
42: 1,336,215
50: 1,337,426
62: 1,336,016
39— 28: 1,337,897
40— 2: 1,336,270
1,336,745
1,337,586
5: 1,337,722
10: 1,338,181
11: 1,337,816
16: 1,336,723
27: 1,335,995
30: 1,336,411
31: 1,336,032
42: 1,336,268
1,336,907
53: 1,338,523
65: 1,337,315
66: 1,337,401
70: 1,336,739
77: 1,336,772
78: 1,336,585
124: 1,335,822
125: 1,338,422
130: 1,336,517
1,336,706
1,338,532
130.2: 1,338,198
132: 1,336,035
1,337,728
1,337,872
145: 1,335,870
1,337,947
1,338,384
154: 1,338,441
155: 1,338,258
41— 33: 1,335,755
42— 3: 1,337,444
1,338,649
17: 1,337,292
18: 1,337,378
46: 1,338,381
57: 1,338,458
70: 1,335,988
91: 1,337,104
43— 18: 1,336,088
20: 1,336,356
22: 1,338,113
37: 1,336,987
48: 1,336,227
59: R 14,840
69: 1,335,882
1,337,044
88: 1,337,149
125: 1,336,822
142: 1,338,587
45— 2: 1,336,183
1,337,575
13: 1,335,881
1,336,408
17: 1,338,034
24: 1,335,806
28: 1,337,535
1,337,852
31: 1,336,818
1,338,254
32: 1,338,097
33: 1,336,321
48: 1,338,202
50: 1,337,311
51: 1,337,886
52: 1,335,967
53: 1,336,981
82: 1,336,275

45— 99: 1,338,267
112: 1,337,092
113: 1,338,558
115: 1,335,859
120: 1,337,545
122: 1,336,954
133: 1,337,625
135: 1,336,345
137: 1,335,842
46— 4: 1,336,671
1,337,958
12: 1,335,924
14: 1,336,756
1,337,483
21: 1,337,274
1,338,475
22: 1,337,479
27: 1,337,820
32: 1,338,572
1,338,573
1,338,574
1,338,575
35: 1,336,434
1,336,626
1,337,171
1,337,664
37: 1,335,900
1,337,758
40: 1,335,804
1,336,898
1,337,354
41: 1,336,541
1,337,691
45: 1,337,705
1,338,449
46: 1,335,555
51: 1,326,879
59: 1,336,556
1,337,892
1,338,184
61: 1,337,570
1,337,773
63: 1,338,493
1,338,502
64: 1,336,109
69: 1,336,910
47— 12: 1,336,580
1,337,803
1,338,612
25: 1,336,307
35: 1,335,845
48— 25: 1,336,573
52: 1,337,805
102: 1,337,108
202: 1,337,537
49— 2: 1,338,500
5: 1,338,604
7: 1,335,733
1,338,499
9: 1,337,723
14: 1,336,028
1,336,317
17: 1,338,261
17.1: 1,336,056
47: 1,338,240
53: 1,338,109
55: 1,338,214
63: 1,337,633
50— 14: 1,337,248
26: 1,335,903
51— 1: 1,336,751
1,338,568
3: 1,336,685
4: 1,335,905
1,335,979
1,335,994
1,336,011
1,337,139
1,337,140
1,337,617
1,338,178
1,338,212
1,338,355
7: 1,335,813
1,336,200
1,336,593
1,338,319
1,338,320
11: 1,336,521
1,338,406
12: 1,337,353
13: 1,337,352
20: 1,336,698
1,337,597
52— 3: 1,336,403
1,336,661
1,337,451
4: 1,335,785
5: 1,338,389
6: 1,335,788
1,335,789
1,335,790
53— 1: 1,337,010
1,337,876
1,337,981
1,338,129
53— 1: 1,338,547
3: 1,335,761
1,336,491
1,337,964
5: 1,336,565
1,337,043
1,337,122
6: 1,336,292
1,338,344
9: 1,336,869
1,338,553
10: 1,336,734
54— 7: 1,335,964
46: 1,335,826
56: 1,338,610
55— 1: 1,338,391
9: 1,336,313
19: 1,336,642
44: 1,337,499
59: 1,336,024
60: 1,336,976
70: 1,335,878
77: 1,337,241
1,337,425
83: 1,336,676
1,336,687
1,337,448
107: 1,335,962
1,337,481
128: 1,336,421
146: 1,336,861
1,338,459
56— 7: 1,338,285
27: 1,337,452
32: 1,336,176
105: 1,336,578
220: 1,337,193
226: 1,336,536
232: 1,337,655
249: 1,338,144
258: 1,338,199
284: 1,335,897
295: 1,336,257
316: 1,336,267
320: 1,337,863
326: 1,338,272
335: 1,336,648
344: 1,336,065
360: 1,338,215
57— 9: 1,337,101
58— 4: 1,336,150
24: 1,338,309
1,338,328
56: 1,338,221
104: 1,338,609
117: 1,336,203
127.5: 1,336,204
59— 99: 1,338,085
60— 12: 1,336,392
1,337,323
15: 1,336,668
16: 1,336,616
1,338,159
23: 1,337,764
61— 39: 1,338,503
42: 1,338,030
43: 1,337,176
44: 1,337,751
46: 1,336,188
1,337,533
70: 1,335,775
84: 1,338,237
89: 1,337,096
62— 12: 1,336,048
45: 1,336,789
116: 1,337,175
118: 1,337,888
143: 1,336,172
64— 4: 1,335,736
5: 1,338,493
1,338,495
8: 1,336,542
10: 1,337,238
17: 1,337,135
18: 1,337,136
20: 1,338,491
22: 1,336,428
1,336,540
24: 1,336,373
1,337,201
1,337,202
1,337,203
1,337,597
1,338,160
25: 1,338,340
26: 1,336,413
27: 1,336,654
30: 1,335,833
36: 1,336,812
1,337,656
1,337,881
1,337,882
1,338,001
38: 1,337,028
39: 1,335,766
64— 47: 1,337,742
48: 1,337,987
55: 1,338,351
59: 1,336,352
91: 1,335,913
96: 1,335,740
1,337,646
102: 1,336,985
106: 1,338,122
65— 12: 1,335,998
26: 1,337,540
28: 1,337,814
53: 1,336,776
57: 1,337,789
66— 4: 1,337,294
24: 1,337,099
67— 19: 1,335,831
23: 1,336,635
50: 1,337,620
1,338,636
72: 1,337,795
1,337,825
105: 1,338,038
68— 3: 1,336,186
1,338,266
5: 1,338,277
9: 1,335,835
1,336,415
1,336,427
1,337,204
10: 1,335,857
1,336,433
1,337,512
1,337,936
18: 1,337,552
1,338,172
30: 1,337,810
1,338,442
31: 1,337,272
1,337,997
32: 1,335,957
1,336,883
37: 1,338,501
69— 2: 1,337,069
13: 1,336,597
70— 9: 1,337,085
14: 1,336,505
1,337,137
16: 1,338,515
26: 1,337,083
1,337,928
29: 1,336,080
31: 1,336,617
46: 1,335,321
1,337,511
47: 1,338,053
53: 1,337,242
55: 1,335,959
56: 1,337,243
74: 1,337,386
90: 1,336,384
1,337,568
1,337,709
1,338,512
105: 1,338,605
108: 1,338,150
112: 1,337,674
113: 1,336,309
126: 1,337,654
128: 1,338,131
129: 1,335,865
1,336,379
72— 6: 1,338,484
7: 1,337,559
15: 1,335,780
38: 1,338,509
43: 1,336,025
63: 1,336,683
66: 1,338,567
96: 1,336,718
107: 1,335,886
1,337,767
110: 1,336,547
111: 1,336,166
73— 24: 1,336,380
31: 1,336,511
1,337,969
51: 1,335,887
1,337,390
54: 1,335,904
110: 1,338,436
111: 1,336,104
1,337,455
151: 1,338,504
167: 1,338,358
74— 1: 1,336,803
1,336,847
5: 1,335,960
1,337,081
1,337,111
6: 1,337,417
7: 1,336,107
1,336,950
1,337,376
74— 7: 1,337,460
1,338,032
1,338,116
1,338,362
8: 1,336,498
13: 1,336,752
14: 1,335,898
1,336,322
1,336,703
1,336,963
1,337,280
1,337,908
1,338,078
1,338,427
16: 1,338,139
1,338,485
1,338,641
17: 1,337,138
1,338,171
21: 1,336,117
1,338,455
26: 1,335,809
1,336,581
1,336,747
34: 1,335,811
1,337,531
1,337,578
1,337,602
1,337,906
36: 1,336,286
1,336,758
1,337,395
1,338,377
38: 1,336,546
46: 1,335,911
1,335,980
1,336,606
1,337,992
50: 1,335,754
1,336,086
54: 1,336,108
56: 1,336,715
1,336,716
1,336,729
58: 1,336,796
59: 1,338,086
1,338,303
81: 1,336,856
1,337,685
84: 1,337,921
95: 1,338,196
99: 1,336,532
1,337,369
1,337,411
104: 1,335,745
1,337,635
106: 1,337,249
107: 1,336,462
108: 1,336,690
1,336,691
1,338,169
109: 1,335,951
1,336,342
1,336,670
1,337,651
75— 1: 1,335,982
1,335,983
1,335,991
1,335,992
1,336,081
1,337,093
1,337,209
1,337,210
1,337,276
1,338,517
1,338,518
18: 1,336,386
1,337,058
27: 1,336,256
58: 1,336,420
76— 30: 1,336,042
35: 1,338,173
37: 1,336,959
82: 1,337,154
77— 3: 1,337,393
19: 1,337,205
28: 1,336,955
55: 1,337,682
58: 1,336,311
1,336,466
1,337,015
78— 18: 1,338,462
26: 1,336,153
29: 1,337,520
30: 1,337,379
44: 1,337,474
50: 1,335,807
1,336,121
53.5: 1,336,073
54: 1,337,128
60: R. 14,835
80— 18: 1,337,640
54: 1,336,177
81— 3: 1,336,222
1,337,600
81— 3: 1,338,111
1,338,539
1,338,576
3.1: 1,337,158
1,337,899
9.5: 1,337,236
13: 1,337,084
17: 1,336,839
19: 1,336,229
1,336,754
33: 1,336,755
38: 1,336,087
1,336,610
55: 1,338,549
60: 1,338,257
66: 1,338,461
79: 1,337,986
91: 1,337,509
98: 1,337,678
1,338,313
113: 1,336,710
119: 1,337,102
120: 1,336,794
136: 1,337,550
145: 1,336,460
163: 1,338,376
177: 1,338,278
201: 1,336,589
82— 1: 1,337,079
33: 1,336,843
1,338,451
34: 1,337,387
40: 1,336,548
83— 8: 1,337,583
1,337,584
9: 1,336,364
1,337,033
1,337,641
10: 1,336,015
13: 1,336,703
15: 1,336,250
26: 1,336,530
1,337,134
1,338,126
30: 1,337,127
35: 1,336,848
38: 1,336,300
44: 1,337,567
45: 1,337,697
1,338,421
54: 1,337,822
56: 1,338,227
60: 1,336,538
1,336,637
64: 1,336,673
67: 1,336,697
1,336,963
1,336,968
73: 1,335,934
1,336,586
1,337,333
84: 1,338,613
85: 1,337,548
1,338,264
88: 1,335,824
1,336,327
84— 7: 1,336,359
10: 1,335,867
30: 1,335,791
78: 1,336,409
85: 1,337,937
87: 1,338,583
115: 1,337,459
121: 1,338,076
124: 1,337,041
125: 1,338,108
146: 1,337,793
85— 3: 1,336,162
4: 1,337,807
5: 1,338,317
11: 1,338,411
28: 1,338,154
46: 1,336,773
86— 20: 1,337,490
21: 1,336,674
87— 6: 1,338,307
1,338,308
9: 1,336,207
12: 1,337,339
17: 1,337,381
1,337,382
88— 1: 1,338,615
2.2: 1,337,912
16.4: 1,337,775
16.8: 1,336,996
17: 1,335,749
1,336,479
1,337,267
18: 1,336,775
18.4: 1,336,441
1,336,639
18.7: 1,335,817
1,337,418
19.3: R. 14,837
1,335,744
88— 19.3: 1,338,596
20: 1,337,265
33: 1,338,241
41: 1,338,508
1,338,526
42: 1,337,818
44: 1,338,171
47: 1,335,942
52: 1,335,823
1,337,330
56: 1,336,040
89— 1: 1,337,327
1,337,566
2: 1,335,839
13: 1,337,971
20: 1,337,004
27: 1,336,093
1,336,096
1,337,308
33: 1,337,893
40: 1,336,095
1,336,131
1,336,926
1,337,359
41: 1,336,094
90— 9: 1,335,864
11: 1,336,239
12.5: 1,337,052
14: 1,336,731
33: 1,335,871
1,336,621
1,336,885
58: 1,338,095
91— 2: 1,338,354
12.5: 1,336,886
14: 1,337,729
31: 1,336,528
39: 1,336,041
54.4: 1,337,684
59: 1,337,619
59.3: R. 14,833
1,336,806
1,337,053
1,337,350
1,338,624
92— 7: 1,337,704
1,338,496
21: 1,338,037
40: 1,335,910
43: 1,338,211
49: 1,338,094
93— 2: 1,336,549
1,336,838
1,337,845
3: 1,337,404
5: 1,337,693
36: 1,335,735
44: 1,338,552
61: 1,337,734
1,337,735
1,338,119
81: 1,335,894
94— 41: 1,337,953
95— 1.1: 1,336,330
1,337,423
53: 1,337,603
68: 1,336,377
73: 1,336,989
75: 1,335,860
97— 10: 1,336,217
11: 1,335,725
1,336,821
13: 1,337,407
14: 1,336,550
1,337,126
18: 1,337,868
25: 1,338,200
1,338,201
1,338,203
1,338,204
28: 1,337,076
1,338,123
30: 1,338,550
33: 1,338,594
41: 1,336,623
1,338,273
42: 1,335,928
45: 1,336,299
1,336,708
46: 1,336,727
50: 1,337,929
1,338,195
54: 1,338,559
66: 1,337,721
68: 1,337,870
98— 3: 1,336,590
4: 1,337,731
22: 1,336,470
27: 1,335,948
31: 1,335,929
54: 1,336,210
99— 2: 1,337,974
11: 1,337,027
1,337,850

99— 11: 1,338,231
15: 1,336,720
100— 50: 1,336,341
1,336,579
51: 1,336,171
57: 1,337,374
101— 20: 1,338,645
64: 1,337,970
66: 1,338,238
83: 1,335,746
89: 1,337,232
90: 1,338,230
212: 1,336,029
1,338,165
216: 1,338,347
232: 1,337,266
240: 1,336,988
250: 1,338,642
284: 1,337,186
287: 1,337,231
301: 1,337,591
345: 1,336,841
348: 1,337,574
363: 1,338,044
378: 1,336,721
389: 1,336,487
422: 1,336,995
102— 2: 1,335,996
3: 1,336,873
4: 1,337,063
29: 1,336,656
1,337,343
36: 1,337,525
1,337,960
39: 1,336,391
1,336,701
1,336,828
42: 1,337,993
103— 43: 1,337,916
44: 1,338,118
1,338,265
61: 1,337,556
63: 1,337,982
65: 1,336,920
67: 1,337,388
1,338,443
75: 1,337,834
1,338,338
76: 1,337,057
77: 1,336,258
79: 1,337,180
80: 1,337,993
109— 52: 1,337,347
57: 1,337,573
66: 1,336,082
69: 1,336,456
101: 1,337,121
130: 1,336,362
138: 1,336,732
249: 1,336,442
252: 1,337,944
1,337,945
258: 1,338,450
105— 28: 1,337,610
1,337,914
51: 1,337,334
62: 1,336,477
120: 1,336,553
144: 1,336,361
154: 1,336,370
160.5: 1,337,439
180: 1,335,759
208: 1,336,458
224: 1,336,436
262: 1,336,410
271: 1,338,010
307: 1,338,387
308: 1,336,134
341: 1,337,492
362: 1,338,392
364: 1,338,046
368: 1,336,201
369: 1,336,569
371: 1,336,682
376: 1,336,892
378: 1,337,348
391: 1,336,636
410: 1,336,864
106— 3: 1,338,393
9: 1,337,264
11: 1,336,740
18: 1,338,566
23: 1,336,858
27: 1,338,083
28: 1,338,117
35: 1,336,178
107— 7: 1,335,937
9: 1,337,152
19: 1,337,988
57: 1,335,915
58: 1,337,500
59: 1,336,782
63: 1,337,909
108— 5.4: 1,336,993
9: 1,335,756
108— 17: 1,336,118
22: 1,338,262
26: 1,337,840
109— 2: 1,336,347
3: 1,337,554
110— 18: 1,337,668
19: 1,338,125
22: 1,336,285
1,338,136
28: 1,336,125
1,338,454
177: 1,336,054
111— 1: 1,336,902
5: 1,337,184
6: 1,337,562
112— 9: 1,337,972
24: 1,337,650
33: 1,338,476
1,338,477
63: 1,336,824
110: 1,336,346
125: 1,336,825
158: 1,338,064
1,338,074
160: 1,336,340
252: 1,336,808
1,338,348
1,338,373
1,338,374
113— 16: 1,338,619
38: 1,338,335
48: 1,335,907
1,335,908
49: 1,336,388
51: 1,336,965
59: 1,335,873
1,337,677
80: 1,336,013
111: 1,337,406
112: 1,336,931
1,337,023
114— 15: 1,336,557
16: 1,336,287
1,337,110
20: 1,337,809
39: 1,336,226
45: 1,336,941
50: 1,337,601
51: 1,337,035
54: 1,337,250
68: 1,337,747
73: 1,336,018
1,336,019
1,336,020
77: 1,338,246
84: 1,336,866
118: 1,337,060
122: 1,335,893
123: 1,336,688
150: 1,337,475
177: 1,336,038
191: 1,336,702
208: 1,335,816
224: 1,336,295
236: 1,338,530
238: 1,336,110
240: 1,336,502
1,337,920
115— 11: 1,338,115
12: 1,337,442
26: 1,337,372
37: 1,336,770
116— 1: 1,338,637
2: 1,337,836
31: 1,337,553
1,337,848
33: 1,335,827
43: 1,336,699
46: 1,336,381
1,336,489
1,336,588
1,337,185
1,337,405
1,337,572
1,337,669
1,338,114
50: 1,336,106
1,338,112
51: 1,338,047
52: 1,336,644
1,336,713
1,337,991
53: 1,336,063
1,338,430
109: 1,338,197
118: 1,337,029
1,337,030
135: 1,337,319
138: 1,335,921
142: 1,337,162
143: 1,337,277
144: 1,336,594
173: 1,337,237
1,338,210
118— 32: 1,338,577
123— 171: 1,336,457
174: 1,336,613
1,337,555
1,337,576
175: 1,336,091
180: 1,336,144
187.5: 1,337,772
193: 1,338,342
197: 1,335,947
198: 1,338,017
124— 1: 1,337,934
12: 1,337,967
125— 2: 1,336,942
13: 1,336,563
40: 1,336,630
126— 1: 1,337,792
14: 1,336,599
17: 1,337,605
36: 1,337,112
39: 1,335,760
1,336,552
53: 1,337,413
67: 1,337,708
95: 1,336,753
96: 1,336,412
99: 1,336,675
100: 1,336,058
126: 1,336,700
147: 1,337,604
165: 1,336,766
175: 1,337,214
179: 1,338,070
214: 1,337,774
215: 1,337,524
271: 1,338,644
276: 1,335,941
284: 1,337,146
301: 1,338,378
317: 1,335,730
338: 1,335,844
341: 1,337,399
368: 1,337,800
128— 23: 1,337,225
73: 1,337,312
74: 1,337,145
76: 1,338,090
80: 1,336,001
88: 1,336,695
100: 1,336,513
105: 1,337,994
112: 1,337,790
140: 1,337,026
215: 1,336,061
216: 1,336,730
218: 1,338,386
239: 1,338,464
249: 1,336,109
252: 1,336,366
335: 1,336,376
327: 1,338,578
353: 1,337,841
129— 1: 1,336,438
4: 1,337,213
7: 1,336,998
16.5: 1,336,120
16.7: 1,336,115
16.8: 1,336,584
23: 1,336,495
41: 1,337,124
1,338,658
130— 1: 1,338,142
15: 1,336,958
32: 1,336,059
1,336,297
1,337,257
1,337,924
1,338,276
131— 6: 1,338,089
12: 1,336,233
1,336,393
38: 1,336,724
52: 1,338,529
132— 19: 1,338,388
22: 1,337,039
1,337,377
32: 1,336,216
133— 10: 1,337,941
134— 17: 1,338,286
22: 1,336,055
24: 1,337,749
53: 1,335,757
59: 1,337,402
66: 1,338,268
135— 4: 1,338,058
34: 1,336,219
36: 1,336,218
47: 1,336,638
54: 1,336,844
137— 13: 1,338,263
20: 1,336,310
35: 1,338,469
68: 1,336,769
1,336,905
72: 1,336,984
75: 1,338,075
137— 76: 1,336,211
93: 1,337,177
103: 1,337,064
1,338,541
104: 1,338,179
111: 1,336,917
122: 1,337,045
160: 1,336,354
1,338,520
139— 9: 1,336,516
18: 1,336,545
1,336,741
20: 1,337,259
22: 1,337,070
27: 1,336,805
46: 1,337,389
48: 1,337,055
51: 1,336,089
52: 1,336,077
78: 1,335,876
85: 1,337,883
1,337,726
140— 7: 1,336,343
32: 1,336,908
102: 1,337,504
102.5: 1,337,616
111: 1,338,425
143: 1,336,605
149: 1,336,159
141— 3: 1,337,303
7: 1,336,568
9: 1,335,853
10: 1,338,107
142— 5: 1,338,275
143— 43: 1,336,365
151: 1,337,016
158: 1,338,157
168: 1,336,799
144— 50: 1,336,246
1,337,109
61: 1,336,245
64: 1,336,244
1,336,247
117: 1,337,350
143: 1,337,428
144: 1,336,659
145: 1,337,695
155— 2: 1,335,950
7: 1,337,608
1,337,609
1,338,616
10: 1,337,295
12: 1,338,401
13: 1,336,641
24: 1,335,883
25: 1,336,525
26: 1,335,776
1,336,097
41: 1,335,973
43: 1,336,571
55: 1,335,938
77: 1,335,884
1,336,509
79: 1,337,103
81: 1,337,221
95: 1,337,059
136: 1,338,124
157: 1,336,510
169: 1,337,919
188: 1,338,582
156— 14: 1,335,854
17: 1,336,325
19: 1,338,168
23: 1,336,051
1,336,936
1,337,527
1,338,312
24: 1,335,954
1,336,047
1,337,594
1,337,615
1,337,768
1,338,591
26: 1,335,968
27: 1,337,370
38: 1,336,101
39: 1,338,223
44: 1,335,930
157— 1: 1,335,795
6: 1,336,916
158— 1: 1,336,980
1,337,703
1,338,438
7.5: 1,338,288
23.1: 1,338,327
27.4: 1,335,922
29: 1,336,261
33: 1,338,653
36: 1,335,792
1,336,717
1,338,008
1,338,323
38: 1,336,288
46: 1,337,038
53: 1,336,798
61: 1,338,361
170: R. 14,838
171: 1,335,989

158— 63: 1,336,108
1,336,208
76: 1,337,328
81: 1,337,498
99: 1,335,869
1,338,463
104: 1,337,824
109: 1,337,801
120: 1,338,633
161— 1: 1,337,680
2: 1,336,318
7: 1,336,937
8: 1,336,476
1,337,037
15: 1,337,014
1,337,335
23: 1,337,759
1,337,760
162— 1: 1,336,699
163— 8: 1,335,731
164— 21: 1,337,307
42: 1,335,728
45: 1,338,291
49: 1,337,208
1,337,464
51: 1,337,675
61: 1,338,551
62: 1,337,458
68: 1,337,778
76: 1,338,478
83: 1,338,296
86: 1,337,000
1,338,082
87: 1,336,622
94: 1,336,529
1,338,457
119: 1,338,300
122: 1,338,005
166— 8: 1,335,975
10: 1,336,738
19: 1,336,881
167— 3: 1,336,272
1,338,069
6: 1,337,538
10: 1,335,986
168— 15: 1,338,584
21: 1,337,194
48: 1,337,571
169— 23: 1,338,146
1,338,147
31: 1,338,166
32: 1,337,130
231: 1,338,148
170— 23: 1,336,315
163: 1,337,133
172: 1,338,516
171— 95: 1,336,399
118: 1,336,488
119: 1,337,854
1,337,942
123: 1,337,071
1,337,100
1,337,648
206: 1,338,093
209: 1,336,196
1,337,739
1,338,151
1,338,324
227: 1,337,686
229: 1,336,416
1,337,573
231: 1,338,041
242: 1,337,855
1,337,875
312: 1,336,520
314: 1,336,764
1,337,366
321: 1,338,092
322: 1,336,544
323: 1,335,936
172— 36: 1,338,568
179: 1,336,562
1,338,333
239: 1,337,732
274: 1,336,566
276: 1,336,561
1,338,367
1,338,368
288: 1,337,040
173— 259: 1,336,850
1,338,130
268: 1,336,290
269: 1,335,943
278: 1,336,475
1,336,502
1,336,932
1,336,940
324: 1,335,935
328: 1,336,587
332: 1,336,437
1,336,801
338: 1,336,431
340: 1,336,736
344: 1,336,608
358: 1,335,828

173— 358: 1,336,607
359: 1,338,226
360: 1,337,422
362: 1,336,395
366: 1,335,801
174— 89: 1,337,894
1,338,020
177: 1,337,798
175— 21: 1,338,132
1,338,133
1,338,134
30: 1,337,284
183: 1,335,940
1,335,985
1,336,424
1,337,160
1,337,853
1,338,180
1,338,521
215: 1,338,213
265: 1,335,738
273: 1,337,357
294: 1,336,158
1,337,129
1,337,856
1,338,331
314: 1,336,564
338: 1,338,548
356: 1,336,894
1,337,915
357: 1,335,837
1,338,260
361: 1,335,803
1,337,080
1,337,885
367: 1,336,928
177— 7: 1,336,519
314: 1,336,306
327: 1,337,299
339: 1,336,795
1,338,170
342: 1,336,889
353: 1,337,736
178— 2: 1,337,797
1,338,380
23: 1,337,783
63: 1,336,414
82: 1,338,497
88: 1,337,748
179— 6: 1,337,197
1,337,304
16: 1,338,350
17: R.14,846
1,338,370
18: 1,336,098
1,337,309
1,337,310
1,337,324
1,337,699
1,337,713
1,337,714
1,337,715
1,337,753
1,338,318
27: 1,337,482
1,337,671
1,337,681
1,337,710
1,337,711
1,337,712
1,337,740
1,337,782
27.5: 1,337,285
1,337,325
1,337,784
1,337,794
32: R.14,848
35: 1,337,755
40: 1,335,739
42: 1,337,301
43: 1,336,615
1,337,676
46: 1,337,761
50: 1,337,297
51: 1,337,858
72: 1,337,471
73: 1,337,752
1,337,976
90: 1,337,198
1,337,314
93: 1,337,754
100: 1,337,692
100.1: 1,335,978
104: 1,336,497
146: 1,336,859
149: 1,336,253
157: 1,336,929
164: 1,337,892
167: 1,337,741
171: 1,337,694
180— 1: 1,335,856
1,337,275
6: 1,336,448
9: 1,336,130
1,336,132

180— 9: 1,336,133
1,336,890
1,336,961
1,337,905
11: 1,337,437
15: 1,337,672
16: 1,335,836
1,336,305
1,336,653
17: 1,336,643
20: 1,338,510
21: 1,336,823
22: 1,337,510
26: 1,335,732
41: 1,336,057
1,337,874
45: R.14,850
62: 1,338,042
70: 1,336,008
1,338,381
77: 1,337,007
1,337,008
1,338,534
90: 1,335,720
1,338,581
182— 11: 1,336,280
12: 1,338,079
1,338,432
183— 7: 1,337,488
1,337,489
55: 1,336,600
65: 1,337,564
73: 1,337,020
75: 1,337,984
79: 1,338,143
105: 1,336,870
114: 1,335,758
184— 1: 1,337,408
6: 1,337,931
1,338,310
11: 1,337,013
1,337,581
13: 1,336,076
37: 1,337,494
38: 1,338,554
48: 1,336,135
1,337,432
1,337,717
50: 1,337,179
58: 1,338,385
69: 1,337,687
104: 1,336,368
185— 41: 1,337,113
45: 1,337,385
186— 1: 1,337,050
34: 1,336,551
187— 10: 1,338,127
17: 1,336,949
25: 1,335,719
49: 1,336,748
62: 1,335,849
73: 1,336,664
87: 1,336,170
97: 1,337,943
188— 3: 1,336,235
5: 1,338,036
12: 1,336,909
1,336,956
41: 1,338,225
48: 1,336,231
53: 1,336,435
65: 1,337,786
78: 1,336,906
1,337,815
92: 1,338,302
127: 1,337,948
130: 1,338,556
199: 1,336,522
250: 1,336,882
189— 1: 1,336,324
3: 1,336,945
1,338,482
1,338,483
11: 1,337,487
22.5: 1,338,287
35: 1,336,667
190— 12: 1,337,449
16: 1,336,899
191— 83: 1,338,193
41: 1,336,503
1,336,504
75: 1,336,966
91: 1,336,199
192— 1: 1,336,000
7: 1,338,252
1,338,298
13: 1,335,748
18: 1,336,749
22: 1,337,634
193— 1: 1,336,304
2: 1,337,351
3: 1,337,896
10: 1,337,738
14: 1,338,514
21: 1,338,045

193— 24: 1,337,031
48: 1,336,788
55: 1,335,877
56: 1,337,356
58: 1,336,570
194— 4: 1,335,966
19: 1,338,543
57: 1,336,389
61: 1,337,539
63: 1,336,514
78: 1,336,960
79: 1,336,478
80: 1,336,743
196— 1: 1,335,773
3: 1,335,767
1,335,772
1,337,287
5: 1,336,360
14: 1,336,357
25: 1,335,768
1,335,769
1,335,770
1,335,771
1,336,893
1,337,144
26: 1,336,450
1,337,523
197— 1: 1,336,151
6.4: 1,337,006
1,338,366
22: 1,337,563
47: 1,337,318
72: 1,335,956
85: 1,335,993
87: 1,337,977
100: 1,336,122
127: 1,336,453
1,336,454
1,336,836
138: 1,336,797
171: 1,337,980
189: 1,338,565
199— 45: 1,338,628
46: 1,338,627
56: 1,337,358
200— 3: 1,336,064
8: 1,336,138
9: 1,336,560
1,336,574
1,336,596
14: 1,336,582
17: 1,336,583
18: 1,338,607
23: 1,336,296
24: 1,337,329
1,337,966
1,338,049
26: 1,338,015
30: 1,336,933
1,337,456
1,338,360
31: 1,336,350
33: 1,337,161
38: 1,337,022
43: 1,338,099
48: 1,337,105
50: 1,337,895
52: 1,337,217
54: 1,336,625
57: 1,336,652
61: 1,338,404
70: 1,337,011
80: 1,338,191
84: 1,337,252
90: 1,336,142
1,336,143
91: R.14,834
94: 1,337,072
106: 1,336,069
120: 1,337,806
122: 1,336,418
125: 1,335,810
1,336,238
129: R.14,844
130: 1,338,426
132: 1,337,949
139: 1,337,623
140: 1,336,518
150: 1,337,995
153: 1,335,753
1,335,834
159: 1,335,729
1,336,066
1,336,419
161: 1,337,961
166: 1,336,455
1,337,628
171: 1,337,469
202— 1: 1,337,496
203— 6: 1,336,264
1,337,342
204— 1: 1,337,811
2: 1,338,279
5: 1,336,052
1,337,724

204— 5: 1,338,352
1,338,353
7: 1,337,718
8: 1,335,846
1,338,492
9: 1,337,106
15: R.14,849
1,336,765
1,338,271
29: 1,336,127
1,338,412
1,338,465
31: 1,336,939
32: 1,337,062
53: 1,336,506
58: 1,336,281
64: 1,335,895
1,336,017
1,336,807
1,336,820
1,337,156
1,337,305
1,337,839
1,338,021
1,338,103
1,338,408
1,338,439
1,338,440
1,338,631
205— 16: 1,338,453
206— 12: 1,337,433
16: 1,335,863
1,337,178
22: 1,335,970
44: 1,338,394
46: 1,338,315
56: 1,337,838
1,338,156
207— 1: 1,336,224
208— 15: 1,337,025
33: 1,336,374
1,336,935
57: 1,337,624
68: 1,337,765
76: 1,338,029
97: 1,335,765
162: 1,337,396
165: 1,337,300
1,338,448
1,338,545
210— 4: 1,337,595
5: 1,336,553
1,337,094
1,337,095
1,337,215
6: 1,337,066
7: 1,337,061
9: 1,336,591
10: 1,335,955
13: 1,337,170
1,337,251
14: 1,336,444
16: 1,335,899
1,336,214
1,337,517
1,337,756
18: 1,337,431
19: 1,335,802
1,336,512
30: 1,336,722
35: 1,336,779
198: 1,338,232
211— 8: 1,336,469
1,337,843
13: 1,335,972
1,336,375
1,336,429
1,336,849
16: 1,336,206
1,336,382
1,337,812
1,337,922
20: 1,336,831
21: 1,337,049
24: 1,336,293
1,336,903
1,338,563
27: 1,336,490
1,336,971
29: 1,337,392
31: 1,336,140
1,338,057
32: 1,337,588
33: 1,337,837
37: 1,336,922
41: 1,338,101
43: 1,338,184
212— 59: 1,337,400
94: 1,336,877
98: 1,337,667
213— 42: 1,337,090
1,337,281
1,338,306
50: 1,336,326
54: 1,337,391

213— 56: 1,335,868
64: 1,337,002
1,337,003
67: 1,336,181
1,336,474
1,336,735
1,337,521
1,338,561
214— 17: 1,336,862
18: 1,336,681
23: 1,335,741
31: 1,336,494
44: 1,337,047
46: 1,336,005
65: 1,338,369
78: 1,337,332
130: 1,336,567
140: 1,337,082
215— 1: 1,336,049
1,337,518
1,338,660
2: 1,338,480
3: 1,338,063
14: 1,337,979
27: 1,338,494
53: 1,338,224
65: 1,336,252
1,337,923
80: 1,336,367
1,336,507
1,337,094
88: 1,337,182
216— 44: 1,338,603
217— 1: 1,336,011
12: 1,338,533
17: 1,338,051
23: 1,337,978
29: 1,337,592
60: 1,336,085
1,337,791
61: 1,337,999
81: 1,337,188
89: 1,338,522
90: 1,336,179
113: 1,338,007
218— 8: 1,336,786
1,336,787
11: 1,336,777
12: 1,336,771
1,336,778
15: 1,336,854
1,336,855
1,337,229
219— 2: 1,337,457
1,335,875
1,336,603
8: 1,337,543
1,337,662
15: 1,338,301
19: 1,338,359
20: 1,336,105
1,338,088
22: 1,335,987
34: 1,336,021
1,337,725
1,337,779
37: 1,336,559
38: 1,336,728
1,337,120
1,337,189
45: 1,338,611
48: 1,337,826
50: 1,336,918
1,336,919
76: 1,338,294
220— 1: 1,336,439
7: 1,336,895
1,337,167
1,338,608
9: 1,336,813
1,337,611
24: 1,337,195
25: 1,336,012
32: 1,337,733
1,338,400
38: 1,336,972
40: 1,336,811
43: 1,335,787
44: 1,337,526
61: 1,336,358
1,337,491
69: 1,336,737
71: 1,336,896
221— 47: 1,336,853
51: 1,337,688
74: 1,336,983
78: 1,337,629
103: 1,336,187
111: 1,337,440
113: 1,338,229
114: 1,335,800
127: 1,336,124
130: 1,337,421
223— 14: 1,337,884
17: 1,338,031

223— 19: 1,338,189
38: 1,337,480
52: 1,335,805
224— 29: 1,337,647
1,337,911
1,338,630
48: 1,338,192
50: 1,338,066
56: 1,335,888
225— 25: 1,336,970
28: 1,335,874
40: 1,337,206
226— 20: 1,336,719
55: 1,336,612
77: 1,337,410
84: 1,338,656
93: 1,335,819
1,337,558
101: 1,337,743
108: 1,338,429
109: 1,336,071
120: 1,338,662
228— 2: 1,337,361
38: 1,337,666
68: 1,337,657
1,338,100
229— 6: 1,337,630
10: 1,336,874
16: 1,337,507
17: 1,337,368
27: 1,337,091
44: 1,337,087
68: 1,335,814
1,336,092
78: 1,335,850
1,335,851
1,336,629
81: 1,336,646
230— 1: 1,337,560
1,337,644
2: 1,336,396
11: 1,338,466
13: 1,335,829
24: 1,336,301
27: 1,335,718
1,337,132
1,338,621
30: 1,336,845
232— 4: 1,336,228
8: 1,335,963
40: 1,336,417
1,337,089
41: 1,336,659
42: 1,336,826
233— 45: 1,335,784
234— 1: 1,336,113
5.5: 1,336,611
10: 1,336,090
17: 1,337,172
21: 1,336,810
55: 1,338,413
235— 3: 1,336,693
22: 1,337,441
26: 1,336,628
58: 1,335,794
1,336,192
1,338,282
60: 1,335,815
1,336,840
1,336,904
1,337,844
1,338,012
1,338,014
1,338,467
73: 1,338,274
78: 1,336,990
79: 1,337,599
1,338,481
85: 1,338,588
86: 1,336,686
89: 1,336,900
236— 5: 1,338,024
12: R.14,836
13: 1,336,072
18: R.14,843
26: 1,337,701
1,338,080
1,338,081
34: 1,337,907

236— 78: 1,336,515
237— 12.3: 1,337,946
16: 1,336,816
48: 1,336,901
78: 1,336,225
1,336,860
238— 17: 1,337,544
46: 1,337,851
50: 1,337,862
64: 1,338,590
179: 1,335,751
198: 1,336,915
205: 1,336,099
260: 1,337,365
262: 1,336,483
280: 1,337,621
291: 1,338,016
1,338,431
321: 1,338,149
371: 1,338,444
240— 1: 1,335,832
1,338,524
2: 1,336,500
1,337,222
7: 1,337,230
8.4: 1,338,239
8.5: 1,336,067
1,338,222
23: 1,335,841
25: 1,338,028
26: 1,338,528
39: 1,336,112
41: 1,336,407
1,336,602
1,336,967
1,337,086
44: 1,338,599
45: 1,335,727
48: 1,335,889
48.4: 1,335,918
1,336,837
1,336,951
49: 1,337,880
51: 1,337,832
52: 1,337,867
61: 1,337,849
102: 1,336,761
111: 1,338,194
1,338,635
115: 1,336,835
241— 6: 1,336,053
12: 1,335,927
242— 6: 1,336,328
1,336,329
46.6: 1,336,467
55: 1,336,050
71: 1,335,742
1,335,917
1,336,640
72: 1,337,017
74: 1,337,614
84.5: 1,337,857
91: 1,337,048
1,337,142
95: 1,337,757
120: 1,337,706
126: 1,336,554
244— 2: 1,336,633
1,336,634
1,337,661
3: 1,336,080
1,336,601
1,337,032
10: 1,337,409
12: 1,336,406
1,337,515
14: 1,336,651
1,337,151
1,338,128
15: 1,336,669
1,336,946
18: 1,335,852
19: 1,338,247
20: 1,338,025
21: 1,336,982
1,337,336
1,337,788
22: 1,337,403
25: 1,336,947

244— 25: 1,338,435
29: 1,336,160
1,336,161
1,336,405
1,336,473
1,336,632
1,336,678
1,336,977
1,337,762
30: 1,338,564
31: 1,337,157
1,337,951
245— 5: 1,336,154
246— 33: 1,337,935
49: 1,337,255
71: 1,336,465
1,336,484
83: 1,336,486
103: 1,335,919
128: 1,338,632
151: 1,337,054
187: 1,336,986
248: 1,337,021
252: 1,336,485
295: 1,337,283
298: 1,336,913
341: 1,336,114
375: 1,337,527
380: 1,338,253
405: 1,336,195
487: 1,336,792
1,337,240
247— 13: 1,337,163
248— 3: 1,336,593
12: 1,336,785
20: 1,336,809
1,337,234
27: 1,335,902
29: 1,337,541
30: 1,337,362
1,337,645
1,338,555
33: 1,336,558
38: 1,335,724
41: 1,335,726
1,336,973
1,338,437
1,338,486
58: 1,335,796
249— 1: 1,336,705
1,337,842
250— 1,337,737
20: 1,336,378
1,336,398
34: 1,337,904
35: 1,337,349
36: 1,336,833
1,337,933
41: 1,337,245
1,337,246
1,337,505
1,337,549
251— 5: 1,336,891
1,337,247
7: 1,336,650
24: 1,337,200
47: 1,336,026
54: 1,336,316
101: 1,338,190
106: 1,336,236
125: 1,337,326
134: 1,338,186
144: 1,337,462
252— 1,337,542
1,337,546
1,338,343
253— 1: 1,336,827
2: 1,337,890
1,338,137
14: 1,338,326
39: 1,337,098
70: 1,338,409
136: 1,337,478
1,338,399
200: 1,337,659
254— 3: 1,337,804
5: 1,338,255
10: R.14,839
41: 1,336,223

254— 55: 1,338,096
77: 1,336,027
78: 1,337,719
85: 1,337,065
86: 1,336,620
1,338,589
88: 1,335,969
91: 1,335,858
1,337,519
97: 1,335,782
123: 1,335,885
128: 1,335,931
131: 1,337,125
192: 1,337,341
255— 24: 1,338,460
42: 1,338,019
61: 1,335,880
1,336,537
71: 1,337,913
1,338,601
75: 1,336,884
1,338,345
256— 3: 1,336,205
13: 1,336,680
18: 1,338,006
52: 1,338,423
257— 22: 1,337,696
89: 1,336,079
125: 1,335,812
129: 1,337,415
130: 1,335,890
1,335,997
1,336,136
1,336,999
131: 1,337,337
132: 1,336,978
1,338,585
1,338,614
155: 1,335,799
178: 1,336,742
207: 1,337,766
224: 1,337,473
236: 1,338,479
241: 1,336,152
243: 1,336,655
258— 13: 1,336,851
26: 1,337,956
1,338,228
259— 72: 1,337,716
85: 1,336,878
92: 1,337,864
99: 1,335,737
107: 1,337,777
261— 121: 1,336,070
131: 1,337,860
134: 1,336,781
1,336,830
141: 1,337,453
144: 1,337,373
262— 7: 1,335,723
25: 1,336,440
28: 1,336,927
30: 1,336,039
263— 6: 1,338,003
9: 1,338,472
10: 1,336,196
15: 1,336,260
22: 1,336,814
33: 1,336,137
34: 1,337,244
36: 1,336,499
264— 3: 1,337,865
265— 9: 1,338,647
28: 1,336,351
52: 1,338,593
61: 1,338,538
63: 1,338,220
266— 6: 1,335,912
1,337,465
20: 1,338,292
22: 1,338,206
27: 1,336,308
30: 1,337,468
267— 17: 1,338,270
1,338,557
19: 1,336,167
27: 1,336,481
1,337,345
28: 1,336,534
1,337,291
1,338,371
29: 1,336,446
47: 1,336,314
49: 1,338,537
54: 1,336,829
64: 1,336,184
65: 1,337,579
67: 1,336,353
268— 2: 1,338,372
5: 1,338,560
9: 1,335,750
1,338,379
17: 1,337,461
18: 1,337,776
270— 31: 1,338,570
37: 1,336,445
57: 1,337,900
271— 79: 1,337,223
85: 1,336,598
1,337,530
273— 1,337,530
274— 2: 1,336,492
1,336,842
1,338,620
9: 1,338,365
27: 1,336,036
35: 1,338,395
1,338,396
37: 1,338,525
275— 2: 1,338,161
5: 1,338,544
277— 18: 1,337,952
20: 1,336,084
37: 1,338,489
279— 1: 1,337,313
280— 13: 1,337,153
14: 1,337,833
31: 1,336,725
33.2: 1,336,655
33.4: 1,338,546
44: 1,336,037
48: 1,336,033
49: 1,337,438
51: 1,337,861
86: 1,338,657
57.5: 1,336,100
97: 1,337,830
106.5: 1,337,501
117: 1,336,645
144: 1,337,416
176: 1,336,948
281— 11: 1,338,330
1,338,140
1,338,167
1,337,612
295— 8.5: 1,338,208
135: 1,336,783
296— 23: 1,336,627
48: 1,338,445
92: 1,338,487
94: 1,337,296
1,337,472
96: 1,338,004
99: 1,336,953
102: 1,336,331
109: 1,338,446
110: 1,337,360
1,338,026
116: 1,336,022
145: 1,336,116
1,337,302
297— 14: 1,337,367
1,337,529
298— 19: 1,336,163
299— 9: 1,336,401
12: 1,338,474
60: 1,337,744
73: 1,338,242
98: 1,337,467
121: 1,337,589
144: 1,337,516
302— 32: R.14,841

287— 34: 1,336,707
43: 1,336,185
87: 1,337,235
111: 1,337,642
288— 1: 1,338,617
290— 4: 1,337,613
35: R.14,842
1,337,363
1,337,364
1,337,887
38: 1,337,649
41: 1,336,619
48: 1,337,973
291— 28: 1,338,640
292— 17: 1,336,897
44: 1,337,638
63: 1,336,430
78: 1,335,958
127: 1,338,153
128: 1,336,496
130: 1,338,052
137: 1,338,339
171: 1,337,513
175: 1,336,242
183: 1,338,219
210: 1,336,274
228: 1,337,447
238: 1,336,696
1,338,209
241: 1,338,250
1,338,416
267: 1,336,535
272: 1,338,488
275: 1,338,571
300: 1,337,495
317: 1,338,618
322: 1,336,888
1,337,985
343: 1,336,045
1,338,205
293— 42: 1,336,277
55: 1,337,522
1,338,048
1,338,433
1,338,597
294— 19: 1,337,398
28: 1,336,255
30: 1,337,450
31: 1,338,065
36: 1,338,540
43: 1,336,461
1,338,043
49: 1,336,203
51: 1,337,939
60: 1,335,848
87: 1,338,652
90: 1,336,684
96: 1,337,902
102: 1,337,476
106: 1,338,023
110: 1,336,815
295— 8.5: 1,338,208
44: 1,336,128
1,336,783
296— 23: 1,336,627
48: 1,338,445
92: 1,338,487
94: 1,337,296
1,337,472
96: 1,338,004
99: 1,336,953
102: 1,336,331
109: 1,338,446
110: 1,337,360
1,338,026
116: 1,336,022
145: 1,336,116
1,337,302
297— 14: 1,337,367
1,337,529
298— 19: 1,336,163
299— 9: 1,336,401
12: 1,338,474
60: 1,337,744
73: 1,338,242
98: 1,337,467
121: 1,337,589
144: 1,337,516
302— 32: R.14,841

OFFICIAL GAZETTE

BANGOR PUBLIC
DEC 22 1920
LIBRARY

OF THE

UNITED STATES PATENT OFFICE.

VOLUME CCLXXIV.

MAY,

1920.

WASHINGTON
GOVERNMENT PRINTING OFFICE
1920

ERRATA.

1,338,880, page 42, first claim, line 3, for the word "near" read *ear*.

1,339,759, page 283, first claim, line 10, after the word "scale" insert the word *beam*.

130,406, page 598, (Published Trade-Marks,) particular description of goods, line 3, for the compound word "House-Keeping" read *House-Heating*.

130,982, (Registered Trade-Marks,) page 192, name of registrant, for Wallis Tractor Company, Racine, Wis., read *J. I. Case Plow Works Company, Racine, Wis., a Corporation of Delaware*.

SMITHSONIAN
PATENT
LIBRARY
MAY 31 1918

CONTENTS.

	Page.
PATENTS AND DESIGNS GRANTED, May 4, 11, 18, 25	3, 211, 413, 621
TRADE-MARKS PUBLISHED AND REGISTERED, May 4, 11, 18, 25	153, 363, 567, 791
LABELS AND PRINTS REGISTERED, May 4, 11, 18, 25	403, 612, 837
DECISIONS OF THE COMMISSIONER OF PATENTS, May 4, 11, 18, 25	203, 405, 613, 839
INDEX TO THE DECISIONS OF THE COMMISSIONER OF PATENTS	843
ALPHABETICAL LIST OF PATENTEES AND INVENTIONS	i

ANNOUNCEMENTS.

	Page.
ADVERSE DECISIONS IN INTERFERENCE—	
Becker, 1,243,669	410
Brown, 1,194,353	411
Bundy, 1,117,200	410
Doyle and Hedley, 1,216,294	411
Ferris, 1,243,499	411
Graber, 1,096,238	410
Grover and Barber, 1,192,301	411
Kroll, 1,306,151	208
Lebow, 1,312,333	410
Scabzi, 1,306,562	411
Sharpneck, 1,315,342	411
Shiek, 1,143,447	410, 411
Smith, 1,319,975	208
AMENDMENTS TO AMENDMENTS—	
Rule 74	619
APPLICATIONS—	
Condition of pending	2, 210, 412, 620
Execution by agent discontinued	614
ASSISTANT EXAMINERS—	
Vacancies existing	1, 209, 411, 619
ATTORNEYS—	
Order disbarring Solomon S. Sugar revoked	411
CLASSIFICATION OF INVENTIONS—	
Order 2567	617
Order 2568	618
CORRESPONDENCE BY MAIL	206
DISCLAIMERS—	
Jouffret, Henri Victor, and Jules Maurice Renée	208
Watson, Henry W., and William W. Watson	411
INTERFERENCE NOTICES—	
Earle, Walter H.	1, 209
Kespohl & Co., H. A.	617, 619
Willits, Robert W.	617, 619
PATENT LAWS—	
Amendment to, payment of final fees	1, 209
PATENTS—	
List of adjudicated	208, 409, 617, 84 2

Patents Nos. 1,338,663 to 1,339,380.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 274—No. 1. TUESDAY, MAY 4, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page
ISSUE OF MAY 4, 1920	1
INTERFERENCE NOTICE	1
NOTICE	1
ASSISTANT EXAMINERS WANTED	1
APPLICATIONS UNDER EXAMINATION	2
PATENTS GRANTED	3
REISSUES	135
DESIGNS	136
TRADE-MARKS—REGISTRATION APPLIED FOR	153
TRADE-MARK REGISTRATIONS GRANTED	181
DECISIONS OF THE U. S. COURTS—	
In re Dement	203
Hercules Powder Company *v.* Newton, Commissioner of Patents	204
ADJUDICATED PATENTS	208
DISCLAIMER	208
ADVERSE DECISIONS IN INTERFERENCE	208

Issue of May 4, 1920.

Patents	718—No.	1,338,663 to No.	1,339,380, inclusive.
Designs	95—No.	55,013 to No.	55,107, inclusive.
Trade-Marks	681—No.	130,596 to No.	131,276, inclusive.
Reissues	5—No.	14,851 to No.	14,855, inclusive.
Total	1499		

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 17, 1920.

Walter H. Earle, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Richard Frank, of 159 Chambers street, New York, N. Y., for registration of a trade-mark and trade-mark registered July 1, 1902, No. 38,536, to Walter H. Earle, of 905 Temple street, Los Angeles, Calif., and a notice of such declaration sent by registered mail to said Walter H. Earle at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Walter H. Earle, his assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
Assistant Commissioner.

NOTICE.

AMENDMENT TO PATENT LAWS—PAYMENT OF FEES.

**Department of the Interior,
United States Patent Office,
Washington, D. C., March 11, 1920.**

Attention is directed to the following excerpt from the deficiency appropriation act, approved March 6, 1920.

**R. F. WHITEHEAD,
Acting Commissioner.**

Hereafter all patent fees shall be paid to the Commissioner of Patents, who shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury shall direct, and said Commissioner is authorized to pay back any sum or sums of money paid to him by any person by mistake or in excess of the fee required by law.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for May 5-7 and June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

2174

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business April 26, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Jan. 14	Dec. 6	359
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 12	Nov. 10	956
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	450
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Sept. 22	Feb. 17	1,045
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 15	Jan. 28	307
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 15	Feb. 18	463
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 5	Feb. 4	784
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 28	Mar. 29	323
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Dec. 4	Jan. 2	423
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Oct. 7	Dec. 22	996
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Jan. 9	Dec. 29	661
222	12. Machine Elements	Aug. 11	Feb. 18	1,173
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 3	Mar. 8	1,111
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 10	Jan. 20	512
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 6	Feb. 20	1,000
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 27	Nov. 1	847
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 12	Mar. 12	249
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 20	Dec. 1	862
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Nov. 19	590
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 19	Jan. 15	665
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 7	Mar. 5	380
249	22. Aeronautics; Firearms; Ordnance	Jan. 24	Feb. 16	242
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Nov. 8	Feb. 7	575
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 18	Jan. 24	518
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 5	Mar. 6	177
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Aug. 23	Sept. 12	723
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 2	Feb. 26	518
225	28. Internal-Combustion Engines	Jan. 8	Jan. 27	847
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 10	Mar. 13	640
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 17	997
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 20	Oct. 29	954
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 8	Jan. 12	1,129
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 1	Jan. 29	487
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Mar. 22	Mar. 20	126
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 17	Mar. 27	410
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 2	Jan. 16	1,084
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Nov. 17	Nov. 28	1,270
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Feb. 13	567
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Aug. 18	Oct. 8	987
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 28	Feb. 11	737
125	41. Resilient Tires and Wheels	Oct. 6	Feb. 18	810
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Oct. 27	Nov. 17	925
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 7	Feb. 12	733
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Dec. 6	Feb. 27	277
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Oct. 2	Jan. 26	738
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway- Brakes; Wooden Buildings.	Oct. 6	Nov. 22	750

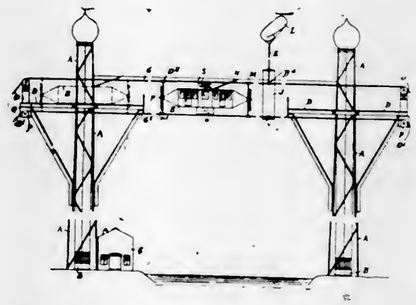
Oldest new case, Aug. 8; oldest amended, Oct. 8.
Total number of applications awaiting action..... 31,177

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 30	Feb. 1	2,747
	Designs	Oct. 6	Feb. 6	1,116
	Labels and Prints	Jan. 2	Feb. 2	763

PATENTS

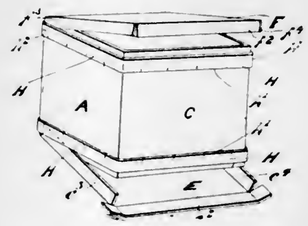
GRANTED MAY 4, 1920.

1,338,663. AERIAL RAILWAY. MARTIN ABELLA ANER, Liverpool, England. Filed Apr. 23, 1919. Serial No. 292,198. 7 Claims. (Cl. 104—23.)



1. An electric railway for crossing arms of the sea or other difficult country, formed of two main cables for suspending the carriages one above and the other below, high posts carrying the cables, terminal anchorage abutments similar to those of other suspension bridges, and down which the return cable runs to earth, and trolley trains running on the main cable or cables, and trolleys for connecting the cars to the electric cable.

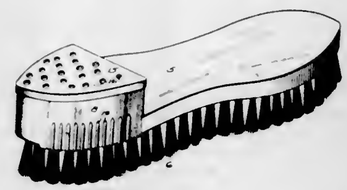
1,338,664. CARDBOARD AND LIKE BOXES WHICH ARE MADE COLLAPSIBLE. ALFRED AVISS, Rugby, England. Filed Nov. 21, 1918. Serial No. 263,538. 1 Claim. (Cl. 229—41.)



A collapsible box comprising side members flexibly connected together and end members flexibly connected at one side to one of the side members, and provided at the opposite side and at the ends with flanges; the sides of the box other than that to which the end members are attached being porvided with strips, said strips being fastened on the outside, near the edges, to said sides and being otherwise spaced from said sides to form pockets between said sides and strips for the reception of the said flanges of the end members when the box is set up and closed.

1,338,665. SOAP-HOLDING ATTACHMENT FOR SCRUB-BRUSHES. HARRY E. ADAMS, Belle Vernon, Pa. Filed Oct. 3, 1919. Serial No. 328,223. 4 Claims. (Cl. 15—13.)

1. A device of the character described consisting of a receptacle comprising side walls having inturned flanges at their lower edges, means carried by the receptacle to engage the upper face of the back of a scrub brush, the side walls extending downwardly beyond the last named means leaving the structure open at the back to adapt it to be slipped upon the nose of a scrub brush, the back of the brush being received between said means and said



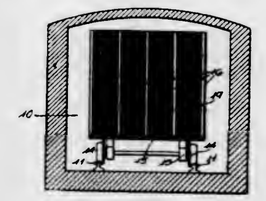
flanges, said receptacle comprising a removable cover, and having means for permitting the entry of water to the receptacle when the structure is dipped into a pail of water, and means being provided for permitting the flow of water from the receptacle past the edges of the scrub brush onto the bristles of the same.

1,338,666. COMPASS. SEABLE E. ANDREWS, Pittsburgh, Pa. Filed May 6, 1919. Serial No. 295,051. 4 Claims. (Cl. 33—223.)



1. An overhead compass for aeroplanes or the like, comprising a casing having a transparent bottom, and a magnetic element bearing indicia pivoted within the casing, indicia upon said magnetic element being visible through the transparent bottom of the casing.

1,338,667. HOLDER FOR WOOD BEING DISTILLED. ARTHUR C. BADGER, Newton, Mass., assignor to E. B. Badger & Sons Company, Boston, Mass., a Corporation of Massachusetts. Filed July 26, 1916. Serial No. 111,534. 4 Claims. (Cl. 203—6.)



3. A holder for wood to be distilled comprising a self-contained structural unit adapted to be placed in and removed from a distilling retort, having separate compartments for the wood to be distilled and spaces between

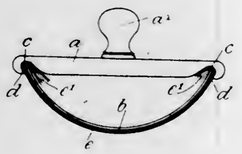
said compartments open above and below and having access to said compartments, whereby to permit free escape at the same time from different parts of the charge of wood carried by said holder, of vapors produced by distillation.

1,338,668. STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. MAURICE M. BALSAM, New York, N. Y. Filed Feb. 18, 1919. Serial No. 277,831. 3 Claims. (Cl. 123—185.)



1. A starting-crank release for internal combustion engines, consisting in the combination with the motor-clutch of such engine, of a starting-shaft mounted to slide axially and engage such clutch, a relatively fixed bearing for said starting-shaft serving as a guide for such axial movement, a collar fixed on said starting-shaft, clutch sectors on said collar, a sleeve slidable on said starting-shaft and having clutch sectors adapted to engage said collar-sectors, a ratchet-wheel and hub therefor inclosing said collar, said hub having inclined notches in its rim, pins on said sleeve adapted to engage such notches, a casing inclosing said collar and ratchet-wheel and adapted to hold the latter against axial movement, pawls in said casing arranged to co-act with said ratchet-wheel, a crank on said sleeve, and means for holding said casing against rotation and permitting axial movement of the starting-shaft and casing.

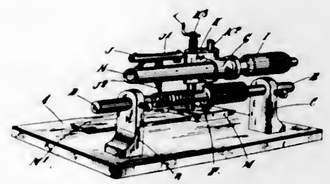
1,338,669. BLOTTING-PAD. ARTHUR BAUMGARTNER, Soleure, Switzerland, assignor to the Firm: Ira Co. Fabrique Suisse d'Articles en bois, Schweizerische Holzwarenfabrik, Swiss Wood Works, Soleure, Switzerland. Filed Jan. 21, 1918. Serial No. 212,929. 2 Claims. (Cl. 120—24.)



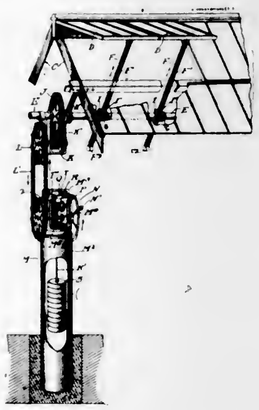
1. A blotting pad comprising a rigid member having in its inner surface adjacent the ends thereof transverse grooves, said grooves providing at the extremities of the rigid member beaks with the edge of each beak facing the inner surface of the corresponding groove, and a wooden elastic member upon which blotting paper is laid and folded over the ends thereof so that these ends of the wooden elastic member when inserted in said grooves maintain the blotting paper in position against the edges of said beaks with the ends of the blotting paper lying in said grooves.

1,338,670. MEANS FOR MEASURING THE PITCH OF SCREWS AND THE LIKE. WILFORD BOLTON, Accrington, and ERNEST THOMAS BISHOP, Reading, England. Filed July 24, 1918. Serial No. 246,582. 9 Claims. (Cl. 33—199.)

1. A device for measuring the pitch of screw threads including a support, a member loosely mounted thereon and supported for tilting movement and having a projecting part adapted to be engaged in the thread to be measured, said member being adapted to be adjusted to true level, then shifted into the next thread and adjusted to a true level, and a micrometer for adjusting the member, the difference in the reading of the two dead level positions giving the pitch of the thread.



1,338,671. SASH-OPERATING MECHANISM. WILLIAM ADDISON BURNHAM, Irvington, N. Y. Filed Aug. 30, 1916. Serial No. 117,608. 4 Claims. (Cl. 268—18.)

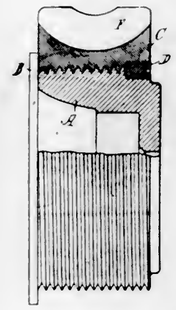


1. In a sash operating mechanism, the combination of plurality of ventilating sashes, an operating shaft common to the series of sashes, a power device, including a casing member adapted to be rigidly supported in upright position, winding means having operative connection therewith, a counter-weight within said casing flexibly connected to said winding means, power transmitting mechanism interposed between said power device and winding means and said shaft, and means interposed between said shaft and said sashes adapted to be actuated by said shaft to open said sashes and adapted to actuate said shaft, power transmitting mechanism and winding means through the closing of said sashes by gravity.

1,338,672. COMPOSITE GEAR. CHARLES H. CALKINS, Ludlow, Mass., assignor to Baush Machine Tool Company, a Corporation of Massachusetts. Original application filed Mar. 22, 1916, Serial No. 85,809. Divided and this application filed Aug. 17, 1916. Serial No. 115,527. 5 Claims. (Cl. 74—41.)

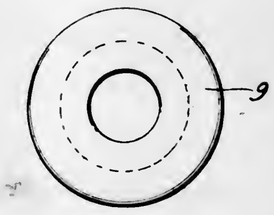
1. A worm gear having a center of comparatively strong metal and a toothed ring of comparatively weak antifriction material extending continuously around the center, said ring being formed separately and shrunk on said center to form a tight engagement therewith, and a

threaded pin extending in an axial direction into and in threaded engagement with both said parts to resist



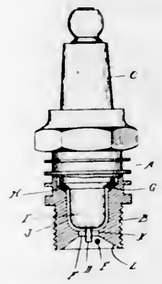
relative movement thereof in both a circumferential and axial direction.

1,338,673. AUTOMOBILE-SPRING. WILLIAM F. CAILEY, Wade, Miss. Filed July 11, 1919. Serial No. 310,184. 2 Claims. (Cl. 267—28.)



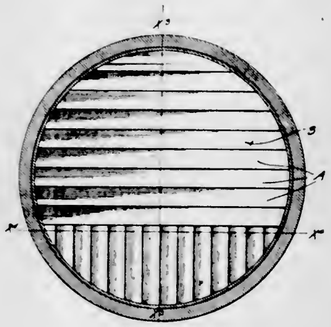
1. In combination with the front axle and leaf springs of an automobile, a central vertical coil spring equipped with a yoke embracing the central portion of the axle and having its opposite end secured to a fastening bolt, a plate retained in position by the said fastening bolt against the said automobile spring, and equipped with lugs, angularly extending springs secured to the lugs, each angularly extending spring being provided with a yoke secured to the said axle at a point midway between the center thereof and the point at which one end of the said leaf spring is secured to the axle.

1,338,674. SPARK-PLUG. ALBERT J. CHAMPION, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Nov. 30, 1917. Serial No. 204,568. 1 Claim. (Cl. 123—169.)



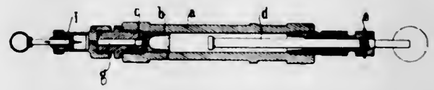
In a spark plug, the combination with an insulator and an electrode extending longitudinally therethrough, of a casing in which said insulator is seated, having a threaded nipple portion inside of the seat corresponding in contour with the portion of said insulator inside of the seat and uniformly spaced therefrom a restricted distance to prevent ignition of any gases therebetween, said nipple portion extending partly around the inner end of said insulator and having a flaring mouth with an opening surrounding said electrode, and a second electrode extending transversely of the first-mentioned electrode and adjacent thereto, said second electrode having its opposite ends engaging the wall of the flaring mouth.

1,338,675. HEADLIGHT FOR VEHICLES. WILLIAM CHURCHILL, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Continuation in part of application Serial No. 142,711, filed Jan. 16, 1917. This application filed July 14, 1917. Serial No. 180,559. 6 Claims. (Cl. 240—48.4.)



1. In a light projector for a vehicle, the combination with a light source, of a reflector and a cover glass, the cover glass having refracting faces thereon so disposed that the beam projected from the reflector is asymmetrical above the axis thereof.

1,338,676. STORAGE OF ENERGY DUE TO AN EXPLOSION. GEORGE CONSTANTINESCO, Alperton, and JOHN RICKARDS MIDDLETON, London, England. Filed Dec. 2, 1918. Serial No. 265,061. 5 Claims. (Cl. 89—1.)



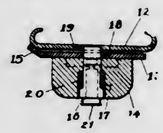
1. A system for utilizing and storing the energy of an explosive which consists in firing the explosive behind a piston, causing the pressure of the gases produced by the explosion behind the piston to compress a liquid whose pressure and expansion are utilized to obtain motion, utilizing the pressure and expansion of the liquid to move a piston, and causing the second piston to move a member

---

1,338,677. LOCK FOR TIRE-CASINGS. THOMAS E. COOK and ALEXANDER T. FREIJE, Rincon, N. Mex. Filed Feb. 27, 1919. Serial No. 279,618. 1 Claim. (Cl. 152—21.)

In combination with a wheel including a felly, a fixed rim and a demountable rim, the felly being provided with a recess and a bore communicating therewith, and the fixed and demountable rims being provided with holes registering with said bore, a locking bolt fitting within said bore and said holes and having its inner end enlarged

to form a head fitting within said recess, a coil spring disposed within said recess and normally urging said bolt inwardly toward the center of the wheel, and means for holding said bolt in its outward position engaging within

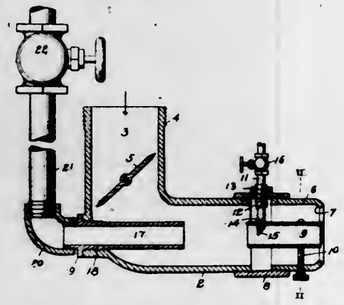


the hole in the demountable rim, said means comprising a lock disposed within the recess in the felly and having a key operated swingable bolt, said first named bolt being provided in one side with a notch for engagement by said lock bolt.

1,338,678. METHOD OF STABILIZING POLYSULFIDS AND THE PRODUCTS OF SUCH METHOD. DONALD DAVIDSON, Chicago, Ill., assignor to Bradley & Vrooman Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1919. Serial No. 328,948. 6 Claims. (Cl. 23—11.)

5. A compound including a solid polysulfid in particles and proteid matter incasing such particles.

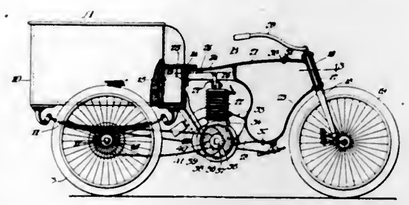
1,338,679. FUEL-BURNER. NEVILLE C. DAVISON, Edgeworth, Pa. Filed Feb. 15, 1919. Serial No. 277,198. 3 Claims. (Cl. 158—74.)



1. In a fuel burner, the combination of a main cylindrical casing having a rear connection for air under pressure and a forward delivery terminal, an inner centrally arranged oil atomizing and distributing tube extending from the delivery terminal of the casing backwardly, thereinto with a surrounding annular space and open at each end, and a fuel supply pipe extending inwardly through the casing and said tube at its rear end provided with a beveled delivery terminal facing toward the delivery terminal of the casing whereby to deliver liquid fuel to the rear middle portion of the tube in the path of the middle portion of the main compressed air supply whereby the liquid fuel is disintegrated and spread around and upon the interior forward portion of the tube and is forced in atomized condition into mixing contact with the outer volume of compressed air around and beyond the tube and beyond the terminal of the casing.

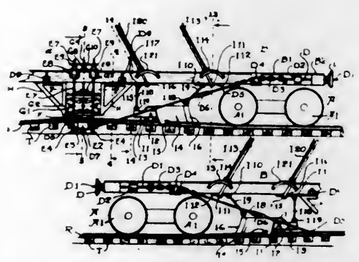
1,338,680. MOTOR-DRIVEN VEHICLE. JAMES DEAN, New York, N. Y. Filed Apr. 1, 1919. Serial No. 286,677. 5 Claims. (Cl. 180—27.)

1. In a motor driven vehicle, a rearward wheeled structure, a motor, driving connections between the said motor and said structure, and a forward wheeled structure supporting said motor and including a frame comprising a relatively-narrow vertically-elongated hollow body having a horizontally extended upper portion and a reduced lower portion, and a rigid member forming an integral part of the upper portion of said body and connecting the same



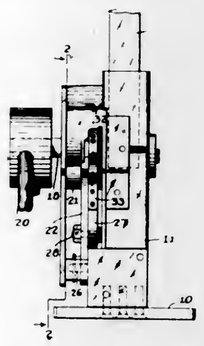
with the rearward structure, said body constituting a capacious fuel tank and said rigid member providing a support from which the motor is suspended in rear of the tank.

1,338,681. MACHINE FOR BALLASTING RAILWAY-TRACKS. DANIEL JEFFERSON DOBSON, Greenlee Station, N. C. Filed Feb. 10, 1920. Serial No. 357,651. 20 Claims. (Cl. 104—7.)



1. In an apparatus of the nature described, the combination of a car body, wheels supporting said body, a tie-support adapted to be placed crosswise of a track and beneath the ties, stay rods tiltably supporting said tie-support, and means for holding the tie-support at a chosen inclination, substantially as described.

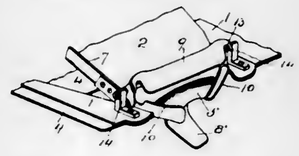
1,338,682. JACK. JOHN H. DORMAN, New York, N. Y. Filed May 27, 1919. Serial No. 300,017. 13 Claims. (Cl. 254—95.)



1. In a lifting jack, a standard having a rack bar guided therein for vertical movement, a ratchet shaft mounted in said standard for rotary movement, a relatively small pinion fixed to said shaft and engaging the

teeth of the rack bar to move the same, a relatively large one-way ratchet fixed to said shaft, a power shaft in said standard mounted for oscillatory movement about a fixed axis and offset laterally from said ratchet shaft, an actuating lever engaging said power shaft to oscillate the same, a crank arm fixed to said power shaft, a lifting link hanging from said crank arm, a feed pawl pivoted to said lifting link and engaging said ratchet to feed the same in one direction, a holding pawl engaging the ratchet normally to prevent movement thereof in the opposite direction and resilient means acting on both pawls to maintain the same in operative engagement with the ratchet.

1,338,683. CHANGE-COUNTER. WILLIAM N. DOVENER, Washington, D. C. Filed Aug. 9, 1918. Serial No. 249,132. 9 Claims. (Cl. 133—13.)

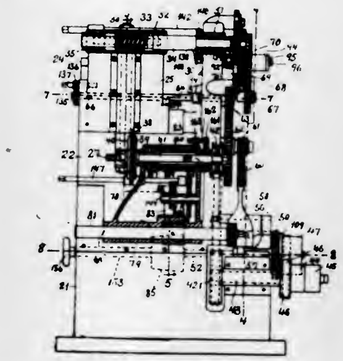


1. In a device of the class described, the combination of a counter, a change tray tiltably mounted thereon, the tray being provided with a spout, and movable means carried by the counter normally acting to prevent discharge of coin at the spout and constructed and arranged to free the spout for discharge of coins when the tray is tilted.

1,338,684. PROCESS OF TREATING FRUIT-JUICES. FREDERICK L. DUNLAP, Chicago, Ill., and RUDOLPH A. KUEVER, Iowa City, Iowa. Filed Sept. 24, 1918. Serial No. 255,507. 2 Claims. (Cl. 99—11.)

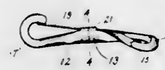
2. In the treatment of citrus fruit juices the step which consists in adding to the citrus juice a proteolytic enzym active in slightly acid media, heating the juice to a temperature and for a sufficient length of time to cause the enzym to digest the proteids in the juice.

1,338,685. GEAR-GENERATING MACHINE. EDWIN R. FELLOWS, Springfield, Vt. Filed Dec. 24, 1917. Serial No. 208,547. 54 Claims. (Cl. 51—4.)



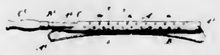
1. A gear generating machine comprising a generating tool, a carriage for the work piece movable past said generating tool, a rotary holder for said work piece, an index wheel connected to said holder, a worm engaged with the teeth of said index wheel and withheld from movement in unison with said carriage, and means for rotating said worm during the travel of said carriage.

1,338,686. SNAP-HOOK FOR TIRE-CHAINS. JOHN P. FENNESSY, Providence, R. I. Filed Nov. 4, 1919. Serial No. 335,574. 1 Claim. (Cl. 24—236.)



A snap hook for tire chains comprising a body having hooks at its ends disposed at an angle to each other, said body also having a groove, and a closure spring secured within said groove and having one end twisted at an angle to engage the corresponding offset end of said hook to bring the free extremities thereof in engagement with the respective hook ends.

1,338,687. HAIR-CURLER. CHARLES L. FITCH, New York, N. Y. Filed Oct. 15, 1919. Serial No. 330,755. 2 Claims. (Cl. 132—18.)



1. In a device of the character set forth, a shell having perforations therein and formed at one end with an offset platform, a yielding clamp hinged to said shell at one end and separably engaged therewith at the other end, and a rod independent of said shell and adapted to be removably received in said shell, said clamp coöperating with said rod and platform.

1,338,688. CAN OR CONTAINER. JERVIS R. HARBECK, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 9, 1914. Serial No. 823,299. 1 Claim. (Cl. 220—46.)

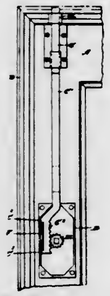


A container provided with a seal at each end, the first being a preliminary seal, and comprising an outwardly extending neck terminating in an inwardly extending shoulder, a seal disk compressed within said neck and on the inner side of said shoulder and composed of two layers of a flexible frangible material and a fused cement between said layers, the fused cement extending around within said neck as a result of such compression and adhering to the seal disk and also adhering to the neck around the margin of the disk, and a removable cover fitting tightly around the outwardly extending neck; and the seal at the other end of the container consisting of a loose sheet metal cover adapted to be united to the otherwise open end of the body.

1,338,689. LATCH. CURTIS A. MASSOLL, Detroit, Mich., assignor of one-half to John A. Whittaker, Detroit, Mich. Filed May 8, 1918. Serial No. 333,246. 1 Claim. (Cl. 292—39.)

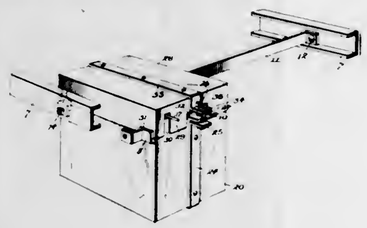
In a device of the class described, keepers located at the top and bottom of a door casing and provided at the outer sides with bolt engaging means, vertically movable bolts mounted on the door and provided at their outer

ends with tapering heads presenting inclined outer faces to the bolt engaging means of the keepers for forcing the door inwardly to its closed position, said heads being of greater width than the body portion of the bolts and forming projecting lugs and provided at the inner ends of the inclined faces with vertical faces extending from the said tapered portions and slidable over the bolt en-



gaging means as the door has been forced inwardly by the said inclined faces of the bolts, the bolt engaging means of the keepers being arranged to permit an extended movement of the bolts whereby any sagging of the door will be prevented from diminishing the effectiveness of the tapered portions of the heads of the bolts in forcing the door tightly to its closed position.

1,338,690. BATTERY-BOX. THOMAS L. MOORMAN, Farmville, Va. Filed Feb. 27, 1920. Serial No. 361,900. 4 Claims. (Cl. 204—29.)

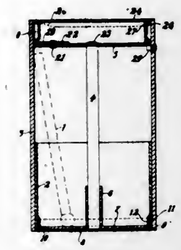


2. A protector for an exposed storage battery having hold-down brackets extending above its top, and mounted in an open frame provided with hold-down lugs, said protector comprising in combination a cover adapted to rest upon said hold-down brackets, and having a depending notched flange adapted to extend below and to embrace the top edge of the battery; a liner of insulating material mounted on the lower face of said cover above the leads of the battery; and lugs on said cover capable of being connected by releasable stressed connectors to the hold-down lugs on said frame.

1,338,691. GELATINIZED PROPELLENT EXPLOSIVE AND PROCESS OF PREPARING SAME. FREDERIC LEWIS NATHAN and WILLIAM RINTOUL, Stevenston, and FRANK BAKER, deceased, Stevenston, Scotland, by Henry Baker, Eton, Windsor, England, administrator of said Frank Baker, assignors to Nobel's Explosives Company, Limited, Glasgow, Scotland. Filed Feb. 26, 1914, Serial No. 821,338. Renewed Oct. 21, 1918. Serial No. 259,071. 26 Claims. (Cl. 52—3.)

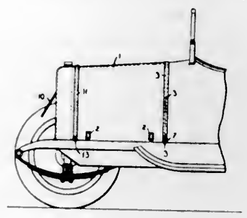
12. A propellent explosive comprising a gelatinous admixture of nitrocellulose, nitro-glycerin, a non-volatile gelatinizing agent sufficiently soluble in the nitro-glycerin to remain dissolved in the mixture, and a stabilizing agent capable of taking up any products of decomposition, and which will not accelerate decomposition in the presence of the other constituents.

1,338,692. MATCH-IGNITING DEVICE. JACOB E. NEAHR, New York, N. Y. Filed Aug. 14, 1917. Serial No. 186,125. 3 Claims. (Cl. 206—33.)



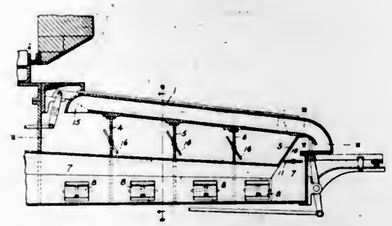
1. The combination with a flattened tubular casing of oblong cross-section and a flattened match box fitting therein, of a flattened drum also fitting in the casing and surmounting the match box, a relatively long pack of ignition strip occupying said drum and consisting of zig-zag folds, and opening in said drum through which the end of said strip is drawn out and wound around the drum, and a clip to hold the end of the strip to the drum.

1,338,693. RADIATOR AND HOOD COVER FOR AUTOMOBILES. WALTER E. NORCROSS, Dorchester, Mass., assignor to L. C. Chase & Company, Boston, Mass., a Copartnership. Filed Apr. 28, 1919. Serial No. 293,166. 4 Claims. (Cl. 150—52.)



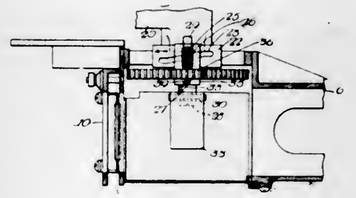
1. A radiator cover for automobiles comprising a fabric case formed to fit over the front, top, and sides of the radiator and provided with a pocket along its rear edge, a longitudinally elastic flexible member in said pocket, and fastening devices at the ends of said member engageable with the automobile body when the cover is in place, and acting to hold the member in tension and thus to clamp the rear edge of the case snugly against the body.

1,338,694. FURNACE. THOMAS A. PEEBLES, Pittsburgh, Pa., assignor to Darwin S. Wolcott, trustee, Sewickley, Pa. Filed Feb. 20, 1918. Serial No. 218,246. 7 Claims. (Cl. 110—74.)



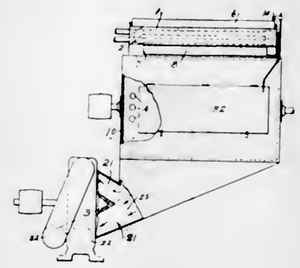
1. In a furnace the combination of spaced fuel supporting members, a plurality of chambers arranged transverse of and below the fuel supports and adapted to supply air to different portions of the bed of fuel on said supporting members, means for feeding heated air to the chamber underlying the portions of the fuel supporting members on which initial combustion occurs and means for supplying air to the other chambers.

1,338,695. MOTION-PICTURE MACHINE. CHRISTEN J. PETERSON, Chicago, Ill. Filed Aug. 13, 1918. Serial No. 249,636. 7 Claims. (Cl. 88—17.)



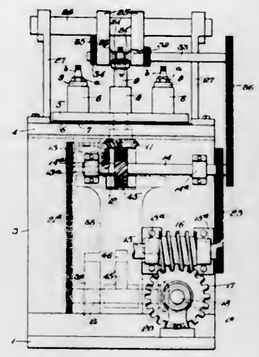
1. In a motion picture machine, the combination of film actuating mechanism, a shutter member, means for operating the shutter, means for driving said actuating mechanism and shutter operating means, means for moving said actuating mechanism to frame the picture, a mounting for the shutter upon which it revolves, means comprising a pin and diagonal slot for moving said mounting longitudinally when the film mechanism is moved to frame the picture, and means actuated by the movement of said mounting to slide and turn the shutter on its mounting, whereby angular displacement of the shutter is effected and it is maintained in proper timed relation to the film actuating mechanism, substantially as described.

1,338,696. LAUNDRY-DRIER. JEFFREY J. POWER, Madison, Wis., assignor to Power, Stevens Fan Devices Company, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 7, 1916. Serial No. 135,538. 7 Claims. (Cl. 34—5.)



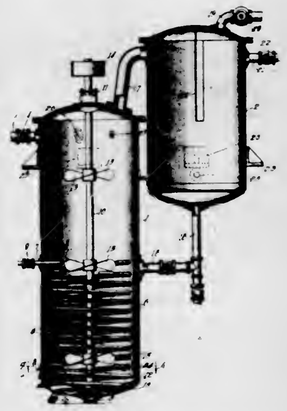
1. A laundry drier, including the combination with a casing provided with manually controlled means for admitting air, and also having an exhaust opening on the opposite side of the central portion of the casing from the inlet side, means for heating the air at the inlet portion of the casing, a container for fabrics interposed between the heating means and the casing outlet, said container having openings adapted to permit the air to circulate therethrough, and manually controlled auxiliary means for admitting air to the casing between the heating means and the container.

1,338,697. JOINT-ASSEMBLING MACHINE. LILLIAN L. RANDALL and EDWARD A. FRIES, Boston, Mass. Filed July 31, 1916. Serial No. 112,216. 23 Claims. (Cl. 29—84.)



1. A machine of the character described comprising a work holder, rollers adapted to upset a lip on the article being operated upon, means to move the work holder toward and away from the rollers, and means to rotate the work holder relatively to the rollers.

1,338,698. APPARATUS FOR MAKING CATALYZERS. WILLIAM H. RICHARDSON, Chicago, Ill., assignor to Swift and Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 26, 1915. Serial No. 63,550. 5 Claims. (Cl. 23—288.)



1. An apparatus for making catalyzers, comprising a reduction chamber, a baffle chamber communicating therewith, means for heating the reduction chamber, means located in said reduction chamber for agitating the charge placed therein, and means for continuously introducing a gaseous reducing agent into said reduction chamber.

2. An apparatus for making catalyzers, comprising a reduction chamber, a baffle chamber communicating therewith, a heating coil peripherally disposed about the interior of said reduction chamber, a rotatable shaft provided with downwardly acting propeller blades journaled in said reduction chamber, and means for introducing a gaseous reducing agent into the lower part of said reduction chamber.

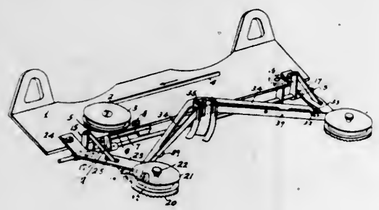
3. An apparatus for making catalyzers, comprising a reduction chamber, a baffle chamber communicating therewith, a heating coil peripherally disposed about the interior of said reduction chamber, a vertical shaft journaled

in said reduction chamber, downwardly acting propeller blades on said shaft, a perforated coil located in the lower part of said reduction chamber for supplying gas thereto, and a baffle in said baffle chamber located so as to separate liquid from gases entering from the reduction chamber.

4. An apparatus for making catalyzers, comprising a reduction chamber, a baffle chamber communicating therewith, a heating coil peripherally disposed about the interior of said reduction chamber, a vertical shaft journaled in said reduction chamber, downwardly acting propeller blades on said shaft, a perforated coil located in the lower part of said reductikon chamber for supplying gas thereto, a baffle in said baffle chamber located so as to separate liquid from gases entering from the reduction chamber, and a vacuum line communicating with said baffle chamber.

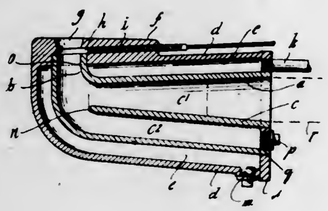
5. An apparatus for making catalyzers, adapted to contain a pressure less than atmospheric, comprising a reduction chamber, a baffle chamber communicating therewith for eliminating liquid from gases passing therethrough, a connection for returning said liquid to the reduction chamber, a heating coil peripherally disposed about the interior of said reduction chamber, a rotatable shaft journaled in said reduction chamber, downwardly acting propeller blades on said shaft, and a perforated coil located in the lower part of said reduction chamber for supplying gas thereto.

1,338,699. RIBBON MOVEMENT. LYMAN R. ROBERTS, Rutherford, N. J. Filed Aug. 17, 1917. Serial No. 186,735. 4 Claims. (Cl. 197—151.)



1. In a typewriter, a ribbon-feed mechanism including a rock shaft provided with a radial arm, an oscillatory bar engaging said arm, a cam for oscillating said bar, and a motor for operating said cam.

1,338,700. TWYER. GEORGE ROWLEY, Spotswood, Victoria, Australia. Filed June 3, 1919. Serial No. 301,432. 6 Claims. (Cl. 122—6.7.)



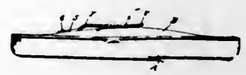
1. A twyer comprising, a tube, a water jacket formed around said tube, inlet and outlet holes for cooling water in the larger end of said water jacket, a boss on the outside of said jacket, an orifice in said boss, a bend at the forward end of said tube, communicating with said orifice, a bar slidable endwise over said orifice, and a longitudinal dividing partition in said tube, substantially as described.

1,338,701. COMBINED SOLID AND GASEOUS FUEL RANGE. HENRY H. SANFORD, Mansfield, Ohio. Filed Sept. 11, 1919. Serial No. 323,197. 7 Claims. (Cl. 126—36.)



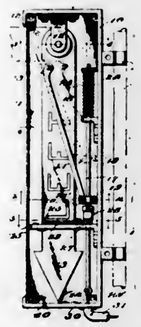
1. In a heating element, a side wall provided with an extended tapered portion forming a pocket, a lining attached to the side wall, a water coil associated with the lining, a burner located in the lower portion of the pocket and so positioned as to permit the flame of the burner to contact with the lower pipe of the water coil in the first instance, means to protect the burner from foreign substances, said lining also being provided with an opening underneath the water heating coil to communicate with the extended portion of the side wall to provide oxygen for the burner and a passageway for any foreign substance to direct its course of travel into the ash pit or pan.

1,338,702. CLASP. SAMUEL SCHRANTZ, St. Louis, Mo. Filed Nov. 25, 1919. Serial No. 340,546. 2 Claims. (Cl. 24—3.)



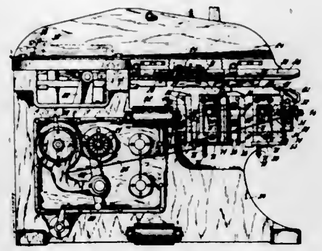
2. A device of the character described, consisting of a spectacle case having a crown portion at the center of the case gradually sloping toward each end thereof and a clasp for said spectacle case having a clasping portion adapted to bear against the crown of said case, a base portion secured to said case, and an intermediate outwardly bowed spring portion integral with said base portion and with said clasping portion, said spring portion and said base portion being arranged to lie below the apex of the crown of said case, all as and for the purposes set forth.

1,338,703. AUTOMOBILE-SIGNAL. EDWARD A. SENDKER, Bradford, Pa. Filed Dec. 26, 1918. Serial No. 268,292. 5 Claims. (Cl. 40—67.)



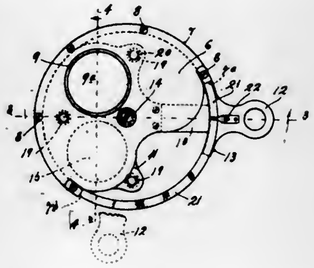
1. A direction indicator comprising a pivoted semaphore arm, means for moving the arm to active position, normally inactive means for holding the arm retracted and means carried by the arm moving means for rendering active the holding means when said moving means is inactive.

1,338,704. END-MATCHER. WILLIS S. SHERMAN, Milwaukee, Wis. Filed June 29, 1916. Serial No. 106,573. 21 Claims. (Cl. 144—91.)



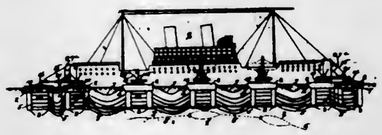
1. In a wood working machine, the combination of a head block, a member having a fixed position with relation to the head block, means for moving said member out of said fixed position, and a spring pressed presser bar angularly adjustable on the said member forming a work feeding passageway between its face and the head block.

1,338,705. VALVE. WILLIAM A. SHIMP, Minneapolis, Minn. Filed May 17, 1918. Serial No. 235,179. 2 Claims. (Cl. 251—18.)



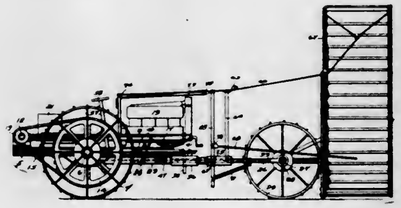
1. The combination with a valve casing having flat parallel surfaces and alined fluid passages, of a two-part valve engaging the parallel surfaces of said casing and pivoted thereto at a point eccentric to the fluid passages thereof, one of the members of said valve having a port with a sleeve-like extension through the other valve member, said port being movable into and out of alinement with the fluid passages of said casing, and springs interposed between the valve members at points circumferentially spaced around the port thereof, said springs yieldingly pressing the valve members into engagement with the surfaces of said casing.

1,338,706. PROTECTING DEVICE FOR SHIPS. EDWARD A. SMITH, New York, N. Y. Filed July 7, 1917. Serial No. 179,109. 15 Claims. (Cl. 114—240.



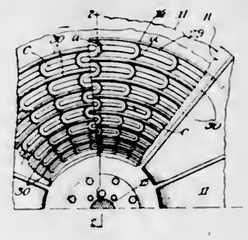
1. In apparatus for protecting ships, the combination of a plurality of units carried by the ship, means for launching said units from the ship simultaneously or individually, means connecting the units, the units and connecting means when launched forming a protecting barrier about the ship.

1,338,707. PUSHER FOR GRAIN-HEADING MACHINES. ELIJAH H. SPRINGER, Salt Lake City, Utah, assignor of one-half to E. C. Ashton, Salt Lake City, Utah. Filed Feb. 8, 1918. Serial No. 216,028. 3 Claims. (Cl. 180—12.)



1. In a device of the character described the combination with a draw bar, a bearing block carried thereby, a roller carried by the bearing block, an arcuate bar having a horizontal flange and a vertical flange and resting upon the roller of the bearing block and a yielding yoke carried by the bearing block and provided with rollers bearing upon the horizontal flange of the arcuate bar.

1,338,708. STEAM-TURBINE. ALBERT A. E. STERZING, New York, N. Y. Filed June 7, 1918. Serial No. 238,628. 1 Claim. (Cl. 253—94.)



1. In a turbine engine, the combination with a stator element having concentric series of facial reaction chambers constituted by I-shaped pockets having angular inner walls, thereby presenting curved impact and pressure surfaces and angular directing surfaces, said pockets also having division walls extending longitudinally thereof and terminating short of the curved impact and pressure surfaces of the respective pockets, of a rotor element having concentric series of facial chambers corresponding in form with and bridging the adjacent chambers of the stator element, the directing surfaces of the adjacent chambers in the rotor and stator elements being in opposite relation to each other, and said chambers gradually increasing in size from the inner to the outer series.

1,338,709. CATALYST AND PROCESS FOR PRODUCING THE SAME. NATHAN SULZBERGER, New York, N. Y. Filed May 28, 1915. Serial No. 30,915. 7 Claims. (Cl. 23—28.)

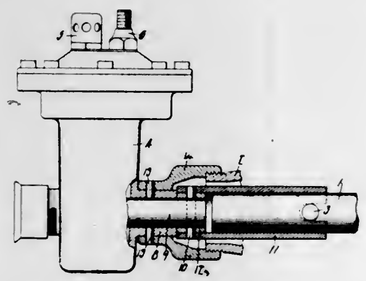
1. The method of preparing a catalyst, which comprises reducing a chemical compound of a metal possessing catalytic action with the borate radical, the amount of the borate radical being sufficient to serve as an effective carrier of the catalytic metal after reduction; substantially as described.

1,338,710. DOUCHE-NOZZLE. EDWARD V. SZYPERSKI, Detroit, Mich. Filed Sept. 25, 1919. Serial No. 326,259. 4 Claims. (Cl. 128—239.)



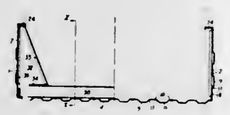
1. A douche nozzle having an opening in a side thereof, a container for a medicinal compound mounted in said opening and projected into the nozzle passageway adapted to permit the passage of water therethrough, and means for closing the outer end of said opening.

1,338,711. TIRE-PUMP. HUSTON TAYLOR, Detroit, Mich., assignor to Detroit Carrier and Manufacturing Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 16, 1915. Serial No. 67,145. 2 Claims. (Cl. 230—27.)



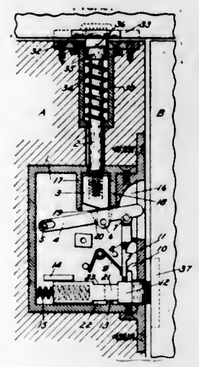
1. In combination with the engine shaft of a motor vehicle and a fixed member having an opening therethrough substantially concentric with the axis of the engine shaft, an air pump including a pump body and a pump shaft of less diameter than the engine shaft and in substantial alinement therewith, a clutch member on the engine shaft, a tubular clutch member inclosing the end of the engine shaft and engaging the clutch member thereon, a tubular bushing interposed between the tubular clutch member and the pump shaft, means for preventing relative rotation of the pump shaft, the bushing and the tubular clutch member, and means for detachably connecting the pump body to the fixed member and preventing rotation of the former in respect to the latter.

1,338,712. METAL BARGE. JOHN L. TAYLOR, Oakmont, Pa. Filed Dec. 20, 1917. Serial No. 208,152. 2 Claims. (Cl. 114—80.)



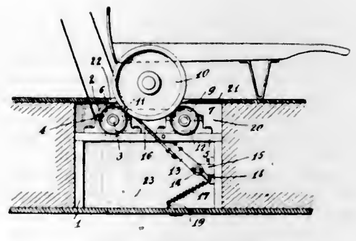
1. In a barge or similar floating craft, the combination with a series of cross frames or transverses located at intervals in the length of the barge, of a series of metal plates fastened to the cross frames and forming the sides and bottom of the barge, said bottom plates being corrugated longitudinally, and the corrugations being formed of flat parallel top and bottom portions joined by inclined side portions and extending lengthwise parallel with the length of the barge.

1,338,713. DOOR-LOCK. JAY TONEY, Omaha, Nebr. Filed Nov. 13, 1917. Serial No. 201,881. 8 Claims. (Cl. 292—335.)



1. The combination, with a pair of hinged swinging doors, of a locking mechanism for one of said doors comprising a locking bolt, a member suitably attached to the door casing with which said bolt cooperates to lock the door, and suitable controlling devices for said bolt whereby the act of closing the other door of the pair serves to release the said bolt to lock the said first door.

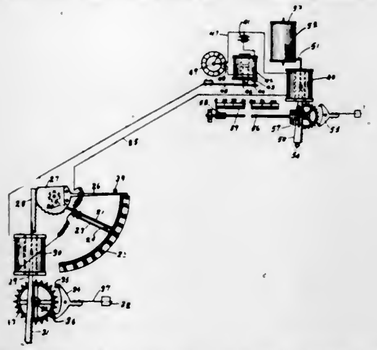
1,338,714. MACHINE FOR CLEANING TRUCK-WHEELS AND THE LIKE. FRANK J. WAGNER, Yonkers, N. Y. Filed Dec. 19, 1919. Serial No. 346,124. 7 Claims. (Cl. 280—158.)



1. In a machine for cleaning truck wheels a pair of spaced rolls mounted to rotate in the same plane, a scraper, and means for maintaining the edge of said scraper against the periphery of a truck wheel when the said periphery is in contact with the peripheries of said rolls.

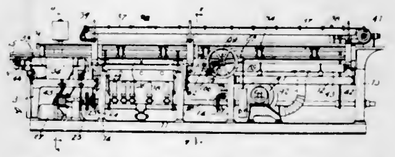
1,338,715. ELECTRIC RECORDER. HORACE H. WELCH, Chicago, Ill. Filed Oct. 12, 1918. Serial No. 257,858. 15 Claims. (Cl. 234—11.)

1. In a measuring system of the character described, the combination of means under the influence of a variable condition whose position corresponds at all times to the status of such condition, a movable member, a recorder, electro-magnetic means to move said member at intervals from a normal position to one corresponding to that of said first means and to permit said member to return to normal position and to operate said recorder synchronously



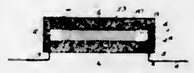
with the movement of said member, and means to retard the action of said electro-magnetic means, substantially as described.

1,338,716. SOLDERING-MACHINE. MAGNUS E. WIDELL, Maywood, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 3, 1916. Serial No. 112,903. 12 Claims. (Cl. 113—61.)



1. In a soldering machine the combination of a horn along which can bodies may be conveyed, a solder applying mechanism disposed adjacent said horn and adapted to apply solder to said bodies as they are conveyed along said horn, means for moving bodies along said horn, a conveyer for feeding bodies to said horn, and means outside of the can bodies with which their side seams are engageable for maintaining said bodies with the seam in accurate position when engaged by said conveyer.

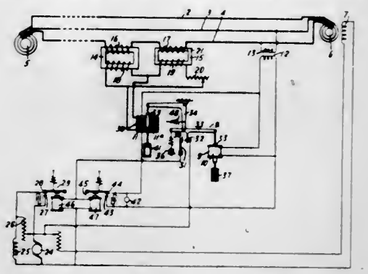
1,338,717. PROCESS OF MAKING ELECTRICAL RESISTANCE UNITS. CHARLES WIRT, Philadelphia, Pa. Filed Oct. 22, 1918. Serial No. 259,167. 6 Claims. (Cl. 219—64.)



1. The process of making resistance units, which comprises winding a conductor of high electrical resistance upon a core, securing an element to each end of the core and of the conductor, supporting the core within a shell having open ends and an open side by means of the elements in such a manner that the core, conductor and elements will be out of contact with the shell, temporarily closing the ends of the shell, filling the shell through the open side thereof to the level of the edges thereof with an insulating heat resisting material in liquid or semi-liquid form.

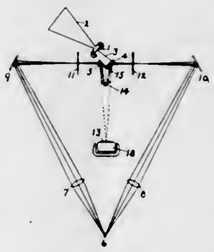
1,338,718. REGULATING SYSTEM. WALTER R. WOODWARD, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 11, 1916. Serial No. 108,574. 8 Claims. (Cl. 171—119.)

1. In an alternating current distributing system, the combination with a current-carrying winding, of a plurality of transformers connected to said distributing systems and jointly generating the current that traverses said winding, said transformers having dissimilar regu-



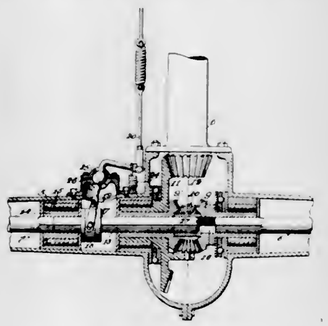
lation characteristics and one of them predominating in determining the current flow through said winding after predetermined load conditions obtain in the distributing system.

1,338,719. PHOTOGRAPHIC PHONOGRAPH. FRANK W. ADSIT, St. Paul, Minn. Original application filed Dec. 4, 1916, Serial No. 135,265. Divided and this application filed Feb. 25, 1918. Serial No. 219,150. 3 Claims. (Cl. 274—5.)



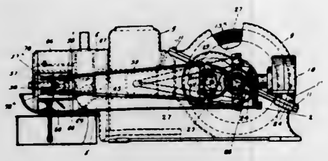
1. In a photographic phonograph the combination of a sensitized film, a source of light, means controlled by sound vibrations whereby light may be thrown on one side or the other side of the center line of said film, and stationary means for preventing light being thrown on both sides of said center line at the same instant.

1,338,720. DIFFERENTIAL-LOCKING MECHANISM. HARRY O. DARR, near Marion, Iowa. Filed Dec. 9, 1919. Serial No. 343,627. 6 Claims. (Cl. 74—100.)



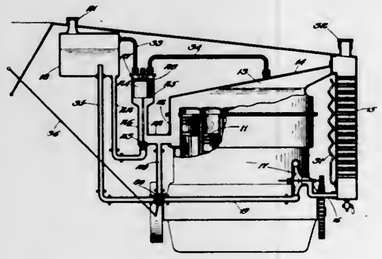
1. In a differential gear, the combination of independent driving axles, an interlocking, intermediate axle-section, and means for shifting said intermediate section into and out of locking engagement with the others.

1,338,721. INTERNAL-COMBUSTION ENGINE. ALBERT Y. EDWARDS, Springfield, Ohio. Filed Feb. 7, 1918. Serial No. 215,792. 8 Claims. (Cl. 123—195.)



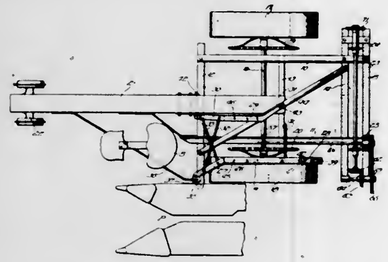
1. In an internal combustion engine, a one-piece base portion consisting of a central base, a side base member, a crank shaft supported within the central portion, gear mechanism supported within the side base portion, the central base portion and the side base portion being provided with finished alined surfaces around their exterior parts, and means on said surfaces for supporting the parts mentioned above.

1,338,722. COOLING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. STEPHEN IVAN FEKETE, Detroit, Mich., assignor, by mesne assignments, to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed June 2, 1916. Serial No. 101,423. 5 Claims. (Cl. 123—170.)



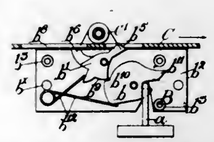
1. In combination with an internal combustion engine, a cooling system including a tank and a condenser vented to the atmosphere, said system being arranged for use so that the cooling shall take place therein either wholly by condensation or wholly by water circulation.

1,338,723. CORN-PICKER. FREDERICK I. FRIEDLINE, Kentland, Ind. Filed July 12, 1918. Serial No. 244,530. 3 Claims. (Cl. 56—18.)



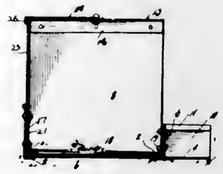
1. In a harvesting machine comprising a corn picking section, a receiving section, a conveyer between said sections, and a seat between said sections and in front of said conveyer, a driving engine, and a supporting frame for said engine secured between said sections and said conveyer and seat.

1,338,724. APPARATUS FOR RELEASING BODIES FROM AIRCRAFT. ARTHUR HENRY GLEDHILL, Halifax, England. Filed Aug. 1, 1918. Serial No. 247,875. 8 Claims. (Cl. 244—1.)



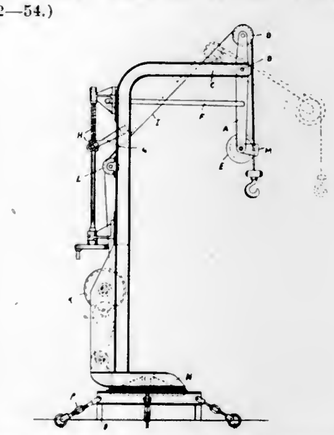
1. In apparatus for releasing bodies from aircraft, a locking and releasing unit comprising a body suspension lever, a combined locking and releasing lever pivoted between two side plates having rollers for guidance of a slide and guide slots for the passage of a loop by which the body is suspended from the suspension lever, the latter having a step and the locking and releasing lever a circumferential portion adapted to be maintained in contact therewith by a spring, and a tail piece adapted to interlock with the slide and also to be operated thereby to release the suspension lever.

1,338,725. SANITARY HEN'S NEST. SAMUEL S. GOOD, Jenkintown, Pa. Filed Apr. 2, 1919. Serial No. 286,830. 2 Claims. (Cl. 119—45.)



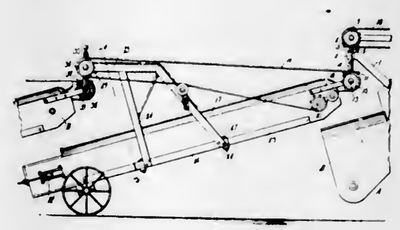
1. A hen nest of the class described constructed of sheet metal and embodying a reticulated bottom mounted in a frame, a running board having a stiffening rib along its front edge and an upstanding rear wall, end members secured to said rear wall, said bottom having its front edge hinged to the rear edge of the running board, a sectional back secured to the rear ends of said end members, one section being fixed and the other movable, the movable section being hinged to the fixed section, and catches for holding said movable section and said bottom in closed position.

1,338,726. LUFFING MECHANISM FOR JIB-CRANES. JOHN NICOLSON GOUDIE, Hunters Quay, Scotland. Filed Oct. 1, 1919. Serial No. 327,641. 2 Claims. (Cl. 212—54.)



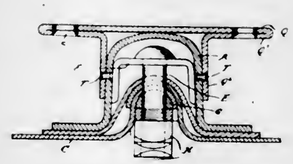
1. The combination with a jib of a rocking beam fulcrumed in the free end of said jib, two pulleys one disposed at the upper end of said beam and one disposed at the lower end of said beam, a hoisting rope wrapping said pulleys and means for rocking said beam, the disposition of the fulcrum of the beam in relation to the pulleys being such that the vertical component of the outward movement of the lower pulley is balanced by the oppositely directed vertical component of the inward movement of the upper pulley whereby the load is luffed in a substantially horizontal path, substantially as described.

1,338,727. SHELLER-DRAG. EDWARD J. GRETENCORD, Ottawa, Ill. Filed Nov. 21, 1918. Serial No. 263,556. 3 Claims. (Cl. 193—14.)



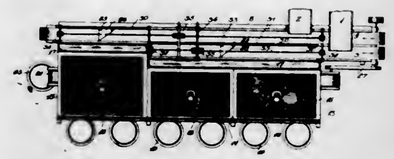
2. An attachment of the character described including the combination with a conveyer carrier having longitudinally ribbed sides, of a suspension bracket adjustably associated with said carrier, said bracket comprising side standards extending upwardly from opposite sides of the carrier, stringers carried by said standards for engaging the ribs of the said ribbed carrier sides, base strips straddling the bottoms of said carrier and connecting the said standards at their lower ends, clamping plates carried by the said stringers to overlap the said ribs of the carrier sides, means for releasably clamping said plates and base strips respectively against the ribs of the carrier sides and the bottom of the carrier for maintaining said carrier immovable upon the bracket, and suspension arms supported at the upper connected ends of said side standards at an angle to the said base strips whereby said carrier may be suspended from the sheller drag with one end elevated for connection to the receiving end of a corn sheller and with the other end lowered for appropriate engagement with the discharge end of a sheller drag.

1,338,728. RUNNING-BOARD SADDLE. DAVID W. HAWKSWORTH, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Original application filed Nov. 22, 1917, Serial No. 203,317. Patent No. 1,299,939, dated Apr. 8, 1919. Divided and this application filed Aug. 30, 1918. Serial No. 251,999. 5 Claims. (Cl. 105—457.)



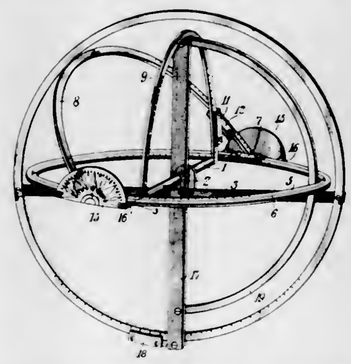
1. In a car roof, the combination with a carline of arch form, of a running-board saddle secured to said carline comprising a flat top portion having downturned danges for embracing the sides of the carline, and depressed bearings in the flat top portion at the ends of said saddle for resting upon the carline.

,338,729. SORTING APPARATUS. GEORGE S. HELENBOLT, Middleport, N. Y., assignor to The Rex Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 24, 1919. Serial No. 325,998. 7 Claims. (Cl. 130—32.)



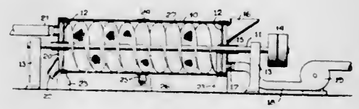
1. In a sorting apparatus, the combination with a table nd a conveyer arranged to travel adjacent said table, of a deflector movable relatively to said table and adapted to eject articles from the conveyer at different selected points to deposit them upon desired portions of the table, said deflector adapted to eject articles from the conveyer during its movement as well as when the deflector is stationary.

1,338,730. SPHERICAL TRIANGLE CALCULATOR. ROBERT HUNTINGTON, Rosebank, N. Y. Filed Dec. 21, 1918. Serial No. 267,745. 10 Claims. (Cl. 33—1.)



1. A device of the class described comprising in combination, an equatorial or hour angle circle, an axis fixed with relation to said circle perpendicular to the plane of said circle through the center thereof, a latitude circle fixed with respect to said axis, a meridian circle surrounding said latitude circle and movable thereon, a declination circle pivoted on said axis, a zenith distance circle pivoted on said meridian circle, means for indicating the angular position of the axis of said zenith distance circle on said latitude circle, means for indicating the intersection of said declination with said equatorial circle on the latter, and means for indicating the point of intersection of said declination circle and said zenith distance circle on both said declination and zenith distance circles.

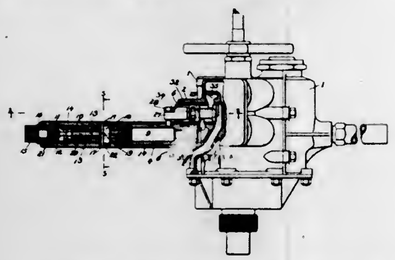
1,338,731. DRIER. WARREN B. HUTCHINSON, Newark, N. J., assignor of one-half to Albert Blackburne, New York, N. Y. Filed May 23, 1919. Serial No. 299,253. 3 Claims. (Cl. 34—5.)



1. A rotary imperforate drier having a screw feed for material therein, the screw being perforate for the passage

of air, and means for forcing a drying medium through the screw and drier in the opposite direction to the feed of the screw.

1,338,732. REVERSING MECHANISM FOR FLUID-ENGINES. FRANCIS A. JIMERSON, Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 11, 1917. Serial No. 179,873. 11 Claims. (Cl. 121—138.)



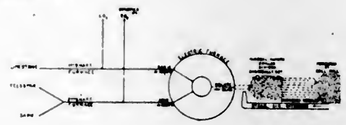
1. In a reversing mechanism for fluid engines, in combination, a throttle valve, a reversing valve and a rotating sleeve, means connecting said rotating sleeve to said throttle valve and reversing valve whereby rotation of said sleeve opens and closes said throttle valve and varies the position of said reversing valve.

1,338,733. HOSE-SUPPORTER. LILLIAN JOHN, New York, N. Y. Filed Aug. 2, 1917. Serial No. 184,113. 1 Claim. (Cl. 24—245.)



In a hosiery supporter, the combination of two wire loops, each substantially of the same size and of substantially a kidney shape in front elevation, said loops adapted to fit flat against the wearer's leg to hold the hosiery fabric therebetween, said loops designed when in active position to have their longer axes disposed across the line of strain on the fabric and each provided with a relatively wide strain receiving lower edge, one of said loops constituting an upper, inner member and provided with a fabric receiving opening with its lower portion defined by one of said strain receiving lower edges, said opening adapted to have the held portion of the fabric inserted therethrough, strain receiving means for supporting the upper portion of said upper, inner member, the other loop constituting a lower member adapted to be inserted with the fabric through said opening and positioned thereby beyond the plane of said upper loop and concealed by said fabric, said lower member when forced through being free to move downwardly, the lower strain receiving edge of said lower member being positioned below the corresponding edge of the upper member thereby causing a relatively extensive width of the held fabric to pass S-shaped over the strain receiving edge of the upper member, and then under, in advance of an over the lower member, the pull of said fabric tending to raise the lower member bodily in the opening and into engagement with the upper member to additionally hold the fabric between the loops, each of said loops provided at their upper ends with laterally extending shoulders coacting to constitute stops for limiting said upward movement of the lower member, said shoulders positioning said loops in front of the supporting parts thereof.

1,338,734. MINERAL-MANURE PROCESS. WOOLSEY MCA. JOHNSON, Hartford, Conn. Original application filed Feb. 2, 1915, Serial No. 5,787. Divided and this application filed June 21, 1918. Serial No. 241,155. Renewed Feb. 6, 1920. Serial No. 356,798. 10 Claims. (Cl. 204—64.)



1. A fertilizer making process which comprehends forming a slag containing a solute having high potassium content and proportioned to correspond with a predetermined fertilizer composition and then blowing the fluid slag into a fine state of sub-division.

1,338,735. PORTABLE ADJUSTING-TABLE FOR USE OF CHIROPRACTORS. SAMUEL E. KAUFMAN, Beaver Dam, Wis. Filed July 10, 1918. Serial No. 244,317. 5 Claims. (Cl. 128—72.)



1. In a chiropractic table, the combination with a folding bed composed of two boards or plates suitably hinged together, of folding supports hinged to the plates at the upper end thereof and folding braces secured to the supports adapted to engage slots in the board or plates, and aid in supporting the bed.

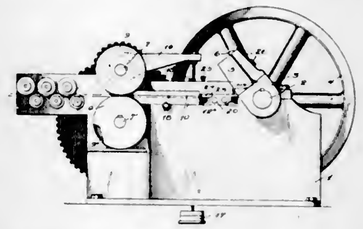
1,338,736. COMPOSITION OF MATTER FOR USE IN THE WELDING OF STEELS AND IRON. EDWARD D. KENDALL, Elizabeth, N. J., assignor of one-half to Haggin Estate, Inc., a Corporation of New York. Filed Apr. 9, 1919. Serial No. 288,851. 2 Claims. (Cl. 148—24.)

1. A welding compound, to be used in the welding of steels and iron, consisting of diatomite combined with a proportionately small quantity of a comminuted metal that is chemically electro-positive to iron and combined also with a relatively small quantity of calcium fluorid.

1,338,737. LOCK-WASHER-MAKING MACHINE. FRANK KESSEL, Mansfield, Ohio, assignor to The Mansfield Lock Washer Company, Mansfield, Ohio, a Corporation. Filed Dec. 18, 1916. Serial No. 137,701. 1 Claim. (Cl. 153—65.)

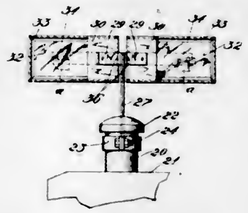
A machine for making lock washers and the like, including a mandrel and a coil forming die, a rotary shaft in front of and substantially parallel with the mandrel, a guide-way and means in rear of the mandrel for feeding a bar forward to form a coil upon the mandrel, the guide-way being in a line radiating from the rotary shaft and

there being a shearing edge on the mandrel, and a cutting tool radiating from the rotary shaft having a shearing



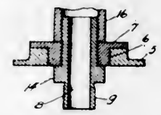
edge coöperating with the shearing edge of the mandrel for squarely cutting and severing washers formed on the mandrel.

1,338,738. AUTOSCOPE. JOHN KOMETTER, Jr., Milwaukee, Wis. Filed Feb. 28, 1919. Serial No. 279,759. 3 Claims. (Cl. 88—67.)



1. In a device of the class described, a split collar attached to the radiator nozzle of an automobile, a pair of brackets extending horizontally forward from said collar, the ends of said brackets being bent back toward said collar, vertical mirrors on the ends of said brackets, a second pair of horizontal brackets secured between said first named brackets and extending forward therefrom, the ends thereof being bent back toward said collar, and vertical mirrors on the ends of said second-named brackets.

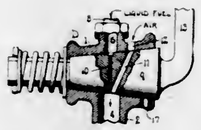
1,338,739. PUMP-COUPLING. FRANK A. LANE, Mendon, Mo. Filed Feb. 12, 1920. Serial No. 358,287. 4 Claims. (Cl. 103—65.)



1. The combination with a container provided with a threaded opening, a bushing externally threaded to fit said opening, a hose coupling threaded through said bushing, and a pump having its base portion formed with a threaded socket screwed onto the outer end of said coupling.

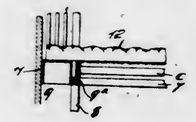
1,338,740. ATOMIZING-PRIMER FOR INTERNAL-COMBUSTION ENGINES. JOHN D. PERRY LEWIS, St. Louis, Mo. Filed Oct. 10, 1918. Serial No. 257,615. 2 Claims. (Cl. 123—180.)

1. An atomizing primer for internal combustion engines comprising a valve housing constructed with a neck terminating in a nipple and formed with a contracted liquid fuel inlet in the valve housing, an elongated receiving chamber in the neck, a discharge orifice in the nipple of smaller diameter than the receiving chamber and a radial air inlet port in the housing, a valve loosely arranged in the valve housing and formed with a transverse duct of small diameter connecting the contracted inlet



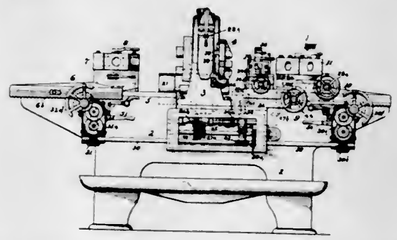
with the receiving chamber, and an inclined air duct extending from the radial air inlet port to the inner end of the transverse duct within the receiving chamber, and means for operating the valve.

1,338,741. COMBINATION BEDSTEAD AND WARDROBE. BENJAMIN LIPSHITZ, Brooklyn, N. Y. Filed Nov. 26, 1919. Serial No. 340,895. 1 Claim. (Cl. 5—4.)



A bedstead comprising post members, side rails connecting the post members, a cross bar connecting two of the post members, an arcuate extension carried by the post members having the cross bar, and a filler located in the space between the cross bar and arcuate extension, the top of said filler being located somewhat above the top surface of the side rails and cross bar so as to lie flush with the top of a bed spring, carried by the side rails and cross bar.

1,338,742. LATHE. HERBERT M. LOFTON, Chattanooga, Tenn. Filed Mar. 8, 1916. Serial No. 82,798. Renewed Mar. 11, 1920. Serial No. 365,097. 14 Claims. (Cl. 29—36.)



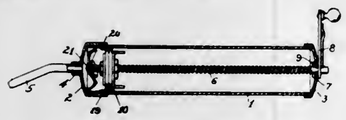
1. In a lathe, a main bed, combined with a chuck journaled thereon, a main slide movable to and from the chuck, an auxiliary slide carried by the main bed and movable parallel to the axis of the chuck, but arranged to one side of the chuck and out of alinement with the main slide, a tool-holding slide adjustable upon the auxiliary slide transversely to the axis of the chuck, an adjustable tool-holder carried by the tool-holding slide and movable therewith transversely to the axis of the chuck and said tool-holder adjustable relatively to the tool-holding slide about a vertical axis, adjusting devices for adjusting the tool-holding slide transversely upon the auxiliary slide, automatic feeding devices for feeding the auxiliary slide, and cam devices arranged in the path of the tool-holder for causing it to be automatically shifted transversely to the axis of the chuck during the longitudinal traversing movement of the auxiliary slide, said devices comprising a hinged bar, the hinge of which is formed upon the main frame and the bar movable in the direction of the axis of the hinge, a guide upon the tool-holding slides for main-

taining the hinged bar parallel to the axis of the chuck, and a cam secured to the hinged bar for operating upon the tool-holder.

4. In a lathe, the combination of a bed, a chuck journaled thereon intermediate of the ends and open at both front and back to expose the opposite ends of the work, a main turret in front of the chuck, a main turret at the rear of the chuck, means for moving the turrets to or from the chuck, two auxiliary turrets respectively arranged upon opposite sides of the axis of the chuck and between said chuck and one of the main turrets, hand feeding devices for independently feeding the auxiliary turrets to and from each other transversely to the axis of the chuck, feeding means for feeding longitudinally movable auxiliary turrets parallel to the axis of the chuck, a sliding tool-holder carried by the auxiliary turret having the capacity for longitudinal feeding, and adjustable cam templet devices for automatically imparting a sliding motion to the tool-holder transversely to the axis of the chuck during the longitudinal feeding adjustment of the auxiliary turret.

10. In a lathe, the combination of a bed, a chuck rotatably mounted thereon, a slide mounted on the bed to have longitudinal motion parallel to the axis of the chuck, means for feeding the slide, an auxiliary slide carried by the first mentioned slide with provision for transverse adjustment thereon in a direction to and from the axis of the chuck, means to feed the auxiliary slide, a tool-holding head carried by the auxiliary slide and having two sets of cutting tools one set thereof adapted for being positively clamped in position on the head, a slidable tool-holder mounted in the head for the other cutting tool said holder movable toward and from the axis of the chuck, automatic cam operating means for shifting the tool-holder during the transversing of the slides and tool-holding head parallel to the axis of the chuck, and means for putting the cam devices out of operation when it is desired to use the tools fixedly held in the head for parallel turning.

1,338,743. SELF-FILLING GREASE-GUN. KENT E. LYMAN, Cleveland, Ohio. Filed Sept. 8, 1919. Serial No. 322,280. 5 Claims. (Cl. 221—79.)



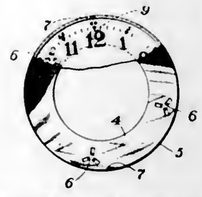
1. In a grease gun, the combination of a body, a conveyer for drawing grease into the body, a plunger for forcing the grease out of the body, and common means for operating the conveyer and the plunger, substantially as described.

1,338,744. ICE-CREAM-CONE CARRIER. FRANK E. MCINTOSH, Burlington, Vt., assignor to Cone Carrier Corporation, Burlington, Vt., a Corporation of Maine. Filed Dec. 18, 1919. Serial No. 345,888. 2 Claims. (Cl. 229—6.)



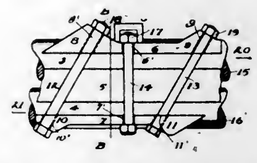
1. In a cone carrier, a body comprising an oblong strip of cardboard having a plurality of perforations along its longitudinal center and having its opposite lateral edges bent upwardly and inwardly toward each other for providing angular flanges, and a strip of metal having one lateral edge bent upon itself and tightly gripping the flanges at each side of said body, the opposite edges of the metal strips folded around the bends of the body and clenched against the bottom of the body.

1,338,745. DIAL AND DIAL-FASTENER. WILLIAM T. MALONEY, Waterbury, Conn., assignor to Robert H. Ingersoll & Bros., New York, N. Y., a Joint-Stock Association. Filed June 21, 1918. Serial No. 241,184. 5 Claims. (Cl. 58—127.)



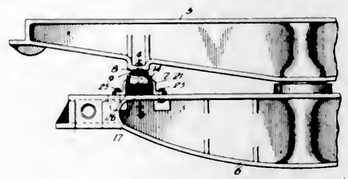
2. A fastener for watch dials comprising a sheet metal piece having an upstanding flange, and a projection pressed in from the flange at a point below the upper edge, leaving said edge intact, said projection being hollow and presenting an unbroken wall continuous with the flange, substantially as described.

1,338,746. ROD-SPLICING CLAMP. BERTON M. MATHIAS, Minneapolis, Minn. Filed Dec. 26, 1916. Serial No. 139,052. Renewed June 3, 1918. Serial No. 238,043. 3 Claims. (Cl. 287—118.)



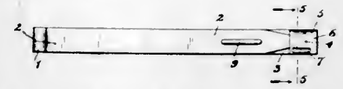
1. In a rod splicing clamp, the combination of a pair of substantially cylindrical contractible members joined together longitudinally, a stiffening rib forming a part of and positioned between the main body of said contractible members, an exterior stiffening rib running longitudinally of each of said contractible members, slots in each of said exterior ribs for passing therethrough a bolt having a head at one end and adapted to carry a nut on the other end by a screw connection, a cap partly surrounding the nut end of said bolt and a nut placed thereon and having interior dimensions to prevent the nut from turning, a strap carried by one of said contractible members and adapted to be bent down over the head end of said bolt after its is positioned in the slots in said exterior ribs.

1,338,747. SIDE BEARING FOR RAILWAY-CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 1, 1916. Serial No 81,329. 9 Claims. (Cl. 64—64.)



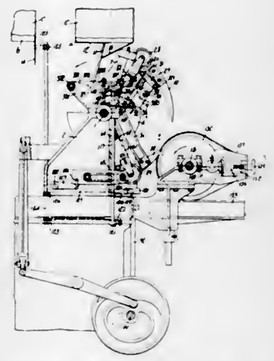
1. In a side bearing for railway cars, in combination: a bearing plate, rollers to engage said plate, a cradle forming a mounting for the rollers, a member upon which the cradle is seated, and a saddle secured to said member and passing over the cradle between the rollers.

1,338,748. HAIR-CURLER. HARRY RADZINSKY, New York, N. Y. Filed Mar. 11, 1920. Serial No. 365,029. 9 Claims. (Cl. 132—18.)



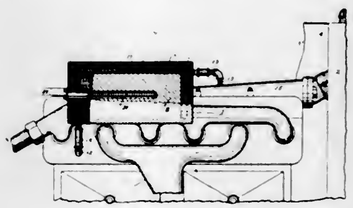
1. A hair curler having a pair of flat resilient arms, means for holding the ends of the arms together, comprising a hood, said hood being formed by a transversely bent extension of one of the arms at its end, a projection formed at the edge of said transversely bent extension, and a projection at the edge of the arm below the projection on the extension, said projections contacting and resiliently closing the entrance to the hood.

1,338,749. END FOLDING AND SEALING MACHINE FOR CARTONS. GEORGE A. ROBINSON, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Maine. Filed June 23, 1919. Serial No. 306,084. 28 Claims. (Cl. 93—44.)



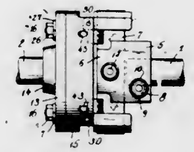
28. In a machine for folding and sealing the end forming flaps of a carton, the combination of a stationary forming block upon which the carton is held, a rotary carrier, flap folders and flap gluing rolls mounted on said carrier, the said rotary carrier during its rotation on its axis causing the flap folders to fold two end flaps of the carton against the block and causing the gluing rolls to pass over the folded flaps and apply a layer of glue thereto, both the flap folders and the gluing rolls passing over and continuing beyond the end face of the block after their separate functions are performed.

1,338,750. HEAT-STORING ATTACHMENT FOR RADIATOR SYSTEMS. EDWARD V. SCHRANCK and EDWARD F. KUNKEL, Milwaukee, Wis. Filed Feb. 4, 1918. Serial No. 215,408. 6 Claims. (Cl. 123—174.)



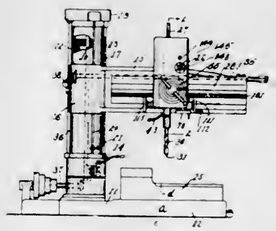
1. A heat storing attachment for water jacketed internal combustion engines, comprising the combination with said water jacket and connections, of a chamber through which the water may circulate, and a block of steatitic material associated with said chamber and adapted to absorb heat when the engine is in operation and to give up heat to the surrounding water when the engine is at rest.

1,338,751. SHAFT-COUPLING. WOLFGANG E. SCHWARZMANN and FREDERICK DRAKE NORMAN, Springfield, Mass., assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 2, 1918. Serial No. 210,064. 15 Claims. (Cl. 64—90.)



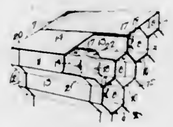
1. Means for releasably securing two coaxial shafts in a predetermined angular relation, comprising a member fastened on one shaft in angularly adjusted position, a member fastened on the other shaft, an arm fixed to one member, and a pivoted latch carried by the other member and coöperative with the arm in but a single position so as to lock the members from displacement with the shafts in the predetermined angular relation.

1,338,752. DRILLING MACHINERY. AUGUSTUS M. SOSA, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 10, 1917. Serial No. 190,654. 11 Claims. (Cl. 77—28.)



1. In a drilling machine, the combination of a work-support, a tool-slide arranged for having a drilling tool secured thereon above said work-support, and means for laterally adjusting said tool-slide toward the right or left for causing the point of said drilling tool to register with a given point on the work on said work-support, said means including a manual operating part at the right of said tool-slide and a manual operating part at the left of said tool-slide for effecting said adjustments.

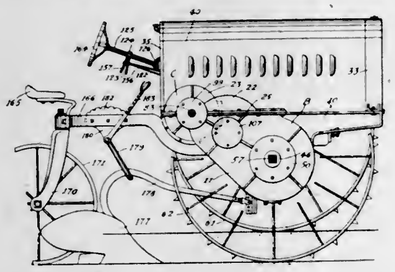
1,338,753. RADIATOR. HARRY SOSSKIN, Philadelphia, Pa. Filed Feb. 27, 1919. Serial No. 279,633. 2 Claims. (Cl. 257—130.)



1. A radiator of the character described including a plurality of units, each of said units consisting of a continu-

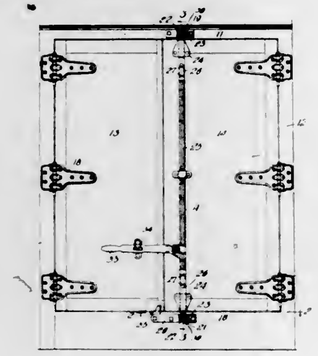
ous strip of material having portions bent to provide adjacent rows of ducts, the outer side portions of each of said units at their front and rear ends being offset, whereby when two units are placed together and said units are connected at said projecting parts a passageway will be provided between said units, the engaging portions between said adjacent rows in each unit being in engagement throughout the entire depth of the unit; substantially as described.

1,338,754. TRACTION-ENGINE. MICHAEL STAHL, Minneapolis, Minn., assignor to Cultitractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Dec. 27, 1917. Serial No. 209,028. 19 Claims. (Cl. 180—17.)



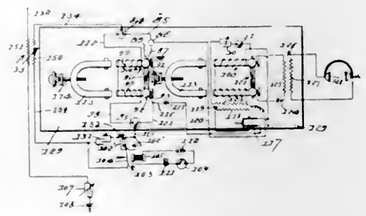
1. A traction engine comprising a frame consisting of two side member castings each formed with inwardly-projecting rear portions, said portions being bolted together at the median line of the traction engine, said castings embodying connected chambers, and a cap member bolted to both castings and forming in conjunction therewith housing chambers for all transmission and drive elements.

1,338,755. DOOR-OPERATING MECHANISM. SVEN J. STRID, Chicago Heights, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 1, 1917. Serial No. 199,758. 3 Claims. (Cl. 268—9.)



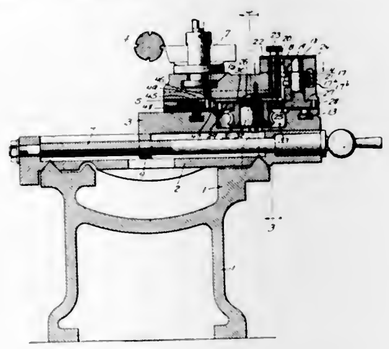
1. In a car door operating mechanism, the combination of a pair of hinged doors, adapted to be forced into tight engagement along their meeting edges, a vertical rotary shaft mounted in bearings which are fixed on one of the doors near their meeting line whereby the shaft is held from lateral movement relative to the door on which it is mounted, toothed gears fixed on the shaft near its ends and arranged beyond the top and bottom edges of the door, corresponding toothed racks fixed on the car body and engageable by said gears, the solid and untoothed parts of said racks being arranged out of the paths of the solid parts of the gears so that the gears may pass the racks as the doors move to closed position, and means for turning said shaft.

1,338,756. RECEIVER FOR WIRELESS TELEGRAPH AND TELEPHONE CIRCUITS. FRANK E. SUMMERS, Memphis, Mo. Filed Apr. 28, 1916. Serial No. 94,195. 5 Claims. (Cl. 250—32.)



1. A receiver for wireless telegraph and telephone waves comprising a plural number of coherers connected in concatenation, a polarized electro-magnet for influencing each coherer, a transformer, connections between the secondary of the transformer and the polarized electro-magnet of one coherer, a circuit including the primary of the transformer and the other of the coherers, and means for conducting Hertzian waves to the electro-magnet of the said latter coherer whereby the received impulses produce alternations of greater amplitude.

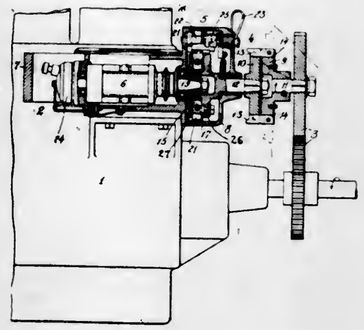
1,338,757. RELIEVING ATTACHMENT FOR LATHES. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Tool Company, Rockford, Ill., a Corporation of Illinois. Filed Sept. 8, 1917. Serial No. 190,304. 7 Claims. (Cl. 82—19.)



2. A relieving attachment for lathes including a movable tool slide, a spindle having a plurality of cams thereon having various degrees of throw, a screw stem mounted in the tool slide and having a bearing member threaded thereon and adapted to be engaged by one of the cams to move the slide as the spindle is rotated, means for returning the slide to its initial position at the end of each movement, the bearing member being movable by an adjustment of its stem into engagement with any one of the cams, and means for rotating the cam spindle.

1,338,758. IMPULSE STARTING MECHANISM AND METHOD OF OPERATING THE SAME. MAX TOST, Detroit, Mich., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 2, 1918. Serial No. 210,063. 15 Claims. (Cl. 123—149.)

1. The method of repeating the impelling movement of an impulse starting mechanism arranged between rotary driving and driven units, which consists in disconnecting the units from each other, restressing the im-



pelling spring of the impulse starting mechanism while maintaining the driving unit at rest, reconnecting the units, and finally releasing the restressed impelling spring.

1,338,759. VALVE. WILLIAM H. WASHBURNE, Chicago, Ill., assignor to Self Seating Valve Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1919. Serial No. 297,063. 1 Claim. (Cl. 123—188.)



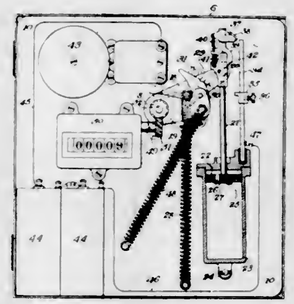
A frusto-conical valve comprising a body of thin flexible disks lying upon each other, stiff end plates one lying above and the other below said disks, and means for clamping said end plates and disks together, each of said plates being of approximately the same diameter as the adjacent disk, and each of the plates having a marginal portion reduced in thickness to approximately the thickness of one of the disks.

1,338,760. WATER-HEATER. EZRA T. WELLS, Chicago, Ill. Filed May 3, 1919. Serial No. 294,619. 3 Claims. (Cl. 122—18.)



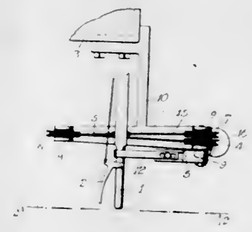
2. A unitary structure of the character described having in combinative association an elongated tank providing a lower convex smooth end wall, a pair of spaced apart diaphragms near the lower end of said tank providing two water chambers and an air space therebetween; a water pipe connected to the substantial center of the lower diaphragm extending through the substantial center of the tank and opening at its upper end near the upper end of the tank; a larger concentrically disposed pipe connected to the upper diaphragm surrounding the water pipe, to provide a dead air space between the pipes extending substantially the full length of the water pipe and closed at its upper end; a bypass around said diaphragms and a fuel burner under the lower end of the tank.

1,338,761. TIMING MECHANISM FOR INTERMITTENTLY-FED MACHINES. CHARLES P. WETMORE, Milwaukee, Wis., assignor, by mesne assignments, to Koehring Machine Company, Milwaukee, Wis. Filed July 19, 1915, Serial No. 40,539. Renewed Nov. 12, 1919. Serial No. 337,624. 18 Claims. (Cl. 161—1.)



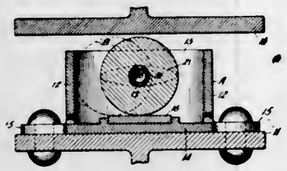
14. In combination with a movable machine-charging device, timing mechanism comprising a spring propelled member, means intermediate the charging device and said member whereby the latter may be set into operation at a predetermined time by the charging device, and a signal for indicating the duration of operation of a machine charged by said charging device and arranged to be controlled to perform its signaling function at a predetermined time during the movement of said spring propelled member.

1,338,762. ELECTRICAL WELDING-MACHINE. EDWIN M. BASSLER, Milwaukee, Wis. Filed Oct. 6, 1919. Serial No. 328,767. 3 Claims. (Cl. 219—4.)



1. In a welding machine of the type specified, the combination with the pressure lever thereof, of a weight applied thereto adapted for imparting movement thereto to subject the pieces to be welded to a desired welding pressure, means for retracting said pressure lever into inoperative position against the force of said weight, and means adapted for securing said pressure lever in inoperative position, substantially as described.

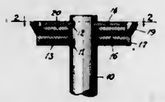
1,338,763. SIDE BEARING. WILLIAM A. BOCK, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Apr. 3, 1919. Serial No. 287,221. 4 Claims. (Cl. 64—64.)



1. In a roller bearing, the combination with a retaining member, of an anti-friction roller adapted to roll back and forth with respect to said member, the latter having upstanding side walls opposite the ends of said roller, the inner faces of said walls being formed with opposed sets of longitudinally extending converging grooves having the maximum distance between said grooves in alinement with the roller when the latter is in normal position, and axially movable spring contained plungers, carried by the roller and coöperating with said grooves to return the roller to normal position after actuation thereof.

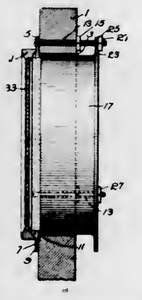
1,338,764. [WITHDRAWN.]

1,338,765. PUMP-PISTON. CHARLES D. BRANDT, New York, N. Y., assignor of one-half to Eugene J. Schweizer, Ridgewood, N. Y. Filed Sept. 23, 1919. Serial No. 325,606. 4 Claims. (Cl. 103—63.)



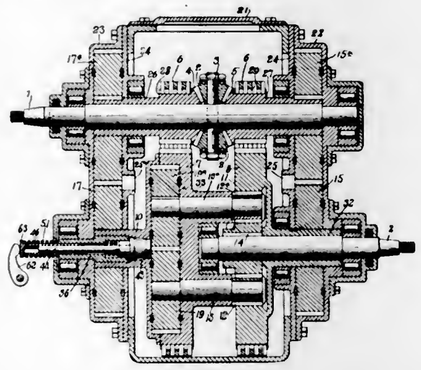
4. A pump piston comprising a piston rod provided with transverse grooves arranged in pairs spaced from each other lengthwise of said rod, a slotted disk fitted into one pair of grooves by a movement transverse to the axis of the rod, a cap on said rod fitted over said disk and maintaining it against transverse movement relatively to the rod, a plunger on said rod in surface engagement with said cap, a washer on said rod located within said plunger and a second slotted disk fitted into the other pair of grooves by a movement transverse to the axis of the rod and engaging said washer, whereby said cap, plunger and washer are clamped between said disks.

1,338,766. MOUNTING FOR INSTRUMENTS. EDGAR H. BRISTOL, Foxboro, Mass., assignor to the Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Dec. 16, 1916. Serial No. 137,472. 6 Claims. (Cl. 248—30.)



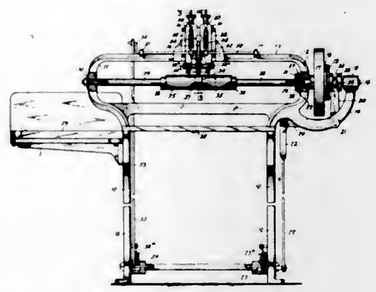
1. A device of the class described comprising, in combination, a support having an aperture, a frame about said aperture extending inwardly over the edge thereof, an instrument case entering the aperture from the other side of the support engaging the inwardly extending portion of said frame and presenting the registering or indicating portion of the instrument for inspection through said frame, bolts extending through the frame, the support and a part of said case, and separate nuts for clamping respectively the frame and the case to said support.

1,338,767. POWER-TRANSMISSION MECHANISM. CARL A. GRANZOW and HENRY M. GRANZOW, Dayton, Ohio. Filed Jan. 10, 1918. Serial No. 211,275. 23 Claims. (Cl. 74—34.)



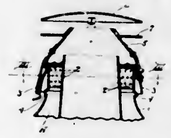
1. In a transmission mechanism, the combination, with a driving shaft and a driven shaft, and connections between said shafts including a plurality of sets of planetary gearing coöperating respectively with said shafts, of devices preventing or permitting movement of an element of said planetary gearing, said devices comprising a gear pump for liquid and means for varying the resistance of the liquid to said gear pump.

1,338,768. PROCESS OF AND APPARATUS FOR STRIPPING TOBACCO-LEAF. OSCAR HAMMERSTEIN, New York, N. Y.; Emma Swift Hammerstein, executrix of said Oscar Hammerstein, deceased, assignor to Oscar Hammerstein's Tobacco Stripping Machine Co., Inc., a Corporation of New York. Filed Mar. 19, 1919. Serial No. 283,501. Renewed Dec. 6, 1919. Serial No. 343,108. 9 Claims. (Cl. 131—57.)



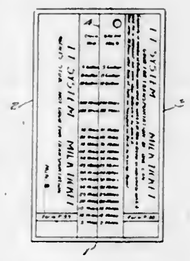
5. An apparatus for stripping tobacco leaf comprising a feed roll, means for actuating said roll, a pair of slides movable vertically independently of each other, cutting disks carried by each of said slides, said disks being located in spaced parallel relation to each other, springs connected with said slides whereby said cutting disks are maintained in operative relation to said roll, a rock shaft, coöperating means on said slides and rock-shaft whereby said slides are concurrently raised to move said cutting disks away from said roll and manually actuated means for operating said rock-shaft.

1,338,769. RAILWAY SIGNAL-LAMP. ALEXANDER H. HANDLAN, Jr., St. Louis, Mo. Filed June 9, 1919. Serial No. 302,910. 2 Claims. (Cl. 240—29.)



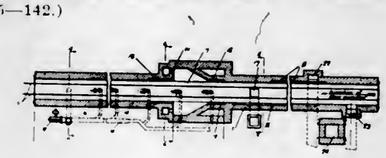
2. A signal lamp ventilator comprising a perforated shell, a shield surrounding said portion of said shell and a vent cap surmounted upon said shell, said shell being provided with a baffle in the form of a raised annular bead thereon adjacent to said shield beneath said perforated portion of said shell, said vent cap having a horizontally disposed baffle ring thereon at its open upper end and overhanging the lower portion of said vent cap.

1,338,770. SHIPPING-TICKET. CHARLES F. HANDSHY and WALTER P. POTTER, Springfield, Ill. Filed Oct. 14, 1918. Serial No. 257,953. 1 Claim. (Cl. 283—23.)



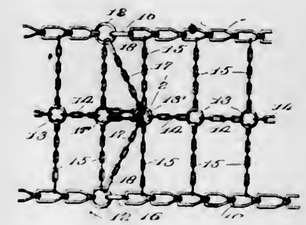
A traffic ticket having thereon appropriate information identifying the shipper and data relating to the transaction, said ticket comprising two parallel sections, said sections along their adjoining marginal portions each having arranged in a column thereon characters indicating the product shipped, the bulk quantity of contents and the distance the same is to be transported, the columns of characters on both sections being the same, with corresponding characters of the columns located opposite each other, whereby upon notching the ticket at the adjoining marginal portions of the sections in alinement with said characters, and separating the sections, there will be duplicate sections with the same information characters indicated thereon, in relation to the product, contents and distance, substantially as described.

1,338,771. METHOD AND APPARATUS FOR BURNING CLAY WARE. CARL B. HARROP, Columbus, Ohio. Filed June 13, 1919. Serial No. 303,875. 16 Claims. (Cl. 25—142.)



1. The method of burning ware which comprises passing it through a tunnel kiln having staggered clearance spaces formed in the walls of the kiln which gradually increase in capacity toward the bottom of the setting of the ware, and so building the setting of ware in its upper portion either alone or in conjunction with stop-block units that the gases will seek the lower parts of such clearance spaces as being the paths of least resistance, and will pass through the setting in so seeking.

1,338,772. AUTOMOBILE-TIRE CHAIN. MORRIS C. HART, Moville, Iowa. Filed Oct. 16, 1918. Serial No. 258,340. 1 Claim. (Cl. 152—14.)



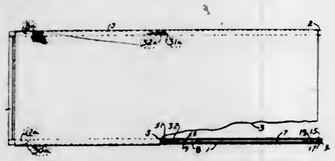
An anti-skid structure including a pair of parallel side chains each having a ring at one end and a hook at the other end, a mid-chain disposed longitudinally and centrally between said parallel chains and having two rings, transverse chains connecting the mid and side chains, and chains having their intermediate portions engaged through one of the central rings and each having an end permanently secured to the other ring and its other end detachably secured to one of the first-named rings.

1,338,773. COMBINATION SPEAR AND CUTTER. JAMES F. HILL, Salem, Ohio. Filed Sept. 22, 1919. Serial No. 325,603. 5 Claims. (Cl. 81—195.)



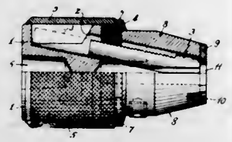
2. In a tool of the class described, a body having gripping means; a cutter support journaled on the body below the gripping means; a cutter carrier movable on the support; spring-actuated cutter advancing means movable longitudinally of the support; a stem journaled in the body and in said means and having limited longitudinal movement therein; and interengaging elements on the stem and on the support for rotating the support when the stem is moved longitudinally.

1,338,774. STRETCHER. MORRIS V. HUBBARD, San Jose, Calif. Filed Aug. 26, 1919. Serial No. 320,030. 6 Claims. (Cl. 5—70.)



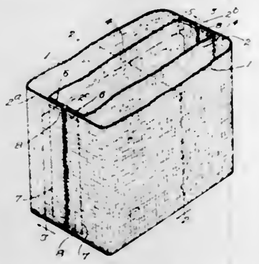
1. In a collapsible stretcher, a pair of side members having housings formed in each end thereof, a pair of end members, each end member being jointed near the ends thereof whereby to engage housings in both side members and insertible in its entirety in one of said housings, means for locking each end member in position when engaging housings in both side members, and means for locking each end member in position when inserted entirely in one housing.

1,338,775. CHUCK. HENRY S. HUBBELL, Ashburnham, Mass. Filed Mar. 27, 1919. Serial No. 285,574. 2 Claims. (Cl. 279—62.)



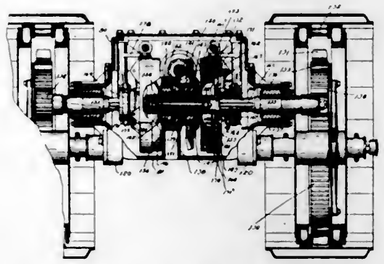
1. A drill chuck comprising a body having a plurality of jaw recesses converging inwardly to the forward end of said body, jaws in said recesses movable lengthwise thereof and provided with threads and a nut rotatable on said body and held against axial movement relatively thereto, said nut being threaded to co-act with the threads on said jaws and to cause the latter to move forward and backward in said jaw recesses, the forward end face of the body and the forward ends of the recesses extending to a point approximately corresponding to the plane defined by the forward faces of the jaws when in their outermost position whereby no part of said jaws projects beyond said jaw recesses in any adjustment of the chuck.

1,338,776. RECEPTACLE OR POCKET AND METHOD OF MAKING SAME. VICTOR H. JENNINGS, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 15, 1917. Serial No. 196,586. 17 Claims. (Cl. 224—23.)



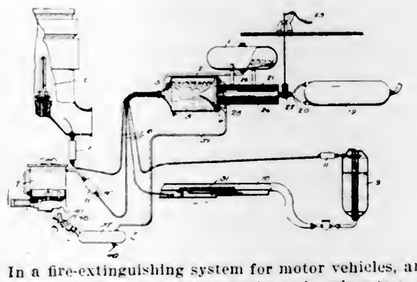
17. A receptacle or pocket of woven material having seamless end-walls and a pair of partition-webs with a receiving compartment between them, said partition-webs integral at one end thereof with one of said end-walls, and secured to the other end-wall by applied fastenings.

1,338,777. TRANSMISSION. FRED V. JOHNSON, Berkeley, Calif. Filed Jan. 30, 1919. Serial No. 274,154. 10 Claims. (Cl. 180—9.)



1. A transmission of the character described comprising a casing, a speed-change mechanism therein comprising a power shaft, an alining driving shaft, a parallel counter-shaft, and an end on said counter-shaft extending through said casing for the attachment of auxiliary driving devices, a continuously meshing gear connection between said power shaft and said counter-shaft, gear means for connecting said drive shaft with either said power shaft or said counter-shaft, pinion shafts at right angles to said drive shaft, a rotating structure centrally disposed with respect to said pinion shafts, clutch means for engaging said pinion shafts with said structure, a toothed bevel gear carried by said structure, and a co-meshing toothed bevel pinion carried by said drive shaft.

1,338,778. FIRE-EXTINGUISHING APPARATUS. CLIFFORD CLARKE JONES, Washington, D. C. Filed Aug. 7, 1919. Serial No. 315,866. 5 Claims. (Cl. 169—2.)



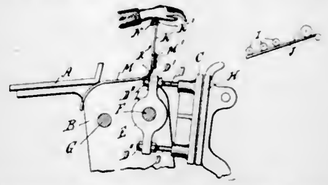
1. In a fire-extinguishing system for motor vehicles, and the like, provided with gasolene tanks and carbureters, in combination, a receptacle adapted to receive the exhaust gases, a receptacle for containing a fire-extinguishing fluid and an ejecting mechanism connected with said receptacles, means for conveying said fluid to points adjacent the gasolene tank and carbureter from said ejecting means, and manually controlled means for placing said operating means in operation.

1,338,779. METHOD OF FORGING. WILLIAM KLOCKE, New York, N. Y., assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,654. 7 Claims. (Cl. 29—148.)



1. The improved method of forging which consists in partly upsetting a billet to form a thickened portion thereon, then annularly identing such thickened portion to form a conical flange and finally flattening such conical flange.

1,338,780. HAND-GUARD FOR PRINTING PRESSES. SAMUEL KUPPER, New York, N. Y. Filed Feb. 28, 1919. Serial No. 279,799. 5 Claims. (Cl. 74—105.)



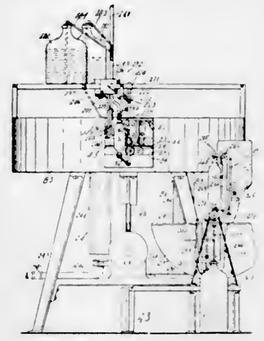
1. In a printing press having a stationary feed board, a bed, and a platen movable toward and from said bed, a hand guard hinged to the platen, and having a tongue adapted to engage said feed board during the printing movement of the platen to swing the guard across the position of the operator's hand.

1,338,781. TELEPHONE-RECEIVER HOLDER. JENNIE LEVY, Philadelphia, Pa. Filed Mar. 23, 1920. Serial No. 368,016. 2 Claims. (Cl. 248—41.)



1. A telephone receiver holder, comprising a base, a tubular upright on said base, a post vertically adjustable in said upright, a plate carried by said post having its sides upwardly and laterally deflected to form guides, and a holder consisting of a strip of flexible sheet material engaging said guides and having its free ends upwardly deflected and recessed to receive the telephone receiver and resiliently engage it, one end of said holder being lower than the other whereby the telephone receiver is supported in an inclined position.

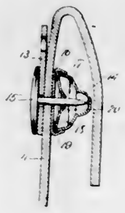
1,338,782. COATING APPARATUS AND METHOD OF COATING. ERICK P. LINDAHL, Pleasant Ridge, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed June 4, 1917. Serial No. 172,653. 55 Claims. (Cl. 91—12.2.)



1. The method of coating the inner surface of the wall of a substantially closed space in a vessel which consists in rarefying the air in said space, introducing a coating material in said space, and subjecting the vessel to rotative movements while holding said vessel at an inclination to its axis of rotation.

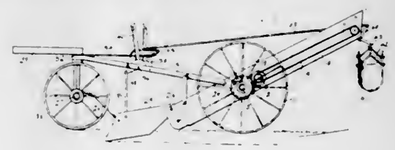
15. In a coating machine, the combination of a carrier, vessel-supports mounted on said carrier, means for rotating said vessel-supports, and vessel-holding means on said supports holding each of said vessels at an inclination to the axis of rotation of its support.

1,338,783. GARMENT-HANGER. ABRAHAM J. LOBAR, New York, N. Y., assignor to Joseph E. Sloe, New York, N. Y. Filed Oct. 7, 1919. Serial No. 328,968. 10 Claims. (Cl. 2—53.)



1. A garment hanger comprising, two base plates, a chain connecting said plates, sharp pins revolubly connected with said plates and adapted to be pushed by hand through the fabric of a garment and a housing for the point of each pin consisting of a bottom disk, a cup member and a locking plate secured between said disk and said cup member and having jaws for gripping said pin when the pin is pushed through said disk and locking plate.

1,338,784. DITCH-EXCAVATING MACHINE. KEEN J. MCDERMOTT, Cedar, Colo. Filed Sept. 11, 1918, Serial No. 253,589. Renewed Sept. 29, 1919. Serial No. 327,156. 2 Claims. (Cl. 37—25.)

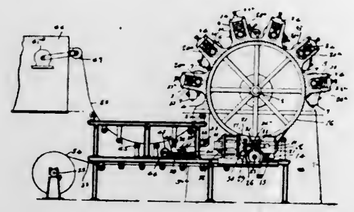


1. In a ditching machine, the combinations with a trough-shaped body having supporting wheels, of a tongue spaced in advance of the body and provided with a depending vertical part, a forward axle provided with supporting wheels mounted in a bearing on the vertical part, a frame having its rear end rigidly fixed to the body and its forward end provided with bearing in which the vertical part is swivelly mounted, an excavating shovel pivotally mounted upon the forward end of the body between the sides thereof and extending downwardly and forwardly, a bail member connected to the sides of the shovel and having a loop end movable vertically on the vertical part, means carried by the frame and connected to the shovel for raising and lowering the same, and a conveyer in the body provided with operating connections with the first supporting wheels.

1,338,785. MACHINE FOR PRINTING CARPETS, FLOOR-RUGS, &c. PATRICK H. MCGIEHAN, New York, N. Y. Filed Oct. 13, 1917. Serial No. 196,405. Renewed Oct. 22, 1919. Serial No. 332,547. 18 Claims. (Cl. 101—178.)

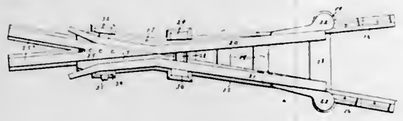
1. A machine for printing carpet, rugs and the like in large sizes with a single operation including a main cylinder or platen, a plurality of printing rollers located at the upper portion of the main cylinder or platen and

adapted to be prevented by the same from springing out of proper alinement, rotary means located beneath and



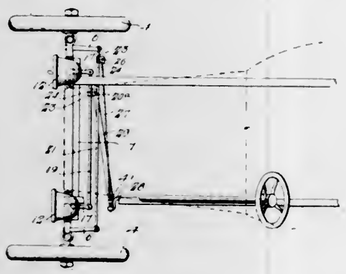
supporting and actuating the main cylinder and the printing rollers, and means for positively rotating the said means.

1,338,786. RAILWAY-FROG. BENJAMIN J. MORGAN, Des Moines, Iowa. Filed Dec. 29, 1917, Serial No. 209,464. Renewed Sept. 6, 1919. Serial No. 322,234. 5 Claims. (Cl. 246—276.)



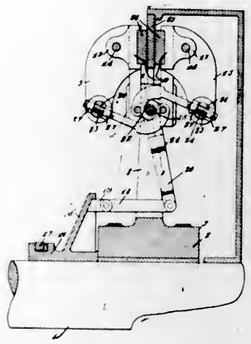
1. In a railway frog, a bed plate formed with laterally spaced seats adapted to support wing rails, said bed plate being formed with a base of skeleton construction comprising spaced cross pieces connecting said spaced seats.

1,338,787. DIRIGIBLE HEADLIGHT. HAROLD NELSON and JACOB WEDWICK, Clifford, N. D. Filed July 15, 1919. Serial No. 310,939. 1 Claim. (Cl. 240—62.)



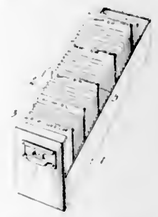
In a dirigible headlight of the class described, the combination of a lamp supporting and turning means, a bar connected to said means, said bar having a thickened portion, a shallow pocket formed within one end of said bar adjacent said thickened portion, said bar having a socket formed in said thickened portion at the inner end of said body, said pocket having converging side walls, a ball fitting within said socket, a stem projecting from said ball, a plate having channels formed in its side edges, said plate fitting within said pocket whereby said side walls will fit within said channels, for holding said plate from swinging outwardly, said plate having a notch in its inner end, so as to fit snugly upon said ball, a set screw carried by said plate, and engaging said bar, for holding said plate against accidental movement and means engaging said stem for moving the stem in a desired direction, whereby said bar may be moved for actuating said first mentioned means.

1,338,788. CLUTCH. CARL VICTOR NORDBERG, Butte, Mont. Filed June 7, 1919. Serial No. 302,452. 4 Claims. (Cl. 192—7.)



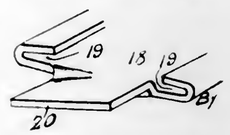
3. In a clutch mechanism, a rotary shaft, a collar fixed to the shaft, radially disposed arms formed with the collar and having eyes formed at the outer ends thereof, circular gripping members, ears carried thereby, bolts for passing through the ears and eyes, the ears being slidable upon the bolts, a slidable collar mounted on the shaft, a plurality of links carried thereby, a plurality of links each having one end pivotally connected with each of the first-mentioned links, the outer end of the last mentioned links being forked, a toggle connection mounted between each of the forked links, a pair of toggle levers for each of the forked links, the inner ends of the toggle links being laterally curved and pivotally connected with the ends of the toggle connection, the opposite end of the toggle connection being secured to the gripping members, and a member to be driven disposed between the gripping members and adapted to be driven by the same.

1,338,789. CARD-INDEX. JAMES H. RAND, North Tonawanda, N. Y. Filed June 23, 1917. Serial No. 176,599. 5 Claims. (Cl. 129—16.5.)



1. In an index or filing system, the combination of a series of assorted filing units, and means for raising one or more of said units above the others, whereby the lifted units serve as index or class guides.

1,338,790. CARD-HOLDER FOR RECORD SYSTEMS AND THE LIKE. EUGÈNE LAVERGNE DIT RENAUD, Montreal, Quebec, Canada. Filed Apr. 22, 1918. Serial No. 230,143. 1 Claim. (Cl. 40—64.)



In a device of the class described, a card holder comprising a body portion having its long edges overturned

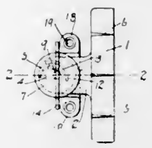
to form card receiving grooves, and end tabs for said body projecting beyond the ends of the overturned edge portion, said tabs being arranged in a plane inclined to the plane of the body.

1,338,791. VACUUM-CLEANER HANDLE. DANIEL BENSON REPLOGLE, Berkeley, Calif. Continuation in part of application Serial No. 801,402, filed Nov. 17, 1913. This application filed June 23, 1917. Serial No. 176,644. 5 Claims. (Cl. 15—60.)



1. A vacuum cleaner comprising a suction-producing means, and a handle connected with the said means for moving the vacuum cleaner back and forth over a floor or other surface, said handle comprising extensibly connected parts forming a suction conduit.

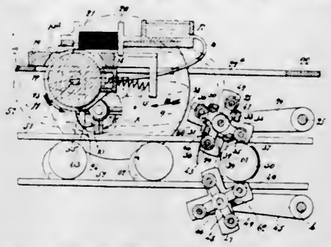
1,338,792. COMBINED ANTIRATTLER AND WINDOW-LOCKING DEVICE. GEORGE L. ROUSE, Cincinnati, Ohio. Filed Oct. 4, 1917, Serial No. 194,763. Renewed Jan. 14, 1920. Serial No. 351,493. 1 Claim. (Cl. 292—342.)



A combined anti-rattler and window lock, comprising a wedge having a straight forward edge and provided upon one side thereof with latterly extending lugs; an extension carried by the wedge and provided with an enlarged opening and an eccentric cam-lug disposed upon one side thereof; an attaching plate receiving the extension upon one side thereof and having a U-shaped flange to surround the extension and a concentric opening; means to secure the attaching plate to the window; a head provided at its periphery with an annular flange extending toward the extension; a winged element carried by the outer side of the head and having a stud projecting through the enlarged opening and the concentric opening; and means carried by the head to provide a cam passage for the reception of the cam-lug.

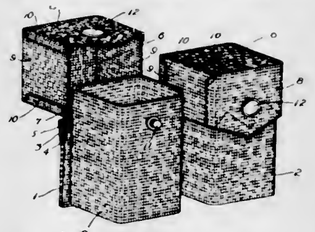
1,338,793. LABELING-MACHINE. CHRISTIAN MICHAEL CHRISTIANSEN SCHOU, Copenhagen, Denmark. Filed Feb. 8, 1916. Serial No. 76,891. 7 Claims. (Cl. 216—54.)

1. An improved labeling machine comprising in combination a label holder with an open bottom, means sliding relatively to the holder and supporting the labels and provided with an opening, a pasting roller periodically cooperating through said opening with said holder to engage, paste and withdraw the lowest label, means for reciprocating the roller, a combined rotating and label gripping device to which the roller carries the label, a bottle carrying track, means whereby the label is brought into the bottle



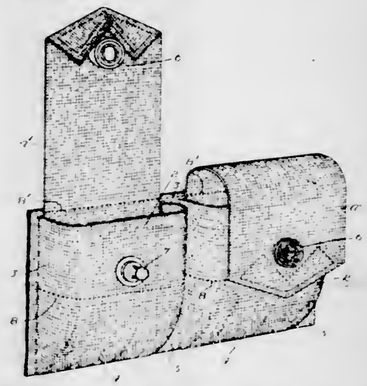
track to meet a bottle, means for moving the bottle, means for releasing the label, and yielding labeling rollers in the path of the bottle, whereby the released label is applied to the moving bottle.

1,338,794. WOVEN CARRIER. GEORGE W. SPALDING, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1917. Serial No. 160,986. 2 Claims. (Cl. 224—23.)



1. A woven carrier comprising a body-web or band, a pocket fixedly attached thereto rising at its top above the top edge of the said body-web or band, and a box-cover or hood for said pocket flexibly attached to the body-web or band, and which completely encircles or surrounds the upstanding top-portion of the pocket without slits or openings around such portion.

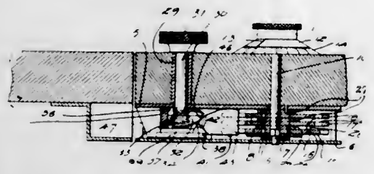
1,338,795. WOVEN POCKETED CARRIER. GEORGE W. SPALDING, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1917. Serial No. 186,888. 2 Claims. (Cl. 224—23.)



1. The combination with a carrier-pocket, of a reinforcement-lining comprising a strip bent into U-shape

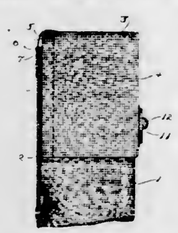
so as to line the back and front walls and bottom of said pocket, and also having one upright portion thereof furnished with oppositely-projecting lateral wings which line the sides of the pocket, are folded around the opposite upright portion, and are secured in place between the latter and the corresponding wall of the pocket, said reinforcement-lining having the top margin of the said upright portion and its wings doubled back upon itself to produce a smooth and finished turned top edge.

1,338,796. COMBINATION-LOCK. FRED C. STAVER, Avis, Pa. Filed Sept. 24, 1919. Serial No. 326,067. 10 Claims. (Cl. 70—53.)



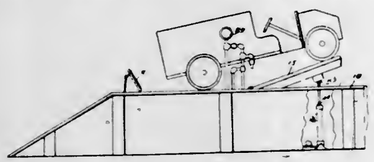
1. A lock comprising a series of combination disks, each having a recess, two of said disks having a series of openings, a pin carried by each of the last mentioned disks, two of said disks having semi-circular slots adapted to receive the pin of the adjacent disk, means for rotating said first mentioned disk, a bolt, and a manually operated means arranged to move the bolt into the registering recesses of the disks.

1,338,797. WOVEN CARRIER. CECELIA I. SULLIVAN, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 9, 1917. Serial No. 179,348. 4 Claims. (Cl. 224—23.)



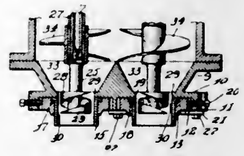
1. A pocketed carrier having a boxed pocket-cover or flap which is connected flexibly at the back thereof to the carrier, and which comprises a top formed of one piece of woven material that is doubled back upon itself so as to produce a double thickness for weather protection, and a depending body or flange formed of a second piece of woven material which is fastened by its upper margin to the side margins and front fold of the double top.

1,338,798. COMBINATION TRUCK AND WAGON DUMP. FRED W. SWANSON, Des Moines, Iowa. Filed Oct. 28, 1919. Serial No. 334,056. 1 Claim. (Cl. 214—49.)



A combination truck and wagon dump comprising a supporting frame, including a floor, a relatively long truck platform pivoted at one end within the outline of said floor, a relatively short platform pivoted at one end in said floor within the outline of said first platform, a compressed air cylinder pivotally supported below each platform for swinging movement in one plane, having a piston and a piston rod, a pivot joint for connecting the respective piston rods with the respective platforms, a compressed air tank, a pipe leading therefrom, a second pipe leading from said first pipe to one of said cylinders, a controlling valve therein, a third pipe leading from said second pipe between said valve and the first cylinder to the other of said cylinders, a three-way valve at the junction between said second and third pipes, adapted in one position to close the passage through the second pipe and the passage into the third pipe, and in another position to permit air to pass through the second pipe and when in another position to permit air to pass from the second pipe into the third pipe, a discharge pipe communicating with the second pipe between said first two valves, and a controlling valve in the discharge pipe.

1,338,799. DIE AND SPIRAL. JOHN WALTER THOMAS, Daisy, Tenn. Filed Nov. 2, 1918. Serial No. 260,808. 4 Claims. (Cl. 25—14.)
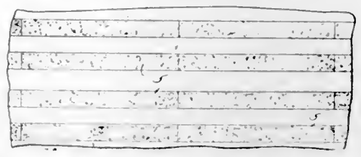


2. A device of the character described comprising a die frame having an aperture, a die plate adjustably mounted thereon, a cylinder supported by the die plate in proper relation with the aperture, a spiral head rotatably mounted in the cylinder, the same when rotating through clay passing it through the die under pressure forms a hollow cylinder with an integral spiral wall, substantially as specified.

1,338,800. SPACING DEVICE. GEORGE H. TOD and EDWARD H. BECK, Toronto, Ontario, Canada. Filed Aug. 6, 1918. Serial No. 248,660. 3 Claims. (Cl. 33—192.)



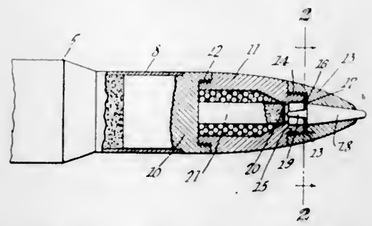
1. A spacing device comprising, a bar having a guide way formed on the top thereof and having longitudinal slots arranged centrally thereof, a plurality of guide brackets slidably arranged in said guide way, bolts secured to said brackets and extending through the slots, a lazy tong structure connected to said bolts beneath said guide, and means for expanding and contracting said lazy tong structure to move said guide brackets in a uniform spacing.

1,338,801. ROADWAY. LUTHER P. TURNER and JOHN R. BURRILL, Spokane, Wash. Filed Oct. 13, 1919. Serial No. 330,216. 2 Claims. (Cl. 94—5.)



1. In a roadway construction, spaced parallel longitudinal blocks, the adjacent ends of the blocks being supported in spaced relation with each other, a bolt disposed within the space, plates supported on the bolt, and adapted to clamp opposite faces of adjacent blocks, and a filling material between the adjacent ends of the blocks.

1,338,802. SHELL FOR MACHINE-GUNS. MATTHEW A. WALKER, South Connellsville, Pa. Filed Dec. 3, 1919. Serial No. 342,075. 1 Claim. (Cl. 102—39.)



In a projectile, a body portion, a hollow body removably secured to the body portion and having a threaded extension providing a shoulder, said hollow body adapted to support high explosive material, and a firing cap, a frusto-conical member having an opening including inclined walls and having a threaded portion, a shoulder forming a part of the frusto-conical member, said threaded portion adapted to be positioned on the threaded extension, an annulus clamped between the shoulders, a tapering firing pin supported within the opening in the frusto-conical member and having a shoulder engaging the annulus, and said firing pin adapted to be wedged within the opening of the frusto-conical member, when the latter is positioned on the hollow body portion.

1,338,803. PROCESS FOR MAKING NON-INTOXICATING BEVERAGES. WALTER WILHELMY, Sr., Pueblo, Colo. Filed May 17, 1919. Serial No. 297,893. 6 Claims. (Cl. 195—1.)

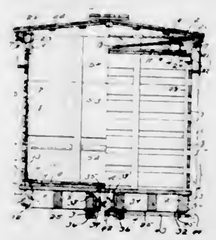
6. The process of making a non-intoxicating beverage, which consists in mixing a mash from about 500 pounds of ground light malt, about 300 pounds of ground caramel malt and about 18 barrels of water at 77° F.; boiling for a short period, settling and drawing off the wort and mixing the same with about 85 barrels of boiling water, boiling, adding predetermined quantities of hops at intervals during the boiling and also adding sufficient water to make a volume of about 100 barrels after the completion of the boiling operation, draining and cooling to about 68° F., adding yeast in the proportion of about ¼ pound for each barrel of beer, and allowing to ferment for about 36 hours; cooling the brew, and allowing to stand for a specified period; adding a body giving substance and finally carbonating.

1,338,804. ANTISKID-CHAIN TOOL. DONALD C. WOODWORTH, Auburn, Me. Filed June 28, 1919. Serial No. 307,446. 2 Claims. (Cl. 81—15.)



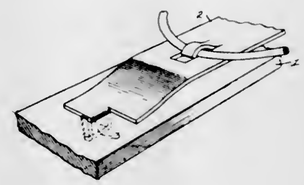
1. In a device of the character described, two jaw members pivotally united and provided with handle members, one provided with a hook end engaging tapering lip and the other with a link engaging lug, said lip and lug being positioned on opposite sides of the pivot relative to the length of the handles.

1,338,805. CONVERTIBLE STOCK AND FREIGHT CAR. EVERETT WYATT, Fort Worth, Tex., assignor to United States Convertible Car Co., Fort Worth, Tex. Filed Sept. 20, 1918. Serial No. 254,901. 11 Claims. (Cl. 105—375.)



7. In a stock car provided with a permanent floor and permanent end and side walls, a temporary floor, temporary side walls in foldable section hingedly connected to said temporary bottom, means for raising and lowering said temporary bottom, said temporary bottom operating to fold and unfold said side temporary walls and means for holding said temporary side walls in contact with said permanent side walls when the car is used as a freight car consisting of brackets attached to the temporary side walls, angle bars attached to said permanent side walls, and gravity latches vertically movable in said brackets and adapted to engage said angle bars and provided with horizontal flanges at their upper ends projecting through said temporary side walls, said walls having slots for the movement of said flanges.

1,338,806. UPHOLSTERY-SPRING CONSTRUCTION. LEONARD A. YOUNG, Detroit, Mich. Filed Feb. 10, 1919. Serial No. 276,226. 1 Claim. (Cl. 155—181.)

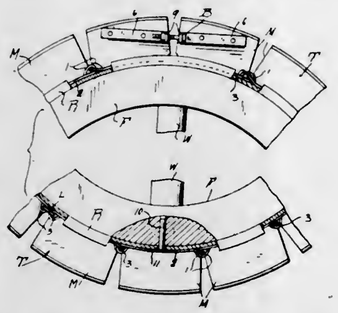


In upholstery spring construction, a resilient supporting strip of penetrable material, upright body springs the bases of which rest on the strip and a band of flexible metal having downturned spurs that are inserted in the supporting strip, the band overlying the base coils of the springs and being bent to embrace them, and the downturned spurs being formed by slitting the edges of the strip near the ends thereof and inbending the portion of the strip between each slit and the adjacent end.

1,338,807. FOLDING EMERGENCY-TIRE. EUGENE A. BEAULIEU, Graceville, Minn. Filed June 18, 1919. Serial No. 305,068. 1 Claim. (Cl. 152—23.)

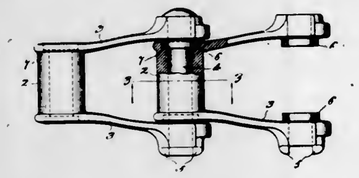
As a new article of manufacture, an emergency tire structure comprising a plurality of blocks, plates secured to the inner faces of the blocks and extending beyond the opposite ends thereof, the inner corners of each of the blocks being cut away, one end portion of each of the plates being inclined inwardly with respect to the adjacent block and provided with a slot, the opposite end portion of said plate being provided with a knuckle disposed inwardly of the back, the knuckle of one plate being loosely disposed through the slot in the inclined end por-

tion of the plate of an adjacent block, the inclined ends of the plates and the knuckles seating in the cut-away



portions of the blocks, the arrangement of the inclined ends and knuckles of the plates offering no obstruction to the seating of the tire in applied position.

1,338,808. SPROCKET - CHAIN. LEO BETHKE, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 26, 1919. Serial No. 279,293. 3 Claims. (Cl. 74—32.)



1. An integral cast metal link for a sprocket chain comprising a perforated end bar and side bars, the side bars being perforated near their free ends and having on their inner faces tubular projections concentric with the perforations therein, and the end bar having formed in its ends concentric with the perforation therein recesses adapted to receive and fit the projections of another link that may be united thereto.

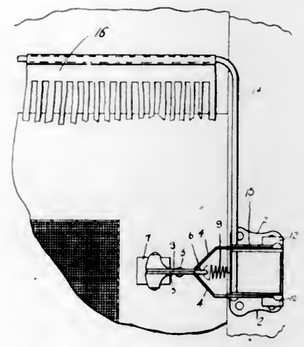
1,338,809. CARRIAGE-THREADING DEVICE. DANIEL BLYDENBURGH, South Attleboro, Mass. Filed Jan. 2, 1919. Serial No. 269,181. 7 Claims. (Cl. 66—6.)



1. A device of the class described comprising a fixed hook, a pivotally mounted table, and means on said table for positioning the carriage thereon, substantially as described.

1,338,810. FLY-CHASER. ARTHUR BRUNELLE, Madoc, Mont., assignor of one-half to Henry L. Gordon, Flaxville, Mont. Filed May 28, 1919. Serial No. 300,352. 6 Claims. (Cl. 230—7.)

1. A device of the class described, comprising a bracket adapted for attachment to a door frame having a door hinged therein, a pair of pivotally mountd arms carried by said bracket and adapted to engage the door whereby the arms are swung on their pivots when the door is opened, said arms having a vertical pivot and being horizontally disposed, a fringe-supporting member carried by the arms and adapted to extend across the top of the door-

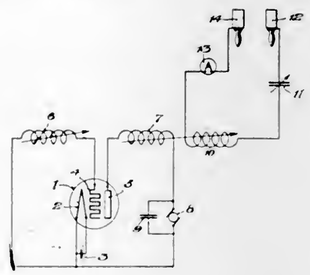


opening, and a spring between the bracket and arms and adapted to forcibly close the door after the same has been opened.

1,338,811. BRAKE - LINING DRESSING. GEORGE E. CALHOUN, Amsterdam, N. Y. Filed Nov. 24, 1919. Serial No. 340,433. 2 Claims. (Cl. 134—11.)

2. A composition consisting of the following ingredients in approximately the proportions named,—castor oil two ounces, neat's-foot oil four ounces, crude oil four ounces, fuller's earth five ounces.

1,338,812. ELECTROTHERAPEUTIC APPARATUS. WENDELL L. CARLSON and EARL C. HANSON, Washington, D. C. Filed July 12, 1919. Serial No. 310,352. 3 Claims. (Cl. 174—177.)

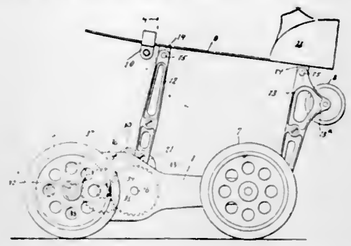


3. In electrotherapeutics, a vacuum tube oscillator adapted to produce sustained oscillations, and means for tuning said oscillations, said vacuum tube oscillator including a circuit containing inductances, in combination with a circuit containing means for applying said current to the body, substantially as and for the purpose described.

1,338,813. MECHANICAL ROLLER-SKATE. ANTHONY CHIARELLI, New York, N. Y. Filed Dec. 28, 1918. Serial No. 268,672. 12 Claims. (Cl. 46—51.)

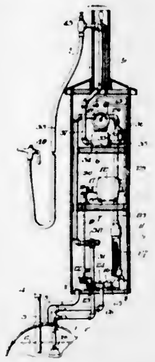
1. A mechanically operated skate comprising a frame, running wheels on which said frame is mounted an operating pedal, oscillatory links on which said pedal is mounted an operative connection between said oscillatory links and one of said running wheels, said links being adapted to swing downwardly and rearwardly from a substantially upright position to operate the skate, and springs acting to automatically return said links to their starting position.

10. Steering mechanism for mechanical roller skates, comprising a segmental rack operatively connected to one



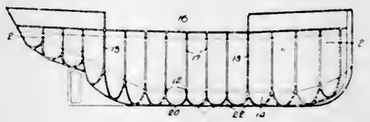
of the wheel shafts, means operable by the user for turning said rack for steering purposes, and removable means for rigidly holding said rack in a central position.

1,338,814. ELECTRIC SYSTEM FOR STORAGE AND MEASUREMENT OF GASOLENE. GEORGE F. CLAMER, Collegeville, Pa. Filed July 19, 1918. Serial No. 245,636. 18 Claims. (Cl. 221—80.)



1. The method of pumping and measuring liquids which consists of passing the liquid through a main circuit, returning it to the tank free from the intake and passing part of the liquid through a branch circuit diverging from the main circuit below the top level of the latter and containing a meter for the purpose of measuring liquid.

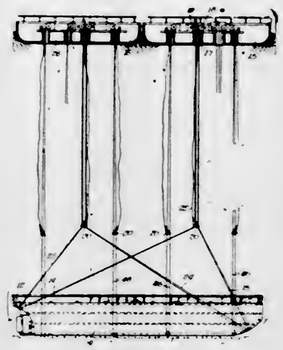
1,338,815. CONCRETE VESSEL. LIONEL COKE-HILL, Montreal, Quebec, Canada. Filed Sept. 19, 1918. Serial No. 254,882. 15 Claims. (Cl. 114—65.)



1. A concrete vessel having the hull thereof corrugated, the corrugations extending transversely.

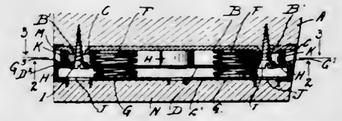
1,338,816. SALVAGING APPARATUS. HENRY D. DEAM, Benton Harbor, Mich. Filed May 6, 1918. Serial No. 232,677. 3 Claims. (Cl. 114—51.)

1. Boat salvaging means comprising a buoyant member, pulling means supported by said member, a cable passing from said pulling means downwardly and around a boat to be raised and back to said buoyant member, and means slidably encircling the two cable strands above



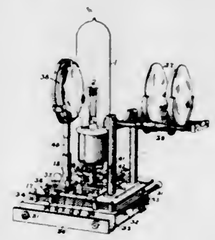
said boat, said means comprising a ring having teeth on one side, said teeth arranged to prevent slipping of the ring on the cable.

1,338,817. CUSHION-HEEL FOR SHOES. PASQUALE A. DE LUCA, New York, N. Y. Filed Oct. 8, 1919. Serial No. 329,182. 7 Claims. (Cl. 36—38.)



1. A cushion for heels comprising a plate adapted to be attached to the heel of a shoe, a second plate spaced therefrom and firmly held in relative fixed position thereto and means for spacing said plates; a casing suspended from and carried by one of said plates and a cushion located between said first named plate and said casing for the purpose specified.

1,338,818. OPTICAL APPARATUS AND METHOD OF OPERATING THE SAME. ARTHUR R. DENNINGTON, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Continuation of application Serial No. 98,824, filed May 20, 1916. This application filed Oct. 23, 1919. Serial No. 332,757. 25 Claims. (Cl. 88—24.)

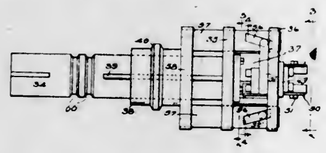


1. In an optical system, the combination of a based electric incandescent lamp of the concentrated-filament type, said lamp having had its base secured to the bulb with the usual manufacturing accuracy, and means for prefocusing the based lamp with reference to the system, said means and lamp being adapted for removal and reinsertion in the system without disturbing any optical adjustment previously made.

21. The method of preliminary adjusting an incandescent lamp with respect to an optical system, that consists in using two optical systems having their axes coin-

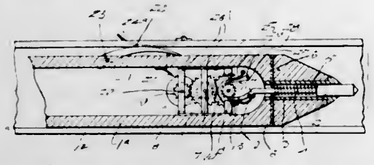
cident and certain elements duplicate, adjusting the lamp in one of these systems and using it in the other, this adjustment being accomplished by mechanism which is adjustable in one of the optical systems and adapted to be received in the other without further adjustment.

1,338,819. CUTTER-HEAD. DAVID J. DIXON, Tacoma, Washington. Filed June 4, 1917. Serial No. 174,620. 2 Claims. (Cl. 142—27.)



2. A hollow cutter head comprising a tubular shank having an integral disk formed on one end thereof, two integral segments projecting forwardly from said disk, said segments being disposed in diametrically opposite positions and each extending substantially one fourth of the way around the central opening in said disk, two L shaped guide members adjustably secured to said disk by slot and screw connections, said guide members having guide arms that project inwardly between the ends of said segments in diametrically opposite positions and are provided with concave ends arranged to engage and support the work, a circular plate integral with said segments and arranged in spaced apart parallel relation with respect to said disk and knives associated with said circular plate.

1,338,820. PICK TAKE-UP SHUTTLE. ARTHUR R. EANES, Jr., Draper, N. C. Filed Jan. 8, 1918. Serial No 210,915. 9 Claims. (Cl. 139—27.)



6. A pick take-up shuttle including a shuttle body, a reel adapted to receive the filling removed in unweaving, mechanism actuated by energy stored by the movements of the shuttle for rotating the reel, said mechanism including a train of gears connected with the reel, and a brake automatically operable to stop the rotation of the reel when the shuttle stops.

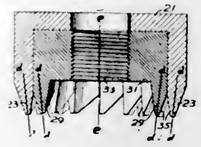
1,338,821. ROTARY TOOTHBRUSH. MAX EISNER and ALBERT M. FREEMAN, Sioux Falls, S. D. Filed Oct. 20, 1919. Serial No. 331,835. 5 Claims. (Cl. 15—37.)



4. In a rotary tooth brush, a support, a yielding tooth edge engaging member, brushes having free ends disposed adjacent to the respective ends of the tooth engaging member, and a single sleeve carrying said member and brushes whereby the sleeve and brushes will be positively and directly driven through said tooth engaging member.

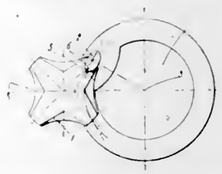
1,338,822. CUTTER. WILLIAM C. FARNUM, Winchendon, Mass., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts. Filed July 20, 1917. Serial No. 181,772. 10 Claims. (Cl. 29—103.)

1. A cutter comprising a rotary body and two series of teeth circumferentially disposed on said body, and having cutting edges for forming finished profiles of teeth on a blank, one of said series being located within the other,



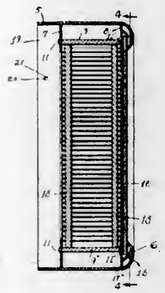
that the cutting edges of the two series of teeth may simultaneously form the finished opposed profiles of the tooth.

1,338,823. STAR-WHEEL TRANSMISSION. MAURICE FIGOUR, Paris, France, assignor to Etablissements Continsouza, Société Anonyme, Paris, France, a Corporation of France. Filed Jan. 6, 1919. Serial No. 269,838. 3 Claims. (Cl. 74—41.)



1. A star wheel transmission comprising a pin-carrying driving member and a channeled driven member, the pin engaging sides of the respective channels forming an acute angle with the longitudinal axis of the corresponding channel equal to one-half the difference between the angular movements of the driven and driving members during operative engagement of the latter.

1,338,824. DEFLECTOR. CHARLES FOWLER, Watseka, Ill. Filed Oct. 6, 1919. Serial No. 328,690. 3 Claims. (Cl. 240—48.4.)

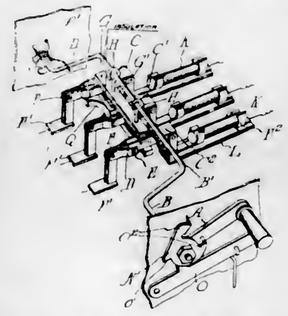


1. In combination with a lamp, a deflector including a frame, spaced ring members supported within the frame, spacing bars for supporting the rings in spaced relation, each of the ring members having cut-out portions, the cut-out portion of one ring member alining with the cut-out portion of the other ring, a securing block passing through the alining cut-out portions, means extending through the frame, securing blocks and spacing bars, for securing the spaced ring members in the frame, and deflector plates supported between the spaced ring members.

1,338,825. STARTING-SWITCH FOR MOTORS. HARRY J. L. FRANK and LEON H. FRANK, Detroit, Mich., assignors to Mutual Electric & Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 18, 1916, Serial No. 120,843. Renewed Mar. 24, 1920. Serial No. 368,317. 12 Claims. (Cl. 200—3.)

3. In a switch, the combination with separate blades, of a rock shaft for operating said blades, means for actuating

said rock shaft, a catch member provided with spaced projections in the path of movement of said rock shaft



actuating means, and a movable detent for engaging said catch member.

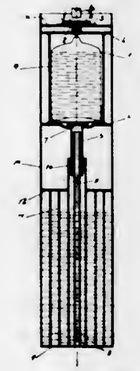
1,338,826. ZINC ALLOY. HANS GOLDSCHMIDT and KARL MÜLLER, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 19, 1917. Serial No. 163,263. 3 Claims. (Cl. 75—1.)

1. An alloy containing zinc, and from about one-quarter of one (.25) per cent. to about four (4) per cent. of manganese, and at least six and nine-tenths (6.9) per cent. of copper and aluminum together, the copper and aluminum being present in the ratio of about three parts of copper to about one part of aluminum.

1,338,827. METHOD OF MAKING CIGAR-WRAPPERS. WILLARD J. GOODFELLOW, Bentley Springs, Md. Filed May 23, 1919. Serial No. 299,126. 2 Claims. (Cl. 92—3.)

1. The hereindescribed method consisting of producing a tobacco extract from tobacco stems, converting the stems into a fibrous pulpy mass, forming the mass into a sheet, drying the sheet, and impregnating the sheet with the extract during the drying operation.

1,338,828. CARTRIDGE FOR CHEMICAL FIRE-EXTINGUISHERS. CLEMENS GRAAFF, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 26, 1915, Serial No. 30,669. Renewed Sept. 24, 1918. Serial No. 255,529. 5 Claims. (Cl. 169—32.)



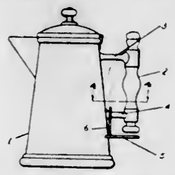
1. A cartridge for chemical fire extinguishers having a reaction chamber, means dividing the reaction chamber of said cartridge into a plurality of smaller chambers, cells or the like.

1,338,829. SAND-SCREEN FOR PUMPS. HENRY M. GREEN, Kansas City, Mo. Filed Sept. 15, 1919. Serial No. 323,970. 7 Claims. (Cl. 103—64.)



5. A sand screen construction for pumps, comprising a pipe adapted to be connected with the lower end of the pump tube and provided with a plurality of sets of lateral openings spaced at different heights along said pipe, a plurality of screen elements comprising a set of sleeves, one for each set of said openings, carried by said pipe in superposed relation and providing annular spaces closed at the top between said sleeves and pipe and surrounding said openings, and means for spacing said sleeve slightly apart for providing inlet passages to said spaces at the bottom of each sleeve, said sleeves being vertically adjustable in unison for varying their position with reference to said sets of openings.

1,338,830. COOKING UTENSIL. HENRY GROB, Detroit, Mich. Filed Feb. 11, 1920. Serial No. 357,914. 2 Claims. (Cl. 53—3.)



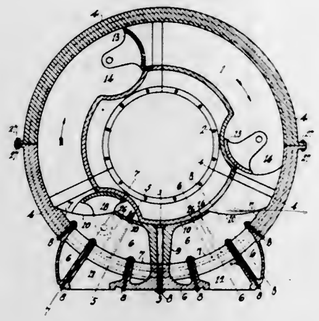
1. The combination with a cooking vessel, of a handle therefor disposed vertically at one side and secured to the vessel by arms, and a shield having a pair of upwardly projecting integral spring arms coacting to detachably engage the lower handle arm whereby the shield is supported horizontally below the handle with its inner edge resting against the side of the vessel, said inner edge being curved to correspond to the curvature of the vessel.

2. The combination with a cooking vessel, of a handle therefor disposed vertically at one side and secured to the vessel by arms, and a shield having a pair of upwardly projecting integral spring arms coacting to detachably engage the lower handle arm whereby the shield is supported horizontally below the handle with its inner edge resting against the side of the vessel.

1,338,831. PRODUCING COMPOUNDS OF RADIUM. HERMAN OSKAR HEDSTRÖM, Djursholm, Sweden. Filed Oct. 31, 1919. Serial No. 334,725. 4 Claims. (Cl. 23—13.)

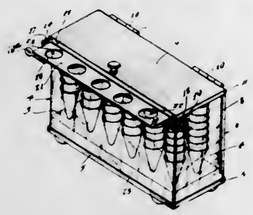
1. Method for obtaining radium compounds out of rocks, minerals or other materials, containing radium, consisting in extracting the materials by means of liquid sulfur dioxid, containing sulfur trioxid.

1,338,832. POWER TRANSMISSION. GEORGE C. JESSUP, Camden, N. J. Filed May 17, 1919. Serial No. 297,808. 3 Claims. (Cl. 121—66.)



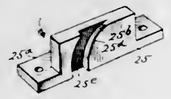
1. In a rotary engine, a circular tube-like element forming a motive fluid course and having a slot in the periphery thereof, a tubular piston arranged within the tube-like element and having slots therein arranged to aline with the slot in the tube-like element to permit the inlet and exhaust of motive fluid, and a series of valves within the tube-like element.

1,338,833. SANITARY ICE-CREAM-CONE HOLDER. SAMUEL A. KORNSWEET, Los Angeles, Calif. Filed June 23, 1919. Serial No. 306,231. 4 Claims. (Cl. 65—53.)



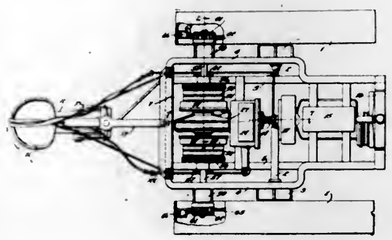
3. A dispensing and vending device comprising a receptacle provided with means for supporting columns of unfilled cones, and a serving plate having apertures to receive filled cones detachably mounted upon said receptacle.

1,338,834. CABLE-GUIDE FOR DROPHEAD-SEWING-MACHINE CABINETS. THEODOR KUNDTZ, Lakewood, Ohio, assignor to The Theodor Kundtz Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 9, 1918. Serial No. 253,215. 2 Claims. (Cl. 45—27.)
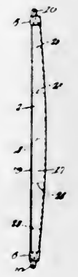


1. In a drop head sewing machine table of the class described, the combination of a table top having a hole through it, with a cable guide comprising a wood block having an upwardly extended body which passes through and fills the hole in said table top, and having an enlarged base portion which engages with and is fixed to the lower surface of said table top, said block having in one of its vertical edge a curved cable guide groove which extends from the top to the bottom of said body.

1,338,835. TRACTOR. JOHN L. LAKE and FRANCIS D. MCMAHON, Cleveland, Ohio. Filed Aug. 3, 1917. Serial No. 184,213. 8 Claims. (Cl. 180—17.)



1. A planetary gear set designed to transmit power from the driving mechanism to the traction element of a tractor, and including a pair of drums, one of said drums, through being held against free rotation, will cause the traction element to be driven forwardly, and the other of which through being similarly held, will cause the traction element to be driven rearwardly, a brake element for coöperation with each drum, a rock shaft, an actuating member carried by the shaft and arranged for operative connection with one of the brake elements when the shaft is rotated in one direction and with the other brake element when the shaft is rotated in the reverse direction, means tending to rock the shaft in one direction, an arm secured to the shaft, and a line secured to the arm for swinging it to rock the shaft against the action of the aforesaid means.

1,338,836. AIRPLANE OR ANALOGOUS STRUT MEMBER. MELVILLE W. MIX, Mishawaka, Ind. Filed Oct. 16, 1917. Serial No. 196,918. 5 Claims. (Cl. 244—31.)

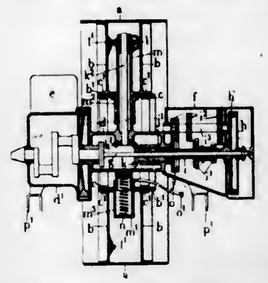


1. A composite article of manufacture, comprising a laminated stream-line body portion constituting a unit, separate longitudinal reinforcements independently secured to the body, internally secured end members therefor, and a metallic sheath or lining of stream-line shape adapted to coöperate with the other parts in forming a complete structural unit.

1,338,837. TRACTOR COMPRISING A DRIVING AND STEERING WHEEL. CHARLES MARIUS MOTTE, Paris, France. Filed May 25, 1918. Serial No. 236,634. 8 Claims. (Cl. 180—13.)

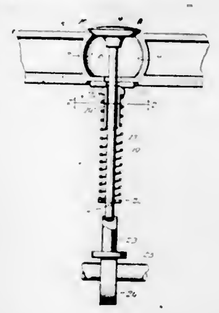
1. A tractor comprising a driving and steering wheel of large diameter, a hollow supporting axle on which the wheel is mounted, a motor fixed to the axle on one side

of the wheel, a casing fixed to the axle on the other side of the wheel, a clutching device and a change speed gear



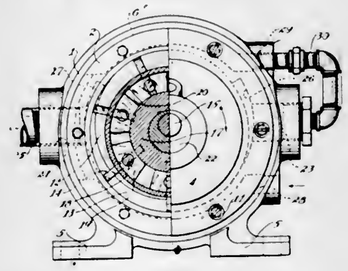
within the casing, and means for transmitting the motion from the motor to the wheel.

1,338,838. VALVE. HARRY F. NILES, Chicago, Ill., assignor of one-third to Eva A. Schlick, Cook county, Ill. Filed June 12, 1919. Serial No. 303,743. 2 Claims. (Cl. 251—162.)



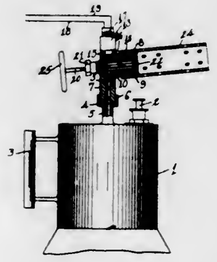
1. A valve structure having in combinative association, a puppet valve with a stem, and a head provided with a globe-like seating surface; a wall, having a port with a coöperating surface, whereupon to seat the valve; another wall spaced away from the port wall having an opening to permit some lateral movement of the valve stem and through which the valve stem passes and having a flat surrounding surface; a flat plate surrounding the valve stem and in contact with said flat wall, and a spring to close the valve and bearing on said plate to yieldingly hold it in contact with said surface.

1,338,839. FLUID-PUMP. GUSTAF OLSON, Chicago, Ill., assignor of one-half to Willard M. McEwen, Chicago, Ill. Filed Jan. 4, 1917. Serial No. 140,543. 2 Claims. (Cl. 230—30.)



1. In a device of the class described, the combination of a casing having an annular cooling chamber formed therein and extending almost entirely therearound, inlet and outlet ports connecting with the opposite ends of said cooling chamber, a rotor journaled in said casing so as to form a compression chamber, a plurality of radially movable vanes carried by said rotor, inlet and outlet ports formed in said casing and communicating with the opposite ends of said compression chamber, and means connecting the outlet port of said cooling chamber with the inlet port leading to said compression chamber.

1,338,840. LIQUID-FUEL TORCH. ADOLF J. PREINING, Detroit, Mich. Filed Feb. 2, 1917. Serial No. 146,301. 4 Claims. (Cl. 158—33.)



1. In a liquid fuel torch or burner, a fuel supply chamber, a fuel supply tube secured thereto and having a fuel passage therethrough, the fuel supply tube being provided with a hollow enlargement on one side thereof, a valve fitting in the said enlargement, an aperture in the end of said enlargement adapted to be closed or opened by said valve, an electric socket adjacent the said enlarged portion, an electric plug fitting the said electric socket and connected with a source of current supply, a burner tube in threaded relation with the said enlargement and a resistance coil embedded in a heating element adapted to fit within said enlargement and connected with the electric socket, the said heating element being apertured to form a chamber about the said valve stem, and means for forcing fuel through the said fuel passage.

1,338,841. PROCESS OF MAKING CARBONIZING MATERIAL. NOAH B. RADABAUGH, Cleveland, Ohio, assignor to The Phoenix Hardening Equipment Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 5, 1917. Serial No. 178,664. 4 Claims. (Cl. 148—23.)

1. The herein described process which consists in impregnating a carbonizing material in an energizing liquid solution containing sodium nitrate, soda ash and potassium chlorid.

1,338,842. ARMOR FOR VEHICLE-TIRES. VICTOR P. RATZBURG, Nashau, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Oct. 21, 1907. Serial No. 398,323. Renewed Nov. 12, 1917. Serial No. 201,660. 13 Claims. (Cl. 152—14.)



1. An anti-skidding device for vehicle tires comprising, in combination, annular side holding means to be disposed at opposite sides of the wheel; and individual rotatable tread members connected to the side holding means; the

whole adapted to be supported on the tire and to be retained thereon independently of positive attachment.

2. An anti-skidding device for vehicle tires, comprising in combination, annular side holding chains to be disposed at opposite sides of a wheel, individual rotatable tread members, and swivels connecting said individual rotatable tread members to the side holding chains, the whole adapted to be supported on the tire and to be retained thereon independent of positive attachment.

3. An anti-skidding device for vehicle tires comprising, in combination, annular side holding chains disposed at opposite sides of the wheel, and coil springs swiveled to the side chains, the whole supported on the tire, and retained thereon independently of positive attachment.

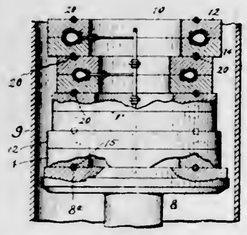
13. An anti-skidding device for vehicle wheels comprising a series of tread members extending transversely of the tire each constituted by a plurality of coil elements connected to retractively resist separation and yieldable to conform to a tire under use, holding means to be located at the sides of the wheel, and connections between said holding means and said tread members to permit limited longitudinal and radial movement of said members and to facilitate rotative movement thereof.

1,338,843. ARMOR FOR VEHICLE-TIRES. VICTOR P. RATZBURG, Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Mar. 7, 1908, Serial No. 419,665. Renewed Nov. 12, 1917. Serial No. 201,661. 10 Claims. (Cl. 152—14.)



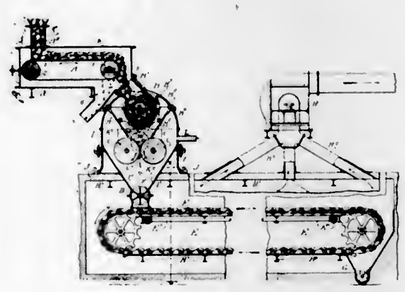
1. Tire armor comprising, in combination, a tread member arranged to extend across the tread surface of the tire; a shaft member on which said tread member is journaled to rotate when in use; and provision for positioning said elements in suitable relation to a tire and permitting the armor to move circumferentially about the tire whereby said tread member, by reason of its contact with the tread surface of the tire, will roll thereon and turn on said shaft member.

1,338,844. MEANS FOR STACKING TIRE-MOLDS. BENJAMIN H. ROSE, Lakewood, Ohio. Filed Mar. 24, 1919. Serial No. 284,801. 4 Claims. (Cl. 18—17.)



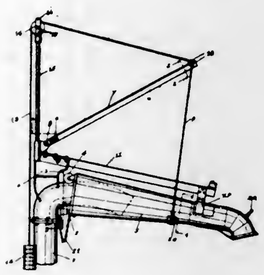
1. The combination of a heater press, and its ram head, with a plurality of tire molds supported upon said ram head and stacked one upon another, the engaging upper surface of the ram head and the upper and lower surfaces of the molds being formed with concentric annular grooves of the same diameter, and centering rings which lie in and are fitted to the annular recess formed by the annular grooves in said engaging surfaces.

1,338,845. WET-COAL MILL. JOSEPH M. SCHUTZ, Chicago, Ill., assignor to Schutz Hawley Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 28, 1918. Serial No. 214,133. 9 Claims. (Cl. 83—12.)



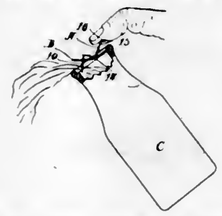
6. The method of rolling moist coal, which consists in feeding the moist coal as a continuous stream, between substantially smooth rolls that are separated by an opening as wide as the thickest particles in the finished product are to be, rotating said rolls at speeds which cause them to centrifugally clear themselves and to act as impact members upon the stock and discharge the whole bulk in a finished state.

1,338,846. STANDPIPE. HARRY E. THOMPSON, RAYMOND B. LINSLEY, and MILTON H. RIX, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 3, 1918. Serial No. 256,655. 4 Claims. (Cl. 137—21.)



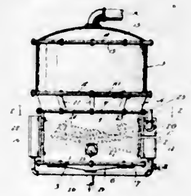
1. In a water column or standpipe, the combination of a vertical pipe, a laterally projecting discharge nozzle therefor, a discharge spout arranged over said discharge nozzle and having a roller at its rear end riding on the top of the nozzle whereby the spout is supported for pivotal and longitudinal adjustment thereon, a lever pivoted at its rear end extending forwardly above said discharge spout, a spout suspending cable at the front end of said lever, a post disposed at the rear end of said lever and provided with a pulley, a counterweight, and a suspending cable therefor disposed over said pulley and connected to said lever.

1,338,847. BOTTLE-CAP LIFTER. PAUL H. WELCKER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Jan. 22, 1920. Serial No. 353,183. 6 Claims. (Cl. 215—9.)



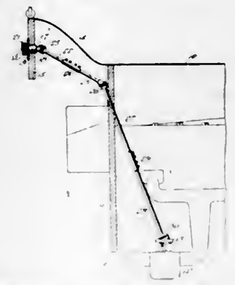
1. A bottle cap lifter, including a piercing element, a cap engaging fulcrum bar and an operating arm adapted when depressed to cause the piercing element to tilt a portion of a bottle cap to open the bottle without removing the cap.

1,338,848. LIQUID-EVAPORATOR. RICHARD T. WHITE, Chicago, Ill. Filed Apr. 7, 1919. Serial No. 288,423. 11 Claims. (Cl. 257—240.)



1. In an evaporator, the combination with a rectangular chamber having a side liquor inlet connection and a bottom liquor discharge connection, of upper and lower steam chests on one side of said section, and an intermediate steam chest on the other side of said section, a steam inlet connection into the upper steam chest, a condensation connection from the lower portion of the lower steam chest, a water seal connection joining the intermediate steam chest with the lower steam chest, a series of downwardly sloping steam tubes extending across the interior of the chamber from the upper steam chest to the lower portion of the intermediate steam chest, and a series of steam tubes slanting downwardly across the chamber from the upper portion of the intermediate steam chest to the lower steam chest, substantially as described.

1,338,849. CARBURETER-ADJUSTING DEVICE. THOMAS DONALD ADAIR, Jr., Boston, Mass., assignor to Standard Thermometer Company, Boston, Mass. Filed July 6, 1918. Serial No. 243,549. 2 Claims. (Cl. 137—139.)



1. The carbureter control device for automobiles having, in combination, a bearing sleeve provided with a flange adapted to be supported in the instrument board of the car, the flange having provision for securing the bearing sleeve in position in the instrument board, a handle pivotally mounted in the bearing sleeve, a universal joint connected with the handle forward of the bearing sleeve, a shaft piece connected with the universal joint and extending forwardly, a second shaft piece connected to the first shaft piece by a sleeve coupling, a universal joint at the forward end of the second shaft piece located near the dash, a third shaft piece extending up through the dash and attached to said universal joint, a fourth shaft piece connected to the third shaft piece by a sleeve coupling and provided on its forward end with a fork adapted to engage the needle valve.

1,338,850. SUSPENDER-LINK. JOHN F. BEAR, Mansfield, Ohio, assignor to The Ohio Suspender Company, Mansfield, Ohio, a Corporation of Ohio. Filed Sept. 5, 1919. Serial No. 321,741. 5 Claims. (Cl. 241—19.)



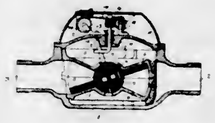
1. In a suspender link, two yokes of different dimensions one adapted to swing within the other and a member provided with a slot and two bearings which is adapted to pivotally connect the yokes together.

1,338,851. ANTISKID-CHAIN REPAIR-LINK. OSWALD H. BEUTLER, South Bend, Ind. Filed Nov. 5, 1919. Serial No. 335,970. 3 Claims. (Cl. 152—14.)



1. A repair link for an antiskid chain for tires, comprising a body portion having an aperture therein, a wedge plug adapted to be driven into said aperture, and bendable strips carried by and extending in opposite directions from the body, said plug and strip ends being formed to provide a holdfast engagement therebetween in driving the plug into effective position.

1,338,852. METER. LINCOLN BURNHAM, Urbana, Ohio. Filed Oct. 31, 1918. Serial No. 260,437. 2 Claims. (Cl. 73—98.)

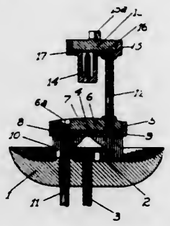


1. In a meter, a main open top chamber, a fluid chamber therein insertible through the open top thereof, a fluid operated member in said fluid chamber, a fluid tight cover for the top of said main chamber, registering mechanism and operating devices therefor located on the top of said cover, an operative connection from said fluid operated member to said operating devices extending through a fluid tight bearing in said cover, a casing for said mechanism and devices, and means common to the main chamber, cover and casing for clamping all three parts together.

1,338,853. HYDROCARBON-BURNER. MARION G. CHILDERS, Willows, Calif. Filed June 16, 1919. Serial No. 304,459. 1 Claim. (Cl. 158—13.)

A hydrocarbon burner including a relatively heavy burner plate, a cup below and spaced from the same, the

plate being screwed thereinto to form an inclosed chamber, a fuel pipe leading into the bottom of the cup at one edge thereof, a similar pipe extending upward from the plate opposite to the lower pipe to a relatively thin cup



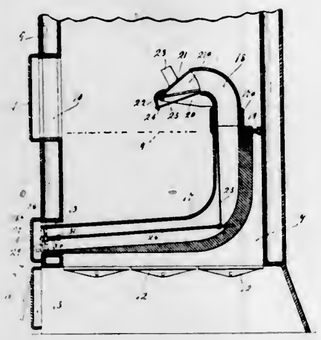
spaced from the plate, a plug screwed into the cup to form a narrow chamber therein, and a nozzle projecting downward from the bottom of the cup central of the plate and communicating with the chamber in the upper cup.

1,338,854. VEHICLE-SPRING. EDWARD CLARK, Milwaukee, Wis. Filed Apr. 26, 1919. Serial No. 292,844. 1 Claim. (Cl. 267—28.)



The combination with an automobile comprising a frame, an I-beam supporting axle and a leaf spring supporting the frame from the axle, of an upper bracket member secured to the frame and spring and including a U-shaped member engaged about the frame where the leaf spring is secured thereto and set screw members carried by said bracket and engaged against the vehicle frame to secure said bracket thereto, a lower bracket member including an inverted U-shaped bracket engaged with the supporting axle in vertical allnement with the upper bracket, and securing bolts retaining the lower bracket upon the axle, reinforcing inserts set in the channels of the supporting axle where the lower bracket is secured thereto, and an extensile spring secured between the upper and lower bracket members and urging the same apart.

1,338,855. HEATER. ERNEST B. CLEWORTH, St. Paul, Minn. Filed Apr. 19, 1919. Serial No. 291,207. 7 Claims. (Cl. 126—77.)



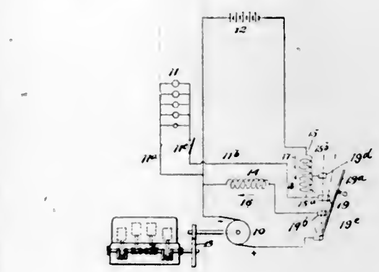
1. The combination with a heater, of an auxiliary air intake tube extended up through the fire pot thereof and provided at its upper end with a swiveled nozzle adapted to swing above the burning fuel, the said nozzle having a pivoted deflecting blade for regulating the downward deflection of the air above the fuel.

1,338,856. FISHHOOK. THEODORE COTÉ, Duluth, Minn. Filed Feb. 21, 1920. Serial No. 360,281. 3 Claims. (Cl. 43—46.)



1. A lure of the character described comprising a spirally wound resilient wire the coils of which are normally spaced apart, hooks attached to the sides of the body portion and hooks attached to the after end of the body portion, substantially as described.

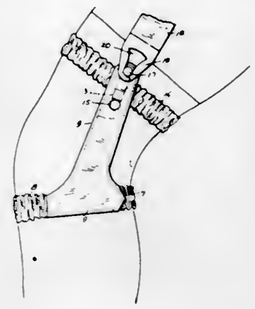
1,338,857. ENGINE-STARTING AND AUTOMOBILE-LIGHTING SYSTEM. JUSTUS B. ENTZ, Cleveland, Ohio. Filed Mar. 11, 1912, Serial No. 682,859. Renewed Jan. 15, 1919. Serial No. 271,335. 5 Claims. (Cl. 290—31.)



1. In combination an internal combustion engine, an engine starting and lighting system, comprising a dynamo electric machine designed to serve as a motor to start the engine or as a generator, a battery and a lamp circuit both adapted to receive current from the dynamo electric machine, the latter having a shunt field winding for producing a field of constant polarity and a sectional series field winding which produces a field which assists the field of the shunt field winding when the machine is serving as a motor and which opposes the field of said shunt field winding to an extent dependent upon the speed of the engine, when the machine is serving as a generator, and means for connecting into circuit one or more of the series winding sections.

4. In a starting and lighting system adapted to be employed in connection with internal combustion engines, a dynamo electric machine having an armature and a field member provided with series and shunt windings for producing fields which assist each other when the machine is serving as a motor to start the engine and oppose each other when the machine is driven by the engine as a generator, a battery, a lamp circuit, and a switch for connecting and disconnecting the armature and battery and for rendering the shunt field winding effective and ineffective, said switch when closed serving to connect the lamp circuit across the terminals of the armature and when opened leaving the lamp circuit connected to the battery whereby the current passing through the lamp circuit does not pass through the series field winding when the machine is serving as a generator and is charging the battery and when the switch is opened the lamp circuit is not interrupted.

1,338,858. LADY'S GARTER. MAGDALENA DE LOS S. ENRIQUEZ, New York, N. Y. Filed June 20, 1919. Serial No. 305,659. 2 Claims. (Cl. 241—5.)



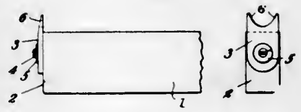
1. A garter comprising a plurality of non-elastic supporting members each having a series of button holes disposed lengthwise thereof in spaced relation for engagement by the clasp of the usual stocking supporter; a plurality of elastic connectors uniting in service said supporters to form in conjunction therewith an open ended partially elastic band for encircling the leg below the knee; an open ended continuous elastic band for encircling the leg above the knee; and a plurality of guide loops formed on said supports adjacent the upper end thereof for loosely holding said continuous band in service.

1,338,859. BELT. NEWELL T. FOGG, Melrose, Mass. Filed Feb. 24, 1919, Serial No. 278,565. Renewed Feb. 2, 1920. Serial No. 355,697. 5 Claims. (Cl. 241—8.)



5. An article of the class described comprising a line member laid in a plurality of flattened successive close laid unattached turns and forming a flattened tubular elongated body, and a flat belt core having belt fastenings projecting beyond the ends of said line member, said line member and said belt core being separable.

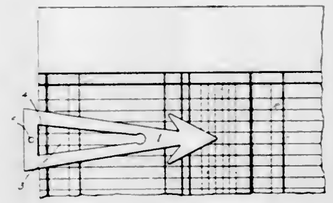
1,338,860. HOCKEY-STICK. NEWELL T. FOGG, Melrose, Mass. Filed Feb. 24, 1919, Serial No. 278,566. Renewed Feb. 2, 1920. Serial No. 355,698. 6 Claims. (Cl. 46—4.)



1. In combination with a hockey stick, a pivoted spur on the end of the handle thereof, having a guarded and a projected position relative to the sides of said handle end.

1,338,861. BOOKMARKER. ROBERT NELSON FRAME, Buffalo, N. Y. Filed Feb. 12, 1919. Serial No. 276,632. 1 Claim. (Cl. 116—119.)

A book marker, comprising an indicator-plate of resilient material adapted to lie upon the face of a leaf, said plate being provided at its front end with a pointer and in rear thereof with a three-sided opening through which subjacent entries on said leaf are exposed, and a spring-tongue integral with said plate and formed by the cutting of said opening, said tongue terminating short of said pointer and its attached end being provided at its junc-



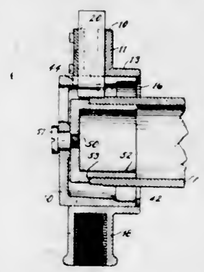
tion with the plate with an offset arranged on the rear side of the plate, whereby the tongue is depressed rearwardly out of the plane of the plate, all portions of said plate being flat, smooth and free from projections and lying in the same plane except said tongue.

1,338,862. LOCK-NUT. WALLACE H. GOHR, Milwaukee, Wis. Filed Apr. 19, 1919. Serial No. 291,234. 1 Claim. (Cl. 151—29.)



In a lock nut, the combination of a bolt having radially disposed recesses at its threaded end and spaced at unequal distances apart, a polygonal nut on the bolt, a cap having a flanged portion fitting over the nut and apertured to receive the bolt and provided with a single tongue engageable in one of the recesses.

1,338,863. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Sept. 16, 1918. Serial No. 254,232. 6 Claims. (Cl. 10—120.5.)

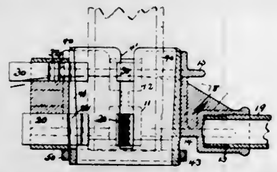


1. In a die stock, the combination of a rotary frame, a cup-shaped bushing having its wall occupying the interior of the frame, said wall being internally tapered, chasers carried by the frame engaged by said tapered portion, and a member having a cylindrical sleeve portion adapted to engage the interior of a pipe and a larger portion adapted to abut the end of the pipe and a head adapted to stand adjacent to the head of said cup-shaped bushing, and means for connecting the two heads by a swivel at the axis of the die stock.

1,338,864. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Dec. 28, 1918. Serial No. 268,624. 12 Claims. (Cl. 10—120.5.)

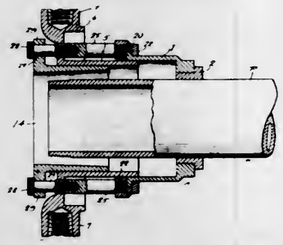
3. In a die stock, the combination, with a frame, of a set of guide blocks carried thereby, a set of chasers carried

thereby, said guide blocks and chasers being each provided with transverse shoulders, and a slotted bushing adapted



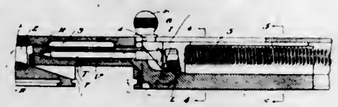
to be inserted within the frame and engage the shoulders of both the chasers and the guide blocks.

1,338,865. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 30, 1919. Serial No. 293,633. 10 Claims. (Cl. 10—120.5.)



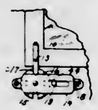
1. In a die stock, the combination of a rotary frame, chasers carried by the frame for cutting threads, a tapered bushing slidably fitting the frame and internally tapered, slots extending from one end of the bushing to receive the chasers, shoulders on each chaser engaging a tapered portion of the bushing, the bushing being longitudinally slidable in the chaser frame, and a stop for limiting the longitudinal movement of the bushing.

1,338,866. FIREARM. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,699. 13 Claims. (Cl. 42—3.)



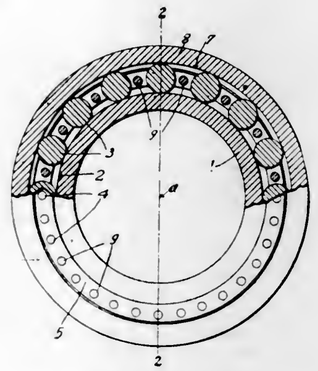
1. In a gun, a receiver, a breech block having laterally spaced upper surfaces fitting in said receiver, and a firing member movable relative to said breech block, a broad tail on the firing member bearing on both the spaced upper surfaces of the breech block.

1,338,867. SAFETY DEVICE. WILLIAM F. PURCELL, Morristown, N. J. Filed Nov. 2, 1916. Serial No. 129,042. 2 Claims. (Cl. 187—61.)



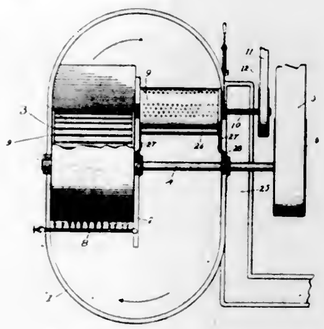
1. In a safety lock for hatchway doors, the combination with a hatchway door having a door iron movable toward and away from said lock, a revoluble disk having a series of oppositely opposed indents having parallel sides within the disk, a slidable bolt capable of insertion within one indent preventing the movement of the disk and a spring tending to move the bolt toward the center of the disk, a second indent of the disk being arranged to receive the door iron on movement of the door toward the lock.

1,338,868. ANTIFRICTION-BEARING. JOEL TROUT RICE, JOEL A. RICE, and ROYAL A. RICE, New York, N. Y. Filed Aug. 7, 1916. Serial No. 113,568. 1 Claim. (Cl. 64—38.)



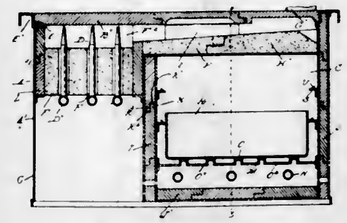
An anti-friction bearing including an outer ring having a curved surface, an inner ring having a curved outer surface terminating in flanges, spaced parallel rings, anti-friction rollers supported by the rings, the flanges of the outer curved surface of the inner ring extending upwardly and lying between the parallel rings and the ends of the rollers, thereby forming a housing for the lower portions of the rollers, and means for connecting the concentric rings.

1,338,869. TUB-BEATER. JAMES E. SALSMAN, Crescentville, Ohio, assignor of one-twelfth to W. S. Rowe and five-twelfths to Harold W. Nichols, Cincinnati, Ohio, and one-fourth to Harry B. Jones, Arlington, Ohio. Filed Apr. 29, 1918. Serial No. 231,387. 8 Claims. (Cl. 92—23.)



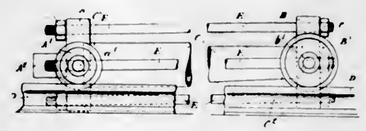
1. In a tub beater, a separator for the finished stock comprising a hollow cylindrical roll mounted transverse the tub and adapted to be rotated in the paper stock, said cylinder having a smooth exterior, with perforations for the cylinder of a size to allow the finished stock to enter the cylinder and reject the unfinished stock, and means for discharging same therefrom.

1,338,870. RANGE. HENRY D. SCHALL, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed May 2, 1919. Serial No. 294,160. 4 Claims. (Cl. 126—39.)



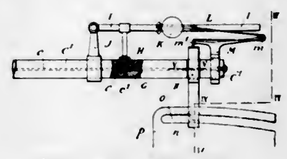
1. In a range, the combination with an oven, of burners positioned in the lower part of the oven, a door opening located at the front of the oven, and a supporting plate positioned above said burners and having a plurality of integrally formed U-shaped ribs, said plate being perforated to assist the circulation of the heat and having the upper surface of said ribs located substantially in the plane of the lower edge of the oven door opening, said ribs running lengthwise of the oven toward the front.

1,338,871. APPARATUS FOR THE APPLICATION OF HYDRAULIC PRESSURE TO THE INTERIOR OF A TUBE BEING SHAPED BY THE SELF-HOOPING PROCESS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,494. 18 Claims. (Cl. 29—1.11.)



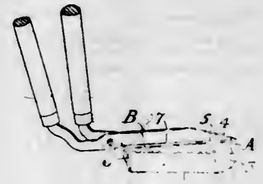
1. An apparatus for applying hydraulic pressure to the interior of metal tubes in the "self-hooping" process, comprising two suitably supported sliding crossheads in which the ends of the tube to be shaped are engaged; the said crossheads being connected together by tie-rods of adjustable length, one of said crossheads serving as an abutment or a support for a closing device pierced by a duct for the discharge of liquid and the escape of air, while the other crosshead is constructed to form or receive a duct for the admission of liquid under pressure.

1,338,872. APPARATUS FOR SELF-HOOPING TUBES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,502. 8 Claims. (Cl. 29—1.11.)



1. An apparatus for effecting the "self-hooping" of metal tubes by consecutive zones by means of a liquid under pressure forced into the annular space between the internal wall of the tube and a mandrel, characterized by a mechanism that allows of producing by gradual displacement of the said mandrel, a gradual increase of the pressure in the said annular space; the said displacement being automatically limited by a discharge of liquid from said space through an axial passage of the mandrel opening into a discharge passage formed in an outer extension of the said mandrel and normally closed by a loaded valve whose load is regulated automatically according to a determined law of variation (corresponding to the variations of the strains to which the various sections of the tube are subjected) by a mechanism controlled by the displacements of the mandrel and also simultaneously by a guiding cam.

1,338,873. GRASS-BORDER SHEARS. HENRY BURTON SCOTT, Rock Ferry, England. Filed Nov. 28, 1919. Serial No. 340,999. 4 Claims. (Cl. 56—202.)



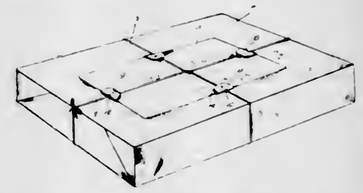
1. As a new article of manufacture, a detachable grass box or tray for edging shears, comprising a laterally extending element having a trough-like channel to one side thereof adapted to frictionally grip the lower blade of the shears and the walls whereof lie in a plane clear of the upper blade.

1,338,874. AEROPLANE-PROPELLER. RICHARD M. SHAFFER, Baltimore, Md., assignor of one-fourth to Charles B. Mann and one-fourth to Charles B. Mann, Jr., Baltimore, Md. Filed Sept. 20, 1917. Serial No. 192,278. 8 Claims. (Cl. 170—171.)



8. An air-craft propeller having a plurality of main blades and each main blade having an inclined bracing blade at the side thereof, each bracing blade being shorter than the main blade and having its outer end secured against the flat side of the main blade it braces and the inner end of each shorter bracing blade extending rearwardly of the main blade it braces.

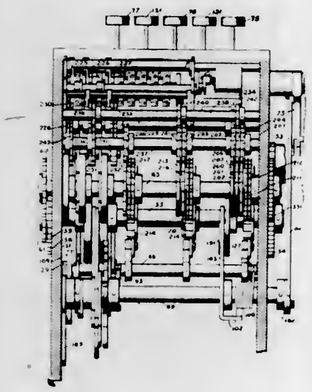
1,338,875. LETTER-HOLDER FOR PACKAGES. ANTONIO P. SIMAO, Lowell, Mass. Filed Apr. 7, 1919. Serial No. 287,994. 5 Claims. (Cl. 24—16.)



3. The combination with an identifying member, of clips secured to the edges of said member and bearing against the upper and lower faces thereof, each clip including a body portion having a substantially V-shaped slot formed in one end thereof and defining spaced tongues, and an opening disposed at the apex of the slot to permit the passage of a securing element, the opposite end of

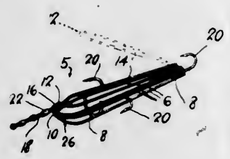
each body portion being formed with a head overhanging the adjacent tongues and provided with a depending marginal flange adapted to bear against said securing element.

1,338,876. TICKET-ISSUING ACCOUNTING-MACHINE. FRANCESCO SKERL and FORREST J. GRAEF, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a Corporation of Ohio. (incorporated in 1906.) Filed May 22, 1916. Serial No. 99,097. 42 Claims. (Cl. 235—3.)



1. In a machine of the class described, the combination of a totalizer, a plurality of totalizer actuators constructed to add different fixed amounts, and means for selectively operating the actuators a variable number of times.

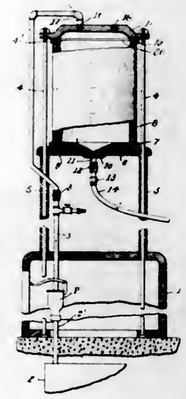
1,338,877. FISH-LURE. CHARLES L. SMITH, Regan, N. D. Filed July 10, 1919. Serial No. 309,863. 2 Claims. (Cl. 43—41.)



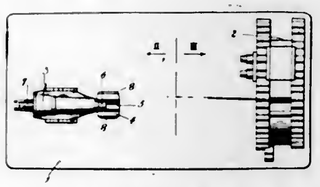
2. A fish lure comprising a plurality of longitudinally extending wire rib forming members, transversely secured wire stay members, certain of said ribs having their forward ends formed into a securing eye a hinged cover made of a number of wire ribs having their rear ends formed into hinge eyes held to one of said stay members the forward ends of said cover terminating in a securing eye, a link having one of its ends engaged with said securing eyes, and a sleeve on said link to close said link.

1,338,878. GASOLENE-DELIVERY TANK. KLEBER W. SMITH, Freeport, Me. Filed Aug. 3, 1917. Serial No. 184,230. 3 Claims. (Cl. 221—67.)

2. In combination, a source of supply, a plurality of spaced uprights, a base mounted on said uprights and having an annular groove to receive the lower edge of a container and having a discharge opening communicating with the interior of the container, a transparent container supported on said base and inclosed within and protected by said uprights and having a series of graduations visibly exposed between said uprights, and a delivery connection from said source of supply to the interior of said container.

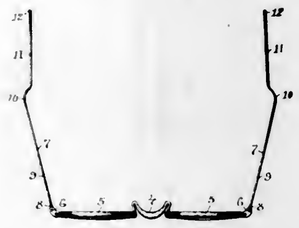


1,338,879. COMBINED TOY AND SAVINGS-BANK. ROBERT EASTWOOD STARKIE and NELLIE STARKIE, Burnley, England. Filed May 12, 1919. Serial No. 296,608. 1 Claim. (Cl. 46—36.)



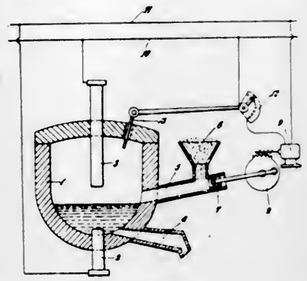
A toy, comprising a receptacle for coins provided with an entrance opening, a gun provided with a slidable plunger adapted to propel the coins into the said opening, and a table for supporting the coins in front of the muzzle of the gun, said table having a central groove for the plunger to slide in and having also upwardly projecting side flanges for positioning the coins.

1,338,880. OPHTHALMIC MOUNTING. FREDERICK ARTHUR STEVENS, Providence, R. I., assignor to Stevens and Company, Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Aug. 11, 1919. Serial No. 316,790. 4 Claims. (Cl. 88—52.)



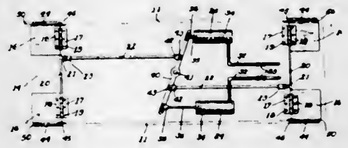
1. In an ophthalmic mounting, a spectacle temple having a straight portion merging into a bent in sidewise portion which in turn merges into a near portion, for the purpose as described.

1,338,881. PRODUCTION OF IRON IN AN ELECTRIC FURNACE. GUY JAMES STOCK, Bradford, England. Filed Feb. 13, 1920. Serial No. 358,384. 5 Claims. (Cl. 204—64.)



1. A process for the production of iron in an electrical furnace consisting in supplying current to melt the charge and raise it to the required temperature and in feeding the ore steadily at such a rate as to balance the electrical energy supplied and thus maintain the temperature substantially constant.

1,338,882. AIR-OPENER FOR DOORS. JOE SZCZYREK, Chicago, Ill. Filed Nov. 25, 1919. Serial No. 340,508. 2 Claims. (Cl. 105—429.)



1. In a device for operating step covers and doors, the combination with a pair of doors hung on vertical axes, a pair of opposed step covers, guide rollers set in the lateral edges of said covers adapted to contact with said doors to close them, a pair of air operated pistons, a centrally pivoted cross bar actuated by said pistons, and operative connections between the ends of said cross bar and said covers.

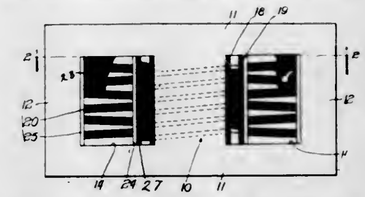
1,338,883. CURTAIN-FASTENER. HARRY KERN TARKINGTON, Connersville, Ind. Filed June 12, 1919. Serial No. 303,606. 4 Claims. (Cl. 24—214.)



1. A curtain fastener comprising an apertured eyelet member and a stud member, the latter having an eyelet supporting shoulder flange and a tubular post, yielding locking means on the post at a distance from the shoulder flange equal to the thickness of the eyelet member, to be accessible to the operator when the eyelet and stud members are in locked relation, said locking means being frictionally held in position and having bearings at opposite sides of the slots through which the same projects.

1,338,884. TRANSFORMER. CHESTER H. THORDARSON, Chicago, Ill. Filed Dec. 8, 1913. Serial No. 805,253. 12 Claims. (Cl. 175—361.)

2. A transformer comprising a magnetic circuit, winding elements surrounding the same comprising a flat bare wire, with an insulating medium separating the turns of the wire and extending at the edge thereof laterally beyond the line of contact of the medium with the wire to provide means for avoiding short circuiting of adjacent turns upon each other and arranged to maintain the edges



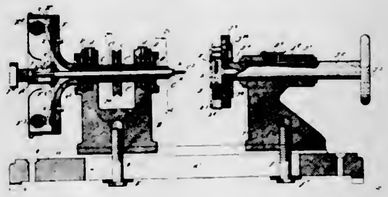
of the turns exposed to free access of a cooling medium, and means for spacing the winding elements, permitting a cooling medium to be directed past the bare edges of all of said turns to bring it uniformly to sources of heat set up in the winding elements.

1,338,885. SEWER-BLOCK. JOHN E. ULM, Barberton, Ohio. Filed Nov. 24, 1917. Serial No. 203,815. 2 Claims. (Cl. 72—51.)



2. A device of the class described embodying outer blocks having their ends respectively convexed and concaved for engagement with the corresponding elements of a like block, and comprising concentric outer, intermediate and inner walls, the intermediate wall extending entirely across the block, the inner wall comprising spaced parts joined to the intermediate wall by outwardly extending members to define a recess in the outer block, the outer and intermediate walls being connected by a partition disposed approximately midway between the sides of the recess: and inner blocks extending across the joints afforded by the convexed and concaved ends of the outer blocks, each inner block including concentric inner and outer walls joined by a partition disposed approximately opposite to said joint, the inner blocks being provided at their ends with hollow outwardly-extending projections, the projections on adjoining blocks being received in pairs in the recesses of the outer blocks.

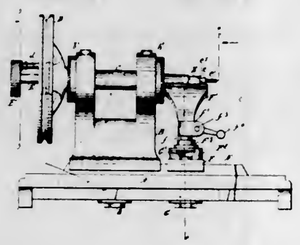
1,338,886. MACHINE FOR MAKING THERMOPHONE-BLANKS. ANTHONIUS M. VAN DOORN, Newton, Mass., assignor, by mesne assignments, to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1919. Serial No. 280,167. 12 Claims. (Cl. 140—71.)



1. In a machine of the kind described, a rotary workholder adapted to hold a core, means adapted to rotate

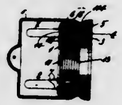
with said work-holder for supplying a plurality of wires to said core, means for drawing said wires from said supply, and means for attaching said wires to said core.

1,338,887. MACHINE FOR FINISHING THERMOPHONES. ANTHONIUS M. VAN DOORN, Newton, Mass., assignor, by mesne assignments, to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1919. Serial No. 280,168. 6 Claims. (Cl. 140—71.)



1. A machine of the kind described comprising a longitudinally movable spindle, a sleeve located about said spindle, said spindle and said sleeve being connected whereby they will rotate together, said spindle being provided at one end with means to attach a blank thereto, and having a means located near said end whereby wires projecting from said blank may be deflected outwardly in the act of attaching said blank to said spindle.

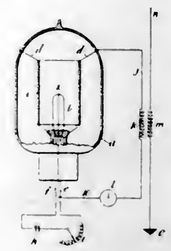
1,338,888. METHOD OF MAKING THERMOPHONES. ANTHONIUS M. VAN DOORN, Newton, Mass., assignor, by mesne assignments, to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 21, 1919. Serial No. 284,196. 7 Claims. (Cl. 179—101.)



1. That method of forming a thermophone which comprises the attachment of a plurality of separate straight wires, all of substantially the same length, each having a removable metallic coating, to an electrode to occupy spaced parallel and permanent relationship to one another, cutting said wires to project a uniform distance from said electrode, bending said wires to form loops, attaching the free ends of said loops to a second electrode, electrically insulated from said first electrode whereby loops all of the same length will connect said electrodes, and then subjecting an equal portion of each of said loops to an etching process whereby an equal portion of the metallic coating on said loops will be removed therefrom and the substantially equal electrical resistance of all of said loops will be secured.

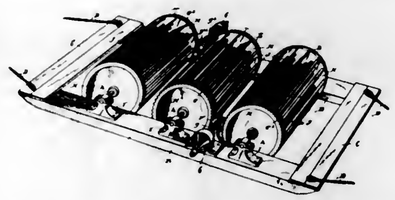
1,338,889. APPARATUS FOR RADIOSIGNALING. ROY A. WEAGANT, Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 1, 1916. Serial No. 75,563. 15 Claims. (Cl. 250—27.)

1. In a valve of the described character, the combination of a chamber or inclosure, a plurality of fixed circuit terminals, one of which is heated, located within said chamber; a circuit, an indicator in said circuit, a direct, electrical connection from a point in said circuit on one side of said indicator to a heated point in said heated element within said chamber, and a direct connection from



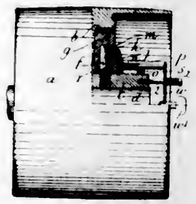
a point in said circuit, on the other side of said indicator, to another of said elements.

1,338,890. WATER-POWER APPARATUS. WILLIAM H. WILBER, Buffalo, N. Y. Filed Nov. 20, 1917. Serial No. 202,900. 18 Claims. (Cl. 170—103.)



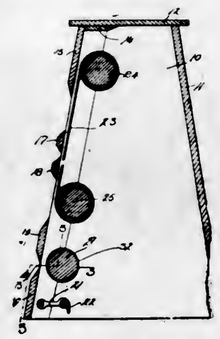
1. A water wheel or motor having a plurality of series or circuits of blades so arranged that the radial measurement of the annular space in which they are placed is less than the combined transverse measurement of the contact faces of said blades against which the flowing water acts, the blades of different series or circuits being disposed in different radial planes so that they enter and leave the water in succession.

1,338,891. CLUTCH. ALBERT ERNEST WOODHOUSE, Westminster, London, England. Filed Aug. 26, 1918. Serial No. 251,404. 10 Claims. (Cl. 192—11.)



1. In a clutch comprising a member to be driven, a driving member, a carrier on said driving member, clutch devices upon said carrier capable of moving under centrifugal action to engage the member to be driven and means acting in an axial direction to restrain the outward movement of said clutch devices, means for controlling said restraining means, comprising an abutment device mounted on said carrier, a plurality of longitudinal pins arranged around said carrier and supported by said abutment device and a plurality of coiled springs each surrounding one of said pins and located between the restraining means and said abutment device and adapted to exert endwise pressure on the former.

1,338,892. COMPUTING-TABLE DEVICE. ALBERT A. WRAY, Fredonia, Kans. Filed June 26, 1917. Serial No. 177,044. Renewed Feb. 19, 1920. Serial No. 359,853. 2 Claims. (Cl. 40—86.)



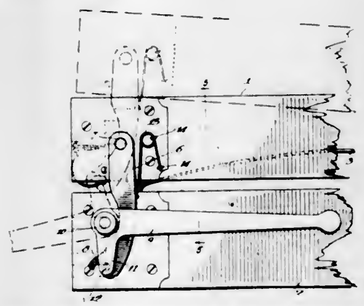
1. A cabinet of the character described comprising a main section having side walls, a top overhanging the side walls, a cross strip carried by the top and positioned between and in front of the side walls, an auxiliary section having a forward wall having sight openings formed therein and having side walls engaging the ends of the cross strips and the forward edge faces of the side walls of the main section, the contacting edge portions of the side walls being provided with cutouts forming pockets, rollers extending transversely through the cabinet and having stub shafts rotatably mounted in the pockets, and a ribbon connected with said rollers whereby the ribbon may be wound upon the rollers and moved for display purposes across the sight-opening in the front wall of the auxiliary section.

1,338,893. FRICTION DRAFT-GEAR. HENRY YOERG, St. Paul, Minn. Filed Jan. 5, 1918. Serial No. 210,485. 13 Claims. (Cl. 213—64.)



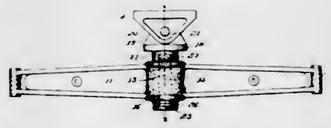
1. The combination, with a car and its draw-bar, of laterally movable friction blocks mounted to yieldingly resist outward and inward strain on said bar, a member having chambers to receive said blocks, the walls of said chambers being adapted to force the blocks therein toward each other during their outward movement.

1,338,894. PRINTING-FRAME. DAVID FRANK YOUNKIN, Johnstown, Pa. Filed July 12, 1919. Serial No. 310,341. 4 Claims. (Cl. 95—77.)



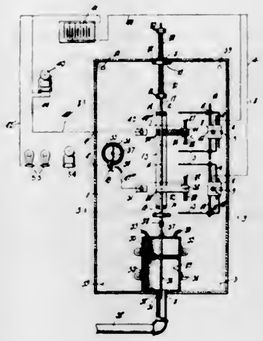
1. A printing frame comprising sections hinged together at one end, said frame having contacting surfaces for engaging the negative and paper to space the frames apart, and the hinges being outside of the main frame, and means at the opposite ends of the sections for clamping them together and for holding the frames in spaced relation or for clamping them together tightly, said means comprising links secured to one frame section, a bell crank lever pivoted at its angle to the other frame section, said lever having a long arm serving as a handle and a short arm provided with a pin, the link having a slot in the end remote from the first named section having one end undercut for engagement by the pin, and a spring normally pressing the link toward the pivotal connection of the lever.

1,338,895. SPRING-PERCH. OTTO E. ZAHN, Schleisingerville, Wis., assignor to Standard Machinery Company, Schleisingerville, Wis., a Corporation of Wisconsin. Filed Apr. 22, 1919. Serial No. 291,805. 3 Claims. (Cl. 280—112.)



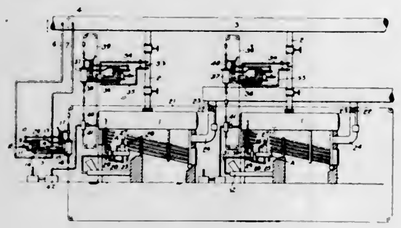
1. In combination with an axle having an enlargement provided with a cup-shaped socket having a bottom, concentrically arranged upright posts mounted upon said bottom within the socket, a plunger slidably mounted in the outer end of the socket, dowels carried by the inner end of the plunger in axial alinement with said posts, helical springs within the socket mounted upon said dowels and posts with the plunger seated upon said springs and a plate pivoted to the outer end of the plunger.

1,338,896. FLUID-PRESSURE CIRCUIT-CLOSER. THOMAS E. BRAZEAL, Maitland, W. Va. Filed Nov. 27, 1916. Serial No. 133,767. 2 Claims. (Cl. 200—82.)



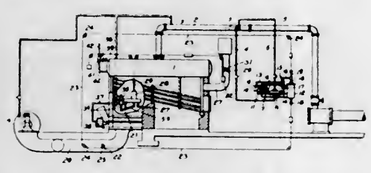
1. A circuit closer comprising in combination with an air cylinder having an air inlet, a piston operable in the cylinder, a rod secured to the piston and extending through the end of the cylinder, an arm secured to the rod, a vertically slidable pin extending through the end of the arm, a block secured adjacent the rod, said block having vertically extending passageways therein, spaced adjustable contacts carried by the block and adapted to be engaged by the pin for closing a circuit, said contacts having right angle extensions received in the passageways, means for holding the right angle extensions in adjusted position in the passageways, threaded rods secured to the blocks and adapted to extend through the contacts, and means carried by the threaded rods for adjusting the contacts.

1,338,897. CONTROLLING COMBUSTION IN A PLURALITY OF GENERATORS. FRANCIS H. BROWN, Philadelphia, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Filed Oct. 9, 1917. Serial No. 195,626. 2 Claims. (Cl. 110—54.)



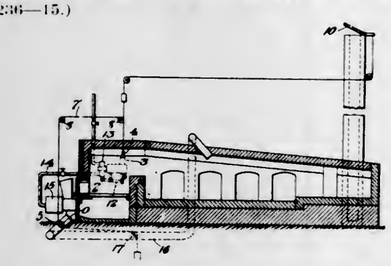
1. The method herein described which consists in regulating the flow of products of combustion from each of the furnaces of a plurality of generators by and in accordance with the rate of flow of the generated fluid from all the generators and regulating the feed of fuel to the several furnaces by and in accordance with the pressure in the respective furnaces as affected by the outflow of products of combustion therefrom.

1,338,898. REGULATING COMBUSTION IN FURNACES. FRANCIS H. BROWN, Philadelphia, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Filed Dec. 10, 1917. Serial No. 206,463. 5 Claims. (Cl. 110—54.)



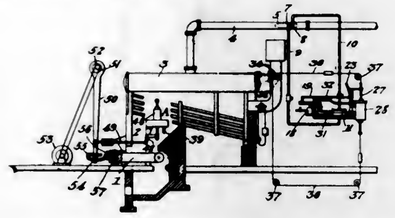
3. The method herein described which consists in regulating the flow of air to the fire box of a boiler by and in accordance with the flow of steam from the boiler and regulating the feed of water to the boiler by and in accordance with the pressure of gases in the furnace.

1,338,899. COMBUSTION-REGULATING METHOD AND MECHANISM. FRANCIS H. BROWN, Philadelphia, Pa., and JOHN M. HOPWOOD, Pittsburgh, Pa.; said Brown assignor to said Hopwood. Substitute for application Serial No. 206,464, filed Dec. 10, 1917. This application filed Feb. 12, 1920. Serial No. 358,090. 8 Claims. (Cl. 236—15.)



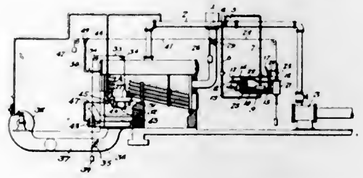
1. The method herein described of controlling combustion which consists in regulating the supply of air for combustion in a furnace by and in accordance with the pressure of gases in the furnace and varying the rate of feed of fuel inversely to the rate of supply of air.

1,338,900. REGULATING COMBUSTION IN FURNACES. FRANCIS H. BROWN, Philadelphia, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Substitute for application Serial No. 184,260, filed Aug. 3, 1917. This application filed Feb. 12, 1920. Serial No. 358,107. 3 Claims. (Cl. 236—14.)



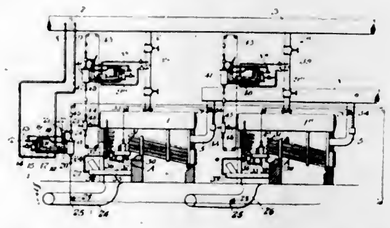
1. The method herein described of controlling combustion in furnaces of boilers, which consists in varying the pressure in furnaces by and in accordance with the flow of steam from the boiler and regulating the feed of fuel to the furnace by and in accordance with the variations of pressure in the furnace.

1,338,901. REGULATING COMBUSTION IN FURNACES. FRANCIS H. BROWN, Philadelphia, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Substitute for application Serial No. 184,261, filed Aug. 3, 1917. This application filed Feb. 12, 1920. Serial No. 358,108. 4 Claims. (Cl. 236—14.)



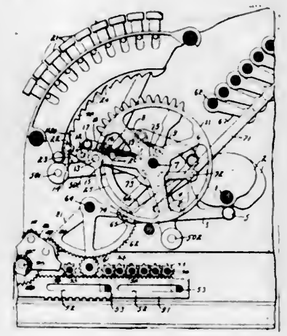
1. The method herein described of controlling combustion in furnaces of boilers which consists in changing the rate of discharge of gases from the furnace by and in accordance with the flow of steam from the boiler, and regulating the feed of fuel and the flow of air into the furnace by and in accordance with variations of pressure in the furnace.

1,338,902. CONTROLLING COMBUSTION IN A PLURALITY OF FURNACES. FRANCIS H. BROWN, Philadelphia, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Substitute for application Serial No. 195,625, filed Oct. 9, 1917. This application filed Feb. 12, 1920. Serial No. 358,109. 5 Claims. (Cl. 236—14.)



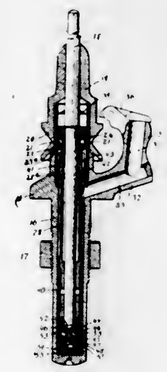
1. The method of regulating the furnaces of a plurality of boilers, which consists in controlling the pressure of gases in the several furnaces by and in accordance with the rate of flow of steam from all the boilers.

1,338,903. PRINTING MECHANISM FOR CASH-REGISTERS. FRED M. CARROLL, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed Aug. 13, 1915. Serial No. 45,300. 75 Claims. (Cl. 235—2.)



20. In a machine of the class described, the combination with devices for printing in columns, of a plurality of key banks, a plurality of actuators controlled by the key banks, and means whereby the combined movement of the plurality of the actuators determines the column to be printed in.

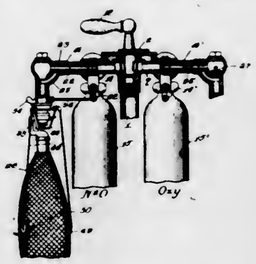
1,338,904. BALL-BEARING SPINDLE. FRED HILDRETH CHAPMAN, Winchester, Mass. Filed Dec. 18, 1917. Serial No. 207,749. 19 Claims. (Cl. 64—80.)



1. A spindle comprising a blade, a lateral ball bearing and a ball bearing step supporting and positioning said blade, the blade being out of contact with the balls and being mounted with the step bearing for lateral cushioned movement.

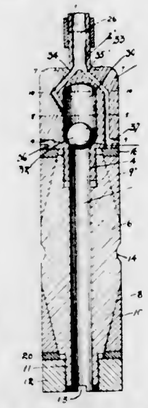
1,338,905. ANESTHETIC APPARATUS. ALBERT CHARLES CLARK, Chicago, Ill., assignor to A. C. Clark & Co., Chicago, Ill., a Corporation of Illinois. Filed May 18, 1914. Serial No. 839,228. 11 Claims. (Cl. 128—203.)

1. In anesthetic apparatus arranged to be equipped with a compressed gas cylinder, a regulating valve in communication with the gas supply from such cylinder, an expansible elastic gas bag constituting a variable-pressure reservoir for a relatively large volume of gas at a relatively low pressure in free communication with the gas-administering passages of the apparatus, a pivoted lever arranged to be rocked by said bag as it is inflated,



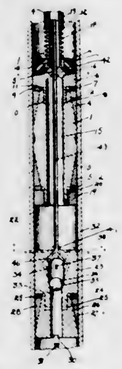
and a connection operated by said lever for opening and closing said valve.

1,338,906. PUMP-PISTON. WILLIAM J. COULSON, Houston, Tex. Filed July 29, 1919. Serial No. 314,151. 10 Claims. (Cl. 103—63.)



9. In a pump, a plunger, a valve therein, means to maintain the plunger of the desired diameter, means to gather sand or sediment finding entrance about said plunger and means to prevent sand or sediment from lodging about said valve.

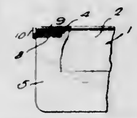
1,338,907. VALVE-FLUSHING MEANS. WILLIAM J. COULSON, Houston, Tex. Filed Aug. 12, 1919. Serial No. 317,050. 8 Claims. (Cl. 103—80.)



6. In a pump the combination of a working barrel, a foot valve chamber secured in said working barrel, a re-

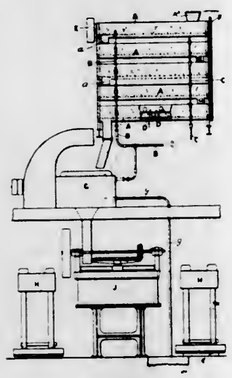
ciprocating plunger in said working barrel above said foot valve, a hollow sucker rod thereon, a ring valve at the upper end of said plunger and means connected with said plunger to project flushing water against said ring valve and said foot valve.

1,338,908. RAZOR. JOSEPH L. CRAWFORD, Raymond, Wash. Filed Aug. 14, 1918. Serial No. 249,838. 1 Claim. (Cl. 30—12.)



In a razor, a blade holder provided with a longitudinally extending blade receiving recess terminating in a straight shoulder at its inner end, a blade of uniform width throughout its length and having a relatively thick back portion removably seated in said recess, said shoulder recessed to receive the inner end of the blade, said blade provided with cut-out portions at the upper corner of each end to permit the reversing of the position of the blade in the holder, a set screw threaded in the outer end of said holder and seating in said cut-out portion, the head of said set screw engaging the end of said blade to prevent accidental movement of the blade with respect to the holder.

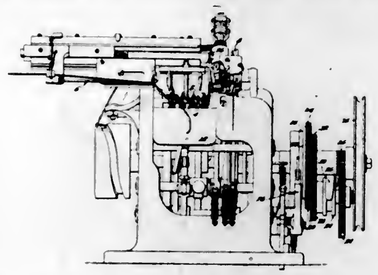
1,338,909. METHOD OR PROCESS OF EXTRACTING OIL FROM VEGETABLE SEEDS, NUTS, AND THE LIKE. CHARLES DOWNS and ROBERT ASPLAND BELLWOOD, Kingston-upon-Hull, and THOMAS WILLOUGHBY TURNILL, Cottingham, near Kingston-upon-Hull, England. Filed Jan. 21, 1919. Serial No. 272,379. 1 Claim. (Cl. 87—6.)



A method of extracting oil from seeds and nuts similar to copra and palm kernels, which consists in first comminuting or grinding the seeds or nuts, then heating the comminuted material by the application of dry heat to a temperature sufficient to drive off the aqueous particles without volatilizing the oil, and simultaneously agitating or churning the material until it is converted into an oleaginous sloppy mass, and subsequently separating the oil from the solid matter in the mass.

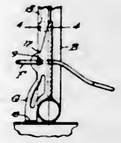
1,338,910. MACHINE FOR LACING SHOE-UPPERS. HERBERT E. ENSLIN, Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 15, 1919. Serial No. 282,897. 4 Claims. (Cl. 112—5.)

1. A machine for lacing shoe uppers, having, in combination, mechanism for forming a series of loops to be passed through the eyelet holes of an upper and for passing a locking cord through the loops, actuating mech-



anism therefor, and means for automatically reducing the speed of the actuating mechanism during the loop forming part of the lace inserting cycle.

1,338,911. TUBULAR LANTERN. ERNEST C. EVERETT, New York, N. Y., assignor to R. E. Dietz Company, New York, N. Y. Filed May 8, 1919. Serial No. 295,661. 5 Claims. (Cl. 240—32.)



5. In a tubular lantern, the combination of the lantern frame comprising a base and an air tube secured thereto, a lever for lifting the lantern globe, and a bent catch plate having a portion attached to and extending inwardly from the air tube and forming a catch for the lifting lever, and a flange forming a bearing for the lifting lever, said flange extending to and anchored to the lantern base and forming a brace for the catch plate and lantern frame.

1,338,912. VALVE-LOCK. JAMES D. FARMER, St. Louis, Mo. Filed Aug. 23, 1917. Serial No. 187,735. 3 Claims. (Cl. 251—6.)



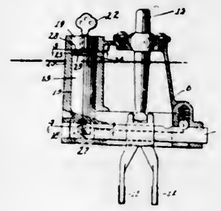
1. A locking device for preventing the passage of fuel to a motor, comprising a series of incased concentrically arranged turnably mounted sleeve like members, each of said members having a pair of relatively long and narrow opposing slots extending to the bottom thereof, each pair of slots being off-set relative to the center of said members, said slots of each of said members being adapted to register with one another, and means located outside of the casing of said members for predetermining the operative and inoperative positions of said members.

2. A locking element for preventing the passage of fuel to a motor, comprising a series of incased turnably mounted sleeve like members, each of said members having a pair of relatively long and narrow opposing slots extending to the bottom thereof, said slots of each of said members being adapted to register with one another and

form an off-set passage relative to the center of said members.

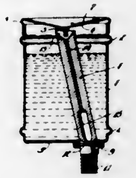
3. A locking element for preventing the passage of fuel to a motor, comprising a series of incased concentrically arranged turnably mounted sleeve like members, each of said members having a pair of off-set opposing relatively long and narrow slots extending to the bottom thereof, said slots of each of said members being adapted to register with one another, and means located outside of the casing of said members for predetermining the operative and inoperative positions of said members.

1,338,913. AUTOMOBILE-LOCKING DEVICE. LEVIN FAUST and EDMUND B. ANDERSON, Rockford, Ill., assignors to Mechanics Machine Company, Rockford, Ill., a Corporation of Illinois. Filed Oct. 27, 1919. Serial No. 333,553. 8 Claims. (Cl. 70—126.)



1. A transmission lock comprising in combination with a pair of shifting rods, a locking member intermediate said rods and rotatable about a vertical axis into and out of locking engagement therewith, a cylinder lock coaxial with said locking member, and means operative between the cylinder member and locking member for rotating the latter approximately three fourths of a revolution into locked and unlocked positions upon rotation of the cylinder member in complete revolution movements.

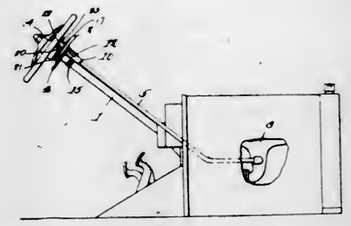
1,338,914. AUTOMATIC OILER. RAYMOND G. FIEGE, Cleveland, Ohio. Filed Oct. 4, 1919. Serial No. 328,376. 1 Claim. (Cl. 184—70.)



An oil cup provided with an outlet pipe having an upper open end within the cup and above the normal oil level therein, and an inverted conical cap on the cup, said cap having a projection at its apex above the open end of said pipe, and also having a filling opening provided with a cover, located out of alinement with said pipe.

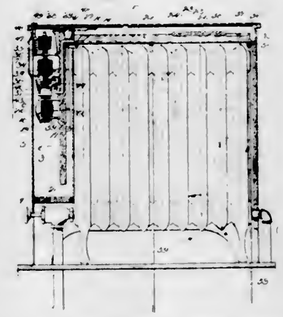
1,338,915. AUTOMOBILE ATTACHMENT. LOUIS F. FULLER, Girard, Kans. Filed June 25, 1918. Serial No. 241,846. 4 Claims. (Cl. 123—124.)

1. In an internal combustion engine, a throttle lever; an air valve; a support; a member in the path of the lever and coöperating with the valve; means for mounting said member movably on the support; and an element on the support movable at the will of an operator to different positions with respect to said member, to cause said member to actuate the valve responsive to the movement



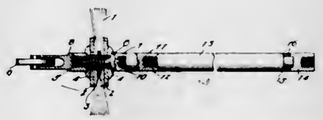
of the lever, and to permit said member to move inoperatively with respect to the valve under the action of the lever.

1,338,916. HUMIDIFYING DEVICE. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed July 24, 1916. Serial No. 110,959. 20 Claims. (Cl. 236—44.)



1. A casing constructed to closely embrace a room radiator and provided with means for regulating the flow of heated air therethrough, a vaporizing pan carried by said casing, means for regulating the escape of vapor from said pan, and hygrometric means carried by said casing for controlling said last-named regulating means.

1,338,917. CONDUIT-CLEANER. EDWARD HALL, Larium, Mich. Filed Nov. 18, 1919. Serial No. 338,898. 1 Claim. (Cl. 15—41.)

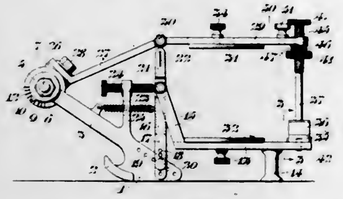


A device of the character specified comprising a supporting shaft having a reduced threaded stem, a circular brush on the stem, a washer of flexible material on each side of the brush, rigid washers outside of the flexible washers, a yoke comprising a body having a socket into which the reduced end of the shaft is threaded and arms extending longitudinally of the shaft from the socket, and a wheel journaled between the arms.

1,338,918. DENTAL ARTICULATOR. RUPERT E. HALL, Chicago, Ill. Original application filed Mar. 30, 1917, Serial No. 158,518. Patent No. 1,271,161, dated July 2, 1918. Divided and this application filed June 4, 1918. Serial No. 238,091. 10 Claims. (Cl. 32—1.)

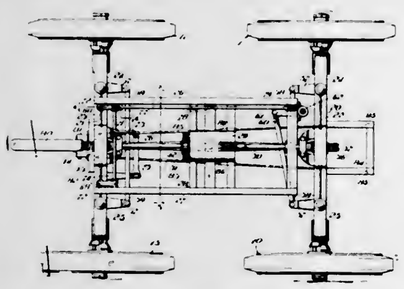
1. An articulator comprising a base having a curved heel upon which it may rock, and upper and lower jaw model

holders pivotally connected and arranged for relative oscillation upon an axis inclined with respect to the



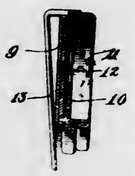
occlusal plane, whereby the lateral oscillation of the upper jaw model holder effects the rocking of said base upon its heel.

1,338,919. TRACTOR. WALTER L. HENDRICKS, Aurora, Ill. Filed Dec. 17, 1918. Serial No. 267,145. 10 Claims. (Cl. 180—14.)



1. In a tractor, in combination, a frame, power driven front and rear carrying wheels therefor, and an arching draft member connected at its forward end to the front end of the frame at a lower level than the axis of the said front carrying wheels and having, intermediate its ends, longitudinal sliding supporting engagement with the rear end of the frame above the level of the said forward end of the draft member, the said draft member being constructed at its rear end for connection with the load below the level at which the draft member has the said sliding supporting engagement with the rear end of the frame.

1,338,920. MATCH-SCRATCHER. JOHN E. HIGH, Great Falls, Mont. Filed Mar. 11, 1918. Serial No. 221,807. 2 Claims. (Cl. 51—20.)

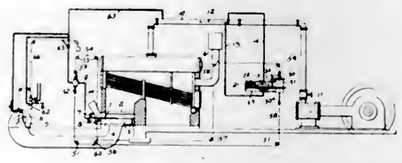


1. A match striker comprising a back plate having a peripheral upstanding flange projecting from and at right angles to the plane of said plate, the flange following parallel curves along the upper and lower edges of the plate and defining an arcuate path, attaching means on the back of the plate, a front plate of a size to fit frictionally within the flange of the back plate, the front plate having an elongated opening and an abrading member clamped between the plates and a portion of it exposed through the opening of the second plate, for the purpose set forth.

1,338,921. COMPOSITION FOR COATING IRON, STEEL, AND WOOD. ALBERT C. HOLZAPFEL and PAUL WALTHER, New York, N. Y. Filed July 25, 1919. Serial No. 313,252. 3 Claims. (Cl. 134—51.)

2. A composition for coating iron, steel or wood, comprising approximately 16 parts by weight of stearin pitch, 16 parts by weight of gum and 68 parts by weight of tar oil.

1,338,922. REGULATING COMBUSTION-FURNACES. JOHN M. HOPWOOD, Pittsburgh, Pa. Filed June 11, 1917. Serial No. 174,039. 9 Claims. (Cl. 110—54.)

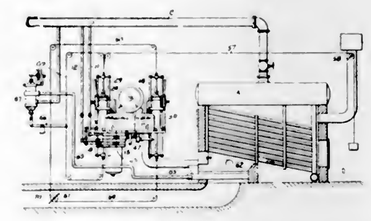


1. The method herein described of controlling combustion in furnaces which consists in regulating the supply of fuel in accordance with the flow of steam from the boiler and varying the feed of said fuel in accordance with variations in the static pressure of the steam.

1,338,923. CONTROLLING COMBUSTION BY FLOW AND PRESSURE. JOHN M. HOPWOOD, Dormont, Pa. Filed Sept. 20, 1918. Serial No. 254,975. 12 Claims. (Cl. 236—14.)

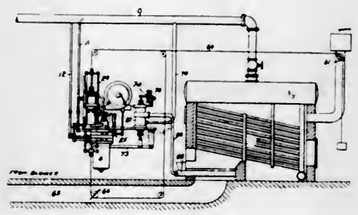
11. A mechanism for controlling one of the herein described operations involved in the combustion of fuel in a furnace, such as feeding fuel, feeding air and the discharge of products of combustion, having in combination a motor, mechanism for controlling the operation of the motor, means operative by a plurality of independently variable fluid pressures for so shifting the controlling mechanism as to cause the operation of the motor, and a compensating mechanism operative by the motor for shifting the controlling mechanism to check said operation after a predetermined movement of the motor.

1,338,924. CONTROLLING COMBUSTION BY FLOW AND PRESSURE. JOHN M. HOPWOOD, Dormont, Pa. Filed Sept. 20, 1918. Serial No. 254,976. 19 Claims. (Cl. 110—54.)



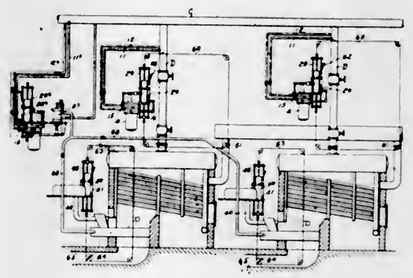
19. The method herein described of regulating the generation of heat in vapor generators which consists in operating the means employed for controlling the flow of products of combustion from the furnace of the generator by and in accordance with changes in the dynamic and static pressures of steam flowing from the generators.

1,338,925. CONTROLLING COMBUSTION BY FLOW AND PRESSURE. JOHN M. HOPWOOD, Dormont, Pa. Filed Sept. 20, 1918. Serial No. 254,977. 10 Claims. (Cl. 110—54.)



4. The combination of a vapor generator having a furnace with means for changing the pressure of gases in the furnace and operative by and in accordance with changes in the rate of flow of vapor from the generator and by and in accordance with changes in the static pressure of vapor in the generator.

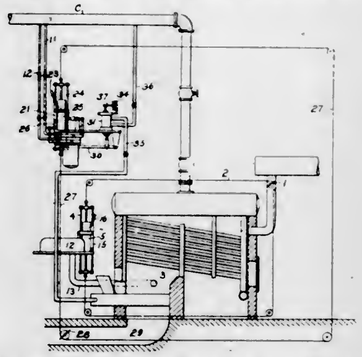
1,338,926. CONTROLLING COMBUSTION BY FLOW AND PRESSURE. JOHN M. HOPWOOD, Dormont, Pa. Filed Sept. 20, 1918. Serial No. 254,978. 4 Claims. (Cl. 236—14.)



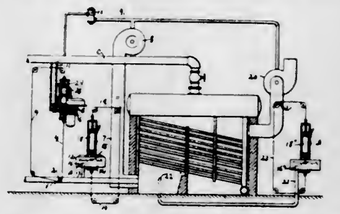
3. The combination of a plurality of generators of steam having furnaces with means controlled by and in accordance with the dynamic and static pressures of steam flowing by a common point from all the generators for regulating the supply of fuel to all of the furnaces of the generators and independent means for controlling the discharge of products of combustion from each of the furnaces controlled by and in accordance with the dynamic and static pressure of steam flowing from the respective generators.

1,338,927. CONTROLLING COMBUSTION BY FLOW AND PRESSURE. JOHN M. HOPWOOD, Dormont, Pa. Filed Sept. 20, 1918. Serial No. 254,979. 5 Claims. (Cl. 236—14.)

5. The combination of a generator of vapor having a furnace with means for controlling the discharge of gases from the furnace of the generator by and in accordance with the pressure of gases in the furnace and means for controlling the feed of fuel to the furnace by and in accordance with the dynamic and static pressure of the fluid flowing from the generator.

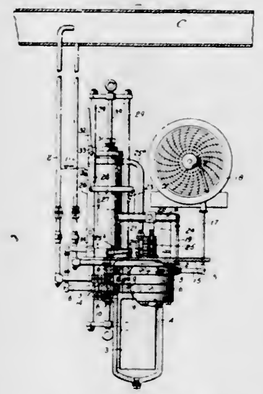


1,338,928. REGULATION AND APPARATUS THEREFOR. JOHN M. HOPWOOD, Dormont, Pa. Filed Apr. 21, 1919. Serial No. 291,780. 4 Claims. (Cl. 236—14.)



1. The method of regulating combustion in the furnace of a vapor generator utilizing a fluid fuel which consists in controlling the feed of the fuel by and in accordance with changes in the rate of flow of vapor from the generator and by and in accordance with the changes in the static pressure of the vapor in the generator and regulating the supply of air for combustion by and in accordance with changes in the quantity of fuel fed to the furnace.

1,338,929. REGULATING MECHANISM. JOHN M. HOPWOOD, Dormont, Pa. Filed Apr. 26, 1919. Serial No. 292,938. 6 Claims. (Cl. 236—25.)



4. A regulating or controlling mechanism having in combination two independently movable diaphragms, one

diaphragm operative by and in accordance with changes in the dynamic pressure of a stream of fluid under pressure, the second diaphragm operative by and in accordance with changes in the static pressure of such fluid, and mechanism operative by both diaphragms.

1,338,930. WASHBOARD. AARON HORTON, Detroit, Mich. Filed Sept. 21, 1918. Serial No. 255,147. 1 Claim. (Cl. 68—29.)



In a wash-board, a rubbing surface having an opening crossed by a grating, a shelf extending rearward from the lower edge of said opening for supporting a cake of soap, a follower head, a screw projecting rigidly therefrom to the rear, and means for guiding the head for movement over the shelf toward and from said grating, combined with a hood carried by the wash-board and inclosing said shelf and follower, a thimble secured through the rear wall of the hood and having an internal flange at its rear end, a tubular nut threaded on said screw and having a rib rotatably mounted inside said flange, and a hand wheel fast on the nut with its hub against the outside of said flange.

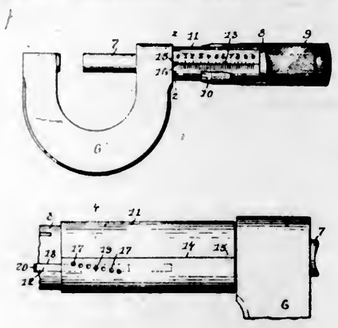
1,338,931. SWEAT-PAD FOR HORSE-COLLARS. ANDREW JANICKI, Milwaukee, Wis. Filed Mar. 2, 1920. Serial No. 362,658. 5 Claims. (Cl. 54—65.)



3. A device of the class described comprising a sweat pad adapted for engaging the neck of an animal and having a substantially rectangular opening therethrough, a cushion removably positioned in said opening of substantially the same thickness as the pad with the opposite sides of the cushion flush with the opposite faces of the pad when the cushion is in one position and transverse straps secured to the cushion detachably connected to the pad whereby the cushion is adapted to be retained partially withdrawn from the opening.

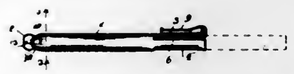
1,338,932. MICROMETER-GAGE. FERNANDO OSCAR JAQUES, Sr., Providence, R. I., assignor to The Central Tool Company, Cranston, R. I., a Corporation of Rhode Island. Filed June 16, 1919. Serial No. 304,517. 5 Claims. (Cl. 33—164.)

1. In a micrometer gage having a spindle, a barrel and a thimble over the barrel of an adjustable split reading sleeve surrounding the barrel and having on its front a longitudinal reading line and lines and numerals, indicating units of measurement, means on the front for se-



curing one end of the reading sleeve to the barrel and means on the back intermediate the barrel and the reading sleeve, to lock the reading sleeve in the adjusted position.

1,338,933. PENCIL-HOLDER. SAMUEL P. KAY, Rochester, N. Y., assignor of one-half to Annie K. Rownd and one-half to Arethusa Kay, Rochester, N. Y. Filed Aug. 18, 1919. Serial No. 318,283. 2 Claims. (Cl. 24—11.)



1. In a pencil holder, the combination of a tube, a series of spring lugs punched out of the wall of said tube and bent inwardly thereof, said lugs surrounding and forming yielding stops for the pencil point of the pencil held centrally in place in said holder thereby.

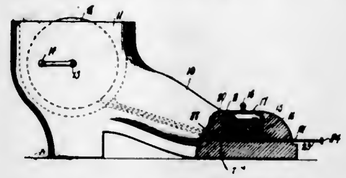
1,338,934. NON-SKID DEVICE. LEWIS L. KELLOGG, Denver, Colo. Filed Mar. 4, 1919. Serial No. 280,521. 2 Claims. (Cl. 152—16.)



1. An antiskid device including a plurality of transversely curved tread sections arranged in end to end relation and having their adjacent end portions bent upwardly, said tread sections being provided with pairs of arcuate incisions thereby forming pairs of flanges having their outer sides curved longitudinally for presenting rounded surfaces to the ground, said flanges being corrugated transversely, and means to secure said tread sections in position.

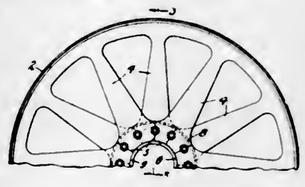
2. An antiskid device including a plurality of transversely curved tread sections arranged in annular formation, each tread section being provided with a pair of arcuate incisions thereby forming pairs of flanges having their outer sides curved longitudinally, said flanges being extended upwardly from said tread sections and corrugated transversely, and means to secure said tread sections in position.

1,338,935. COMBINED LINE-REEL AND MARKER OR CHALKER. JOHN H. KERR, Fort Mills, Corregidor, Philippine Islands. Filed Apr. 28, 1919. Serial No. 293,260. 2 Claims. (Cl. 33—87.)



1. In combination with a body having a recess therein and passages leading from each side of the recess and through which and the recess a flexible element may pass, of a block of chalk carried within the recess to engage the flexible element, a closure for closing the outer end of the recess and resilient means connected to the closure for releasably holding the same in a closed position and at the same time engage the block of chalk for forcing the same away from the closure as and for the purposes set forth.

1,338,936. WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1919. Serial No. 286,933. 12 Claims. (Cl. 21—69.)



1. A metal wheel made from a unitary rolled bar of T section and having its spokes an integral part of the rim, said spokes being separated from each other throughout the major longitudinal portion thereof and contacting with each other only at the hub.

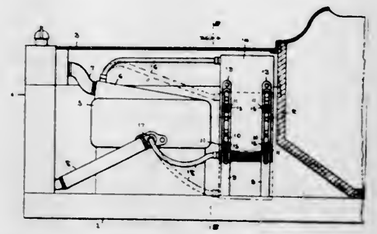
1,338,937. COMB-CLEANER. HAROLD LANFEAR, Amberg, Wis. Filed Oct. 15, 1918. Serial No. 258,137. 1 Claim. (Cl. 132—17.)



A comb cleaner, comprising a piece of board having an end portion reduced to form a handle, cleats at opposite ends of the board secured to one side thereof, a slide, a bolt adjustably connecting the slide to one of the cleats and passing through the cleats and slide and so engaging the cleat and slide as to prevent the said slide from tipping, toothed strips secured to the slide and the remote cleat, and strands passing back and forth between and attached to the said toothed strips.

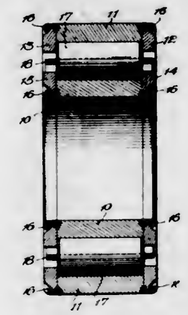
1,338,938. AUXILIARY DEVICE FOR GAS-ENGINES. JESSE D. LANGDON, Waterville, Wash. Filed June 27, 1916. Serial No. 106,177. 2 Claims. (Cl. 123—170.)

1. The combination with the water circulating means of an internal combustion engine including a water jacket and a hot water outlet and cool water inlet for said jacket, of a reservoir having flexible connections with said water outlet and inlet for the circulation of water



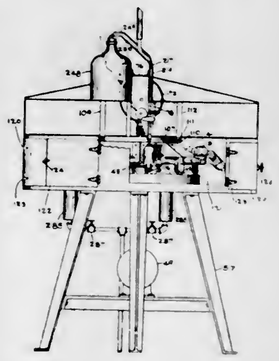
through said reservoir, and means for mounting said reservoir for vertical adjustment with respect to the water jacket.

1,338,939. ROLLER-BEARING. ARTHUR M. LAYCOCK, Kingston, Pa. Filed Mar. 13, 1919. Serial No. 282,348. 11 Claims. (Cl. 64—62.)



1. In a device of the class described the combination with inner and outer cylindrical members constituting the coöperating bearing surfaces of a roller bearing, of rollers between said members, flanges fitting against the ends of said members and projecting partly across the ends of said rollers, the said flanges being spot welded to said cylindrical members at a plurality of points.

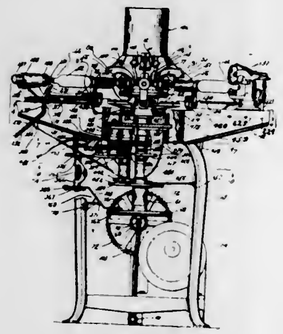
1,338,940. COATING APPARATUS. ERICK P. LINDAHL, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Nov. 1, 1918. Serial No. 260,699. 42 Claims. (Cl. 91—12.2.)



1. In a coating machine of the character described, the combination of a carrier, blank-supports on said carrier,

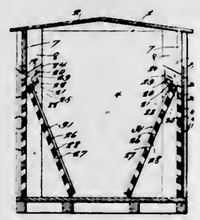
charging means for the blanks on said supports comprising a charging mouth, means for rotating said supports, means intermittently moving said carrier, means causing automatic approach and recession between said mouth and said respective blanks for charging said blanks, said last two named means arranged for alternate operations, and means causing cessation of rotation of the blank-support having thereon the blank being charged during the charging of said blank.

1,338,941. METHOD OF AND APPARATUS FOR MANUFACTURING GLASSWARE. ERICK P. LINDAHL, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Sept. 7, 1918. Serial No. 253,106. 52 Claims. (Cl. 49—7.)



5. In apparatus for manufacturing glassware of the character described, the combination of a carrier, blank-supports thereon, scoring means for the outer ends of the blanks supported by said blank-supports, heating means for said outer ends, and chilling means for said outer ends, said scoring means, said heating means and said chilling means positioned with relation to said carrier to cause coaction between said outer ends and said scoring means, said heating means and said chilling means in the order named.

1,338,942. CONVERTIBLE CAR. EMMET J. LOWRY, Dubuque, Iowa. Filed Dec. 27, 1919. Serial No. 347,659. 5 Claims. (Cl. 119—8.)



1. In a convertible car, the combination with a car frame including upper closed sides and doors centrally of the sides of the car, the sides of the car below the upper closed parts thereof having longitudinally arranged spaced slats, of adjustable slatted racks arranged on the inner portion of the car, and means for supporting the racks adjacent the inner parts of the slats of the car, whereby the slats of the racks may interlock between the slats of the car, or may be disposed in registration and parallelism with the slats of the car, or whereby the racks may be converged inwardly and downwardly toward each other.

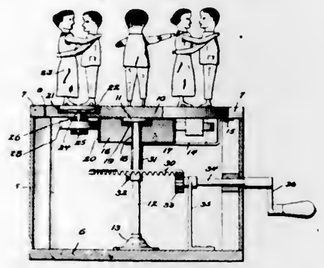
1,338,943. PUMP-PLUNGER. ALEXANDER S. MACKENZIE, Houston, Tex., assignor to Texas Oil Well Pump Company, Houston, Tex., an Association. Filed May 31, 1919. Serial No. 300,834. 7 Claims. (Cl. 103—63.)



1. In a pump, a plunger, a longitudinally divided sleeve thereon, oppositely beveled surfaces on both ends of said sleeve fitting on beveled surfaces on said plunger so that movement of said sleeve in either vertical direction will cause said sleeve to expand by frictional contact with said pump.

2. In a pump, a plunger, a central channel therein, branching ducts leading from said channels to a valve seat, a valve ring closing said channels, and means for discharging fluid through the upper part of said plunger and said valve for the purpose described.

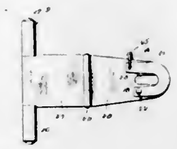
1,338,944. DANCING-FIGURE TOY. FRANK MAJEWSKI, Chicago, Ill. Filed Aug. 14, 1919. Serial No. 317,600. 5 Claims. (Cl. 46—40.)



1. A figure toy embodying a casing, a cover wall removably attached thereto, an angle bar connected to the cover wall, a relatively large central disk secured to the angle bar, a shaft journaled through said disk and supported at its lower end in said casing, the cover wall having a relatively large central opening therein, a rotatable table top received in said central opening and secured to the upper end of said shaft, the upper face of said table top having a plurality of circular sockets therein, disks received in said sockets, figures supported on said disks, a shaft journaled through each socket of said table top and fixedly connected to the small disk disposed therein, disks upon the lower projecting ends of said shafts meshing with the periphery of the main disk, and means for rotating the shaft.

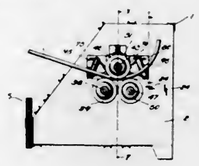
1,338,945. LOCK FOR SHIFT-LEVERS. RALPH J. MANLEY, Iowa City, Iowa. Filed Aug. 18, 1919. Serial No. 318,333. 1 Claim. (Cl. 70—128.)

A lock for automobile levers including an attaching plate, an enlongated locking arm formed from flat metal horizontally pivoted to said plate and having a longitudinal lever receiving slot extending out through its forward end and spaced from the sides of the same, a U-shaped shackle having long and short arms adapted to be arranged on opposite sides of said longitudinal slot and inwardly of the side edges of said locking arm, said long and short arms being joined by a curved connecting portion adapted to be extended across the forward end of said slot with one edge flush with the forward end of the locking arm, a pivot element connecting one end of said short



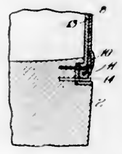
arm to said locking arm at one side of said longitudinal slot, the free end portion of the long arm of the shackle and the adjacent portion of said locking arm being provided with alined openings rearwardly of said lever receiving slot whereby a lock may be readily extended through said alined openings for locking the free end portion of the long arm of the shackle to the locking arm at a point spaced rearwardly of a lever when arranged in said slot.

1,338,946. BENDING-MACHINE. ALFRED M. MEYERS, Merriam, Kans., assignor to The Kansas City Structural Steel Company, Kansas City, Mo., a Corporation of Missouri. Filed Nov. 25, 1918. Serial No. 264,090. 6 Claims. (Cl. 153—56.)



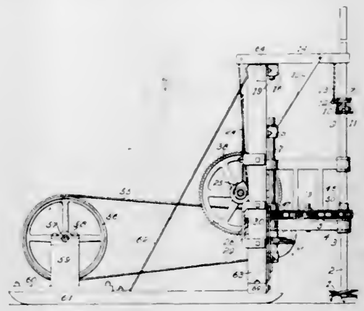
1. A bending machine comprising a base, vertically disposed bending rollers carried by the base, a supporting roller, a mounting for the supporting roller comprising a block, a depending shank on said block, angular in cross-section and having a transverse rectangular opening, guiding means for the said shank, a rock shaft, a cam on the rock shaft and within the rectangular opening, and means for effective rotative adjustment of said rock shaft.

1,338,947. WOODEN-SOLE WORKING-SHOE. GEORGE W. MILLER, Rochester, N. Y. Filed Aug. 23, 1918. Serial No. 251,053. 2 Claims. (Cl. 36—13.)



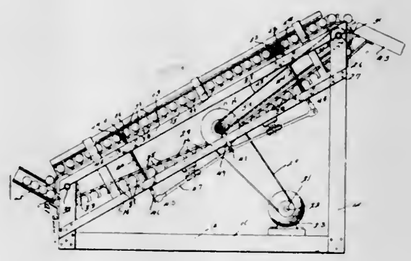
2. A shoe comprising a wooden sole having a groove formed in its upper edge, an upper having its lower edge turned inwardly to form a fold located in said groove, a counter within said upper having its lower edge folded into said groove about and under the fold in said upper, and means for securing said upper and counter in said groove.

1,338,948. MACHINE FOR FORMING POSTHOLES. JOHN G. MILLER, Waterloo, Iowa. Filed July 31, 1919. Serial No. 314,450. 5 Claims. (Cl. 255—19.)



1. In a device of the character described, a transportable structure, a laterally rocking frame mounted thereon, vertically-alined bearings in said frame, sleeves rotatable in said bearings having alined rectangular openings, a rectangular shaft slidably non-rotatably mounted in said sleeves, a boring-tool on said shaft, a winding-drum mounted rotatably on said structure, a cable connected between said winding-drum and said shaft, driving mechanism operatively connected to said shaft to rotate with said sleeves in said bearings, and a disconnectible connection between said driving mechanism and said winding-drum.

1,338,949. CAN-POLISHING MACHINE. OLIVER W. MOJONNIER, Oak Park, Ill. Filed Sept. 6, 1918. Serial No. 252,913. 1 Claim. (Cl. 141—7.)

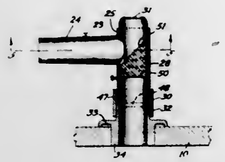


In a can polishing machine, the combination with a supporting frame having an inclined track, can conveying mechanism movable over the track, and upright guides in the frame; of standards mounted for vertical reciprocation in said guides at opposite sides of the track, eye bolts whose stems are adjustable vertically in the upper ends of the standards, threaded shanks passing horizontally through the eyes of said bolts, nuts on the shanks at opposite sides of such eyes, brush stocks carried by said shanks and facing toward the ends of the cans, and driving means for moving the conveying mechanism and simultaneously reciprocating said standards.

1,338,950. TONE-MODULATOR FOR PHONOGRAPHS. FREDERICK MYERS, New York, N. Y., assignor, by direct and mesne assignments, to Myers Phonograph Corporation, a Corporation of New York. Filed Dec. 12, 1918. Serial No. 266,384. 12 Claims. (Cl. 274—27.)

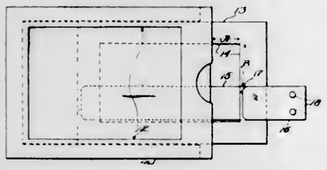
1. In a device of the class described, the combination with a phonograph having a hollow tone arm, a casing,

and a tubular vertical support for said arm extending up from said casing, of a rotary plug mounted within said support adjacent the outlet of said tone-arm and adapted



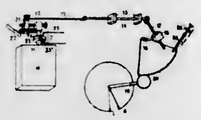
to control the sound passage through said support, and a lever pivoted on a fixed part of the machine for actuating said plug.

1,338,951. LOOSE-LEAF SKETCHING-PAD. ABRAM R. NADEL, Dorchester, Mass. Filed June 4, 1917. Serial No. 172,671. 4 Claims. (Cl. 33—64.)



1. A sketching pad, composed of a holder adapted to receive sheets for sketching and presenting a definite circumscribed working area of the sheet, and means slidably fitted in said holder for delimiting and segregating a selective portion of a field range in proximity to the working area of the sheet presented by said holder.

1,338,952. APPARATUS FOR REGULATING THE STRENGTH OF ELECTRIC CURRENTS FOR MEDICAL PURPOSES. MINOS NICOLÉTIS, Paris, France. Filed July 17, 1918. Serial No. 246,061. 5 Claims. (Cl. 219—35.)



1. Apparatus for regulating the strength of electric currents for medical purposes, comprising a circuit including electrodes to be applied to the body of a patient, a regulating resistance, and clock driven mechanism for automatically varying the resistance, substantially as described.

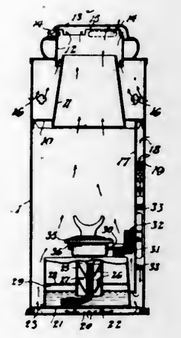
1,338,953. ATIFICIAL BAIT. ROBERT R. ODELL, Minneapolis, Minn. Filed Apr. 14, 1919. Serial No. 289,818. 1 Claim. (Cl. 43—46.)

An artificial bait comprising a hook-equipped body tapered in both directions from an intermediate point, said body, at its tapered head, having a centrally located groove that is curved in a vertical plane and extends to the nose of the bait, and having a forwardly projecting nose, and immediately below the plane of the undersur-



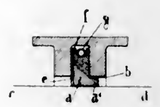
face of said nose, forwardly converging side grooves that meet and run out at a point rearward of the point of the nose of the said body, and the said body, at its nose or front end having means for attachment of a line thereto.

1,338,954. LAMP. ROBERT ALEXANDER OLDFIELD, Birmingham, England. Filed Jan. 23, 1919. Serial No. 272,762. 1 Claim. (Cl. 240—15.)



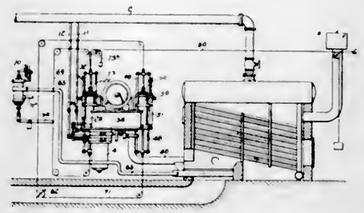
A lamp having an annular window of frosted glass encircling a smaller window of transparent glass and an opaque shutter adapted to be displaced to cover and uncover the transparent area.

1,338,955. CARBON-GLAND. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, and LOUIS MORTIMER DOUGLAS, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Filed July 19, 1919. Serial No. 312,053. 1 Claim. (Cl. 286—7.)



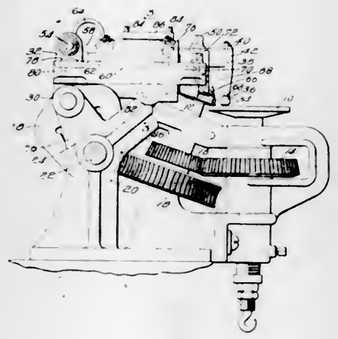
In carbon and like glands for rotating shafts comprising packing rings divided into segments each with an extension projecting toward the low pressure end of the shaft, providing on the high pressure side of the ring projections to prevent tilting of the segments and intervening spaces to allow passage of steam to the space around the outer periphery of the ring.

1,338,956. REGULATING COMBUSTION. THOMAS A. PEEBLES, Pittsburgh, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Filed Apr. 21, 1919. Serial No. 291,586. 25 Claims. (Cl. 110—54.)



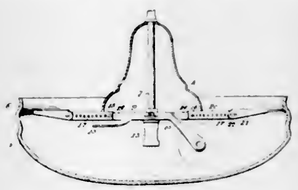
8. The combination with a combustion chamber, means for supplying air thereto and means for maintaining therein a pressure below atmospheric pressure and for automatically varying such pressure inversely with varying rates of combustion.

1,338,957. SOLE-FITTING MACHINE. FREDERICK H. PERRY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 2, 1918. Serial No. 215,157. 15 Claims. (Cl. 12—20.)



3. A machine for operating upon soles provided with a lip, having, in combination, an anvil to support the inside of the lip, a hammer arranged to act on the outside of the lip, a trimming knife coöperating with the anvil, and means to yieldingly actuate the hammer and positively actuate the knife.

1,338,958. LIGHT-BOWL HANGER. ARNOLD J. PETERSEN, Cedar Rapids, Iowa. Filed Sept. 19, 1918. Serial No. 254,746. 5 Claims. (Cl. 240—111.)



3. In a light-bowl hanger, a spider formed of sheet metal, and having radial arms terminating in flat, closely folded portions adapted to connect with extensions, and intermediate, flat arms with terminal holes, to serve as lamp supports.

1,338,959. ARTIFICIAL TOOTH. LEON L. POSTON, Council Bluffs, Iowa. Filed Apr. 28, 1917. Serial No. 165,135. 2 Claims. (Cl. 32—9.)



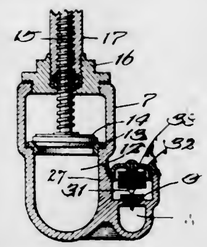
1. In an artificial tooth, a replaceable porcelain facing having a full base; inwardly projecting surfaces in said porcelain facing extending from above the biting edge to a point below the base; a socket of uniform cross section extending into said facing; a metal backing having a biting surface; surfaces outwardly formed on said backing adapted to fit the inwardly formed surfaces on said replaceable facing, and a pin extending from near the outermost portion of said outwardly extending surfaces on said metal backing and adapted to enter said socket in said replaceable facing.

1,338,960. CARBURETER. PHILIP POVLOTZKY, Chicago, Ill. Filed Sept. 11, 1917. Serial No. 190,767. 1 Claim. (Cl. 261—40.)



In a carbureter, a mixing chamber having an air inlet and a mixture outlet, and a partition in said chamber, the air inlet opening to one side of the partition and the mixture outlet being on the other side, said partition being composed of superposed plates having a plurality of straight parallel slits therethrough to form air passages from the air inlet to the mixture outlet, the opposite faces of the plates having ridged surfaces and the ridges of the respective plates interfitting and being parallel to the air passages, means for spacing the plates to produce a fuel passage between the ridged surfaces thereof, said passage being intersected by the air passages, and means for delivering fuel into the fuel passage.

1,338,961. HEATING SYSTEM. EDWARD P. RICH, Chicago, Ill. Filed Jan. 30, 1919. Serial No. 274,007. 6 Claims. (Cl. 237—9.)



1. A heating system having a radiator, an overhead source of steam supply, a main shut off valve interposed between them, a by pass leading around said valve, and a thermally controlled valve in said by pass subject to the action of the fluid on the supply side of said thermally controlled valve.

1,338,962. RULE. ERNESTO G. RIOS, Chicago, Ill. Filed May 24, 1919. Serial No. 299,395. 3 Claims. (Cl. 33—109.)

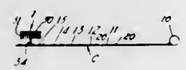
1. A ruler comprising a bar having wheels supporting its rear edge whereby its front edge is permitted to drag,

brackets mounted on the bar, and means supported by the brackets and including a shaft having the said wheels



mounted thereon whereby the said wheels are moved a predetermined distance when the said means is manually actuated, for sliding the said bar a predetermined distance.

1,338,963. GOLF GAME. CHARLES A. ROLFE, Redlands, Calif. Filed Apr. 22, 1918. Serial No. 230,016. 3 Claims. (Cl. 46—62.)



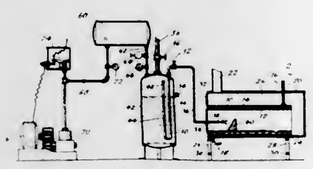
1. In combination, a flat flexible playing surface, a mechanical trapping means for a ball situated on said surface and being entirely above said surface, said trapping means being adapted to release a ball if driven therein with a force exceeding a predetermined degree, markings on said surface surrounding the trapping means and delineating objective surfaces into which a ball may be rolled, and markings at differently spaced points from said trapping means to indicate "tee" positions for a ball.

1,338,964. SUPPORT FOR MULTIGRAPH-SEGMENTS. MARTIN P. ROLLINS, Cherrydale, Va. Filed Aug. 5, 1919. Serial No. 315,507. 8 Claims. (Cl. 276—1.)



2. A support for multigraph segments comprising a base provided with an anchor member having an overhanging shoulder and cleats in spaced relation to said anchor member.

1,338,965. HEATING APPARATUS. JOHN RYCKMAN, Minneapolis, Minn. Filed Apr. 6, 1918. Serial No. 227,081. 2 Claims. (Cl. 158—36.)

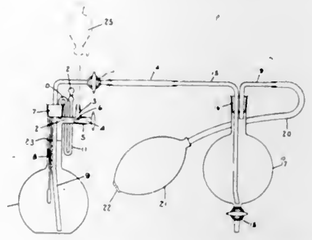


1. A heating apparatus comprising a fuel oil tank, a compressed air tank, a pipe connecting said air tank to the top of said oil tank, an air compressor connected with said air tank, an electric motor operatively connected with said air compressor, a regulator for switching on and off the supply of current to said motor according to the pressure on said air tank, a burner and means for delivering oil and air from said oil tank through said burner in the form of mist.

1,338,966. MANUFACTURING SOLDER. EUGENE EMIL PIERRE JEAN PRUDENT SÉVILLE JANSEN DE ST. LAURENT, Twickenham, England, assignor to The Aluminum Solder Co., Limited, a Company of Great Britain. Filed Sept. 22, 1916. Serial No. 121,611. Renewed Nov. 11, 1919. Serial No. 337,332. 4 Claims. (Cl. 75—1.)

1. The method of making solder which consists in lining suitable crucibles with aluminum oxid and carbon, then melting separately in such crucibles zinc and tin, then pouring molten zinc from one crucible and molten tin from another crucible into a third crucible treated as above set forth, then stirring the mixture in said third crucible and then pouring the same into molds.

1,338,967. APPARATUS FOR CONDUCTING EXPERIMENTS. RECEL W. BENNETT, Indianapolis, Ind., and ELMER M. JONES, Adrian, Mich.; said Jones assignor to said Bennett. Filed Oct. 17, 1919. Serial No. 331,319. 8 Claims. (Cl. 23—3.)



1. Apparatus for conducting experiments comprising a flask, a branched side tube extending therefrom, a stopper in one branch of said side tube, a tube leading into said flask, and a manometer connected to said flask.

1,338,968. HANDLE FOR VARIOUS ARTICLES. MERLE E. BISHOP, Heyworth, Ill. Filed Feb. 4, 1920. Serial No. 356,132. 3 Claims. (Cl. 16—173.)

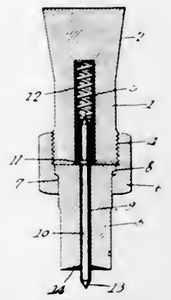


3. In a handle as set forth, a rod, a handle thereon, comprising an interior asbestos filler in surrounding cooperative engagement with the rod, said rod having its end protruding beyond them into the filler, a cork coating in surrounding relation to the filler and overlying the ends thereof in engagement with the ends of the rod, means on the ends of the rod cooperatively engaging the coating to assist in holding the handle in place, and pins extending transversely of the rod and the filler and projecting into the cork coating to prevent relative rotative movement of the filler and the coating with relation to each other and respectively with the rod, and acting to prevent longitudinal movement of the filler relative to the rod prior to applying the coating.

1,338,969. PUNCH. PETER W. BRITTS and BANCROFT B. BRITTS, Portland, Oreg. Filed Feb. 24, 1919. Serial No. 278,867. 1 Claim. (Cl. 164—124.)

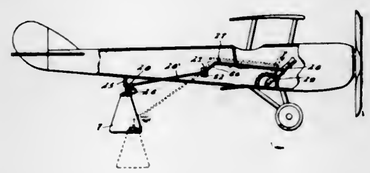
A device of the class described including a plunger having an axial recess formed therein, a wall formed at one end of the axial recess, a stem mounted for axial movement within the recess, the opposed terminals of the stem

being pointed, a collar formed on the stem between its pointed terminals, said collar adapted to engage the inner face of the punch member to thereby limit the outward movement of the stem, a helical spring mounted within the recess and surrounding that portion of the stem that is positioned within the said recess thereby



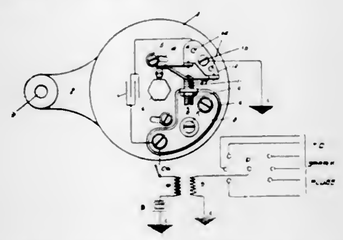
axially alining the spring in spaced relation to the side wall of the axial recess, said spring having one terminal engaging the collar and the opposed terminal engaging the end wall of the axial recess to thereby normally project the outer end of the stem beyond the operative face of the punch member.

1,338,970. AERIAL-MAIL EXCHANGE. WILLIAM H. BURTON and CLAUD J. WILKERSON, East St. Louis, Ill. Filed Feb. 1, 1919. Serial No. 274,435. 6 Claims. (Cl. 258—1.)



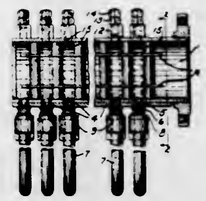
1. The combination with an aircraft, of a mail catching and delivering arm pivotally attached thereto beneath the fuselage, a spring detent for holding said arm in bag holding position, a rock shaft to which said arm is fastened, and a manually operable lever for turning said rock shaft.

1,338,971. CIRCUIT-BREAKER. IVAR W. BROEGGER, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Apr. 16, 1917. Serial No. 162,479. 14 Claims. (Cl. 200—30.)



3. A circuit breaker having movable and relatively stationary members and means for periodically separating the same, said movable member comprising a flexible arm made up of two normally parallel springs having one end of each fastened to a rigid support, a brace member connecting the free ends of said springs and a contact attached to one of said springs, the arrangement of said springs, spring supports and brace member being such as to bring the center of gravity of the movable member near a vertical line passing through one of the supports whereby high periodicity of the movable member is obtained.

1,338,972. SUPERHEATER-HEADER. BENJAMIN BRIDBO, New York, N. Y., assignor to Locomotive Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 16, 1918. Serial No. 254,306. 5 Claims. (Cl. 285—25.)



1. In apparatus of the class described, the combination of a header; a superheater element; means to hold said element in engagement with said header, said means exerting external pressure on opposite walls of said header; an internal means resisting such pressure.

1,338,973. PUZZLE-RING AND BRACELET, &c. ROBERT BROWN, Montrose, Colo. Filed Nov. 28, 1919. Serial No. 341,031. 1 Claim. (Cl. 46—41.)

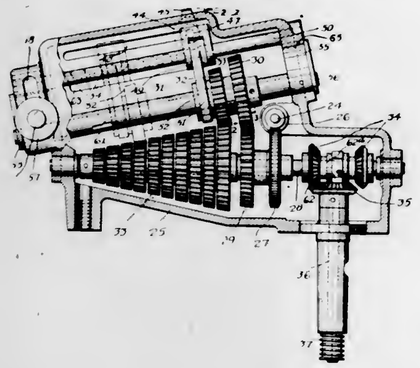


A device of the class described comprising a chain of four links, the outer links having relatively narrow offset portions, and the inner links having relatively wide offset portions, the outer faces adjacent opposite ends of the narrow offset portion of the outer links having channel grooves, the portions of the corresponding links adjacent the grooves having surface humps, the inner links having a channel groove formed in the surface thereof adjacent each end of the wide offset portions, one of said inner links having humps formed on the wide offset portion thereof below the channel grooves, and the other link having humps formed on the wide offset portion thereof above the channel grooves, the links interlocked to assume ring form having the hump portions overlying the surface grooves to prevent accidental relative movement of the links.

1,338,974. CHANGE-SPEED GEARING. WORTHY C. BUCKNAM, Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1918. Serial No. 251,062. 2 Claims. (Cl. 74—58.)

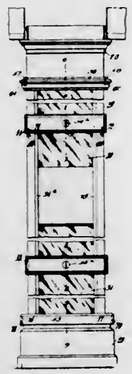
1. A change speed gearing comprising a cone of gears, a shaft paralleling the side of the cone, a guide rod parallel with said shaft, a gear slidable on the shaft lengthwise of the cone, an eccentric support for the shaft, a shifter member mounted slidably on said rod and having a handle, another shifter member connected with the

slidable gear and mounted for sliding and pivotal movement on said rod in position to be moved lengthwise there-



on by the first shifter member, a projection on the slidable and tiltable shifter member, and means affording a series of locking-notches to coöperate with said projection.

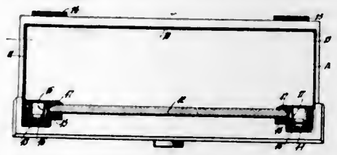
1,338,975. MAIL-CHUTE. FREDERICK B. COOK, New York, N. Y. Filed July 20, 1916. Serial No. 110,273. 14 Claims. (Cl. 193—31.)



1. In a mail chute, a body portion provided with jambs having openings in their outer faces, a panel provided on its inner face with hooks adapted to enter said openings, said hooks and openings being concealed by the engagement of the faces of said jambs and panel, said panel being slidable lengthwise of the body portion to lock the hooks within said openings, or release the hooks from said openings, and means for hingedly supporting the panel when the hooks have been disengaged from said openings, the body portion and panel having converging resilient walls abutting to form a flush joint, when the panel is locked in closed position.

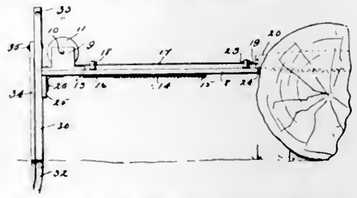
1,338,976. MAIL-CHUTE. FREDERICK B. COOK, New York, N. Y. Filed May 15, 1915. Serial No. 28,347. Renewed Dec. 8, 1917. Serial No. 206,328. 14 Claims. (Cl. 193—31.)

11. A mail chute comprising a body section having an opening at the front and rearwardly-converging surfaces at the sides of said opening, and a front panel for closing said opening, having forwardly-converging side sur-



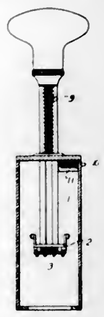
faces, the rear portions of which engage said rearwardly-converging surfaces of the body section.

1,338,977. TIMBER-CUTTING MACHINE. JOHN R. DAVENPORT, Hoxie, Ark. Filed Apr. 4, 1919. Serial No. 287,610. 3 Claims. (Cl. 143—62.)



1. A timber cutting machine comprising a body portion, a saw, an axle mounted upon said body portion, a drum mounted upon said axle, a cable connected to said drum and said saw, springs secured to said body portion and a pair of cables connected to said springs and wound over said axle, whereby said cables are wound upon the axle when the first named cable is unwound from the drum.

1,338,978. STAMP-AFFIXING MACHINE. WILLIAM JOSEPH DAVIS, Bush Hill Park, England. Filed Apr. 2, 1918. Serial No. 226,275. 2 Claims. (Cl. 216—2.)

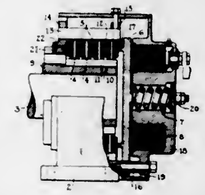


1. Stamp affixing and canceling machines having a spring controlled pad or plate hinged to the plunger head and provided with an opening or aperture for receiving and holding flanged type, and a spring catch adapted to hold the plunger in its almost fully depressed position during the type setting operation and to be automatically released upon further slight depression of the plunger when the type setting operation is completed, substantially as and for the purpose specified.

1,338,979. MANUFACTURE OF ACETIC ANHYDRID. HENRY DREYFUS, London, England. Filed Feb. 4, 1919. Serial No. 275,005. 6 Claims. (Cl. 23—24.)

1. In a process for the manufacture of acetic anhydrid wherein gaseous sulfuric anhydrid is brought into a reaction mixture of low temperature, containing a dry acetate and acetic anhydrid, the step of introducing the gaseous sulfuric anhydrid in admixture with an indifferent gaseous diluent into the reaction mixture, whereby the gaseous sulfuric anhydrid can be cooled down to low temperatures for the reaction.

1,338,980. ELECTROMAGNETICALLY-CONTROLLED BRAKE. BERNARD E. FERNOW, Jr., Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 14, 1917. Serial No. 154,821. 5 Claims. (Cl. 74—70.)



3. In an electromagnetically controlled brake or the like, in combination, a casing, an electromagnet fixed thereto, a plurality of friction disks mounted within said casing, an armature member for said electromagnet, a spring biasing said armature member away from said electromagnet and against said disks for causing forcible engagement of the latter, and an adjustable stop member for said disks movable to force the same toward said electromagnet for varying the play of said armature relative thereto and restoring the normal tension of said spring.

1,338,981. DEPTH-GAGE. THOMAS MCCHEYNE GUNN, New London, Conn., assignor to Electric Boat Company, a Corporation of New Jersey. Filed July 7, 1916. Serial No. 107,917. 5 Claims. (Cl. 73—31.)

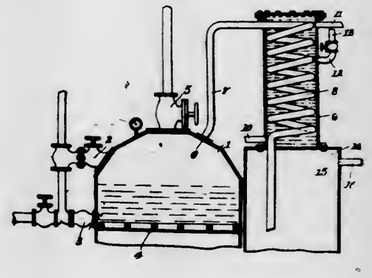


1. In a depth gage an elongated chamber for the reception of fluid, said chamber comprising one wall curved to provide a gradually diminishing cross-sectional area longitudinally of the chamber and another of said walls being plane and having a transparent portion and a substantially evenly graduated scale carried by said chamber adjacent said transparent portion, said chamber having transverse partitions at intervals longitudinally thereof with passages therethrough allowing the passage of the liquid from one part of the chamber to another.

1,338,982. COMPOSITE MOTOR-FUEL. ALBERT HAYES, New York, N. Y., assignor to Arthur F. Ray, Woburn, Mass. Filed Sept. 19, 1919. Serial No. 324,920. 4 Claims. (Cl. 44—8.)

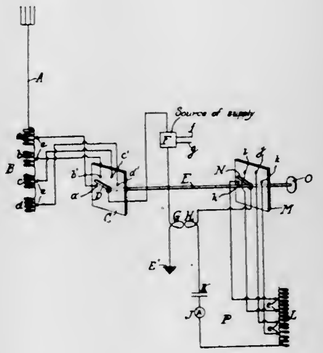
1. A motor fuel composed of alcohol, ether and water in which the amount of water exceeds the amount of ether.

1,338,983. METHOD OF DISTILLING. ALBERT HAYES, New York, N. Y., assignor to Arthur F. Ray, Woburn, Mass. Filed Sept. 19, 1919. Serial No. 324,921. 2 Claims. (Cl. 44—8.)



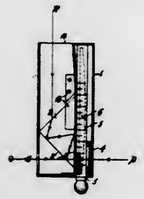
1. The method of producing an alcohol carrying liquid adapted for use as a motor fuel which consists in distilling alcohol carrying material and adding ether to the vapors during the process of condensation.

1,338,984. COMBINED WAVE-CHANGER AND WAVE-METER. GUY HILL, Washington, D. C. Filed Oct. 7, 1918. Serial No. 257,182. 2 Claims. (Cl. 250—39.)



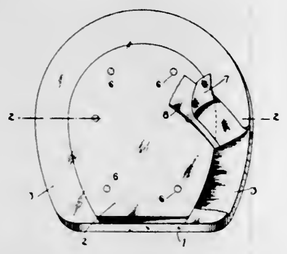
1. In a radio transmitting set, a unitary structure for simultaneously changing and automatically measuring wave lengths, comprising in combination with an antenna and variable loading inductance, of a wavemeter built into the said transmitting set and forming an integral part of the same, said wavemeter being coupled to the antenna and including a variable inductance, a wave changing switch for controlling the antenna loading inductance, a wavemeter switch for controlling the variable wavemeter inductance, and common means for simultaneously actuating both said switches for adjusting the loading inductance and the wavemeter inductance whereby the wavemeter circuit is automatically brought into resonance for the desired wave length when the antenna is tuned to the same wave length.

1,338,985. RANGE-FINDER OR TELEMETER. CHARLES HYMANS, Cambridge, England. Filed Mar. 7, 1916. Serial No. 82,586. 3 Claims. (Cl. 88—2.4.)



1. A range finder or telemeter comprising a case, a variable prism within said case, consisting of concave and convex lenses of equal but opposite power, a slide carrying one of said lenses mounted in said case and provided on its upper side with equally spaced divisions, and a right-angled isosceles prism silvered on its hypotenuse and so mounted in the case with respect to the walls of the latter that the image of the range-object seen by the user of the instrument is that obtained by double reflection within the prism, all reflections resulting from the direct reflection off the hypotenuse being cut off by the walls of the case, substantially as described.

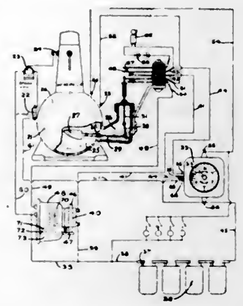
1,338,986. HOOF-PROTECTOR. WILLIAM J. KENT, Brooklyn, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Sept. 10, 1918. Serial No. 253,354. 5 Claims. (Cl. 168—26.)



1. A hoof protector embodying a body member of yieldable material shaped to cover the bottom of the horse's hoof, a metal shield plate secured to the ground face of said body member of less area than the body member thereby providing a depressed margin of yieldable material for the reception of the horseshoe nails, and a filler of yieldable material secured upon said depressed margin so that the abutting edges of the shield plate and filler may be engaged by the shoe.

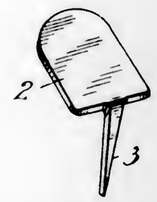
1,338,987. SYSTEM OF ELECTRICAL GENERATION AND CONTROL. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 18, 1916. Serial No. 137,594. 7 Claims. (Cl. 290—35.)

1. In a device of the character described, the combination with an engine and lubricant supply provisions therefor; of an electric starting device therefor, operable as a motor for starting purposes; a storage battery electrically connected with said starting device; and means for breaking the electrical connections between the battery and the starting device, when the lubricant supply reaches a predetermined low point, thereby entirely preventing the operation of the starting device as a motor for starting purposes, said means including a normally



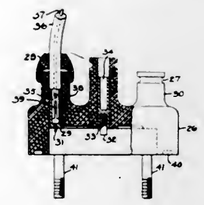
closed switch connected directly in the circuit between the starting device and battery, and means controlled by the lubricant level for opening said switch.

1,338,988. THUMB-TACK. YOKICHI KINOSHITA, Boston, Mass. Filed Feb. 24, 1919. Serial No. 278,587. 1 Claim. (Cl. 85—16.)



A thumb tack comprising a stamping from sheet metal in the form of a head and a tapering pointed tongue extending from one edge thereof, said tongue being bent downwardly from the central portion of the edge and at substantially right angles to said head and provided with a flat surface disposed toward said head substantially as and for the purpose set forth.

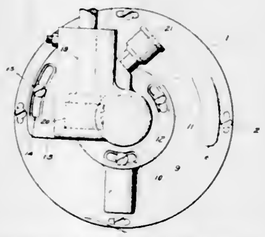
1,338,989. COMBINED DISTRIBUTER AND CONNECTOR. GEORGE L. LANG, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Original application filed Oct. 28, 1914, Serial No. 869,017. Divided and this application filed Sept. 25, 1917. Serial No. 193,121. 4 Claims. (Cl. 200—24.)



1. In a combination of the character described, a distributer block having the following instrumentalities, an annular groove around the base of said block and spaced away from the inner and outer edges, hollow projections extending above the surface of said block and integral therewith, each of said projections having an annular groove near the top thereof and electrodes mounted within said block and extending only partially upward within

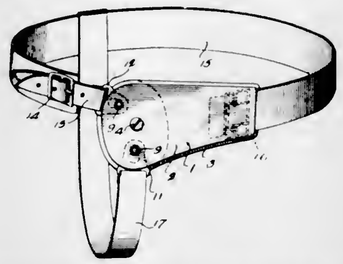
said hollow projections and terminating in pin like points within the hollow portion of said block; and connectors having electrical cables attached thereto, said connectors and cables adapted to extend into said hollow projections to connect with said electrodes and flexible insulated caps adapted to fit around said cables and engage said grooves for the purpose described.

1,338,990. COMBINED GENERATOR AND TIMER-DISTRIBUTER BEARING-HEAD. ALBION D. T. LIBBY, East Orange, and HENRY E. BÖRGER, Newark, N. J., assignors to Splitdorf Electrical Company, Newark, N. J. Filed Mar. 22, 1917. Serial No. 156,669. 4 Claims. (Cl. 123—149.)



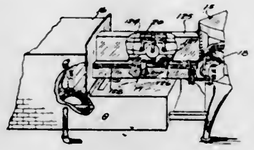
1. In combination, a generator of electric current having an armature shaft extension and a driving member thereon, a bearing head for the generator having a projecting hub and a bearing for said armature shaft therein, a housing having an annular flange fitting around said hub and an extending flange to engage a part of the outer surface of said bearing head, a timer distributer driving element mounted within said housing and adapted to cooperate with the driving member on the shaft extension, coacting means between the housing and bearing head consisting of slots in said flanges and screws passing therethrough into said bearing head for adjusting the angular position of the housing and driving element on said bearing head and for allowing said housing and driving element to be quickly removed from said bearing head.

1,338,991. TRUSS. BENJAMIN LLOID, Corvallis, Idaho. Filed Mar. 3, 1919. Serial No. 280,439. 2 Claims. (Cl. 128—107.)



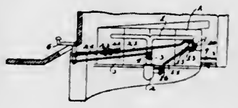
1. In a hernia truss, a pad carrying plate structure comprising a metal plate shaped to fit the wearer's body, a relatively thin metal plate at one side of said first metal plate, a sheet of soft leather carried by said relatively thin metal plate for engagement with the wearer's body, said plate structure having one end enlarged and provided with a central aperture, adapted to receive a screw, a pad engaging the outer face of said sheet of soft leather and detachably connected to said metal plate, a buckle carried by the end of the plate remote from said enlarged end, a body encircling band connected to said buckle, a pair of pins carried by the enlarged end of said first named metal plate, a leg strap connected to said body encircling band, and buckles carried by the free ends of said body encircling band and said leg strap for engagement with said pins.

1,338,992. MECHANISM FOR TRANSFERRING WARE TO LEERS. CLYDE R. LOTT, Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, Toledo, Ohio, a Corporation of Ohio. Original application filed Sept. 27, 1909, Serial No. 519,678. Divided and this application filed Oct. 14, 1918. Serial No. 257,930. 27 Claims. (Cl. 49—47.)



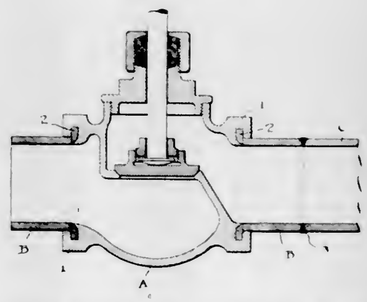
1. The combination with a glass forming machine, of a leer, transfer apparatus for automatically taking articles from said machine and conveying them into the leer, and means providing a closed passageway through which the articles are conveyed from the machine into the leer without exposure to the outside atmosphere.

1,338,993. DECARBONIZER ATTACHMENT FOR ENGINES. GRANT MCNEEL, North Platte, Nebr. Filed Sept. 26, 1918. Serial No. 255,773. 1 Claim. (Cl. 123—25.)



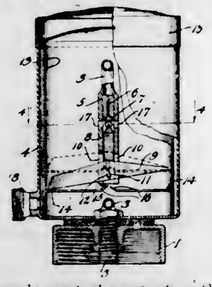
The combination with a water cooled internal combustion engine, including its carbureter and throttle valve, of a water conduit leading from the water jacket of the engine to the air intake of the carbureter, a control valve for the conduit, a throttle control lever, a pair of rods slidably engaging each other and operatively connected to the control valve and throttle control lever, respectively, stop means for limiting the sliding movements of the rods and causing the control valve to open after the throttle lever has been moved a predetermined amount, and a rod connecting the throttle control lever to the throttle, the stop means associated with the pair of slidable rods being arranged so that the control valve is not moved until after the throttle valve has been opened a predetermined amount.

1,338,994. PIPING SYSTEM. SAMUEL W. MILLER, Rochester, N. Y. Filed Dec. 29, 1919. Serial No. 348,139. 4 Claims. (Cl. 251—156.)



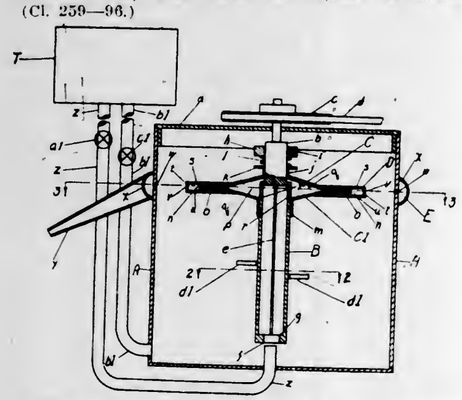
1. In a piping system, the combination of a cast body, a projecting sleeve cast therein, and a tubular member fusion welded to the end of said sleeve.

1,338,995. LIQUID-SUPPLY-CONTROL APPARATUS. GEORGE MOORE, Joplin, Mo. Filed May 17, 1917. Serial No. 169,370. 12 Claims. (Cl. 137—104.)



11. In liquid supply control apparatus, the combination with a float chamber, of a supply pipe extending into the chamber and having a discharge opening downwardly, the pipe being formed with a valve seat, and having an enlargement extending below the valve seat and provided with a lateral discharge opening and slots below such discharge opening, a lever extending through the slots, a pivot pin for the lever, the lever being formed with a notch in which is engaged the pivot pin for pivotally supporting the lever while leaving the lever free for bodily movement along the slots, a valve between the lever and the valve seat adapted to be moved to the seat with bodily movement of the lever, the lever having free end portions outstanding from the sides of the enlarged portion of the pipe, and a float in the float chamber adapted to engage the opposite portions of the lever for bodily shifting the lever with the rising of the liquid level in the float chamber.

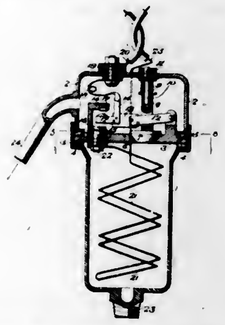
1,338,996. METHOD OF AND APPARATUS FOR EMULSIFICATION. COLLEN E. NORCROSS, West Chester, Pa. Filed Nov. 12, 1919. Serial No. 337,599. 40 Claims. (Cl. 259—96.)



1. The method of bringing materials into suspension or emulsion, which consists in subjecting the materials in the presence of each other to rotation at high speed, delivering the material under the resultant centrifugal force through an extremely narrow annular passage, and impacting the annular jet of material upon a wall rotating with said material.

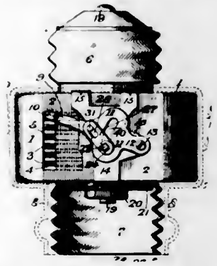
1,338,997. ELECTRICALLY-OPERATED FLUID-HEATER. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 11, 1919. Serial No. 316,553. 4 Claims. (Cl. 219—39.)

3. In a fluid heater, a fluid receiving chamber, a valve therein at the end remote from the entrance of the fluid and which is adapted to be opened by the inflow of the fluid into said chamber, a diaphragm in said chamber, a lever mounted on said diaphragm and connected with the stem of said valve, an electric contact adapted to be carried by said lever and movable therewith, an opposite contact carried by said diaphragm, electrodes connected



with said contacts, a heating element in said chamber, the same being connected with the adjacent electrode, and an electrical conductor connected with the other electrode, and an electrical connection between the movable contact and the last named electrode.

1,338,998. CURRENT-REGULATING PLUG AND SOCKET. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1920. Serial No. 354,832. 7 Claims. (Cl. 219—49.)

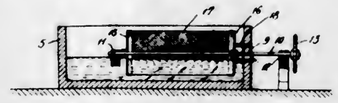


1. In an electric regulating plug and socket, the combination of a body formed of non-conducting material and having a flat front face,—a mass of resistance material within said body,—a plurality of contact plates which divide the resistance material into layers and are formed with contact lugs,—a bracket plate secured to the flat front face of said body and extending beneath the base of the body,—a contact arm at its inner end pivoted to said bracket plate, at its outer end provided with a contact finger, and intermediately of its length formed with a segmental slot through which a hollow sleeve extends,—a hollow sleeve rotatable upon a stud pin extending outwardly from the bracket plate, to which sleeve the inner end of a crank is fixedly connected,—a crank connected to said sleeve and having a slot in its outer end,—a pin extending outwardly from the contact arm and entered within said slot,—and a thumb knob fitted upon the exterior of said hollow sleeve and extending exteriorly of said body,—whereby upon the turning of the thumb knob and consequent rotary movement of the crank the contact arm is swung upon its pivot.

1,338,999. ROTATING-SCREEN FILTER. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Oct. 5, 1918. Serial No. 256,971. 14 Claims. (Cl. 210—199.)

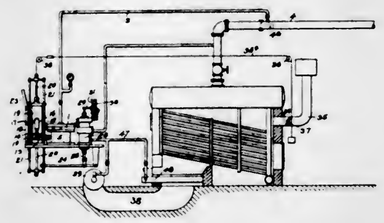
1. A liquid screening apparatus comprising a receptacle for the liquid to be screened, said receptacle having an opening in one wall thereof; a rotatable screen having a

hollow foraminated cylindrical member arranged to permit a flow of liquor from said receptacle through said member into the interior thereof and out one end thereof, and means communicating with the interior of said member through one end thereof and extending toward but ending short of said opening and separated from said wall



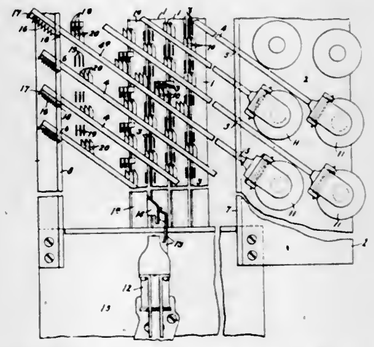
by a narrow space for directing the discharge of liquor from the interior of said member through the opening, the space between the end of said means and the inner surface of said wall being in the operation of the apparatus so filled with solid matter as to form a frictional contact area between said means and said wall in the form of a relatively narrow ring.

1,339,000. METHOD OF AND APPARATUS FOR REGULATING COMBUSTION. THOMAS A. PEEBLES, Pittsburgh, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Filed Aug. 13, 1918. Serial No. 249,654. 12 Claims. (Cl. 110—54.)



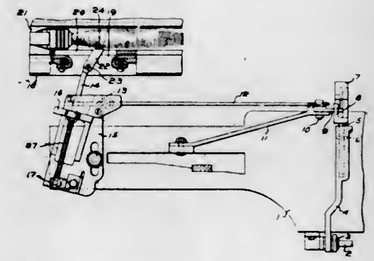
1. As an improvement in the art of generating vapor, the method herein described which consists in supplying fuel to the fire box of the generator, supplying air for combustion, conducting away the products of combustion, and adjusting one of the foregoing operations by and in accordance with changes in the static pressure of the vapor and by and in accordance with changes in pressure resulting from the static pressure in a boiler diminished by and in accordance with changes in the rate of flow of vapor from the generator.

1,339,001. CROSS-BAR SWITCH. JOHN NEWBERRY REYNOLDS, Greenwich, Conn., and JOHN F. HEARN, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1917. Serial No. 161,165. 5 Claims. (Cl. 179—27.5.)



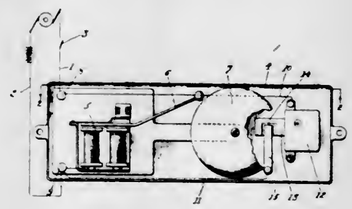
1. In a switch, a rotatable contact carrying bar, a second bar disposed transversely to said bar, contacts on said second bar, means for initially rotating said first bar to render its contacts selectable, and means for giving a simple longitudinal displacement to said second bar after rotation of the first bar to cause its contacts to engage the contacts carried on said rotatable bar.

1,339,002. FEELER MECHANISM FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 25, 1919. Serial No. 326,129. 10 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, a feeler arm that is mounted for movement longitudinally of the shuttle when the filling is substantially exhausted and is provided with a feeler tip having a smooth end which engages a surface within the shuttle on each detecting beat, a feeler point that has a rounded end adapted to enter between coils of the filling without cutting effect and that is yieldingly mounted upon the feeler tip to extend beyond the smooth end thereof, said feeler point being inclined in the general direction of longitudinal movement of the feeler arm which takes place when the filling is substantially exhausted, and by engagement with a surface in the shuttle prevents movement of the feeler arm longitudinally of the shuttle until the filling is substantially exhausted.

1,339,003. CIRCUIT-LOCK. WILLIAM F. ROTERMUND, Seattle, Wash. Filed Feb. 17, 1919. Serial No. 277,483. 1 Claim. (Cl. 200—44.)



A device of the character described, comprising a lock including a stationary casing and a reciprocatory bolt having electrical connection therewith, said bolt being provided in one longitudinal edge with a recess formed therein, a stationary contact bar having one end thereof permanently arranged within the recess, said recess having a substantially greater width than the contact bar so that the bolt may break electrical contact therewith when in one position, said bolt electrically contacting with the contact bar when shifted to the active position, and a circuit having one end thereof electrically connected with the casing and its opposite end with the contact bar.

1,339,004. HOOK. CHARLES D. SCHMIDT, Woodhaven, N. Y. Filed June 20, 1919. Serial No. 305,690. 6 Claims. (Cl. 24—241.)

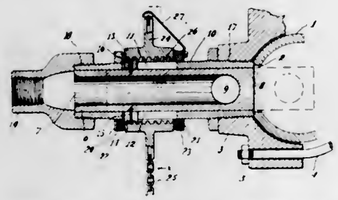
3. The combinatioln with a link member, of a hook pivoted thereto and having an S-shaped opening for at-

tachment to another member, and means whereby pivotal movement of said hook on said link will cause an integral



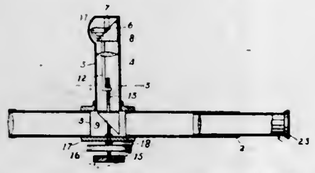
portion of said link to extend over the inner edge of said S-shaped opening to prevent escape of said attached member.

1,339,005. DUST-VALVE. SAMUEL J. SPEICHER, Pittsburgh, Pa. Filed Dec. 20, 1918. Serial No. 267,611. 4 Claims. (Cl. 299—73.)



1. In combination, a pipe line, a valve casing open at both ends and in direct communication at one end with said pipe line, an air line communicating with the other end of said casing, a tubular valve slidable in the casing and having its end adjacent to the air line open, the other end of the valve being closed, said valve being provided adjacent to its closed end with an opening directed substantially parallel to the pipe line, and means for projecting the closed end portion of the valve into and withdrawing it from said pipe line, said means holding the valve against rotary movement so as to maintain the outlet opening thereof in substantial parallelism with the pipe line.

1,339,006. AEROPLANE HEIGHT-INDICATOR. LAWRENCE B. SPERRY, Brooklyn, N. Y., assignor to The Lawrence Sperry Aircraft Company, Inc., New York, N. Y., a Corporation of New York. Filed July 13, 1917. Serial No. 180,268. 7 Claims. (Cl. 88—2.7.)



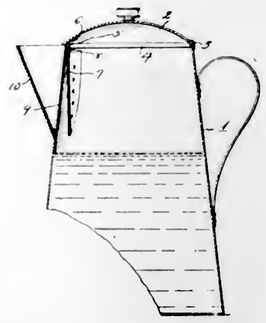
1. An instrument for measuring the height of aeroplanes, comprising means for observing the horizon on one side; means for observing the horizon on the opposite side; means for alining the images of both of said horizons, and means connected with said alining means for indicating the height of the aeroplane.

1,339,007. LABEL. SAMUEL F. STEIN, Williamsport, Pa. Filed Aug. 21, 1919. Serial No. 319,854. 3 Claims. (Cl. 40—2.)



3. A label composed of a piece of flexible material on which is printed the desired matter in simulation of embroidery, the edges or outlines of the design being serrated and the face of the design having parallel straight lines across it.

1,339,008. TEAPOT-STRAINER. DEBORAH V. STRONG, Akron, Ind. Filed Mar. 9, 1920. Serial No. 364,567. 3 Claims. (Cl. 53—3.)

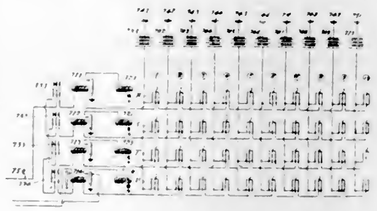


1. The combination with a coffee pot having a hinged cover thereon, and a spout adjacent the upper end thereof, of a strainer hingedly connected to the cover at a point opposite the hinging point of said cover, said strainer when the pot is tilted being so positioned as to register with the spout opening and strain the contents of the pot as it is poured through the spout.

1,339,009. ALLOY. GEORGE L. VAN ALLEN, Prince Bay, N. Y., assignor to Baker & Company, Inc., a Corporation of New Jersey. Filed Sept. 21, 1918. Serial No. 255,070. 4 Claims. (Cl. 75—1.)

4. An alloy containing 64% of gold, 18½% of silver, 9% of copper, 8% of palladium and ¼% of aluminum.

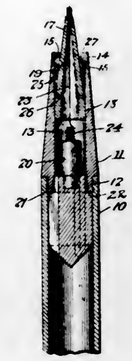
1,339,010. TELEPHONE-EXCHANGE SYSTEM. JOSEPH L. WRIGHT, Cleveland, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 3, 1916. Serial No. 81,851. 32 Claims. (Cl. 179—27.)



1. In a telephone exchange system, the combination with automatic switches for interconnecting subscribers' lines, of a keyboard comprising a plurality of rows of buttons for controlling the operation of said switches, certain rows of said buttons being allotted to certain of said switches, restoring means for each row of buttons, means controlled by each of said switches after performing its functions for rendering operable the restoring means of its allotted row of buttons.

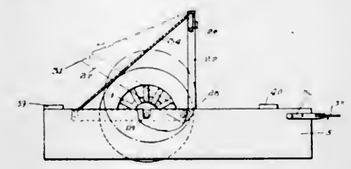
1,339,011. STYLOGRAPHIC PEN. JULIUS AREGG, West Hoboken, N. J. Filed Oct. 29, 1919. Serial No. 334,294. 4 Claims. (Cl. 120—45.)

1. In a stylographic pen, a main point section and a supplemental point section secured therein, there being an air chamber between the two sections, the supplemental point section having air ducts extending therethrough from the chamber, and the main point section having an



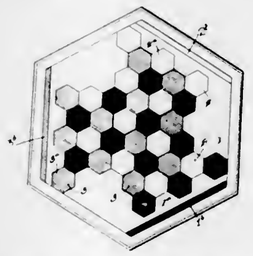
annular flange at the end thereof, through which air ducts extend to the chamber, said ducts being located remote from the wall of the main point section.

1,339,012. WATER-MOTOR. WILLIAM H. AMMONS, Jackson Springs, N. C. Filed Oct. 14, 1919. Serial No. 330,649. 1 Claim. (Cl. 170—117.)



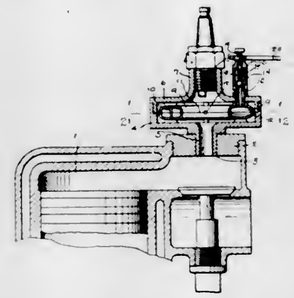
In a current motor, spaced floats, a support including spaced side members having rigid connection with the floats and extending upwardly therefrom, a wheel supporting frame, a water wheel having a shaft, said shaft having portions thereof extending beyond the sides of the wheel supporting frame, said floats having recessed portions forming bearings, means for pivotally supporting the wheel supporting frame, means for moving the wheel supporting frame with relation to the support, and said recessed portions of the frame adapted to accommodate the shaft, when the wheel is moved to a position between the spaced floats.

1,339,013. GAME-BOARD. LELAND V. BENNETT, Westerville, Ohio. Filed May 12, 1917. Serial No. 168,206. 5 Claims. (Cl. 46—64.)



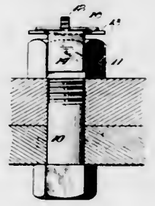
1. A game board having chordal stripes at points near its edge indicating positions for an uneven number of players and distinctively colored, its face bearing a composite playing area made up of fields, one for each player, and each composed of spaces disposed at intervals in rows parallel with the respective player's stripe and colored to correspond therewith, said spaces being interspersed with the spaces of the other fields.

1,339,014. CARBON-REMOVING MEANS FOR INTERNAL-COMBUSTION ENGINES. ROBERT C. BERRY, Indianapolis, Ind. Filed Oct. 20, 1916. Serial No. 128,600. 3 Claims. (Cl. 123—143.)



1. In combination with a cylinder of an internal combustion engine, an attachable device adapted to be secured to an engine cylinder and including a chamber in communication with the cylinder, a spark plug carried by the device and means in said chamber having an outlet leading to the atmosphere for inducing an outward draft against said spark plug upon the explosion of the charge to increase the heat adjacent said spark plug.

1,339,015. NUT-LOCK. ALBERT C. BLAKE, Buffalo, N. Y. Filed Jan. 24, 1919. Serial No. 272,903. 1 Claim. (Cl. 151—29.)

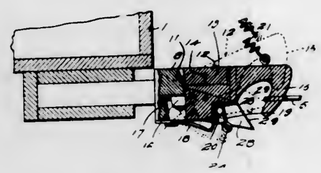


The combination with a bolt having a reduced axial screw threaded stud, of a nut threaded on said bolt, a locking device including a flat body plate having intersecting slots disposed at right angles to each other and receiving said axial stud, the opposite sides of said body plate being provided with depending flat lugs adapted to flatly engage the sides of the nut for locking the nut in position, said reduced axial stud being provided with a transverse opening, and a locking pin extending through said transverse opening and engaged with the body plate of said locking device.

1,339,016. AUTOMATIC MINE-CAR COUPLING. JOHN T. BLACKLEDGE, Elvins, Mo., assignor of two-fifths to Carr Hartshorn, Elvins, Mo. Filed June 8, 1918. Serial No. 239,008. 3 Claims. (Cl. 213—45.)

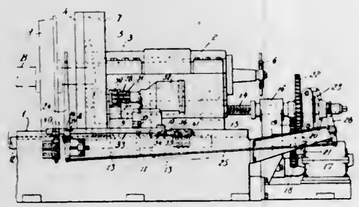
1. A car coupler comprising a draw-bar, a head formed on said draw-bar and having a slot to form a pair of relatively spaced arms, a body pivoted between said arms within said slot, a hook portion formed on said body and adapted to engage a female coupling carried by the other

draw-bar, said body having a cutout portion, a catch secured to said head and engaging the cutout portion to hold the body against pivotal movement, and a spring con-



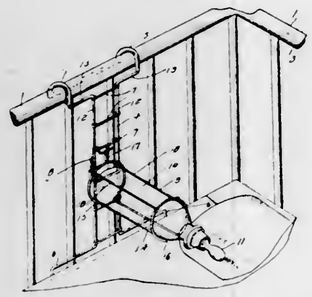
nected to the body and to a car for swinging said hook portion upwardly upon disengaging the catch from the body.

1,339,017. CAR-WHEEL LATHE. MALACHI F. BOUGHEN, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 10, 1918. Serial No. 257,569. 13 Claims. (Cl. 82—8.)



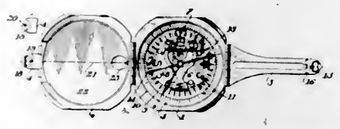
1. The combination of a bed, a work-supporting device movable along the bed, power mechanism for moving the said device, mechanism for starting the movement of the said device by the said power mechanism, and means controlled by the movement of the device for stopping the action of the power mechanism when the said device has been moved in one direction to a predetermined position.

1,339,018. NURSERY-BOTTLE HOLDER. CHARLES A. BOYCE, Worcester, Mass. Filed Dec. 26, 1919. Serial No. 347,408. 3 Claims. (Cl. 248—20.)



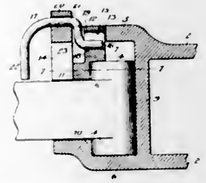
2. A nursing bottle holder comprising a support, means securing said support vertically to the side of a bed, spaced supporting bars carried by said support, a bottle holder, means formed on the bottle holder and adapted to engage any one of the bars for adjustably supporting a bottle and at an inclined plane.

1,339,019. ILLUMINATED TRANSIT. DAVID W. BRUNTON, Denver, Colo. Filed Sept. 15, 1917. Serial No. 191,559. 2 Claims. (Cl. 40—134.)



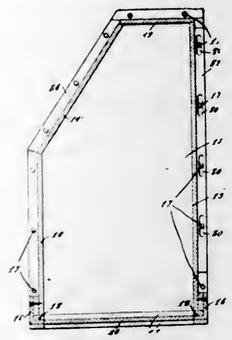
1. In a transit or the like, a transparent cover plate, luminous indicia applied to the under side of said plate and a backing of non-luminous material applied to the indicia to prevent the diffusion of the light of the indicia to the subjacent parts of the instrument.

1,339,020. RAILWAY DRAFT APPLIANCE. HARRY C. BUHOUP, Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 9, 1919. Serial No. 302,810. 12 Claims. (Cl. 213—42.)



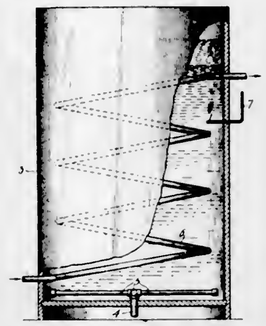
1. In a device of the character indicated, the combination with a coupler, the butt thereof having oppositely extending shoulders, of a yoke, and means for connecting said coupler and yoke, said means involving a locking block adapted to engage one of the shoulders on the butt of the coupler and a rotatable member having an angularly disposed portion for actuating said locking block.

1,339,021. COLLAPSIBLE BOX. CALVIN F. CHRISTOPHER, Canton, N. C., assignor of one-half to John H. Everett, Bryson City, N. C. Filed Apr. 1, 1918. Serial No. 226,041. 5 Claims. (Cl. 217—12.)



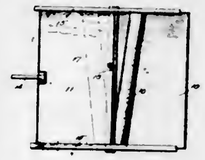
1. A box comprising a first wall; second walls at the ends of the first wall and projecting beyond the first wall; rods connecting the projecting portions of the second walls; braces coöperating with the first wall and having openings elongated longitudinally of the braces and receiving the rods, the braces and the first wall having rectangularly disposed elongated slots; securing devices in the slots; and other walls coöperating with the walls specified, to complete the box.

1,339,022. METHOD OF SEPARATING WOOD-TARS AND PYROLIGNEOUS ACID. WILLIAM E. CLIFFORD, Memphis, Tenn. Filed June 25, 1918. Serial No. 241,784. 13 Claims. (Cl. 203—6.)



10. The process of effecting separation of wood tars and pyroligneous acid liquors which consists in maintaining the same in heated state and gently agitating them by aeration, so as to facilitate said separation and permitting said tars and acid liquors to thereafter form into different strata.

1,339,023. APPARATUS FOR FORMING GUN-BARRELS. WILLIAM F. COLE, Waco, Tex. Filed Sept. 10, 1917. Serial No. 190,600. 6 Claims. (Cl. 153—71.)



1. An apparatus for forming gun barrels, including a pair of spaced apart parallel forming members, one at least of which is movable, and between which a truly cylindrical tube may be disposed to freely move with the movable member and rotate on its longitudinal axis in a plane at right angles to the plane of movement of the movable member, said members having angularly disposed forming ribs projecting toward one another to engage the tube so disposed at a constantly shifting point in its length, for the purpose described.

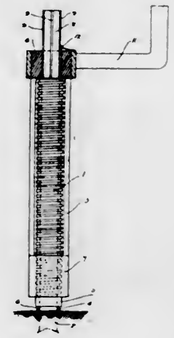
2. An apparatus for forming gun barrels including a pair of spaced apart parallel forming members, one at least of which is movable, and between which a truly cylindrical tube may be transversely disposed to freely rotate on its longitudinal axis and roll at right angles to this axis with the movement of the movable member, said members having forming ribs projecting toward one another and disposed at divergent angles whereby to engage the tube so disposed, along a line constantly shifting longitudinally and circumferentially of the tube.

3. An apparatus for forming gun barrels, including upper and lower spaced apart forming plates having generally transverse ribs extending toward one another, and one of which plates is movable in a plane parallel to the plane of the other plate, said ribs being disposed at divergent angles with respect to one another, and guides for the movable plate arranged to maintain parallel relation between the plates at all times.

4. An apparatus for forming gun barrels including upper and lower spaced apart forming plates, one of which is movable in a plane parallel to the plane of the other plate, guides for the movable plate, and forming ribs carried by said plates and projecting toward one another in the space between the plates, said ribs being disposed at angles diverging toward one side of the plates, for the purpose described.

5. An apparatus for forming gun barrels including a pair of forming members, one of which has bodily shifting movement parallel to the other, said members being provided with forming ribs extending toward one another, and being so spaced and related as to permit a tube disposed therebetween to freely roll with the movement of the movable member and present a constantly shifting point of contact with the forming ribs.

1,339,024. DEVICE FOR PULLING ROCK-DRILLS WHEN STUCK. GEORGE DAVIDSON, Britannia Beach, British Columbia, Canada. Filed Aug. 9, 1919. Serial No. 316,358. 1 Claim. (Cl. 254—30.)



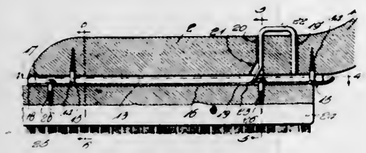
A device for pulling grooved rock drills when stuck, comprising an externally threaded cylinder provided with anchoring prongs at its lower end and through which the upper end of the drill extends, a sleeve threaded at its lower end on said cylinder having its bore at its upper end restricted to fit the said drill and provided with projections entering all but one of the grooves in the drill and with a groove registering with the remaining drill groove, a removable key fitting in the registering grooves of the sleeve and drill, and a handle adapted to be mounted on either end of said sleeve.

1,339,025. PAINT-BUCKET HANGER. CHARLES M. GARST, Independence, Mo. Filed June 28, 1918. Serial No. 242,486. 1 Claim. (Cl. 304—36.)



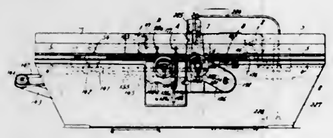
An attachment for a ladder including a ladder rail clamping means, a vertically disposed stationary disk carried by the clamping means and having openings therethrough adjacent the periphery and a hollow member extending from one face thereof, a member rotatably disposed through the disk and the hollow member and having a disk thereon engaging one of its flat faces with the adjacent face of the first disk, a tool supporting means on the rotatable disk and movable therewith, said rotatable disk having openings for successive registry with the openings of the stationary disk, and a spring held yoke member having its arms engaged through the registered openings and its intermediate portion slidably engaged with the rotatable disk.

1,339,026. MOP OR BRUSH. ASBURY HAMILTON, Brooklyn, N. Y. Filed Oct. 25, 1919. Serial No. 333,258. 4 Claims. (Cl. 15—56.)



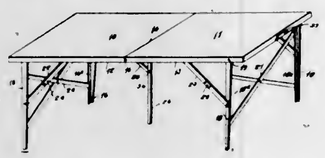
1. A device of the character described, comprising a handle, a longitudinal socket secured thereto and provided with openings, a cleaning element embodying a supporting member carrying headed elements which are adapted for insertion within said openings, and a keeper carried by the handle and having one end thereof adapted to be projected into one of said openings in advance of the headed element therein.

1,339,027. CYLINDRICAL GRINDING-MACHINE. BENGT M. W. HANSON, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 7, 1918. Serial No. 257,282. 21 Claims. (Cl. 51—4.)



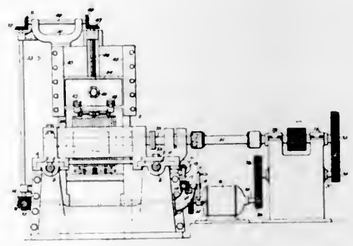
1. In a grinding machine adapted to completely grind the work at a single passage of the grinding wheel therealong, the combination of a grinding wheel, a work-supporting table, means for initially relatively transversely adjusting and holding such members in a work-finishing position, means to rotate the grinding wheel, means to slowly feed one of the members in one direction to traverse the grinding wheel over the work and completely grind and finish the work in one traverse of the grinding wheel thereover, and automatic means to always bring such member to rest at the end of such feeding movement in one direction.

1,339,028. FOLDING AUTOMOBILE CAMP-TABLE. ROBERT B. HOLLAND, Yakima, Wash. Filed Apr. 20, 1918. Serial No. 229,816. 1 Claim. (Cl. 190—11.)



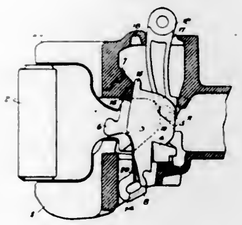
A folding table having a top provided with end sections pivotally connected and provided with depending flanges for abutting contact at their free edges when the sections are folded, supporting structures carried adjacent the outer ends of the top sections and each having side legs formed of angle iron, the side flanges of the supporting legs of one top section extending toward the inner end thereof and the side flanges of the supporting legs for the second top section extending toward the outer end thereof, cross braces connecting the supporting legs of each supporting structure, bracing brackets for the supporting structures formed of sections pivotally connected together at their adjoining ends and having their upper and lower ends pivotally connected with the table top and with the side flanges of the supporting legs, and a supporting leg pivotally connected with one of the top sections adjacent its inner end.

1,339,029. DOUBLE-HEAD MILLING-MACHINE. CHARLES L. HUSTON, Coatesville, Pa. Filed Apr. 20, 1918. Serial No. 229,718. 5 Claims. (Cl. 90—15.)



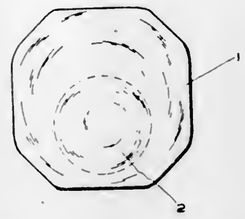
1. The combination in a double head milling machine, of a base; two heads mounted on the base; means for moving the heads toward and from each other; guideways; a work-carrying slide adapted to the guide-ways; means for vertically feeding the work-carrying guide; a horizontal milling cutter on each head, one milling cutter being arranged opposite the other; a fixed frame; two shafts on the fixed frame; gearing connecting the shafts so that they will turn in unison; means for driving one of said shafts; a spindle connecting each shaft with its milling cutter, the joint between the shafts being swiveled to the spindles so that the heads carrying the cutters can be moved toward and from each other without interfering with the gearing.

1,339,030. CAR-COUPLING. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 28, 1919. Serial No. 300,346. 4 Claims. (Cl. 213—10.)



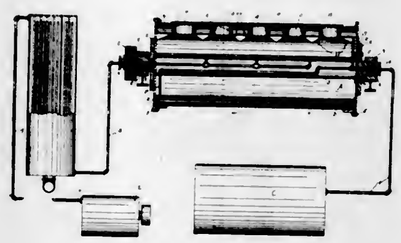
1. A car coupler having a head, a knuckle, a lock, a knuckle opening device, said lock being insertible and removable through the mouth in the head through which the tail of the knuckle enters and said lock being provided with a shoulder for alternatively engaging the knuckle opener and a wall of the coupler-head below the knuckle opener to thereby support the lock in knuckle locking position, and upwardly extending means carried by said lock for maintaining the operative relation of said lock and head when said knuckle opening device is absent, said means being adapted to prevent the upper end of said lock from tilting forwardly.

1,339,031. TESTING PROCESS. MAX A. LAAHS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 10, 1917. Serial No. 206,520. 6 Claims. (Cl. 88—56.)



1. The process of testing a meniscus fused bifocal blank, consisting in forming a test glass with one face to fit the corresponding face of the lens, forming a transparent film on one of said parts, and pressing them together to fill up the inequalities of the lens to be tested, forming a second test glass with a cup and inner face of desired form, supplying liquid to the interior of the cup, and fitting the cup on the segment to retain the liquid thereon, and in connection with the cover glass produce the effect of desired upper face power or absence of power on the segment, whereby the entire structure will be transparent and capable of testing, substantially as described.

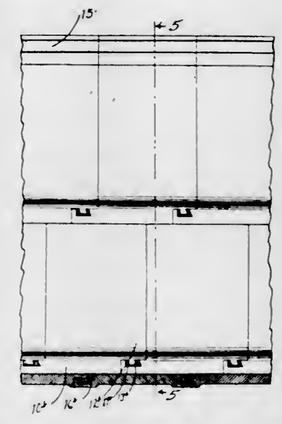
1,339,032. APPARATUS FOR DRYING FOOD. DWIGHT LENZI, Idaho Falls, Idaho. Filed Sept. 3, 1919. Serial No. 321,481. 2 Claims. (Cl. 34—5.)



1. An apparatus for preserving food comprising a rotatable casing; a cylinder secured concentrically within said casing and spaced therefrom to form a heat chamber between said cylinder and said casing and openings leading from the interior of said cylinder through said casing; detachable closure plates to make said cylinder air tight; another cylinder taking the form of a pipe concentrically secured within said first mentioned cylinder; end plates with flanged bosses secured thereon, pipes centrally secured in said bosses and passed longitudinally through said last mentioned cylinder, whereby heat may be introduced into said heat chamber and air may be withdrawn from said first mentioned cylinder.

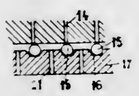
1,339,033. ROOFING-TILE. JOHN M. MARTIN, Dallas, Tex. Filed Sept. 22, 1919. Serial No. 325,379. 3 Claims. (Cl. 108—10.)

1. A roofing structure comprising, a plurality of tiles arranged in courses, each tile being provided near one edge with a groove which increases in width downwardly and at its opposite edge with an upwardly bulging flange projecting laterally beyond the same, said flange having a depending rib spaced from the edges of the flange, said rib increasing in width downwardly, the rib of one tile being adapted for insertion within the groove of the adjacent tile, plastic material within the groove to anchor the rib therein, each tile being provided at its upper end with a transverse recess having its top open, such top



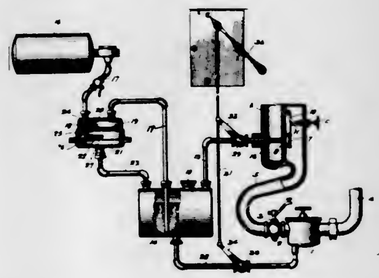
being covered by the lower end of the adjacent tile in the upper course, plastic material within the transverse recess to bind the tiles together, each tile being further provided centrally thereof upon its lower surface with a groove to receive said flange whereby the tiles in the different courses are arranged to break joint.

1,339,034. FURNACE FOR HEATING RODS AND THE LIKE. MAURICE MATHY, Liege, Belgium. Filed July 17, 1919. Serial No. 311,607. 2 Claims. (Cl. 266—5.)



2. A gas furnace for heating rods comprising a flameless combustion burner, a fixed plate under said burner provided with radial passages for the release of the heating gases, movable plate, and vertical flues arranged in said movable plate between the rods for the escape of the hot gases.

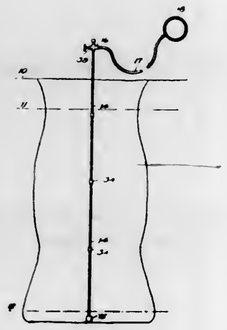
1,339,035. INTERNAL-COMBUSTION ENGINE. GEORGE S. MAXWELL, Washington, D. C., assignor to A. Ralph Serven, trustee, Washington, D. C. Filed Apr. 2, 1917. Serial No. 159,289. 5 Claims. (Cl. 123—119.)



1. In internal combustion engines, a reservoir for a volatile combustible agent, a conduit for conducting gas

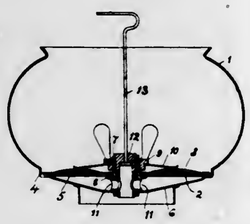
from the reservoir, a conduit for conducting the volatile agent from the reservoir, valves for controlling the discharge through the conduits, and means connecting one valve with the other to open one as it closes the other.

1,339,036. METHOD OF THAWING GROUND. JOHN H. MILES, Trinity Center, Calif. Filed Feb. 21, 1920. Serial No. 360,469. 5 Claims. (Cl. 262—3.)



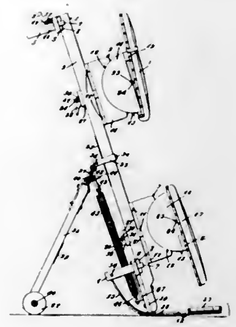
1. A process of thawing ground which consists in delivering water at a temperature but slightly above that of the frozen area to approximately the lowest point below the surface to be thawed and at a slight pressure and in such quantity that the water shall return to the surface in a substantially cylindrical path ever increasing in diameter as the thawing progresses, said path corresponding with the margin of the frozen area.

1,339,037. STRAINER. ANDERS JOHAN ERICSSON MUNTERS, Stockholm, Sweden, assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden, a Corporation of Sweden. Filed Aug. 1, 1918. Serial No. 247,841. 3 Claims. (Cl. 210—156.)



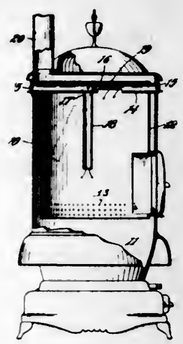
1. In a strainer, the combination, with a strainer-body, of a bottom wall below the said body, a closing device located in an opening in said bottom wall, said closing device having a casing which tightens against the strainer-body, said casing being provided with an opening for communicating with a chamber between the strainer-body and the bottom wall, and a handle extending upward from the closing device for the operation of the same.

1,339,038. CHIROPRACTOR'S TABLE. GEORGE C. OAKES, Merced, Calif. Filed Jan. 28, 1919. Serial No. 273,680. 6 Claims. (Cl. 128—73.)



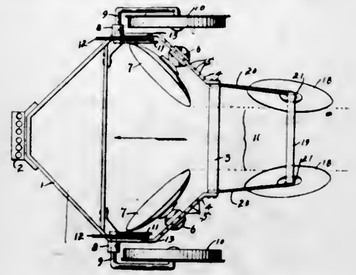
3. In a device of the class described, a main frame; an auxiliary supporting frame pivoted to the main frame; carriages mounted to slide longitudinally of the main frame; pad frames mounted to tilt on the carriages; and a combined means for holding the carriages in adjusted positions longitudinally of the main frame and for holding the pad frames in adjusted tilted positions on the carriages.

1,339,039. HEATING-STOVE. ELMER O. PARR, Greenview, Ill. Filed Jan. 28, 1919. Serial No. 273,606. 1 Claim. (Cl. 126—77.)



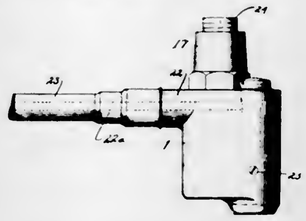
A heating stove including an outer casing and an inner drum the latter being spaced from the outer casing and having its upper end closed and its lower end open and disposed above the fire-pot, a transverse air conveying pipe disposed through the upper portions of the drum and casing and having controlling devices in the ends thereof, the intermediate portion of the pipe having a stop wall, the lower portion of the pipe at one side of said wall being formed with an elongated opening for discharging air downwardly into the inner drum, the lower portion of the pipe at the other side of the wall being formed with a smaller opening, and a depending movable pipe mounted on the pipe below the smaller opening for discharging air directly onto the fire.

1,339,040. MACHINE FOR RIDGING LAND. VERNON E PARRISH, Cupertino, Calif. Filed Oct. 30, 1919. Serial No. 334,506. 3 Claims. (Cl. 97—37.)



1. A machine for ridging land including a frame, plowing means mounted upon each side thereof and within the same and arranged to turn the plowed soil inwardly toward the draft line of the machine, a lever operatively mounted upon each side of said frame forwardly of said plows, each lever having its outer end extending backwardly in substantial parallel relation to the said draft line to a point in substantial alinement with said plows, a wheel operatively mounted on each backwardly extending portion of said levers and adjacent one of said plows, and means for locking each lever in a predetermined position.

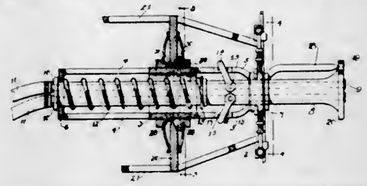
1,339,041. TIRE FILLER AND TESTER. CHARLES WALTER PELTON and JOHN PORTER BARBOUR, Livingston, Mont. Filed Mar. 20, 1919. Serial No. 283,929. 4 Claims. (Cl. 152—11.5.)



2. A tire filling and testing device comprising a hollow body portion, a pressure gage communicating therewith, means for connecting said body portion with a source of compressed air, said body portion having an opening arranged to permit the entrance of a portion of the valve stem of a pneumatic tire, means carried by the body portion and acting on an initial movement of the body portion toward the valve stem for establishing communication between the tire and the gage, and means acting on a further movement of the body portion for cutting off the gage and establishing communication between the tire and the source of compressed air.

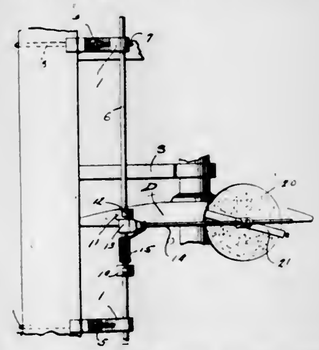
1,339,042. AUTOMATIC COUPLING FOR FLUID-CONDUCTING PIPES OF RAILWAY-CARS. SIDNEY AUGUSTIN ROUSSEAU, New Orleans, La. Filed Mar. 7, 1919. Serial No. 281,110. 7 Claims. (Cl. 284—6.)

1. A coupling for train pipe sections comprising a casing having at one end a head adapted to abut the head of the casing of the other section, a supporting frame in which the casing is slidable, a spring arranged between the casing and the frame and normally pressing said casing toward the other section, a fixed support connected to the car in which the frame is supported with the axis of the casing parallel with the long axis of the car, said frame being yieldingly connected with the support and having a limited rocking movement with respect thereto, means for adjusting said frame longitudinally of the support, said casing having a plurality of passages for motive fluid, and a valve for controlling each passage,



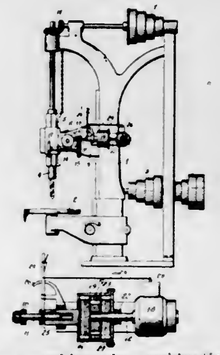
and means controlled by the movement of the casing with respect to the frame for opening and closing the valves.

1,339,043. DISK-SHARPENER. JACOB J. SCHMIDT, Ogema, Saskatchewan, Canada. Filed Oct. 22, 1918, Serial No. 259,172. Renewed Sept. 29, 1919. Serial No. 327,155. 5 Claims. (Cl. 51—7.)



3. In a disk sharpener attachment for harrows and the like, the combination of a pair of clamps adapted to engage the harrow frame, a shaft mounted through said clamps, a pair of collars on the shaft, set screws for holding them in place, and a spring coiled on the shaft between the collars and having one end engaging the set screw of one collar; of an arm having a head rotatably mounted on the shaft between the spring and the other collar, the other end of the spring engaging said arm, and a grinder longitudinally adjustable on said arm and adapted to bear on a disk.

1,339,044. DRILLING-MACHINE. WILLARD T. SEARS, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 3, 1917. Serial No. 146,398. 14 Claims. (Cl. 77—32.)



1. In a drilling machine, the combination with a work support and a rotating drill stem, of feed mechanism com-

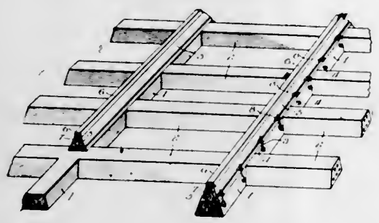
prising a power actuated element adapted to rotate rapidly during all feeds of the drill, a feed element connected with the drill stem and adapted to rotate slowly during all feeds of the drill, and non-positive mechanism interposed between the elements for transmitting a torque which is substantially uniform notwithstanding relative variations in the speeds of the elements, such mechanism operatively connecting the two elements in such manner as to provide a medium for transmitting a constant torque from the high speed element to the other element whereby the latter is normally rotated at a constant but slower speed, thus applying to the drill stem a feeding pressure which is substantially constant and uniform notwithstanding variations in the resistance offered by the work.

1,339,045. WATER-FILTER. LOUIS J. STERN, Boston, Mass., assignor to Edward R. Tolfree, Boston, Mass. Filed Oct. 18, 1916. Serial No. 126,403. 5 Claims. (Cl. 210—127.)



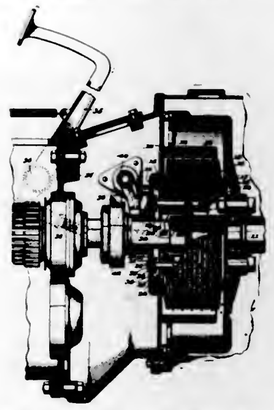
1. A column filter having a plurality of superimposed chambers, each adapted to contain filtering material and having unoccupied spaces at the top, connecting and separating means interposed between said chambers above the unoccupied spaces having centrally disposed bosses with horizontally arranged fluid passages in their side walls, means extending through the column for supplying water to be filtered at the top of said column, which fluid flows through the several chambers, and means for reversing the flow of water through the several chambers.

1,339,046. CONCRETE RAIL AND TRACK. WILLIAM J. PLATTEN, Green Bay, Wis. Filed Dec. 10, 1919. Serial No. 343,745. 6 Claims. (Cl. 238—7.)



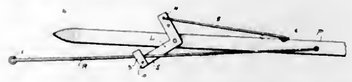
1. A rail and track construction comprising a concrete sub-base, integral cross ties forming a unitary structure with said base, a rail carried by said sub-base, said rail having a lower portion formed of concrete, a metal wearing portion embedded in the concrete at the top thereof, and means for securing said rail to said sub-base.

1,339,047. CLUTCH. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 22, 1918. Serial No. 246,178. 5 Claims. (Cl. 192—10.)



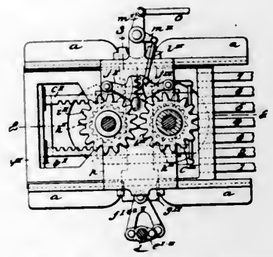
2. In a clutch, a driving disk, a driven disk, means to press the disks together including a disk presser formed with a plurality of conical apertures arranged in a circle concentric with the clutch axis, a plurality of pins each having a head at one end and a circular rib at the other, a split nut for each pin having an interior annular groove for said rib and a conical exterior surface adapted to fit in one of said apertures, and springs acting on the heads of said pins in the direction to draw the nuts into their apertures and the presser plate against the disks.

1,339,048. STEERING DEVICE. CHARLES WALTERS, Jr., Wessington Springs, S. D. Filed Mar. 15, 1919. Serial No. 282,905. 2 Claims. (Cl. 280—33.7.)



1. In combination with a draft pole of a vehicle, a rod having one end portion pivotally engaged with said pole about a vertical axis, the opposite end portion of the rod being provided with hitching means, a lever pivotally engaged with a pole about a vertical axis and at a point in advance of the pivotal connection between the rod and the pole, said lever being provided with a laterally directed loop through which the rod extends, and means for imparting swinging movement to the lever.

1,339,049. STOPPING MECHANISM FOR FABRIC-FRAME-MOVING MECHANISM. BRUNO WETZSTEIN, Neuhausen, Switzerland. Filed Jan. 25, 1919. Serial No. 273,188. 2 Claims. (Cl. 112—86.)

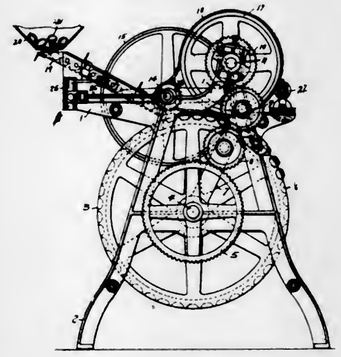


1. In a mechanism of the kind described for moving the fabric frame of automatic embroidering machines in which

the movement of the driving gear is effected by slidable rack frames arranged in groups and meshing with spur wheels, coactive members to stop the fabric frame driving gears during the stitch forming period, certain of the members being arranged to turn with the said driving gears, but which do not actuate the driving gears other than to effect a stopping movement thereof.

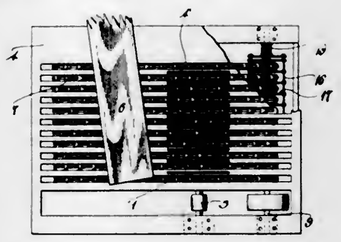
2. In a mechanism for moving the fabric frame of automatic embroidering machines in which the movement of the driving gear is effected by slidable rack frames arranged in groups and meshing with spur wheels, coactive members to stop the fabric frame driving gears during the stitch forming period, certain of the members being arranged to turn with the said driving gears, but which do not actuate the driving gears other than to effect a stopping movement thereof, the said certain stopping members being larger so that the operating stopping faces travel over a greater distance than the corresponding spur wheels.

1,339,050. STAMPING-MACHINE. FREDERICK B. WISCHHUSEN, Houston, Tex. Filed June 21, 1919. Serial No. 305,839. 2 Claims. (Cl. 101—37.)



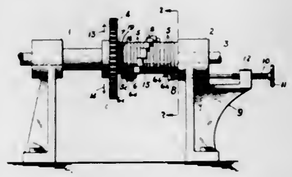
1. A device of the character described including a rotatable drum, whose periphery is provided with recesses adapted to receive objects, a printing roller mounted for rotation adjacent said drum, means for rotating the drum and printing roller, a distributer provided with delivery chutes along which said objects may be delivered to the corresponding recesses of the drum, lateral ribs carried by the respective chutes, said means being operatively connected with the distributer and oscillating the same to effect the delivery of said objects along said chutes to the recesses of said drum.

1,339,051. FEEDING MECHANISM. HERBERT L. BARRETT, Opportunity, Wash. Filed Aug. 25, 1919. Serial No. 319,574. 4 Claims. (Cl. 144—242.)



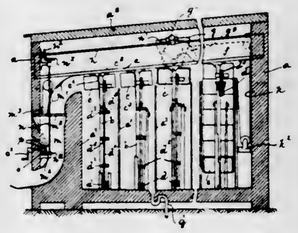
1. In a pusher feed mechanism, the combination with the series of chains and their pusher fingers, supporting shafts, and pairs of loose sprockets thereon for the chains, of a clutch device for each sprocket on one shaft and means for driving the shaft, said clutch devices coupled to act in unison, means for normally holding the clutches in engagement and means for releasing the clutches as described.

1,339,052. STOP DEVICE. FRANZ BAUER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 9, 1917. Serial No. 201,054. 6 Claims. (Cl. 74—46.)



1. A plurality of rotatable members; adjustable means for stopping one of said members; separate means responsive to said stopping, for stopping the others of said members successively, after each member has moved a predetermined degree farther than the preceding member; an additional rotatable member; and adjustable means for causing one of said first mentioned members to engage and stop said additional member.

1,339,053. ICE-VENDING MACHINE. GEORGE L. BENNETT, Hastings-upon-Hudson, N. Y. Filed Aug. 29, 1919. Serial No. 320,664. 11 Claims. (Cl. 211—8.)

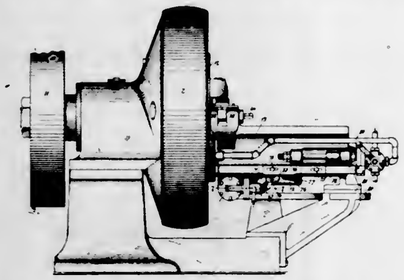


1. An ice vending machine embodying therein a housing having transverse partitions therein forming a plurality of alined storage compartments each adapted to receive a stack of cakes of ice, space being afforded at one end of each of said partitions for the passage of one cake of ice at a time, a delivery chute, means whereby a cake of ice being delivered may pass from any of said compartments to said delivery chute, a traveling delivery mechanism, means whereby said mechanism will be successively brought into the operative relation to each of said compartments, actuating means for said delivery mechanism, and a check control mechanism for preventing the unauthorized actuation of said delivery mechanism.

1,339,054. SWAGING-MACHINE FOR MAKING U-SHAPED PIPE-BENDS. CARL A. W. BRANDT, Manhasset, N. Y., and ANTOINE J. LANGELIER, Providence, R. I., assignors to Locomotive Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 26, 1918. Serial No. 255,745. 6 Claims. (Cl. 78—21.)

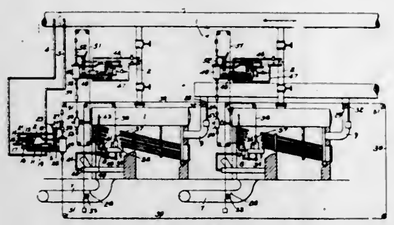
1. In a swaging machine, a work table adapted to be moved toward and away from the die blocks, a pair of oppositely disposed clamping jaws upon said table, the

outer end of one of said jaws having a cylindro-concave cam face, a cam member pivoted upon said table outside of said jaw and the outer end of said cam member having a face complementary to and adapted to engage the cam face of the jaw, and a link pivotally attached to both



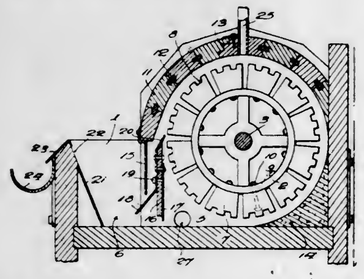
jaw and cam member so that upon rotation of the cam member upon its pivot the jaw will be moved inwardly and the cam faces engaged thus providing an abutment for the jaw, or the cam faces will be disengaged and the jaw moved outwardly.

1,339,055. CONTROLLING COMBUSTION IN A PLURALITY OF GENERATORS. FRANCIS H. BROWN, Philadelphia, Pa., assignor to John M. Hopwood, Pittsburgh, Pa. Filed Oct. 9, 1917. Serial No. 195,624. 5 Claims. (Cl. 236—14.)



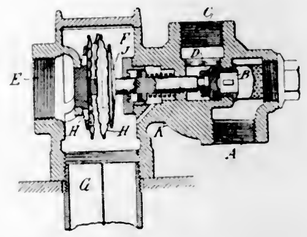
2. The method herein described which consists in regulating the flow of products of combustion from the fire boxes of a plurality of boilers by and in accordance with the rate of flow of steam along the pipe connected to said boilers and regulating the feed of fuel to each of said fire boxes by and in accordance with variations in the pressure of gases in the respective fire boxes due to changes in the rate of discharge of gases therefrom.

1,339,056. ORE-SEPARATING MACHINE. GEORGE DEMAINE, Nogales, Ariz. Filed Mar. 4, 1918. Serial No. 220,346. 2 Claims. (Cl. 259—109.)



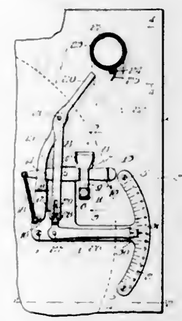
1. In a device of the class described, a casing having an opening in one side and with an arcuate top, one edge of said top forming the upper line of said opening, a drum mounted for rotation within the casing and including a plurality of peripheral riffles, a perforated retarding apron depending from the arcuate top and into the casing opening, and a combined cut off and baffle between the apron and drum.

1,339,057. THERMOSTATIC VALVE. EDWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1919. Serial No. 269,756. 3 Claims. (Cl. 236—40.)



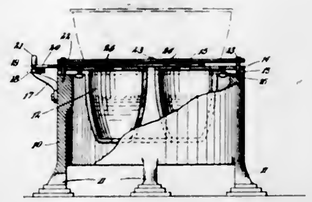
1. A thermo-motive device for operating a control element in response to the temperature of a fluid, consisting of a reaction abutment, a thrust-piece for actuating such control element, and a plurality of distinct thermostatic diagram vessels each containing a volatile liquid, interposed between said abutment and thrust-piece, adapted by their normal collective expansion to move the latter for operating said element, and each adapted to expand sufficiently to perform such movement in case the other becomes inoperative, and adapted when contracted to be withdrawn from between said parts for replacement.

1,339,058. AUTOMATIC STOP FOR PHONOGRAPHS. WILLIAMSON D. GRISWOLD, Burlington, Iowa. Filed Mar. 27, 1919. Serial No. 285,430. 15 Claims. (Cl. 74—46.)



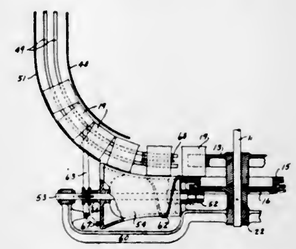
8. An automatic stop for phonographs comprising a supporting plate adapted to be mounted upon the top of the machine beneath the turntable, a brake lever pivoted on said plate, a latch for said brake lever mounted on said plate, a trip arm adapted to be engaged by a moving part of the phonograph to release said latch, and an adjusting lever pivotally mounted on said plate and connected to said trip arm to adjust the same in opposite directions, said trip arm being movable independently of said adjusting lever to release said latch, and said adjusting lever and said plate having coöperating means for holding said lever in adjusted position.

1,339,059. ALCOHOL-STOVE. JAN GROCHMAL, Chicopee, Mass. Filed Sept. 25, 1919. Serial No. 326,306. 1 Claim. (Cl. 126—43.)



An alcohol stove comprising a cylindrical walled casing, standards on which said casing is supported, a plate fixed upon the upper end of said casing, a fuel chamber formed with said plate extending downward in said casing, the section of said fuel chamber being substantially conical, a cover plate engaged over said fixed plate, said cover plate containing a plurality of uniformly spaced apertures, an apertured shutter plate pivoted on said casing, the openings of which are adapted to register with the openings through said fixed plate, means for actuating said shutter plate, a grate arranged thereover upon which vessels may be disposed, a bracket extending from said cylindrical casing, a segment secured on the upper end of said bracket, pins set in said segment, a lever extending from said shutter plate operative between said pins, and means for actuating said lever.

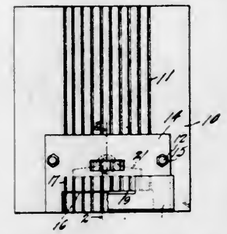
1,339,060. FEEDING DEVICE. OSWALD H. HANSEN, Port Washington, Wis., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Original application filed Jan. 28, 1918, Serial No. 214,205. Divided and this application filed Sept. 9, 1918. Serial No. 253,177. 25 Claims. (Cl. 193—13.)



11. In a can feeding device, a drum having contiguous tapered and cylindrical surfaces of revolution, means for rotating said drum about the axis of revolution of said surfaces, and means for guiding a can along said drum with the central axis of said can in the vertical plane of said axis of revolution.

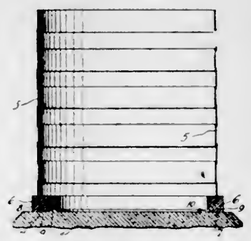
1,339,061. BATTERY-PLATE AND TERMINAL CONNECTION. ALDA F. HAWKINS, Fort Worth, Tex., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex., a Corporation of Texas. Filed Oct. 3, 1919. Serial No. 328,097. 1 Claim. (Cl. 204—29.)

In apparatus of the character described, a substantially horizontal base provided upon its upper face with spaced grooves extending through its forward portion, a pair of upstanding posts secured to the base upon opposite sides of the grooves, a substantially horizontal molding plate secured to the upper ends of the posts, said plate having spaced slots which have their forward ends open, said plate having an opening spaced from said slots and arranged rearwardly out of the slots, said molding plate serving to support the flange of a binding post with the lug of the binding post projecting into said opening, and



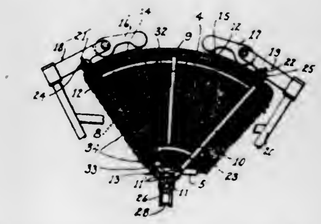
a bar arranged upon the plate adjacent the slots and having recess means leading into the slots, said bar being adapted to be manually removed from the plate.

1,339,062. TANK AND METHOD OF FORMING THE SAME. RAYMOND D. JOHNSON, Sea Gate, Coney Island, N. Y. Filed Apr. 23, 1919. Serial No. 292,141. 4 Claims. (Cl. 72—13.)



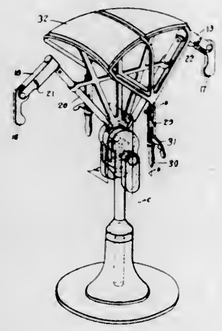
2. A fluid tank or reservoir comprising a top cylinder of metal, a foundation having a smooth circular surface, a relatively low intermediate annular wall of concrete embedding the end of said cylinder and having a smooth under surface of an area such that its unit pressure will exceed the unit pressure of the column of water above it when the tank is full, said annular wall being fitted accurately to the surface of said foundation to permit relative movement between the parts while retaining fluid in said tank.

1,339,063. METHOD AND MEANS FOR PRODUCING WOVEN-REED ARTICLES. MARSHALL B. LLOYD, Menominee, Mich. Filed Mar. 25, 1919. Serial No. 285,096. 31 Claims. (Cl. 147—48.)



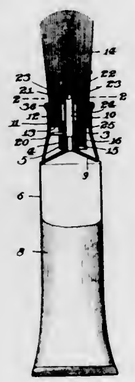
1. A method of producing articles of woven reed and the like that consists in providing a frame curved at least in part, in providing a strip of woven reed fabric of a size greater than the frame, clamping the fabric temporarily against the frame with the surplus fabric projecting beyond the ends of the frame and while in this condition folding the surplus material around and securing it to the frame members.

1,339,064. APPARATUS FOR PRODUCING WOVEN-REED ARTICLES. MARSHALL B. LLOYD, Menominee, Mich. Original application filed Mar. 25, 1919, Serial No. 285,096. Divided and this application filed Jan. 21, 1920. Serial No. 352,970. 8 Claims. (Cl. 144—288.)



1. Mechanism for use in producing baby carriage hoods and the like of woven reed and the like, comprising in combination, a frame, members pivotally mounted thereon and carrying clamping levers and side clamping frames hung from said pivotally mounted members.

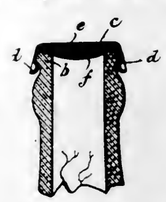
1,339,065. SHAVING-BRUSH. WALTER H. MCEVILLA, Philadelphia, Pa. Filed Nov. 15, 1918. Serial No. 262,654. 3 Claims. (Cl. 15—50.)



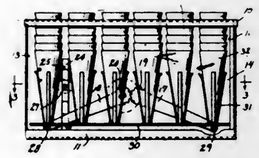
1. The combination of a member provided with a soap delivery tube, a head movably mounted on the member, a brush carried by the head, said tube having a discharge port adjacent to a part of said brush, means operated by the relative moving of said member and said head to open and close said port, said means closing said port when said member and head are in normal position, and means to automatically return said member and said head to normal position after being moved therefrom and released.

1,339,066. BOTTLE-CLOSURE. CHARLES E. MCMANUS, New York, N. Y. Filed Nov. 17, 1915. Serial No. 61,909. 9 Claims. (Cl. 215—10.)

1. A bottle closure embodying therein a metallic cap, a compressible disk within said cap, and a flexible disk of non-absorbent material superimposed upon, and united by means of a binding medium with, said compressible disk, said superimposed disk being of smaller diameter than said compressible disk, whereby a sufficient portion of the surface of said compressible disk is exposed to permit the sealing of the bottle directly against said compressible disk and the portion of the compressible disk within the neck of the bottle is protected by said flexible disk.

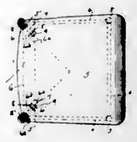


1,339,067. CORNUCOPIA-DISPENSER. FRANK MAREK, Los Angeles, Calif. Filed Apr. 5, 1919, Serial No. 287,762. Renewed Mar. 29, 1920. Serial No. 369,766. 2 Claims. (Cl. 211—8.)



1. A cornucopia dispenser comprising a casing provided with a plurality of vertically extending rows of cornucopias therein and means to raise said rows upwardly whereby the topmost ones in each row will be caused to extend beyond the top of said casing; means to adjust said last means; means to release said adjusting means.

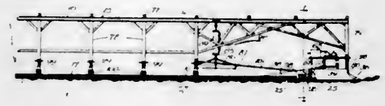
1,339,068. CHAIR. GEORGE W. MARTIN, Philadelphia, N. Y. Filed Nov. 28, 1919. Serial No. 341,046. 1 Claim. (Cl. 155—197.)



The combination with the frame of a chair including a pair of back posts, said posts provided with angular perforations, of a seat disposed horizontally on said frame, the rear corners thereof having circular sockets arranged to receive but not to contact with said posts, a cleat supporting the rear end of said seat extending across the rear side of the frame and overlapping said posts, the rear edge of said cleat provided with circular sockets arranged to receive and closely contact with said posts, the front edge of said cleat provided with V-shaped notches connected to the sockets of the cleat by angular holes which aline with the perforations in said posts, bolts driven through said posts and said cleat, the heads of said bolts engaging the rear faces of said posts, the threaded ends thereof projecting into said notches, and nuts concealed by said notches adapted for rigidly holding the said parts together.

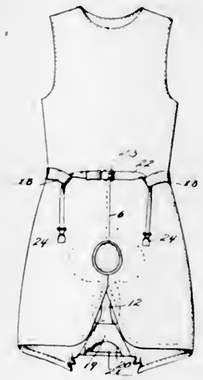
1,339,069. APPARATUS FOR LAYING ROADBEDS. ROBERT E. RODGERS and THOMAS C. JACKSON, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 290,048. 17 Claims. (Cl. 94—47.)

1. Apparatus for laying road beds comprising an assembling support transversely hinged to adapt it to varying road bed foundation grades on which road bed slabs are adapted to be assembled in courses, and means carried



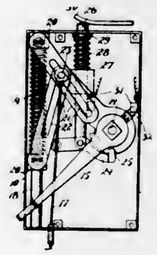
by said support for forcing a last laid course of slabs against a previously laid course.

1,339,070. COMBINATION-UNDERGARMENT. ALEXANDER B. SANDERS, Miami, Fla. Filed May 2, 1919. Serial No. 294,205. 8 Claims. (Cl. 128—159.)



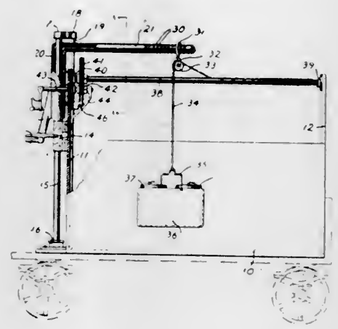
1. A pair of drawers to encircle the body and having projecting leg encircling portions, a centrally located stiffened seat portion, a genital supporting bag secured between and connecting the leg encircling portions and in front of and in line with the seat portion, and means for drawing the bag more or less tightly in its operative position at the front of the drawers.

1,339,071. OPERATING MEANS FOR DIRECTION-INDICATORS. CHARLES H. SHIPMAN, San Francisco, Calif. Filed Sept. 3, 1919. Serial No. 321,428. 3 Claims. (Cl. 116—36.)



1. In a direction indicator for automobiles, an actuating member adapted to be moved in opposite directions for causing the proper signal to be displayed, yielding means tending to restore the actuating member and connected parts to neutral or inoperative position, means to retain said parts in operative position, and means carried by the steering wheel of the automobile and movable into engagement with the retaining means to release the latter when the contemplated turn has been effected.

1,339,072. ASH-HOIST. CHARLES SIEDLICKIS, Syracuse, N. Y. Filed July 23, 1919. Serial No. 312,693. 3 Claims. (Cl. 212—54.)



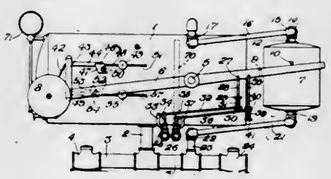
1. In an ash hoist, the combination with a wheeled receptacle, a horizontal shaft journaled therein, a vertical shaft, and a sleeve rotatably mounted on said shaft, of an arm formed with said sleeve capable of rotation, means for holding said sleeve when in an adjusted position, an ash can bucket, a pulley engaged with said rotatable arm, a cable running over said pulley attached to said bucket at one end, and with said horizontal shaft at the other end, means for rotating said shaft whereby said bucket may be raised, and means for holding said bucket when in a raised position.

1,339,073. COLLAR-CLIP. KARL STAUFENBEIL, Dubuque, Iowa. Filed June 5, 1919. Serial No. 301,928. 3 Claims. (Cl. 24—81.)



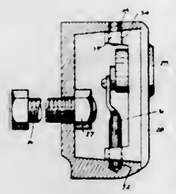
1. A collar bar comprising two parallel spring wires having oppositely curved central portions—spurs on the wires, a member encircling said wires and adapted to engage said spurs whereby the wires are held against rotation and in fixed gripping relation.

1,339,074. VACUUM AND RETURN STEAM-TRAP. WALLACE E. TILLINGHAST, Auburn, R. I. Filed Oct. 24, 1916. Serial No. 127,488. 4 Claims. (Cl. 137—103.)



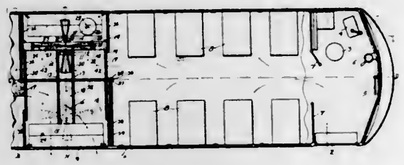
1. In an apparatus of the kind described, a receiver, a vertically movable cylinder outside said receiver, an adjustable latch constructed and arranged to hold said cylinder in its vertical position until overbalanced by a predetermined weight of water accumulating in said cylinder, in combination with a second latch to hold the cylinder in lowered position until the predetermined amount of water has been discharged from the receiver.

1,339,075. LOCK-HOUSING FOR SCREWS AND BOLTS. WALTER H. TOELLE, Wallingford, Conn. Filed Sept. 12, 1919. Serial No. 323,385. 3 Claims. (Cl. 70—122.)



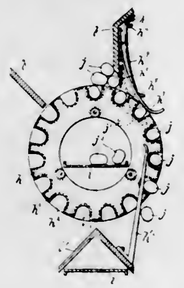
2. A lock housing for screws and bolts comprising a housing formed with a hole in its inner wall and open at its outer end, means for holding the housing against rotation, a closure for the open end of the housing, and lock mechanism mounted in said closure, said lock mechanism including an eccentric and a locking arm connected with the eccentric and adapted to extend into engagement with the housing.

1,339,076. TURNSTILE. CONRAD D. TRUBENBACH, Mount Vernon, and DIEDRICH BALDWIN SANNEMAN, Brooklyn, N. Y., assignors to Perey Manufacturing Company, Inc., a Corporation of New York. Filed Dec. 26, 1918. Serial No. 268,275. 15 Claims. (Cl. 105—341.)



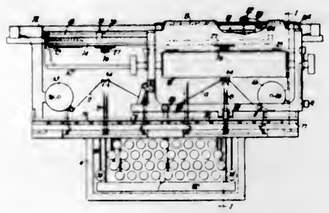
1. The combination with a turnstile, of a car holding the turnstile, and means permitting the turnstile to be moved from its normal operative position to a second operative position in the said car.

1,339,077. CRANBERRY-SEPARATOR. WALTER E. TRUFANT, Whitman, Mass. Filed Mar. 27, 1919, Serial No. 285,565. Renewed Oct. 9, 1919. Serial No. 329,635. 17 Claims. (Cl. 130—32.)



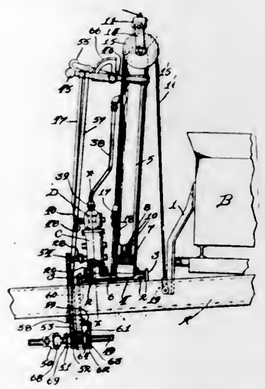
1. In a cranberry separator the combination of, means for grading the berries, pockets to receive the berries as graded, means for applying pressure on the berries when in the pockets, means for adjusting said pressure means, said pockets being formed to permit berries which are deformed by the pressure to slip out, means for conveying away said deformed berries, and means for ejecting the sound berries from the pockets.

1,339,078. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 16, 1917. Serial No. 196,797. 100 Claims. (Cl. 197—5.)



75. In a typewriting machine, the combination with a plurality of type-sets, of a carriage, a single set of keys, key-actuated means for actuating any one of said type-sets, and carriage-actuated means for rendering said key-actuated means ineffective for actuating one of said type-sets, and effective for actuating another.

1,339,079. HYDRAULIC UNLOADER. GRANT WALDREF St. Paul, Minn. Filed June 30, 1915. Serial No. 37,195 4 Claims. (Cl. 298—22.)

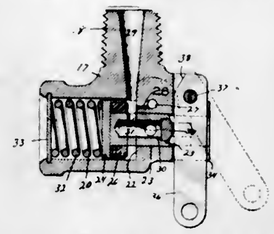


1. A hydraulic unloader, comprising, in combination, a support, a cylinder, a base mounted upon said support and carrying said cylinder, said base being passaged laterally to form a duct communicating with the lower end of said cylinder, a pump mounted upon said base and connected downwardly with said duct for the flow of fluid into and from the lower end of said cylinder, a piston in said cylinder having its rod for lifting a load projecting upwardly therethrough, a passage leading from said pump to the upper end of said cylinder, a valve mounted upon said pump in communication with the passage leading to the upper end of said cylinder and an auxiliary passage in said pump leading through said valve and forming a communication between the ingress and egress portions of the pump, said valve being adapted to control said passages to either force fluid into the lower end of the cylinder to raise said piston or to form a circuit for the fluid independent of the cylinder.

1,339,080. PRIMER FOR INTERNAL-COMBUSTION ENGINES. HAROLD D. WATERHOUSE, Hartford, Conn. Filed Sept. 9, 1919. Serial No. 322,623. 10 Claims. (Cl. 123—180.)

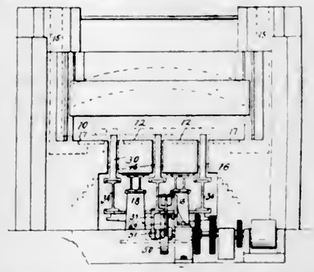
1. A primer for internal combustion engines, including a valve casing having an inlet and an outlet substantially

at right angles to each other, an annular valve seat concentric with one and a liquid passage terminating in said seat, and a reciprocatory valve member having an annular



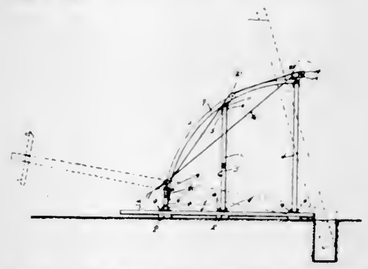
gasket normally engaging with said seat to prevent flow of liquid from said passage and prevent flow of air from said inlet to said outlet radially across said seat.

1,339,081. ANNEALING AND HEAT-TREATING FURNACE. JACOB WEINTZ, Cleveland, Ohio, assignor to The Strong, Carlisle and Hammond Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 16, 1917. Serial No. 202,354. 4 Claims. (Cl. 214—18.)



1. The combination of a furnace whose floor is provided with longitudinal slots, a carrier frame having parallel rails which are movable in said slots, transversely extended saddles upon which said rails are secured, vertically movable plungers located beneath said saddles, a plurality of anti-friction rollers supported on the tops of said plungers and in turn supporting said saddles, a frame in which each set of rollers have their bearings to preserve their spaced relation, means for periodically raising and lowering said plungers, and means for imparting a longitudinal movement in one direction to said carrier frame when the plungers are at the tops of their paths and for imparting movement in the opposite direction to the carrier frame when the plungers are at the bottoms of their paths.

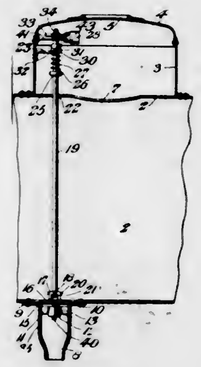
1,339,082. POLE-SETTING DEVICE. JOSEPH H. WILLIS, Mahan, W. Va., assignor of one-half to J. A. Greene, Mahan, W. Va. Filed Sept. 12, 1918, Serial No. 253,763. Renewed Nov. 18, 1919. Serial No. 338,824. 3 Claims. (Cl. 214—3.)



1. A pole lifting apparatus comprising a base, uprights attached to the base and of a different length, the longest

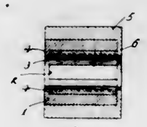
of the uprights being provided with pulleys at their upper ends, cables passed over the pulleys and provided at their terminals with a yoke adapted to be disposed between the said uprights, and rail members connecting the upper ends of the uprights.

1,339,083. OUTLET-VALVE MECHANISM FOR TANK-CARS. GEORGE F. WOOD-SMITH, St. Louis, Mo., assignor, by mesne assignments, to Standard Tank Car Company, St. Louis, Mo., a Corporation of Delaware. Filed Sept. 14, 1917. Serial No. 191,426. 19 Claims. (Cl. 137—21.)



1. In a device of the character stated, the combination with a tank car, of an outlet leg, a valve controlling said outlet leg, and means including a part concealed within the upper end of said outlet leg to positively lock said valve in closed position, said means being incapable of being actuated through the discharge end of said outlet leg.

1,339,084. BEARING. GEORGE H. WORRALL, Kirkwood, Mo., assignor to United Lead Company, New York, N. Y., a Corporation of New Jersey. Filed June 12, 1919. Serial No. 303,558. 6 Claims. (Cl. 64—10.)

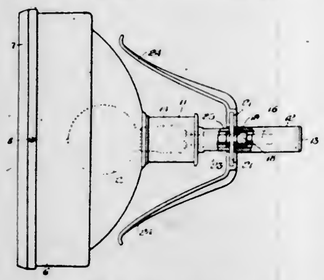


1. A bearing comprising a metallic element formed with one or more grooves extending from end to end thereof for holding a lubricating compound, each groove being open at one end and thereby adapting said member to be cast in and withdrawn from a die or mold without disassembling or destroying the latter and having a metallic wall element applied to and permanently fixed in position upon it after casting, closing the open end or ends of said groove or grooves, and a solid lubricating material held in said groove or grooves, substantially flush with the end walls thereof and protected by said end walls.

1,339,085. LIGHT-SIGNALING. ADELBERT AMES, Jr., Tewksbury, Mass. Filed June 21, 1917. Serial No. 176,081. 6 Claims. (Cl. 240—1.)

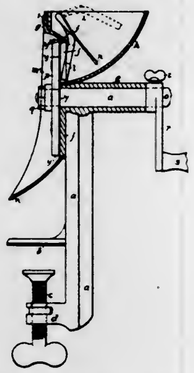
1. Signaling apparatus comprising a reflector adapted to reflect light emanating from its focus in the form of a concentrated beam, a light source, means for movably mounting the light source relatively to the reflector so that it can be moved into and out of focus, and yielding means for normally holding the light source out of focus, the

yielding means being adapted to yield sufficiently to permit the light source to be moved into focus against the action



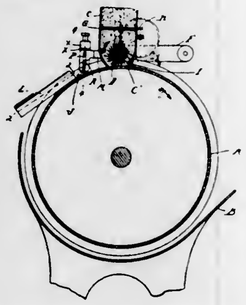
thereof, whereby light signals may be transmitted by intermittently moving the light source into focus against the action of said yielding means.

1,339,086. NUT-SHAVING MACHINE. HOMER ANDERSON, Peekskill, N. Y. Filed Jan. 17, 1918. Serial No. 212,206. 2 Claims. (Cl. 146—11.)



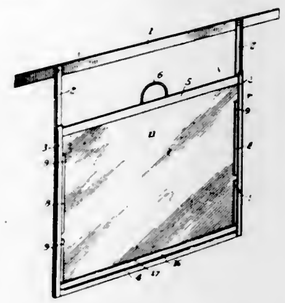
1. In a nut shaving machine the combination with the shaving devices of a feeding hopper, a bottom to the hopper curving from the top to its junction with the body of the machine, a sweep hinged within the forward top of the hopper, the end of the sweep moving in a circle eccentric to the bottom of the hopper, and a sweep operating handle outside of the hopper.

1,339,087. BREAD-MOLDING MACHINE. JAN ARTKOP, Detroit, Mich. Filed Mar. 24, 1919. Serial No. 284,633. 6 Claims. (Cl. 107—7.)



6. In a loaf-molding machine, the combination with a rotary drum, of a flour hopper mounted above said drum and normally adjacent thereto, a scraper blade adapted to engage the drum, means for vertically adjusting said hopper, and means for adjusting said blade vertically independently of the hopper.

1,339,088. DEVELOPING-RACK. FREDERICK W. BARNES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 11, 1919. Serial No. 270,740. 7 Claims. (Cl. 95—100.)



1. A frame consisting of end bars and side bars, the latter having inwardly turned grooves, resilient clasping jaws mounted on one wall of the grooves and adapted to clamp sheet material against the other wall of the groove.

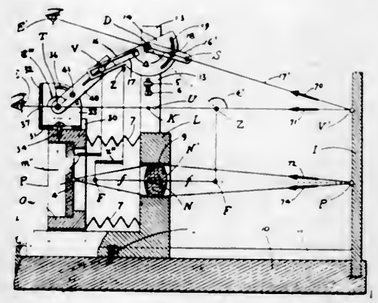
1,339,089. STABLE-CLEANING MEANS. ERIC W. BASCOM, Alstead, N. H. Filed Feb. 14, 1918. Serial No. 217,114. 1 Claim. (Cl. 193—8.)



In an apparatus of the character described, a trough comprising sides and a bottom, the upper surface of the bottom being curved upwardly adjacent each end and the highest point of the curved portion terminating below the tops of the sides, shafts rotatably supported a distance from each end of the trough and in alinement with the upper curved ends thereof, pairs of sprocket wheels secured on said shafts in spaced relation, chains passed over said sprocket wheels and having the upper run operating in the trough, inwardly directed spacing members secured to said chain and serving to connect the chain so as to form therewith an endless conveyer, said spacing members being adapted to engage the upper surface of the trough, shafts supported in the trough transversely thereof and adjacent the ends, and sprocket wheels rotatably mounted on the shaft and engaging the upper surface of the chains for pressing the spacing members into contact with the surface of the trough, said sprocket wheels holding the chains and spacing members therebetween in horizontal plane.

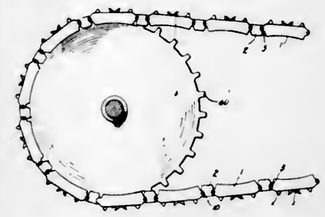
1,339,090. COPYING AND ENLARGING CAMERA. JOSEPH BECKER, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 18, 1917. Serial No. 143,085. 1 Claim. (Cl. 88—24.)

The combination with a photographic camera having a focuser of the radial cam type comprising: first, a radial arm pivoted on the lens frame of the camera and adapted to engage the plate or film-holding frame of the camera; secondly, a radial element for the object likewise pivoted on the said lens frame of the camera; thirdly, means connecting said first two radial elements so that they shall rotate in constant angular relation; such connecting means comprising a normally rigid unit composed of parts whose



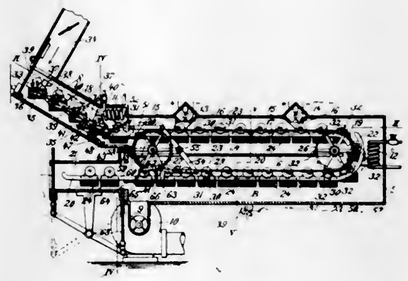
relative position can be varied to adjust the angular dimension of such unit and thereby set the said constant angular relation or basic angle of the focuser at any desired value.

1,339,091. CHAIN SAW. CLAUDE BENEFIEL, Bremerton, Wash., assignor of one-half to William A. Clench, Seattle, Wash. Filed Sept. 10, 1919. Serial No. 322,932. 16 Claims. (Cl. 143—135.)



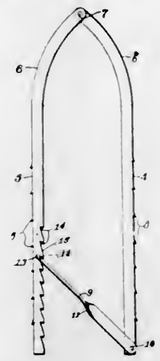
1. In a chain saw, a link having two channels leading upward from its under face to its upper face, a U-shaped tooth having its side members extending outward through said channels beyond the upper face of the link to form cutting teeth, and means for removably securing said tooth in the link.

1,339,092. METHOD OF AND APPARATUS FOR DRYING FRUITS, VEGETABLES, AND OTHER SUBSTANCES. GEORGE HILLARD BENJAMIN, New York, N. Y. Filed Apr. 16, 1917. Serial No. 162,252. 8 Claims. (Cl. 34—12.)



1. The method of partially dehydrating bodies, which consists in subjecting them to the simultaneous action of radiant heat, electric light rays of controlled intensity, and a moving drying medium having a controlled temperature and humidity.

1,339,093. HIDE-STRETCHER. ALEXANDER BERG, St. Louis, Mo. Filed June 27, 1919. Serial No. 307,221. 1 Claim. (Cl. 149—21.)



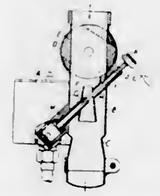
A hide stretcher comprising a pair of stretching members having curved ends and pivotally connected at one end, a series of spurs formed on the outer edges of the stretching members, a series of notches provided with inclined walls formed on the inner edges of one of the stretching members, a combined hand lever and stretcher bar having one of its ends pivotally secured to one of the stretching members and positioned between said stretching members, said lever being provided on its free end with a guide way adapted to engage said notches and to prevent said lever from laterally shifting and becoming disengaged, said lever thereby acting as a hand lever for expanding the members of the stretching frame, and holding the same in the desired adjustment.

1,339,094. PREFORMED EXPANSION-JOINT STRIP. FORD C. BOWMAN, Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio, a Corporation of Ohio. Filed Feb. 21, 1914. Serial No. 820,179. 5 Claims. (Cl. 94—18.)



5. As an article of manufacture, an expansion joint formed of a ply of flexible elastic material and a layer of asphalt of greater thickness than said ply superposed upon and in engagement therewith.

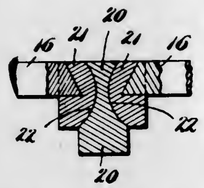
1,339,095. CARBURETER. GRANVILLE EASTWOOD BRADSHAW, Walton-on-Thames, England. Filed Feb. 12, 1918. Serial No. 216,813. 2 Claims. (Cl. 261—66.)



1. In a carbureter, a float chamber, a body portion including a relatively large tube, a jet providing communi-

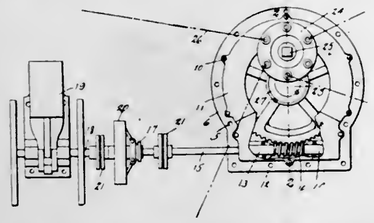
cation between the relatively large tube and float chamber, a secondary tube disposed intermediate the length of the relatively large tube, and supported by the jet and having communication therewith, a relatively small tube having communication with the secondary tube and having one of its ends lying in parallel relation with one of the side walls of the relatively large tube, and a needle valve for controlling the passage of fuel from the jet.

1,339,096. PROCESS OF CASTING IRON SCREEN-PLATES FOR STEEL GRIDS. DAVIS BROWN, Bucyrus, Ohio, assignor to The American Clay Machinery Company, a Corporation of Ohio. Filed Dec. 14, 1917. Serial No. 207,043. 5 Claims. (Cl. 22—206.)



5. The improved method of casting an iron screen plate with steel grid bars having a central partition to receive the inner ends of said bars, which consists in forming a mold, placing the steel bars in the mold with their outer ends in position in the frame mold, and their inner ends respectively in a relatively narrow portion of the inner mold, coring said inner frame mold between the ends of the grid bars, casting the frame, then permitting said frame to cool, and then casting a reinforcing member having an interlocking contour with said middle partition substantially in place of the originally cored portion.

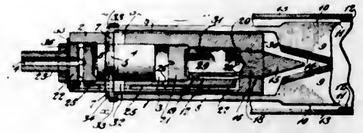
1,339,097. OIL-PUMP-OPERATING MECHANISM. DOUGLAS R. BROWN, Coffeyville, Kans. Filed Apr. 26, 1919. Serial No. 292,851. 1 Claim. (Cl. 74—36.)



In a pump operating mechanism, a base having a side wall, a plate resting on the side wall for partially inclosing the interior of the base and having a clearance for the travel of a wrist pin, a worm wheel rotatably mounted in the base, a stub shaft carried by the worm wheel, an apertured wheel rotatable on the stub shaft, a worm shaft journaled in the base engaging the worm wheel, and means for driving the worm shaft.

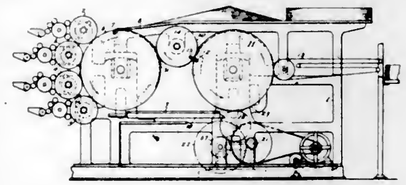
1,339,098. DUPLEX-ACTING PERCUSSIVE BOILER-TUBE CLEANER. WILLIAM BURLINGHAM, Newport News, Va., assignor to Engineering Products Corporation, Newport News, Va., a Corporation of Virginia. Filed Oct. 15, 1915. Serial No. 56,003. 6 Claims. (Cl. 83—64.)

1. In a device of the character stated, a cylinder having a front piston chamber and a rear piston chamber, a partition separating said chambers, a reciprocating carrier-piston located in the rear piston chamber, cutting devices having their inner ends connected with said carrier piston so as to be reciprocated in unison therewith, means for introducing constant live air pressure into both piston



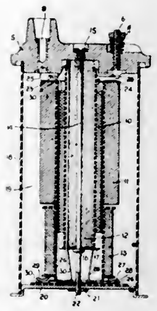
chambers, and a hammering piston in the front piston chamber the reciprocation of which occasions the radial vibration of the cutting devices.

1,339,099. PRINTING-MACHINE. ANTHONY SOHEN BUSK, Woodhaven, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Aug. 11, 1917. Serial No. 185,677. 14 Claims. (Cl. 101—232.)



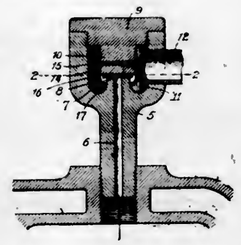
1. In a printing machine, the combination of a printing couple, reciprocating sheet cutting or scoring devices for cutting or scoring the sheet after printing, means for driving the couple, connections from the printing couple driving mechanism for driving the cutting or scoring devices, and connections whereby the scoring or cutting devices may be silenced without interrupting the operation of the printing couple driving mechanism.

1,339,100. SPARK-COIL. JOHN F. CAVANAGH, Meriden, Conn., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn., a Corporation of Connecticut. Filed Aug. 15, 1918. Serial No. 250,018. 10 Claims. (Cl. 175—360.)



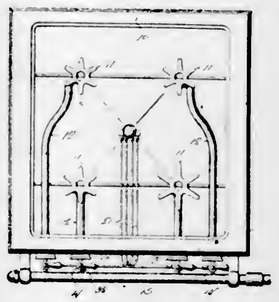
1. A spark coil comprising a casing and an electrical unit complete as such, independent of the casing, and adapted for testing before being assembled in the casing, said unit comprising an insulating base, terminals mounted on the front of said base, coil windings, a condenser supported by said coil windings, the said condenser and coil windings being supported on the back of said insulating base and electrically connected with the terminals on the front of the base.

1,339,101. CHECK-VALVE. EDMUND S. CHURCH, Chicago, Ill. Filed Nov. 3, 1916. Serial No. 129,267. 5 Claims. (Cl. 251—127.)



2. In a check valve, the combination of a casing having a seat therein and inlet and outlet connections for fluid, a thin flat disk adapted to fit on the seat, a plug having a stem in the casing, a sheet metal tube removably held on the stem for guiding the edge of the disk, and a stop on the stem to limit the movement of the disk away from its seat.

1,339,102. IGNITION-TORCH FOR GAS-BURNERS. EMIL L. CLAUS, Milwaukee, Wis. Filed Mar. 18, 1919. Serial No. 283,325. 13 Claims. (Cl. 158—115.)



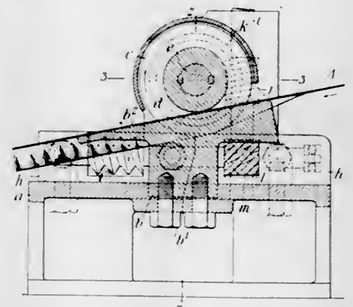
1. An igniter device comprising the combination with a plurality of burners and control valves therefor, of a torch head provided with a plurality of upwardly extending torch passageways having lateral jet apertures in their side wall portions each directed toward a certain burner, said jet apertures being closely grouped for ignition by a single common pilot light, means for maintaining a pilot light at said jet apertures, and means operable by each of said burner valves for providing a torch supply of gas through a corresponding passageway.

1,339,103. PROCESS OF FORMING TUBULAR CORD FABRICS. JOSEPH HERBERT COFFEY and JOSEPH HERBERT COFFEY, Jr., Toronto, Ontario, Canada. Filed June 7, 1918. Serial No. 238,682. 1 Claim. (Cl. 154—8.)



A process of forming tubular cord fabrics for tire covers and the like which consists in simultaneously carrying on the following operations, (1) forming a narrow band of substantially unconnected parallel spun cords and thereafter maintaining the continuity of the band until the fabric is formed; (2) impregnating the cords with rubber cement and evaporating the solvent; (3) applying to the band sufficient rubber to thinly coat the cords and fill in the interstices between the same; (4) leading the coated band of cords to a substantially cylindrical mandrel having its axis at an angle to the course of the cords and without changing laterally the direction of movement of the cords; and (5) spirally wrapping the coated cords upon the mandrel by rotating the mandrel and moving it lengthwise until a fabric ply of the desired length is produced, and the band being kept continuously under tension throughout the process.

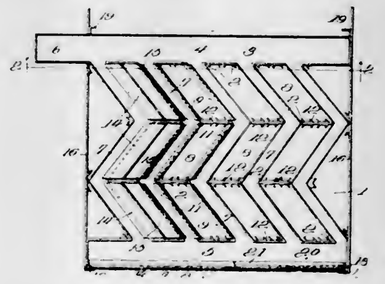
1,339,104. METHOD AND APPARATUS FOR MANUFACTURING RADIATOR-TUBES. GEORGE FREDERICK COOKE, London, England, assignor to British Automobile Equipment Company Limited, London, England. Filed Apr. 9, 1919. Serial No. 288,833. 3 Claims. (Cl. 113—116.)



1. In a method of manufacturing radiator tubes from a single sheet or strip of metal, the steps of folding the strip into approximately V-shape to form opposite side portions, then corrugating and placing the longitudinal edges of said side portions together, and maintaining the parts of the side portions adjacent the fold in spaced relation during the corrugating step to provide a longitudinal passage.

2. A machine for producing corrugated tubes from sheet metal comprising an anvil and a co-acting grooved roller for folding the metal sheet or strip, in combination with a pair of helical rollers which mesh together, the axes of which are parallel and the helices of which are right and left hand, respectively, for corrugating the folded metal strip, and means for rotating the grooved roller and the corrugating rollers, substantially as hereinbefore described.

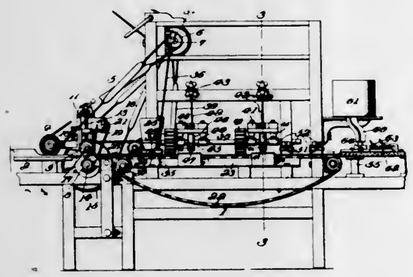
1,339,105. APPARATUS FOR CLEANING, MOISTENING, AND COOLING AIR. WILLIAM FRANKLIN COX, Danville, Va., assignor to Sanitary Heating and Ventilating Company, Incorporated, Danville, Va., a Corporation of Virginia. Filed Mar. 15, 1918, Serial No. 222,686. Renewed Sept. 6, 1919. Serial No. 322,230. 14 Claims. (Cl. 261—108.)



1. An apparatus for cleaning, moistening and cooling air, comprising a liquid containing receptacle provided

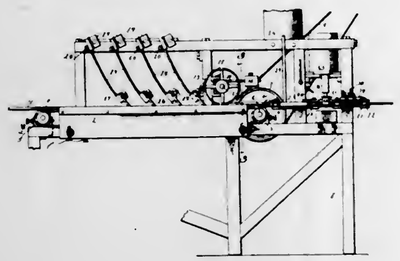
with openings, a series of baffles arranged beneath said receptacle, having wicks passing through said openings and resting in said receptacle for drawing liquid from the same, and intermediate baffles arranged between adjacent rows of said baffles and provided with double wicks which rest in said liquid receptacle and close said openings.

1,339,106. APPARATUS FOR COATING AND FINISHING FLOORING. ELMER C. DITTMAR, Williamsport, Pa. Filed Aug. 28, 1918. Serial No. 251,739. 20 Claims. (Cl. 91—13.)



4. In an apparatus of the kind described the combination with a movable support of a filler tank arranged to apply filler under pressure to the material on said support, revolving wipers arranged to wipe the filler applied transversely to the grain of the material for forcing the filler into the pores of the material and for removing any surplus therefrom and burnishers for smoothing the filler on the material.

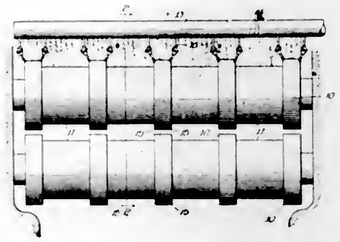
1,339,107. APPARATUS FOR COATING AND FINISHING FLOORING. ELMER C. DITTMAR, Williamsport, Pa. Filed Aug. 28, 1918. Serial No. 251,740. 16 Claims. (Cl. 91—13.)



5. An apparatus of the kind described, comprising a frame having a horizontally disposed guide-way, an endless conveyer working in said guide-way, a self feeding oil tray arranged in alinement with said conveyer, an oil pad adjustably mounted in said tray, and means for holding the strip, of material passing through said machine in contact with said pad under pressure.

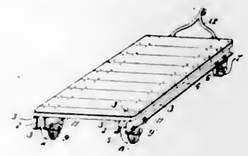
6. An apparatus of the kind described, having means for conveying a strip of flooring, means for burning the upper side of the strip, and means for coating the upper surface of the strip with varnish.

1,339,108. ROLL-COOLING MEANS. THOMAS D. HODGE, Duluth, Minn. Filed Sept. 6, 1918. Serial No. 252,857. 1 Claim. (Cl. 80—41.)



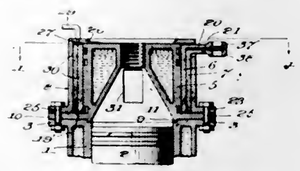
In a cooling system for metal working rolls having collars, the combination of means whereby a cooling medium may be supplied along the length of said rolls, and means whereby an additional supply of said cooling medium may be supplied to the collars on said rolls.

1,339,109. TRUCK. WILLIAM F. IRRGANG, Springfield, Mass., assignor to The Warren & Irrgang Company, Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 30, 1919. Serial No. 293,836. 1 Claim. (Cl. 280—49.)



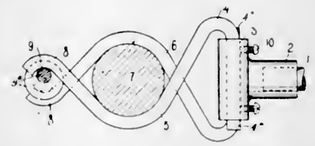
In a truck for commercial purposes, the combination with the platform thereof, of two pairs of channel iron supporting beams secured to the under side of the platform and near the outer edges of the same, said beams being spaced in parallel relation to each other and extending the entire length of the platform, supporting rollers located at the ends of the beams and midway in the space between said beams, the forward rollers or casters being of the swivel type and the rear casters or rollers of the fixed type, whereby the load is borne equally by the two pairs of beams and in line with the motion of the truck, and whereby a space between the innermost beams is provided for receiving an elevating truck.

1,339,110. OSCILLATING VALVE. ALFRED ROSS JARMAN, Philadelphia, Pa., assignor of one-half to R. Gordon Granville, New York, N. Y. Filed Feb. 16, 1918. Serial No. 217,543. Renewed Mar. 3, 1920. Serial No 363,082. 4 Claims. (Cl. 123—81.)



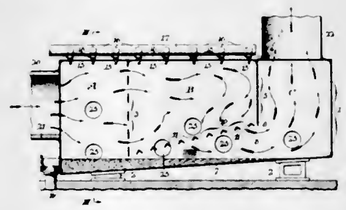
1. The combination with an internal combustion engine having a cylinder and reciprocating piston, of a water jacketed head on the cylinder having a wedge-shaped combustion chamber formed therein and situated beyond the limit of the compression stroke of the piston, with intake and exhaust ports in the parallel sides of the chamber near the apex, said head having a cylindrical outer surface, piston rings carried by said head countersunk in the outside surface above and below said intake and exhaust ports, a valve sleeve seated around said head against said piston rings, a second valve sleeve seated around said first mentioned sleeve, a retaining cap fitted over said head and sleeves, said sleeves and cap having opening in opposite sides arranged to register with the intake and exhaust openings in the head, and operating arms carried by each of said sleeves projecting radially from the top thereof through the side of the cap for oscillating said sleeves to cause the openings to register with the openings or ports in the cap and head on opposite sides alternately.

1,339,111. ELECTRODE-HOLDER. EINAR KAATEN, Eydehavn, near Arendal, Norway, assignor to A/S. Arendal Smelteverk, Eydehavn, near Arendal, Norway. Filed May 8, 1918. Serial No. 233,386. 3 Claims. (Cl. 176—119.)



3. A conductor terminal, a pair of crossed sinuous rods having straight shanks adjustably held in said terminal, said rods crossing each other at two points thereby forming an opening between the cross points for the reception of an electrode, and means to spread the free ends of said rods.

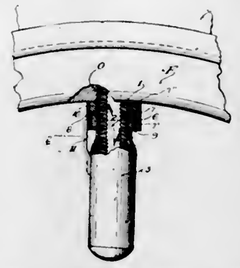
1,339,112. GAS-WASHING APPARATUS. JOHN S. KENNEDY, Philadelphia, Pa. Filed Jan. 15, 1919. Serial No. 271,194. 5 Claims. (Cl. 261—111.)



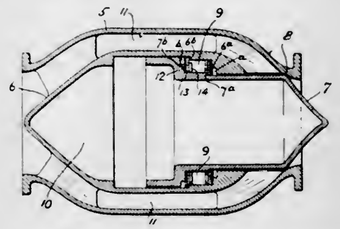
1. A gas washing apparatus comprising an inclosure divided into a plurality of separate unobstructed treating chambers, including a washing chamber wherein the gases are cleansed and a precipitating chamber wherein the suspended moisture is precipitated; in combination with means for subdividing the flowing gas in the washing chamber comprising a substantially horizontal grating therein in the path of the gases therefrom to the precipitation chamber; and means for directing spray wash water to the gases in said washing chamber.

1,339,113. NUT. THADDEUS KINNEY, Milwaukee, Wis., assignor of one-half to John Garlock, Milwaukee, Wis. Filed May 1, 1919. Serial No. 293,928. 4 Claims. (Cl. 152—12.)

1. The combination with a threaded valve stem having a longitudinally extending threadless portion of restricted width, of a cover cap removably disposed over the stem, one end of the cap being closed and the other end open, a thread portion of restricted width on the inner surface of said cap adjacent said open end, a nut member rotatable on said cap adjacent said open end, said nut member having a pair of spaced seats, a thread portion of restricted width on the nut member adapted to be alined with the first mentioned thread portion, said cap being slidable over said valve stem when the thread portions are alined and register with the threadless portions, said nut member being rotatable to shift the thread portions out of alinement, and a spring arm carried by the cap to snap into either of said seats when said nut member is rotated.

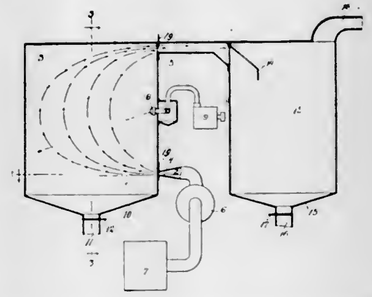


1,339,114. VALVE. CHESTER W. LARNER, Philadelphia, Pa. Filed Apr. 29, 1919. Serial No. 293,477. 2 Claims. (Cl. 137—139.)



1. In a valve of the type recited the combination of fixed and movable valve parts having between them a valve seat to stop flow through the valve and having inside the valve body cylindrical and annular chambers between which there is established a difference of pressure for operating the valve, opposed shoulders on the valve parts with the annular chamber between the shoulders and spring rings projecting respectively from the fixed and movable valve parts and adapted to coöperate with said shoulders independently of the position of the valve parts as fixed by contact at the valve seat.

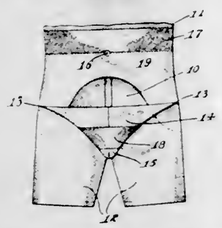
1,339,115. METHOD FOR DESICCATION. ADOLPH W. LISSAUER, WALTER L. FLEISHER, and ROBERT E. KEYES, New York, N. Y., assignors to American Drying Processes, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 27, 1919. Serial No. 285,527. 9 Claims. (Cl. 127—9.)



3. Method of desiccation which consists in forming an air sheet so that the same flows in a curved path having

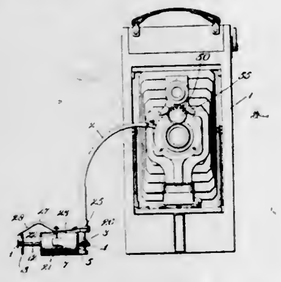
substantially the shape of a parabola and intersecting the said curved path of air by the current of an atomized substance directed substantially parallel with the axial plane of the curved path.

1,339,116. UNDERGARMENT. PHILIP A. LUCKETT, Philadelphia, Pa. Filed July 29, 1919. Serial No. 314,033. 5 Claims. (Cl. 2—144.)



5. A union undergarment having a drop seat supported in closed position by a single detachable fastener located adjacent the center of the back, the edges of said seat extending downwardly and outwardly from said fastener to the side seams of the garment, and a skirt portion connected to the upper back portion of the garment and extending downwardly beneath the seat, the lower edge of the skirt portion being located below and spaced from the upper edges of the seat throughout the entire width of the garment, said lower edge being curved upwardly adjacent the center line of the garment to prevent constriction of the body during forward bending movements.

1,339,117. TIMING DEVICE FOR CAMERAS. NORMAN S. MCEWEN, Nashville, Tenn. Filed July 7, 1917, Serial No. 179,257. Renewed Sept. 10, 1919. Serial No. 322,985. 2 Claims. (Cl. 161—26.)

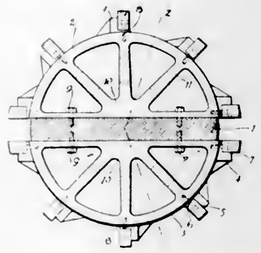


1. In a timing device for cameras the combination of a cylinder; a shutter-control actuating lever pivotally carried by said cylinder; means on said lever to engage one portion of the shutter controlling means carried by the camera; adjustable means on said cylinder to engage another portion of said shutter controlling means; a spring in said cylinder; a piston having a piston rod in said cylinder adapted to be moved by said spring; and means controlled by said piston rod for rocking said lever about its pivot and thereby causing said portions of said shutter controlling means to approach one another, substantially as described.

1,339,118. REAMER-FRAME. ROBERT S. MACEWAN, Troy, N. Y. Filed Nov. 26, 1919. Serial No. 340,961. 5 Claims. (Cl. 77—72.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A reamer frame comprising a plurality of parts adapted to support guide blocks, said parts, when assembled to the reamer frame, conforming to the circumference of a circle.

2. A reamer frame comprising segmental parts having projecting lugs, means for securing guide blocks in said lugs, and means for securing said segmental parts to the reamer body.

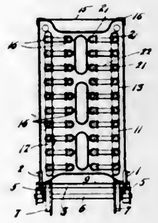


3. A reamer frame comprising segmental sections adapted to be secured to the reamer body, lugs projecting from said segmental parts and guide blocks secured in said lugs whereby said reamer body is guided and supported in front of the reamer blades.

4. A reamer frame comprising segmental sections adapted to be secured to a reamer body, a plurality of lugs projecting from said segmental sections, each lug having a shoulder formed therein, a guide block abutting said shoulder and means for securing the blocks to said lug.

5. A reamer frame comprising segmental sections having a hub portion, a rim portion, spokes extending radially from said hub portion for supporting said rim, a plurality of lugs projecting from said rim portion, wood blocks detachably secured to said lugs and means for securing said sections to the body of a reamer.

1,339,119. PIPE-RACK DRIER-CAR. JAMES P. MARTIN, Lancaster, Pa., assignor to Raymond C. Penfield, Chicago, Ill. Filed July 18, 1917. Serial No. 181,403. 3 Claims. (Cl. 34—39.)

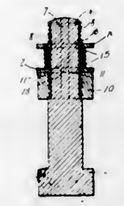


1. A multiple pipe rack drier car of the kind described, comprising a truck, a plurality of horizontally arranged steam pipe racks, forming shelves, each rack comprising a plurality of pipes, a vertically extending manifold for said pipes at one end of the car, means permitting independent expansion and contraction for the pipes forming each shelf, and supply and exhaust means for the circulation of steam through the pipes in each rack.

1,339,120. NUT-LOCK. BENJAMIN MILEY, Walla Walla, Wash. Filed June 24, 1919. Serial No. 306,341. 3 Claims. (Cl. 151—13.)

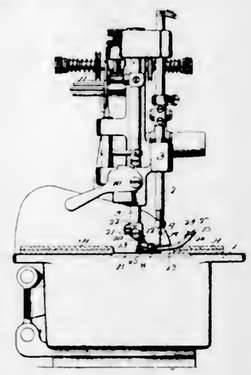
2. In combination with a bolt having a threaded portion, and having two sets of longitudinal grooves, and one set of circumferential grooves, a nut having opposed shoulders, a washer having a spring lug, and having inwardly extending tongues, said spring lug adapted to coöperate with one of the shoulders of the nut, for locking the nut and washer together, said tongues, adapted to be positioned in one set of the longitudinal grooves, a washer having inwardly extending tongues, coöperating with the other

set of longitudinal grooves, a coiled spring interposed between the washers, for forcing the same in opposite



directions, said tongues of the last named washer adapted to be guided to the circumferential grooves, by their passage through the longitudinal grooves.

1,339,121. PRESSER-FOOT FOR SEWING-MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 16, 1915. Serial No. 34,427. 8 Claims. (Cl. 112—235.)



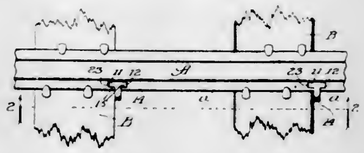
1. A presser foot for sewing machines comprising a foot portion having a rigid rear section and a rigid forward section pivoted to the rear section at a point intermediate said sections, a stop for limiting the upward swinging movement of the forward section, whereby both sections will be bodily raised upon continued upward pressure exerted against the forward section, means for automatically engaging the chain of loops in rear of the needle when the foot portion is bodily raised, and a spring for normally depressing the forward section.

1,339,122. EXHAUST-GAS HEATER FOR AUTOMOBILES. FREDERICK L. MONTROSS, Camden, N. J., assignor of one-half to himself and one-half to Harry A. Montross, Camden, N. J. Filed Apr. 16, 1917. Serial No. 162,359. 3 Claims. (Cl. 257—16.)



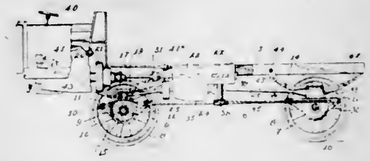
2. A heating element for an exhaust gas heater comprising a cylindrical casing, heads therefor having inlet and outlet gas connections and a spirally-wound heat conducting element of generally truncated conical form having the end of smaller diameter toward the inlet connection.

1,339,123. RAIL-ANCHOR. CHARLES B. MOORE, Evanston, Ill. Filed Jan. 19, 1920. Serial No. 352,475. 13 Claims. (Cl. 238—321.)



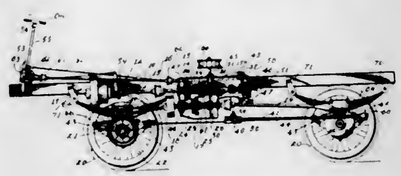
7. A rail anchor having a jaw adapted to grip a rail base flange upon its top and bottom, the upper gripping member of said jaw being broader than its lower gripping member.

1,339,124. MOTOR-TRUCK CONSTRUCTION AND DRIVE. WALTER S. MORTON, Harrisburg, Pa. Filed Oct. 30, 1915. Serial No. 58,824. 8 Claims. (Cl. 180—50.)



1. In a motor-truck, in combination, wheels and a pair of axles supported by said wheels, each of said axles including an axle-housing and a shaft within the same for driving the wheels, a fifth-wheel member carried by each axle-housing, an upper fifth-wheel member seating upon the same, a frame, springs connecting said frame with said upper fifth-wheel members, said fifth-wheel members permitting a swinging movement of each axle about its middle point in a substantially horizontal plane to steer the vehicle, a gear casing attached to the upper portion of each axle-housing and constituting a top wall therefor, a worm rotatably mounted in each gear casing above the adjacent fifth wheel and over the center of the adjacent axle, a differential in each axle-housing driven by its corresponding worm and driving the shaft of that axle to drive both wheels on that axle, a motor supported on said frame, and driving shafts driven by said motor and having flexible driving connections with said worms respectively to drive the same in any position the axles may assume in steering the truck.

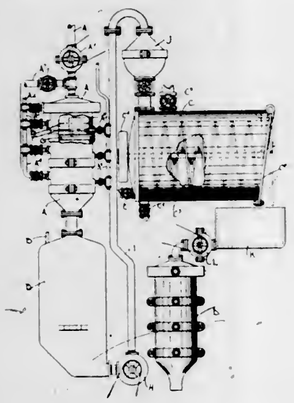
1,339,125. STEERING MECHANISM FOR MOTOR-TRUCKS. WALTER S. MORTON, Harrisburg, Pa. Filed Oct. 30, 1915. Serial No. 58,825. 15 Claims. (Cl. 180—81.)



1. In a steering mechanism for vehicles, in combination, a power-driven shaft, a driving member driven by said shaft in one direction, another driving member driven by said shaft in the opposite direction, a driven member, hand-operated power-controlling means for moving said driven member from a neutral position into engagement with either of said driving members to be driven thereby.

steering mechanism to control the wheels of the vehicle driven by said driven member, and hand steering means having a constant driving connection with said driven member for controlling the steering mechanism by hand when said driven member is in a neutral position out of engagement with both of said driving members.

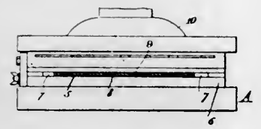
1,339,126. SOAP-MAKING APPARATUS. HARRY J. NICHOLLS, Minneapolis, Minn. Filed Dec. 3, 1917. Serial No. 205,118. Renewed Jan. 12, 1920. Serial No. 351,053. 2 Claims. (Cl. 87—16.)



1. A mechanism of the kind described comprising a tank, several screens in the tank adapted to divide the same into successive compartments, means at the top of the tank for forcing a liquid into and through the compartments of the tank, means for forcing a gas into each of the compartments and an outlet from the tank adapted to permit the escape from the tank of the liquid and gas forced therein.

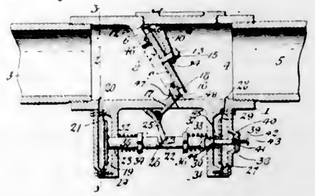
2. A mechanism of the kind described comprising a tank, several screens in the tank adapted to divide the same into successive compartments, means at the top of the tank for forcing a liquid into and through the compartments of the tank, means for forcing a gas into each of the compartments, additional means for forcing a different gas into each of the compartments and an outlet from the tank adapted to permit the escape from the tank of the liquid and gas forced therein.

1,339,127. MANUFACTURE OF PRINTING-PLATES. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes of Moorestown, N. J. Filed May 22, 1917. Serial No. 170,161. Renewed Oct. 16, 1918. Serial No. 258,485. 1 Claim. (Cl. 41—25.5.)



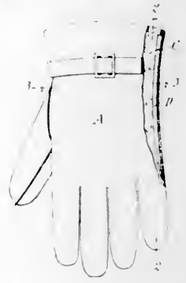
The herein described method of making a printing plate which comprises providing a suitable plate matrix, placing plate making material thereagainst, applying suitable makeready in a predetermined position against the back of the plate material, then subjecting the matrix and makeready and the plate making material to pressure to mold the plate against the matrix and to produce in the back of such plate regularities and irregularities in conformity with the makeready employed, then removing the makeready and matrix, and then subjecting the plate to pressure against a yielding body and between the platens of a press to force the regularities and irregularities from the back to the printing face of the printing plate.

1,339,128. AUTOMATIC CHECK-VALVE MECHANISM. MARK B. NYE, Buffalo, N. Y. Filed Nov. 4, 1919. Serial No. 260,977. 11 Claims. (Cl. 251—125.)



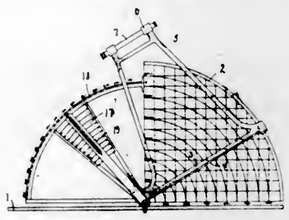
1. An automatic check valve mechanism, comprising a valve body having a fluid inlet and a fluid outlet, a valve seat arranged between said inlet and outlet and facing toward said outlet, a leak groove arranged in said valve seat, and a drain passage leading from said groove to the exterior of said valve chamber, a valve disk movable toward and from said seat and leak groove and provided with a bearing point at its edge, a rock arm pivoted on said body within the outlet thereof and opposite the bearing point of the valve disk and pivotally connected with the central part of said disk, and a shifting member adapted to engage said bearing point and be moved by fluid pressure in the inlet of said body.

1,339,129. GLOVE. ARTHUR N. OATHOUT, Gloversville, N. Y., assignor to C. L. Van Doren, Inc., Gloversville, N. Y., a Corporation of New York. Filed June 14, 1919. Serial No. 304,097. 4 Claims. (Cl. 2—9.)



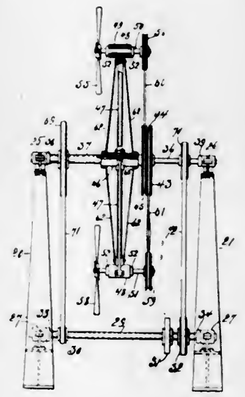
1. A glove having an outer shell and an inner fur lining and having extensible means inserted in the fur lining.

1,339,130. APPARATUS FOR DETERMINING THE ELEVATION AND DISTANCE OF AN AERIAL MARK FROM A BATTERY. NILS OVERAAS, Tonsbergfjordens, Befaestninger, Norway. Filed Sept. 28, 1918. Serial No. 256,094. 7 Claims. (Cl. 33—67.)



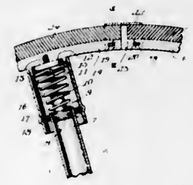
1. In apparatus for determining the elevation and distance of an aerial mark from a battery, a horizontal map plate or disk, a vertical plate or disk movable about a vertical axis on said horizontal plate, a sighting telescope movable in a vertical plane parallel to said vertical plate or disk, and indexes on said horizontal map plate corresponding to and capable of being set to the azimuth of the direction of sight at a distant sub-station.

1,339,131. DRYING APPARATUS. FRANK PATRONO and NICOLA PATRONO, Mount Vernon, N. Y. Filed July 10, 1918. Serial No. 244,184. 2 Claims. (Cl. 230—1.)



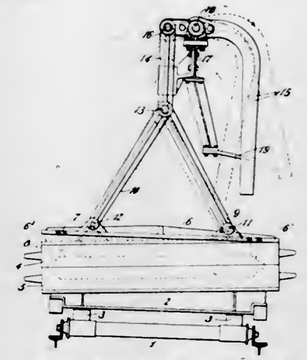
1. In a drying apparatus the combination of a rotating supporting shaft, a tubular shaft journaled on the supporting shaft, a cross secured to the tubular shaft, a pair of tubular arms with one end of each extending from said cross, a T supported on the other end of each tubular arm, two pairs of tie rods conecting said cross and said T's, a pair of tie rods with one end of each connected to one of said T's and their other ends fastened to the other T, a pair of struts extending from said cross and supporting the central portion of the latter tie rods, an axle journaled in each T, a fan wheel fastened to each axle and means to rotate said fan wheels from said supporting shaft.

1,339,132. SPRING-WHEEL. TONY N. PETROVIC, Pleton, Colo. Filed Sept. 15, 1919. Serial No. 323,710. 3 Claims. (Cl. 152—53.)



1. A spring wheel comprising in combination with a hub having radial tubular spokes connected thereto, plugs removably fastened in the outer ends of said spokes and having compression springs resting upon said plugs and encircling said posts at their inner ends, a plurality of connected felly sections having free circumferential movement toward and away from each other and provided with inwardly directed bosses, the outer ends of said springs being detachably fastened to the felly sections centrally of said bosses, inwardly extending sleeves detachably secured to said bosses and surrounding in spaced relation the outer ends of said spokes, and yieldable washers interposed between the outer ends of said spokes and the inner ends of said sleeves.

1,339,133. COMBINED MOLD-POURING AND WEIGHTING UNIT. CLARENCE K. PRINCE, Westfield, Mass. Filed Aug. 9, 1919. Serial No. 316,467. 7 Claims. (Cl. 22—112.)



1. In a combined apparatus for weighting and pouring flasks, the combination of a weighting plate to engage the flask, links connected thereto, and operating device for the links, a bottom board for the flask and means for supporting the bottom board and flask on a gravity runway.

1,339,134. PHENOLIC CONDENSATION PRODUCT AND PROCESS OF MANUFACTURING. LAWRENCE V. REDMAN, Evanston, and ARCHIE J. WEITH and FRANK P. BROCK, Chicago, Ill., assignors to Redmanol Chemical Products Company, Chicago, Ill., a Corporation of West Virginia. Filed June 6, 1918. Serial No. 238,479. 12 Claims. (Cl. 18—55.)

8. The process of producing a phenolic condensation product article, which comprises: mixing together initially a filler, a phenolic body and a methylene-amin body adapted to re-act anhydrously therewith; adding and mixing therewith a fusible phenolic condensation product and including in the mixture a sufficient amount of methylene-amin substance to complete the conversion to a hard, resistant product; and subjecting the materials thus compounded to molding and heat treatment to produce a hard, resistant body.

1,339,135. RAT-TRAP. JOHN W. RICHARDS, Ralston, Ky. Filed Oct. 8, 1919. Serial No. 329,347. 1 Claim. (Cl. 43—61.)

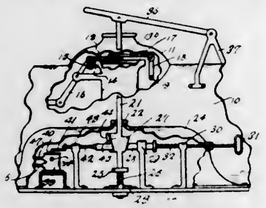


A trap comprising a plurality of separate compartments, each provided with a bait box, a baffle plate having a long rearwardly extending portion and a relatively short oppositely extending portion, said compartment having an inlet opening, a closure gate for the said inlet opening and adapted to be disposed in a horizontal position by engagement with said short end of the baffle plate whereby the baffle plate may be held in a substantially horizontal position when the trap is set, both said baffle plate and closure member being adapted for downward swinging movement when disengaged with each other so as to form two separate compartments.

1,339,136. RAILWAY SAFETY DEVICE. WELCOME A. ROCKWELL and CHRISTOPHER N. ROCKWELL, Groton, Conn. Filed Mar. 8, 1917. Serial No. 153,364. 5 Claims. (Cl. 246—186.)

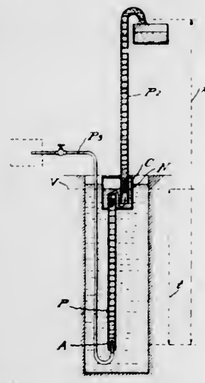
5. In a train controlling apparatus, the combination with a rod mounted in upright guides on a locomotive

and having a cam head, and means disposed at the track-side for depressing the rod; of means operable by the descent of the rod for closing the steam dome valve, a



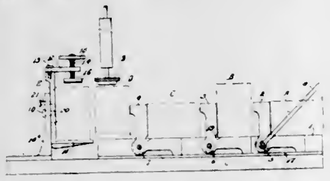
slide operable by the descent of said cam for setting the brakes, and a spring actuated bolt bearing against the cam.

1,339,137. AIR-LIFT APPARATUS. EDWIN M. ROGERS, New York, N. Y. Filed Aug. 29, 1919. Serial No. 320,652. 7 Claims. (Cl. 103—84.)



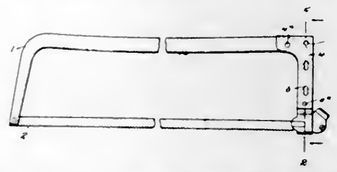
4. In an air-lift, in combination, a first air-lift column provided with means for aerating therein an up-flowing stream of liquid; a laterally closed chamber arranged for receiving a stream of aerated liquid from said first air-lift column; a second air-lift column leading out of said chamber and extending upwardly therefrom, and having an inlet in position for receiving from said chamber a stream of de-aerated liquid; and means appurtenant to said second air-lift column for re-aerating the liquid received from said first column, said means comprising an air-comminuting device in position for delivering the comminuted air into said second column.

1,339,138. BLOCK-TURNING APPARATUS. THOMAS ROTHERAM, Creighton, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Sept. 7, 1917. Serial No. 190,263. 7 Claims. (Cl. 214—130.)



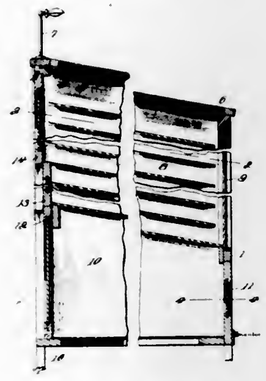
1. A turning device for blocks comprising a series of brackets, each having a pair of supporting members at substantially right angles to each other, the said brackets being pivoted adjacent the intersection of said members and limited to swing so that in one extreme position one member is substantially horizontal and in the other extreme position the other member is substantially horizontal, the said supporting members of adjacent brackets overlapping when one bracket is in delivering position and the other in receiving position.

1,339,139. ATTACHMENT FOR SAWS. ADOLPH OTTO SCHAEFER, Brooklyn, N. Y., assignor, by mesne assignments, to Atlantic Service Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 2, 1918. Serial No. 247,937. 4 Claims. (Cl. 145—33.)



4. The combination with the blade of the saw having relatively large openings in one end, of an attachment for the frame to be affixed to said end, said attachment having slots to be located adjacent said openings on both sides of the said blades, the atachment being adapted to secure a handle to said blade by bolts extending through said slots and said openings.

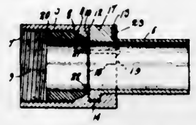
1,339,140. BLOTTING-PAPER CABINET. CHARLES WALLACE SELDEN, Richmond, Va. Filed June 26, 1919. Serial No. 306,979. 2 Claims. (Cl. 211—7.)



1. A cabinet having an inclined top provided with compartments inclosed by panels of glass, a pair of doors pivotally mounted on the top of said cabinet, said doors having frames provided with spaced glass panels adapted to receive sheets of blotting paper.

1,339,141. HOSE-COUPLING. MATTHEW C. SHARPNACK, Jamison, Nebr. Filed Apr. 2, 1918. Serial No. 226,257. 2 Claims. (Cl. 285—143.)

1. A hose coupling, which comprises female and male members, adapted to be coöperatively connected together to form a water-tight joint, the female member being provided adjacent one end with a socket having tapered walls, the male member being provided with a flange having a varying thickness and adapted to be seated in the socket of the female member, the female member being threaded interiorly and provided with tapering walls adjacent the socket, a threaded gasket adapted to engage with the threads of the member, and having its forward



end portion tapered, said end being adapted to be forced into engagement with the end of the male member to form a water-tight joint, and means to secure the members together.

1,339,142. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,571. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose, ammonium iodid, and iodin.

1,339,143. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,572. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose and iodin.

1,339,144. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,573. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose, litharge and iodin.

1,339,145. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,574. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose and lead iodid.

1,339,146. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,575. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose, copper iodid and iodin.

1,339,147. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,576. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose, ammonium iodid, iodin and magnesium.

1,339,148. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,577. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose, mercury sulfid, cobalt oxid, and iodin.

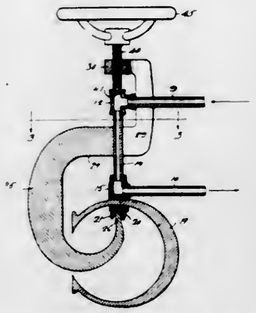
1,339,149. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,578. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose and mercurous iodid.

1,339,150. COLORED SMOKE. EDWIN C. WEISGERBER, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,579. 2 Claims. (Cl. 52—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose and naphthalene.

1,339,151. VULCANIZER. GEORGE S. ANDRUS, Akron, Ohio. Filed July 3, 1919. Serial No. 308,637. 14 Claims. (Cl. 18—18.)



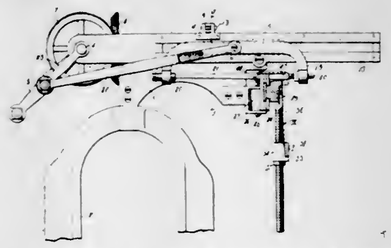
11. A vulcanizing device comprising a narrow supporting frame, a heating element carried by such frame, a clamping member slidably and non-rotatably embracing said frame, and means for urging a portion of said clamping member against said heating element.

1,339,152. PROCESS OF MANUFACTURING CUTTING-TOOLS. HOWARD P. ARNOLD, Rockland, Mass. Filed July 17, 1919. Serial No. 311,599. 1 Claim. (Cl. 76—101.)



The process of manufacturing a cutting tool which consists in first forming the body of the tool; second, forming cutter blade seats therein; third, forming the cutter blades to fit said seats; fourth, forming recesses in the bottoms of the cutter blades; fifth, inserting in said recesses small amounts of brazing material fusible at or below the temperature required to harden the blades; sixth, placing said cutter blades with the inserted brazing material in said seats; seventh, heating the tool to a proper temperature for hardening the blades and thereby melting the brazing material and causing it to flow by capillary attraction between said blades and seat walls; and eighth, in cooling the tool.

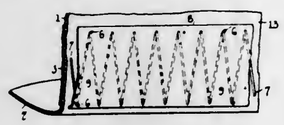
1,339,153. SAW-FILING MACHINE. WILLIAM BANK, Chicago, Ill. Filed Mar. 13, 1919. Serial No. 282,252. 6 Claims. (Cl. 76—35.)



1. In a saw filing machine, a main frame, a saw guide pivoted thereto, at one end to swing laterally, means at

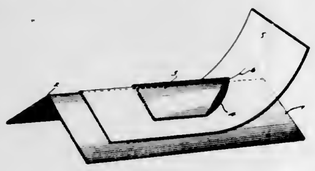
the opposite end of the frame for securing the saw guide in the adjusted position, a saw holder slidable on the guide, and means for feeding the saw.

1,339,154. HAT-VENTILATION MEANS. WILLIAM HENRY BAUERT, Roseville, New South Wales, Australia. Filed Sept. 23, 1918. Serial No. 255,400. 3 Claims. (Cl. 2—114.)



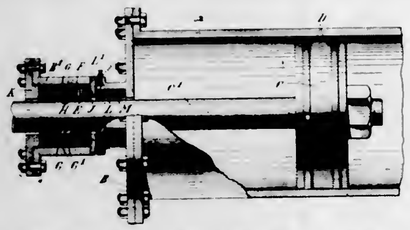
3. The combination with the crown of a hat, of a head surrounding hollow ventilator element arranged therein, said ventilator element being formed of a section of wire bent into a plurality of upstanding turns, said turns including upper and lower substantially horizontal transverse elements and inner and outer approximately vertical elements connecting the transverse elements, the transverse elements being horizontally spaced and the approximately vertical elements being spaced laterally.

1,339,155. STATIONERY APPLIANCE. EDWARD PIERREPONT BECKWITH, Garrison, N. Y. Filed Oct. 24, 1919. Serial No. 332,955. 5 Claims. (Cl. 120—8.)



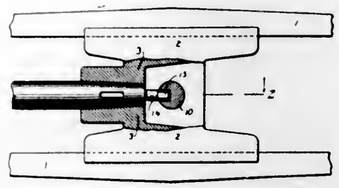
1. A stationery appliance, including a base plate provided with a ridge, said base plate being adapted to receive a sheet of paper from which a crease is to be eradicated, such crease overlying said ridge, and means mounted upon such base plate and paper adapted to coact with the same for eradicating said crease.

1,339,156. MEANS FOR PACKING JOINTS. WILLIAM ROBERT BELDAM, London, England. Filed Aug. 22, 1919. Serial No. 319,103. 6 Claims. (Cl. 286—14.)



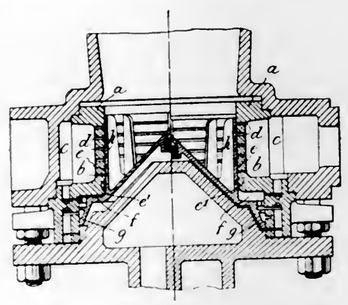
1. The combination, with a metallically-packed fluid-tight joint comprising two members that are movable one relatively to the other, and paramagnetic packing-material carried by one of said members for forming a fluid-tight joint with the other of said members which is also composed of paramagnetic material, of magnetizing means arranged so that its flux traverses the packing material and the paramagnetic member to tend to pull the same together.

1,339,157. EXPELLING-PIN. DANIEL J. BELL, Salamanca, N. Y. Filed Apr. 18, 1919. Serial No. 291,066. 4 Claims. (Cl. 29—86.1.)



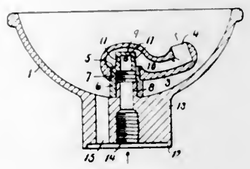
1. An expelling pin capable of removing piston rods from cross heads comprising in combination, an insert pin provided with a channel extending the full length of the pin and a bore formed in the channel, an expelling key adapted to be confined in the bore and channel of the insert pin, and means inserted in the channel for exerting pressure against the expelling key for forcefully engaging the piston rod to be removed.

1,339,158. APPARATUS FOR PRODUCING SOUND. JÖRGEN BJÖRNSTAD, Reading, England. Filed Sept. 8, 1919. Serial No. 322,541. 6 Claims. (Cl. 116—147.)



1. Apparatus of the kind referred to, comprising a differential piston, a corresponding cylinder between which and the piston a cushioning space is provided and means whereby leakage of fluid from such space is prevented or reduced, for the purpose set forth.

1,339,159. DRINKING-FOUNTAIN. PETER W. BLAIR, Quincy, Mass., assignor to The Haydenville Company, Haydenville, Mass., a Corporation of New Jersey. Filed Jan. 7, 1918. Serial No. 210,626. 3 Claims. (Cl. 299—12.)



1. As an improved article of manufacture a drinking-fountain nozzle comprising a horizontal member having therein bottom and top openings at opposite ends, respectively, and a longitudinal passage with the bottom of which at one end said bottom opening communicates, and with the top of which at the other end said top opening communicates, a separable inlet sleeve attached to said

member and extending through said bottom opening, and having a perforated dome within said member and communicating with said passage, the major axis of said member being approximately at right-angles to the axis of said sleeve, and the axis of said top opening being oblique to the axis of said sleeve.

1,339,160. INSOLE AND METHOD OF MAKING SAME. JOHN W. BLAKENEY, Cincinnati, Ohio, assignor, by direct and mesne assignments, to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 26, 1915. Serial No. 63,544. 7 Claims. (Cl. 12—146.)



1. An insole comprising a body portion having a strip of fabric sewed to one face adjacent the edge thereof by stitches which extend centrally of said strip, said strip being up-folded to form a two-ply rib, a layer of canvas overlying said face of body material and embracing the up-folded plies, and means separate from the canvas layer for securely holding said plies together throughout while the canvas layer is being applied.

3. That method of manufacturing an insole having a lip or rib to which the welt and upper may be sewn, which consists in providing a tape or strip having one surface coated with adhesive, stitching said strip to the insole body with the adhesive coated side outermost with a line of stitches, so as to leave the edges of the strip free, turning up the free edges of the strip and bringing their adhesively coated surfaces together so as to form a two-ply rib, and then applying a reinforcing fabric to the rib.

1,339,161. SIZING OR SEPARATING APPARATUS. WILLIAM E. BRYAN, Akron, Ohio. Filed Sept. 30, 1916. Serial No. 123,119. 1 Claim. (Cl. 83—88.)



In a mechanical classifier or separator, an inclined reciprocating deck having longitudinally extending tapered riffles, a pipe extending along the crest of the deck and having a funnel-shape inlet, and an inclined feed board disposed above the upper rear portion of the deck and provided with riffles similar in character to those of the deck and arranged to discharge portions of the material upon the table and into said pipe.

1,339,162. SWAGGER-STICK. JAMES M. CALLAHAN, Washington, D. C. Filed Mar. 21, 1919. Serial No. 284,056. 4 Claims. (Cl. 135—47.)



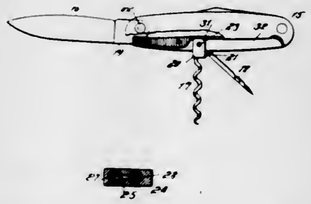
3. A swagger stick comprising a handle having an engaging implement at one end in the form of a hook, constructed of twisted wire strands, the outer portion of which hook is bent angularly and outwardly to form an outer engaging head, and the strands of which are bent into permanently spaced relation along a portion of the said head to form between them a receiving slot, for the purpose described.

1,339,163. HOLDER FOR LIQUID-CONTAINERS. WILLIAM F. CLOSE, Waterloo, Iowa. Filed Jan. 9, 1919. Serial No. 270,358. 1 Claim. (Cl. 248—20.)



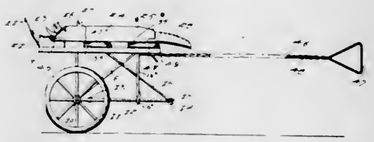
Holding-means for liquid containers, comprising a rod bent and having its ends united to form an inverted V-shape hanger adaptable to receive varying widths of projecting supports between its divergent members, the lower parts thereof being offset, a resilient split-ring fixedly mounted on the offset parts, and the lower parts of the said offset parts being bent into a closed loop crossing and underlying the bottom of said split-ring to support a container removably clasped by the split-ring.

1,339,164. POCKET IMPLEMENT. WILLIAM ROCKWELL CLOUGH, Alton, N. H. Filed June 28, 1918. Serial No. 242,342. 3 Claims. (Cl. 65—48.)



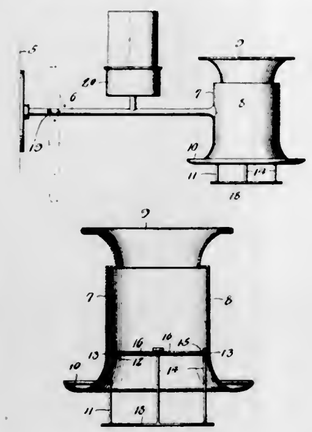
1. A handle comprising opposite sides and a back spring, having, in combination, a tang coöperating with said spring, and pivotally secured between said sides, and a spirally coiled wire cork-screw having a worm and shank in one integral piece, said shank having at its outer end a folded over portion or return bend, and said tang having a socket holding said outer end of said shank and also having a portion of its metal interposed between portions of the members of said return bend.

1,339,165. TOY. FONZO M. COLLINS and JAMES H. GLENN, Holtville, Calif. Filed June 13, 1917. Serial No. 174,538. Renewed Oct. 28, 1919. Serial No. 334,098. 4 Claims. (Cl. 46—45.)



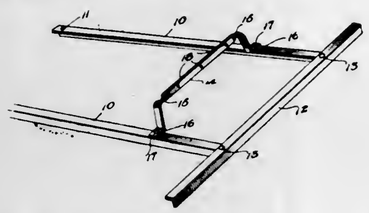
1. A toy comprising a platform, a frame secured to the under side of the platform, a crank shaft journaled in the frame, wheels journaled on the crank shaft, a figure having movable legs and tongue mounted upon the upper side of the platform, and means connected to the crank shaft and to the figure for moving the legs and tongue of the figure upon rotation of the wheels.

1,339,166. SOAP-CONTAINER. WILLIAM ANDERSON COLLINS, Vancouver, British Columbia, Canada. Filed Dec. 19, 1919. Serial No. 346,179. 3 Claims. (Cl. 45—28.)



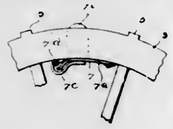
1. In combination with a fixed support, of a soap container fixedly secured to the support and comprising a receptacle adapted to contain a cake of soap, a dispensing frame slidably mounted within the receptacle, and means pivotally connected to the upper edge of the frame for inward horizontal swinging movement and serving to discharge the soap supported thereon upon movement of the frame within the receptacle.

1,339,167. BUMPER. JOSEPH J. CONDRAN, New Orleans, La. Filed Jan. 6, 1920. Serial No. 349,670. 1 Claim. (Cl. 293—55.)



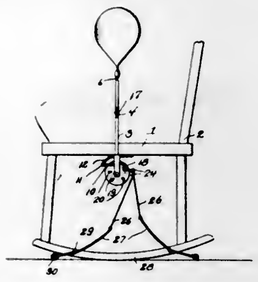
A bumper for vehicles comprising side bars adapted to have their inner ends secured to the vehicle, a cross bar secured to the outer ends of the side bars and a combined brace bar and bracket connecting the side bars and arranged parallel to the cross bar, said brace bar and bracket comprising a strip of metal bent at each end to provide an intermediate offset portion having its width vertically arranged and provided with openings for the attachment of a license tag and tail light and its extremities secured to the side bars.

1,339,168. AUTOMOBILE-WHEEL. HARRY S. COX, Clayton, N. Mex. Filed June 17, 1919. Serial No. 304,741. 2 Claims. (Cl. 152—21.)



1. The combination in a rim construction, of a felly having radial apertures, a removable rim member on the felly and having sockets in registration with such apertures, spring strips connected to the inner side of the felly and having tongues extending through said apertures and into the said sockets, and loop-shaped levers fulcrumed at the inner side of the felly and normally receiving in their loops the free end portions of the spring strips.

1,339,169. FAN. JOHN DAUSTER, Wilkinsburg, Pa. Filed Mar. 20, 1918. Serial No. 223,567. 1 Claim. (Cl. 230—7.)



A fan attachment for rocking chairs comprising a tube, upstanding therefrom, a disk rotatably supported by the tube, a link arranged to be operated by the disk, a fan pivotally connected to the tube, a rod slidably mounted in the tube and connected to the fan and link, means for giving intermittent movement to the link when said chair is rocked and an adjustable coil spring arranged to regulate the speed of travel of said rod in a predetermined direction.

1,339,170. WINDOW-FRAME. HENRY P. DAVIS, New York, N. Y. Filed Mar. 23, 1918, Serial No. 224,109. Renewed Oct. 25, 1919. Serial No. 333,375. 1 Claim. (Cl. 296—145.)



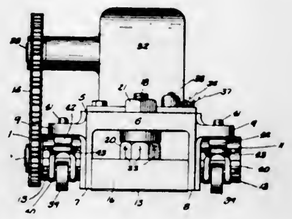
A window frame comprising a plurality of hollow sections, means on said sections for supporting a transparent panel, a flange on one of said sections, and an integral portion on the other section, said integral portion being arranged within the sections and provided with a flange disposed beside the first flange and with resilient terminal fastenings adapted to engage with the first flange to advance the same against said second flange.

1,339,171. TUMBLER-SWITCH. HENRY JOSEPH DEAN-OSCOOD, Loughborough, England, assignor to Herbert Watson Sullivan, London, England. Filed Apr. 24, 1919. Serial No. 292,265. 3 Claims. (Cl. 200—73.)



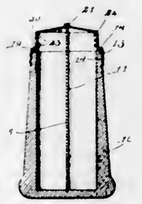
1. In a switch of the type described, the combination with a support, and a contact-piece mounted thereon, of a switch-arm having an inclined face rotatably mounted on the base and arranged to make and break contact with said contact-piece, and a tumbler that is mounted to rock on said support in a plane transverse to the plane of rotation of the switch-arm and is provided with an actuating arm having a leading edge arranged to coact with the said inclined face to rotate the switch-arm into contact with said contact-piece.

1,339,172. SURFACE TRIMMING OR PLANING MACHINE. THOMAS J. DEMPSEY, Corry, Pa. Filed Sept. 6, 1919. Serial No. 322,055. 2 Claims. (Cl. 144—117.)



1. A machine of the class described comprising a U-shaped frame at the opposite sides of which are bearings, a shaft mounted in said bearings, vertically adjustable blocks mounted in the opposite end portions of the frame, means on said blocks and in said frame for guiding said blocks in their vertical movement, a cylinder mounted on said shaft between said blocks, a plurality of cutter blades mounted in the periphery of said cylinder, means for holding said blades in position, the opposite sides of the frame being provided with projecting ears in which a plurality of rollers are movably mounted, springs mounted in connection with said rollers and adapted to support the load of the machine, an electric motor mounted on the frame, and means for gearing said motor in connection with said cylinder.

1,339,173. CONDIMENT-HOLDER. CHRIST DOULEDES, Schenectady, N. Y. Filed Apr. 19, 1919. Serial No. 291,264. 1 Claim. (Cl. 65—45.)



A condiment holder comprising a receptacle having a continuous groove arranged at the opposite sides of the receptacle and transversely of the bottom thereof, a partition slidably fitted in said grooves and dividing the receptacle into separate compartments, the upper end of said partition projecting above the receptacle and having its edge inclined from a central point downwardly and toward the sides of the receptacle, a cap threadedly associated with the receptacle and having its top formed with a transverse groove corresponding in shape to the adjacent edge of the partition which it receives, said groove and cap forming a continuation of the groove of the receptacle, and said cap at the opposite sides of the partition being provided with a plurality of perforations for the purpose described.

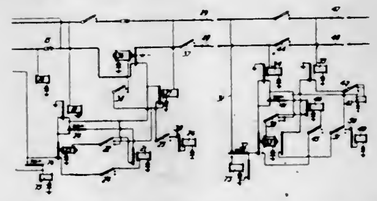
1,339,174. TRUNK AND SUITCASE FASTENER. CHARLES E. DUGGAN, Los Angeles, Calif. Filed July 15, 1919. Serial No. 310,903. 3 Claims. (Cl. 292—247.)

1. In a fastener of the class described, the combination with a plate having outstanding ears and a socket below them, a spring having one end mounted in the socket and its free end thrown normally forward between the ears, and a second plate having a keeper; of a lever having downturned sides and a downturned end flange narrower



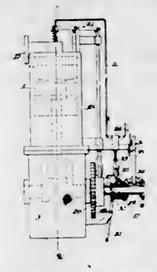
than the sides and in contact with the free end of said spring, a pivot between said ears and sides, and a ball pivoted at one end to said sides with its other end adapted to engage the keeper.

1,339,175. TWO-WIRE MULTIPLE AUTOMATIC TELEPHONE SYSTEM. BERT G. DUNHAM, Hawthorne, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Aug. 30, 1915. Serial No. 48,134. 12 Claims. (Cl. 179—18.)



1. In a telephone exchange system, a selector switch, conductors extending to said switch, means for receiving selecting impluses sent according to a predetermined code joined to one of said conductors, a source of current, and a testing device at said switch permanently connected to said source and to the same conductor.

1,339,176. INTERNAL-COMBUSTION ENGINE. LEONARD H. DYER, Greenwich, Conn. Filed Sept. 18, 1915. Serial No. 51,319. 3 Claims. (Cl. 60—16.)

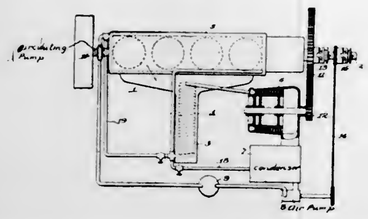


1. An internal combustion engine, having a combustion chamber and a piston, means for introducing and burning an explosive charge in the combustion chamber during a portion of the cycle of operation, means for introducing cooling water into the combustion chamber during another portion of the cycle of operation and means for varying the period of introduction of water, in relation to the movement of the piston.

1,339,177. POWER PLANT. LEONARD H. DYER, Greenwich, Conn. Filed Mar. 14, 1916. Serial No. 84,035. 2 Claims. (Cl. 60—11.)

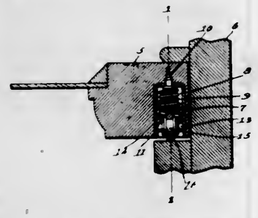
1. A power plant, comprising an internal combustion engine, a steam generator associated with the exhaust

thereof, and adapted to absorb heat from the exhaust gases of said engine, a steam turbine, actuated by the steam thereby produced, a condenser associated with the turbine, and an air pump associated with the condenser,



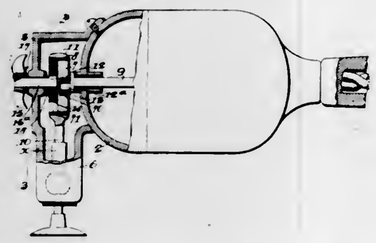
and adapted to produce a vacuum in the said condenser, means operated independently of the steam turbine for actuating the air pump, whereby the necessary vacuum can be made in the condenser, irrespective of the operation of the turbine.

1,339,178. WINDOW ATTACHMENT. MARBY P. DYSART, Huntington, Tex. Filed Jan. 21, 1919. Serial No. 272,321. 1 Claim. (Cl. 292—75.)



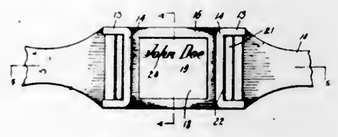
In combination with a slidable member and a guide in which the said member slides, and the said member having an elliptical socket entering from one of the sides thereof, of an elliptical casing having its outer end opened received in said socket and said outer end flush with the side of the slidable member, a compressible spring in the casing having its inner end convolution formed with an eye, a securing element passing through this eye, the inner wall of the casing and entering the slidable member, an elliptical-shaped hollow follower member in the casing having parallel notches at the outer end thereof and having a shouldered portion upon its interior to receive the outer convolution of the spring, a grooved wheel, a compressible band in the groove thereof, a laterally extending shaft therefor, and said shaft finding bearings in the notches in the follower.

1,339,179. VIBRATOR. GEORGE P. ELMEN, Lincoln, Nebr. Filed June 14, 1918. Serial No. 240,045. 3 Claims. (Cl. 128—48.)



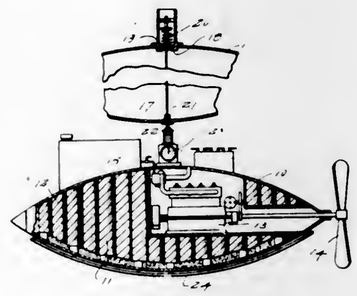
1. In a vibrator, a support, an applicator having longitudinal and lateral bearing in the said support, a drive shaft, a connection between the drive shaft and the said applicator, and means for varying the direction of movement of the applicator, the said means including a head block having rotatable connection and plunger movement with the applicator, the said head block having a transversely elongated socket in that face adjacent the drive shaft, a follower mounted in the said socket, and crank pin and disk connections that join the drive shaft and the follower, and means operable externally of the casing for setting the head block to locate the follower at a horizontal, a vertical or an midway position relatively to the drive shaft, said means including a tension device for holding the head block to the shifted position.

1,339,180. NAPKIN-RING. JULIUS ERDOES and ELMER SAS, New York, N. Y., assignors to The Metallograph Corporation, New York, N. Y., a Corporation of New York. Filed July 18, 1919. Serial No. 311,792. 2 Claims. (Cl. 40—21.)



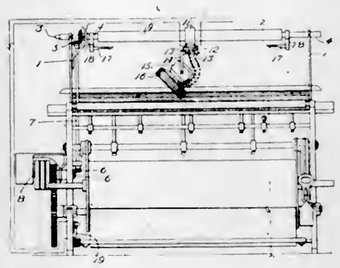
2. A napkin-ring, comprising a body portion having spaced ends provided with outwardly projecting substantially U-shaped extensions, said extensions being spaced from said ends and running in parallel relation thereto, and a tag-holder fitting between said extensions and body ends, said tag-holder comprising a back plate abutting against said body ends and the extensions thereon, and a front plate having projections engaging opposite edges of said extensions.

1,339,181. AERIAL TORPEDO. MARTIN H. FAHRENHOLZ, Norfolk, Nebr. Filed May 2, 1918. Serial No. 232,138. 1 Claim. (Cl. 244—1.)



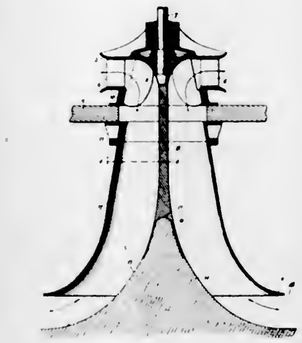
An aerial torpedo comprising a shell, an explosive charge in the shell, detonators positioned in the lower part of the shell, a shoe extending longitudinally of the shell beneath the same and having firing pins extending through the bottom of the shell in operative relation to the detonators, supporting means for the shell, propelling means for the shell; and means for releasing the shell from the supporting means at the expiration of a predetermined period of time.

1,339,182. PNEUMATIC LINT-CLEARER FOR WARPING-MACHINES. JAMES E. FARRELL, New Bedford, Mass., assignor to T. C. Entwistle Company, of Lowell, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1919. Serial No. 340,349. 9 Claims. (Cl. 28—14.)



1. The combination, with a warping machine, of a traveling blower, and means to change the direction of its blast from time to time to cause the latter to blow obliquely through the yarns in various controlled directions.

1,339,183. TURBINE. JOHN H. FELTHOUSEN, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1918. Serial No. 252,200. 5 Claims. (Cl. 253—17.)

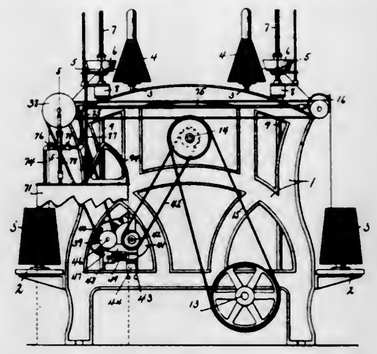


1. In a turbine, the combination with a runner, of a draft tube of comparatively short length and having a maximum flare at its outlet end, a stationary means extending into the draft tube from the direction of its flared outlet end and disposed centrally therein and terminating close to the center of the discharge end of the runner to maintain a hollow column of water from the runner to the outlet of the draft tube.

1,339,184. WINDING AND DYEING MACHINE AND METHOD OF WINDING AND DYEING YARN, THREAD, AND THE LIKE. JOSEPH A. FIRSCHING, Utica, N. Y. Filed Mar. 5, 1919. Serial No. 280,722. 18 Claims. (Cl. 8—19.)

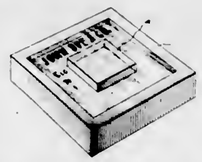
1. The method of dyeing spaced lengths of yarn traveling at a varying speed comprising synchronizing the application of dye to the yarn with the varying speed of the traveling yarn.

18. In a winding and dyeing machine, means for moving yarn longitudinally at varying speed, a dye applying element, and means for moving the yarn toward and from the dye applying element at alternate intervals varying in direct relation with the speed of the traveling yarn,



and means for giving to the yarn a rolling movement while in contact with the dye applying element.

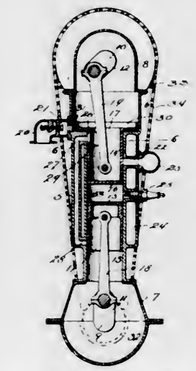
1,339,185. MATCH-LIGHTER. EDWIN J. FISHER, New York, N. Y. Filed Aug. 9, 1919. Serial No. 316,297. 1 Claim. (Cl. 51—20.)



A match igniter comprising a main plate and an abutment rigid upon the main plate, the abutment having an upper or main face across which a match may be moved freely, said face terminating in an edge united by a face at an angle to said main face, the said edge being entirely unobstructed, whereby a match moved freely across the main face may be ignited by contact with the same edge in crossing the same, as and for the purposes set forth.

1,339,186. [WITHDRAWN.]

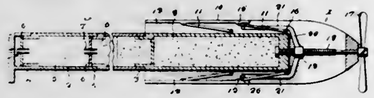
1,339,187. INTERNAL-COMBUSTION ENGINE. CEPHAS V. FITE and CHARLES C. CODDINGTON, Charlotte, N. C. Filed Jan. 30, 1919. Serial No. 274,015. 21 Claims. (Cl. 123—51.)



1. In an engine of the class specified, an interiorly unobstructed single main cylinder having a compression

cylinder at one end thereof, two oppositely disposed crank shafts respectively arranged near one end of the main cylinder and the outer end of the compression cylinder, two pistons mounted in the cylinder and connected to the shafts and movable toward and from each other, one of the pistons having means fixed thereto and movable therewith in the compression cylinder to compress the fuel toward the adjacent end of the main cylinder, and means for effecting a slower movement of one piston than the other.

1,339,188. AERIAL TORPEDO. JULIUS FRECSKA, Amsterdam, Ohio, assignor of one-half to Zigmond Frecska, Amsterdam, Ohio. Filed Nov. 20, 1918. Serial No. 263,375. 4 Claims. (Cl. 244—1.)



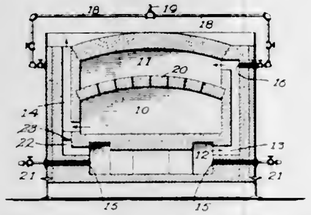
1. An aerial torpedo comprising a plurality of sections arranged in tandem formation, a propelling charge in one section, an initially fixed aerial supporting surface and wing spreading means carried by one section and operated by the flight of the torpedo.

1,339,189. FISHING-TACKLE. HERMAN R. FRENSDORF, Gibbs City, Mich. Filed Nov. 1, 1919. Serial No. 335,065. 3 Claims. (Cl. 43—45.)



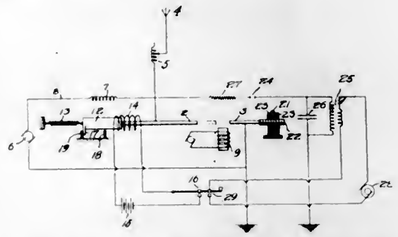
1. A trolling spinner comprising a short and a long vane, said vanes extending in substantially opposite directions, one being convex and the other one concave.

1,339,190. METHOD AND APPARATUS FOR CONTROLLING FURNACE-TEMPERATURE. GEORGE FREEMAN FULLER, Worcester, Mass. Filed Mar. 26, 1919. Serial No. 285,343. 13 Claims. (Cl. 263—1.)



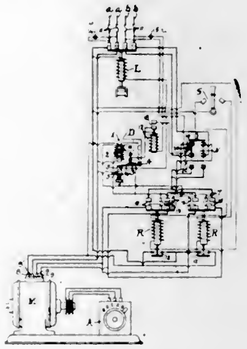
1. The method of controlling furnace temperature which consists in providing two gases of higher and lower temperature respectively than the desired furnace temperature, and in admitting said gases in varying quantities to the heating chamber of said furnace.

1,339,191. RADIOTELEGRAPHY. LEONARD F. FULLER, San Francisco, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Sept. 4, 1917. Serial No. 189,523. 11 Claims. (Cl. 250—19.)



1. An arc system for radio signaling, comprising two electrodes, means for maintaining an arc between said electrodes, means for increasing the distance between the electrodes to such length that the arc is extinguished and means for reëstablishing the arc.

1,339,192. REVERSE-PHASE RELAY FOR USE IN CONNECTION WITH POLYPHASE ALTERNATING-CURRENT CIRCUITS. ERNEST L. GALE, Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 30, 1915. Serial No. 69,355. 4 Claims. (Cl. 175—294.

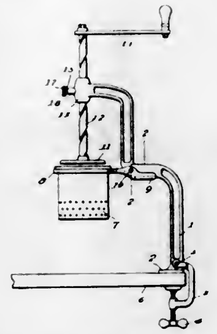


1. In apparatus of the class described, the combination with a motor, a source of alternating current supply, motor reversing switches, means dependent for current supply on the reversing switches and responsive to a phase reversal on the line automatically to disconnect the motor from the source of supply, and means arranged to designate an existing phase reversal on the line as distinguished from a disordered reversing switch.

1,339,193. PRESS. ROBERT H. GEHRKE, Libby, Mont. Filed June 27, 1919. Serial No. 307,224. 1 Claim. (Cl. 100—44.)

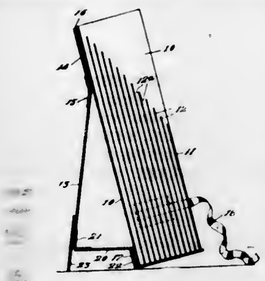
A device of the class described comprising a standard having inwardly extended portions, a clamp pivotally connected to the lower end of the standard, a perforated cylinder, a ring member removably supporting said cylinder and having a channeled extension engaging a

portion of the standard, a piston engaging said cylinder, a piston rod having a spiral groove therein, a head on the upper end of the standard having an opening therein



through which the piston rod passes, a crank connected to said rod and a spring plunger carried by the head and having its inner end engaging the groove in the piston rod.

1,339,194. HOLDER FOR DISK RECORDS. FRANK GRAMMICH, Brooklyn, N. Y. Filed Sept. 16, 1919. Serial No. 324,180. 3 Claims. (Cl. 211—24.)

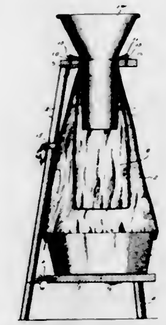


1. A holder of the class described including a box-like container, a front closure therefor hingedly connected to swing from the closing position at the front to a rearward position at the back of the container to constitute a support for the latter, the lower portion of said front closure being hinged and terminating in a lip at approximately right angles to said hinge member, said lip when said closure is in position at the front of the container being adapted to lie beneath the container, and means on the container at the back adapted to engage said lip when the closure is in the rearward supporting position.

2. A holder of the class described including a container having an open top and an open front, a closure for said top hinged to the upper end of the back of the container, a closure for said open front hinged to the forward edge of the top closure, said front closure comprising an upper portion, and a lower portion hingedly connected to the upper portion, said top closure being adapted to be positioned depending against the back of the container, with the upper portion of the front closure at an angle thereto and the lower portion of the front closure engaging the back of the container and maintaining said upper portion of the front closure in spaced relation to said back.

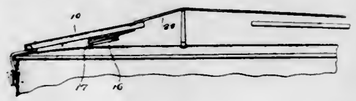
1,339,195. DRIP DEVICE. WILLIAM H. GROVER, Bay Shore, N. Y. Filed Oct. 24, 1919. Serial No. 333,089. 8 Claims. (Cl. 210—16.)

1. A device of the character stated, comprising a support having an opening therein, a receptacle adapted to be positioned on the support below the opening, a drip bag secured in the opening above the receptacle, and a



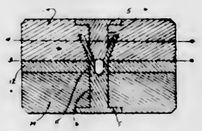
casing surrounding the bag and the upper end of the receptacle.

1,339,196. VIOLIN-TAILPIECE. ROBERT E. HALSTEAD, Los Angeles, Calif. Filed Dec. 27, 1919. Serial No. 347,718. 2 Claims. (Cl. 84—146.)



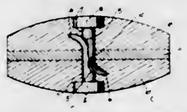
2. The combination with the tail-piece of a violin having an apertured central portion and having a slotted portion with undercut walls offset from the aperture, of a reel and a tapered stem for mounting the reel, said stem engaging the undercut walls of the slotted portion.

1,339,197. TWO-PART SELF-LOCKING RIVET. HORACE B. HEMINGWAY, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Aug. 29, 1919. Serial No. 320,547. 3 Claims. (Cl. 85—39.)



3. As a new article of manufacture, a two-part, self-locking rivet, consisting of two complementary parts each of which has a head, and a shank formed with four equi-distant longitudinal slots producing four equidistant longitudinal prongs, all of the same cross-sectional area, and the inner end of each slot having an outwardly inclined deflecting surface, and the outer end of each prong having an outwardly inclined deflecting-surface.

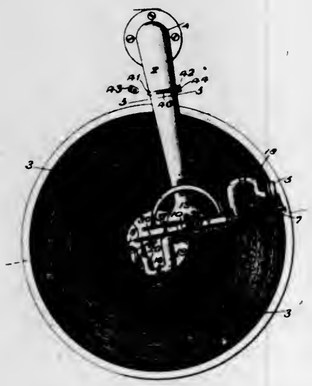
1,339,198. TWO-PART SELF-LOCKING RIVET FOR TOOL-HANDLES. HORACE B. HEMINGWAY, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Nov. 1, 1919. Serial No. 335,138. 1 Claim. (Cl. 85—39.)



A two-part self-locking rivet consisting of two identically alike complementary parts, each having an over-

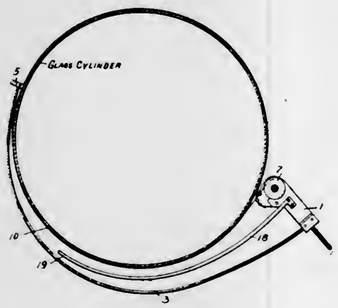
hanging head and a shank comprising a cylindrical butt and a semi-circular spur the face of which lies in the median longitudinal plane of the butt, there being a curved deflecting-surface between the face of the spur and its butt and the outer end of the spur being reversely curved to form a deflecting-surface.

1,339,199. REPEATING ATTACHMENT FOR TALKING-MACHINES. JOSEPH C. HITCHNER, Philadelphia, Pa. Filed Apr. 26, 1917. Serial No. 164,613. 16 Claims. (Cl. 274—15.)



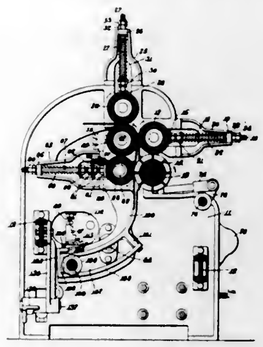
1. In a machine of the character described, the combination with the tone tube, of a tube slidable in said tone tube during the playing operation, and in communication therewith, sound boxes operatively connected with said tube, means to effect the relative adjustment of said sound boxes with respect to each other in accordance with the width of impression zone of a record, and means for alternately engaging said sound boxes with a record at opposite portions of its impression zone.

1,339,200. DEVICE FOR CAPPING OFF GLASS CYLINDERS. HARRY F. HITNER, Creighton, Pa., and TRAVIS E. OAKES, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed July 11, 1918. Serial No. 244,427. 12 Claims. (Cl. 49—50.)



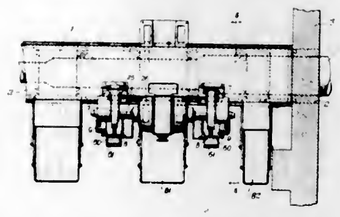
1. In combination in a capping off device, a terminal, a loop of heating wire connected to the terminal, and a second terminal having a contact clamp adapted to be attached to the loop at any desired point opposite the first terminal.

1,339,201. HIDE-WORKING MACHINE. ALBERT A. HUTCHINSON, Winchester, Mass. Filed May 10, 1917. Serial No. 168,040. 5 Claims. (Cl. 149—16.)



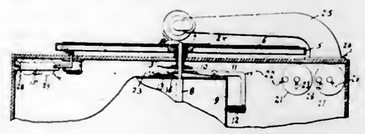
4. The combination with a working cylinder, of a pivoted rocker frame; a work-supporting roll mounted therein; a frame adapted to swing about the axis of said work supporting roll; a rubber covered bed roll carried by said swinging frame; means for moving said rocker frame toward the working cylinder; feed rolls adapted to coact with the work supporting roll; a fixed projection; and an extension to said swinging frame having a cam slot in which said projection is positioned, said cam slot being eccentric to the axis of the work supporting roll.

1,339,202. GRINDING, POLISHING, AND BUFFING MACHINE EQUIPMENT. FREDERIC S. KOCHENDORFER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 11, 1916, Serial No. 130,750. Renewed Mar. 16, 1920. Serial No. 367,127. 27 Claims. (Cl. 51—7.)



1. The combination with a polishing wheel having an adjustable hood with an opening therein, of an exhaust duct communicating with said hood, and means for adjusting said hood to maintain a substantially uniform exhaust for all diameters of wheels.

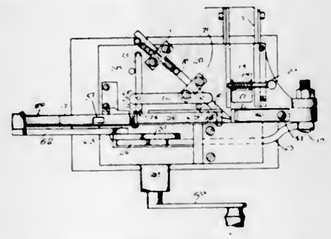
1,339,203. AUTOMATIC STOP AND START FOR PHONOGRAPHS. PAUL M. KRÉE and FERNAND DAUTEUIL, New York, N. Y. Filed July 28, 1919. Serial No. 313,752. 4 Claims. (Cl. 74—46.)



3. A phonograph comprising a table mounted to revolve, a brake mechanism for said table, electromagnetic means

to move said brake into engagement with the table, electromagnetic means for disengaging the brake from the table, open circuits for said electromagnetic means, means movable axially relative to the table for closing the circuit to the electromagnets, means for disengaging the brake from the table, and means adapted to be carried by the record and coöperate with the needle of the sound box for closing the circuit of the electromagnets to bring the brake into engagement with the table.

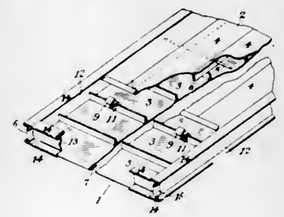
1,339,204. MACHINE FOR LOADING MACHINE-GUN CARTRIDGE-BELTS. RUDOLPH KRENZ, Middletown, Conn., assignor of one-half to Frank H. Frissell, Middletown, Conn. Filed July 20, 1918. Serial No. 245,840. 16 Claims. (Cl. 86—48.)



1. In a machine for loading machine-gun cartridge-belts, the combination with belt-feeding means, of cartridge-feeding means, and two opposed concave belt-gripping jaws arranged to grip the belt transversely and hold it against lateral deflection during the insertion of a cartridge into the pocket contained in the gripped portion of the belt which is held by the said jaws substantially throughout its width.

9. A machine for loading machine-gun carriage-belts, having belt-feeding mechanism including two reciprocating belt-feeders for successively engaging with the cartridge last loaded into the belt, on opposite sides of the belt, for feeding the belt step-by-step.

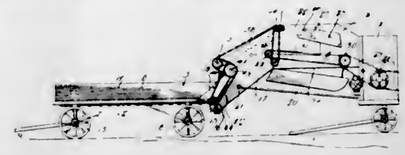
1,339,205. FIREPROOF DOOR. ELOF R. LEONARD, Woodcliff, N. J. Filed May 20, 1919. Serial No. 298,377. 4 Claims. (Cl. 189—46.)



4. A double, metal door having sides each composed of a plurality of sheet metal elements united by interiorly disposed interlocking lap-seam flanges extending inwardly at right angles to the plane of the side, the flanges of one side being disposed transversely to and bearing against those of the other side, a series of interiorly disposed anchors each secured through and carried by an interlocked flange of one side, a series of interiorly disposed anchor holds inserted through and carried by the flanges of the other side, and edge and end elements interlocking with the sides.

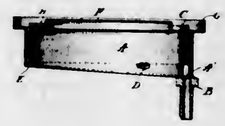
1,339,206. FEEDER FOR GRAIN-SEPARATORS. EARNEST MAX LIEBERS, Minden, Nebr. Filed July 20, 1917. Serial No. 181,806. 1 Claim. (Cl. 193—14.)

In a feeder for separators of the class described including a portable truck structure, an auxiliary supporting structure connected to and extending upwardly and rearwardly from the rear end of the truck structure and adapted to engage the rear end of the grain separator, of means carried by said auxiliary supporting structure for detach-



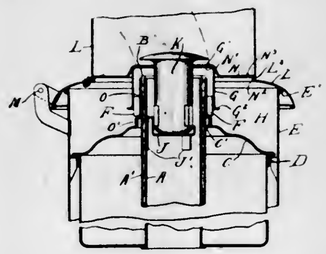
able connection with the side of the grain separator, said means comprising triangular shaped inserting members carried by the former and receiving members carried by the latter and provided at their forward ends with longitudinal recesses to receive said inserting member.

1,339,207. HYDROCARBON-BURNER. ALBERT J. LINDEMANN and WALTER C. LINDEMANN, Milwaukee, Wis., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 18, 1919. Serial No. 311,777. 16 Claims. (Cl. 158—87.)



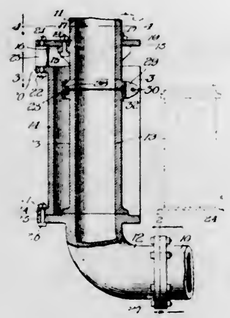
1. An annular trough comprising in its construction a trough proper, composed of sides and bottom, and having an inlet and outlet opening in said bottom, said bottom being inclined upwardly from said opening to a point distant therefrom, a portion of said bottom being elevated at said point, and the bottom inclining downwardly therefrom on both sides to said opening.

1,339,208. OIL HEATING-STOVE. WALTER C. LINDEMANN, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Filed June 19, 1919. Serial No. 305,408. 11 Claims. (Cl. 158—94.)



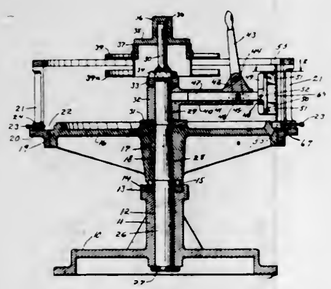
9. In an oil stove the combination of an annular wick, a cylinder surrounding the upper part of said wick, an annular shielding collar surrounding said cylinder and spaced therefrom to form an annular air passage, a common support on which all of said devices are mounted, a casing surrounding the said parts and spaced therefrom to provide an annular air chamber, a drum of greater diameter than said collar mounted on said casing and extending above the collar, wick and cylinder when the same are in normal position, a diaphragm in the lower part of said drum extending from the walls thereof to the collar, having a central opening of approximately the same diameter as the collar and having the edges of said opening in contact with the collar, but disconnected therefrom, whereby the said drum and diaphragm may be removed while the shield remains in position.

1,339,209. ASH-CONVEYING SYSTEM. DANIEL A. LIVENSPARGER, Battle Creek, Mich., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Nov. 2, 1917. Serial No. 199,930. 12 Claims. (Cl. 137—75.)



1. In a pipe line for conveying abrasive materials, the combination of two permanent pipe sections, means exterior of said pipe sections and extending between and connected therewith for maintaining the opposed ends thereof spaced apart the same distance at all times, and a third pipe section removably inserted between the separated ends of said permanent pipe sections and adapted to be detachably engaged therewith and having a length less than the distance that the opposed ends of said permanent pipe sections are spaced apart.

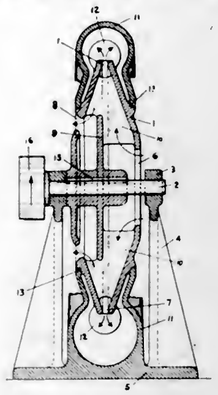
1,339,210. KNIFE-SETTING APPLIANCE. NELSON A. LOCKWOOD, Ogden, Utah. Filed Nov. 22, 1919. Serial No. 339,794. 12 Claims. (Cl. 29—84.)



1. In knife setting appliances, the combination with a main support adapted for the attachment of a series of removable supports, each mounting sets of suitably shaped slicing knives; of mechanical centering means, suitably associated with said main support and its attached knife-supports, operable to positively adjust said knives in proper alinement on their supports, substantially as described.

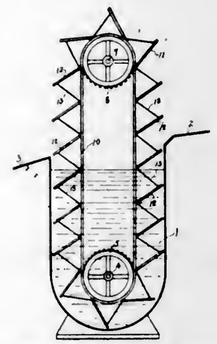
1,339,211. OXYGEN-CONCENTRATOR. GEORGE MCKERAHAN, Avonmore, Pa. Filed Jan. 27, 1920. Serial No. 354,509. 3 Claims. (Cl. 233—32.)

1. An atmospheric oxygen separator and concentrator consisting of a rotating circular vessel of large diameter in proportion to its thickness in the direction of its rotating axis; an air inlet on one side of the vessel immediately around said axis; an air outlet on the opposite side from said inlet and located between said axis and the periphery of said vessel and concentric with the latter; a second



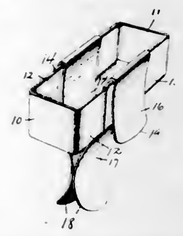
air outlet around the extreme periphery of the rotating vessel; substantially as specified.

1,339,212. SALTING-MACHINE. PERCY WILMOT MACKENROT, Vancouver, British Columbia, Canada. Filed Feb. 21, 1919. Serial No. 278,376. 4 Claims. (Cl. 99—2.)



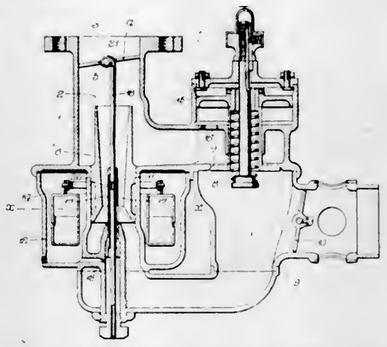
3. A salting machine comprising a brine tank, a shaft rotatably mounted within the tank and a shaft rotatably mounted exteriorly thereof, both said shafts being provided with sprockets on each end, link-belt chains passed around said sprockets, and spaced slats extending between and secured to the respective chains and arranged to form receptacles adapted to receive fish on one side of the tank, pass it through brine contained therein, and discharge it on the opposite side of the tank.

1,339,213. POCKET TOOL-HOLDER. MICHAEL MANNING, Newark, N. J. Filed Sept. 30, 1919. Serial No. 327,522. 7 Claims. (Cl. 24—3.)



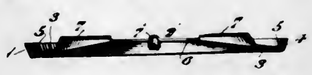
1. A pocket tool holder comprising two slidable members and clasps to hold them against sliding and to grasp a tool in the holder.

1,339,214. CARBURETER. FRANK C. MOCK, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1917. Serial No. 156,603. 4 Claims. (Cl. 261—41.)



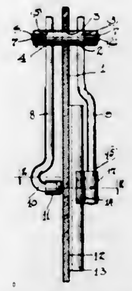
3. In a carbureter, a carbureting chamber having an air inlet and a mixture outlet, a throttle in said mixture outlet, a fuel nozzle feeding into said air inlet, and a tube extending through said nozzle and beyond said throttle, said tube being perforated whereby it is fed from the interior of said nozzle and having a feed outlet at the top open when the throttle is substantially closed and closed by the opening movement of the throttle.

1,339,215. FLAME-PROTECTOR. HARRY MORRIS, Haddonfield, N. J. Filed Dec. 15, 1919. Serial No. 344,858. 2 Claims. (Cl. 126—214.)



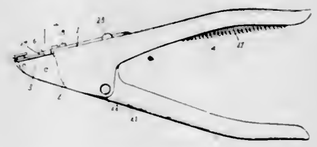
1. A flame protector comprising a sheet of material and having an opening and a body portion inclining downwardly from said opening and terminating in an upwardly extending flange to form a gutter, said body portion having portions thereof deflected above the edge of said opening in order to form a support for the article to be heated and also to form air passages leading to said opening and to permit the flame to pass around a container supported on said deflected portion.

1,339,216. WINDSHIELD-CLEANER. LAWRENCE H. MORSE and JAMES J. TRACY, Cleveland, Ohio; said Morse assignor to said Tracy. Filed Dec. 10, 1915. Serial No. 66,154. 4 Claims. (Cl. 15—59.)



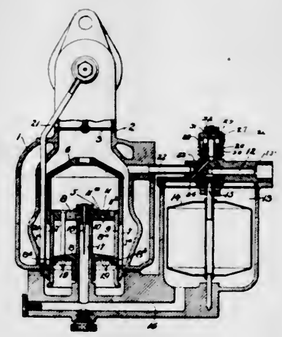
1. A wind-shield cleaner, comprising a bearing fixed transversely of the shield, a spindle loosely held in such bearing; two transversely disposed arms rigidly attached one to each end of said spindle, so as to lie on opposite sides of such shield; and an elongated cleaning element attached to one of said arms so as to be held in approximately parallel relation therewith, the other arm being disposed to movably contact with such shield at a point approximately opposite the middle of said cleaning element, whereby said cleaning element is pressed against such shield, and said spindle being both longitudinally movable in the bearing in said shield and oscillatory in the plane of the device about an axis passing through such point of contact of said other arm with such shield, whereby the pressure of said cleaning element on the shield is at all times automatically maintained uniform throughout the length of said element.

1,339,217. TOOL FOR APPLYING TIPS TO LACES. THOMAS P. MULDER, Kalamazoo, Mich. Filed Aug. 5, 1918. Serial No. 248,274. 4 Claims. (Cl. 81—15.)



4. In a lacing tip applying tool, the combination of a body member, a fixed rearwardly facing hook-shaped jaw overhanging the body member, the bottom of the jaw having a central rib and being curved at each side thereof so that when a U-shaped open tip is forced into the jaw with its open side inward, the edges of the tip are turned inwardly side by side to engage a lace disposed therein, a reciprocating jaw adapted to enter said fixed jaw, there being a space on said body member between said jaw when the reciprocating jaw is retracted on which th lace and tip may be arranged to be engaged by the recipro cating jaw on the actuation thereof and means for actuating said reciprocating jaw.

1,339,218. CARBURETER. EDWARD COVERLY NEWCOMB, North Scituate, Mass. Filed Oct. 25, 1915. Serial No. 57,632. 6 Claims. (Cl. 261—48.)

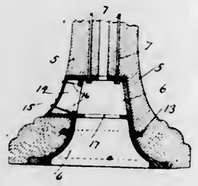


1. A carbureter comprising in combination a suction-controlled valve adapted to regulate the flow of air to the carbureting chamber, a chamber in said valve, a member having a fuel discharge port discharging into said chamber in said valve, ports in the side wall of said valve in open communication between said carbureting chamber and said chamber in said valve, and ports for admitting air to said chamber in said valve, said last mentioned ports being arranged to discharge air jets through said first mentioned ports into the carbureting chamber.

1,339,219. MANUFACTURE OF COLORS. GEORGE BURKE PALMER, New York, N. Y. Filed June 14, 1919. Serial No. 304,273. 5 Claims. (Cl. 134—58.)

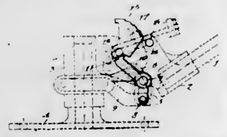
1. The method of manufacturing color pigment consisting in filtration of the sulfonic acid-derived pulp known as worms, and incorporation of a color carrier therewith.

1,339,220. CONCRETE LAMP-STANDARD. ELMER G. PERL and LEIGH C. BOSS, Minneapolis, Minn., assignors to Minnesota Cement Products Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Feb. 3, 1919. Serial No. 274,711. 4 Claims. (Cl. 72—85.)



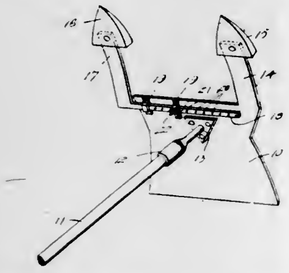
1. A monolithic concrete column and base having cast therein a hollow metallic anchoring shell that is provided at one side with a manhole forming flange that extends to the exterior of the column.

1,339,221. LOCKING DEVICE FOR DERAILED TROLLEY-ARMS. CHARLES EMILE PIGACHE and PIERRE PIGACHE, Paris, France. Filed May 18, 1917. Serial No. 169,594. 9 Claims. (Cl. 191—95.)



1. In a trolley mechanism, the combination, with a base, a socket pivotally connected therewith, and a pole fitted in said socket; of a movable locking member associated with the socket for holding the pole against upward movement; and a device normally retaining said locking member in ineffective position, but adapted to be operated mechanically by the movement of the socket when the pole leaves the wire to automatically release the locking member and thereby permit its movement into effective position.

1,339,222. COMBINATION HOE, EXTENSION-MARKER, AND WEEDER. JAMES R. RANDALL, Bonnie, Ill. Filed Aug. 19, 1919. Serial No. 318,494. 3 Claims. (Cl. 97—82.)



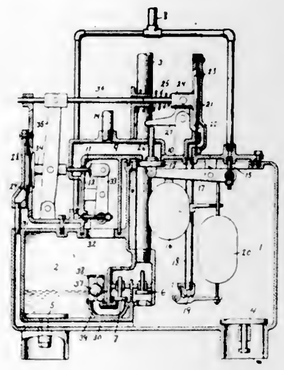
2. An agricultural implement of the character described comprising a hoe blade having an operating handle, an arm extending from the hoe blade adjacent one side, a weeding blade carried by said arm, a second weeding blade, an arm carrying said second weeding blade, an attaching bar extending from the second arm transversely across said hoe blade, means for slidably connecting the attaching bar with the hoe blade, and means for releasably holding the attaching bar in a set position.

1,339,223. MEANS APPLICABLE FOR USE IN MILLING SCREW-THREADS. GEORGE RICHARDS, Westminster, London, England. Filed June 9, 1919. Serial No. 302,922. 3 Claims. (Cl. 10—154.)



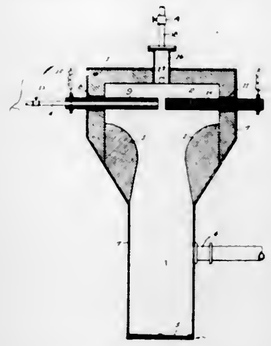
1. In milling machines of the character wherein the cutter and the work rotate, without axial movement of either, at synchronized speeds, the herein described automatic means for preventing the formation of facets upon the surface machined; same consisting in a face cam arranged to abut against the extremity of the worm whereby the cutter is driven, in conjunction with means for rotating the face cam at a speed slightly different from that imparted to the said cutter with the effect that the worm is caused to partake of a gradual axial movement in one direction, thereby slightly accelerating the rotative speed of the cutter relatively to that of the work, and then to partake of a gradual axial movement in the opposite direction whereby the relative speed of the cutter is correspondingly retarded.

1,339,224. PNEUMATIC PUMP. HOMER S. ROGERS, Milwaukee, Wis., assignor to John R. Ball, Milwaukee, Wis. Filed June 14, 1918. Serial No. 240,008. 5 Claims. (Cl. 103—8.)



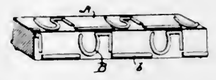
4. In a pneumatic pump, the combination with a main pump chamber provided with water controlled valve mechanism for permitting it to fill with water and to discharge water therefrom by compressed air in accordance with predetermined variations of the water levels in said pump chamber, of a supplementary pump chamber provided with water inlet and outlet valves and compressed air inlet and outlet valves, the said compressed air valves being operated independently of variations of water level in the supplementary pump chamber by mechanism actuated by compressed air in the main pump chamber.

1,339,225. PROCESS OF MANUFACTURING GASEOUS FUEL. JAMES R. ROSE, Edgeworth, Pa. Filed April 25, 1918. Serial No. 230,772. 5 Claims. (Cl. 204—31.)



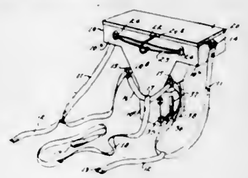
1. The process which comprises introducing an aeriform hydrocarbon fluid into a generator heated by an electric arc and subjecting the fluid to the temperature produced by said arc, thereby to dissociate such fluid into solid carbon and a gas containing a preponderating amount of hydrogen.

1,339,226. STRUCTURAL BAR. KARL R. SCHUSTER, Brooklyn, N. Y. Filed Nov. 18, 1919. Serial No. 338,909. 7 Claims. (Cl. 72—111.)



1. A bar for structural purposes provided with deformations affording a mechanical bond and of a character indicative of a physical property of the bar.

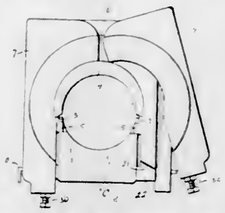
1,339,227. LIFE-SAVING DEVICE. JOHN SEBETO, Brooklyn, N. Y. Filed Nov. 1, 1919. Serial No. 334,929. 2 Claims. (Cl. 244—21.)



1. A device of the class described including a container adapted to accommodate a parachute in collapsed form and having means to connect the suspension rope of the parachute with said container, a controlled ejector in said container adapted to eject the parachute, rings on the container at the sides, shoulder straps secured to said rings, a transverse strap at the front of the container, and connected at its ends with said rings, a crotch strap secured at one end to said transverse strap at the approximate center, and means to secure the front end of the crotch strap to the shoulder straps.

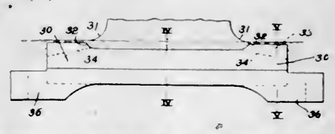
1,339,228. LOCOMOTIVE DRIVING-BOX. ARTHUR W. SIMMONS, Tyler, Tex. Filed Sept. 16, 1919. Serial No. 324,098. 11 Claims. (Cl. 64—25.)

2. In combination with a driving box, a hub plate embodying substantially duplicate sections, each of said sections being provided with a depending lug engageable with the upper portion of the box and operating as a holding and adjusting means for the upper portion of the



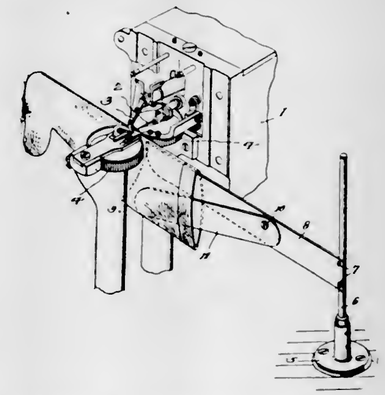
section, and means for securing the lower portion of the section to the box, said lug also serving as a fulcrum whereby the section has swinging movement when being applied to or removed from applied position.

1,339,229. DRAWING GLASS SHEETS. HARRY G. SLINGLUFF, Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed July 11, 1918. Serial No. 244,365. 9 Claims. (Cl. 49—17.)



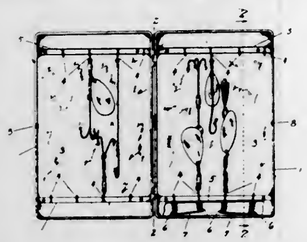
1. In glass drawing apparatus, a tank adapted to contain a body of molten glass, means at each side thereof for maintaining the position of the edge of a sheet of glass being drawn comprising a body of refractory material lying beneath the surface of the glass and provided on its upper side with a groove whose inner portion constitutes the locus of generation of the edge of the sheet, and a chilling bar extending between said means.

1,339,230. STOCKING-GUIDE FOR SEWING-MACHINES. JOSEPH L. STENGEL, Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 7, 1917. Serial No. 190,161. 6 Claims. (Cl. 112—20.)



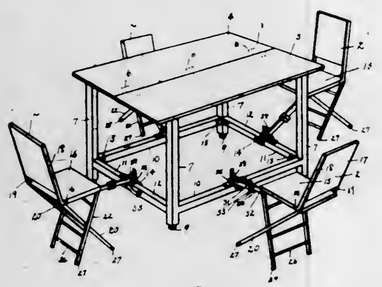
3. A guide for delivering a knitted tube to stitching mechanism including a rigid horizontal arm over which the tube is drawn and set with the upper edge of the guide between two wales of the fabric, and a pivoted arm attached to the rigid arm for distending the tube downwardly and holding it in stretched position.

1,339,231. SPOON AND SPINNER BOOK. ROY C. STEWART, Portland, Oreg. Filed Feb. 9, 1920. Serial No. 357,427. 1 Claim. (Cl. 43—32.)



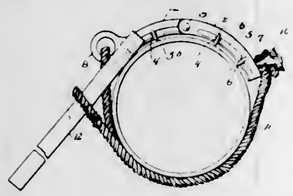
In a spoon and spinner book, the combination comprising two shallow metal trays, hinges for the trays, a plurality of paired supporting hooks within the trays, means of imparting resiliency to the supporting hooks, Z-shaped metal bars to hold the supporting hooks, and a lining of resilient material, adapted to receive and hold the point of a fish-hook.

1,339,232. FOLDING DINING-ROOM SET. HENRY A. ST. JOHN and GEORGE H. SAUER, Utica, N. Y. Filed Sept. 15, 1919. Serial No. 323,852. 8 Claims. (Cl. 45—31.)



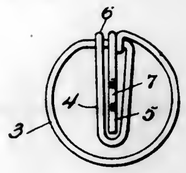
1. In a folding dining room set, a folding table, folding chairs, means for folding said table and chairs together, and bars having sleeves for adjusting the nearness of the chairs to said table.

1,339,233. PIPE-GRIP. STEWART STONE, Butler, Pa. Filed July 8, 1919. Serial No. 309,285. 4 Claims. (Cl. 81—66.)



1. A pipe grip comprising a jaw including pivoted sections arranged end to end, each section being provided with a plurality of radial slots intersected by an arcuate groove, a plurality of teeth fitted in the slots of each section, fastening elements associated with the teeth and arranged in said grooves, a flexible element, and means carried by the respective sections of the grip for association wth one end and the intermediate portion of said flexible element for the purpose specified.

1,339,234. BUTTON-FASTENER. ALBERT JOSHUA TAYLOR, Lamasco, Tex. Filed Dec. 22, 1919. Serial No. 346,505. 1 Claim. (Cl. 24—106.)



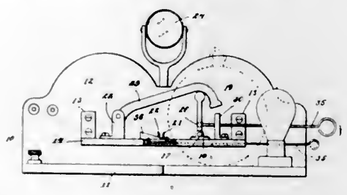
As a new and useful article of manufacture, a button fastener formed of a single piece of wire and comprising an open frame, a loop extending from one end of the frame to a point adjacent to the other end thereof and having one of its sides forming one terminal of the piece of wire and connected to the first-named end of the frame, and a tongue forming the opposite terminal of the piece of wire and secured to the first-named end of the frame and resting longitudinally in the loop and having at an intermediate point of its length a keeper loop to receive the wall of a button eye; the mouth of the said keeper loop being disposed away from the loop, for the purpose set forth.

1,339,235. RANGE-FINDING AND THE LIKE INSTRUMENT. HAROLD DENNIS TAYLOR, York, England. Filed Aug. 19, 1918. Serial No. 250,575. 11 Claims. (Cl. 88—2.7.)



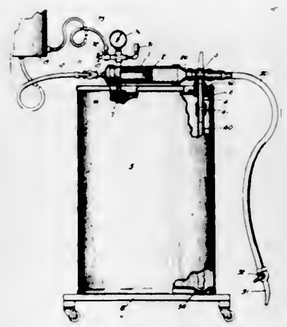
1. A telemetric instrument comprising in combination an objective, means to project through separate halves thereof, images of a distant object, means to measure the parallactic displacement of said images, an eyelens, and double frusto wedge shaped prisms with their thin ends together and arranged between objective and eyelens, and a wedge shaped prism of a similar emergent angle to the reëntrant angle formed by the said pair of prisms and fitting therein to form overlapping images behind the eyelens.

1,339,236. TIME-CONTROLLED LIGHT. JOHN M. TERZICH, Sutter Creek, Calif. Filed Dec. 8, 1917. Serial No. 206,298. 2 Claims. (Cl. 200—41.)



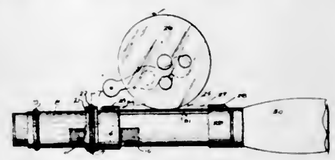
1. The combination with a time controlled alarm mechanism, of a normally vertically disposed pivoted switch arm adapted for contacting engagement with the alarm mechanism, a gravity lever adapted to engage said switch arm to hold the latter in normal position and to force the same downward when acted upon by the alarm mechanism, contact points located in the path of the switch arm, a resetting bar pivotally connected to the switch arm for returning the switch arm to normal position and a circuit breaking element independent of the resetting bar.

1,339,237. GREASE-GUN ATTACHMENT. JOSEPH WILMOT THOMPSON, Carbonado, Wash., assignor to Edward Duffey, Seattle, Wash. Filed May 1, 1919. Serial No. 293,914. 2 Claims. (Cl. 221—78.)



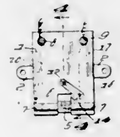
1. A grease gun attachment for grease containers comprising a cylinder with a piston therein, an air supply connection with one end of the cylinder, a three-way valve having one end connecting with the other end of the cylinder, a grease supply pipe adapted to enter the grease container and connected with another end of the said valve, and a grease discharge pipe connected with the third end of the valve.

1,339,238. REEL-MOUNT. CLARENCE W. TILLMAN, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Mar. 1, 1920. Serial No. 362,262. 4 Claims. (Cl. 43—22.)



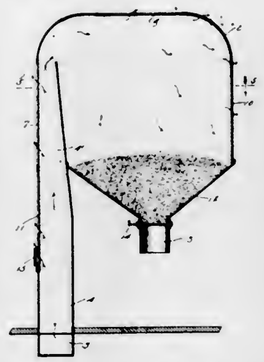
1. In a reel-mount, the combination with a reel-seat tube, of a sliding clamping-collar mounted thereupon and adapted to be engaged by the plate of a reel, and a camring encircling the said tube and clamping-collar and rotatable thereupon for causing the collar to positively grip the tube, the corresponding surfaces of the collar and tube being roughened for that purpose.

1,339,239. FLOAT-OPERATED CIRCUIT-CLOSER. MARY H. TOLAND, Chattanooga, Tenn. Filed Feb. 11, 1919. Serial No. 276,396. 2 Claims. (Cl. 200—84.)



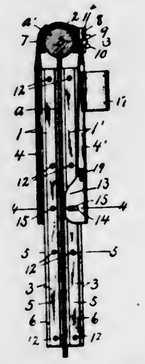
2. In a device of the kind set forth, a support, an arm pivotally mounted on the support and carrying a float at one end, a contact member mounted on the support to effect contact with the arm when the latter is raised, a circuit including the contact member and arm as a part thereof, and common means for maintaining the arm in raised position and for opening the circuit while the arm is in such raised position.

1,339,240. FUR-SCREEN. THURLOW TRAVIS, Brooklyn, N. Y. Filed Jan. 10, 1920. Serial No. 350,673. 6 Claims. (Cl. 38—10.)



3. A fur screen comprising a casing having a foraminous side and top, a hopper arranged at the bottom of said casing, a gate arranged at the bottom of the hopper, and a pipe positioned vertically leading to the upper part of the casing, said pipe having a foraminous construction in one side.

1,339,241. DUPLEX CLEANER FOR WINDSHIELDS. HENRY C. TRIPP, Auburn, N. Y. Filed Jan. 12, 1918. Serial No. 211,542. 1 Claim. (Cl. 15—59.)



The combination of a head slidable along and upon the top rail of a wind shield and provided at one side with a pendant arm and at its opposite side with a vertical guideway, a separate arm having its upper end slidable in said guideway, means for detachably securing the last named arm in the guideway, and a pair of wipers pivotally mounted on the lower ends of said arms.

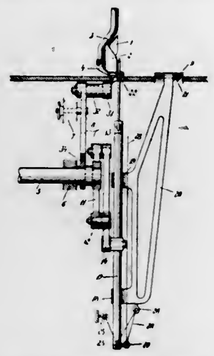
1,339,242. PROCESS OF MAKING MANGANATES. CHARLES E. VANDERKLEED, Collingswood, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 21, 1918. Serial No. 263,491. 5 Claims. (Cl. 23—13.)

1. The method which consists in causing manganese dioxid and sodium peroxid to react by fusing them together to form sodium manganate.

1,339,243. SEWING-MACHINE. KAREL VESELÝ, Tynice, near Sazavou, Czechoslovakia. Filed July 10, 1919. Serial No. 309,913. 4 Claims. (Cl. 112—187.)

1. In a sewing machine, in combination with the machine frame including the work plate, stitch forming mechanism, comprising a presser bar, a case near the lower ex-

tremity thereof, a shuttle in said case, said parts all arranged above said work plate, and a needle actuating mech-



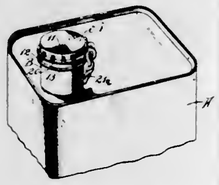
anism arranged below said work plate, the needle reciprocating through said work plate in timed coöperation with said shuttle.

1,339,244. SAFETY DEVICE FOR USE IN CONNECTION WITH REFRIGERATING-MACHINES. FRANK AINSWORTH WILLCOX, Dartford, England. Original application filed Dec. 20, 1917, Serial No. 208,145. Patent No. 1,297,975, dated Mar. 18, 1919. Divided and this application filed Aug. 3, 1918. Serial No. 246,225. 2 Claims. (Cl. 137—53.)



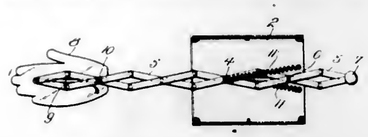
1. In connection with the safety devices of refrigerating machines, a casing constituting a vessel normally closed to the surrounding atmosphere and adapted to receive gases, or vapors, which may pass the safety device, and means distinct from the main compressor of the machine for removing such gases, or vapors, from the said casing, and comprising an injector connected with the interior of the casing and with a pipe leading from the delivery pipe of the main compressor of the refrigerating machine so that gases, or vapors, therefrom effect the withdrawal of gases, or vapors, from the said casing.

1,339,245. METAL-CAN NOZZLE AND CLOSURE THEREFOR. GEORGE A. WILLIAMS, Watertown, Conn. Filed Mar. 20, 1916. Serial No. 85,235. 7 Claims. (Cl. 221—11.)



1. In a metal can, a nozzle having its extreme outer end rolled inwardly and downwardly and spaced from the sides of said nozzle, said nozzle also having an exterior annular shoulder adjacent the upper end thereof.

1,339,246. VEHICLE ATTACHMENT. AMY DORIS WILLMORE, Maywood, British Columbia, Canada. Filed Nov. 13, 1918. Serial No. 262,310. 1 Claim. (Cl. 116—40.)



A device of the class described comprising a casing having slots therein, means for connecting the casing to an automobile, lazy tongs having the pivot of the second pair of levers secured to said casing and the pivot of the third pair slidingly engaging said slots, a pair of plates having slots therein secured to the end of the lazy tongs, the pivot of the next to the last pair of levers slidingly engaging said slots, springs secured to the tongs and to the casing and a handle secured to the ends of the first pair of levers for operating the tongs.

1,339,247. CURTAIN-FITTING. ERNEST LODGE WILSON, Preston, England, assignor of one-half to Harold George Wilson, London, England. Filed Sept. 26, 1919. Serial No. 326,451. 1 Claim. (Cl. 156—21.)



A curtain runner of the type referred to and comprising a frame formed of wire, a roller freely mounted on the upper part of said frame for the purpose of freely suspending said frame on the edge of a flat strip race, said frame at its upper and lower parts being bent to form pairs of opposed rounded points, the points of each pair being a less distance apart than the width of the aforesaid roller, whereby they engage with the sides of the race when the runner is canted, substantially as and for the purpose hereinbefore set forth.

1,339,248. FIREARM-SIGHT. CHARLES B. WINDER, Columbus, Ohio. Filed Nov. 16, 1917. Serial No. 202,269. 2 Claims. (Cl. 33—47.)

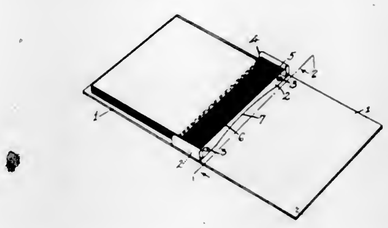


1. In a firearm, the combination with a barrel having a rear hinged sight, of a hollow tube mounted upon the barrel and increasing in diameter toward the muzzle end to subtend the visual angle and constituting of itself front and rear sights, and means for securing said tube to said hinged sight in either position of the latter.

1,339,249. TEMPORARY BINDER. GEORGE W. WINDISCH, Detroit, Mich., assignor to William C. Windisch Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 11, 1917. Serial No. 141,779. 3 Claims. (Cl. 129—38.)

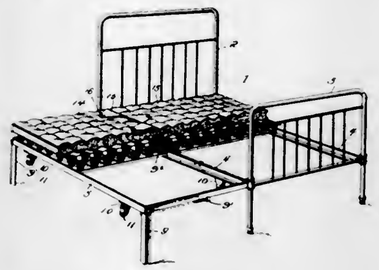
3. In a magazine binder, a cover member, a thin spring metal strip secured thereto adjacent the ends of the strip, the said strip having a central bowed portion and

end portions extending upwardly on the bowed side, a plurality of spring metal rods loosely mounted in the



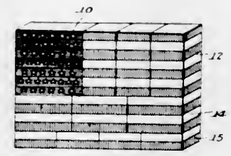
said end portions, the rods holding the magazines or papers carried thereby yieldably in contact with the said bowed portion.

1,339,250. BED. CELESTIA M. WINN, Watonga, Okla. Filed Feb. 11, 1919. Serial No. 276,332. 1 Claim. (Cl. 5—8.)



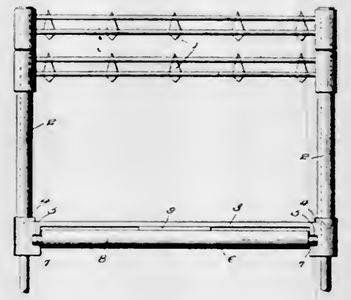
In combination with a bed having slots in one side rail, an extension frame having staples on one of the side rails and engaging said slots, hooks carried by the side rail of the bed for engaging said staples, legs pivotally connected with the outer side of the extension frame and adapted to be swung upwardly against the end pieces of the extension frame, catches for holding said legs in folded position and rollers on the side rails of the extension frame for permitting the said extension frame to be rolled under the bed when not in use.

1,339,251. PUZZLE. KAROKI YONEMOTO, Honolulu, Hawaii. Filed Sept. 6, 1918. Serial No. 252,881. 1 Claim. (Cl. 46—41.)



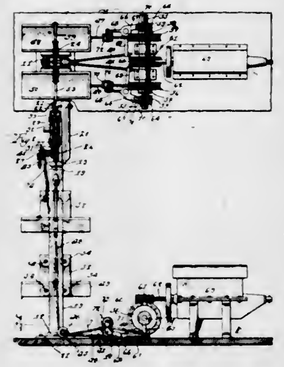
In a puzzle, a series of blocks comprising a plurality of sets, certain of the blocks bearing representations on three surfaces, the blocks of each set being differently proportioned but of uniform thickness and the blocks of all of the sets with their edge portions exposed to view presenting a design, the respective sets of blocks similarly proportioned bearing on their flat faces the representation of a portion of a distinctive design which is rendered complete by assembling all of the blocks having the same proportions.

1,339,252. DEVICE FOR PUSHING BACK ORES INTO THE INTERIOR OF MECHANICAL MUFFLE ROASTING-FURNACES. ROMAN V. ZELEWSKI and HERMANN SIEGEL, Engis, Belgium. Filed July 20, 1917. Serial No. 181,931. 4 Claims. (Cl. 263—23.)



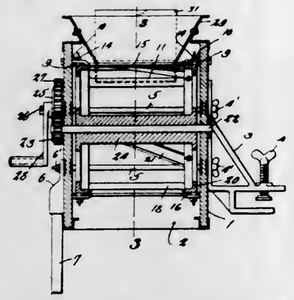
1. In an apparatus of the class described, the combination of a furnace, a frame mounted in the furnace to reciprocate, a plurality of fixed stirring devices depending from the inner end of the frame, a bar having trunnions and extending across the frame, bearings formed in the frame to receive the trunnions, a comb depending from the bar, the trunnions being disposed near the bottom of the bar, the weight of the bar above the trunnions causing said bar and the comb to tilt by gravity beyond a medial line, and means on the frame to limit the rocking movement of the comb and bar in either direction of movement of the frame.

1,339,253. HOISTING APPARATUS AND CONTROLLING MEANS THEREFOR. CARL ZETTERLUND, Chicago, Ill. Filed Nov. 24, 1919. Serial No. 340,090. 7 Claims. (Cl. 187—34.)



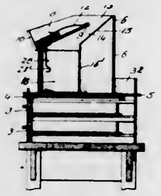
1. In an apparatus of the class described, the combination with an upright support, of a tackle-block mounted on the upper portion thereof, a cable engaging said block and depending on each side of said support, a carrier connected to each end of said cable, a pair of drums suitably journaled near the base of the support, means to drive said drums, each of said drums having a clutch face, clutches mounted to engage the clutch faces of the drums and to alternately fix them on their shaft, cables connecting the carriers and drums, means operated by said cables to alternately throw the clutches out of engagement with the drums, and means connected to the last named means for placing the clutches into engagement with the drums.

1,339,254. VEGETABLE-CUTTER. WILLIAM ZITELLA, Adamston, W. Va. Filed Jan. 12, 1920. Serial No. 350,744. 6 Claims. (Cl. 146—11.)



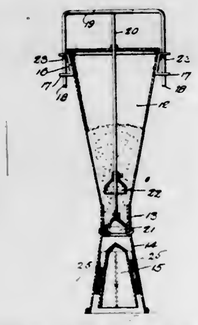
1. The combination with a casing having an inlet and an outlet, opposed guide plates mounted in the casing and spaced apart therein, and cutting blades mounted between the ends of the plates, of a revoluble cutting element interposed between the plates and coöperating with said blades, and means for directing material onto the blades.

1,339,255. CHECK AND DEPOSIT-SLIP CABINET. GUY F. BRISENDINE, Decatur, Ill. Filed Aug. 29, 1918. Serial No. 251,875. 6 Claims. (Cl. 211—37.)



1. A cabinet of the character described including in combination a receptacle divided into two compartments, a tray for each compartment, a chute located to the rear of each tray leading to one compartment, and means in one compartment for positioning the articles as they drop from said chute therein, said means including a resilient member depending vertically from the top wall of said compartment and adapted to engage the front edge of the articles as they are discharged therein from said chute.

1,339,256. FERTILIZER-DISTRIBUTER. GEORGE WILLIAM BROWNING, Clinton, N. Y. Filed July 31, 1919. Serial No. 314,528. 5 Claims. (Cl. 275—1.)



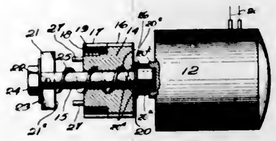
1. In a fertilizer distributer, the combination with a body or hopper adapted to receive fertilizing material, of inner and outer cones connected to the lower part of said body or hopper, said cones having side openings, valves for controlling the supply of fertilizing material from said body or hopper to said cones, and means for operating said valves.

1,339,257. SWAGGER-STICK. JAMES M. CALLAHAN, Washington, D. C. Filed Aug. 29, 1919. Serial No. 320,571. 3 Claims. (Cl. 135—47.)



2. A swagger stick comprising a handle and a means for grasping and turning a rounded flat spheroidal door-knob, said means comprising an offsetting part connected at one end thereof to the handle and a hook connected directly to the other end of said offsetting part, whereby the hook is laterally offset from the handle, the distance from the offsetting part to the inner surface of the hook farthermost therefrom being so that said inner surface of the hook may be applied to the shank of a door knob and the offsetting part to the periphery of the knob, the extremity of the hook being bent outwardly in a curve the reverse of that of the main body of the hook.

1,339,258. POWER TRANSMISSION. JAMES KENDALL DELANO, New York, N. Y. Filed July 21, 1917. Serial No. 182,032. 29 Claims. (Cl. 290—46.)



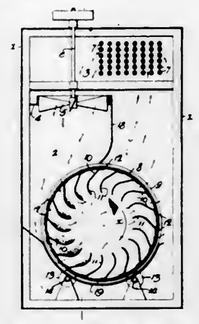
19. The combination, with a dynamo electric machine having a suitable armature shaft, of transmission means mounted on the shaft and comprising a metallic gear and a non-metallic gear.

1,339,259. PROCESS FOR ORNAMENTING WOOD. HERMAN E. DE VRIES, Grand Rapids, Mich. Filed Oct. 16, 1919. Serial No. 331,031. 2 Claims. (Cl. 41—31.)

1. The process of ornamenting wood consisting of applying a color barrier consisting of a mixture of inert powder and glycerin, applying an oil color, and removing the color barrier from the surface of the wood.

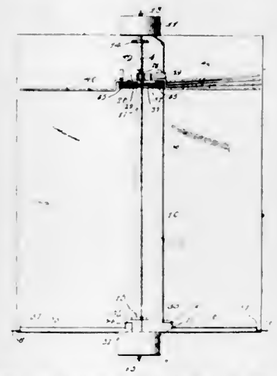
1,339,260. ROTARY DRIER. ALPHEUS O. HURXTHAL, Philadelphia, Pa., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 1, 1919. Serial No. 341,610. 6 Claims. (Cl. 34—6.)

4. The combination of a drying apparatus having a heating chamber and a drying chamber; heating means in the heating chamber; a cylinder rotatably mounted in the drying chamber, said cylinder having a series of bucket-shaped blades, the space between the blades being entirely open; partitions in the drying chamber; and a



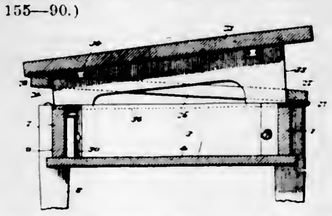
circulating fan for circulating air through the heating chamber and the drying chamber and through the spaces between the blades of the cylinder.

1,339,261. MUSIC-LEAF TURNER. THOMAS M. JOLLEY, Des Moines, Iowa. Filed Dec. 20, 1915. Serial No. 67,844. 5 Claims. (Cl. 84—135.)



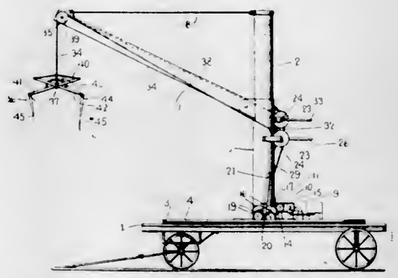
1. A music leaf turner comprising a support having slots therein, a pair of co-axial shafts mounted on the support and rotatable in opposite directions, actuating arms carried by said shafts and arranged to travel through the slots in the support, a bearing surrounding one of said shafts, a plurality of leaf turning arms pivotally supported on said bearing, means for causing said leaf turning arms to be successively engaged by said actuating arms, and a guide member arranged between said actuating arms to guide the same into their respective slots.

1,339,262. PIANO-BENCH. CHARLES F. KADE, Plymouth, Wis., assignor to Charles F. Kade, Jr., Plymouth, Wis. Filed Nov. 13, 1918. Serial No. 262,405. 5 Claims. (Cl. 155—90.)



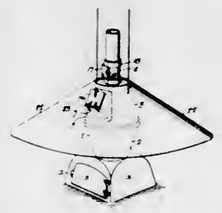
1. An article of furniture of the class described comprising a frame having a lower lid hinged to one side thereof and an upper lid hinged to the opposite side of the lower lid and also having means to support said lids in oppositely inclined positions.

1,339,263. MANURE-LOADER. EMIL KERNEN, Weiner, Ark. Filed Apr. 5, 1919. Serial No. 287,757. 2 Claims. (Cl. 212—44.)



1. An apparatus of the class described comprising a truck, a platform rotatably mounted on the truck, a circular rack on the truck adjacent said platform, a pair of movable shafts carried by the platform, gears on said shafts engaging the rack, power means for driving said shafts and means for moving the shafts to place one or the other of the gear wheels in engagement with the rack.

1,339,264. BROODER. CHARLES H. LANDENBERGER, Philadelphia, Pa. Filed Oct. 16, 1917. Serial No. 196,818. 1 Claim. (Cl. 237—3.)



The combination in a brooder, of a stove; a vertically movable hover surrounding said stove, said hover having an opening disposed therein; a fuel chute extending at an angle from the stove and having its outer end adjacent the said opening; and a door for the outer end of the fuel chute, said door being substantially flush with the outer face of the hover, thereby permitting unimpeded vertical movement of the hover.

1,339,265. TOILET ARTICLE. NATHAN A. LEVITAN, New York, N. Y. Filed Mar. 22, 1919. Serial No. 284,311. 2 Claims. (Cl. 132—32.)

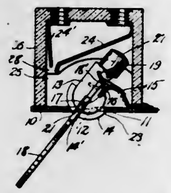


1. In a tooth brush structure, a casing consisting of mating detachably connected sections, a brush detachably carried by one of said sections and adapted to be inclosed by the other section, a closure member for the first section, which member is capable of sealing the open exteriorly threaded end of a dentifrice tube which may be inclosed when arranged within said first section

1,339,266. GRAPHITE ARTICLES AND METHOD OF MAKING THE SAME. SILAS C. LINBARGER, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Dec. 13, 1918. Serial No. 266,639. 9 Claims. (Cl. 106—10.)

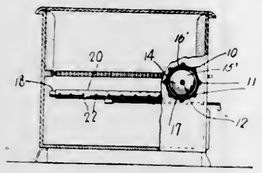
7. The herein described refractory body containing graphite particles coated with a thin oxidation preventing film, substantially as described.

1,339,267. ELECTRIC-SWITCH LOCK. STANLEY D. LIVINGSTON, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Sept. 30, 1919. Serial No. 327,422. 14 Claims. (Cl. 70—14.)



2. In a lock, a plate having an opening with a tongue projecting into the opening between the two sides thereof, an oscillating member having a body fitting in the opening opposite said tongue and having curved flanges fitting in the sides of said opening, a locking member co-acting with said oscillating member and a key adapted to be inserted through the flange of said oscillating member and having a tip to release said locking member and having a slot to allow for the swinging of said key past said tongue.

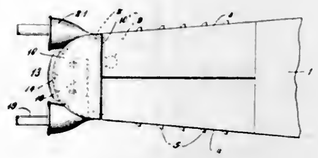
1,339,268. STOVE ATTACHMENT. BLAINE LUCAS, Harlowton, Mont. Filed July 3, 1919. Serial No. 308,575. 1 Claim. (Cl. 126—15.)



A stove attachment adapted for use in conjunction with a perforated conduit arranged beneath the grate of the stove, said attachment comprising a fan casing arranged within the stove and communicating with said conduit, a fan shaft mounted for rotation within the casing, a fan fixed upon said shaft, an internal gear mounted for rotation within the casing, a relatively small gear mounted for rotation and meshing with said internal gear, a handle for rotating said internal gear, a pinion fixed upon the fan shaft and meshing with said small gear, whereby said shaft is rotated with considerable speed upon rotation of the internal gear, a plate arranged at one end of the casing, and having a diameter smaller than the diameter of the casing, to provide an annular passage for the admittance of air to the casing, and said handle operating within the passage as described.

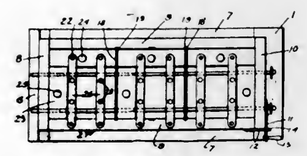
1,339,269. MOTOR-VEHICLE CONSTRUCTION. KARL G. LUNDIN, Detroit, Mich., assignor of one-half to Joseph C. Morris, Detroit, Mich. Filed Aug. 15, 1919. Serial No. 317,758. 3 Claims. (Cl. 180—69.)

1. In combination with an automobile and its radiator, a shell of semi-cylindrical form in cross section, a headlight on each side of said shell, means for detachably connecting said shell to the vehicle with the shell inclosing



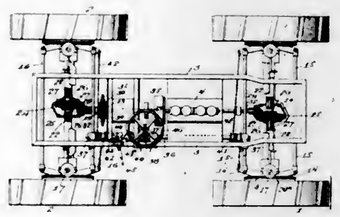
the radiator, louvers in the front face of said shell and means for opening and closing said louvers.

1,339,270. PLASTIC-BLOCK MOLD. EDWARD J. LUTTRELL, New York, N. Y. Filed Aug. 15, 1917. Serial No. 186,384. 3 Claims. (Cl. 25—121.)



1. A plastic block mold including a table provided with perforations arranged in series, a mold removably mounted upon said table, dividing means for said mold, compartment reducing members for said mold, supporting means for said reducing members, said supporting means being provided with perforations adapted to register with said first mentioned perforations, core hole forming rods adapted to be engaged through the registering perforations, and finishing members adapted to be removably positioned in the compartments of said mold to shape and finish the ends of the blocks formed in said compartments.

1,339,271. MOTOR-TRACTOR. THOMAS F. MCCALLISTER, Prineville, Oreg. Filed Mar. 6, 1918. Serial No. 220,787. 1 Claim. (Cl. 180—73.)

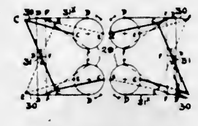


In a tractor, a driven axle, a frame having a cross member, a web secured to said member and depending below the axle, a ring having circular movement in the web, and journal bearings on the face of the ring for said axle, whereby the axle may have pivot movement during its revolution.

1,339,272. CENTRIFUGAL APPARATUS WITH PLANETARY MOVEMENT. WILHELM MAUSS, Johannesburg, Transvaal, South Africa. Filed Sept. 4, 1919. Serial No. 321,708. 11 Claims. (Cl. 235—25.)

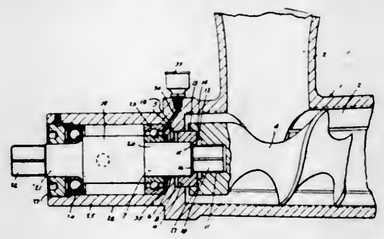
1. In centrifugal apparatus, a number of bodies having planetary movement, seatings for the bodies opposing

their centrifugal movement, an endless flexible loop embracing said bodies, means to deform the loop periodically



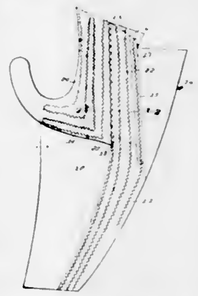
to retract said bodies from their seatings for rotation, and to circulate the loop while the bodies are so retracted.

1,339,273. SAFETY-DRIVE FOR MEAT-CUTTERS. JULIUS MILLER, Los Angeles, Calif. Filed May 12, 1919. Serial No. 296,719. 2 Claims. (Cl. 64—105.)



1. The combination with a feed screw for operating a meat cutter and an operating shaft, the feed screw being slidingly connected to the operating shaft, of a safety device mounted upon the operating shaft and backing up the feed screw, and having a flange adapted to be broken when the cutter is clogged sufficiently to press the feed screw toward the shaft.

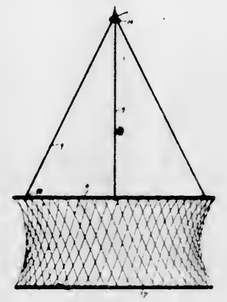
1,339,274. HAIR-LOCK COAT-FRONT. JOHN MORITZ, Lebanon, Pa. Filed Sept. 5, 1919. Serial No. 321,801. 4 Claims. (Cl. 2—63.)



3. A coat front form or interlining having a fabric base, a hair cloth reinforcing member secured to the base and provided on a longitudinal line with a double or fold forming a felled seam, and a padding overlapping the portion of the stiffening member in rear of said felled seam and having its forward edge in parallelism and close to said seam.

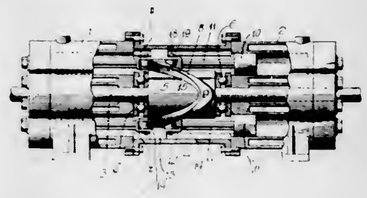
1,339,275. FISH AND CRAB TRAP. CHARLES W. MUELLER, Jersey City, N. J. Filed Oct. 4, 1919. Serial No. 328,396. 4 Claims. (Cl. 43—12.)

3. A fish and crab trap comprising: a pair of netting frame members, one member slightly smaller than the other member to permit a folded concentric relation between the pair of frame members, netting attached to the frame members, hanger rods attached to one of the frame members for connecting with a cord for lowering the trap



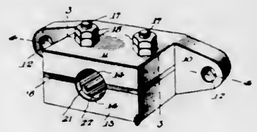
into the water, and hooks applied to the outer free end of the hanger rods to hook over and engage both frame members when the trap is closed in a folded position.

1,339,276. CAM. PETER W. MURPHY, Detroit, Mich., assignor to The Murphy Engineering Co., Detroit, Mich., a Corporation of Michigan. Filed May 2, 1917. Serial No. 166,010. 6 Claims. (Cl. 74—1.)



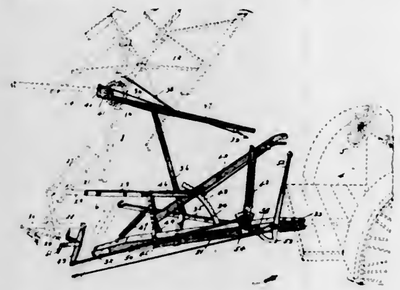
1. A cam having a cylindrical body and a sinuous cam track with oppositely inclined faces, projecting from the periphery thereof, a cam driving member reciprocable in a plane parallel to the axis of revolution of the cam, conoidal rollers on the reciprocable member embracing the cam track and means for adjusting said rollers axially and radially to the cam body, said means comprising a bushing adjustable in said reciprocable member and a bearing stud secured to said bushing.

1,339,277. SHAFT-BEARING. WILLIAM W. NEIGHBOUR, Spartanburg, S. C. Filed May 16, 1919. Serial No. 297,593. 2 Claims. (Cl. 64—38.)



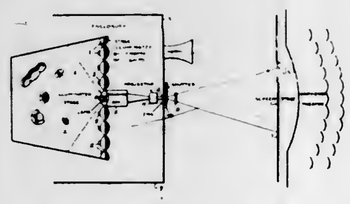
1. A device of the character described comprising an elongated plate, a bearing member projecting from one side of the plate medially thereof, a second bearing member in parallelism with the first mentioned member and engaged against said plate, compressible packing material interposed between said members, means connecting said parts together, and said plate and second mentioned bearing member having their adjacent surfaces correspondingly beveled, whereby to assist in supporting the second mentioned bearing member upon the plate.

1,339,278. COUPLING AND OPERATING DEVICE FOR TRACTOR-HARVESTERS. JOHN V. OBER, Ada, Minn. Filed Jan. 16, 1918. Serial No. 212,018. 5 Claims. (Cl. 56—10.)



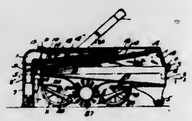
1. The combination with a vehicle and a tractor for moving the same, of a coupling bar flexibly connecting the vehicle to the tractor, a link pivoted to the coupling bar, and a latch lever intermediately pivoted to the link and adapted to be attached to an adjusting element on the vehicle.

1,339,279. STAGE ILLUSION EFFECT. FERDINAND J. OEBBECKE, Philadelphia, Pa. Filed Aug. 11, 1919. Serial No. 316,685. 7 Claims. (Cl. 88—24.)



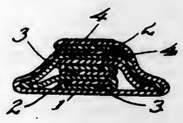
1. The method of producing stage effects which comprises collecting on a ground glass screen a scene displayed upon an inclosed and illuminated stage whereon the living actors may assemble for the portrayal of an act or scene of a play; projecting the scene from the ground glass screen to a translucent screen; and momentarily cutting off the scene so projected at substantially regular intervals to produce upon the translucent screen the illusion of a moving picture.

1,339,280. PORTABLE CLEANING-MACHINE. SAMUEL B. PACK, Washington, D. C., assignor to Packmore Manufacturing Company, a Corporation of Delaware. Filed June 15, 1912. Serial No. 703,908. 4 Claims. (Cl. 15—60.)



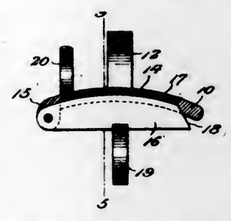
2. A portable suction cleaning machine, comprising a casing supported so as to be easily moved over a surface to be cleaned, a suction nozzle carried by the casing, a diaphragm pivotally mounted within the casing and having two of its side margins and one end margin flexible and fastened to the said casing, and a single handle for propelling the machine over the surface to be cleaned having operative connection with the diaphragm whereby it is actuated as the machine is moved by the handle.

1,339,281. UPHOLSTERY-FOLD. TRUMAN G. PADDACK, Wyoming, Ohio, assignor to The Stearns and Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed Jan. 26, 1920. Serial No. 353,981. 3 Claims. (Cl. 155—184.)



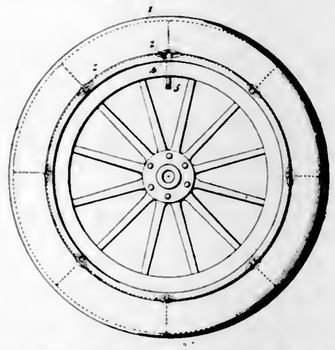
1. An upholstery fold for cotton and the like comprising a strip of such material, having initial narrow marginal folds brought together centrally of the strip to form a core lengthwise of the fold.

1,339,282. CUTTER FOR BROOM-CORN, MAIZE, AND THE LIKE. JOHN E. PELNAR, Deerfield, Kans. Filed July 8, 1919. Serial No. 309,263. 1 Claim. (Cl. 30—24.)



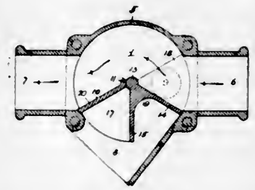
A device of the character described comprising a plate concavo-convex in longitudinal and transverse section for conforming engagement within the palm of the hand of an operator, said plate having slots formed at its sides, straps connected within said slots and adapted for encircling engagement upon the hand and adjustably connected, rigid loops formed integrally upon the corners of said plate toward the fingers and partially encircling adjacent fingers for preventing the displacement of said plate, said plate being provided with a longitudinal recess, the bottom of said recess being curved, ears on said edge of said plate at the sides of said recess, a blade pivoted between said ears and having a curved cutting edge adapted for conforming engagement within said recess, and a rigid finger engaging ring formed on said plate and adapted to encircle two fingers of the operator whereby the blade may be moved to or from the plate by opening and closing the hand.

1,339,283. INNER TUBE FOR TIRES. JAMES ALBERT PERKINS, Brooklyn, N. Y. Filed July 20, 1918. Serial No. 245,860. 1 Claim. (Cl. 152—22.)



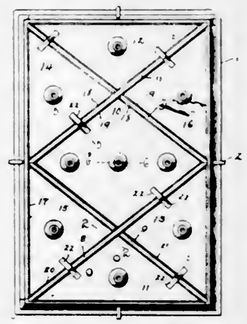
An inner tube, comprising separate sack sections, tubes connected with the end portions of the respective sections and adapted to be connected together, to provide communication between adjacent sections, a continuous cushion disposed to lie against the inner surfaces of the sack sections and provided with openings through which the tubes pass, said cushion being held at intervals in raised supporting relation to the end portions of said sections, to hold same in required position, by the connected tubes.

1,339,284. MUFFLER CUT-OUT. NICHOLAS A. PETRY, Philadelphia, Pa. Filed Apr. 10, 1917. Serial No. 161,009. 29 Claims. (Cl. 251—108.)



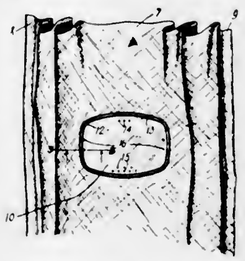
1. A valve structure comprising a casing having a valve chamber in communication with which are an inlet port, a muffler exhaust port, and a muffler cut-out exhaust port all opening substantially in one plane, and a supplementary exhaust port opening at an angle to said plane; in combination with a valve member adjustable at will to direct flow of fluid from the inlet port to the muffler exhaust port, or to the muffler cut-out exhaust port, or to the supplementary exhaust port.

1,339,285. GAME DEVICE. LEONARD F. PIERSON, Fredericksburg, Va. Filed Mar. 26, 1917. Serial No. 157,408. 7 Claims. (Cl. 46—61.)



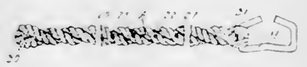
1. In a game, a frame, barriers dividing the frame into a plurality of separate fields, game piece seats, seats in the fields, and bridge pieces carried by the barriers and having opposite ends projecting into adjacent fields.

1,339,286. HEAD-COVERING. EMMA A. PLUMMER, Brooklyn, N. Y. Filed Mar. 7, 1916. Serial No. 82,520. 5 Claims. (Cl. 2—118.)



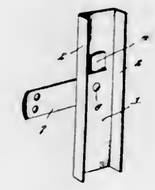
1. A head covering formed of fabric, having a window located therein, and means for positively uniting the fabric and window, said means embodying a reinforced portion formed integral with the fabric and an individual binding positioned on the window, said binding, window, and reinforced portion being united by suitable securing means.

1,339,287. DRIVING-BAND. HARRY A. S. READ, Andover, Mass. Filed Sept. 20, 1918. Serial No. 254,982. 3 Claims. (Cl. 74—66.)



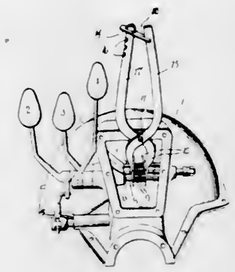
3. As a new article of manufacture, a driving band consisting of a plurality of cords each made of strands of twisted paper so twisted together as to have a loop at each end, the ends of each strand being twisted into the body of the band.

1,339,288. THERMOMETER-HOLDER. HORACE J. RICHARDS, Watervliet, N. Y. Filed Jan. 10, 1920. Serial No. 350,667. 2 Claims. (Cl. 248—20.)



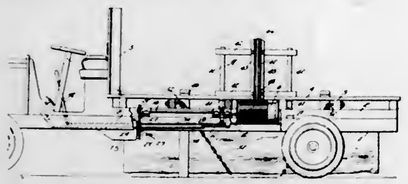
1. In a means for removably holding a thermometer, a channeled member having its flanges inclined toward each other and designed to engage with the opposite edges of a thermometer casing, a tongue carried by the support contacting the rear of the thermometer casing, and a pivoted supporting bracket secured to the back of the support.

1,339,289. AUTOMOBILE-TOOL. JAMES Z. ROBERGE, Dallas, Tex. Filed Nov. 22, 1918. Serial No. 263,698. 3 Claims. (Cl. 29—87.1.)



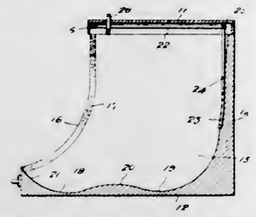
1. In an automobile tool of the character described two relatively short arms crossing each other a short distance below their centers and pivotally connected at their points of intersection, the longer portions of said arms being bent outward and upward to form handles, the shorter portions being bent outward and downward and a plate secured to each of the downwardly bent ends, each of said plates having a plurality of notches to grip and compress simultaneously a plurality of springs used in the transmission device of a Ford automobile, the lower edges of said plates being beveled and curved slightly inward.

1,339,290. LOADING DEVICE. HENRY G. SCHAEFER, Cleveland, Ohio. Filed June 12, 1919. Serial No. 303,531. 3 Claims. (Cl. 214—75.)



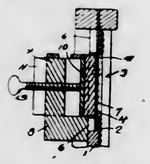
1. A loading mechanism for trucks, comprising a drum supported under the bed of the truck, an upright frame attachable to either side of the truck, said frame having guide pulleys thereon, a cable connected to the drum and extending crosswise under the bed of the truck in either direction and upwardly around said guide pulleys and across above the bed to the opposite side thereof, and means to operate the drum.

1,339,291. SELF-EJECTING-RECORD CABINET. HENRY S. SCHISSEL, Philadelphia, Pa. Filed Dec. 2, 1919. Serial No. 341,895. 3 Claims. (Cl. 211—16.)



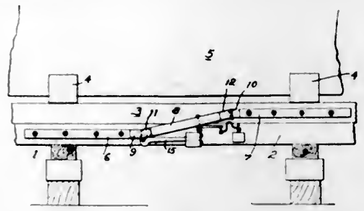
1. A record cabinet comprising a casing divided into a plurality of compartments, each compartment being formed at its bottom with a hump, a longitudinally movable bar disposed within the upper portion of each compartment, a spring engaging the forward end of the bar and normally urging the same rearwardly, a second bar pivoted intermediate its ends and disposed at the rear of each compartment, said second named bar being connected at its upper end with the first named bar, disposition of a record within a compartment resulting in movement of the second named bar whereby to move said first named bar forwardly to compress said spring, and means within each compartment engaging said first named bar upon such forward movement thereof whereby to hold it stationary with said spring under compression whereby upon release of said means said bar will move to eject the record.

1,339,292. WASHBOARD. GEORGE W. SHOEMAKER, Dalton, Pa. Filed Feb. 18, 1918. Serial No. 217,809. 1 Claim. (Cl. 68—29.)



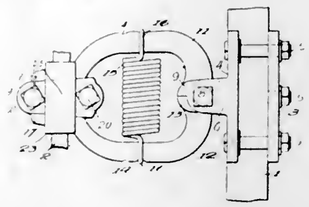
The combination with a washboard having an opening in its rubbing plate, of a block secured to the rear side of the board and having a pocket extending through the sides of said block and coincident to the opening and accessible through the top of said block, a U-shaped follower straddling the block with the sides of the follower outside of said block and working against its sides, and a feed screw threaded in the block and operative against the follower.

1,339,293. SHIP-LAUNCHING CONTROL DEVICE. JOHN G. SJOBERG, Oakland, Calif. Filed June 30, 1919. Serial No. 307,586. 6 Claims. (Cl. 61—67.)



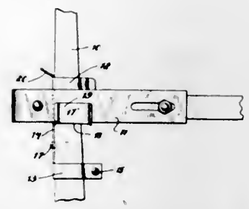
1. In combination, abutments on the stationary and sliding frames respectively of a ship way, a shore bar interposed between said abutments, locking means for one end of said shore bar, and means for preventing the other end of said bar from flying upward when the bar is disengaged at its locking end.

1,339,294. STEERING DEVICE. NATHAN SMALL, Baltimore, Md., assignor to The Safety Steering Device Manufacturing Company, Baltimore, Md., a Corporation of Maryland. Filed Feb. 4, 1918. Serial No. 215,299. 1 Claim. (Cl. 280—94.)



In a device and class described, a member adapted to be attached to a vehicle axle and including spaced lugs apertured to receive a pivot device and provided respectively with stop shoulders, coacting levers swinging upon said pivot between said lugs, one of said levers having a stop shoulder engaging when in one position with the stop shoulder of one of said lugs, and the other lever having a stop shoulder engaging when in one position with the stop shoulder of the other lug, a stop device adapted to be attached to the steering rod of a vehicle and operative between the free ends of said levers, and means for yieldably holding said levers in closed position.

1,339,295. LUG-STRAP SUPPORT. JAMES F. SMITH, Gaffney, S. C. Filed Dec. 22, 1919. Serial No. 346,474. 5 Claims. (Cl. 139—48.)



3. The combination with a picker arm and lug strap, of an attachment for said arm comprising a member designed to embrace the arm, opposed hooks formed on the sides of said member for supporting the lug strap, an extension projecting from said member and arranged above the strap, the front of said extension coöperating with the hooks to

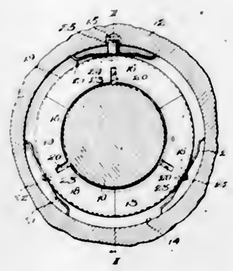
prevent the strap from being casually separated from the member, and a bottom and vertical portion of each hook having their ends curved away from said strap for the purpose specified.

1,339,296. CHAIR-SWING. JOHN WESLEY SPARKS, Clear Lake, Iowa. Filed Sept. 23, 1919. Serial No. 325,736. 2 Claims. (Cl. 155—58.)



1. An open front chair swing, comprising a seat, a sheet of flexible material secured to the sides and back of the seat, a frame secured to the upper portion of the flexible material, said frame having loops at its ends at the front of the chair and having eyes at its intermediate portions at the sides and rear of the chair, a pommel on the seat at its center and at the front edge thereof, and a strap permanently connected at one end to one of the loops and adapted to be positioned across the open front of the chair and removably connected to the other loop.

1,339,297. PACKING FOR STEAM-TURBINE SHAFTS. ELMER D. SPICER, Wellsville, N. Y., assignor to Moore Steam Turbine Corporation, Wellsville, N. Y., a Corporation of New York. Filed Jan. 4, 1917. Serial No. 140,551. 2 Claims. (Cl. 286—24.)



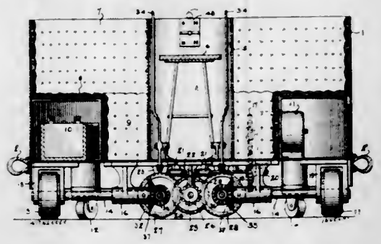
1. A packing ring segment consisting of a solid segmental block of packing material, such as carbon, a segmental metal case having sides closely fitting said block to prevent the breaking thereof, said case and block being of the same length and having their ends machined so that they will form steam tight joints with the ends of the cases and blocks of abutting segments of a packing ring, a spring plate, and a fastening member securing said plate to the top of said case, said fastening member having a part projecting into a recess in said block whereby said block is prevented from moving longitudinally in said case.

1,339,298. TRACTION-BELT. HUGH C. STEELE, Minneapolis, Minn. Filed Mar. 21, 1919. Serial No. 284,129. 7 Claims. (Cl. 21—150.)



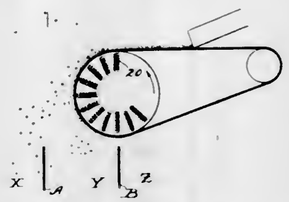
1. A traction belt comprising a series of links, each composed of inner and outer members, the abutting longitudinal edges of said members having a series of oppositely projecting lips formed thereon with recesses between the lips, the lips of each inner and outer member fitting into the recesses of the adjacent corresponding members and interlocking with the oppositely turned lips of the abutting members, and means for securing said inner and outer members against separation.

1,339,299. AMUSEMENT DEVICE. JOHN JACOB STOCK, New York, N. Y., assignor of one-half to Johnny J. Jones, Orlando, Fla. Filed June 24, 1919. Serial No. 306,309. 10 Claims. (Cl. 104—59.)



1. An amusement device, including a tub-shaped vehicle and power means positioned at diametrically-opposite points adjacent the edge of the same for driving such vehicle.

1,339,300. PROCESS FOR THE MAGNETIC SIZING AND GRADING OF ORE. WALTER G. SWART, FRED A. JORDAN, EDWARD W. DAVIS, and THEODORE B. COUNSELMAN, Duluth, Minn. Filed Sept. 11, 1917. Serial No. 190,718. 6 Claims. (Cl. 83—71.)



1. A process of sizing and grading ore consisting in imparting a desired velocity to a body of ore particles, then subjecting said particles to a magnetic attraction to withdraw substantially all save large tailing particles from said ore body, then subjecting the remainder of said ore particles to magnetic attraction of such strength as to withdraw the fine concentrates from the middling and large high-grade particles.

1,339,301. METALLIC RAILWAY-TIE. CHARLES H. SWARTWOOD, Boston, Mass., assignor of one-third to Miles Swartwood, Swartwood, N. Y., and one-third to Charles B. Swartwood, Elmira, N. Y. Filed Jan. 17, 1920. Serial No. 352,036. 5 Claims. (Cl. 238—30.)

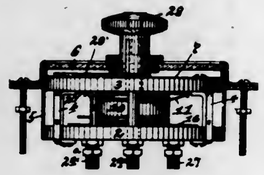
1. A railway tie comprising spaced hollow housings adapted for positioning upon the roadbed, a connecting

web between the tops of the housings, adjustable bases resiliently seated within said housings projecting through the tops thereof and guides upon said bases transversely



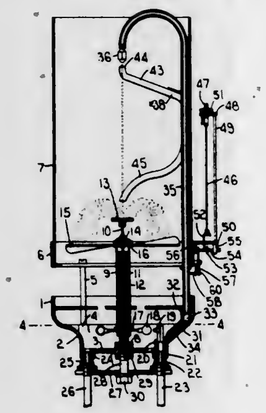
of the tie adapted for frictional engagement with the base flanges of rails when operatively mounted upon said bases.

1,339,302. LOCK-SWITCH. BRICE PHANDERS SWYERS, Pittsburgh, Pa., assignor to Motors Lock Company of America, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 5, 1919. Serial No. 280,767. 6 Claims. (Cl. 200—43.)



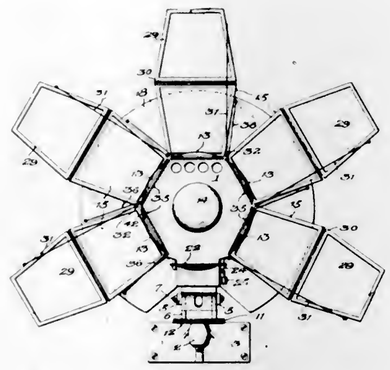
1. A lock switch comprising two disks spaced one above the other, contact rings on said disks, a shaft mounted to rotate with respect to said disks, other contacts on said disk and insulated from said rings, contact arms revolubly mounted on said shaft, said arms having limited movement relative to said shaft, one of said arms having a greater restricted movement than the other, and means for moving said contact arms to desired positions.

1,339,303. VAPORIZING DEVICE. ALBERT W. THOMPSON, Lowell, and EDWARD W. COMFORT, Winchester, Mass., assignors to The G. M. Parks Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed Mar. 18, 1918. Serial No. 223,032. 22 Claims. (Cl. 261—83.)



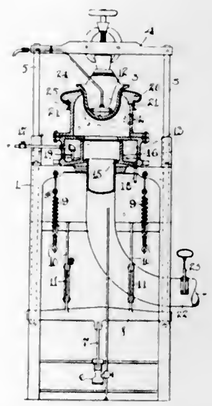
1. A humidifier comprising a casing, means for producing a current of gaseous fluid through said casing, a rotating member in said casing, means for forcibly projecting a jet of liquid upon said rotating member whereby the conjoint action of the force imparted to the jet and the centrifugal force of said rotating member upon the liquid thus supplied will atomize and distribute the same within said casing in the path of the current of gaseous fluid.

1,339,304. LIGHT-PROJECTING APPARATUS. GEORGE T. THOMPSON, Washington, D. C. Filed Mar. 21, 1919. Serial No. 284,029. 10 Claims. (Cl. 240—3.)



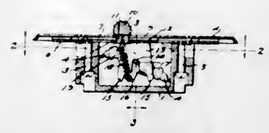
1. In a light-projecting apparatus, the combination of a housing for the light, having a plurality of condensing lenses in the sides thereof, and a center condensing lens, of a plurality of reflectors associated with said condensing lenses, adapted to reflect the light beams radiating from said condensing lenses into the path of the beams radiating from said center condensing lens, said reflectors being adjustable in synchronism, whereby the light beams radiating from said condensing lenses may be diffused or concentrated on any one point at will.

1,339,305. HAT-MAKING MACHINE. JAMES J. TRACY, Cleveland, Ohio. Original application filed Apr. 7, 1913, Serial No. 759,283. Divided and this application filed Dec. 29, 1916. Serial No. 139,462. 4 Claims. (Cl. 223—31.)



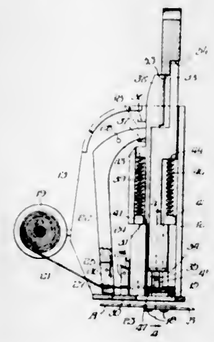
1. In mechanism of the character described, the combination of a hollow open mold member having its edge formed to the desired shape of the brim of a hat; a second mold member having the shape of the crown of such hat, and adapted to fit in the opening in said first member; a hollow base connected with said member; a circular flange extending upwardly from the bottom of said base; steam supply and drain pipes, both connected with said base outside of said flange; and an air suction pipe connected with said base inside of said flange.

1,339,306. ELECTRIC SWITCH. WILLIAM DAN THROOP, Norwich, Conn. Filed Nov. 11, 1919. Serial No. 337,364. 5 Claims. (Cl. 200—67.)



1. An electric switch, comprising a support, electric contacts on the support, a wall plate secured to the support, and having a slot therein, a strip secured to the inner face of the plate, bracket arms on the strip having recesses in their ends, a bail, lugs on the bail located in the recesses, switch arms secured to the bail, a sliding button movable on the plate, and a spring connecting the intermediate portion of the bail with the button.

1,339,307. CARPET-STITCHING DEVICE. CHARLES VALENTA, Chicago, Ill. Filed Feb. 21, 1919. Serial No. 278,503. 3 Claims. (Cl. 1—48.)



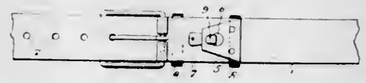
1. A machine of the character described comprising in combination a pair of vertically movable plungers mounted for relative reciprocation side by side, means for feeding wire laterally in the path of movement of said plungers, the lower end of one of said plungers being shaped to constitute a shearing means for the wire and the lower end of the other of said plungers being shaped to set a staple formed from said wire, and a manually operable handle mounted to swing above and across the upper ends of said plungers and having its lower edge formed to provide cams of differing contours, said cams acting respectively upon the upper ends of said plungers to impart a longitudinal thrust thereto by wiping across the upper end thereof.

1,339,308. TOOL-CARRYING SPINDLE. CHARLES E. VAN NORMAN, Springfield, Mass. Filed Feb. 18, 1918. Serial No. 217,981. 9 Claims. (Cl. 64—36.)



1. In combination with a high speed spindle, a casing therefor, a bearing for the spindle near one end of the casing, a sliding container near the other end of the casing, and a pair of bearings for the spindle and located within the container, the last-named bearings comprising, means attached to the spindle and affording two circular trackways, means contacting with the inner periphery of the container and held against endwise movement therein to afford two trackways in operating alinement with the first-named trackways, and a set of rolling members between each mating pair of trackways, one of said means including two separable rings, and adjustable means to confine them in operative relation with the rolling members.

1,339,309. BELT. CLAUD M. WALTZ, Summitville, Ind. Filed July 20, 1918. Serial No. 245,946. 2 Claims. (Cl. 24—79.)

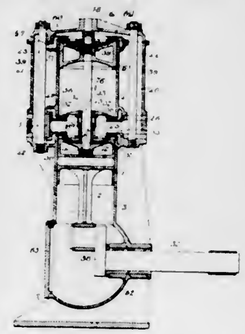


1. A belt structure comprising a flexible member provided at one end with a series of holes and at its other end with an eyelet, in combination with a buckle structure including a plate having knuckles formed at one end and having formed adjacent its ends loops adapted to receive the belt, a buckle proper pivotally connected within said knuckles, and a hook secured on the rear face of said plate and adapted for engagement thereon of the eyelet.

1,339,310. PRODUCING RESINOUS BASES FROM TAR. ERNST WIRTH, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 20, 1916. Serial No. 99,254. Renewed Aug. 6, 1919. Serial No. 315,785. 2 Claims. (Cl. 23—24.)

2. The process of recovering resinous bases having a high boiling point from tar, which comprises distilling off the phenols, diluting it with coal-tar, previously freed from phenols, removing the carbon by filtration, treating the product with a caustic solution, removing the lye, stirring the product with diluted sulfuric acid, removing the sulfates, cooling the mass, separating the pure tar from the resinous material contained in the mixture, extracting said resinous material with water to remove the soluble bases in the form of sulfates, treating the sulfate solutions with caustic alkali, and finally isolating the bases from the insoluble material thus produced by fractional distillation, substantially as described.

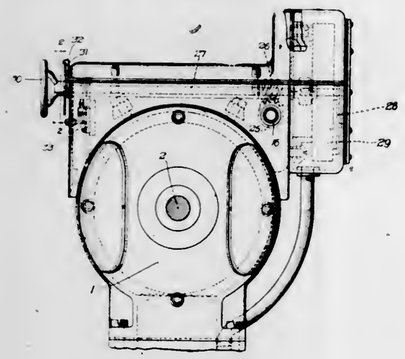
1,339,311. PUMP AND COMPRESSOR. JEAN ZWICKY, South Tottenham, England. Filed June 13, 1917. Serial No. 174,577. 7 Claims. (Cl. 103—54.)



1. A pump or compressor comprising in combination a pair of cylinders in axial alinement a concentric jacket surrounding the leading cylinder, a diametric partition in said jacket dividing the same internally into two

spaces, an inlet connection to one of said spaces, and an outlet connection to the other of said spaces, a valve casting uniting said cylinders, valves in said valve casting controlling the inlet to and the delivery from said cylinders, pistons in said cylinders, a piston rod connecting said pistons, a crank shaft journaled in the casting of the following cylinder beyond the working space thereof, a crank secured to said shaft, and rod connecting the following piston with said crank.

1,339,312. GRINDING, POLISHING, AND BUFFING MACHINE AND THE LIKE. HENRY FLEETWOOD ALBRIGHT, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 27, 1916. Serial No. 128,039. 4 Claims. (Cl. 172—239.)



1. In a device of the class described, a rotatable polishing wheel, a motor therefor, a rheostat for said motor, a spindle carrying the rheostat arm, a worm on said spindle, a gear coöperating with the said worm, a shaft carrying said gear, and an arm on said shaft arranged to move in the plane of said polishing wheel.

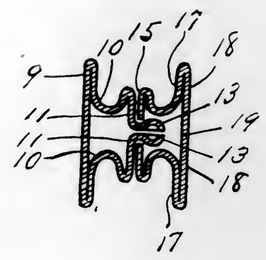
1,339,313. HEDDLE-HARNESS-SPACER MACHINE. FRED E. BEARDEN, Chesnee, S. C. Filed June 27, 1919. Serial No. 307,046. 7 Claims. (Cl. 139—94.)



1. A machine of the character described comprising a helical screw or worm, a helically coiled wire feed member, means active upon the helically coiled wire for opening the coils successively, and means for spreading the supporting cords of the heddle eyes of the harness and positioning the same relative to the first named means for the automatic placing of the eye supporting cords successively thereby in the helices of the coiled wire.

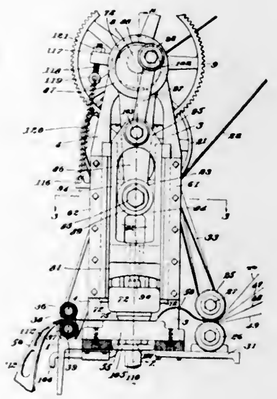
1,339,314. SEPARABLE CUFF-BUTTON. JOSEPH J. BERNIER, Chartley, Mass. Filed Feb. 7, 1920. Serial No. 357,025. 4 Claims. (Cl. 24—102.)

1. In a cuff fastener, an entering member comprising a head, an abutment, arms uniting the head and abutment, spaced compressible fingers on the abutment, and heads on the fingers, and a receiving member comprising a head, an abutment, and arms uniting the last mentioned head



and second abutment, the second abutment being provided with an opening adapted to admit passage therethrough of the heads upon the fingers when the fingers are compressed.

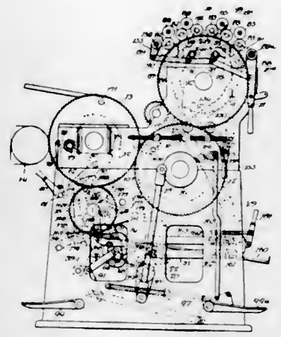
1,339,315. AUTOMATIC PAPER-CUP-FORMING MACHINE. WILLIAM W. BEVAN, Melrose, and CHARLES E. CLARKE, Winthrop, Mass. Filed Dec. 14, 1918. Serial No. 266,678. 5 Claims. (Cl. 93—60.)



1. In a machine of the class described, means to feed a plurality of strips of stock through the machine, said feeding means comprising continuously actuated feeding-in rolls and continuously actuated flexible feed-out rolls, in combination with a plurality of successively operated dies, and means to actuate said dies to momentarily stop the feeding of stock through the machine while stamping out cups therefrom.

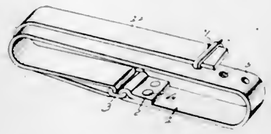
1,339,316. PRINTING-PRESS TRIPPING MECHANISM. JOSEPH R. BLAINE, Oak Park, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 22, 1916. Serial No. 92,819. 18 Claims. (Cl. 101—218.)

10. The combination with the plate cylinder of a printing press and the blanket cylinder, of tripping mechanism for the blanket cylinder operable in timed relation to the rotation of the said cylinder, of form inking rollers arranged in a plurality of sets, and means for successively tripping the sets of form inking rollers in isochronism



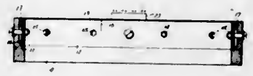
with the tripping of the blanket cylinder at a predetermined interval of time thereafter.

1,339,317. PACKAGE-TIE. JOHN B. CALHOUN, Apollo, Pa. Filed Nov. 27, 1918. Serial No. 264,376. 2 Claims. (Cl. 24—16.)



1. A package tie of the character described comprising a strap like flexible body, a loop carried by one end thereof, one portion of the strap being formed with a series of openings, an open loop shaped fastener adjustably engaged in any one of the openings, the strap like body being adapted for transverse positioning about a package and the free portion of the strap like body being inserted through the stationary loop and finally passed through the loop-shaped fastener and frictionally engaged by the latter to prevent accidental displacement.

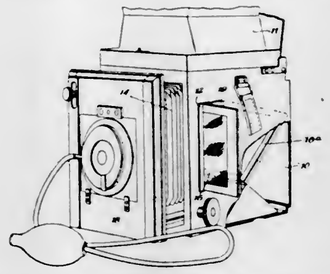
1,339,318. BANJO. ROCCO TONY CARLUCCI, West New York, N. J., assignor to Oscar Schmidt, Inc., Jersey City, N. J., a Corporation of New Jersey. Filed May 13, 1919. Serial No. 296,735. 3 Claims. (Cl. 84—121.)



1. In a musical instrument of the type described, the combination of a ring-shaped rim provided on the inner face near the lower edge thereof with an annular seat, a ring-shaped mounting detachably seated at its rear edge on the said seat within the said rim, the said mounting having a split extending from the front edge of the mounting toward the rear edge thereof and terminating short of said rear edge, a membrane stretched over the front edge of said mounting, and fastening means detachably fastening the said mounting to the said rim.

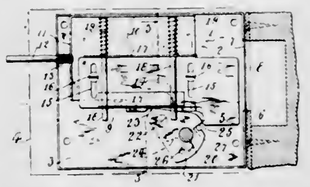
1,339,319. CAMERA. KUNGCHE CHEN, Shanghai, China. Filed May 24, 1919. Serial No. 299,575. 5 Claims. (Cl. 95—42.)

1. A camera of the reflex type having a casing and an elevatable reflecting mirror, said casing being provided with a vertically slotted opening at one side between the lens and the mirror, for the reception of a plate



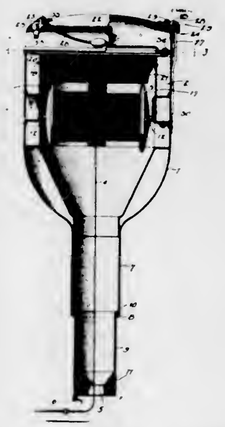
holder or a focusing glass, and a cover for normally closing said opening as described.

1,339,320. LATCHING DEVICE. BENJAMIN J. COHON, Westwood, N. J., assignor of one-half to Louis Moskowitz, Bayonne, N. J. Filed Mar. 21, 1916. Serial No. 85,545. 2 Claims. (Cl. 292—169.)



1. The combination of a movable carrier, a bolt mounted on the carrier and movable across the same, a spring and a cam for controlling the movement of the bolt with respect to the carrier, and a spring and a cam for effecting movement of the carrier and bolt in unison, said bolt being first moved in one direction relative to the carrier, and then in unison therewith, and finally relative to the carrier in the opposite direction to afford a locking effect.

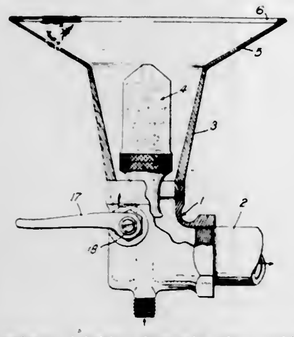
1,339,321. BUOY. WILLIAM S. CROUCH, Tacoma, Wash., assignor to Line Carrying Buoy Company, a Corporation of Delaware. Filed Sept. 3, 1919. Serial No. 321,355. 7 Claims. (Cl. 9—8.)



1. A buoy comprising means for buoyancy, a reel for paying out a retaining line, a basket for valuables above said reel, said means for buoyancy surrounding said

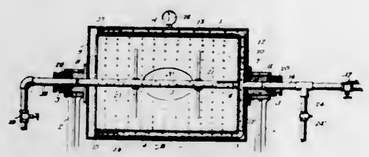
basket and reel, means for capping said buoy above said basket, and means for holding said basket affixed when said cap is in place and for releasing said basket when said cap is removed.

1,339,322. SANITARY DRINKING-FOUNTAIN. WILLIAM F. CURRAN, Annapolis, Md. Filed Oct. 1, 1918. Serial No. 256,480. 7 Claims. (Cl. 299—12.)



1. In a sanitary drinking fountain, the combination, of a water supply pipe, a nozzle mounted about said supply pipe, a valve plug carried by the upper end of said supply pipe, a gasket carried by said nozzle and adapted for engagement with said valve plug to cut off the supply of water through said nozzle, means for displacing said nozzle to allow the flow of water therethrough, said valve plug provided with a pocket beneath the outlet of said nozzle for receiving water from the nozzle outlet when the valve plug and gasket are in engagement with each other, said valve plug provided with a transverse duct communicating with said pocket to drain water therefrom.

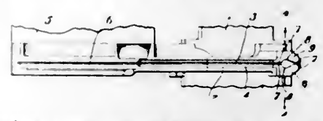
1,339,323. GRAIN AND FOOD COOKER. ISAAC C. DAKIN, Owosso, Mich. Filed Nov. 26, 1917. Serial No. 203,977. 5 Claims. (Cl. 99—2.)



1. In a rotary steam cooker, the combination of a horizontally arranged outer cylindrical casing, a foraminated cylinder within and spaced from the side and head walls of the outer casing, a steam inlet through the head of the outer cylinder, a pipe in communication with the inlet for delivering steam into various portions of the space between the cylinders, a centrally arranged exhaust pipe extending through the foraminated cylinder and communicating with an outlet and regulating valves for governing the inlet and outlet.

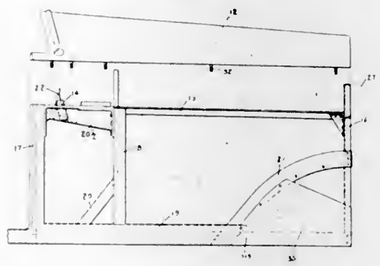
1,339,324. BUTTON-FEED MECHANISM FOR BUTTON-ATTACHING MACHINES. SAMUEL L. SNEIERSON, Roxbury, Mass., assignor to Independent Button Fastener Machine Co., Boston, Mass., a Corporation of Massachusetts. Filed July 8, 1918, Serial No. 243,784. Renewed Aug. 4, 1919. Serial No. 315,284. 6 Claims. (Cl. 218—12.)

1. In a button attaching machine of the class wherein wire is adapted to be fed through the eye of the button, button feed mechanism comprising a raceway having an inclined button head supporting surface and a central longitudinal eye receiving slot, the edges of the intersection of the said slot with said supporting surface being



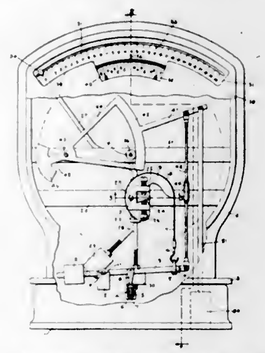
relieved, and a slotted button support at the foot of said raceway having a tapered enlargement of its slot above the line of feed of the wire.

1,339,325. AUTOMOBILE-BODY CONSTRUCTION. BERTICE M. DIVER, Indianapolis, Ind. Filed Mar. 12, 1919. Serial No. 282,202. 6 Claims. (Cl. 180—89.)



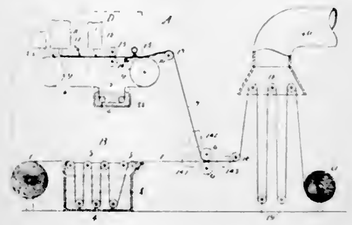
1. The combination with the chassis of a motor driven vehicle, having a body frame including longitudinal base members, and a body secured to said frame having a hood portion in the forward end thereof, of means for inclosing said hood portion comprising a hood and cowl top formed of a single piece adapted to be removably secured on the hood portion of said frame for inclosing the top thereof, and a hinged door mounted on the side of the hood portion of said frame for inclosing the sides thereof and permitting access to the inside thereof when said door is raised.

1,339,326. AUTOMATIC WEIGHING-SCALE. HENRY E. EARL, Indianapolis, Ind. Filed July 16, 1918. Serial No. 245,129. 4 Claims. (Cl. 265—62.)



1. In an automatic weighing scale, the combination with a swinging pound indicating arm, of a rotating disk having fractional pound graduations thereon, a pinion connected with said disk, a segmental rack coöperating with said pinion, and means independent of each other for simultaneously operating said rack and indicating arm whereby said arm and disk will move in unison to designate the weight of an object in pounds and fractional parts of a pound.

1,339,327. METHOD OF MANUFACTURING PREPARED ROOFING. SILAS M. FORD, St. Paul, Minn. Filed Feb. 3, 1916. Serial No. 76,050. 21 Claims. (Cl. 154—40.)



1. The method of making prepared roofing, comprising the formation of a sheet of water-proof material, by depositing water-proof material on a moving heat resisting belt, removing said water-proof material from said belt in the form of a sheet, and thereafter joining said sheet with a foundation sheet, so as to form a unit therewith.

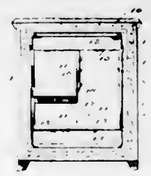
2. The method of making a prepared roofing, comprising the formation of a sheet of water-proof material, by depositing on a heat resisting moving belt a water-proof material, leveling the top of said water-proof material so as to make a sheet of the desired thickness, removing said sheet from the belt, and thereafter joining it with the foundation sheet separately prepared, so as to form a unit sheet therewith.

3. The method of making a prepared roofing, comprising the formation of a sheet of water-proof material, by depositing water-proof material on a heat resisting moving belt, scraping and rolling said water-proof material to the desired thickness and thereafter combining it with a sheet of water-proof foundation stock, as it comes from the water-proofing compound, so as to form the two sheets so prepared into a unit sheet.

4. The method of making a water-proof material, for roofing purposes, comprising the running of a heat resisting endless belt, depositing thereon a substance easily removed from said belt, depositing over this deposit a water-proofing compound, working the water-proofing compound so deposited down to the required thickness and removing it from the belt in a sheet.

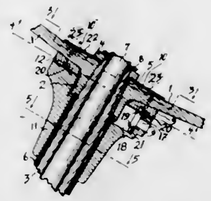
5. The method of making a prepared roofing, comprising the forming of a sheet of water proof material by depositing on a heat resisting moving endless belt a water-proofing compound at a comparatively high temperature, chilling the compound and running it from the belt in a sheet; then cooling the belt before it returns to the point where the compound is applied, and joining the sheet so formed with the sheet of foundation stock previously prepared, so as to unite the two sheets into a unit sheet.

1,339,328. LINING FOR REFRIGERATORS. HENRY GELKE, Brooklyn, N. Y. Filed Feb. 14, 1919. Serial No. 276,992. 2 Claims. (Cl. 217—3.)



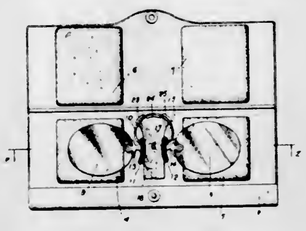
1. A refrigerator lining comprising top and bottom and intermediate sections joined together, the intermediate section consisting of a larger section and two smaller sections joined to each other and to the top and bottom sections by interlocking seams, and an ice tray having certain of its marginal edges interlocked with the seams joining the smaller sections.

1,339,329. STEERING-GEAR LOCK FOR AUTOMOBILES. HARRY F. GEORGE, Chicago, Ill. Filed Sept. 4, 1919. Serial No. 321,621. 8 Claims. (Cl. 70—129.)



1. A device of the character described including an element adapted to be disposed below spokes of the steering wheel of a steering gear, a projection on said element extending upwardly therefrom and adapted to extend between spokes of the wheel to form a positive rotatory connection between the wheel and element, a second element adapted to be fixed to the stationary column of the steering gear and having an upwardly facing transverse surface engageable with the under surface of said first mentioned element to prevent downward movement thereof and to prevent said projection from disengaging from the spokes of the wheel, and having a locking device adapted to be actuated to rotatively fix said first and second mentioned elements.

1,339,330. EYEGLASS CASE AND CLEANING DEVICE. RINALDO A. GOELKEL, New York, N. Y. Filed July 12, 1919. Serial No. 310,326. 3 Claims. (Cl. 206—6.)

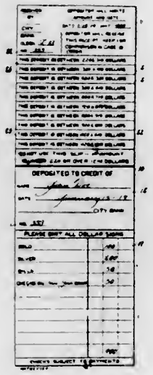


3. A combined eyeglass case and cleaner comprising an inclosing casing, a plurality of pads arranged in said casing, a movable member arranged centrally of the casing, said movable member comprising a body having an opening therein, a pair of upstanding ears, a plurality of lugs arranged at one end, the center lug being offset from the remaining lugs whereby the bridge piece of a pair of eyeglasses may fit therebetween and the grips of the eyeglasses may grip said upstanding ears, and a manually operated member extending into said aperture for moving the movable member and the eyeglasses carried thereby so that the lenses thereof will rub against said pads and be wiped thereby.

1,339,331. DEPOSIT-SLIP. NATHAN E. GOLDBERG, New York, N. Y. Filed Feb. 7, 1919. Serial No. 275,626. 2 Claims. (Cl. 283—12.)

1. A bank deposit slip embodying a body of sheet material having thereon a blank form or certificate of deposit, and at one edge only a receipt blank provided with a heading and a plurality of lines of printed matter one adjacent the other with straight tearing lines therebetween and each

indicating an amount of deposit between certain sums, the successive lines of printed matter indicating progres-



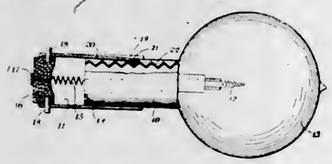
sively higher amounts from the receipt blank, all of the data on the sheet body appearing transversely and reading in one direction.

1,339,332. POWER CONTROL FOR AERONAUTICAL MACHINES AND THE LIKE. ARTHUR JOHN GREENLY, London, England. Filed July 22, 1919. Serial No. 312,533. 13 Claims. (Cl. 244—29.)



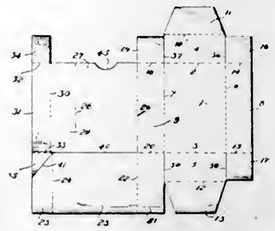
1. The combination, with a support, of a double-ended control-lever mounted thereon so that it can rock about either and both of two axes at right-angles to one another and adapted to be operated manually at one end, a port-face having ports located at the opposite ends of two diameters, and a slide-valve operatively connected to the other end of the contorl-lever and arranged to move upon the said port-face in all directions to and from a central neutral position.

1,339,333. EXTENSION-BASE LAMP-BULB. PAUL P. HEIN, New York, N. Y. Filed Nov. 5, 1918. Serial No. 261,247. 4 Claims. (Cl. 176—32.)



3. In an electric lamp, the combination of a base comprising a sleeve having longitudinal slits forming a flexible tongue, a member fitted telescopically within the sleeve and having a series of depressions with which the free end portion of the tongue is adapted to coöperate, and a lamp bulb carried by said member having the depressions.

1,339,334. SELF-LOCKING PAPER CARTON. JOSEPH B. HEISER, Williamsport, Pa. Filed Mar. 25, 1919. Serial No. 284,938. 2 Claims. (Cl. 229—16.)



1. In a self locking paper box the combination of a bottom member; a plurality of side members integral with said bottom member; a plurality of end members also integral with said bottom member; an outer top member integral with one of said side members; a reinforcing side member integral with said top member; a flap having an ear at each end integral with said reinforcing side member; a reinforcing end member also integral with one of said side members; and a reinforcing inner top member provided with a second reinforcing end member and integral with said first mentioned reinforcing end member, substantially as described.

1,339,335. COUPLING DEVICE OR SPLICE FOR WAGON OR TRAILER TONGUES. CHARLES A. HENNICKE, Cleveland, Ohio. Filed Aug. 16, 1919. Serial No. 318,003. 2 Claims. (Cl. 280—33.2.)



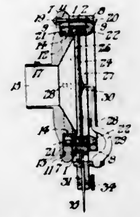
1. In a coupling or splice device of the character described, the combination with a draw iron having means for its attachment to one of the two members to be coupled, and also having an eye, of a plate adapted to be attached to the other member to be coupled, said plate having an eccentric projection constructed to fit within the said eye, and a clamping bolt arranged to pass through the said projection and having a hooked end portion which can be turned into and out of engaging position with said projection, substantially as described.

1,339,336. FLYING-MACHINE. GEORGE R. HENRY, Denver, Colo. Filed Dec. 22, 1917. Serial No. 208,364. 7 Claims. (Cl. 244—12.)



4. A flying machine, including a main wing whose length is several times greater than its width, its length being longitudinally disposed with respect to the direction of flight, and a stabilizing wing whose length is greater than its width, the said stabilizing wing being spaced from the main wing and having its length disposed at right angles to the direction of flight, said stabilizing wing having a central depression, the side and end portions of the wing being bowed vertically between their extremities.

1,339,337. SOUND-BOX FOR TALKING-MACHINES. GEORGE HETHERINGTON, Philadelphia, Pa. Filed July 25, 1918. Serial No. 246,690. 3 Claims. (Cl. 274—35.)



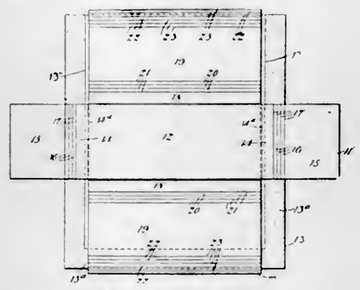
1. The combination with a spring held stylus bar; of a diaphragm operatively related thereto and mounted so as to be shifted axially in different planes.

1,339,338. FRUIT-HARVESTER. HENRY N. HICKOK, Rochester, N. Y. Filed June 23, 1919. Serial No. 306,105. 5 Claims. (Cl. 193—29.)



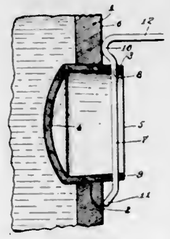
1. In a fruit harvester, a conveyer formed of a number of sections of flexible material, each having a supporting ring at its upper edge, and having its lower end lying within the ring of the section next below it and secured to each section below such ring to provide a cushion for such ring.

1,339,339. FOLDING BOX. PETER ALBERT HOFFMAN, Hastings, Minn. Filed July 26, 1919. Serial No. 313,458. 6 Claims. (Cl. 229—40.)



1. A folding receptacle of the class described having a body panel constituting one face of the box, foldable unscored panels extending laterally from the body panel at the four sides to form the main area of the sides and ends of the receptacle, foldover flaps united to the side and end panels to constitute the opposite face of the box, and a plurality of narrow panels connecting the said flaps with the respective side and end panels, there being score lines defining said narrow panels to adapt the latter to form part either of the flaps or the adjacent panels, there being additional score lines adjacent to the free ends of the turnover flaps and distant from those score lines adjacent to the side panels, said additional score lines dividing the edge portion into a plurality of small panels, any of which may be folded down onto the adjacent side panel when the flaps are folded over.

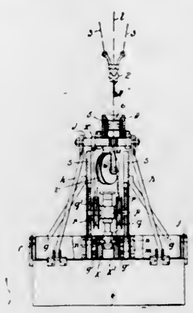
1,339,340. HAND-HOLE COVER. WILLIAM W. HOLLAND and FRANK J. GAINER, Woodriver, Ill. Filed Dec. 19, 1919. Serial No. 346,096. 2 Claims. (Cl. 220—24.)



1. In combination a hand hole cover consisting of a tapered plug adapted to be inserted in a hand hole from within, means for holding said plug and preventing its displacement toward the inside of the header consisting of a pin passing through the end of the plug, having both ends offset in the same direction, and means for rotating the pin to bring the offset ends in contact with the header wall, applying tension to the plug, tending to draw it outward.

2. A hand hole cover consisting of a frusto-conical plug adapted to be inserted small end first from within the header so that the small end of the plug protrudes outward beyond the header wall and a spring pin extending through the small end of the plug outside the wall and offset at both ends so that both ends engage the header wall preventing the plug from becoming unseated.

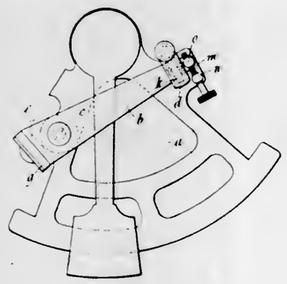
1,339,341. GRABS, LIFTING-DOGS, AND LIKE LIFTING AND LOWERING APPARATUS. WALTER JOHN HOLLICK, Manchester, England. Filed Feb. 25, 1920. Serial No. 361,329. 12 Claims. (Cl. 37—30.)



3. In lifting and lowering apparatus, the combination of a cross head, a frame, sections pivoted to the frame and having an articulated connection with the cross head, an element mounted for reciprocation on said frame, a lifting cable connected with said element and cross head, coupling means between the element and frame comprising two coacting members, one having a zig-zag cam portion and also cam portions for guiding a follower to definite positions

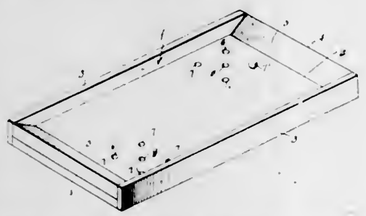
with respect to said zig-zag portions, the other of said members constituting a follower adapted upon successive slight reciprocations of the element on the frame to react with the said cam portions and produce a relative movement between the members progressively according to a definite order to couple and uncouple said element and frame.

1,339,342. SEXTANT. ALEXANDER HUGHES, London, England, assignor to Henry Hughes and Son, Limited, London, England, a Corporation of Great Britain. Filed Apr. 19, 1919. Serial No. 291,233. 5 Claims. (Cl. 88—1.)



1. In a sextant, the combination of a bar pivoted to the sextant limb, a frame, a telescope tube rigidly fixed to one end of said bar, a horizon glass comprising clear and silvered parts mounted in said frame at the opposite end of said bar, means for adjusting the said frame in a direction normal to the line between the clear and silvered parts of the horizon glass and to the axis of the telescope tube, and means for effecting a fine adjustment of the bar about its pivotal support.

1,339,343. MARBLE GAME-BOARD. FRANK A. HULETT, South Londonderry, Vt. Filed June 4, 1918. Serial No. 238,178. 1 Claim. (Cl. 46—61.)



A game board comprising a substantially rectangular flat base plate, a plurality of spaced pockets formed in the upper surface of the plate adjacent the opposite diagonal corners thereof, flat side bars secured to the longitudinal edges of the plate forming retaining members and projecting above the upper surface thereof, end bars carried by the transverse edges of the plate and secured to the upper surface of the plate and having downwardly and inwardly inclined upper surfaces, said surfaces being arranged to receive and project a marble toward said pockets, the pockets being arranged in a square formation, as and for the purpose specified.

1,339,344. ALUMINOUS COMPOSITION AND METHOD OF MAKING THE SAME. OTIS HUTCHINS, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Sept. 18, 1919. Serial No. 324,553. 7 Claims. (Cl. 204—64.)

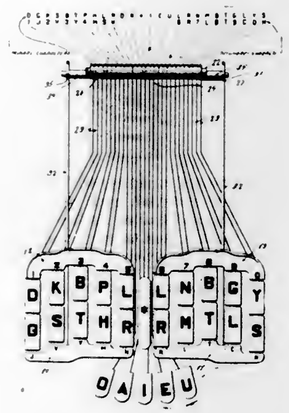
5. The method of making an aluminous abrasive which consists in fusing in an electric furnace a mixture containing an aluminous material and a strontium compound which upon such furnace fusion yields strontium oxid, substantially as described.

1,339,345. METALLIC RAILWAY-CROSSTIE. JACOB A. HYLE, Philadelphia, Pa., assignor to Tri-City Steel Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 21, 1920. Serial No. 352,947. 9 Claims. (Cl. 238—286.)



1. A metallic railway cross tie having a flat base portion, and a central upright member provided with a plurality of openings adapted to receive securing bolts, two wooden blocks resting on said base at each side of the upright member, each block extending laterally beyond the base, and a clamping yoke straddling the tie base and blocks and in contact with the outer side face of each block.

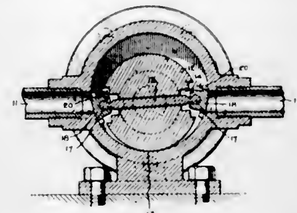
1,339,346. SHORTHAND-MACHINE. WARD S. IRELAND, St. Louis, Mo., assignor to National Shorthand Machine Company, St. Louis, Mo., a Corporation of Delaware. Filed Feb. 21, 1917. Serial No. 150,053. 33 Claims. (Cl. 197—9.)



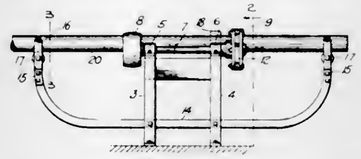
1. A keyboard for writing machines comprising two rows of primary keys and a pair of elongated rigidly connected shift keys, one of said shift keys being disposed on each side of said rows of primary keys and so arranged with respect to said primary keys that a contiguous shift key may be actuated by the same finger that actuates any individual primary key.

1,339,347. PUMP. HARRY JACKSON, Brooklyn, N. Y. Filed Aug. 2, 1919. Serial No. 314,839. 4 Claims. (Cl. 103—44.)

4. A pump, including a rotor mounted within a casing provided with inlet and outlet openings, a vane slidably associated with such rotor, and shoes rockingly mounted upon the outer ends of such vane and being adapted to coact with the inlet and outlet openings of such casing in such a manner as to partially close one of such openings and completely close the opposite opening simultaneously.

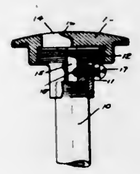


1,339,348. FLUE-CLEANING MACHINE. HARRY H. JONES, Segundo, Colo., assignor of one-half to A. L. Dain, Trinidad, Colo. Filed Mar. 12, 1919. Serial No. 282,243. 5 Claims. (Cl. 29—81.)



1. A flue-cleaning machine comprising in combination, a revolving head, hammers pivoted thereon for outward motion by centrifugal action, supports remote from the head at opposite sides thereof, for holding a flue in a position to be struck by the hammers, and adjustable means adjacent the head for limiting a lateral motion of the flue.

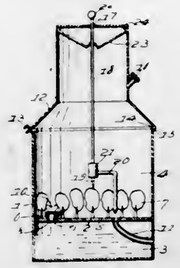
1,339,349. HALF-SPRAY SPRINKLER. VENICE A. H. KAHLER, Pasadena, Calif. Filed Nov. 7, 1917. Serial No. 200,828. 4 Claims. (Cl. 299—18.)



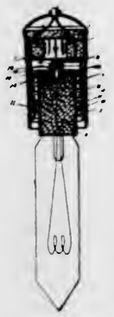
4. A sprinkler head comprising a base adapted to be screwed upon the end of a supply pipe and having a central opening and having an enlarged externally screw-thresded upper end; a spray plate adapted to screw upon said enlarged end and having an orifice extending partially around the plate, said orifice being substantially semicircular in plan; and a deflector lug extending from substantially the center of the plate into substantially the center of the orifice at its straight side.

1,339,350. SIGNALING - BOILER. MARVEN KELLEY, Luling, Tex. Filed Oct. 25, 1918. Serial No. 259,687. 3 Claims. (Cl. 116—1.)

3. A signaling boiler having a partition therein, vegetable supporting means carried above the partition, a cover for the boiler, a whistle, a steam outlet, and a combined vegetable tester and outlet closure medium engageable with a vegetable upon the vegetable supporting means, whereby when said vegetable becomes cooked, the steam outlet may be closed and steam directed through the whistle as herein shown and specified.



1,339,351. LAMP-BASE. WILLIAM I. KEMBLE, San Francisco, Calif. Filed May 26, 1916. Serial No. 100,109. 3 Claims. (Cl. 176—31.)

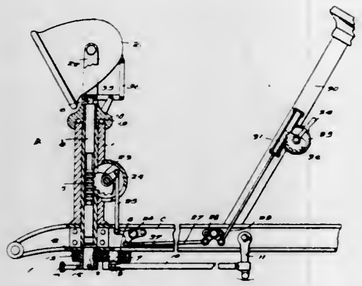


2. The combination with a lamp socket provided with a threaded shell and having a central contact member, of a lamp provided with a base insertible into said socket, a casing of electrical conducting material mounted on said base, one end of the filament of said lamp being connected to said casing, a threaded shell connected to the base and electrically connected to said casing, said shell being adapted to be screwed into the shell of the socket so as to establish electrical connection between the same and one end of the lamp filament, a contact member mounted upon the upper end of the lamp base and adapted to be engaged by the contact member of the lamp socket, and means for securing the body of the lamp base to the threaded casing carried thereby so as to permit independent rotation of the base, said means also serving to secure the contact member of said lamp to the upper end of said base.

1,339,352. DIRIGIBLE HEADLIGHT. WILLIAM W. KENNARD, Sewickley, Pa. Filed May 14, 1918. Serial No. 234,393. 1 Claim. (Cl. 240—61.)

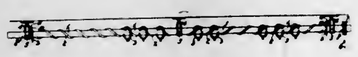
A movable headlight of the character described comprising a tubular standard, a cap for said standard having a screw threaded opening formed therein and movable with respect to said standard, a rotatably mounted tubular shaft in said standard and connected with said cap, a headlight device connected with said cap, means for mounting said headlight device to swing vertically relative to said tubular shaft, a rod carried within and movable vertically with respect to said shaft, an encircling

gear rack on said rod, a manually operable gear segment carried by said standard and engaging said gear rack for



imparting vertical movement to said rod and means connecting said rod with the headlight device for moving the same on its transverse axis.

1,339,353. DRAPERY - CURTAIN - POLE FIXTURE. WALTER EDWARD KIMBER, London, England. Filed Nov. 13, 1918. Serial No. 262,346. 2 Claims. (Cl. 156—19.)

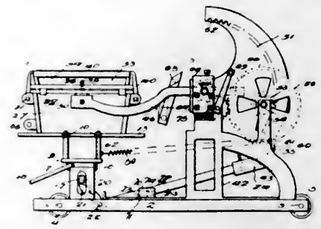


1. A drapery curtain pole fixture comprising pole brackets having hook shaped supports each provided on its lower bend with a pair of parallel rollers spaced anart a distance less than the diameter of the pole to be supported, one of said brackets having a downward opening between said rollers, a drapery curtain pole adapted to be dropped into or lifted out of said hook shaped supports and provided with plain end portions engaging said rollers and a spiral rib between said end portions, drapery suspension rings hung on the spirally ribbed portion of said pole and movable lengthwise thereon by the action of said spiral rib on the rotation of said pole, and a flexible operative band looped over said pole, engaging the upper periphery thereof and adjacent peripheries of said rollers and depending between said rollers through said downward opening.

2. A drapery curtain pole fixture comprising pole brackets having hook shaped supports each provided on its lower bend with a pair of parallel rollers spaced apart a distance less than the diameter of the pole to be supported, one of said brackets having a downward opening between said rollers, a drapery curtain pole adapted to be dropped into or lifted out of said hook shaped supports and provided with plain end portions engaging said rollers and a spiral rib between said end portions, drapery suspension rings hung on the spirally ribbed portion of said pole and movable lengthwise thereon by the action of said spiral rib on the rotation of said pole, and a flexible operative band looped over said pole, engaging the upper periphery thereof and adjacent peripheries of said rollers and depending between said rollers through said downward opening, said rollers being grooved and said band being in the form of a cord fitting said grooves.

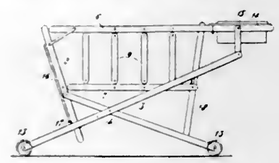
1,339,354. MOLDING-MACHINE. JOHN KNAPP, Holland, Mich. Filed Apr. 2, 1919. Serial No. 286,859. 7 Claims. (Cl. 22—32.)

1. In a molding apparatus, a supporting frame, spaced standards thereon, a cross bar connecting the standards, a squared sleeve depending from the cross bar, a table, a shank depending from the table and vertically slidable through the sleeve, means for raising and lowering the



table, and laterally adjustable wear plates connected to the inner faces of certain of the walls of the sleeve for coacting with the shank.

1,339,355. COLLAPSIBLE BABY AND WHEELING CHAIR AND CARRIAGE. DIRK LODEWIJK KOHLMAN, Dordrecht, Netherlands. Filed Nov. 2, 1918. Serial No. 260,835. 1 Claim. (Cl. 15—58.)



In a collapsible baby and wheeling chair and carriage of the type referred to, adapted for use also as a cradle or a children's bed, the combination with the upper members of the cradle or bed, of extended portions, links detachably connecting said portions, to the top of the pair of legs means for connecting said pair of legs indirectly to the uprights forming the head of the cradle, in such a manner that the cradle of the bed may be placed in a lower position, guides secured to the head of the cradle or bed, and guide rods attached to the pair of legs connected indirectly to the head of the cradle or bed, substantially as described.

1,339,356. SLAB OR BRICK FOR DRIVEWAYS. GEORGE V. KONDOLF, Rochester, N. Y. Filed Oct. 9, 1919. Serial No. 329,562. 5 Claims. (Cl. 238—5.)

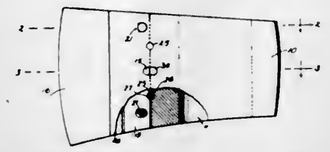


1. A driveway for automobiles, etc., comprising a series of slabs or bricks, each of said slabs or bricks being provided with anchors projecting out from the bottom thereof, a tie rod having holes therein placed below said slabs or bricks to hold a series of said slabs or bricks together and in line with one another, said anchors being adapted to pass through the holes in said tie rod and project into the ground.

1,339,357. AX. CHARLES JOSEPH KOPRIVA, New York, N. Y., assignor to Alois F. Kopriva, Stony Brook, N. Y. Filed Jan. 27, 1919. Serial No. 273,405. 1 Claim. (Cl. 145—3.)

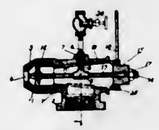
An ax comprising a head having a socket for a handle and provided with a groove, a bit having a back fitting into the said groove, the walls of the groove in the said ax head and the said back having registering apertures therethrough spaced from the outer edges of the walls

of the groove and from the inner edge of the back respectively, of which the apertures in the back are elongated in a direction at right angles to the outer edges of the walls in the groove in the ax head, and the apertures in the walls of the groove are tapering, tapering pins driven



into the said registering apertures for drawing said bit into said groove, the said ax head and the inner edge of the said back having registering apertures and notches, and pins driven into the said registering apertures and notches for preventing vibration of the inner edge portion of the back of said bit.

1,339,358. FUEL-OIL BURNER. THEODORE F. KRIEG, Detroit, Mich. Filed Dec. 27, 1918. Serial No. 268,532. 3 Claims. (Cl. 158—76.)



3. A burner for oil burning furnaces comprising a hollow body longitudinally tapered from one end to provide a seat for a valve and having an internally coned, apertured forward end, an oil line leading into the body at a right angle to the axis thereof having a nozzle terminating adjacent the apertured end, said body having a conduit opening through one side thereof opposite the oil line and a tapered valve seating in the body, the valve having a longitudinal slot on one side and a circumferential slot opening into the bottom thereof allowing the valve to be passed into the body over the oil line, and enabling the valve to be turned on its seat, the valve having an aperture on the opposite side adapted to register with the opening to the conduit, means for holding the valve on its seat, and means for rotating the valve.

1,339,359. PENHOLDER-CLIP. JOHN KRITIKSON, Chicago, Ill., assignor to Illinois Pen Company, Chicago, Ill., a Corporation of Illinois. Filed May 27, 1918. Serial No. 236,728. 7 Claims. (Cl. 24—11.)



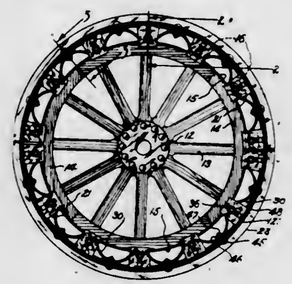
7. In a fountain pen clip the combination of a member one end of which is arranged at an angle to the opposite end and normally spaced apart from the portion to which it is attached, said member being pivoted to move upon the vertex of the angle as a pivot and being mounted upon a member which is arranged in the plane of movement of and at the vertex of the angle of said member.

1,339,360. FIREPROOF PARTITION. ELOF R. LEONARD, Woodcliff, N. J. Filed Mar. 25, 1919. Serial No. 285,060. 5 Claims. (Cl. 72—46.)



1. In building construction, the combination of skeletonized metal studding, top and bottom channel bars, a system of intermediate, vertical channel bars having inwardly deflected, separated edges forming between them, longitudinal undercut grooves constituting anchor seats, a system of intermediate horizontal channel bars, and incombustible panels supported thereby.

1,339,361. SPRING-WHEEL. MORRIS LEVY, Denver, Colo. Filed Oct. 21, 1918. Serial No. 259,016. 9 Claims. (Cl. 152—8.)



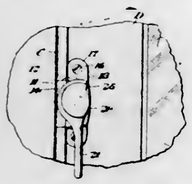
2. In a spring wheel, the combination with a hub and a felly, of a rim spaced therefrom, resilient means interposed between the felly and the rim, comprising an elongated undulated leaf spring, engaging points on the rim and on the felly alternately, means connected with the felly and engaging the outer face of the spring at each point where it engages the felly to retain the spring in position, and similar means connected with the rim and loosely engaging the inner side of the spring at each point where it engages the rim to retain the spring in position and permit sliding movement in the direction of its length, the undulations of the spring being on long curves whereby said longitudinal movement of ths spring may take place.

8. In a spring wheel, the combination with a hub and a felly, of a rim spaced therefrom, resilient means interposed between the felly and the rim, comprising an elongated undulated leaf spring, engaging points on the rim and on the felly alternately, means connected with the felly and engaging the outer face of the spring at each point where it engages the felly to retain the spring in position, an approximately U-shaped spring reinforcing the leaf spring at each point where it engages the felly, and similar means connected with the rim and loosely engaging the inner side of the spring at each point where it engages the rim to retain the spring in position and permit movement in the direction of its length.

1,339,362. SASH-LOCK. JOSEPH ETIENNE L'HEUREUX, Manville, R. I. Filed Apr. 11, 1919. Serial No. 289,457. 1 Claim. (Cl. 292—241.)

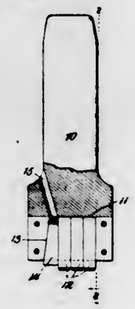
In combination with a sash and window frame provided upon its inner faces with longitudinally extending retaining strips having cut out portions, locking means comprising retaining members in the form of plates sunk into the inner faces of the window frame and having extensions filling said cut out portions, and fastening members carried by the sash and coöperating with said retaining members, each of said fastening members comprising a casing.

a latch member having a stem revoluble within said casing and including a head mounted eccentrically upon the stem whereby upon rotation of the latch member said head will be extended into engagement with one face of the associated extension, a handle formed integrally upon the head, said stem having diametrically opposite flattened



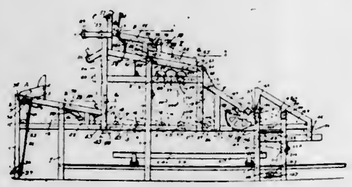
portions, and a substantially U-shaped leaf-spring disposed within the casing and having its bight portion and terminals prevented from movement, the arms of said spring engaging the flattened portions of the stem for holding said latch member in either operative or inoperative position.

1,339,363. DIE-HOLDER. RICHARD T. MCGEE, Wheeling, W. Va. Filed Apr. 4, 1918. Serial No. 226,651. 4 Claims. (Cl. 101—28.)



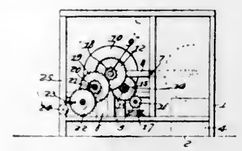
1. In a device of the class described, the combination of a die holder having a die receiving socket, a die in said socket, and inertia intensified locking means securing the die in the socket, said inertia intensification being produced by blows struck upon the holder and advancing both the holder and die.

1,339,364. FRUIT CUTTING AND PITTING MACHINE. CHARLY OKA, Santa Clara county, Calif. Filed Apr. 3, 1919. Serial No. 287,118. 13 Claims. (Cl. 146—6.)



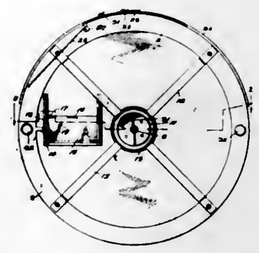
1. A fruit cutter and pitter comprising in combination, a framework supporting a fruit dumping device, a spreader, an elevator, a feeder, a first positioner, a second positioner, a fruit halving device, a pit removing device, fruit transferring devices, fruit distributing means, fruit inverting means, fruit carrying and placing means, and fruit receiving means operatively mounted with relation to each other.

1,339,365. PEANUT-ROASTER. SAMUEL C. PECKHAM, Mexia, Tex. Filed June 20, 1918. Serial No. 240,989. 1 Claim. (Cl. 34—5.)



In a peanut roaster, a frame, a rock shaft journaled in the frame and provided at either end with fixedly attached arms, a drum rotatably mounted between the arms, a driving medium carried on the frame and an alarm also carried on the frame, and a gear train connecting the driving medium with the drum and a second gear train connecting the drum with the alarm.

1,339,366. FIREPROOF FILM-REEL. WILLIAM RICE, New York, N. Y. Filed Sept. 24, 1919. Serial No. 325,985. 9 Claims. (Cl. 88—17.)



1. A film reel including a hub, side walls secured to such hub, stationary means encircling the outer edges of such side walls, one of such side walls being provided with an opening adapted to be closed by a door, and means for preventing complete rotation of such side walls with respect to such stationary means when the door is in open position.

1,339,367. FRUIT PITTER AND CUTTER. WILLIAM N. RISDON, Watsonville, Calif., assignor of one-half to Mrs. I. V. Risdon, Watsonville, Calif. Filed Dec. 29, 1919. Serial No. 348,120. 7 Claims. (Cl. 146—6.)

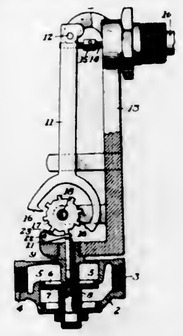


1. A device of the character stated, comprising a rotary fork having a cutting edge, and a member connected to the intermediate portion of the fork and having a cutting edge thereon.

1,339,368. THERMOSTATIC VALVE MECHANISM. FREDERICK W. ROBERTSHAW, Pittsburgh, and GEORGE A. ROBERTSHAW, Greensburg, Pa. Filed May 21, 1919. Serial No. 298,695. 6 Claims. (Cl. 236—33.)

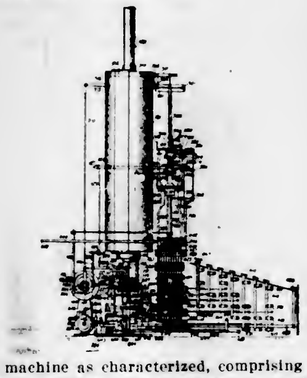
1. In thermostatic valve mechanism, the combination with a gas valve and a thermostat, of a spring device

acting upon the valve in one direction, a motive device acting upon the valve in the opposite direction, and an



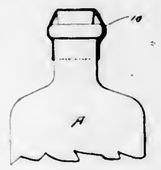
escapement device controlled by the thermostat and controlling the operation of the motive device, substantially as described.

1,339,369. TYPEWRITING-MACHINE. PEDRO ROBLE, Bogota, Colombia. Filed Mar. 4, 1915, Serial No. 12,079. Renewed Oct. 18, 1919. Serial No. 331,742. 9 Claims. (Cl. 197—10.)



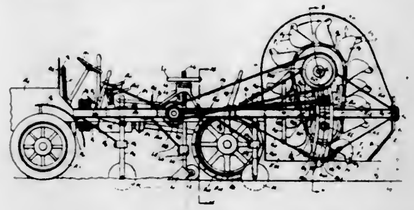
1. A machine as characterized, comprising a vertically-disposed, cylindrical, rotary platen; power-driven means for rotating the same in one continuous direction; power-driven means for elevating said platen between the normal margins of the printing space; and means for suspending the operation of said means for elevating said platen in correspondence with an operation of the printing mechanism begun before and continued after the normal right hand margin of the printing space is reached.

1,339,370. METHOD OF CAPPING BOTTLES. BERNARD F. ROEHRIG, Pasadena, Calif. Filed Nov. 7, 1918. Serial No. 261,518. 2 Claims. (Cl. 215—9.)



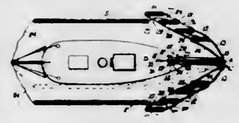
1. The hereindescribed solution for treating gelatin caps for bottles to render said caps soft and pliable while wet and tough when dry, said solution being composed of water, formaldehyde, glycerin, and a coloring agent.

1,339,371. BUCKET PLOW. WILLIAM WATSON, Portland, Oreg. Filed May 12, 1919. Serial No. 296,509. 3 Claims. (Cl. 97—66.)



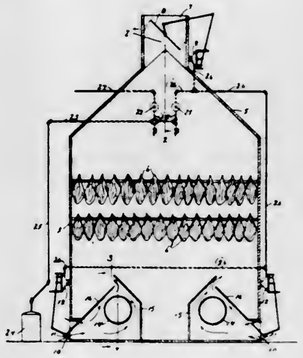
2. In a plow, the combination of a plurality of buckets adapted to be rotated upwardly against the soil, a frame, shafting, sprocket wheels and chains for carrying said buckets, a means for rotating said buckets, a means for controlling the vertical position of the buckets consisting of a winch adapted to raise or lower the frame which carries said buckets and their related parts, and a means for preventing the pulverization of the soil consisting of an inclined surface against which the dirt is discharged from the buckets.

1,339,372. PROTECTION OF SHIPS AGAINST TORPEDO ATTACK. LUCIUS E. WHITON, New London, Conn. Filed July 22, 1918. Serial No. 246,006. 6 Claims. (Cl. 114—240.)



1. Means for protecting ships against torpedo attack, comprising barriers floated on edge in spaced relation and disposed one in advance of the other, and towing lines connecting the forward and rearward portions of such barriers in substantial parallelism, adapted when relatively displaced to simultaneously change the angles of said barriers with respect to a ship protected thereby.

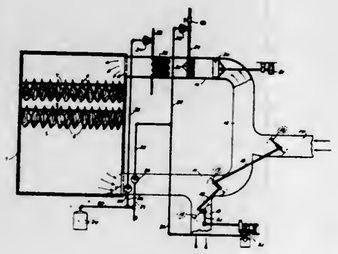
1,339,373. PROCESS FOR CURING TOBACCO. ALFRED CHARLES BUENSOD, New York, N. Y., assignor to The Tobacco Treating Co. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 26, 1915. Serial No. 58,043. 4 Claims. (Cl. 131—6.)



1. A method of curing green tobacco which consists in confining the leaves in a substantially airtight chamber,

then increasing the moisture content of the air by evaporation from the tobacco until the rate of evaporation from the tobacco is very slight, then opening an entrance into the chamber and therethrough admitting into the chamber air of lower moisture content than that in the chamber, and simultaneously opening an exit from the chamber, and then regulating the relative humidity of the air in the chamber by the condition of the air at the exit after it has passed through the tobacco.

1,339,374. METHOD OF CURING TOBACCO. ALFRED CHARLES BUENSOD, New York, N. Y., assignor to The Tobacco Treating Co. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 26, 1915. Serial No. 58,045. 3 Claims. (Cl. 131—6.)



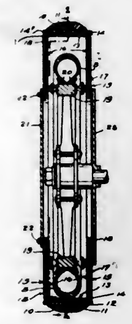
1. A method of curing green tobacco which consists in confining the tobacco in a substantially air-tight chamber, forcing a current of air through the tobacco in the chamber, heating the air before it is forced through the tobacco, then increasing the moisture content of the air by evaporation from the tobacco until the rate of evaporation from the tobacco is very slight, leading the air after it has passed through the tobacco from the chamber and returning it to the same, and regulating the temperature and relative humidity of the air in the chamber by the condition of the air after it has passed through the tobacco.

1,339,375. METHOD OF CURING AND TREATING TOBACCO. ALFRED CHARLES BUENSOD, New York, N. Y. Filed Mar. 14, 1917. Serial No. 154,842. 5 Claims. (Cl. 131—6.)

1. A method of curing and treating tobacco which consists in subjecting it to air currents having a temperature of from 70° to 90° F. and a relative humidity of from 78% to 82% for a sufficient length of time to consume the surplus food contained in the leaf and cause the death of the cells, then gradually raising the temperature of the air currents to a degree not higher than the highest degree that the type of tobacco being treated will stand without damage, and gradually lowering the relative humidity of the air currents to about 65%, until all parts of the tobacco are fully cured, and then gradually reducing the temperature of the air currents to about 70° to 85° F. and gradually increasing the relative humidity thereof to from 80% to 85%, for raising the moisture content to the necessary point.

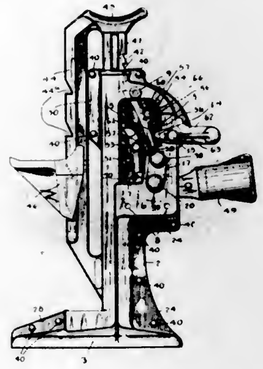
1,339,376. WHEEL. SANDFORD C. ROSE, Port Angeles, Wash. Filed Jan. 20, 1919. Serial No. 272,015. 5 Claims. (Cl. 21—151.)

1. The combination with a smaller wheel having a pneumatic tire thereon, of a larger tread wheel arranged to inclose the said smaller wheel and run freely thereon, frame plates extending inwardly from both sides of the rim of said tread wheel, bearing plates secured to the inner sides of said frame plates, cushion members interposed between said bearing plates and said frame plates, means on both sides of said tread wheel for closing the central openings in said frame plates and ball bearings



projecting outwardly from the rim of said smaller wheel to engage said bearing plates and guide said tread wheel for eccentric movement with respect to said smaller wheel.

1,339,377. RATCHET-JACK. JOHN C. KOPF, Bellevue, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 4, 1919. Serial No. 335,609. 5 Claims. (Cl. 254—111.)

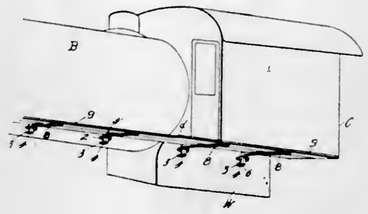


1. A ratchet-jack mechanism of the type comprising a lifting pawl, a holding pawl, a single band spring connecting said pawls acting alternately intension and compression in lowering, and reversing means adapted to bear upon the approximate middle of the back of the spring for raising, characterized by said spring being an open bow with the intermediate portion of its back rearwardly disposed for coöperation with the reversing means.

1,339,378. OBJECTS HAVING GREAT STRENGTH AND GREAT RESISTANCE AGAINST THE ACTION OF ACIDS. BENNO STRAUSS, Bredeney, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 25, 1913, Serial No. 775,764. Renewed Aug. 6, 1919. Serial No. 315,760½. 1 Claim. (Cl. 75—1.)

Articles having great strength and great resistance against the action of acids, said articles being made from a steel alloy containing from 15% to 40% chromium, 20% to 4% nickel, not over 1% carbon and not less than 55% iron.

1,339,379. SUPPORT FOR RUNNING-BOARDS FOR VEHICLES. CLOICE B. BAKER, St. Louis, Mo., assignor of one-half to William Bawden, St. Louis, Mo. Filed Jan. 12, 1920. Serial No. 350,865. 7 Claims. (Cl. 105—457.)



1. In combination with a vehicle, a series of fixed supports on the side thereof spaced suitable distances apart, brackets leading therefrom and disposed in hinged relation thereto about substantially vertical axes, and a running board secured to said brackets.

1,339,380. BRAKE FOR FIRE-SHUTTERS. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed July 23, 1915, Serial No. 41,532. Patented Aug. 6, 1918, No. 1,275,168. Divided and this application filed June 29, 1918. Serial No. 242,609. 2 Claims. (Cl. 74—45.)



2. A brake mechanism including, in combination, a brake rim, two opposingly arranged shoes to engage said rim, each of said shoes being pivoted at one end of a pivot within said rim, a centrifugally actuated arm carrying a cam pivoted on the pivot of each of said shoes, the cam on the pivot of one shoe acting on the free end of the other shoe to aid centrifugal action thereof on the brake rim, and a spring connecting the pivot of each shoe with the arm carrying the cam actuating it, said spring tending to withdraw said cam from operation when centrifugal action ceases.

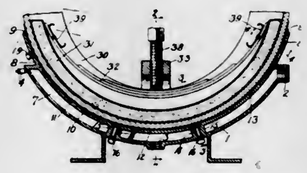
REISSUES.

14,851. CHAIN ATTACHMENT. ELBERT J. BROOKS, Sparta, Wis. Original No. 1,256,105, dated Feb. 12, 1918, Serial No. 127,175, filed Oct. 23, 1916. Application for reissue filed June 18, 1919. Serial No. 305,194. 3 Claims. (Cl. 24—231.)



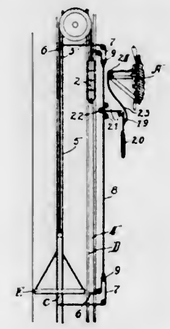
2. The combination with end-links of a chain, a connecting member for said links attached at one end to one of the links, having intermediate its ends an open ended inwardly extending notch in which the other link detachably seats and having at its opposite end a rearward longitudinal fixed extension located along side of and to engage the other link when seated in the notch, the inner end of the notch, said point of attachment with the first link and the extension being disposed so that tension upon the chain will tend to hold the extension in engagement with said other link.

14,852. TIRE-RETREADING APPARATUS. ROSCOE A. BROOKS, Chicago, Ill., assignor to Western Tire & Rubber Works, Chicago, Ill., a Copartnership. Original No. 1,327,307, dated Jan. 6, 1920, Serial No. 257,956, filed Oct. 14, 1918. Application for reissue filed Mar. 11, 1920. Serial No. 365,041. 12 Claims. (Cl. 18—18.)



10. In an apparatus of the character described, a mold, and a removable matrix seated in the mold, said matrix being in sections arranged end to end, and at least one of said sections being movable relatively to the remainder of the matrix in the lengthwise direction.

14,853. AUTOMATIC STOP FOR ELEVATORS. PETER L. MANLET, St. Paul, Minn. Original No. 1,158,255, dated Oct. 26, 1915, Serial No. 651,628, filed Sept. 27, 1911. Application for reissue filed Jan. 14, 1920. Serial No. 351,510. 4 Claims. (Cl. 187—35.)

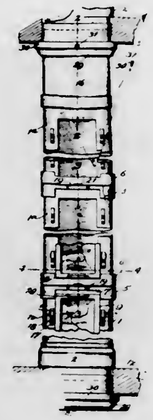


2. In a device of the class set forth, an elevator car operable in a predetermined path of travel, a frangible stopping means positioned in the path of said car, a motor adapted to operate said car, a switch adapted to control said motor, means for connecting said stopping means and switch to operate the latter when said stopping means is released by said car moving beyond its normal travel, and an electric brake connected with said switch and adapted to be automatically operated by the opening of said switch.

14,854. MAIL-CHUTE. FREDERICK J. WUESTHOFF, San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Original No. 1,124,095, dated Jan. 5, 1915, Serial No. 804,192, filed Dec. 2, 1913. Application for reissue filed Aug. 1, 1916. Serial No. 112,532. 10 Claims. (Cl. 193—21.)

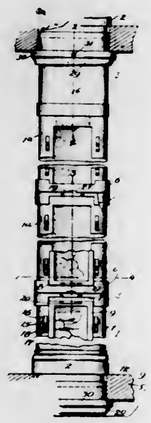
1. A mail chute comprising a chute body provided with a door opening, a door frame having inwardly-open side channels the inner walls of which have their inner edges bent laterally obliquely to fit into said opening, the outer channel walls having their inner edges bent toward said

opening, and a pane set in said frame and having its outer surface in engagement with the inner edges of



said outer channel walls, and its side edges beveled and fitted against the oblique inner edges of the inner channel walls.

14,855. MAIL-CHUTE. FREDERICK J. WUESTHOFF, San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Original No. 1,124,095, dated Jan. 5, 1915, Serial No. 804,198, filed Dec. 2, 1913. Application for reissue filed Aug. 1, 1916. Serial No. 112,533. 10 Claims. (Cl. 193—31.)



1. A mail chute comprising consecutive sections, each preceding section having its upper end flaring, and each succeeding section having its lower end tapering to fit within the flaring upper end of the preceding section, a collar encircling the upper end of each preceding section at the flaring portion, each collar having a lug at the front of the chute, the sections having openings in their fronts, and door frames fitting outside of the openings, each door frame having a lug at each end, and a fastening means for the adjacent frames at the junction of the sections, each of the said fastening means comprising a plate having recesses in its inner face for receiving the lug of the collar and the lugs at the lower end of the next upper door and at the upper end of the next lower door, the lug of the collar having an upstanding catch on its upper face, the fastening means comprising a barrel or bolt mounted to rotate in the casing and having a lug for engaging behind the catch and adapted to be operated by a key.

DESIGNS.

55,013. BADGE, EMBLEM, OR SIMILAR ARTICLE. HENRY E. ALSTERLUND, Roslindale, Mass. Filed Mar. 10, 1919. Serial No. 281,872. Term of patent 14 years.



The ornamental design for a badge, emblem, or similar article, as shown.

55,014. BADGE, EMBLEM, OR SIMILAR ARTICLE. HENRY E. ALSTERLUND, Roslindale, Mass. Filed Mar. 10, 1919. Serial No. 281,873. Term of patent 14 years.



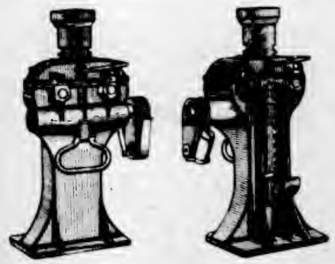
The ornamental design for a badge, emblem, or similar article, as shown.

55,015. LIFTING-JACK. EDWIN E. ARNOLD, Pittsburgh, Pa., assignor to Iron City Products Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1919. Serial No. 337,264. Term of patent 14 years.



The ornamental design for a lifting jack, substantially as shown.

55,016. LIFTING-JACK. EDWIN E. ARNOLD, Pittsburgh, Pa., assignor to Iron City Products Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1919. Serial No. 337,267. Term of patent 14 years.



The ornamental design for a lifting jack, substantially as shown.

55,017. LIQUID-PROJECTING DEVICE. MARK W. BAILEY, New York, N. Y. Filed Oct. 13, 1919. Serial No. 330,499. Term of patent 7 years.



The ornamental design for a liquid projecting device, as shown.

55,018. BUTTON. JOHN R. BELLIS, Hackettstown, N. J. Filed June 28, 1919. Serial No. 307,481. Term of patent 14 years.



The new and ornamental design for a button as shown.

55,019. CLOCK-CASING. HAROLD W. BENNET, Evanston, Ill. Filed Sept. 28, 1915. Serial No. 53,132. Term of patent 7 years.



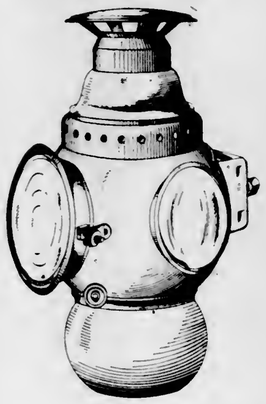
The ornamental design for a clock casing, as shown.

55,020. DOLL. JULIUS D. BENVENUTI, San Francisco, Calif., assignor to Mrs. May Moran, San Francisco, Calif. Filed Aug. 19, 1919. Serial No. 318,607. Term of patent 3½ years.



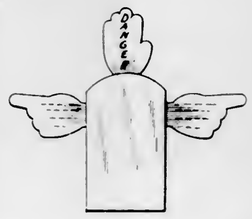
The ornamental design for a doll, as shown.

55,021. AUTO TAIL-LAMP. WILLIAM BERK, New York, N. Y., assignor to American Auto Lamp Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 16, 1919. Serial No. 345,398. Term of patent 14 years.



An ornamental design for an auto tail lamp, as shown.

55,022. TRAIL-MARKER. JAMES B. BLAIR, Decatur, Ill., assignor of one-half to Frank B. Owens, Decatur, Ill. Filed Sept. 15, 1919. Serial No. 324,029. Term of patent 7 years.



The ornamental design for a trail marker, as shown.

55,023. HOUSEMAID'S BOX. THOMAS GUY BLOOD, Birmingham, England. Filed Sept. 27, 1919. Serial No. 326,996. Term of patent 14 years.



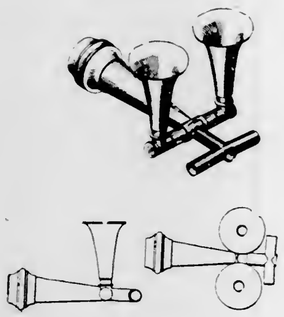
The ornamental design for a housemaid's box, as shown.

55,024. PERFUMERY-BOTTLE. RAMON CAMPDERÁ and FEDERICO AYALA, Mexico, Mexico. Filed Aug. 18, 1919. Serial No. 318,419. Term of patent 14 years.



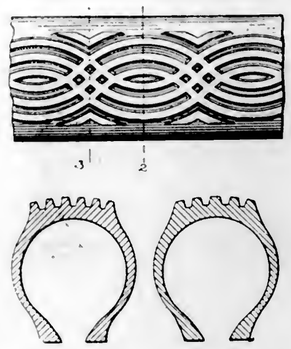
The ornamental design for a perfumery bottle, as shown.

55,025. SOUND-CONDUCTING DEVICE FOR TALKING-MACHINES. FRANCESCO CIRELLI, Philadelphia, Pa. Filed Oct. 29, 1919. Serial No. 334,363. Term of patent 7 years.



The ornamental design for a sound conducting device for talking-machines, as shown.

55,026. TIRE-TREAD. WALTER H. CLARKE, Elyria, Ohio. Filed Oct. 18, 1919. Serial No. 331,719. Term of patent 7 years.



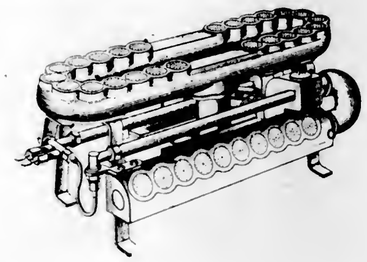
The design for a tire tread substantially as shown.

55,027. MEDAL. ALBERT DE LAUTREPPE and HENRY MOLLET MESRINES, New York, N. Y. Filed June 30, 1919. Serial No. 307,864. Term of patent 3½ years.



The ornamental design for a medal, as shown.

55,028. OIL-BURNER. ROBERT L. DORAN, Chicago, Ill. Filed Sept. 15, 1919. Serial No. 324,036. Term of patent 3½ years.



The ornamental design for an oil burner as shown.

55,029. WATCH-BOW. ALBERT M. DUEBER, Canton, Ohio, assignor to The Dueber Watch Case Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Oct. 20, 1919. Serial No. 332,118. Term of patent 14 years.



The ornamental design for a watch bow, substantially as shown.

55,030. LACE. PAUL EBERHART, Palisade, N. J., assignor to Patchogue Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1919. Serial No. 323,988. Term of patent 3½ years.



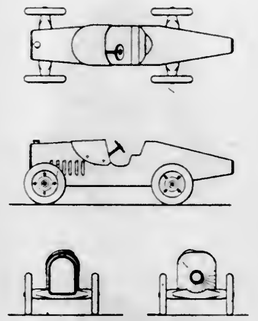
The ornamental design for lace as herein shown and described.

55,031. SPOON. HAROLD G. ESSAYAN, Brookline, Mass. Filed Sept. 22, 1919. Serial No. 325,559. Term of patent 7 years.



The ornamental design for a spoon as shown.

55,032. TOY AUTOMOBILE. HENRY W. A. FUHRMANN, Alhambra, Calif. Filed Nov. 7, 1919. Serial No. 336,478. Term of patent 3½ years.



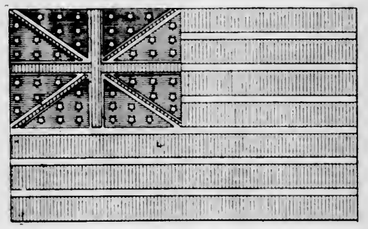
The ornamental design for a toy automobile as shown.

55,033. CABINET FOR A TALKING-MACHINE. MOSES F. FYBUSH, Los Angeles, Calif. Filed Aug. 8, 1919. Serial No. 316,268. Term of patent 14 years.



The ornamental design for a cabinet for a talking machine, as shown.

55,034. FLAG. JAMES CLERK MAXWELL GARNETT, Manchester, England. Filed Nov. 8, 1919. Serial No. 336,746. Term of patent 7 years.



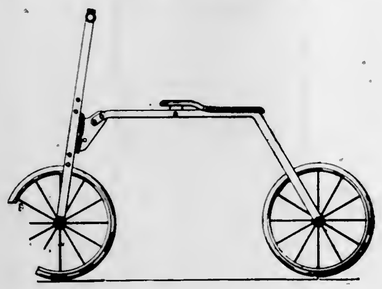
The ornamental design for a flag, as shown.

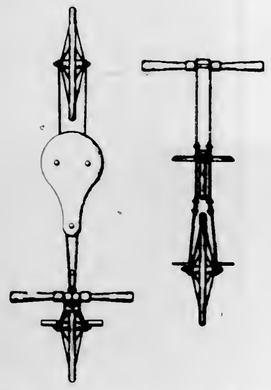
55,035. WATCH-STAND. LEON M. GIROUX, New York, N. Y. Filed Nov. 19, 1919. Serial No. 339,198. Term of patent 14 years.



The new and ornamental design for a watch stand, as shown.

55,036. TOY, KNOWN AS A GO-BEEL. ARTHUR L. GREENFIELD, Newark, N. J. Filed Oct. 28, 1919. Serial No. 334,088. Term of patent 7 years.





The ornamental design for a go-beel as shown.

55,037. BUTTON. CHARLES HALLAUER, Rochester, N. Y., assignor to Art In Buttons, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 6, 1919. Serial No. 315,763. Term of patent 3½ years.



The ornamental design for a button substantially as shown and described.

55,038. RETAINER-LEVER FOR A SPRINKLER-HEAD OR SIMILAR ARTICLE. JOHN R. HAMILTON, Yonkers, N. Y., assignor to Automatic Sprinkler Company of America, New York, N. Y., a Corporation of New York. Filed July 22, 1919. Serial No. 312,582. Term of patent 14 years.



The ornamental design for a retainer lever for a sprinkler head or similar article, substantially as shown.

55,039. SERVICE-PIN. WILLIAM A. HARTLINE, Penns Grove, N. J. Filed July 31, 1918. Serial No. 247,679. Term of patent 14 years.



The ornamental design for a service pin as shown.

55,040. DOLL. FLORENCE B. HATCH, St. Louis, Mo. Filed Nov. 24, 1919. Serial No. 340,419. Term of patent 7 years.



The ornamental design for a doll, as shown.

55,041. EMBLEM, BADGE, PIN, FOB, RING, OR LIKE ARTICLE. ROBERT L. HATFIELD, Newark, N. J. Filed June 14, 1918. Serial No. 240,082. Term of patent 14 years.



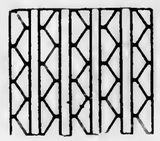
The ornamental design for an emblem, badge, pin, fob, ring, or like article, as shown.

55,042. PIN OR SIMILAR ARTICLE. THOMAS HEATH, Attleboro, Mass., assignor to The Standard Button Company, Attleboro, Mass. Filed Feb. 13, 1918. Serial No. 216,970. Term of patent 3½ years.



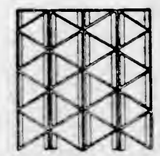
The ornamental design for a pin or similar article as shown.

55,043. RADIATOR. JOHN A. HINGER, Detroit, Mich. Filed Aug. 22, 1919. Serial No. 319,277. Term of patent 14 years.



The ornamental design for a radiator, substantially as shown.

55,044. RADIATOR. JOHN A. HINGER, Detroit, Mich. Filed Aug. 22, 1919. Serial No. 319,278. Term of patent 14 years.



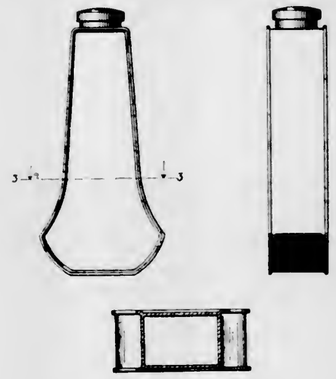
The ornamental design for a radiator, substantially as shown.

55,045. PHONOGRAPHIC-DISK-RECORD CABINET. EMMETT M. HOWARD, Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 18, 1917. Serial No. 143,179. Term of patent 3½ years.



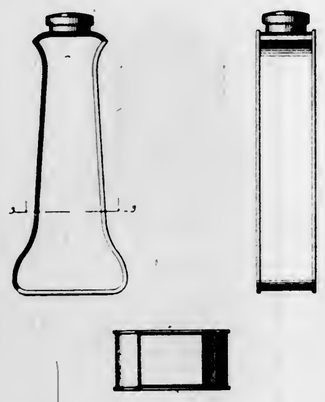
The ornamental design for a phonographic disk record cabinet, as shown.

55,046. POWDER-CONTAINER. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Apr. 26, 1919. Serial No. 293,018. Term of patent 7 years.



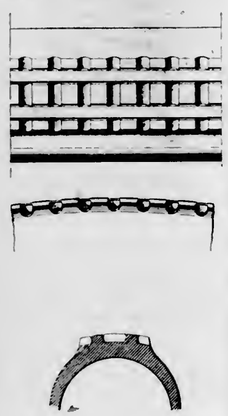
The ornamental design for a powder container, as shown.

55,047. POWDER-CAN OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Apr. 30, 1919. Serial No. 293,851. Term of patent 7 years.



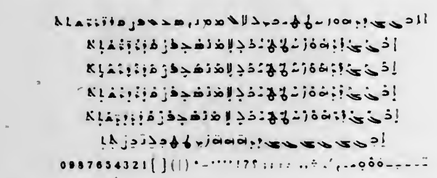
The ornamental design for a powder can or similar receptacle as shown.

55,048. TIRE. IRA V. HUMPHREY, Highland Park, Pa. Filed Nov. 24, 1919. Serial No. 340,424. Term of patent 3½ years.



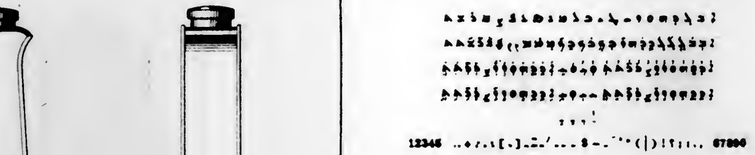
The ornamental design for a tire, substantially as shown.

55,049. FONT OF SYRIAC TYPE. SAMUEL A. JACOBS, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,153. Term of patent 14 years.



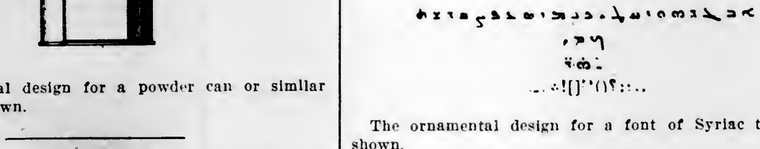
The ornamental design for a font of Syriac type as shown.

55,050. FONT OF SYRIAC TYPE. SAMUEL A. JACOBS, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,154. Term of patent 14 years.



The ornamental design for a font of Syriac type as shown.

55,051. FONT OF SYRIAC TYPE. SAMUEL A. JACOBS, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,155. Term of patent 14 years.



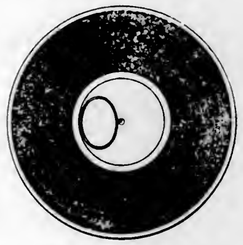
The ornamental design for a font of Syriac type as shown.

55,052. HAIRPIN. ANTONI JANIECZ, Curtis Bay, Md. Filed Feb. 10, 1920. Serial No. 357,682. Term of patent 7 years.



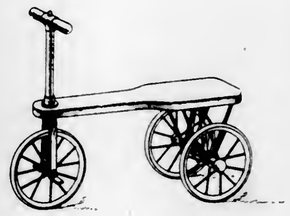
The ornamental design for a hairpin, as shown.

55,053. PHONOGRAPH-RECORD. MANOOG KAZANJIAN, Boston, Mass. Filed Sept. 8, 1919. Serial No. 322,561. Term of patent 14 years.



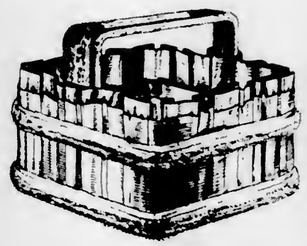
The ornamental design for a phonograph record, as shown.

55,054. CHILD'S VEHICLE. HOWARD R. KEENEY, Melrose, Mass., assignor to Heywood Brothers & Wakefield Company, Wakefield, Mass., a Corporation of New Jersey. Filed Oct. 8, 1919. Serial No. 329,366. Term of patent 14 years.



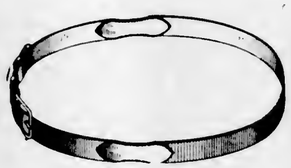
The ornamental design for a child's vehicle, as shown.

55,055. NOVELTY-BASKET. THEODORE KIRCHEN, Chicago, Ill. Filed Aug. 27, 1919. Serial No. 320,314. Term of patent 3½ years.



The ornamental design for a novelty basket, as shown.

55,056. BELT. FRANK F. KNOTHE, Ridgewood, N. J. Filed July 2, 1917. Serial No. 178,259. Term of patent 14 years.



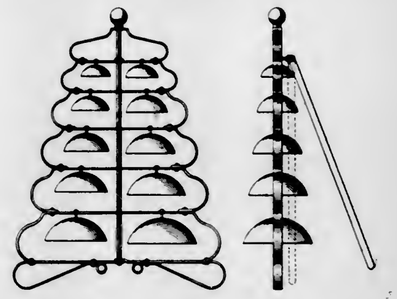
The ornamental design for a belt as herein set forth.

55,057. PNEUMATIC-TIRE TREAD. LOUIS E. KRAFT, Fort Wayne, Ind., assignor to Fort Wayne Tire & Rubber Manufacturing Company, Fort Wayne, Ind., a Corporation of Delaware. Filed Nov. 26, 1919. Serial No. 340,947. Term of patent 3½ years.



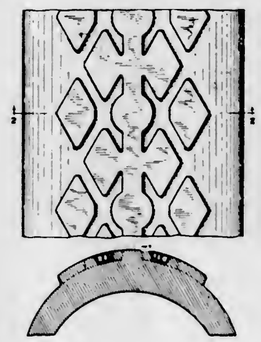
The ornamental design for a pneumatic tire tread as shown.

55,058. MUSICAL INSTRUMENT. ADOLF KREGLING, Stratford, Conn. Filed Jan. 20, 1920. Serial No. 352,865. Term of patent 7 years.



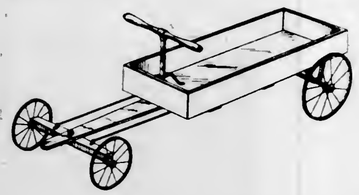
The ornamental design for a musical instrument as shown.

55,059. VEHICLE-TIRE. GEORGE C. LARGE, Mahoningtown, Pa., assignor to Wear-Well Tire Company, Mahoningtown, Pa., a Corporation of Delaware. Filed Dec. 3, 1919. Serial No. 342,270. Term of patent 14 years.



The ornamental design for a vehicle-tire, as shown.

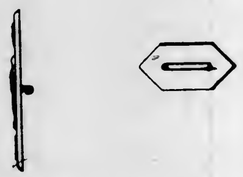
55,060. BOY'S WAGON. RAGNAR LARSON, Chicago, Ill. Filed June 11, 1919. Serial No. 303,488. Term of patent 14 years.



The ornamental design for a boy's wagon, as shown.

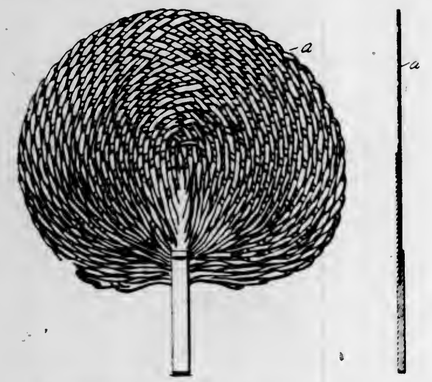
55,061. BUTTON, BROOCH, BADGE, OR SIMILAR ARTICLE. NANCY B. LE DUC, Santa Monica, Calif. Filed July 22, 1918. Serial No. 246,191. Term of patent 3½ years.





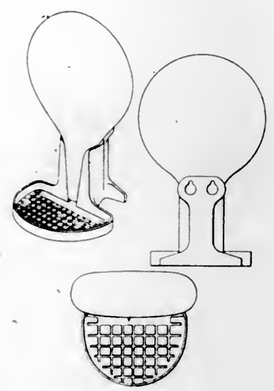
The ornamental design for a button, brooch, badge, or similar article, as shown.

55,062. HAND OR TOILET FAN. ISAAC H. LESEM, St. Louis, Mo. Filed Dec. 31, 1919. Serial No. 348,684. Term of patent 14 years.



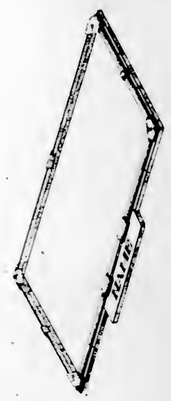
The ornamental design for a hand or toilet fan substantially as shown and described.

55,063. SANITARY FOUNTAIN. THOMAS LLOYD, Poston, Mass. Filed Sept. 27, 1919. Serial No. 326,997. Term of patent 14 years.



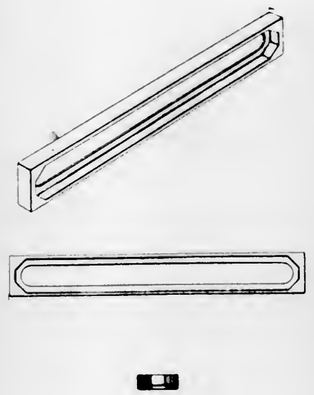
The ornamental design for a sanitary fountain, as shown.

55,064. CEMETERY-LOT COPING. JOHN E. LUTZ, Blair, Nebr. Filed Aug. 21, 1919. Serial No. 319,029. Term of patent 14 years.



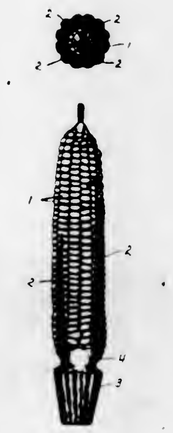
The ornamental design for a cemetery lot coping, as herein shown.

55,065. HOUSING FOR A SPARK-INTENSIFIER. MORRIS H. J. MASONOFF, Kansas City, Mo. Filed Sept. 15, 1919. Serial No. 324,051. Term of patent 3½ years.



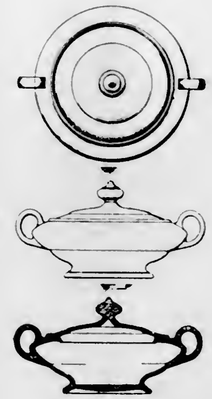
The ornamental design for a housing for a spark intensifier, as shown.

55,066. CANDLE. CHARLES J. MESSER, Syracuse, N. Y. Filed Apr. 5, 1918. Serial No. 226,958. Term of patent 14 years.



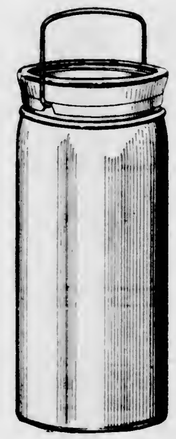
The ornamental design for a candle as shown and described.

55,067. HOLLOW CHINA TABLEWARE ARTICLE. JOHN B. MCDONALD, East Liverpool, Ohio. Filed July 11, 1919. Serial No. 310,285. Term of patent 7 years.



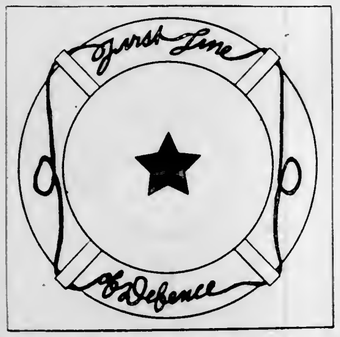
The ornamental design for a hollow china tableware article, as shown.

55,068. MILK-JAR. GEORGE F. MCDONNELL, Charleston, and JOHN JOSEPH DANDOY, Dunbar, W. Va. Filed Jan. 25, 1919. Serial No. 273,178. Term of patent 14 years.



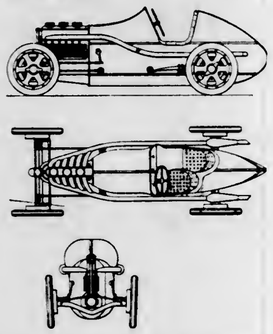
The ornamental design for a milk jar, substantially as shown.

55,069. NAVAL SERVICE-FLAG. JOHN J. MCKEE, East Orange, N. J. Filed Aug. 31, 1918. Serial No. 252,265. Term of patent 7 years.



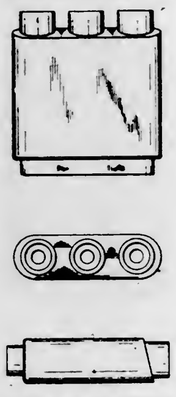
The ornamental design for a naval service flag, as shown.

55,070. AUTOMOBILE. HARRY A. MILLER, Los Angeles, Calif. Filed Sept. 22, 1919. Serial No. 325,562. Term of patent 7 years.



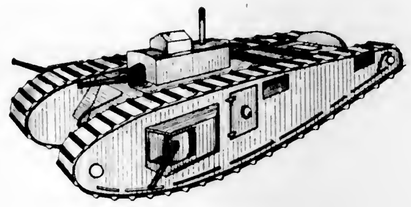
The ornamental design for an automobile, as shown.

55,071. INSULATOR-PORCELAIN FOR ELECTRIC OVENS. FREDERICK W. MOFFAT, Weston, Ontario, Canada, assignor to The Moffat Stove Company Limited, town of Weston, Canada. Filed July 10, 1919. Serial No. 309,990. Term of patent 3½ years.



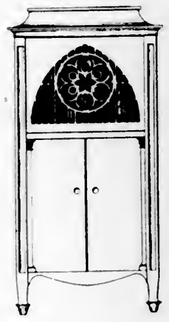
The ornamental design for an insulator porcelain for electric ovens, as shown.

55,072. RADIATOR-CAP ORNAMENT. HERBERT H. MOOR, Davenport, Iowa. Filed Aug. 27, 1919. Serial No. 320,312. Term of patent 3½ years.



The ornamental design for a radiator cap ornament, as shown.

55,073. PHONOGRAPH-CABINET. RALPH W. MORRISON, Omaha, Nebr. Filed Dec. 26, 1919. Serial No. 347,616. Term of patent 3½ years.



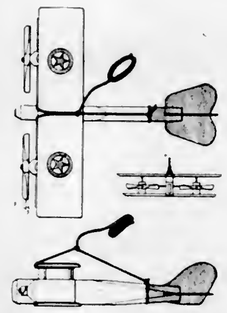
The ornamental design for a phonograph cabinet, as shown.

55,074. DOLL-HEAD. ARNOLD NEHLE, Weehawken, N. J. Filed Nov. 8, 1919. Serial No. 336,757. Term of patent 3½ years.



The ornamental design for a doll head as shown.

55,075. TOY AEROPLANE. LORENA B. NICHOLAS, Los Angeles, and FRANK H. HEINE, Santa Ana, Calif. Filed Nov. 22, 1919. Serial No. 339,951. Term of patent 7 years.



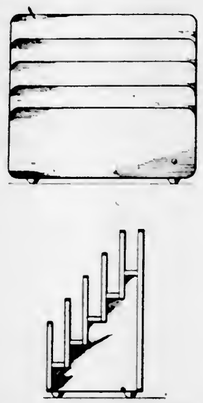
The ornamental design for a toy aeroplane as shown.

55,076. SAMMY SANDMAN DOLL. FRANCES OBRECHT, Flint, Mich. Filed Nov. 8, 1919. Serial No. 336,766. Term of patent 7 years.



The ornamental design for a "Sammy Sandman doll," as shown.

55,077. PAD-RACK. SAMUEL D. PAGE, Des Moines, Iowa. Filed Feb. 12, 1918. Serial No. 216,823. Term of patent 14 years.



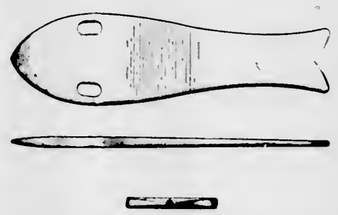
The ornamental design for a pad rack, as shown.

55,078. TOY ANIMAL. KARL PASECKY, Washington, D. C. Filed Mar. 21, 1917. Serial No. 156,469. Term of patent 3½ years.



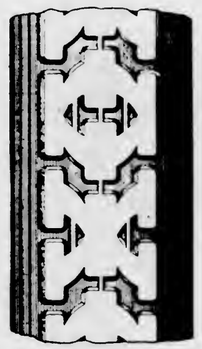
The ornamental design for a toy animal, as shown.

55,079. SURF-BOARD. DAVID L. RANLETT, New York, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Nov. 28, 1919. Serial No. 341,329. Term of patent 7 years.



The ornamental design for a surf board, as shown.

55,080. TIRE. ELMER ALBERT REID, Somerset, N. J. Filed Sept. 30, 1919. Serial No. 327,599. Term of patent 7 years.



The ornamental design for a tire, as shown.

55,081. BELT-CLASP. WILLIAM E. ROUNSEVILLE, Attleboro, Mass., assignor to C. A. Marsh and Company, Attleboro, Mass., a Firm. Filed Feb. 24, 1920. Serial No. 360,990. Term of patent 7 years.

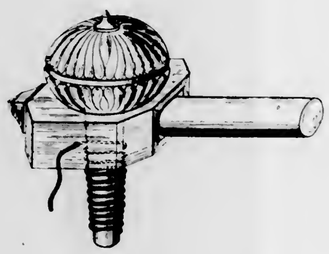


The ornamental design for a belt clasp, as shown.

55,082. BELT-CLASP. WILLIAM E. ROUNSEVILLE, Attleboro, Mass., assignor to C. A. Marsh and Company, Attleboro, Mass., a Firm. Filed Feb. 24, 1920. Serial No. 360,991. Term of patent 7 years.

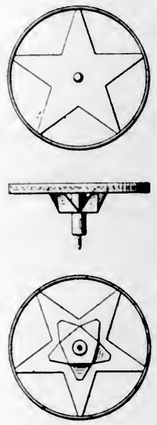
The ornamental design for a belt clasp, as shown.

55,083. TOY. JOSEPH TABARA, Woodhaven, N. Y. Filed Oct. 15, 1919. Serial No. 330,919. Term of patent 3½ years.



The ornamental design for a toy as shown.

55,084. TOY TOP. AUGUST E. SANDSTROM, New York, N. Y. Filed June 30, 1919. Serial No. 307,872. Term of patent 14 years.



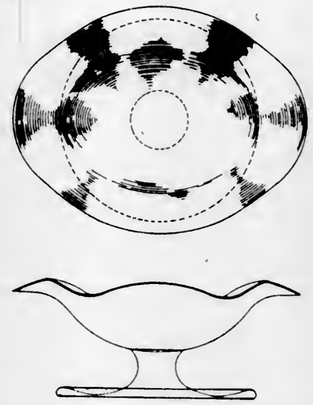
The ornamental design for a toy top, as shown.

55,085. SUNDAE-CUP. ALBERT F. SAUNDERS, Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Filed Feb. 12, 1920. Serial No. 358,154. Term of patent 3½ years.



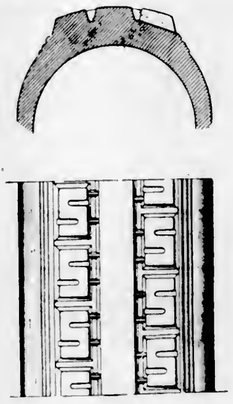
The ornamental design for a sundae cup, substantially as shown.

55,086. SUNDAE-HOLDER. ALBERT F. SAUNDERS, Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Filed Feb. 14, 1920. Serial No. 358,667. Term of patent 3½ years.



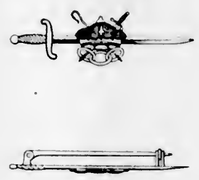
The ornamental design for a sundae holder, substantially as shown.

55,087. TIRE. ADOLF B. SCHLEICHER, Pasadena, Calif. Filed Jan. 28, 1920. Serial No. 354,735. Term of patent 7 years.



The ornamental design for a tire as shown.

55,088. EMBLEM, BADGE, OR SIMILAR ARTICLE. ALBERT G. SEEHOLZER, Detroit, Mich. Filed July 28, 1919. Serial No. 313,943. Term of patent 14 years.



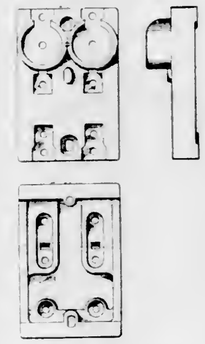
The ornamental design for an emblem, badge, or similar article as shown.

55,089. MEMORIAL TABLET. CHARLES H. SEDELL, CHRISTOPHER C. WHELAN, and MICHAEL BELFRY, Chicago, Ill., assignors to Charles H. Sedell and Christopher C. Whelan, as Copartners. Filed Oct. 6, 1919. Serial No. 328,922. Term of patent 3½ years.



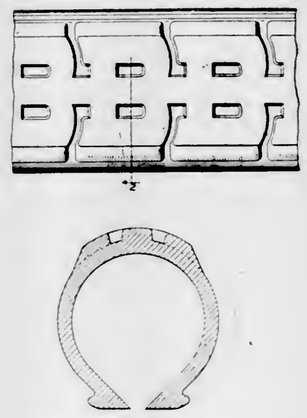
The ornamental design for a memorial tablet as shown.

55,090. PLURAL-POLE ENTRANCE-SWITCH BASE. IRA R. SELTZER, Waterbury, Conn., assignor to The Gordon Electric Mfg. Co., Waterville, Conn., a Corporation. Filed June 12, 1919. Serial No. 303,793. Term of patent 14 years.



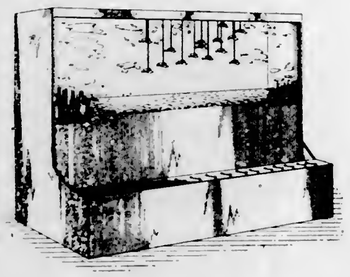
The ornamental design for a plural pole entrance switch base, as shown.

55,091. ELASTIC VEHICLE-TIRE. FLOYD E. SHANNON, Akron, Ohio. Filed Dec. 12, 1919. Serial No. 344,492. Term of patent 14 years.



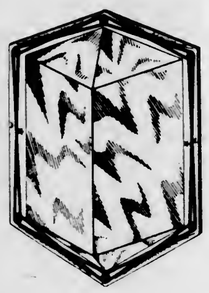
The ornamental design for an elastic vehicle tire as shown.

55,092. GAME APPARATUS. JAMES SHARPE, Detroit, Mich. Filed June 4, 1919. Serial No. 301,855. Term of patent 7 years.



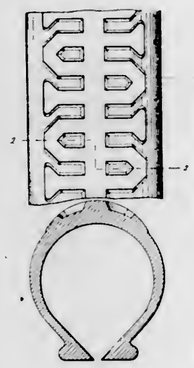
The ornamental design for a game apparatus as shown.

55,093. LAMP-BOX. STANLEY SMIGIELSKI, Detroit, Mich. Filed Oct. 11, 1919. Serial No. 330,158. Term of patent 7 years.



The ornamental design for a lamp box, as shown.

55,094. VEHICLE-TIRE. HARRY J. SMITH, Binghamton, N. Y. Filed Dec. 3, 1919. Serial No. 342,269. Term of patent 14 years.



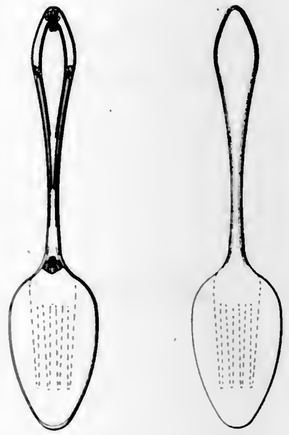
The ornamental design for a vehicle tire, as shown.

55,095. LACE FOR TRIMMING PURPOSES. WILLIAM H. SMITH, Bridgeport, Conn., assignor to The American Fabrics Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 7, 1920. Serial No. 350,027. Term of patent 14 years.



The ornamental design for lace for trimming purposes, as shown.

55,096. HANDLE FOR SPOONS, FORKS, OR SIMILAR ARTICLES. AXEL H. STAF, Providence, R. I., assignor to Gorham Manufacturing Company, Providence, R. I. Filed Oct. 27, 1919. Serial No. 333,856. Term of patent 14 years.



The ornamental design for a handle for spoons, forks or similar articles, as shown.

55,097. PHONOGRAPH-NEEDLE. RUDOLPH STEINERT, New Haven, Conn. Filed Oct. 25, 1919. Serial No. 333,400. Term of patent 14 years.



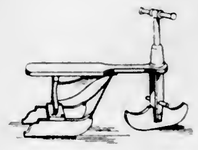
The ornamental design for a phonograph needle as shown.

55,098. DISPLAY-STAND. JOHN P. STETSON, New York, N. Y., assignor to H. D. Beach Company, Coshocton, Ohio, a Corporation of New Jersey. Filed Oct. 11, 1919. Serial No. 330,156. Term of patent 3½ years.



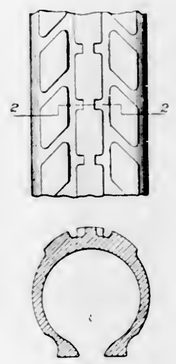
The ornamental design for a display stand as shown.

55,099. CHILD'S SLED. MAE F. SULLIVAN, Duluth, Minn. Filed Nov. 28, 1919. Serial No. 341,334. Term of patent 7 years.



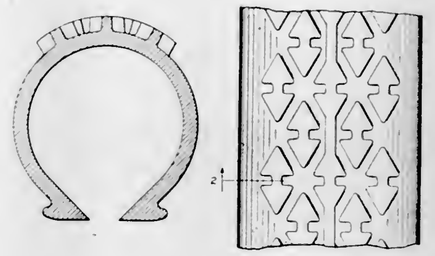
The ornamental design for a child's sled, as shown.

55,100. TIRE. JOHN TENNEY, Jr., Plainfield, N. J. Filed June 28, 1919. Serial No. 307,488. Term of patent 3½ years.



The ornamental design for a tire, as shown.

55,101. ELASTIC VEHICLE-TIRE. ELNO H. TRUMP, Barberton, Ohio. Filed Oct. 29, 1919. Serial No. 334,364. Term of patent 3½ years.



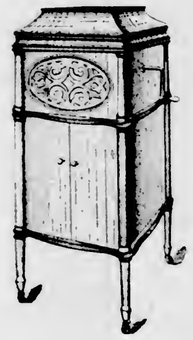
The ornamental design for an elastic vehicle tire as shown.

55,102. FLYING TOY. WILLIAM H. VAN SHRUM, Columbus, Ohio. Filed Sept. 15, 1919. Serial No. 324,031. Term of patent 3½ years.



The ornamental design for a flying toy as shown.

55,103. TALKING-MACHINE CABINET. DAVID C. WILLIAMS, Arlington, Mass. Filed Jan. 26, 1920. Serial No. 354,267. Term of patent 14 years.



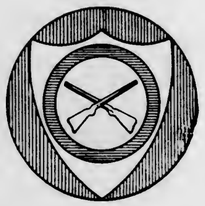
The ornamental design for a talking-machine cabinet as shown.

55,104. GOGGLES. FREDERICK WILLSON, Reading, Pa., assignor to T. A. Willson & Co., Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1919. Serial No. 336,483. Term of patent 14 years.



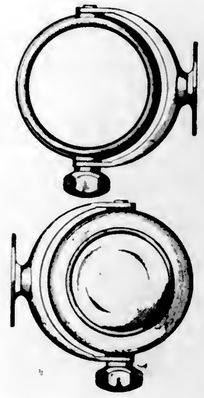
The ornamental design for a goggles, as shown.

55,105. EMBLEM, BADGE, PIN, ORNAMENT, OR SIMILAR ARTICLE. FRANK L. WILMARTH, Central Falls, R. I. Filed Nov. 16, 1918. Serial No. 262,882. Term of patent 14 years.



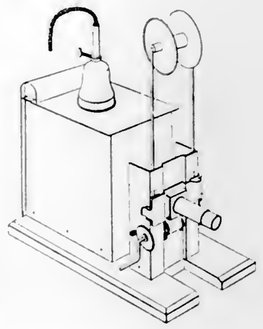
The ornamental design for an emblem, badge, pin, ornament, or similar article, as shown.

55,106. SEARCHLIGHT. ANDREW C. WOOD, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Sept. 23, 1919. Serial No. 325,786. Term of patent 3½ years.



The ornamental design for a searchlight as shown.

55,107. TOY MOTION-PICTURE MACHINE. ISIDORE MARKS, Boston, Mass., assignor to Keystone Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1919. Serial No. 331,483. Term of patent 7 years.



The ornamental design for a toy motion picture machine substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 4, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 101,650. (CLASS 12. CONSTRUCTION MATERIALS.) HEADLEY GOOD ROADS COMPANY, Philadelphia, Pa. Filed Feb. 24, 1917.

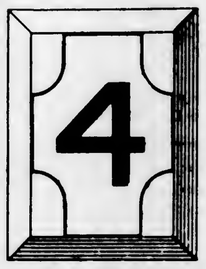


Consists of a yellow disk applied to the heads of a barrel, in contrast with a blue cylindrical band applied to the body of the barrel, and the letters "H. G. R."

Particular description of goods.—Road-Oil Used as a Binder.

Claims use since February, 1914.

Ser. No. 103,581. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTELLA BALDWIN, Huntington, N. Y. Filed May 7, 1917.



Particular description of goods.—Liniment Used in the Treatment of Sprains, Bruises, Glandular Swellings, and Similar Affections.

Claims use since on or about Sept. 1, 1915.

Ser. No. 110,799. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BAYER COMPANY, INC., New York, N. Y. Filed May 10, 1918.

FENASPIRIN

Particular description of goods.—An Analgesic and Antipyretic.

Claims use since March, 1918.

Ser. No. 110,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BAYER COMPANY, INC., New York, N. Y. Filed May 10, 1918.

FENASPIRINA

Particular description of goods.—An Analgesic and Antipyretic.

Claims use since March, 1918.

Ser. No. 113,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE J. YNTEMA, Scranton, Pa. Filed Sept. 12, 1918.

YOU-ES BIRCH

No claim is made for the word "Birch" as shown on the drawing.

Particular description of goods.—Scalp Remedies, a Liquid Preparation Used in Treatment of the Hair.

Claims use since May 1, 1918.

Ser. No. 113,685. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAXIMILIAN WEIL, New York, N. Y. Filed Oct. 10, 1918.

PRIVAPHONE

Particular description of goods.—Devices for Transmitting Communication into Transmitter of Telephone Sets.

Claims use since Apr. 1, 1916.

Ser. No. 113,783. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WHITTEMORE BROTHERS CORPORATION, Cambridge, Mass. Filed Oct. 17, 1918.

LIGHTNING

Particular description of goods.—Dye to be Used on Leather and Articles Made Therefrom.
Claims use since May, 1901.

Ser. No. 114,487. (CLASS 46. FOODS, AND INGREDIENTS OF FOODS.) LESLIE ARCHIBALD SCANDRETT, Sydney, New South Wales, Australia. Filed Dec. 4, 1918.

LAS

Particular description of goods.—Rabbit-Meat.
Claims use since Feb. 1, 1918.

Ser. No. 114,873. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AKTIEBOLAGET ARCA REGULATORER, Stockholm, Sweden. Filed Dec. 30, 1918.

ARCA

Particular description of goods.—Regulators and Parts Thereof, the Regulators Being in the Form of Liquid-Pressure-Operated Apparatus Employed for Regulating Steam-Valves, Water-Valves, Pump-Valves, Electric Resistances, and the Like.
Claims use since Dec. 21, 1917.

Ser. No. 114,978. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS ROESSEL & CO., New York, N. Y. Filed Jan. 3, 1919.

Furette

Particular description of goods.—Light-Weight Woven Silk and Cotton Fabrics Napped After Weaving and Used for Millinery Purposes.
Claims use since June, 1918.

Ser. No. 115,303. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED L. WOODILL, Riverside, Calif. Filed Jan. 18, 1919.

CLOISTER BRAND

No exclusive claim is made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Fresh Oranges.
Claims use since Aug. 1, 1916.

Ser. No. 115,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORDON & DILWORTH, INC., New York, N. Y. Filed Jan. 30, 1919.

COTHAM BRAND

The word "Brand" is disclaimed as part of the registered mark.
Particular description of goods.—Preserved Fruits, Jellies, Jams, Marmalade, Mince-Meat, and Sauces Made of Fruits and Vegetables.
Claims use since the year 1888.

Ser. No. 116,043. (CLASS 33. GLASSWARE.) THE SUPER-GLASS CO., Philadelphia, Pa. Filed Feb. 20, 1919.

Safetee Glass

No claim being made to the word "Glass" apart from the mark shown in the drawing.
Particular description of goods.—Sheet-Glass.
Claims use since Feb. 4, 1919.

Ser. No. 116,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAURICE R. BLACKMAN, Washington, D. C. Filed Feb. 24, 1919.

Victoria

Particular description of goods.—Sundaes.
Claims use since Dec. 15, 1918.

Ser. No. 116,185. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. MAURICE AND COMPANY, LIMITED, Willesden, London, England. Filed Feb. 27, 1919.

ENERGEN

Particular description of goods.—Enriched Pastry-Flour.
Claims use since before Nov. 16, 1911.

Ser. No. 116,504. (CLASS 15. OILS AND GREASES.) LESTER C. SCOTT, San Diego, Calif. Filed Mar. 12, 1919.

NOGUM

Consisting of the word "Nogum" printed in capital letters and provided with a broad blue line diagonally below said word.
Particular description of goods.—Lubricating-Oils for Guns, Locks, Bicycles, Typewriters, and other Delicate Machinery.
Claims use since the 1st day of March, 1919.

Ser. No. 116,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y. Filed Mar. 13, 1919.

Rob Roy

Particular description of goods.—Candies and Chocolates.
Claims use since March, 1918.

Ser. No. 116,734. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUSTIN-NICHOLS & COMPANY, INC., New York, N. Y. Filed Mar. 20, 1919.

BLUE DIAMOND

Particular description of goods.—Coffee.
Claims use since Nov. 1, 1912.

Ser. No. 116,771. (CLASS 11. INKS AND INKING MATERIALS.) GALVESTON TYPEWRITER EXCHANGE, INC., Galveston, Tex. Filed Mar. 21, 1919.

WAXED

No claim being made to the word "Waxed" except in the particular form displayed.
Particular description of goods.—Typewriter-Ribbons and Carbon-Paper.
Claims use since Nov. 1, 1918.

Ser. No. 117,106. (CLASS 12. CONSTRUCTION MATERIALS.) CARPENTER-MORTON COMPANY, Boston, Mass. Filed Apr. 2, 1919.

PURITAN

Particular description of goods.—Prepared Roofing Comprising a Sheet of Material Impregnated and Coated with Asphalt.
Claims use since Mar. 21, 1919.

Ser. No. 117,403. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GENERAL RUBBER GOODS COMPANY, Cleveland, Ohio. Filed Apr. 12, 1919.

THE GENERAL RUBBER GOODS CO
GOLIATH
CLEVELAND OHIO

No claim is made to the words "The General Rubber Goods Co." and "Cleveland, Ohio" apart from the mark shown in the drawing.
Particular description of goods.—Manufactured Rubber Merchandise, Consisting of Hose, Belting, and Packing.
Claims use since Jan. 1, 1914.

Ser. No. 117,432. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLANCK & CO., INC., New York, N. Y. Filed Apr. 14, 1919.

BLANCO

The name "Blanco," which is shown in the accompanying drawing.
Particular description of goods.—Laces and Embroideries in the Piece.
Claims use since Aug. 1, 1918.

Ser. No. 118,038. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER D. BUCHANAN, Greenville, Ohio. Filed May 1, 1919.



Particular description of goods.—Candy.
Claims use since July 15, 1916.

Ser. No. 118,791. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NULOMOLINE COMPANY, New York, N. Y. Filed May 22, 1919.

Syrock

Particular description of goods.—Cereal and Sugar Syrups for Table Purposes.
Claims use since the 8th day of May, 1919.

Ser. No. 118,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE S. DILAS & COMPANY, Bay City, Mich. Filed May 26, 1919.



The trade-mark consists of the fanciful picture of a girl set in an oval and holding a box of confectionery in her hands, set in an oblong frame and connected to the bottom of the oval, no claim being made to the words "Our Own" apart from the mark as shown on the drawing.
Particular description of goods.—Bonbons and Chocolates.
Claims use since Apr. 10, 1919.

Ser. No. 118,939. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. SELIGMAN MERCHANDISE CO., New York, N. Y. Filed May 26, 1919.



Particular description of goods.—Hair-Nets and Laces.
Claims use since the 1st day of March, 1919.

Ser. No. 118,992. (CLASS 39. CLOTHING.) THE LITTLE GODDESS DRESS CO., INC., New York, N. Y. Filed May 28, 1919.



No claim is made to the words "A Child's Dress of Quality," "Trade Mark," and "Dress" apart from the mark shown in the drawing.
Particular description of goods.—Children's Dresses.
Claims use since Aug. 9, 1915.

Ser. No. 119,244. (CLASS 37. PAPER AND STATIONERY.) NEW PRODUCTS COMPANY, Pittsburgh, Pa. Filed June 5, 1919.

Tiss

Particular description of goods.—Gummed and Ungummed Paper and Cloth Strips or Tapes in Rolls and Strips, Used as a Substitute for Twine, Labels, and for Wrapping, Mending, and Sealing Purposes, and Strip and Tape Moistening Machines.
Claims use since Mar. 31, 1919.

Ser. No. 119,459. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERMONT MAPLE SYRUP COMPANY, INC., Essex Junction, Vt. Filed June 10, 1919.

VERMONT MAID

The words "Vermont Maid."
Particular description of goods.—Blended Cane and Maple Table-Syrup.
Claims use since Apr. 22, 1919.

Ser. No. 119,729. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STRATES AGORATOS, New York, N. Y. Filed June 18, 1919.

Ulike

The letters of the word "Ulike."
Particular description of goods.—Chocolates.
Claims use since Jan. 1, 1919.

Ser. No. 119,825. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) D. D. D. COMPANY, Chicago, Ill. Filed June 21, 1919.



The picture shown in the trade-mark is not a portrait, but is merely fanciful.
Particular description of goods.—Liquid for the Treatment of Eye Trouble.
Claims use since Sept. 22, 1916.

Ser. No. 119,899. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN KENYON & Co. (SHEFFIELD) LIMITED, Sheffield, England. Filed June 24, 1919.

HK

Particular description of goods.—Milling-Cutters, Twist-Drills, Machine-Knives, Shear-Blades, Paper-Knives; Machine-Saws—Namely, Circular Saws, Vertical Saws, Pit-Saws; Hay-Knives, Chaff-Knives; Edge-Tools—Namely, Files, Handsaws, Chisels, Shears, Axes, Adzes, Plane-Irons, Gouges; Hammers, Hoes, Spades, Shovels, Picks, Spanners, Vises, Screwdrivers, and Pliers.
Claims use since 1720.

Ser. No. 120,172. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSCAR E. MAURER, San Francisco, Calif. Filed July 1, 1919.

TRUMALT SYRUP

No claim is made to exclusive use of the words "True Malt Syrup" apart from the form of mark shown in the drawing.
Particular description of goods.—Food-Syrup for Baking Purposes.
Claims use since Aug. 15, 1918.

Ser. No. 120,343. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOSES EADON & SONS LIMITED, Sheffield, England. Filed July 8, 1919.

VINGO

Particular description of goods.—Twist-Drills, Reamers, Milling-Cutters and Circular Disks for Milling-Cutters, Machine-Knives, Guillotine-Knives, Shear-Blades, Planing-Cutters, Circular Saws and Hacksaws, Cutting-Tools for Use in Lathes and Tool-Holder Bits; Edge-Tools—Namely, Files, Handsaws, and Planing-Tools; Pipe-Taps and Pipe-Dies.
Claims use since August, 1903.

Ser. No. 120,457. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HORLICK'S FOOD COMPANY, Racine, Wis. Filed July 11, 1919.

MALTOZA

Particular description of goods.—Preparations for the Modification of Milk.
Claims use since June 17, 1919.

Ser. No. 120,744. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARKE BROS. STORES, Scranton, Pa. Filed July 21, 1919.



Particular description of goods.—Peanuts in the Shell and Peanut-Butter.
Claims use since Apr. 22, 1919.

Ser. No. 120,778. (CLASS 20. LINOLEUM AND OILED CLOTH.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed July 21, 1919.

Usco

Particular description of goods.—Floor-Covering at Present Made of Rubber Compound.
Claims use since April, 1918.

Ser. No. 120,816. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTRAL STATES ORCHARDS CO., Kansas City, Mo. Filed July 23, 1919.



Particular description of goods.—Apples in Their Natural State.
Claims use since August, 1917.

Ser. No. 120,854. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TEXAS OIL, GAS & MINERAL PRODUCTS COMPANY, Houston, Tex. Filed July 23, 1919.



The applicant hereby disclaims the use of the word "Cleanser" in his application aside from its use and association with the words "Loyal American."

Particular description of goods.—A Powder for Cleansing, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, etc.

Claims use since about Feb. 1, 1919.

Ser. No. 120,862. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JACOB H. WEBER, Brooklyn, N. Y. Filed July 23, 1919.

WEBROLA

Particular description of goods.—Talking-Machines.
Claims use since Nov. 1, 1918.

Ser. No. 120,989. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DE NORDISKE FABRIKER, DE-NO-FA, AKTIESELSKAB, Christiania, Norway. Filed July 28, 1919.

Margarit,

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats, Used as Leather-Dressing Oils and Greases.

Claims use since September, 1912.

Ser. No. 121,311. (CLASS 39. CLOTHING.) MORRIS MENZIN, New York, N. Y. Filed Aug. 6, 1919.

AMENZ SHIRT

The petitioner herein requests registration of the trade-mark "Amenz" only and disclaims the word "Shirt" as a part of the trade-mark to be registered as shown on the drawing heretofore filed.

Particular description of goods.—Men's Dress-Shirts.
Claims use since Sept. 1, 1916.

Ser. No. 121,456. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. & F. W. COMSTOCK, Port Jefferson Station, N. Y. Filed Aug. 9, 1919.

"ALICE"

Particular description of goods.—Cake and Cookies.
Claims use since July, 1917.

Ser. No. 121,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLEVELAND L. WATERS, Seattle, Wash. Filed Aug. 15, 1919.

DeCrisontime

Particular description of goods.—Hair-Restorer.
Claims use since Apr. 17, 1919.

Ser. No. 121,881. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TEXAS OIL, GAS & MINERAL PRODUCTS COMPANY, Houston, Tex. Filed Aug. 21, 1919.



The applicant hereby disclaims the use of the word "Cleanser" in his application aside from its use and association with the words "Royal American."

Particular description of goods.—A Powder for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, &c.

Claims use since about the 15th day of July, 1919.

Ser. No. 121,969. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT J. BUEHLER, Newark, N. J. Filed Aug. 25, 1919.



No registration rights being claimed for the words "Hasty" and "Tasty" apart from the mark shown in the drawing.

Particular description of goods.—Prepared Pudding.
Claims use since July, 1919.

Ser. No. 122,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIDSON BROTHERS, Chula Vista, Calif. Filed Aug. 26, 1919.



No claim being made to the word "Chemicals" apart from the matter shown.

Particular description of goods.—Organic Chemicals—*e. g.*, Acetal, Acetaldehyde, Acetamid, Acetanilid, Acetic Anhydrid, Acetone, Acetonyl Acetone, Acetophenone, Acetyl Acetone, Acetyl Bromid, Acetyl Chlorid, Acetylene Dibromid, Acetylene Dichlorid, Acetylene Diodid, Aldehyde Ammonia, Allyl Acetate, Allyl Alcohol, Allylamin, Allyl Benzoate, Allyl Bromid, Allyl Chlorid, Allyl Iodin, Allyl Mustard Oil, Allyl Oxalate, Allyl Sulfid, Amino-azobenzene, Aminophenol, Amyl Acetate, Amyl Alcohol, Amylamin, Amyl Benzene, Amyl Benzoate, Amyl Bromid, Amyl Butyrate, Amyl Chlorid, Amyl Ether, Amyl Formate, Amyl Iodin, Amyl Nitrite, Amyl Propionate, Amyl Valerate, Anisole, Anthranilic Acid, Azobenzene, Azonaphthalene, Azoxybenzene, Benzamid, Benzal Chlorid, Benzaldehyde, Benzidin, Benzyl, Benzoic Acid, Benzoic Anhydrid, Benzoin, Benzophenone, Benzotrichlorid, Benzoyl Chlorid, Benzyl Acetate, Benzyl Alcohol, Benzylamin, Benzyl Amyl Ether, Benzyl Benzoate, Benzyl Chlorid, Benzyl Ether, Benzyl Ethyl Ether, Benzyl Methyl Ether, Benzyl Phenyl Ether, Benzyl Phenyl Ketone, Benzyl Nitrile, Bromacetic Acid, Brom-Acetophenone, Brom-Acetyl Bromid, Brom-Benzene, Brom-Naphthalene, Brom-Nitro-Benzene, Brom-Toluene, Bromal, Bromoform, Butyl Acetate, Butyl Alcohol, Butyl Bromid, Butyl Chlorid, Chlor-Acetamid, Chloracetic Acid, Chloracetic Anhydrid, Chlor-Acetone, Chlor-Acetyl Chlorid, Chlor-Ether, Chlor-Ethyl Acetate, Chlorhydrin, Chlor-Methyl Nitrile, Chlor-Naphthalene, Chlor-Picrin, Chloranil, Chloral, Cinnamic Acid, Cinnamic Aldehyde, Citric Acid, Coumarin, Cyano-Acetic Acid, Cresol, Diacetin, Diacetyl, Diallyl, Diazoaminobenzene, Dibenzyl, Dibrom-Benzene, Dichlor-Acetone, Dichlor-Benzene, Dichlor-Ether, Dichlorhydrin, Diethylanilin, Dimethyl Acetal, Dimethylanilin, Dinaphthyl, Dinitrobenzene, Diphthenyl, Diphthenylamin, Diphthenylmethane, Eosin, Epichlorhydrin, Ethyl Aceto-Acetate, Ethyl Aceto-Glycollate, Ethylamin, Ethyl Benzene, Ethyl Benzoate, Ethyl Bromid, Ethyl Butyrate, Ethyl Carbonate, Ethyl Chloracetate, Ethyl Chlorid, Ethyl Cyano-Acetate, Ethyl Dichloracetate, Ethyl Formate, Ethyl Glycollate, Ethyl Iodin, Ethyl Malonate, Ethyl Nitril, Ethyl Oxalate, Ethyl Phenyl Ketone, Ethyl Propionate, Ethyl Succinate, Ethyl Sulfid, Ethyl Salicylate, Ethyl Mustard Oil, Ethyl Trichloracetate, Ethyl Valerate, Ethylal, Ethylene Dibromid, Ethylene Dichlorid, Ethylene Dicyanid, Ethylene Diethyl Ether, Ethylene Diphenyl Ether, Ethylene Oxid, Ethylidin Bromid, Ethylidin Chlorid, Eugenol, Fluorescein, Formadin, Formic Acid, Glycid Acetate, Glycid Alcohol, Glycol, Glycol Acetate, Glycol Benzoate, Glycol Chlorhydrin, Glycollic Acid, Hexachlor-Acetone, Hexachlor-Benzene, Hexachlorethane, Hydrazo-Benzene, Hydroxy-Benzaldehyde, Iodo-Benzene, Iodoform, Malonic Acid, Menthol, Mercury Diethyl, Mercury Dimethyl, Mercury Diphenyl, Mesityl Oxid, Mesitylene, Methyl Acetate, Methyl Anthranilate, Methyl Benzoate, Methyl Carbonate, Methyl Chloracetate, Methyl Cinnamate, Methyl Ethyl Ketone, Methyl Formate, Methyl Iodin, Methyl Nitrile, Methyl Oxalate, Methylal, Methylene Bromid, Methylene Chlorid, Methylene Iodin, Naphthol, Naphthyl Acetate, Naphthylamin, Naphthyl Benzoate, Naphthyl Ethyl Ether, Naphthyl Methyl Ether, Nitranilin, Nitrobenzaldehyde, Nitrodiphenyl, Nitromethane, Nitrophenol, Nitrotolene, Nitrotoluene, Nitrosobenzene, Nitrosodimethylanilin, Oxamid, Oxalyl Chlorid, Pentachlor-Phenol, Phenanthrene, Phenanthrene Dibromid, Phenolphthalein, Phenetole, Phenyl Acetaldehyde, Phenyl Acetate, Phenyl Benzoate, Phenyl Ether, Phenyl Hydrazin, Phenyl Mustard Oil, Phenyl Propyl Acetate, Phenyl Salicylate, Phenylenediamin, Phorone, Phthalic Anyhydrid, Phthalimid, Phthalyl Chlorid, Picramid, Picric Acid, Picryl Chlorid, Pinacolin, Pinacone, Pinene Hydrochlorid, Propionamid, Propionic Acid, Propionyl Chlorid, Propyl Alcohol, Propyl Iodid, Quinhydrone, Quinol, Quinoline, Quinone, Resorcinol, Saccharin, Salicylic Aldehyde, Stilbene, Succinamid, Succinic Acid, Succinyl Chlorid, Sulfanilic Acid, Tartaric Acid, Terpinyl Acetate, Thioacetic Acid, Thiophenol, Toludin, Terpineol, Tetrabromethane, Tetrachlorethane, Tetrachchlorethylene, Tetraphenylmethane, Triacetin, Tribromacetic Acid, Tribromhydrin, Tribrom-Phenol, Trichlor-Acetal, Trichlor-Acetamid, Trichloracetic Acid, Trichlor-Butyl Alcohol, Trichlor-Hydrin, Trichlor-Phenol, Trinitrobenzene, Trinitrotoluene, Triphenyl Benzene, Triphenyl Chlormethane, Triphenylmethane, Acetanilid, Acetic Acid, Acetone, Acetyl Chlorid, Amyl Alcohol, Aniline, Benzene, Benzyl Chlorid, Carbon Disulfid, Carbon Tetrachlorid, Chloracetic Acid, Chlor-Benzene, Chloral Hydrate, Chloroform, Cresol, Dichlor-Benzene, Ethyl Acetate, Ether, Glycerol, Naphthalene, Naphthol, Naphthylamin, Nitrobenzene, Nitronaphthalene, Oxalic Acid, Phenol, Pinene, Salicylic Acid, Terpin Hydrate, Toluene, Xylene.

Claims use since May 20, 1919.

Ser. No. 122,109. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Aug. 29, 1919.

The Bon

Particular description of goods.—Electric Flat-Irons,
Claims use since June 1, 1915.

Ser. No. 122,206. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COCHRAN & HORSEMAN, Marion, Ohio. Filed Sept. 2, 1919.



Particular description of goods.—Bread.
Claims use since Jan. 1, 1915.

Ser. No. 122,398. (CLASS 39. CLOTHING.) NATHAN HALPERIN, Brooklyn, N. Y. Filed Sept. 6, 1919.



The lining on the drawing being for green and no claim being made to the words "Halperin Fabrics."

Particular description of goods.—Wearing-Apparel for Males and Females, Known as Jerseys.

Claims use since May 15, 1919.

Ser. No. 122,506. (CLASS 31. FILTERS AND REFRIGERATORS.) AUTOMATIC CARBONIC MACHINE COMPANY, Peoria, Ill. Filed Sept. 10, 1919.

When you think of ICE think of US

Particular description of goods.—Refrigerating-Machines.
Claims use since Aug. 1, 1919.

Ser. No. 122,556. (CLASS 32. FURNITURE AND UPHOLSTERY.) SOMMA SHOPS, INC., New York, N. Y. Filed Sept. 10, 1919.

SOMMA SHOPS

No claim being made to the exclusive use of the word "Shops" apart from the mark as shown in the drawing.
Particular description of goods.—Furniture and Reproductions of Period Furniture—viz., Dining-Room Suites Comprising Sideboards, Tables, Portable China-Closets, Commodes, Dining-Room Chairs, Knife-Urns and Pedestals; Bedroom-Suites—viz., Bedsteads, Bureaus, Chiffonniers, Night-Stands, Dressing-Tables, Bedroom-Chairs, and Lounges; Miscellaneous Pieces of Furniture Comprising Settees, Sofas, Divans, Desks, Refectory and Console Tables, Chests, Bookcases, Magazine, Telephone, Smoking, and Sewing Stands, Tea-Tables, Decorative Panels and Picture-Plaques for Insertion into Pieces of Furniture, Service-Trays, Book Ends, and Worsted Winders and Stands.
Claims use since Aug. 21, 1919.

Ser. No. 122,607. (CLASS 39. CLOTHING.) NATIONAL WATER-PROOFING COMPANY, Memphis, Tenn. Filed Sept. 12, 1919.



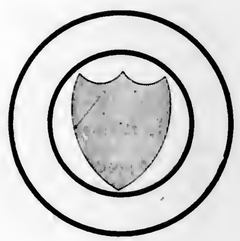
Particular description of goods.—Water-Proof Clothing or Coverings Consisting of Rain-Coats, Leggings, and Puttees.
Claims use since about Apr. 1, 1916.

Ser. No. 122,890. (CLASS 39. CLOTHING.) GRIGGS-PAXTON SHOE CO., INC., Roanoke, Va. Filed Sept. 19, 1919.



The drawing being lined to indicate blue.
Particular description of goods.—Boats and Shoes of Leather, Leather and Fabric, and Rubber Fabric.
Claims use since Dec. 5, 1917.

Ser. No. 122,991. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LEAD PRODUCTS COMPANY, St. Louis, Mo. Filed Sept. 22, 1919.



The shield is shaded to indicate red.
Particular description of goods.—Lead Products—Namely, Red Lead, Litharge, and Orange Mineral.
Claims use since June, 1909.

Ser. No. 122,997. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RUB-TEX ORGANIZATION COMPANY, Kenton, Ohio. Filed Sept. 22, 1919.

RUB-TEX

Particular description of goods.—Fibrous Rubber Floor-Board Mats, Fibrous Rubber Running-Board Mats, and Fibrous Rubber Step-Mats for Automobiles.
Claims use since Sept. 9, 1919.

Ser. No. 123,078. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROCHESTER GERMICIDE COMPANY, Rochester, N. Y. Filed Sept. 24, 1919.



No claim being made to exclusive use of the word "Germicide" apart from the mark shown.
Particular description of goods.—Disinfectants, Insecticides and Germicides.
Claims use since Jan. 1, 1895.

Ser. No. 123,125. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. STUART JONES, Washington, D. C. Filed Sept. 25, 1919.



Particular description of goods.—Coffee and Tea.
Claims use since the 25th of July, 1919.

Ser. No. 123,177. (CLASS 15. OILS AND GREASES.) ROBINSON P. SEARLE, Toledo, Ohio. Filed Sept. 26, 1919.



In the present instance lined to indicate red.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Jan. 1, 1914.

Ser. No. 123,178. (CLASS 15. OILS AND GREASES.) ROBINSON P. SEARLE, Toledo, Ohio. Filed Sept. 26, 1919.

BALSQ

In the present instance lined to indicate red.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Jan. 1, 1914.

Ser. No. 123,249. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LISENBY MANUFACTURING COMPANY, Fresno, Calif. Filed Sept. 29, 1919.

AUTOFEDE

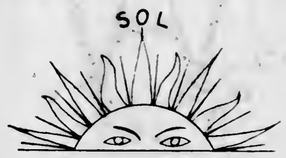
Particular description of goods.—Printing-Presses and Parts Thereof.
Claims use since Mar. 3, 1919.

Ser. No. 123,252. (CLASS 39. CLOTHING.) NATIONAL CLOAK & SUIT CO., New York, N. Y. Filed Sept. 29, 1919.



Disclaiming the mark or word "Blouse" shown on the drawing, as part thereof.
Particular description of goods.—Ladies' and Misses' Blouses.
Claims use since Jan. 15, 1919.

Ser. No. 123,288. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) J. & G. MEAKIN LIMITED, Hanley, England. Filed Sept. 30, 1919.



Particular description of goods.—Ironstone China and Semiporcelain Earthenware.
Claims use since the 20th day of May, 1919.

Ser. No. 123,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE NORDISKE FABRIKER, DE-NO-FA, Christiania, Norway. Filed Oct. 1, 1919.

DE-NO-FA

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats, Used as a Base in the Manufacture of Ointments for Medicinal Purposes.
Claims use since September, 1912.

Ser. No. 123,514. (CLASS 17. TOBACCO PRODUCTS.) JOHN CHRISTOFORIDES, London, England. Filed Oct. 7, 1919.

DULCE DOMUM

Particular description of goods.—Smoking and Chewing Tobacco, Cigars, and Cigarettes.
Claims use since March, 1911.

Ser. No. 123,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALDO R. BROWNE, Wyoming, N. Y. Filed Oct. 13, 1919.

HONEYBUN

Particular description of goods.—An Article of Confectionery Consisting of Honey Nougat.
Claims use since Aug. 26, 1919.

Ser. No. 123,746. (CLASS 39. CLOTHING.) S. S. LOEB & Co., Boston, Mass. Filed Oct. 13, 1919.

Highmount

The word "Highmount."

Particular description of goods.—Cravats, Collars, Dress-Shirts, Negligée Shirts, Work-Shirts, Night-Shirts, Pajamas, and Underwear—Namely, One and Two Piece Garments of Knitted, Netted, and Textile Materials.

Claims use since January, 1919.

Ser. No. 123,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAWYER D. CLARK, Boulder, Colo. Filed Oct. 16, 1919.

WON-DER-ALL · WON-DER-ALL ·

Particular description of goods.—A Salve or Ointment Used for Catarrh, Hay-Fever, Eczema, Scrofula, Dandruff, Piles, Burns, Poison-Ivy, Ringworm, Old Sores, and Sunburn or Any other Infection of the Skin of Whatsoever Kind or Nature.

Claims use since Sept. 8, 1919.

Ser. No. 123,929. (CLASS 39. CLOTHING.) ORONZIO GENTILE, West Hoboken, N. J. Filed Oct. 18, 1919.

NEMO

Particular description of goods.—Leather Shoes.

Claims use since Aug. 1, 1919.

Ser. No. 124,078. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) SARGOY BROS., Brooklyn, N. Y. Filed Oct. 22, 1919.

WEAR-EVER

No claim being made to the representation of a boiler apart from the mark shown.

Particular description of goods.—Washboilers for Laundry Purposes.

Claims use since Sept. 1, 1919.

Ser. No. 124,107. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAIN SOAPS CORPORATION, Dover, Del., and Jersey City, N. J. Filed Oct. 23, 1919.

13 UNLUCKY FOR DIRT

Particular description of goods.—Soaps and Soap Powders.

Claims use since Sept. 27, 1919.

Ser. No. 124,217. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALLEN F. KIPPER, Los Angeles, Calif. Filed Oct. 27, 1919.

KOZY-WINGS

Particular description of goods — Wind-Deflectors for Automobiles.

Claims use since Apr. 30, 1919.

Ser. No. 124,289. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SELENE P. THOMPSON, New York, N. Y. Filed Oct. 28, 1919.

A TRIP TO THE MOON

Particular description of goods.—An Apparatus Symbolizing a Journey to the Moon.

Claims use since 1901.

Ser. No. 124,450. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH, KLINE & FRENCH CO., Philadelphia, Pa. Filed Nov. 1, 1919.

SUPREMA

No claim is made to the word "Aspirin" apart from the mark as shown.

Particular description of goods.—Aspirin.

Claims use since June 1, 1919.

Ser. No. 124,457. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VANCOUVER DRUG COMPANY, LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 1, 1919.

HEAD FIX

Particular description of goods.—Preparations for the Relief of Headaches and Neuralgia.

Claims use since 1910.

Ser. No. 124,492. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RANSOM & RANDOLPH COMPANY, Toledo, Ohio. Filed Nov. 3, 1919.

The R&R Co.

Particular description of goods.—Local Anesthetic, Sodium Phenique Compound (an Antiseptic Solution for Sterilizing Instruments, &c.), and Dental Medicines for Treating Pyorrhea.

Claims use since Mar. 1, 1910.

Ser. No. 124,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HODGSON OIL REFINING CO., Athens, Ga. Filed Nov. 8, 1919.

GEM WHITE

Particular description of goods.—Lard Substitute.

Claims use since Oct. 28, 1919.

Ser. No. 124,724. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAYO-SKINNER MFG. COMPANY, Chicago, Ill. Filed Nov. 10, 1919.

E-Z-Quick

Particular description of goods.—Hand-Operated Tire-Pumps.

Claims use since Dec. 1, 1917.

Ser. No. 124,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGARET A. KELLY, San Francisco, Calif. Filed Nov. 12, 1919.

Victorine

Particular description of goods.—A Medicinal Preparation to be Used as a Dentifrice, Such as Tooth-Powder, and for Treating Pyorrhea.

Claims use since Nov. 3, 1919.

Ser. No. 124,999. (CLASS 39. CLOTHING.) LUNN & SWEET CO., Auburn, Me. Filed Nov. 17, 1919.

FOR YOUR TOES' WOES

Particular description of goods.—Leather Shoes and Juliettes.

Claims use since Oct. 17, 1919.

Ser. No. 125,059. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PEMETINE COMPANY INC., New York, N. Y. Filed Nov. 18, 1919.

PEMETINE

Comprising the word "Pemetine."

Particular description of goods.—A Preparation for the Treatment of the Teeth.

Claims use since Feb. 1, 1918.

Ser. No. 125,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MADELEINE FAEHNER, New York, N. Y. Filed Nov. 21, 1919.

WALDORF

Consisting of the word "Waldorf."

Particular description of goods.—A Hair-Tonic.

Claims use since May 6, 1896.

Ser. No. 125,154. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. ELLIS HAMBURGER, Brooklyn, N. Y. Filed Nov. 21, 1919.

THE SILENT SALESMAN

Particular description of goods.—Candy.

Claims use since Oct. 1, 1919.

Ser. No. 125,155. (CLASS 39. CLOTHING.) JUREIDINI EXPORT COMPANY, New York, N. Y. Filed Nov. 21, 1919.

X
J

Particular description of goods.—Philippine Lingerie, Underwear of Mercerized Cotton, Batiste of One Piece for Women and Children, Shoes Wholly of Leather and Also Leather with Rubber Soles and Heels; Hats for Men, Women, and Children.

Claims use since Jan. 9, 1919.

Ser. No. 125,172. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HYMAN BAUMAN & CO., New York, N. Y. Filed Nov. 22, 1919.

Glenlow

Consisting of the word "Glenlow."

Particular description of goods.—Handkerchiefs.

Claims use since Nov. 17, 1919.

Ser. No. 125,219. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CLAROTYPE COMPANY, Charleston, S. C., and New York, N. Y. Filed Nov. 24, 1919.

CLAR-O-TYPE

Particular description of goods.—A Chemical Cleansing Compound for Typewriters and other Metal Type, Engravers' Plates, Etchings, and the Like.
Claims use since Oct. 26, 1919.

Ser. No. 125,236. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. H. MIMS, Boston, Ga. Filed Nov. 24, 1919.

H J M

Particular description of goods.—A Medicine to be Taken Internally in the Treatment of Constipation, Torpid Liver, Indigestion, Pellagra, Dropsy, and Rheumatism; for Purifying the Blood, Quieting the Nerves, and Giving an Appetite; a Medicine to be Used as a Douche in the Treatment of Ulcerated Womb, Whites, Gonorrhea, and Various Ailments of the Female Organs, and a Liniment for External and Internal Use in the Treatment of Headache, Toothache, Neuralgia, Pneumonia, Strains and Bruises, Snake-Bite, Insect-Bites, Horse-Colic, Swinney, and Hog-Cholera.
Claims use since Sept. 12, 1919.

Ser. No. 125,253. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THEODORE SJOQUIST, Chicago, Ill. Filed Nov. 24, 1919.

BARYPHONE S&S S&S. MFG. CO. CHICAGO

Particular description of goods.—Sound-Intensifiers for Telephones.
Claims use since Nov. 5, 1919.

Ser. No. 125,294. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS INC., New York, N. Y. Filed Nov. 25, 1919.

ZARIEH

Particular description of goods.—Perfumery.
Claims use since September, 1916.

Ser. No. 125,322. (CLASS 7. CORDAGE.) EAGLE COTTON MILLS CO., Madison, Ind. Filed Nov. 26, 1919.

MONOGRAM

Particular description of goods.—Rope Yarns and Cotton Twines and Cordage.
Claims use since Nov. 7, 1919.

Ser. No. 125,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB E. DECKER & SONS, Mason City, Iowa. Filed Nov. 28, 1919.

Midland

Particular description of goods.—Hams, Bacon, and Picnic-Hams (Otherwise Known as Smoked Shoulders or California Hams.)
Claims use since early in the year 1899.

Ser. No. 125,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN R. THOMPSON CO., Chicago, Ill. Filed Dec. 3, 1919.

GOLD CRUST

No claim being made to the word "Crust" apart from the mark shown.
Particular description of goods.—Bread.
Claims use since Nov. 1, 1919.

Ser. No. 125,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH M. JONES, Baltimore, Md. Filed Dec. 8, 1919.

KAYLOX

Particular description of goods.—Insecticide and Fungicide.
Claims use since Dec. 5, 1919.

Ser. No. 125,757. (CLASS 39. CLOTHING.) OTTO MEYER AND CO. INC., New York, N. Y. Filed Dec. 9, 1919.

T BON N

Particular description of goods.—Leather Shoes.
Claims use since Oct. 6, 1919.

Ser. No. 125,793. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MULTIPLE ELECTRIC PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 10, 1919.

ATLAS



The lines of which indicate shading.
Particular description of goods.—Electric Fuses, Electric Motors, Electrical Insulating Material, Electric Lamps, Electric Switches, Electric Sockets, and Electric-Lighting Fixtures.
Claims use since Oct. 15, 1919.

Ser. No. 125,794. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MANHATTAN MEDICINE CO., Des Moines, Iowa. Filed Dec. 10, 1919.



The words "O-Sa-To Tonic," with a fanciful picture of an Indian's head and the word "Indian" below arranged with the design as shown. The exclusive use of the words "Tonic" and "Indian" is disclaimed except in connection with the other features mentioned.
Particular description of goods.—Laxative Tonic.
Claims use since Nov. 1, 1918.

Ser. No. 125,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICHARDSON DRY GOODS CO., St. Joseph, Mo. Filed Dec. 11, 1919.



Linnet

Particular description of goods.—Ribbons, Handkerchiefs, Sheets and Pillow-Cases, Veils and Veilings, Lace, Bedspreads, Art-Linens in the Piece, Tablecloths, Napkins; Linen, Cotton, and Union Damask in the Piece and in Specific Sizes, and Sheer White Fabrics in the Piece, Such as India Linen, Nainsook, Cambric, Longcloth, Dimities, Organdies, and Batiste.
Claims use since Oct. 15, 1919.

Ser. No. 125,916. (CLASS 32. FURNITURE AND UPHOLSTERY.) SILKHEART MATTRESS CO., Melbane, N. C. Filed Dec. 12, 1919.

Silkheart

Particular description of goods.—Mattresses.
Claims use since Oct. 24, 1919.

Ser. No. 125,983. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TEW PATENT DEVELOPMENT COMPANY, Seattle, Wash. Filed Dec. 13, 1919.

SHURFLO

Particular description of goods.—Valves for Cleaning Out Oil and Gas Pipes and Any Pipe That can be Cleaned by the Application of Compressed Air.
Claims use since Apr. 15, 1919.

Ser. No. 126,022. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Dec. 15, 1919.

"ONE-SET"

Particular description of goods.—Printing-Press Inking-Rollers.
Claims use since about Nov. 17, 1919.

Ser. No. 126,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. RUPERT COMPANY, INC., Portland, Oreg. Filed Dec. 15, 1919.

SUNCREST

Particular description of goods.—Canned Fruits—Namely, Canned Royal Anne Cherries, Canned Black Cherries, Canned Loganberries, Canned Strawberries, Canned Gooseberries, and Canned Pears; Canned Vegetables—Namely, Canned Wax-Beans; Canned Fish—Namely, Canned Salmon.
Claims use since July 1, 1919.

Ser. No. 126,068. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RHODES METALLIC PACKING CO. INC., Shreveport, La. Filed Dec. 15, 1919.



Particular description of goods.—Metallic Rod-Packing.
Claims use since Jan. 1, 1919.

Ser. No. 126,141. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) REFLEX AUTO ACCESSORY CO., Auburn, Ind. Filed Dec. 16, 1919.

REFLEX

Particular description of goods.—Brake-Band Lining.
Claims use since Oct. 15, 1918.

Ser. No. 126,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



The horizontal bars are colored, respectively, red, yellow, blue, white, and black and the vertical bars red, white, and blue, as indicated upon the drawing. No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai," as a technical trademark apart from the mark shown in the drawing.
Particular description of goods.—Dyestuffs.
Claims use since Nov. 27, 1919.

Ser. No. 126,232. (CLASS 39. CLOTHING.) REUBEN AND ZUKERMAN, INC., New York, N. Y. Filed Dec. 18, 1919.

RandZ

Particular description of goods.—Ladies' Waists.
Claims use since Nov. 25, 1919.

Ser. No. 126,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CADIMUS L. BOLT, Ware Shoals, S. C. Filed Dec. 20, 1919.

A.L.S.

Particular description of goods.—A Medicinal Compound for Use as a Liver-Regulator and General Tonic.
Claims use since on or about the year 1913.

Ser. No. 126,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMANUELLA M. HUGHES, New York, N. Y. Filed Dec. 20, 1919.

GRANDMA VODICKA'S
DRAWING AND HEALING
H.V.
SALVE
H.V.

No claim being made to the exclusive use of the words "Drawing and Healing" apart from the mark as shown in the drawing.
Particular description of goods.—A Medicinal Treatment for Skin Disease.
Claims use since July, 1919.

Ser. No. 126,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE UNITED STATES DRUG & CHEMICAL CO., Cleveland, Ohio. Filed Dec. 20, 1919.

Mellow

Particular description of goods.—Toilet Preparations: Hair-Tonics, Face and Shaving Lotions, Dentifrices, Cold-Cream, Vanishing Cream, and Shampoo Preparations.
Claims use since July, 1918.

Ser. No. 126,296. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE JOHN VAN RANGE CO., Cincinnati, Ohio. Filed Dec. 20, 1919.

CHAUFFERETTE

Particular description of goods.—Serving-Tables.
Claims use since August, 1919.

Ser. No. 126,342. (CLASS 39. CLOTHING.) CLARENCE N. ADELMANN, Newark, N. J. Filed Dec. 23, 1919.



The picture being intended to represent Betsy Ross, deceased.
Particular description of goods.—Corsets, Corset-Waists, Shirt-Waists, Ladies' and Misses' Suits and Dresses, Cloaks, Aprons, Fabric Gloves, and Ladies', Misses', and Children's Hats and Bonnets, Petticoats, Nightgowns, Combination Corset-Cover and Drawers, Chemisettes, Corset-Covers; Children's Dresses and Petticoats; Women's, Misses', and Children's Wash-Suits, Pajamas, Blouses, Dressing-Robes, Union-Suits; Ladies' Vests, Brassières, Bloomers, and Skirts; Infants' Dresses and Children's Rompers, the Underwear and Union Suits Being Made of Textile Materials and of Silk.
Claims use since May 15, 1917.

Ser. No. 126,352. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL K. CONDRELL, Kenmore, N. Y. Filed Dec. 23, 1919.

ALCOBAR

Particular description of goods.—Pure Milk-Chocolate Bars Containing Roasted Almonds and Toasted Cocoanut.
Claims use since Oct. 15, 1919.

Ser. No. 126,381. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARTMANN BROTHERS, INC., New York, N. Y. Filed Dec. 23, 1919.

Nedra

Particular description of goods.—Hair-Nets.
Claims use since July, 1917.

Ser. No. 126,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y. Filed Dec. 23, 1919.

NOVESTHENE

Particular description of goods.—Local Anesthetics.
Claims use since Apr. 15, 1919.

Ser. No. 126,395. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) B. SHONINGER CO., New Haven, Connecticut. Filed Dec. 23, 1919.

MALVORY

Particular description of goods.—Pianos.
Claims use since June 18, 1919.

Ser. No. 126,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIFFIN PRODUCTS, INC., New York, N. Y. Filed Dec. 23, 1919.

Tiffin

Particular description of goods.—Candy.
Claims use since Oct. 19, 1919.

Ser. No. 126,419. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEPTUNE FISHERIES, Ocean Grove, N. J. Filed Dec. 24, 1919.

COD TENDERLOINS

Particular description of goods.—Sea Foods Such as Dried Boneless Codfish.
Claims use since about Nov. 28, 1919.

Ser. No. 126,437. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN ABRASIVE COMPANY, Westfield, Mass. Filed Dec. 26, 1919.

AA

Particular description of goods.—Corundum in Bulk.
Claims use since about Apr. 11, 1919.

Ser. No. 126,440. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BENJAMIN H. ARNHEIM, Pittsburgh, Pa. Filed Dec. 26, 1919.

METAL SHINE

No claim is made to the words "Metal Shine" apart from the mark shown on the drawing.
Particular description of goods.—Metal-Polish.
Claims use since about March, 1919.

Ser. No. 126,483. (CLASS 39. CLOTHING.) PASQUALI NARDI, New York, N. Y. Filed Dec. 26, 1919.

Nardi

Particular description of goods.—Ladies' Riding-Habits.
Claims use since about Dec. 10, 1919.

Ser. No. 126,494. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) G. H. TYLER & CO., Cincinnati, Ohio. Filed Dec. 26, 1919.

SPORT

Particular description of goods.—Belts for Supporting Wearing-Apparel.
Claims use since Dec. 1, 1919.

Ser. No. 126,539. (CLASS 39. CLOTHING.) D. R. PASKIE & CO., New York, N. Y. Filed Dec. 27, 1919.

PASKOTE

Particular description of goods.—Coat-Collars of Various Kinds and Colors and Material.
Claims use since the 15th day of November, 1918.

Ser. No. 126,541. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. RUPERT COMPANY INC., Portland, Oreg. Filed Dec. 27, 1919.

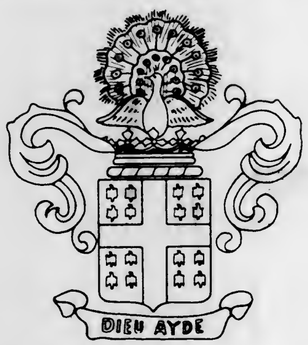


The representation of the dress of the package and the pictorial representation of the goods, together with the word "Preserved," are disclaimed apart from the other features of the mark.

Particular description of goods.—Fruit Preserves—Namely, Cranberry Preserves, Red-Currant Preserves, Gooseberry Preserves, Raspberry Jam—and Canned Salmon.

Claims use since Nov. 1, 1918.

Ser. No. 126,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BERESFORD B. DE MONTMORENCY, Chicago, Ill. Filed Dec. 29, 1919.



Particular description of goods.—Teas.

Claims use since Dec. 1, 1919.

Ser. No. 126,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SATISH CHANDRA GHOSH, Chicago, Ill. Filed Dec. 29, 1919.

GONESH



Particular description of goods.—Incense.

Claims use since sometime in 1915.

Ser. No. 126,586. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MCCLAREN RUBBER COMPANY, Charlotte, N. C. Filed Dec. 29, 1919.

Allroad

Particular description of goods.—Rubber or Rubber and Fabric Tires and Tubes for Vehicles.

Claims use since Dec. 8, 1919.

Ser. No. 126,590. (CLASS 2. RECEPTACLES.) PAR PO MFG. CO., Detroit, Mich. Filed Dec. 29, 1919.

PAR PO CASE

No claim is made to the word "Case" apart from the mark shown in the drawing.

Particular description of goods.—Parcel-Post Packages.

Claims use since Apr. 1, 1919.

Ser. No. 126,616. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Dec. 30, 1919.

Peacock

Particular description of goods.—Knit Underwear Comprising One, Two, and Three Piece Garments for Men, Women, and Children and for Hosiery for Men, Women, and Children.

Claims use since Mar. 10, 1919.

Ser. No. 126,630. (CLASS 39. CLOTHING.) FINE & LEVY, New York, N. Y. Filed Dec. 30, 1919.

FAULTLESS

Particular description of goods.—Men's and Boys' Caps.

Claims use since Jan. 1, 1914.

Ser. No. 126,685. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Barbed Wire; Metal Stock Drinking-Cups and Water-Bowls; Metal Fencing, Plain and Ornamental, and Parts Thereof—Namely, Fencing-Wire, Metal Fenceposts, Anchors for the Posts and Clips or Fasteners for Attaching the Wire to the Posts; Metal Gates, Metal Posts, Metal Stalls, Metal Stanchions, Wire Fences, and Steel Culverts.

Claims use since Jan. 1, 1919.

Ser. No. 126,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOSEA B. FAGAN, Burlington, Iowa. Filed Jan. 2, 1920.

Crescent



Particular description of goods.—A Malt Syrup for Food Purposes—Namely, a Substitute for Sugar to be Used in Cooking and Baking.

Claims use since Mar. 1, 1919.

Ser. No. 126,767. (CLASS 39. CLOTHING.) PIERRE E. GIROUX & CO., Johnstown, N. Y. Filed Jan. 3, 1920.

HILO TOPP

Particular description of goods.—Slippers Made of Animal Skins with Fur Thereon.

Claims use since Dec. 27, 1919.

Ser. No. 126,793. (CLASS 39. CLOTHING.) NATH'L FISHER & CO., New York, N. Y. Filed Jan. 5, 1920.



Particular description of goods.—Boots, Shoes, and Slippers of Leather, Rubber, or other Material.

Claims use since Dec. 8, 1919.

Ser. No. 126,821. (CLASS 39. CLOTHING.) RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 5, 1920.



The background of which is colored red. No claim is made to the use of the words "Work Shirt" apart from the mark shown on the drawing.

Particular description of goods.—Work-Shirts.

Claims use since May 28, 1919.

Ser. No. 126,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ACME CHEMICAL MFG. CO. LTD., New Orleans, La. Filed Jan. 6, 1920.

HGC

Consisting of the letters "H G C."

Particular description of goods.—A Medicinal Treatment for Catarrhal Conditions.

Claims use since Jan. 15, 1887.

Ser. No. 126,855. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE G. & H. CHEMICAL CO., INC., New York, N. Y. Filed Jan. 6, 1920.

STOPOL
THE SUPERIOR METAL GLOSS

No claim being made to the exclusive use of the words "The Superior Metal Gloss" apart from the mark as shown in the drawing.

Particular description of goods.—A Metal-Polish.

Claims use since Dec. 31, 1919.

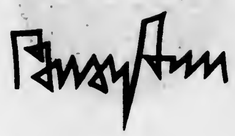
Ser. No. 126,864. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON & MURRAY, INCORPORATED, Utica, N. Y. Filed Jan. 6, 1920.

HIGHMARK

Particular description of goods.—Canned Lye, Bluing in Glass, and Ammonia in Glass.

Claims use on canned lye since Oct. 30, 1918; on bluing in glass since Aug. 9, 1919, and on ammonia in glass since Aug. 11, 1919.

Ser. No. 126,872. (CLASS 39. CLOTHING.) JOSEPH NEMSER, New York, N. Y. Filed Jan. 6, 1920.



Particular description of goods.—Ladies' Gowns for Outer Wear.

Claims use since the 15th day of December, 1919.

Ser. No. 126,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLDERT PEANUT PRODUCTS CO., Tyler, Tex. Filed Jan. 6, 1920.

WOLCO

Particular description of goods.—Peanut-Butter.
Claims use since Dec. 11, 1919.

Ser. No. 126,895. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHAMBERLAIN-HABER CHEMICAL CO., Cleveland, Ohio. Filed Jan. 7, 1920.

NOR-MALL

Particular description of goods.—Radiator Compound in the Nature of a Composition for Preventing Freezing and Preventing the Formation of Scale and Cleaning Scale from the Radiator-Walls, for Internal-Combustion Engines.
Claims use since Nov. 17, 1918.

Ser. No. 126,930. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif. Filed Jan. 8, 1920.

HOMELIKE

Particular description of goods.—Canned Fruit.
Claims use since September, 1914.

Ser. No. 126,932. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAIN SOAPS CORPORATION, Dover, Del., and Jersey City, N. J. Filed Jan. 8, 1920.

GRAINO

Particular description of goods.—Soaps and Soap Powders.
Claims use since Oct. 1, 1919.

Ser. No. 126,967. (CLASS 39. CLOTHING.) THOS. H. LOGAN CO., Hudson, Mass. Filed Jan. 9, 1920.

TOM LOGAN GOLF SHOE

No claim is made to the use of the following words: "Tom Logan Golf Shoe" except in connection with the remainder of the mark as shown.
Particular description of goods.—Boots and Shoes.
Claims use since June, 1919.

Ser. No. 126,984. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE F. BATCHELDER, Chicago, Ill. Filed Jan. 10, 1920.

Aphrodite

Particular description of goods.—Face-Cream, Face-Powder, Perfumes, Toilet Waters, Rouge, Hair-Tonic and Hair-Wash, Liquid Shampoo, and Nail-Polish.
Claims use since Jan. 6, 1920.

Ser. No. 126,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BAUER & BLACK, Chicago, Ill. Filed Jan. 10, 1920.



Particular description of goods.—Medicated Plasters.
Claims use since Mar. 13, 1914.

Ser. No. 127,005. (CLASS 39. CLOTHING.) LUXITE SILK PRODUCTS CO., Milwaukee, Wis. Filed Jan. 10, 1920.

Luxite

Particular description of goods.—Underwear Consisting of One and Two Piece Textile Knitted or Woven Undergarments for Men, Women, and Children.
Claims use since about Mar. 28, 1917.

Ser. No. 127,070. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNIVERSAL REMEDIES COMPANY, Duluth, Minn. Filed Jan. 12, 1920.

URCo
UNIVERSAL REMEDIES CO

Particular description of goods.—Liniment for Rheumatism, Sore Back, Stiff Joints, Headaches, Neuralgia, Cuts, Sores, Bruises, Burns, Mosquito-Bites, Fly-Bites, Cold in Chest, Toothache, and Chilblain.
Claims use since Nov. 1, 1919.

Ser. No. 127,112. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BURNETT-LARSH MANUFACTURING COMPANY, Dayton, Ohio. Filed Jan. 14, 1920.

DURO

Particular description of goods.—Explosive-Engines and Parts Thereof.
Claims use since about the 1st day of November, 1919.

Ser. No. 127,185. (CLASS 39. CLOTHING.) RODGERS HOSIERY COMPANY, INCORPORATED, Philadelphia, Pa. Filed Jan. 15, 1920.





The Chinese symbol being that for "Longevity."
Particular description of goods.—Hosiery.
Claims use since about May, 1919.

Ser. No. 127,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENNINGS & COMPANY, INC., Boston, Mass. Filed Jan. 19, 1920.

Vitryl

Particular description of goods.—Dyestuffs.
Claims use since about Apr. 23, 1918.

Ser. No. 127,292. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LA FAYETTE MOTOR COMPANY, Indianapolis, Ind. Filed Jan. 19, 1920.



Particular description of goods.—Automobiles.
Claims use since Dec. 20, 1919.

Ser. No. 127,293. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LAFAYETTE MOTORS COMPANY, Indianapolis, Ind. Filed Jan. 19, 1920.

LAFAYETTE · MOTORS · COMPANY · INDIANAPOLIS ·

The words "La Fayette Motors Company" and "Indianapolis" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Automobiles.
Claims use since Dec. 20, 1919.

Ser. No. 127,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAPEYRE BROTHERS, Great Falls, Mont. Filed Jan. 20, 1920.

HYDRASTIA CREAM

No claim being made to the word "Cream" apart from the mark shown.
Particular description of goods.—Toilet Cream for the Skin.
Claims use since 1890.

Ser. No. 127,376. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROBERT F. MACKENZIE CO., Cleveland, Ohio. Filed Jan. 20, 1920.

REPEATER

Particular description of goods.—Candy.
Claims use since January, 1913.

Ser. No. 127,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVIN RAWLEY NEHER, Ross, Mich. Filed Jan. 20, 1920.

MAXOGAS

Particular description of goods.—Chemical Tablets for Increasing the Efficiency of Gasolene.
Claims use since Oct. 15, 1919.

Ser. No. 127,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SENORET CHEMICAL CO., St. Louis, Mo. Filed Jan. 20, 1920.

Oromin

Particular description of goods.—A Medicinal Preparation Useful in the Treatment of Coughs, Colds, Bronchitis, Pleurisy, and Irritation of the Bronchial Tubes Due to Colds.
Claims use since Jan. 1, 1920.

Ser. No. 127,401. (CLASS 39. CLOTHING.) SHAPIRO BROS. & MIRSKY, Los Angeles, Calif. Filed Jan. 20, 1920.

Vanity

Particular description of goods.—Ladies' Waists for Outer Wear.
Claims use since Dec. 26, 1919.

Ser. No. 127,407. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TROPICS CORPORATION, New York, N. Y. Filed Jan. 20, 1920.

TTC

Particular description of goods.—Sugar.
Claims use since Dec. 1, 1919.

Ser. No. 127,448. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JACOB I. ROBIN, New York, N. Y. Filed Jan. 21, 1920.

USALYTE

Particular description of goods.—Gas-Heaters.
Claims use since about Nov. 1, 1919.

Ser. No. 127,473. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM S. GAVEY, New York, N. Y. Filed Jan. 22, 1920.

WoRoNoCo

Particular description of goods.—Woolens, Fluid Backs, Woolen Suitings, Woolen Coatings, Woolen Clonkings, Woolen Uniform-Cloths, Whip-Cords, Cotton, Silks, and Linens, All Goods in the Piece.
Claims use since Jan. 1, 1912.

Ser. No. 127,503. (CLASS 39. CLOTHING.) NATH'L FISHER & Co., New York, N. Y. Filed Jan. 23, 1920.

Rest-Assured

Particular description of goods.—Boots, Shoes, and Slippers of Leather, Rubber, or other Material.
Claims use since Jan. 9, 1920.

Ser. No. 127,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. ROSS, New York, N. Y. Filed Jan. 23, 1920.

LASHLVX

Particular description of goods.—An Ointment for Promoting the Growth of and Darkening the Eyebrows and Eyelashes.
Claims use since about June 21, 1919.

Ser. No. 127,524. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STANDARD ACCESSORY CORPORATION, Milwaukee, Wis. Filed Jan. 23, 1920.

RECORD-FLASHER

Particular description of goods.—Electrical-Lighting Attachments for Sound-Reproducing Machines.
Claims use since Jan. 10, 1920.

Ser. No. 127,532. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN IRON PRODUCTS COMPANY, INC., New York, N. Y. Filed Jan. 24, 1920.

AMIRON

Consisting of the word "Amiron."
Particular description of goods.—Sheet-Iron, Sheet-Steel, Tinplate, Iron and Steel Bars, Steel and Iron Plates, Black and Galvanized Wire.
Claims use since Jan. 1, 1919.

Ser. No. 127,551. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

AF
X

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,552. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

AF
O

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,553. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

AF
HV

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,554. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

AM
F

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,555. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

NLF
SVX

Particular description of goods.—Marble and Stone.
Claims use since about the middle of the year 1905.

Ser. No. 127,556. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

CH

Particular description of goods.—Marble and Stone.
Claims use since about the middle of the year 1905.

Ser. No. 127,557. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

CF

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,558. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

FM

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,559. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & Co. INC., New York, N. Y. Filed Jan. 24, 1920.

FS

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,560. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. D. JACKSON & CO. INC., New York, N. Y. Filed Jan. 24, 1920.

FU

Particular description of goods.—Marble and Stone.
Claims use since August, 1895.

Ser. No. 127,621. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.



Tiny-tot

Particular description of goods.—Talcum Powder, Chafing-Powder, Zinc-Stearate Talc, Milk of Magnesia, Worm Remedy, Colic Remedy, Cough Syrup, Antiseptic, and Lanolin.
Claims use since December, 1919.

Ser. No. 127,644. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SELDEN J. GULESIAN, Revere, Mass. Filed Jan. 27, 1920.

ARFCO

Particular description of goods.—Pipe-Rail Fittings Comprising Metal-Pipe Railing, T's, Floor-Flanges, and Elbows and Crosses with Their Side Outlets.
Claims use since Sept. 1, 1919.

Ser. No. 127,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES WILLIAM REED, Imperial, Calif. Filed Jan. 27, 1920.

BARBARA WORTH



Particular description of goods.—Citrus Fruit—Namely, Grape-Fruit.
Claims use since Dec. 15, 1919.

Ser. No. 127,769. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NEW YORK BOAT OAR CO., INC., New York, N. Y. Filed Jan. 30, 1920. Under ten-year proviso.

PAGE BRAND

Particular description of goods.—Oars, Sweeps, and Sculls.
Claims use since the year 1881.

Ser. No. 127,799. (CLASS 46. FOODS AND INGREDIENTS OF GOODS.) MARK M. DIFFENBACHER, San Francisco, Calif. Filed Jan. 31, 1920.



No claim is made to the words "Original" or "Spearmint Candy," either occurrence, or to the slogans "The arrow points to quality" and "The flavor hits the mark" apart from the mark as shown.
Particular description of goods.—Candies.
Claims use since Jan. 1, 1920.

Ser. No. 127,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORTUNE PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 31, 1920.

FORTUNE

Particular description of goods.—Spaghetti, Macaroni, Vermicelli, and Egg-Noodles.
Claims use since early in January, 1920.

Ser. No. 127,806. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORTUNE PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 31, 1920.

FORTUNE

Which is lined for yellow.
Particular description of goods.—Spaghetti, Macaroni, Vermicelli, and Egg-Noodles.
Claims use since early in January, 1920.

Ser. No. 127,824. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) T. J. MITCHELL & CO. INC., New York, N. Y. Filed Jan. 31, 1920.

Orange Blossom

Particular description of goods.—Silk Goods in the Piece.
Claims use since June, 1914.

Ser. No. 127,830. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PEARSALL & COMPANY, New York, N. Y. Filed Jan. 31, 1920.

FREEZNIT

Particular description of goods.—Fleece Goods Composed of Woolens, Worsted, Wool and Cotton, Wool and Silk, Silk, and Cotton.
Claims use since November, 1919.

Ser. No. 127,885. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EDWARD M. BECKER COMPANY, Cleveland, Ohio. Filed Feb. 3, 1920.

THE EM B CO.

Particular description of goods.—Marshmallow Candy.
Claims use since Oct. 20, 1919.

Ser. No. 127,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LONGINO & COLLINS, New Orleans, La. Filed Feb. 3, 1920.

Rosedale

Particular description of goods.—Butter.
Claims use since Jan. 1, 1919.

Ser. No. 127,931. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POPULAR CANNING CO. INC., Los Angeles, Calif. Filed Feb. 3, 1920.

OVER-THE-PEAK BRAND



No claim is made to exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Peaches, Canned Pears, Canned Tomatoes.
Claims use since Nov. 1, 1919.

Ser. No. 127,937. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHAW FAMILY, INC., San Jose, Calif. Filed Feb. 3, 1920.

H-S

Particular description of goods.—Canned Fruits—Namely, Canned Apricots, Canned Currants, Canned Figs, Canned Quinces, Canned Cherries, Canned Plums, Canned Peaches, Canned Raspberries, Canned Loganberries, Canned Blackberries, Canned Strawberries; Jams and Preserves—Namely, Peach Jam, Quince Jam, Apricot Jam, Strawberry Jam, Fig Jam, Plum Jam, Blackberry Jam, Loganberry Jam, Raspberry Jam, and Fig Preserves.
Claims use since Sept. 1, 1907.

Ser. No. 127,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHAW FAMILY, INC., San Jose, Calif. Filed Feb. 3, 1920.

JAM KITCHEN BRAND

No claim made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits—Namely, Canned Apricots, Canned Figs, Canned Quinces, Canned Plums, Canned Peaches, Canned Loganberries, Canned Blackberries, Canned Raspberries, Canned Strawberries, Canned Cherries, Canned Currants; Fruit Jams and Fruit Preserves—Namely, Apple Jam, Raspberry and Apple Jam, Blackberry and Apple Jam, Loganberry and Apple Jam, Peach and Apple Jam, Plum and Apple Jam, Cherry and Apple Jam.
Claims use since Sept. 1, 1909.

Ser. No. 127,981. (CLASS 39. CLOTHING.) LOUIS STIX & CO., Cincinnati, Ohio. Filed Feb. 4, 1920.

Stixmade

Particular description of goods.—Articles of Outer and Under Clothing for Women and Children—viz., Aprons, Bloomers, Muslin Underwear; Ladies', Children's, and Infants' Dresses; Ladies', Children's, and Infants' Coats, Outing-Gowns and Sleepers, Kimonos, Middies, Petticoats, Top Skirts, Rompers; Boys' Suits, Shirt-Waists, and Bath-Robes.
Claims use since Jan. 24, 1920.

Ser. No. 127,987. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES F. WHITE & CO., INC., New York, N. Y. Filed Feb. 4, 1920.

THRIFT

Particular description of goods.—Toweling.
Claims use since Sept. 1, 1919.

Ser. No. 128,035. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ABRASIVE COMPANY, Philadelphia, Pa. Filed Feb. 6, 1920.

ABRASIVE

No claim being made to the word "Abrasive" apart from the mark shown in the drawing.
Particular description of goods.—Grinding and Polishing Wheels.
Claims use since Nov. 1, 1919.

Ser. No. 128,073. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BLOCH CHEMICAL COMPANY, INC., New York, N. Y. Filed Feb. 7, 1920.



The pictures forming features of the mark are fanciful.
Particular description of goods.—Hair-Nets.
Claims use since March, 1919.

Ser. No. 128,081. (CLASS 39. CLOTHING.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif., and New York, N. Y. Filed Feb. 7, 1920.



Particular description of goods.—Men's Knitted Union-Suits.
Claims use since Sept. 1, 1919.

Ser. No. 128,107. (CLASS 39. CLOTHING.) BEATRICE HUBBELL-PLUMMER, Los Angeles, Calif. Filed Feb. 7, 1920.

CheerColor

Particular description of goods.—Smocks and Aprons.
Claims use since March, 1919.

Ser. No. 128,112. (CLASS 11. INKS AND INKING MATERIALS.) ROYAL INK & MUCILAGE CO., INC., Pittsburgh, Pa. Filed Feb. 7, 1920.



Particular description of goods.—Writing Fluid.
Claims use since Nov. 1, 1919.

Ser. No. 128,113. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SANGER BROTHERS, INC., Dallas, Tex., and New York, N. Y. Filed Feb. 7, 1920.

SCHOOL GIRL

Particular description of goods.—Ginghams, Cotton Goods, Wool and Cotton Goods, and Silk and Cotton Goods in the Piece.
Claims use since June, 1917.

Ser. No. 128,138. (CLASS 39. CLOTHING.) A. J. BATES & COMPANY, INC., New York, N. Y. Filed Feb. 9, 1920.

ORBITAN

Particular description of goods.—Shoes and Slippers of Leather and Combination of Rubber and Leather and Fabric.
Claims use since Dec. 23, 1919.

Ser. No. 128,197. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HYMAN BAUMAN & CO., New York, N. Y. Filed Feb. 10, 1920.

Swissodot

Consisting of the word "Swissodot."
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 23, 1920.

Ser. No. 128,215. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEXICAN PRODUCTS CORPORATION, Nogales, Ariz. Filed Feb. 10, 1920.

MEXCO

Particular description of goods.—Boxes of Fresh Tomatoes, Cabbage, Cantaloups, Cucumbers, and Fruits and Vegetables That are Permitted by the United States Government to Enter the United States from Mexico.
Claims use since Jan. 5, 1920.

Ser. No. 128,216. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLARD A. MILLER, Cambridge, Mass. Filed Feb. 10, 1920.

U-SAY

Particular description of goods.—Candy.
Claims use since Dec. 1, 1919.

Ser. No. 128,218. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RIDER WALLIS DRY GOODS CO., Dubuque, Iowa, and New York, N. Y. Filed Feb. 10, 1920.

WINALL

Consisting of the word "Winall."
Particular description of goods.—Cotton Piece Goods, Knit Piece Goods, Muslins, Cotton and Silk Ribbons, Webs, and Webbing.
Claims use since April, 1915.

Ser. No. 128,245. (CLASS 33. GLASSWARE.) TIFFANY AND COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Table-Glassware.
Claims use since 1868.

Ser. No. 128,247. (CLASS 33. GLASSWARE.) TIFFANY AND COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Table-Glassware.
Claims use since 1868.

Ser. No. 128,248. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) TIFFANY AND COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Non-Electric Lamps, Candlesticks, and Candelabra.
Claims use since 1868.

Ser. No. 128,249. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) TIFFANY AND COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Non-Electric Lamps, Candlesticks, and Candelabra.
Claims use since 1868.

Ser. No. 128,258. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNITED DRUG AND CANDY MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 10, 1920.



Particular description of goods.—Chocolate Candy.
Claims use since Dec. 1, 1919.

Ser. No. 128,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELLOGG PRODUCTS INC., Buffalo, N. Y. Filed Feb. 11, 1920.

Luncheon Spread

Particular description of goods.—Oleomargarin.
Claims use since Jan. 10, 1920.

Ser. No. 128,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. DODGE & SON CORP., Beverly, Mass. Filed Feb. 12, 1920.

OLD ELM

The words "Old Elm."
Particular description of goods.—Wheat-Flour, Bran, Middlings, Mixed Feed, Poultry Feed, and Dairy Feed.
Claims use since July 1, 1919.

Ser. No. 128,312. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN AND COHEN CO. INC., New York, N. Y. Filed Feb. 12, 1920.

1926

Particular description of goods.—Silk-Filled Crêpe de Chine Piece Goods.
Claims use since Jan. 2, 1912.

Ser. No. 128,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORMA CHOCOLATE COMPANY INC., Brooklyn, N. Y. Filed Feb. 12, 1920.

STANWIX

Particular description of goods.—Chocolate.
Claims use since September, 1919.

Ser. No. 128,325. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROGERS, HENNESSEY & JENKINS, Boston, Mass. Filed Feb. 12, 1920.

DUPLEX

The word "Duplex."
Particular description of goods.—Quilts, Cotton and Wool Blankets, and Traveling-Rugs.
Claims use since May 15, 1919.

Ser. No. 128,402. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE PANTASOTE LEATHER COMPANY, Passaic, N. J. Filed Feb. 14, 1920.

Panmack

Particular description of goods.—Waterproof Fabrics in the Piece.
Claims use since Aug. 1, 1919.

Ser. No. 128,426. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES C. DELMONICO, New York, N. Y. Filed Feb. 16, 1920.



The mark being the applicant's signature.
Particular description of goods.—Candy.
Claims use since Feb. 11, 1920.

Ser. No. 128,430. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Feb. 16, 1920.

WORLD WIDE

Particular description of goods.—Draperies Composed of Cotton, Silk, Artificial Silk, Wool, Mohair, and Combinations Thereof, and Decorative Fabrics Comprising Damasks, Tapestries, Velours, Armures, Taffeta Silks, Printed Linens, Printed Cottons, and Printed Jutes.
Claims use since Feb. 7, 1920.

Ser. No. 128,440. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE INTERNATIONAL HANDKERCHIEF MFG. CO., New York, N. Y. Filed Feb. 16, 1920.

LEGION

Particular description of goods.—Handkerchiefs.
Claims use since Jan. 24, 1920.

Ser. No. 128,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARLANDO T. HARRELL, Chicago, Ill. Filed Feb. 17, 1920.

UR  RITE

The pictorial representation of the container of the goods is disclaimed apart from the other features of the mark.
Particular description of goods.—Candy.
Claims use since Nov. 25, 1919.

Ser. No. 128,504. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Feb. 17, 1920.

SALON

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.
Claims use since Jan. 1, 1920.

Ser. No. 128,530. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM SKINNER & SONS, Holyoke, Mass. Filed Feb. 17, 1920.



Particular description of goods.—Silk Piece Goods and Cotton Piece Goods and Combinations of Same.
Claims use since October, 1883.

Ser. No. 128,559. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE PANTASOTE LEATHER COMPANY, Passaic, N. J. Filed Feb. 18, 1920.

Rumack

Particular description of goods.—Waterproof Fabrics in the Piece.
Claims use since Aug. 1, 1919.

Ser. No. 128,576. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WARNER-GODFREY CO., New York, N. Y. Filed Feb. 18, 1920.

American Voile

No claim being made to the exclusive use of the words "American Voile" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since March, 1913.

Ser. No. 128,692. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MOUSE CO., Chicago, Ill. Filed Feb. 20, 1920.



The lines are for shading only.
Particular description of goods.—Candy.
Claims use since Jan. 20, 1920.

Ser. No. 128,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY P. STRASBAUGH, Aberdeen, Md., assignor to National Canners Association, Washington, D. C. Filed Feb. 21, 1920.

MIRACLE

Particular description of goods.—Foods in Hermetically-Sealed Cans—Namely, Canned Fruits, Canned Vegetables, Canned Fish, Canned Milk, Canned Shell-Fish, Canned Soups, Canned Syrups, Canned Molasses.
Claims use since Feb. 16, 1920.

Ser. No. 128,823. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISCEGLIA BROTHERS, San Jose, Calif. Filed Feb. 24, 1920.

CRATI

Particular description of goods.—Canned Fruits—Namely, Canned Apricots, Canned Peaches, Canned Cherries, and Canned Pears; Canned Vegetables—Namely, Canned Peas and Canned String-Beans.
Claims use since Sept. 1, 1902.

Ser. No. 128,834. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL EISEMAN & CO. INC., New York, N. Y. Filed Feb. 24, 1920.

SOIE DE JOUR

Consisting of the words "Soie de Jour."
Particular description of goods.—Silk Piece Goods.
Claims use since January, 1920.

Ser. No. 128,838. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. GUMPERT & CO., Brooklyn, N. Y. Filed Feb. 24, 1920.

GUMPERT'S *Fluff-Up*

Particular description of goods.—A Powder for Use in Making Meringue, Marshmallow, Cake-Fillings, and Cake-Icings and to be Used in the Place of Whites of Eggs.
Claims use since Nov. 25, 1919.

Ser. No. 128,844. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. W. HUME COMPANY, San Francisco, Calif. Filed Feb. 24, 1920.

MIRACLE BRAND

No claim is made to the word "Brand" apart from the word mark shown in the drawing.
Particular description of goods.—Canned Fish, Canned Salmon; Canned Fruits—Namely, Canned Peaches; and Canned Vegetables—Namely, Canned Tomatoes.
Claims use since Dec. 10, 1919.

Ser. No. 128,885. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 25, 1920.

Korsikette

Particular description of goods.—Silk Piece Goods.
Claims use since Jan. 28, 1920.

Ser. No. 128,947. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., INC., Long Island City, N. Y. Filed Feb. 26, 1920.



Particular description of goods.—Snap-Fasteners.
Claims use since Feb. 4, 1920.

Ser. No. 128,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE F. N. JOHNSON MAPLE SYRUP COMPANY, Bellefontaine, Ohio. Filed Feb. 27, 1920.



Particular description of goods.—Cane and Maple Syrup.
Claims use since September, 1912.

Ser. No. 128,979. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PEOPLES SYSTEM OF BAKERIES, INC., Chicago, Ill. Filed Feb. 27, 1920.

PEOPLES

Particular description of goods.—Baking Plant Sold as a Unit, Said Plant Comprising Ovens, Dough-Mixers, Dough-Scrapers, Bread-Troughs, Bread-Racks, Dough-Troughs, Molding-Tables, Hot Plates, Baking-Pans, Pan-Trucks, Sieves, Scoops, Pots, Kettles, Knives, Cups, Pans, Thermometers, Weighing-Scales, Cash-Registers, Ice-Chests, Sales-Counters, and Window-Letters, All Going to Make Up the Baking-Plant Unit.
Claims use since on or about Aug. 1, 1919.

Ser. No. 129,011. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRI GUTMANN SILKS CORPORATION, New York, N. Y. Filed Feb. 28, 1920.

ZONAMA

Particular description of goods.—Silk Goods in the Piece.
Claims use since Nov. 10, 1919.

Ser. No. 129,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCE CANNING CO., Rockland, Me. Filed Feb. 28, 1920.



Particular description of goods.—Sardines.
Claims use since 1900.

Ser. No. 129,024. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOUTH BEND LATHE WORKS, South Bend, Ind. Filed Feb. 28, 1920.



No claim is made to the words "South Bend," "Trade-Mark," and "Engine Lathes" apart from the mark shown.
Particular description of goods.—Engine-Lathes.
Claims use since Feb. 17, 1920.

Ser. No. 129,115. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WATTS, STEBBINS & CO., New York, N. Y. Filed Mar. 1, 1920.

COVERETTE

Consisting of the word "Coverette."
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 25, 1920.

Ser. No. 129,364. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Mar. 6, 1920.

CHAU

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Feb. 17, 1920.

Ser. No. 129,872. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE BRAY PICTURES CORPORATION, New York, N. Y. Filed Mar. 18, 1920.

Pictographs

Particular description of goods.—Moving-Picture Films.
Claims use since January, 1916.

Ser. No. 130,400. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WALL & OCHS, INCORPORATED, Philadelphia, Pa. Filed Mar. 30, 1920.

WALL & OCHS

Particular description of goods.—Spectacles, Eyeglasses, Eyeglass Mountings, Ophthalmic Lenses, Thermometers, Barometers, Field-Glasses, and Opera-Glasses.
Claims use since September, 1887.

TRADE-MARK REGISTRATIONS GRANTED

MAY 4, 1920.

130,596. MECHANICAL STARTING DEVICES FOR AUTOMOBILES. ACE MANUFACTURING COMPANY, St. Louis, Mo.
Filed August 2, 1919. Serial No. 121,193. PUBLISHED DECEMBER 2, 1919.

130,597. ROAD-GRADERS. J. D. ADAMS & COMPANY, Indianapolis, Ind.
Filed September 8, 1919. Serial No. 122,416. PUBLISHED JANUARY 6, 1920.

130,598. CANNED SALMON, CANNED HERRING. THE ALASKA SALMON & HERRING PACKERS, INC., Seattle, Wash.
Filed November 19, 1919. Serial No. 125,070. PUBLISHED JANUARY 27, 1920.

130,599. VALVE-GRINDERS, VALVE-SEAT REAMERS, VALVE-REFACING TOOLS, BUSHING-REMOVERS. ALBERTSON & COMPANY, Sioux City, Iowa.
Filed June 2, 1919. Serial No. 119,096. PUBLISHED DECEMBER 2, 1919.

130,600. CANDIES. ALMA R. ALFOTH, Chicago, Ill.
Filed November 7, 1919. Serial No. 124,636. PUBLISHED JANUARY 27, 1920.

130,601. HOSE. LEON B. ALLING, Plainfield, N. J.
Filed October 10, 1919. Serial No. 123,597. PUBLISHED DECEMBER 30, 1919.

130,602. COMMINUTING MACHINERY, AND SPECIFICALLY TUBE AND BALL MILLS AND TUMBLING COMMINUTING-BODIES THEREFOR. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee, Wis.
Filed June 14, 1919. Serial No. 119,620. PUBLISHED JANUARY 6, 1920.

130,603. ABRASIVES — NAMELY, CORUNDUM IN BULK. AMERICAN ABRASIVE COMPANY, Westfield, Mass.
Filed May 10, 1919. Serial No. 118,342. PUBLISHED DECEMBER 2, 1919.

130,604. VOLTMETERS, CADMIUM LEADS FOR TESTING PURPOSES, ARMATURE-TESTERS, COMBINATION VOLTMETERS AND AMMETERS. AMERICAN BUREAU OF ENGINEERING, INC., Chicago, Ill.
Filed June 18, 1919. Serial No. 119,728. PUBLISHED JANUARY 13, 1920.

130,605. COMBS FOR DRESSING, ORNAMENTING, AND CLEANING THE HAIR AND BUTTONS FOR WEARING-APPAREL. AMERICAN HARD RUBBER COMPANY, Hempstead, New York.
Filed October 10, 1919. Serial No. 123,602. PUBLISHED JANUARY 27, 1920.

130,606. CERTAIN NAMED CLOTHING. THE AMERICAN IMPORT CO., San Francisco, Calif.
Filed May 3, 1919. Serial No. 118,102. PUBLISHED JANUARY 6, 1920.

130,607. CERTAIN NAMED CLOTHING. AMERICAN LA FRANCE FIRE ENGINE CO., INC., Elmira, N. Y.
Filed January 3, 1919. Serial No. 114,966. PUBLISHED JANUARY 6, 1920.

130,608. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed November 18, 1919. Serial No. 125,043. PUBLISHED JANUARY 20, 1920.

130,609. BEARING METAL. AMERICAN NON-FERROUS METALS CORPORATION, Chester, Pa.
Filed August 26, 1919. Serial No. 122,005. PUBLISHED JANUARY 6, 1920.

130,610. OPHTHALMIC LENSES. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed October 13, 1919. Serial No. 123,724. PUBLISHED JANUARY 6, 1920.

130,611. OVERGAITERS. AMERICAN OVERGAITER CO., Baltimore, Md.
Filed August 18, 1919. Serial No. 121,734. PUBLISHED JANUARY 6, 1920.

130,612. CEMENT, STUCCO, AND PLASTER. AMERICAN POZZOLANA COMPANY, Indianapolis, Ind.
Filed September 15, 1919. Serial No. 122,678. PUBLISHED JANUARY 27, 1920.

130,613. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. AMERICAN PRODUCTS CO., Omaha, Nebr.
Filed May 19, 1919. Serial No. 118,640. PUBLISHED FEBRUARY 10, 1920.

130,614. CERTAIN NAMED ELECTRICAL APPARATUS AND SUPPLIES. AMERICAN STEEL EXPORT COMPANY, New York, N. Y.
Filed April 30, 1918. Serial No. 110,556. PUBLISHED NOVEMBER 4, 1919.

130,615. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 8, 1919. Serial No. 122,421. PUBLISHED NOVEMBER 25, 1919.

130,616. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 18, 1919. Serial No. 122,806. PUBLISHED NOVEMBER 25, 1919.

130,617. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 18, 1919. Serial No. 122,807. PUBLISHED NOVEMBER 25, 1919.

130,618. TWINE. AMERICAN TWINE CO., INC., New York, N. Y.
Filed September 18, 1919. Serial No. 122,873. PUBLISHED JANUARY 20, 1920.

130,619. WEBBINGS WHICH ARE MADE OF COTTON, SILK, LINEN, OR WORSTED. ANCHOR WEBBING CO., Pawtucket, R. I.
Filed July 17, 1919. Serial No. 120,630. PUBLISHED DECEMBER 30, 1919.

130,620. COMPOSITIONS FOR FITTING FALSE TEETH. ANTI-PYORRHEA CHEMICAL COMPANY, St. Louis, Mo.
Filed June 30, 1919. Serial No. 120,084. PUBLISHED NOVEMBER 18, 1919.

130,621. CANVAS OUTING-SHOES. APSLEY RUBBER COMPANY, Hudson, Mass.
Filed October 8, 1919. Serial No. 123,531. PUBLISHED JANUARY 6, 1920.

130,622. SYRUP MADE OF CANE-SUGAR TO BE USED AS A FOOD OR AS AN INGREDIENT OF FOODS. ARCHBOLD MANUFACTURING CORPORATION, Rochester, N. Y.
Filed November 14, 1919. Serial No. 124,878. PUBLISHED JANUARY 27, 1920.

130,623. FIELD, GARDEN, AND FLOWER SEEDS. ARMIN RICHARD BRUNS, Washington, Iowa.
Filed June 6, 1919. Serial No. 119,262. PUBLISHED JANUARY 27, 1920.

130,624. COMPOSITION SOLES AND HEELS FOR BOOTS AND SHOES. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 28, 1919. Serial No. 118,977. PUBLISHED JANUARY 6, 1920.

130,625. COMPOSITION SOLES AND HEELS FOR BOOTS AND SHOES. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 28, 1919. Serial No. 118,978. PUBLISHED JANUARY 6, 1920.

130,626. TABLE-COVERS, NAPKINS, TABLE AND BUREAU SCARFS, AND HANDKERCHIEFS. ARSENIO JOSE FROES & COMPANY, INC., New York, N. Y.
Filed March 31, 1919. Serial No. 117,048. PUBLISHED JANUARY 13, 1920.

130,627. EDIBLE OILS—VIZ., PEANUT-OIL, COTTONSEED OIL, SOY-BEAN OIL, AND LARD SUBSTITUTE. ASPEGREN & COMPANY, New York, N. Y.
Filed June 28, 1919. Serial No. 120,023. PUBLISHED JANUARY 27, 1920.

130,628. SLATE-SURFACED ROOFINGS AND SLATE-SURFACE SHINGLES. THE ASPHALT MANUFACTURING COMPANY, Lancaster, Ohio.
Filed June 17, 1919. Serial No. 119,693. PUBLISHED JANUARY 20, 1920.

130,629. ELECTRIC WIRE. ATLANTIC INSULATED WIRE & CABLE COMPANY, Jersey City, N. J., and Stamford, Conn.
Filed May 1, 1919. Serial No. 118,036. PUBLISHED NOVEMBER 25, 1919.

130,630. CERTAIN NAMED FOODS. AUSTIN, NICHOLS & COMPANY INCORPORATED, Brooklyn and New York, N. Y.
Filed November 12, 1919. Serial No. 124,779. PUBLISHED JANUARY 13, 1920.

130,631. WALKING DOLL. "BABS" MANUFACTURING CORPORATION, Philadelphia, Pa.
Filed September 10, 1919. Serial No. 122,508. PUBLISHED DECEMBER 16, 1919.

130,632. STEEL BALLS FOR BALL-BEARINGS. H. BOKER & CO. INC., New York, N. Y.
Filed October 14, 1918. Serial No. 113,714. PUBLISHED DECEMBER 2, 1919.

130,633. STOCK FEED, HORSE FEED, DAIRY FEED, POULTRY FEED. BARBER & BENNETT, INC., Albany, N. Y.
Filed November 13, 1919. Serial No. 124,846. PUBLISHED JANUARY 20, 1920.

130,634. CANNED FISH — NAMELY, CANNED SALMON. MITCHEL BECK, Brooklyn, N. Y.
Filed August 8, 1919. Serial No. 121,382. PUBLISHED JANUARY 27, 1920.

130,635. ALL-COTTON ELASTIC BANDAGE. BECTON, DICKINSON & Co., Rutherford, N. J.
Filed August 19, 1919. Serial No. 121,802. PUBLISHED DECEMBER 2, 1919.

130,636. CANDY. PAUL F. BEICH CO., Bloomington, Ill.
Filed October 3, 1919. Serial No. 123,384. PUBLISHED DECEMBER 30, 1919.

130,637. MOTION-PICTURE-PRODUCING APPARATUS. BELL & HOWELL CO., Chicago, Ill.
Filed August 30, 1919. Serial No. 122,150. PUBLISHED DECEMBER 9, 1919.

130,638. CERTAIN NAMED TOOLS AND PARTS THEREOF. THE BILLINGS & SPENCER COMPANY, Hartford, Conn.
Filed April 7, 1919. Serial No. 117,216. PUBLISHED DECEMBER 30, 1919.

130,639. CANDIES, COCOA, CHOCOLATE, CRACKERS, JAMS, JELLIES, AND PEANUT-BUTTER. BISHOP & COMPANY, Los Angeles, Calif.
Filed January 2, 1919. Serial No. 114,944. PUBLISHED FEBRUARY 10, 1920.

130,640. BREAD. THE BIXLER BAKING CO., Youngstown, Ohio.
Filed October 20, 1919. Serial No. 123,958. PUBLISHED DECEMBER 30, 1919.

130,641. COMPOUND GROUND FEED. BLATCHFORD CALF MEAL COMPANY, Waukegan, Ill.
Filed April 17, 1919. Serial No. 117,555. PUBLISHED DECEMBER 9, 1919.

130,642. CIGARETTES. THE BLOCH BROS. TOBACCO CO., Wheeling, W. Va.
Filed July 16, 1919. Serial No. 120,591. PUBLISHED NOVEMBER 11, 1919.

130,643. CIGARETTES. THE BLOCH BROS. TOBACCO CO., Wheeling, W. Va.
Filed July 16, 1919. Serial No. 120,592. PUBLISHED NOVEMBER 18, 1919.

130,644. OIL-CUPS. BLOOM FLUSHER CO., Tiffin, Ohio.
Filed August 22, 1919. Serial No. 121,886. PUBLISHED DECEMBER 9, 1919.

130,645. IGNITION-TIMERS FOR INTERNAL-COMBUSTION ENGINES. BLUBLAZE MOTOR SPECIALTIES CORP., New York, N. Y.
Filed February 21, 1919. Serial No. 116,045. PUBLISHED NOVEMBER 11, 1919.

130,646. SWEET CHOCOLATE. BOLDEMANN CHOCOLATE COMPANY, San Francisco, Calif.
Filed October 14, 1919. Serial No. 123,770. PUBLISHED DECEMBER 30, 1919.

130,647. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. THE BORDEN COMPANY, Jersey City, N. J., and New York, N. Y.
Filed May 14, 1919. Serial No. 118,463. PUBLISHED JANUARY 13, 1920.

130,648. LUBRICATING AND GREASE GUNS. BOSTON AUTO GAGE COMPANY, Boston, Mass.
Filed September 2, 1919. Serial No. 122,204. PUBLISHED DECEMBER 9, 1919.

130,649. CANNED MEATS, SOUP, BOUILLON, SAUCES, SAUSAGES, BROWN BREAD, AND BEANS. BOSTON FOOD PRODUCTS COMPANY, East Boston, Mass.
Filed October 9, 1919. Serial No. 123,569. PUBLISHED DECEMBER 30, 1919.

130,650. TOOTH, NAIL, HAIR, BATH, AND FACE BRUSHES. A. BOURJOIS & CO., INC., New York, N. Y.
Filed August 9, 1919. Serial No. 121,443. PUBLISHED DECEMBER 2, 1919.

130,651. CHOCOLATES. THE BRECHT CANDY COMPANY, Denver, Colo.
Filed December 9, 1919. Serial No. 125,741. PUBLISHED FEBRUARY 10, 1920.

130,652. TOYS — NAMELY, DOLLS. LESLIE CLARK BRINTNALL, Los Angeles, Calif.
Filed September 16, 1919. Serial No. 122,755. PUBLISHED DECEMBER 9, 1919.

130,653. PROTECTING-TUBES FOR PYROMETERS. THE BROWN INSTRUMENT COMPANY, Philadelphia, Pa.
Filed July 12, 1919. Serial No. 120,474. PUBLISHED JANUARY 20, 1920.

130,654. LEDGER, RECORD, LINEN, BOND, AND WRITING PAPERS GENERALLY. L. L. BROWN PAPER COMPANY, Adams, Mass.
Filed February 14, 1919. Serial No. 115,850. PUBLISHED FEBRUARY 3, 1920.

130,655. MILLINERY — NAMELY, HATS, BONNETS, HOODS, AND SCARFS FOR WOMEN. C. A. BROWNING CO., Boston, Mass.
Filed July 10, 1919. Serial No. 120,402. PUBLISHED DECEMBER 2, 1919.

130,656. MEN'S SHIRTS—DRESS, OUTING, AND NEGLIGÉE. BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif.
Filed July 19, 1919. Serial No. 120,690. PUBLISHED DECEMBER 2, 1919.

130,657. MEN'S DRESS AND WORK SHIRTS. BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif.
Filed July 19, 1919. Serial No. 120,691. PUBLISHED DECEMBER 2, 1919.

130,658. OVERALLS. BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif.
Filed August 8, 1919. Serial No. 121,381. PUBLISHED DECEMBER 23, 1919.

130,659. STOCKINGS AND SOCKS. LOUIS BRUN FILS, Arre, France.
Filed June 10, 1919. Serial No. 119,388. PUBLISHED DECEMBER 30, 1919.

130,660. STOCKINGS AND SOCKS. LOUIS BRUN FILS, Arre, France.
Filed June 10, 1919. Serial No. 119,389. PUBLISHED JANUARY 6, 1920.

130,661. EDGE-TOOLS — VIZ., RAZORS. AUGUSTUS HAGER BRYANT, Glen Ridge, N. J.
Filed October 15, 1919. Serial No. 123,786. PUBLISHED DECEMBER 23, 1919.

130,662. OLIVE-OIL AND TOMATO PASTE. A. & C. BUSCAGLIA CO., Buffalo, N. Y.
Filed September 12, 1919. Serial No. 122,585. PUBLISHED JANUARY 27, 1920.

130,663. UNDERWEAR — NAMELY, SHIRTS AND DRAWERS OF TEXTILE FABRICS. THE B. V. D. COMPANY, New York, N. Y.
Filed October 3, 1919. Serial No. 123,385. PUBLISHED FEBRUARY 10, 1920.

130,664. WALNUT SAUCE USED AS A CONDIMENT FOR FOODS AND PICKLED WALNUTS. CALIFORNIA WALNUT SAUCE CO., Los Angeles, Calif.
Filed August 16, 1919. Serial No. 121,710. PUBLISHED DECEMBER 9, 1919.

130,665. WHEAT-FLOUR. T. L. CARROLL COMPANY, Gothenburg, Nebr.
Filed December 16, 1919. Serial No. 126,106. PUBLISHED FEBRUARY 24, 1920.

130,666. NAINSOOKS, MUSLINS, AND LONGCLOTH AND CAMBRICS. CARSON, PIRIE, SCOTT & CO., Chicago, Ill., assignors to Carson, Pirie, Scott & Company, Chicago, Ill., a Corporation of Illinois.
Filed December 7, 1918. Serial No. 114,528. PUBLISHED JANUARY 20, 1920.

130,667. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR OF KNITTED AND TEXTILE FABRICS, PETTICOATS, AND OUTER WAISTS. CARTERET SILK COMPANY, Jersey City, N. J.
Filed August 16, 1919. Serial No. 121,711. PUBLISHED JANUARY 6, 1920.

130,668. WHEAT-FLOUR. RAFAEL DEL CASTILLO & CO., New York, N. Y.
Filed May 16, 1919. Serial No. 118,543. PUBLISHED DECEMBER 30, 1919.

130,669. CANDY AND FRUIT TABLETS. CHARMS COMPANY, Newark, N. J.
Filed June 11, 1919. Serial No. 119,469. PUBLISHED JANUARY 6, 1920.

130,670. CANDY AND FRUIT TABLETS. CHARMS CO., Newark, N. J.
Filed October 15, 1919. Serial No. 123,788. PUBLISHED DECEMBER 30, 1919.

130,671. ELECTRIC FLAT-IRONS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed August 29, 1919. Serial No. 122,111. PUBLISHED NOVEMBER 11, 1919.

130,672. HORSE-LEATHER. CHICAGO TANNING CO., Chicago, Ill.
Filed September 5, 1919. Serial No. 122,341. PUBLISHED DECEMBER 23, 1919.

130,673. HOSIERY. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed August 25, 1919. Serial No. 121,972. PUBLISHED DECEMBER 2, 1919.

130,674. FRESH FRUITS—NAMELY, APPLES. CLOUD-THOMAS CO., Yakima, Wash.
Filed November 6, 1919. Serial No. 124,592. PUBLISHED JANUARY 27, 1920.

130,675. CAPS AND HATS FOR MEN AND CHILDREN. JOHN P. CODY, Evansville, Ind.
Filed August 1, 1919. Serial No. 121,171. PUBLISHED JANUARY 6, 1920.

130,676. LADIES' LEATHER SHOES. DORIS COHN, New York, N. Y.
Filed February 20, 1919. Serial No. 116,023. PUBLISHED JANUARY 6, 1920.

130,677. POWDERED BUTTERMILK. COLLIS PRODUCTS COMPANY, Clinton, Iowa.
Filed July 30, 1919. Serial No. 121,106. PUBLISHED DECEMBER 23, 1919.

130,678. MANICURING IMPLEMENTS — VIZ., MANICURE-STICKS. COLUMBIA MANICURE MFG. CO., New York, N. Y.
Filed April 5, 1919. Serial No. 117,179. PUBLISHED NOVEMBER 25, 1919.

130,679. ARTIFICIAL TEETH. THE COLUMBUS DENTAL MANUFACTURING COMPANY, Columbus, Ohio.
Filed June 16, 1919. Serial No. 119,634. PUBLISHED NOVEMBER 18, 1919.

130,680. CERTAIN NAMED RAILWAY CARS AND PARTS THEREOF. COMMONWEALTH STEEL COMPANY, St. Louis, Mo.
Filed August 28, 1919. Serial No. 122,073. PUBLISHED JANUARY 6, 1920.

130,681. MACHINES FOR INJECTING FLUID INTO THE GROUND FOR EXTERMINATING INSECTS. JULIO CONCEIÇÃO, Santos, Brazil.
Filed July 19, 1918. Serial No. 112,216. PUBLISHED DECEMBER 2, 1919.

130,682. STARTING FEED FOR CHICKS, A POULTRY FEED OF MEAT, GRAIN, AND BONE-MASH. THE G. E. CONKEY CO., Cleveland, Ohio.
Filed June 10, 1919. Serial No. 119,399. PUBLISHED JANUARY 6, 1920.

130,683. STARTING FEED FOR CHICKS AND A POULTRY FEED OF MEAT, GRAIN, AND BONE-MASH. THE G. E. CONKEY CO., Cleveland, Ohio.
Filed June 10, 1919. Serial No. 119,400. PUBLISHED JANUARY 6, 1920.

130,684. SEED-CORN, GRASS-SEEDS, AND FIELD-SEEDS. HORACE E. CONKLIN, Binghamton, N. Y.
Filed February 12, 1919. Serial No. 115,801. PUBLISHED JANUARY 27, 1920.

130,685. DETECTORS FOR WIRELESS-TELEGRAPH APPARATUS. THE CONNECTICUT TELEPHONE & ELECTRIC COMPANY, INCORPORATED, Meriden, Conn.
Filed April 4, 1919. Serial No. 117,153. PUBLISHED DECEMBER 9, 1919.

130,686. BOOTS AND SHOES OF RUBBER, CANVAS, OR COMBINATION. CONVERSE RUBBER SHOE COMPANY, Malden, Mass.
Filed June 26, 1919. Serial No. 119,971. PUBLISHED JANUARY 6, 1920.

130,687. ROLLED OATS. THE CORNO MILLS COMPANY, St. Louis, Mo.
Filed November 7, 1919. Serial No. 124,642. PUBLISHED JANUARY 27, 1920.

130,688. OVERALLS. COWDEN MANUFACTURING CO., St. Paul, Minn.
Filed August 6, 1919. Serial No. 121,294. PUBLISHED JANUARY 6, 1920.

130,689. GOLF-CLUBS. THE CRAWFORD MCGREGOR AND CANBY COMPANY, Dayton, Ohio.
Filed August 12, 1919. Serial No. 121,652. PUBLISHED NOVEMBER 18, 1919.

130,690. OVERALLS. THE CROWN OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed September 25, 1919. Serial No. 123,106. PUBLISHED DECEMBER 30, 1919.

130,691. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa.
Filed September 4, 1919. Serial No. 122,292. PUBLISHED JANUARY 6, 1920.

130,692. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa.
Filed September 4, 1919. Serial No. 122,293. PUBLISHED JANUARY 6, 1920.

130,693. CANDIES AND CHOCOLATES. D. A. P. CONFECTIONERY, INC., New York, N. Y.
Filed October 21, 1919. Serial No. 124,045. PUBLISHED JANUARY 27, 1920.

130,694. HOSIERY. DAUM ROGERS SPRITZER CO., New York, N. Y.
Filed November 6, 1919. Serial No. 124,597. PUBLISHED FEBRUARY 10, 1920.

130,695. BACON, HAMS, PURE LARD, CANNED BEEF, SAUSAGE, OX-TONGUES, LUNCH-TONGUES, AND PORK AND BEANS. THE WILLIAM DAVIES COMPANY, LIMITED, Chicago, Ill.
Filed May 26, 1919. Serial No. 118,903. PUBLISHED JANUARY 13, 1920.

130,696. MAYONNAISE DRESSING, CHILLI-CHOW, AND A MARSHMALLOW PREPARATION. JOHN A. DE LUCA, St. Helena, Md.
Filed November 19, 1919. Serial No. 125,080. PUBLISHED JANUARY 27, 1920.

130,697. BROOMS AND WHISK-BROOMS. DESHLER BROOM FACTORY, Deshler, Nebr.
Filed June 10, 1919. Serial No. 119,408. PUBLISHED NOVEMBER 25, 1919.

130,698. BROOMS AND WHISK-BROOMS. DESHLER BROOM FACTORY, Deshler, Nebr.
Filed June 10, 1919. Serial No. 119,409. PUBLISHED NOVEMBER 25, 1919.

130,699. POWDER-BLOWERS FOR USE IN MEDICINE AND SURGERY. THE DE VILBISS MANUFACTURING COMPANY, Toledo, Ohio.
Filed May 26, 1919. Serial No. 118,904. PUBLISHED NOVEMBER 25, 1919.

130,700. PARCHMENTIZED FIBER, SHEETS, RODS, TUBES, AND DISKS. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa.
Filed June 20, 1918. Serial No. 111,697. PUBLISHED DECEMBER 23, 1919.

130,701. PUZZLE. DROELLE & VITAL, Detroit, Mich.
Filed August 4, 1919. Serial No. 121,239. PUBLISHED NOVEMBER 18, 1919.

130,702. MEDICINAL PREPARATION FOR THE TREATMENT OF STOMACH, NERVES, AND LIVER. THE DRUM MEDICINE COMPANY, Salisbury, N. C.
Filed February 15, 1919. Serial No. 115,873. PUBLISHED MAY 6, 1919.

130,703. COFFEE. DUNCAN COFFEE CO., Houston, Tex.
Filed November 5, 1918. Serial No. 114,054. PUBLISHED DECEMBER 9, 1919.

130,704. HIGH EXPLOSIVE OF THE DYNAMITE TYPE. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed March 18, 1919. Serial No. 116,680. PUBLISHED JANUARY 20, 1920.

130,705. MECHANICAL HAIR-EXTRACTOR. LYDIA M. DURFEE, Springfield, Ohio.
Filed May 13, 1919. Serial No. 118,440½. PUBLISHED DECEMBER 2, 1919.

130,706. CERTAIN NAMED CUTLERY. DWIGHT DIVINE & SONS, Ellenville, N. Y.
Filed June 12, 1919. Serial No. 119,504. PUBLISHED JANUARY 6, 1920.

130,707. HONOR-ROLLS, BAS-RELIEFS, AND MEMORIAL TABLETS, ALL MADE OF METAL. DYMALKON METALS CORPORATION, New York, N. Y.
Filed April 14, 1919. Serial No. 117,450. PUBLISHED JANUARY 27, 1920.

130,708. DRINKING-FOUNTAINS AND PARTS THEREOF FOR HUMAN USE—NAMELY, BUBBLER-HEADS, COOLERS, AND STANDARDS. EASTERN FOUNTAIN CO., Boston, Mass.
Filed September 5, 1919. Serial No. 122,350. PUBLISHED JANUARY 6, 1920.

130,709. TOBACCO CIGARS AND TOBACCO CIGARETTES. PHILIP EILE, New York, N. Y.
Filed February 11, 1919. Serial No. 115,758. PUBLISHED NOVEMBER 25, 1919.

130,710. GIRDLES, BRASSIÈRES, HIP-REDUCERS, CORSETS, AND OTHER REDUCING AND RETAINING GARMENTS FOR IMPROVING PERSONAL APPEARANCE. THE ELASTOWEAR MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed May 21, 1919. Serial No. 118,755. PUBLISHED JANUARY 6, 1920.

130,711. LEATHER BOOTS AND SHOES. THE EMERSON SHOE COMPANY, Rockland, Mass.
Filed August 9, 1919. Serial No. 121,462. PUBLISHED JANUARY 6, 1920.

130,712. LEATHER BOOTS AND SHOES. THE EMERSON SHOE COMPANY, Rockland, Mass.
Filed August 9, 1919. Serial No. 121,463. PUBLISHED JANUARY 6, 1920.

130,713. LEATHER BOOTS AND SHOES. THE EMERSON SHOE COMPANY, Rockland, Mass.
Filed August 9, 1919. Serial No. 121,464. PUBLISHED JANUARY 6, 1920.

130,714. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF, WINCHES, AND CAPSTANS. N & S ENGINE CO., Seattle, Wash.
Filed September 9, 1919. Serial No. 122,494. PUBLISHED JANUARY 6, 1920.

130,715. DRESSES. THE ESTELLE COMPANY, Chicago, Ill.
Filed July 28, 1919. Serial No. 121,097. PUBLISHED JANUARY 6, 1920.

130,716. BITUMINOUS COAL. THE EVANS COAL COMPANY, Fort Wayne, Ind.
Filed May 5, 1919. Serial No. 118,143. PUBLISHED JUNE 17, 1919.

130,717. WRENCHES. J. H. FAW, INC., New York, N. Y.
Filed September 20, 1919. Serial No. 122,939. PUBLISHED DECEMBER 2, 1919.

130,718. SOLDER. FEDERAL MFG. CO., Lynn, Mass.
Filed July 26, 1919. Serial No. 120,956. PUBLISHED DECEMBER 9, 1919.

130,719. TALKING-MACHINE NEEDLES. B. & H. FIBRE MFG. CO., Chicago, Ill.
Filed May 8, 1918. Serial No. 110,768. PUBLISHED FEBRUARY 3, 1920.

130,720. BOOTS, OVERSHOES, PACS, GUM-SHOES, ARCTICS, AND GAITERS. THE FIRESTONE TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed March 15, 1919. Serial No. 116,595. PUBLISHED DECEMBER 2, 1919.

130,721. AUTOMOBILE-TIRE PUMPS. FORCE AIR PUMP COMPANY, Jefferson, Iowa.
Filed July 16, 1919. Serial No. 120,604. PUBLISHED DECEMBER 2, 1919.

130,722. TEAS. GERTRUDE H. FORD TEA COMPANY, INC., New York, N. Y.
Filed September 3, 1919. Serial No. 122,247. PUBLISHED JANUARY 27, 1920.

130,723. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed March 12, 1919. Serial No. 116,487. PUBLISHED DECEMBER 23, 1919.

130,724. ICE-CREAM AND ICES. FRESNO BREWING CO., Fresno, Calif.
Filed November 6, 1919. Serial No. 124,600. PUBLISHED JANUARY 27, 1920.

130,725. WHEAT-FLOUR. GALBRAITH MILLING COMPANY, Mount Morris, N. Y.
Filed April 26, 1919. Serial No. 117,874. PUBLISHED JANUARY 6, 1920.

130,726. SELF-RISING WHEAT-FLOUR. C. A. GAMBRILL MANUF'G COMPANY, Baltimore, Md.
Filed August 9, 1919. Serial No. 121,468. PUBLISHED DECEMBER 30, 1919.

130,727. SELF-RISING FLOUR. GARLAND MILLING COMPANY, Greensburg, Ind.
Filed September 25, 1919. Serial No. 123,117. PUBLISHED DECEMBER 9, 1919.

130,728. ELECTRICAL FLASH-LIGHTS. GENERAL ILLUMINATING CO., New York, N. Y.
Filed August 30, 1918. Serial No. 112,941. PUBLISHED DECEMBER 23, 1919.

130,729. CANNED VEGETABLES. EARLE GERNERT, Billings, Mont.
Filed November 12, 1919. Serial No. 124,792. PUBLISHED JANUARY 27, 1920.

130,730. BANK-DEPOSIT ACCOUNT-BOOKS SOLD TO THE TRADE. FRANK A. GESELL, Los Angeles, Calif.
Filed December 16, 1918. Serial No. 114,672. PUBLISHED JANUARY 6, 1920.

130,731. OLIVE-OIL. FRANCIS N. GIAVI, New York, N. Y.
Filed September 18, 1919. Serial No. 122,833. PUBLISHED JANUARY 13, 1920.

130,732. PURE FRUIT JAMS. GIBBS PRESERVING CO., Baltimore, Md.
Filed October 6, 1919. Serial No. 123,481. PUBLISHED JANUARY 27, 1920.

130,733. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. JOHN M. GIVEN, INC., Pittsburgh, Pa., New York, N. Y., and Chicago, Ill.
Filed June 30, 1919. Serial No. 120,106. PUBLISHED DECEMBER 2, 1919.

130,734. MALT AND CORN SYRUP FOR TABLE AND FAMILY USE. GLACIER PRODUCTS COMPANY, Kalispell, Mont.
Filed September 16, 1919. Serial No. 122,769. PUBLISHED DECEMBER 30, 1919.

130,735. LADIES' SILK UNDERWEAR IN ONE, TWO, AND THREE PIECES. GRACELINE MANUFACTURING COMPANY, Seattle, Wash.
Filed August 29, 1919. Serial No. 122,118. PUBLISHED DECEMBER 9, 1919.

130,736. TEA. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,637. PUBLISHED JANUARY 27, 1920.

130,737. STEEL FOR USE IN THE GENERAL MANUFACTURE OF TOOLS AND CUTLERY. ROBERT GRANT, New York, N. Y.
Filed July 25, 1919. Serial No. 120,913. PUBLISHED DECEMBER 9, 1919.

130,738. FARM-TRACTORS. THE GRAY TRACTOR COMPANY INC., Minneapolis, Minn.
Filed October 20, 1919. Serial No. 123,978. PUBLISHED JANUARY 13, 1920.

130,739. CANDY. ALEXANDER GREWE, New York, N. Y.
Filed April 5, 1919. Serial No. 117,184. PUBLISHED JANUARY 27, 1920.

130,740. ALUMINUM AND IRON COOKING UTENSILS. THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa.
Filed July 19, 1919. Serial No. 120,702. PUBLISHED DECEMBER 30, 1919.

130,741. CONDENSED MILK. J. B. GROSS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,342. PUBLISHED DECEMBER 30, 1919.

130,742. ICE-CREAM CONES. SEROPHEN G. HAGOPIAN, Chicago, Ill.
Filed August 9, 1919. Serial No. 121,470. PUBLISHED DECEMBER 9, 1919.

130,743. BREAD. HALLER BAKING COMPANY, Pittsburgh, Pa.
Filed September 24, 1919. Serial No. 123,055. PUBLISHED JANUARY 27, 1920.

130,744. OVERALLS AND JACKETS. HAPP BROTHERS CO., Macon, Ga.
Filed July 1, 1919. Serial No. 120,185. PUBLISHED DECEMBER 9, 1919.

130,745. HOG-WATERERS OF THE NATURE OF TANKS, SERVING AS A WATER-SUPPLY. THE HARTMAN COMPANY, Chicago, Ill.
Filed July 10, 1919. Serial No. 120,421. PUBLISHED JANUARY 6, 1920.

130,746. CERTAIN NAMED ELECTRIC LIGHTING AND WIRING FIXTURES. HARVEY HUBBELL, INCORPORATED, Bridgeport, Conn.
Filed May 2, 1919. Serial No. 118,085. PUBLISHED OCTOBER 7, 1919.

130,747. PRINTED FORMS FOR ESTIMATES OF PRINTING-WORK. HENRY M. HASTINGS, San Francisco, Calif.
Filed February 3, 1919. Serial No. 115,590. PUBLISHED JANUARY 6, 1920.

130,748. BREAD. C. F. HATHAWAY & SONS, North Cambridge, Mass.
Filed July 30, 1919. Serial No. 121,114. PUBLISHED JANUARY 6, 1920.

130,749. MANUFACTURED LEATHER-BOARD. THE HERKIMER FIBRE COMPANY, Herkimer, N. Y., and Boston, Mass.
Filed February 21, 1917. Serial No. 101,569. PUBLISHED JANUARY 20, 1920.

130,750. LEATHER GLOVES. THE HELLER LEATHER CO., Milwaukee, Wis.
Filed July 28, 1919. Serial No. 120,992. PUBLISHED DECEMBER 2, 1919.

130,751. OVERALLS, WORK-COATS, WORK-SHIRTS, AND WORK-TROUSERS. HIRSCH-MIRVISS MFG. CO., Minneapolis, Minn.
Filed May 26, 1919. Serial No. 118,912. PUBLISHED DECEMBER 2, 1919.

130,752. FIBER ROPES AND TWINES. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed August 7, 1919. Serial No. 121,341. PUBLISHED JANUARY 13, 1920.

130,753. FIBER ROPES AND TWINES. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed August 7, 1919. Serial No. 121,342. PUBLISHED JANUARY 13, 1920.

130,754. FIBER ROPES AND TWINES. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed August 7, 1919. Serial No. 121,343. PUBLISHED JANUARY 13, 1920.

130,755. FIBER ROPES AND TWINES. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed August 7, 1919. Serial No. 121,344. PUBLISHED JANUARY 20, 1920.

130,756. ELECTRIC SUCTION-SWEEPERS. THE HOOVER SUCTION SWEEPER COMPANY, New Berlin, Ohio.
Filed June 22, 1918. Serial No. 111,754. PUBLISHED NOVEMBER 25, 1919.

130,757. WOMEN'S LEATHER SHOES. THE HOMAN-HUGHES COMPANY, Cincinnati, Ohio.
Filed August 8, 1919. Serial No. 121,390. PUBLISHED DECEMBER 2, 1919.

130,758. MACHINERY FOR CERTAIN NAMED PURPOSES. S. HOWES CO., INC., Silver Creek, N. Y.
Filed July 3, 1919. Serial No. 120,248. PUBLISHED DECEMBER 30, 1919.

130,759. CUTLERY—NAMELY, MACHETES OR CANE-KNIVES. HUTH & CO., New York, N. Y.
Filed March 5, 1919. Serial No. 116,302. PUBLISHED JANUARY 13, 1920.

130,760. ROLLERS FOR CERTAIN NAMED MACHINES. IDEAL ROLLER COMPANY, Chicago, Ill.
Filed May 31, 1919. Serial No. 119,071. PUBLISHED JANUARY 6, 1920.

130,761. EGG-CASES, EGG-CASE FILLERS, CUSHION-FILLERS, AND CARTON-FILLERS FOR PROTECTING FRIABLE ARTICLES. INDIANA BOARD & FILLER COMPANY, Decatur, Ind.
Filed July 11, 1917. Serial No. 104,987. PUBLISHED NOVEMBER 4, 1919.

130,762. CATAMENIAL BANDAGES. INDIVIDUAL DRINKING CUP COMPANY, INC., New York, N. Y.
Filed April 25, 1919. Serial No. 117,839. PUBLISHED NOVEMBER 4, 1919.

130,763. BUTTONS MADE OF VULCANIZED FIBER. INTERNATIONAL BUTTON CO., Rochester, N. Y.
Filed July 25, 1919. Serial No. 120,920. PUBLISHED JANUARY 6, 1920.

130,764. FLAKE GRAPHITE. INTERNATIONAL CARBON PRODUCTS COMPANY, New York, N. Y.
Filed September 22, 1919. Serial No. 122,986. PUBLISHED DECEMBER 23, 1919.

130,765. CORK. INTERNATIONAL CORK COMPANY, Brooklyn, N. Y.
Filed September 5, 1919. Serial No. 122,357. PUBLISHED DECEMBER 23, 1919.

130,766. REVERSIBLE LEATHER COATS. INTERNATIONAL DUPLEX COAT CO., INC., New York, N. Y.
Filed July 23, 1919. Serial No. 120,827. PUBLISHED JANUARY 6, 1920.

130,767. SOLE-LEATHER. JANNEY & BURROUGH, INC., Philadelphia, Pa.
Filed April 10, 1919. Serial No. 117,344. PUBLISHED DECEMBER 23, 1919.

130,768. HOSIERY FOR MEN, WOMEN, AND CHILDREN, MEN'S COLLARS, DRESS-SHIRTS, OVERALLS, PANTS, AND UNDERWEAR. JOHNSTON DRY GOODS CO., Birmingham, Ala.
Filed November 6, 1919. Serial No. 124,607. PUBLISHED FEBRUARY 10, 1920.

130,769. ASH-CANS, GARBAGE-CANS, AND OIL-CANS. MYER KAMENSTEIN, New York and Brooklyn, N. Y.
Filed November 7, 1918. Serial No. 114,078. PUBLISHED NOVEMBER 4, 1919.

130,770. PETTICOATS AND BLOOMERS MADE OF ALL COTTON, ALL SILK, A COMBINATION OF COTTON AND SILK. MELCON A. KARAJAN, New York, N. Y.
Filed August 28, 1919. Serial No. 122,078. PUBLISHED DECEMBER 23, 1919.

130,771. BOOTS AND SHOES MADE OF LEATHER. WM. KAUT FOOTWEAR COMPANY, Carthage, Mo.
Filed June 16, 1919. Serial No. 119,656. PUBLISHED JANUARY 6, 1920.

130,772. BOOTS AND SHOES MADE OF LEATHER FOR MISSES AND CHILDREN. WM. KAUT FOOTWEAR COMPANY, Carthage, Mo.
Filed July 23, 1919. Serial No. 120,830. PUBLISHED JANUARY 6, 1920.

130,773. BOOTS AND SHOES MADE OF LEATHER FOR MISSES AND CHILDREN. WM. KAUT FOOTWEAR COMPANY, Carthage, Mo.
Filed July 23, 1919. Serial No. 120,833. PUBLISHED JANUARY 6, 1920.

130,774. BOOTS AND SHOES MADE OF LEATHER. WM. KAUT FOOTWEAR COMPANY, Carthage, Mo.
Filed August 9, 1919. Serial No. 121,472. PUBLISHED JANUARY 6, 1920.

130,775. BREAD, ROLLS, CRACKERS, BISCUITS, CAKES, CRULLERS, PIES, COOKIES, CAKE, CHOCOLATE, CHEWING-GUM, COUGH-DROPS, AND CANDY. KEEBLER WEYL BAKING CO., Philadelphia, Pa.
Filed November 17, 1919. Serial No. 124,996. PUBLISHED FEBRUARY 10, 1920.

130,776. CANNED SALMON. KELLEY-CLARKE CO., Seattle, Wash.
Filed November 28, 1919. Serial No. 125,385. PUBLISHED FEBRUARY 10, 1920.

130,777. CANDIES. R. F. KEPPEL & BRO. INC., Lancaster, Pa.
Filed November 17, 1919. Serial No. 124,995. PUBLISHED JANUARY 27, 1920.

130,778. CHILDREN'S SUITS AND ROMPERS. KIDDIE KOVER MANUFACTURING COMPANY, Detroit, Mich.
Filed July 28, 1919. Serial No. 120,998. PUBLISHED DECEMBER 2, 1919.

130,779. COAL. KING COAL COMPANY, San Francisco, Calif.
Filed December 5, 1918. Serial No. 114,495. PUBLISHED MARCH 25, 1919.

130,780. FLAVORING EXTRACT FOR FOODS. H. KOHNSTAMM & CO., New York, N. Y.
Filed October 30, 1919. Serial No. 124,348. PUBLISHED DECEMBER 30, 1919.

130,781. OLEOMARGARIN. THE KOKOMAR COMPANY, Cleveland, Ohio.
Filed December 28, 1918. Serial No. 114,856. PUBLISHED FEBRUARY 10, 1920.

130,782. WELDED AND RIVETED PIPE, RAILWAY-SPIKES, AND BOLTS, NUTS, AND METALLIC WASHERS. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed July 12, 1919. Serial No. 120,485. PUBLISHED JANUARY 6, 1920.

130,783. CERTAIN NAMED RAILWAY APPLIANCES AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed July 12, 1919. Serial No. 120,486. PUBLISHED NOVEMBER 18, 1919.

130,784. CORSETS AND BRASSIÈRES. KOPS BROS., New York, N. Y.
Filed August 12, 1919. Serial No. 121,591. PUBLISHED DECEMBER 2, 1919.

130,785. STOCK FEED MADE FROM CORN, OATS, SHORTS, AND FLAX-PLANT REFUSE. CHAS. A. KRAUSE MILLING CO., Greenfield, Wis.
Filed August 11, 1919. Serial No. 121,531. PUBLISHED DECEMBER 9, 1919.

130,786. CLOTHESLINES. KRENNING-SCHLAPP GROCER COMPANY, St. Louis, Mo.
Filed September 15, 1919. Serial No. 122,707. PUBLISHED JANUARY 20, 1920.

130,787. PREPARATION THAT DESTROYS DANDRUFF, STOPS FALLING OUT OF HAIR, AND RELIEVES ITCHING OF THE SCALP. STRATOS D. KTENAVEAS, Washington, D. C.
Filed March 4, 1919. Serial No. 116,287. PUBLISHED MAY 13, 1919.

130,788. WOMEN'S SUITS, DRESSES, AND SKIRTS. KUX BROTHERS, Cleveland, Ohio.
Filed August 23, 1919. Serial No. 121,939. PUBLISHED DECEMBER 2, 1919.

130,789. CONFECTION KNOWN AS MINTS. L. P. LARSON JR. COMPANY, Chicago, Ill.
Filed September 16, 1919. Serial No. 122,779. PUBLISHED JANUARY 20, 1920.

130,790. CANNED FISH—NAMELY, CANNED SARDINES. LAWRENCE CANNING CO., Rockland, Me.
Filed November 6, 1919. Serial No. 124,612. PUBLISHED JANUARY 27, 1920.

130,791. TROUSERS. ROBERT LAWSON & SONS, Philadelphia, Pa.
Filed November 17, 1919. Serial No. 124,998. PUBLISHED FEBRUARY 10, 1920.

130,792. WEARING-APPAREL. THE H. D. LEE MERCANTILE CO., Salina, Kans., and Kansas City, Mo.
Filed August 6, 1919. Serial No. 121,307. PUBLISHED FEBRUARY 3, 1920.

130,793. CIGARS. FRANCIS H. LEGGETT & CO., New York, N. Y.
Filed June 30, 1919. Serial No. 120,114. PUBLISHED NOVEMBER 11, 1919.

130,794. MEN'S SUITS AND OVERCOATS. B. H. LEVY BRO. & CO., Savannah, Ga.
Filed July 7, 1919. Serial No. 120,312. PUBLISHED JANUARY 6, 1920.

130,795. SANITARY NAPKINS. LEWIS MANUFACTURING COMPANY, Walpole, Mass.
Filed April 24, 1919. Serial No. 117,813. PUBLISHED NOVEMBER 11, 1919.

130,796. CIGARETTE-PAPER. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed August 28, 1919. Serial No. 122,081. PUBLISHED DECEMBER 2, 1919.

130,797. EXTRACT HAVING A MAPLE FLAVOR AND USED FOR FLAVORING DESSERTS, ICE-CREAM, CONFECTIONS, AND SYRUPS USED AS FOOD. LIMPERT BROS., INC., New York, N. Y.
Filed March 3, 1919. Serial No. 116,270. PUBLISHED JANUARY 6, 1920.

130,798. LEATHER BOOTS AND SHOES. LOCKE SHOE CO., Wheeling, W. Va.
Filed August 26, 1919. Serial No. 122,017. PUBLISHED JANUARY 6, 1920.

130,799. ELECTRIC STEAM ALARM-WHISTLES. CARL M. LOVSTED, Seattle, Wash.
Filed May 2, 1918. Serial No. 110,604. PUBLISHED NOVEMBER 25, 1919.

130,800. CANDY. THE WALTER M. LOWNEY COMPANY, Boston, Mass.
Filed December 10, 1919. Serial No. 125,783. PUBLISHED FEBRUARY 10, 1920.

130,801. EGGS, POULTRY, AND BUTTER. JOHN LYNARD, Owatonna, Minn.
Filed September 27, 1919. Serial No. 123,212. PUBLISHED JANUARY 6, 1920.

130,802. PLOWS AND PARTS THEREOF. LYNCHBURG FOUNDRY COMPANY, Lynchburg, Va.
Filed November 6, 1919. Serial No. 124,610. PUBLISHED JANUARY 20, 1920.

130,803. SPICES AND CERTAIN NAMED EXTRACTS AND FLAVORS. MCCORMICK & CO., Baltimore, Md.
Filed May 27, 1919. Serial No. 118,969. PUBLISHED JANUARY 27, 1920.

130,804. CANDIES. MCDOWELL, PYLE & CO., INC., Baltimore, Md.
Filed December 5, 1919. Serial No. 125,620. PUBLISHED FEBRUARY 10, 1920.

130,805. APPARATUS FOR GENERATING, CONTROLLING, AND APPLYING ELECTRIC CURRENT FOR THERAPEUTIC PURPOSES. MCINTOSH BATTERY AND OPTICAL CO., Chicago, Ill.
Filed September 21, 1918. Serial No. 113,296. PUBLISHED DECEMBER 9, 1919.

130,806. ELECTRODE-PADS FOR APPLICATION OF ELECTRICITY IN MEDICAL TREATMENT OF LUMBAGO, BODY-MASSAGES, AND PRURITIS. MCINTOSH BATTERY & OPTICAL CO., Chicago, Ill.
Filed July 19, 1919. Serial No. 120,708. PUBLISHED DECEMBER 2, 1919.

130,807. COMBINATION OF SUGAR AND CINNAMON FOR GRIDDLE-CAKE AND WAFFLE SEASONING. MARGUERITE C. MCKENNA, New York, N. Y.
Filed September 12, 1919. Serial No. 122,603. PUBLISHED JANUARY 13, 1920.

130,808. CANDY. CYRIL C. MAHAN, Baltimore, Md.
Filed October 4, 1919. Serial No. 123,443. PUBLISHED DECEMBER 30, 1919.

130,809. ELECTRIC AIR, WATER, AND IMMERSION HEATERS. MAJESTIC ELECTRIC DEVELOPMENT CO., San Francisco, Calif.
Filed June 26, 1917. Serial No. 104,704. PUBLISHED NOVEMBER 25, 1919.

130,810. BOYS' AND GIRLS' SHOES MADE WHOLLY OR IN PART OF LEATHER. H. F. MALOTT SHOE CO., Chicago, Ill.
Filed October 28, 1919. Serial No. 124,274. PUBLISHED FEBRUARY 10, 1920.

130,811. CERTAIN NAMED CLOTHING. ABRAHAM M. MALOUF, New York, N. Y.
Filed April 22, 1918. Serial No. 110,377. PUBLISHED FEBRUARY 10, 1920.

130,812. SHOES, PARTICULARLY CHILDREN'S SHOES, OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SUCH MATERIALS. MARATHON SHOE CO., Wausau, Wis.
Filed June 17, 1919. Serial No. 119,711. PUBLISHED JANUARY 6, 1920.

130,813. CIGARS. MARCELINO PEREZ & COMPANY, New York, N. Y.
Filed July 12, 1919. Serial No. 120,497. PUBLISHED NOVEMBER 11, 1919.

130,814. MEN'S AND YOUNG MEN'S AND BOYS' READY-TO-WEAR COATS, VESTS, AND TROUSERS. JACOB H. MARGOLIS, Dayton, Ohio.
Filed October 3, 1919. Serial No. 123,391. PUBLISHED FEBRUARY 10, 1920.

130,815. SLEEPING-GARMENTS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed August 13, 1919. Serial No. 121,634. PUBLISHED DECEMBER 2, 1919.

130,816. GRAIN-BAGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed August 13, 1919. Serial No. 121,635. PUBLISHED DECEMBER 9, 1919.

130,817. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y.
Filed February 19, 1919. Serial No. 115,993. PUBLISHED JANUARY 6, 1920.

130,818. CANDIES. MASON CITY CANDY CO., Mason City, Iowa.
Filed November 7, 1919. Serial No. 124,659. PUBLISHED JANUARY 27, 1920.

130,819. WEIGHING-SCALES. MASON, DAVIS & COMPANY, Chicago, Ill.
Filed July 1, 1919. Serial No. 120,175. PUBLISHED DECEMBER 9, 1919.

130,820. CERTAIN NAMED MACHINERY AND PARTS THEREOF. MASSEY-HARRIS HARVESTER CO. INC., Batavia, N. Y.
Filed March 24, 1919. Serial No. 116,845. PUBLISHED DECEMBER 30, 1919.

130,821. MILK-CHOCOLATE. THE MAURICE COMPANY, Cleveland, Ohio.
Filed October 17, 1919. Serial No. 123,897. PUBLISHED FEBRUARY 24, 1920.

130,822. TAFFY AND CREAM CANDY. LAWRENCE T. MALONE, San Antonio, Tex.
Filed June 23, 1919. Serial No. 119,858. PUBLISHED JANUARY 27, 1920.

130,823. CHOCOLATE-COATED CANDY. LAWRENCE T. MALONE, San Antonio, Tex.
Filed June 23, 1919. Serial No. 119,859. PUBLISHED JANUARY 27, 1920.

130,824. RUBBER AND COMPOSITION SOLES, HALF-SOLES, AND HEELS. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed September 25, 1918. Serial No. 113,368. PUBLISHED DECEMBER 2, 1919.

130,825. RUBBER AND COMPOSITION SOLES, HALF-SOLES, AND HEELS. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed September 25, 1918. Serial No. 113,369. PUBLISHED DECEMBER 2, 1919.

130,826. MOVING-PICTURE FILMS. GERALD J. MARFLEET, Rock Falls, Ill.
Filed April 3, 1919. Serial No. 117,141. PUBLISHED DECEMBER 30, 1919.

130,827. SELF-CONTAINED ELECTRIC POWER-GENERATING AND LIGHTING PLANTS. THE MARMON CHICAGO COMPANY, Chicago, Ill.
Filed March 26, 1919. Serial No. 116,927. PUBLISHED DECEMBER 2, 1919.

130,828. MECHANICS' HAND-TOOLS—VIZ., SCREW-DRIVERS. MAYHEW STEEL PRODUCTS INC., New York, N. Y.
Filed October 27, 1919. Serial No. 124,221. PUBLISHED JANUARY 13, 1920.

130,829. DRY STORAGE BATTERIES. JOHN P. MENTZER, Chicago, Ill.
Filed September 30, 1918. Serial No. 113,491. PUBLISHED JANUARY 6, 1920.

130,830. COFFINS, CASKETS, ROUGH BOXES. STEPHEN MERRITT, New York, N. Y.
Filed August 4, 1919. Serial No. 121,251. PUBLISHED NOVEMBER 11, 1919.

130,831. HYDRAULIC MACHINERY AND EQUIPMENT. METALWOOD MANUFACTURING CO., Detroit, Mich.
Filed July 28, 1919. Serial No. 121,001. PUBLISHED JANUARY 13, 1920.

130,832. LEATHER SHOES FOR ADULTS, BOYS, AND GIRLS. MILTON J. MEYER & CO., INC., New York, N. Y.
Filed August 1, 1919. Serial No. 121,179. PUBLISHED JANUARY 6, 1920.

130,833. GLASS-CUTTERS. J. E. MILLER, Chicago, Ill.
Filed September 23, 1919. Serial No. 123,034. PUBLISHED DECEMBER 2, 1919.

130,834. INFANTS' AND CHILDREN'S DRESSES. ABE MILLMAN, New York, N. Y.
Filed August 29, 1919. Serial No. 122,128. PUBLISHED JANUARY 6, 1920.

130,835. EGGS. JOHN MORRELL & CO., Ottumwa, Iowa.
Filed November 12, 1919. Serial No. 124,802. PUBLISHED JANUARY 27, 1920.

130,836. HAIR-BRUSHES, CLOTHES-BRUSHES, AND SHOE BRUSHES AND DAUBERS. JOHN MORRISON, Jr., Glens Falls, N. Y.
Filed May 21, 1919. Serial No. 118,763. PUBLISHED DECEMBER 2, 1919.

130,837. PHONOGRAPHS. THE MUSIC TABLE COMPANY, Greenfield, Ohio.
Filed September 15, 1919. Serial No. 122,718. PUBLISHED JANUARY 27, 1920.

130,838. RELIEF-VALVES FOR MACHINERY AND BALL FLOAT-VALVES FOR MACHINERY. NASH ENGINEERING CO., South Norwalk, Conn.
Filed August 8, 1919. Serial No. 121,406. PUBLISHED JANUARY 6, 1920.

130,839. WHEAT-FLOUR. NASHVILLE ROLLER MILLS, Nashville, Tenn.
Filed October 14, 1919. Serial No. 123,778. PUBLISHED DECEMBER 30, 1919.

130,840. FLAVORING EXTRACTS FOR FOOD. NATIONAL FRUIT FLAVOR CO., New Orleans, La.
Filed August 18, 1919. Serial No. 121,777. PUBLISHED JANUARY 6, 1920.

130,841. GRAVE-VAULTS. THE NATIONAL GRAVE VAULT COMPANY, Galion, Ohio.
Filed October 24, 1919. Serial No. 124,147. PUBLISHED JANUARY 6, 1920.

130,842. CERTAIN NAMED GARMENTS FOR MEN. NATIONAL SHIRT SHOPS, INC., New York, N. Y.
Filed September 26, 1919. Serial No. 123,166. PUBLISHED DECEMBER 30, 1919.

130,843. CERTAIN NAMED PUMPS, CONDENSERS, ENGINES, COMPRESSORS, MACHINES, TONGS, WRENCHES, STOCKS, CUTTERS, AND DIES. NATIONAL TRANSIT PUMP & MACHINE COMPANY, Oil City, Pa.
Filed June 11, 1919. Serial No. 119,488. PUBLISHED DECEMBER 30, 1919.

130,844. ALLOYED PLATINUM. EDMUND R. NEBELING, New York, N. Y.
Filed September 13, 1919. Serial No. 122,652. PUBLISHED JANUARY 6, 1920.

130,845. TOPPING FOR ICE-CREAM SUNDAES AND HOT CHOCOLATE. NEBRASKA FOUNTAIN & SUPPLY CO., Omaha, Nebr.
Filed March 26, 1918. Serial No. 109,812. PUBLISHED JANUARY 20, 1920.

130,846. SUSPENSORY STRAPS. NEW-ENERGY APPLIANCE COMPANY, Boston, Mass.
Filed July 14, 1919. Serial No. 120,550. PUBLISHED DECEMBER 9, 1919.

130,847. IRON CHAINS AND STEEL CHAINS OF VARIOUS KINDS AND CHAIN SLINGS. NEWHALL CHAIN FORGE & IRON CO., New York, N. Y.
Filed July 12, 1919. Serial No. 120,494. PUBLISHED DECEMBER 9, 1919.

130,848. TROLLEYS, CRANES, AND TONGS FOR HANDLING, HOISTING, AND CONVEYING PURPOSES, ALSO PORTABLE ELEVATORS FOR ELEVATING PURPOSES. NEW JERSEY FOUNDRY & MACHINE CO., Garwood, N. J., and New York, N. Y.
Filed October 11, 1918. Serial No. 113,697. PUBLISHED DECEMBER 2, 1919.

130,849. CANNED SALMON. NEW YORK PACIFIC COMMERCIAL CO., INC., San Francisco, Calif.
Filed October 10, 1919. Serial No. 123,655. PUBLISHED DECEMBER 30, 1919.

130,850. GLASS BOTTLES. MAXIM NIVEN, Chicago, Ill.
Filed September 13, 1919. Serial No. 122,651. PUBLISHED DECEMBER 23, 1919.

130,851. COAL. A. S. NOWLIN & CO., Lynchburg, Va.
Filed August 6, 1919. Serial No. 121,314. PUBLISHED JANUARY 6, 1920.

130,852. SYRUPS FOR TABLE PURPOSES. THE NULOMOLINE COMPANY, New York, N. Y.
Filed May 22, 1919. Serial No. 118,790. PUBLISHED JANUARY 27, 1920.

130,853. FRESH ORANGES. BUCKEYE NURSERIES, Tampa, Winterhaven, Lucerne Park, and Howey, Fla.
Filed May 17, 1919. Serial No. 118,588. PUBLISHED JANUARY 27, 1920.

130,854. SPADES, SHOVELS. CHRIS OSMUNDSON, Webster City, Iowa.
Filed June 26, 1919. Serial No. 119,985. PUBLISHED JANUARY 6, 1920.

130,855. COTTON PIECE GOODS. OTIS COMPANY, Ware and Three Rivers, Mass.
Filed November 22, 1918. Serial No. 114,294. PUBLISHED DECEMBER 23, 1919.

130,856. ELECTRIC ADVERTISING-DISPLAY APPARATUS. CLARENCE D. OVERSMITH, Davenport, Iowa.
Filed March 15, 1919. Serial No. 116,608. PUBLISHED NOVEMBER 4, 1919.

130,857. DOLLS. PACIFIC NOVELTY COMPANY, New York, N. Y.
Filed August 27, 1919. Serial No. 122,051. PUBLISHED NOVEMBER 4, 1919.

130,858. MIXTURE WHICH COMPRISES CHILLI PEPPERS, COMINO, OREGANO, GARLIC, AND OTHER SPICES, KNOWN AS CHILLO. LEONARD G. PAGE, St. Joseph, Mo.
Filed November 5, 1918. Serial No. 114,057. PUBLISHED JANUARY 27, 1920.

130,859. [WITHDRAWN.]

130,860. NUT-LOCKS. THE PALNUT CORPORATION, Buffalo, N. Y.
Filed September 20, 1919. Serial No. 122,951. PUBLISHED JANUARY 6, 1920.

130,861. MEDICATED FOOD FOR LIVE STOCK. PARSONS CHEMICAL WORKS, Grand Ledge, Mich.
Filed February 1, 1919. Serial No. 115,576. PUBLISHED JANUARY 6, 1920.

130,862. AUTOMOBILES AND MOTOR-TRUCKS. THE PEERLESS MOTOR CAR COMPANY, Cleveland, Ohio.
Filed November 8, 1918. Serial No. 114,103. PUBLISHED JANUARY 27, 1920.

130,863. SHOE FABRICS CONSISTING OF WATERPROOFED, REINFORCED, AND DECORATED COTTON CLOTH. PETERS MANUFACTURING CO., Boston, Mass.
Filed October 25, 1916. Serial No. 98,890. PUBLISHED JANUARY 27, 1920.

130,864. CASTINGS, FORGINGS, AND ROLLED PRODUCTS OF IRON AND STEEL. PHILADELPHIA ROLL & MACHINE COMPANY, Philadelphia, Pa.
Filed August 12, 1919. Serial No. 121,602. PUBLISHED DECEMBER 9, 1919.

130,865. ALLOY ROLLS FOR ROLLING-MILLS AND THE LIKE. PHILADELPHIA ROLL & MACHINE COMPANY, Philadelphia, Pa.
Filed August 12, 1919. Serial No. 121,603. PUBLISHED DECEMBER 9, 1919.

130,866. CIGARS AND CIGARETTES. WALTER J. PINDER, Orlando, Fla.
Filed June 26, 1919. Serial No. 119,980½. PUBLISHED DECEMBER 23, 1919.

130,867. RUBBER HEELS FOR BOOTS AND SHOES. PLYMOUTH RUBBER COMPANY, Canton, Mass.
Filed November 1, 1919. Serial No. 124,446. PUBLISHED FEBRUARY 10, 1920.

130,868. PHONOGRAPHS, MECHANICAL MOTORS FOR PHONOGRAPHS, RECORD-NEEDLES, TONE-ARMS, SOUND-BOXES, AND WINDING-CRANKS. POLONIA PHONOGRAPH CO., INC., New York, N. Y.
Filed August 7, 1919. Serial No. 121,358. PUBLISHED FEBRUARY 3, 1920.

130,869. BREAD. THE PRATT BREAD COMPANY, Boston, Mass.
Filed August 18, 1919. Serial No. 121,781. PUBLISHED DECEMBER 9, 1919.

130,870. DIMENSION-GAGES AND ATTACHMENTS THEREFOR. PRATT & WHITNEY COMPANY, New York, N. Y.
Filed August 20, 1919. Serial No. 121,843. PUBLISHED DECEMBER 9, 1919.

130,871. MACARONI. PRINCE MACARONI MFG. CO., Boston, Mass.
Filed July 30, 1919. Serial No. 121,125. PUBLISHED DECEMBER 23, 1919.

130,872. FIRE-BRICK. PYRO PRODUCTS COMPANY, Chicago, Ill.
Filed September 13, 1919. Serial No. 122,657. PUBLISHED JANUARY 27, 1920.

130,873. LADIES' BLOUSES AND SHIRTWAISTS. CHARLES RAAB, Philadelphia, Pa.
Filed October 10, 1919. Serial No. 123,662. PUBLISHED FEBRUARY 10, 1920.

130,874. FILING-CARDS. RECORD CARD CO., New York, N. Y.
Filed April 2, 1919. Serial No. 117,125. PUBLISHED JANUARY 20, 1920.

130,875. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. REID BROS., INC., San Francisco, Calif., and Seattle, Wash.
Filed July 25, 1919. Serial No. 120,930. PUBLISHED JANUARY 6, 1920.

130,876. WORK-SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed February 24, 1919. Serial No. 116,109. PUBLISHED JANUARY 6, 1920.

130,877. BUTTER, OLIVE-OIL, RICE, DRIED FRUITS, COFFEE. WM. T. REYNOLDS & CO., Poughkeepsie, N. Y.
Filed October 10, 1918. Serial No. 113,670. PUBLISHED JANUARY 27, 1920.

130,878. BREAD. ABRAHAM REZNIKOVE, Sharon, Pa.
Filed June 4, 1919. Serial No. 119,209. PUBLISHED JANUARY 6, 1920.

130,879. SMOKING AND CHEWING TOBACCO. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C.
Filed September 18, 1919. Serial No. 122,856. PUBLISHED NOVEMBER 25, 1919.

130,880. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER. RICE & HUTCHINS, INCORPORATED, Boston, Mass.
Filed October 4, 1919. Serial No. 123,456. PUBLISHED JANUARY 6, 1920.

130,881. SUSPENDERS, GARTERS, HOSE-SUPPORTERS, ARMBANDS, AND WOVEN ELASTIC BELTS FOR PERSONAL WEAR. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed May 26, 1919. Serial No. 118,935. PUBLISHED JANUARY 27, 1920.

130,882. MEN'S AND WOMEN'S BOOTS AND SHOES COMPOSED IN WHOLE OR IN PART OF LEATHER. RICHARDS & BRENNAN CO., Randolph, Mass.
Filed August 24, 1918. Serial No. 112,862. PUBLISHED FEBRUARY 24, 1920.

130,883. AMUSEMENT DEVICES IN THE NATURE OF A CAROUSEL. HERBERT N. RIDGWAY, Revere, Mass.
Filed April 15, 1919. Serial No. 117,503. PUBLISHED NOVEMBER 25, 1919.

130,884. RAINCOATS. EDWARD RIPLEY & SON LTD., Bradford, England.
Filed October 21, 1919. Serial No. 124,052. PUBLISHED FEBRUARY 10, 1920.

130,885. LADIES' COATS AND LADIES' SUITS. RITTER BROTHERS, New York, N. Y.
Filed April 10, 1919. Serial No. 117,354. PUBLISHED DECEMBER 2, 1919.

130,886. MEN'S HOSIERY. RITTER HOSIERY COMPANY, Fleetwood, Pa.
Filed October 2, 1919. Serial No. 123,365. PUBLISHED JANUARY 6, 1920.

130,887. TANKS AND TANKS FOR HOT WATER, COMMONLY KNOWN AS STAND OR RANGE BOILERS. RIVERSIDE BOILER WORKS, INC., Cambridgeport, Mass.
Filed October 13, 1919. Serial No. 123,755. PUBLISHED JANUARY 6, 1920.

130,888. TANKS AND TANKS FOR HOT WATER, COMMONLY KNOWN AS STAND OR RANGE BOILERS. RIVERSIDE BOILER WORKS, INC., Cambridgeport, Mass.
Filed October 13, 1919. Serial No. 123,756. PUBLISHED JANUARY 6, 1920.

130,889. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS. RAY & FRAZIER, Florence, S. C.
Filed September 23, 1919. Serial No. 123,042. PUBLISHED DECEMBER 30, 1919.

130,890. PRESSED-STEEL DISK WHEELS FOR AUTOMOBILES AND AEROPLANES. THE RELIANCE WHEEL CO., Youngstown, Ohio.
Filed August 6, 1919. Serial No. 121,318. PUBLISHED JANUARY 6, 1920.

130,891. WHEAT-FLOUR. ROANOKE CITY MILLS, Roanoke, Va.
Filed July 25, 1919. Serial No. 120,925. PUBLISHED DECEMBER 2, 1919.

130,892. SELF-RISING WHEAT-FLOUR. ROANOKE CITY MILLS, Roanoke, Va.
Filed July 25, 1919. Serial No. 120,926. PUBLISHED DECEMBER 9, 1919.

130,893. PUZZLES. GEORGE T. ROBINSON, South Portland, Me.
Filed September 29, 1919. Serial No. 123,261. PUBLISHED DECEMBER 9, 1919.

130,894. WHEAT-FLOUR. THE ROBINSON MILLING CO., Salina, Kans.
Filed August 26, 1919. Serial No. 122,026. PUBLISHED DECEMBER 2, 1919.

130,895. WATCHES, CLOCKS, ALARM-CLOCKS. EUGENE ROTHMAN, New York, N. Y., assignor to Pilgrim Clock Company, Inc., New York, N. Y., a Corporation of New York.
Filed February 13, 1919. Serial No. 115,846. PUBLISHED JULY 29, 1919.

130,896. BREAD. THOS. ROULSTON, INC., Brooklyn, N. Y.
Filed January 17, 1919. Serial No. 115,262. PUBLISHED JANUARY 6, 1920.

130,897. CHOCOLATE CANDIES. RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill.
Filed November 6, 1919. Serial No. 124,621. PUBLISHED JANUARY 27, 1920.

130,898. BOOTS AND SHOES MADE OF LEATHER, CANVAS, AND DUCK, FOR MEN, WOMEN, AND CHILDREN. A. RUFF'S SONS, Butler, Pa.
Filed May 31, 1919. Serial No. 119,083. PUBLISHED DECEMBER 2, 1919.

130,899. FRESH GRAPES. LOUIS RUSCONI, Sanger, Calif.
Filed September 12, 1919. Serial No. 122,611. PUBLISHED DECEMBER 2, 1919.

130,900. WATCHES AND CLOCKS. THOS. RUSSELL & SON, Liverpool, England.
Filed April 2, 1919. Serial No. 117,127. PUBLISHED NOVEMBER 18, 1919.

130,901. DOCUMENT-FILES. THE SAFE-CABINET COMPANY, Marietta, Ohio.
Filed February 24, 1919. Serial No. 116,110. PUBLISHED JANUARY 6, 1920.

130,902. CANDIES. SAMOSET CHOCOLATES CO., Boston, Mass.
Filed November 7, 1919. Serial No. 124,670. PUBLISHED JANUARY 27, 1920.

130,903. INFANTS' PANTS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed October 4, 1919. Serial No. 123,460. PUBLISHED JANUARY 6, 1920.

130,904. SANITARY PROTECTORS FOR TELEPHONE-TRANSMITTERS. SANITARY PHONE CORPORATION, New York, N. Y.
Filed April 16, 1919. Serial No. 117,542. PUBLISHED OCTOBER 7, 1919.

130,905. WOODEN TOYS. GENSHIRO SATO, Seattle, Wash.
Filed July 30, 1919. Serial No. 121,130. PUBLISHED DECEMBER 16, 1919.

130,906. INHALERS. WILLIAM H. SCHAEFER, New York, N. Y.
Filed August 8, 1919. Serial No. 121,416. PUBLISHED DECEMBER 2, 1919.

130,907. WOMEN'S HATS, MEN'S HATS, AND CHILDREN'S HATS. S. SCHILLER, New York, N. Y.
Filed August 19, 1919. Serial No. 121,816. PUBLISHED JANUARY 6, 1920.

130,908. LEATHER BOOTS AND SHOES FOR MEN. FRANK M. SCHUMACHER, New Orleans, La.
Filed June 19, 1919. Serial No. 119,777. PUBLISHED JANUARY 6, 1920.

130,909. ELECTRIC WARMING-PADS. SCIENTIFIC PRODUCTS COMPANY, Steubenville, Ohio, and New Cumberland, W. Va.
Filed May 7, 1917. Serial No. 103,616. PUBLISHED NOVEMBER 4, 1919.

130,910. MOVING-PICTURE FILMS. SCREENCRAFT PICTURES, INC., New York, N. Y.
Filed February 19, 1919. Serial No. 116,012. PUBLISHED DECEMBER 23, 1919.

130,911. CANNED FISH—NAMELY, CANNED ALBACORE. L. A. SEA FOOD PACKING CO., East San Pedro, Calif.
Filed October 20, 1919. Serial No. 124,012. PUBLISHED DECEMBER 30, 1919.

130,912. CANNED VEGETABLES. THE SEARS AND NICHOLS CANNING COMPANY, Chillicothe, Ohio.
Filed November 12, 1919. Serial No. 124,816. PUBLISHED JANUARY 27, 1920.

130,913. CONCRETE-MIXERS. GEORGE C. SHELDON, Nehawka, Nebr.
Filed November 6, 1919. Serial No. 124,625. PUBLISHED JANUARY 20, 1920.

130,914. BUCKLES. THE SHOE HARDWARE COMPANY, Waterbury, Conn.
Filed May 26, 1919. Serial No. 118,938. PUBLISHED DECEMBER 9, 1919.

130,915. COFFEE SUBSTITUTE. FOREST F. SHOUP, Brooklyn, N. Y.
Filed October 8, 1919. Serial No. 123,559. PUBLISHED DECEMBER 30, 1919.

130,916. CANDY. SHUTTER-JOHNSON CANDY CO., Chicago, Ill.
Filed October 18, 1919. Serial No. 123,944. PUBLISHED JANUARY 6, 1920.

130,917. SUSPENDERS, GARTERS, ARMBANDS FOR SUPPORTING SLEEVES, AND BELTS FOR SUPPORTING WEARING-APPAREL. JOSEPH SILBERMAN, Baltimore, Md.
Filed April 26, 1919. Serial No. 117,904. PUBLISHED NOVEMBER 11, 1919.

130,918. WATCHES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed April 15, 1919. Serial No. 117,513. PUBLISHED JUNE 10, 1919.

130,919. SAWS. SIMONDS MANUFACTURING COMPANY, Fitchburg, Mass.
Filed September 15, 1919. Serial No. 122,735. PUBLISHED JANUARY 6, 1920.

130,920. DRESSED FURS FOR USE IN APPAREL. PHILIP A. SINGER & BRO., Newark, N. J.
Filed August 15, 1919. Serial No. 121,700. PUBLISHED JANUARY 27, 1920.

130,921. HOSIERY. SAMUEL A. SINGER, Boston, Mass.
Filed July 29, 1918. Serial No. 112,416. PUBLISHED DECEMBER 23, 1919.

130,922. HOSE FOR MEN, WOMEN, AND CHILDREN. SLATEDALE KNITTING MILLS, Harrisburg, Pa.
Filed October 10, 1919. Serial No. 123,668. PUBLISHED JANUARY 13, 1920.

130,923. ROASTED COFFEE IN PACKAGES. SMART & FINAL CO., Santa Ana, Calif.
Filed November 11, 1919. Serial No. 124,766. PUBLISHED JANUARY 27, 1920.

130,924. FRESH POTATOES. LILLIAN W. SMITH, Cape Charles, Va.
Filed May 14, 1919. Serial No. 118,501. PUBLISHED JANUARY 27, 1920.

130,925. TOBACCO-PIPES. SOCIETE ANONYME LA BRUYERE, Paris and St. Claude, France.
Filed April 12, 1919. Serial No. 117,421. PUBLISHED JANUARY 13, 1920.

130,926. SANITARY NAPKINS. SOLACE COMFORT SERVICE CORPORATION, New York, N. Y.
Filed August 25, 1919. Serial No. 122,000. PUBLISHED NOVEMBER 18, 1919.

130,927. BALED COTTON. SOUTHWEST COTTON COMPANY, Phoenix, Ariz.
Filed November 24, 1919. Serial No. 125,257. PUBLISHED DECEMBER 23, 1919.

130,928. AXLES AND SPRINGS FOR VEHICLES. THE STANDARD PARTS COMPANY, Cleveland, Ohio.
Filed July 25, 1919. Serial No. 120,933. PUBLISHED DECEMBER 9, 1919.

130,929. FRESH APPLES. F. STANLEY MILLICHAMP, Wapato, Wash.
Filed October 11, 1919. Serial No. 123,704. PUBLISHED FEBRUARY 3, 1920.

130,930. RYE-FLOUR. STERN MILLING COMPANY, INC., Milwaukee, Wis.
Filed July 28, 1919. Serial No. 121,023. PUBLISHED DECEMBER 30, 1919.

130,931. RYE-FLOUR. STERN MILLING COMPANY, INC., Milwaukee, Wis.
Filed July 28, 1919. Serial No. 121,025. PUBLISHED DECEMBER 30, 1919.

130,932. MOTOR-TRUCKS AND PASSENGER-AUTOMOBILES. STEWART MOTOR CORPORATION, Buffalo, N. Y.
Filed August 23, 1919. Serial No. 121,947. PUBLISHED JANUARY 27, 1920.

130,933. WHEAT-FLOUR. STOKES MILLING CO., Watertown, S. D.
Filed September 6, 1919. Serial No. 122,411. PUBLISHED DECEMBER 2, 1919.

130,934. UNSWEETENED CHOCOLATE, CHOCOLATE, MILK-CHOCOLATE, COCOA, SWEET MILK-CHOCOLATE, MILK-COCOA, AND SWEET CHOCOLATE. STOLLWERCK BROTHERS, INC., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass., a Corporation of Massachusetts.
Filed December 7, 1918. Serial No. 114,548. PUBLISHED FEBRUARY 24, 1920.

130,935. CIGARS. CHARLES F. STOUT, Rice Lake, Wis.
Filed February 20, 1919. Serial No. 116,042. PUBLISHED NOVEMBER 18, 1919.

130,936. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. STROHMEYER & ARPE COMPANY, New York, N. Y.
Filed September 4, 1919. Serial No. 122,317. PUBLISHED JANUARY 27, 1920.

130,937. [WITHDRAWN.]

130,938. CANDIES. SUNNYLAND FRUIT COMPANY, INC., New York, N. Y.
Filed April 22, 1919. Serial No. 117,748. PUBLISHED DECEMBER 30, 1919.

130,939. [WITHDRAWN.]

130,940. HAMS, BACON, AND SHOULDERS. SWIFT AND COMPANY, Chicago, Ill.
Filed October 21, 1918. Serial No. 113,837. PUBLISHED DECEMBER 30, 1919.

130,941. ICE-CREAM. TAMPA DAIRY CO., Tampa, Fla.
Filed September 27, 1919. Serial No. 123,227. PUBLISHED DECEMBER 30, 1919.

130,942. WHEAT-FLOUR. W. P. TANNER GROSS & COMPANY, INC., New York, N. Y.
Filed September 26, 1919. Serial No. 123,184. PUBLISHED FEBRUARY 10, 1920.

130,943. OVERALLS, JUMPERS, AND WORK-SHIRTS. TEXTILE PRODUCTS MANUFACTURING COMPANY, St. Louis, Mo.
Filed June 19, 1919. Serial No. 119,781. PUBLISHED JANUARY 6, 1920.

130,944. NEGLIGÉES. GWLADYS GALE THOMPSON, St. Louis, Mo.
Filed July 29, 1919. Serial No. 121,048. PUBLISHED JANUARY 6, 1920.

130,945. RAW POTATOES. CHARLES S. TIMMONS, Snow Hill, Md.
Filed September 3, 1919. Serial No. 122,269. PUBLISHED DECEMBER 30, 1919.

130,946. FINISHED LEATHER IN THE PIECE. THE TOOMAY COMPANY, Boston, Mass.
Filed November 27, 1918. Serial No. 114,408. PUBLISHED DECEMBER 30, 1919.

130,947. HOSIERY. E. M. TOWNSEND & CO., New York, N. Y.
Filed October 2, 1919. Serial No. 123,373. PUBLISHED FEBRUARY 10, 1920.

130,948. VEILINGS AND NETTINGS IN THE PIECE. TRAUB LEWIS & CO., New York, N. Y.
Filed October 22, 1918. Serial No. 113,852. PUBLISHED JANUARY 13, 1920.

130,949. LAMP-LENSES. BENJAMIN TRIEBER, Chicago, Ill.
Filed February 26, 1919. Serial No. 116,173. PUBLISHED JANUARY 6, 1920.

130,950. METAL SHOE-BUCKLES, COMBS, AND HAIR-PINS WHICH ARE PRODUCED IN ALUMINUM, CELLULOID, AND METALS OTHER THAN THE PRECIOUS METALS. TRIFARI & KRUSSMAN, INC., New York, N. Y.
Filed December 19, 1918. Serial No. 114,722. PUBLISHED JANUARY 6, 1920.

130,951. TOOTH-FILLING. WILLIAM G. TURNER, Brooklyn, N. Y.
Filed August 20, 1919. Serial No. 121,849. PUBLISHED NOVEMBER 25, 1919.

130,952. CIGARETTES. JOHN J. TURNEY, Philadelphia, Pa.
Filed June 6, 1919. Serial No. 119,281. PUBLISHED NOVEMBER 4, 1919.

130,953. WATERPROOF GOODS—NAMELY, COATS, HATS, SUITS, AND LEGGINGS. UNION CITY MANUFACTURING CO., Union City, Tenn.
Filed April 4, 1918. Serial No. 109,994. PUBLISHED FEBRUARY 10, 1920.

130,954. POCKET-CUTLERY, RAZORS, SHEARS, AND BUTCHER-KNIVES. UNION CUTLERY CO., Olean, N. Y.
Filed August 19, 1919. Serial No. 121,818. PUBLISHED JANUARY 6, 1920.

130,955. PLANCHETTE-BOARDS. UNIQUE NOVELTY CO., Los Angeles, Calif., and Independence, Iowa.
Filed July 24, 1919. Serial No. 120,890. PUBLISHED DECEMBER 2, 1919.

130,956. CANDY. UNITED DRUG COMPANY, Boston, Mass.
Filed September 24, 1919. Serial No. 123,088. PUBLISHED DECEMBER 9, 1919.

130,957. ENGINE-STANDS, PORTABLE CRANES, ARBOR-PRESSES, SCREW GARAGE-PRESSES, PORTABLE BENCHES, MACHINES FOR CONTRACTING AND EXPANDING DEMOUNTABLE RIMS. THE UNITED ENGINE & MANUFACTURING CO., Hanover, Pa.
Filed May 27, 1919. Serial No. 118,973. PUBLISHED DECEMBER 2, 1919.

130,958. SHOES MADE OF RUBBER AND CANVAS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed August 21, 1919. Serial No. 121,882. PUBLISHED DECEMBER 2, 1919.

130,959. SNAP-FASTENERS. UNITED TRIMMING CO., New York, N. Y.
Filed July 31, 1919. Serial No. 121,161. PUBLISHED JANUARY 6, 1920.

130,960. ISOLATED ELECTRIC POWER-GENERATING AND LIGHTING PLANTS. UNIVERSAL BATTERY COMPANY, Chicago, Ill.
Filed October 21, 1918. Serial No. 113,842. PUBLISHED DECEMBER 2, 1919.

130,961. UNDERWEAR. UNIVERSAL MERCHANDISE COMPANY, New York, N. Y.
Filed September 18, 1919. Serial No. 122,866. PUBLISHED FEBRUARY 10, 1920.

130,962. HOSIERY. UNIVERSAL MERCHANDISE COMPANY, New York, N. Y.
Filed October 13, 1919. Serial No. 123,765. PUBLISHED FEBRUARY 10, 1920.

130,963. BURS AND BROACHES MADE OF STEEL AND USED WITH DENTAL HANDPIECES FOR PREPARING CAVITIES. USONA DENTAL COMPANY, INC., Ogdensburg, N. Y.
Filed August 7, 1919. Serial No. 121,365. PUBLISHED DECEMBER 9, 1919.

130,964. EVAPORATED MILK. THE VAN CAMP PACKING COMPANY, Indianapolis, Ind.
Filed August 20, 1919. Serial No. 121,851. PUBLISHED DECEMBER 9, 1919.

130,965. PERFUME GLASS VIAL. ANTOINE VERICEL, New York, N. Y.
Filed April 23, 1919. Serial No. 117,786. PUBLISHED DECEMBER 16, 1919.

130,966. SPARKLERS. VICTORY SPARKLER COMPANY, Elkton, Md.
Filed September 15, 1919. Serial No. 122,740. PUBLISHED JANUARY 6, 1920.

130,967. CERTAIN NAMED CLOTHING. VIRGINIA OVERALL & SHIRT CORPORATION, Harrisonburg, Va.
Filed November 17, 1919. Serial No. 125,041. PUBLISHED FEBRUARY 10, 1920.

130,968. SPARK-PLUGS. THE VISIBLE SPARK PLUG COMPANY, Pittsburgh, Pa.
Filed April 26, 1918. Serial No. 110,459. PUBLISHED NOVEMBER 11, 1919.

130,969. CANDIES. VICTOR VIVAUDOU, New York, N. Y.
Filed October 6, 1919. Serial No. 123,507. PUBLISHED JANUARY 6, 1920.

130,970. EGG CARTONS OR CASES. J CLARENCE VOORHORST, New York, N. Y.
Filed April 9, 1919. Serial No. 117,308. PUBLISHED OCTOBER 28, 1919.

130,971. PLACKET-FASTENERS, GLOVE FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS FOR PERSONAL WEAR. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,057. PUBLISHED DECEMBER 30, 1919.

130,972. PLACKET-FASTENERS, GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS FOR PERSONAL WEAR. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,058. PUBLISHED DECEMBER 30, 1919.

130,973. PLACKET-FASTENERS, GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS FOR PERSONAL WEAR. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,060. PUBLISHED DECEMBER 30, 1919.

130,974. PLACKET-FASTENERS, GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS FOR PERSONAL WEAR. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,061. PUBLISHED DECEMBER 30, 1919.

130,975. CERTAIN NAMED NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,062. PUBLISHED JANUARY 27, 1920.

130,976. CERTAIN NAMED NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,074. PUBLISHED DECEMBER 30, 1919.

130,977. CERTAIN NAMED FANCY GOODS AND NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,075. PUBLISHED DECEMBER 30, 1919.

130,978. CERTAIN NAMED NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,079. PUBLISHED DECEMBER 30, 1919.

130,979. CERTAIN NAMED FANCY GOODS AND NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,082. PUBLISHED DECEMBER 30, 1919.

130,980. CERTAIN NAMED NOTIONS. WALDES & Co., Prague, Bohemia.
Filed August 11, 1919. Serial No. 121,559. PUBLISHED JANUARY 20, 1920.

130,981. FRESH ONIONS. WALLA WALLA GARDENER'S ASSOCIATION, Walla Walla, Wash.
Filed September 16, 1919. Serial No. 122,797. PUBLISHED DECEMBER 9, 1919.

130,982. TRACTORS. WALLIS TRACTOR COMPANY, Racine, Wis.
Filed March 27, 1919. Serial No. 116,982. PUBLISHED JANUARY 20, 1920.

130,983. OVERALL-GARMENTS. THE C. E. WARD COMPANY, New London, Ohio.
Filed March 24, 1919. Serial No. 116,866. PUBLISHED DECEMBER 23, 1919.

130,984. AUTOMOBILES. WARD MOTOR VEHICLE COMPANY, Mount Vernon, N. Y.
Filed June 6, 1919. Serial No. 119,283. PUBLISHED JANUARY 20, 1920.

130,985. WATERPROOF DIAPER-COVERS. THE WARNER BROS. CO., Bridgeport, Conn.
Filed July 19, 1919. Serial No. 120,731. PUBLISHED NOVEMBER 18, 1919.

130,986. CANNED SUGAR-CORN. WARRENSBURG CANNING COMPANY, Warrensburg, Ill.
Filed October 2, 1919. Serial No. 123,378. PUBLISHED DECEMBER 30, 1919.

130,987. PIPE-COVERS. THE WATERBURY JEWEL COMPANY, Waterbury, Conn.
Filed July 7, 1919. Serial No. 120,330. PUBLISHED DECEMBER 2, 1919.

130,988. WRITING-PAPER. WESTERN BOTTLE MFG. CO., Chicago, Ill.
Filed August 9, 1919. Serial No. 121,459. PUBLISHED FEBRUARY 3, 1920.

130,989. ELECTRICAL MASSAGING-MACHINES. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed August 13, 1919. Serial No. 121,649. PUBLISHED NOVEMBER 25, 1919.

130,990. MACHINE-BOOKKEEPING PAPER ONLY. BYRON WESTON CO., Dalton, Mass.
Filed February 23, 1917. Serial No. 101,590. PUBLISHED JANUARY 6, 1920.

130,991. CLOCKS AND WATCHES. LOUIS P. WHITE, Philadelphia, Pa.
Filed April 26, 1919. Serial No. 117,913. PUBLISHED AUGUST 26, 1919.

130,992. ICINGS AND TOPPINGS FOR CERTAIN NAMED FOODS. WHITE STOKES CO. INC., Chicago, Ill.
Filed October 17, 1919. Serial No. 123,915. PUBLISHED DECEMBER 30, 1919.

130,993. BUCKLES FOR PERSONAL WEAR AND NOT MADE OF PRECIOUS METAL. WHITEHOUSE BROTHERS, Newark, N. J.
Filed April 11, 1919. Serial No. 117,394. PUBLISHED JANUARY 27, 1920.

130,994. FINE WRITING-PAPER. WHITING PAPER COMPANY, Holyoke, Mass.
Filed April 5, 1919. Serial No. 117,210. PUBLISHED DECEMBER 23, 1919.

130,995. RATCHET-WRENCHES. WILLEY BELL LANE, Chicago, Ill.
Filed August 8, 1919. Serial No. 121,399. PUBLISHED DECEMBER 2, 1919.

130,996. CHOCOLATE CANDY. WILLIAMS CHOCOLATE COMPANY, Scranton, Pa.
Filed November 12, 1919. Serial No. 124,825. PUBLISHED JANUARY 27, 1920.

130,997. COTTON PIECE GOODS. WILTON MANUFACTURING CO., INC., New York, N. Y.
Filed June 18, 1919. Serial No. 119,756. PUBLISHED OCTOBER 28, 1919.

130,998. MACHINERY AND PARTS OF MACHINERY FOR MIXING AND FOR MOLDING CONCRETE AND SUCH LIKE MATERIAL. WINGET LIMITED, Westminster, London, England.
Filed July 15, 1919. Serial No. 120,586. PUBLISHED DECEMBER 30, 1919.

130,999. RAZOR-STROPS. FREDERICK J. WITTL, Milwaukee, Wis.
Filed October 4, 1919. Serial No. 123,467. PUBLISHED DECEMBER 30, 1919.

131,000. LADIES' NIGHTGOWNS, PETTICOATS, DRAWERS, CORSET-COVERS, CHEMISES, AND COMBINATION-SUITS. THE WOLF COMPANY, New York, N. Y.
Filed December 1, 1915. Serial No. 91,089. PUBLISHED JUNE 17, 1919.

131,001. POWDER FOR THE MANUFACTURE OF ICE-CREAM, FRUIT SHERBET, FROZEN PUDDING, AND FROZEN PUNCHES. W. B. WOOD MFG. CO., St. Louis, Mo.
Filed October 15, 1919. Serial No. 123,829. PUBLISHED JANUARY 27, 1920.

131,002. COFFEE. THE WOOLSON SPICE CO., Toledo, Ohio.
Filed October 21, 1919. Serial No. 124,060. PUBLISHED JANUARY 27, 1920.

131,003. PAPER BAGS. WORTENDYKE MANUFACTURING COMPANY, Richmond, Va.
Filed February 7, 1919. Serial No. 115,686. PUBLISHED NOVEMBER 18, 1919.

131,004. CHEWING-GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed November 20, 1919. Serial No. 125,143. PUBLISHED JANUARY 27, 1920.

131,005. CONSTRUCTION HOISTING-TOWERS. J. J. WUELLNER & SON, Alton, Ill.
Filed August 21, 1919. Serial No. 121,883. PUBLISHED DECEMBER 9, 1919.

131,006. CANDY. PHILIP WUNDERLE, Philadelphia, Pa.
Filed October 1, 1919. Serial No. 123,326. PUBLISHED FEBRUARY 10, 1920.

131,007. PRETZELS, CAKES, CRACKERS, AND BISCUITS. YORK PRETZEL BAKERY, York, Pa.
Filed May 14, 1919. Serial No. 118,499. PUBLISHED JANUARY 20, 1920.

131,008. SUSPENDERS AND MEN'S GARTERS. JOSEPH ZIFF, Detroit, Mich.
Filed October 15, 1919. Serial No. 123,830. PUBLISHED JANUARY 27, 1920.

131,009. TOY VEHICLES OF THE COASTER TYPE. HERBERT D. LAFFERTY, Oakland, Calif.
Filed August 20, 1919. Serial No. 121,837. PUBLISHED NOVEMBER 25, 1919.

131,010. SAFETY-PAPER. GEORGE LA MONTE & SON, Nutley, N. J., and New York, N. Y.
Filed December 14, 1917. Serial No. 107,963. PUBLISHED JANUARY 6, 1920.

131,011. MEN'S AND BOYS' CAPS AND MEN'S AND BOYS' STRAW AND FELT HATS. LANGENBERG HAT COMPANY, St. Louis, Mo.
Filed March 14, 1919. Serial No. 116,580. PUBLISHED DECEMBER 2, 1919.

131,012. CANNED SALMON. ABERDEEN PACKING CO., Aberdeen, Wash.
Filed July 1, 1919. Serial No. 120,145. PUBLISHED FEBRUARY 3, 1920.

131,013. HOSE. LEON B. ALLING, Plainfield, N. J.
Filed October 10, 1919. Serial No. 123,598. PUBLISHED DECEMBER 30, 1919.

131,014. WRAPPING-PAPER. THE ALLING AND CORY CO., Rochester, N. Y.
Filed October 23, 1919. Serial No. 124,092. PUBLISHED DECEMBER 23, 1919.

131,015. MAGNETO-ELECTRIC GENERATORS AND PARTS THEREOF. AMERICAN BOSCH MAGNETO CORPORATION, Springfield, Mass.
Filed August 27, 1919. Serial No. 122,036. PUBLISHED DECEMBER 2, 1919.

131,016. AUTOMOBILE-TRUCKS. AMERICAN COMMERCIAL CAR CO., Detroit, Mich.
Filed September 18, 1919. Serial No. 122,871. PUBLISHED JANUARY 27, 1920.

131,017. COMBS FOR DRESSING, ORNAMENTING, AND CLEANING THE HAIR AND FOR BUTTONS FOR WEARING-APPAREL. AMERICAN HARD RUBBER COMPANY, Hempstead, and New York, N. Y.
Filed October 10, 1919. Serial No. 123,601. PUBLISHED JANUARY 27, 1920.

131,018. COMBS FOR DRESSING, ORNAMENTING, AND CLEANING THE HAIR AND FOR BUTTONS FOR WEARING-APPAREL. AMERICAN HARD RUBBER COMPANY, Hempstead, and New York, N. Y.
Filed October 10, 1919. Serial No. 123,600. PUBLISHED JANUARY 27, 1920.

131,019. CORSETS. AMERICAN LADY CORSET COMPANY, Detroit, Mich.
Filed October 10, 1919. Serial No. 123,599. PUBLISHED DECEMBER 30, 1919.

131,020. POPCORN CONFECTIONS. AMERICAN POP CORN WORKS INC., Boston, Mass.
Filed October 30, 1917. Serial No. 107,018. PUBLISHED JANUARY 27, 1920.

131,021. SUGAR FOR USE AS A FOOD. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y.
Filed October 20, 1919. Serial No. 123,950. PUBLISHED DECEMBER 30, 1919.

131,022. COTTON BLANKETS AND FLANNELS IN THE PIECE AND MADE OF COTTON. AMERICAN TRADING COMPANY, New York, N. Y.
Filed September 23, 1919. Serial No. 123,012. PUBLISHED NOVEMBER 18, 1919.

131,023. MOUTHPIECE ATTACHMENTS FOR THE TRANSMITTERS OF TELEPHONES. THE ANTI-BACILLI COMPANY, St. Louis, Mo.
Filed August 25, 1919. Serial No. 121,964. PUBLISHED NOVEMBER 11, 1919.

131,024. ICE-CREAM AND ICES. ARCTIC ICE & COAL COMPANY, Greensboro, N. C.
Filed June 30, 1919. Serial No. 120,083. PUBLISHED JANUARY 6, 1920.

131,025. AUTOMOBILES, AUTOMOBILE RADIATORS, AND WHEEL-HUB CAPS. ARGONNE MOTOR CAR COMPANY, Jersey City, N. J.
Filed October 18, 1919. Serial No. 123,947. PUBLISHED JANUARY 27, 1920.

131,026. SHORTENING AND A FRYING MEDIUM. ASPEGREN & CO., New York, N. Y.
Filed October 1, 1919. Serial No. 123,298. PUBLISHED JANUARY 6, 1920.

131,027. BREAD, CAKES, PIES, AND PASTRY. JUSTIN E. AUBRY, Springfield, Mass.
Filed December 1, 1919. Serial No. 125,451. PUBLISHED FEBRUARY 24, 1920.

131,028. ELECTRIC STERILIZERS. THE AUTOMATIC ELECTRIC STERILIZER CO., Hamilton, Ohio.
Filed July 8, 1919. Serial No. 120,336. PUBLISHED DECEMBER 2, 1919.

131,029. CANDIES. TOD BACKÉ, Brooklyn, N. Y.
Filed April 29, 1919. Serial No. 117,967. PUBLISHED FEBRUARY 3, 1920.

131,030. WATERPROOF DRESSING FOR LEATHER, LEATHER SUBSTITUTES, AND LIKE FABRIC. GEORGE W. BAKER, Dallas, Tex.
Filed July 21, 1919. Serial No. 120,741. PUBLISHED JANUARY 13, 1920.

131,031. BREAD. A. BAKKE, Omaha, Nebr.
Filed October 25, 1919. Serial No. 124,165. PUBLISHED FEBRUARY 17, 1920.

131,032. CLOTHING. SOLOMON BALLIN, New York, N. Y.
Filed May 10, 1918. Serial No. 110,797. PUBLISHED DECEMBER 2, 1919.

131,033. PAJAMAS, NIGHT-SHIRTS, NIGHTGOWNS. SOLOMON BALLIN, New York, N. Y.
Filed May 10, 1918. Serial No. 110,798. PUBLISHED DECEMBER 2, 1919.

131,034. RUBBER HEELS FOR MEN'S, WOMEN'S, AND CHILDREN'S SHOES. BARVA HEEL & TIRE FACTORY INC., Fort Wayne, Ind.
Filed October 2, 1919. Serial No. 123,332. PUBLISHED JANUARY 6, 1920.

131,035. CANDY. BEINHAUER BROS. CANDY CO., New York, N. Y.
Filed May 15, 1919. Serial No. 118,506. PUBLISHED AUGUST 5, 1919.

131,036. CANDY. J. S. BELL CONFECTIONERY COMPANY, Cambridge, Mass.
Filed August 20, 1919. Serial No. 121,830. PUBLISHED DECEMBER 30, 1919.

131,037. SILK PIECE GOODS. BENTLEY & TWOHEY SILK CO., New York, N. Y.
Filed October 2, 1919. Serial No. 123,334. PUBLISHED DECEMBER 16, 1919.

131,038. VARIOUS METALLIC ARTICLES OF UPHOLSTERY AND CABINET HARDWARE. THE BERBECKER & ROWLAND MANUFACTURING COMPANY, Waterville, Conn.
Filed September 15, 1917. Serial No. 106,257. PUBLISHED JANUARY 6, 1920.

131,039. TOILET PREPARATION. THE G. C. BITTNER CO., Toledo, Ohio.
Filed August 16, 1919. Serial No. 121,708. PUBLISHED DECEMBER 2, 1919.

131,040. [WITHDRAWN.]

131,041. CERTAIN NAMED STATIONERY. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed August 27, 1919. Serial No. 122,038. PUBLISHED DECEMBER 23, 1919.

131,042. CLEANING FLUID ADAPTED FOR THE POLISHING OF METAL SURFACES. JAMES F. BLAWN, Brooklyn, N. Y.
Filed October 30, 1919. Serial No. 124,331. PUBLISHED FEBRUARY 3, 1920.

131,043. SUPPORTERS FOR DIAPERS. GERTRUDE R. BONEBRIGHT, Grand Rapids, Mich.
Filed September 18, 1919. Serial No. 122,822. PUBLISHED JANUARY 27, 1920.

131,044. AUTOMOBILE-LENSES. ERNEST R. BRACKETT, Dallas, Tex.
Filed August 26, 1919. Serial No. 122,070. PUBLISHED FEBRUARY 3, 1920.

131,045. GAMES OF JACKSTRAWS. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed August 29, 1919. Serial No. 122,103. PUBLISHED NOVEMBER 25, 1919.

131,046. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial No. 97,176. PUBLISHED DECEMBER 9, 1919.

131,047. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial No. 97,178. PUBLISHED JANUARY 13, 1920.

131,048. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial No. 97,181. PUBLISHED DECEMBER 9, 1919.

131,049. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial No. 97,183. PUBLISHED DECEMBER 9, 1919.

131,050. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial. No. 97,192. PUBLISHED DECEMBER 9, 1919.

131,051. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial No. 97,194. PUBLISHED DECEMBER 9, 1919.

131,052. LAWN-MOWERS. JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 29, 1916. Serial No. 97,195. PUBLISHED DECEMBER 9, 1919.

131,053. CHOCOLATES. THE BRECHT CANDY COMPANY, Denver, Colo.
Filed December 9, 1919. Serial No. 125,742. PUBLISHED FEBRUARY 10, 1920.

131,054. CHOCOLATES. THE BRECHT CANDY COMPANY, Denver, Colo.
Filed December 9, 1919. Serial No. 125,743. PUBLISHED FEBRUARY 10, 1920.

131,055. CHOCOLATES. THE BRECHT CANDY COMPANY, Denver, Colo.
Filed December 9, 1919. Serial No. 125,745. PUBLISHED FEBRUARY 10, 1920.

131,056. CERTAIN NAMED INGOTS, RODS, TUBE-BLANKS, SHEETS, BILLETS, WIRE, AND CASTINGS. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn.
Filed June 12, 1919. Serial No. 119,496. PUBLISHED DECEMBER 2, 1919.

131,057. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. IWAN BURGER, INC., New York, N. Y.
Filed August 22, 1919. Serial No. 121,887. PUBLISHED NOVEMBER 25, 1919.

131,058. HOSIERY FOR WOMEN. JOSEPH F. BYRNE, Omaha, Nebr.
Filed March 6, 1919. Serial No. 116,323. PUBLISHED DECEMBER 2, 1919.

131,059. HOSIERY FOR WOMEN. JOSEPH F. BYRNE, Omaha, Nebr.
Filed March 6, 1919. Serial No. 116,324. PUBLISHED JANUARY 6, 1920.

131,060. CAKES AND CRACKERS. CANDY CAKE CORPORATION, Wilmington, Del., and Newark, N. J.
Filed December 4, 1919. Serial No. 125,567. PUBLISHED FEBRUARY 24, 1920.

131,061. SELF-RISING WHEAT-FLOUR. CARLYLE MILLING COMPANY, Carlyle, Ill.
Filed October 20, 1919. Serial No. 123,966. PUBLISHED FEBRUARY 24, 1920.

131,062. FLAVORING EXTRACTS FOR FOODS. F. B. CHAMBERLAIN COMPANY, St. Louis, Mo.
Filed October 1, 1919. Serial No. 123,305. PUBLISHED DECEMBER 30, 1919.

131,063. ELECTRIC FLATIRONS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed August 29, 1919. Serial No. 122,107. PUBLISHED NOVEMBER 11, 1919.

131,064. ELECTRIC FLATIRONS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed August 29, 1919. Serial No. 122,110. PUBLISHED NOVEMBER 11, 1919.

131,065. ELECTRIC TRACK-DRILLS, ELECTRIC SPINDLE-DRILLS, ELECTRIC GRINDERS, ELECTRIC SPIKE-DRIVERS, ELECTRIC HAMMER-DRILLS, ELECTRIC HOISTS, AND ELECTRIC-CIRCUIT BREAKERS. CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill.
Filed August 18, 1919. Serial No. 121,756. PUBLISHED NOVEMBER 25, 1919.

131,066. HOSIERY. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 24, 1917. Serial No. 108,121. PUBLISHED JANUARY 6, 1920.

131,067. MEN'S AND CHILDREN'S OUTER GARMENTS. COHEN GOLDMAN & CO. INC., New York, N. Y.
Filed September 12, 1919. Serial No. 122,586. PUBLISHED JANUARY 6, 1920.

131,068. DRESS-SHIRTS MADE OF SILK AND COTTON. COMMERCIAL SHIRT COMPANY, New York, N. Y.
Filed December 19, 1917. Serial No. 108,050. PUBLISHED DECEMBER 23, 1919.

131,069. PLEASURE-AUTOMOBILES. COMMONWEALTH MOTORS CO., Chicago, Ill.
Filed November 6, 1919. Serial No. 124,591. PUBLISHED FEBRUARY 3, 1920.

131,070. UNDERWEAR CONSISTING OF WOVEN AND KNITTED UNION-SUITS, SHIRTS, AND DRAWERS. COOPER UNDERWEAR COMPANY, Kenosha, Wis.
Filed October 3, 1918. Serial No. 113,533. PUBLISHED DECEMBER 16, 1919.

131,071. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed October 2, 1919. Serial No. 123,338. PUBLISHED DECEMBER 30, 1919.

131,072. LAUNDRY SOAPS AND SOAP TABLETS AND RUG-CLEANERS. CHARLES C. CUMMINGS, St. Louis, Mo.
Filed June 4, 1919. Serial No. 119,183. PUBLISHED JANUARY 27, 1920.

131,073. NUTS IN THEIR NATURAL FORM. MORTIMER O. DANTZLER, Orangeburg, S. C.
Filed August 12, 1919. Serial No. 121,578. PUBLISHED FEBRUARY 24, 1920.

131,074. LAUNDRY-TABLETS. GEO. M. DAVID, Barre, Vt.
Filed May 9, 1919. Serial No. 118,302. PUBLISHED JANUARY 13, 1920.

131,075. COMPOSITION ROOFING AND COVERING FOR PIPES. DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del.
Filed October 20, 1919. Serial No. 124,081. PUBLISHED FEBRUARY 3, 1920.

131,076. HOOKS AND EYES. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed June 9, 1919. Serial No. 119,339. PUBLISHED FEBRUARY 3, 1920.

131,077. CALIFORNIA HOPS. A/S DET ALMINDELIGE HANDELSKOMPAGNI, Copenhagen, Denmark.
Filed September 3, 1919. Serial No. 122,238. PUBLISHED JANUARY 6, 1920.

131,078. VACUUM-CLEANERS. A/S DET ALMINDELIGE HANDELSKOMPAGNI, Copenhagen, Denmark.
Filed September 3, 1919. Serial No. 122,241. PUBLISHED DECEMBER 9, 1919.

131,079. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,615. PUBLISHED DECEMBER 23, 1919.

131,080. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,616. PUBLISHED DECEMBER 23, 1919.

131,081. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,618. PUBLISHED DECEMBER 23, 1919.

131,082. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,621. PUBLISHED DECEMBER 23, 1919.

131,083. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,623. PUBLISHED DECEMBER 23, 1919.

131,084. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,624. PUBLISHED DECEMBER 23, 1919.

131,085. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,625. PUBLISHED DECEMBER 23, 1919.

131,086. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,627. PUBLISHED DECEMBER 23, 1919.

131,087. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed November 6, 1919. Serial No. 124,595. PUBLISHED JANUARY 6, 1920.

131,088. BRAIDS OF ARTIFICIAL SILK AND SPUN SILK AND PASSEMENTERIE OF ARTIFICIAL SILK AND SPUN SILK. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mülhausen, Germany.
Filed May 7, 1918. Serial No. 110,740. PUBLISHED DECEMBER 2, 1919.

131,089. BRAIDS AND PASSEMENTERIE OF ARTIFICIAL SILK AND SPUN SILK. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mülhausen, Germany.
Filed May 7, 1918. Serial No. 110,739. PUBLISHED DECEMBER 2, 1919.

131,090. BRAIDS OF ARTIFICIAL SILK AND SPUN SILK AND PASSEMENTERIE OF ARTIFICIAL SILK AND SPUN SILK. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mülhausen, Germany.
Filed May 7, 1918. Serial No. 110,741. PUBLISHED DECEMBER 2, 1919.

131,091. BRAIDS OF ARTIFICIAL SILK AND SPUN SILK AND PASSEMENTERIE OF ARTIFICIAL SILK AND SPUN SILK. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mülhausen, Germany.
Filed May 7, 1918. Serial No. 110,737. PUBLISHED DECEMBER 2, 1919.

131,092. BRAIDS OF ARTIFICIAL SILK AND SPUN SILK AND PASSEMENTERIE OF ARTIFICIAL SILK AND SPUN SILK. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mülhausen, Germany.
Filed May 7, 1918. Serial No. 110,738. PUBLISHED DECEMBER 2, 1919.

131,093. WHEAT-FLOUR. DORRIS MILLING COMPANY, Nashville, Tenn.
Filed August 27, 1919. Serial No. 122,071. PUBLISHED FEBRUARY 10, 1920.

131,094. SHOES OF LEATHER AND COMBINATIONS OF LEATHER AND FABRIC. DUDCLIF & COMPANY, Chicago, Ill.
Filed July 23, 1919. Serial No. 120,819. PUBLISHED FEBRUARY 10, 1920.

131,095. ARCHITECTURAL BRONZEWORK FOR BUILDING EXTERIORS AND INTERIORS. DYMALKON METALS CORPORATION, New York, N. Y.
Filed October 29, 1919. Serial No. 124,298. PUBLISHED JANUARY 27, 1920.

131,096. OLIVE-OIL. NICKITAS P. ECONOMOU, New York, N. Y.
Filed October 31, 1919. Serial No. 124,395. PUBLISHED DECEMBER 30, 1919.

131,097. REAR-SIGHT MIRRORS FOR VEHICLES. ELBE MOTOR CO., Los Angeles, Calif.
Filed October 6, 1919. Serial No. 123,477. PUBLISHED JANUARY 27, 1920.

131,098. CERTAIN NAMED CLOTHING FOR BOYS AND CHILDREN. ELDER MANUFACTURING CO., St. Louis, Mo.
Filed August 2, 1919. Serial No. 121,200. PUBLISHED DECEMBER 2, 1919.

131,099. CERTAIN NAMED ELECTRICAL APPARATUS AND SUPPLIES. THE ELECTRIC CONTROLLER & MANUFACTURING COMPANY, Cleveland, Ohio.
Filed October 10, 1919. Serial No. 123,632. PUBLISHED JANUARY 6, 1920.

131,100. PREPARATION FOR CLEANING AND POLISHING METALS AND GLASS. THE ELECTRO SILICON CO., New York, N. Y.
Filed October 4, 1919. Serial No. 123,429. PUBLISHED FEBRUARY 3, 1920.

131,101. PREPARATION FOR CLEANING AND POLISHING METALS AND GLASS. THE ELECTRO SILICON CO., New York, N. Y.
Filed October 9, 1919. Serial No. 123,571. PUBLISHED FEBRUARY 3, 1920.

131,102. MIDDY-BLOUSES AND DRESSES FOR CHILDREN, MISSES, AND LADIES. ENTERPRISE MANUFACTURING COMPANY, Atlanta, Ga.
Filed September 22, 1919. Serial No. 122,980. PUBLISHED JANUARY 6, 1920.

131,103. CANNED FRUITS AND CANNED VEGETABLES. EMERY FOOD CO., Chicago, Ill.
Filed September 22, 1919. Serial No. 122,982. PUBLISHED DECEMBER 9, 1919.

131,104. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed October 31, 1919. Serial No. 124,396. PUBLISHED JANUARY 20, 1920.

131,105. WORSTED-WINDERS. E. B. ESTES & SONS, New York, N. Y.
Filed August 7, 1918. Serial No. 112,601. PUBLISHED DECEMBER 2, 1919.

131,106. CANDY. EVAGGELOS KAPPAS, St. Louis, Mo.
Filed November 28, 1919. Serial No. 125,388. PUBLISHED FEBRUARY 10, 1920.

131,107. LEATHER. JOHN R. EVANS & COMPANY, Philadelphia, Pa.
Filed November 22, 1919. Serial No. 125,175. PUBLISHED JANUARY 27, 1920.

131,108. BREAD. EVERETT, AUGHENBAUGH & CO., Waseca, Minn.
Filed September 22, 1919. Serial No. 122,981. PUBLISHED DECEMBER 9, 1919.

131,109. ANTIFRICTION-BEARINGS, ANTIFRICTION-BEARING HANGER-BOXES, ANTIFRICTION BALLS AND ROLLERS, CAGES, SEPARATORS, AND RETAINERS FOR ANTIFRICTION DEVICES. THE FAFNIR BEARING CO., New Britain, Conn.
Filed August 15, 1919. Serial No. 121,692. PUBLISHED NOVEMBER 25, 1919.

131,110. RADIATOR-VALVES, RADIATOR CHECK-VALVES. CONRAD FEUSER, Bloomfield, N. J.
Filed August 6, 1919. Serial No. 121,300. PUBLISHED DECEMBER 2, 1919.

131,111. LEATHER SOLES AND HEELS. C. G. FLECKENSTEIN CO., Muskegon, Mich.
Filed September 25, 1918. Serial No. 113,353. PUBLISHED JANUARY 6, 1920.

131,112. MEN'S LEATHER BOOTS AND SHOES. FOOT, SCHULZE & CO., St. Paul, Minn.
Filed July 26, 1919. Serial No. 120,955. PUBLISHED FEBRUARY 24, 1920.

131,113. KNOCKDOWN BUILDINGS. WILLIAM A. FORTNER, Cisco, Tex.
Filed November 18, 1919. Serial No. 125,050. PUBLISHED FEBRUARY 3, 1920.

131,114. CANDIES. FUERST & KRAEMER LTD., New Orleans, La.
Filed July 31, 1919. Serial No. 121,142. PUBLISHED NOVEMBER 4, 1919.

131,115. SHELTERING-TROUGHS FOR PROTECTING COILS ON AUTOMOBILE-DASHES. CHARLES ARTHUR GAREAU, Detroit, Mich.
Filed March 3, 1919. Serial No. 116,259. PUBLISHED DECEMBER 2, 1919.

131,116. HEAT AND COLD INSULATION MATERIALS IN WHICH MINERAL WOOL IS THE MAIN INGREDIENT, IN SHEET, GRANULATED, WOOL, AND BRICK FORMS. GENERAL INSULATING & MANUFACTURING COMPANY, St. Louis, Mo., and Alexandria, Ind.
Filed March 10, 1919. Serial No. 116,440. PUBLISHED DECEMBER 2, 1919.

131,117. PERMANENT TOPS FOR VEHICLES. THE GENERAL TOP COMPANY, Cleveland, Ohio.
Filed November 1, 1919. Serial No. 124,439. PUBLISHED FEBRUARY 3, 1920.

131,118. CANDY. JOHN O. GILBERT, Jackson, Mich.
Filed October 30, 1919. Serial No. 124,341. PUBLISHED DECEMBER 30, 1919.

131,119. WRITING-PAPER. GILBERT PAPER COMPANY, Menasha, Wis.
Filed October 2, 1919. Serial No. 123,347. PUBLISHED DECEMBER 23, 1919.

131,120. BOND-PAPER FOR WRITING AND PRINTING PURPOSES. GILBERT PAPER COMPANY, Menasha, Wis.
Filed October 2, 1919. Serial No. 123,348. PUBLISHED DECEMBER 23, 1919.

131,121. WRITING-PAPER. GILBERT PAPER COMPANY, Menasha, Wis.
Filed October 2, 1919. Serial No. 123,349. PUBLISHED DECEMBER 23, 1919.

131,122. CHILDREN'S HOSIERY. JOHN M. GIVEN, INC., New York, N. Y.; Chicago, Ill., and Pittsburgh, Pa.
Filed June 11, 1918. Serial No. 111,494. PUBLISHED DECEMBER 2, 1919.

131,123. WHEAT-FLOUR. GLADNEY MILLING COMPANY, Sherman, Tex.
Filed October 20, 1919. Serial No. 123,980. PUBLISHED DECEMBER 30, 1919.

131,124. MEN'S AND YOUTHS' SUITS AND OVERCOATS. WM. P. GOLDMAN & BROS. INC., New York, N. Y.
Filed September 20, 1919. Serial No. 122,941. PUBLISHED FEBRUARY 10, 1920.

131,125. [WITHDRAWN.]

131,126. STRAIGHT SPAGHETTI AND STRAIGHT AND ELBOW MACARONI. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,634. PUBLISHED JANUARY 6, 1920.

131,127. STOVE-POLISH. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,635. PUBLISHED FEBRUARY 3, 1920.

131,128. TOILET AND LAUNDRY SOAP. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 23, 1919. Serial No. 124,103. PUBLISHED FEBRUARY 3, 1920.

131,129. PIECE GOODS COMPOSED OF A WORSTED WARP AND A CASHMERE FILLED CLOTH. HAAS BROTHERS FABRICS' CORPORATION, New York, N. Y.
Filed October 8, 1919. Serial No. 123,542. PUBLISHED JANUARY 13, 1920.

131,130. PIECE GOODS COMPOSED OF A SILK WARP AND A WORSTED FILLED CLOTH. HAAS BROTHERS FABRICS' CORPORATION, New York, N. Y.
Filed October 8, 1919. Serial No. 123,544. PUBLISHED JANUARY 13, 1920.

131,131. CERTAIN NAMED CANNED FRUITS, CERTAIN NAMED CANNED VEGETABLES, AND CERTAIN NAMED CANNED FISH. THE HALE COMPANY, San Francisco, Calif.
Filed October 10, 1919. Serial No. 123,642. PUBLISHED JANUARY 6, 1920.

131,132. BREAD, CAKES, AND PASTRY. HALLER BAKING COMPANY, Pittsburgh, Pa.
Filed September 24, 1919. Serial No. 123,054. PUBLISHED JANUARY 6, 1920.

131,133. CERTAIN NAMED TOOLS. THE HARROLD TOOL & FORGE CO., Columbiana, Ohio.
Filed January 24, 1919. Serial No. 115,403. PUBLISHED JANUARY 6, 1920.

131,134. MEN'S SUITS. HAYS, LEVI & CO., New York, N. Y.
Filed August 15, 1919. Serial No. 121,693. PUBLISHED FEBRUARY 10, 1920.

131,135. MALLOW TOPPING FOR ICE-CREAM, DESSERTS, SOFT DRINKS, AND SALADS. FABIAN HEDGES INC., New York, N. Y.
Filed August 13, 1919. Serial No. 121,624. PUBLISHED DECEMBER 2, 1919.

131,136. FOODS FOR INFANTS, INVALIDS, AND CONVALESCENTS. THE HENSCH FOOD COMPANY, Cleveland, Ohio.
Filed October 31, 1919. Serial No. 124,400. PUBLISHED JANUARY 6, 1920.

131,137. BREAD. FREDERICK A. HEROUX, Oakland, Calif.
Filed September 27, 1919. Serial No. 123,208. PUBLISHED JANUARY 6, 1920.

131,138. SELF-RISING WHEAT-FLOUR. HEZEL MILLING COMPANY, East St. Louis, Ill.
Filed November 12, 1919. Serial No. 124,793. PUBLISHED JANUARY 13, 1920.

131,139. STOVE-POLISH. ALBERT HINKLEY, Newark, N. J.
Filed August 6, 1919. Serial No. 121,302. PUBLISHED JANUARY 13, 1920.

131,140. CERTAIN NAMED GARMENTS FOR MEN AND BOYS. HIRSCH, FRIEDMAN CO., Chicago, Ill.
Filed March 29, 1919. Serial No. 117,011. PUBLISHED JANUARY 20, 1920.

131,141. WHEAT-FLOUR. THE HORNOR-GAYLORD COMPANY, Clarksburg, W. Va.
Filed October 7, 1919. Serial No. 123,516. PUBLISHED DECEMBER 30, 1919.

131,142. CORSETS. INTERNATIONAL CORSET COMPANY, Aurora, Ill.
Filed June 11, 1919. Serial No. 119,477. PUBLISHED FEBRUARY 10, 1920.

131,143. JOB AND DELIVERY TAGS. THE ALBERT JACOBS COMPANY, New York, N. Y.
Filed November 7, 1919. Serial No. 124,651. PUBLISHED JANUARY 6, 1920.

131,144. LEATHER, RUBBER, AND FABRIC SHOES FOR MEN, WOMEN, AND CHILDREN. JOHNSON, STEPHENS & SHINKLE SHOE COMPANY, St. Louis, Mo.
Filed July 14, 1919. Serial No. 120,538. PUBLISHED FEBRUARY 10, 1920.

131,145. CHILDREN'S AND MISSES' LEATHER, CANVAS, AND FELT SHOES AND SLIPPERS. THE JUST SHOE COMPANY, INC., West Alhambra, Calif.
Filed March 17, 1919. Serial No. 116,656. PUBLISHED DECEMBER 2, 1919.

131,146. FOOD PASTE TO BE USED IN A MANNER SIMILAR TO BUTTER. GABRIEL KAHAN, Lowell, Mass.
Filed November 7, 1919. Serial No. 124,654. PUBLISHED FEBRUARY 10, 1920.

131,147. BOOTS AND SHOES MADE OF LEATHER FOR MISSES AND CHILDREN. WM. KAUT FOOTWEAR COMPANY, Carthage, Mo.
Filed July 23, 1919. Serial No. 120,831. PUBLISHED JANUARY 6, 1920.

131,148. LEATHER BOOTS, SHOES, SLIPPERS, AND SANDALS. WM. KAUT FOOTWEAR CO., Carthage, Mo.
Filed September 10, 1919. Serial No. 122,540. PUBLISHED JANUARY 6, 1920.

131,149. SHORT NARROW STRIPS OF FABRIC FOR USE AS TRIMMINGS FOR UNDERWEAR. JULIUS KAYSER & CO., New York, N. Y.
Filed July 31, 1919. Serial No. 121,146. PUBLISHED JANUARY 27, 1920.

131,150. FIELD AND GRASS SEEDS. KELLOGG SEED CO., Milwaukee, Wis.
Filed October 27, 1919. Serial No. 124,219. PUBLISHED FEBRUARY 3, 1920.

131,151. AUTOMOBILE-TRUCKS. THE KELLY-SPRINGFIELD MOTOR TRUCK COMPANY, Springfield, Ohio.
Filed October 13, 1919. Serial No. 123,743. PUBLISHED FEBRUARY 3, 1920.

131,152. AUTOMOBILE-TRUCKS. THE KELLY-SPRINGFIELD MOTOR TRUCK COMPANY, Springfield, Ohio.
Filed October 13, 1919. Serial No. 123,744. PUBLISHED FEBRUARY 3, 1920.

131,153. CAST-METAL VEHICLE-WHEELS. KENOSHA WHEEL & AXLE COMPANY, Kenosha, Wis.
Filed October 1, 1919. Serial No. 123,316. PUBLISHED JANUARY 6, 1920.

131,154. EVAPORATED MILK. KINNEY BROS. INC., Binghamton, N. Y.
Filed December 10, 1919. Serial No. 125,780. PUBLISHED FEBRUARY 10, 1920.

131,155. LANTERNS. JOSEPH N. KLEMA, Austin, Minn.
Filed October 4, 1919. Serial No. 123,437. PUBLISHED JANUARY 27, 1920.

131,156. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed May 26, 1919. Serial No. 118,915. PUBLISHED NOVEMBER 25, 1919.

131,157. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed May 26, 1919. Serial No. 118,916. PUBLISHED NOVEMBER 25, 1919.

131,158. WATCHES. KNICKERBOCKER WATCH CO., New York, N. Y.
Filed May 26, 1919. Serial No. 118,917. PUBLISHED NOVEMBER 25, 1919.

131,159. COTTON PIECE GOODS. CHAS. KOHLMAN CO. INC., New York, N. Y.
Filed October 23, 1919. Serial No. 124,115. PUBLISHED JANUARY 13, 1920.

131,160. OVERALLS AND SHOP-COATS. LOUIS KOHN, Bradford, Pa.
Filed June 12, 1918. Serial No. 111,522. PUBLISHED NOVEMBER 25, 1919.

131,161. FLAVORING EXTRACT FOR FOODS. H. KOHNSTAMM & CO., New York, N. Y.
Filed October 30, 1919. Serial No. 124,347. PUBLISHED DECEMBER 30, 1919.

131,162. HIDES AND LEATHER. KULLMAN, SALZ & CO., San Francisco, Calif.
Filed November 28, 1919. Serial No. 125,387. PUBLISHED JANUARY 27, 1920.

131,163. PREPARATION USED FOR CLEANSING PURPOSES. LAUNDRY SUPPLIES CORPORATION, Richmond, Va.
Filed August 15, 1919. Serial No. 121,694. PUBLISHED JANUARY 13, 1920.

131,164. LADIES' SILK AND COTTON WOVEN UNDERWEAR. LEHMAN BROTHERS INC., Easton, Pa.
Filed July 15, 1919. Serial No. 120,571. PUBLISHED NOVEMBER 18, 1919.

131,165. MEN'S AND BOYS' SUITS, COATS, VESTS, TROUSERS, AND OVERCOATS. LEOPOLD SOLOMON & EISENDRATH, Chicago, Ill.
Filed November 21, 1918. Serial No. 114,270. PUBLISHED JANUARY 6, 1920.

131,166. BOYS' SUITS AND OVERCOATS. B. H. LEVY BRO. & CO., Savannah, Ga.
Filed July 7, 1919. Serial No. 120,313. PUBLISHED FEBRUARY 10, 1920.

131,167. DRESSES FOR WOMEN, MISSES, AND CHILDREN. LEWIS LEVY, Philadelphia, Pa.
Filed September 16, 1919. Serial No. 122,778. PUBLISHED JANUARY 6, 1920.

131,168. TABLE OIL-CLOTH, SHELF OIL-CLOTH, ENAMELED CLOTH. LEVY & FISH, New York, N. Y.
Filed June 28, 1919. Serial No. 120,060. PUBLISHED FEBRUARY 10, 1920.

131,169. CHAMOIS-SKINS AND SPONGES. DAVID J. LINDNER, New York, N. Y.
Filed December 4, 1919. Serial No. 125,573. PUBLISHED JANUARY 27, 1920.

131,170. CORSETS, CORSET-WAISTS, AND BRASSIÈRES. LINEHAN-CONOVER COMPANY, Worcester, Mass.
Filed September 27, 1918. Serial No. 113,454. PUBLISHED JANUARY 6, 1920.

131,171. SUSPENDERS, WAIST-BELTS FOR SUPPORTING WEARING-APPAREL, GARTERS, ARMBANDS, AND CHILDREN'S SUPPORTERS. LION MANUFACTURING COMPANY, Omaha, Nebr.
Filed May 13, 1919. Serial No. 118,441. PUBLISHED JANUARY 27, 1920.

131,172. BOOTS, SHOES, LEGGINGS, OR PUTTEES. A. E. LITTLE COMPANY, Lynn, Mass.
Filed September 21, 1918. Serial No. 113,294. PUBLISHED DECEMBER 23, 1919.

131,173. ROPE-CLAMP. REINHOLD LOOS, Newark, N. J.
Filed August 2, 1919. Serial No. 121,208. PUBLISHED DECEMBER 2, 1919.

131,174. CANNED FISH—NAMELY, CANNED TUNA FISH. L. A. SEA FOOD PACKING CO., East San Pedro, Calif.
Filed October 20, 1919. Serial No. 124,011. PUBLISHED DECEMBER 30, 1919.

131,175. CANDY. THE WALTER M. LOWNEY COMPANY, Boston, Mass.
Filed December 10, 1919. Serial No. 125,782. PUBLISHED FEBRUARY 10, 1920.

131,176. CANDY. THE WALTER M. LOWNEY COMPANY, Boston, Mass.
Filed December 10, 1919. Serial No. 125,784. PUBLISHED FEBRUARY 10, 1920.

131,177. CANDY. THE WALTER M. LOWNEY COMPANY, Boston, Mass.
Filed December 10, 1919. Serial No. 125,785. PUBLISHED FEBRUARY 10, 1920.

131,178. CERTAIN NAMED MACHINERY. LUMMUS COTTON GIN COMPANY, Columbus, Ga.
Filed June 20, 1919. Serial No. 119,807. PUBLISHED DECEMBER 9, 1919.

131,179. CLEANING COMPOUND, A PREPARATION FOR REMOVING CARBON, ACID, GREASE, AND DIRT FROM THE HANDS. NORMAN S. MCINTOSH, Detroit, Mich.
Filed July 3, 1919. Serial No. 120,253. PUBLISHED JANUARY 13, 1920.

131,180. SILK AND SATIN PIECE GOODS. MCLANE SILK COMPANY, Turners Falls, Mass.
Filed September 22, 1919. Serial No. 122,993. PUBLISHED JANUARY 13, 1920.

131,181. CHARCOAL. R. MACKELLAR'S SONS CO., Peekskill, N. Y.
Filed November 15, 1919. Serial No. 124,945. PUBLISHED FEBRUARY 3, 1920.

131,182. IMITATION LEATHER. THE MARATHON TIRE AND RUBBER CO., Cuyahoga Falls, Ohio.
Filed November 17, 1919. Serial No. 125,001. PUBLISHED JANUARY 27, 1920.

131,183. MALT-SYRUP FOR BAKING PURPOSES. OSCAR E. MAURER, San Francisco, Calif.
Filed October 10, 1919. Serial No. 123,651. PUBLISHED FEBRUARY 10, 1920.

131,184. CANDY. THEODORE MARQUETAND, Philadelphia, Pa.
Filed December 2, 1919. Serial No. 125,541. PUBLISHED FEBRUARY 10, 1920.

131,185. HAIR-CURLER. LOUIS E. MARX, Huntington, Ind.
Filed November 22, 1919. Serial No. 125,192. PUBLISHED FEBRUARY 3, 1920.

131,186. ARTICLES ON CURRENT EVENTS FOR CHILDREN PRINTED FROM TIME TO TIME. M-C SYNDICATE, Philadelphia, Pa.
Filed October 31, 1919. Serial No. 124,414. PUBLISHED JANUARY 27, 1920.

131,187. FISH, FRESH, CANNED, OR CURED, PARTICULARLY SHAD-CUTLETS AND SHAD-ROE IN CANS. NELLIE E. MEGLER, Brookfield, Wash.
Filed July 2, 1919. Serial No. 120,215. PUBLISHED DECEMBER 9, 1919.

131,188. WHEAT-FLOUR. MERO MILLS, Nashville, Tenn.
Filed December 8, 1919. Serial No. 125,718. PUBLISHED FEBRUARY 24, 1920.

131,189. CANDY. A. B. MEWHINNEY CO., Terre Haute, Ind.
Filed October 3, 1919. Serial No. 123,389. PUBLISHED DECEMBER 30, 1919.

131,190. CHOCOLATE CANDIES. A. B. MEWHINNEY CO. INC., Terre Haute, Ind.
Filed October 6, 1919. Serial No. 123,491. PUBLISHED FEBRUARY 10, 1920.

131,191. PORCELAIN-ENAMEL-COATED SHEETS AND PLATES TO BE FITTED TOGETHER SUBSEQUENTLY FOR MANUFACTURING FINISHED ARTICLES — NAMELY, STOVES. THE MINNESOTA STOVE CO., Minneapolis, Minn.
Filed May 24, 1918. Serial No. 111,181. PUBLISHED DECEMBER 2, 1919.

131,192. BRUSHES FOR DYNAMOS AND ELECTRIC MOTORS. THE MORGAN CRUCIBLE COMPY, LD., Battersea, London, England.
Filed August 13, 1919. Serial No. 121,637. PUBLISHED NOVEMBER 18, 1919.

131,193. PICKLED OLIVES. MT. IDA PACKING COMPANY, Oroville, Calif.
Filed December 4, 1919. Serial No. 125,577. PUBLISHED FEBRUARY 10, 1920.

131,194. WHEAT-FLOUR. NASHVILLE ROLLER MILLS, Nashville, Tenn.
Filed October 14, 1919. Serial No. 123,776. PUBLISHED DECEMBER 30, 1919.

131,195. COTTON BLANKETS. NASHUA MANUFG. COMPANY, Nashua, N. H.
Filed October 28, 1919. Serial No. 124,280. PUBLISHED JANUARY 20, 1920.

131,196. COTTON BLANKETS. NASHUA MANUFG. COMPANY, Nashua, N. H.
Filed October 28, 1919. Serial No. 124,282. PUBLISHED JANUARY 20, 1920.

131,197. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed October 24, 1919. Serial No. 124,148. PUBLISHED JANUARY 6, 1920.

131,198. HOSIERY FOR MEN, WOMEN, AND CHILDREN. NATIONAL MILLS, Spartanburg, S. C.
Filed May 9, 1919. Serial No. 118,323. PUBLISHED JANUARY 6, 1920.

131,199. PILLOW-CASES. NAUMKEAG STEAM COTTON CO., Salem, Mass.
Filed September 25, 1919. Serial No. 123,133. PUBLISHED JANUARY 13, 1920.

131,200. PLANT-TONIC. NEVADA CHEMICAL COMPANY, Tonopah, Nev.
Filed September 13, 1919. Serial No. 122,649. PUBLISHED NOVEMBER 18, 1919.

131,201. SHOE-POLISHING PASTE. WILLIAM NEWMAN, Alexandria, Va.
Filed September 24, 1919. Serial No. 123,076. PUBLISHED DECEMBER 30, 1919.

131,202. CONDENSED MILK. NOBLE DAIRY FARMS, INC., New York, N. Y.
Filed September 29, 1919. Serial No. 123,253. PUBLISHED DECEMBER 30, 1919.

131,203. SUSPENDERS AND GARTERS. NU-WAY STRECH SUSPENDER COMPANY, Adrian, Mich.
Filed September 18, 1919. Serial No. 122,872. PUBLISHED JANUARY 27, 1920.

131,204. FLAT-WARE PLATED WITH PRECIOUS METAL. ONEIDA COMMUNITY LIMITED, Oneida, N. Y.
Filed August 25, 1919. Serial No. 121,991. PUBLISHED FEBRUARY 3, 1920.

131,205. COTTON PIECE AND COTTON DRESS GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed October 4, 1919. Serial No. 123,451. PUBLISHED JANUARY 13, 1920.

131,206. HAIR-WAVERS. PARISIAN MFG COMPANY, Philadelphia, Pa.
Filed October 2, 1919. Serial No. 123,363. PUBLISHED JANUARY 6, 1920.

131,207. SOAP. PEERLESS MINERAL PRODUCTS CO. INC., New York, N. Y.
Filed September 12, 1919. Serial No. 122,610. PUBLISHED JANUARY 13, 1920.

131,208. SOAP. PEET BROS. MANUFACTURING COMPANY, Kansas City, Kans.
Filed August 18, 1919. Serial No. 121,780. PUBLISHED JANUARY 13, 1920.

131,209. WORK-CLOTHING FOR MEN AND BOYS—NAMELY, OVERALLS, TROUSERS, JUMPERS, COATS, AND SHIRTS. PERKINS DRY GOODS COMPANY, Dallas, Tex.
Filed July 16, 1919. Serial No. 120,618. PUBLISHED FEBRUARY 24, 1920.

131,210. BAKERS' SYRUP AND CONFECTIONERS' SYRUP COMPOSED IN PART OF EXTRACT OF MALT. PHILADELPHIA MALT EXTRACT COMPANY, Philadelphia, Pa.
Filed December 30, 1918. Serial No. 114,886. PUBLISHED FEBRUARY 3, 1920.

131,211. KNITTED UNDERSHIRTS AND UNION-SUITS FOR WOMEN. PHILLIPS-DOSCHER CORPORATION, New York, N. Y.
Filed September 18, 1919. Serial No. 122,852. PUBLISHED FEBRUARY 10, 1920.

131,212. PASSENGER-AUTOMOBILES AND MOTOR-TRUCKS. PIEDMONT MOTOR CAR COMPANY, INC., Lynchburg, Va.
Filed September 30, 1919. Serial No. 123,291. PUBLISHED JANUARY 27, 1920.

131,213. CERTAIN NAMED TOOLS. PITARD'S, INC., New Orleans, La.
Filed October 8, 1918. Serial No. 113,624½. PUBLISHED DECEMBER 23, 1919.

131,214. FLOUR. THE R. C. POAGE MILLING CO., Ashland, Ky.
Filed October 27, 1919. Serial No. 124,234. PUBLISHED DECEMBER 30, 1919.

131,215. GAS-ENGINES. THE POWER MANUFACTURING COMPANY, Marion, Ohio.
Filed August 14, 1919. Serial No. 121,679. PUBLISHED NOVEMBER 25, 1919.

131,216. REFINED CANDLE-TAR FOR ROOFING COMPOSITIONS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed September 12, 1919. Serial No. 122,608. PUBLISHED FEBRUARY 3, 1920.

131,217. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. RETAIL GROCERS SYNDICATE, INC., Worcester, Mass.
Filed September 26, 1919. Serial No. 123,170. PUBLISHED DECEMBER 9, 1919.

131,218. EGGS. LEON RENAKER, Winchester, Ky.
Filed October 13, 1919. Serial No. 123,754. PUBLISHED DECEMBER 30, 1919.

131,219. COLLARS AND CUFFS AND BOSOMS. REVERSIBLE COLLAR COMPANY, Boston and Cambridge, Mass.
Filed September 3, 1919. Serial No. 122,261. PUBLISHED FEBRUARY 10, 1920.

131,220. BEDSPREADS, SHEETS, PILLOW-CASES, AND SHEETING. EDWIN K. RHOADS, Philadelphia, Pa.
Filed October 13, 1919. Serial No. 123,759. PUBLISHED JANUARY 13, 1920.

131,221. COTTON DRILLS IN THE PIECE. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed September 22, 1919. Serial No. 122,998. PUBLISHED JANUARY 13, 1920.

131,222. SILK THREADS, COTTON YARNS, COTTON THREADS, MERCERIZED AND UNMERCERIZED, FOR EMBROIDERY, CROCHET, KNITTING, AND SEWING. RICHARDSON SILK CO., Chicago, Ill.
Filed October 3, 1919. Serial No. 123,400. PUBLISHED FEBRUARY 3, 1920.

131,223. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed May 7, 1919. Serial No. 118,240. PUBLISHED DECEMBER 2, 1919.

131,224. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed May 8, 1919. Serial No. 118,277. PUBLISHED DECEMBER 2, 1919.

131,225. COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed May 7, 1919. Serial No. 118,241. PUBLISHED DECEMBER 9, 1919.

131,226. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed May 8, 1919. Serial No. 118,278. PUBLISHED DECEMBER 2, 1919.

131,227. WHEAT-FLOUR. JACOB ROSENSTEIN, New York, N. Y.
Filed October 20, 1919. Serial No. 124,007. PUBLISHED DECEMBER 30, 1919.

131,228. ARTIFICIAL-SILK FABRICS. ROYAL EMBROIDERY WORKS, NADAY & FLEISCHER, New York, N. Y.
Filed March 31, 1919. Serial No. 117,062. PUBLISHED NOVEMBER 18, 1919.

131,229. MOTOR-TRUCKS. FRANK W. RUGGLES, Alma, Mich.
Filed August 4, 1919. Serial No. 121,261. PUBLISHED DECEMBER 2, 1919.

131,230. PEANUT-BUTTER, VINEGAR, PREPARED MUSTARD, RICE, TEA, FOOD-FLAVORING EXTRACTS—NAMELY, LEMON—AND SPICES—NAMELY, GINGER. THE RUSSELL JOBBERS' MILLS, Oklahoma, Okla.
Filed May 19, 1919. Serial No. 118,704. PUBLISHED FEBRUARY 10, 1920.

131,231. VALVE-GRINDING COMPOUNDS. S. & P. MANUFACTURING CO. INC., New York, N. Y.
Filed September 10, 1919. Serial No. 122,557. PUBLISHED JANUARY 13, 1920.

131,232. MARCEL AND WATER WAVER. SAMSTAG & HILDER BROS., New York, N. Y.
Filed October 4, 1919. Serial No. 123,459. PUBLISHED JANUARY 6, 1920.

131,233. COATS. PETER SANGOFF, Worcester, Mass.
Filed May 10, 1919. Serial No. 118,354. PUBLISHED JANUARY 6, 1920.

131,234. SOAP. THE SCHOFIELD OIL CO., INC., New York, N. Y.
Filed September 23, 1919. Serial No. 123,043. PUBLISHED JANUARY 13, 1920.

131,235. CANDY. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 20, 1919. Serial No. 122,952. PUBLISHED DECEMBER 9, 1919.

131,236. CANDY. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 20, 1919. Serial No. 122,953. PUBLISHED DECEMBER 9, 1919.

131,237. DRY CLEANER FOR FABRICS AND LEATHER. ABRAHAM SELZ, Chicago, Ill.
Filed October 10, 1919. Serial No. 123,666. PUBLISHED DECEMBER 30, 1919.

131,238. BOOTS OR SHOES MADE WHOLLY OR IN PART OF LEATHER, RUBBER, OR TEXTILE MATERIAL. SLATER & MORRILL, INCORPORATED, South Braintree, Mass.
Filed April 8, 1919. Serial No. 117,282. PUBLISHED DECEMBER 30, 1919.

131,239. SOAPS FOR HYGIENIC AND MEDICAL PURPOSES. SOCIETÀ INDUSTRIE CHIMICHE ITTIOLO, Naples, Italy.
Filed July 10, 1919. Serial No. 120,440. PUBLISHED JANUARY 13, 1920.

131,240. WHEAT-FLOUR. SPARKS MILLING COMPANY, Alton, Ill., and Terre Haute, Ind.
Filed October 2, 1919. Serial No. 123,371. PUBLISHED FEBRUARY 10, 1920.

131,241. KNITTED HOSIERY, UNDERWEAR, AND SWEATERS FOR MEN, WOMEN, AND CHILDREN AND WORK-SHIRTS FOR MEN AND BOYS. O. L. STANARD DRY GOODS COMPANY, Huntington, W. Va.
Filed January 14, 1919. Serial No. 115,190. PUBLISHED JANUARY 27, 1920.

131,242. CERTAIN NAMED CONSTRUCTION MATERIALS. THE STERLING PRODUCTS COMPANY, Cleveland, Ohio.
Filed February 16, 1918. Serial No. 109,046. PUBLISHED DECEMBER 2, 1919.

131,243. CANNED FRUITS—NAMELY, CANNED PEACHES AND CANNED APRICOTS. CHARLES STERN & SONS INC., Los Angeles, Calif.
Filed July 1, 1919. Serial No. 120,186. PUBLISHED FEBRUARY 3, 1920.

131,244. TEA, SPICES, COCOA, MUSTARD, FLAVORING EXTRACTS FOR FOODS, RICE, PEANUT-BUTTER, PANCAKE-FLOUR. STILES-PELLENS COFFEE CO., Cincinnati, Ohio.
Filed June 23, 1919. Serial No. 119,874. PUBLISHED FEBRUARY 10, 1920.

131,245. RICE. STUTTGART RICE MILL COMPANY, Stuttgart, Ark.
Filed October 4, 1919. Serial No. 123,440½. PUBLISHED JANUARY 6, 1920.

131,246. AUTOMOBILES AND MOTOR-CARS, EITHER FOR PLEASURE OR COMMERCIAL USE. THE TEMPLAR MOTORS CORPORATION, Cleveland, Ohio.
Filed March 21, 1919. Serial No. 116,802. PUBLISHED DECEMBER 30, 1919.

131,247. SILK PIECE GOODS AND COTTON PIECE GOODS AND COMBINATIONS OF THE SAME. TURNER & WALLS, New York, N. Y.
Filed October 30, 1919. Serial No. 124,371. PUBLISHED JANUARY 20, 1920.

131,248. FLOUR. ULTRAMARES CORPORATION, New York, N. Y.
Filed October 29, 1919. Serial No. 124,318. PUBLISHED DECEMBER 9, 1919.

131,249. MACHINES FOR EFFECTING EMULSION AND PRODUCING HOMOGENEOUS AND EMULSIFIED MIXTURES. UNION STEAM PUMP COMPANY, Battle Creek, Mich.
Filed January 17, 1919. Serial No. 115,308. PUBLISHED DECEMBER 30, 1919.

131,250. SHOES MADE OF LEATHER. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed July 6, 1918. Serial No. 111,978. PUBLISHED DECEMBER 23, 1919.

131,251. HOUSEHOLD GLOVES, ELECTRICIAN-GLOVES, AND BATHING-CAPS MADE OF RUBBER AND FABRIC AND RUBBER. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed September 5, 1919. Serial No. 122,375. PUBLISHED DECEMBER 30, 1919.

131,252. EMULSIFYING OIL USED IN THE TREATMENT OR DRESSING OF LEATHER AFTER MANUFACTURE. VACUUM OIL COMPANY, New York, N. Y.
Filed August 9, 1919. Serial No. 121,498. PUBLISHED FEBRUARY 3, 1920.

131,253. WHITING, A CARBONATE OF LIME AND USED AS A FILLER IN RUBBER GOODS. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed August 9, 1919. Serial No. 121,494. PUBLISHED JANUARY 27, 1920.

131,254. CANNED FRUITS — NAMELY, CANNED APRICOTS; CANNED VEGETABLES — NAMELY, CANNED TOMATOES. CHARLES EDWARD VAN LANDINGHAM, Los Angeles, Calif.
Filed September 19, 1919. Serial No. 122,926. PUBLISHED DECEMBER 9, 1919.

131,255. COWL-VENTILATORS. V. VAN NOORDEN & Co., Boston, Mass.
Filed August 1, 1919. Serial No. 121,188. PUBLISHED DECEMBER 2, 1919.

131,256. ACCOUNTANTS' BOOKS FOR KEEPING ACCOUNTS. ALBERT VAN SAND, New York, N. Y.
Filed October 25, 1919. Serial No. 124,194. PUBLISHED DECEMBER 23, 1919.

131,257. FRESH FRUITS — NAMELY, GRAPES. VAUGHN D. WHITMORE, Ceres, Calif.
Filed September 19, 1919. Serial No. 122,928. PUBLISHED DECEMBER 9, 1919.

131,258. REMEDY FOR DISEASES AND AILMENTS OF THE HEART AND NERVES. VAN VLEET MANSFIELD DRUG CO., Memphis, Tenn.
Filed January 23, 1917. Serial No. 100,867. PUBLISHED OCTOBER 28, 1919.

131,259. COMMERCIAL-MOTOR-VEHICLE BODIES, SUCH AS TRUCKS AND DELIVERY-VEHICLES. VEHICLE TOP & SUPPLY COMPANY, St. Louis, Mo.
Filed June 16, 1919. Serial No. 119,685. PUBLISHED DECEMBER 2, 1919.

131,260. AUTOMOBILES. VREELAND MOTOR CO. INC., Newark, N. J.
Filed September 27, 1919. Serial No. 123,231. PUBLISHED JANUARY 6, 1920.

131,261. PLACKET-FASTENERS, GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS FOR PERSONAL WEAR. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,059. PUBLISHED DECEMBER 30, 1919.

131,262. CERTAIN NAMED NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,065. PUBLISHED JANUARY 27, 1920.

131,263. CERTAIN NAMED NOTIONS. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,080. PUBLISHED DECEMBER 30, 1919.

131,264. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed October 18, 1918. Serial No. 113,800. PUBLISHED FEBRUARY 10, 1920.

131,265. IGNITION-MAGNETOS. WEBSTER ELECTRIC COMPANY, Racine, Wis.
Filed August 14, 1919. Serial No. 121,686. PUBLISHED NOVEMBER 25, 1919.

131,266. AWNING IN THE NATURE OF WIND-SHIELD-PROTECTOR. HOWARD W. WEED, Stamford, Conn.
Filed September 26, 1919. Serial No. 123,189. PUBLISHED JANUARY 27, 1920.

131,267. CEREAL FOOD. JAROLD R. WEST, Denver, Colo.
Filed October 24, 1919. Serial No. 124,291. PUBLISHED FEBRUARY 10, 1920.

131,268. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. WESTERN GROCER COMPANY, Oskaloosa and Marshalltown, Iowa.
Filed April 22, 1919. Serial No. 117,762. PUBLISHED FEBRUARY 3, 1920.

131,269. WRITING-PAPER AND MAILING-ENVELOPS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed August 29, 1919. Serial No. 122,147. PUBLISHED DECEMBER 23, 1919.

131,270. SOAP. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed September 26, 1919. Serial No. 123,191. PUBLISHED DECEMBER 30, 1919.

131,271. WINDOW-DISPLAY PAPER. LESTER P. WINCHENBAUGH CO., Boston, Mass.
Filed August 6, 1919. Serial No. 121,328. PUBLISHED JANUARY 6, 1920.

131,272. BREAKFAST CEREAL FOODS AND BUCKWHEAT-FLOUR. WOLFF BROTHERS, Paterson, N. J.
Filed July 18, 1919. Serial No. 120,685. PUBLISHED FEBRUARY 3, 1920.

131,273. ARTICLE OF MEN'S FURNISHINGS IN THE FORM OF ALUMINUM-PLATE SUPPORTERS FOR TROUSERS. LEONARD WOODS, St. Louis, Mo.
Filed July 10, 1919. Serial No. 120,441. PUBLISHED JANUARY 27, 1920.

131,274. FRESH APPLES. YUCAIPA APPLE GROWERS' ASSOCIATION, Yucaipa, Calif.
Filed October 20, 1919. Serial No. 124,035. PUBLISHED DECEMBER 30, 1919.

131,275. SILK AND COTTON WOVEN EDGINGS. ROBERT ZINN, Epsom, N. H.
Filed May 14, 1919. Serial No. 118,500. PUBLISHED DECEMBER 2, 1919.

131,276. LIVE POULTRY AND SETTING-EGGS. JOHN W. ZIMMERER, Fort Thomas, Ky.
Filed October 6, 1919. Serial No. 123,510. PUBLISHED FEBRUARY 10, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE DEMENT.

Decided March 1, 1920.

1. PATENTS—PRIORITY—ESTOPPEL BY JUDGMENT IN PRIOR INTERFERENCE INVOLVING ANOTHER APPLICATION OF SAME PARTY.

Where in a tri-party interference between P., H., and D. the interference was dissolved as to one claim because D. had no right to make it, and no appeal was taken from that decision, and at the time D. had an earlier application pending in which he could make it, but did not attempt to include the earlier application in the interference until after testimony had been taken by the other parties and the interference was before the Examiners-in-Chief on appeal from an adverse decision, *Held* that the Commissioner was right in refusing to reopen the interference at that time to include the earlier application and that D. was barred by the doctrine of *res judicata* from making the claim in his earlier application after final adverse adjudication in the interference and four years after the decision denying his right to make the claims in his later application.

2. SAME—APPEAL—REVIEW BY COURT OF APPEALS—QUESTIONS DISCRETIONARY WITH COMMISSIONER.

Where a motion brought before the Commissioner of Patents is directed to his discretion, his decision thereon must be sustained unless there was an abuse of discretion.

Mr. Reeve Lewis and *Mr. F. P. Davis* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

SMYTH, *C. J.*:

Dement appeals from a decision of the Patent Office rejecting claims 20 to 31, inclusive, of his application for a patent relating to a computing-machine. For the purposes of our opinion it is sufficient to set out claims 20 and 29. They are:

20. In a calculating machine, the combination with two groups of totalizer wheels, of means under control of the operator for transferring the number registered in either group to the other.

29. In a calculating machine, the combination of a plurality of sets of accumulators, a key mechanism whereby any one or any number of the accumulators may be caused to register one or more numbers at a time, and means whereby the accumulations on one set of accumulators may be controlled by the accumulations on another set of accumulators.

The rejection was placed upon the ground that Dement was barred by judgment, as well as by estoppel *in pais*, from making the claims.

Dement was a party to a tripartite interference wherein one Hopkins and one Peters were the other parties. In that interference, on motion of Hopkins, it was determined that claim 4 of the issue did not read on Dement's application, and the interference as to that claim was dissolved. Dement did not appeal. The interference proceeded as to the remaining claims. Hopkins and Peters took testimony. Dement, the senior party, filed no preliminary statement and took no testimony, but relied on his filing date. The Examiner of Interferences awarded priority to Hopkins. The Board of Examiners reversed his decision and ruled in favor of Dement. The Commissioner affirmed the decision of the board, but this court reversed the Commissioner and awarded priority to Hopkins. (*Peters* v. *Hopkins*, 41 App. D. C., 302.)

The Dement application involved in the interference just mentioned was filed in January, 1904, but Dement had another application relating to the same subject-matter which had been filed six months before, or in July, 1903.

After the three-party interference had been argued before the Board of Examiners on appeal, Dement filed a motion, addressed to the supervisory authority of the Commissioner, asking that the proceeding be remanded to the Examiner of Interferences and reopened so that he might substitute his earlier application, the one here involved, for the application then in the interference. This motion was denied for the stated reason that it was filed too late.

Dement, in the motion just referred to, said:

This earlier application *clearly* discloses the subject-matter of all the counts of the issue now in interference except count 1.

He further stated that if this earlier application—

had been placed in the interference at the time it was declared, the decision of the Examiner of Interferences would inevitably have been in—

his favor. Thus we have established by Dement's own admission that the subject-matter of all the counts in the tri-party interference was the same, except count 1, with which we have nothing to do in this proceeding.

When the tri-party interference was pending before the Examiner of Interferences, Dement knew what Hopkins and Peters were claiming, because he had access to their files. He also knew, of course, what was in his earlier application, and as his motion discloses, that the subject-matter was the same as that in his later one, then involved in the interference. This being so, was it not his duty be-

fore the decision of the Examiner was rendered against him to have filed the motion, which he later filed, when the proceeding was pending before the Board of Examiners? We think it was. True, the Examiner might have overruled his motion, but this is not at all likely. In that respect, however, he would not be in a situation different from that of any litigant who seeks permission in court to amend his pleading. The court may or may not, in the exercise of a sound discretion, grant the motion. Since it would have been the duty of the Examiner to have permitted the amendment, having in mind the statement of Dement—that the subject-matter was the same—we must assume that he would have performed his duty, and hence that Dement would have been allowed to amend the application. If he had been, his right to make those claims, as against Hopkins and Peters, could have been decided in that interference.

We have held in *in re Marconi* (38 App. D. C., 286, 290) that in a proceeding such as is now before us, where the question of *res judicata* is raised, the Commissioner stands in the place of the person who has a right to claim the protection of that principle. The case is exactly as if Hopkins was a party to the present proceeding. We have, then, a case in which the parties and the cause of action—claims to the subject-matter—are the same as they were in the tri-party interference. It has long been settled law that a judgment between the same parties upon the same cause of action is *res judicata*—

> not only as to every matter which was offered and received to sustain or defeat the claim or demand, but as to any other admissible matter which might have been offered for that purpose. (*Cromwell* v. *County of Sac*, 94 U. S., 351, 352. See also *in re Cutler*, 48 App. D. C., 444, 447; *Blackford* v. *Wilder*, 28 App. D. C., 535, 550, and *New Departure Mfg. Co.* v. *Robinson*, 39 App. D. C., 504.)

In the Blackford case the court, speaking through the late Chief Justice, ruled that it—

> follows inevitably that the final decision in the first interference is conclusive unless it can be made to appear that the question upon which the determination of the second case rests is one that neither was nor could have been presented in the first case.

Following this principle the conclusion is inescapable that Dement is estopped by the decision in the tri-party interference from setting up any right to the claims which are before us.

The fact that when the proceeding was pending on appeal before the Examiners-in-Chief Dement filed a motion to reopen the interference does not affect the conclusion which we have reached. Diligence is one of the things insisted upon in the Patent Office, and rightly so. Dement permitted Hopkins and Peters to take their testimony while they were in ignorance, as he well knew, of the contents of his prior application. They shaped their case and presented their arguments before the Examiner in the belief that Dement relied upon his filing date alone to defeat them. Not until after the Examiner had decided against him and he had learned from their testimony what they could establish did he file his motion. Not only that, but he waited more than four years after the decision that he could not make claim 4, which is the same as claim 20 of the present application, before revealing his true position. During all this time he knew what Hopkins and Peters claimed, as well as what they might claim for their disclosures, because he had access to their files when the ruling on claim 4 was made; yet he made no effort to bring the claims of the earlier application into the pending interference. His motion was directed to the discretion of the Commissioner, and, unless the latter abused his discretion, which we think he did not, his action must be sustained.

Even if Dement had not admitted by his motion that the subject-matter of his first and second applications was the same, we think it would have to be so held. As the Assistant Commissioner said in deciding the case:

> The issue in an interference is not merely a claim which is distinct and separable from other claims which are or may be made on the same disclosure. The contest is over an embodied invention, not a technical claim.

Again:

> The thing adjudicated was no doubt a thing different from the invention now claimed; but it was different only in scope of definition, as a simple pump differs from a double-acting pump. Certainly Hopkins could have been the inventor of the one-way transfer of totalizer results, while Dement was inventor of the two-way transfer. But that is not the whole question. The question is whether, after a losing contest with Hopkins on the one-way transfer Dement may now for the first time known to Hopkins lay an earlier claim to the two-way transfer, when both he and Hopkins had all along a basis for claim to the two-way transfer, and the applicant knew it.

It was said by Chief Justice Shepard in the Blackford case (p. 544), after reviewing many decisions:

> An interference in fact depends chiefly upon the subject-matter disclosed, and not merely upon the language of the respective claims.

Our decision in *in re Martin* (48 App. D. C., 187, 189) in no wise conflicts with anything we have said here. It was there held that since there was no judgment of priority against Martin he could not be said to be estopped by judgment. Here there was a decision of priority against Dement and in favor of Hopkins, and it is that decision which bars him from relitigating the questions there involved, or which might have been presented if he had filed his motion in time.

Believing that Dement is barred by the application of the doctrine of *res judicata* from asserting any right to the claims involved, the decision of the Commissioner of Patents is affirmed.

Affirmed.

Mr. Justice VAN ORSDEL dissents.

U. S. Circuit Court of Appeals—Second Circuit.

HERCULES POWDER COMPANY *v.* NEWTON, COMMISSIONER OF PATENTS.

Decided April 14, 1920

1. TRADE-MARKS — SUIT UNDER SECTION 4915, REVISED STATUTES—JURISDICTION.
   In a suit brought under section 4915, Revised Statutes, against the Commissioner of Patents to obtain registration of a trade-mark, where there is diversity of citizenship of the parties, although neither is a resident of the district where suit is brought, jurisdiction exists where defendant consents to the suit.
2. SAME—REGISTRATION—RIGHT TO REGISTRATION GOVERNED ALONE BY STATUTORY PROVISIONS.
   Upon application to register a trade-mark where the question presented is whether the mark is descriptive, and hence not registrable under the statutes, the value of the mark or the fact that dealers and buyers of the goods to which it has been applied do not associate it with the goods except as indicative of origin is immaterial and tends only to prove rights which should be protected from unfair competition.
3. SAME—SAME—DESCRIPTIVENESS OF MARK QUESTION OF LAW.
   Upon application to register a trade-mark the question whether it is descriptive is a legal one where there are no contradictions of fact or contradictory inferences of fact. (*Gold* v. *Newton*, 254 F., 824; 256 O. G., 649, distinguished.)
4. SAME—WHAT IS A REGISTRABLE MARK NOT DEFINED BY STATUTE.
   The trade-mark statute, (act of 1905, 33 Stat., 724,) as amended, does not describe or define what constitutes either a good trade-mark or a registrable trade-mark. It assumes that the word has a meaning sufficiently well known to dispense with statutory definition. It does, however, lay down some rules for the guidance of the Commissioner, among which is the provision that "no mark which consists * * * merely in words * * * which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term, shall be registered."
5. SAME—RIGHTS ACQUIRED BY TEN YEARS' EXCLUSIVE USE.
   The Trade-Mark Act of 1905 (33 Stat., 724) in the so-called "ten-year clause" recognized, if it did not create, a property right previously doubtful, if not wholly non-existent; but it does not give similar rights to one who has exclusively used a merely descriptive or geographical mark for ten years expiring after the passage of the act.
6. SAME.
   "No sign or form of words can be appropriated as a valid trade-mark which from the nature of the fact conveyed by its primary meaning others may employ with equal truth, and with equal right, for the same purpose." (*Standard Paint Co.* v. *Trinidad Asphalt Co.*, 220 U. S., 446; 165 O. G., 971.)
7. SAME—DESCRIPTIVE MARKS—"MERELY" DESCRIPTIVE.
   "'Merely descriptive' (Trade-Mark Act of 1905, section 5 (*b*)) means *only* descriptive, or nothing more than descriptive. It may be that the force of the adverb is satisfied by the addition to the descriptive word of a picture or device, or by qualifying the description through the addition of another word. * * * But if the proposed trade-mark consists of a single word, then that word standing alone is merely descriptive, or it is not descriptive at all."
8. SAME—"INFALLIBLE," FOR SMOKELESS POWDER, MERELY DESCRIPTIVE.
   The word "Infallible," as applied to smokeless powder, *Held* merely descriptive. Perhaps, when accurately used, it refers always to mental processes, but in common acceptation it means "exempt from uncertainty" or "absolutely trustworthy."
9. SAME—SUGGESTIVENESS AND DESCRIPTIVENESS DISTINGUISHED.
   "The difference between suggestion and description is often hard to perceive. An explosive powder marked as 'Hercules' would be suggestive, and no person other than its maker could with equal right and equal truth call his powder by that name or any derivation therefrom; but 'Infallible' is merely descriptive because it has no association with the Hercules Company other than that acquired by a long course of business nomenclature."

APPEAL from decree entered in the District Court for the Southern District of New York, dismissing bill in equity.

STATEMENT OF THE CASE.

The bill is brought under section 4915, Revised Statutes, and section 9 of the Trade-Mark Act of 1905 (33 Stat., 727) to procure a declaration that plaintiff is entitled to have defendant register under the act its trade-mark of "Infallible" for smokeless sporting-powder.

Diversity of citizenship exists between the parties; therefore, although neither is resident within the Southern District of New York, jurisdiction exists based solely on the consent of defendant. (*Barrett Co.* v. *Ewing*, 242 F. R., 506.)

In 1914 plaintiff applied for registration showing a use of the word "Infallible" as applied to smokeless sporting-powder for several years. On appeal from the Examiner defendant said that "under the circumstances" shown, he held the word "descriptive" with "great reluctance."

He pointed out that plaintiff's use of the word as a mark could be protected on the principles of unfair competition, but since the Patent Office had theretofore denied registration to "Infallible" as applied to flour, the same reasons impelled to deny as to smokeless powder; for plaintiff claimed by advertisement that its powder was "uniform in velocity and pattern," not "affected by climatic changes," and "always reliable." Of such a substance he thought "Infallible" not "exhaustively" descriptive, but still it described the qualities such powder should possess and it therefore should not be registered.

From this decision an appeal was taken to the Court of Appeals of the District of Columbia, which affirmed. (*In re Hercules Powder Co.*, 46 App. D. C., 52.) This suit was then brought, and the bill dismissed; this appeal followed.

(Decree—254 F., 906; 257 O. G., 1081—affirmed. For decision of the Court of Appeals of the District of Columbia see 46 App. D. C., 52; 241 O. G., 1157.)

Mr. Edwin J. Prindle and *Mr. Warren H. Small* for the plaintiff-appellant.

Mr. Robert F. Whitehead and *Mr. Lincas D. Underwood* for the appellee.

Before WARD, HOUGH, and MANTON, Circuit Judges.

HOUGH, *Cir. J.*:

The issue tendered by the pleadings herein is shown by an extract from the answer, viz:

> Defendant denies that the word "Infallible" is registrable as a trademark for smokeless powder under the act * * * and avers that it is * * * precluded from registration by said act.

Thus the point is not that registration ought not to be granted because of some proven fact, but that it cannot lawfully be conferred because the statute forbids.

Plaintiff has, we think, sought to complicate the issue by pressing upon us as a fact proven beyond doubt, that dealers and buyers of powder do not associate "Infallible" with that explosive except as indicative of its origin—"Infallible" means made by Hercules Co.

If this be true, it doubtless strengthens plaintiff's rights against infringers or trespassers; it shows the existence of a business to which the mark is appurtenant, and tends to prove rights which should be protected from unfair, *i. e.* deceptive competition.

But the only question we have, or can have presently before us, is the right to register; not the value or worthlessness of what is registered.

The desirability of registration under the act of 1905, to and among those in extensive and especially foreign trade is very great, and need not be dwelt upon; yet it is too well settled to need citation, that a trade-mark is not the creature of registration, but

the appanage or growth of a business. The Commissioner cannot base approval or denial of application on an inquiry into the nature of petitioner's business, or a finding as to how the public regards the product thereof; he can but examine the article and the mark, and declare whether the statute prohibits their registered union.

Therefore the evidence offered by plaintiff is immaterial and we regard the case as presenting nothing but an inquiry as to the meaning of a statute.

The absence of contradictions of fact, or of contradictory inferences of fact from admitted phenomena, differentiates this case from *Gold* v. *Newton*, (254 F. R., 824,) and we proceed to consider the legal question above stated.

Our present trade-mark statute, (act of 1905, 33 Stat., 724,) as amended, does not describe or define what constitutes either a good trade-mark or a registrable trade-mark. It assumes that the word has a meaning sufficiently well known to dispense with statutory definition.

It does, however, lay down some rules for the guidance of the Commissioner, and this case revolves around the construction of one of those rules, viz., (act, sec. 5; Comp. Stat., sec. 9490:)

> No mark which consists * * * merely in words * * * which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term, shall be registered.

It has been said of these words that they only declare "the accepted law of trade-marks," and we agree with this ruling. (*Re National Phonograph Co.*, 29 App. D. C., 142.)

On one point only did the present statute in effect certainly recognize, if not create, a property right previously doubtful if not wholly non-existent. We refer to the so-called "ten-year clause," also found in section 5 of the act, which as construed in *Davids Co.* v. *Davis* (233 U. S., 461) and *Nashville, etc., Co.* v. *Coca Co.* (215 F. R., 527) secured if it did not give to those who had exclusively used a doubtful mark for ten years before the passage of the trade-mark statute, rights now undoubted.

But nothing can be found in the act which gives to one who has succeeded in exclusively using a merely descriptive or geographical or proper name for ten years expiring after the passage of the act, rights identical with or similar to those validated by the ten-year clause.

It seems to us the clear intent of the legislature to compel those who wish registration for their marks and who could not claim under the ten-year proviso, to suggest to the Commissioner for registration only those marks recognized by the "accepted law," *i. e.* in the absence of further legislation by the rule announced in authoritative judicial decisions.

It is not without interest to note that contemporaneously with the passage of our present statute, Great Britain revised its law by passing the Trade-Mark Act of 1905. (For text see Sebastian, Trade-marks, 5th ed., p. 368.)

That act provides (sec. 9, subsec. 4) that a mark may be registered which is—

> a word or words having no direct reference to the character or quality of the goods—

to be distinguished.

Under this section of the act has grown up the English rule that words which are merely "laudatory epithets" are not registrable as trade-marks. (*Re Crosfield*, L. R., 1910, 1 ch., 130, disallowing the word "Perfection" as applied to soap; and *in re Sharpe, etc.*, 84 L. J., ch. 290, rejecting the word "Classic" as applied to stationery.)

Though often difficult in application, the accepted legal rule for trade-marks suspected of being descriptive or geographic is not difficult to state; and it may be noted that both in the statute and in decisions the faults arising from geographic and descriptive names are treated alike—they are nearly akin.

For us the authoritative rule was restated in *Standard, etc., Co.* v. *Trinidad, etc., Co.* (220 U. S., at 453) thus:

> It (the trademark) may consist in any symbol or in any form of words, but as its office is to point out distinctively the origin or ownership of the articles to which it is affixed, it follows that no sign or form of words can be appropriated as a valid trademark which *from the nature of the fact conveyed by its primary meaning others may employ with equal truth, and with equal right, for the same purpose.*

The latest ruling (*Hamilton, etc., Co.* v. *Wolf*, 240 U. S., at 256) relies upon the same decisions and applies the same rule to a close case; and in holding "American Girl" as not descriptive of shoes, points out that "American Shoes" would come within the prohibition.[1]

It seems clear, therefore, that the Commissioner will properly act under this section of the statute if he inquires whether under ruling case law the proposed trade-mark is descriptive—unless it can be held that the statute has modified or changed the result of judicial decision by inserting the word "merely."

"Merely descriptive" means *only* descriptive, or nothing more than descriptive. It may be that the force of the adverb is satisfied by the addition to the descriptive word of a picture or device, or by qualifying the description through the addition of another word. Thus in *Re Crosfield, supra* (p. 143) it was suggested that while appellant could not use the word "Perfection" as a trade-mark for soap, if he used "Crosfield's Perfection" different considerations might arise.

But if the proposed trade-mark consists of a single word, then that word standing alone is merely descriptive, or it is not descriptive at all.

It does not conflict with this ruling that, as suggested in *Williams* v. *Mitchell*, (106 F. R., at 170,) a word may be in its nature descriptive, and yet in its application not descriptive.[2]

As most English speech is to be understood only

[1] *Dennison, etc., Co.* v. *Thomas, etc., Co.* (94 F. R., 651) and *Kellogg, etc., Co.* v. *Quaker Oats Co.* (235 F. R., 657) contain citations of practically all the best considered cases on this subject.

[2] This ruling was disapproved (as it seems to us improperly) in *re American, etc., Co.* (28 App. D. C., 446.)

from its context, so a word often takes its hue and meaning from its environment. It is to this truth that we owe such decisions as that in *Waterman* v. *Shipman*, (130 N. Y., at 310,) holding that the word "Ideal" as applied to—

> fountain pens (is) non-descriptive, arbitrary and fanciful and has no natural nor necessary application to a pen.

And this court made the same ruling in respect of the same word as applied to brushes, in *Hughes* v. *Smith*, (209 F. R., at 39,) although the remark was not necessary to decision, inasmuch as the "ten-year clause" protected that particular trade-mark.

But after making these allowances it remains true that the fundamental inquiry is this: Does the suggested trade-mark word or device with the environment proposed for it, convey by its primary meaning something which others may employ with equal truth and equal right for the same purpose?

Putting that inquiry in this case, it seems to us that the word "Infallible" as applied to explosive powder, is merely descriptive. The word by derivation, and perhaps when accurately used, refers always to mental processes; but it has long come to mean in common acceptation "exempt from uncertainty," or "absolutely trustworthy." When applied to an explosive it is plainly descriptive of what the powder will do, and is distinctly the "laudatory epithet" of the English cases.

Comparing it with the American formulation of the rule, it is obvious that any other manufacturer of equally good powder may, with equal right and equal truth call his explosive "Infallible."

Decisions on such a point as this are illustrations rather than ruling precedents, for the environment or application of the word may so easily modify its signification.

Yet since the word is a common one, rulings upon a word similarly suggestive of excellence and similarly common are illuminative. The word "Standard" as applied to phonographs has been rejected, (*Re National Phonograph Co.*, 29 App. D. C., 142), and has been found equally open to objection in respect of scales, (*Computing Scale Co.* v. *Standard, etc., Co.*, 118 F. R., 935,) while as applied to bathtubs and similar articles it has been rejected (*Standard Ideal Co.* v. *Standard Sanitary Co.*, L. R., 1911, App. Cas., 78) under the Canadian Trade-Mark Act, which requires refusal of registration—

> if the so-called trademark does not contain the essentials necessary to constitute a trademark properly speaking.

Under this language it seemed to the Privy Council—

> perfectly clear that a common English word having reference to the character and quality of the goods in connection with which it is used, and having no reference to anything else, cannot be an apt or appropriate instrument for distinguishing the goods of one trader from those of another.

The decisions of this court have adhered to this rule consistently, from *Bennett* v. *McKinley* (65 F. R., 505, instantaneous-tapioca case) to *Thermogene Co.* v. *Thermozine Co.*, (234 F. R., 69, the thermos-bottle case.) The litigation over "Holeproof" hosiery (*Holeproof Co.* v. *Wallach*, 172 F. R., 859, modifying 167 F. R., 373) was decided wholly on grounds of unfair competition; as also were *Siegert* v. *Gandolfi*, (147 F. R., 100, the Angostura Bitters case;) *Florence, etc., Co.* v. *Dowd*, (178 F. R., 73, the Keep Clean toothbrush case,) and *Wrigley, etc., Co.* v. *Grove Co.*, (183 F. R., 99, the spearmint-gum case.)

It is true that in some of the decisions hereinabove cited, and many others, the distinction between rights inhering in a valid and registrable trade-mark and those arising from a defendant's unfair competition have not been plainly delimited. Yet the distinction is not shadowy; and in the closely-akin matter of geographical names as trade-marks we have recently treated it at length in *Scandinavia Co.* v. *Asbestos, etc., Works*, (257 F. R., pp. 951 and 960.)

We there held that geographical names did not constitute valid trade-marks unless selected, used and appropriated under such special circumstances as to point distinctively to origin or ownership. Of this the Chartreuse litigation is the best instance. (*Baglin* v. *Cusenier Co.*, 221 U. S., 592.) Transferring that remark to the present case of a descriptive word as a trade-mark we think that such word must be rejected unless it is so modified by other words, phrases or designs as to render it not "merely" descriptive, or unless common knowledge or evidence demonstrates that the descriptive word is used in a plainly non-descriptive manner.

Of this last the Sterling Ale case (*Worcester, etc., Co.* v. *Rueter*, 157 F. R., 217) and *Ludington, etc., Co.* v. *Leonard* (127 F. R., 155) are examples. In this last case the word "Carroms" was upheld as a trade-mark for a game because a carom was no part of the game.

The similarity of trade-mark and unfair competition law is obvious; the latter largely grew out of the former and is its natural evolution. The differences between them are perhaps as well marked by extreme cases under both doctrines as in any other way. The rigid yet far-reaching nature of a trade-mark is well illustrated by *Aunt Jemima, etc., Co.* v. *Rigney*, (247 F. R., 407,) while the possibilities of relief against unfair competition find an extreme example in *Shredded Wheat Co.* v. *Humphrey Cornell Co.*, (250 F. R., 960.) The litigation in this circuit over this trade-mark has we think grown out of the very rigid language employed by the Court of Appeals of the District of Columbia in cases of this kind. The decision on the appeal of the present plaintiff is based upon adherence to the court's previous decision in *Re Central Consumers' League*, (32 App. D. C., 523,) where the court held that it was the object of Congress—

> to prohibit anyone from acquiring a property right * * * in a name possessing any inherent signification that would of itself enhance the use or value of the article or articles to which it may be applied. * * * It was intended to limit the selection to mere arbitrary words.

In adhering to its previous ruling the court further said of trade-mark words in general:

> If descriptive at all, the act forbids the registration.

As above indicated, we think that is going too far. The suggested word must be "merely" descriptive and must be so descriptive with reference to the particular thing to be described.

The difference between suggestion and description is often hard to perceive. Complete definition seems to us impossible, but apt illustration is furnished by the present cause. An explosive powder marked as "Hercules" would be suggestive, and no person other than its maker could with equal right and equal truth call his powder by that name or any derivative therefrom; but "Infallible" is merely descriptive because it has no association with the Hercules Company other than that acquired by a long course of business nomenclature.

Another reason for this present action is the long line of trade-marks allowed by the Patent Office and thought by the plaintiff to be open to the same objection successfully urged against his word "Infallible." It seems to us that the registration of such words as "Perfection" and "Marvellous" for cold-cream (not to speak of others) is open to criticism, but errors in the Office cannot affect authoritative judicial decisions. It is also reasonably inferable from this record that plaintiff feels unjustly treated by refusal to register a word which it has exclusively and successfully used as a trade-mark for more than ten years, but not for that decade which alone secures protection under the ten-year clause of the present statute. We appreciate the hardship and are quite aware of the international trade-mark difficulties which beset the path of the American trader in foreign parts who has not secured registration in his own country. But the remedy is with the Congress, and neither the Commissioner of Patents nor any court can change the accepted law on which the Trade-Mark Act of 1905 was built.

It is not possible under the present act for a citizen to choose as his trade-mark something invalid by general law, use it without opposition long enough to make a showing of trade repute and commercial success, derive from that success "secondary meaning" for his mark, and then apply for registration.

There is much to be said in favor of a registration law which would give legal and governmental sanction to any mark which it could be shown the public had accepted. Such a system would enable this plaintiff to prevail; but Congress must first create it.

Decree affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. J.) The Weber patent, No. 743,206, for an incandescent-electric-lamp socket, claims 2 and 3 *Held* invalid, claims 1 and 4 *Held* not infringed. *E. H. Freeman Electric Co.* v. *Weber Electric Co.*, 262 Fed. Rep., 769.

Disclaimer.

1,002,700.—*Henri Victor Jules Jouffret* and *Jules Maurice Renée*, Paris, France. CARBURETER. Patent dated September 5, 1911. Disclaimer filed April 21, 1920, by the owner, *George M. Holley*.

"Hereby disclaims from said Letters Patent all carbureters except those in which the effective areas of passages *h* and *e*, and of *i* when used, are such that the requisite fuel feed when the motor is running at high speed is produced by reason of the nozzle *a* being under the influence of the vacuum produced by the passage of air through the contracted portion *c* of the aspirator tube, as pointed out at lines 43 to 54 of page 1 of said patent, and the requisite fuel feed when the motor is running at reduced or low speed is produced by reason of the said nozzle being under the influence of the suction in the part *f*, as pointed out at lines 58 to 64 of page 1 of said patent."

Adverse Decisions in Interference.

PATENT NO. 1,319,975.

On March 19, 1920, a decision was rendered that William A. Smith was not the first inventor of the subject-matter covered by claims 1, 2, 5, 6, 7, and 8 of his Patent No. 1,319,975, subject, "Drilling apparatus" and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,306,151.

On April 5, 1920, a decision was rendered that Philip J. Kroll was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,306,151, subject, "Electrolytic apparatus," and no appeal having been taken within the time allowed such decision has become final.

Patents Nos. 1,339,381 to 1,340,138.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 274—No. 2. TUESDAY, MAY 11, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page.
ISSUE OF MAY 11, 1920	209
INTERFERENCE NOTICE	209
CORRESPONDENCE BY MAIL	209
NOTICE	209
ASSISTANT EXAMINERS WANTED	209
APPLICATIONS UNDER EXAMINATION	210
PATENTS GRANTED	211
REISSUES	355
DESIGNS	356
TRADE-MARKS—REGISTRATION APPLIED FOR	383
TRADE-MARK REGISTRATIONS GRANTED	399
TRADE-MARK REGISTRATIONS RENEWED	402
LABELS AND PRINTS	403
COMMISSIONER'S DECISIONS—	
Ex parte Wright	405
Shenk and Holman v. Clark	405
OPINION OF THE ATTORNEY-GENERAL	406
DECISIONS OF THE U. S. COURTS—	
Day v. Bower	408
De Forest v. Richards	408
Shenk and Holman v. Clark	409
ADJUDICATED PATENTS	409
ADVERSE DECISIONS IN INTERFERENCE	410

Issue of May 11, 1920.

Patents	758	No. 1,339,381 to No. 1,340,138,	inclusive.
Designs	36	No. 55,108 to No. 55,143,	inclusive.
Trade-Marks	115	No. 131,277 to No. 131,391,	inclusive.
Labels	16	No. 21,853 to No. 21,868,	inclusive.
Prints	3	No. 5,256 to No. 5,258,	inclusive.
Reissues	1	No. 14,856.	
Total	929		

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 17, 1920.

Walter H. Earle, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Richard Frank, of 159 Chambers street, New York, N. Y., for registration of a trade-mark and trade-mark registered July 1, 1902, No. 38,536, to Walter H. Earle, of 905 Temple street, Los Angeles, Calif., and a notice of such declaration sent by registered mail to said Walter H. Earle at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Walter H. Earle, his assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
Assistant Commissioner.

Correspondence by Mail.

Notice is hereby given to attorneys and others transacting business with the Patent Office that all mail-matter arriving at the Washington post-office up to the hour of closing business at the Patent Office each day will be entered as received on that day.

NOTICE.

AMENDMENT TO PATENT LAWS—PAYMENT OF FEES.

Department of the Interior,
United States Patent Office,
Washington, D. C., March 11, 1920.

Attention is directed to the following excerpt from the deficiency appropriation act, approved March 6, 1920.

R. F. WHITEHEAD,
Acting Commissioner.

Hereafter all patent fees shall be paid to the Commissioner of Patents, who shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury shall direct, and said Commissioner is authorized to pay back any sum or sums of money paid to him by any person by mistake or in excess of the fee required by law.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.

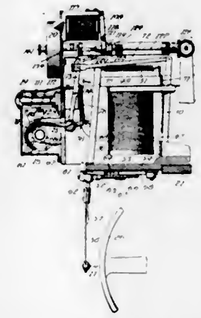
Condition at Close of Business May 1, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Jan. 20	Jan. 15	355
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 15	Dec. 9	947
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	450
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Sept. 22	Mar. 2	1,082
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 20	Jan. 28	307
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 30	Feb. 24	457
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 15	Feb. 6	773
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 1	Mar. 29	320
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Dec. 16	Jan. 2	440
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Nov. 17	Jan. 5	986
151	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Jan. 15	Jan. 23	659
222	12. Machine Elements	Aug. 21	Mar. 1	1,151
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making Metal Working; Needle and Pin Making; Turning.	Oct. 4	Mar. 8	1,104
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 10	Jan. 20	511
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 13	Feb. 21	1,008
111	16. Radiant Energy; Telegraphy; Telephony	Sept 29	Nov. 1	853
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 14	Mar. 12	248
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Aug. 9	Dec. 1	890
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Nov. 19	581
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 6	Jan. 15	673
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 7	Mar. 5	376
249	22. Aeronautics; Firearms; Ordnance	Jan. 30	Feb. 21	241
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Nov. 8	Feb. 14	577
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 1	Feb. 5	536
315	25. Agitating; Butchering. Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 5	Mar. 17	194
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Aug. 23	Sept. 12	716
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 2	Mar. 1	536
225	28. Internal-Combustion Engines	Jan. 12	Feb. 10	633
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 15	Mar. 29	630
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 31	993
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 23	Oct. 29	954
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 2	Jan. 19	1,127
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 17	Jan. 29	473
301	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Mar. 24	Apr. 1	119
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 23	Apr. 5	400
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 29	Jan. 16	1,106
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 9	Dec. 5	1,268
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Mar. 19	556
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 1	Oct. 8	978
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 28	Feb. 11	729
125	41. Resilient Tires and Wheels	Oct. 18	Feb. 18	804
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling	Nov. 11	Nov. 17	938
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 7	Feb. 9	754
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Dec. 10	Feb. 27	274
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Nov. 5	Jan. 7	737
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Oct. 8	Nov. 24	754
	Oldest new case, Aug. 9; oldest amended, Sept. 12.			
	Total number of applications awaiting action			31,198
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 1	Feb. 1	2,853
	Designs	Oct. 8	Feb. 6	1,064
	Labels and Prints	Jan. 2	Feb. 2	828

PATENTS

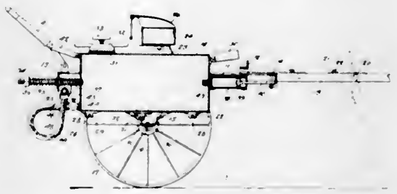
GRANTED MAY 11, 1920.

1,339,381. EFFICIENCY-RECORDER. MOIS H. AVRAM, New York, N. Y., assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J., a Corporation of New York. Filed June 29, 1915. Serial No. 36,942. 17 Claims. (Cl. 234—1.5.)



4. An efficiency recorder of the class described, comprising a clock mechanism, means coöperating therewith for recording the periods of working and thereby indicating the periods of rest of the machine the efficiency of which is desired to control, an electric indicator for announcing the working of the machine and means operable by said clock for automatically accumulating the working time of said machine, the control of said recording means by the machine being independent of the control thereby of the announcing and accumulating means but all adapted for simultaneous operation when the machine is running.

1,339,382. SPRAYING APPARATUS. HERMAN BARBER, Elwood, Ind. Filed Jan. 17, 1919. Serial No. 271,757. 7 Claims. (Cl. 299—43.)

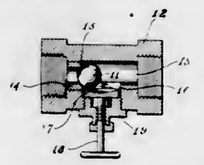


7. In an apparatus of the kind described, a wheeled supporting frame, a liquid container carried by said frame and supported thereby for a reciprocatory movement, an air pump discharging into the container and having its cylinder connected to the container to move therewith, the pump plunger being held stationary relative to the frame, means actuated by the wheels of the supporting frame for reciprocating the container, and means for manually reciprocating the container

---

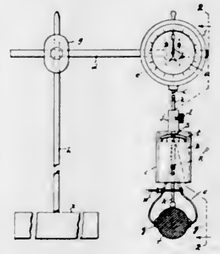
1,339,383. WATER-GAGE SAFETY-VALVE. FRANK F. BEESE, Chicago, Ill. Filed July 5, 1919. Serial No. 308,720. 1 Claim. (Cl. 73—54.)

The combination with the glass of a water gage and the connection of said glass with the boiler; of a valve chamber in said connection in communication at one end with the boiler and having at the other end a port opening to the glass, said port having a valve seat, a ball valve in the chamber, a movable support below the valve



on which it normally rests away from the aforesaid seat, said valve being free to move from the support to the seat, and a screw stem carrying the support for advancing the same to push the valve off its seat when it engages the same.

1,339,384. GAGE. HARRY B. DORGLASS, Detroit, Mich. Filed Feb. 17, 1919. Serial No. 277,410. 10 Claims. (Cl. 33—172.)



1. In an instrument for indicating variations from a state of parallelism, the combination of an indicator provided with an operating stem to contact the object undergoing measurement, and a second pivoted indicating member provided with one or more arms to engage the object at substantially ninety degrees from the contact point of said stem for indicating variations in a plane angularly related to the plane in which said stem functions.

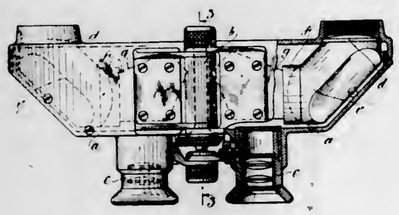
1,339,385. RIBBED BODY FOR HEAT-INTERCHANGE DEVICES. HANS GUYER, Zurich, Switzerland, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Filed Sept. 23, 1918. Serial No. 255,309. 10 Claims. (Cl. 257—263.)



2. A ribbed body for heat interchange devices, comprising a cylindrical main body, U-shaped ribs of sheet-metal arranged parallel to the axis of said body, shrunk

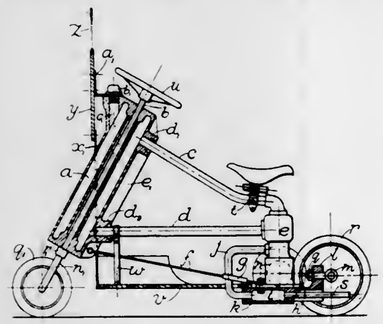
rings engaging the ends of the ribs and pressing the ribs with the transverse side of their U-shape against the main body, and a metallic coating for the whole, said ribs being soldered through said coating to the main body.

1,339,386. TELESCOPE. WILLIAM R. HAM, State College, Pa. Filed Apr. 15, 1919. Serial No. 290,212. 1 Claim. (Cl. 88—33.)



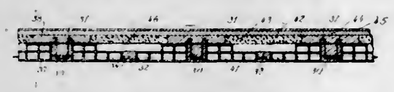
In a telescope, the combination of an achromatic objective in two separated parts and an inverting prism system, one part of the prism system being interposed between the two parts of the objective and all of the components of the objective and prism system being directly cemented together.

1,339,387. MOTORCYCLE. EDWARD VICTOR HAMMOND, Balham, London, England. Filed Nov. 21, 1916. Serial No. 132,620. 5 Claims. (Cl. 180—33.)



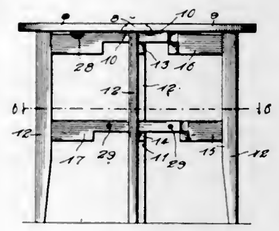
1. In a motor cycle, a frame including a tubular steering head, upper and lower tubular members connected to said head, and an engine having a water jacket in the angle between and connected to said tubular members, so that said water jacket forms a portion of said frame and cooling water is caused to circulate through said jacket, said steering head and said tubular members.

1,339,388. BUILDING CONSTRUCTION. HERMANN HAUSS, Philadelphia, Pa. Filed Feb. 2, 1918. Serial No. 215,053. 9 Claims. (Cl. 72—66.)



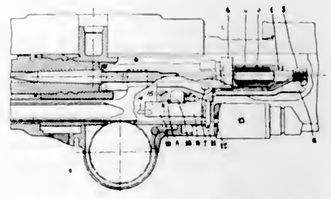
1. In a building construction, a plurality of blocks each having a high part and a low part, said blocks being placed in rows with their high sides adjacent each other and so disposed as to leave spaces between their high sides, and other spaces between their low sides, concrete beams filling the spaces between the high sides and overlapping the high parts of the blocks, smaller concrete beams filling the spaces between the low sides of the blocks, and a metallic reinforcement connecting said concrete beams.

1,339,389. FOLDING TABLE. HENRY F. HAVENS, Sr., Hudson Falls, N. Y. Filed May 22, 1919. Serial No. 299,053. 5 Claims. (Cl. 45—116.)



1. The combination in a table, of a top portion, a leaf hinged thereto, a top-supporting frame under said top portion, a leaf-supporting frame movably secured to the said top-supporting frame by an axially-vertical pivotal connection, and a torsional spring alined with the axis of said pivot and having its ends secured respectively to said top-supporting frame and said leaf-supporting frame.

1,339,390. MACHINE-GUN. GEORGE HAZELTON, Battersea, London, England. Filed Jan. 6, 1919. Serial No. 269,811. 4 Claims. (Cl. 89—27.)



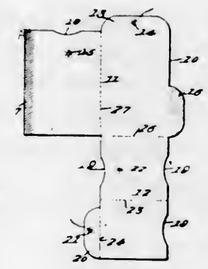
1. A synchronized firing device for aircraft machine guns of the kind referred to, comprising a sear pivotally mounted, a sleeve in fixed relationship to the sear, a rocking shaft mounted within the said sleeve having a cam element at one end and a tripper arm at the other, a reciprocating part such as the cocking handle to engage with the cam element, a spring plunger adapted to give the return oscillation to both sear and rocking shaft, and a tripper reciprocating in phase with the propeller to engage with the tripper arm on the rocking shaft.

1,339,391. SUPPORT FOR LINE CONDUCTORS. LEM E. HENDEE, Milwaukee, Wis. Filed Feb. 8, 1919. Serial No. 275,752. 4 Claims. (Cl. 248—34.)



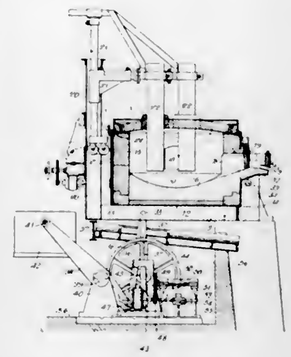
1. In a line conductor support, the combination of a member having integral arched attaching elements, and means for securing one or a series of these elements to a support.

1,339,392. ENVELOP. WILLIS HIRE, Detroit, Mich. Filed Aug. 26, 1919. Serial No. 319,937. 1 Claim. (Cl. 229—72.)



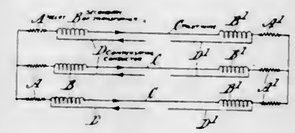
An envelop formed from a single sheet of material of substantially L-shape including a body portion, an elongated relatively narrow portion extending from one edge of said body portion, a flap member formed on the edge of said body portion opposite the direction of extension of said narrow portion, engaging fastening member carried by said flap and said body portion, a gummed flap formed on one edge of said body portion adjacent said narrow portion, and the opposite edge of said body portion being gummed, a flap portion formed on one edge of said narrow portion at the outer end thereof, and interengaging securing means on said narrow portion and said last named flap, said narrow portion being foldable onto itself and said last named flap being foldable whereby to define a relatively small compartment, said compartment being foldable onto said body portion with a gummed flap sealed thereonto whereby to define a second relatively small compartment, and said body portion being foldable onto itself with the gummed edge thereof engaged against the opposite edge and said first named flap being foldable whereby to define a third compartment of relatively large size.

1,339,393. ELECTRIC FURNACE. JOHNSON HUGHES, deceased, by Emily W. Hughes, administratrix, Philadelphia, Pa. Filed Oct. 11, 1919. Serial No. 330,105. 8 Claims. (Cl. 204—64.)



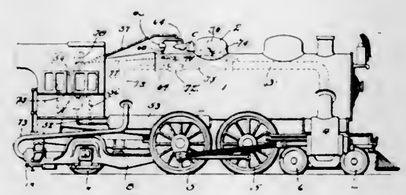
2. An electric furnace including a metal shell, an inner refractory lining therefor, the outer surface of said lining having an offset therein forming a gap between the inner surface of the shell and the outer face of said refractory lining, and means between said shell and said refractory lining forming a foraminous filler adapted to prevent warping and distortion of the lining and shell and closing of the gap between the shell and lining without preventing circulation of a cooling medium in said gap.

1,339,394. PROTECTION OF ELECTRIC DISTRIBUTION SYSTEMS. PHILIP VASSAR HUNTER, Purley, and JAMES ROBERT BEARD, Benton, England. Filed May 6, 1918. Serial No. 232,984. 6 Claims. (Cl. 175—294.)



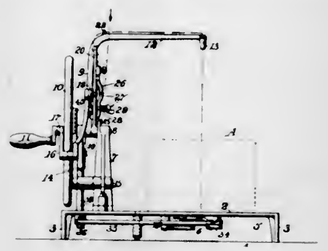
1. In protective means for electric distribution systems, the combination with pilot conducting means, of relay means and current transformer means electrically connected in circuit with said pilot conducting means, and open-circuited compensating conducting means adapted and arranged to neutralize the capacity current in said pilot conducting means.

1,339,395. BOOSTER-MOTOR FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, N. Y. Filed May 22, 1919. Serial No. 299,037. 73 Claims. (Cl. 105—48.)



1. In a controlling mechanism for booster motors for steam locomotives, the combination of a moving part in the controlling devices of the locomotive, a booster motor, and means located in the path of movement of said moving part for controlling said booster motor.

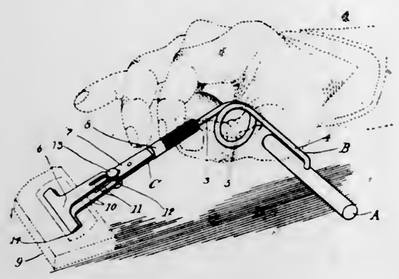
1,339,396. MACHINE FOR TYING BUNDLES, &c. EDWARD W. JENKINS, Norristown, Pa. Filed June 13, 1917. Serial No. 174,430. 8 Claims. (Cl. 100—31.)



1. In a machine of the character stated, the combination of a table having a slit at one side about midway of its length, a knot-tier arranged under the table adjacent the blind end of the slit, a binder arm hinged on a horizontal axis above and to one end of the table and comprising a radial arm having a lateral overhanging portion arranged lengthwise of the table and having its free end formed with a cord guide, the length of the radial arm being sufficient to carry the lateral portion beyond the slotted side of the table whereby it may pass under the same and close to the knot-tier, and means to rock the binder arm and operate the knot-tier alternately.

S. In a machine of the character stated, the combination of a table having an opening therein through which the binding cord may reach from the knot tier to the bundle upon the table and also having means extending below the same to hold it suspended and to provide means for its support so as to leave a space below it, combined with a frame arranged in fixed relation to the table and laterally to one side thereof, a rock shaft supported in said frame and having secured thereto a binder arm so shaped as to have its cord binding end extended above the table and radially at a considerable distance from the rock-shaft, the radial distance from the axis of oscillation of the rock shaft to the cord binding end of the binder arm being greater than the distance between said axial line of the rock shaft and the table, whereby the end of the binder arm may be swung to a position below the table, a knot-tier arranged below the table and at a distance above the bottom of the support therefor, whereby the said knot-tier has a fixed relation to the table and shielded thereby, and means to rock the rock shaft and the binder arm alternately with the operation of the knot-tier.

1,339,397. RAZOR-BLADE HOLDER. CHARLES W. JONES, St. Paul, Minn. Filed Aug. 12, 1918. Serial No. 249,395. 3 Claims. (Cl. 51—16.)



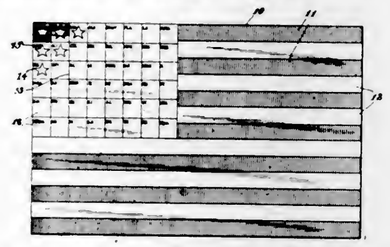
1. A blade sharpener, comprising a slidable base, an arched handle portion supported at one end on said base, a blade holder, and a finger and thumb engageable portion rigidly secured to the blade holder and revolubly mounted on the end of the arched handle opposite to the base whereby to be engaged by the thumb and a finger and revolved during the honing operation, for the purpose set forth.

1,339,398. MOP-HEAD. ISAAC M. KAUFMAN, Brooklyn, N. Y. Filed Oct. 10, 1919. Serial No. 329,687. 2 Claims. (Cl. 15—56.)



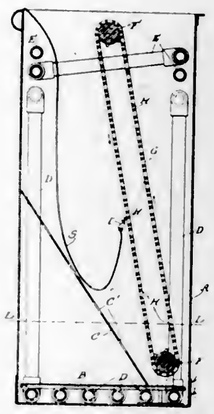
1. A mop head comprising a frame, a cloth holding bar rotatably mounted in one end of the frame for reversal, and having at the other end a spacer head on one side to provide differently sized spaces for varying thicknesses of cloths when said bar is reversed, and means at the last named end for clamping the holding bar in its positions.

1,339,399. EDUCATIONAL GAME-BOARD. WALTER DEWITT KEMP, New York, N. Y. Filed Aug. 4, 1919. Serial No. 315,289. 4 Claims. (Cl. 46—41.)



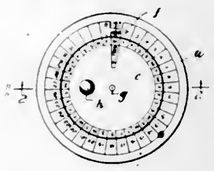
1. A game apparatus including a game board, a plurality of grouped series of game pieces adapted for coöperation with the game board, each game piece comprising elongated rectangular sections, and serrations preventing the association of unrelated sections.

1,339,400. IMPREGNATING APPARATUS. WINTWORTH V. LANDER, Newton, Mass., assignor to General Indurating Corporation, New York, N. Y., a Corporation of New York. Original application filed Dec. 20, 1916, Serial No. 137,959. Patent No. 1,277,322. Divided and this application filed July 31, 1918. Serial No. 247,662. 10 Claims. (Cl. 91—46.)



3. Apparatus for treating materials with solutions in volatile solvent, comprising a vessel open for the introduction of materials to be treated, means to heat a solution in the vessel, and means at an upper part of the vessel to condense vaporized solvent emanated by a solution in a lower part of the vessel.

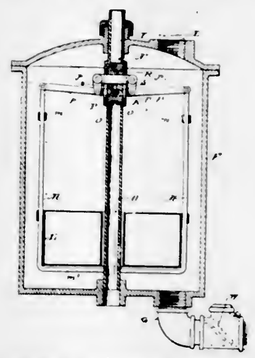
1,339,401. CALENDAR. ALEXANDER LATIER, Jersey City, N. J. Filed Oct. 31, 1919. Serial No. 334,696. 6 Claims. (Cl. 40—115.)



1. A perpetual calendar, having in combination, a member having a plurality of divisions with thirty-one day

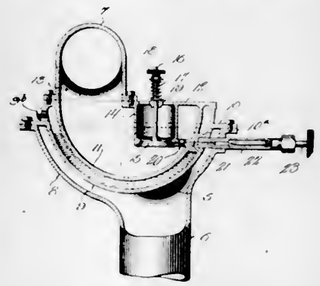
of the month designations, a month member having divisions with the months of the year thereupon, one month advanced over the preceding month a number of divisions equal to the number of days that the preceding month overruns four weeks, and a day of the week and year member divided into a plurality of divisions in which in succession are placed the days of the week up to at least thirty-one and the years are placed in divisions represented by the day of the week on which that year begins, said members being connected together to operate in the manner described.

1,339,402. CONDENSING AND VACUUM PUMP. SAMUEL LIPPERT, East Cleveland, Ohio. Filed Aug. 21, 1915. Serial No. 46,709. 3 Claims. (Cl. 160—1.)



1. In a condensing pump the combination with a condensing chamber, of an inlet pipe for live steam, an inlet pipe for cold water, said pipes being alined with each other and provided with lateral openings, and a sleeve valve slidingly movable over said openings and operating to alternately open and close the same.

1,339,403. CARBURETER. JOHN H. LYTLE and JOHN J. MCFARLAND, Milwaukee, Wis. Filed Sept. 10, 1917. Serial No. 190,689. 1 Claim. (Cl. 261—12.)



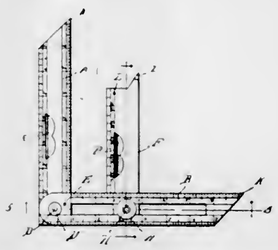
The combination with an engine including a horizontally extending intake manifold and an exhaust manifold disposed below the intake manifold and provided with an intermediate depending discharge neck, of a bowl shaped enlargement in the exhaust manifold above the discharge neck, a depending neck on the intake manifold above said enlargement of the exhaust manifold, a jacketed mixing bowl having its major portion disposed in the enlargement of the exhaust manifold, the wall of the bowl being spaced from the wall of said enlargement, an outwardly extending flange on the mixing bowl secured to the enlargement in the exhaust manifold and closing the same, the depending neck of the intake manifold closing the inner portion of the bowl, a cover for the outer portion of the bowl, a well carried by said cover and forming an air inlet port, and a fuel inlet port adjacent the bottom portion of the well.

1,339,404. PHONOGRAPH-TONE MODIFIER. MEYER MALTZ, Chicago, Ill., assignor of one-half to Bernhardt M. Arnesen and one-half to William C. Utes, Chicago, Ill. Filed Feb. 20, 1919. Serial No. 278,229. 5 Claims. (Cl. 274—27.)



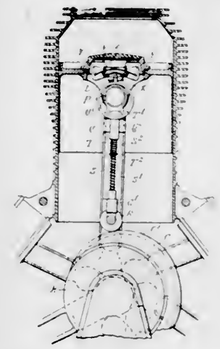
1. A sound modifier comprising a casing composed of celluloid, said casing being cylindrical in shape with closed ends, and having an opening in one side thereof, a rubber member fixed in said opening, said rubber member being arranged to be clamped onto a device.

1,339,405. COMPOUND IMPLEMENT. FRANK MEYERS, Laurel, Oreg. Filed May 1, 1919. Serial No. 293,994. 5 Claims. (Cl. 33—97.)



1. The combination of the parts A, B and F, the parts A and B being pivotally connected at one end the part B being longitudinally slotted and rabbeted and the element F being so rabbeted transversely at one end as to fit into said rabbet and slot of the part B and thus be longitudinally slidable thereafong while maintained at right angles thereto and means for clamping parts A, B and F in the position to which they may be adjusted.

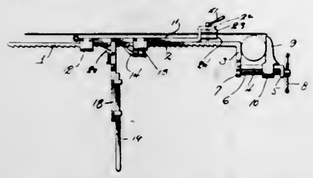
1,339,406. VALVE MECHANISM OF INTERNAL-COMBUSTION ENGINES. HARRY LAWLEY MILNER, Manchester, and ALFRED RICHARD BEEBY, South Farnborough, England. Filed Sept. 21, 1915. Serial No. 51,860. 7 Claims. (Cl. 123—47.)



1. The combination with a cylinder, a crank element, a piston head having an induction valve, and a connecting rod for the crank element and the piston, of an outer pivot pin, a tappet rod slidably mounted on the connecting rod exteriorly thereof and provided with an outer terminal portion of ring formation surrounding the said pivot pin.

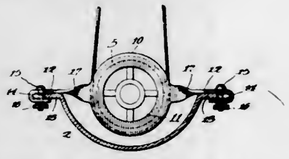
means for operating the tappet rod, and means actuated by the said outer terminal portion of the tappet rod for opening the valve.

1,339,407. WIRE-STRETCHER. WILLIAM C. MITCHELL, Grandview, Tenn. Filed May 21, 1919. Serial No. 298,640. 2 Claims. (Cl. 254—71.)



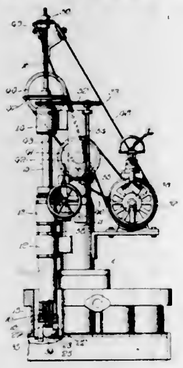
1. In combination with a fence post having fence wires extending tangentially thereacross, a rack bar one end of which is secured to said fence post, a supporting bar slidably associated with said rack bar and having one end thereof laterally offset to provide a plate beyond said fence wires, a second plate one side of which engages the first plate, the opposite side thereof embracing the fence wires, a third plate engaged with the opposite sides of the fence wires, and means extending through all three of said plates and adjustable to clamp the same snugly in engagement.

1,339,408. FAN-BELT GUIDE FOR FORD AND OTHER CARS. PRATT C. MORRIS, Thomasville, Ga., assignor to Charles W. Cooper, Thomasville, Ga. Filed Apr. 17, 1919. Serial No. 290,827. 5 Claims. (Cl. 74—51.)



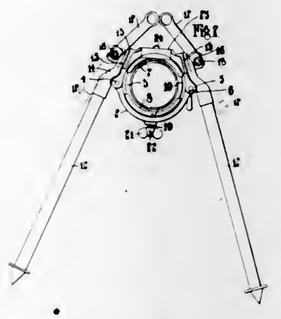
1. A belt-guide comprising a flange to fit parallel with the side face of a pulley and formed with an opening adapted for the passage of a crank-ratchet and having a laterally extending arm for attachment to a support to sustain the flange in operative relation to the pulley.

1,339,409. PORTABLE BORING AND GRINDING DEVICE FOR AUTOMOBILE-CYLINDERS. WILLIAM S. MYERS and AMZY L. SMITH, Ashland, Ky., assignors of one-third to C. R. Wilson, Chicago, Ill. Filed June 18, 1919. Serial No. 305,023. 9 Claims. (Cl. 29—26.)



1. In a device of the class described, the combination of a portable support, a main shaft, a head carried thereby, a cutting tool and a grinding device carried by the head, means for rotating the ehead and causing the revolution of the grinding device, and means for rotating the grinding device, substantially as described.

1,339,410. MOUNT OR STAND FOR MACHINE-GUNS. GEORGE NORMAN, Birmingham, England. Filed Feb. 14, 1918. Serial No. 217,070. 3 Claims. (Cl. 89—40.)



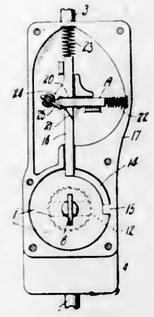
1. A bipod stand for supporting part of weight of a machine gun, comprising two legs, a yoke in two parts hinged and detachably fastened together to which the legs are clamped, clamping pieces embracing the gun barrel casing pivotally mounted within the yoke to permit of a limited swiveling movement, and means for locking the legs in various positions relative to the yoke.

1,339,411. APPARATUS FOR STARTING INTERNAL-COMBUSTION ENGINES AND ALSO FOR OTHER PURPOSES. ANTOINE ISIDORE ODIER, Puteaux, France. Filed Aug. 11, 1919. Serial No. 316,719. 2 Claims. (Cl. 74—55.)



1. In an apparatus for starting an engine mounted in an aeroplane or motor car, the combination with a starter comprising a cylinder, a piston member in the cylinder arranged to be worked by pressure fluid, a pulley mounted on the piston member, another pulley mounted for turning the engine shaft, a spring attached to a fixed part and a rope attached at one end to a fixed part adjacent the cylinder and at the other end to the spring and adapted to pass over the pulley for turning the engine shaft, of means for supporting said starter independently of the engine to be started, and means for connecting said starter operatively and in a disconnectible manner to said engine, whereby said engine can be started without said starter being permanently carried by said engine.

1,339,412. VALVE-LOCK. LYLE PETERS, Denver, Colo. Filed Dec. 5, 1919. Serial No 342,804. 4 Claims. (Cl. 70—124.)



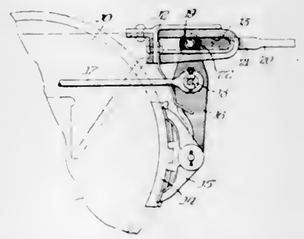
1. In combination with a bolt, a second bolt normally in locking engagement with the main bolt, and a key operated member having a nib for engaging the secondary bolt and imparting an initial movement thereto and subsequently engaging the main bolt for throwing the same, the secondary bolt being continued in its movement by engagement with the main bolt.

1,339,413. BRAKE-RIGGING ARRANGEMENT. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 22, 1918. Serial No. 229,928. 2 Claims. (Cl. 188—213.)



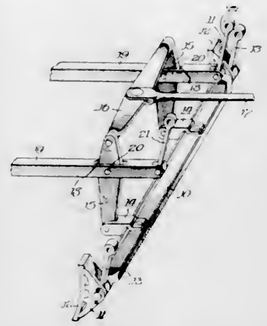
1. In brake mechanism, a brake lever operatively associated with a wheel and having oppositely extending arms, pull rods connected to said arms and extending on opposite sides of the associated wheel, and bracket means for guidably supporting said lever.

1,339,414. BRAKE MECHANISM. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 22, 1918. Serial No. 229,929. 2 Claims. (Cl. 188—213.)



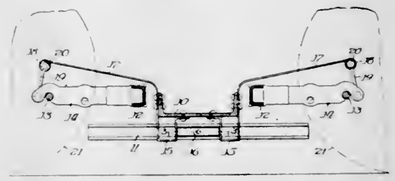
1. In brake mechanism, the combination of a truck side frame having a laterally extending portion lying in the vertical plane of the associated truck wheel, a bracket secured thereto, and a brake lever carrying a pin at its upper end slidably supported by said bracket.

1,339,415. BRAKE-RIGGING. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 22, 1918. Serial No. 229,933. 2 Claims. (Cl. 188—213.)



1. In brake mechanism, the combination of a brake head, a brake hanger therefor, a brake lever operatively connected to said brake head, an equalizer bar directly connected to said brake lever, a pull rod associated with said brake lever, and a hanger connected to the pull rod for supporting the latter.

1,339,416. BRAKE SUPPORTING AND LEVELING DEVICE. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 22, 1918. Serial No. 229,937. 8 Claims. (Cl. 188—213.)



1. In brake mechanism, the combination of a brake beam, a rigid safety bar underlying the beam, and separate means for supporting said safety bar and having a resilient portion operatively connected to said brake beam.

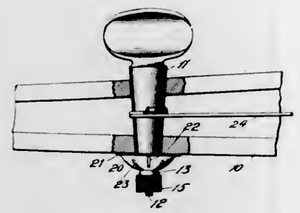
1,339,417. BONDED-WIRE-CABLE STRUCTURE AND METHOD OF MAKING THE SAME. ROBERT C. PIERCE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 20, 1919. Serial No. 331,991. 12 Claims. (Cl. 219—10.)



1. The method of securing stranded cable ends against fraying which comprises fusing the strand metal at the cable end, causing the fused portions of neighboring strands to coalesce, and then cooling the fused strand metal to form an integral bond constituting the end face of the cable.

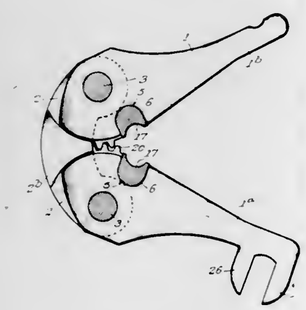
12. A wire cable terminal at whose extremity the strands are bonded by a thin disk of strand metal formed integrally with said strands.

1,339,418. TUNING-PEG FOR STRINGED INSTRUMENTS. BERNHARD POEHLAND, Brooklyn, N. Y. Filed Nov. 27, 1918. Serial No. 264,284. 3 Claims. (Cl. 84—78.)



1. In combination with a stringed musical instrument having a head, a rotatable tapered key extending through the head of the instrument for tuning the string, a screw seated in the outer end of said key, a sheet metal domed washer applied upon said screw and engaging the side of said head, a bushing having a rounded bearing surface applied on said screw and engaging said washer, a washer applied against said bushing and a nut on said screw for pressing said last mentioned washer and said bushing toward said domed washer, said domed washer being slit to render it resilient, and having a central opening to pass over said screw and receive at its edges said bushing.

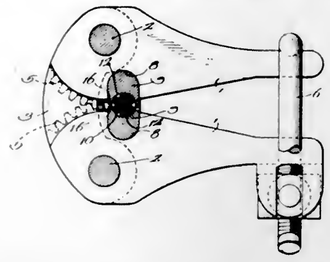
1,339,419. WIRE-LINE CLAMP. PHILIP M. REA, West Chicago, Ill. Filed May 8, 1919. Serial No. 295,750. 8 Claims. (Cl. 24—132.)



3. A cable clamp having a link, a pair of jaws pivoted to the link at the ends thereof, said jaws having recesses in their inner faces for the reception and engagement of the cable, said recesses being so placed that when the jaws are in closed gripping position the said recesses will be near the plane defined by the axes of the jaw pivots, arms for rotating said jaws about their pivots, and gears rigidly fastened to said jaws concentric with their pivots, said gears meshing with each other for equalizing the angular movement of the jaws about their pivots.

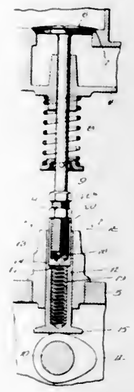
1,339,420. LINER FOR WIRE-LINE CLAMPS. PHILIP M. REA, West Chicago, Ill. Filed Feb. 13, 1920. Serial No. 358,492. 4 Claims. (Cl. 24—133.)

1. Liners for wire line clamps having concave surfaces facing each other for engaging the line between them, one of the liners having an edge at the margin of its concavity projection beyond the median plane of the liners



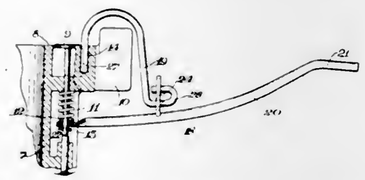
and the other liner having an indentation opposite to said projection for accommodating it.

1,339,421. TAPPET FOR INTERNAL-COMBUSTION ENGINES. GEORGE R. RICH, Battle Creek, Mich. Filed Jan. 10, 1917. Serial No. 141,661. 2 Claims. (Cl. 123—90.)



1. A tappet for internal combustion engines comprising a centrally bored tappet body, having a cylindrical bearing surface throughout the major portion of its length, the bore at the upper end being enlarged to provide an internal annular shoulder and being closed at the bottom, a tubular member sliding in the upper enlarged part of the bore of said tappet body with its lower end in close proximity to, and arranged to seat upon said shoulder, a coiled compression spring in the lower part of said bore and confined between the bottom of said tubular member and bottom of the bore and acting to unseat said tubular member, and a valve lifting member held in said tubular member.

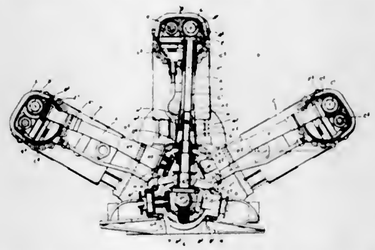
1,339,422. VALVE-TOOL. AUGUST C. ROSENBROOK, Madison, Wis. Filed Feb. 12, 1919. Serial No. 276,674. 3 Claims. (Cl. 29—87.1.)



1. In a valve tool, the combination of a channel bar valve spring lifting lever provided with a valve stem re-

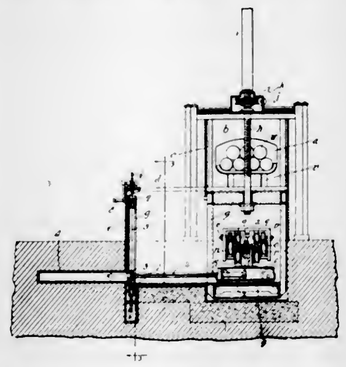
ceiving notch and a flat portion surrounding the sides of the notch, a member secured to said lever intermediate its ends and having a pair of spaced apart apertures, and a supporting fulcrum having a straight socket engaging end, an eyed end having parts loosely passing through said spaced apertures and a manifold clearing portion connecting said ends.

1,339,423. INTERNAL-COMBUSTION ENGINE. ARTHUR JOHN ROWLEDGE, London, England, assignor to D. Napier & Son, Limited, London, England. Filed Oct. 15, 1917. Serial No. 196,710. 5 Claims. (Cl. 123—55.)



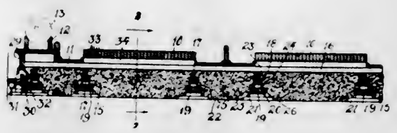
1. In an internal combustion engine of the type comprising three blocks of cylinders disposed with the cylinder axes in three planes inclined to each other and having overhead valve cam shafts and two magnetos; the improved means for driving the cam shafts and magnetos comprising, a pair of beveled gears secured to the crank shaft of the engine at one end thereof, means to drive said cam shafts including a shaft radially disposed with respect to the crank shaft axis having a bevel gear meshing with one of the bevel gears on the crank shaft adapted to drive a cam shaft of one block, similar shafts for driving the cam shafts of the other blocks, each disposed to intersect the axis of said radial shaft above the axis of the crank shaft, bevel gears for driving said last mentioned two shafts from the radial shaft and a pair of bevel gears meshing with the other gear on the crank shaft for driving the magnetos.

1,339,424. FURNACE FOR THE ANNEALING, HARDENING, QUENCHING, OR LIKE HEAT TREATMENT OF METALS AND THE LIKE. ALFRED SMALLWOOD, Highgate, London, England. Filed July 31, 1918. Serial No. 247,641. 5 Claims. (Cl. 266—4.)



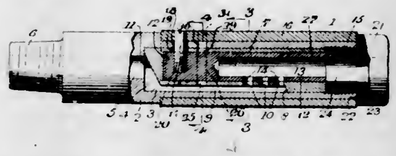
1. A furnace, including a liquid-sealed heating chamber, an elevator in the liquid-seal adapted to raise articles deposited thereon into alinement with said heating chamber, and articles supporting means on said elevator adapted to be advanced together with the articles into the heating chamber to deposit the articles therein and to subsequently withdraw said articles.

1,339,425. BOWLING-ALLEY. CHARLES WHITNEY STEVENS, Chicago, Ill., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1917. Serial No. 164,975. 8 Claims. (Cl. 20—6.)



1. A vibration-deadening floor comprising in combination a plurality of substantially parallel, horizontally-extending nailing strips beneath said floor, to which it is secured, a plurality of spaced cushioning supports under each nailing strip, a second plurality of substantially horizontally-extending nailing strips beneath said cushioning supports and on which said supports rest, a second plurality of cushioning supports under said second plurality of nailing strips, and a foundation, to which said second plurality of supports is attached, whereby continuous physical connection between said floor and said foundation is obtained solely through said cushioning supports.

1,339,426. THROTTLE-VALVE HANDLE FOR PNEUMATIC DRILLS, HOLDERS-ON, AND OTHER APPLIANCES. LEWIS SYKES, Camden, N. J., assignor, by direct and mesne assignments, to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Filed Jan. 2, 1919. Serial No. 269,256. 4 Claims. (Cl. 121—35.)

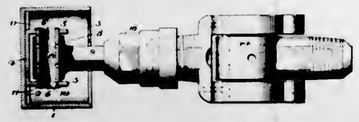


3. A throttle valve handle, comprising a body portion provided with a longitudinal bore which is open throughout its entire length and extends through the rear end of said body portion, said body portion having an aperture which leads into the forward end of the longitudinal bore, a valve casing arranged within the longitudinal bore and clamped therein to be held stationary with relation to said body portion, said valve casing being provided with a longitudinal bore and ports which communicate therewith, said valve casing having its side wall and forward end cut away to form a passage which communicates with said aperture and said ports, said body portion and valve casing being provided with circumferentially extending slots, a valve rotatable in the valve casing and provided with a longitudinal bore and having ports communicating therewith and adapted to communicate with the first named ports, a plug connected with the rear end of the body portion and provided with an aperture having communication with the longitudinal bore of the valve casing, a sleeve rotatable upon said body portion, and a pin affixed to said sleeve and extending through said slots and connected with said valve to turn the valve.

1,339,427. CONNECTING MEANS FOR PISTONS AND PISTON-RODS. LEWIS SYKES, Camden, N. J., assignor, by direct and mesne assignments, to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Original application filed Nov. 7, 1918, Serial No. 261,517. Divided and this application filed June 7, 1919. Serial No. 302,445. 3 Claims. (Cl. 74—108.)

1. In a device of the character stated, a piston, a plate secured to the inner wall thereof and having apertured

ears projecting at an angle therefrom, a hardened steel tubular pin having its ends arc-welded in said ears, and



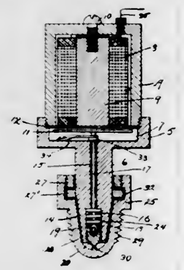
a piston rod having a T-head located between said ears and provided with a bearing through which said pin passes.

1,339,428. METHOD OF OPERATING AN ELECTRIC FURNACE. MAX R. TREMBOUR, Watervliet, N. Y., assignor, by mesne assignments, to Ludlum Electric Furnace Corporation. Filed Mar. 24, 1916. Serial No. 86,419. 8 Claims. (Cl. 204—64.)



1. The method of melting and refining metals in an electric furnace which consists in passing an electric current through the charge between an electrode adjusted to arc with the charge and an electrode of carbonaceous material adjusted to contact with the charge, using the electric current both to supply heat at the arcing electrode as well as to prevent carbonization of the charge and dissolution of the contacting electrode.

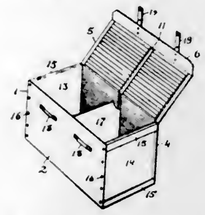
1,339,429. SPARK-PLUG. GEORGE L. TRUESDELL, Redwood Falls, Minn. Filed Sept. 23, 1918. Serial No 255,323. 1 Claim. (Cl. 123—154.)



In a spark plug, the combination with a stem having a bore enlarged at its inner end into a socket, a thimble around and insulated from the stem and having a bridge across its inner end, and a fixed contact carried by said bridge: of a movable contact slidably mounted in said socket and having a transverse notch, a spring between the bottom of the socket and the contact urging the latter toward the fixed contact, a pin across said notch, a rod extending through said bore and having an eye entering said notch and engaged by the pin, an armature connected with the upper end of the rod, and an electro-magnet carried by the stem and adapted to act on said armature.

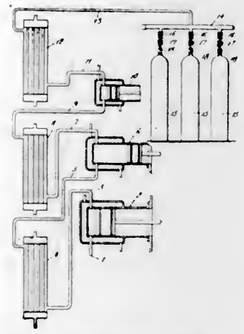
1,339,430. EGG-CASE. JAMES B. WHITE, Fort Wayne, Ind. Filed Apr. 16, 1919. Serial No. 290,526. 2 Claims. (Cl. 229—14.)

1. In a shipping case for eggs, a shell adapted to form the front, bottom, back and lid of the case composed of a sheet of tough, thick paper-board, upon the inner face of which corrugated paper is superimposed, the corrugations of those portions of the paper on the bottom and lid being coarser than those portions on the front and back, there being portions of the corrugated paper



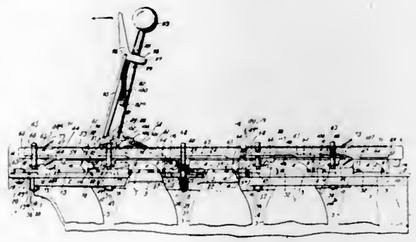
that are impressed against the paper-board forming a gain at each end of the shell and at its middle; and members fitting in the gains and secured to the shell to form the respective ends of the case and partition therein.

1,339,431. COMPRESSION, STORAGE, &c., OF ETHYLENE. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Company, New York, N. Y., a Corporation of West Virginia. Filed June 6, 1919. Serial No. 302,209. 7 Claims. (Cl. 23—11.)



1. A commercially transportable metal cylinder containing compressed ethylene which can be safely stored handled, shipped and used, said cylinder having its interior free from absorbent filler and solvent and containing the ethylene compressed to a high pressure, the amount of thylene being more than one and one-half times the amount of hydrogen in a cylinder of the same size under the same pressure; substantially as described.

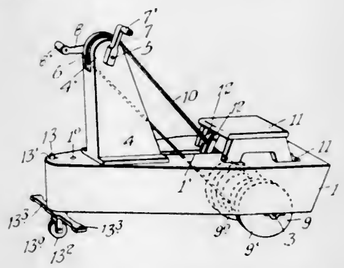
1,339,432. BOMB-DROPPING DEVICE. JOHN H. BARR, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 17, 1917. Serial No. 197,038. 66 Claims. (Cl. 244—1.)



1. In a machine of the character described, the combination with a plurality of bombs or other missiles, of

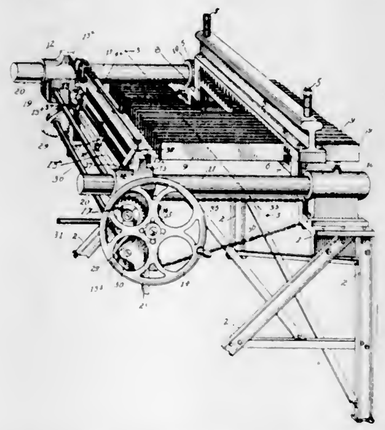
separate holding means for each bomb comprising a pivoted gripper, a device for positively preventing said gripper from turning on its pivot, a latch for said device, and means operative by a single hand piece for throwing said latch out of use and for moving said device to turn said gripper.

1,339,433. MANUALLY-PROPELLED TOY CAR. JOHN COLLISON BROWN, Niagara Falls, Ontario, Canada. Filed May 22, 1919. Serial No. 298,884. 5 Claims. (Cl. 208—32.)



1. In a toy car, the combination with the car body, a pulley wheel and belt for driving the same, of a depressible seat actuated by the weight of the operator of the car for exerting tension upon said belt.

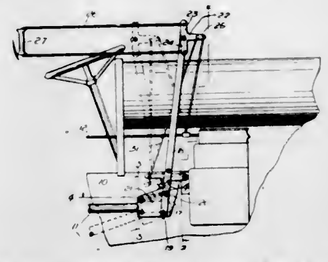
1,339,434. MACHINE FOR ASSEMBLING RADIATOR-CORES. THOMAS N. COFFELDER, Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1918. Serial No. 227,261. 12 Claims. (Cl. 29—84.)



1. In a machine for assembling radiator cores comprising tubes and slotted fins, the combination with a series of mandrels arranged to support the required number of tubes, of means for supporting a fin with the slots therein in register with the ends of the tubes on said mandrels, means for moving said fin and tubes relatively to position the tubes in the slots in said fin, and means to secure said fin and tubes together.

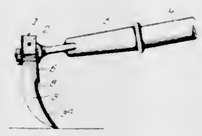
1,339,435. CLUTCH AND FUEL-SUPPLY CONTROL MECHANISM. EDGAR V. COLLINS and FRED T. COLLINS, Ames, Iowa. Filed July 8, 1919. Serial No. 309,397. 4 Claims. (Cl. 74—107.)

1. In a device of the class described; the combination of a clutch controlling lever, and a supply control member; with a controlling mechanism including a handle operatively connected with said clutch controlling lever and said fuel control member; the parts being so con-



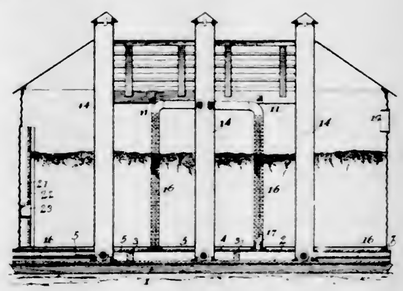
structed that by the manipulation of said handle the clutch may be controlled and the fuel supply control member may be controlled; and a locking device for the clutch lever controllable from said handle.

1,339,436. RAKE. ALBERT I. CONRAD, Pasadena, Calif. Filed Dec. 15, 1919. Serial No. 345,106. 2 Claims. (Cl. 55—39.)



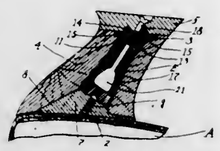
1. In a rake, the combination of a handle, a cross-member, tines disposed along said cross-member, and a blade mounted on said cross-member and extending transversely of and in contact with the front faces of said tines, said blade having a sharpened lower edge disposed substantially midway between said cross-member and the ends of said tines.

1,339,437. GRAIN-STORAGE BIN. LIZZIE H. DICKELMAN, Forest, Ohio. Filed May 14, 1918. Serial No. 234,441. 11 Claims. (Cl. 98—26.)



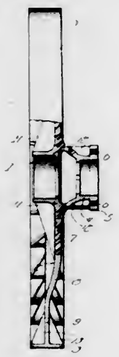
10. A storage bin, comprising a sheet metal receptacle with air openings around the bottom, and including spaced main and sub flooring, a plurality of ventilating pipes disposed in the receptacle with extensions through the main floor, and mounting means on the sub-floor; lateral air pipes in said space leading to said extensions, perforated air conducting pipes disposed about each ventilating pipe with thimble connections to the main floor where they are closed and leading to the respective ventilating pipes, a metallic flooring covering the main floor and holding said thimble connections in place, and means for connecting said flooring to the sheet metal receptacle beneath said air openings.

1,339,438. SHOE-HEEL. PHILLIP DICK, St. Paul, Minn. Filed Nov. 24, 1919. Serial No. 340,245. 5 Claims. (Cl. 36—42.)



1. In a shoe heel, the combination with the sole, of a metallic skeleton structure adapted to fit over and be secured to the outside of the heel portion of the sole, said structure including two oppositely disposed outwardly extending spring arms, a hollow heel member fitting over said skeleton structure and engaging under stress said spring arms, and coöperating shoulders on said heel member and said spring arms respectively whereby said heel members and said spring arms are held interlocked.

1,339,439. WHEEL. VIRGIL L. DOWNING, Kenosha, Wis., assignor to Winther Motor Truck Company, Kenosha, Wis., a Corporation of Delaware. Filed July 30, 1919. Serial No. 314,265. 1 Claim. (Cl. 21—69.)

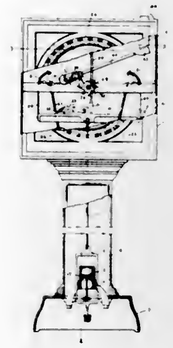


A cast wheel comprising a hub, a disk integral with said hub, a felly band integral with said disk, a plurality of radially disposed reinforcing webs connecting said hub and disk, and a plurality of integral webs equidistantly spaced about the periphery of said disk on opposite sides thereof and joining the inner face of said felly band to the marginal portion of said disk.

1,339,440. WEIGHING-SCALE. FRANK P. DUNN, Anderson, Ind., assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 14, 1914. Serial No. 877,105. 9 Claims. (Cl. 265—68.)

1. In a weighing scale, load-actuated weighing mechanism, indicating means, a rigid link pivotally connecting the indicating means and the load-actuated mechanism, whereby substantially independent movement of the load-actuated mechanism is permitted, means whereby said indicating means is normally held in inoperative position, and means for releasing said indicating means from its inoperative position.

2. In a weighing scale, load-actuated weighing mechanism, indicating means, including a movable rack, a rigid link pivotally connecting said rack with the load-actuated mechanism, whereby substantially independent movement of the load-actuated mechanism is permitted, means whereby said indicating means is normally held in inoperative position, and means for releasing said indicating means from its inoperative position.

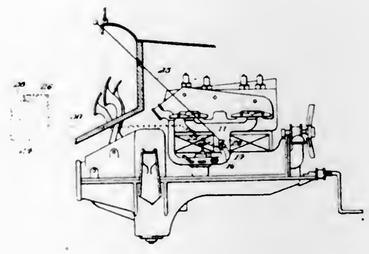


3. In a weighing scale, load-actuated weighing mechanism, indicating means, including a movable rack having a weight thereon, a rigid link pivotally connecting said weight with the load-actuated mechanism, whereby substantially independent movement of the load-actuated mechanism is permitted, means whereby said indicating means is normally held in inoperative position, and means for releasing said indicating means from its inoperative position.

4. In a weighing scale, load-actuated weighing mechanism including an equalizing bar, indicating means, a rigid link pivotally connecting the indicating means with said equalizing bar, whereby substantially independent movement of the load-actuated mechanism is permitted, means whereby said indicating means is normally held in inoperative position, and means for releasing said indicating means from its inoperative position.

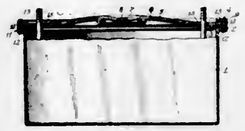
5. In a weighing scale, load-actuated weighing mechanism, indicating means including a pinion, a rack engaged therewith, a weight carried by said rack having its center of gravity out of alinement with that of said rack to hold the rack in close engagement with the pinion, a link connection between said weight and the load-actuated mechanism, means whereby said indicating means is normally held in inoperative position, and means for releasing said indicating means from its inoperative position.

1,339,441. GAS-SAVER. GEORGE EAGAR, Dunboyne, Ontario, Canada. Filed Mar. 26, 1919. Serial No. 285,398. 8 Claims. (Cl. 158—36.)



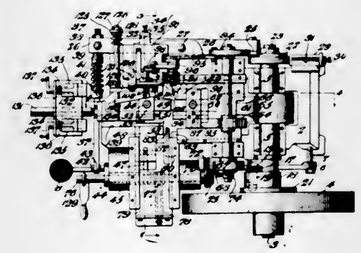
1. In combination with a gasolene tank having a vent opening, and the manifold of an internal combustion engine, a valve body secured to the manifold and having its passageway communicating with the manifold a valve in said body, operating means for said valve, and connections between the vent opening of the gasolene tank and said valve body.

1,339,442. STORAGE-BATTERY CELL. JACOB C. EICHHORN, Detroit, Mich. Filed June 3, 1918. Serial No. 238,028. 2 Claims. (Cl. 215—87.)



1. In battery cell constructions and in combination, a jar body having an open top, a cover therefor having its middle portion crowned upwardly, said crowned portion having a depression on its upper face and a depending rib on its lower face surrounding the depressed portion, said depressed portion having a vent opening, and means for securing the cover in position, the location of said means preventing its interference with the free operation of the vent opening.

1,339,443. MACHINE FOR FORMING SPRING-EYES. WILLIAM EVANS, Philadelphia, Pa., assignor to John Evans' Sons, Philadelphia, Pa., a Firm composed of William Evans, Robert Evans, and John H. Evans. Filed Aug. 22, 1919. Serial No. 319,070. 22 Claims. (Cl. 29—7.)



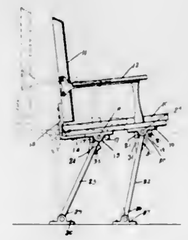
2. In an eye-making machine, means for producing a complete eye in two operations, comprising means for forming a half turn on the end of the blank and cutting a scarf thereon, means for subsequently making a complete turn at the end of said blank, thereby forming the complete eye and means for inserting and withdrawing a pin with respect to said eye to finish the latter.

1,339,444. PICTURE HANGER AND HOOK REMOVER. MANTON M. FERGUSON, Des Moines, Iowa. Filed Sept. 16, 1918. Serial No. 254,320. 1 Claim. (Cl. 294—24.)



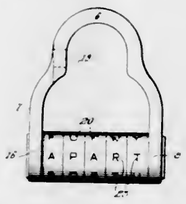
In a device of the class described, a handle member having secured thereto at one end, a combined window opener and picture hook remover, comprising a vertical shank, a radially extending arm at the upper end thereof, the upper edge of said arm being curved to form the semicircle recess adapted to receive the curved portion of a picture hook, and a downwardly extending projecting lug at the outer end of said arm, whereby the upper curved surface may selectively receive a picture hook and hold the latter in place, and may receive an edge of a recess in a window sash in such manner that an upward thrust on the handle will tend to force the arm into said recess, and the lug may engage the opposite edge of the recess in a sash to prevent the arm from slipping out of said recess when the handle is pulled downwardly.

1,339,445. OPERA-CHAIR. FRANK FESSLER, Des Moines, Iowa. Filed Apr. 10, 1918. Serial No. 227,811. 1 Claim. (Cl. 155—13.)



In a device of the class described, an opera chair having a seat member, bearings disposed adjacent to the front and rear edges of the seat member in position spaced from each other and secured to the bottom of the seat member, supporting members pivotally mounted in said members comprising elongated strips of material, means for pivotally connecting the lower ends of said supporting members to the floor, stop devices extending downwardly from said bearings at either side thereof, means for adjusting the relative vertical position of the contact surfaces of each of said stop members and shoulders of substantially triangle shape formed integral with said supporting members and extending laterally therefrom, to a position where the upper surfaces of said shoulders may contact with said stop members, the parts being so arranged that the engagement of each of the stop members with the shoulders may be independently adjusted and the shoulders may form reinforcing members to prevent buckling of the supporting members.

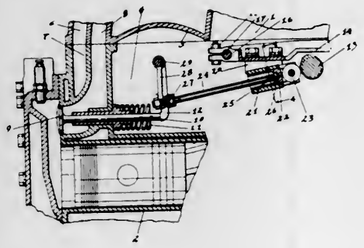
1,339,446. PERMUTATION-LOCK. ANTONI B. FIDROCKI, Lynn, Mass. Filed Dec. 16, 1919. Serial No. 345,389. 1 Claim. (Cl. 70—19.)



A permutation lock of the type described comprising a shackle, a tubular screw carried thereby, tumbler supporting members upon said screw, said screw and the tumbler supporting members having registering openings, a bolt slidably received in said tubular screw, projections carried by the bolt extending through the bolt slot, an arm carried by the bolt coöperating with the shackle and rotating tumblers supported on said supporting members and having inwardly directed V-shaped projections ex-

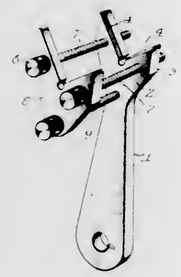
tending into the spaces between the projection on said bolts to hold the bolt immovable relative to said screw, the projections on said tumblers having openings therein adapted to be brought into registration with the bolt slot to permit a sliding movement of the bolt with the projections carried thereby movable through the openings in the tumbler projections.

1,339,447. INTERNAL-COMBUSTION ENGINE. EDWARD A. FIELD, Jr., Grand Rapids, Mich., assignor of one-half to Edward A. Field, Sr., Chicago, Ill. Filed Apr. 17, 1919. Serial No. 290,738. 12 Claims. (Cl. 123—56.)



12. The combination with an internal combustion engine having opposed cylinders, of a cam shaft disposed between the cylinders, valves for said cylinders, a supporting frame removably mounted above the cam shaft, and valve actuating members coacting with the cams of said cam shaft carried by said frame.

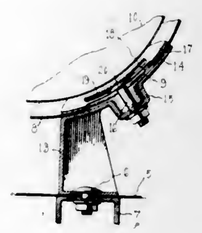
1,339,448. BUSHING-HOLDER. VIKTOR FORSMAN and EDWARD DANIELSON, Detroit, Mich. Filed Apr. 28, 1919. Serial No. 293,175. 1 Claim. (Cl. 81—18.)



A bushing holder comprising heads each having diverging jaws shaped to receive the end edges of a bushing, said heads being reversible, connecting means for said heads, said connecting means including two screws extending through the jaws of both heads and a single screw extending through one head and engaging the other head, and a handle carried by one of said heads.

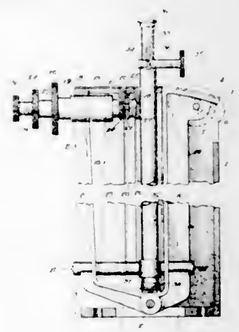
1,339,449. ADJUSTABLE LAMP-SUPPORT FOR MOTOR-VEHICLES. RAY A. FRISBIE, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 16, 1919. Serial No. 317,952. 4 Claims. (Cl. 248—20.)

1. In an adjustable support for automobile lamps and in combination with a lamp body or casing substantially spherical in form and having an elongated slot in its wall, a supporting bracket having an inclined or angularly disposed supporting portion or plate substantially circular in outline and a centrally disposed projection or boss, and which supporting portion is concave in form and corresponds in curvature with the curvature of the spherical wall of the lamp body; a reinforcing plate substantially spherical in form located within said lamp



body and having an elongated slot adapted to register with the slot in said casing; two retaining lugs extending substantially parallel with said slots, and which lugs are struck up from the said reinforcing plate and bent toward one another and toward said slots; and a bolt having a head lying beneath and retained in place by said retaining lugs and which bolt extends through the slots aforesaid and through a hole provided in said boss to thereby secure said lamp body in place and to said bracket.

1,339,450. RANGE-FINDING AND SIGHTING INSTRUMENT. PAUL GERLI and OSCAR A. ROSS, New York, N. Y. Filed Mar. 9, 1918. Serial No. 221,497. 4 Claims. (Cl. 33—46.)

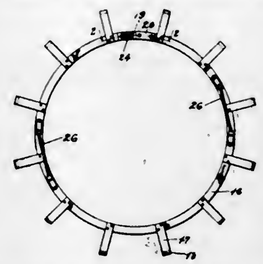


1. A sighting instrument for bombing aeroplanes comprising in combination, a frame pivotally mounted on the aeroplane, a plurality of quadrants pivoted to said frame, thumb screws and gears engaging therewith for laterally adjusting the same, a telescope carried by one quadrant, and dial cards having zero lines and figures representing altitude, speed, windage and other data respectively carried by the other quadrants.

1,339,451. CENTERING-RING FOR TIRE-BEADS. WILLIAM F. GOFF, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1918. Serial No. 268,119. 6 Claims. (Cl. 154—9.)

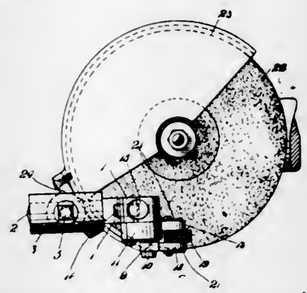
1. A tire bead-positioning gage having a circular series of relatively widely spaced bead-base-engaging abutments

exposed or unobstructed at their outer ends in an axial direction to permit an endless inextensible bead-core ring



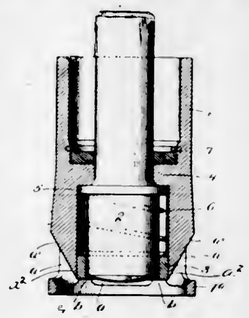
to be slid into position thereover against the side of the partially completed tire.

1,339,452. DRESSING-TOOL FOR GRINDING-WHEELS. EDWIN T. GORHAM, Grand Rapids, Mich., assignor to Wilmarth & Morman Company, Grand Rapids, Mich., a Corporation of Michigan. Filed May 17, 1917. Serial No. 169,225. 6 Claims. (Cl. 125—11.)



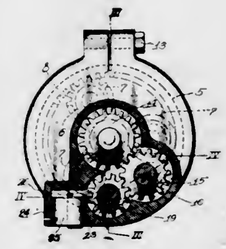
3. In combination with a rotatably mounted grinding wheel, a hood therefor, a tool loosely and pivotally mounted on the hood to turn about an axis paralleling the axis of rotation of the wheel, said tool passing across the face of the wheel and including a dressing cutter adapted to be brought against the face of the wheel and also including means for manually adjusting the cutter toward or away from the face of the wheel, substantially as described.

1,339,453. STAYBOLT-HEADING ATTACHMENT FOR PNEUMATIC HAMMERS. ELIAS OLIVER GAIMES, Jr., Westminster, and OREN F. BALTZLEY, Hagerstown, Md., assignors to The Liberty Tool Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 20, 1919. Serial No. 283,750. 3 Claims. (Cl. 78—46.)



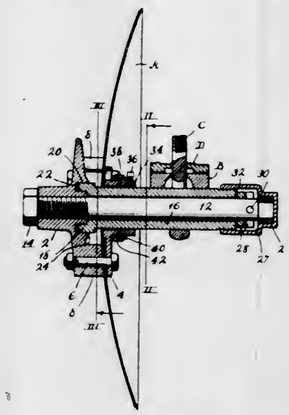
1. In combination in an attachment for pneumatic hammers a casing having a socket at its upper end to receive the hammer barrel, a ram within the casing, said casing having a downwardly extending flange concentric with the ram to bear upon the side of the rivet head, and having also an opening inclining downwardly and inwardly through its body and within the circuit of the flange leaving an inner guard portion depending across the level of the mouth of the opening, substantially as described.

1,339,454. GEAR REDUCTION AND LOCK FOR STEERING APPARATUS. NELSON HALL, Detroit, Mich., assignor of one-half to Alfred Cant, Detroit, Mich. Filed Oct. 8, 1919. Serial No. 329,387. 7 Claims. (Cl. 74—79.)



1. In a steering column assembly, a steering shaft, an offset steering wheel, gears adapted to transmit movement to said steering shaft from said steering wheel, and means adapted to lock said gears against movement by said steering wheel.

1,339,455. DISK-BEARING. JAMES E. HEINTZ, Elkhart, Kans. Filed Sept. 23, 1919. Serial No. 325,701. 6 Claims. (Cl. 64—66.)

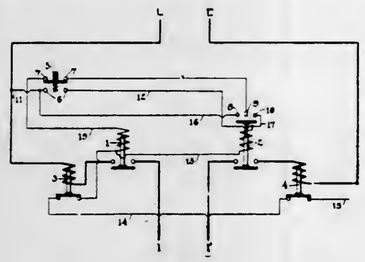


1. In combination with a disk, a stationary tubular bearing, an axle journaled in said bearing, a hub consisting of two members one of which is secured to the concaved side of the disk, the other being secured to the convexed side of the disk and the axle, and spacing means with intervening openings on the last-mentioned hub member to hold the main portion thereof from the disk.

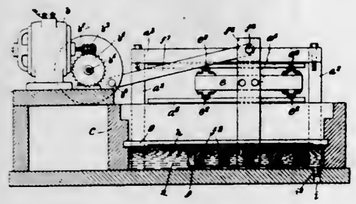
1,339,456. CIRCUIT-CONTROLLER. CLARK T. HENDERSON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 5, 1915. Serial No. 32,424. 9 Claims. (C. 175—294.)

4. In combination, a plurality of electro-responsive line switches, a controller therefor, automatic tripping

means for said switches and circuit connections necessitating a number of progressive operations of said controller to effect energization of said switches after tripping of either.

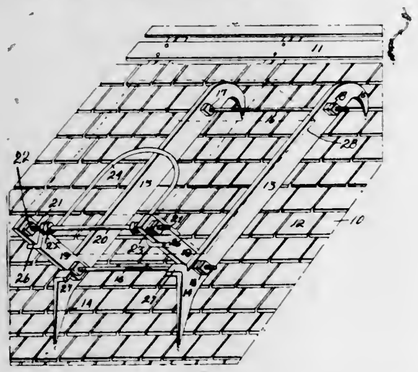


1,339,457. ETCHING APPARATUS. CARL R. HENDRICKS, Jersey City, N. J. Filed Mar. 8, 1919. Serial No. 281,508. 3 Claims. (Cl. 41—9.)



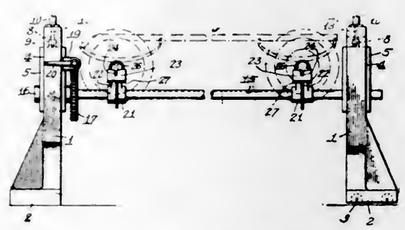
1. An apparatus of the class described comprising in combination a tank, a stirring device mounted to reciprocate longitudinally in said tank, said stirring device comprising an open frame work composed of side bars and a plurality of transverse bars or vanes of like cross section, having rounded top edges and which are equally spaced from each other.

1,339,458. DEVICE FOR HOLDING SHINGLES. JACOB JANSMA, Hospers, Iowa. Filed May 29, 1919. Serial No. 300,533. 1 Claim. (Cl. 304—20.)



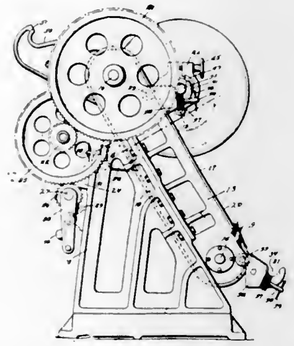
In a shingle holder adapted to be used upon a roof or other inclined surfaces, comprising a supporting platform having claw members extended downwardly therefrom for engagement with the inclined surface, a pair of upwardly extending arms pivoted to said supporting platform, stops formed on said platform for limiting the pivotal movement of said arms, the stops being so placed that the supporting platform and arms form a substantially right angle, whereby a bunch of shingles placed upon the platform will rest against the arms, and be held there, a resilient yoke member extending forwardly from and pivoted to said arms, so that it will rest upon the upper surface of the bunch of shingles and yieldingly hold them in place, the arms and yoke being adapted to be moved to position substantially parallel with the supporting platform, when the holder is not being used.

1,339,459. AUTOMOBILE-JACK. ANDREW S. LA CHAPELLE, Detroit, Mich. Filed Jan. 17, 1919, Serial No. 271,554. Renewed Mar. 15, 1920. Serial No. 366,041. 7 Claims. (Cl. 254—84.)



1. A device for the purpose specified, comprising a pair of oppositely disposed supports, heads shiftable up and down the supports, means for raising and lowering the heads on the supports, and axle supporting means connecting the heads in which they are journaled adapted to be turned therein into any angular relation.

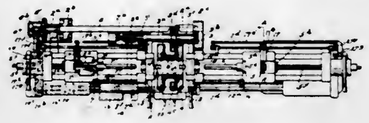
1,339,460. DELIVERY-STAND FOR ROLLED MATERIAL. SAMUEL M. LANGSTON, Wenonah, N. J., assignor to Samuel M. Langston Company, Camden, N. J., a Corporation of New Jersey. Filed May 31, 1919. Serial No. 301,029. 29 Claims. (Cl. 242—58.)



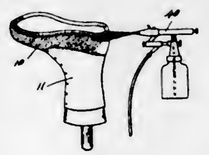
1. A delivery stand for rolled material, including a roll supporting shaft, a pair of endless conveyers having bearings for receiving and supporting opposite end portions of said shaft, means for operating said conveyers to raise said shaft, and means for adjusting said shaft axially in respect to said bearings.

1,339,461. DRILL-MACHINE. ERNEST J. LEES, Cleveland, Ohio, assignor to The Lees-Bradner Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 19, 1915. Serial No. 15,457. 16 Claims. (Cl. 77—21.)

1. In a machine of the character described, the combination of a support, a rotatable holder for holding a piece of work, a drill slidably mounted upon said support axially of the hole to be drilled through the piece of work, means for feeding the drill toward the piece of work, means for rotating said workholder, and means, including a rotatable member and a plunger operated thereby for throwing out the feeding means for said drill when the latter becomes inoperative.



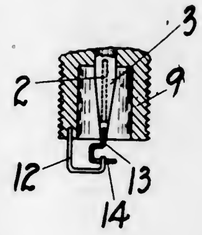
1,339,462. PROTECTING-COVERING FOR BOOTS AND SHOES AND OTHER ARTICLES AND METHOD OF PREPARING SAME. ERNEST LIONNE, Needham, Mass., assignor of one-fourth to A. E. Reinhardt, Lynn, Mass., one-fourth to W. J. De Witt, and one-fourth to S. J. Heinrich, Newton, Mass. Filed July 5, 1918. Serial No. 243,499. 14 Claims. (Cl. 91—68.)



1. A shoe having protecting means for its surface consisting of a layer of material formed on the articles of substantially uniform thickness and great density and composed of finely divided particles forcibly compacted together and to the surface, and adhesively secured together and to the surface, and conforming to all irregularities in the surface, said layer being strong and durable to withstand manipulation, and friable to admit of its being removed in fragments by mechanical means.

12. The method of temporarily protecting the surface of an article, which consists in applying a thick, viscous fluid composition in a finely divided state to the surface to be protected to produce thereon a layer of dense formation, drying said layer and subsequently removing said layer in fragments.

1,339,463. SPARK-PLUG. ARTHUR ERNST CHRIST LOCKEWITZ and EDWARD WILHELM MAX LOCKEWITZ, Bloomington, Ill. Filed Feb. 21, 1919. Serial No. 278,544. 1 Claim. (Cl. 123—169.)



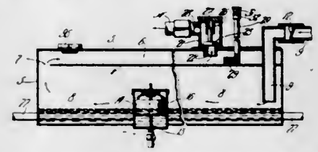
In a jump-spark plug for internal combustion engines, a central insulated electrode formed at its inner end with a parallel offset portion terminating in a right-angularly disposed loop and an outer grounded electrode extending beyond the loop of the insulated electrode and formed with a spaced terminal extending outwardly through and beyond the center of said loop, substantially as and for the purpose specified.

1,339,464. METALLIC WINDOW-SCREEN. EDWARD LUFT, St. Louis, Mo. Filed Feb. 10, 1919. Serial No. 276,026. 2 Claims. (Cl. 156—38.)



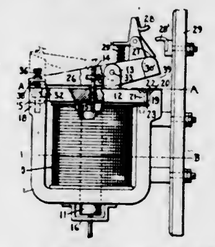
1. An improved adjustable sheet-metal window-screen, comprising top and bottom slide-bars extending the full length of the screen-frame to which they are attached, and a pair of sheet-metal screen-frames carrying woven-wire fabric and slidingly-connected to said top and bottom slide-bars.

1,339,465. ECONOMIZATION OF HYDROCARBON-ENGINE FUEL. FREDERICK LUKE, Geelong, Victoria, Australia, assignor of one-fourth to Henry Isaac Grawcour, Geelong, Victoria, Australia. Filed July 25, 1918. Serial No. 246,749. 3 Claims. (Cl. 123—119.)



1. The combination of a liquid fuel container having a horizontal partition within it which divides its interior into a lower or fuel compartment, and an upper or fumes compartment, said compartments being disposed longitudinally of the container and being in free communication with each other at one end of the container; means at the other end of the container for admitting air into the fuel compartment; an outlet pipe for the fumes leading from the fumes compartment adjacent the last-named end of the container; and means for creating a difference in pressure between the air inlet and the fumes outlet to induce a current of air to enter the fuel compartment and travel from end to end of the same in one direction to be impregnated with the vapors of the fuel, and thence to travel in the opposite direction from end to end of the fumes compartment and thence through the outlet pipe.

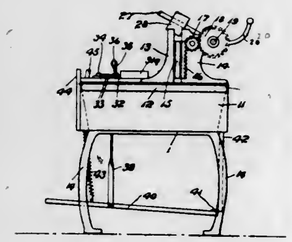
1,339,466. CONTROLLING MEANS FOR ELECTRIC CIRCUITS. WALTER O. LUM, Amsterdam, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 27, 1911. Serial No. 611,151. 20 Claims. (Cl. 172—288.)



17. A circuit to be controlled, a switch including a switch member controlling the circuit, a magnetic path in

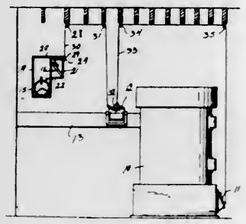
which flux is set up by the current in said circuit to hold the switch member from operating to close the switch when the current is relatively high but permitting the switch member to close the switch when the current is relatively low, and a magnetic path in which flux is set up by the current in said circuit to hold the switch member closed.

1,339,467. GLUING-MACHINE. GEORGE MCCONNELL, Grand Rapids, Mich. Filed Apr. 1, 1919. Serial No. 286,751. 11 Claims. (Cl. 91—47.)



3. In a machine of the character described, a support, a glue tank carried by the support, a bar located above the tank, means for mounting the bar for vertical movements thereof with respect to the support and tank, means for elevating the bar, and a plurality of glue members carried by the bar at spaced apart intervals in the length thereof, said members immersing in glue in the tank when the bar is in lower position and rising above the glue when the bar is in upper position.

1,339,468. TIME-CONTROLLED FURNACE-REGULATOR. HARVEY A. MAILLOUX, Haverhill, Mass. Filed June 11, 1919. Serial No. 303,415. 4 Claims. (Cl. 161—8.)

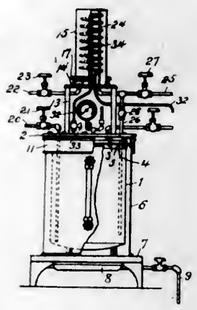


1. A controlling mechanism including a supporting frame having a trap door pivoted at one end, a trigger mounted on said frame adjacent the free end of the door and normally engaging the door, a time controlled mechanism carried by said frame and engaged with said latch to cause it to release at a predetermined moment, and a weight resting upon the door and having a flexible connection extending therefrom, a latch mounted upon said frame with which said flexible connection is engaged to cause the retraction of the latch upon the fall of the weight, and a second flexible connection having a member with which said latch normally engages.

1,339,469. IRON COMPOSITION. GEORGE G. MARX, Detroit, Mich. Filed June 16, 1919. Serial No. 304,488. 6 Claims. (Cl. 75—50.)

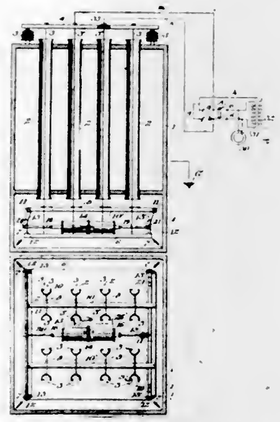
1. An iron and steel alloy made from pig iron, steel and scrap cast iron and including as an essential ingredient a clay product.

1,339,470. COMBINATION BOILER AND STILL. ROBERT S. MEARS, Arkansas City, Kans. Filed Jan. 2, 1919. Serial No. 269,254. 5 Claims. (Cl. 203—5.)



5. In a water heating apparatus, a boiler comprising an upright body having an open top and provided adjacent to said top with an annular peripheral flange, a cover for closing said top, and bolts connecting said flange and cover, an annular band embracing said flange, and a casing encircling and spaced apart from said body intermediate of said body and said band and spaced apart from the latter, the upper edge of the casing supporting said bolts and being spaced apart from said flange, thereby forming a flue space for gaseous products of combustion through which said products of combustion can pass upwardly between the casing and the body, thence over the upper edge of the casing, and thence downwardly between the casing and the band.

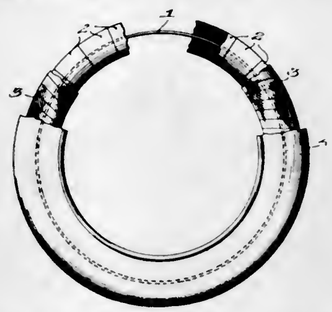
1,339,471. MEANS FOR REMOVING DEPOSITS FROM ELECTRODES. ARCHIBALD F. MESTON, New York, N. Y., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1917. Serial No. 198,157. 12 Claims. (Cl. 183—7.)



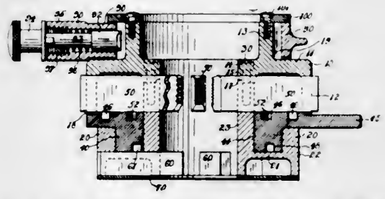
1. In an electric precipitator comprising a collecting electrode and a discharge electrode, means for striking the discharge electrode intermediate its ends to cause vibration thereof.

1,339,472. RUBBER TIRE-FILLER WITH A FLEXIBLE METAL CABLE IN THE CENTER. MOSES W. NEEDHAM, Waco, Tex. Filed Oct. 7, 1918. Serial No. 257,279. 2 Claims. (Cl. 152—5.)

1. In a reinforced rubber tire filler, the combination of a nonstretchable but flexible cable in the form of a complete ring, strips of rubber successively wound over said cable to provide resilient cores of the necessary size, said strips being secured against unwinding, and a fabric element wound spirally over said resilient cores, the completed device being of sufficient flexibility to admit of its insertion in a tire casing, for the purposes described.

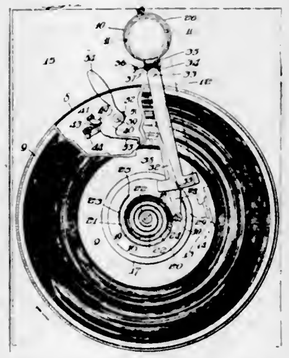


1,339,473. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed May 3, 1918. Serial No. 232,197. 12 Claims. (Cl. 10—122.)



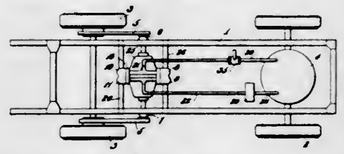
1. In a die stock, the combination, with a frame, of two sets of chasers, the individuals of one set being interspersed with those of the other, a single set of guide blocks common to both sets of chasers, and a common positioning device for the guide blocks and chasers, said positioning device comprising a rotative plate located between the chasers and guide blocks and having on one side a set of cam shoulders each of which engages two adjacent chasers and on the other side a set of cam shoulders each of which engages a guide block.

1,339,474. STOPPING DEVICE. ALFRED POGANY, Philadelphia, Pa., assignor of one-half to Anthony Gabriel, Philadelphia, Pa. Filed July 21, 1919. Serial No. 312,242. 6 Claims. (Cl. 74—46.)



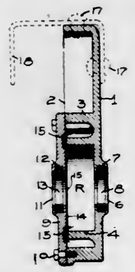
5. The combination with sound reproducing mechanism including means for rotating a record and reproducing means for engagement with said record; of means adapted to be placed on said record and rotatable therewith, said means having a continuous helical and spiral portion; two arms adapted to support said reproducing means, one of said arms being pivotally connected to the other; means for moving one of said arms relatively to the other, one of said arms having a portion for engagement with said helical and spiral portions, the other of said arms having means for abutment with a part of said sound reproducing means, whereby the movement of said sound reproducing means in playing a record will effect the movement of said arms and cause said portion on one of the arms to engage said helical portion and be raised thereby, due to the rotation of said record, and raise the sound reproducing means, and afterward move into said spiral portion; a rotatable collar to which said means are hinged; a lever connected to said collar; a pivoted plate having an eccentric portion; a detent lever; a latch normally held between said detent lever and a portion of said plate; a brake shoe movable by said plate; and a spring for holding said detent lever in engagement with said latch, said first lever being operative to move said plate to cause said eccentric portion to move said latch out of engagement with said detent lever and thereby permit said spring to move said plate and thereby cause the brake shoe to automatically effect the stopping of said record; substantially as described.

1,339,475. MOTOR-VEHICLE DRIVE. JOSEPH W. PROSSER, New York, N. Y. Filed Aug. 5, 1919. Serial No. 315,544. 5 Claims. (Cl. 180—67.)



1. In apparatus of the character described, the combination of a frame, two independently rotatable traction wheels, driving shafts therefor, a unit comprising two independent pneumatic reciprocating engines, one connected to one of said shafts and the other connected to the other of said shafts to rotate the same, a common chest for supplying motive fluid to said engines, separate valves for said engines, operably mounted in said chest, and means for supplying motive fluid to said chest as desired.

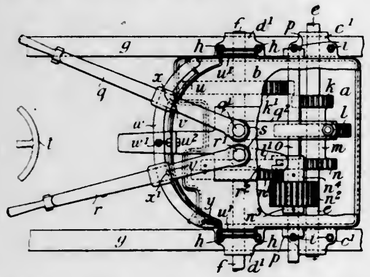
1,339,476. CARRIER-BEARING. FRANK P. SAWDERS and JAMES G. MURRAY, Pittsburgh, Pa. Filed Dec. 2, 1919. Serial No. 341,950. 2 Claims. (Cl. 64—24.)



1. A vertically disposed member adapted at its upper end to be fixedly attached to a support and having on its lower portion an integral flanged shaft bearing pocket within which is formed a shaft opening, said flanged pocket being surrounded by a second integral flange forming therebetween an oil reservoir, a cover having a shaft opening therein and secured over and forming a remov-

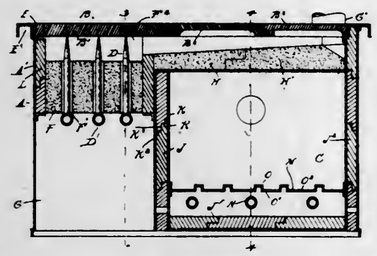
able head for both the reservoir and pocket and adapted to engage and clamp a bearing in said pocket, and dust excluding washers in said shaft openings, said pocket communicating with the reservoir by ports disposed thereabout at the cover side thereof.

1,339,477. CHANGE-SPEED GEARING. HERBERT PERCY SAUNDERSON, Bedford, England. Filed Apr. 1, 1918. Serial No. 226,066. 4 Claims. (Cl. 74—58.)



1. In a progressive change speed and reverse gear set, the combination with a box made of two main parts, bearings formed partly in the lower and partly in the upper main paft, a first shaft and a second shaft mounted in said bearings, a unitary group of slidable gears mounted on the first shaft, gears mounted on the second shaft adapted to be engaged by some of the gears of said group, a shiftable reverse gear mounted in the upper part of the box and adapted to be engaged with one of the gears of said group and with the last named gear on the second shaft, independent shifting levers pivoted about normally vertical axis and shiftable normally horizontally for engaging said gears in different relations, and locking mechanism for preventing movement of one of said levers while another lever is out of neutral position.

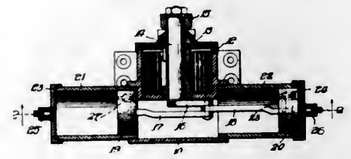
1,339,478. RANGE. HENRY D. SCHALL, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed Nov. 30, 1917. Serial No. 204,533. 10 Claims. (Cl. 126—39.)



1. In a range, the combination with a top plate and an insulator block spaced beneath said plate, formed with a plurality of openings, of burners respectively positioned in said openings and spaced from the walls thereof to form restricted air passages, said burners discharging against said top plate.

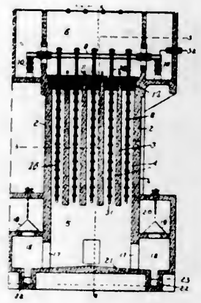
1,339,479. DOOR-CHECK. JOHN C. SCHMIDT, Chicago, Ill. Filed May 9, 1919. Serial No. 295,934. 3 Claims. (Cl. 16—88.)

3. In a pneumatic checking device, the combination of a shaft through which the checking effort is transmitted, a pair of cylinders, pistons in said cylinders, a crank on said shaft, pitmen connecting the crank to said pistons, said pistons being so arranged with relation to said crank that in an extreme position they occupy opposite ends of their respective cylinders, valves permitting unrestricted



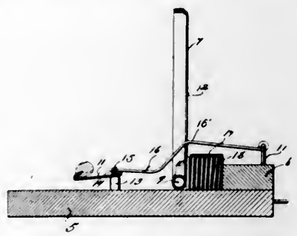
movement of the pistons in one direction, and means providing a permanently open, regulably restricted passage between the atmosphere and the interior of each cylinder, substantially as described.

1,339,480. ART OF SEPARATING SUSPENDED PARTICLES FROM GASES. WALTER AUGUST SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 27, 1917. Serial No. 188,453. 8 Claims. (Cl. 183—7.)



1. In the art of precipitating suspended particles from gases by electrical action, the method of maintaining a clean electrode surface for receiving the precipitated material, which consists in distributing a liquid in a film, over a porous surface constituting a receiving electrode.

1,339,481. SPRING-TRAP. CHARLES SCHROEDER, Neillsville, Wis. Filed Nov. 17, 1919. Serial No. 338,716. 6 Claims. (Cl. 43—81.)



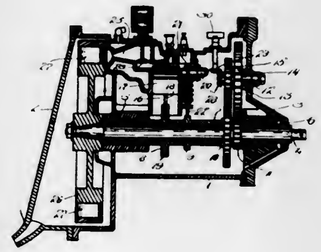
1. A trap of the class described comprising a base member, a jaw member pivoted on the base member and provided with a striking edge and with a holding edge disposed inwardly of the striking edge with respect to the pivot axis of the jaw, a bait tripper movably mounted on the base member, and a holding member mounted on the base member and detachably engageable with said bait trigger and with the holding edge of the jaw member.

1,339,482. SCAFFOLD-BRACKET. HENRY O. SEDERBURG, East Mill Creek, Pa. Filed Mar. 15, 1918. Serial No. 222,693. 2 Claims. (Cl. 304—20.)



1. In a scaffold bracket, the combination of an upright member; a horizontal member pivotally connected with the upright member; a brace member pivotally connected with the upright member at its lower end and its upper end extending to and engaging the under side of the horizontal member when the horizontal member is at right angles to the upright member; means for securing the end of the horizontal member to the brace member at an intermediate point in the brace member to lock the horizontal member in an inclined position with its end engaging the side of the brace member to adapt the bracket for roof work; and a hook for supporting the bracket.

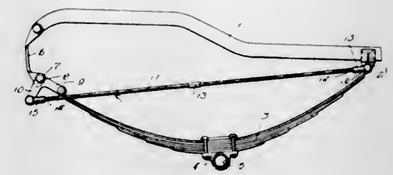
1,339,483. HYDROCARBON OR GASOLENE TURBINE-MOTOR. WILLIAM G. SIMPSON, Detroit, Mich. Filed Mar. 4, 1919. Serial No. 280,593. 2 Claims. (Cl. 60—13.)



1. In a device of the type described a casing, a shaft rotatably mounted within said casing, a sleeve rotatably mounted upon said shaft, a reducing gear train connecting said shaft and said sleeve and eccentric carried by said sleeve, a cylinder formed in said casing, a piston reciprocable therein, means connecting said piston and said eccentric whereby said piston is reciprocated when said sleeve is rotated, means for supplying a combustible charge to said cylinder, an exhaust valve for said cylinder adapted to be opened when the pressure in said cylinder exceeds the compression pressure thereof and a fly wheel secured to said shaft and extending into the path of the exhaust gases.

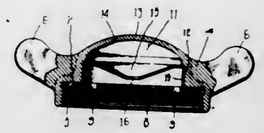
1,339,484. SHOCK-ABSORBER. GEORGE A. STARKWEATHER, Fort Madison, Iowa. Filed Aug. 9, 1918, Serial No. 249,064. Renewed Nov. 26, 1919. Serial No. 340,802. 11 Claims. (Cl. 267—19.)

1. In a shock absorber, a vehicle frame and a spring connected at one end thereof to the frame, and a connection at the other end of the spring including a lever with one arm pivoted to the spring and with the extremity



of the other arm pivotally connected to swing about the first-named end of the spring as a center.

1,339,485. GASOLENE-TANK-FILLER CAP. SAMUEL A. STRANAHAN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 18, 1919. Serial No. 324,341. 6 Claims. (Cl. 220—39.)



1. A gasolene tank cap of the class described comprising a main body portion interiorly threaded to engage an exteriorly threaded portion of a filling opening leading into a tank, said body portion having an internal annular seat at the inner end of said threaded portion, a chamber concentric with and above said seat, and a hole leading from said chamber to the external atmosphere; a perforated baffle plate located within the chamber aforesaid and extending across the same and having a cylindrical peripheral wall in contact with the interior of said chamber; and a perforated gasket located within said main body portion and the periphery of which is in engagement with said annular seat.

1,339,486. CONVEYER SYSTEM. FRANCIS LEE STUART, Greenwich, Conn. Filed Oct. 12, 1917. Serial No. 196,187. 135 Claims. (Cl. 193—24.)

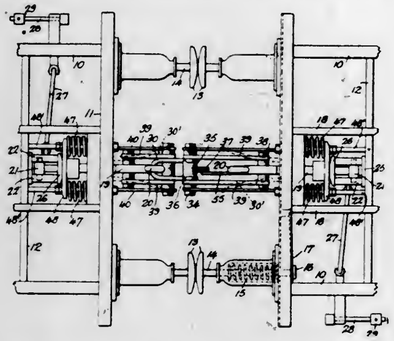


1. The combination in a conveyer system of a series of conveyers, means for driving the said conveyers, and a controller for automatically starting the said series in succession beginning with the delivery end of the system and stopping the series in succession in inverse order.

1,339,487. CAR-COUPLING. ELIEZER VINOGRAD and MAXIMILIAN GROTEN, New York, N. Y. Filed June 15, 1918. Serial No. 240,271. 6 Claims. (Cl. 213—5.)

1. In a car coupler, the combination with a longitudinally moving draw bar, of rods pivoted on the draw bar,

a link at the outer ends of the rods, means for elevating the rods, means for separately manipulating the links,



and means operated by a car for releasing the elevating and manipulating means.

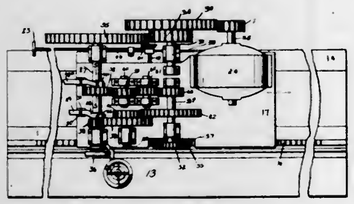
1,339,488. FIREPROOFING WOOD. HOWARD FREDERICK WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, a Corporation of Wisconsin. Filed Jan. 23, 1919. Serial No. 272,643. 8 Claims. (Cl. 99—12.)

1. A method of fire proofing fibrous material which comprises impregnating the material with an aqueous borate solution containing an excess of alkali, and then impregnating the material with a solution of a reagent capable of reacting with the first solution to precipitate an insoluble borate in said material.

1,339,489. RECOVERY OF ORGANIC PRODUCTS FROM WOOD. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 11, 1917, Serial No. 185,639. Renewed Oct. 21, 1919. Serial No. 332,251. 12 Claims. (Cl. 92—2.)

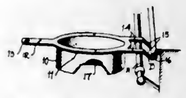
1. The method of recovering organic products from wood, which comprises subjecting the wood to a grinding operation with circulation of water to carry away the wood pulp, separating the water from the pulp, re-circulating the water during further grinding operations to increase the concentration of the organic products therein, and recovering the organic products from the concentrated liquor; substantially as described.

1,339,490. MILLING-MACHINE. ENOCH L. WILLIAMS, Marshalltown, Iowa. Filed July 8, 1918. Serial No. 243,860. 3 Claims. (Cl. 90—15.)



1. In a device of the class described, a bed including a guideway and a work supporting table adjacent thereto, a carriage mounted for longitudinal reciprocation in said guideway, a second carriage mounted on the first for lateral reciprocation relative thereto, a cutting tool mounted on the second carriage adapted to operate against work secured to the supporting table, and an adjustable device carried by the second carriage and adapted to press against the work on the supporting table adjacent to said cutting tool.

1,339,491. RECEPTACLE-SUPPORT. ALFRED C. AXBERG, Springvale, Me. Filed May 14, 1918. Serial No. 234,516. 2 Claims. (Cl. 126—333.)



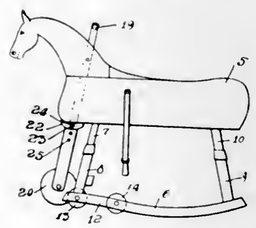
1. An article of manufacture comprising a receptacle support having a body and a supporting member projecting from the body, the outer end of the supporting member being bent slightly downward and then upwardly turned, said body being open at its top and bottom, the body being formed upon its inside face with a receptacle supporting flange.

1,339,492. DOOR-LATCHING MEANS. EDWARD H. BELDEN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 4, 1916. Serial No. 123,721. 16 Claims. (Cl. 292—221.)



1. A door latch comprising a yieldably mounted projecting strike member, a latch member and means separate from and operative with said latch member for preventing independent separating movement of said strike member.

1,339,493. ROCKING-HORSE. JOHN WILLIAM BELLAIRS, Mishawaka, Ind. Filed Nov. 17, 1919. Serial No. 338,508. 3 Claims. (Cl. 46—22.)



1. In a device of the class described, a body, parallel rocking elements, supporting the body, adjustable means providing connection between the body and rockers for securing the body to the rockers, wheel means for supporting the weight of the body, when the body is rocked forwardly, and means for guiding the body.

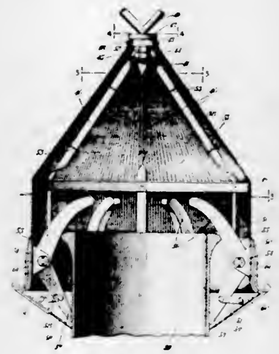
1,339,494. PROCESS OF AND APPARATUS FOR TREATING GAS MIXTURES CONTAINING OXIDS OF NITROGEN. CHARLES L. BURDICK, Sheffield, Ala. Filed Jan. 29, 1919. Serial No. 273,805. 9 Claims. (Cl. 23—1.)



1. The process of treating a gas mixture containing on or more of the oxids of nitrogen which comprises subjecting the gas mixture to catalytic oxidation, absorbing in an aqueous medium the nitrogen peroxid resulting from said oxidation, and removing the mist entrained in the gases resulting from said absorption operation.

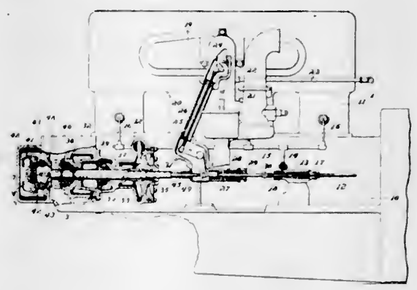
8. An apparatus for treating a gas mixture containing one or more of the oxids of nitrogen, comprising, in combination, a plurality of series connected units, each of said units including a precipitator and a catalytic oxidation chamber.

1,339,495. SPARK-ARRESTER. SAMUEL S. CASKEY, Philadelphia, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 13, 1915. Serial No. 66,444. Renewed Jan. 2, 1920. Serial No. 349,087. 13 Claims. (Cl. 183—62.)



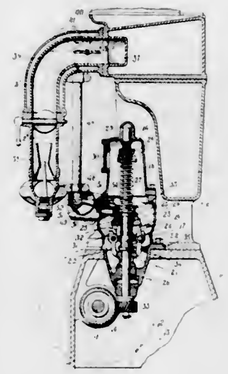
5. A spark arrester having a cover with openings, and means for supporting the same spaced from the top of the stack, comprising automatic closing devices adapted to be fitted against the side of the stack, including a stack supported lever, adapted to be fitted against the side of the stack by the downward movement of the cover, and a ball at the top of the spark arrester.

1,339,496. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 16, 1915. Serial No. 45,802. 11 Claims. (Cl. 123—108.)



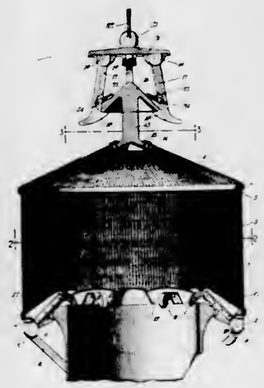
9. In a hydrocarbon motor, in combination, a motor throttle valve, a governor, a rod operated endwise by the governor, a swinging arm connected to said throttle valve and adapted to be operated by said rod, and a spring separate from said governor and acting directly against said arm to affect the operation of the governor.

1,339,497. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 26, 1916. Serial No. 105,880. 9 Claims. (Cl. 123—108.)



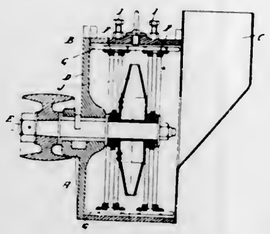
9. In a hydrocarbon motor, in combination, a crank case having an opening therein, a shaft in the crank case having a gear thereon, a self-contained governor unit having a casing adapted to be inserted through said opening, said casing having a flange adapted to engage and be secured to said crank case, said unit also including a gear insertible with the unit through said opening and adapted to engage the gear on said shaft.

1,339,498. SPARK-ARRESTING DEVICE. FRANK L. CONNABLE, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 3, 1915, Serial No. 64,821. Renewed Jan. 2, 1920. Serial No. 349,089. 8 Claims. (Cl. 183—62.)



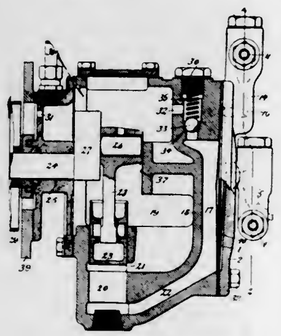
2. A spark arrester comprising a body portion adapted to inclose the upper end of a stack, and automatic clamping devices carried by said portion adapted to engage the stack when the body portion is placed over the stack, said devices comprising a lever automatically forced against the stack when the body portion is placed over the stack, to hold the spark arrester in operative position.

1,339,499. ROTARY PULVERIZER. EMILIO CORTESE, MARIO CRESPI, and ALESSANDRO SQUASSI, Milan, Italy. Filed Jan. 29, 1920. Serial No. 354,524. 3 Claims. (Cl. 83—11.)



2. In a pulverizing apparatus, the combination of a casing forming a pulverizing chamber; a stationary pulverizing means located in said chamber; a shaft; beater wheels mounted on said shaft; beater bars mounted on said beater wheels and coöperating with said stationary pulverizing means; a grid provided over an opening in said casing and through which both impalpable powder and granular material may pass; and a blower located in said pulverizing chamber between the shaft and the beater bars and mounted on said shaft independently of said beater wheels, said blower having its blast directed toward said grid for blowing the impalpable powder from the pulverizing chamber through the grid while permitting granular material to fall through said grid.

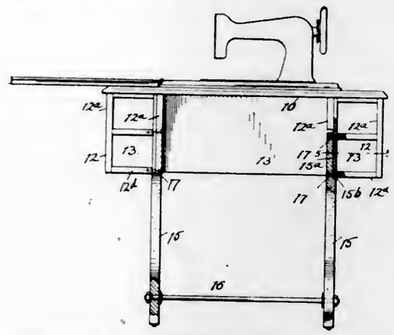
1,339,500. PUMP. CHARLES A. CRIQUI and ELWOOD T. LARKIN, Buffalo, N. Y.; said Larkin assignor to said Criqui. Filed Jan. 22, 1919. Serial No. 272,410. 5 Claims. (Cl. 103—10.)



1. A pump comprising a pumping chamber having an inlet and an outlet, an actuating chamber having a supply passage and an overflow passage, a flexible diphragm arranged between said pumping and actuating chambers, a pump barrel having its front part communicating with said supply passage and its rear part communicating with said overflow passage, and a pump plunger reciprocating in said barrel.

1,339,501. SEWING-MACHINE CABINET. JOHN DIANISKA, Dayton, Ohio, assignor to The Theodor Kundtz Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 12, 1918. Serial No. 249,411. 1 Claim. (Cl. 45—27.)

In a sewing machine cabinet, the combination of a table and two drawer cases which are fastened to the underside of said table near the ends thereof respectively, each drawer case including two inside vertical corner posts, an inside case wall in the form of a depressed panel, an outside case wall, and a plurality of horizontal shelves, with two leg members, one associated with each drawer case, each leg member having a horizontal ledge extending across its outer face and across its front and rear edges for supporting the lower shelf and the two inside corner posts of the associated drawer case, and having also a tongue which fits between said inside corner posts and against the inside panel, screws which fasten said tongue to the ends of several of said shelves, and a brace bar which extends between and is connected with said leg members.

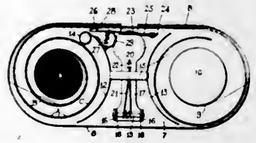


1,339,502. AMUSEMENT APPARATUS. EDGAR STUART DOUGHTY, Red Wing, Minn. Filed Dec. 2, 1919. Serial No. 341,867. 1 Claim. (Cl. 104—134.)



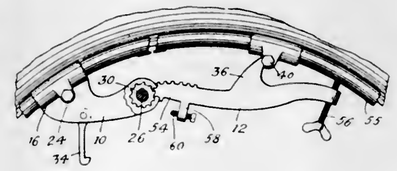
In amusement apparatus, a trackway comprising a pair of side plates and a series of treads connecting the side plates, and means for supporting one end of the trackway elevated, said means comprising a standard having at each end a cross head, one of the cross heads being received between the side plates and having journal pins journaled in said plates, the other cross head being of a length to fit between the side plates when the standard is folded on the side plates, each of the side plates consisting of upper and lower sections.

1,339,503. PIN-DISPENSER. BENJAMIN S. ELROD, Omaha, Nebr. Filed Jan. 19, 1918. Serial No. 213,108. 1 Claim. (Cl. 211—44.)



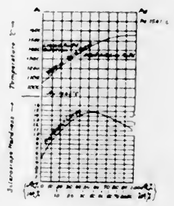
Dispensing means for pins held by a rolled strip and extending transversely of said strip, comprising a casing having compartments for receiving the rolled strip prior and subsequent to removal of the pins therefrom, said casing having a removable cover, adjacent portions of said cover and of one side of the casing-body intermediate the strip-compartments having registering notches therein forming an opening in the casing, a lever pivoted on the casing-cover opposite said opening and having one end extending adjacent thereto, a second lever pivoted on the cover, said second lever having an arm connected pivotally with the first lever and a depending arm movable longitudinally of the casing near the opening therein, a pawl-rod connected with said depending arm, a check-pawl connected yieldingly with the cover and arranged near the end of the pawl-rod, and yielding means carried by the cover and normally holding the first lever in a raised position.

1,339,504. DEVICE FOR USE IN CHANGING TIRES. JOHN E. ERICKSON, St. Paul, Minn. Filed Apr. 2, 1918. Serial No. 226,145. 2 Claims. (Cl. 157—1.)



1. A device for use in changing tires comprising two members, jaws on each of said members for securing one of them to a tire rim on each side of the split therein, a rack on one of said members extending along the side thereof and around the end, a pinion rotatably mounted in the other of said members adapted to mesh with said rack, and a handle for turning said pinion.

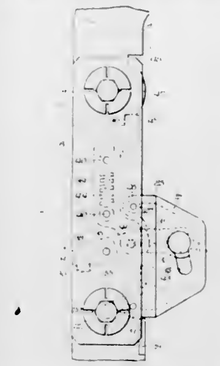
1,339,505. COMPOSITION OF MATTER FOR PLATINUM SUBSTITUTE IN ELECTRICAL TERMINALS AND OTHER USES. FRANK A. FAHRENWALD, Cleveland, Ohio, assignor to The Rhotanium Company, Cleveland, Ohio, a Corporation of Ohio. Original applications No. 108,991, filed July 13, 1916, and No. 129,911, filed Nov. 6, 1916. Divided and this application filed Feb. 18, 1918. Serial No. 217,835. 4 Claims. (Cl. 75—1.)



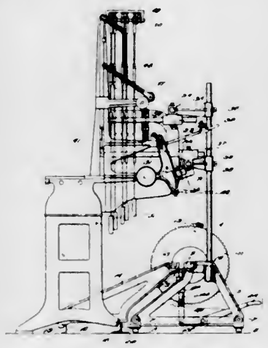
1. A spark point consisting largely of gold and palladium whose melting point is above 1150° C. and whose hardness is at least twice that of gold.

1,339,506. LOCKING-SWITCH. FRANK E. GETTS, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., Corporation of Illinois. Filed Feb. 25, 1918. Serial No. 219,094. 15 Claims. (Cl. 200—169.)

9. In an electrical switch, switch terminals, a switch member adapted to connect said terminals, locking means for locking said switch member in closed position, means for operating said switch, and means necessitating two distinct movements of said operating means for releasing said locking means and for actuating said switch.

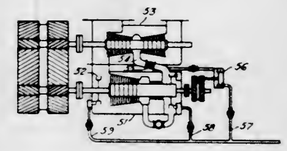


1,339,507. WARP-REPLENISHING MECHANISM. EDGAR F. HATHAWAY and CHARLES LEA, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Mar. 21, 1910. Serial No. 550,597. 24 Claims. (Cl. 139—94.)



1. In a transfer mechanism for warp replenishing machines, the combination with a warp beam holder of a pair of U-shaped brackets adapted to underlie each end of the wrap beam shaft, means for elevating said brackets to lift the warp beam out of the holder, said beam being adapted to roll on the bracket from one position to the other.

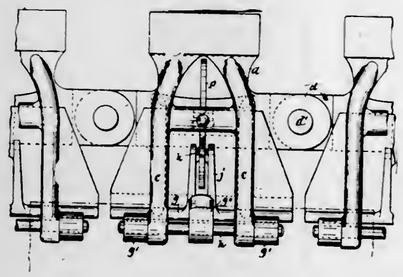
1,339,508. GEARED TURBINE. HERBERT T. HERR, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 14, 1916. Serial No. 131,245. 7 Claims. (Cl. 60—70.)



1. In combination in a marine turbine installation, an initial section including a high pressure stage, an inter-

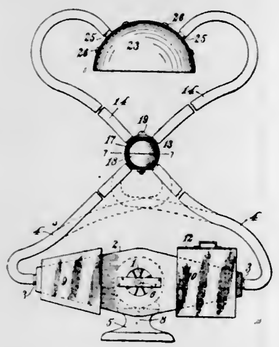
mediate pressure stage and a valved by-pass for by-passing fluid delivered from the initial stage around the intermediate stage, a low pressure section adapted to receive steam from the initial section, and a cruising section geared to the shaft of the initial section and adapted to deliver partially expanded steam to that portion of the initial section communicating with the inlet to said valved by-pass passage.

1,339,509. TENTERING-CLIP. FLORENT HINNEKENS, Paterson, N. J. Filed Apr. 17, 1919. Serial No. 290,805. 5 Claims. (Cl. 26—8.)



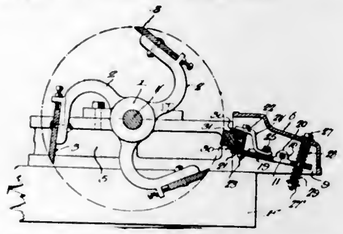
3. In combination, with a bifurcated body having a fabric gripping table at the inner side of one arm thereof, a grip-lever fulcrumed in the other arm of said body on a transverse axis parallel with the table and movable into and out of gripping relation with the latter, and a feeler-lever fulcrumed between its ends relatively back of the grip-lever on an axis parallel with the axis of the grip-lever and having a forwardly projecting arm and a rearward weight-arm, said feeler-lever being normally held by its weight-arm with its said forwardly projecting arm elevated and the grip-lever having means overlying said forwardly projecting arm of the feeler-lever and adapted to depress the same against the fabric overlying the table.

1,339,510. AIR BLOWER AND DISTRIBUTER. WILLIAM A. HOFFMAN, Dayton, Ohio. Filed Jan. 7, 1920. Serial No. 350,003. 3 Claims. (Cl. 128—256.)



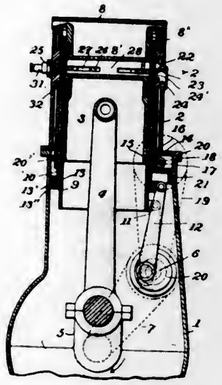
1. In an apparatus for supplying alternately, warm and cool air, an oblong casing with openings in the sides thereof and the ends of which gradually decrease in area, and are provided with restricted outlets, a heating element inclosing one end of said casing and cooling means inclosing the other end, a revolving fan mounted centrally in said casing, and flexible air distributing tubes connected with the restricted openings in the ends of said casing.

1,339,511. SHARPENER FOR FEED-CUTTERS. CHARLES A. HOLM, Tigerton, Wis. Filed May 12, 1919. Serial No. 296,444. 7 Claims. (Cl. 51—7.)



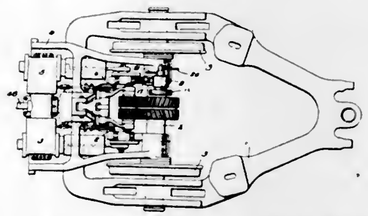
1. In a device of the class described, a member adapted to be engaged by a movable cutting blade, and yieldable supporting means for the member, said member being urged in two different directions by the engagement of the blade.

1,339,512. HYDROCARBON-MOTOR. RUSSELL HUFF, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 26, 1909. Serial No. 509,595. 43 Claims. (Cl. 123—75.)



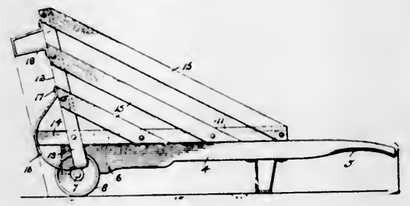
1. In an engine, in combination, a cylinder provided with inlet and exhaust ports, a piston working in the cylinder, a plurality of valve sleeves substantially concentric with the cylinder, each provided with a port arranged to coöperate with the inlet and exhaust ports.

1,339,513. GOVERNOR CONTROL FOR BOOSTER-MOTORS FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, N. Y. Filed Oct. 20, 1919. Serial No. 331,877. 27 Claims. (Cl. 105—48.)



1. In a governing mechanism for booster motors for locomotives, the combination of a booster motor, an air system in control thereof, and means operated by the speed of a moving part of the locomotive for rendering said air system effective or ineffective.

1,339,514. TRUCK. JOHN ALFRED JOHNSON, Baltimore, Md. Filed Nov. 20, 1919. Serial No. 339,368. 3 Claims. (Cl. 280—53.)

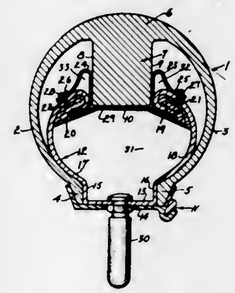


3. A truck including under bars and wheels at the front ends, a rack frame that rests on the under bars and comprising longitudinal side bars, the front ends of which project beyond the wheels, upstanding end bars above the side bars having the lower portions extending across said side bars in rear of their projecting front ends, the lower ends of the end bars projecting below the side bars, and curved rockers extending around the projecting ends of the side and end bars in advance of the wheels and constituting a fulcrum for the rack when the rear end of the truck is elevated.

1,339,515. MANUFACTURE OF ELECTRODES FOR SOLDERING AND DEPOSITING METALS BY THE ELECTRIC ARC. ERNEST HENRY JONES, Islington, London, England. Filed Feb. 18, 1920. Serial No. 359,659. 2 Claims. (Cl. 219—8.)

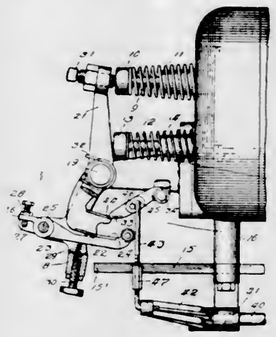
1. The process of forming an electrode, which consists in coating a rod with silica, moistening said coating, and applying a slag-forming powder thereto while the silica is in moist condition.

1,339,516. PNEUMATIC TIRE. BURTON A. KARR, Los Angeles, Calif. Filed Sept. 25, 1919. Serial No. 326,312. 2 Claims. (Cl. 152—10.)



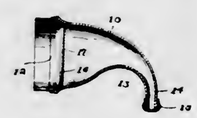
1. A pneumatic tire comprising a tire casing having rim beads, side walls, a tread and a reinforcement extending inwardly from the tread; said reinforcement having straight sides and a flat inner face; a metal casing adapted to fit the tire rim and having bead walls extending outwardly inside of the beads and side walls extending outwardly inside of the side walls of the tire casing, and clencher portions extending outwardly from the side wall portions; fabric beads in the clencher portions; fabrics extending from the fabric beads outwardly around between the clencher portions and having their outer edges secured to the side wall portions; and a fabric connecting the beads straight across and engaging the reinforcement and forming a compressed air chamber within the metallic casing and last named fabric, the pressure of the compressed air being exerted to press the fabric against the reinforcement.

1,339,517. INTERNAL-COMBUSTION ENGINE. EARL H. KIMBALL, Waterloo, Iowa, assignor to Associated Manufacturers Company, Waterloo, Iowa, a Corporation of Iowa. Filed Aug. 2, 1918. Ser. No. 247,983. 15 Claims. (Cl. 123—113.)



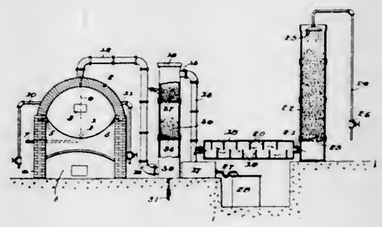
1. In combination, an engine exhaust valve; means tending to hold said exhaust valve closed; a lever having one end adjacent said exhaust valve; a crank shaft; means operatively associated with said crank shaft; a lever connected with said means; locking means on one of said levers adapted to lock the levers together; and means operable by the speed of the crank shaft adapted to engage said locking means and unlock the levers when said crank shaft has exceeded a predetermined speed.

1,339,518. ATTACHMENT TO TELEPHONES. CARL E. KRUEGER, Glenwood Springs, Colo. Filed Mar. 23, 1918. Serial No. 224,230. 4 Claims. (Cl. 179—109.)



1. An attachment of the class described comprising a tubular body portion adapted at one end to fit over a telephone sound transmitting element, and a diaphragm disposed within said body portion and including a ring, and a plurality of vibratory wires having their ends secured to said ring member and extending across the opening thereof in spaced parallel relation.

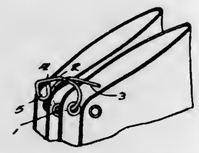
1,339,519. APPARATUS FOR PRODUCING HYDROCHLORIC ACID UTILIZING SLUDGE ACID. HENRY MICHAEL LASHER, Kansas City, Kans., assignor to The Kansas City Refining Company, Kansas City, Kans. Filed Oct. 7, 1916. Serial No. 124,351. 5 Claims. (Cl. 23—1.)



1. In apparatus for producing hydrochloric acid solution, a source of hydrochloric acid gas, a primary absorber con-

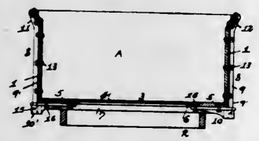
nected with said source and comprising a conduit containing a succession of oppositely extending and alternating baffles, a secondary absorption tower containing fragmentary material in mass, with means to supply water to the upper part of said mass, a bottom chamber for collecting the water as it trickles through said mass, means for feeding the water into the primary absorber, common means for conducting the gas and water to and from the primary absorber, and a receiving tank connected to said common conducting means for receiving the acid solution.

1,339,520. SHOE-HOLDER. JOHN MOORE MCCRAY, Pueblo, Colo. Filed June 10, 1918. Serial No. 239,152. 2 Claims. (Cl. 24—1.)



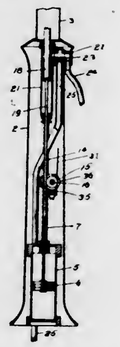
1. A holder of the character described formed from a single length of resilient wire bent to provide a handle extension and a single coil at an angle thereto, the end of the wire remote from the handle extension being disposed tangentially to said coil, said handle extension being disposed laterally at one side of the plane of the coil.

1,339,521. SUPPORTING CONNECTION FOR VEHICLE-BODIES. WILLIAM G. MAYER, Pittsburgh, Pa (original application filed Nov. 2, 1918, Serial No 260,869. Divided and this application filed Apr. 7, 1919. Serial No. 287,942. 5 Claims. (Cl. 296—30.)



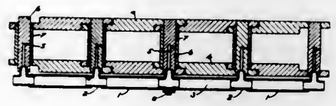
1. A vehicle body having a bottom and sides, a vertical member secured to said sides and having a flange, a horizontal socket member secured under said bottom, and securing means between said flange and socket member.

1,339,522. LIQUID-VENDING APPARATUS. JOHN M. MILLER, Sewickley, Pa. Filed Nov. 25, 1919. Serial No. 340,535. 9 Claims. (Cl. 221—100.)



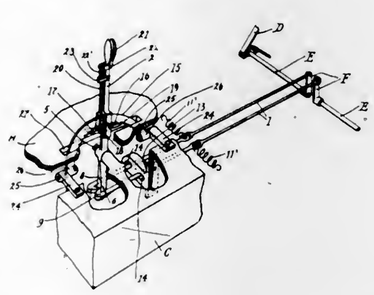
1. In a liquid vending apparatus, the combination with a storage reservoir, of a measuring tank, a pump and pipe connections for transferring liquid from said reservoir to said tank, said pump having an intake movement for withdrawing liquid from said reservoir and a discharge movement for causing such withdrawn liquid to flow into said tank, a discharge pipe leading from said tank, and means coördinated with the operation of said pump for controlling flow through said discharge pipe.

1,339,523. TRACTOR-TREAD OILER. PAUL F. NAFTEL and HERMAN H. GARNER, Pomona, Calif. Filed Sept. 25, 1917. Serial No. 193,088. 6 Claims. (Cl. 74—32.)



1. The combination with a chain having bearings, of a continuous flexible duct communicating with the bearings.

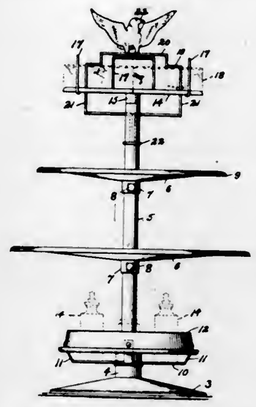
1,339,524. AUTOMOBILE-BRAKE. BENJAMIN W. OLSON, Stillwater, Minn. Filed Oct. 28, 1919. Serial No. 333,953. 1 Claim. (Cl. 188—16.)



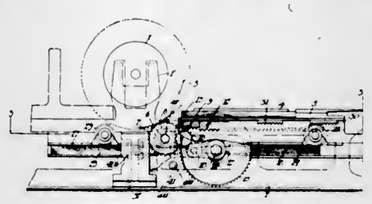
The combination with a vehicle having a differential drive, and independent brakes coöperating with the two traction wheels, of a rock shaft for each brake yieldingly held in normal position and having an arm, a loosely fulcrumed lever the short arm thereof extending upwardly, locking means for said lever, an independent rod-like connection for each of said rock shaft arms said connections extending forwardly to engage said short arm, and being slightly spaced from one another so as to loosely receive the lower end of said short arm between them to form a guide for the latter when said lever is actuated, each of said rod-like connections being formed at its forward extremity with an inturned comparatively shallow shoulder to be engaged by the short arm of said lever to operate said brake when it is moved through its forward stroke, said rod-like connection being mounted so as to be movable under stress laterally at their shoulder ends, and said lever being fulcrumed so as to render the short arm thereof movable in a diagonal forward direction during a continuous stroke for the purpose set forth.

1,339,525. SERVING APPARATUS FOR DINING-TABLES. LARS ROD, Washington, D. C. Filed Sept. 25, 1919. Serial No. 326,281. 5 Claims. (Cl. 45—26.)

2. Service means for dining tables comprising a base having a standard, a dish holding shelf carried by the standard, a napkin supporting shelf mounted on the standard, and a napkin clamp coacting with the napkin supporting shelf and having a portion longitudinally slidable on the standard beneath the napkin-supporting shelf.



1,339,526. PRINTING-MACHINE. DAVID JOHN SCOTT and CARL EBERHARD DRANGE, Plainfield, N. J., assignors to Isabella Scott and David J. Scott, executors of Walter Scott, deceased, Plainfield, N. J. Filed Sept. 29, 1914. Serial No. 864,119. 52 Claims. (Cl. 101—282.)

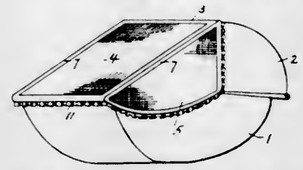


1. A printing machine comprising: an impression member, a flat bed form member, an impression bridge located under the impression member and having an opening therein, reciprocating reversing members moving independently of the bed, one of said members passing through the opening in the bridge, a crank on one side of the bridge whose center of rotation is below the top thereof, connecting rods between the crank and the reciprocating reversing members, the distance of the crank from the bridge and the length of the connecting rod extending from said crank to the reversing member passing through the bridge being such that the connecting rod is at all times on the same side of the bridge as the crank and connecting means between the reciprocating reversing members and the bed.

42. A counterbalanced reversing mechanism for printing machines comprising: a framework, and means engaging the reciprocating member at the ends of its path of travel for transmitting the thrust of the reciprocating member to the framework in opposite directions during each reversal of the reciprocating member at each end of its stroke.

1,339,527. COLLAPSIBLE SCREEN FOR BABY-CARRIAGES. LEOPOLD N. SPERLING and CHARLES J. HARRIS, Youngstown, Ohio; said Harris assignor to said Sperling. Filed Nov. 3, 1919. Serial No. 335,481. 2 Claims. (Cl. 135—10.)

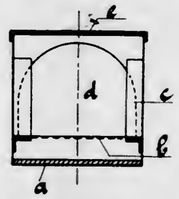
1. In a device of the class described, the combination of baby carriage body, provided with a top, a screen comprising a central portion having parallel sides and ends, hinged wings attached thereto along the sides, the hinges made of fabric, a ruffle attached to the perimeter of said central portion and wings, a coil spring held within the ruffled portion and means for attaching the ends of said spring, substantially as described for the purposes set forth.



1,339,528. COMPOSITION OF MATTER. ALEXANDER L. STRAUS, Baltimore, Md., assignor to Baltimore Process Company, Baltimore, Md., a Corporation of Delaware. Filed Sept. 19, 1919. Serial No. 324,924. 5 Claims. (Cl. 99—11.)

3. The herein described composition of matter for adding to fermented malt and cereal beer after substantially all its alcohol has been boiled off in order to restore the taste and flavor of the original beer, the same substantially consisting of the following ingredients in substantially the following proportions: sodium chlorid 10 pounds, gum arabic, 10 pounds, more than 200 pounds of a syrup a portion of which has been derived from malt; potassium meta-bi-sulfite, one pound; citric acid one pound; lupulim 2 ounces; substantially as described.

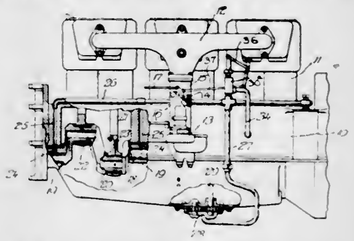
1,339,529. MANUFACTURE OF HARD TOE-BLOCKS AND THE LIKE FOR FOOTWEAR. GUSTAVE VERHOOGEN, Brussels, Belgium. Filed Apr. 10, 1919. Serial No. 289,170. 2 Claims. (Cl. 91—68.)



1. A process of manufacturing toe or heel blocks for footwear, consisting in treating material impregnated with cellulose in order to make it supple by means of vapors arising from acetone in a suitably arranged container or apparatus.

2. Apparatus for softening toe blocks comprising a liquid tight container, a felt pad on the bottom thereof, corner brackets, a grille supported thereon, and movable separating members, mounted on the grille.

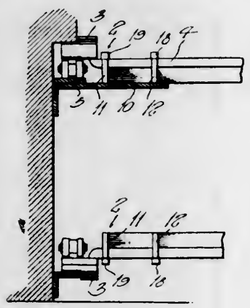
1,339,530. HYDROCARBON-MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 10, 1915. Serial No. 49,925. 4 Claims. (Cl. 184—6.)



2. In a hydrocarbon motor, in combination, an oil pump, means for leading oil from the pump to the bear-

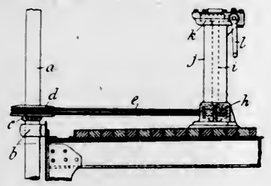
ings of the motor and including a by-pass for the oil, a valve in said means for retaining the pressure therein, said valve being operable to open the by-pass under the pressure in said means, a spring tending to keep said valve closed, an abutment against which one end of said spring bears, and means controlled by the position of the throttle valve for determining the position of said abutment and thus regulating the tension of the spring.

1,339,531. MECHANICAL STOKER. EARL S. WALLEN, Lansford, Pa., assignor, by mesne assignments, to Coxe Traveling Grate Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,412. 4 Claims. (Cl. 110—40.)



1. In a mechanical stoker, the combination of a firebox, a traveling grate forming the bottom of said firebox and including side chains and transverse grate bars supported thereby, and ledges upon which the ends of said grate bars slide, said grate bars being provided at their ends with transverse air sealing webs contacting with said ledges, and with additional transverse air sealing webs spaced inwardly from said first named webs and also contacting with said ledges.

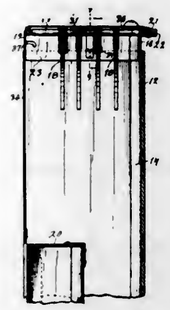
1,339,532. MECHANISM FOR TURNING SHIPS' DAVITS. AXEL WELIN, London, England, assignor to American Balsa Company, Inc., a Corporation of New York. Filed July 3, 1914. Serial No. 848,734. 5 Claims. (Cl. 9—22.)



1. In combination, a pair of davits pivoted to rotate and each having overhanging parts adapted together to support a boat, a collar on each davit, a flexible connection connected with each collar and having parts extending on opposite sides thereof, and a common driving mechanism for all the said parts for rotating said shaft in opposite directions to swing the davits in opposite directions.

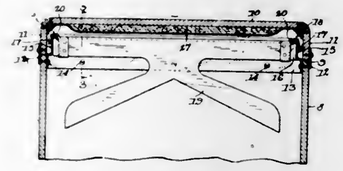
1,339,533. TRUNK-WARDROBE-SECTION PROTECTOR. GEORGE HENRY WHEARY, Racine, Wis. Filed Aug. 7, 1916. Serial No. 113,421. 8 Claims. (Cl. 190—13.)

1. A trunk, comprising a body portion divided into two hinged together parts to form a wardrobe section and another section, the wardrobe section having an open top and front, and a roller mounted within the front portion of the wardrobe section when the trunk sections are in closed position and movable when the sections are in



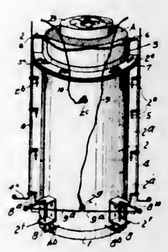
open position to the upper rear portion of the wardrobe section and having a cover which may be pulled over the open top and front of said wardrobe section.

1,339,534. COMBINED TRUNK-COLLAR AND TRACK. GEORGE HENRY WHEARY, Racine, Wis. Filed Apr. 18, 1918. Serial No. 229,290. 6 Claims. (Cl. 190—13.)



1. The combination with the wardrobe section of a trunk having an open top and a cover for the opening, of a combined collar and track therefor, comprising a U-shaped strip of metal fastened to the inner surfaces of the walls of the top open portion of the trunk and projecting outwardly therefrom beyond the open edges of said trunk to form a collar, the upper edge parts of the side portions of said collar being curved inwardly and downwardly to form track portions for supporting garment hangers slidably thereon, said top cover when in closed position overlapping projection collar portions, and extension track members connected to the outer ends of the first mentioned track portions and movable to positions in alinement with said track portions.

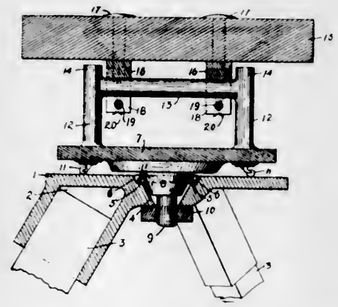
1,339,535. APPARATUS FOR COVERING SUBMERGED PILES WITH CONCRETE. FREDERICK M. WHITE and HENRY E. RIEGER, San Diego, Calif. Filed Dec. 30, 1918. Serial No. 268,929. 6 Claims. (Cl. 25—1.)



2. In an apparatus of the class described, the combination of a pair of concrete members adapted to fit around

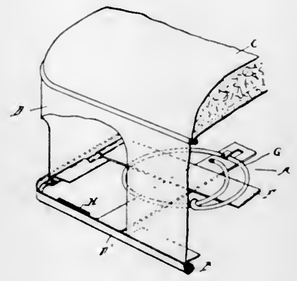
a pile, a packing member secured on the upper surface thereof adapted to press tightly against the pile, a pair of semi-circular form members provided with levers pivotally mounted on said form members and adapted to engage and disengage said concrete members for readily connecting and disconnecting said concrete members with said form members and means for securing said form members together.

1,339,536. REVOLVING TEETER-BOARD. WINFIELD WILLIAMS, San Jose, Calif. Filed Feb. 3, 1919. Serial No. 274,674. 6 Claims. (Cl. 46—22.)



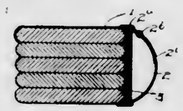
6. A device of the character described, comprising a rigidly mounted table having a circular horizontally disposed top surface and having an inverted conical recess formed in the center thereof and an inverted conical opening of less diameter than said recess and concentric therewith connecting said recess with the lower surface of said table, balls positioned to rotate freely in said recess and about said conical opening, a member provided with a conical bearing adapted to rotate freely on said balls and spaced a distance above said table and provided with a plurality of bearings adapted to rotate freely upon the upper surface of said table, a horizontal axle rigidly mounted on said rotating member, and a rocking member provided with terminal seats balanced upon said axle.

1,339,537. CUSHION-SEAT. JAMES J. WISELOGEL, Detroit, Mich., assignor to National Spring & Wire Company, Albion, Mich., a Corporation of Michigan. Filed Dec. 14, 1917. Serial No. 207,041. 2 Claims. (Cl. 155—180.)



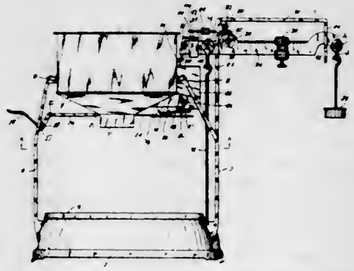
1. In a cushion seat, the combination with a cushion, a spring frame having a base border wire and cross-bars for supporting the springs attached at their ends to said base border wire, of a skirt depending from said cushion and drawn around beneath said base border wire, and a frame formed of a channel strip conforming to the contour of said base border wire, the sides of said strip extending upward and spaced to embrace the border wire and portion of the skirt around the same, the outer side being straight and the inner side being cut away to clear said cross-bars at their points of attachment to said base border wire and the portions of said inner side intermediate said cut away portions being clenched to retain the strip.

1,339,538. SPRING-OILER. GUY L. WOODJARD, San Diego, Calif. Filed Sept. 1, 1917. Serial No. 189,297. 4 Claims. (Cl. 184—1.)



2. In a spring oiler, a reservoir comprising a cup shaped metallic member provided with an oil receiving hole in the side thereof, a felt member fitted in said reservoir adapted to rest against the sides of the spring and a plate spring secured thereto with one end extending over said hole and its other end extending to the opposite side of the spring for holding said reservoir in position on the spring.

1,339,539. ELECTRICALLY-OPERATED RELEASING DEVICE FOR WEIGHING-MACHINES. CHARLES H. ALLEN, Pittsburgh, and JOLLY L. MORRIS, Crafton, Pa. Filed Jan. 21, 1919. Serial No. 272,263. 12 Claims. (Cl. 249—58.)

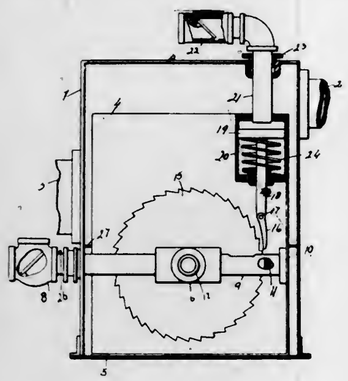


1. An electrically operated slide releasing device for weighing machines, comprising balancing scales, a hopper having an exit opening, a spring pressed slide regulating said opening, an electro-magnet having terminals, a yielding circuit closing member and electrical connections therewith, means connected to the balancing beam of the scales for actuating said member, causing the latter to close the circuit to energize said electro-magnet, mechanism actuated by the movement of the armature of the electro-magnet for releasing said latch, and means for returning said member to its normal position after the electro-magnet has been energized.

1,339,540. OILER FOR AIR-COMPRESSORS. EMMA C. BARCHARD, Chicago, Ill. Filed June 23, 1919. Serial No. 306,135. 5 Claims. (Cl. 184—54.)

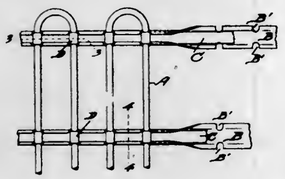
2. In a device of the character described, a reservoir, an exhaust pipe leading to said reservoir near the top thereof, an exhaust pipe leading from said reservoir at a point below the first named exhaust pipe, oil delivery pipes leading from the reservoir to the air cylinders of an air compressor, a shaft revolving in front of the ends of said pipes, said shafts having pockets formed therein adapted to pass in alinement with said pipes, means for delivering oil from the waters of condensation in said reservoir to

said pockets, a ratchet wheel carried upon said shaft, a cylinder, a piston located in said cylinder, said piston



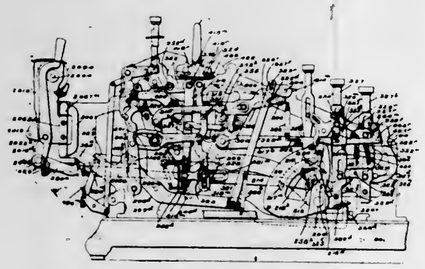
being spring actuated in one direction, and means for revolving the ratchet wheel from the movements of said piston.

1,339,541. WIRE FABRIC. JOHN S. BARNES, Detroit, Mich. Filed Oct. 3, 1918. Serial No. 256,673. 2 Claims. (Cl. 245—2.)



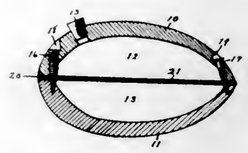
2. A fabric comprising a plurality of pickets spaced apart and severally indented at spaced intervals to receive a pair of overlapping intersecting members; and a plurality of coöperating pairs of intersecting members spaced apart having opposing indentations to receive the indented portions of the pickets, the edges of one member of each pair of intersecting members being bent between the pickets to overlap the edges of the coöperating intersecting member.

1,339,542. CALCULATING-MACHINE. CHARLES BIRTH, Kingston borough, Pa., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1918. Serial No. 257,102. 27 Claims. (Cl. 235—60.)



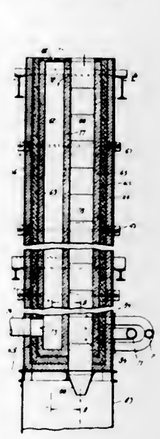
1. In a calculating machine, the combination with indexing mechanism; accumulating and printing mechanisms controlled by the indexing mechanism; and line spacing mechanism; of means to normally disable the line spacing mechanism; and means controlled by the indexing mechanism to render the disabling means ineffective.

1,339,543. SANITARY NEST-EGG. LOUIS CLIFFORD BOUMA, Lynnville, Iowa. Filed Sept. 5, 1919. Serial No. 321,880. 3 Claims. (Cl. 119—46.)



1. As an improved article of manufacture, two members so formed and shaped as when combined to simulate a fowl's egg, said members being formed with an internal cavity and a filling aperture leading to said cavity, means for stoppering said filling aperture, and a wick device mounted between said members and extending to the surface thereof, together with means for securing said members together.

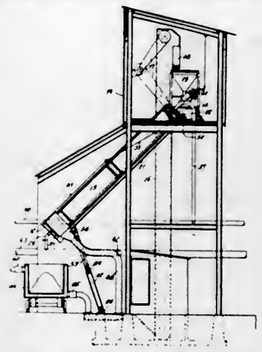
1,339,544. TREATING ZINC OXID. FRANK G. BREYER and EARL H. BUNCE, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 9, 1918. Serial No. 249,045. 12 Claims. (Cl. 75—19.)



1. The process of treating zinc oxid which comprises passing the oxid by the action of gravity alone and in the form of a relatively thin stream or sheet through a highly heated atmosphere; substantially as described.

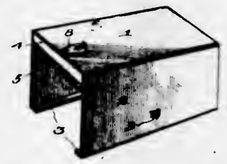
1,339,545. TREATING ZINC OXID. FRANK G. BREYER and EARL H. BUNCE, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 9, 1918. Serial No. 249,046. 7 Claims. (Cl. 75—19.)

1. The process of treating zinc oxid, which comprises permitting the oxid to slide by the action of gravity alone and without mechanical agitation through a chamber so disposed that a certain resistance is offered to the passage of the oxid therethrough by friction due to contact of the particles of the oxid with the walls of the chamber,



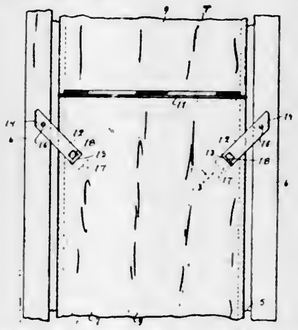
and heating the oxid during its passage through the chamber; substantially as described.

1,339,546. SPRING-OILER. WILLIAM HIRAM BROWN, Cleveland, Ohio, assignor to Guy L. Woodjard, San Diego, Calif. Filed Feb. 15, 1917. Serial No. 148,761. 2 Claims. (Cl. 184—1.)



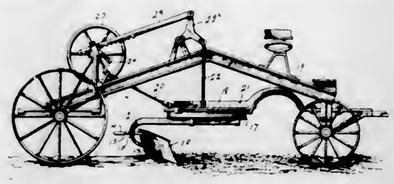
1. In an oiler of the type set forth, a clip adapted to extend over three sides of the spring and provided with an oil absorbing and delivering pad in its one side, said pad being provided with a recess to serve as an oil container the lower extended edges of the side plates of the clip being provided with inwardly turned flanges engaging the opposite side of the spring from said pad whereby it is held in position on said spring, said pad being adapted to rest against one side of the spring and a wire secured around said clip and said spring as an additional support for said clip.

1,339,547. PIPE-SUPPORTING MEANS. CHARLES M. BULLER, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 6, 1917. Serial No. 160,176. 9 Claims. (Cl. 137—75.)



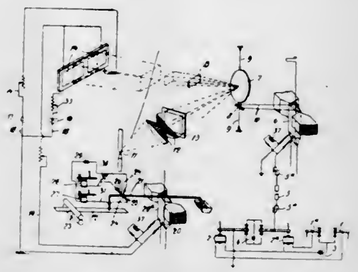
1. The combination with a vertically extending pipe provided with a side opening, of a supporting means for said pipe consisting of an integral member slidably extending through the opening and lockingly engaging the pipe and having an outer end portion for attachment to a support.

1,339,548. ROAD-GRADER. RALPH C. COX, Wauneta, Nebr. Filed Mar. 22, 1919. Serial No. 284,240. 7 Claims. (Cl. 37—49.)



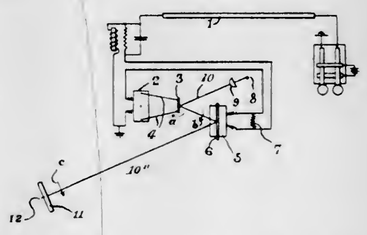
2. In a road grading or surfacing machine, a rearwardly bowed blade having its lower edge curved upward uniformly and continuously from its ends to its middle, and means for pivotally supporting the blade for tilting adjustment in a vertical plane perpendicular to the blade, and means for holding the blade in its adjusted positions.

1,339,549. TELEGRAPHY. THOMAS B. DIXON, New York, N. Y. Filed Dec. 5, 1913. Serial No. 804,873. 15 Claims. (Cl. 178—88.)



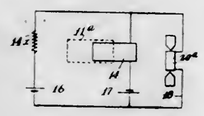
1. Apparatus for receiving and amplifying telegraphic signals comprising in combination two radio-electro-sensitive elements, circuits including the same including electric generators, a third circuit to which the circuits of said radio-electro-sensitive elements are connected, the polarity of said electric generators being opposite with respect to such third circuit, an actuating element arranged to direct a beam of radiant energy upon both said radio-electro-sensitive elements, and by its operation to vary the illumination of such radio-electro-sensitive elements in opposite senses respectively, said beam normally illuminating substantial portions of both said radio-electro-sensitive elements, and a controlled element controlled by the said third circuit.

1,339,550. TELEGRAPHY. THOMAS BULLITT DIXON, New York, N. Y. Filed July 29, 1916. Serial No. 112,055. 7 Claims. (Cl. 178—88.)



7. In a radio-electric relay or amplifier, radio-electric neutralizing means for neutralizing zero displacement effects, due to low period electrical surges, on signal receiving means, said radio-electric neutralizing means being actuated by the low period surges.

1,339,551. TELEGRAPHY. THOMAS BULLITT DIXON, New York, N. Y. Original application filed Dec. 5, 1913. Serial No. 804,873. Divided and this application filed Mar. 20, 1918. Serial No. 223,529. 16 Claims. (Cl. 178—88.)

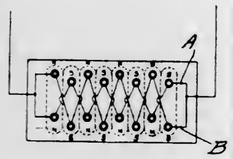


1. The herein described method of transmitting, receiving and amplifying telegraphic signals, which comprises transmitting signals through an electric circuit by currents of one polarity for one class of signals of the telegraphic code, and by currents of the opposite polarity for another class of signals of the telegraphic code, causing the signals so transmitted to vary the degree of illumination of a radio-electro-sensitive element in an electric circuit, which element is illuminated to an intermediate and substantial degree when no signals are being transmitted, signals of one polarity causing decrease of illumination of such element, and signals of the opposite polarity causing an increase in illumination of such element, and causing the resulting current fluctuations in the circuit of said radio-electro-sensitive element to operate electrical signaling means.

1,339,552. PLASTIC COMPOSITION. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 1, 1919. Serial No. 341,784. 14 Claims. (Cl. 106—37.)

1. A composition of matter containing cellulose nitrate, a hydroxyl compound of the C_n order of the aliphatic homologous hydrocarbon series, and a halogen compound of the $C_{(n-1)}$ order of the same series, wherein n represents any number from 3 to 5 inclusive.

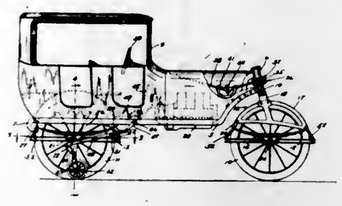
1,339,553. ELECTROMAGNETIC CHUCK. LEON W. DUNBAR, Worcester, Mass. Filed June 21, 1918. Serial No. 241,175. 16 Claims. (Cl. 175—367.)



1. An electro-magnetic chuck, having, in combination, a casing having a top-plate provided with a plurality of magnetizable pole-pieces, and means for magnetizing alternate pole-pieces with opposite polarities, said means comprising a plurality of sets of cores severally disposed in magnetic relation to the pole-pieces, the cores of each set being similarly and independently magnetized.

1,339,554. TWO-WHEELED MOTOR-VEHICLE. ANDREW DURESEN, Minneapolis, Minn. Filed July 3, 1919. Serial No. 308,502. 3 Claims. (Cl. 208—94.)

1. In a motor vehicle, the combination with a main frame, of a front wheel frame and a rear wheel frame, a wheel journaled in each of said wheel frames, a front wheel fork turnably connected to the main frame, pairs of leaf springs supporting said fork from the front wheel frame and the main frame from the rear wheel frame, springs connecting the ends of the leaf springs to the front



and rear wheel frames and steering wheel equipped connections for imparting angular steering movement to said fork.

1,339,555. SEALING-VALVE FOR CARBONATED-BEVERAGE CONTAINERS. CHARLES M. EARL, Detroit, Mich. Filed Apr. 17, 1918. Serial No. 229,124. 1 Claim. (Cl. 284—18.)



In a sealing valve, the combination with a valve casing having a detachable cap portion, of a sealing valve within said casing adapted to seat upon said cap portion, a tubular stem for said valve providing an outlet from the casing, means within the casing yieldably urging said valve to its seat, and a dispensing valve detachably mounted upon said cap, controlling the discharge from said tubular stem and acting through said stem to unseat the sealing valve.

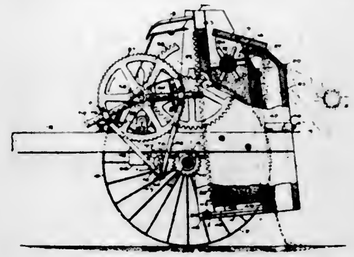
1,339,556. POISON-DISTRIBUTER. JOHN EEN, Amherst, Wis. Filed July 28, 1919. Serial No. 313,855. 3 Claims. (Cl. 43—145.)



1. A distributer of the class described comprising a tapered open ended container having screw threads formed on its smaller end, a perforated cap in threaded engagement with the threaded end of the container, a cap closing the larger end of the container, and an operating handle connected with the container at its larger end.

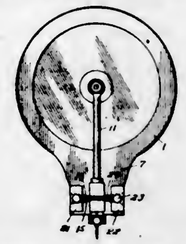
1,339,557. DISTRIBUTING-MACHINE. OLIVER P. GREENWOOD, Billerica, Mass., assignor, by mesne assignments, to Alice B. Dove, Andover, Mass. Filed Sept. 19, 1912, Serial No. 721,331. Renewed Sept. 30, 1919. Serial No. 327,474. 2 Claims. (Cl. 221—122.)

1. An apparatus of the class described having, in combination, a hopper having a stationary wall and a relatively movable materials-feeding wall, means to move said movable wall along said stationary wall to feed the



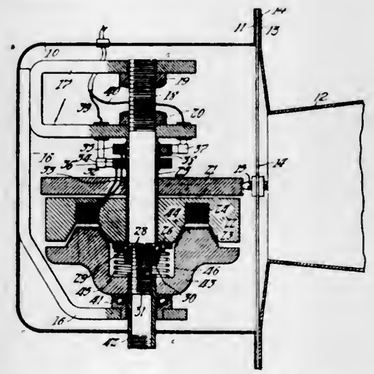
materials, and means for adjusting said stationary wall transversely of the path of said movable wall.

1,339,558. PHONOGRAPH AND ANALOGOUS APPARATUS. ELWOOD GRISSINGER, Buffalo, N. Y., assignor to Lucy Ash Grissinger, Buffalo, N. Y. Filed June 12, 1918. Serial No. 239,512. 7 Claims. (Cl. 274—35.)



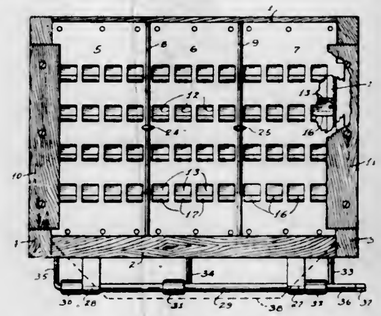
1. In an apparatus of the class described, a lever, means for vibrating said lever, a suitable support, and means for pivotally mounting said lever on said support, said means comprising bearings, one of which is formed with an edge bearing having pivotal contact with the surface of the other bearing on a line at right angles to the plane of the pivotal movement, in combination with wires of great tensile strength secured to the support and engaging said lever symmetrically with respect to the pivotal line and extending in directions adapted to stress said lever against said bearing, and adjustable means for stretching said wires to a tension approaching the limits of safe elastic stress.

1,339,559. HORN. LOUIS G. HARTDORN, Brooklyn, N. Y. Filed Aug. 11, 1916. Serial No. 114,306. 4 Claims. (Cl. 177—7.)



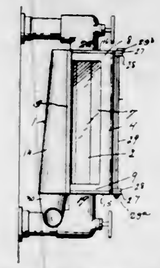
2. In an automobile signal, a casing, a diaphragm, a post fixed in the casing, a wheel to vibrate the diaphragm and a magnetic clutch member rotatable on the post, a second magnetic clutch member, a connection on the second member for its attachment to a shaft, and electric connections whereby the clutch members can be energized.

1,339,560. ADJUSTABLE SIEVE FOR SEPARATORS. DANIEL E. HOFFMAN, Plymouth, Ohio. Filed Oct. 13, 1919. Serial No. 330,412. 21 Claims. (Cl. 130—19.)



2. In a sieve for separators, a perforated member composed of a plurality of connected sections, a plurality of parallel slats slidably mounted to move under said perforated member and means to actuate the parallel slats.

1,339,561. WATER-GLASS. ELZIE HENRY HULETT, Michigan City, Ind. Filed June 21, 1919. Serial No. 305,785. 2 Claims. (Cl. 73—54.)

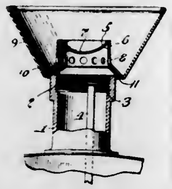


1. In a combined water glass and guard, the combination with a water glass frame proper having vertical channels in its adjacent faces and having their lower ends closed, and their upper ends open, of glass panels secured in said channels, a guard frame comprising a hood and end pieces forming parts of the hood, said end pieces over-lying the water glass frame proper and having channels conforming to and receiving the upper and lower ends of the water glass frame proper and having water-tight connections therewith, a water tube housed in the water glass, means adapted to be carried by a boiler and being threaded into the end pieces and connected to the water tube, said hood being in communication with the interior of the water glass and having means at its lower end to carry off the steam and water should the water tube break, said end pieces and the water glass frame proper having adjacent ears, and a single headed rod passing through the ears and having means on the unheaded end to hold the rod in place thereby holding the channels of the end pieces in engagement with the water glass frame proper.

1,339,562. COMBINED CAP AND FUNNEL FOR RADIATOR-FILLING TUBES. GEORGE C. HURT, Blackstone, Va. Filed Aug. 21, 1918. Serial No. 250,843. 7 Claims. (Cl. 220—86.)

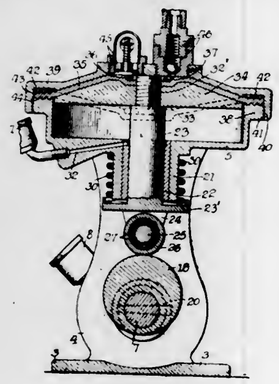
1. A combined cap and funnel for a radiator filling tube, comprising an inner annular wall provided with openings in its side, a head closing one end of the space

within said inner wall, and an outer annular wall connected at one of its ends with the opposite end of said



inner wall, said inner wall being provided with screw threads for attaching the same to said radiator filling tube.

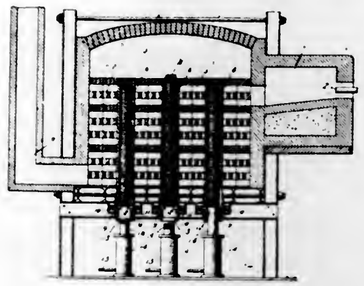
1,339,563. PUMP. GUSTAVE P. JOHNSON, Waukegan, Ill. Filed May 7, 1915. Serial No. 26,474. 3 Claims. (Cl. 230—5.)



1. In a pump, a supporting structure, a collapsible chamber carried thereby and formed by a rigid cover and a flexible diaphragm, an operating shaft, an eccentric on said shaft, a reciprocating rod having a follower, resilient means tending to hold said follower in engagement with said eccentric, and a disk carried by said rod, the center of said diaphragm being secured to said rod by means of a washer sunk into said disk and said diaphragm being adapted to fill the space between said cover and said disk at one extreme of the stroke of said rod and being adapted to be drawn taut at the other extreme.

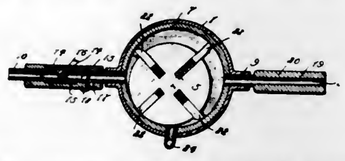
3. In a pneumatic pump, a diaphragm chamber base, a cover therefor, said cover being dished outwardly, a diaphragm of rubber or the like clamped between said cover and said chamber base, said cover and said chamber base having coöperating screw threads adapting said cover to thread upon said base, a loose ring interposed between said cover and said diaphragm for preventing injury to said diaphragm in threading said cover on said base, the under face of said ring having annular corrugations therein coöperating with matched corrugations in the face of said base to bind the periphery of said diaphragm therebetween, a disk beneath said diaphragm of substantially the same diameter as said diaphragm chamber, said disk having an outwardly dished formation to coöperate with said cover, an operating rod connected to said disk, means for reciprocating said rod, and means for attaching the center only of said diaphragm to said disk, said attaching means being countersunk in said disk whereby the upper surface of said diaphragm and disk presents an unbroken surface adapted to completely close the diaphragm chamber.

1,339,564. FURNACE. HARRY B. KINNEAR, Massillon, and ARTHUR J. TOWNSEND, Canton, Ohio. Filed May 12, 1919. Serial No. 296,493. 5 Claims. (Cl. 263—6.)



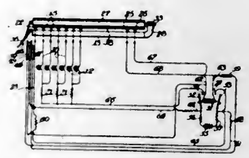
1. A furnace including a heating chamber, a receiving chamber and a discharging chamber, a tube located entirely through the heating chamber and connecting the receiving chamber and discharge chamber and means for passing articles to be heated upwardly through said tube.

1,339,565. PNEUMATIC DRILL. ZÉPHIRIN LAMBERT, Grand Mère, Quebec, Canada, assignor to J. E. McLaughlin, Grand Mère, Quebec, Canada. Filed Mar. 20, 1918. Serial No. 223,559. 2 Claims. (Cl. 121—34.)



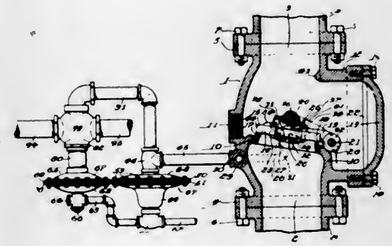
1. The combination with a pneumatically driven rotary motor, comprising a cylindrical casing open at one end, a bearing portion for one end of piston rod eccentrically formed with the closed end of said casing, a cover having formed therewith a bearing portion for the other end of said piston rod, diametrically opposed hollow projections formed with said cylindrical casing and adapted for connection, on the one hand, with an inlet air pipe provided with valve means for regulating the flow of motive fluid within the motor, on the other hand with an exhaust pipe, an auxiliary outlet air exhaust, a rotary piston carrying slidable propeller blades, said piston rigidly mounted on a rod or shaft, of an anti-friction metal bearing ring in relation with which each of the other parts comprising the device herein described are adapted for communication and adjustment.

1,339,566. ELECTRIC SIGN. MALCOLM E. LAUNBRANCH, Chicago, Ill. Filed Aug. 10, 1917. Serial No. 185,419. 6 Claims. (Cl. 177—350.)



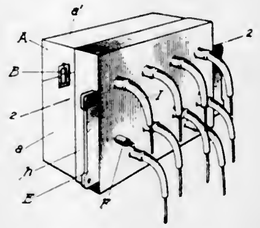
6. In a device of the character described the combination with a contact board having a plurality of terminals, a reversible templet carrier mounted in association with said contact board, means whereby said templet carrier is mounted to present opposite faces to said contact board, said means including a pivotally mounted framework having means for pivotally supporting said templet carrier, and means carried by opposite faces of said templet carrier to support a templet thereon.

1,339,567. ALARM-CONTROLLING MECHANISM. LEROY M. LEWIS, Philadelphia, Pa. Filed Apr. 16, 1919. Serial No. 290,451. 5 Claims. (Cl. 169—23.)



1. In an alarm controlling mechanism for automatic sprinkler systems including an alarm check valve, the combination of a differential means for controlling the flow of actuating fluid to said alarm, said differential means comprising a control valve normally held in closed position under the influence of the pressure of said actuating fluid, a continuous fluid conduit leading from said alarm check valve, through said differential means and to a drain passage, and operative upon the opening of said alarm check valve to conduct a substantial flow of fluid under pressure to and through said differential means for effecting an opening of said control valve, a normally open drain passage, and pressure controlled means connected to said fluid conduit between said alarm check valve and said differential means for closing said drain passage upon the flow of fluid through said fluid conduit.

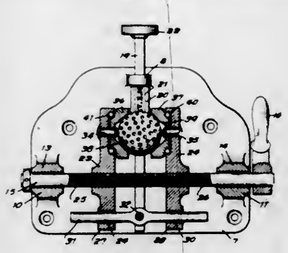
1,339,568. COIL-BOX PROTECTOR. HERMAN E. S. LORENZ, Chappaqua, N. Y. Filed Dec. 15, 1919. Serial No. 344,805. 4 Claims. (Cl. 180—90.)



1. A coil box protector embodying a layer of water proof material vulcanized to the back of the coil box and extending around the sides thereof, and flexible water proof sleeves having impervious joints with said layer of water proof material, one of said sleeves being associated with each terminal of the box in such manner as to embrace the same and extend an appreciable distance beyond the end thereof.

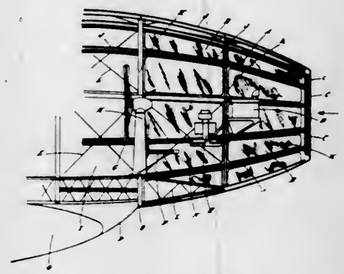
1,339,569. GOLF-BALL MARKER. JESSE D. LYON, Cincinnati, Ohio, assignor to The Fulname Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 10, 1917. Serial No. 153,799. 2 Claims. (Cl. 101—7.)

1. A golf ball marker comprising a ball clamp, arms adapted to mount the clamp rotatively, a base, means operatively connecting the arms and the base adapted to adjust the arms to clamp a ball located in the clamp when operated, a die holder reciprocally mounted on the base, a die mounted in the die holder, and adjustment means adapted to adjust the position of the arms to bring a ball located in the clamp in engagement with the die located in



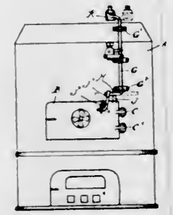
the holder, whereby the die will be embedded in the ball to cause the ball to rotate when the die holder is reciprocated.

1,339,570. CAR FOR AIRSHIPS. JAMES MCKECHNIE, Barrow-in-Furness, England, assignor to Vickers Limited, Westminster, London, England. Filed Apr. 25, 1919. Serial No. 292,720. 4 Claims. (Cl. 244—30.)



1. A car for an airship, the nose of which is employed as an observation station and is made transparent so that an observer stationed therein can obtain an unobstructed view in practically all directions, said car being also provided with a pneumatic buffer bag which is inclosed within a waterproof covering, said covering being attached to the car in such manner as to provide a watertight space or compartment around the lower side of said buffer bag.

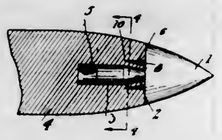
1,339,571. AUTOMATIC DAMPER CONTROL. WILLIAM L. MERSFELDER, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed June 7, 1917. Serial No. 173,385. 1 Claim. (Cl. 126—287.)



In a fuel burning device, the combination with a control damper, and a hinged fuel door, of a damper operating means comprising a shaft having a connection to actuate the damper when said shaft is rotated axially, said shaft having an offset portion, and said fuel door having pin like members adapted to engage said offset of the

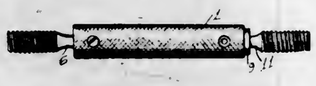
shaft so as to operate the damper automatically with the movement of the fuel door, one of said pins being adjustable to a position outside of the path of the movement of said offset portion for permitting the automatic operation of the damper to be rendered inoperative.

1,339,572. FASTENER FOR SHUTTLE-TIPS. MOOREHOUSE MITCHELL, Quebec, Quebec, Canada. Filed Sept. 15, 1919. Serial No. 323,865. 3 Claims. (Cl. 139—89.)



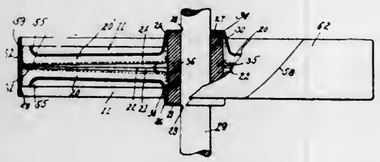
2. The combination with a wooden loom shuttle and a metallic tip, a shank formed with said tip, said shank having a tapered peripheral portion converging toward said tip, and means for causing the wood of the loom shuttle to be compressed around said tapered peripheral portion of the shank when the latter is driven into the loom shuttle.

1,339,573. THREAD-GAGE. CHARLES L. PETTIBONE, Detroit, Mich. Filed Sept. 17, 1917. Serial No. 191,706. 3 Claims. (Cl. 33—199.)



1. A thread gage for use in the inspection of tapped holes consisting of a holder member provided with threaded end members, one of said end members being standard as to diameter and the number of threads per inch and the other of said end members being of the same number of threads per inch, but of different diameter.

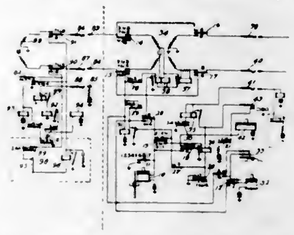
1,339,574. WHEEL. WILLIAM F. PFAU, Cincinnati, Ohio. Filed Mar. 23, 1917. Serial No. 157,000. 11 Claims. (Cl. 64—17.)



1. A wheel of the character described comprising a shell having sides and transversely extending peripheral flanges projecting at an angle from said respective sides, said sides and flanges at the respective sides of the wheel having ribs bent therefrom extending across said angles for forming bracing means for said peripheral flanges and open at the sides of the wheel.

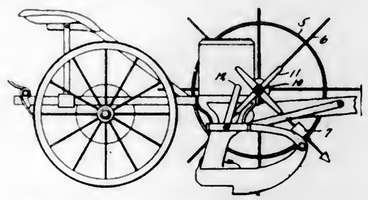
1,339,575. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. LIPA POLINKOWSKY, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 16, 1918. Serial No. 245,223. 6 Claims. (Cl. 179—16.)

1. A telephone exchange system comprising a plurality of exchanges, a two-conductor trunk outgoing from one exchange and incoming at a second exchange, means at said one exchange for extending connections to said trunk, a selective switch at said second exchange, circuits appearing at the terminals of said selective switch, means for operating said selective switch to extend said trunk to said circuits, an auxiliary switch having a plurality of



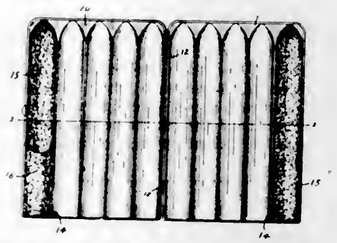
controlling positions for said selective switch, means for releasing said selective switch when said auxiliary switch is in one of its controlling positions, and means for releasing said selective switch in another of the controlling positions of said auxiliary switch when a connection is prematurely released at the outgoing end of said trunk.

1,339,576. CORN-PLANTER. JOHN C. POWERS, Rockwell City, Iowa. Filed July 21, 1919. Serial No. 312,117. 1 Claim. (Cl. 111—16.)



In a check row corn planter, a corn planter having a dropper operating lever, a shaft mounted to rotate on the said planter, a member having arms for engaging the lever and operating it at predetermined intervals, wheels on the said shaft, said wheels having spokes projecting from the rims thereof and adapted to enter the soil to insure proper movement of the said wheels, one of said extended spokes having an enlarged piercing head and a weight on each wheel for restoring it to normal position when said wheels are clear of the soil.

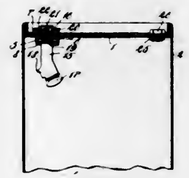
1,339,577. ENVELOP FOR BURNING TOBACCO. FRANK J. ROFFEIS, Helena, Mont. Filed Mar. 31, 1917. Serial No. 158,888. 1 Claim. (Cl. 206—41.)



A case for cigars and the like including a pair of complemental sections adapted to fit together and provided with partitions to form spaces therein for accommodating a supply of cigars or the like and a compartment in one portion of the case cut off from the remainder of the interior of the case and from the spaces occupied by said

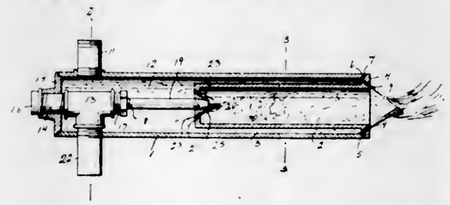
supply of cigars or the like, said cut off compartment adapted to receive a lighted cigar or the like, and a lining of refractory and heat insulating material placed in said compartment.

1,339,578. FAUCET-SUPPORTING MEANS. MORTIMER C. ROSENFELD, Cleveland, Ohio. Filed June 16, 1916. Serial No. 103,933. 2 Claims. (Cl. 221—24.)



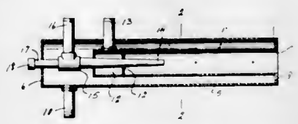
1. Means for supporting a faucet of the type having an enlargement immediately inward of its threaded end, said means comprising an internally threaded tubular member having opposed segmental flanges extending inwardly from its inner end and against which the enlargement of the faucet is arranged to bear when the faucet is inserted front end foremost through the member, the member having drain notches between said flanges, and a threaded plug for closing the outer end of the member, the plug having a non-threaded recess for the accommodation of the threaded end of the faucet.

1,339,579. CRUDE-OIL BURNER. BENJAMIN F. RUNYAN, Houston, Tex., assignor of one-half to Joseph O'Donnell Decuir, Houston, Tex. Filed June 25, 1919. Serial No. 306,675. 11 Claims. (Cl. 158—75.)



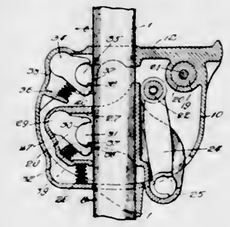
5. In a crude oil burner, the combination with a casing having steam and oil chambers and provided with a mixing chamber, of means adjacent the opposite ends of the mixing chamber for spraying the oil and the combined oil and steam at angles toward each other, whereby the sprays may impinge at a point tangentially to the oil spray.

1,339,580. COMBUSTION-GAS AND CRUDE-OIL BURNER. BENJAMIN F. RUNYAN, Houston, Tex. Filed Sept. 6, 1919. Serial No. 322,164. 1 Claim. (Cl. 158—74.)



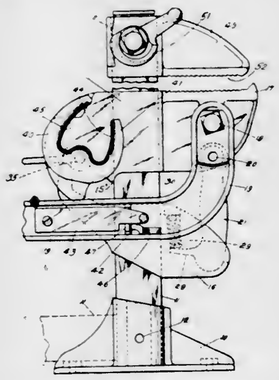
A burner comprising a pressure fluid casing open at one end, a combustion casing open at one end, having a plurality of atomizing apertures, said combustion casing being disposed within the fluid pressure casing and connected at its open end to the fluid pressure casing, the remainder of the combustion casing being spaced from the inner walls and end of the pressure fluid casing, a pressure fluid inlet member communicating with the pressure fluid casing adjacent its closed end, an oil inlet member extending through the pressure fluid casing diametrically opposite the pressure fluid inlet, a nozzle carried by said oil inlet member, said nozzle extending through the end of the combustion casing, a perforated plate surrounding the nozzle within the combustion chamber adjacent the closed end thereof, said plate coöperating with said closed end to form a gas chamber, and a gas inlet extending through said pressure fluid casing and into the gas chamber.

1,339,581. PULLING AND LIFTING DEVICE. SALVATORE SANTINO, Chicago, Ill., assignor to Louis C. Berman, Chicago, Ill. Filed Oct. 14, 1918. Serial No. 257,940. 15 Claims. (Cl. 254—106.)



1. In a jack, a slidable member, means including a lever for moving the member step by step in one direction, and additional means including a slide having connection for movement with the operating lever for moving the member step by step in the other direction.

1,339,582. JACK. SALVATORE SANTINO, Chicago, Ill., assignor to Louis C. Berman, Chicago, Ill. Filed Sept. 12, 1919. Serial No. 323,305. 4 Claims. (Cl. 254—106.)

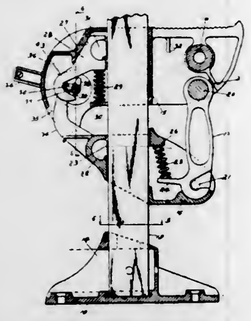


1. A jack comprising a bar; upper and lower members slidably mounted on the bar; a lever pivoted to the upper member and a link connecting said lever with the lower member; a jaw in the lower member; an arm on the lower member; a jaw movably mounted in the upper member; an arm connected with the last-mentioned jaw; and cams operatively associated with said lever for engaging said arms for disengaging the jaws from said bar.

1,339,583. JACK. SALVATORE SANTINO, Chicago, Ill., assignor to Louis C. Berman, Chicago, Ill. Filed Sept. 12, 1919. Serial No. 323,306. 12 Claims. (Cl. 254—106.)

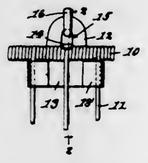
1. A jack comprising a bar; upper and lower members slidably mounted on the bar; a lever pivoted to one mem-

ber; a link pivoted to the lever and said other member; a jaw in the lower member; a jaw-holder in the upper member; a jaw in the jaw-holder; a shaft in the upper mem-



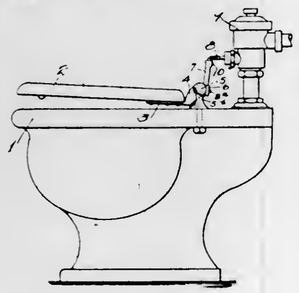
ber; cams on said shaft; a pin associated with said shaft; an arm on the lower member having means thereon adapted to engage said pin for oscillating the shaft to move the jaws away from said bar.

1,339,584. BUCKET-EAR. CLARENCE W. SCHWORM, Massillon, Ohio, assignor to The Massillon Wire Basket Co., Massillon, Ohio. Filed Mar. 2, 1918, Serial No. 219,984. Renewed Feb. 16, 1920. Serial No. 359,202. 1 Claim. (Cl. 220—91.)



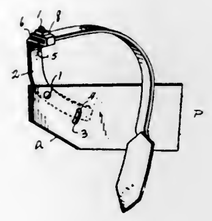
In combination with a bucket having a wire frame the upper ends of the side wires thereof terminating in a coiled edge, a bucket ear including a body, lateral cheek members forming a part of the body, a tongue cut from the ear and adapted to overlie the coiled edge of the bucket the cheek members of the body adapted to embrace the side wires of the bucket, and a plate secured to the body and coöperating therewith for securing the wires of the bucket to the body.

1,339,585. CLOSET-SEAT DEVICE. WILLIAM E. SLOAN, Chicago, Ill. Filed Mar. 17, 1913. Serial No. 754,722. 3 Claims. (Cl. 4—18.)



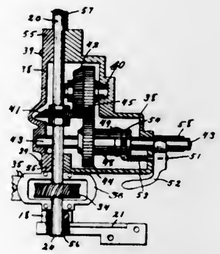
2. A closet seat device comprising a seat, a flush valve associated with said seat, a reciprocating part for operating said flush valve, a connection between said seat and said reciprocating part comprising a flexible part, a rigid part to which the flexible part is adjustably connected and having an opening therein and a pivoted part to which said rigid part is adjustably connected, said flexible part having a portion which is substantially horizontal and a portion which is substantially vertical, said latter portion extending into the opening in said rigid part.

1,339,586. FENDER. SILAS P. TAYLOR, Loretto, Tenn., assignor to Tennessee Implement Sales Co., Loretto, Tenn., a Corporation of Tennessee. Filed Oct. 6, 1919. Serial No. 328,643. 1 Claim. (Cl. 97—13.)



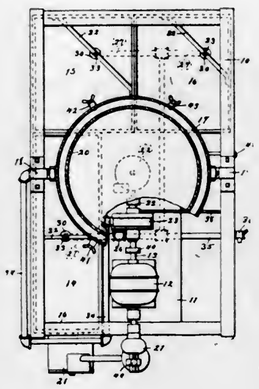
In combination with a support for a ground working implement, an outstanding bracket carried by the support, a plate disposed through the bracket, a fender coacting with the ground working implement and including an upstanding arm, the upper end portion of the arm being provided with a lateral extension terminating in a returned portion, said extension and returned portion straddling the plate, and means disposed through the extension of the arm, the returned portion of the extension and the plate for securing the arm to the plate.

1,339,587. DRIVING MECHANISM FOR POWER WASHING-MACHINES. HERMAN H. TOLL, Clarinda, Iowa, assignor to Clarinda Lawn Mower Company, Clarinda, Iowa, a Corporation of Iowa. Filed Nov. 26, 1917 Serial No. 204,072. 6 Claims. (Cl. 74—46.)



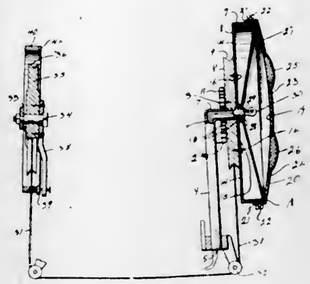
1. In a device of the class described, a support, a driving shaft journaled thereon, a source of power carried by said support and provided with driving connections to said driving shaft, a housing inclosing and having bearings on said driving shaft, a countershaft journaled in and projecting beyond said housing, a stub shaft journaled in said housing parallel with said countershaft, bevel gear connections between said driving shaft and the stub shaft, and clutch-controlled spur gear connections between said stub shaft and the countershaft.

1,339,588. COMBINATION WASHING-MACHINE. HERMAN H. TOLL and FRANK C. DUFF, Clarinda, Iowa. Original application filed Dec. 22, 1917, Serial No. 208,461. Divided and this application filed Oct. 13, 1919. Serial No. 330,304. 5 Claims. (Cl. 68—18.)



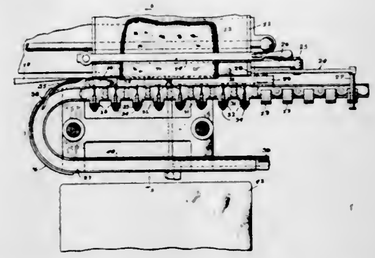
1. A washing machine, comprising a tank adapted to be turned to a horizontal or vertical position, a drum rotatably mounted therein, a plurality of pans, a pump connected with the tank for supplying fluid thereto, means for connecting the pump with either of the pans, and means for draining the contents of the tank to either of said pans when said tank is in a vertical position.

1,339,589. VEHICLE-SIGNAL. WILLIAM R. TONKIN, Bisbee, Ariz. Filed Jan. 17, 1920. Serial No. 352,163. 2 Claims. (Cl. 116—46.)



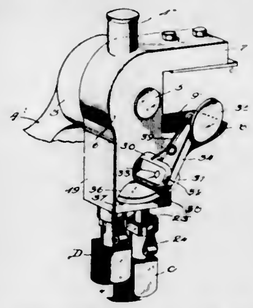
1. A direction indicator for vehicles comprising a tubular supporting member secured to the vehicle, one end portion of said member extending in right angular relation to the body portion thereof to provide a shaft, a drum rotatable on said shaft, a spring surrounding the shaft, one end of said spring being secured to the body portion of the supporting member, the other end being secured to one side of the drum, a casing secured to the other side of the drum, a signal plate carried by the casing, a reflector having its outer edges engaged with the inner surface of said signal plate, a lamp in the end of the shaft, and means for controlling the movement of the signal plate through the medium of the drum and casing.

1,339,590. SLICING-MACHINE. CORNELIS F. M. VAN BERKEL, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed Mar. 8, 1919. Serial No. 281,337. 29 Claims. (Cl. 17—24.)



1. The combination with mechanism for severing slices from a piece of meat, of means for removing the rind from said slices, means for depositing the slices in stack formation, and means for collecting the rind removed from said slices.

1,339,591. SHOE-MACHINE. OTIS R. ANGELL, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Nov. 12, 1917. Serial No. 201,524. 15 Claims. (Cl. 12—78.)



1. In a tool-holding head for edge setting machines having a socket for a tool holder, a tool holder slidable in said socket and provided with a rack, a pinion meshing with said rack and means for turning the pinion.

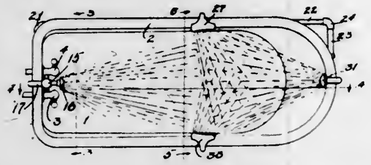
1,339,592. GLOVE AND METHOD OF MAKING SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Oct. 10, 1918. Serial No. 257,558. 17 Claims. (Cl. 66—4.)



14. A two piece knitted glove blank or glove each piece thereof having finger parts of substantially full finger length, each of said pieces being of the width of the hand

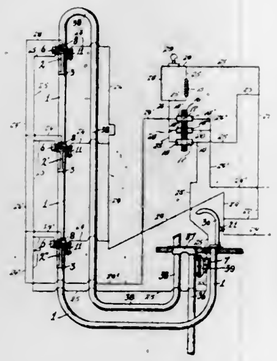
and constituting respectively the front and back thereof, each of said pieces having an integrally knitted selvage about its entire edge where it is to be joined to the other piece.

1,339,593. SHOWER-BATH APPARATUS. WILLIAM C. BOOTH, Chicago, Ill. Filed Mar. 27, 1919. Serial No. 285,580. 3 Claims. (Cl. 4—26.)



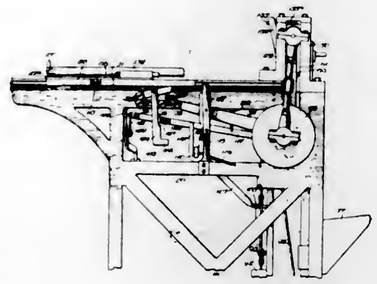
1. In a shower-bath apparatus of the class described, a feed pipe comprising substantially parallel longitudinal portions, a transverse connecting portion, means for adjusting the distance between the longitudinal portions, like means for adjusting the effective length of the longitudinal portions, and water-tight means for locking said longitudinal and transverse portions in adjusted position.

1,339,594. AUTOMATIC LOCKING DEVICE FOR PNEUMATIC-TUBE SYSTEMS. GEORGE F. BOTSCHEIDER, San Francisco, Calif. Filed June 7, 1919. Serial No. 302,558. 2 Claims. (Cl. 243—10.)



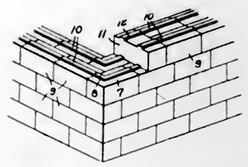
1. In a pneumatic-tube system the combination of a sending tube having a plurality of station Y's, a normally closed swinging clapper in each station Y, a switch carried by each station Y controlled by the movement of said clapper; an electric circuit controlled by said switch; a magnet in said circuit for controlling the air pressure to the system, and a delivery tube at an exchange station, an electromagnet at each Y-station having a core; means actuated by said core to lock and unlock the clapper of that station; a normally open switch disposed in the mouth of each Y station adapted to be closed by the contact of an entering carrier; an electric circuit including said magnets and switches, whereby upon the entrance of a carrier the clapper is unlocked to permit the passage of the carrier into the system; a holding magnet and its core in said electric circuit for cutting out the current to said locking magnets whereby the clappers at all Y-stations are locked and held locked during the travel of the carrier; and a normally closed switch in the delivery tube adapted by the passage of the carrier therethrough for restoring said current to the locking switches and magnets.

1,339,595. BOARD-FILLING MACHINE. CHARLES A. BREWER, Chicago, Ill., assignor to Charles A. Brewer & Sons, a Partnership consisting of Charles A. Brewer, Nelson C. Brewer, Kenneth E. Brewer, and Everett R. Brewer, Chicago, Ill. Filed July 2, 1919. Serial No. 308,226. 44 Claims. (Cl. 226—2.)



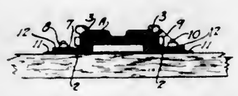
1. In a machine of the character described, the combination of means for holding a perforated board, a grooved bed-plate disposed in a plane substantially normal to the plane of said board when the latter is held by said holding means and adapted to support a plurality of paper strips in the grooves thereof, and means for pushing said strips endwise into the perforations of said board.

1,339,596. BUILDING CONSTRUCTION. THEOPHILE DEPATIE, Montreal, Quebec, Canada. Filed May 12, 1919. Serial No. 296,497. 1 Claim. (Cl. 72—38.)



A wall comprising a plurality of superposed layers of horizontally-laid blocks or bricks arranged longitudinally of the wall and having their top and bottom faces formed with mating locking ribs and grooves located centrally and longitudinally thereof, the ribs and grooves on the contacting faces of superposed bricks interfitting with one another to brace the wall longitudinally; a plurality of cross-bricks disposed transversely of the wall in certain of the layers with their opposite side faces abutting against the ends of the adjacent longitudinal bricks in said layer or layers; the cross-bricks being provided upon their top and bottom faces with mating cross-ribs and cross-grooves which interlock, respectively, with the longitudinal grooves and ribs on the longitudinal bricks directly above and below them to brace the wall laterally and which respectively aline with the longitudinal grooves and ribs on the abutting longitudinal bricks in the same layer or layers to form continuations thereof; and a plurality of longitudinal bricks included in certain of said layers and having on one face at least one transversely-disposed locking element and on the opposite face a longitudinal locking element to interfit with the longitudinal interlocking elements and cross-interlocking elements on the first-named longitudinal bricks and on the cross-bricks, the locking element on one face of each second-named longitudinal brick being in the form of a rib or projection, and that on the opposite face being in the form of a groove; substantially as described.

1,339,597. FLANGE-FROG. ROBERT E. EINSTEIN, St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla., a Corporation of Florida. Filed Feb. 21, 1920. Serial No. 360,301. 17 Claims. (Cl. 246—456.)



2. A flange frog, comprising a cast metal body portion, and guard members separate and distinct from said body portion and provided with wheel rim engaging portions arranged in a higher horizontal plane than the top face of said body portion.

1,339,598. CAST-METAL FLANGE-FROG. ROBERT E. EINSTEIN, St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla., a Corporation of Florida. Filed Feb. 21, 1920. Serial No. 360,302. 3 Claims. (Cl. 246—456.)



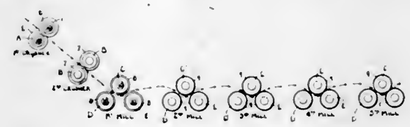
1. A flange frog, comprising a cast metal body portion provided with integral guard members arranged in a higher horizontal plane than the running surface of the frog, integral extensions on said body portion that project laterally from the base of same and rest upon the track ties, and reinforcing devices integrally connected to said extension and to said guard members.

1,339,599. GASKET. GEORGE S. GERREN, Oak Park, Ill., assignor to Sargent Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 26, 1918. Serial No. 259,823. 1 Claim. (Cl. 288—1.)



A gasket of the class described, comprising a ring of rubber of substantial thickness and width, the flat surfaces at opposite ends thereof being provided with circumferential kerfs disposed about the inner perimeter of the ring, and rings of absorbent, heat-resisting fibrous material of substantial width and thickness, embedded in said kerfs and firmly secured to said first mentioned ring so as to extend to the inner perimeter of the gasket, with a seat of rubber intermediate of the rings of fibrous material at both ends of the gasket.

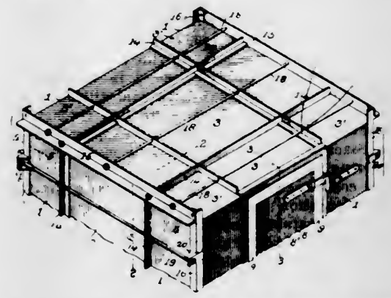
1,339,600. CANE-CRUSHING APPARATUS. HENRY HURTER, St. Louis, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,652. 6 Claims. (Cl. 100—47.)



1. In a combined cane-crushing and juice-expressing apparatus, a primary crusher comprising a pair of crushing rolls having coöperating peripheral crushing ribs, a second crusher comprising a pair of crushing rolls arranged in advance of the primary crusher to receive the cane passing therefrom, the rolls of said second crusher being provided with peripheral crushing ribs of less pitch than the crushing ribs of said primary crusher, and a juice-expressing mill arranged in advance of said second crusher to act upon the cane passing therefrom, said juice-expressing mill being provided with juice-expressing rolls having peripheral ribs of less pitch than the ribs of said second crusher.

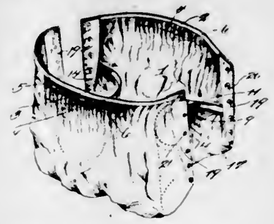
6. In a combined cane-crushing and juice-expressing apparatus, a primary crusher comprising a pair of crushing rolls having coöperating peripheral crushing ribs, a second crusher comprising a pair of crushing rolls arranged in advance of the primary crusher to receive the cane passing therefrom, the rolls of said second crusher being provided with peripheral crushing ribs of less pitch than the crushing ribs of said primary crusher, a juice-expressing mill arranged in advance of said second crusher to receive the cane passing therefrom, said juice-expressing mill comprising three coöperating juice-expressing rolls having peripheral ribs of less pitch than the ribs of said second crusher, and a succession of three-roll juice-expressing mills arranged in advance of the aforesaid juice expressing mill to successively act upon the cane passing therefrom, the rolls of said succession of juice-expressing mills being provided with peripheral ribs of less pitch than the ribs of the first mentioned juice-expressing mill.

1,339,601. SECTIONAL OVEN. ARTHUR MAEHLER, Chicago, Ill. Filed Dec. 13, 1919. Serial No. 344,743. 11 Claims. (Cl. 25—132.)



1. A corner member for sectional ovens of the type described, comprising vertical portions in angular relation, and a rectangular top portion in angular relation to said vertical portions, said portions being integrally formed and provided with grooves in their joining ends for the reception of a joining strip, substantially as set forth.

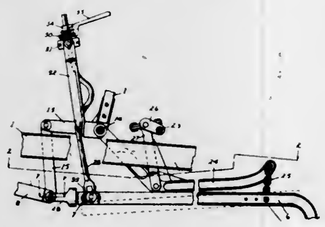
1,339,602. CHILD'S WATERPROOF DIAPER. ELSIE D. MARSH, Watervliet, N. Y. Filed Nov. 19, 1919. Serial No. 339,095. 7 Claims. (Cl. 128—286.)



1. A diaper constructed from a single piece of waterproof material having inwardly and upwardly extending

full leg portions, having their upper portions to engage tightly about the legs of the wearer, the outer portions of the legs of the apparel having separable parts provided with fasteners, thereby holding the legs of the apparel on the wearer as well as holding the waist of the apparel about the waist of the wearer.

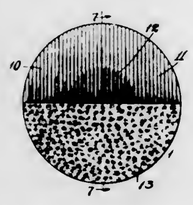
1,339,603. TRACTOR-PLOW. JASON B. MASON, Kalamazoo, Mich., assignor to Reed Foundry & Machine Co., Kalamazoo, Mich. Filed Nov. 14, 1918. Serial No. 262,543. 6 Claims. (Cl. 97—60.)



1. The combination with a main frame, of draw bars pivotally mounted thereon, a cross piece pivoted on the rear end of said draw bars, plows provided with beams, a crosshead to which the front ends of said beams are connected, a swivel connection from said cross head to said draw bar cross piece, means for laterally adjusting said swivel connection on said draw bar cross piece, means for adjustably supporting said draw bars comprising a rock shaft provided with an arm connected to said draw bars, a tilting link connected to one end of said cross head, a bracket on said rock shaft provided with a socket, a spherical adjusting member disposed in said socket and having threaded engagement with said tilting link, said adjusting member being provided with a ratchet, an adjusting lever rotatably mounted on the upper end of said link to coact with said ratchet, and means for raising and lowering said plows.

6. The combination with a main frame, a plow having a draft connection permitting the tilting of the plow, means for adjustably supporting the front end of the plow comprising a rock shaft provided with an arm connected to said plow, a plow tilting means comprising a link connected to the plow, a bracket on said rock shaft, an adjusting link carried by said bracket, and an adjusting means for said link.

1,339,604. HEADLIGHT-GLASS. ABRAHAM L. MORRISON, Dubuque, Iowa. Filed Oct. 30, 1916. Serial No. 128,389. 1 Claim. (Cl. 240—48.4.)



A lens of the class described having perpendicular right and left ribs for approximately half the diameter of the lens, certain of said ribs having a portion of the edges thereof adjacent the center of the lens ground to permit direct transmission of light therethrough, and the lens provided with a chipped face on the other half opposite the ribs.

1,339,605. ROTARY HARROW. JAMES PORTEOUS, Fresno, Calif. Filed Mar. 13, 1919. Serial No. 282,438. 13 Claims. (Cl. 55—13.)

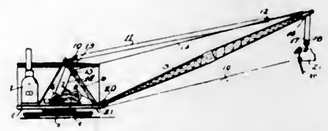


11. In a tool of the character described the combination of two circular harrows, each having an upright axle near the center thereof, boxings in which said axles can rotate, a truss hinged at each end to one of said boxings, rocking fulcrums pivoted to the truss, and a lever pivoted at one end to the upper end of each boxing, an adjustable weight on the other end, said fulcrums being pivoted between the ends substantially as described.

12. In a tool of the character described, the combination of two rotary harrows connected with a truss, and a weighted lever pivotally connected with the truss and adapted to normally press in to the ground that portion of the harrow opposite to the portion under the weight.

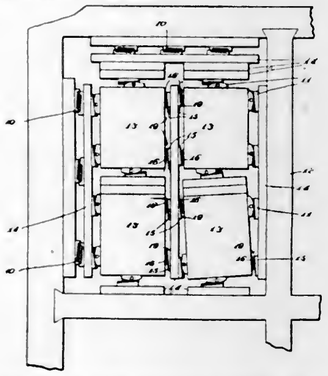
13. In a device of the character described the combination of two rotary harrows each having a verticle axle inclosed in an independent boxing, a truss connecting the boxings, by pivots arranged so that the harrows can rock in line with the truss but not at right angles thereto.

1,339,606. DIPPER FOR EXCAVATORS. MORTON E. PUGH, Fulton, Mo. Filed Apr. 3, 1918. Serial No. 226,370. 17 Claims. (Cl. 37—54.)



1. In an excavating machine the combination of a drag bucket having an openable bottom for discharging the contents thereof, a drag line for actuating the bucket to scoop material therein, and a link locking mechanism at the inlet end of the bucket for holding the openable bottom closed.

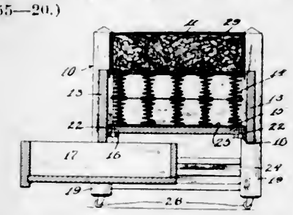
1,339,607. LOCKING MEANS FOR PRINTERS' FORMS. LOUIS J. REICHEL and WILLIAM L. WARNER, Chicago, Ill. Filed Sept. 5, 1919. Serial No. 321,810. 4 Claims. (Cl. 101—394.)



1. Means of the class described, comprising a pair of members, one member being tapered toward one end

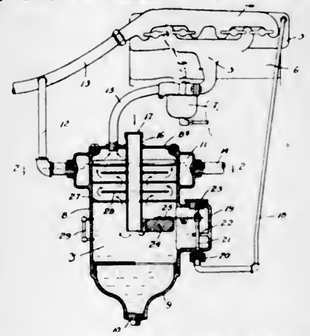
thereof and having one of its surfaces provided with transversely disposed teeth of equi-distant spacing while its other and outer surface is flat, the other member being provided with an outer flat surface and an inner surface which tapers from an intermediate point toward both ends of said member, with the apex or crown of said inner surface being adapted to fit intermediate of adjacent teeth of the first mentioned member.

1,339,608. COUCH. EVELINA P. SMITH, Chicago, Ill. Filed Feb. 13, 1919. Serial No. 276,813. 1 Claim. (Cl. 155—20.)



A device of the kind described comprising a collapsible frame having end members and side members detachably secured thereto, springs within the frame, a mattress supported by the springs, means detachably carried by the side members adapted to support the springs and prevent spreading of the side members, and a drawer slidably supported by said frame having front and rear walls forming downward continuations of said side members.

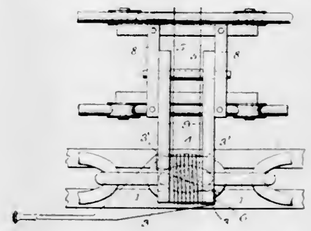
1,339,609. DUST-COLLECTOR FOR CARBURETERS. CHARLES H. STINSON, Superior, Wis., assignor to Stinson Tractor Company, a Corporation of Minnesota. Filed July 2, 1917. Serial No. 178,120. Renewed Sept. 8, 1919. Serial No. 322,398. 1 Claim. (Cl. 261—121.)



The combination with an explosive engine having an intake manifold and an exhaust manifold, of a carbureter connected to the said intake manifold, a dust collecting chamber adapted to contain water, an air intake tube delivering air into said dust collecting chamber below the water level thereof, a clean air tube leading from said dust collecting chamber to said carbureter, an annular chamber surrounding a portion of said dust collecting chamber and having an exhaust passage, flues extending from one side to the other of said annular chamber through the upper portion of said dust collecting chamber, and a connection from said exhaust manifold to said annular chamber for delivering a part of the exhaust therethrough.

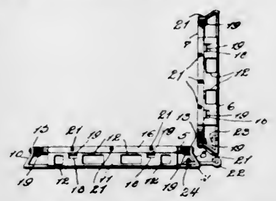
1,339,610. WELD-TESTING DEVICE FOR CHAINS. EDMUND JANUSZ VON HENKE, Milwaukee, Wis., assignor to Thomson Electric Welding Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 8, 1918. Serial No. 248,862. 2 Claims. (Cl. 175—183.)

1. An apparatus for testing welded chain links, consisting of an electromagnet having two pairs of legs or poles adapted to establish two magnetic fluxes through the two welded joints respectively in the two sides of the link, indicating coils magnetically interlinked with the magnetic paths thus established and means for indicating



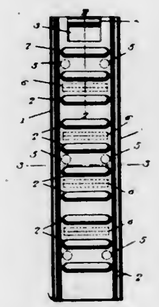
a difference in magnetic reluctance of the two simultaneously established magnetic circuits including said joints when said magnet is excited by an alternating or varying current.

1,339,611. VENTILATED UPHOLSTERED FURNITURE. FRANK ORMOND WHITE, Belleville, Ill. Filed Dec. 15, 1919. Serial No. 345,062. 4 Claims. (Cl. 155—5.)



1. In ventilated furniture, a base plate having its edges bent at a predetermined angle with the base portion of said base plate, said edges correspondingly bent so as to form vertical strips, said base plate perforated in its bent edges with portions partially perforated and bent so as to form brackets, a seat, said seat positioned on the ledges of the bent edges of said base plate and between the vertical strips of said edges, a back plate having its edges bent at a predetermined angle, the edges of said back plate being bent so as to form horizontal strips, said edges perforated and partially perforated, so as to form ledges or brackets, a back, said back positioned on the ledges of the edges of said back plate and between the vertical strips of the edges of said back plate, said back plate and base plate secured in operative relationship.

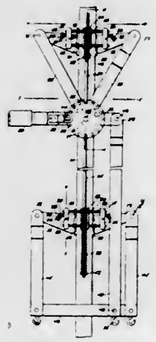
1,339,612. AUTOMOBILE-TOOL. JOHN W. WILKINS, Battle Creek, Mich. Filed Sept. 12, 1919. Serial No. 323,356. 9 Claims. (Cl. 238—14.)



1. A tool for the purpose described comprising a substantially flat metal plate of greater length than breadth

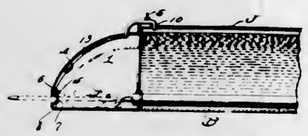
having longitudinal stiffening ribs at each side; and corrugations between the ribs and spaced therefrom; substantially as described.

1,339,613. JACK. JOSIAH F. WILLEY, Wichita, Kans. Filed June 29, 1918. Serial No. 242,560. 7 Claims. (Cl. 254—106.)



1. A support, an upper and a lower clutch member thereon, pivoted dogs for said clutches, spring means for normally sustaining said dogs in engagement with the support, a pivoted lever loosely arranged on the support, links pivotally connected to the dogs of the upper clutch and to the pivots of the lever, and means operated by the lever for first bringing the dogs of the lower clutch member out of contact with the support and for sliding said clutch member on the support, and thereafter permitting the spring means associated with the clutch for returning the dogs to support engaging position.

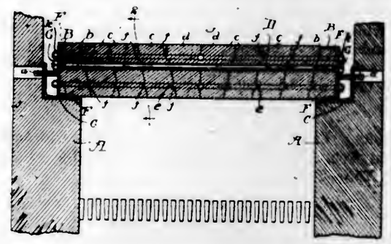
1,339,614. FLASH-ABSORBER FOR MACHINE-GUNS. ELFON P. WOKEN, Northwood, N. D. Filed Mar. 6, 1920. Serial No. 363,784. 6 Claims. (Cl. 89—42.)



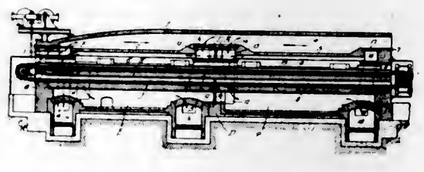
6. The combination with a machine gun including a barrel, and a water jacket inclosing and rising above the same; of a flash absorber comprising a hood having its rear end radially flanged for attachment to the front end of said jacket and its forward end provided with a bullet opening in line with said barrel, said flange being cut away at one point adjacent the barrel, a gate mounted in said cut-away portion, nozzles within the hood directed toward the mouth of the barrel, and pipes connecting them with the steam space of the jacket.

1,339,615. FLAT ARCH FOR FURNACES. OTTO WUNDRACK, Maywood, Ill. Filed Dec. 14, 1916. Serial No. 136,910. 3 Claims. (Cl. 110—99.)

3. In a furnace, the combination with a flat arch comprising a plurality of transverse courses of tile consisting of springer-tiles, arch-tiles and key-tiles, of longitudinal channel-irons against and between the flanges of which the springer-tiles of said courses are seated, longitudinal angle-irons supported by the side-walls of the furnace upon the horizontal flanges of which said channel-irons rest, and set-screws tapped through said angle irons and impinging against channel-irons.



1,339,616. MULTIPLE BAKER'S OVEN. OTTO WUNDRACK, Maywood, Ill., assignor to Petersen Oven Company, Chicago, Ill., a Corporation of Illinois. Substitute for application Serial No. 148,555, filed Feb. 14, 1917. This application filed Mar. 3, 1919. Serial No. 280,384. 16 Claims. (Cl. 107—57.)



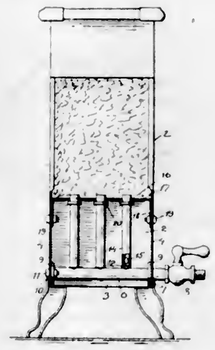
1. A baker's oven comprising a plurality of longitudinally alined communicating oven-units in one continuous structure separated by a common transverse wall each having a baking-chamber and a reheating-chamber extending longitudinally therethrough which communicate and aline with similar chambers in the next oven-unit, suitable communicating heating devices for said units, communicating heat distributing devices therefor, and means for conveying bakery goods rearwardly through the baking chambers that return forward through said reheating-chamber.

1,339,617. LIFE-PRESERVER. WILLIAM M. DENEAU, Chicago, Ill., assignor of one-half to Henry Paschen. Filed Aug. 23, 1919. Serial No. 319,407. 11 Claims. (Cl. 9—20.)



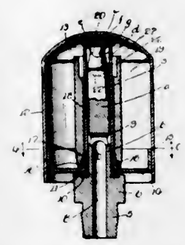
1. As a new article of manufacture, a form-fitting inflatable life preserver extending over the entire area of the torso, comprising an inner and outer wall, sealed to prevent the escape of air, means for inflating said life preserver, the life preserver being inflated so as to obtain an inflation of substantially equal thickness which is substantially equally distributed over the entire area of the torso.

1,339,618. GAS-STOVE. DANIEL N. GROSS, South Fort Smith, Ark. Filed Aug. 23, 1919. Serial No. 319,434. 2 Claims. (Cl. 158—106.)



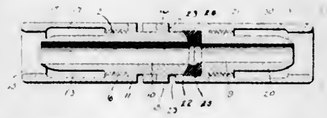
1. In a gas stove, a gas supply tube having nipples provided with perforations, a support or spacing bar parallel to said supply tube and provided with holes in line with said nipples, and burner tubes having at one end loose engagement with said nipples and at the other end fitting loosely in said holes, said burner tubes having lateral extensions adjacent to said support bar and preventing disengagement of the tubes from said nipples.

1,339,619. LUBRICATING DEVICE. AUGIE L. HANSEN, Evanston, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1919. Serial No. 327,197. 17 Claims. (Cl. 184—69.)



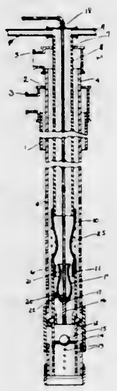
11. In a lubricating device of the class described, the combination of a nipple, a spindle extending therefrom, a cup having a closed bottom, a tube extending through said cup from said bottom for receiving said spindle at its lower end, means for securing the cup to the nipple, said nipple having a passageway and the upper end of said tube being open to the cup interior for the flow of oil therefrom to said nipple passageway, air vent holes at the lower end of said tube closed by said spindle when the cup is secured to the nipple, and a sleeve surrounding and reciprocable on said tube for closing said air vents when said cup is detached from said nipple.

1,339,620. HOSE-COUPLING. ALBERT A. HART, Richmond, Calif. Filed Oct. 15, 1918. Serial No. 258,285. 1 Claim. (Cl. 285—75.)



A hose coupling of the class described comprising two sections, one of which includes a tubular body provided intermediately its length with an abutment shoulder and exteriorly threaded at the rear of said shoulder with its rear end reduced and tapered to provide a spreading wedge, the front end of said body being beveled and having laterally extending pins between said end and said shoulder, a sleeve encompassing said body in rear of said shoulder, and having a thickened interiorly threaded shoulder at one end for engagement with the threads of said body, said sleeve being interiorly thickened at its other end to form a reduced mouth, opening beyond the rear end of said body, the inner end of said mouth being disposed opposite the tapered end of said body; the other section comprising a tubular body with a tapered wedge at its rear end, and thickened intermediately its end on its outer face, said thickened portion being threaded, a sleeve encompassing the rear end of said section and threaded interiorly to engage said thickened portion, said last mentioned section having a cup-shaped head at its front end equipped with bayonet slots to receive the pins of the other section, said head having a gasket seat at its bottom.

1,339,621. APPARATUS FOR RAISING LIQUIDS FROM DEEP WELLS. JOSEPH A. HEBERT, Freeport, Tex. Filed Aug. 7, 1919. Serial No. 315,813. 3 Claims. (Cl. 103—84.)

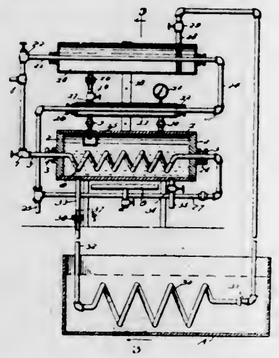


1. In a device for sulfur mining, an outer perforated pipe, an inner imperforate sulfur discharge pipe, a closure between said pipes adjacent the lower ends thereof, a valve chamber on the lower end of said sulfur pipe having perforations on the lower portion thereof, an air pipe in said sulfur pipe and a delivery chamber at the lower end of said air pipe, said sulfur pipe having a constricted passage immediately above said delivery chamber through which the air is adapted to pass.

1,339,622. REFRIGERATING APPARATUS. ROBERT B. HENDERSON and ROBERT E. JAMES, Oklahoma, Okla., said Henderson assignor to said James. Filed May 13, 1918. Serial No. 234,111. 2 Claims. Cl. 62—118.)

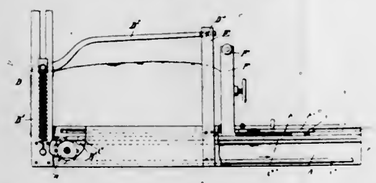
1. A refrigerating apparatus, comprising a generating chamber, means for supporting the same, a dehydrating chamber above and supported by said generating chamber, a gas passage between said chambers, a water return between said chambers, a condenser, a connection between said dehydrating chamber and said condenser, a manually operable valve in said connection, an automatically operable check valve in said connection, a refrigerating coil connected to the condenser and adapted to periodically receive the refrigerant therefrom, means controlling the passage of the refrigerant thereto, a pipe extending substantially vertically downward from the generating cham-

ber for conducting the refrigerant from the refrigerating coil to the generator, an automatically operable check



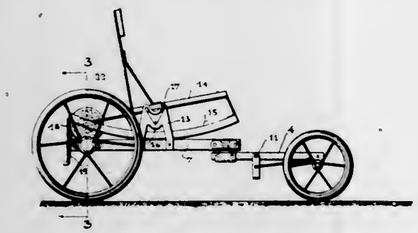
valve in said pipe, means for heating and cooling the generating chamber, and independent means for simultaneously cooling the dehydrating chamber and condenser.

1,339,623. MEAT-SLICING MACHINE. ARTHUR H. HEATZMAN, Baltimore, Md. Filed Oct. 29, 1917. Serial No. 199,075. 12 Claims. (Cl. 17—24.)



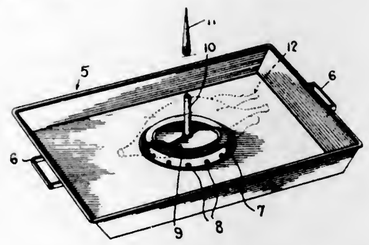
7. A meat slicing device comprising a reciprocating carriage, an endless conveyer mounted thereon, a meat holder, and means intermediate the conveyer and holder for causing the same to move forward together.

1,339,624. CART. JOSEPH HINTZ, Chicago, Ill. Filed Aug. 9, 1919. Serial No. 316,335. 4 Claims. (Cl. 208—38.)



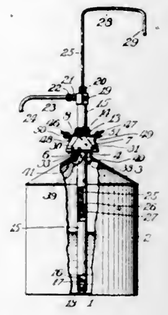
1. In a cart, a frame, rear wheels and front wheels carried thereby, a rocking chair on said frame, a guide bracket, means associated with said rocking chair and arranged to engage said guide bracket for holding said rocking chair on said frame while permitting the free movement of the rocking chair, a downwardly extending bar connected to a rocker of the chair, a grooved wheel carried by the frame, a flexible member attached to the downwardly extending bar and being passed around the grooved wheel whereby the latter is rotated by a rocking movement of the chair, and means associated with said grooved wheel for driving one of said rear wheels when the rocker is moved in one direction and for releasing the driving wheel when the rocker is moved in the opposite direction.

1,339,625. ROASTING-PAN. SARAH ANN HOLLOWAY, Hereford, Tex. Filed Oct. 17, 1917, Serial No. 197,001. Renewed Oct. 1, 1919. Serial No. 327,833. 5 Claims. (Cl. 53—6.)



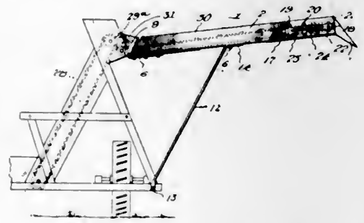
1. In a device of the character described the combination with a pan, a secondary perforated pan positioned therein, a basting tube extending from the secondary perforated pan and an impaling cap removably carried by the basting tube.

1,339,626. DISPENSING-PUMP. CLARENCE HUGHEL, Indianapolis, Ind. Filed Sept. 5, 1919. Serial No. 321,902. 9 Claims. (Cl. 221—83.)



2. A dispensing pump including a base provided with adjustable anchor devices to engage the inside of a container for securing the base to the outside of the container, the base having a central aperture, a pump extending through the aperture, and means coöperating with the base to secure the pump in the aperture.

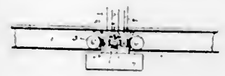
1,339,627. HARVESTER ATTACHMENT. JACOB SCHWARTZKOPF, Hailey, Wyo. Filed May 15, 1918. Serial No. 234,700. 1 Claim. (Cl. 193—14.)



The combination of the elevator frame of a harvester, an elevator therein, a short grain harvester attachment comprising a frame spout extending laterally outward from the upper portion of said elevator frame and that is open at its ends and is entirely closed at its top and is provided in its bottom wall with an intermediate opening, the inner end of said spout arranged to receive short grain from the upper portion of the elevator, hangers at

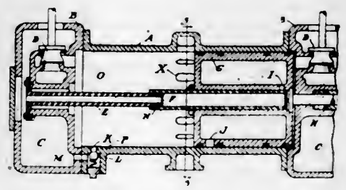
the inner end of the frame comprising members permanently connected to the frame and members detachably connected to the first-named members; said members receiving between them the upper roller shaft of the harvester elevator, means connected to the frame spout and supporting the same from said frame, and an endless apron mounted in the frame spout and extending longitudinally thereof.

1,339,628. AUTOMATIC BALLAST-SHIFTING DEVICE. HOWARD A. SELAH, Newark, N. J., assignor of one-half to Albert C. Pedrick, Newark, N. J. Filed Aug. 22, 1916. Serial No. 116,306. 5 Claims. (Cl. 114—124.)



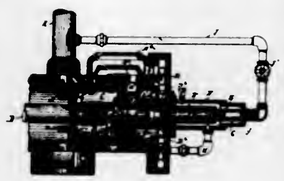
1. In a ballast shifting device, the combination of a swinging pendulum, and a laterally shiftable ballast weight, a reversible electric motor and a source of electric supply in open circuit with said motor, a polarity changing switch in said circuit normally biased to open circuit, and means associated with said pendulum for operating said switch to close said circuit to said motor and actuate the same to shift said weight in a direction opposite to the swing of said pendulum and an automatic brake for preventing the shifting of said weight when said pendulum is in neutral position, and electrical means for releasing said brake upon the swing of said pendulum in either direction.

1,339,629. STEAM-HEATED PISTON. ALLAN D. SKINNER, Erie, Pa. Filed Dec. 4, 1917, Serial No. 205,414. Renewed June 7, 1919. Serial No. 302,633. 6 Claims. (Cl. 121—181.)



6. The combination of a steam engine cylinder and steam chest, a hollow piston in the cylinder, means dependent upon the reciprocation of the piston to supply steam thereto from the said chest and to compress same above the normal pressure thereof, and means to return said compressed steam from the piston to said steam chest.

1,339,630. STEAM-ENGINE. LE GRAND SKINNER, Erie, Pa. Filed June 25, 1919. Serial No. 306,763. 17 Claims. (Cl. 121—181.)



12. The combination of a steam engine cylinder, steam supply pipe and steam chest, a hollow piston in the cylinder, means dependent upon the reciprocation of the piston to supply steam thereto from the said pipe and to compress same above the normal pressure thereof, and means to conduct said compressed steam from the piston to said steam chest.

1,339,631. KEY-RING ATTACHMENT. HENRY SMITH, Richmond, Va., assignor of one-half to John E. Bridgers, Richmond, Va. Filed Mar. 18, 1919. Serial No. 283,425. 3 Claims. (Cl. 59—96.)



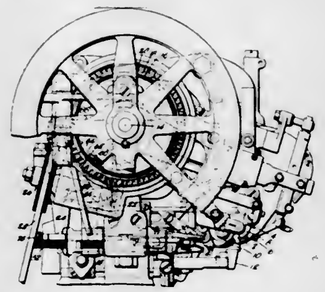
3. In a device of the character described, a length of resilient metal bent in elongated loop-like formation and then bent transversely upon itself to afford a U shaped member, one leg of the U shaped member being split to afford a pair of sections, one section constituting a resilient keeper, the end of the other section being bent upon itself to afford a hook, the hook being disposed beneath the keeper, the U shaped member being adapted to be engaged with a key ring and provided with a slot to receive a second ring.

1,339,632. COMB. SACRAMENTA G. TANKINS, Atlantic City, N. J. Filed Dec. 12, 1919. Serial No. 344,280. 3 Claims. (Cl. 132—3.)



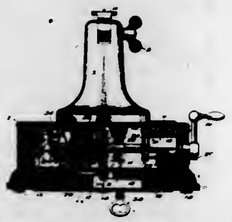
1. A hair dressing comb adapted to be heated comprising a back, teeth, and a shank, and a thermometer carried by the shank and having its bulb end located adjacent the back and teeth.

1,339,633. INSEAM SHOE-SEWING MACHINE. JOSEPH E. THAYER, West Bridgewater, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 6, 1917. Serial No. 178,902. 11 Claims. (Cl. 112—46.)



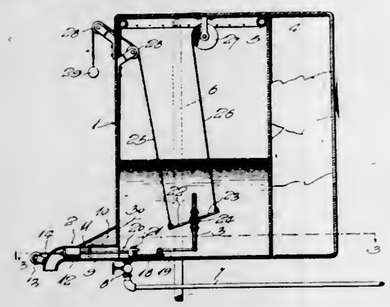
1. A machine for sewing inseams of welted shoes, having in combination, stitch forming devices, welt gripping and severing devices comprising a gripper slide bar, a cutter slide bar, a coupling device loosely mounted in an opening in one of the slide bars and arranged to be automatically actuated and controlled by the movement of the slide bars so as to engage and disengage the other slide bar to connect and disconnect the slide bars.

1,339,634. PREPAY TIME-CONTROLLED-SERVICE APPARATUS. WILLIAM H. THOMPSON, Memphis, Tenn.; J. D. Thompson, administrator of said William H. Thompson, deceased, assignor, by mesne assignments, to Richard T. Van Riper, Dallas, Tex. Filed Apr. 27, 1916, Serial No. 93,901. Renewed Oct. 10, 1919. Serial No. 329,892. 2 Claims. (Cl. 161—1.)



1. In a time controlled service apparatus, the combination with a time movement, of an electric switch controlling service, means controlled by the switch for controlling the starting and stopping of the time movement, means controlling the switch, which, in turn, is operated by the time movement, and normally inoperative manual winding means capable of different degrees of operation whereby the time movement may be wound up to different desired degrees to condition the switch controlling means to correspond to different desired periods of elapsed time before the time movement will cause the switch controlling means to coöperate with the switch, said winding means requiring the use of one or more coins to enable it to be operated, according to the degree of winding desired.

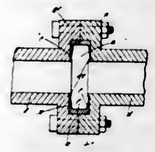
1,339,635. DISPENSING APPARATUS. THEMIOS TRIPOLITIS, Cleveland, Ohio. Filed Aug. 28, 1919. Serial No. 320,364. 2 Claims. (Cl. 221—114.)



1. In a liquid dispensing apparatus, a tank having an outwardly extending spout provided in its side with an opening, a liquid measuring pocket in communication with the interior of said spout by means of said opening, and a sliding valve in said spout normally disposed outwardly beyond said opening, but capable of moving inwardly to expose said opening, whereby the liquid contained in said pocket may be discharged, said pocket being normally in communication with said tank by way of said spout.

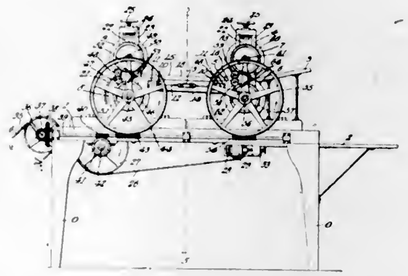
1,339,636. FLUID-TIGHT JOINT FOR STEAM-PIPES AND THE LIKE. THOMAS GREGORIE TULLOCH, Westminster, London, England. Filed Jan. 30, 1918. Serial No. 214,486. 2 Claims. (Cl. 285—130.)

1. A fluid tight joint of the kind set forth comprising a pair of jointed flanged members adapted to produce between the adjacent faces of the flanges a single joint and an annular channel, a cupped flexible walled ring of a hard and resilient metal placed in the said channel and supported by said jointed members so that the portion of said ring extending between the walls covers the joint between the meeting faces of the flange portions of the jointed members, and means for connecting the said



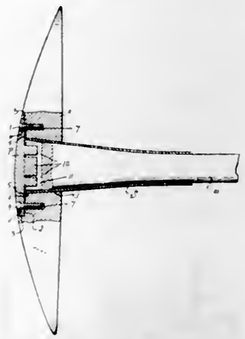
jointed members so as to compress the sides of the said ring against the elastic resistance of the metal for the purpose specified.

1,339,637. DOUGH-COMPRESSOR. RICHARD RAYMOND TYBOUT, Philadelphia, Pa., assignor to Guano & Raggio, Inc., Philadelphia, Pa. Filed Aug. 11, 1919. Serial No. 316,853. 7 Claims. (Cl. 107—12.)



1. In a dough compressor, the combination of a fixed inclined dough feeding table, adjustable compressing rolls between which the dough is fed from said table, one of said rolls being corrugated, a second set of adjustable compressing rolls spaced a distance from the first set, one of said rolls being corrugated, and an endless conveyer extending between said rolls, whereby the dough may be fed from one set of rolls to the other and compressed to the desired degree with the use of only two sets of rolls.

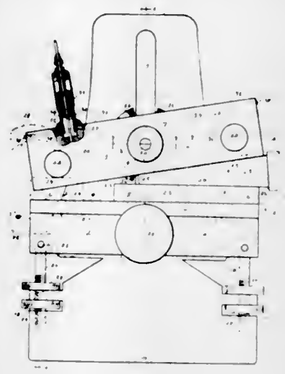
1,339,638. PICK. JOHN A. VELCHANSKY and STANLEY STEFANIAK, Hamtramck, Mich. Filed Aug. 13, 1919. Serial No. 317,365. 1 Claim. (Cl. 287—35.)



An implement of the class described comprising, in combination, a head provided with an eye, a handle insertible through the eye, a sleeve surrounding the portion of the handle within the eye and having a flange at its outer end overlying the forward face of the head, the marginal portion of the head defining the eye being substantially

concave to receive the flange of the sleeve, a plate snugly fitting within the recess and overlying the eye and the flange at the outer end of the sleeve, and a clamping member disposed through each end portion of the plate and in threaded engagement with the head, the central portion of the plate being provided with inwardly disposed and longitudinally spaced wedges extending within the eye of the head and within the adjacent end portion of the handle to expand said end portion of the handle.

1,339,639. DEVICE FOR GAGING TAPERING BODIES. FREDERICK E. VOIGT, Grand Haven, Mich. Filed May 14, 1919. Serial No. 297,041. 4 Claims. (Cl. 33—174.)



1. In a device of the character described; a table adapted to support a work piece; a sine bar adapted to gagingly contact the work piece oppositely to the table and being mounted swingably on an axis extending in a direction transverse to the table; means for holding the sine bar in swung position and in spaced relation to the table; the sine bar having portions extending transversely to the plane of its movement and in determined spaced relation to its work-contacting surface, and the table having an under surface in determined spaced relation to its work-supporting surface.

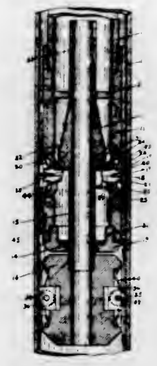
1,339,640. DENTAL PLATE OR DENTURE. JOHN WILLIAMS, Liverpool, England. Filed Oct. 14, 1918. Serial No. 258,008. 1 Claim. (Cl. 32—4.)



A dental plate or denture, comprising a vulcanite plate, an aperture formed in it, a cap or ferrule having an inwardly projecting ledge secured in the said aperture, a rubber diaphragm inserted from above into this cap so as to rest on the ledge, and a piece of spring wire clamping the edge of the diaphragm on the ledge.

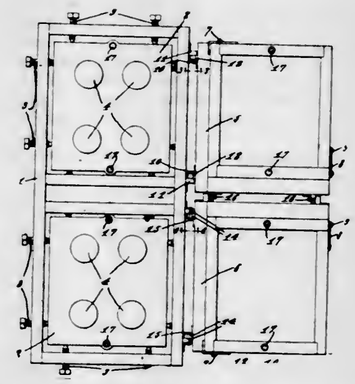
1,339,641. PIPE-CUTTER. JOHN F. WRIGHT, Damon, Tex. Filed June 2, 1919. Serial No. 301,169. 5 Claims. (Cl. 81—195.)

1. In a pipe cutter, the combination of a housing, cutters mounted in blocks slidable radially therein, the inner ends of said blocks being threaded, a tapered mandrel between said blocks, threads on said mandrel adapted to co-



operate with said threaded blocks to advance said cutters and means operative when the larger end of said mandrel has passed said blocks to withdraw said cutters.

1,339,642. MOLDING DEVICE. EUGENE L. BAKER, Taunton, Mass. Filed Feb. 3, 1920. Serial No. 356,041. 1 Claim. (Cl. 22—105.)

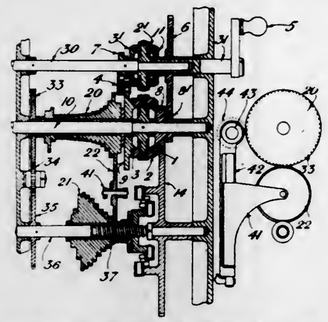


In a device of the class described, a pattern frame; a pair of sand frames; first hinges uniting the sand frames with the pattern frames whereby both sand frames may be swung on top of the pattern frame and be swung off the pattern frame, one of the first hinges comprising separable parts whereby one sand frame may be swung on top of the other sand frame after both sand frames have been swung off the pattern frame; and a second hinge connecting the sand frames and permitting one sand frame to be swung on top of the other sand frame as aforesaid.

1,339,643. APPARATUS FOR THE CONVERSION OF MOTION OF ONE TYPE INTO MOTION OF ANOTHER TYPE. ARCHIBALD BARR and WILLIAM STROUD, Glasgow, Scotland, assignors to Barr and Stroud Limited, Anniesland, Glasgow, Scotland. Filed Aug. 15, 1918. Serial No. 250,087. 10 Claims. (Cl. 74—34.)

1. Apparatus comprising three gear elements constituting a main differential gear, means for applying to the first and second elements forces tending to drive them

in opposite senses so far as their effects on the third element are concerned, associated with mechanism for con-



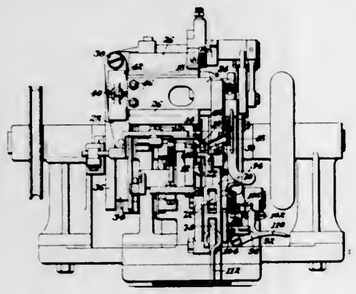
trolling the ratio of the motions imparted to the first and second elements in a predetermined progressively varying manner, for the purposes set forth.

1,339,644. LINEAR COUNTER-RULE. PARKER G. CHAMBERLAIN, Spokane, Wash., assignor of one-half to Alice R. Chamberlain, Spokane, Wash. Filed June 5, 1919, Serial No. 301,972. Renewed Feb. 28, 1920. Serial No. 362,600. 3 Claims. (Cl. 33—76.)



1. In a linear counter rule device for measuring drygoods or like flexible material, the combination with a counter or table having a side edge, an elongated rule of rectangular cross section having an attaching and a graduated face, means for securing said rule to the counter with its attaching face against the edge of the counter and its graduated face uppermost and flush with the top of the counter, the ends of said rule being rounded off and converging at their rounded-off terminals to apices flush with the attaching face to thereby present on the upper, outer and lower face rounded end portions, and measuring abutments fixed on said upper face and each abutment having an abutment portion projecting upwardly from said graduated face and said portions of said abutments facing each other and being exactly at the extreme terminals of the graduations, said abutments extending transversely of the rule completely across the graduated face thereof and the end portions of said abutments being tapered off.

1,339,645. SHOE-SEWING MACHINE. ANDREW EPPLER, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 22, 1916. Serial No. 92,854. 7 Claims. (Cl. 112—62.)



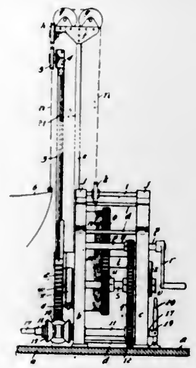
1. A shoe sewing machine, having in combination, a yieldingly mounted work support, a presser foot fixed against vertical movement coöperating therewith to clamp the projecting edge of a shoe sole, means for imparting feed and return movements to the presser foot during each cycle of operations of the machine, and means acting during each cycle of operations of the machine for depressing the work support during the return movements of the presser foot.

1,339,646. CONVEYER-BELT. JOHN C. FREY, Middletown, N. Y., assignor to Ideal Wrapping Machine Company, a Corporation of New York. Filed May 31, 1917. Serial No. 171,861. 9 Claims. (Cl. 193—4.)



5. A conveyer belt of flexible material, rigid partition members secured at points along said belt extending above and below said belt, projections on the ends of said partitions and members on the belt and partition engaged by the projections to hold the belt and partition members associated.

1,339,647. BOAT-LAUNCHING APPARATUS. CHARLES H. FULLER, Portland, Oreg., assignor to Fuller Davit Company, Portland, Oreg., a Corporation of Oregon. Filed June 30, 1916. Serial No. 106,989. 2 Claims. (Cl. 9—22.)

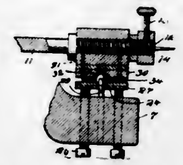


1. In a boat launching apparatus of the character described, parallel segment gears rotatable on a horizontal axis, davit-arms carried by such gears, means for controlling the rotation of said davit-arms through the medium of said gears, sheaves carried by the free-ends of said davit-arms, rotating in a plane transverse to the axis of rotation of said davit-arms, a fixed post adjacent each davit-arm, sheaves at the top of the post, such sheaves rotating in the same plane as the sheaves carried by the davit-arms and overlying the latter sheaves, a winding drum, boat-falls winding thereon, means for guiding the boat-falls over the top of said posts and to said sheaves carried by the latter, and means for rotating said drums.

1,339,648. PHONOGRAPH AND ANALOGOUS APPARATUS. ELWOOD GRISSINGER, Buffalo, N. Y., assignor to Lucy Ash Grissinger, Buffalo, N. Y. Filed June 12, 1918. Serial No. 239,513. 18 Claims. (Cl. 274—35.)

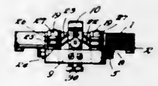
1. In an apparatus of the class described, a lever, means for pivotally vibrating said lever, a suitable support, and means for pivotally mounting said lever on said support, said means comprising pivotal bearings, one of which is formed with curved contact surfaces in combination with steel wires of great tensile strength secured

to the support and engaging said lever symmetrically with respect to the pivot and extending in directions adapted



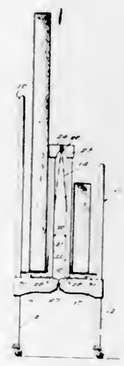
to stress said lever against said surfaces, and adjustable means for stretching said wires to a tension approaching the limits of safe elastic stress.

1,339,649. PHONOGRAPH AND ANALOGOUS APPARATUS. ELWOOD GRISSINGER, Buffalo, N. Y., assignor to Lucy Ash Grissinger, Buffalo, N. Y. Filed Mar. 28, 1919. Serial No. 285,828. 18 Claims. (Cl. 274—35.)



1. A sound box having a diaphragm, a lever secured to the diaphragm, convex bearing surfaces on the box and co-acting surfaces on the lever adapted for rocking contact thereon, in combination with a stretched wire engaging the lever and secured to the box on opposite sides thereof in a plane passing through to the line of pivotal contact of said bearing surfaces and at equal opposite angles to said line of contact, together with means for adjusting one of said bearing surfaces in said plane.

1,339,650. FOLDING BED. REUBEN HAIGHT, Hudson, N. Y. Filed Feb. 3, 1920. Serial No. 356,001. 5 Claims. (Cl. 5—9.)



1. A bed of the type described embodying head and foot pieces, side rail supporting members secured to and extending a substantial distance inwardly of said head and foot pieces, said supporting members being provided with openings, and a pair of hinged side rail sections, the free ends of said sections being provided with downturned ends adapted to be inserted within the openings in said side rail supporting member.

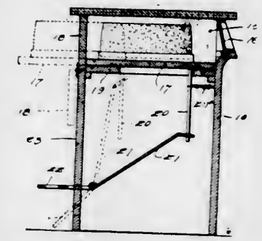
1,339,651. DEMOUNTABLE RIM. JOSEPH W. HIGGINS, Bordentown, N. J. Filed Aug. 5, 1919. Serial No. 315,491. 3 Claims. (Cl. 152—21.)

1. The combination with a split automobile rim having side flanges; of a slide plate contacting with the inner periphery of said rim and having its edges turned around said side flanges, said side plate being adapted to extend across the split of the rim to retain the rim ends in alinement, said rim ends and slide plate having register-



ing openings, locking studs insertible through said openings to lock said rim ends and slide plate together, and flat springs secured to the central portions of said rim ends and carrying said studs.

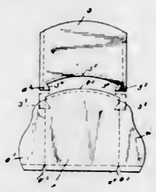
1,339,652. DISPENSING-COUNTER. WILLIAM LUTHER HUMPHERYS, Sarasota, Fla. Filed July 11, 1919. Serial No. 310,191. 2 Claims. (Cl. 211—11.)



1. A counter having therein a compartment with a hinged door in one vertical wall, a slide resting upon the bottom of said compratment and slidable horizontally out through the space normally closed by said door, a pedal mounted in the counter, a rod extending downward from the slide with which the inner end of the pedal is operatively engaged, and a spring normally holding the slide retracted.

2. A counter having therein a compartment with a hinged door, a slide mounted in the compartment and slidable horizontally out through the space normally closed by said door, the bottom of the compartment being formed with a slot extending parallel to the path of movement of the slide, a pedal projecting out from the counter and pivoted in the space inclosed by said counter and having a rearwardly and upwardly projecting portion formed at its extremity with a loop, the slide having a downwardly extending pin passing through said slot in the bottom of the compartment engaged by said loop, and a spring normally holding the slide retracted.

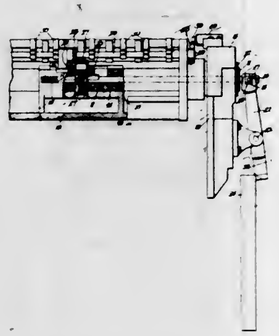
1,339,653. BAG OR SUITCASE. JOSEPH M. KATZ, Brooklyn, N. Y. Filed Mar. 31, 1919. Serial No. 286,226. 2 Claims. (Cl. 190—53.)



2. A bag composed of side pieces, a bottom and end pieces made each of two superposed sections, the upper sections having each downwardly extending tongues adapted to rest on and be fastened to the inner surface of the lower sections and to have the appearance of integral pieces and the lower sections being formed with lateral flaps extending throughout the entire height of

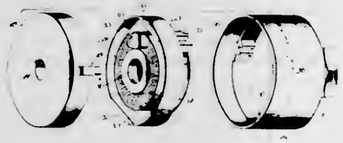
said sections and adapted to be folded over the side walls of the bag and to be fastened thereto, forming gusset corners, the lower edges of said lower sections being folded over the outer face of the bottom of the bag and provided with angular cuts to prevent creases.

1,339,654. GRIPPER-ACTUATING MECHANISM. WILLIAM M. KELLY, Jersey City, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 31, 1917, Serial No. 172,085. Renewed Mar. 20, 1920. Serial No. 367,430. 6 Claims. (Cl. 101—409.)



1. In a printing press having an impression cylinder, gripper fingers carried thereby, means for actuating the said fingers in timed relation with the cycle of movement of the press and coöperating means on the cylinder and press frame for taking over the operation of said fingers during the final portion of their gripping movement.

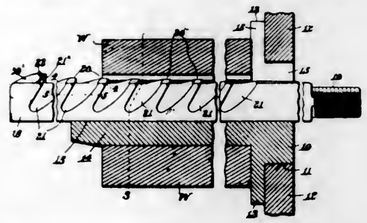
1,339,655. MAGNETO-GOVERNOR. THERON J. KRESKY, Marysville, Calif., assignor to Edward C. Newton, Marysville, Calif. Filed Jan. 19, 1917. Serial No. 143,322. 7 Claims. (Cl. 123—149.)



1. A unitary magneto driving connection comprising in combination a universal coupling adapted to be attached to a driving means, a continuously acting automatic spark advancing mechanism responsive to the speed of the driving means and a device for intermittently retarding and accelerating the angular velocity of the armature shaft.

1,339,656. CUTTER-BAR AND BUSHING THEREFOR. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed May 13, 1919. Serial No. 296,947. 4 Claims. (Cl. 90—33.)

1. In a device of the class described, a cutter bar having a body portion rectangular in cross section from one face of which projects a narrower centrally disposed member provided with a plurality of cutting teeth extending transversely thereof, said body portion being provided with tapering channels between said teeth, all extending from one side of said member to the opposite side of the



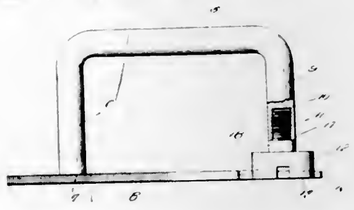
body portion and inclined downwardly and rearwardly from said teeth.

1,339,657. FINISHING-BROACH. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed June 26, 1919. Serial No. 306,993. 9 Claims. (Cl. 90—33.)



1. A device of the class described consisting of a member having a cylindrical portion at one end and a helical cutting member extending therefrom toward the other end and gradually increasing in diameter, said cutting member having flattened portions at intervals.

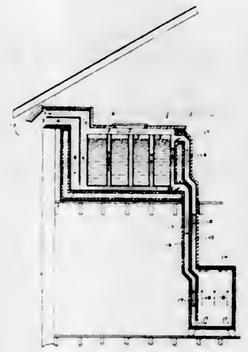
1,339,658. FILE-HANDLE. JOHN E. LOVELL, Hastings, Nebr. Filed Apr. 18, 1919. Serial No. 290,915. 6 Claims. (Cl. 29—80.)



1. A file holder including a longitudinally arched handle and a head mounted for rotation on one end of the handle and provided with intersecting seats of different sizes for the reception of the shank of a file.

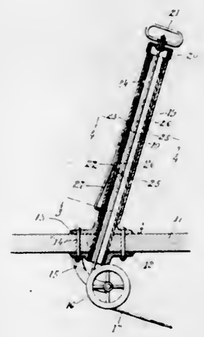
1,339,659. APPARATUS FOR REFRIGERATION. JOSEPH MCCOY, Minneapolis, Minn. Filed Sept. 13, 1917. Serial No. 191,280. 6 Claims. (Cl. 62—109.)

1. In a refrigerating apparatus the combination, with the walls of a building, of a refrigerating chamber positioned within said walls and substantially surrounded with heat insulation, a passageway leading to the lower portion of said refrigerating chamber from the exterior of said building and a second passageway leading from



the upper portion of said refrigerating chamber to the exterior of said building whereby a thermal circulation may be effected from the exterior of said building through said reservoir.

1,339,660. ACTUATOR FOR TRAFFIC-SIGNALS. JAMES M. MIDDLEBROOKS, Birmingham, Ala. Original application filed Oct. 1, 1918, Serial No. 256,409. Divided and this application filed Feb. 21, 1919. Serial No. 278,462. 6 Claims. (Cl. 74—39.)

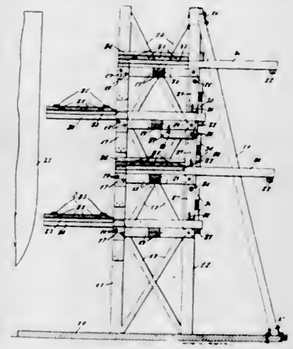


1. An actuator of the character described including a post, vertically spaced ledges formed thereon, a sleeve slidably adjustable vertically upon the post, a flexible actuating element connected with said sleeve, and means carried by the sleeve and adapted to selectively coöperate with said ledges for supporting the sleeve in vertically adjusted position upon the post.

1,339,661. STAGING. FRED C. MILTON, Eastside, Oreg. Filed Sept. 18, 1918. Serial No. 254,588. 3 Claims. (Cl. 304—2.)

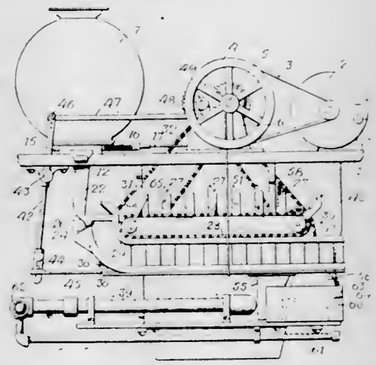
1. A staging comprising uprights, horizontally slidable platforms including supporting beams and flooring boards secured to said beams, said flooring boards being capable

of passing between the uprights, means for preventing further forward movement of said platforms when they



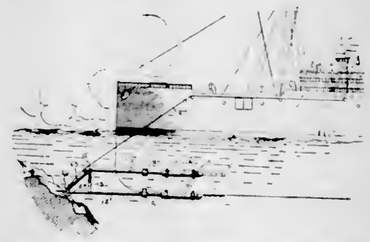
are in an extended position, and means for preventing movement of said platforms when they are in said extended position.

1,339,662. MACHINE FOR MAKING POPCORN. THOMAS MORGAN, Worcester, Mass. Filed Feb. 9, 1917. Serial No. 147,683. 14 Claims. (Cl. 53—4.)



7. In a machine of the class described, a reciprocating plate for supporting the grains, and means traversing the surface of said plate for advancing the grain thereon, means for segregating a measured charge of grains, and means actuated by the movement of said traversing means for releasing said charge to be advanced thereby on said reciprocating plate.

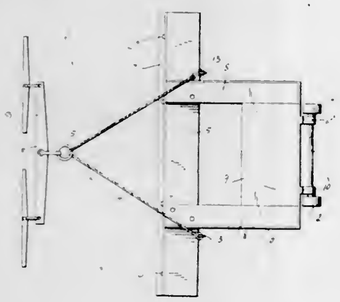
1,339,663. FENDER FOR SHIPS. YOSHINOBU NAKABAYASHI, deceased, Seattle, Wash., by KISABURO NAKABAYASHI, administrator, Seattle, Wash. Filed Aug. 12, 1919. Serial No. 317,091. 4 Claims. (Cl. 114—219.)



1. A fender for ships comprising a plurality of casings to be secured to the hull of the vessel on the sides of the

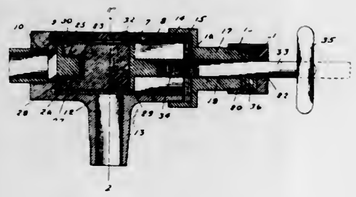
same and on the keel thereof, plungers slidably mounted in the respective casings, rods projecting forwardly from the plungers, the rods on the sides of the vessel having their forward portions conforming to the shape of the vessel and brought together in advance of the hull, means for connecting the front ends of all said rods, and means for holding the plungers normally in their foremost positions.

1,339,664. DRAG. CHARLEY E. NELSON, Morgan, Tex. Filed Sept. 27, 1919. Serial No. 326,715. 5 Claims. (Cl. 37—5.)



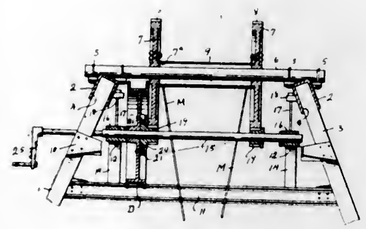
2. In a device of the character described comprising a ground engaging drag member, scraping means carried by said drag member, draft means connected to the rear of said drag member and extending over the top of said member, a platform extending rearwardly from the drag member, ground engaging wheels carried by the free end of the platform, said platform being arranged, when weight is applied thereto, to hold the drag member and scraping means in engagement with the ground to regulate the pitch of the drag member by resisting the tendency of the draft means to swing the top of the drag into engagement with the ground.

1,339,665. AIR AND GAS VALVE. ALBERT OTTO and WILLIAM OTTO, Kansas City, Mo., assignors of one-half to Francis E. Scott and Glenn Butler, Kansas City, Mo. Filed May 27, 1919. Serial No. 300,089. 4 Claims. (Cl. 251—77.)



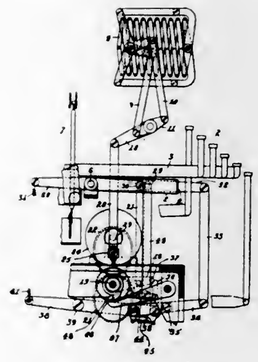
3. The combination with the valve casing having a valve chamber and an outlet opening at one end and a valve seat surrounding said opening and having an inlet opening in the side between its respective ends, of a valve within said chamber comprising a slidable rotatable core piece having a fixed disk at one end and a removable disk at the other end, a longitudinally slotted expansion sleeve on said core piece retained between said disks, a fixed key in said valve chamber extending within said slot in the expansion sleeve, a cap on said valve casing and an internal screw threaded member on said cap and an externally screw threaded valve stem rigidly connected with the fixed disk on the core piece and extending through the internal screw threaded member of said cap.

1,339,666. STUMP-PULLER. CARL D. PACE, Oxford, Ala., assignor of one-half to Joseph C. Wheeler, Anniston, Ala. Filed July 16, 1919. Serial No. 311,264. 6 Claims. (Cl. 254—145.)



1. A stump puller comprising a frame, a driving shaft supported thereby, a winding element rotatably supported by the frame and in driven connection with the shaft, a power drum loosely mounted upon the shaft, coacting means carried by the shaft and the power drum whereby said drum and shaft rotate in unison upon movement of the drum in one direction, and means for rotating the shaft independently of the drum.

1,339,667. MOTOR-DRIVE FOR TYPESETTING-MACHINES. PABLO PARIS, New York, N. Y. Filed Aug. 13, 1919. Serial No. 317,114. 18 Claims. (Cl. 276—19.)

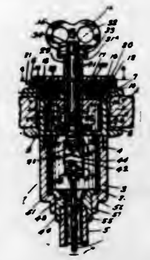


2. In a type setting machine, the combination with type selecting means, a keyboard connected with the selecting means, and means for conveying selected type, of means for actuating the conveying means, comprising a motor with a continuously rotating shaft, a clutch device having connections with the motor shaft and with the advancing means whereby on actuation of any key, after the key has operated the selecting means, the motor will actuate the conveying means, and means for releasing the clutch when the conveying means has advanced the selected type and returned to normal position, said clutch connections including means whereby the said conveying means is first given an accelerated movement and then given a retarded movement.

1,339,668. COMBINATION-LOCK. GEORGE B. POINDEXTER, Bremerton, Wash. Filed Oct. 30, 1919. Serial No. 334,624. 9 Claims. (Cl. 70—53.)

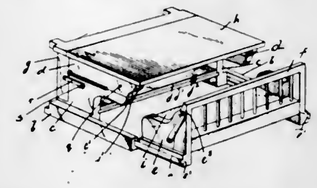
1. In a combination lock, comprising a casing, a stem disposed for rotary and axial movement within the said

casing, locking means disposed within said casing, means carried by said stem to operate the aforesaid locking



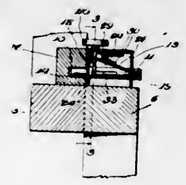
means and means carried by the said stem to engage means on the casing to prevent axial movement of said stem when said stem is in an advanced position.

1,339,669. FOLDABLE FURNITURE. ANDREW RAPP, New York, N. Y. Filed Jan. 30, 1920. Serial No. 355,086. 4 Claims. (Cl. 155—41.)



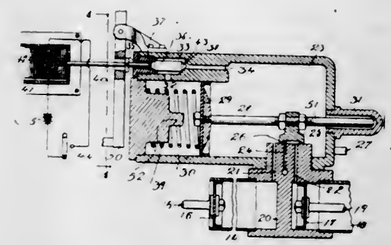
1. A convertible piece of furniture, composed of two separate units, of which one constitutes a desk and the other a settee, both said units being extendibly engaged with one another to be capable of contraction and expansion, the top of the desk being tiltable so that in unfolded position it will be even with the seat of the settee and constitute with same a bed, and a foldable shelf like member below the top adapted in unfolded position to overbridge the space between the seat and the unfolded top to complete the bed.

1,339,670. SASH-LOCK. HERMAN REINL, Secaucus, N. J. Filed Oct. 15, 1919. Serial No. 330,772. 4 Claims. (Cl. 292—175.)



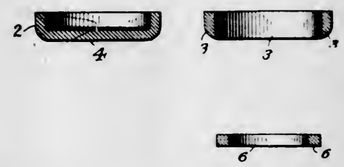
1. A lock of the class described including a casing, a barrel arranged within the casing and secured to the opposite ends of the same, a bolt slidably carried by said barrel and having a laterally projecting trigger, a latch horizontally pivoted at its forward end within said casing and having a recess intermediate of its ends adapted for the reception of said trigger, spring means associated with said latch for positively connecting the same with said trigger, the rear end portion of said latch being disposed exteriorly of said casing, and a keeper associated with said bolt, said latch being inclined downwardly from its pivoted end to its free end whereby said trigger in moving rearwardly in a horizontal plane will be directed into the trigger receiving recess within the latch.

1,339,671. POWER-OPERATED MECHANISM FOR MOVING DOORS OR THE LIKE. HAROLD ROWNTREE, Kenilworth, Ill., assignor to National Pneumatic Company, Chicago, Ill., a Corporation of West Virginia. Filed Oct. 16, 1912. Serial No. 725,985. 10 Claims. (Cl. 121—41.)



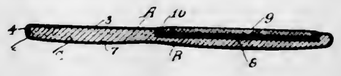
1. In an apparatus of the class described, a motor, and means for controlling the supply and exhaust of operating medium to and from the motor, including a valve, a single piston, and piston rod, for operating the valve, a pilot valve to control the supply of operating medium to one side of the piston and the exhaust of pressure from that side of the piston, means for maintaining a constant supply of fluid pressure in the opposite side of said piston, means effective to hold the valve in one extreme position when the pressure is equalized on opposite sides of said piston, and means manually controlled for controlling said pilot valve.

1,339,672. PROCESS OR METHOD FOR THE MANUFACTURE OF SO-CALLED CUP-RINGS FOR ANTI-FRICTION-BEARINGS. JOHN W. SCHATZ, Poughkeepsie, N. Y., assignor of one-third to Herman A. Schatz and one-third to Grover H. Schatz, Poughkeepsie, N. Y. Filed June 21, 1919. Serial No. 305,796. 4 Claims. (Cl. 29—156.)



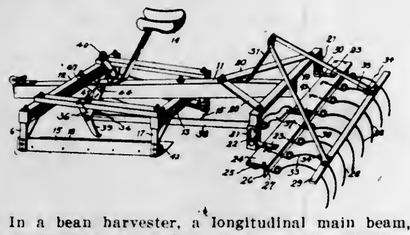
1. The described method of making cup rings of differing size and strength from a sheet of metal of uniform thickness consisting in cutting a disk from the sheet, cutting from the peripheral part of the disk an unbroken straight-edged annulus of such width as will contain sufficient metal for the desired ring, subjecting the annulus to the action of appropriate forming dies to form a cup ring, and finishing the same.

1,339,673. TOILET ARTICLE. HUGO SCHNEIDER, New York, N. Y. Filed May 23, 1919. Serial No. 299,299. 4 Claims. (Cl. 45—98.)



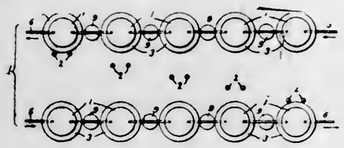
1. In a toilet article of the class described, a plurality of celluloid shells united at their edges to form a hollow body portion, and a filler therefor comprising a plastic composition sufficiently yieldable under normal conditions to substantially prevent cracking and breaking thereof.

1,339,674. BEAN-HARVESTING MACHINE. RYUMATSU SERA, Banning, Calif. Filed Nov. 27, 1917. Serial No. 204,145. 7 Claims. (Cl. 56—193.)



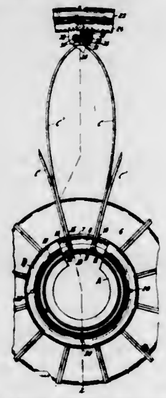
1. In a bean harvester, a longitudinal main beam, a yoke at the rear end of the main beam, said yoke having slotted ends, a rake-head, hangers fixed thereto and journaled in said slotted ends, links pivotally mounted at the opposite end of the main beam, an arm fixed to the rake-head, a rod connecting the links and arm, a tripping prong pivotally connected to the swinging ends of the links, an actuating lever adapted for movement by the foot, an arm movable synchronously with the actuating lever, and a link connecting the last-named arm and the tripping prong to place the tripping prong in operative engagement with the ground upon movement of the actuating lever.

1,339,675. PHOTOCHEMICAL APPARATUS. WALTER O. SNELLING, Allentown, Pa. Filed Mar. 1, 1917. Serial No. 151,793. 6 Claims. (Cl. 23—24.)



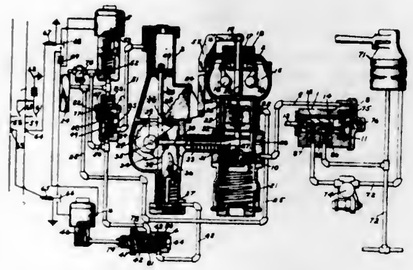
1. Photochemical apparatus comprising a series of transparent reaction vessels connected by fluid conduits, means for causing reactive fluids to progressively pass through the series of vessels, and a light source opposite to each of the said reactiong vessels, the said light sources being disposed at progressively decreasing distances from the said vessels in the direction of flow of the reactive material.

1,339,676. ORGANIZED-WHEEL STRUCTURE. JOHN E. STRIETELMEIER, Cincinnati, Ohio, assignor to The Ideal Wheel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 27, 1913. Serial No. 797,430. 3 Claims. (Cl. 152—50.)



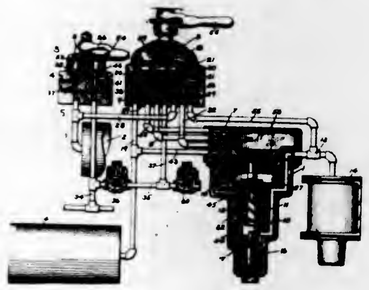
3. A resilient wheel of the nature disclosed combining a hub-member, having a portion 9 providing a series of radial slots, separable spacing means circumscribing both said slotted portion and said hub-member and providing slots registering with those aforesaid, a series of sheet-metal spoke-elements arranged back-to-back in pairs in said slots and adapted to key said parts against rotation, and means carried by said hub-member for retaining said spring-elements against radial movement.

1,339,677. AUTOMATIC SPEED-CONTROL EQUIPMENT. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 27, 1917. Serial No. 145,001. 9 Claims. (Cl. 246—182.)



1. In a vehicle speed control equipment, the combination with a speed controlled device for controlling the vehicle, of a mechanism for adjusting said device to act at a reduced speed and means for limiting the action of said mechanism.

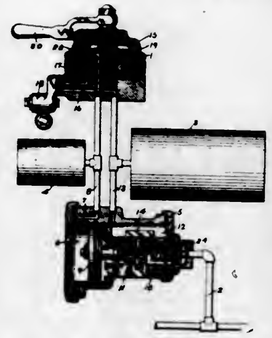
1,339,678. COMBINED VACUUM AND COMPRESSED-AIR BRAKE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 22, 1918. Serial No. 250,937. 5 Claims. (Cl. 303—53.)



1. In a fluid pressure brake, the combination with a vacuum brake pipe adapted to be connected with a train vacuum brake system, of a valve device on the locomotive operated by variations in pressure in the vacuum brake pipe for controlling the brakes on the locomotive, an automatic brake valve for varying the pressure in the vacuum brake pipe, and an independent brake valve for varying the pressure on said valve device.

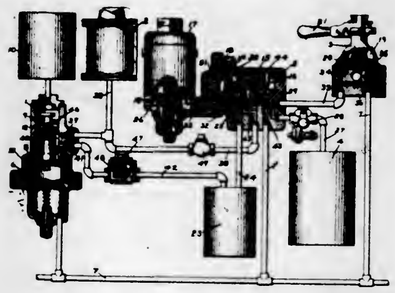
1,339,679. FLUID-PRESSURE BRAKE DEVICE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 22, 1918. Serial No. 250,938. 5 Claims. (Cl. 188—1.)

1. In a fluid pressure brake, the combination with a brake pipe, an equalizing valve device, a feed valve device, and a brake valve having a position for supplying fluid from the feed valve device to the equalizing reservoir, of a valve device subject to the opposing pressures of the



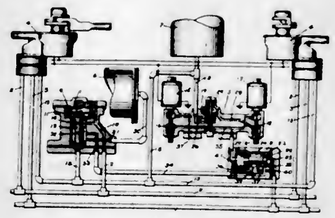
brake pipe and the equalizing reservoir for supplying fluid to the brake pipe, said valve device being the sole source of fluid pressure supply for the brake pipe.

1,339,680. REMOTE CONTROL BRAKE EQUIPMENT. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1918. Serial No. 256,158. 6 Claims. (Cl. 303—18.)



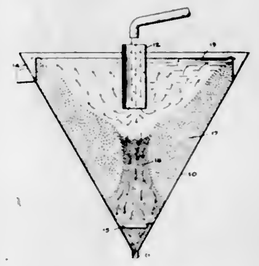
1. In a fluid pressure brake, the combination with a brake pipe for controlling the brakes on the train and a brake equipment for controlling the brakes on the locomotive, of means controlled from a remote point for varying the brake pipe pressure to apply the brakes on the locomotive and train and for holding the brakes applied on the locomotive while releasing the brakes on the train.

1,339,681. ELECTROPNEUMATIC BRAKE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 26, 1918. Serial No. 259,774. 2 Claims. (Cl. 303—15.)



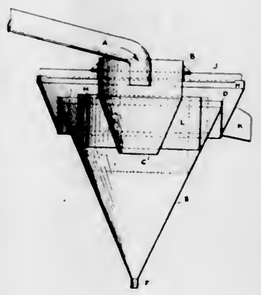
1. In a fluid pressure brake, the combination with a brake cylinder, brake pipe, straight air pipe, and an emergency valve device operated upon a reduction in brake pipe pressure for supplying fluid to the brake cylinder, of electrically controlled means for supplying fluid to the brake cylinder, and a check valve device for controlling communication from the brake cylinder to the exhaust, from said electrically controlled means to the brake cylinder, and from the straight air pipe to the brake cylinder.

1,339,682. SETTLING-BASIN SEPARATING DEVICE. CHARLES ALLEN, El Paso, Tex. Filed July 3, 1917. Serial No. 178,349. 5 Claims. (Cl. 83—82.)



1. The method of preventing irregularity in the discharge of solid particles through the outlet orifice of a dewatering settler adapted to accumulate a substantial bulk of settled material which consists in filling the space centrally above the orifice and below the level of the settled material in a manner to leave an attenuated passage for the settling solids extending from and above the discharge orifice for an appreciable distance.

1,339,683. UPWARD-CURRENT SEPARATING PROCESS AND DEVICE. CHARLES ALLEN, El Paso, Tex. Filed July 3, 1917. Serial No. 178,350. 11 Claims. (Cl. 83—82.)

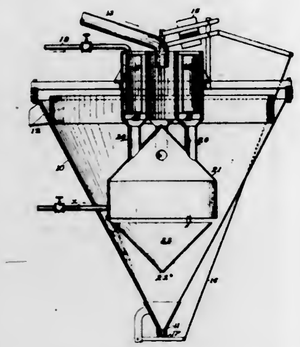


5. A method of varying the upward movement of a liquid carrying solid particles overflowing the top of the tank in a settling device by varying the length of the overflow periphery, whereby the velocity of the overflow of the liquid over the overflow lip is controlled.

1,339,684. SLIME-PULP THICKENER. CHARLES ALLEN, El Paso, Tex. Original application filed June 9, 1917, Serial No. 173,785. Divided and this application filed Oct. 5, 1918. Serial No. 256,968. 5 Claims. (Cl. 210—54.)

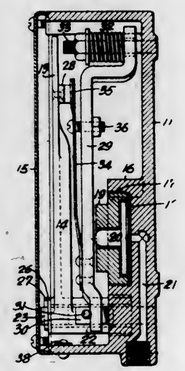
1. In a thickener for slime pulp, a settling tank having a controllable orifice for the discharge of thickened material, a fluid column in hydrostatic balance with the thickening material and adapted to contain fluid of fixed density whereby variations in the density of the thickening

material will cause a change in the elevation of the fluid in said column, means actuated by the rise and fall of the height of the fluid in said column to control the sizes of



the discharge orifice and a cone-shaped baffle member at the bottom of the fluid chamber overlying the discharge orifice for the purpose mentioned.

1,339,685. SIGNAL. DAVID E. BLAIR and DONALD K. MACLEOD, Montreal, Quebec, Canada. Filed June 13, 1919. Serial No. 303,928. 9 Claims. (Cl. 116—55.)



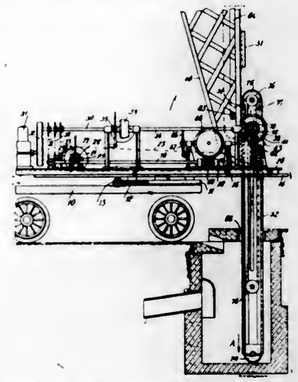
5. In a device of the class described, a signal, a latch holding said signal, a latch carrier, an air pressure operated diaphragm, a plunger in compression between said diaphragm and latch carrier arranged to maintain the latch in signal engaging position and a spring arranged to urge the carrier and latch out of signal engaging position.

1,339,686. MANUFACTURE OF CATALYSTS. JAMES BOYCE, Chicago, Ill., assignor to The American Cotton Oil Company, Guttenberg, N. J., a Corporation of New Jersey. Filed June 2, 1913. Serial No. 771,325. 14 Claims. (Cl. 23—28.)

1. The method of forming a coating of catalytic material on an inert carrier therefor which comprises pulverizing to a granular mass the substance which is to serve as the inert carrier, mixing with the said mass an adherent material capable of conversion to a catalytic condition to coat the individual grains with said adherent material and then converting the coating thus formed to a catalytic condition; substantially as described.

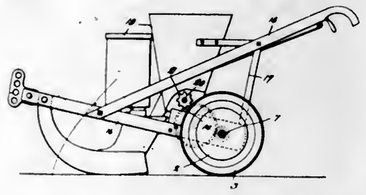
13. A catalyst, comprising catalytically active nickel black.

1,339,687. PORTABLE EXCAVATOR. ALFRED A. BRIGGS, New York, N. Y. Filed July 5, 1919. Serial No. 308,738. 16 Claims. (Cl. 37—24.)



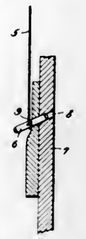
3. A portable excavator comprising a frame pivotally supported upon a substantially horizontal axis, a casing slidably supported on the frame extending in opposite directions beyond said axis, a conveyer within said casing having a driven shaft, a driving shaft in alinement with said axis and an intermediate element connecting said shafts in all positions of the conveyer casing.

1,339,688. PLANTER. ELISHA W. COLE, Charlotte, N. C. Filed July 16, 1919. Serial No. 311,324. 6 Claims. (Cl. 180—70.)



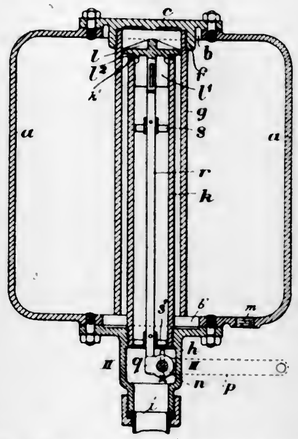
1. In a planter spaced wheel members having inwardly extending peripheral flanges, a gear clamped between said members, a connecting plate supported between the members and extending between the flanges, a gear journaled on said plate and meshing with the clamped gear, said gear upon the plate extending between the flanges and being of a thickness at its periphery slightly less than the width of the space between the flanges.

1,339,689. HITCH-PIN FOR PIANOS AND OTHER STRING INSTRUMENTS. FRANK J. COLMUS, Baltimore, Md. Filed Jan. 17, 1920. Serial No. 352,080. 1 Claim. (Cl. 84—144.)



The combination with a pin plank having holes; of hitch pins adapted to seat in said holes, said pins having both of their ends rounded and alike, and having abutments intermediate their ends to limit the extent of insertion into the holes.

1,339,690. WATER-WASTE PREVENTER. LAURENCE DAVIES, New Malden, England. Filed May 29, 1919. Serial No. 300,635. 10 Claims. (Cl. 4—5.)



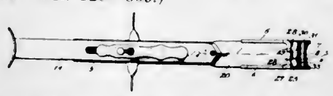
1. A water waste preventer comprising a tank, concentric tubular parts at the discharge orifice of said tank, a discharging pipe, a discharge valve normally closing communication between the central space inclosed by the inner tube and the annular space inclosed between the two tubes there being communication between the interior of the tank and one of said spaces and between the discharge pipe and the other of said spaces, said valve being maintained on its seat by fluid pressure and, when lifted, being held off its seat by the force of the discharge, and means controlling the rising of said valve from its seat substantially as set forth.

1,339,691. ADENOTOME. SIDNEY DIAMANT, New York, N. Y. Filed Apr. 1, 1919. Serial No. 286,726. 8 Claims. (Cl. 128—309.)



1. In an instrument of the character described, a rigid body bar having a curved head terminating in an adenoid cutting blade bearing a fixed relation to the head, the cutting edge of said blade facing away from the body of the instrument, and a second cutting blade slidably mounted upon said body bar and having a cutting edge opposed to the cutting edge of said fixed blade.

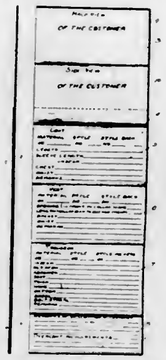
1,339,692. ADENOTOME. SIDNEY DIAMANT, New York, N. Y. Filed Oct. 17, 1919. Serial No. 331,316. 7 Claims. (Cl. 128—309.)



1. In an instrument of the character described, a body bar having a curved head provided with a cutting edge, a blade slidably mounted upon said body bar and having a cutting edge opposed to the cutting edge on said head, and a guard member mounted upon said body bar and yieldingly movable with relation thereto by the pressure of the severed tissue against said member.

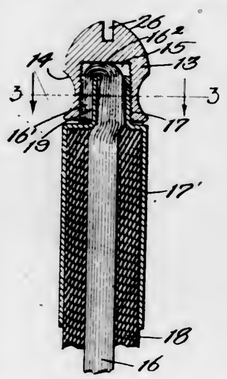
1,339,693. TAILOR'S ORDER-BLANK. HENRY CARLTON DIXON, Tulsa, Okla. Filed June 13, 1919. Serial No. 303,836. 2 Claims. (Cl. 283—1.)

1. An order blank of the character specified comprising an original and a duplicate, the original extending beyond the duplicate at its upper end and having a transverse line of partial separation below the upper end of the duplicate, the duplicate being attached just above the transverse line of partial separation, that portion of the original below the line and the duplicate having corresponding data printed thereon, indicating the measure-



ments of the customer, that portion of the original below the line being adapted to be separated from the remainder after it has been filed to furnish a record, while the remaining portion is forwarded for the filling of the order.

1,339,694. ELECTRICAL CONDUCTOR. HARRY A. DOUGLAS, Bronson, Mich. Filed Feb. 4, 1918. Serial No. 215,331. 2 Claims. (Cl. 173—269.)

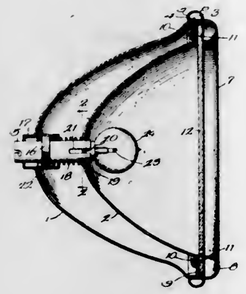


1. An electrical conductor including two elements, one in the form of an exteriorly threaded sleeve and the other in the form of a nut upon the threaded sleeve, this nut having a wire engaging end wall; and wire passing through the bore of the sleeve and having an end portion returned upon the exterior of the sleeve to form a bight in the wire at one end of the sleeve, there being an external recess upon a lateral portion of the sleeve and in the zone of the threads on the sleeve and in the zone of the threaded portion of the nut that engages the threads upon the sleeve, said recess receiving said end portion of the wire, said bight being engaged by the aforesaid end wall of the nut to maintain the bight in the wire in firm engagement with said sleeve and nut.

1,339,695. REFLECTING-LAMP. HARRY A. DOUGLAS, Bronson, Mich., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich., a Corporation of Michigan. Original application filed Dec. 5, 1916. Serial No. 135,117. Divided and this application filed Nov. 14, 1918. Serial No. 262,488. 2 Claims. (Cl. 240—41.)

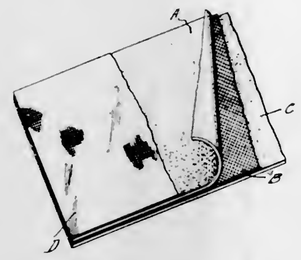
1. A lamp structure including a concave casing; a concave reflector shell within the casing and movable

backwardly and forwardly with respect thereto; a spring interposed between the rear ends of the casing and reflector shell for pressing the reflector shell forwardly; a light transmitting cover in front of and overlying the reflector shell; and a retaining ring carried by the casing



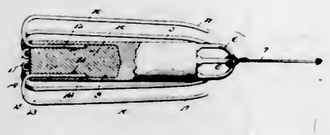
and engaging the front face of the light transmitting cover, said retaining ring being S-shaped in cross section and having the rear part thereof forming a hollow head, said retaining ring and casing having bayonet catch and slot engagement at and concealed by said head.

1,339,696. PROCESS OF PRODUCING TIRE-PATCH MATERIAL. CLARENCE O. DUFFY, Dallas, Tex. Filed May 6, 1919. Serial No. 295,198. 1 Claim. (Cl. 154—2.)



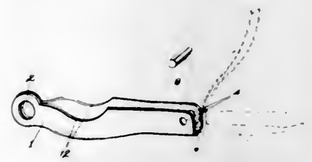
The herein-described process of producing a tire patch material, which consists in applying a layer of raw rubber to one side of a fabric impregnated with vulcanized rubber, subjecting such layer of raw rubber to the action of heat to completely vulcanize the same, subsequently applying a rubber compound containing raw rubber and an adhesive to the opposite side of the fabric, and then subjecting such rubber compound to the action of heat for a period short of the time necessary to completely vulcanize the raw rubber whereby the raw rubber in the compound is in a partly cured state.

1,339,697. FISHING-TACKLE. HENRY ENGLAND, Chicago, Ill. Filed Nov. 11, 1919. Serial No. 337,336. 4 Claims. (Cl. 43—52.)



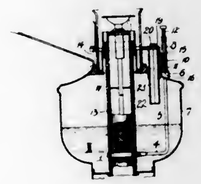
1. A device of the class described including a body, a plurality of arms extending along the sides of the body and having one end portion curved and extended into the body, and a plurality of fastening members secured within the body and having their outer portions hooked and engaged with the curved portions of said arms for securing the arms in position.

1,339,698. COMBINATION-TOOL. JOHN FAIX and SAMUEL FAIX, San Francisco, Calif. Filed May 15, 1919. Serial No. 297,365. 1 Claim. (Cl. 7—11.)



A device of the class described comprising a casing formed of a single sheet of metal bent to provide a frame having integral side and back walls and open along one edge, the side walls thereof adjacent one end being formed with alined pivot-pin-receiving openings and the back wall adjacent said end terminating flush with the ends of the side walls, a pivot pin extending through said openings and fulcrumed at its opposite ends in said respective openings, a portion of said pin being polygonal in cross-section, a pair of independent tweezer members capable of reception in said case, said tweezer members being provided adjacent one end with alined polygonal openings for receiving the polygonal portion of said pivot pin and being united together thereby to pivot as a unit with said pin, and a blade receivable within said casing between said tweezer-forming members and fulcrumed at one end one said pivot pin to swing independently thereof, the back of said blade, adjacent said fulcrum, adapted to contact with said back wall and be limited thereby when said blade is in its full open position.

1,339,699. HOUSEHOLD-LAMP. HENRI GALOPIN, Melbourne, Victoria, Australia. Filed Sept. 4, 1919. Serial No. 321,683. 10 Claims. (Cl. 67—59.)

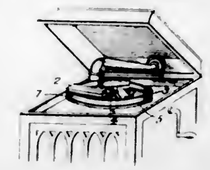


1. In lamp-wick control mechanism, an oil reservoir, a wick tube therein, a wick around said tube, a spring jaw to embrace said wick, an approximately horizontal arm extending from said jaw, a vertical stem affixed to said arm, a bearing sleeve screwed into the top of said reservoir to receive the upper end of said stem and formed with a vertical slot and a laterally projecting finger grip on said stem protruding through said slot for raising and lowering said jaw and partially rotating same.

1,339,700. APPARATUS FOR CLEANING PHONOGRAPH-RECORDS. ELEANOR V. GEORGE, New York, N. Y. Filed Jan. 21, 1919. Serial No. 272,250. 3 Claims. (Cl. 15—37.)

1. Apparatus for cleaning phonograph records consisting of a vessel, having a hub integral therewith having a

hole therethrough tapering inwardly toward the center of said hub from both ends, said vessel being provided



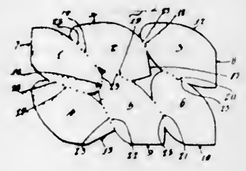
with a frictional bottom, a cleaning element disposed therein and carried thereby.

1,339,701. SILO-BRACE. BENJAMIN GIBSON and ALSTYN FULLER, Hill City, Kans. Filed Mar. 27, 1919. Serial No. 285,532. 4 Claims. (Cl. 217—95.)



1. A silo brace disposed on the inside of a silo and comprising a series of segmental sections, the ends of said sections being enlarged thereby increasing the central flexibility of the sections, and means disposed between the ends of the sections whereby the segments may be centrally bent and forced outwardly into close engagement with the inner wall of the silo.

1,339,702. PATTERN FOR CUTTING HALF-SOLES. WILLIAM W. GILBERT, Santa Ana, Calif. Filed Mar. 17, 1919. Serial No. 283,045. 1 Claim. (Cl. 33—6.)



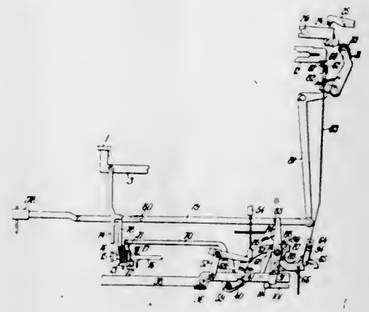
A pattern for cutting half-soles, comprising half-sole shapes arranged in the general form of a rectangle, the shapes at obliquely opposite corners of the pattern having their rear ends turned outwardly and their toes turned inwardly, two other of said shapes having one of their side edges at one of the longitudinal edges of the pattern, one of said last named shapes being at one corner of the pattern and having its rear end at one of the end edges of the pattern, a fifth one of said shapes having its toe turned inwardly and having its rear end at the other longitudinal edge of the pattern, a sixth one of said shapes occupying the remaining corner of the pattern and having its toe and rear end adjacent two edges respectively of the pattern, and said shapes having their longitudinal axes extending obliquely to the longitudinal axis of the pattern.

1,339,703. SUPPORT FOR PICTURES, PLAQUES, AND SIMILAR ARTICLES. HARRY E. GREEN, St. John, New Brunswick, Canada. Filed Jan. 10, 1919. Serial No. 270,526. 7 Claims. (Cl. 40—145.1.)



1. In a support as specified, the combination of an attaching section, an artistic section, means slidably connecting said artistic section to said attaching section, said attaching section provided with a groove in its upper face adapted to receive a wire, said artistic section adapted to rest upon the upper surface of the attaching section and prevent accidental movement of the picture wire out of said groove.

1,339,704. COMBINED TYPEWRITING AND COMPUTING MACHINE. FREDERICK A. HART, Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed May 18, 1917. Serial No. 169,402. 24 Claims. (Cl. 235—60.)



5. The combination with computing mechanism, of means, including numeral keys for operating said computing mechanism, means for indicating that a subtracting operation of said computing mechanism should take place, and key-actuated disconnecting means for preventing the operation of said last-mentioned means.

13. The combination with computing mechanism, of means, including numerals keys, for operating said computing mechanism, locking mechanism for said numeral keys, operating connections through which said locking mechanism is controlled, means acting through said operating connections to throw said locking mechanism into action, and means for controlling said operating connections to render said locking mechanism ineffective while said first-mentioned means is still in action.

1,339,705. KILN. KIRK HIMROD, Ironton, Minn., assignor, by direct and mesne assignments, to Paul W. McKay, trustee, Waterford, Pa. Filed Aug. 30, 1916. Serial No. 117,584. 8 Claims. (Cl. 34—19.)

8. The combination with a kiln having inlet openings, a flue communicating with said openings, of a burner com-

munication with the flue and in close proximity to the kiln; a conduit communicating with the flue between the burner and the kiln whereby a fluid may be delivered to the flue, means for generating steam, means for super-

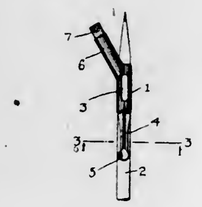


heating the steam, and means for mixing the superheated steam and fluid delivered by the conduit with the products of combustion of the burner and directing the combined steam, fluid and products of combustion to the kiln.

1,339,706. PROCESS OF MAKING SODIUM CYANID. ALFONSE KAUFMAN, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company, Incorporated, a Corporation of New York. Filed May 2, 1917. Serial No. 165,858. 4 Claims. (Cl. 23—13.)

1. The process of preparing an alkali metal compound for chemical reaction under heat with carbon and nitrogen, which consists in intimately mixing the compound in a finely divided state with a carbon mass, including a relatively low proportion of carbonized material having the high porosity and absorptive capacity characteristics of charcoal sufficient to prevent such fusing of the reaction product under the heat employed as would tend to solidify the mass on cooling.

1,339,707. ERASER-HOLDING CLIP FOR PENCILS. PLATON LAZARIDES, New York, N. Y. Filed Apr. 18, 1919. Serial No. 291,046. 1 Claim. (Cl. 120—84.)

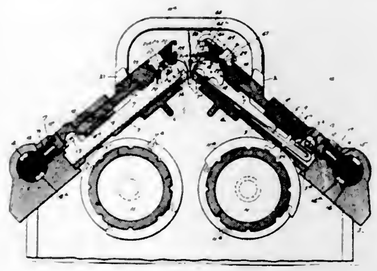


The combination with a pencil, of a semi-cylindrical clip adjustably mounted thereon, said clip formed of a single piece of spring metal, the outer extremity of said clip being bent laterally and forwardly to form a semi-cylindrical offset which terminates adjacent the pencil point, and an eraser carried by said offset.

1,339,708. KNITTING-MACHINE. ELIHU LIPPITT, Cleveland, Ohio, assignor, by direct and mesne assignments, of one-third to Henry J. Huntington and one-third to Stephen W. Lippitt. Filed July 12, 1917. Serial No. 180,042. 19 Claims. (Cl. 66—28.)

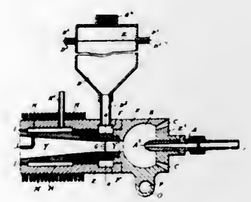
1. In a knitting machine, the combination of a needle bed, needle jacks mounted thereon and movable to and from the plane of the bed, a jack operating member directly engaging the jack and operable to move it away from the bed, a spring acting directly on the jack and operating to hold it in yielding engagement with the jack operating member, a needle carried by the jack and movable with it, and movable also relatively to it to form the stitches, and means for moving the needle relatively to the jack.

4. In a knitting machine, the combination of a series of needles, means for operating the same, a presser device and an associated sinker device for each needle, and opera-



tive connections between said two devices to cause them to act in alternation, said operative connections being independent of each other.

1,339,709. LIQUID-HYDROCARBON BURNER OF THE INJECTION TYPE. AUGUSTUS ALBERT MOHN, London, England. Filed Dec. 4, 1919. Serial No. 342,461. 3 Claims. (Cl. 158—74.)

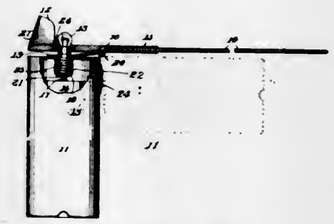


2. A hydrocarbon burner of the injector type comprising a barrel having a central passage, an enlarged mixing chamber at the rear end of said barrel into which said central passage opens, a jet pipe projecting into said mixing chamber and having a nozzle spaced from and opposite said central passage, the rear end of said mixing chamber having converging air inlets which direct the air toward the space between said central passage and said nozzle, an annular chamber surrounding said barrel in front of said mixing chamber, said barrel having lateral passages connecting said annular chamber and said central passage, an annular air chamber surrounding said barrel in front of said annular hydrocarbon chamber and provided with delivery orifices at the front of the burner surrounding the main orifice of said central passage and with a bent delivery tube adapted to deliver air centrally of said central orifice, and means for supplying compressed air to said air chamber.

1,339,710. PROCESS FOR TINNING ALUMINUM. ADOLPHUS L. PAGE, Rochester, N. Y., assignor of two-fifths to Samuel Rubin, Baltimore, Md. Filed Sept. 30, 1919. Serial No. 327,417. 1 Claim. (Cl. 91—70.2.)

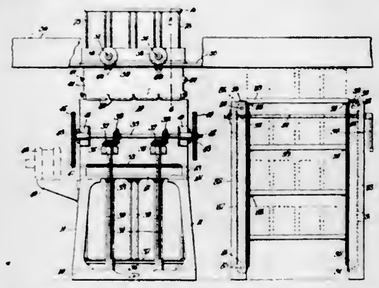
The process of tinning aluminum by first immersing the aluminum to be tinned in molten stearic acid, and while immersed rub until thoroughly clean, then subjecting the aluminum to a non-carbonating flame until a higher series of acid is produced forming a coating on the aluminum, and subsequently immersing the aluminum in a bath of pure tin, zinc, aluminum and phosphate tin, substantially as herein described.

1,339,711. TONGUE-DEPRESSOR. JAY M. PARK, Chaffee, N. Y., assignor of one-half to Roy B. Charles, Chaffee, N. Y. Filed Mar. 14, 1918. Serial No. 222,302. 9 Claims. (Cl. 128—16.)



6. An article of manufacture comprising a plate, a hood-shaped reflector at one end of the plate, a tongue depressing blade detachably mounted upon the opposite end of the plate and lamp attaching means hinged to the plate.

1,339,712. MOLDING APPARATUS. ALBERT A. PAULY, Cleveland, Ohio. Filed Mar. 27, 1915, Serial No. 17,457. Renewed Jan. 31, 1918. Serial No. 214,786. 13 Claims. (Cl. 25—1.)



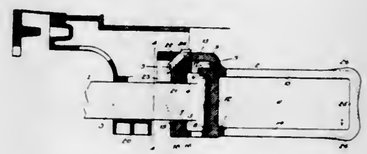
1. In apparatus of the class described, the combination of a mold, a transporting member adapted to receive the article as it is ejected from said mold, means carried by said member adapted to be moved under the article and support it, and means for receiving the article from said member when the first mentioned means is withdrawn from under the article.

1,339,713. CUFF-BUTTON. OVID PULLEN, Harmony, N. C. Filed June 6, 1916, Serial No. 101,935. Renewed July 8, 1919. Serial No. 309,530. 1 Claim. (Cl. 24—102.)



A cuff button comprising a pair of heads, a U-shaped neck having longitudinally curved resilient arms connecting the heads, a shank secured at one end to the inner side of one of the heads, a tongue extending from the other end of the shank in a direction away from said arms, and a keeper bar carried by the opposite head and immovable with relation thereto, the curvature of said arms forming binding shoulders for engaging the cuff to hold the edges thereof close together, when the arms are flexed to engage said keeper bar with said tongue, said arms exerting an outward pressure on the heads to maintain said keeper bar in engagement with said tongue, and each head and arm forming an integral structure.

1,339,714. DRAFT-RIGGING FOR RAILWAY-CARS. WILLIAM J. REGAN, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1919. Serial No. 320,453. 9 Claims. (Cl. 213—42.)



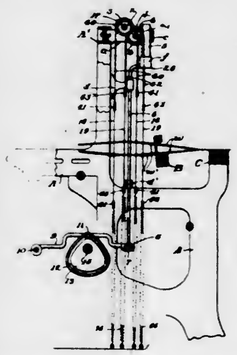
1. In a draft rigging, the combination of a coupler and draft yoke, said members being provided with means for detachably connecting them to each other, and said means involving vertically spaced inseparable faces on said yoke adapted to engage said coupler and between which said coupler is interposed and separable shoulders carried by said yoke and adapted to prevent forward longitudinal movement of said coupler with respect to said yoke, one of said separable shoulders being stationary and the other movable into and out of position in front of a projection on the rear end of the coupler shank when the yoke and coupler are in assembled relation.

1,339,715. DROP-STITCH MECHANISM FOR KNITTING-MACHINES. FRANK W. ROBINSON, Reading, Pa., assignor to The Nolde & Horst Co., Reading, Pa., a Corporation of Pennsylvania. Filed Feb. 20, 1919. Serial No. 278,188. 6 Claims. (Cl. 66—24.)



6. In a knitting machine comprising an approximate half-circle of needles having long butts and an approximate half-circle some of which have short butts and others medium butts; a needle-operating mechanism comprising connected upper and lower run-ways for the needles the upper one of which has a dipped siding, and a tucking cam and switch cam jointly movable into junction points of said upper and lower run-ways respectively.

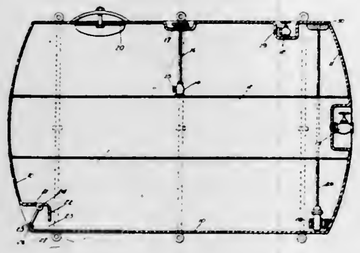
1,339,716. SHEDDING-MOTION FOR LOOMS. LITTEALLAH G. SABBAG, Boston, Mass., assignor of one-half to Maurice A. Metcalf, Boston, Mass. Filed Nov. 27, 1916. Serial No. 133,534. 5 Claims. (Cl. 139—79.)



1. A loom having shedding means comprising a plurality of shafts connected to a similar plurality of harnesses whereby oscillation of a shaft opens a shed in a respective part of the warp, gearing connecting said shafts, and

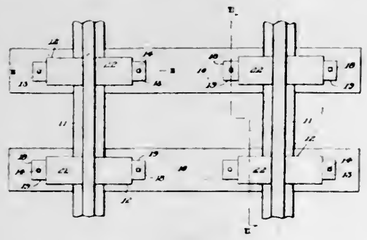
means for continuously imparting a to-and-fro motion to the gearing, in combination with means for clutching and unclutching a shaft from the gearing whereby to render its harness idle.

1,339,717. SALVAGING APPARATUS. CHARLES SANGER, Bay St. Louis, Miss. Filed Feb. 25, 1919. Serial No. 279,114. 4 Claims. (Cl. 114—53.)



4. A device of the character described comprising a tank, an inlet valve for said tank, an automatically operated outlet valve for said tank, a compressed air chamber within said tank having its ends closed by the end walls of said tank, a valve leading through one of the end walls of the tank to the interior of the compressed air chamber, a valve for establishing communication between the interior of the compressed air chamber and the interior of the tank, and means for operating said valves, said valve-operating means extending into recesses formed about the outer portion of said tank in the walls thereof.

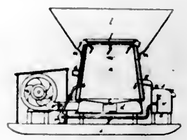
1,339,718. RAIL-FASTENER. WALTER SANOWSKI, Carnegie, Pa. Filed Oct. 6, 1919. Serial No. 328,650. 2 Claims. (Cl. 238—331.)



2. A rail tie and fastener comprising a tie having crossed recesses in the upper face thereof, the side walls of one recess being undercut, rail engaging clamps having dovetail shaped projections carried by the lower face thereof slidably received in said last named recess, rectangular blocks received in the outer ends of the last named recess in engaging position with said rail engaging clamps and means for retaining the blocks in position.

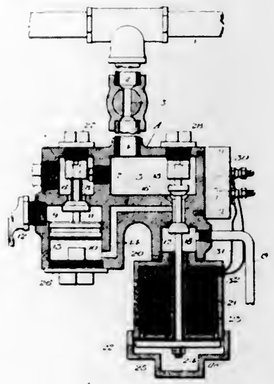
1,339,719. APPARATUS FOR MELTING SNOW AND THE LIKE. SIGURD SAVONIUS, Helsingfors, Finland. Filed Jan. 19, 1918. Serial No. 212,734. 4 Claims. (Cl. 126—343.5.)

1. A snow melting apparatus comprising, in combination, a water-jacketed hearth provided at its bottom with a grate; a snow receptacle mounted upon the upper portion thereof and having discharge openings for the water; a lid mounted on the top of said hearth and spaced thereabove to provide an exit into said receptacle for the heated air and products of combustion; a water tank; a waterway mounted beneath the discharge openings in said receptacle and having its spout overhanging said tank; a supply pipe leading from said tank to the water jacket



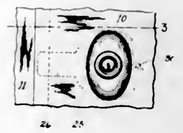
of the hearth; a pump connected in said pipe; a fan; and an air pipe leading from said fan into said hearth at a point beneath said grate.

1,339,720. BRAKE-PIPE VALVE. ARCHIBALD G. SHAVER, Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y., a Corporation of New York. Filed Apr. 25, 1919. Serial No. 292,547. 3 Claims. (Cl. 303—15.)



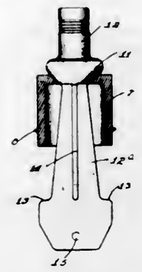
1. A brake pipe valve, including a main member having three communicating chambers, the outlet between the second and third chambers being a valve port, said third chamber being provided with an exhaust port, an electrically controlled means for by-passing the air from the first chamber to the lower end of the third chamber, a valve for controlling the valve port, and a plunger connected to the valve and mounted in the third chamber for actuating the valve.

1,339,721. LOCK. JOHN H. SHAW, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 14, 1918. Serial No. 211,802. 18 Claims. (Cl. 70—91.)



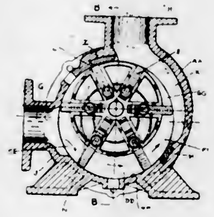
1. A door knob having a one piece knob shell and operating spindle, a fixed bearing sleeve in which said spindle is rotatably mounted, and a cylinder lock for locking said knob against rotation housed within said knob shell and rigidly secured to said bearing sleeve.

1,339,722. BLANK AND METHOD FOR MANUFACTURE OF BAILER-BOTTOMS. JAMES W. SLOAN, Tulsa, Okla. Filed Sept. 20, 1917. Serial No. 192,349. 3 Claims. (Cl. 29—148.)



1. A blank for constructing a device of the class described comprising a cylindrical shell closed at one end, a boss projecting centrally from the outer face of said end and a stem projecting centrally from the inner face of said end narrow at the base and broadening toward its end.

1,339,723. ROTARY PUMP. JOSEPH HUNTER SMITH, Oakland, Calif., assignor to Walter J. Platt, Oakland, Calif. Filed Oct. 12, 1916. Serial No. 125,302. 1 Claim. (Cl. 103—44.)



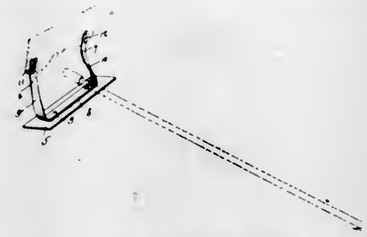
A rotary pump such as described consisting of a casing substantially cylindrical in cross section having an inlet and outlet port therein; plates inclosing the sides of said casing; an annular groove formed in the inner face of each of said side plates concentric with the center of said casing; revoluble rings mounted in the grooves on the side walls thereof; a shaft revolubly mounted in said side plates eccentrically with the center of the casing; a rotor fixedly secured to said shaft within said casing and between said side plates; a plurality of slots formed within said rotor; a plurality of vanes slidably mounted in said slots in the rotor; projections on the ends of said vanes extending outwardly beyond the rotor; anti-friction rollers on said projections, said projections engaging the grooves formed in the side plates and controlling the outward movement of said vanes to approximately sealing contact with the inner periphery of the casing.

1,339,724. WATERPROOFING COMPOSITION AND PROCESS OF MAKING AND USING SAME. STEPHEN P. SOLLAWAY, Wilmington, Del. Filed April 10, 1919. Serial No. 289,076. 9 Claims. (Cl. 134—51.)

1. A waterproofing composition comprising a waterproofing material, and muriatic and carbolic acids incorporated therewith.

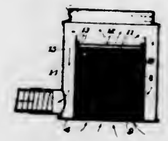
1,339,725. TOOL-HOLDING IMPLEMENT. JOSIAH W. STOKE, Penlel, Tex. Filed Sept. 2, 1919. Serial No. 321,088. 1 Claim. (Cl. 76—82.)

In a tool holding device, a base, a plate secured to the said base, posts constituting extensions of the said plate, said posts being twisted and having their sides at their upper ends extending diagonally to the width of the base, the said posts having their upper ends slotted to form



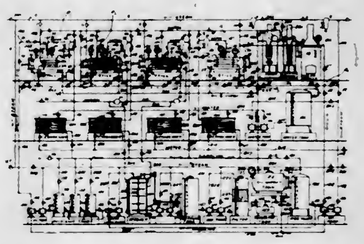
seats for the back of a hoe, said posts being bent or curved at such an angle as to grip firmly the hoe in said slots.

1,339,726. AIR-FILTER FOR AUTOMATIC ENGINES. JOHN F. SWARENS, Kansas City, Mo. Filed May 22, 1919. Serial No. 298,869. 2 Claims. (Cl. 183—45.)



2. An air filter for automobile engines comprising a casing having at its lower end an inlet opening for the air facing downwardly direct to the atmosphere, packing in said casing composed of strands of dry hair adapted to vibrate to dislodge collected dust particles, said packing being immediately above the said inlet opening, and an outlet for the filtered air of smaller diameter than the inlet, substantially as described.

1,339,727. MANUFACTURE OF GASOLENE. JOSEPH WILSON TROTTER, Birmingham, Ala. Filed Nov. 14, 1918. Serial No. 262,563. 10 Claims. (Cl. 196—26.)

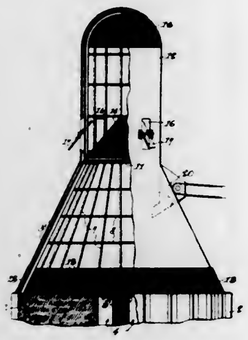


1. The herein described process for converting a partially refined light hydro-carbon oil into gasolene, which consists in spraying the oil through a submerged catalytic spray into a bath of oil under a pressure of not less than 75 pounds and in the presence of "cracking" heat and superheated steam.

1,339,728. PRODUCTION OF CELLULOSE-ACETATE SOLUTIONS. THOMAS TYRER, deceased, by Percy Holland Chambers and George Thomas Feasey, executors, London, England. Filed Mar. 28, 1919. Serial No. 285,908. 2 Claims. (Cl. 134—79.)

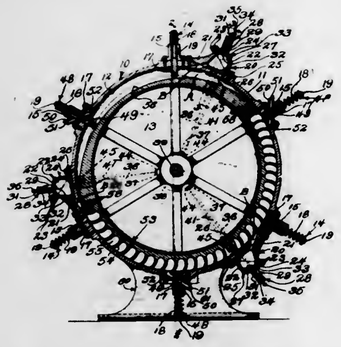
2. In the production of cellulose acetate solutions for aeroplane and other purposes, the admixture of a quantity of cyclohexanone less than 2% of the amount of cellulose acetate used.

1,339,729. WOOD-REFUSE BURNER. JOSEPH P. WALSH, Vancouver, British Columbia, Canada. Filed Aug. 13, 1919. Serial No. 317,292. 4 Claims. (Cl. 110—18.)



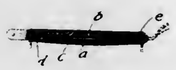
1. A wood refuse burner, comprising the combination with a circular hearth to which the refuse to be burned is delivered, of a frusto-conical casing suitably supported thereabove, the lower edge of which casing is a short distance above the hearth, a smoke-stack extending upward from the smaller end of the casing, a screen across the smoke-stack adjacent its connection to the casing, and a screened hood across the top of the smoke-stack.

1,339,730. COMBUSTION-ENGINE OF THE ROTARY TYPE. GEORGE T. WILLIAMS, Oakland, Calif. Filed Feb. 17, 1919. Serial No. 277,448. 4 Claims. (Cl. 60—41.)



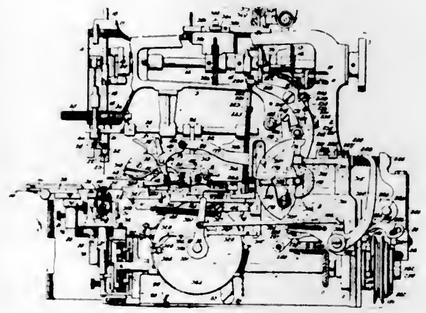
1. A combustion engine comprising a rotor, means for feeding fuel into said rotor, means embodied in said rotor for compressing gases therein, a series of members adapted to receive said compressed gases for ignition therein and means provided by said rotor for cooling the same by air and means for exhausting said air therefrom.

1,339,731. GOGGLES. FREDERICK WILLSON, Reading, Pa., assignor to T. A. Willson & Co., Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Nov. 14, 1919. Serial No. 337,985. 1 Claim. (Cl. 2—149.)



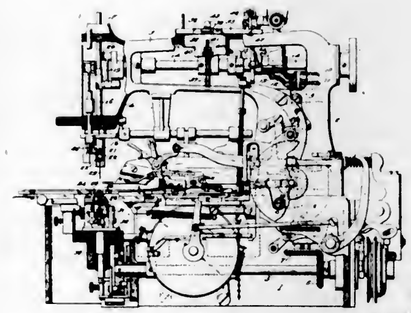
In goggles, a unitary eye glass structure comprising separable eye-protecting and guard disks one of which is of concavo-convex form and has a marginal portion of its concave face ground to provide an annular seating for the opposed disk, and a clamping ring encircling the annularly contacting disks.

1,339,732. BUTTONHOLE-SEWING MACHINE. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 23, 1916. Serial No. 121,733. 61 Claims. (Cl. 112—71.)



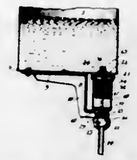
1. In a buttonhole sewing machine, in combination, stitch-forming instrumentalities, a work-holder, a sewing shaft and driving connections for actuating the stitch-forming instrumentalities and for relatively feeding the latter and the work-holder to sew around a buttonhole, and a removable feed-controlling element distinct from and coöperating with said driving connections for production of a buttonhole of a given contour and replaceable by a different controlling element adapted to coact with said driving connections for production of a buttonhole of different contour.

1,339,733. THREAD-CONTROLLING MECHANISM FOR SEWING-MACHINES. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Sept. 23, 1916, Serial No. 121,733. Divided and this application filed Aug. 10, 1918. Serial No. 249,250. 3 Claims. (Cl. 112—248.)



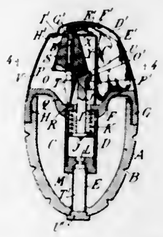
1. In a sewing machine, in combination, a reciprocating needle, loop-takers of different character coöperating alternately therewith in successive reciprocations for production of stitches, and a needle-thread take-up acting in different degree upon the thread respectively in successive stitch-forming cycles.

1,339,734. LIQUID-FEED DEVICE. ARLINGTON L. BALL, Dunkirk, N. Y., assignor, by mesne assignments, to Germer Stove Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1918. Serial No. 261,622. 6 Claims. (Cl. 137—68.)



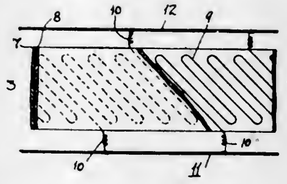
6. The combination with a liquid container having a support secured thereto provided with a transverse sight-opening and a guide-opening extending upwardly from said sight-opening, of a liquid feed-device comprising two parts, one of said parts being secured to said container and having an axial inlet opening and the other being adjustably connected to said first-mentioned part and having an axial boss movably fitting within said guide-opening, said other part having an outlet opening axially through said boss, a valve-rod arranged axially within said casing and adapted to have opposite ends thereof co-act with said inlet and outlet openings, and a float secured to said valve rod.

1,339,735. HAND-GRENADE. AXEL G. BERGMAN, New York, N. Y., assignor to Ordnance Engineering Corporation, New York, N. Y., a Corporation of New Jersey. Filed May 2, 1917. Serial No. 165,825. 24 Claims. (Cl. 102—29.)



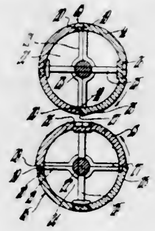
5. In a hand grenade or the like, the combination of a firing pin having a spring adapted to drive it lengthwise and a weighted sear mounted with its longitudinal axis substantially parallel with that of the pin and engaging the latter and having a pointed end on which it rests, said sear being tiltable on shock about one end to disengage the pin.

1,339,736. APPARATUS FOR VULCANIZING RUBBER AND METHOD OF MAKING SAME. WILBUR B. BURKE, Cleveland, Ohio, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 23, 1919. Serial No. 299,290. 14 Claims. (Cl. 18—6.)



1. A vulcanizing element comprising two coalescent layers of unvulcanized rubber, and an electric heating element interposed between said layers.

1,339,737. SNAPPING-ROLLS FOR CORN-HUSKING MACHINES. LEWIS A. BUTTERFIELD, Chicopee Falls, Mass., assignor to The Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 19, 1919. Serial No. 312,047. 5 Claims. (Cl. 130—5.)



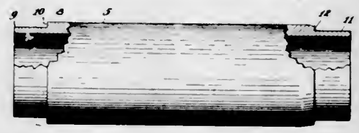
1. A snapping roll consisting of two semi-cylindrical sections with abutting ends, one of said sections having a radial projection forming a shoulder on one of its ends and one of said sections having a groove midway between its ends, said projection and groove each extending the entire working length of its section.

1,339,738. SANITARY COVER-PAD FOR MATTRESSES. JOHN WILLIAM CALLAHAN and MAUD B. CALLAHAN, El Paso, Tex. Filed Feb. 5, 1920. Serial No. 356,380. 3 Claims. (Cl. 5—13.)



1. A sanitary cover pad for mattresses, comprising a sheet of quilting with a pocket upon one face thereof, a sheet of waterproof material the edges of which engage said pocket, socket fasteners upon said pocket, and lugs carried by the waterproof sheet and adapted to engage said sockets to hold the sheet in place.

1,339,739. BOILER-TUBE END SECTION. CHARLES S. COLEMAN, Los Angeles, Calif., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif., a Corporation of Delaware. Filed Feb. 12, 1917. Serial No. 148,105. 4 Claims. (Cl. 285—197.)

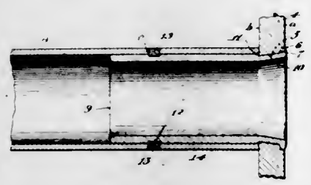


1. The combination of a boiler tube, and a tube end section comprising an integral cylindrical tube having an intermediate wall portion of a thickness greater than that of the boiler tube and having an end portion of reduced outside diameter said end portions being of equal diameter and wall thickness throughout and inserted in the end of the boiler tube and on which the tube is shrunk and welded.

1,339,740. SAFE END FLUE. CHARLES S. COLEMAN, Los Angeles, Calif., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif., a Corporation of Delaware. Filed Sept. 9, 1918. Serial No. 253,179. 2 Claims. (Cl. 285—54.)

1. A flue-end comprising the combination with a flue of a soft-metal tubular member inserted at one end into the

flue, a reinforcing hard-metal sleeve encircling said member and spaced from the end of the flue forming an annular channel, said member formed with a peripheral groove in



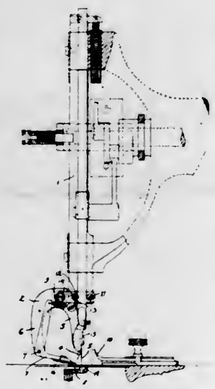
continuation of said channel, and a weld annulus disposed in said channel and groove joining the adjacent ends of the tube and sleeve.

1,339,741. INTAGLIO PRINTING-PLATE. JAMES ALBERT COREY, London, England. Filed Dec. 24, 1914. Serial No. 878,978. 1 Claim. (Cl. 109—150.)



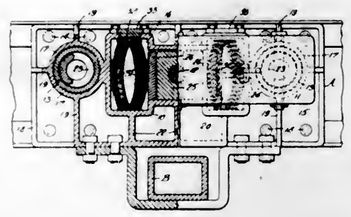
An article of manufacture comprising a dense, flat electrotype intaglio printing plate having a smooth back, said plate being thin and flexible whereby the same may be curved without distortion of the design.

1,339,742. HEMMING AND TRIMMING ATTACHMENT FOR SEWING-MACHINES. HERBERT CORRALL, Helensburgh, and JAMES HEGGIE, Clydebank, Scotland, assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed January 11, 1916. Serial No. 71,420. 19 Claims. (Cl. 112—122.)



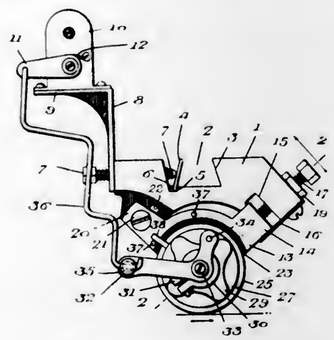
1. In a sewing machine having a throat-plate, a trimming attachment comprising a rectilinearly reciprocating knife having a downwardly directed cutting edge arranged substantially in parallelism with said throat-plate, and a coöperating spring actuated shearing blade adapted to reciprocate in a direction substantially parallel to the path of movement of said knife.

1,339,743. BUFFER FOR RAILWAY ROLLING-STOCK. DONALD C. DAVIS, Depew, N. Y., assignor to Gould Coupler Co., New York, N. Y. Filed Dec. 3, 1917. Serial No. 205,007. 3 Claims. (Cl. 213—39.)



1. A combined spring and friction buffing mechanism for railway rolling stock comprising a transversely elongated housing extending transversely of and projecting outwardly from the end of said rolling stock, a transversely extending buffer head having a central and side supporting stems entering said housing for supporting the buffer head therefrom, a friction mechanism comprising a wedge block arranged to be moved inwardly in said housing by said central stem, friction blocks which are moved laterally in said housing by said wedge block, and springs in said housing for resisting the lateral movement of said friction blocks, and coil springs which are arranged longitudinally in said housing at opposite sides of said friction mechanism and bear against fixed parts of the housing to resist the inward movement of said buffer head, a lost motion connection being provided between the buffer head and said wedge whereby the wedge is not moved until after a preliminary independent resistance by said coil springs.

1,339,744. ARTICLE-REGISTER. MOSES B. DISKIN, New York, N. Y. Filed Mar. 28, 1919. Serial No. 285,766. 3 Claims. (Cl. 235—98.)



2. An article register embodying a roller to be engaged by passing articles and continuously rotated during engagement with a passing article, an oscillatory member having a friction connection with said roller, so that said roller and member tend to turn with one another, a counter operated by the oscillations of said member, and means for returning said member from a position to which it is moved by the rotation of the roller by the article, when the roller is disengaged from the article.

1,339,745. COMBINATION-BRUSH. WILLIAM S. DUNAWAY, Carmel, Calif. Filed Feb. 24, 1919. Serial No. 278,907. 1 Claim. (Cl. 15—48.)

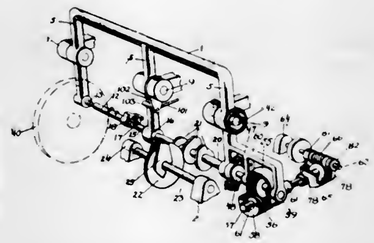
A brush of the class described comprising a head having a handle extending longitudinally from one end thereof in

alinement therewith, said head and handle being dished on their upper face to form a continuous reservoir of uniform depth throughout, bristles carried by the lower face of said head, valve controlled apertures leading from said



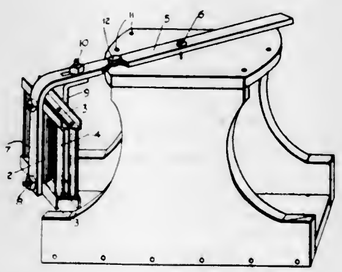
reservoir to said bristles, and a removable cover for said reservoir, said cover and the walls of said reservoir having interlocking elements to hold the cover in operative position.

1,339,746. CAM-GRINDING APPARATUS. HOWARD W. DUNBAR, ALBERT TURNER, and GEORGE H. SMITH, Worcester, Mass., assignors, by mesne assignments, to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 15, 1918. Serial No. 245,053. 26 Claims. (Cl. 51—4.)



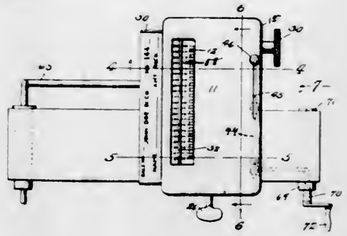
1. In a grinding machine, a grinding wheel, a rotatable work support mounted for swinging movement in the arc of a circle, a driving member rotatably mounted on fixed supports parallel with the axis of said work support and means for operatively transmitting a continuous rotative motion from the driving member to said support while said parts are swinging relative to each other and preventing detrimental retardation or acceleration of the rotation of the work.

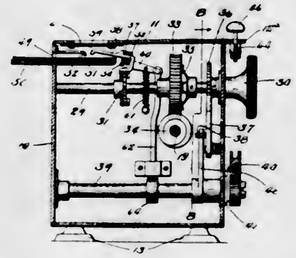
1,339,747. MITER-CUTTING DEVICE. JOSEPH DWYER, Hamilton, Ontario, Canada. Filed July 25, 1919. Serial No. 313,201. 4 Claims. (Cl. 143—89.)



1. A miter cutting device including a saw guide divided into two spaced parts each consisting of upper and lower frame members connected by vertically disposed freely rotatable rollers, means for supporting said guide for angular adjustment, and means for relatively adjusting the two parts of the guide.

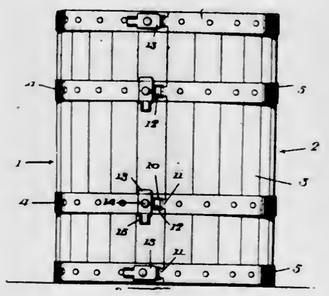
1,339,748. FABRIC-MEASURING AND COST-COMPUTING MACHINE. LEO EHRLICH, St. Louis, Mo., assignor of one-half to Arthur S. Partridge, St. Louis, Mo., and one-half to Albert Blair, St. Louis, Mo. Filed Nov. 12, 1918. Serial No. 262,131. 19 Claims. (Cl. 33—133.)





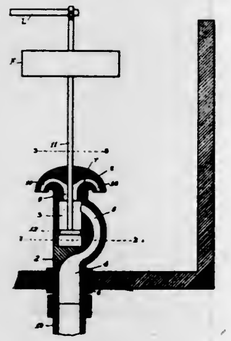
1. In a machine of the class described, a support for a sales slip, a member mounted to cause a part of it to move in a path substantially parallel with said support, means actuated by goods drawn through the machine for imparting movement to said member, a pointer carried by said member and adapted to travel in a path above the sales slip located on said support and adapted when tilted to puncture said sales slip, means for cutting the edge of the material drawn through the machine, and means for actuating the cutting means and simultaneously actuating means to cause the pointer to puncture the sales slip.

1,339,749. COLLAPSIBLE HOGSHEAD OR BARREL. CHARLES W. FLOYD, Walnut Cove, N. C., assignor of one-fourth to L. A. Clark, Roanoke, Va. Filed Sept. 26, 1919. Serial No. 326,465. 6 Claims. (Cl. 217—44.)



1. A collapsible barrel comprising arcuate barrel sections, arcuate straps secured to said barrel sections, said straps having means at two adjacent edges of said barrel sections to interengage by a transverse movement of the straps together for attaching them together against longitudinal separation, said straps having portions at the other edges of the barrel sections adapted to fit together, and latches for holding the last named portions in engagement.

1,339,750. VALVE. JOHN L. FOISTER, Chapel Hill, N. C., assignor of one-half to William S. Roberson, Chapel Hill, N. C. Filed June 7, 1919. Serial No. 302,419. 2 Claims. (Cl. 137—104.)

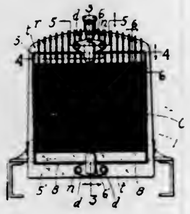


1. A supply valve including a casing having non-communicating alining bores extending thereinto from opposite ends respectively, a by-pass connecting the upper end of the lower bore with the upper end portion of the upper bore, a valve mounted for sliding movement within the upper bore and to position either entirely above or entirely below the point of communication between the upper bore and the by-pass, a wing nut closing the upper end of the upper bore and having a passage therethrough discharging downwardly from one of the wings, and a valve stem slidable within the wing nut, said nut constituting a seat for the valve when the valve is in its raised position.

1,339,751. MANUFACTURE OF MOCHA LEATHER. LYNDALL FORSE, Yeovil, England, assignor of one-third to Sidney Theodore Thring and one-third to Reginald John Luffman, Yeovil, England. Filed Dec. 29, 1916. Serial No. 139,579. 3 Claims. (Cl. 149—5.)

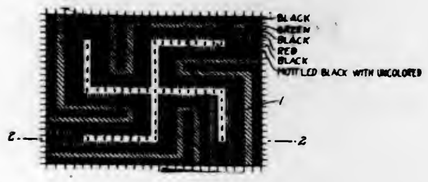
1. The method of manufacture of Mocha leather characterized by applying on one side only of a skin a solution of an agent adapted to attack the skin, thereupon completely removing the whole granular surface of the skin, thereby producing a leather which is soft and velvety throughout.

1,339,752. AUTOMOBILE-RADIATOR. JOHN W. FRANZ, St. Louis, Mo., assignor of one-half to Charles A. Marien, St. Louis, Mo. Filed Dec. 26, 1918. Serial No. 268,297. 3 Claims. (Cl. 257—125.)



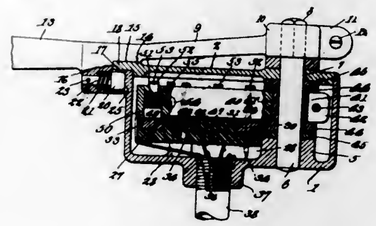
1. In a radiator, an outer frame provided with water circulating compartments or tanks, a detachable core inserted in and extending the width of the frame, water circulating connections between the core and compartments, and suitable shock absorbing devices between the core and frame.

1,339,753. PILE FABRIC AND YARN AND METHOD OF MAKING. AUGUST G. FROMUTH, Philadelphia, Pa., assignor to Alva Carpet & Rug Company, a Corporation of Pennsylvania. Filed Sept. 18, 1915. Serial No. 51,506. 16 Claims. (Cl. 139—71.)



1. The method of making pile fabrics containing printed yarns which consists in printing on the pile-forming yarns stripes of color and leaving thereon contiguous unprinted stripes, the stripes of one kind of said stripes being narrower than the width required for producing a pile-forming loop or corresponding tuft in the pile fabric, and then leaving such yarns to form a pile fabric having both colored and uncolored portions of the yarns displayed in individual pile-forming loops or tufts.

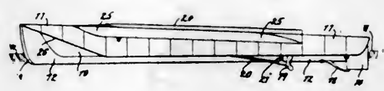
1,339,754. CONTROLLER FOR ELECTROPNEUMATIC BRAKE APPARATUS. FRANK GOFF, Camden, N. J. Filed Apr. 18, 1917. Serial No. 163,057. Renewed Oct. 2, 1919. Serial No. 328,084. 3 Claims. (Cl. 200—11.)



1. A controller embodying a casing having a flange and a curved abutment underneath said flange, a rock shaft journaled within the casing, a switch arm carried by the rock shaft within the casing, a handle lever engaged with the shaft outside of the casing and extending across said flange, the lever having a hook-shaped lug engageable with said flange to prevent the removal of the lever excepting when swung to one position, and a spring pressed friction member carried by said lug to bear against said abutment.

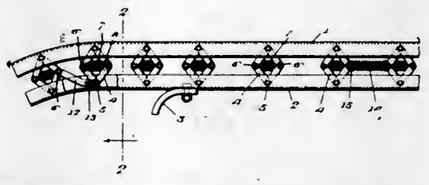
2. A controller embodying a casing having a cover, a rock shaft journaled within the casing and extending through the cover, a switch arm carried by the shaft within the casing, a handle lever engageable detachably with the shaft above the cover, the cover having an arcuate flange at one end provided with a cut away portion, the casing having an arcuate abutment below said flange and provided with a beveled portion below the cut away portion, the lever having a hook-shaped lug movable through said cut away portion in one position of the lever and engageable with said flange to prevent the removal of the lever in its other positions, and a spring pressed friction member carried by said lug engageable with said abutment and guided into engagement therewith by said beveled portion when the lug is moved through the cut away portion to engage the flange.

1,339,755. SHIP'S-HULL CONSTRUCTION. FREDERICK W. GORE, Huntington, N. Y. Filed Oct. 16, 1915. Serial No. 56,303. Renewed Sept. 22, 1917, Serial No. 192,825. 18 Claims. (Cl. 114—66.5.)



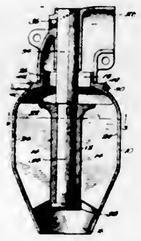
1. In a marine craft, a hull, and an air-pressure shell unitary with said hull and extending in the direction of the length thereof, said air-pressure shell being so related to the hull that the respective side portions of the shell are adapted to be sealed by the medium in which said hull floats, whereby the hull is lifted partially out of the water when the craft is in motion.

1,339,756. AUTOMOBILE-BUMPER. CALVIN C. HELMAN, Cleveland, Ohio. Filed Jan. 9, 1920. Serial No. 350,310. 6 Claims. (Cl. 293—55.)



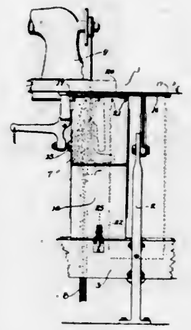
4. A bumper comprising spaced members, toggle devices, having joints, pivots connecting said devices with said members, springs connecting the joints of said devices for separating said members, and oblique members connecting some of said joints with some of said pivots for limiting the separation of said members and restricting relative endwise movement thereof when separated.

1,399,757. DUST-SEPARATOR. HUGH HILL and JOHN B. DYER, Anderson, Ind.; said Dyer assignor to said Hill. Filed Sept. 16, 1918. Serial No. 254,240. 2 Claims. (Cl. 183—77.)



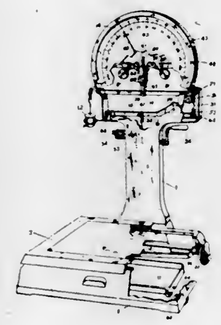
1. In mechanism of the class described, in combination with a machine adapted to draw dust laden air into itself, a vertical rotatable chamber having a discharge port at its top entering the intake of said machine, means operated by the machine for rotating the chamber with reference to said machine, means inside said chamber for driving the dust therein toward the inner surface of the outer wall of the chamber, there being an air intake opening in the bottom of the chamber, the areas of said intake and discharge openings of said chamber being less than the cross sectional area of the interior of the chamber, while the lower opening is of a sufficient unobstructed size so that when the rotation of the chamber is stopped, dust inside the chamber discharges itself by gravity through said lower opening.

1,339,758. TRANSMITTER-GUARD FOR POWER-TABLES. PETER HLEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 3, 1919. Serial No. 294,486. 5 Claims. (Cl. 74—56.)



1. The combination with a machine table and power-transmitter mechanism carried thereby, of a guard comprising a sheet-metal body having spaced walls adapted to receive a portion of the power-transmitter therebetween, and a sliding hinge connection between said table and guard.

1,339,759. SCALE. JOSEPH HOPKINSON, Dayton, Ohio, assignor to The Computing Scale Company, Dayton, Ohio, a Corporation of Ohio. Filed July 1, 1915. Serial No. 37,434. 15 Claims. (Cl. 265—62.)

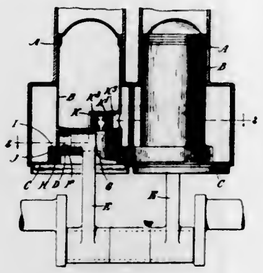


1. In a device of the class described, in combination, a scale beam of the first order, a pair of oppositely disposed normally elevated pendulums connected to the scale beam on one side of its fulcrum to counterbalance the beam, an intermediate scale lever of the second order connected with the scale beam on the outer side of the fulcrum thereof, a commodity support, and means connecting the latter to the intermediate scale lever at a point between its fulcrum and the point of connection of the scale to the lever.

1,339,760. INTERNAL-COMBUSTION ENGINE. PERCIVAL TURNER HOUSTON, London, England, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Filed Dec. 7, 1918. Serial No. 265,757. 3 Claims. (Cl. 123—45.)

2. In an internal combustion engine in which the working piston uncovers ports in the cylinder by both a turn-

ing and a reciprocating movement of the whole piston. the combination of a gudgeon pin; bearings for said pin; a



flange on the working piston and adapted to enter a seating in the pump piston; and a ring to connect the flange rotatably to the pump piston so that both pistons reciprocate together.

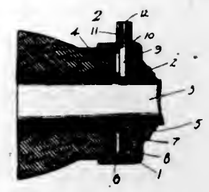
1,339,761. VENTILATING AND DRAINAGE SYSTEM. WILLIAM E. HUGHES and JAMES B. KING, Clyde, Ohio, assignors to the Hughes Granite Company, Clyde, Ohio, a Corporation of Ohio. Filed Nov. 21, 1917. Serial No. 203,264. 4 Claims. (Cl. 98—32.)



1. In ventilating and drainage systems, the combination of a building wall; a window opening and a window therefor provided in said wall; and channels formed in said wall and connecting the interior surface of said window with the atmosphere above and below said window.

4. In ventilating and drainage sytsems, the combination with walls and a floor forming an inclosed structure, said structure having a window opening in one wall thereof, and a window frame and a window therefor; of upper and lower channels in said wall communicating with the atmosphere at their upper and lower ends, respectively, and communicating at their lower and upper ends, respectively, with the interior surface of said window, upper openings in said wall communicating with said inclosed space and with said upper channel, and openings in the structure floor communicating with the atmosphere.

1,339,762. LEAK-PROOF OIL-WASHER. CLARENCE J. HUNSTAD, Guttenberg, Iowa. Filed Oct. 20, 1919. Serial No. 331,801. 5 Claims. (Cl. 286—7.)



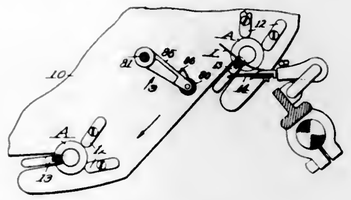
1. A leak proof washer comprising a cap to fit over the end of a housing or other member, a plate fitted within said cap having a vent portion communicating with the atmosphere, and packing between said plate and cap, said cap and plate having central openings.

1,339,763. ANIMAL-FEEDING DEVICE. ERNEST S. JOHNSON, Webster City, Iowa. Filed May 20, 1919. Serial No. 298,400. 3 Claims. (Cl. 119—52.)



1. In feed trough covering means, an inclined imperforate closure for a feed trough, hinged to swing vertically, and having a depending lateral marginal flange, and a transverse conduit supported across said feed trough into which the said marginal flange extends when the closure is lowered.

1,339,764. LABEL-WIPING MECHANISM. JOHN EMANUEL JOHNSON and CHARLES H. OSLUND, Worcester, Mass., assignors to The O & J Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 22, 1919. Serial No. 284,317. 31 Claims. (Cl. 216—9.)



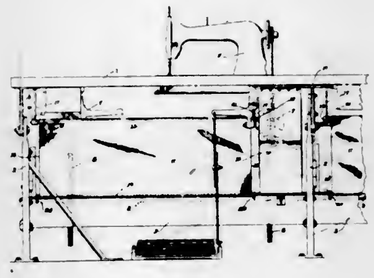
1. In a wiping device for applying labels, the combination of a continuously rotating member having a stud eccentrically mounted thereon, a frame pivotally mounted on the stud, a second frame movably supported on the first frame and having a wiper thereon for engaging the label, and means on said rotary member for swinging the second frame about its pivot.

1,339,765. OIL-CAN. JOHN D. KARLE, Roshelle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 23, 1918. Serial No. 218,610. 2 Claims. (Cl. 221—32.)

1. As a new article of manufacture, a metallic oil can having a resilient base portion, a vaulted body portion provided with a filling opening and means for closing said opening, a conical spout projecting from the body portion intermediate the base and filling opening and at a substantial angle to the base portion, said spout being formed integral with the body portion by drawing out a portion of the walls thereof.



1,339,766. GUARD FOR POWER-TABLE DRIVING MECHANISMS. JOHN D. KARLE, Roselle Park, N. J., assignor to the Singer Manufacturing Company, a Corporation of New Jersey. Filed May 3, 1919. Serial No. 294,413. 7 Claims. (Cl. 74—56.)



1. The combination with a power-table including a tabble-top and power mechanism below said table-top, of a guard comprising a pair of brackets secured to the under side of the table-top, a rod mounted in said brackets, a flexible apron supported at its upper edge by said rod and carrying a second rod at its lower edge, means for sustaining said second rod in operative position and means whereby one of said rods may be readily released to permit the apron to be folded to expose the power mechanism.

1,339,767. DUSTER ATTACHMENT FOR BROOMS. DANIEL R. KELLY, Toronto, Ontario, Canada, assignor to James Peter Murray, Toronto, Ontario, Canada. Filed Aug. 14, 1919. Serial No. 317,439. 3 Claims. (Cl. 15—20.)



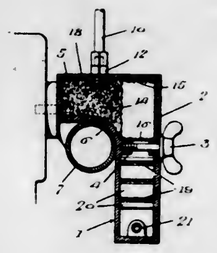
1. A duster attachment for corn brooms and the like comprising a flat piece of textile fabric adapted to be folded around the bottom of a broom, provided at each end with a casing and at the middle with a heavy transverse fringe of threads; a spring wire in each casing having projecting ends; and means whereby the ends of the wires may be releasably connected to clamp the ends of the fabric against the sides of the broom.

1,339,768. PAPER-FILE. CHARLES H. LEE, Garwood, Mo. Filed Feb. 20, 1919. Serial No. 278,146. 1 Claim. (Cl. 129—11.)



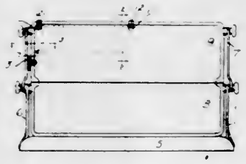
A paper file, comprising a base, a plate on the base provided with spaced upstanding ears, an arm pivoted between the ears, a spring secured to the plate opposite the space between the ears and exerting a pressure on the arm, a curved member at the outer end of the arm and forming a part thereof, and a complemental member secured to the base and in close contact with the curved member of the said arm, both members being formed on the arcs of circles whose centers coincide with the pivot center of the said arm.

1,339,769. OIL-REFINER. JOHN SHERMAN LEIGH, Cincinnati, Ohio. Filed Dec. 17, 1919. Serial No. 345,604. 5 Claims. (Cl. 210—62.)



1. An oil refiner comprising a casing having a pocket extending therefrom and a chamber in front of said pocket, filtering material within said pocket, said casing having an oil inlet leading to said pocket, and screens within the casing below said chamber, said casing having an oil outlet below said screens.

1,339,770. COMBINED RAIN AND GLARE GUARD FOR THE WINDSHIELDS OF AUTOMOBILES. LEE W. LOCKWOOD, Minneapolis, Minn. Filed July 16, 1917. Serial No. 180,747. 1 Claim. (Cl. 296—96.)



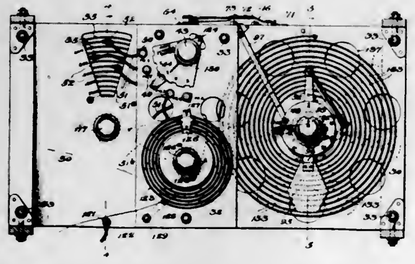
A rain and glare-guarding attachment for the wind shield of an automobile, comprising mounting clamps detachably securable to the upper rim of the wind shield, a plate having a colored or light dimming surface pivoted to said mounting clamps, an adjusting lever attached to one end of said plate, a lever-anchoring clamp detachably and adjustably securable to the wind shield, and a clamping swivel carried by said anchoring clamp and engageable with said lever to hold said plate in any desired angular adjustment, substantially as described.

1,339,771. PROCESS FOR DRYING MATERIALS. HUGH B. LOWDEN, Denver, Colo. Filed Oct. 22, 1917. Serial No. 197,905. 3 Claims. (Cl. 34—23.)



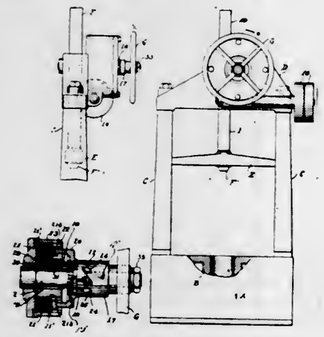
1. A method of mechanically drying materials consisting in delivering the material upon a hearth at one end, applying heat to the hearth, and advancing the material over the hearth toward the other end by repeatedly cleaving it in a substantially vertical direction and pushing it through a small part of the length of the hearth.

1,339,772. RADIOSIGNALING APPARATUS. FRITZ LOWENSTEIN, Brooklyn, N. Y. Filed Jan. 19, 1918. Serial No. 212,615. 17 Claims. (Cl. 250—17.)



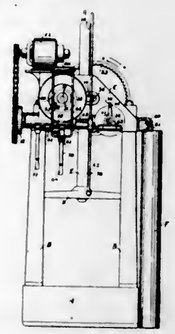
7. Radio signaling apparatus comprising, in combination, coöperating oscillatory circuits each including reactance-varying means, a member associated with each said means and movable to actuate the same, and controlling means connecting said members and operable to move them simultaneously and thereby to change the wave length in both circuits according to a predetermined reactance relation between said circuits, the connection of said controlling means to said members being adjustable to alter said predetermined reactance relation and to permit simultaneous operation of said members by said controlling means according to the altered relation.

1,339,773. POWER-PRESS. HENRY M. LUCAS, Cleveland, Ohio. Filed Feb. 6, 1919. Serial No. 275,453. 10 Claims. (Cl. 29—85.)



1. In a power press, in combination, a ram adapted to be moved by hand operable means to stroke position and to position for doing its work; power mechanism for moving the ram to do its work by continuous onward movement; clutch mechanism for engaging said power mechanism to move the ram to do its work; and a single means for operating said ram for movement to stroke position and to position for doing its work and for operating said clutch mechanism.

1,339,774. POWER-PRESS. HENRY M. LUCAS, Cleveland, Ohio. Filed Feb. 6, 1919. Serial No. 275,454. 14 Claims. (Cl. 29—85.)



1. In a power press, in combination, a ram adapted to move to position for its working stroke and to move to its work, quick power motion mechanism to move the ram to position for its working stroke and to move the ram to position for its work, means for operating the quick power motion mechanism, slow power pressing motion mechanism to move the ram to and during its work, and means for operating the slow power pressing motion mechanism to move the ram to and during its work and on completion of movement of the ram in its work to operate the quick power motion mechanism to move the ram to position for new working stroke.

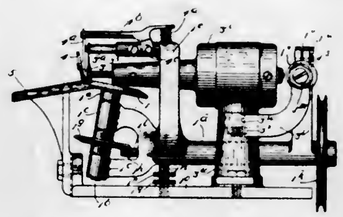
1,339,775. DOOR-BOTTOM WEATHER-STRIP. WARREN G. MAXCY and WILLIAM A. RIDEOUT, Oshkosh, Wis. Filed Feb. 15, 1917. Serial No. 148,737. 2 Claims. (Cl. 20—67.)



1. The combination with a swinging door having a recess in its bottom extending throughout the width thereof, of a weather strip swingingly and slidably mounted in said recess, yielding backing members disposed within said recess between the top wall of the recess and the upper edge of the strip, a spring for yieldingly normally retaining said strip in inoperative position within said recess, and an abutment adjacent the door for engaging said strip when the door is closed to move the same outwardly of said recess against the action of said spring to render the same operative.

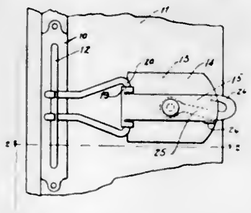
1,339,776. LEATHER-EDGE-FINISHING MACHINE AND METHOD THEREFOR. FRANK W. MERRICK, Boston, Mass. Filed Jan. 2, 1920. Serial No. 348,980. 37 Claims. (Cl. 69—17.)

26. Leather-edge burnishing devices comprising a work-support, and a burnishing tool having a portion opposed to the face of said work-support, to burnish the marginal face of the leather, and also having an edge-burnishing portion extending alongside the edge of the work-support, with the acting face of the work-support and



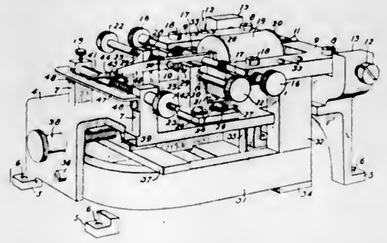
the acting surface of the edge-burnishing portion of the tool arranged in an angular relation to each other causing the lower angle of the leather-edge to be backed-off or worked under by the burnishing action.

1,339,777. HAME AND TRACE CONNECTOR. CARL A. MIKKIN, Olmsted, Ill. Filed July 22, 1919. Serial No. 312,586. 2 Claims. (Cl. 54—30.)



1. A hame and trace connector comprising a casing formed from a single piece of resilient metal and including spaced plate portions, a trace end engaging hook carried by one end of the casing, a hame engaging hook mounted between the plate portions, said hame engaging hook having its bill portion of a thickness slightly greater than the distance between the plates whereby when said bill portion is moved to a position between said plate portions said bill will be frictionally engaged thereby and held from accidental displacement.

1,339,778. ELECTROMAGNETIC DEVICE. DANIEL D. MILLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1917. Serial No. 206,455. 13 Claims. (Cl. 200—93.)



1. An electromagnetic device comprising a permanent magnet, an energizing coil, an armature extending therethrough, and means including said armature and exclusive of said coil for counterbalancing the greater portion of the polarizing bias of said permanent magnet in either direction.

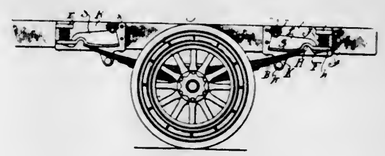
2. An electromagnetic device comprising an energizing coil, a permanent magnet having pole pieces therefor, and an armature supported between said pole pieces as a cantaliver beam and extending through the coil, said armature being so arranged and proportioned that the resistance of the beam to bending in either direction nearly counterbalances the polarizing bias of said permanent magnet.

3. An electromagnetic device comprising a polarizing magnet, a pair of bifurcated pole pieces for said magnet, each of said pole pieces comprising a fixed limb and an adjustable limb, an armature clamped between said fixed limbs, an energizing coil encircling said armature, a circuit changing device operated by said armature, and an armature biasing device.

4. An electromagnetic device comprising a permanent magnet, a pair of pole pieces for said magnet, each of said pole pieces comprising a fixed limb and an adjustable limb, an armature clamped between said fixed limbs and adapted to vibrate between said adjustable limbs, and an energizing coil encircling said armature.

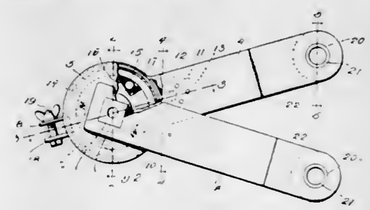
5. An electromagnetic device comprising a permanent magnet, a pair of pole pieces for said magnet, each of said pole pieces comprising a fixed limb and an adjustable limb, an armature clamped between said fixed limbs, means for magnetically insulating said armature from said pole pieces, and an energizing coil encircling said armature.

1,339,779. SPRING SADDLE AND SHOCK-ABSORBER. CHARLES M. MOHLER, Richmond, Ind. Filed Aug. 7, 1919. Serial No. 315,946. 5 Claims. (Cl. 267—16.)



1. In a spring saddle and shock-absorber, the combination with a frame, of a leaf spring, a rocking spring bearing having a lower curved surface of relatively long radius resting upon the leaf spring, one end of the said rocking bearing being pivotally connected with the said frame, and a shock absorber spring arranged between the other end of said rocking bearing and said frame whereby said curved surface rocks upon the leaf spring and the point of contact moves in and out upon said spring under variations of load.

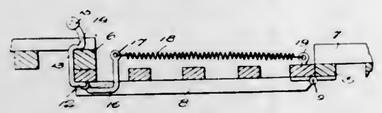
1,339,780. SHOCK-ABSORBER. ROY C. MOBEY, Lincoln, Nebr. Filed Aug. 18, 1919. Serial No. 318,225. 3 Claims. (Cl. 188—130.)



1. In a shock absorber, a circular core member having central circular bosses projecting from its opposite sides and poly-sided bosses extending from said circular bosses, the periphery of said core member having tapered notches, a brake ring surrounding said core member, clutch rollers in said notches adapted to lock said core member and brake ring for rotation together, when said core member

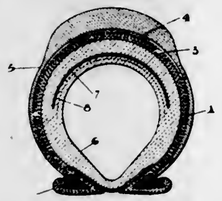
moves in one direction, an inner pair of levers having openings in one end rotatably receiving said circular bosses, an outer pair of levers having one end fixedly mounted on said poly-sided bosses, a brake band surrounding said brake ring and held in frictional contact therewith, and means connecting said brake band with said inner pair of levers for movement therewith.

1,339,781. GATE-FASTENER. ADDAN NELLIS, Monowi, Nebr. Filed June 10, 1919. Serial No. 303,192. 2 Claims. (Cl. 292—128.)



1. A gate fastener including an integral latch comprising a rock shaft rotatably mounted on the end post of the gate, a coil spring on the gate, an arm on the rock shaft extending through the gate and engaging the coil spring, a second arm on the shaft extending part way about the end post of the gate, and bent intermediate its extremities to form a latch for engaging a gate post to hold the gate closed, and an extension on the second arm constituting a deflector and an operating member for unhooking the latch against the tension of the coil spring.

1,339,782. PNEUMATIC TIRE. ISAAC NORMANDY, St. Catharines, Ontario, Canada, assignor, by direct and mesne assignments, to Isaac L. Leo, Toronto, Canada. Filed Apr. 24, 1919. Serial No. 292,317. 3 Claims. (Cl. 152—13.)



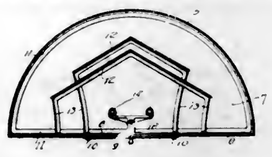
1. A tubular pneumatic tire comprising a canvas-strengthened carcass provided with rim engaging edges; a rubber tread applied to the carcass; a tubular lining of heavy elastic rubber connected to the interior of the carcass; a stratum of semi-fluid puncture-sealing composition embodied in said tubular lining; and a band of textile fabric embedded in the rubber lining and spaced from the stratum of puncture-sealing composition.

1,339,783. CLEANSING AND STERILIZING PREPARATION. CHARLES EDWARD NORTH, Montclair, N. J., assignor of one-half to Earle B. Phelps, Washington, D. C. Filed Apr. 13, 1917. Serial No. 161,809. 7 Claims. (Cl. 167—3.)

1. As a new article of manufacture, a stable, dry disinfecting preparation, containing calcium hypochlorite and a desiccating agent in such proportion as shall cause the drying action of the desiccating agent to predominate over the deliquescing tendency of the calcium hypochlorite.

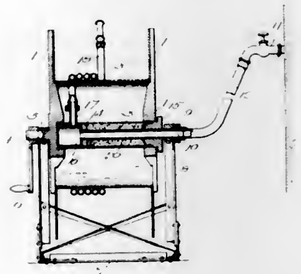
1,339,784. RUG-DRYING DEVICE. RANDOLPH J. OSBORNE, Chicago, Ill. Filed Apr. 10, 1919. Serial No. 289,081. 6 Claims. (Cl. 34—26.)

6. A drying device comprising a substantially tight housing of sheet metal having its upper wall substantially semi-cylindrical and its bottom and end walls flat, there being an opening in the bottom wall for gaining access to the interior of the housing; a door in and closing said



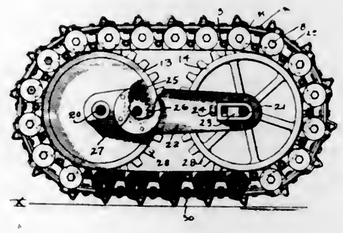
opening; a plurality of spaced deflectors in the housing with each deflector having its central portion higher than its edge portions; and a heating element under said deflectors.

1,339,785. HOSE-REEL. GEORGE L. PERRINE, Portland, Oreg. Filed June 4, 1918. Serial No. 238,169. 1 Claim. (Cl. 299—78.)



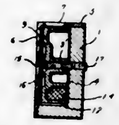
A hose reel having a hollow hub and provided at one end with a journal pin for engaging a support, an expansion chamber within one end of the hollow hub, a supply pipe extending through the other end of the reel and axially of the hub to the expansion chamber, a nipple extending radially from the expansion chamber for connection with a hose, the hub inclosing the supply pipe and the expansion chamber.

1,339,786. TRACTION-BELT. JOSEPH W. PORTER, Oakland, and RICHARD L. ARNDT, San Francisco, Calif., assignors to Union Tractor Company, San Francisco, Calif., a Corporation of California. Filed May 6, 1918. Serial No. 232,733. 11 Claims. (Cl. 21—159.)



1. A traction belt including a series of pairs of jointed links, abutments in the joints of said links set at more than 90° to the longitudinal line of said links; a bearing ring partially inclosing said abutments and holding the link joints together longitudinally; spacer pins intermediate the link joints for holding the series of pairs of links together; and base plates fixed on said links and having abutting edges, whereby said belt can not be longitudinally straightened.

1,339,787. PROTRACTOR-LEVEL. ELWOOD L. POWELL, Philadelphia, Pa., and HENRY J. ALBERSWORTH, St. Louis, Mo. Filed Apr. 17, 1919. Serial No. 290,659. 1 Claim. (Cl. 33—215.)



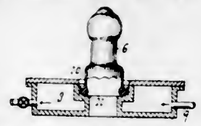
An improved protractor level and plumb comprising a frame or stock; an indicating-wheel having graduation-marks upon its periphery and upon its side and eccentrically-weighted; a removable face-plate L-shaped in cross-section and having sight-openings in its two faces; means for securing said face-plate over a recess that is formed in said frame; a pivot-pin fixed in a central bore of the said indicating-wheel and having bearings in its opposite ends; a fixed pintle carried by said face-plate and projecting into the bearing in one end of said pivot-pin; and an adjustable bearing-pintle in the form of a screw that is threaded through the wall of the recess in said frame at a point opposite the said fixed pintle, and the inner end of which adjustable pintle projects into the adjacent bearing in said pivot-pin.

1,339,788. SANCTUARY-LAMP. FRANK QUIN, Philadelphia, Pa. Filed Nov. 4, 1919. Serial No. 335,784. 1 Claim. (Cl. 67—36.)



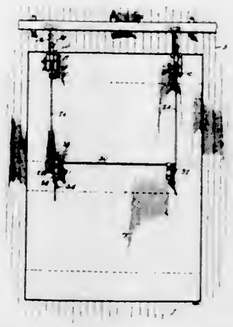
In a sanctuary lamp the combination of a body portion terminating in a cup-shaped member, a vessel adapted to contain a liquid illuminant mounted in said member, with a wick-holder comprising a horizontally disposed, vertically apertured disk-like portion, an upwardly and outwardly extending arm for said disk-like portion which arm is inversely-conversely curved, divergent finger pieces for said arm which finger pieces coöperatively engage the rim of said vessel, said disk-like portion, arm and finger-pieces being in integral structure, the juncture of said finger pieces being with the conversely curved part of said arm, a depending socket fitted to the apertured portion of said disk-like portion and a wick of a diameter in excess of the socket-passage diameter depending from said socket into the liquid illuminant, said wick, as consumed, being adapted to give off a flame which is constant in a plane above the plane of the upper rim of said cup-shaped member.

1,339,789. METHOD OF REMOVING FINS FROM RUBBER ARTICLES. ROBERT ROTHWELL, Keyport, and WILLIAM HUDSON CUTTRELL, Matawan, N. J., assignors to Whitall Tatum Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1919. Serial No. 348,616. 6 Claims. (Cl. 18—56.)



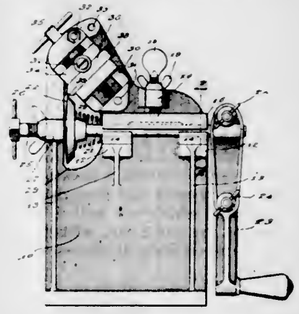
1. The method of removing surplus rubber from rubber articles, which consists in subjecting a molded article to a degree of heat sufficient to eliminate the surplus rubber.

1,339,790. DOOR-HANGER. ISAIAH R. SALLADAY, Ainsworth, Iowa. Filed Aug. 18, 1919. Serial No. 318,219. 4 Claims. (Cl. 20—24.)



1. The combination with a wall having a door opening, of a door for closing said opening, attaching devices secured to the upper portion of the door, triangular hangers pivotally connected to said attaching devices and extending upwardly and outwardly from the same, trolleys pivotally connected to the upper portions of the triangular hangers, links pivotally connected to said attaching devices and said trolleys and arranged in spaced parallel relation to said hangers, and operating members connected to the outer portion of said hangers.

1,339,791. VALVE-LATHE. ALBERT C. SAVIDGE and FRANK D. HATFIELD, Indianapolis, Ind. Filed June 17, 1918. Serial No. 240,290. 6 Claims. (Cl. 82—1.)



1. A valve lathe, comprising a support, bearing blocks carried by said support for receiving the stem of a valve, one of said bearing blocks being adjustable, a detachable handle mountable on the valve stem for turning the valve and stem, an adjusting screw bearing against the valve for adjusting it endwise, a spring acting in opposition to said adjusting screw, and a tool carrier for supporting a tool in position to act on said valve when the valve and stem are turned by said handle and are adjusted by said screw.

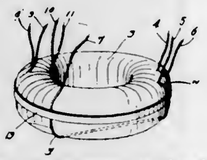
1,339,792. MILK-BOTTLE HANGER. OLIVER A. SMITH, Seattle, Wash. Filed Mar. 21, 1919. Serial No. 283,988. 2 Claims. (Cl. 248—20.)



1. A bottle hanger consisting of a bracket comprising a part adapted for fastening to a support and having par-

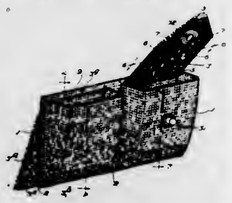
allel perforated ears and bail suspended from said bracket, said bail made of wire formed in the shape of a half loop and adapted to encircle the neck of the bottle below the rim at the mouth, the ends of the bail being turned inward and constituting lips so located as to engage with said neck and under said rim rearward of the longitudinal center of the bottle.

1,339,793. TELEPHONE-TRANSFORMER. VIRGIL L. SMITH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1917. Serial No. 151,722. 6 Claims. (Cl. 178—46.)



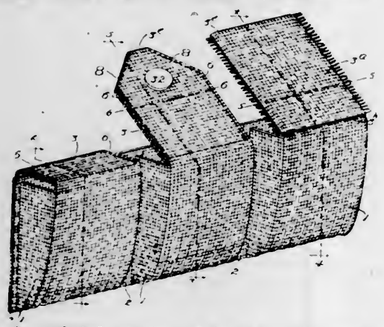
1. In a telephone transformer, a plurality of transformer windings, and a supplementary winding connected in series with one of said transformer windings and arranged to link with the leakage flux from said transformer windings.

1,339,794. POCKETED CARRIER AND METHOD OF PRODUCING THE SAME. GEORGE W. SPALDING, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1918. Serial No. 254,741. 14 Claims. (Cl. 224—23.)



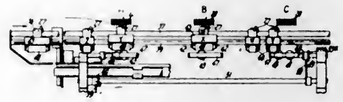
1. A pocketed carrier having a pocket cover-flap woven as an integral part thereof and comprising a plurality of thicknesses of cloth which are united marginally along both side edges of the cover-flap, with the raw marginal edges inclosed between such thicknesses by introversion of the cover-flap.

1,339,795. POCKETED CARRIER AND METHOD OF PRODUCING THE SAME. GEORGE W. SPALDING, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1918. Serial No. 254,742. 15 Claims. (Cl. 224—23.)



1. A pocketed carrier having an introverted pocket cover-flap woven as a part of the pocket-front and comprising a plurality of thicknesses of cloth which are united marginally, with the raw marginal edges inclosed between such thicknesses.

1,339,796. COMBINED ADDING AND TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 18, 1918. Serial No. 258,695. 35 Claims. (Cl. 235—60.)



9. In an adding machine having a carriage and a set of denomination jacks, the combination of a succession of normally ineffective denomination-selecting dogs, means to enable one of said dogs to select jacks at only one portion of the set, and means to enable another of said dogs to select jacks at only another portion of the set.

22. In an adding machine having a carriage and a set of denomination jacks, the combination of a succession of normally ineffective denomination-selecting dogs, means to enable one of said dogs to select jacks at only one portion of the set, means to enable another of said dogs to select jacks at only another portion of the set, and means to enable a certain plurality of said dogs to select jacks at a third portion of the set, for performing cross-addition of numbers added in the first and second portions of the set.

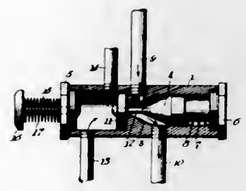
32. As a new article of manufacture, an adjustable denomination-selecting dog for an adding machine, having a plurality of cams out of line with each other, for cooperating with staggered dog-elevating devices to determine how many denominations may be selected by said dog when each of the cams thereon is in use.

1,339,797. SCISSORS. CHARLES R. STORZ, of Brooklyn, N. Y. Filed Sept. 12, 1919. Serial No. 323,232. 8 Claims. (Cl. 30—13.)



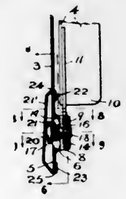
1. A scissors presenting cutter seats having undercut recesses therein at different distances from the front ends of said seats, and removable cutter elements adapted to said seats and having inclined tongues receivable in said recesses.

1,339,798. VALVE. GEORGE WILLIAM THOMPSON, Cheboygan, Mich. Filed July 18, 1919. Serial No. 311,712. 4 Claims. (Cl. 184—6.)



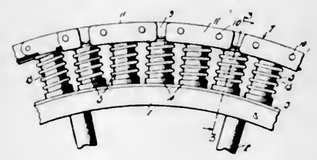
1. In an internal combustion engine, a casing having a transverse partition dividing the casing into two compartments, said partition having a port, a valve in one of the compartments coöperating with the port, a spring normally acting to seat the valve, the said compartment being interposed in the fuel supply line of the engine, and the other compartment being interposed in the oil supply line of the engine, said valve when seated closing the fuel line, and a plunger in the last named compartment connected with the valve and controlled by the pressure of the oil in the compartment for holding the valve open.

1,339,799. BAG-FRAME AND HINGE CONNECTION THEREFOR. BENNO VOM EIGEN, Newark, N. J., assignor to August Goertz & Co., a Corporation of New Jersey. Filed Mar. 13, 1919. Serial No. 282,254. 6 Claims. (Cl. 16—111.)



2. In a bag-frame comprising a pair of frame-sections, said frame-sections being formed with end or pivot-members, one of said members having pressed out therefrom an inwardly extending chambered portion, provided with a diagonally extending and perforated retaining rib, a hinge-plate secured to the other of said pivot-members, said plate having a pivot-member provided with a diagonally extending and perforated retaining rib, adapted for separable registration with said first-mentioned retaining rib, a pivot-pin secured in the perforation of said second-mentioned rib, the main shank-portion of said pivot-pin extending into said chambered portion, said pivot-pin being provided with a head, a spring encircling said pivot-pin between said head and the inner wall of said chambered portion, and a cap mounted over said chambered portion.

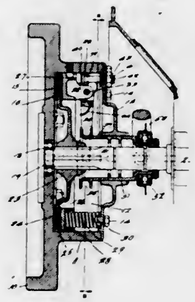
1,339,800. RESILIENT WHEEL. VINCENT A. WALKUP, Apache, Okla. Filed Apr. 23, 1918. Serial No. 230,296. 1 Claim. (Cl. 152—8.)



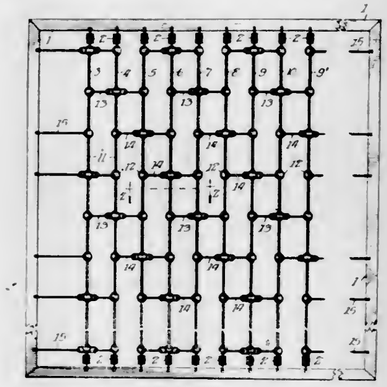
A vehicle wheel including a fixed rim and a tread member spaced radially from each other and yieldably connected, the tread member being composed of a plurality of pivotally connected series of edgewise disposed links, the links on the side edges being wider than the others to form housings, reinforcing and spacing plates carried between the said side links, and lugs secured between two center links of some of the series of links and projecting through said plates.

1,339,801. CLUTCH. SAMUEL O. WHITE, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Apr. 20, 1917. Serial No. 163,335. 17 Claims. (Cl. 192—7.)

6. A clutch comprising a main rotative body having an axial chamber, a transmission shaft axially projected into said chamber, a friction disk splined upon said shaft, a pressure ring splined in said chamber outside the friction disk, compression springs arranged in said chamber and acting upon said pressure ring to normally clamp the friction disk between the pressure ring and the main rotative body, retracting levers pivoted to the pressure ring and projected inwardly therefrom, an operating sleeve, independent abutments one for each retracting lever carried by the main body, said abutments projecting radially inward beyond the periphery of the pressure ring and being supported by the main body axially on the opposite side of the pressure ring from said friction disk, and means by which each of said abutments may be independently adjusted and held in adjusted position with relation to its associated retracting lever.



1,339,802. SPRING FABRIC. HENRY J. WILLEMS, Kenosha, Wis. Filed Oct. 28, 1919. Serial No. 333,927. 3 Claims. (Cl. 245—5.)

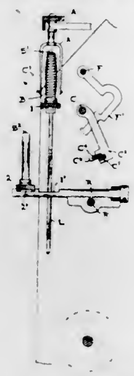


2. A fabric for bed springs or the like, comprising a plurality of spaced longitudinal chains consisting of links and rings connected alternately, and transversely disposed supports for said chains, said supports connecting the rings of alternate chains and lying beneath the rings of intervening chains.

1,339,803. DOFFING MECHANISM FOR SPINNING-FRAMES. SAM AMBLER, Bradford, England. Filed Oct. 12, 1917. Serial No. 196,185. 3 Claims. (Cl. 118—18.)

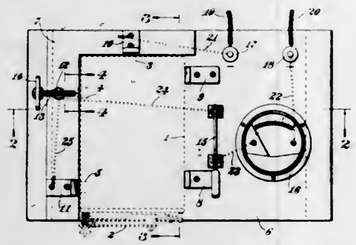
1. A doffing mechanism comprising, in combination with fliers, a pair of spindle supporting rails, longitudinally movable bars for supporting both of said rails contem-

poraneously in a position remote from the fliers during a portion of the doffing operation, oscillatory fingers for



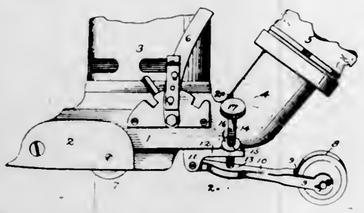
supporting the rails so that the spindles carried by the latter are within the fliers, and pillars for moving either of the rails to and from the bars or fingers.

1,339,804. SPARK-COIL-TESTING APPARATUS. EDWIN C. BALLMAN, St. Louis, Mo., assignor to Stahl A. Whitten, St. Louis, Mo. Filed July 19, 1918. Serial No. 245,736. 4 Claims. (Cl. 175—183.)



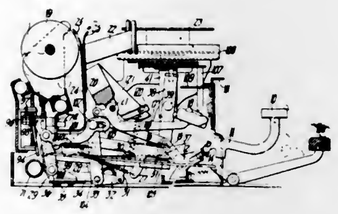
1. A spark coil testing apparatus, comprising, a base, a series of elements mounted on said base and adapted to receive and support a coil and connect with the terminals thereof, and an electrode mounted on said base and adapted to coöperate with one of the terminals of the coil to form a spark gap.

1,339,805. ADJUSTABLE CASTER. CHARLES S. BEARDSLEY, Canton, Ohio, assignor to The United Electric Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 12, 1918. Serial No. 253,727. 4 Claims. (Cl. 16—165.)



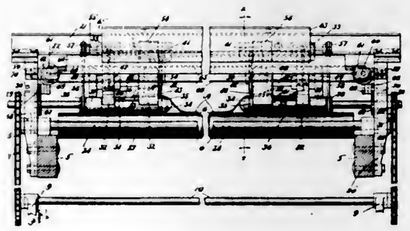
2. In combination, a bracket, an arm pivoted to the bracket at one end having a caster wheel at the other end and a flat face presented to the bracket, and an adjusting screw in the bracket inclined to said face having a pyramidal point with facets thereon adapted to abut the arm face flatwise.

1,339,806. TYPEWRITING-MACHINE. LEE S. BURRIDGE, deceased, New York, N. Y., by Francis O. Burridge, executor, New York, N. Y., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 6, 1918. Serial No. 238,456. 12 Claims. (Cl. 197—186.)



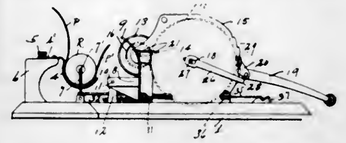
1. In a typewriting machine, in combination, a main frame, a shift frame, means for so mounting said shift frame in said main frame as to permit case-shift movements of one with respect to the other, a traveling carriage and its letter-spacing mechanism mounted in said shift frame, ribbon-feeding mechanism mounted in said shift frame, ribbon-vibrating mechanism mounted in said shift frame, means mounted in said main frame for operating all of said mechanisms, operating connections from said operating means to each of said mechanisms, said connections being effective irrespective of the case-shift position of said shift frame, and readily attachable and detachable connections between said shift frame and its mounting means to facilitate the assembling and disassembling of the machine; the operating connections between said operating means and said letter-spacing mechanism, ribbon-feeding mechanism and ribbon-vibrating mechanism being also readily attachable and detachable, and so related, when detached, that the shift frame and all parts carried thereby may be readily assembled with and disassembled from the main frame and the parts mounted therein.

1,339,807. TRIMMING-MACHINE. JAMES A. BUTLER, Needham, Mass. Filed Oct. 29, 1917. Serial No. 199,082. 7 Claims. (Cl. 164—61.)



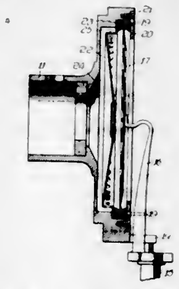
1. A trimming machine comprising a traveling apron, a bearing frame, means providing for support and transverse adjustment of said bearing frame, a shaft journaled in said bearing frame, and having a friction sleeve, a rotatable sleeve and a collar, a shaft journaled in a yielding bearing of said bearing frame and having a friction member to be driven from said friction sleeve and a pressure roll coöperating with said rotatable sleeve, and a cutter coöperating with said collar.

1,339,808. COIN-WRAPPING MACHINE. ALBERT V. CHAMBERLIN, Coeur d'Alene, Idaho. Filed Apr. 7, 1919. Serial No. 288,180. 8 Claims. (Cl. 93—2.)



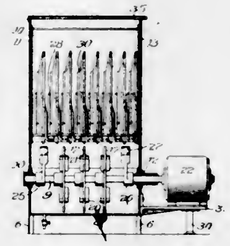
1. The combination with the receiving trough and base, of a reciprocable carrier, means actuated on the forward movement of the carrier for turning one edge of the wrapper over the coins, and means on the carrier for revolving and wrapping the coins.

1,339,809. SOUND-BOX. FOREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 15, 1918. Serial No. 217,317. 3 Claims. (Cl. 274—27.)



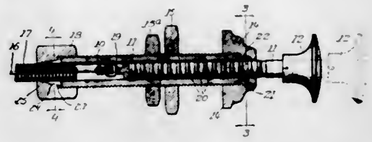
1. In a sound box in combination, an imperforate partition mounted rearwardly of the diaphragm, said partition being substantially dished, forming axially and radially extending marginal portions, said axially extending portion having apertures therethrough, the shallow part of the central portion being directed toward said diaphragm and arranged centrally therewith, and means engaging said radial portion for securing said partition in said sound box.

1,339,810. DISH-WASHING MACHINE. SMITH H. COCHRAN, Chicago, Ill. Filed Feb. 27, 1918. Serial No. 219,377. 2 Claims. (Cl. 141—9.)



1. A dish washing machine comprising a water receptacle, a horizontal shaft revolving in said receptacle, a series of narrow water projectors on said shaft constructed to deliver from the receptacle a series of parallel sheet-like sprays, and a dish basket adapted to hold dishes in groups and present them to the sprays with their surfaces substantially parallel to the planes of the sprays; said water projectors comprising circular disks revolving co-axially with the shaft, and blades upon the faces of said disks, the blades being alternately concaved and convexed to the direction of rotation.

1,339,811. VALVE-REGULATING MEANS. AUGUST C. DORRICK, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1919. Serial No. 300,372. 4 Claims. (Cl. 64—30.)



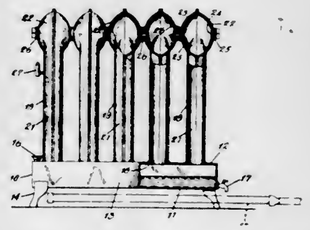
1. In an apparatus of the class described, the combination with a guide cylinder adapted to be secured in the dashboard of an automobile, of an adjusting rod sliding therein and provided with annular grooves thereon, a short coiled spring surrounding said rod and adapted to coöperate singly with any of said grooves, and means for confining the spring to prevent its movement with the rod while permitting expansion to allow the rod to be adjusted to and held in any of its positions of adjustment.

1,339,812. DENTAL-PLATE ATTACHMENT. ISRAEL J. DRESCH, Toledo, Ohio. Filed Mar. 26, 1920. Serial No. 369,034. 2 Claims. (Cl. 32—12.)



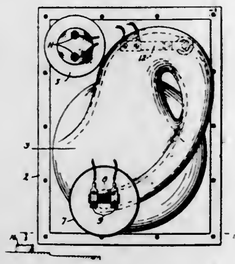
1. In a device of the described character, a member adapted for rigid connection with the side of a tooth-crown and being bent to form a projecting ledge, said ledge having therethrough an aperture, and a companion member which is bent at an angle and adapted at one end for limited slidable pivotal movement in said aperture, the other end of said member being adapted for rigid engagement with a dental plate.

1,339,813. RADIATOR. STEPHEN W. DUCKMAN, New York, N. Y. Filed Mar. 22, 1919. Serial No. 284,429. 1 Claim. (Cl. 237—17.)



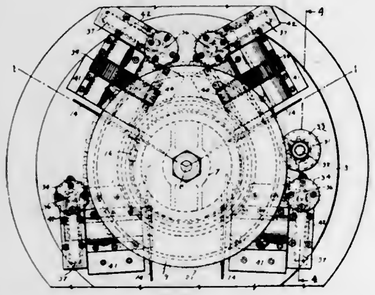
In a radiator, the combination with a vapor generating chamber, of a plurality of hollow heat radiating elements, each of substantially the shape of an inverted U and all of the elements protruding upwardly from the water chamber in spaced parallel arrangement, the interior of said elements communicating with the interior of the chamber and the bridging members of all of the elements being enlarged, each of said elements in entirety being composed of two corresponding halves of approximately semi-elliptic shapes in cross-section having their edges connected together, and interfitting annular flanges connecting the enlarged members of the elements together as well as providing communication between the interior of the enlarged members of all of the elements.

1,339,814. TELEPHONE SET. HENRY C. EGERTON, Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1918. Serial No. 214,130. 3 Claims. (Cl. 179—100.)



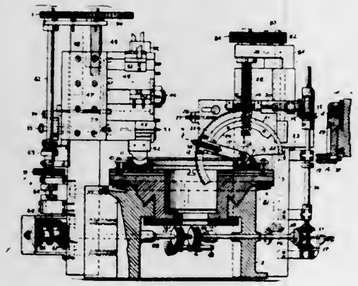
3. A telephone set comprising a receptacle, a cover, a coiled sound-conducting horn secured to said cover and substantially filling said receptacle, and a telephone instrument associated with said horn within the receptacle.

1,339,815. TIRE-CORE-SAWING MACHINE. JOHN C. FIDDYMENT, Akron, Ohio. Filed Sept. 21, 1918. Serial No. 255,160. 20 Claims. (Cl. 29—70.)



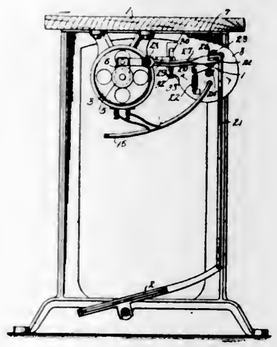
1. In a tire-core sawing machine, a multiple number of saws disposed about a common center, a movable support centrally situated relatively to said saws, and means adapted to secure an annular tire-core to said support at points intermediate the saws.

1,339,816. MACHINE FOR FINISHING TIRE-MOLDS. JOHN C. FIDDYMENT, Akron, Ohio. Filed Dec. 23, 1918. Serial No. 267,914. 24 Claims. (Cl. 29—29.)



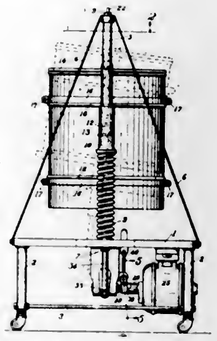
2. In a machine for finishing tire molds, a rotatable table, an arm swiveled at its lower end opposite said table, a tool holder adjustable longitudinally on said arm, a tool at the lower end of said arm, means to move said holder in an arc transversely of the tire mold, and automatic means adapted to shift the holder longitudinally in its arc movement.

1,339,817. MOTOR CONTROL FOR SEWING-MACHINES. WILLIAM FORSBERG, New York, N. Y., assignor of one-half to Marcus Forsberg, New York, N. Y. Filed July 25, 1917. Serial No. 182,638. 1 Claim. (Cl. 172—179.)



In a motor controlling device, the combination of a rheostat, a rockshaft passing longitudinally through said rheostat, an arm secured on one end of said shaft and having a contact member adapted to traverse the contacts of the rheostat, an arm secured intermediate its ends on the opposite end of the shaft, means at one end of said last arm for rocking the shaft and flexible means at the opposite end of said arm acting in opposition to said rocking means, a bracket rigidly connected to the rheostat, a lever pivoted intermediate its ends on said bracket and having a slot and pin connection at one end with the shaft-rocking arm and a brake device at its opposite end, and means for vertically adjusting the pivotal point of said lever.

1,339,818. WASHING-MACHINE. MARSHAL D. GIBSON, Webster Groves, Mo. Filed May 15, 1916. Serial No. 97,735. 5 Claims. (Cl. 259—72.)



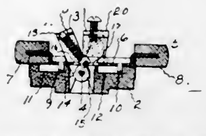
1. In a washing machine, a support, guides mounted on said support, a clothes and suds receiving casing, blocks mounted to slide vertically on said guides, trunnions connecting said casing for oscillation on said blocks, springs sustaining said blocks, a crank, and a rod connecting said casing and said crank, whereby the casing is operated for causing the suds to pass vertically and laterally back and forth through the clothes in the casing.

1,339,819. FENCEPOST. WILLIAM S. GRESHAM, Richland, Mo. Filed Nov. 3, 1917. Serial No. 200,063. 2 Claims. (Cl. 72—82.)



2. As a new article of manufacture, a fence post formed of plastic material, a substantially V-shaped reinforcing member embedded within the post, and a second substantially V-shaped reinforcing member embedded within the post and of a length less than the length of the first member, both of said members occupying the same plane, the lower ends of both of the members being substantially flush and provided with inwardly directed extensions arranged within the same plane as the reinforcing members, said post being provided with a series of longitudinally spaced openings arranged in a plane extending between the side portions of the reinforcing members and intersecting the apices thereof, the adjacent openings passing between the side portions of both of the reinforcing members being spaced apart a distance less than the distance between adjacent openings passing between the returned portions of the first named reinforcing member.

1,339,820. ELECTRIC SWITCH. MONROE GUETT, Hartford, Conn., assignor to the Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed July 15, 1919. Serial No. 310,933. 5 Claims. (Cl. 200—72.)



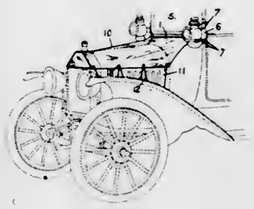
1. A switch comprising an actuator mounted for back and forth movement, an oscillatory switching member, a pin between the actuator and the switching member, having a pivotal connection with one and an operative connection with the other, a spring between the switching member and the pin, the actuator on each movement thereof being adapted to condition the spring to snap the switching member, and contacts engageable by the switching member, the range of movement of the point of connection between the actuator and said pin being greater on one side of the dead center line than on the other side of said line.

1,339,821. ARTIFICIAL TEETH. RUPERT E. HALL, Philadelphia, Pa. Filed Nov. 13, 1916. Serial No. 131,175. 3 Claims. (Cl. 32—4.)



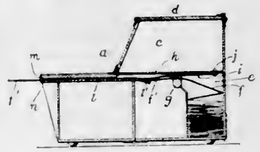
1. In combination, a plurality of teeth set in proper anatomical relation and a flexible temporary support for said teeth, to which they are firmly attached so as to be incapable of relative movement except as the support is bent, said support being adapted to be incorporated with and to become a part of the wax pattern for a dental plate and to be removed from the mold contemporaneously with the removal of the wax pattern.

1,339,822. AUTOMOBILE ATTACHMENT. EUGENE G. HANTZSCH, Omaha, Nebr. Filed Dec. 23, 1918. Serial No. 268,097. 2 Claims. (Cl. 180—69.)



1. An automobile attachment comprising an engagement plate, of uniform cross-section, adapted to be permanently held fast by and between the windshield and the windshield bracket of the vehicle and having its back edge turned upward and its front edge downward, a flexible cover adapted to engage the front margin of the plate, and a spring latch for joining and disjoining the plate and cover.

1,339,823. TICKET-DISPENSING DEVICE. PAUL C. HARBAUGH, Portland, Oreg. Filed Feb. 13, 1919. Serial No. 276,806. 1 Claim. (Cl. 211—37.)

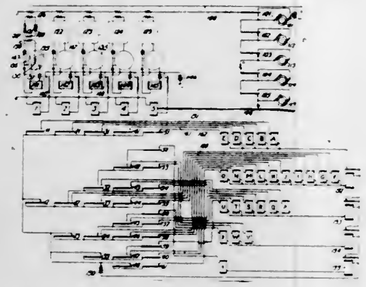


In a ticket dispensing device, a compartment for holding a ribbon of tickets, a bar secured to and depending from the top of the compartment and forming a guide over and on which the ribbon of tickets is to be drawn, a guideway over which the free end of the ticket ribbon is to be drawn, said guideway having an end in adjacent spaced relation to said bar and downwardly curved, and a resilient finger secured to the top of the compartment and projecting over said bar with its free end bearing on the ticket ribbon immediately above the downwardly curved portion of said guideway, whereby such ticket ribbon is maintained in a non-straight form between the guide bar and guideway.

1,339,824. TELEGRAPH SYSTEM. RAYMOND A. HEISING, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed May 12, 1915. Serial No. 27,527. 1 Claim. (Cl. 178—33.)

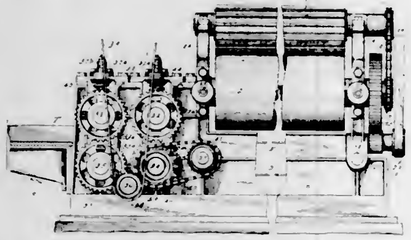
A system of communication comprising in combination with a line conductor, a plurality of constantly operating alternating current generators, each generator adapted to produce a frequency or range of frequencies different from that produced by any of the other generators, means for connecting said generators to said line in characteristic combinations, depending upon the signal to be transmitted, a receiving system connected to said conductor comprising a plurality of selective networks, each network having capacity and inductance so adjusted as to permit the passage of the current frequencies transmitted by a corresponding one of said generators, but to offer a

substantial limiting impedance to currents of other frequencies, a vacuum tube rectifier individual to each of said networks having its input circuit connected to said



network, an electromagnetic operation-controlling device in the output circuit of each of said amplifiers, and a printer selecting mechanism under the joint control of said operation-controlling devices.

1,339,825. MACHINE FOR EXTRACTING FIBER FROM YUCCA AND THE LIKE. HALL H. HOLDAWAY, Los Angeles, Calif., assignor to Desert Fibre Company, a Corporation of Nevada. Filed Mar. 17, 1919. Serial No. 283,267. 7 Claims. (Cl. 13—21.)

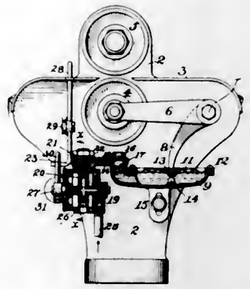


2. The method of separating the fiber from leaves of yucca and the like which consists of moving the leaves in single file into position for treatment, initially moving said leaves sidewise for cutting the fiber lengthwise of the leaves and finally moving said leaves endwise for cutting the fibers crosswise of the leaves.

5. In a machine of the character referred to, in combination, rollers arranged in pairs, one pair being arranged at right angles to another pair, said rollers having knurled surfaces, means for directing matter passed between one pair of rollers to another pair of rollers, and means for washing said matter as it is passed from one pair of rollers to another pair, substantially as described.

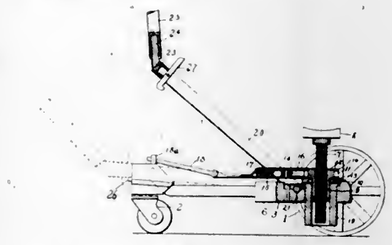
1,339,826. APPARATUS FOR FEEDING AND GUIDING CLOTH. RUDOLPH M. HUNTER, Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, a Corporation of Pennsylvania. Filed May 5, 1915. Serial No. 25,894. 5 Claims. (Cl. 26—18.)

4. In apparatus for feeding and guiding cloth to tentering and other machines, a pair of rolls between which the cloth passes, one of said rolls mounted for movement to and from the other, a liquid container having a flexible diaphragm wall arranged to operate the movable roll, said container having an upper chambered part into which the liquid extends above the level of the diaphragm wall and also to provide a gas or air space above the liquid, said container also provided with a laterally projecting arm containing an air or gas conduit opening from said space, a valve device for controlling the admission and escape of compressed air or gas through the conduit comprising a case having a neck portion extending through and clamped in position upon the arm and providing a port in alinement with the conduit whereby said valve



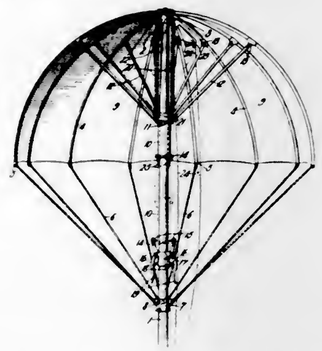
device is supported by the container, a movable valve piece arranged within the case and adapted to control the port thereof, and means controlled by the cloth passing between the rolls for operating the said valve piece.

1,339,827. ROLLING AUTOMOBILE-JACK. GEORGE H. LAW, Portland, Me. Filed Aug. 23, 1915. Serial No. 47,005. Renewed Oct. 25, 1919. Serial No. 333,374. 10 Claims. (Cl. 254—2.)



1. In a rolling jack, a wheeled carriage, a sleeve mounted for vertical movement in said carriage, a nut rotatably mounted in said sleeve, a lifting screw mounted in said nut, means for raising and lowering the sleeve, and means for rotating the nut to raise or lower the screw.

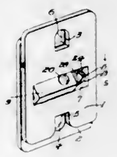
1,339,828. SAFETY DEVICE OR APPLIANCE FOR USE WITH AEROPLANES, AIRSHIPS, AND OTHER AIRCRAFT. ALFRED AMOS LEWIS, Melbourne, and FREDERICK O. DUTTON, Northcote, Victoria, Australia. Filed Oct. 12, 1918. Serial No. 257,899. 1 Claim. (Cl. 244—21.)



A safety device for aircraft comprising a mast, ribs pivotally secured to the upper end of said mast at one

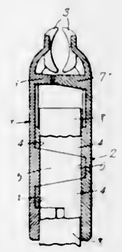
end and the opposite ends secured to the mast by cables, a sleeve slidable on the mast, struts pivotally connected to said sleeve at one end and at the opposite ends to the ribs, a spring coiled about the mast and confined between the connection of the ribs thereto and the sleeve and tensioned to normally urge the sleeve to position to move the struts and ribs to open position, a covering for the ribs, latches pivotally carried by the mast adapted to cooperate with the sleeve to hold the same in position with the struts and ribs in collapsed position, openings in the covering for the ribs, and flap valves operable to open and close said openings for the purpose specified.

1,339,829. FUSIBLE LINK AND STRUT. LEROY M. LEWIS, Philadelphia, Pa. Filed Apr. 24, 1919. Serial No. 292,409. 14 Claims. (Cl. 169—42.)



1. In a fusible link or strut comprising a pair of plates provided with socket portions, the combination of a flat key member located between said plates and in said socket portions and projections on said key member at the ends thereof projecting in staggered openings provided in said plates and out of contact with said plates but adapted to normally maintain said key in said socket portions.

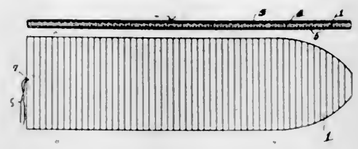
1,339,830. CLAMP. ANTON LINK, Chicago, Ill. Filed Aug. 6, 1919. Serial No. 315,781. 1 Claim. (Cl. 15—16.)



A device of the class described comprising a pair of members provided at their outer ends with gripping jaws adapted to receive a working head, and supplied adjacent to their inner ends with alternating axially alined rings of appreciable width measured longitudinally of the device and coöperating to form a continuous socket wherein a handle may be seated firmly, to hold said members against lateral separation, the members being provided, between the jaws on the one hand, and the rings on the other hand, with interengaging parts coöperating to aline the rings, and serving as a stop interposed between the handle and the head.

1,339,831. FOLDING PORTABLE IRONING-BOARD. LESLIE L. LOCKE, Washington, D. C. Filed Dec. 20, 1919. Serial No. 346,257. 2 Claims. (Cl. 68—10.)

1. A folding ironing board comprising a lower flexible layer of narrow transverse slats having contiguous side faces, a layer of felt secured to the upper faces of the slats and connecting the same together and permitting



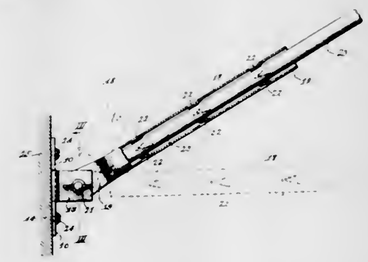
the slats to be rolled to compact form, and a covering of thin fabric secured to the upper face of the pad.

1,339,832. FISHING-TACKLE. ERNEST A. PFLUEGER and CHARLES T. PFLUEGER, Akron, Ohio, assignors to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 10, 1919. Serial No. 270,508. 6 Claims. (Cl. 43—45.)



1. Fishing tackle, comprising a spoon, a hook, means for anchoring the shank end of the hook to the spoon intermediate the ends of the spoon, and an additional securing device encircling the shank of the hook and removably secured to the spoon.

1,339,833. ADJUSTABLE FLAG-HOLDER. THOMAS W. SALTMARSH and HUGH F. GONZALEZ, Pensacola, Fla. Filed May 26, 1917. Serial No. 171,238. 1 Claim. (Cl. 248—37.)

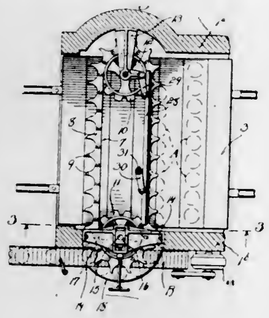


A flag staff holder or the like comprising a base consisting of an I-shaped thin flat section and a wing or flap integral with and bent up from each of the sides of the central portion of the I-shaped section and arranged separated from and parallel to each other in planes normal to the plane and between the laterally extended ends of the I-shaped section, an adjustable tubular member having one end interposed between the separated wings or flaps and its interior provided with struck up staff retaining or clamping tongues, and a bolt passing through the tubular member and flaps or wings adjustably clamping said wings or flaps and interposed end of the tubular member together.

1,339,834. BOTTLE-FEEDING MECHANISM FOR ANNEALING-OVENS. WILLIAM STENDER, Milwaukee, Wis. Filed June 4, 1918. Serial No. 238,128. 2 Claims. (Cl. 193—26.)

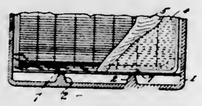
1. A conveyer comprising a flexible belt, a sheet of insulating metal disposed on one side of said belt, a plu-

rality of non-combustible plates disposed edge to edge on said sheet of insulating material, the outer edges of



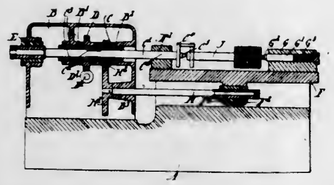
the plates being bent laterally and around the edges of the belt and sheet of insulating material, and secured thereto.

1,339,835. CELLULOID INSULATION. MEACHEM D. SWEET, Alliance, Ohio. Filed June 28, 1919. Serial No. 307,280. 2 Claims. (Cl. 204—29.)



2. In a battery, the combination with a jar provided with rests, of an insulator extending the width of the jar and having portions resting upon the top of the rests and overhanging the same, said insulator provided with openings in its bottom and with enlarged open ends, and a plate resting in the insulator and being of less length than the insulator.

1,339,836. LATHE OR LIKE MACHINE. PERCY VENABLES VERNON, Coventry, England. Filed No. 30, 1918. Serial No. 264,871. 3 Claims. (Cl. 82—5.)



1. In a lathe or grinding machine the combination with a head-stock, a tail-stock and a head-stock spindle, of a traveling front bearing for said spindle, a screw-threaded leader for said spindle, and a lead-screw operatively connected with the main driving mechanism, the arrangement being such that a uniform motion is imparted by said lead-screw to the said bearing in the direction of movement of the said spindle and at practically the same speed, thereby maintaining the same relative position of the work between the said bearing and the said tail-stock.

1,339,837. BED FOR MACHINE-TOOLS. PERCY VENABLES VERNON, Keresley, England. Filed July 1, 1919. Serial No. 308,013. 2 Claims. (Cl. 82—32.)

2. In a lathe, the combination of a bed, a plurality of guides thereon, a plurality of slides movable along said guides, extensions on said slides lying over said guides, a head-stock on said bed, channels on said head-stock to permit the passage therethrough of said exten-



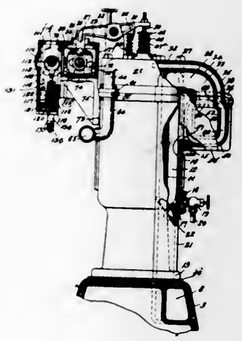
sions, and channels on each slide to permit the passage therethrough of the extensions on another slide, substantially as set forth.

1,339,838. LIGHT FOR VEHICLE-CURTAINS. DANIEL M. WINANS, Binghamton, N. Y., assignor to the Brewer-Titchener Corporation, Binghamton, N. Y., a Corporation of New York. Filed Oct. 4, 1919. Serial No. 328,501. 4 Claims. (Cl. 296—145.)



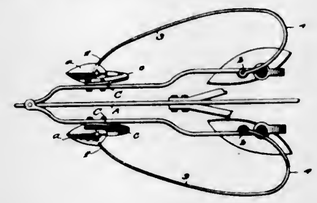
4. The combination of two stamped metal frames adapted to be disposed on opposite sides of a vehicle curtain for holding a transparent light therefor, the inner one of said frames having a turned up outer edge which telescopes with the outer frame, the outer frame having prongs extending from its outer marginal portion adapted to penetrate the curtain and to be turned down over said turned up edge of the inner frame for the purpose of clamping the two frames together with the curtain and pane held therebetween.

1,339,839. CAM-SHAFT STRUCTURE AND OILING MECHANISM FOR INTERNAL-COMBUSTION MOTORS. ALEXANDER WINTON, Lakewood, Ohio, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Sept. 26, 1914, Serial No. 863,704. Divided and this application filed June 17, 1916. Serial No. 104,315. 1 Claim. (Cl. 123—90.)



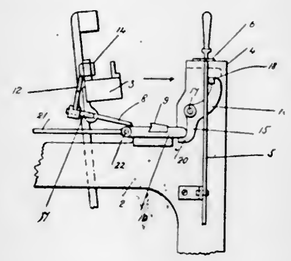
In an explosive engine, a plurality of cylinders, each having a cylinder head provided with an air inlet and an exhaust, an air inlet valve controlling the air inlet, an exhaust valve controlling the exhaust, and operating device for each of said valves, a cam shaft trough suitably mounted, cam shaft bearings arranged within said trough, a cam shaft mounted in said bearings, cams carried by said cam shaft for actuating said valve operating devices, a fuel pump housing carried by said trough and communicating therewith whereby the oil level in the trough is maintained in the fuel pump housing, and a fuel pump arranged within said housing below the oil level therein.

1,339,840. VINE-LIFTER. GEORGE W. AYRES, Pungoteague, Va. Filed July 3, 1919. Serial No. 308,595. 1 Claim. (Cl. 97—33.)



The combination with a cultivator, including a forward shovel holding bolt and rear bolt for holding a supporting bracket, of a vine lifter and turner made of bar metal, secured at its forward end to said forward bolt, from which the bar curves slightly upward and outward and thence continuing in a relatively straight portion which is directed upward and continued in a recurved portion which subtends in a plane at an acute angle to the axis of said straight portion and ending in a rear securing eye, secured at its upper portion to said bracket holding bolt, all arranged as shown.

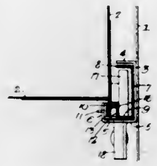
1,339,841. STOP MECHANISM FOR LOOMS. WILLIAM H. BAHAN, Jr., Union, S. C. Filed Jan. 30, 1920. Serial No. 355,039. 1 Claim. (Cl. 139—51.)



In a stop mechanism, a frame, a frog or slide-block mounted on the frame, a knock-off lever pivoted to the frame and having a supporting lug on its lower end portion which projects under the front end of the frog or slide block and prevents it from being moved downwardly, a dagger or bunter carried by the lay and arranged to operate the said frog or slide-block, and a shipper-lever controlled by the said knock-off lever.

1,339,842. CABINET. CONRAD BERGMANN, Philadelphia, Pa. Filed July 27, 1917. Serial No. 183,185. 2 Claims. (Cl. 45—77.)

1. In a cabinet, the combination of a drawer, bracket members carried by the cabinet for supporting said drawer; said bracket members having horizontally flanged portions underlying the side walls of the drawer, and flanged slide members interposed between the drawer and the bracket members with their bottom flanges resting on the bottom flanges of the bracket members and underlying the side walls of said drawer; said slide members being capable of limited longitudinal movement



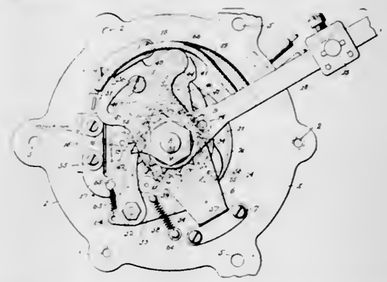
in said bracket members and the drawer being capable of longitudinal movement with respect to said slide members.

1,339,843. SPRING-GRIPPING DEVICE. HARRY BISHOP, Lyons, N. Y. Filed Dec. 6, 1919. Serial No. 343,099. 4 Claims. (Cl. 248—22.)



1. A device of the class described comprising a pair of fixed arms and a movable arm said fixed and movable arms presenting spring engaging devices spaced evenly from a common center, said movable arm being adapted to swing around the said center, and said fixed arms extending at an angle to one another.

1,339,844. ELECTROMECHANICAL SWITCH. WALTER J. BURCHETT, East Orange, N. J., assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J., a Corporation of New York. Filed May 28, 1919. Serial No. 300,365. 12 Claims. (Cl. 200—52.)

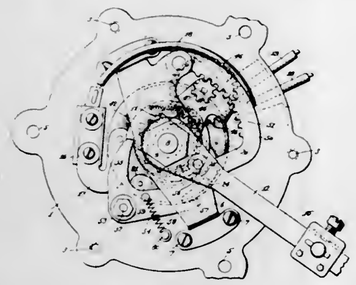


9. In a device of the character described, a rotary contact wheel having a contact surface therein, a circuit closer engaging said wheel normally upon the non-conducting portion thereof, a spring, means operated by the machine to be registered for winding said spring, and means automatically releasing said spring to permit it to exert its tension on said contact wheel to rotate the latter one complete rotation, thus sweeping its contact surface past said circuit closer.

1,339,845. ELECTROMECHANICAL SWITCH. WALTER J. BURCHETT, East Orange, N. J., assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J., a Corporation of New York. Filed May 28, 1919. Serial No. 300,366. 5 Claims. (Cl. 200—52.)

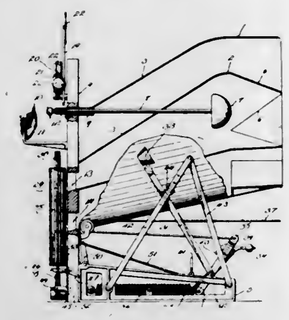
1. In a device of the character described, a lever adapted to be vibrated by the machine to be registered, a shaft carrying and operated by said lever, a contact

wheel, circuit closing contacts in engagement with said wheel normally upon its non-conducting portion, and



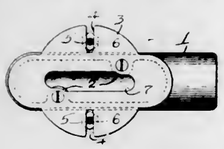
means intermediate said shaft and wheel for imparting a complete rotation to said wheel for each stroke in one direction of said lever.

1,339,846. BALL GAME. RICHARD F. DOWNEY, Milwaukee, Wis., assignor of one-half to Herman Schreier, Sheboygan, Wis. Filed Apr. 17, 1919. Serial No. 290,841. 12 Claims. (Cl. 124—15.)



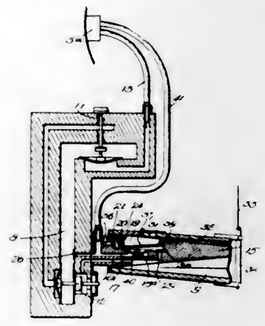
1. In a game apparatus, the combination with a target and a projectile, of a normally invisible score indicator, means for exposing said indicator, means operable by the projectile to hold the indicator in exposed position, a projectile return means, and means operated by the actuation of the return means to release the projectile and permit the return movement of the indicator to normal position.

1,339,847. ELECTRICAL APPLIANCE. WILLIAM A. HARVEY, Scranton, Pa. Filed Mar. 5, 1918. Serial No. 220,524. 4 Claims. (Cl. 247—20.)



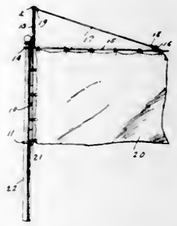
3. In a conduit fitting, the combination of an adapter for accommodating the fitting to electrical appliances having different sized base dimensions, said adapter comprising a plate adapted to engage the fitting, an opening in the plate registering with the opening in the fitting, an extension on each side of the plate projecting beyond the sides of the fitting, and means on said plate for attaching the electrical appliance.

1,339,848. PLAYER-PIANO-CONTROL APPARATUS. MONROE S. HOWARD, Waukon, Iowa. Filed May 15, 1916. Serial No. 97,614. 4 Claims. (Cl. 84—168.)



4. In a control device for controlling the striking pneumatics of player pianos, the combination with the striking pneumatic, of a damper pneumatic, a duct leading to the atmosphere, a valve arranged in the duct for controlling passage therethrough, a source of exhaust, a pressure chamber having an opening of fixed size communicating with the source of exhaust, a control pneumatic arranged in communication with the pressure chamber, connecting means between the control pneumatic and said valve for operating the latter as the control pneumatic is operated, communicating means between the pressure chamber and the atmosphere, and means for varying the size of last said communicating means whereby to acquire different pressures within the pressure chamber.

1,339,849. FLAG, PENNANT, OR BANNER FLOATING BRACKET. HERMAN JOHNSON and ALBERT D. C. WALKER, Marion, Ind. Filed June 20, 1919. Serial No. 305,493. 5 Claims. (Cl. 116—173.)

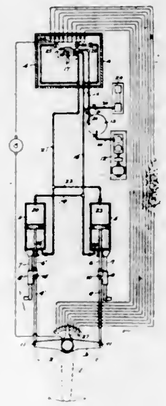


1. A device of the character described comprising a bracket formed from a single strand of wire, a securing element formed upon said body and the free end of said element being extended angularly with relation to said body, whereby the edge of the flag may be secured to said free end.

1,339,850. SHIP-STEERING APPARATUS. PETER A. JOHNSON, Portland, Oreg., assignor to Johnson-Fries Marine Construction Co., Portland, Oreg., a Corporation of Oregon. Filed Dec. 2, 1918. Serial No. 265,066. 4 Claims. (Cl. 114—150.)

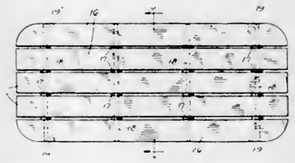
1. In a steering apparatus for vessels, the combination of, a rudder having a transverse tiller arm, with pneumatic steering mechanism, comprising therein port and starboard cylinders having pistons therein disposed forward of and with relation to the respective port and starboard ends of the tiller arm, intervening means to connect said pistons with the opposing ends of the tiller arm, a compressed air receiver, a valve having a controlling arm to open and close its ports, said valve having an

exhaust port and a desired number of other ports, a pipe extending from the receiver into the valve and positioned in relation to its ports, a two part pipe line system extending from each of said cylinders into the valve and positioned in relation to its ports, the receiver pipe and valve exhaust, said line system being constructed and arranged in a manner whereby compressed air may be admitted in a predetermined quantity from the receiver pipe through the valve into one part of the pipe line system



and thence into the forward part of one cylinder and the rear part of the opposing cylinder, and also in the reverse directions to that last described, in a manner to retain the pistons in desired stationary positions, also to allow air to be exhausted from one part of the pipe line system and admitted at the same time through the other in a manner to change the positions of the opposing pistons as desired, all by means of an operation of the valve arm, substantially as described.

1,339,851. COAL-BAG. HARRY JOSEPHSON, Bridgeport, Conn., assignor of one-half to Roderick C. McNeil, Bridgeport, Conn. Filed Nov. 7, 1919. Serial No. 336,451. 2 Claims. (Cl. 150—50.)



1. A coal bag the side walls of which are made of flexible material, and the bottom of which consists of spaced slats with spacing washers between them, said slats and washers being secured together by cross rods passing through both slats and washers and said washers being of such shape and dimensions as not to extend beyond the outer plane of the slats, whereby a smooth and unobstructed bottom is provided and draining of the contents is permitted.

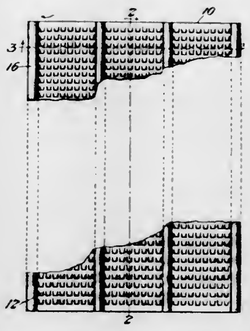
1,339,852. BAND-WHEEL CONSTRUCTION. HAROLD JAMES LOCKHART, Parkersburg, W. Va. Filed Aug. 8, 1919. Serial No. 316,097. 1 Claim. (Cl. 287—52.)

In a device of the character described, a pair of spaced flanges, a wheel arranged intermediate said flanges and secured thereto, said flanges and wheel having openings formed therein adapted to receive a shaft, alined keyways formed in said flanges connected with the shaft receiving openings thereof, each of the said flanges being provided with an opening alined with and directed toward the inner end of the keyway of the other of said flanges, said wheel being provided with an opening connecting the inner end of the keyway of each of said



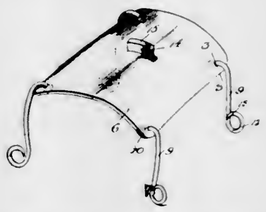
flanges with the inner end of the other of said flanges, whereby a tool may be inserted through the opening of one of said flanges to engage the inner end of a key seated in the keyway of the other of said flanges.

1,339,853. SEPARATOR FOR STORAGE-BATTERY PLATES. JOSEPH O. LUTHY, San Antonio, Tex. Filed Sept. 15, 1919. Serial No. 323,876. 5 Claims. (Cl. 204—29.)



3. A separator for secondary battery plates comprising a plate having a series of protruding hood-like members, the lower edge of each of which is cut away to form an opening through the plate.

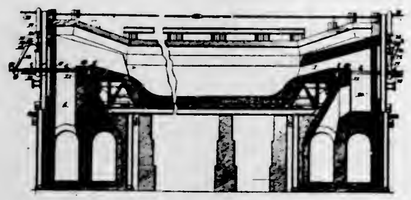
1,339,854. ANTISKID ATTACHMENT FOR VEHICLE-WHEELS. ALFRED MCCULLOUGH, Callery, Pa. Filed Feb. 21, 1919. Serial No. 278,390. 1 Claim. (Cl. 152—14.)



An anti-skid attachment for a wheel chain comprising a shoe for disposal against the outer surface of a tire, the shoe being provided at its opposite sides with openings, and anchoring links pivotally fitted at one end through the openings and having heads countersunk in

the openings and flush with the inner surface of the shoe, the links being provided at their other ends with means for engagement with the links of such a chain.

1,339,855. OPEN-HEARTH FURNACE. FRANK BAIRD MCKUNE, Hamilton, Ontario, Canada. Filed Oct. 27, 1919. Serial No. 333,756. 7 Claims. (Cl. 263—15.)



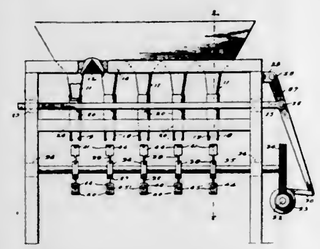
1. An open hearth furnace having a hearth, a gas port at each of the opposite ends, an air channel that connects with each gas port, a supplemental air channel at each end that discharges into the top of the furnace, damper controls for opening and closing the said supplemental air channels and means for supplying gas to the gas ports.

1,339,856. DOOR-SECURER. THOMAS C. MOORE, San Francisco, Calif. Filed Apr. 1, 1919. Serial No. 286,627. 2 Claims. (Cl. 292—296.)



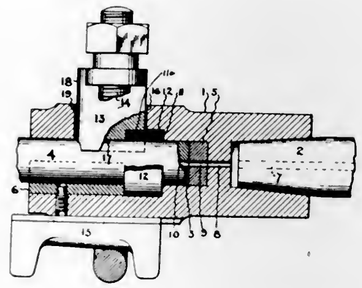
1. A detachable door locking device including a main locking plate having an angular bend at one end adapted to engage the lock mortise between the door edge and the casing and having notches or serrations on opposite edges of the opposite end, a plate having downturned guiding clasps slidable on the locking plate, and with downturned lugs to engage the notches of the main plate, a plate between the two having a limited sliding movement, an upturned end adapted to abut against the door when closed upon the locking plate, and a lever fulcrumed between lugs on the main slidable plate, said lever being mounted to swing in a plane normal to the surface of a main slidable plate so that its outer end will abut against the upturned end of the intermediate plate to retain said plate in contact with the door.

1,339,857. MACHINE FOR APPLYING MARKS TO ARTICLES. FRANKLIN GREAR NEAL, St. Louis, Mo. Filed May 12, 1919. Serial No. 296,667. 3 Claims. (Cl. 101—125.)



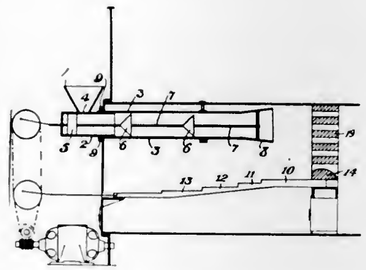
1. In a machine of the character described, a support, a receptacle connected with the support to receive the articles to be marked, an outlet tube connected with the receptacle to receive the articles therefrom, means to agitate the tube, means to receive and hold the article passing from the tube, and a movable marking element to contact with the article within the holding means to first apply the mark thereto and subsequently discharge the article from such holding means.

1,339,858. CONVEYING LIQUID TO ROCK-DRILLING TOOLS. WILLIAM EDWIN NETTLE, PAUL SELBY, JAMES BLYTH, and JOSEPH HENRY HOLMAN, Johannesburg, Transvaal, South Africa. Filed Apr. 25, 1919. Serial No. 292,660. 3 Claims. (Cl. 285—107.)



1. A rock drill chuck having a socket for the tool and an annular recess in said socket, a packing ring in said recess adapted to encircle a tool placed in the socket and common means to grip the tool and compress the packing ring.

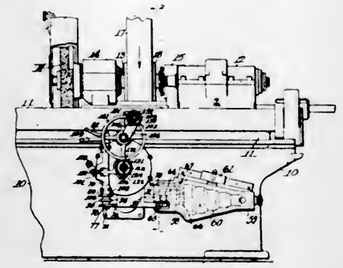
1,339,859. FURNACE. WILLIAM HERBERT NIELD, Stockport, England, assignor of one-half to William Melland, Manchester, England. Filed May 7, 1917. Serial No. 167,095. 1 Claim. (Cl. 110—32.)



In combination, a furnace, a coking chamber exposed on all sides to the heat therefrom and arranged to deliver fuel to the rear of the furnace, means for feeding fuel through said chamber, a grate formed to feed the fuel to the forward end of the furnace and means for simultaneously operating the fuel feeding means within the coking chamber and for moving the grate.

1,339,860. CROSS-FEED MECHANISM FOR GRINDING-MACHINES. CHARLES H. NORTON, ALBERT TURNER, and JOSEPH S. WILCOX, Jr., Worcester, Mass., assignors, by mesne assignments, to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 27, 1917. Serial No. 177,350. 31 Claims. (Cl. 51—4.)

1. A cross feed mechanism for grinding machines comprising a wheel carriage, a cross feed shaft having driving connection therewith, automatic means for rotating said feed shaft, and manually-operated devices effective



to control said automatic means, said automatic means constituting the sole feeding means for said wheel carriage, and being operable by power only.

1,339,861. SLEIGH-CARRIER. WADHAM LOCKE PADDON, Gosport, England. Filed Apr. 14, 1919. Serial No. 289,771. 2 Claims. (Cl. 280—61.)



1. A sleigh carrier including a U-shaped frame adapted to receive a runner, the terminals of said frame being turned at right angles and equipped with wheels, and a locking lever pivotally mounted in one side of the frame and detachably engaged with the opposite side of the frame, above the sled runner to secure the latter from displacement.

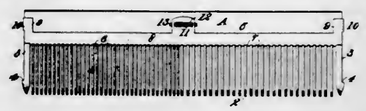
1,339,862. CYLINDRICAL STRUCTURE. TERRELL BROOKS PEARSON, Waco, Tex. Filed Feb. 24, 1917. Serial No. 150,723. 4 Claims. (Cl. 217—95.)



1. In a structure of the kind described, a substantially circular wall including staves, and a ring comprising a member of angle metal abutting one side of said wall, a hoop fixedly attached to the end portions of said member and extending around the other side of said wall, and means in said hoop whereby said member and hoop are contracted and expanded.

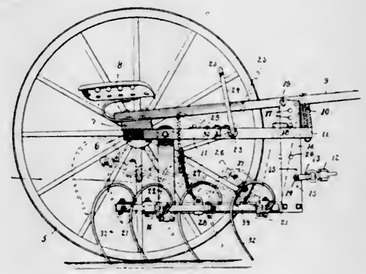
1,339,863. COMB-CLEANER. GEORGE RECHTER, San Francisco, Calif. Filed Apr. 30, 1919. Serial No. 293,728. 1 Claim. (Cl. 132—17.)

In a comb cleaner, in combination with a comb having a central and relatively short recess formed on each side of the back thereof, a pair of side plates, ribs connecting said plates and formed to extend between the teeth of the comb and a central relatively narrow and short spring clip on each side plate extending outwardly therefrom, said clips having transverse latch members



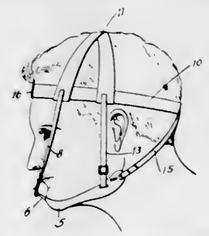
extending thereacross, the ends of the latch members being spaced from the sides of the clip, and the ends of the recesses extending but a short distance beyond each of the respective sides of the clips.

1,339,864. ONE-HORSE SULKY-CULTIVATOR. ARTHUR W. REYNOLDS, Newtown, Conn. Filed Aug. 21, 1919. Serial No. 318,875. 2 Claims. (Cl. 97—35.)



1. A sulky cultivator of the class described, comprising a main frame, a gang of cultivator teeth mounted on a central bar beneath the main frame, a hanger secured to the forward part of the gang of cultivator teeth and pivotedly and adjustably connected to the forward end portion of the main frame, depending guide members attached to the main frame, and inclosing the central bar for supporting the cultivator teeth, a crank arm mounted in the main frame for raising and lowering the rear portion of the gang of cultivator teeth, and a locking device pivoted to the main frame and adapted to engage the crank arm for supporting the arm in such raised position.

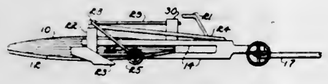
1,339,865. ANTI-MOUTH-BREATHING DEVICE. JOHN W. ROTHENBERGER, Syracuse, Ind. Filed May 29, 1919. Serial No. 300,574. 1 Claim. (Cl. 128—164.)



An anti-mouth breathing device comprising a chin plate adapted to receive the chin of the patient, said chin plate having a forwardly extending flange projecting outwardly from the chin, side bars extending rearwardly from the opposite ends of the plates and vertically disposed to lie close to the wearer's jaws, and means for retaining the plates in position and comprising a head band, a pair of transversely disposed straps connected to the head band at their extremities and at either side of

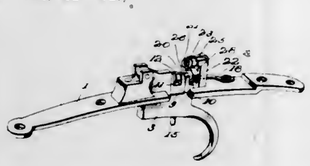
the head, a pair of forward supporting straps connected to the band adjacent to one of said transverse straps and to the flange, a pair of rear straps connected to the band and side bars in front of the ears, and divergent straps also connected to the bars at the ends thereof and to said band.

1,339,866. ROAD-GRADER. CHARLIE SPETH, Palmyra, Nebr. Filed July 24, 1919. Serial No. 313,068. 1 Claim. (Cl. 37—17.)



A road grader comprising an inclined rotatable disk, a forked draft beam straddling the disk and connected to the shaft, an axle connected with the beam at the under side of the disk and having a ground wheel upon which the higher side of the disk rests, a plow disposed to deliver dirt upon the disk and having a beam connected with said shaft, an adjustable gage wheel for the plow supported from the beam, an arm pivoted to the disk shaft and extending axially of the disk, and a blade carried by the arm in position to scrape dirt from the disk, the arm being adjustable angularly of the disk.

1,339,867. TRIGGER FOR DOUBLE-BARREL GUNS. DEWITT W. STRICKLAND, Tylertown, Miss., assignor of one-eighth to W. H. Brumfield, one-fourth to G. W. Summerall, and one-eighth to J. W. Sullivan, Tylertown, Miss. Filed Aug. 4, 1919. Serial No. 315,161. 4 Claims. (Cl. 42—42.)



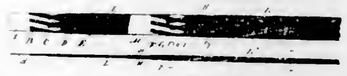
2. In a double-barrel gun, the combination of a trigger mounted for vertical movement, a rocking post carried by said trigger and provided with an upwardly tapered projection on its rear side, a fly mounted above the trigger and in rear of said post and provided on its under side with a tapered tooth arranged to be engaged by the projection on the post, the fly having grooves at the base of the tooth to be engaged by the end of the projection whereby the post and the fly will be successively shifted, and yieldable means for engaging the fly and holding it in a set position.

1,339,868. TIRE HAVING A RESERVE OF EXPANSIBILITY. LAWRENCE A. SUBERS, Lakewood, Ohio. Filed Dec. 8, 1916. Serial No. 135,801. 2 Claims. (Cl. 152—13.)



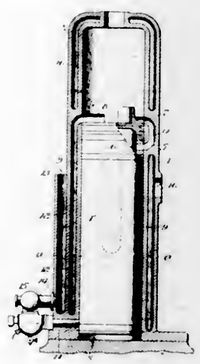
1. A pneumatic tire or casing, comprising a body of normal diameter formed of laminated cohering series of diagonally laid parallel bands of yarn elements, said body having annular depressed zones or grooves formed in the bands, and a tread layer of normal diameter secured thereto and inclosing said annular depressed zones, and annular reinforcing fabric strips embedded in said tread layers and overlying said annular depressed portions.

1,339,869. LAMINATED COHESIVE INTERWOUND FABRIC BAND. LAWRENCE A. SUBERS, Lakewood, Ohio. Filed Dec. 8, 1916. Serial No. 135,802. Renewed Oct. 24, 1919. Serial No. 333,110. 1 Claim. (Cl. 28—5.)



A fabric band including a central axial band shaped core in which vulcanizable material is incorporated, a layer thereon inclosing the same formed of laminated spaced parallel series of fibrous bands cohering in a vulcanizable material, and an outer layer of laminated cohering spaced parallel bands superimposed upon the first named series, and a flattened member in which vulcanizable material is incorporated, interposed between said outer and inner layers.

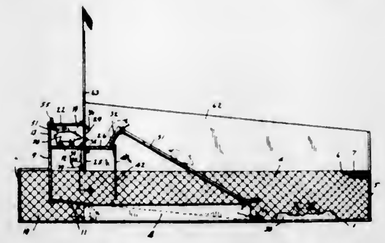
1,339,870. INTERNAL-COMBUSTION ENGINE. JOHN S. TAYLOR, Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America, a Corporation of Delaware. Filed Apr. 24, 1913, Serial No. 763,466. Renewed Aug. 22, 1918. Serial No. 251,008. 3 Claims. (Cl. 123—74.)



1. An internal combustion engine having in combination a compression chamber; a combustion chamber; a carbureter connected with the compression chamber; an air intake communicating at one end with the atmosphere and at the other end with the carbureter; a piston; means for transferring the fuel charge from the compression chamber to the explosion chamber, and an exhaust chamber substantially and directly surrounding the compression chamber, the duct of the air intake being positioned immediately adjacent the outer wall of the exhaust chamber whereby the air entering the intake is heated during its passage through the intake and delivered into the carbureter in a heated condition.

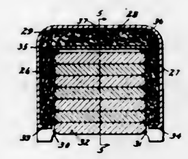
1,339,871. AMUSEMENT DEVICE. JOHN VAN CAMP, Long Beach, Calif., assignor of one-half to John E. Owen, of Venice, Calif. Filed Apr. 21, 1919. Serial No. 291,731. 4 Claims. (Cl. 46—59.)

3. In an amusement device, an inclosure, a home for a plurality of animals, a pen separate from said home, an entrance door to said pen through which animals are placed into the pen, an exit door in said pen leading to said inclosure, a target, and means actuated by said tar-



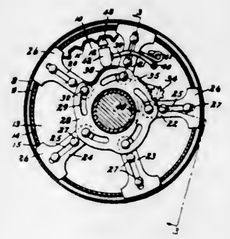
get for releasing said exit door to allow the animal to escape from the pen into said inclosure when the target is hit, and a conduit leading from said inclosure into said home.

1,339,872. LEAF-SPRING OILER. WILLIAM M. WHITE and ANTHONY GAUSLIN, Trona, Calif. Filed June 17, 1919. Serial No. 304,938. 4 Claims. (Cl. 184—1.)



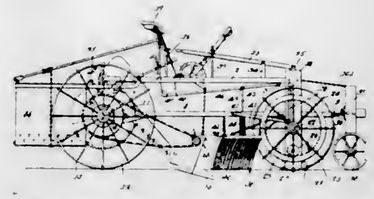
3. A leaf spring oiler comprising a U-shaped frame of channel iron adapted to be inserted downwardly straddle of a leaf spring and forming a chamber opening inwardly to the edges of the leaves, wicking in the chamber and adapted to bear against opposite edges of the leaves, and a pressure member loosely mounted in the transverse head of the frame and by which the wicking is compressed at the upper part so as to feed oil gradually to the leaves, the web of the channel turned in to support the wicking and retain the lubricant on the ends thereof.

1,339,873. AUDIBLE THEFT-ALARM SIGNAL FOR AUTOMOBILES. EARL B. WILLIAMS, Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 291,744. 7 Claims. (Cl. 116—33.)



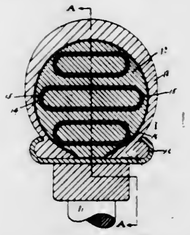
7. A theft alarm for vehicles including a casing attachable to the axle of the vehicle, a casing attachable to a wheel on the vehicle axle, interlocking means for said casings for preventing relative axial movement of said casings, but allowing rotation of the casing attached to the wheel with relation to the casing attached to the axle; means carried by casing structure for giving an audible alarm upon rotation of the wheel and a lock controlling said interlocking means and said audible alarm means.

1,339,874. BEET-MACHINE. JOSEPH WOLNY, Carneyville, Wyo. Filed Jan. 19, 1918. Serial No. 212,675. 6 Claims. (Cl. 55—107.)



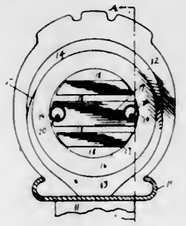
1. In a device of the class described, a main frame; ground wheels journaled on the rear end of the main frame; a vertical auxiliary frame on the forward end of the main frame and including a bottom portion forming a foot; a rotary topper journaled on the auxiliary frame cooperating with the foot; ground wheels journaled on the auxiliary frame; and means for operatively connecting one of the ground wheels with the topper.

1,339,875. CORE FOR TIRE-CASINGS. FRED L. BAILEY and JOHN H. LA GRANT, Wichita, Kans. Filed Aug. 18, 1919. Serial No. 318,317. 3 Claims. (Cl. 152—5.)



1. A core for tire casings comprising a longitudinally extending resilient unit containing a plurality of transversely disposed bands, arranged in parallelism and separated from one another by central resilient portions of said unit, each band comprising a fabric covered metallic spring element.

1,339,876. RESILIENT CORE FOR TIRE-CASINGS. FRED L. BAILEY and JOHN H. LA GRANT, Wichita, Kans. Filed Aug. 18, 1919. Serial No. 318,318. 2 Claims. (Cl. 152—5.)



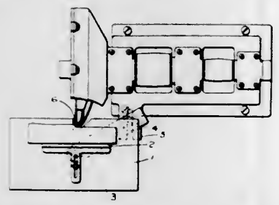
1. A resilient core for tire casings including a central longitudinally extending elastic element having a plurality of parallel layers of fabric, spaced apart and embedded therein, a pair of coiled wire conduits longitudinally extending within said elastic element, a wire tie within each of said conduits, a cylindrical elastic element enveloping said central element; an inner resilient covering element enveloping the inner side of said cylindrical element and an outer resilient covering element capping the outer side of said cylindrical element and the side edges of said inner covering element.

1,339,877. ARBOR. FRANCIS J. BALDWIN, Canton, Ohio. Filed Mar. 30, 1918. Serial No. 225,717. 1 Claim. (Cl. 82—44.)



An arbor having a threaded section and an integral tapering enlargement merging into the periphery of the arbor in spaced relation to the threaded section, a longitudinally adjustable conical work clamping member loosely engaged on the threaded section of the arbor, a washer plate loose upon the arbor and engaged against one end of said clamping member, a nut threaded upon the arbor to coact with said washer and urge the clamping member in operative engagement with a work piece and rigidly clamp the work piece between the clamping member and the enlargement on the arbor, and a plurality of set screws threaded in said nut for binding engagement with the washer to hold the nut and washer against relative rotation upon the arbor and clamp the washer plate against the end of said work clamping member.

1,339,878. EDGE-TRIMMING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed July 24, 1915. Serial No. 41,643. 15 Claims. (Cl. 164—64.)



1. An edge-trimming machine, having, in combination, a cylindrical edge-trimming cutter, and mechanical means operating upon the string of waste passing into the interior of the cutter for preventing the heating of the cutter to a temperature sufficient to burn the trimmed edge of the work, substantially as described.

2. In a machine of the class described the combination with means for trimming the edge of the work, of additional means for forming a cut in the edge of that part of the work which forms the string of lesser depth than the trimming cut, substantially as described.

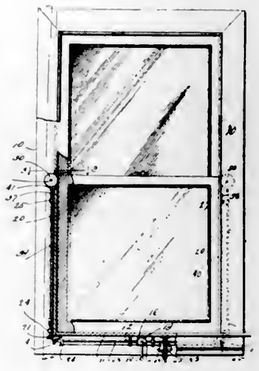
3. In a machine of the class described the combination with means for trimming the edge of the work, of additional means for slashing the work from the edge of the work to a line parallel with the trimming cut, substantially as described.

4. In a machine of the class described the combination with a cylindrical knife for trimming the edge of the work, of a fly cutter for forming a cut in the edge of the work of lesser depth than the trimming cut, substantially as described.

5. In a machine of the class described the combination with means for trimming the edge of the work, of additional means for simultaneously feeding the work and forming a cut in the work from the edge of the work to a line parallel with the trimming cut, substantially as described.

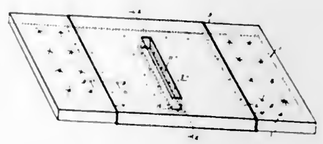
1,339,879. WINDOW-SASH OPERATOR. VALENTINE CIMA, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,136. 1 Claim. (Cl. 268—4.)

The combination with the frame and sashes of a window, the sashes having racks on their inner vertical edge faces, of horizontal shafts mounted in the side portions of the frame adjacent the meeting point of the sashes, pinions on the said shafts engaging with the racks of the sashes, driven pinions on the said shafts and movable with the said first pinions, vertical shafts in the sides of the frame, pinions on the ends of the shafts, the pinions on the upper ends of the vertical shafts being shiftable



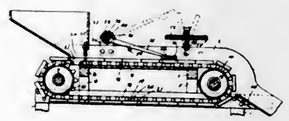
to and between the driven pinions, a drive shaft mounted in the frame of the window and operatively connected with the vertical shafts, and detents for selective engagement with the rack engaging pinions and shiftable with the shiftable pinions.

1,339,880. SANITARY MATTRESS. CLARENCE S. COOPER, Hondo, Calif. Filed Sept. 25, 1919. Serial No. 326,302. 2 Claims. (Cl. 5—13.)



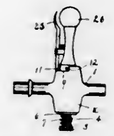
1. A sanitary mattress including a mattress body formed with an elongated transverse opening therethrough, a waterproof tubular cover telescoped over the mattress body and formed with a transverse tube depending from the upper wall of said cover through said opening and forming a lining therefor.

1,339,881. NUT-MARKING MACHINE. JOSE DE BARROS, Imperial, Calif. Filed May 16, 1919. Serial No. 297,641. 3 Claims. (Cl. 101—44.)



3. In a nut marker, in combination, means for carrying the nuts to be marked, a pivotally mounted marking arm, a marker positioned at the end of the arm, and a pivotally mounted inking pad adapted and positioned to be struck by and feed ink to the marker of the marking arm as the arm descends to imprint the mark of the marker on the nuts.

1,339,882. GAS-COCK. GEORGE H. HARRIS, Utica, N. Y., assignor to Utica Valve and Fixture Company, Utica, N. Y., a Corporation of New York. Filed Dec. 31, 1917. Serial No. 209,774. 3 Claims. (Cl. 251—99.)



1. In a gas cock, a casing having an orifice for the disposition of a key, a detachable ring having brackets, a pawl pivotally supported by said brackets, an arm having a cup shaped member attached to said ring, a handle disposed at right angles to said key, and a rod for holding said handle and cup shaped member in assembled position.

1,339,883. PRIMING-CUP. WILLIAM W. HARRIS, Detroit, Mich. Filed Jan. 12, 1918. Serial No. 211,652. 23 Claims. (Cl. 123—187.5.)



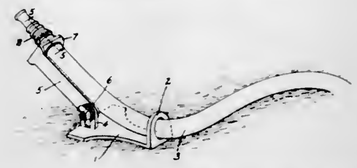
1. A priming cup for gas engines, comprising a body shell constructed interiorly to provide a fluid receiving chamber, said body shell being constructed at its top to provide a fluid receiving opening, said body shell being further constructed at its bottom to provide a coöperating discharge opening, two substantially accurately interthreaded members, means for loosely retaining the said threaded members within said body shell, said retaining means being open to provide for fluid passage therethrough and means on one of said members forming a closure for said discharge opening.

1,339,884. PRIMING-CUP. WILLIAM W. HARRIS, Pontiac, Mich. Original application filed Jan. 12, 1918, Serial No. 211,652. Divided and this application filed Oct. 25, 1918, Serial No. 259,610. Renewed Aug. 30, 1919. Serial No. 320,821. 7 Claims. (Cl 123—187.5.)



1. A priming cup for gas engines comprising a body shell having a fluid receiving chamber and a valve-seating opening with a passage therebetween, said shell further having one or more openings, an internally threaded member, one or more lugs on said member and extending into said one or more openings for retaining said member within said shell, an externally threaded spindle in substantially accurately threaded relation with said internally threaded member, said spindle projecting through said valve-seating opening, means disposed on said spindle forming a valve closure for said valve-seating opening and means for mounting said internally threaded member and said externally threaded spindle to provide lateral movement relative to said body shell to an extent sufficient to effect perfect alinement of said valve closure means with said valve-seating opening when said spindle is moved to closing position.

1,339,885. NOZZLE-HOLDER. MICHAEL HAVEY, Los Angeles, Calif. Filed Aug. 18, 1919. Serial No. 318,387. 2 Claims. (Cl. 248—29.)



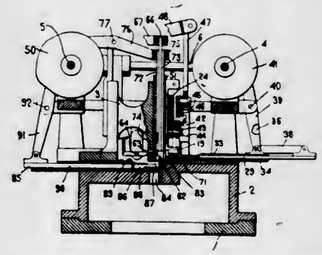
1. An adjustable nozzle holder including a T-shaped base plate, the end of the longitudinal arm of said plate extending upwardly and provided with an opening to receive a hose; a lug extending vertically upwardly from the other end of the plate at right angles to said upwardly extending end; an arm pivotally mounted on said lug adapted to extend upwardly and outwardly, the outer end of said arm being bent laterally at right angles thereto and provided with an opening, through which opening the hose nozzle is extended and in which said nozzle is held; and means for holding the arm on the lug in various angular positions.

1,339,886. PROTECTOR FOR PROPELLER-BLADES. SPENCER HEATH, Baltimore, Md. Filed Sept. 18, 1918. Serial No. 254,692. 10 Claims. (Cl. 170—159.)



3. The combination with a flexible propeller blade, of an edge protector therefor comprising a series of sections of sheet material covering the blade edge and face portions adjacent thereto, the end portion of each section overlapping the end portion of the adjacent section toward the end of the blade.

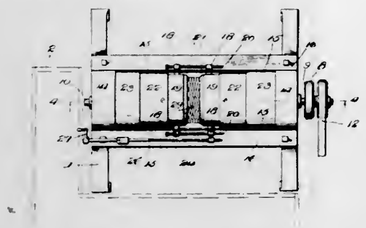
1,339,887. PIN-TICKET MACHINE. HERMAN HEINE, Brooklyn, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Dec. 9, 1913. Serial No. 805,632. 27 Claims. (Cl. 93—88.)



26. In a machine of the character described, staple forming mechanism comprising a die, a plunger to cooperate therewith, means to deliver definite lengths of wire, means to fold the ends of the wire double and means

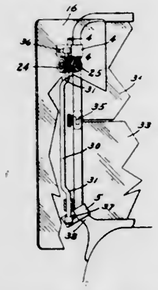
to operate said plunger to fold said wire to U-shape and to cause said plunger to deliver the staples in a definite position.

1,339,888. BOBBIN-CLEANING MACHINE. CHARLES L. HICKS, Easley, S. C. Filed Aug. 21, 1919. Serial No. 318,916. 3 Claims. (Cl. 19—15.)



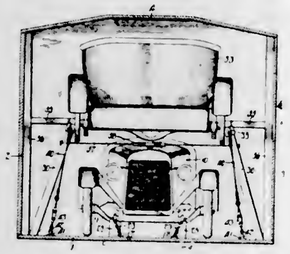
1. A machine for the purpose set forth comprising a rotatable cleaning member, a casing inclosing said cleaning member and comprising spaced gage plates, means for adjusting said gage plates toward or from each other, and means for shifting the gage plates longitudinally of the cleaning member while in a set spaced relation to each other.

1,339,889. AUXILIARY WINDSHIELD. ERNEST C. HILLMAN, Los Angeles, Calif. Filed May 5, 1919. Serial No. 294,952. 1 Claim. (Cl. 296—84.)



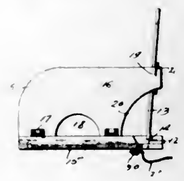
An auxiliary wind-shield comprising the combination with the side bar of a main wind-shield, of a pivot rod, heads on the pivot rod, clamping members fitting against the heads and adapted to engage the side bar, clamping screws inserted through the clamping members into the heads, clamping brackets adjustably mounted upon the pivot rod, and a glass carried by the clamping brackets.

1,339,890. VEHICLE-SHIPPING APPARATUS. RALPH Z. HOPKINS, Detroit, Mich. Filed June 23, 1919. Serial No. 305,953. 18 Claims. (Cl. 105—368.)



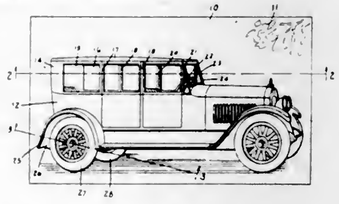
1. Means for supporting a vehicle axle construction having wheel spindles, said means comprising a pair of struts whereon the weight from a pair of said spindles is carried, and tension elements attached to the upper portions of said struts and diverging downwardly and inwardly therefrom both forwardly and rearwardly in respect to the corresponding strut.

1,339,891. NURSERY-SEAT. ALBERT A. HOWE, Terrill, Iowa. Filed Aug. 18, 1919. Serial No. 318,363. 4 Claims. (Cl. 155—31.)



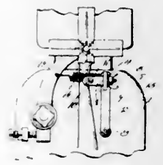
1. A folding seat structure comprising a bottom, a back hinged to the bottom, said back having an opening therethrough, arms hinged at the sides of the bottom, means for fastening the parts when opened up, and a strap connecting the arms and adapted to extend through said opening to form a handle when the parts are folded.

1,339,892. PROCESS OF SECURING DEPTH AND RELIEF FOR COMMERCIAL ADVERTISING. HERBERT R. HYMAN, Indianapolis, Ind., and TURNER B. MESSICK, Toledo, Ohio. Filed Sept. 6, 1919. Serial No. 322,090. 2 Claims. (Cl. 41—38.)



1. The process of forming depth of relief in a figure for a work of art, consisting of forming a single sheet of a plurality of independent layers of cardboard, securing said layers to each other by means of an adherent medium adaptable for removing from the surface thereof without leaving a residue, producing the figure on the surface of said sheet, and cutting away portions of said layers to produce the natural depth of relief in said figure.

1,339,893. FAN-BELT RETAINING AND TIGHTENING DEVICE. CHARLES JOHNSON, Bedford, Ind., assignor of one-half to Walter Crawford, Bedford, Ind. Filed Aug. 30, 1919. Serial No. 320,853. 2 Claims. (Cl. 64—5.)



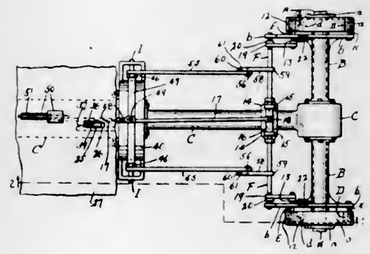
1. The combination with a fan belt of an automobile engine, of an arm pivotally mounted upon the engine casing and having at one end a plate, said plate having an elongated slot, a U-shaped frame, means carried thereby engaging said slot for adjustably mounting the frame on the plate, whereby the frame may be adjusted toward and from the engine casing, said frame straddling one side of the fan belt, a roller journaled in said frame, and means connected to the arm and in turn to the fan belt shaft supporting bracket for tensioning the arm, whereby the roller may bear upon and keep the belt tight.

1,339,894. BRUSH. THOMAS W. JOHNSON, North Attleboro, Mass. Filed July 9, 1917. Serial No. 179,296. 4 Claims. (Cl. 15—37.)



1. An improved brush-unit comprising a series of bristles bent double and assembled in alinement, with a flexible metallic strip folded around the looped ends of the bristles and having marginal edges inturned to bind thereagainst, said strip being perforated with a series of slits extending along its folded portion to adapt it to be bent in circular form.

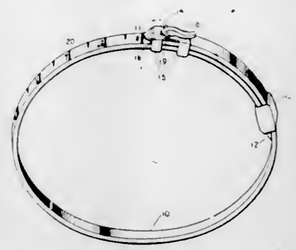
1,339,895. BRAKE MECHANISM FOR AUTOMOBILES. HENRY JOSEPHSON, Cleveland, Ohio. Filed Aug. 11, 1917. Serial No. 185,650. 2 Claims. (Cl. 188—18.)



1. The combination, with a rotary member of an automobile, a brake-shoe for braking said member, and a rock-shaft arranged transversely of the vehicle and having an arm provided with a slot arranged longitudinally of the vehicle, said rock-shaft being operatively connected with said brake-shoe, of an endwise movable rod arranged longitudinally of the vehicle and extending adjacent said arm and having a pin which extends into said slot, and a screw which is threaded into said arm at the forward end of and arranged in line endwise with and extends into said slot and forms a rearwardly facing abutment for said pin.

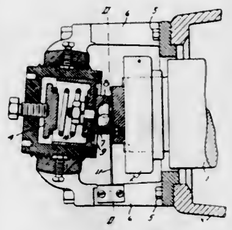
2. The combination, with a rotary member of an automobile, a brake-shoe for braking said rotary member, a rock-shaft arranged transversely of the vehicle and operatively connected with said brake-shoe, and an endwise movable rod arranged longitudinally of the vehicle and operatively connected with said shaft, of a lever arranged adjacent the forward end of and spaced from said rod and a link operatively connected with said rod and pivotally connected to the lever and arranged to swing forwardly independently of the lever, said lever and said link having surfaces arranged to coöperate in preventing rearward swinging of the link independently of the lever.

1,339,896. BRACELET-GAGE. CHARLES H. KEMPER, Oakland, Calif. Filed Nov. 30, 1917. Serial No. 204,560. 1 Claim. (Cl. 33—178.)



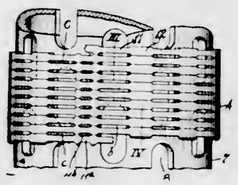
A measuring device of the character described comprising a band having overlapping ends, a guide member attached to one of said ends and having loop-like guide portions and a top plate and a cam lever pivoted to said top plate, the top plate and contiguous portion of the end to which said guide is attached having registering slots to receive said cam lever.

1,339,897. SHAFT-OSCILLATOR. JAMES R. KENNEY, Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 7, 1917. Serial No. 190,440. 4 Claims. (Cl. 171—317.)



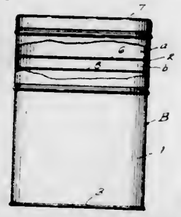
1. A shaft-oscillating device comprising a shaft, an oscillator ball, an oscillator ball race and damping means for preventing movement of said ball in synchronism with said shaft.

1,339,898. WELL-SCREEN. MAHLON E. LAYNE, Memphis, Tenn. Filed Mar. 17, 1917. Serial No. 155,401. 7 Claims. (Cl. 166—8.)



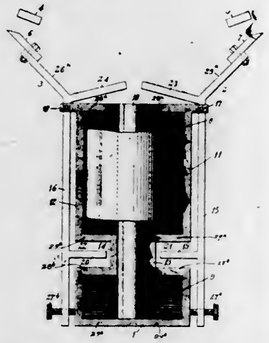
1. In a well screen, the combination of a casing having a plurality of rows of perforations extending longitudinally thereof, a screening wire wrapped thereon having alternate thick and thin portions so spaced that the thick portions aline and come opposite the metal between the rows of perforations, while the thin portions aline over the rows of perforations to provide circulating channels, there being solder placed in the circulating channels which come opposite the metal between perforations of a row.

1,339,899. RECEPTACLE. JOSEPH E. LE CERF, Raymond, Wash., assignor of one-half to Alexander C. King, San Diego, Calif. Filed June 29, 1918. Serial No. 242,551. 2 Claims. (Cl. 206—38.)



1. A receptacle of the class described comprising in combination, a hollow body divided transversely into two sections, said sections being hingedly connected, the outer end of one of the sections being closed and the opposite ends of the second sections being open, a partition intersecting the second section substantially at its center and affording an inner compartment and an outer compartment, a cover coacting with the open face of the outer compartment, and a rod intersecting the inner compartment, said rod extending longitudinally of the partition.

1,339,900. ELECTROMAGNET APPARATUS. HARRY A. LEWIS, Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 22, 1911. Serial No. 628,733. 28 Claims. (Cl. 200—94.)



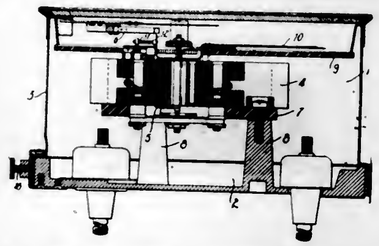
1. An electromagnet comprising a stationary magnetizable member, a movable magnetizable member, and two coils for energizing said members with magnetism of the same polarity, said magnetism having a normal flux path that tends to produce relative movement between said members and a leakage flux path that tends to prevent relative movement between said members.

1,339,901. ATTACHMENT FOR SLICING-MACHINES. JOSEPH H. MCLAUGHLIN, Chicago, Ill. Filed Sept. 15, 1919. Serial No. 323,943. 6 Claims. (Cl. 17—14.)



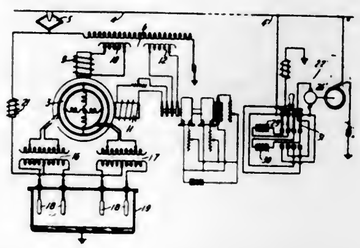
1. A supporting platform having projections thereon for engaging material, and a removable cover plate for said platform having the material-engaging portion thereof free from projections, to permit easy cleaning of said plate when removed from said platform.

1,339,902. ELECTRICAL DEVICE. PAUL MACGAHAN, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 25, 1914. Serial No. 840,726. 3 Claims. (Cl. 175—321.)



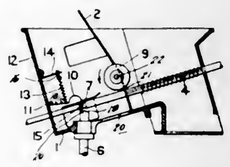
1. In a contact-making device, the combination with a casing, a relatively movable cover therefor and an electro-responsive device disposed in the casing, of a contact member mounted on the cover of the casing, a coöperating contact member actuated by the electro-responsive device, and means for securing the cover of the casing in predetermined positions with respect to the casing.

1,339,903. REGENERATING SYSTEM. FRIEDRICH W. MEYER, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 24, 1915. Serial No. 16,677. 21 Claims. (Cl. 171—97.)



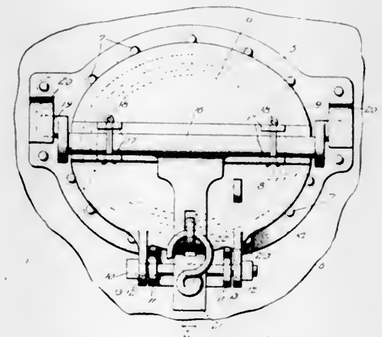
11. The method of operating induction motors which comprises energizing the primary member of said motor from a line and returning the secondary energy of said motor to said line as current of different form from that derived therefrom.

1,339,904. AUTOMATIC CORKING-MACHINE. HERMANUS GERARDUS MONKHORST, Delft, Netherlands. Filed June 28, 1919. Serial No. 307,357. 5 Claims. (Cl. 193—1.)



1. In a device of the character referred to, the combination with a container and a substantially vertical feed tube, of two inclined shafts mounted in parallel relation side by side in the container and rotatable in opposite directions with their sides facing each other moving upward, each shaft being provided at its lower end outside the container with an annular recess substantially in line with the axis of the said tube.

1,339,905. TANK HAND-HOLE AND COVER. ARTHUR F. O'CONNOR, Chicago, Ill., assignor to The Union Railway Equipment Co., Chicago, Ill., a Corporation of South Dakota. Filed Apr. 20, 1918. Serial No. 229,726. 8 Claims. (Cl. 220—57.)

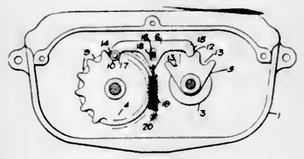


2. A hand-hole cover for tanks comprising a base having a hand-hole, a gate slidably and pivotally supported by the base for closing the hand-hole, a pair of lugs on the base, and a lever pivotally carried by the gate and having eccentrically disposed lugs coöperable with the base lugs for locking the gate and base and locking means for said lever carried by said gate.

3. A hand-hole cover for tanks comprising a base element having a hand-hole, a shaft carried by the base element, a gate element slidably and pivotally mounted on the shaft for closing the hand-holes, a pair of lugs on one element, and a lever pivotally carried by the other element and having eccentrically disposed lugs coöperable directly with the other lugs for locking the gate and base.

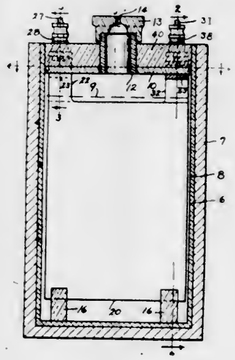
4. A hand-hole cover for tanks comprising a base element having a hand-hole, a gate element pivotally connected to the base by a floating pivot for closing the hand-hole, a pair of lugs on one element, and a lever pivotally carried by the other element and slidable transversely thereon and having eccentrically disposed lugs coöperable with the other lugs for locking the gate and base.

1,339,906. CONTROL APPARATUS. THOMAS S. PUKERUD, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 6, 1916. Serial No. 101,966. 12 Claims. (Cl. 200—17.)



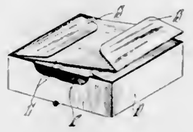
4. In a controller, the combination with a plurality of notched rotatable members, of a single loosely intermediately mounted pawl engaging said members to accentuate the positions thereof and to interlock the said members against simultaneous movement, and a spring acting directly upon the mounting-point.

1,339,907. ELECTROLYTIC ALTERNATING-CURRENT CHEMICAL RECTIFIER. LEONARD E. SEELEY, Wellington, Ohio, assignor of one-half to Thomas F. Calley, Wellington, Ohio. Filed June 23, 1919. Serial No. 306,023. 8 Claims. (Cl. 175—318.)



1. In an alternating-current chemical rectifier, a receptacle having an electrolyte-receiving chamber, a substantially horizontal insulating diaphragm arranged internally of the upper end portion of and loosely fitting said receptacle and forming the top wall of said chamber, and an electrode which comprises a plate arranged and supported in said chamber and having a seat for said diaphragm and provided with a member extending through and above the diaphragm for electrically connecting the plate to a conducting wire externally of said chamber, the receptacle being hermetically sealed at the outer side of the diaphragm.

1,339,908. STATIONERY PACKAGE. HERBERT R. THORPE, Holyoke, Mass. Filed June 25, 1919. Serial No. 306,635. 2 Claims. (Cl. 206—63.)

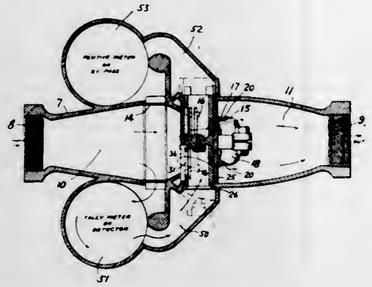


2. A package comprising a plurality of envelops arranged in adjacent but oppositely facing stacks, and a plurality of letter sheets each having one of its ends located under the flap of an envelop in one stack, and its other end extending into the other stack of envelops between the flap of one envelop and the body of an adjacent envelop.

1,339,909. FLUID-MEASURING DEVICE. ALBERT BALDWIN WOOD, New Orleans, La., assignor of one-third to Charles Arthur Brown, Lorain, Ohio, and one-third to Geo. G. Earl, New Orleans, La. Original application filed May 31, 1916, Serial No. 100,845. Divided and this application filed Sept. 26, 1917. Serial No. 193,266. 13 Claims. (Cl. 73—68.)

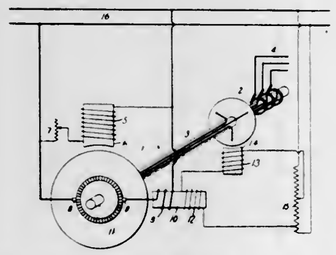
1. In fluid metering apparatus, the combination of a main conduit, a spherical-section-shaped main valve con-

trolling the flow of fluid through said conduit, a by-pass about said main valve, an auxiliary valve in said by-pass



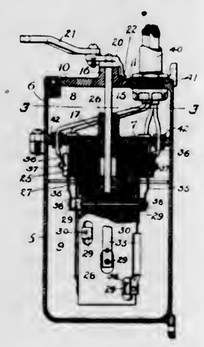
controlled by the main valve and having a triangular-shaped opening and a meter in said by-pass.

1,339,910. DYNAMO-ELECTRIC MACHINE. JOHN L. MCK. YARDLEY, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylania. Filed Mar. 28, 1913, Serial No. 757,359. Renewed Oct. 8, 1919. Serial No. 329,415. 23 Claims. (Cl. 171—123.)



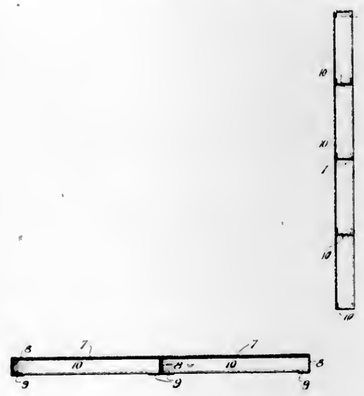
15. The combination with a rotary converter, of an alternating current booster electrically and mechanically associated therewith, and means for compensating for variations in the armature reaction under the brushes of the converter occasioned by the booster.

1,339,911. ELECTRICAL SWITCH. LEWIS AIRHART, West Reading, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1919. Serial No. 273,554. 4 Claims. (Cl. 200—8.)



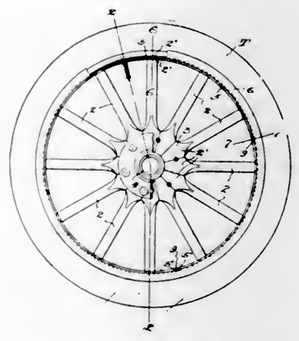
1. An electrical switch comprising a casing formed with an oil-receiving chamber, a wire-inclosing chamber, an apertured partition between said chambers, and an apertured cover for said wire-inclosing chamber; a switch shaft rotatably mounted in said partition and cover and carrying a depending insulating drum provided with connected contacts; coöperating contact fingers insulatedly secured to said partition; and feed and motor wires in said inclosing chamber separately conducted through said apertured partition and fixedly connected to the respective contact fingers.

1,339,912. MOLD-PANEL. NILS F. AMBURSEN, Pittsburgh, Pa., assignor to Uni-Form Company, a Corporation of Massachusetts. Filed Sept. 11, 1919. Serial No. 323,131. 5 Claims. (Cl. 25—131.)



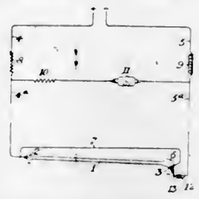
1. A panel comprising a rectangular sheet metal plate bent over at the side portions thereof to provide channel-like members at the sides, and transverse reinforcing members secured to the plate.

1,339,913. WHEEL FOR AUTOMOBILES OF THE LIGHTER CLASS. ERLE KING BAKER, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1919. Serial No. 342,191. 1 Claim. (Cl. 21—69.)



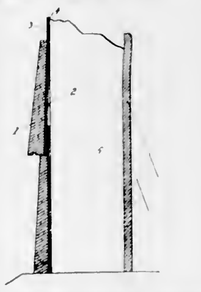
A semi-wood wheel composed of a full complement of wooden spokes having broad tenons at their ends, in combination with a ring, 5, containing tenon sockets for said tenons of the spokes, a tire-carrying fixed rim shrunk directly upon the end tenons of said spokes and at intervals attached to said ring.

1,339,914. STARTING MEANS FOR ELECTRIC APPARATUS. THOMAS A. BARRETT, Englewood, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Mar. 17, 1917. Serial No. 155,434. 6 Claims. (Cl. 176—45.)



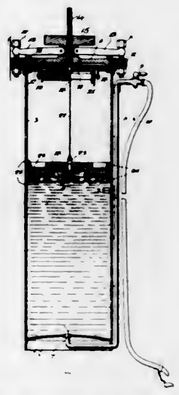
1. The method of starting an electric apparatus requiring a high potential to start it into operation, which consists in breaking a circuit across the terminals of said device and at a point remote therefrom to cause the generation in the line of said device of a potential higher than the normal operating potential of the device, and augmenting said high potential at an intermediate point between the source of high potential and the device.

1,339,915. WALL-COVERING. GEORGE FREDERIC BISHOPRIC, Wyoming, Ohio. Filed Sept. 9, 1918. Serial No. 253,214. 4 Claims. (Cl. 20—5.)



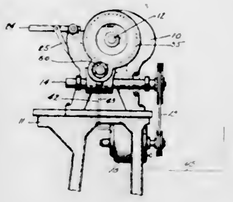
1. A weatherboard comprising in combination with the board proper, a strip of material secured to the back side of said board and arranged to extend beyond one edge thereof to form a sealing flange.

1,339,916. GREASE-GUN. HANS M. BOE, Minneapolis, Minn. Filed Mar. 27, 1915. Serial No. 17,518. 3 Claims. (Cl. 221—78.)



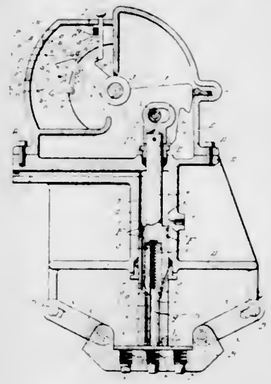
1. In a device of the class described comprising a container with a removable cover, and means for admitting air under pressure, a piston therein, a dial indicator rotatively mounted under said cover, means for connecting said dial indicator with said piston, means for opening and closing said cover, substantially as described.

1,339,917. CONTROLLING MECHANISM FOR ELECTRIC MOTORS FOR IRONING-MACHINES. IGNATIUS BOND, Evanston, Ill. Filed Nov. 15, 1919. Serial No. 338,354. 5 Claims. (Cl. 68—9.)



1. In an ironing machine the combination with the end-frames thereof, a cylinder journaled between said end-frames, mechanism that revolves said cylinder, an electric motor actuating said mechanism, and a feed-board pivoted at its ends, of an electric circuit in which said motor is included, a switch for connecting the terminals of said circuit, and means for transmitting the motion of said feed-board to said switch to open and close said circuit.

1,339,918. AUTOMATIC TRAIN-CONTROL APPARATUS. ANDREW J. BROOKINS, Chicago, Ill. Filed Feb. 17, 1919. Serial No. 277,576. 19 Claims. (Cl. 246—49.)

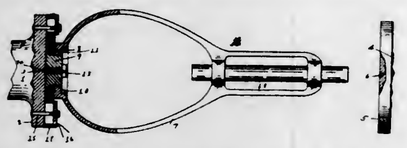


1. A car carried rotatably mounted member provided with engageable projections, a longitudinally movable member, means to connect said members, and a laterally movable member, in combination with trackside means to actuate said members in timed relation to selectively engage said laterally movable member with said projections.

1,339,919. SHAFT-ALINING DEVICE. LEANDER B. COBB, Portland, Me.; Julia L. Cobb, executrix of the estate of said Leander B. Cobb, deceased, assignor of one-half to William B. Cobb, Cleveland, Ohio. Filed Nov. 14, 1919. Serial No. 338,100. 3 Claims. (Cl. 33—46.)

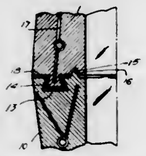
1. In a shaft alining device, a bracket carrying a sighting tube having means for establishing a sight line therein and means for mounting said bracket on the end of a

set shaft so that the lathe center of the set shaft will lie in the sight line when produced toward said means,



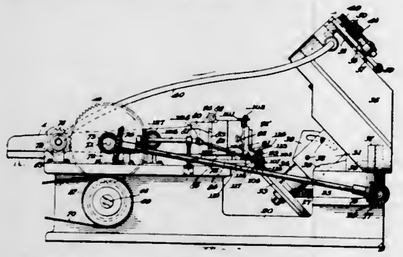
whereby the point indicated by looking through the tube and along said sight line will fix the point for the lathe center on the shaft to be set.

1,339,920. BURIAL-VAULT. NOAH W. DAVIS, Des Moines, Iowa, assignor of one-half to Edwin M. Markel, Des Moines, Iowa. Filed Sept. 23, 1919. Serial No. 325,775. 1 Claim. (Cl. 72—7.)



A vault comprising a bottom member and a top member, said bottom member having in the upper surfaces of its walls a groove with a contracted orifice, said top member having on its lower surface a downwardly projecting rib wider at its lower than at its upper portion, and adapted to extend into said groove, said top and bottom member having in their adjacent surfaces near their inner portions a coacting groove and rib for centering said members with relation to each other and preventing the passage of sealing material from said first groove inwardly into the vault.

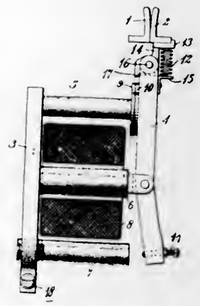
1,339,921. GEAR-CUTTING MACHINE. CHARLES E. DERR, Detroit, Mich., assignor, by mesne assignments, to James E. Gleason, trustee, Rochester, N. Y. Original application filed June 14, 1915, Serial No. 34,044. Divided and this application filed June 21, 1917. Serial No. 176,173. 7 Claims. (Cl. 90—3.)



1. In a gear cutting machine, the combination with means for holding the blank and for rolling it so that the position of its axis will change, of a rotary cutter, a carrier therefor, means for moving the carrier across the face of the blank to feed the cutter, and means operated by a moving part of the machine for rotating the cutter.

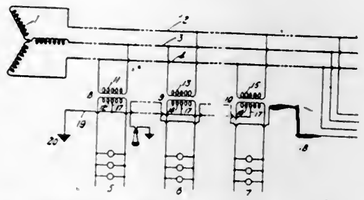
1,339,922. SWITCH FOR ELECTRIC CIRCUITS. ISIDOR DEUTSCH, Avalon, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1911, Serial No. 616,474. Renewed Nov. 19, 1919. Serial No. 339,065. 12 Claims. (Cl. 200—94.)

1. An electro-magnet comprising a substantially E-shaped core member, a relatively movable core member pivotally secured to the intermediate core leg of the E-shaped member and an actuating coil, a relative movement of the core members being effected only when the



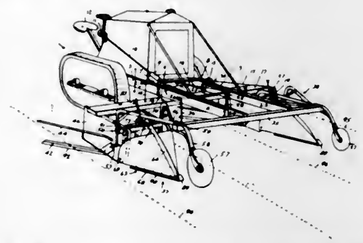
current traversing the coil falls within predetermined limits, one of the legs of said E-shaped member and said relatively movable member having enlarged pole pieces.

1,339,923. PROTECTIVE MEANS FOR DISTRIBUTING SYSTEMS. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 6, 1915. Serial No. 26,433. 3 Claims. (Cl. 171—97.)



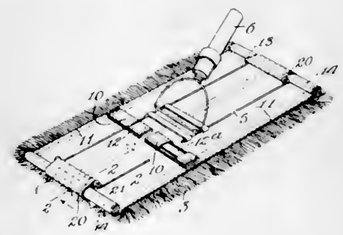
1. The combination with a conductor of an independent electrical circuit, of a polyphase transmission system, single-phase distributing feeder-circuits that are disposed in inductive relation to said independent electrical circuit, spaced transformers connecting said feeder circuits to the several phases of said polyphase transmission system and having taps at mid-points of some of their windings, and an insulated metallic conductor grounded at one end for so connecting all of said taps to a common point that no part of the working currents traversing said feeder circuits may normally flow in said metallic conductor.

1,339,924. HARVESTER. CHARLES J. GARDNER, Santa Ana, Calif. Filed Aug. 9, 1919. Serial No. 316,445. 4 Claims. (Cl. 56—10.)



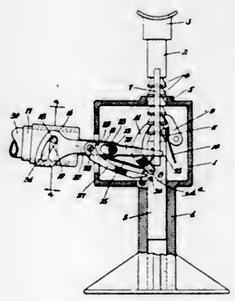
2. A bean harvester comprising the combination with a tractor, of supporting beams rigidly secured to the tractor and extending forwardly, tilting beams pivotally connected to the rigid beams, a cross bar connecting the forward ends of the tilting beams, bean harvesting members connected to the ends of the crossbar, a beam rigidly connecting the sleds of the bean harvesting members, and means mounted upon the rigid supporting beams for raising and lowering the bean harvesting members.

1,339,925. MOP. ALEXANDER WINK GRANT, Montreal, Quebec, Canada. Filed Jan. 29, 1919. Serial No. 273,893. 4 Claims. (Cl. 15—56.)



1. A mop having a flat fabric foundation of oblong shape and of a character to permit wringing thereof provided with a stiffening element of strip form disposed transversely of the foundation at a point approximately centrally between its ends, such stiffening element adapted to prevent curling up of the mop without interfering with the wringing thereof.

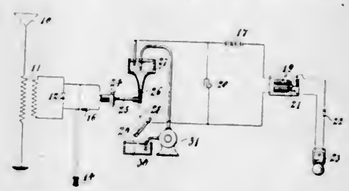
1,339,926. LIFTING-JACK. LOUIS J. HALL, Freeport, N. Y., assignor to Columbian Bronze Corporation, Freeport, Long Island, N. Y., a Corporation of New York. Filed Dec. 29, 1916. Serial No. 139,440. 16 Claims. (Cl. 254—111.)



1. In a jack, the combination of a frame, a toother lifting bar slidably mounted thereon, an operating lever having a rotatable hand gripping portion, a lifting-bar shifting pawl carried by said lever and adapted to normally engage the teeth on said bar, a holding detent normally engaging in the teeth on said bar, means movable by rotating the hand-gripping portion of the lever into and out of coöperative relation with the pawl and detent for alternately disengaging said pawl and detent when the operating lever is vibrated to lower said lifting bar, and means whereby said bar is released from the pawl and detent when relieved of the load.

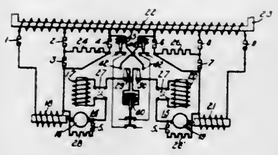
1,339,927. SYSTEM OF ETHER-WAVE CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 27, 1910. Serial No. 599,625. Renewed Sept. 29, 1919. Serial No. 327,268. 2 Claims. (Cl. 250—20.)

1. The combination with a container provided with an outlet and adapted to hold a conducting liquid, of vibratory means arranged to control said outlet, and operative to open and close said outlet in accordance with variations in electrical oscillation, said variations corresponding to sound waves, a conductive terminal spaced below said outlet and in vertical alinement therewith and arranged to receive liquid flowing from said outlet, a re-



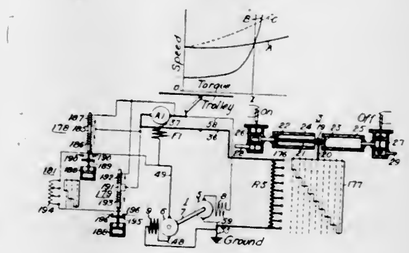
ceptacle extending beneath said terminal and arranged to receive the liquid flowing therefrom, a terminal projecting into said container, an electric circuit connecting said terminals, and means for withdrawing liquid from said receptacle and delivering the same into said container.

1,339,928. SYSTEM OF CONTROL FOR SINGLE-PHASE ALTERNATING-CURRENT MOTORS. RUDOLF E. HELLMUND, Swissvale, Pa. Filed June 15, 1917. Serial No. 174,885. 3 Claims. (Cl. 172—276.)



1. In a system of control, the combination with a supply-transformer winding and a plurality of alternating-current motors of the commutator type severally having armatures, exciting and inducing field windings, of means for connecting the armatures and exciting field windings of all motors in series relation across a middle section of the transformer winding, and means for connecting each of said inducing field windings across an adjusting outer transformer section contiguous to said middle section, whereby the voltage of all motors may be changed by successively and independently varying the voltage of said inducing field windings.

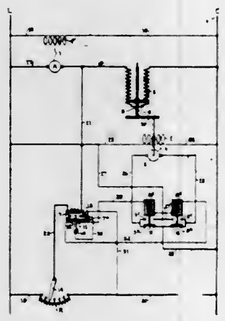
1,339,929. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Apr. 18, 1917, Serial No. 162,968. Divided and this application filed June 25, 1919. Serial No. 306,704. 9 Claims. (Cl. 172—179.)



1. In a system of control, the combination with a momentum-driven dynamo-electric machine having an arma-

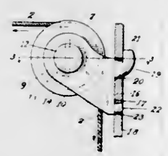
ture and a field winding, of means for separately exciting said field winding, a mechanical braking system, and means for automatically modifying the field-exciting circuit upon the application of said braking system.

1,339,930. MOTOR-CONTROLLER. CLARK TRAVIS HENDERSON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 29, 1914. Serial No. 847,974. 2 Claims. (Cl. 171—229.)



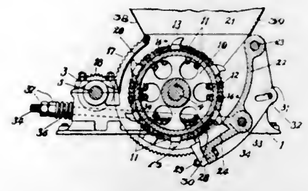
1. The combination with a motor operating under varying loads, of electro-responsive speed regulating means having a plurality of circuits for control thereof to selectively increase or decrease the speed of said motor, a relay having a winding and two armatures, one of said armatures being polarized and movable in opposite directions under reverse current conditions in said winding and the other being attracted and released at predetermined values of such current, said former armature in its attracted positions coöperating with said latter armature in its attracted position to close the circuits of said speed regulating means selectively but subject to interruption upon release of said latter armature and means whereby said relay is energized upon variations in the speed of said main motor from a given value and whereby the direction of current through said relay is varied in accordance with the character of speed variation.

1,339,931. PULLEY-BLOCK. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 11, 1918. Serial No. 253,634. 1 Claim. (Cl. 254—190.)



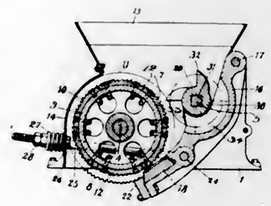
The herein described detachable pulley support formed in two similar halves, each half having a wide base plate formed with a straight flat surface 17, adapted to bear against a base surface and having two hook halves 19, adapted, when registering, to form a single hook, and two pin halves 22, adapted to form a single pin to enter the base element, the pulley being mounted in the outer ends of said plates and held rigidly against displacement in any direction when the strain is on the cable.

1,339,932. SINGLE-ROLL CRUSHER. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Filed July 10, 1916. Serial No. 108,485. 1 Claim. (Cl. 83—14.)



In an apparatus for crushing coal, the combination of a frame, a crushing roll rotatably mounted in the frame, a breaker plate mounted in the frame at one side of the roll, said roll and breaker plate forming opposite downwardly converging walls between which the coal passes downwardly to the final crushing points, uniformly spaced longitudinally extending sharp edged ribs formed upon the surface of the roll, feeding teeth extending radially from the surface of the roll to engage the material to be crushed and draw it downwardly into the tapering passage, a transverse series of breaker shoes detachably secured to the breaker plate to form a continuation of its working surface, said breaker shoes being spaced apart to form slots to permit the passage of the feeder teeth of the roll, uniformly spaced sharp edged ribs formed upon the surface of the breaker shoes extending at right angles to and closely approaching the ribs of the roll to coöperate therewith to accurately size the crushed coal.

1,339,933. SINGLE-ROLL CRUSHER. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Filed July 10, 1916. Serial No. 108,486. 5 Claims. (Cl. 83—14.)

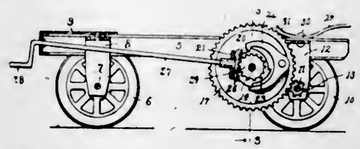


1. In apparatus for crushing coal, the combination of a frame, two companion crushing elements oppositely mounted in the frame to form a downwardly tapering passage through which the coal passes to the final crushing points, a feeding device supplemental to the roll comprising a series of elongated teeth mounted at the upper end of said passage to rotate around a transversely extending axis to engage the coal and force it downward between the crushing elements, and means to prevent the engagement with the coal of said elongated teeth during the outward and upward parts of the movement of rotation.

1,339,934. SPRING-MOVEMENT FOR TOY VEHICLES. FRANK L. LINDSTROM, Bridgeport, Conn. Filed Feb. 18, 1919. Serial 277,712. 1 Claim. (Cl. 185—37.)

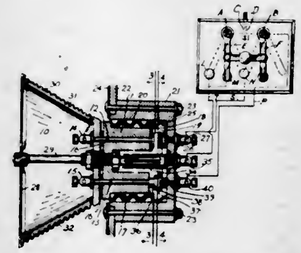
A spring motor for toy vehicles, comprising a supporting frame, a shaft, a pinion secured thereon, a gear meshing with the pinion, a crank shaft upon which the gear is mounted and having one end mounted in the supporting frame and the outer end journaled in the forward end of the vehicle frame, a large driving gear loosely mounted on the shaft, a spring one end of which

is secured to the shaft and the other end to the large gear, a pawl and ratchet to hold the shaft against backward turning, and a lever pivoted on the supporting



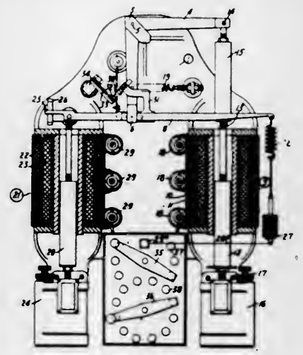
frame and adapted to have one end thereof engage frictionally the peripheral teeth of the large driving gear to prevent the spring from unwinding.

1,339,935. ELECTRIC RADIATOR. CECIL VINCENT STEVENSON, Sydney, and HENRY BURGESS, Paddington, New South Wales, Australia; said Burgess assignor to said Stevenson. Filed June 12, 1918. Serial No. 239,564. 3 Claims. (Cl. 219—34.)



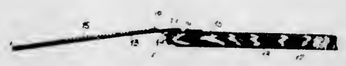
1. A heating element for an electric radiator, comprising a cone of refractory material having about its periphery a resistance coil laid in a helical groove, a plug of refractory material on the smaller end of said cone, an externally threaded cylinder constituting a contact making element about said plug and having a segment inturned over the end of said plug, through bolts connecting said plug and cone, one of said bolts engaging said inturned segment and electrically connected to one end of said coil, and in said plug a central rod constituting a contact making element electrically connected to the other end of said coil.

1,339,936. ELECTRICAL REGULATOR. ALLEN A. TIRRILL, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 13, 1916. Serial No. 119,870. 19 Claims. (Cl. 171—229.)



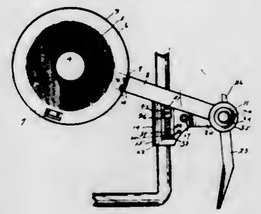
19. In an electrical system, a regulator comprising cooperating contact members, a lever system connected to one of said contact members, and means comprising two electromagnets for operating the lever system, said lever system being balanced to prevent any creeping to an extreme position upon deënergization of said magnets.

1,339,937. BLOTTING ATTACHMENT FOR CHECK-BOOKS, &c. ALEXANDER WARSHAUER, Cambridge, Mass. Filed July 30, 1919. Serial No. 314,311. 2 Claims. (Cl. 281—1.)



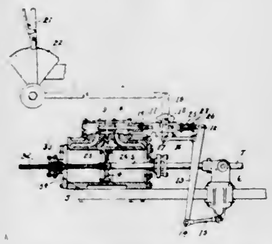
1. A blotting attachment for blank books comprising a wire pintle formed to extend across a blank book leaf, and having angular extensions at its opposite ends constituting oppositely projecting alined trunnions adapted to be inserted in the crevice between the inner end of a pack of checks and the back portion of the pack cover, and resilient arms connecting said trunnions with the pintle, and adapted to hold the trunnions yieldingly in said crevice and permit the withdrawal of the trunnions, and a blotter having a socket member adapted to turn on the pintle, the blotter being adapted to swing on the pintle and alternately expose and cover the top leaf of the book, and the pintle being adapted to swing on an axis formed by said trunnions.

1,339,938. SIGNAL DEVICE FOR AUTOMOBILES. ROY WETHERILL, Kansas City, Mo. Filed July 5, 1917. Serial No. 178,781. 1 Claim. (Cl. 116—52.)



A signaling device for automobiles, comprising a lever having a disk portion provided with a hollow hub and with a laterally projecting stop, a supporting arm having a disk portion mounted idly on the hub on said lever and a stop engaged by the stop on the disk of the lever, an attaching member having a disk portion mounted idly on the hub on said lever, and a yielding stop member demountably secured on the inner end of said attaching member and projecting in the rotative field of said lever and said supporting arm.

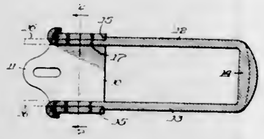
1,339,939. POWER-OPERATED REVERSING-GEAR. JOHN H. ALTER, Conneaut, Ohio. Filed Oct. 7, 1918. Serial No. 257,139. 4 Claims. (Cl. 121—41.)



1. In power operated reversing gear, the combination with a cylinder secured to the locomotive and a piston

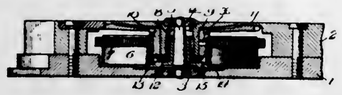
therein operatively connected to the link-motion, of a valve adapted to place either end of said cylinder in communication with a source of fluid pressure supply, a manually adjustable lever, connections between said lever and valve, connections between said piston and valve whereby said valve will be restored to central position, and means independent of either of said connections yieldingly forcing said valve in one direction.

1,339,940. DRAW-BAR YOKE. CARL E. BAUER, Hammond, Ind. Original application filed Oct. 21, 1918, Serial No. 259,065. Divided and this application filed May 21, 1918. Serial No. 298,744. 2 Claims. (Cl. 213—42.)



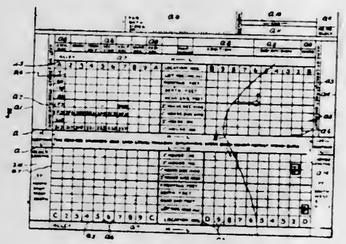
1. In a draft rigging device, the combination of a band adapted to surround and engage a coupler butt, a yoke member comprising a back wall and parallel arms, the free ends of the arms being provided with shoulders on their outer surfaces, and the ends of the arms being bent back upon themselves around the forward edges of the band, said shoulders being adapted to engage the rear edges of the band, the hooks formed by the backwardly bent ends of the arms being of such depth as to overlie a portion of the band, substantially as described.

1,339,941. WATCH-BARREL. HELGE A. BORRESEN, Marquette, Mich., assignor of one-half to Edward R. Hills, Chicago, Ill. Filed July 10, 1916. Serial No. 108,290. 19 Claims. (Cl. 58—86.)



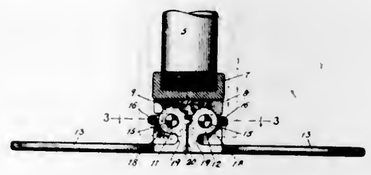
18. A watch having a plate member and a bridge member, an annular sleeve carried by one of said members, a main arbor supported by said members, and a winding arbor carried by said sleeve, said winding arbor being out of contact with said main arbor.

1,339,942. BLANK FORM. HORACE MILFORD BRANSON, Knoxville, Tenn. Filed Mar. 9, 1916. Serial No. 83,138. 10 Claims. (Cl. 283—34.)



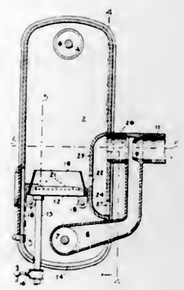
1. In the art herein described, a form having two groups of symbols, the symbols of each group forming a row and ranging serially toward the other group, said form having space for the entry of data in relation individually to said symbols and pertaining to parcels of land, and said form also having appropriately-designated space for the entry of data indicating collectively the geographical location of said parcels of land, substantially as described.

1,339,943. PUMP-STIRRUP. CHARLES D. BRANDT, New York, N. Y., assignor of one-half to Eugene J. Schweizer, Ridgewood, N. Y. Filed Oct. 4, 1919. Serial No. 328,497. 3 Claims. (Cl. 103—65.)



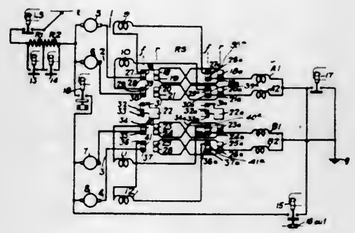
3. The combination of an air pump, a cap at one end thereof having an axially extending main recess and transverse auxiliary recess arranged in coöperating pairs and communicating with said main recess, said auxiliary recesses being open at their outer ends, stirrup members located in said main recess and between each pair of auxiliary recesses and movable to and from an operative position, trunnions on said stirrup members extending into said auxiliary recesses and constituting pivots for said members, an annular ring obstructing the open ends of said auxiliary recesses and engaging said stirrup members whereby said trunnions are maintained against removal from said auxiliary recesses, said stirrup members having pockets for the accommodation of said ring when the stirrup members are in their inoperative positions and segmental gears on said stirrup members and meshing with each other whereby said members are pivotally movable in unison.

1,339,944. GAS-RADIATOR. LEGENDRE CINQ-MARS, San Francisco, Calif. Filed Apr. 2, 1918, Serial No. 226,143. Renewed Sept. 22, 1919. Serial No. 325,523. 2 Claims. (Cl. 126—91.)



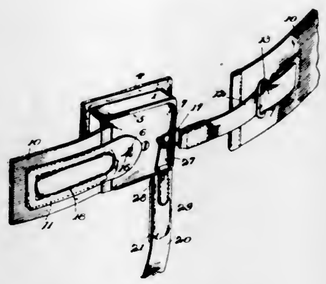
2. A gas radiator, having a central member, side radiating members communicating at the top with the central member, a discharge conduit communicating with the bottoms of the side radiating members, and leading outside of the central member, first, upwardly and then changing its direction, and an air heating conduit communicating at a lower point with the atmosphere and at an upper point with the part of the discharge conduit at which it changes its direction.

1,339,945. SYSTEM OF CONTROL. JOHN A. CLARKE, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1916. Serial No. 88,800. 17 Claims. (Cl. 172—179.)



17. The combination with a pair of electric motors connected in a common circuit to a source of energy, of means for disconnecting said circuit from said source, means for dynamically braking said motors, and means for preventing reconnecting said circuit to said source until the dynamic-braking current ceases to flow.

1,339,946. TRUSS. ISAAC N. CRESS, Wakeeney, Kans. Filed July 17, 1919. Serial No. 311,551. 3 Claims. (Cl. 128—112.)

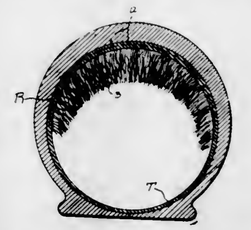


1. In a truss, the combination with a pad-carrying block, and a spring finger projecting radially therefrom and deflected out of the plane of the block away from the body of the wearer; of a belt attached at one extremity to the back of the block and having a pocket receiving said finger, and means for adjustably connecting the other extremity of the belt with the block.

1,339,947. PROCESS OF MAKING ETHYL SULFATES. HENRY R. CURME, Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed July 7, 1919. Serial No. 309,027. 5 Claims. (Cl. 23—24.)

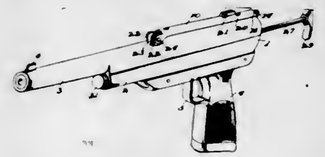
1. Process of making ethyl sulfates, comprising passing ethylene in excess in contact with sulfuric acid, forming thereby ethyl hydrogen sulfate and di-ethyl sulfate, entraining di-ethyl sulfate with the excess of ethylene, and separating it therefrom.

1,339,948. INNER TUBE. JOSEPH M. DIRIENZO and JOHN A. DIRIENZO, Madison, Wis. Filed Mar. 22, 1919. Serial No. 284,276. 3 Claims. (Cl. 152—13.)



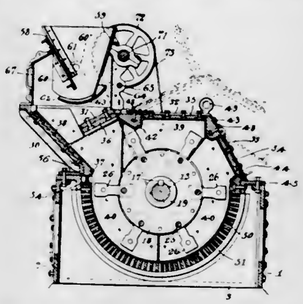
1. As a new article of manufacture, an inner tube and a plurality of threads engaged with the tread portion of the tire and free one from the other, each of said threads being secured at an end to the tube.

1,339,949. PISTOL. LOUIE MILTON EGTS, Atlanta, Ga. Filed Apr. 26, 1919. Serial No. 292,880. 6 Claims. (Cl. 124—12.)



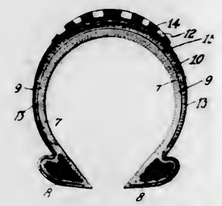
1. In a device of the character set forth, the combination of a frame, a barrel extending forward from the upper portion of the frame, a magazine pivotally mounted upon the rear end of the barrel and extending over the frame, means within the magazine to feed projectiles therein forwardly, a plunger slidably mounted in the barrel, and means within the frame for operating the plunger.

1,339,950. PULVERIZER. JOHN T. FOWLER, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 1, 1914. Serial No. 828,772. 3 Claims. (Cl. 83—11.)



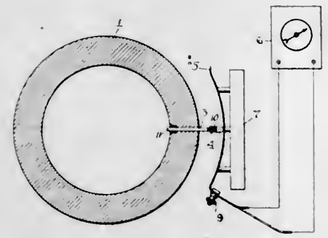
1. The combination of the lower casing section, having end walls formed with axially outwardly swelled bearing seats, the bearing shells rigidly fastened exclusively to the said swelled parts of the lower casing section, the pulverizer rotor, comprising a series of sets of pivoted hammers, the flanged disks 21 at the ends of the series of hammers, and the shaft, the ball bearings in said bearing shells, the upper removable casing section, supported in operative position independently of the bearings, and adapted to be separated from the lower casing section while said lower section and said shaft hold all of their parts in normal operative relationship.

1,339,951. PNEUMATIC TIRE. CHARLES C. GATES, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a Corporation of Colorado. Filed Mar. 12, 1919. Serial No. 282,110. 11 Claims. (Cl. 152—13.)



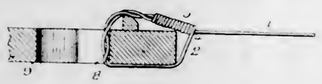
4. A tire having two bead elements only, an inner stressed member and an outer member stressed to a lesser degree, and constructed to form an integral device.

1,339,952. PYROMETER. WALTER GLAESER, Brooklyn, N. Y., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1917. Serial No. 146,632. 2 Claims. (Cl. 73—32.)



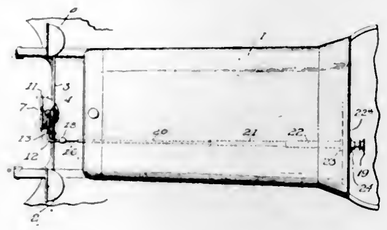
1. The combination of a rotary furnace chamber, a thermo-electric pyrometer bar mounted therein and extending radially therefrom, said bar being provided with two branches on such extending portion, resilient means tending to press said branches radially outward, indicating mechanism for said pyrometer normally disconnected from said bar, and spaced parallel contact bars connected to said indicating mechanism and disposed concentrically with respect to the wall of said furnace and in the path of movement of such branches of said pyrometer bar, such branches being adapted to engage said contacts upon rotation of said furnace chamber and to thereupon indicate the furnace temperature at said indicating mechanism.

1,339,953. STRING FOR MUSICAL INSTRUMENTS. CHARLES GRAIVER, New York, N. Y. Filed Dec. 3, 1919. Serial No. 342,180. 2 Claims. (Cl. 84—44.)



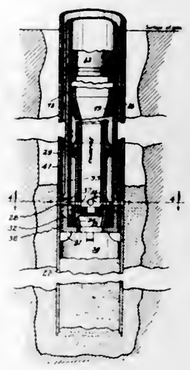
2. A string having a portion at one end reversed in the form of a loop, and two adjacent portions of the string twisted together providing relatively long flexible turns for a suitable distance along the string from the inner portion of the loop providing a free portion of the wire from the end of the twist remote from the loop, said end portion being closely coiled around the twist in the direction toward the loop for such a distance as will provide sufficient space of the twist uncovered by the coil to fit flexibly over a tail piece free from the coiled portion, the twisted portion of the string in said space having greater flexibility than the portion having said coil.

1,339,954. SPOT-LIGHT FOR AUTOMOBILES. WILLIAM B. HAINES, Sunbury, Pa. Filed Aug. 30, 1919. Serial No. 320,800. 2 Claims. (Cl. 240—61.)



1. The combination with an automobile having a transverse rod at its forward end, of a bracket secured to said rod, the said bracket comprising a fitting having a vertical opening and a tube secured in said opening, a vertically arranged supporting rod or post journaled in said tube, a lamp secured to said post, a lever secured to said post and projecting laterally therefrom, and an operating rod connected to said lever and extending rearwardly to a point convenient to the driver's seat.

1,339,955. APPARATUS FOR AND PROCESS OF LINING WELLS. JEAN AMEDÉE HARDEL, Paris, France. Filed Feb. 26, 1919. Serial No. 279,387. 45 Claims. (Cl. 166—1.)

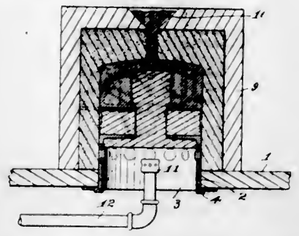


1. The method of lining a well which consists in placing cement about a mold in the well, and depositing a retaining core within the lining when the mold is withdrawn.

41. The method of lining a well which comprises determining the volume of a section of the well, inserting a tubular form in the well opening, inserting a predetermined quantity of cementitious material into the well about the form and packing the cementitious material into position in such section of the well to form the lining.

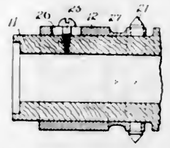
43. An apparatus for lining a well, comprising a recording device adapted to measure the volume of a section of the well, a tubular form for insertion in the measured well opening and means for packing a measured quantity of cementitious material around the form in such section of the well.

1,339,956. PROCESS OF MAKING A COMPOSITE CASTING OF ALUMINUM AND ANOTHER METAL. HARVEY B. HITESHEW, Cleveland, Ohio. Filed Aug. 31, 1916. Serial No. 117,862. 1 Claim. (Cl. 74—108.)



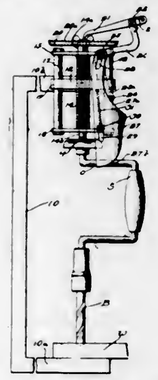
As a new article of manufacture, a unitary integral composite cast piston of aluminum and another metal, the said other metal being in form substantially an annular ring, and having a portion which extends within the head, the outer surface of the said ring being substantially flush with the outer surface of the aluminum portion of the piston head.

1,339,957. JACQUARD MECHANISM. HENRY JANSSEN, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed February 11, 1920. Serial No. 357,844. 2 Claims. (Cl. 139—16.)



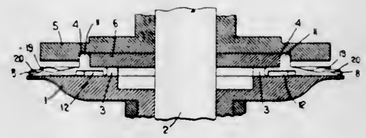
1. In a jacquard mechanism comprising a series of laced-together cards having guide apertures adjacent the ends thereof; a rotary card drum having cylindrical end portions of less diameter than an inscribed circle of the prismatic main portion, longitudinally adjustable sleeves on said cylindrical portions having card-bearing ends of an exterior diameter corresponding with said inscribed circle and provided with conical guide-pin projections, and means for securing said sleeves in longitudinally adjusted position upon the drum.

1,339,958. FEEDING ATTACHMENT FOR BITSTOCKS. KARL W. KARLSSON, East Boston, Mass. Filed July 17, 1919. Serial No. 311,443. 5 Claims. (Cl. 77—59.)



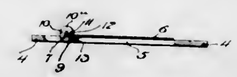
1. An attachment for use with U-crank bit stocks, comprising a relatively fixed member affording a support for the work, a block fixed thereto having a feed screw threaded therethrough, and means for operating said feed screw at each rotation of the bit stock, equipped with a cam piece to be operatively engaged with an arm of said U-crank.

1,339,959. KNITTING-MACHINE NEEDLE. PATRICK P. LA MONTAGNE, Bourbonnais, Ill., assignor to Paramount Knitting Company, Chicago, Ill., a Corporation of Illinois. Filed March 13, 1918. Serial No. 222,057. 8 Claims. (Cl. 66—5.)



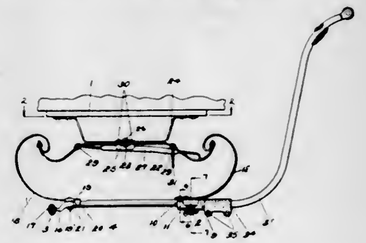
1. A knitting machine needle comprising a longitudinally slotted hook member and a separate latch member, means for effecting the longitudinal reciprocation of the one member from the other, the said hook member being provided with a lateral opening communicating with said slot, the said latch member when in retracted position being located entirely in said opening and slot with the head of the latch member movable relatively to the hook member through said slot to bring the point of the latch member into and out of coöperation with the hook.

1,339,960. MOUTH-ORGAN. EMIL LAMPRECHT, Philadelphia, Pa. Filed Mar. 14, 1919. Serial No. 282,609. 3 Claims. (Cl. 84—33.)



2. The combination of a reed plate having a slot therein; and a reed positioned over said slot and having a portion in engagement with said reed plate, said portion of the reed having a hook thereon, said reed plate having a lip struck therefrom and bent in the form of an arch around said hook; substantially as described.

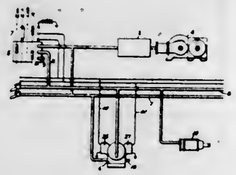
1,339,961. RUNNING-GEAR FOR CHILDREN'S CARRIAGES AND THE LIKE. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich., a Corporation of Michigan. Filed Aug. 22, 1919. Serial No. 319,237. 6 Claims. (Cl. 280—47.)



1. In a running gear, the combination of side members, a rear axle disposed below said side members, springs disposed above said side members having clips on their under sides, said side members having indentations to receive said clips, cruciform coupling members disposed between the axle and side members with their transverse

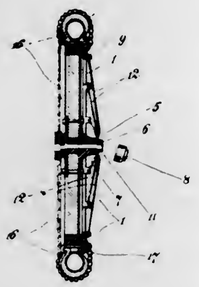
arms parallel with the axle and provided with clamping lugs engaging the axle and their longitudinal arms parallel with said side members and provided with clamping lugs at their ends embracing the same, forward side member clamping lugs being extended above the side members to engage said springs, and clamping bolts arranged through said clamping lugs to engage said clips on said springs, said coupling members being further secured to said axle by rivets disposed centrally thereof.

1,339,962. AIR-BRAKE SYSTEM. GEORGE MACLOSKIE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed May 7, 1919. Serial No. 295,438. 7 Claims. (Cl. 303—20.)



1. In an air brake system, a brake cylinder, a source of air pressure, a magnet valve adapted to be operated to establish a connection between said source and brake cylinder, a second magnet valve adapted to be operated to establish a connection between said brake cylinder and exhaust, means for operating said magnet valves to establish said connections, and means for preventing the establishment of both of said connections when both of said magnet valves are operated at the same time.

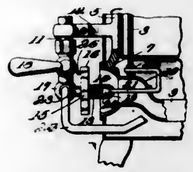
1,339,963. ANTISKID DEVICE FOR AUTOMOBILE-WHEELS. CHANCY E. MAHAN, Shelbyville, Ill. Filed Aug. 1, 1918. Serial No. 247,856. 6 Claims. Cl. 152—14.)



1. An anti-skid device for automobile wheels comprising a rim ring located at the outer face of the wheel, an annular stay chain arranged at the inner face of the wheel, anti-skidding means extending across the tire of the wheel and connecting the rim ring and the stay chain and means for securing the ring and the stay chain to the wheel.

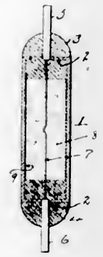
1,339,964. THERMOSTATIC FUEL-REGULATING DEVICE FOR GAS-OVENS. BENJAMIN EDWIN MEACHAM, Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed July 7, 1919. Serial No. 309,244. 5 Claims. (Cl. 236—15.)

2. A fuel control for an oven, comprising an oven, a thermostat within the oven, an oven burner, a fuel supply for the burner comprising an adjustable nipple having a gas outlet opening, a valve for controlling the



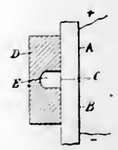
opening operatively connected with and operated by the thermostat, and a regulating member connected with the adjustable nipple for the purpose described.

1,339,965. ELECTRIC FUSE. THOMAS E. MURRAY, New York, N. Y. Filed Oct. 12, 1918. Serial No. 257,844. 5 Claims. (Cl. 200—131.)



1. An electric fuse, comprising a tubular casing, a fuse strip therein, terminal rods connected to the ends of said strip, and two bodies of insulating material completely embedding the joints between said rods and said strip and closing the ends of said casing.

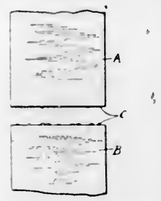
1,339,966. METHOD OF PRODUCING A RIB ON AN ELECTRICALLY-WELDED JOINT. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Nov. 25, 1919. Serial No. 340,607. 5 Claims. (Cl. 219—10.)



1. The method of producing at an electrically welded joint between metal plates, a strengthening rib of predetermined shape and dimensions, which consists in placing a fixed mold, having in one face a recess corresponding in shape and dimensions to the desired rib, against said plates, with said recess spanning the joint, establishing welding current and pressing said plates together, whereby the metal extruded at said joint is caused to enter and fill said mold and conform to the shape thereof.

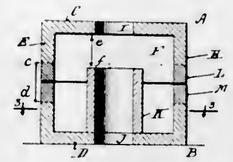
1,339,967. METHOD OF ELECTRICALLY WELDING METAL BODIES. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Nov. 25, 1919. Serial No. 340,608. 2 Claims. (Cl. 219—10.)

1. The method of electrically welding metal bodies having on their welding surfaces small projections or asperities, which consists in first pressing said surfaces together with sufficient force to eliminate said asperities,



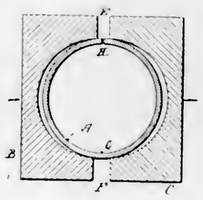
and then establishing the welding current to unite said surfaces.

1,339,968. METHOD OF ELECTRICAL WELDING. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Dec. 16, 1919. Serial No. 345,234. 2 Claims. (Cl. 219—10.)



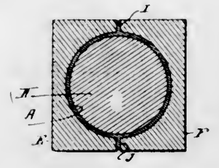
1. The method of electrically welding a bushing within flanged plates united to form a hollow casing having circular registering openings, which consists in providing said flanges with take-ups unitedly of a predetermined depth, placing the bushing between said plates with its bore in registry with said openings and in contact at one end with one of said plates, the distance between the opposite end of said bushing and the inner surface of the distant plate being slightly less than said united depth of said take-ups, and then establishing the welding current and pressing said sections together until the metal of said take-ups is fused and extruded and the said distant plate makes contact with said bushing; whereby both ends of said bushing are welded to said plates.

1,339,969. METHOD OF ELECTRICAL WELDING. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Dec. 24, 1919. Serial No. 347,213. 1 Claim. (Cl. 219—10.)



The method of electrically welding the longitudinal edges of a tube formed by bending a metal sheet, which consists in seating said tube in recesses in opposing relatively movable electrodes so that the edges to be welded shall enter one of the two gaps between the faces of said electrodes, proportioning the width of the other of said two gaps to vary the resistance offered by the metal of said tube bridging said gap to maintain at predetermined strength the welding current at the joint, and pressing said electrodes together until said edges are united.

1,339,970. METHOD OF PRODUCING LONGITUDINAL RIBS ON THE EXTERIORS OF TUBES. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Dec. 24, 1919. Serial No. 347,214. 1 Claim. (Cl. 219—3.)



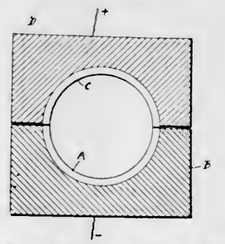
The method of producing longitudinal ribs on the exterior of a tube, which consists in seating the tube in electrodes having a gap between their opposing faces, while internally supporting the portions of said tube bridging said gap, establishing a heating current, and moving said electrodes relatively to one another, whereby the metal of said bridging portions is fused and extruded to form said external ribs.

1,339,971. METHOD OF ELECTRICAL WELDING. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Jan. 3, 1920. Serial No. 349,185. 1 Claim. (Cl. 219—10.)



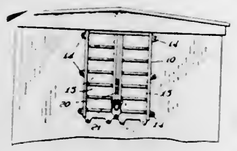
The method of preventing transverse vibration of the edges of a hollow object of sheet metal during the electrical welding of said edges to the registering edges of a similar object by means of an alternating current, which consists in forming said object with a transverse dimension greater than the corresponding transverse dimension of a recess formed in an electrode, seating said object in said recess, and thereby compressing said object to cause the same to press resiliently against its seat in said electrode; whereby tendency of said object to inward vibration is met by its own outwardly acting resiliency.

1,339,972. METHOD OF ELECTRICAL WELDING. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Feb. 4, 1920. Serial No. 356,128. 2 Claims. (Cl. 219—10.)



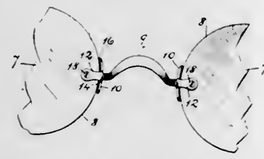
1. The method of electrical welding, which consists in seating the bodies to be united in recesses in electrodes, establishing the welding current and pressing said bodies together until the joint is completed, then stopping both the pressure and the welding current and finally leaving said bodies in the electrodes for a period long enough to equalize the temperature at the joint with that of the metal elsewhere to a degree sufficient to prevent distortion of the work after removal thereof from said electrodes.

1,339,973. VENTILATOR. ARTHUR F. O'CONNOR, Chicago, Ill., assignor to The Union Railway Equipment Co., Chicago, Ill., a Corporation of South Dakota. Filed Dec. 11, 1917. Serial No. 206,650. 8 Claims. (Cl. 189—62.)



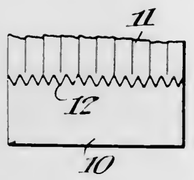
1. A ventilator comprising, in combination, a series of shutters, each shutter mounted to swing about a pivot adjacent its lower edge, a lug projecting inwardly from the lower portion of each shutter, a link connecting said lugs whereby said shutters tend to open by gravity, an arm on said link projecting to the outside of the ventilator and means for holding the arm in adjusted position.

1,339,974. LENS-MOUNT. FRANK A. PERSOHN, Baltimore, Md. Filed Dec. 8, 1917. Serial No. 206,135. 1 Claim. (Cl. 88—42.)



The combination with a lens, of a strap having a concave side and two spaced-apart clamping jaws projecting from said concave side and straddling the lens,—said strap having a tang projecting from its concave side at a point between said jaws, and a spring plate seated against the strap between the jaws and provided with a perforation through which the tang projects to hold the spring plate against movement with respect to the jaws.

1,339,975. CARD-MATCHES. CLARENCE L. PFERSCH, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1919. Serial No. 286,125. 5 Claims. (Cl. 52—5.)



1. A match card comprising a sheet of veneer having a marginal portion and a row of splints projecting therefrom, the basal ends of the splints being determined by a sinuous line of weakness.

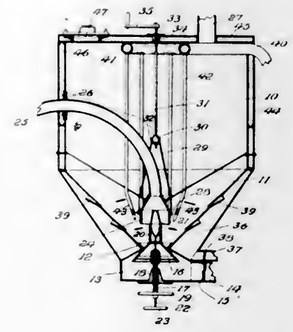
1,339,976. ELECTRIC SWITCH. EDWIN H. PIERSEN, Topeka, Kans. Filed Aug. 2, 1915. Serial No. 43,119. 23 Claims. (Cl. 200—68.)

22. In an electric switch, a rotatable shaft having a radial arm, a body rotatable on the shaft, having an insulated contact point, a contact member on the body engageable with said point, an oscillatory ring cam on said body engageable with said contact member to shift the same in either direction according to direction of movement of the cam and having spaced, inwardly directed cam points normally located at opposite sides of the shaft



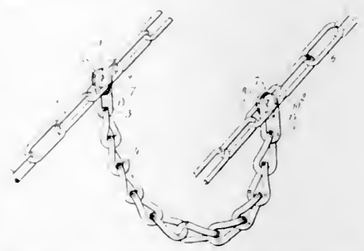
arm and having wiping faces engageable thereby to shift the cam, one of the points having a hook opposite its wiping face engageable with the arm upon continued movement of the rotatable body to stop the body.

1,339,977. CONTAINER FOR COMMINUTED MATERIAL. HARRY B. PRUDEN, Chicago, Ill., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 7, 1916. Serial No. 70,834. 17 Claims. (Cl. 193—10.)



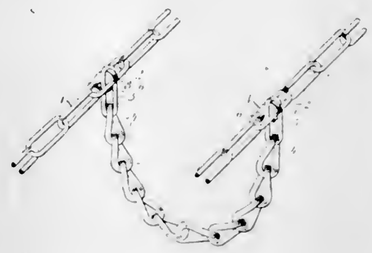
1. The combination with a storage tank for comminuted material, of a discharge pipe leading from the tank, means for supplying air to the material in planes oblique to its path of travel, and means to produce siphonic action in the pipe and a partial vacuum in the tank.

1,339,978. CHAIN TIRE-GRIP. ROBERT E. PYE, Bridgeport, Conn., assignor to American Chain Company, Incorporated, Bridgeport, Conn., a Corporation of New York. Filed Mar. 28, 1918. Serial No. 225,242. 12 Claims. (Cl. 152—14.)



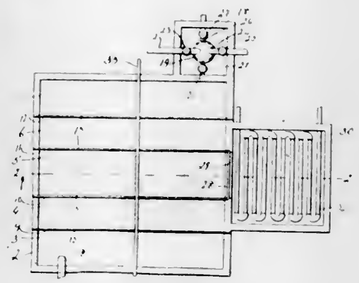
1. The tire grip consisting of side chains comprising straight sided holding links and coöperating tread chains having traction links at their central portions and straight sided connecting links at their ends, said connecting links being inserted within the holding links of said chains and two-part gripping connectors within the interlocked portions of said connecting and holding links to prevent their disengagement, said connectors comprising bridging shoulders and comprising connecting link sockets to be tightly engaged by said connecting links, and a nicked connector screw securely connecting the parts of said connector and render them substantially irreplaceable.

1,339,979. CHAIN TIRE-GRIP. JOHN R. REYBURN, Fairfield, Conn., assignor to American Chain Company, Incorporated, Bridgeport, Conn., a Corporation of New York. Filed Mar. 28, 1918. Serial No. 225,187. 16 Claims. (Cl. 152—14.)



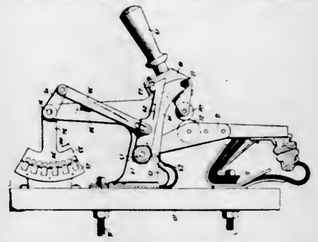
1. The trip grip consisting of side chains comprising holding links and coöperating tread chains having traction links at their central portions and straight sided connecting links at their ends, said connecting links being inserted within the holding links of said side chains and one-piece block connectors within the interlocked portions of said connecting and holding links to prevent their disengagement, said connectors comprising bridging shoulders and coöperating sockets to engage said holding links and comprising connector ends adapted to be bent outward into gripping engagement with said holding links, said connector ends having nicked weakened portions on their outside faces adjacent said sockets to make them substantially irreplaceable.

1,339,980. PURIFIER. JOHN W. ROCHE, Philadelphia, Pa., assignor of one-half to E. M. Sleppy, Binghamton, N. Y. Filed Aug. 21, 1917. Serial No. 187,333. 3 Claims. (Cl. 210—18.)



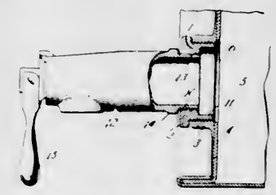
1. The combination with a main basin and sterilizing basin in communication therewith of a water sterilizer connected with the main basin and comprising a plurality of sections superimposed upon one another, end walls or domes, partitions located between adjacent sections and the end sections and domes, said partitions each consisting of two different mesh screens, insulating material between the partitions and sections, said partitions forming chambers, animal carbon in certain of said chambers, and silica in certain other of said chambers.

1,339,981. CIRCUIT-BREAKER. FRANK W. ROLLER, East Orange, N. J., assignor to Roller-Smith Company, a Corporation of New York. Filed Mar. 19, 1917. Serial No. 155,710. 5 Claims. (Cl. 175—294.)



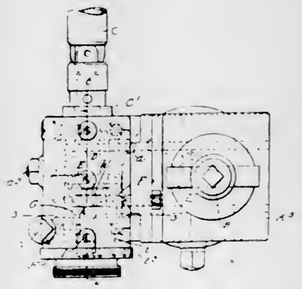
2. The combination with a polyphase circuit of a manually closable switch, a latch biased to lock said switch in closed position, a movable element for controlling said latch, and a rotative polyphase motive device for causing said element to deliver to said latch a hammer blow for releasing the switch upon a change in the order of phases of said circuit.

1,339,982. FAUCET-SUPPORTING COLLAR. SIDNEY ROSENFELD, Cleveland, Ohio. Filed June 4, 1917. Serial No. 172,563. 1 Claim. (Cl. 221—24.)



The combination of a faucet having a wrench receiving portion and a reduced threaded extension thereabeyond, and an externally threaded attaching collar designed to be screwed into the threaded bung hole of a container for convenient removal therefrom, the collar having a bore that is threaded adjacent its outer end for the reception of the threaded extension of the faucet from either the inner or outer end of the collar, the bore being enlarged adjacent its inner end for the accommodation of the wrench receiving portion of the faucet when the latter is disposed beyond the inner end of the collar.

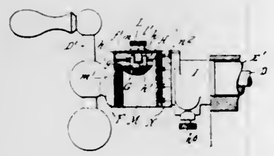
1,339,983. RELIEVING ATTACHMENT FOR LATHES AND THE LIKE. WILLIAM H. RUNGE, Seneca Falls, N. Y., assignor to the Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Filed Mar. 3, 1919. Serial No. 280,323. 17 Claims. (Cl. 82—19.)



1. In a relieving mechanism, the combination with a movable tool-carrying member, a cam for causing said

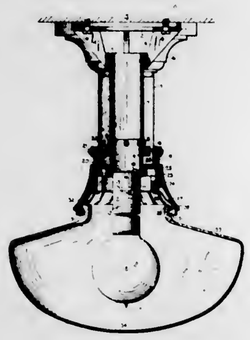
member to move relatively to the work, a lever interposed between said cam and said tool-carrying member, and means for adjusting the position of said lever about the axis of said cam to vary the movement imparted to said tool-carrying member.

1,339,984. MICROMETER GAGE OR STOP DEVICE FOR LATHES OR THE LIKE. WILLIAM H. RUNGE, Seneca Falls, N. Y., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Filed Mar. 10, 1919. Serial No. 281,831. 18 Claims. (Cl. 82—24.)



3. The combination with a rotatable adjusting shaft, a normally stationary stop device which is rotatably adjustable, a coöperating movable stop device, a screw mechanism engaging said movable stop device for moving said movable stop device to engage said stationary stop device, and means for moving said movable stop device out of engagement with said screw mechanism.

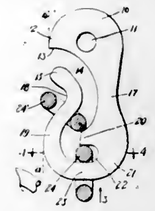
1,339,985. LAMP CONSTRUCTION. LINDSLEY SCHEPMOES, Hasbrouck Heights, N. J., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Mar. 16, 1915. Serial No. 14,644. 9 Claims. (Cl. 240—78.)



1. In lamp construction for railway carriages and the like, in combination, a supporting member adapted to be secured to the ceiling, a canopy extending about said supporting member, a device mounted upon said supporting member and vertically adjustable with respect thereto, said canopy being mounted upon said device and adjustable therewith, a shade provided with a lip, means adapted to interlock with said lip, and a member adjustably mounted upon said device adapted to hold said first means in interlocking relation.

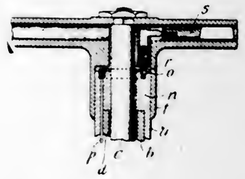
1,339,986. HOOK FOR USE WITH CHAINS. CHARLES D. SCHMIDT, Woodhaven, N. Y. Filed Apr. 18, 1918. Serial No. 229,239. 7 Claims. (Cl. 24—231.)

6. A hook having a base and a curved portion with parts proximal to and distal from said base, an abutment projecting across from the proximal part toward the distal part said hook being adapted to cooperate with a link



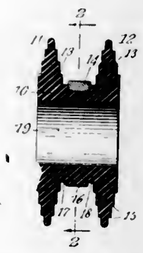
engaged thereby and of stock substantially filling the space between said abutment and the apex, said abutment being transversely wider than the apex part of the hook.

1,339,987. STEERING-POST BEARING. GRANT E. SMITH, Poughkeepsie, N. Y., assignor to Ponvailsmith Corporation, Poughkeepsie, N. Y., a Corporation of New York. Original application filed Aug. 25, 1916, Serial No. 116,761. Divided and this application filed Jan. 8, 1917. Serial No. 141,180. 3 Claims. (Cl. 173—324.)



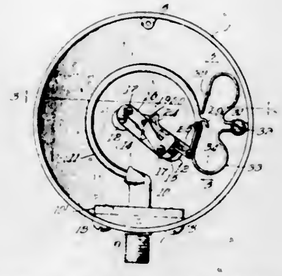
2. In apparatus of the class described, the combination of a bearing of molded plastic material, a steering wheel shaft passing therethrough, a steering wheel provided with a flange extending around the outside of the bearing, an electrical collector-ring embedded in the bearing and presenting an annular exposed surface, and a brush on the steering wheel spring-pressed against said surface whereby electrical contact is made between the collector-rings and the brush in all positions of the steering wheel.

1,339,988. INSULATING COLLECTOR OR DISTRIBUTER SPOOL. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Mar. 20, 1917. Serial No. 156,011. 8 Claims. (Cl. 171—322.)



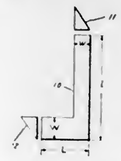
1. In a spool insulator, a body portion of insulating material, said insulator having an axis of rotation and provided with a plurality of circumferential flanges of insulating material radially extending therefrom, a metal strip secured to the surface of said body portion, between adjacent flanges, the contour of said flanges being serrated to extend or enlarge the surface area thereof.

1,339,989. GAGE. ORVILLE W. THOMPSON, Chicago, Ill. Filed May 3, 1915. Serial No. 25,530. 3 Claims. (Cl. 73—109.)



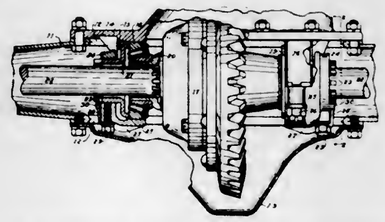
1. In a gage, a dial, an indicator arranged to coöperate therewith, a Bourdon spring operatively connected with said indicator, said spring provided with an offset at one end thereof, said offset formed with a downwardly extending shoulder at the end thereof, in combination with a detachable spring member having two branches normally disconnected from said Bourdon spring, one of said branches arranged to engage the Bourdon spring at substantially the junction of the offset therewith after a predetermined movement of the Bourdon spring in one direction from its neutral position, and the other of said branches to engage the shoulder at its junction with the offset at a predetermined movement of the spring in the other direction from such position.

1,339,990. PRODUCTION OF CORE LAMINATION-SECTIONS. MATTHEW O. TROY, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 11, 1918. Serial No. 244,431. 10 Claims. (Cl. 164—17.)



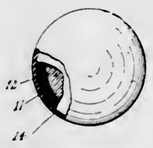
1. The part of the method of producing L-shaped core laminations or lamination sections of different dimensions by means of an L-shaped shear, which consists in substantially determining the dimensions of the particular L-shapes by the distances from the knee of the shear to the sides of the stock from which the L-shapes are produced, by the angular relations between the stock and the sides of the shear, and by the distance the stock is advanced between strokes of the shear.

1,339,991. BEARING. JOHN G. UTZ, Cleveland, Ohio, assignor to the Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 21, 1919. Serial No. 291,674. 5 Claims. (Cl. 64—62.)



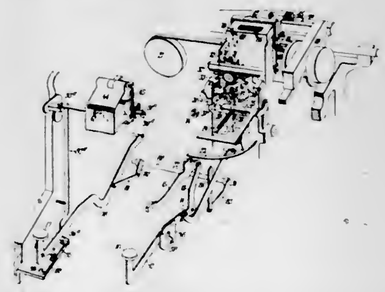
5. In mechanism of the class described, the combination of a supporting member, a cap removably secured thereto, the said member and cap having a bearing seat formed therein, a bearing in said seat, and means for adjusting said bearing comprising a ring carried by said cap and having a threaded opening therein in substantial alinement with said bearing seat, a threaded member adjustable in said threaded ring, and means for holding said threaded member in adjusted position.

1,339,992. BALL AND METHOD OF MAKING THE SAME. CHARLES C. WAIS, Cincinnati, Ohio. Filed July 30, 1917. Serial No. 183,456. 8 Claims. (Cl. 154—16.)



1. A ball of the character described comprising a metal shell adjacent to the outer surface of the ball, a vitreous filler in said shell, and a hard resilient cover about said shell.

1,339,993. COMBINED TYPEWRITING AND COMPUTING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Nov. 22, 1918. Serial No. 263,667. 24 Claims. (Cl. 235—59.)



1. The combination of a carriage, a column-stop, actuating mechanism for said stop, and means controlled by said carriage to determine the extent of actuation of said actuating mechanism to set said column-stop to any one of a plurality of effective positions.

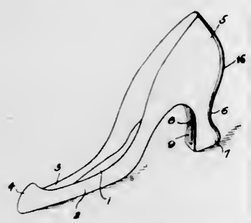
4. The combination of a carriage, a column-stop on said carriage, actuating mechanism for said stop, a totalizer, and means controlled by said totalizer to determine the extent of actuation of said actuating mechanism to set said column-stop to any one of a plurality of effective positions.

15. The combination of a carriage, column-stops, a coöperative stop, a carriage escapement, means to vary the feed of said carriage, a key, and means to control said key, so that said stops may be set in any one of two effective positions, so as to be engaged in both effective positions by the coöperating stop, said stops being effective when set in one of said effective positions to engage with the escapement-feed varying means.

1,339,994. OVERSHOE. HERMAN WESTLING, Hudson, Mass. Filed Feb. 2, 1920. Serial No. 355,740. 6 Claims. (Cl. 36—5.)

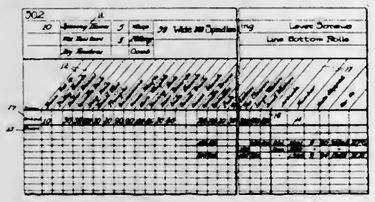
3. An overshoe comprising a heel having a tread portion and a neck portion of smaller cross sectional area

than said tread portion, the wall of the breast of the heel being provided with a slit and the walls of the slit con-



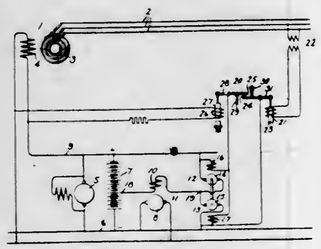
nected by an elastic material adapted to allow sufficient expansion of the neck to permit the instroduction of the heel.

1,339,995. RECORD-FORM. GEORGE WILMOT, Linwood, Mass. Filed Nov. 23, 1918. Serial No. 263,898. 3 Claims. (Cl. 283—66.)



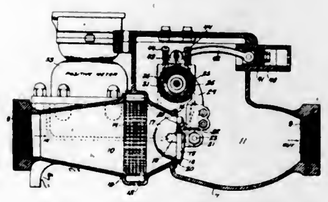
1. A record form having a heading column with the names of several subjects printed therein, and delineated blank spaces adjacent thereto for receiving data indicating to which subject the record is to relate and the quantity, said form bearing columns provided with headings under said heading columns indicating all the parts or articles required to make up the complete subjects named in the heading column, and a row of spaces just under said headings designated by said headings to receive entries showing the entire number of parts or articles required to fill an order indicated in the blank spaces adjacent to the heading column.

1,339,996. REGULATING SYSTEM. FRED H. WINTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,315. 6 Claims. (Cl. 171—229.)



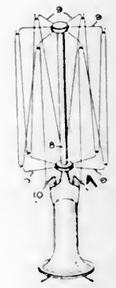
1. A regulating system comprising a regulating generator, a source of electromotive force having three terminals, each of which is at a different potential with respect to the other terminals, connections between one of said terminals and one end of the field coil of said regulating generator, two counter electromotive force machines having their armatures connected in series across the other two of said terminals, the other end of said field coil being connected to a point between the armatures of said machines, and means for varying the fields of said machines to continually reverse the field current of said regulating generator.

1,339,997. FLUID-MEASURING DEVICE. ALBERT BALDWIN WOOD, New Orleans, La., assignor of one-third to Charles Arthur Brown, Lorain, Ohio, and one-third to Geo. G. Earl, New Orleans, La. Filed May 31, 1916. Serial No. 100,845. 9 Claims. (Cl. 277—20.)



3. In a fluid flow regulating apparatus, the combination of a pair of valves, one of which controls the other, one of said valves consisting of a spherical-section shaped valve member controlling a circular opening and the other consisting of a curtain controlling an isosceles triangular slot and normally closing the same, the curtain extending from apex to base of the triangle when operated.

1,339,998. SHAPED FILAMENT. DANIEL K. WRIGHT, Paterson, N. J., assignor to General Electric Company, a Corporation of New York. Original application filed Apr. 15, 1914, Serial No. 832,121. Divided and this application filed Sept. 10, 1917. Serial No. 190,512. 5 Claims. (Cl. 176—40.)

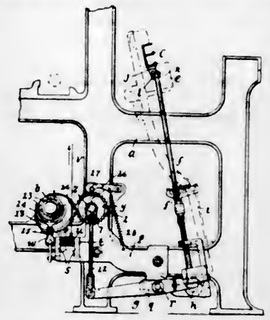


1. A shaped wire of uniform cross section having certain portions which are more flexible than other portions and adapted to be mounted in an incandescent lamp to form a continuous filament having a plurality of loops.

1,339,999. BOX-OPERATING MECHANISM. WILLIAM ZEEDYK, Paterson, N. J., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed May 5, 1919. Serial No. 294,927. 3 Claims. (Cl. 139—28.)

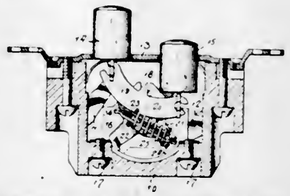
2. In combination, a supporting structure including a rotary element, a shiftable shuttle box structure, means to impart shifting motion to said box structure including a pair of gears having parallel axes and arranged one on said element and shiftable thereon into and out of the plane of the other gear and adapted to mesh therewith when in said plane, a stop device to limit the shifting

movement of the shiftable gear in one direction, said stop device being arranged on said element and adjustable



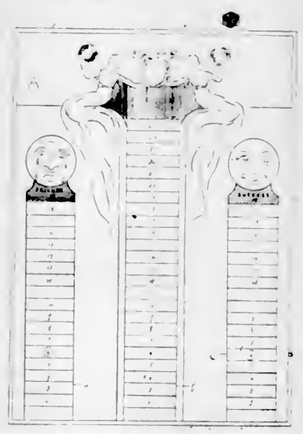
thereon in the opposite direction, and yielding means normally urging said shiftable gear toward the stop device.

1,340,000. SPRING-OPERATED MECHANISM. CARL ERIC ANDERSON, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Sept. 20, 1918. Serial No. 254,957. 5 Claims. (Cl. 200—72.)



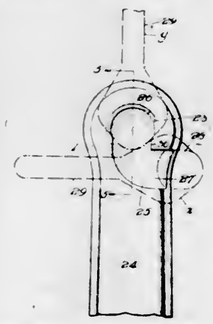
1. An operating mechanism comprising a pair of rocking members, spring abutments moving therewith, and an operating coil spring interposed between said abutments in combination with a guide surrounded by said spring and comprising a pair of spaced straps offset into free juxtaposition at one end and engaging at said end one of the spring abutments, the other of said abutments lying between the straps and working in their spaced area against the other end of the coil spring.

1,340,001. GAME. MADELEINE A. BARTLETT, Boston, Mass. Filed Aug. 20, 1919. Serial No. 318,623. 3 Claims. (Cl. 46—63.)



1. A game comprising a board containing a plurality of paths having distinguishing indicia and subdivided from end to end into a series of progressively numbered divisions, a series of counters bearing distinguishing indicia for movement on the different paths, and dice whose faces have different numbered indicia said faces also having distinguishing marking in correspondence with the different paths on the board to indicate the location of the different counters, substantially as described.

1,340,002. ANCHOR SHANK AND SHACKLE. WILLIAM M. BATEMAN, Chester, Pa. Filed Dec. 30, 1919. Serial No. 348,457. 3 Claims. (Cl. 114—206.)



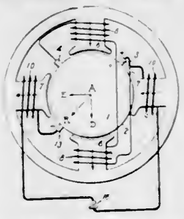
1. An anchor shank and shackle in which the shank has grooves in the sides thereof, said grooves for a portion of their length extending substantially in the direction of the length of said shank and being undercut in a substantially circular path at their tops, other portions of said grooves extending at an angle toward one side of the shank to provide entrance openings, said shackle having lugs undercut at their upper portions and adapted to be slid into the upper portions of said grooves in the shank through the entrance openings; substantially as described.

1,340,003. WATCH. PHILIP BENJAMIN, New York, and SAMUEL BURGER, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,354. 5 Claims. (Cl. 58—88.)



1. In combination, a watch casing formed with an edge aperture, a works-frame adapted to be inserted into and removed from said casing through said edge aperture, in alinement with the mean plane of said casing, and means for detachably securing said casing and works-frame together, said casing forming the case for the works-frame, for the purpose described.

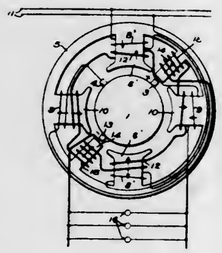
1,340,004. DYNAMO-ELECTRIC MACHINE. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 20, 1919. Serial No. 305,554. 12 Claims. Cl. 171—223.)



9. In a constant speed dynamo-electric machine, an armature provided with a commutator, load brushes and

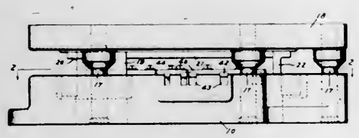
an auxiliary brush bearing on said commutator, a field magnet structure having two sets of field poles, one of said sets of poles being arranged to produce a substantially constant voltage between said auxiliary brush and one of said load brushes and the other of said sets of poles being arranged so that the armature reaction varies the flux therein and produces a voltage between said auxiliary brush and the other load brush which varies with the armature reaction, the voltage between the load brushes being equal to the algebraic sum of the voltages between said auxiliary brush and each of said load brushes and varying when the load current varies and a field winding on said first mentioned set of poles connected between said auxiliary brush and one of said load brushes.

1,340,005. DYNAMO-ELECTRIC MACHINE. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 3, 1916. Serial No. 112,940. Renewed December 15, 1919. Serial No. 344,976. 19 Claims. (Cl. 171—223.)



14. In a dynamo electric machine, an armature provided with a commutator, load brushes and an auxiliary brush bearing on said commutator, a field magnet structure having two sets of field poles, one of said sets of poles being saturated and arranged to induce a voltage between said auxiliary brush and one of said load brushes, the other set of poles being unsaturated so that the flux therein is varied in accordance with variations in the excitation thereof, and field windings on said unsaturated field poles connected between said auxiliary brush and one of said load brushes.

1,340,006. UNIVERSAL DIE. EDWARD H. BRANSON, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 3, 1918. Serial No. 252,487. Renewed Mar. 19, 1920. Serial No. 367,123. 6 Claims. (Cl. 164—29.)



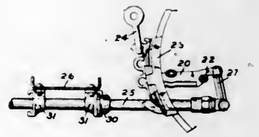
1. The combination with a relatively movable die and punch having coöperating L-shaped configurations of fixed dimensions, of means for adjusting the distance the stock can be advanced during a stroke, means for adjusting the proportions of the stock on the two sides of the knee of the L, and means for adjusting and controlling the angular direction in which the stock is fed under said punch.

1,340,007. METAL BRAKE-BEAM. THOMAS L. BURTON, St. Louis, Mo., assignor to American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 1, 1915. Serial No. 18,521. 2 Claims. (Cl. 188—219.)



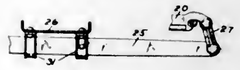
1. A brake beam composed of a standard commercial shape, the ends of which are forged to provide a cylindrical trunnion at each end, substantially as described.

1,340,008. BRAKE-BEAM SUPPORT. THOMAS L. BURTON, St. Louis, Mo. Filed Sept. 11, 1918. Serial No. 253,529. 5 Claims. (Cl. 188—213.)



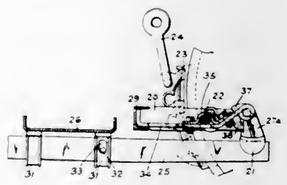
1. In a brake beam suspension, the combination of a bracket attached to the spring plank and having an opening, a safety bar extending through said opening and beneath the brake beam, a flange and groove connection between the bracket and safety bar, adapted to be locked against longitudinal movement by a partial rotation of said bar, and a supporting link for the brake beam pivotally connected at the end of said bar.

1,340,009. BRAKE-BEAM SUPPORT. THOMAS L. BURTON, St. Louis, Mo. Filed Sept. 11, 1918. Serial No. 253,530. 3 Claims. (Cl. 188—213.)



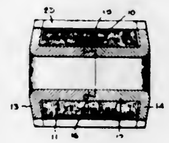
1. In a brake beam suspension, the combination of a supporting bracket having a circular opening, a safety bar extending through the bracket and beneath the brake beam, a sectional filling block mounted on said bar within the opening in the bracket, and a pin and slot connection for locking the filling block within the bracket by a partial rotary movement.

1,340,010. BRAKE-BEAM SUPPORT. THOMAS L. BURTON, St. Louis, Mo. Filed Oct. 3, 1918. Serial No. 256,637. 6 Claims. (Cl. 188—213.)



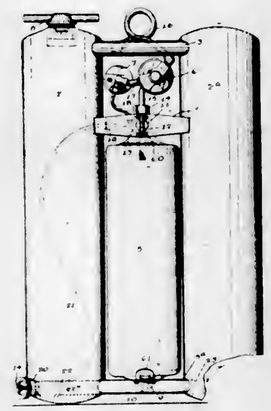
1. In a brake beam suspension, the combination with a trussed brake beam, of a safety bar extending beneath the brake beam, a bracket connected to the compression member and to the tension rod of the brake beam, at one side of the center of the beam, and a supporting member for said bracket mounted on the safety bar.

1,340,011. GEAR, ROLL, AND THE LIKE. JAMES H. CARVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 18, 1918. Serial No. 245,480. 4 Claims. (Cl. 74—41.)



1. In an apparatus of the character described, the combination of an annular body element of compressible material, a holder comprising two parts which are located within the bore of said element with their edges meeting therein, said parts having flanges which engage said body element, and an annular tongue and groove connection between said meeting edges, said tongue and groove having inclined engaging surfaces which serve to draw the parts of the holder together when the same is being assembled.

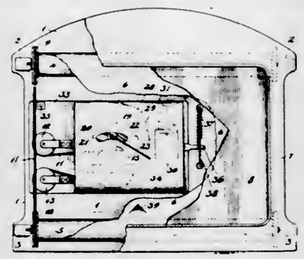
1,340,012. FLAME-PROJECTOR APPARATUS. HENRY CAVE, Elizabeth, and JAMES L. ANDERSON, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1918. Serial No. 231,290. 20 Claims. (Cl. 158—28.)



8. In a flame-projector apparatus, the combination of an oil tank, a discharge conduit leading therefrom, a gas tank, and an ignition conduit leading from the gas tank into the interior of the oil tank and thence outward through the discharge conduit.

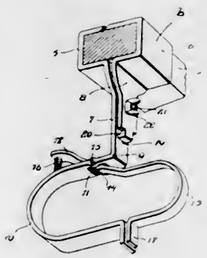
1,340,013. APPARATUS FOR UTILIZING THE TREPIDATIONS OF VEHICLES. MARIO AUGUSTO CANALE and RICARDO FRIAS, Buenos Aires, Argentina. Filed Jan. 4, 1919. Serial No. 269,717. 5 Claims. (Cl. 185—30.)

1. An apparatus for utilizing the trepidations of vehicles, comprising a casing mounted to swing and having means for yieldingly limiting the swinging movement thereof, a power wheel, a pivoted lever, a resiliently supported weight, an operative connection between the lever



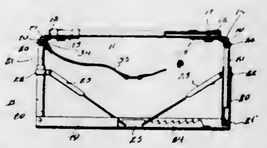
and weight, and means for operating the power wheel upon the vibration of the casing, lever and weight.

1,340,014. CLOTHES-HOOK. ALBERT B. CLAFLIN, Toledo, Oreg. Filed Dec. 9, 1919. Serial No. 343,669. 3 Claims. (Cl. 45—13.)



1. An attachment of the character described comprising a pair of jaw members having shanks of different length relative to each other, one of the shanks being engaged with the other shank, means engaged in the shank for drawing the jaw members into position for clamping engagement with a part, a stationary hook on the longer shank, a spring held movable hook pivoted in the stationary hook and coöperating therewith.

1,340,015. HAMMOCK OR BED CONSTRUCTION. ALBERT B. CLAFLIN, Toledo, Oreg. Filed Dec. 9, 1919. Serial No. 343,670. 1 Claim. (Cl. 5—72.)

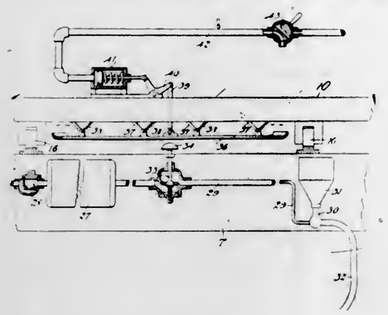


A hammock or bed construction comprising spaced side rails, connectors engaged with the side rails, tubular end rails adjustably engaged in the connectors, means for fastening the end rails to said connectors, a flexible web engaged with the rails, rests at one end of the side rails, extensible supports connected with the side rails at the other ends thereof, adjustable braces in said support and a bottom channeled rail included in said support and having a toothed rack to be adjustably engaged by the braces.

1,340,016. LOCOMOTIVE-CRANE SANDER. THOMAS H. COCHRANE, Jersey City, N. J. Filed July 24, 1919. Serial No. 312,953. 8 Claims. (Cl. 291—16.)

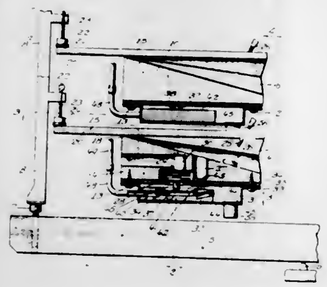
5. A locomotive crane sander designed for installation on the turn-table and car frame of said locomotive, com-

prising in combination; track sanding means installed on the locomotive frame, and mechanism mounted on the



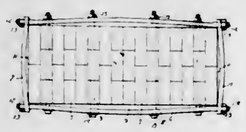
turn-table to govern the track sander means from any rotated position of the turntable.

1,340,017. PNEUMATIC ACTION FOR MUSICAL INSTRUMENTS. WILLIAM C. COLLIGNON, Chicago, Ill. Filed Nov. 27, 1918. Serial No. 264,290. 4 Claims. (Cl. 84—178.)



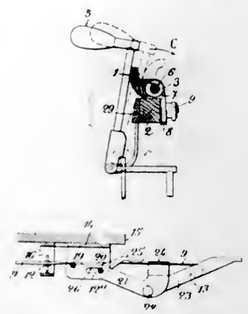
4. A structure substantially as described having in combinative association a channel, 32, with integral side flanges, 33; a top plate, 34, overlying both flanges and having perforations, 34', at intervals; a series of actions uniformly spaced apart and supported on said top plate, each action having a perforation registering with the perforation in said plate; a diaphragm strip, 40, removably positioned in said channel, having diaphragm covered depressions concentric with the respective registering perforations, and a valve, concentric with said perforations and depressions, operable by said diaphragm to alternatively close and open said perforations.

1,340,018. CUTTING-BLOCK. CHARLES F. CONNOR, Marlboro, Mass. Filed July 12, 1919. Serial No. 310,509. 4 Claims. (Cl. 164—58.)



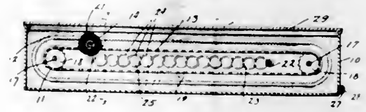
1. A cutting block formed of a plurality of individual blocks, side and end bars securing said blocks together, and hard wood inserts interposed between each of said side and end bars and said blocks, said hard wood inserts extending throughout the length of the sides and ends of the block, substantially as described.

1,340,019. EXPRESSION MECHANISM FOR MECHANICAL PIANOS. CAMILLE CONTAL, St. Cloud, and EDOUARD REQUILLART, Paris, France. Filed May 22, 1915. Serial No. 29,797. 6 Claims. (Cl. 84—61.)



6. In expression mechanism for mechanical pianos, in combination a series of movable members adapted for limiting the travel of the hammers, a support, studs mounted on said support, a series of keys pivotally mounted on said studs, a series of transmission members connected at one end respectively to said movable members, arranged in a transverse row, connected at one end to said movable members, adapted for actuating them, connected at the other end to said keys, a flexible strip extending transversely of and above the row of transmission members, said flexible strip adapted to be deflected at different portions of its length and thereby actuate the transmission members respectively placed therebelow.

1,340,020. EGG-WASHER. MARGARET J. CORCORAN, Scranton, Pa. Filed Oct. 3, 1917. Serial No. 194,536. Renewed Oct. 22, 1919. Serial No. 332,576. 8 Claims. (Cl. 146—14.)



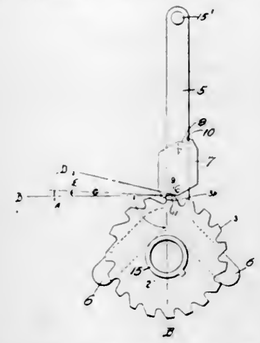
6. An egg cleaning machine including egg supporting means and an orbitally movable cleaning element arranged to contact successively with the opposite sides of eggs in the supporting means.

1,340,021. OPHTHALMIC-LENS BLANK. ANDREW JAY CROSS, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,430. 4 Claims. (Cl. 88—54.)



1. As an improved article of manufacture, an ophthalmic lens blank comprising two members one thicker than the other, fused together edge to edge into an integral whole, the thicker member being unground on its two surfaces, the other or thinner member having one of its surfaces unground and the other surface finished and polished before fusing, the two members joining one another in such a manner that the thicker of the two members will overhang the edge of the thinner.

1,340,022. CUTTER-CLEARANCE GAGE. WILLIAM DALLAS, Philadelphia, Pa. Filed Apr. 17, 1919. Serial No. 290,683. 4 Claims. (Cl. 33—201.)

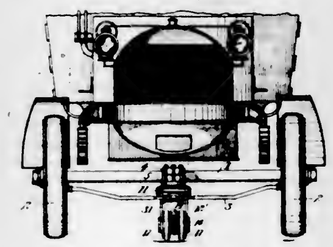


1. In a cutter clearance gage for testing the cutting faces of milling cutter tools, the combination with a handle member, receptive means formed integral with the handle for centering the gage upon a mandrel, a slide disposed upon the handle, and having a cutter tooth test face formed in the slide adapted to indicate the proper angle of the milling cutter tooth.

1,340,023. HEAD FOR BARRELS AND OTHER SIMILAR RECEPTACLES. LEIGH H. DAVEY, Jersey City, N. J. Filed Apr. 22, 1919. Serial No. 291,848. 12 Claims. (Cl. 217—76.)

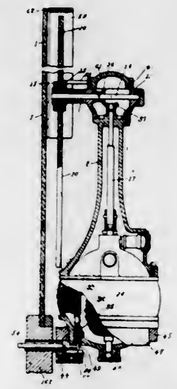
1. A closure for barrels and other like receptacles of the same material as such receptacles consisting of a body portion composed of one or more thin pieces of such material made in circular form and placed together with the grains of the material at right angles and a flange at the periphery of such body portion provided with means of attaching it to such body portion and a projecting compressible portion adapted when the closure is forced into place to be compressed by the narrowing of the end of such receptacle.

1,340,024. AUXILIARY TRACTOR FOR MOTOR-VEHICLES. GEORGE H. DAVIS, Portland, Me., and WILLIAM G. GRIFFIN, Washington, D. C., assignors, by direct and mesne assignments, of one-half to said Davis and one-half to Edward T. Burrowes, Portland, Me. Filed Jan. 11, 1915. Serial No. 1,611. Renewed Apr. 26, 1919. Serial No. 293,016. 3 Claims. (Cl. 180—1.)



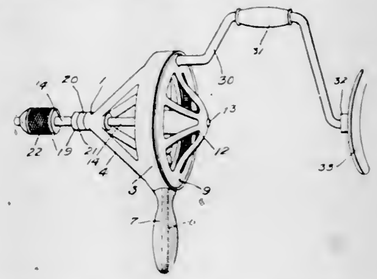
1. The combination with a vehicle of an auxiliary tractor device therefor, said device including a bracket pivotally secured to an axle of the vehicle to swing about a vertical axis, said bracket comprising a pair of vertical side members, a horizontal shaft passing through the lower end of said members, a pair of rigidly united, spaced ground wheels mounted on said shaft between said side members, a worm wheel located between said ground wheels and rigid therewith, and a horizontal worm engaging said worm wheel and journaled in said bracket.

1,340,025. VISUAL WEATHER-SCREEN. SAMUEL AUGUSTINE DE NORMANVILLE, Ealing, and LESLIE HARCOURT KENT, Stanmore, England. Filed Dec. 10, 1918. Serial No. 266,173. 3 Claims. (Cl. 296—84.)



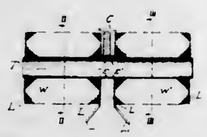
1. A visual weather screen comprising a transparent disk having a spindle, a pedestal for supporting said spindle, means for driving said spindle comprising an electric motor, said pedestal being carried by said motor, a flange on said motor, a bracket adapted to embrace said flange to support said motor, said bracket having contacts in connection with a source of electric current and being adapted to make contact with the terminals of the motor when said motor is placed on said bracket, substantially as and for the purpose hereinbefore set forth.

1,340,026. MANUALLY-OPERATED ROTARY DEVICE. FRANK W. DREWS, Willmar, Minn. Filed Nov. 28, 1919. Serial No. 341,142. 1 Claim. (Cl. 145—68.)



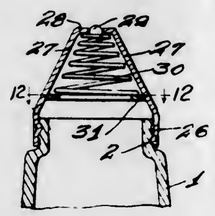
A manually operable rotary device comprising a frame having an annular portion and a sleeve offset from said annular portion and fixed thereto through the medium of interposed braces and also having a handle extending radially outward from said annular portion, a spindle journaled in the said sleeve and connected with a device it is designed to rotate, a gear on said spindle, an annular interiorly toothed gear bearing and revoluble in the annular portion of the frame and connected with the first-named gear, and a crank fixed to said annular interiorly-toothed gear.

1,340,027. ELECTROCONDUCTING-COIL. CHARLES W. DUNHAM, Edgewood borough, Pa., assignor to the Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 6, 1917. Serial No. 152,765. 2 Claims. (Cl. 175—21.)



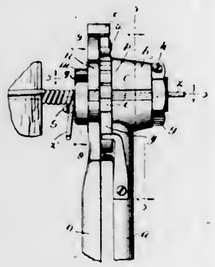
1. In combination, a single electro-conducting coil comprising two sections similarly wound and each having both terminals at the same end, said sections being mounted in axial alinement and in spaced relation, and arranged so that the terminal ends are in juxtaposition, the inner ends of the two sections being electrically joined, and a continuous core of magnetizable material fixed with relation to said sections and passing through said sections and through the space between the sections.

1,340,028. FLUID DISPENSER AND SPREADER. JEREMIAH ERWIN, Chicago, Ill. Filed June 20, 1918. Serial No. 240,905. 3 Claims. (Cl. 91—67.4.)



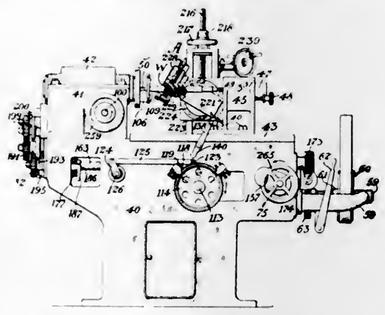
1. The combination with a mucilage bottle, of an apertured head removably secured thereon, a stopper within said head, a spring for holding said stopper seated normally to close the aperture in said head, and means within said head for supporting said spring independently of said bottle.

1,340,029. WIRE-WRAPPING TOOL. OSWALD FACHMAN, Lindsey, Ohio. Filed Dec. 18, 1919. Serial No. 345,829. 3 Claims. (Cl. 140—122.)



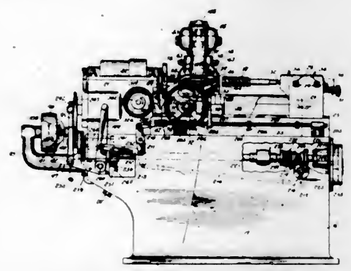
1. In a wire-wrapping tool, a pair of levers each carrying a pawl, a ratchet-wheel arranged between the levers and having hubs on which said levers are journaled, said levers and ratchet-wheel and hubs being radially slotted, a hook-carrying disk journaled in said ratchet-wheel and provided with a shaft having a main-strand-receiving groove extending its full length, said disk being provided with a radial slot, means being provided to permit the disk to have a limited rotary movement independent of the ratchet-wheel hubs.

1,340,030. WORM-GRINDING MACHINE. DAVID FITZPATRICK, Cleveland, Ohio, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Filed Aug. 2, 1915. Serial No. 43,175. 106 Claims. (Cl. 51—4.)



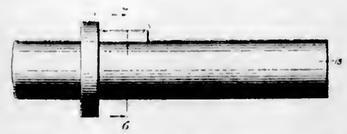
1. In a device of the class described, a support, a tool carriage mounted on said support, three superimposed members, the bottom member guided for longitudinal movement along said support, the intermediate member guided for movement transversely of the movement of the bottom member and a top member adjustably mounted on said intermediate member, a bracket slidably mounted for vertical movement on said top member, a tool spindle carriage mounted on the front of said bracket for rotary adjustment about a horizontal axis and a tool spindle mounted for rotary movement in said spindle carriage.

1,340,031. THREAD-GRINDER. DAVID FITZPATRICK, Cleveland, Ohio, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 22, 1918. Serial No. 241,405. 35 Claims. (Cl. 51—4.)



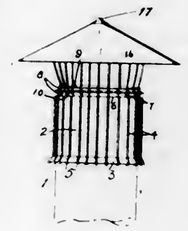
1. In a device of the class described, the combination of a supporting structure, work supporting and revolving means carried by said structure, a power shaft mounted in said structure for rotation about a fixed axis, a grinding tool carriage mounted on said structure so as to be shifted along the length of the work to be ground, means actuated from said power shaft fixed in the structure for shifting the carriage, a grinding tool moved bodily by the shifting of said carriage and a continuous shaft-and-gear drive connecting said shiftable tool with said fixed axis-power-shaft whereby a positive continuous mechanical drive is provided between the shaft and tool in all operative positions of the tool relative to the work carried by the work-supporting-and-revolving means.

1,340,032. AXLE RECONSTRUCTION. JAMES R. FLEMING, Scranton, Pa. Filed Aug. 8, 1918. Serial No. 248,999. 1 Claim. (Cl. 29—148.)



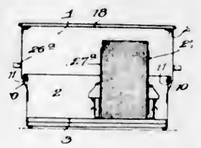
A method of reconstructing axles, consisting in adding a spline to an axle by welding supporting metal between the body of said spline and the body of said axle; and then shaping the added metal to conform with the design of said spline.

1,340,033. STOVEPIPE-CAP. PETER FOJTIK, Fayetteville, Tex. Filed May 8, 1919. Serial No. 295,713. 3 Claims. (Cl. 98—4.)



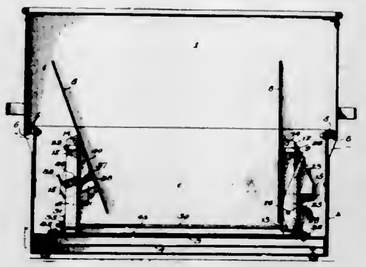
3. A stove pipe cap comprising a tubular member adapted to fit over a stove pipe, said tubular member having an outwardly and downwardly extending flange at its bottom, a series of wires radially disposed for forming a cage above the tubular member, the lower ends of said wires being bent over the flange of the tubular member, said wires conforming to the contour of the outer wall of the tubular member and being bent substantially at right angles over its upper edge, thereby forming shoulders for limiting the downward movement of the tubular member on the pipe, said wires adjacent the inner ends of the right angle portions being bent so as to form compound curves, wires above the compound curves extending outwardly, upwardly and inwardly and terminating in horizontal portions radially arranged, a cap piece disposed on the horizontal portion, a bolt passing through said cap piece and between the upper ends of the wires, said bolt also passing through a plate under the ends of the wires and forming means for clamping the cap and wire ends and spacing means comprising horizontally arranged rings engaging the outer and inner sides of the wires, the rings engaging the inner sides being provided with convolutions.

1,340,034. FILE-BOX. HENRY C. FOSBERG, Jamestown, N. Y., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y., a Corporation of Massachusetts. Filed July 15, 1918. Serial No. 244,953. 10 Claims. (Cl. 129—16.)



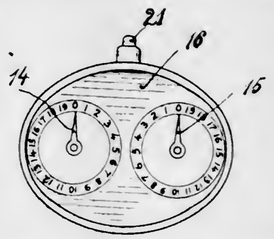
1. A file box comprising upper and lower sections telescopically assembled, and a follower mounted in the lower box section.

1,340,035. FILE-BOX AND FOLLOWER. HENRY C. FOSBERG, Jamestown, N. Y., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y., a Corporation of Massachusetts. Filed Sept. 4, 1918. Serial No. 252,537. 5 Claims. (Cl. 129—16.)



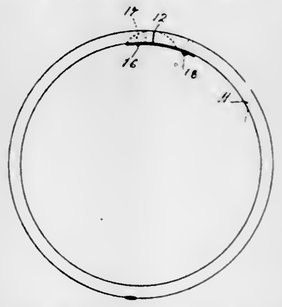
2. A follower comprising a slide, a frame rising therefrom, a follower plate or leaf hinged to the frame, and means for supporting the plate or leaf in a tilted position against pivotal movements in opposite directions.

1,340,036. MOTION-REGISTERING APPARATUS. LUDVIG THEODOR FOSS, Sandefjord, Norway. Filed Oct. 1, 1919. Serial No. 327,800. 3 Claims. (Cl. 235—105.)



2. In motion registering apparatus the combination of a pendulum swinging in two planes at right angles to each other with two registering mechanisms opposed to each other in such way that on turning the apparatus in one direction the right hand registering mechanism is operated by said pendulum, and on turning the apparatus in the opposite direction the left hand registering mechanism is actuated correspondingly.

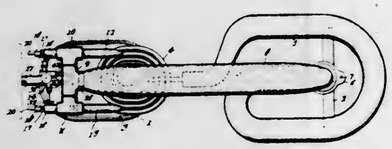
1,340,037. PROCESS OF MAKING PISTON-RINGS. AXEL A. FOSSTON, Minneapolis, Minn., assignor to Seal-Tite Piston Ring Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 24, 1918. Serial No. 246,475. 3 Claims. (Cl. 29—156.1.)



1. The process of making piston rings which consists in turning a blank ring, in cutting the same transversely

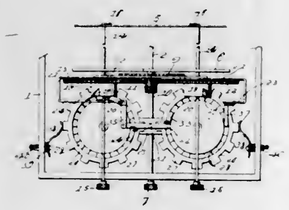
at one place to form an extensible split ring, in cutting blade seats in the split ends of the ring, in applying a joint blade in the seats thus formed, and thereafter, turning the ring to eccentric form, thereby reducing the thickness of the ends of the ring and cutting away or flattening the outer portion of the joint blade.

1,340,038. VAPOR OIL-BURNER. CHARLES W. TURNBULL and JOHN HENRY FOX, Albert Lea, Minn. Filed Oct. 29, 1919. Serial No. 334,138. 8 Claims. (Cl. 158—53.)



8. An improved vapor oil burner including a base, a generating pan at one end of said base, a cross piece at the other end of the base, a generating coil above said pan in communication with a source of oil supply, a vaporizing coil having its convolutions supported by said cross piece and having its inner end secured thereto, the inner end of said vaporizing coil having an upwardly opening outlet, a pressure cylinder having a down turned end in communication with the outlet of said vaporizing coil, a standard adapted to support the forward end of said cylinder, and a pair of torches at opposite sides of said cylinder and in communication therewith for directing their flames above said coils, substantially as described.

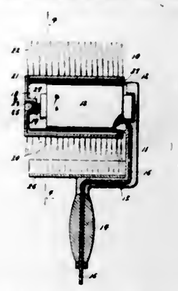
1,340,039. TIME-CONTROLLED SWITCH. LEXIE L. FULLER, Pine Bluff, Ark. Filed July 14, 1919. Serial No. 310,627. 5 Claims. (Cl. 200—37.)



1. In a time controlled switch, a pair of gear wheels, a cam ring carried by each gear wheel, a spindle on which each gear wheel is rotatably mounted, a pin carried by each spindle against which the cam member of its attendant gear engages, a circuit closing disk, and means rendered operative for turning the disk when either cam member reaches a certain position with respect to the pin on its attendant spindle.

1,340,040. BRUSH. JOSEPH GASSER, Trenton, N. J. Filed Aug. 23, 1918. Serial No. 251,167. 1 Claim. (Cl. 15—37.)

A brush holder comprising a frame, a motor casing carried by the frame and rigid with the latter, said motor casing projecting from one side of the frame, a handle on the frame, a brush body loosely encircling the casing and disposed to one side of the frame, and a segmental shield interposed between the handle and the brush body, said



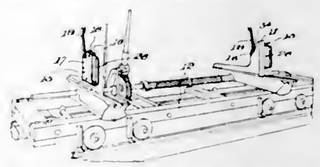
handle being disposed in offset relation to the frame, and lying in the central transverse plane of said casing, brush body and said shield.

1,340,041. METHOD OF THE MANUFACTURING AND ADJUSTMENT OF CONTACT-PLATES IN SWAN-LAMP BASES. HUIBERT CORNELIS GHIJSEN, Middelburg, Netherlands, assignor to N. V. Vitrite Works, Middelburg, Netherlands, a Limited Liability Company of The Netherlands. Filed Apr. 18, 1919. Serial No. 291,153. 2 Claims. (Cl. 18—59.)



1. Improvements in the method of production and adjustment of contact plates, which are each in the form of a twin contact plate, the said contact plates are brought into the plunger head and are there split apart, the portion of the connecting strip remaining on each contact plate being bent up against the side of a small anvil provided in the plunger head, the said contact plates being pressed down by a core piece with forked ends movable in the plunger head until pins fixed to the mold, in which the lamp base is pressed pass through holes formed in the contact plates.

1,340,042. SAWMILL ATTACHMENT. WILLIAM HUGH GILMOUR, St. Landry, La. Filed Aug. 4, 1919. Serial No. 315,199. 9 Claims. (Cl. 143—122.)



1. The combination with a saw mill including log engaging and moving knees, of housings detachably carried

by said knees, knee blocks adjustably carried by said housings and movable for adjusting the positions of their log engaging faces relative to the faces of the knees.

1,340,043. FOUNTAIN-BRUSH. WALTER GRACE, Auckland, New Zealand, assignor to Fountain Toothbrushes Limited, Auckland, New Zealand, a Corporation. Filed June 6, 1919. Serial No. 302,131. 5 Claims. (Cl. 221—79.)

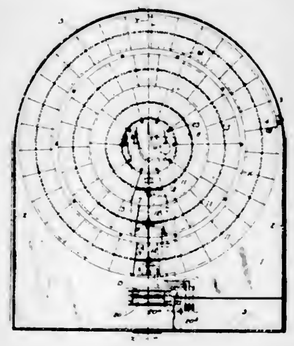


1. In a fountain brush adapted to receive material to be discharged: a tubular handle element, a turnable feed element, one of said elements being longitudinally slotted to yield radially relatively to the other, and means adapted to cause discharge of the material by the turning of said turnable feed element.

1,340,044. PROCESS FOR SPINNING ARTIFICIAL-SILK WASTE. WILLIAM R. D. HALL, Narberth, Pa., assignor to S. Feather Company, a Corporation of Delaware. Filed June 26, 1918. Serial No. 242,111. 2 Claims. (Cl. 13—5.)

1. The process of producing yarn of very fine diameter from artificial silk waste, said process consisting in mixing artificial silk waste with real silk waste in the proportion of about 82 per cent. of the former and 18 per cent. of the latter, treating the mixture with oil, and spinning such treated mixture.

1,340,045. GARAGE. EDWARD M. HAMILTON and MARK HAMBURGER, Baltimore, Md. Filed Aug. 26, 1919. Serial No. 319,947. 2 Claims. (Cl. 20—1.13.)



2. A garage comprising a plurality of concentric individually rotatable platforms, each having an outlet, compartments mounted radially thereon having solid back walls, the door openings of the inner compartments being closed by the solid wall of the next outer compartment except when the next outer compartment is rotated to bring its outlet in alinement with the desired inner compartment.

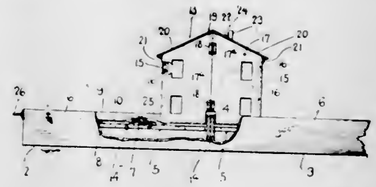
1,340,046. MAIL-DISTRIBUTING DEVICE. ROBERT J. HANKINS and ISAAC W. H. HANKINS, Tazewell, Va. Filed October 10, 1919. Serial No. 329,731. 2 Claims. (Cl. 104—20.)

1. An uncoupling device adapted to be actuated by the wheels of a series of wheeled receptacles mounted on a track, said uncoupling device comprising a tread member adapted to be forced down by the wheels of the series of wheeled boxes, said tread moving out of registration with uncoupling mechanisms carried by the wheeled receptacles,



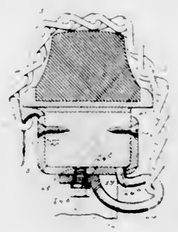
arms which are normally in registration therewith and means whereby as the wheels of the rear wheeled receptacle pass out of engagement with the tread said uncoupling means will be thrown into registration with the uncoupling means of the last car.

1,340,047. TOY HOUSE. LOUIS SUMNER HANSEN, Pittsburgh, Pa. Filed Dec. 15, 1919. Serial No. 344,916. 4 Claims. (Cl. 46—37.)



1. In combination with a case comprising two hingedly connected sections, a house of foldable construction, and means for connecting said house to the sections of the case so as to be extended by the act of opening the case and folded by closing of the case so as to be positioned within the same.

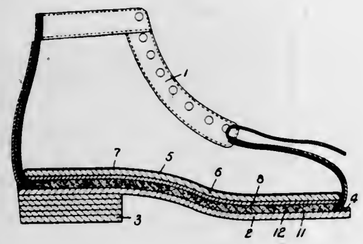
1,340,048. NON-SKID FOR WHEELS. FRANK HUDA, Perth Amboy, N. J. Filed Feb. 8, 1919. Serial No. 275,840. 2 Claims. (Cl. 24—231.)



1. In an anti-skid attachment for wheels, a rigid metallic clip having parallel end portions and an intermediate flat connecting portion, said flat connecting portion having a pair of holes one of which is tapped, a chain engaging loop having one end slipped into one of said holes while the other end has a hole registering with the tapped hole, a detachable fastener passing through the latter mentioned loop into the tapped hole and serving thereby to hold both ends of the loop in the position indicated while the mid portion of the loop projects laterally beyond both end portions thereof, and means carried by the

remote end portion of the clip to engage and hold another link of the chain, said last mentioned means comprising a hook formed upon one corner of said end portion and extending thence outward parallel to the edge of the end portion and hence at one side of the center of the same.

1,340,049. BOOT AND SHOE. JEAN BAPTISTE HUBTEAU, Terrebonne, Quebec, Canada. Filed Aug. 25, 1919. Serial No. 319,817. 4 Claims. (Cl. 36—44.)

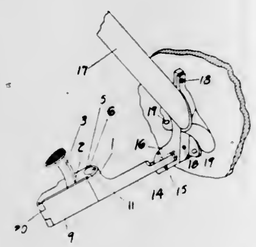


1. An inner sole for a boot or shoe, comprising a cushion pad, a lining disposed against one side of the pad, a covering disposed over the other side nf the pad and overlapping the same at its margin, and means securing said lining and the overlapping marginal portion of said covering together; said means uniting with said overlapping portion in forming an attaching flange for securing the inner sole to the welt of the boot or shoe.

1,340,050. PROCESS OF REMOVING THE ODOR FROM FISH-OIL. UNJI IOKA, Sakai, Osaka-Fu, Japan. Filed Feb. 10, 1919. Serial No. 276,206. 1 Claim. (Cl. 87—12.)

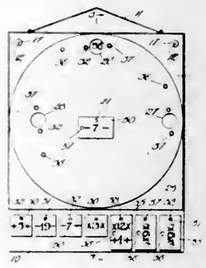
The herein described process for removing the odor from fish oil which consists in mixing the oil to be treated with saw-dust of cypress, saw-dust of cedar, and green cedar leaves; subjecting the mixture to heat; cooling; filtering; and then exposing the filtered oil to sunlight, subtsantially as described.

1,340,051. AUTOMOBILE-LOCK. AVIS JACKSON, East St. Louis, Ill. Filed May 10, 1919. Serial No. 296,127. 4 Claims. (Cl. 70—128.)



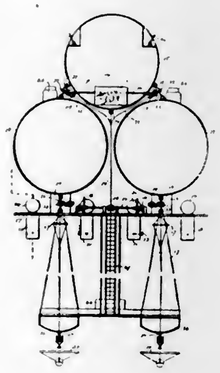
1. In combination with an automobile and its clutch lever, a lock for the same, comprising a segmental anchor collar adapted to interlock around the steering post and attach to the floor; a lever clamp, pivoted forwardly to said anchor collar and ending rearwardly in two hingedly connected jaws adapted to close together over said lever, one of said jaws having a mortised bolt-lug, and the other jaw being mortised out to receive a mortise-lock and said bolt-lug and lever; and a mortise-lock permanently set within its mortise in said jaw, with its bolt adapted to engage said mortised bolt-lug, to lock said jaws of said lever-clamp together over said lever.

1,340,052. APPARATUS FOR TEACHING ARITHMETIC. ROY A. JACKSON, Springfield, N. J. Filed Feb. 25, 1920. Serial No. 361,087. 5 Claims. (Cl. 35—2.)



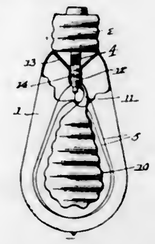
1. An apparatus for teaching arithmetic, comprising a foundation sheet having on its face spaced numerals arranged in a circle, a revoluble display disk in front of the said foundation sheet and having its center coinciding with the center of the said circle, the disk having an opening adapted to register with and display any one of the said numerals on rotating the disk, and a card adapted to be displayed with the said disk and having produced thereon at least one numeral and at least one arithmetic sign to complete with the displayed numeral of the disk an arithmetic problem to be solved by a scholar.

1,340,053. DIRIGIBLE AIRSHIP. JOHN JANDA, Noble, Okla. Filed Aug. 21, 1919. Serial No. 318,980. 2 Claims. (Cl. 244—6.)



1. In a dirigible airship, the combination of two gas bags, a base beneath the same, power means carried by the base, a third gas bag, connections between the power means and the third gas bag for drawing the last into position above and between the first mentioned bags, and means to couple the third mentioned gas bag to those first mentioned.

1,340,054. INCANDESCENT LAMP. JOHN JUDGE, New York, N. Y. Filed June 26, 1919. Serial No. 306,769. 4 Claims. (Cl. 176—34.)



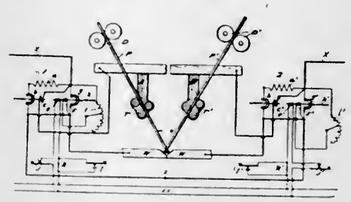
3. In an incandescent lamp having a stem with leading-in wires embedded therein, a tubular detachable member mounted on said stem and a reflector carried by said member.

1,340,055. BUNK-BLOCK. WILLIAM G. KELLY, Hot Springs, Ark. Filed July 16, 1918. Serial No. 245,159. 3 Claims. (Cl. 280—145.)



1. The combination with a bolster of a vehicle; of a bunk box supported thereon to form a stop and including a cross web adapted to lie flat against the top of the bolster when lowered and at an inward angle thereto when raised, and cheek plates passing astride and pivoted to the bolster; means to lock the block raised relative to the bolster, and latching means for holding the locking means active, the block being movable from its raised position in a direction away from the load supporting portion of the bolster.

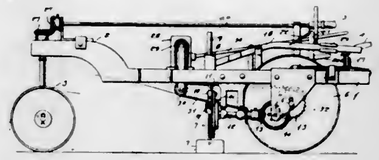
1,340,056. MULTIPLE-ARC WELDING. OTIS ALLEN KENYON, New York, N. Y. Filed Nov. 19, 1918. Serial No. 263,190. Renewed Jan. 2, 1920. Serial No. 349,088. 4 Claims. (Cl. 219—15.)



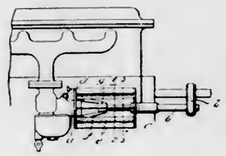
1. In automatic electric arc welding, a plurality of individually controlled welding electrodes adapted to operate simultaneously on the same portion of weld.

1,340,057. COTTON-CHOPPER. JOHN J. KRIEL and OTTO J. KRIEL, Taylor, Tex. Filed Nov. 16, 1918. Serial No. 262,869. 9 Claims. (Cl. 97—45.)

1. In a cotton chopper, a supporting frame, chopping means carried thereby, means for operating said chopping means, a control clutch interposed between said operating means and the chopping means, a vertically adjustable support for the chopping means, an adjusting lever for raising and lowering said support, and an operating lever connected to said clutch and interposed in the path of movement of said adjusting lever so as to be engaged thereby when said support is raised into its uppermost position, said clutch lever actuating the clutch when rocked by the adjusting lever so as to disconnect the chopper from the operating means therefor, the clutch being adapted to establish operating connection between said chopper and said operating means when the clutch lever is released.

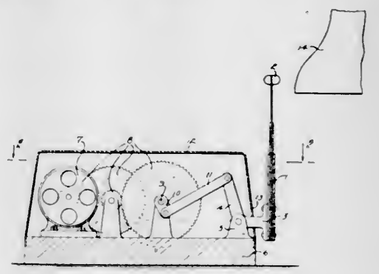


1,340,058. AIR-CLEANER FOR INTERNAL-COMBUSTION ENGINES. ALVAN R. LAMBERT, Anderson, Ind. Filed Dec. 2, 1919. Serial No. 341,946. 1 Claim. (Cl. 183—77.)



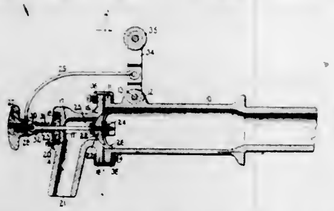
In combination with the intake of the carbureter of an internal combustion engine, a shaft terminating short of said intake and having means for driving it from the engine, an imperforate disk fastened to said shaft at a distance from the end thereof, another disk having a central hole into which the end of the intake pipe of the carbureter extends, brace bars rigidly connecting this latter disk with the end of the shaft, and a series of blades or paddles extending from one disk to the other and arranged in a circumferential series, the inner longitudinal edges of these blades terminating short of the center of the disks to thereby provide a free air-space at the center of the fan appliance in line with the intake of the carbureter.

1,340,059. BELL-RINGER. LYNNE LA MUNYON, Shoshone, Idaho. Filed Sept. 30, 1919. Serial No. 327,549. 3 Claims. (Cl. 116—162.)



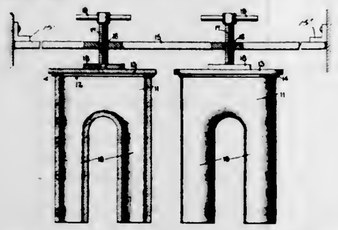
3. The combination with a bell crank lever, an enlargement on one end of the lever, and means for oscillating the said lever, of a plurality of springs secured at one end to the enlargement, said springs of different lengths, and a head or striker secured to the free end of the longest spring.

1,340,060. FAUCET. ANTON LANDGREBE, New York, N. Y. Filed June 15, 1917. Serial No. 174,904. Renewed Dec. 23, 1919. Serial No. 347,046. 1 Claim. (Cl. 251—134.)



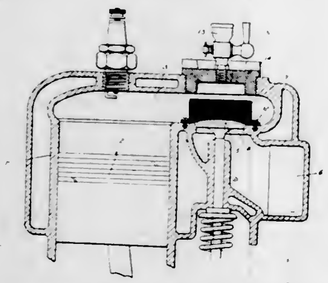
In a faucet, the combination of a hollow body, a nozzle connected to the end of said body and including a valve seat adjacent to the end of the body, a valve coöperating with the seat and opening inwardly in said body, a valve stem leading from the valve outwardly through the wall of the nozzle, a head pivotally connected to the outer end of the stem, a spring acting between the head and the nozzle tending to hold the valve seated, an actuating knob connected to said head and adapted to be pressed to open the valve, an auxiliary actuating means comprising a lever pivoted to the body, and a bar connecting said lever with said head and serving not only as an actuator means for the valve but as a means to hold the knob in operative position.

1,340,061. TUBE-CAP. ANTON LANDGREBE, New York, N. Y. Filed June 14, 1917, Serial No. 174,688. Renewed Jan. 28, 1920. Serial No. 354,754. 1 Claim. (Cl. 137—76.)



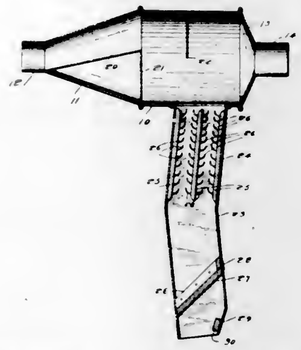
The combination of a series of tubes, each tube being associated with another adjacent thereto forming a head for communication between the tubes, each head having an open side, a series of closure members for the several head openings, a gasket arranged between each closure member and the head, an abutment bar extending along and spaced from all of said heads, and screw power means acting through said bar and coöperating with said closure members to actuate the same.

1,340,062. CARBURETING-SCREEN FOR INTAKE-VALVES. FRANK W. LAPHAM, Lake Beulah, Wis. Filed Feb. 10, 1919. Serial No. 276,091. 3 Claims. (Cl. 123—141.)



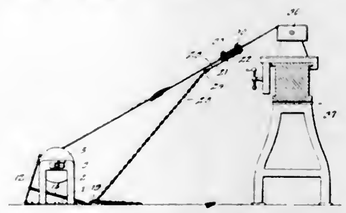
1. The combination with an internal combustion engine having an intake port set off to one side, and a priming cup in line with the intake port, of a wire mesh cap fitting over said intake port and extending toward the priming cup, and means for rigidly clamping the wire mesh cap in place so that all of the incoming explosive mixture passing through said port must pass through said cap, said cup being arranged so that most of the priming fluid from the priming cup will pass through the cap and become finely divided thereby.

1,340,063. SEED-COTTON CULLER. JOHN T. LAWRENCE, Inman, S. C. Filed July 16, 1919. Serial No. 311,269. 7 Claims. (Cl. 13—19.)



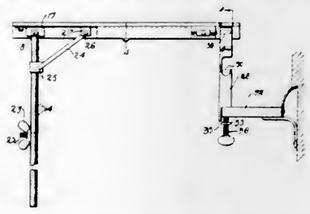
3. A seed cotton culler comprising a drum having an inlet and an outlet, a refuse chute communicating with the lower portion of the drum, and baffle means positioned in the upper portion of the chute for preventing passage of cotton through the chute.

1,340,064. WIRE-WINDING DEVICE. JAMES CLEVELAND LAYMAN, Devilsfork, W. Va. Filed Mar. 23, 1918, Serial No. 224,126. Renewed Apr. 3, 1920. Serial No. 371,149. 2 Claims. (Cl. 242—147.)



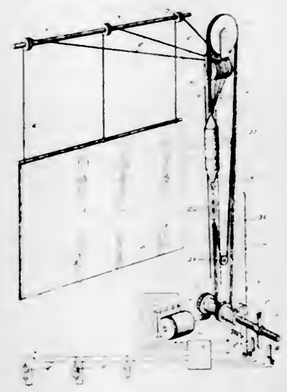
1. A device of the class described comprising a reel carrying frame, means for pivotally connecting said frame to the floor, a tension device having a hand engaging member thereon and a chain connecting the said device to the frame.

1,340,065. FOLDING UNIVERSAL TABLE. ALFRED WHEATCROFT LEE, Tarrytown, N. Y. Filed May 24, 1919. Serial No. 299,498. 6 Claims. (Cl. 45—116.)



4. In a folding table comprising a top having a plurality of hinged portions and hinged legs adapted to be folded within the table when in a closed position, shorter legs pivotally carried by another hinged portion of the table so that said legs may be swung either above or below the table.

1,340,066. THEATER-CURTAIN-OPERATING MECHANISM. WILLIAM LEMLE, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,281. 6 Claims. (Cl. 156—46.)



1. In a curtain operating mechanism, an endless chain, cords connecting a single portion of the chain with various parts of the curtain, and sheaves guiding the respective cords from their said connections to the chain, the sheaves having substantially coaxial shafts all spaced by substantially half the diameter of the sheaves from the medial plane of the endless chain, whereby the portions of the cords leading from the sheaves to the chain are continuously disposed substantially in the same plane with the chain.

2. In a curtain operating mechanism, a pair of sprockets, an endless chain stretched over the sprockets, power means for rotating one of the sprockets, a plurality of cords connected to the chain and arranged for raising the curtain, and a counterweight forming a substantial part of the endless chain and proportioned for counterbalancing the weight of the curtain.

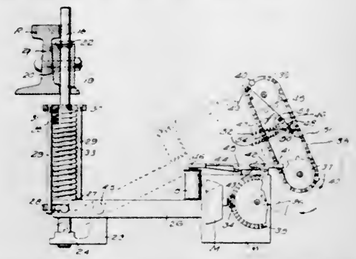
3. In a curtain operating mechanism, a pair of sprockets, an endless chain stretched over the sprockets, power means for rotating one of the sprockets, a plurality of cords connected to the chain and arranged for raising the curtain, and means for guiding the cords to their connections with the chain, the said guide means being so arranged that the portions of the cords between the guide means and the chain are disposed substantially in the same plane with the entire endless chain.

4. In a curtain operating mechanism, a pair of sprockets, an endless chain stretched over the sprockets, power means for rotating one of the sprockets, a plurality of cords connected to the chain and arranged for raising the curtain and sheaves for guiding the cords to their connections with the chain, the said guide sheaves being disposed with their axes substantially at right angles to and between the axes of the sprockets, and the axes of the sheaves being so disposed as to bring guided portions of the cords substantially into the same plane with the chain.

5. In a theater curtain operating mechanism, a pair of sprockets disposed respectively above and below the floor of the theater, an endless chain stretched over the sprockets, power means disposed below the said floor, cords connecting the chain with the curtain, a clutch releasably connecting the power means with the lower sprocket: a lever arranged for operating the clutch, and extending upwardly through an opening in the floor, and means upon the floor for latching the lever either in its clutch-connecting or in its clutch-disconnecting position.

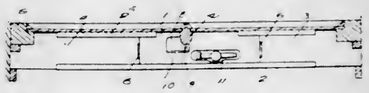
1,340,067. [WITHDRAWN.]

1,340,068. AUTOMATIC TRAIN-STOP. FRANCIS JOSEPH MCAVOY, Newark, N. J. Filed Mar. 24, 1920. Serial No. 368,479. 5 Claims. (Cl. 246—182.)



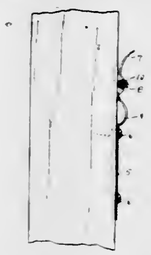
2. In an automatic train stop, the combination of a rail, a guide plate clamped thereto, an obstacle guided for vertical reciprocations in said plate closely adjacent the surface of the rail, an actuator, connections between the actuator and the obstacle acting positively thereon in one direction and resiliently in the other direction, and train controlled automatic means to control the actuation of the actuator.

1,340,069. FLY-GUARD. EDWARD L. MCMANUS, Southbridge, Mass. Filed Apr. 29, 1918. Serial No. 231,392. 1 Claim. (Cl. 20—40.)



A guard including a body portion adapted for engagement with a window sash, the medial portion of one longitudinal edge of the body being provided with a recess adapted to accommodate the sash bar of a window sash, a closure pivotally secured at one corner to the body adjacent the inner terminal of the recess and having the adjacent corner cut away and adapted to swing across the recess to accommodate the sash bar, the longitudinal edge of the closure being bent upwardly to provide a finger grip and the pivotal axis of the closure being so arranged as to cause the edge of the cut away portion to engage the sash bar, and adjustable extensions mounted on the terminals of the body portion.

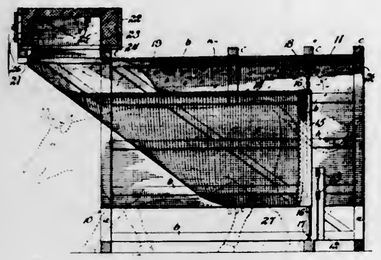
1,340,070. CLOTHESLINE-SUPPORTER. ELNATHAN F. MARKHAM, Kenosha, Wis. Filed July 26, 1917. Serial No. 182,888. 1 Claim. (Cl. 24—259.)



A clothes-line support formed of resilient flat metal shaped to form a flat portion at one end adapted to be secured to a vertical support, an angular portion having two unequal sides formed adjacent to said flat portion, the shorter one of the sides being intermediate the long side and flat-portion and forming a substantially rigid extension of the flat-portion, and said two sides being con-

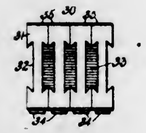
nected together by an acute bend which is positioned a considerable distance from the plane of the flat-portion to form a bending point for the support away from the point of connection of the short side and the flat-portion, a second angular portion joined to the first mentioned angular portion to provide a holding recess to receive the clothes-line, and a flared lip projecting from said second angular portion to serve as a guide for the clothes-line to the holding recess.

1,340,071. CATTLE-FLYTRAP. CHARLES F. MERRELL, Jasper, Mo., and EVERETT E. HALL, Bayard, Kans. Filed Mar. 6, 1919. Serial No. 281,024. 20 Claims. (Cl. 119—156.)



1. In a cattle fly trap, a frame, an outer netting held upon the frame, an inner netting supported within the frame, and spaced from the outer netting, said inner netting constituting fly wiping means, and means for trapping the disturbed flies.

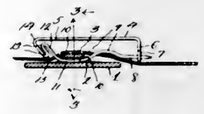
1,340,072. JUVENILE PRINTING-BLOCK. CAROLINE MONTEITH, South Orange, N. J. Filed Oct. 10, 1917. Serial No. 195,835. 2 Claims. (Cl. 101—396.)



1. As an article of manufacture, a juvenile printing block for the use of children to make an impression of a number of sentences relating to one subject and arranged one below the other, the said block comprising a series of printing block sections each provided with a single sentence printing face and a reading face with a like sentence, the printing and reading faces of the several sections pertaining to the same subject, and means detachably connected with and connecting the printing block sections with each other one below the other and with the reading faces of the several sections uppermost and the printing faces at the bottom to allow of making a single impression of all the sentences pertaining to a single subject.

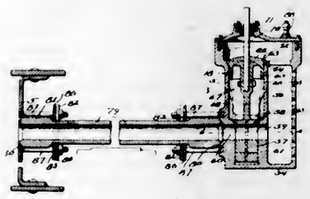
1,340,073. BUTTON-FASTENER. ALICE MOSES, Bennington, Vt. Filed Oct. 10, 1919. Serial No. 329,673. 1 Claim. (Cl. 24—103.)

A button securing pin comprising a body member, said body member being bent at an acute angle at one of its ends, said acute angle portion being bent upon itself so as to form a downwardly extending projection, the free end again being bent upon itself so as to form a pin portion, said pin portion being provided with a series of convolutions adapted to be forced through a cloth thence
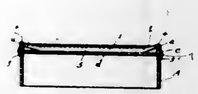


through a transverse aperture in the button, thence through the cloth at the opposite side of the button until the rear convolution engages within the aperture of the button and a hook carried at the end of the body member for the reception of the free end of the pin section.

1,340,074. SUPERHEATER. JAMES S. NICHOLS, Atlanta, Ga. Filed May 12, 1915. Serial No. 27,638. 9 Claims. (Cl. 122—462.)



1. In combination with a steam boiler and a superheater, a casing having a chamber to receive steam from the superheater, a passage for conducting superheated steam from said chamber to the boiler and having a port for admitting superheated steam from said chamber to an outlet for use, and a valve having a port to coöperate with said passage for conducting superheated steam to the boiler, and a head to control and throttle the flow of superheated steam from said chamber to said outlet, the valve being operative to first open communication between said chamber and said passage and to subsequently close communication between said chamber and said port when the valve is shifted.

1,340,075. BARREL-CLEAT. NORMAN A. ORMES, Pittsburgh, Pa. Filed Nov. 4, 1919. Serial No. 335,680. 6 Claims. (Cl. 217—89.)



1. In a barrel cleat, a body of channel cross section, and means for securing said body at its ends to a barrel so as to extend diametrically of the barrel head and be held in contact therewith.

1,340,076. YOKE OR SHOULDER-WEIGHT CARRIER. ROBERT P. ORR, Albany, N. Y. Filed Sept. 14, 1918. Serial No. 254,110. 2 Claims. (Cl. 224—5.)

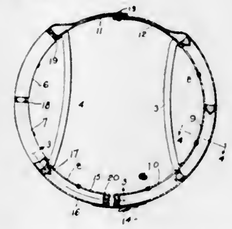
1. A weight supporting harness for persons comprising a flat piece of sheet metal having a central notch, said

piece being bent to fit the back and shoulders of a person whereby there will be a section resting against the back and a pair of sections extending to the front, a buckle



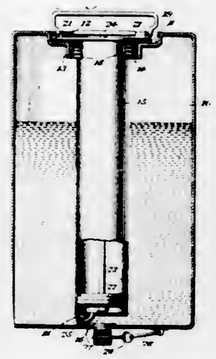
arranged adjacent each of the front sections, and a strap connected to the coat of the wearer associated with each of said buckles for preventing said front sections from slipping off the shoulders.

1,340,077. CARRIER-RECEPTACLE. ROBERT P. ORR, Albany, N. Y. Filed Apr. 5, 1919. Serial No. 287,793. 1 Claim. (Cl. 224—5.)



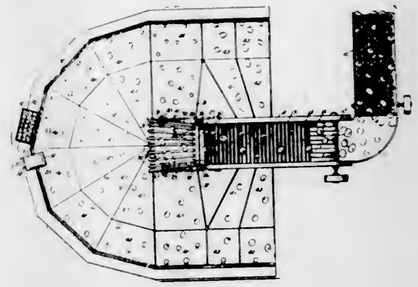
A carrier receptacle, comprising a circular body divided into two parts, each part consisting of substantially concentric inner and outer walls having a bottom connecting them, said walls forming continuous smooth surfaces throughout their length, a plurality of collapsible partitions connecting the inner and outer walls, dividing the body into compartments, and each compartment having a separate cover.

1,340,078. CONTAINER. JOHN S. PEOPLES, U. S. Army. Filed Dec. 24, 1918. Serial No. 268,209. 8 Claims. (Cl. 221—85.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



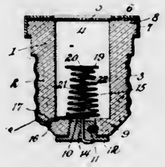
1. The combination of a container provided with an opening in the upper portion thereof, a pump fitting within said container and through said opening and means on said pump coöperating with the container so that the upper portion of said pump acts as a stopper for said container, said pump being provided with a carrying handle adapted to be folded down against the top of the pump.

1,340,079. TOMATO AND FRUIT SORTER AND DISTRIBUTER. THOMAS JEFFERSON PETERS, Peters, Fla. Filed Aug. 8, 1918. Serial No. 248,922. 21 Claims. (Cl. 130—32.)



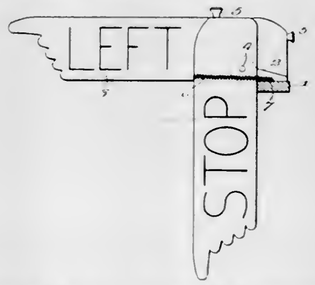
1. In a fruit sorter and distributer, rotating means for conveying and turning over fruit, an apron leading to the said means, flexible strips secured to the apron and extending over and engaging the means, and a sizer for receiving the fruit carried by the said means.

1,340,080. FUSE-PLUG. ROBERT S. PORTER, San Diego, Calif., assignor of one-half to Donald C. Burnham, San Diego, Calif. Filed Apr. 16, 1919. Serial No. 290,399. 6 Claims. (Cl. 200—117.)



1. A fuse plug comprising a body member with an interior chamber, a permanent transparent cover for the chamber, a removable conducting block for the end of the body member remote from the cover, and an elastic conducting device with an indicating plate of relatively large area carried thereby and having a normal tendency to move the plate toward the transparent cover, the elastic conducting device having means for the attachment thereto of a fusible device and the block being shaped to pass and grip the fusible device, whereby to normally hold the elastic member in a constrained position and release said elastic member to move the indicating part thereof toward the cover member on the rupture of the fusible device.

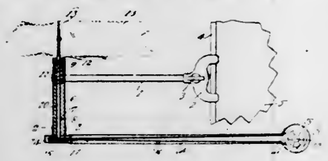
1,340,081. DIRECTION-INDICATOR. JAMES H. RABBITT, Mamaroneck, N. Y. Filed Oct. 30, 1917. Serial No. 199,305. 1 Claim. (Cl. 116—51.)



A signaling device comprising a horizontal support, bearing members carried by the support, signal arms pivot-

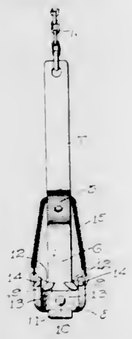
ally connected to the bearing members at points adjacent to, but removed from their pivoted ends and one of their side edges and engageable with the support on opposite sides of the pivot points when in a raised or lowered position to positively limit the movement thereof, and springs engaging the signal arms and support and movable past the pivot points of the signal arms upon actuation thereof to hold the same in its two resting positions against the support.

1,340,082. **DIRECTION-INDICATOR.** GEORGE WILLIAM RUHL, Barnes, Kans., assignor of one-half to Emil Killman, Barnes, Kans. Filed Apr. 5, 1917. Serial No. 159,984. 2 Claims. (Cl. 116—46.)



1. A direction indicator of the class described comprising a casing, a shaft vertically mounted therein, a signal carried by the upper end of the shaft and projecting above the casing, an arm secured to the casing and projecting laterally therefrom, a clamp secured in the free end of the arm for engaging the side of the wind shield frame, a housing extending from the bottom of the casing, and operating means for said signal shaft, within said housing, said means being operable from the inner end thereof.

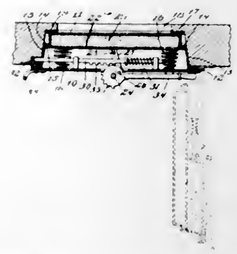
1,340,083. **GRAPPLING-TOOL.** LEVI SCARBROUGH, Weldon, Ill. Filed July 17, 1919. Serial No. 311,449. 1 Claim. (Cl. 294—114.)



A grappling tool comprising a shank having a lateral bend intermediate its ends to offset its lower end portion rearwardly from the upper portion, a horizontally positioned yoke carried by the lower end of the shank, oppositely positioned pivoted jaw members carried by the yoke branches, and having curved and serrated gripping surfaces eccentric to the pivots of the jaw members, and a spring connected at its ends to the jaw members and passing intermediate its ends around the aforesaid bend of the shank and anchored thereto, said spring tending to swing the jaw members in a direction to bring the gripping surfaces toward each other.

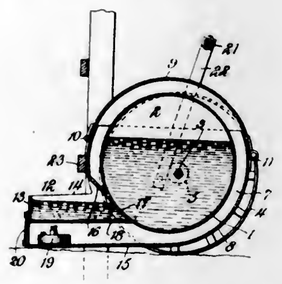
1,340,084. **CLOSURE FOR REFRIGERATORS AND THE LIKE.** JOHN W. SEIFERT, Houston, Tex. Filed Mar. 28, 1918. Serial No. 225,377. 10 Claims. (Cl. 20—16.)

6. A closure for the purpose named having a main member provided with locking means, a supplemental spring actuated seat engaging member, a rocker mounted upon the main member and operatively connected with said



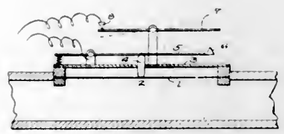
locking means, and slotted relative motion compensating links connecting the supplemental member with said rocker.

1,340,085. **PORTABLE HOG-FOUNTAIN.** CLAUDE SIBBRING, George, Iowa. Filed June 10, 1919. Serial No. 303,030. 15 Claims. (Cl. 119—73.)



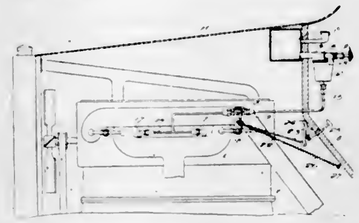
1. A stock watering device comprising a receptacle, wheels upon which the receptacle is eccentrically mounted, and a drinking trough projecting from the receptacle in offset relation thereto with the outer end of the trough resting upon the ground, the extent of projection of the trough from the receptacle being sufficient to permit the trough to project through a fence at the bottom, so as to be accessible to stock at one side of the fence, the receptacle bearing against the other side of the fence.

1,340,086. **LIQUID-OPERATED ELECTRIC SWITCH.** WILLIAM HOGG SMITH, Falkirk, England, assignor to the Filbar Electric Heater, Limited London, England. Filed Dec. 12, 1916. Serial No. 136,556. 1 Claim. (Cl. 200—83.)



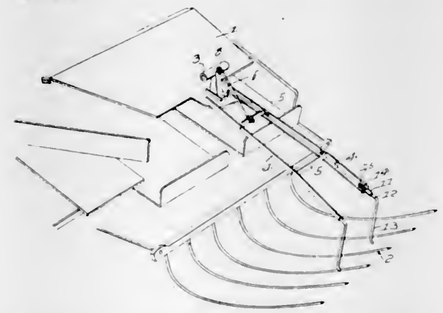
In a device of the type described, the combination of a conduit having a lateral diaphragm chamber, a diaphragm secured in the chamber and flexible by the water pressure in the conduit, a superposed plate extending across the diaphragm and formed with an aperture, a rod seating on the diaphragm and extending through the aperture of the plate to be guided thereby, a switch arm movable by the rod, a fixed contact, and a second switch arm normally engaging the contact and adapted to be engaged by the first switch arm and to be disengaged thereby from the contact.

1,340,087. **PRIMING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES.** EDWIN O. STEINBAUER, Niles, Mich. Filed Feb. 6, 1918. Serial No. 215,602. 1 Claim. (Cl. 123—180.)



The combination with an internal combustion engine having an intake manifold, of an auxiliary fuel reservoir located elevated relative to the said engine, a primer having a cup shaped member provided with a removable cap, branches extending from said cap, one of the branches being connected with the reservoir, a needle valve arranged in another branch for controlling said branch connected with the reservoir, the remaining branch forming an air intake, a delivery pipe leading from the said cup shaped member and having branches tapped into the intake manifold spaced from each other, and a foot operative means for controlling the fluid in said delivery pipe.

1,340,088. **BUNDLE-CARRIER ATTACHMENT FOR BINDERS.** JAMES G. STEWART, Minneapolis, Minn. Filed Mar. 31, 1919. Serial No. 286,244. 1 Claim. (Cl. 56—474.)



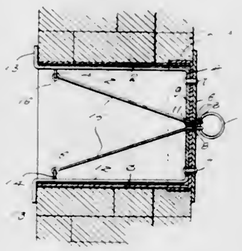
A bundle carrier attachment for binders comprising a frame overhanging the bundle carrier of a binder, the frame comprising angle irons having their flanges at their outer extremities coiled to provide sleeves, depending fingers having angularly bent end portions passed through said sleeves, pins carried adjacent the extremities of said end portions, and springs surrounding said end portions and compressed between said pins and the inner ends of the sleeves, as herein shown and specified.

1,340,089. **REMOVABLE BRIDGE FOR DENTAL WORK.** ARTHUR S. STONE, Brooklyn, N. Y. Filed Feb. 20, 1919. Serial No. 278,168. 4 Claims. (Cl. 32—12.)



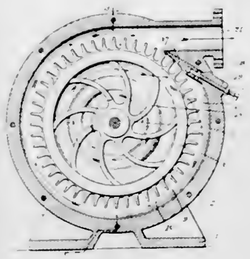
1. Denture parts, comprising: a metallic inlay provided with a dove tail groove, and an abutment adjacent one end of the groove, and a dove tail key adapted to register with the dove tail groove and pass beyond the abutment.

1,340,090. **FLUE-STOPPER.** ANGIE MARY TRACY, Ryan, Iowa. Filed Apr. 12, 1918. Serial No. 228,268. 2 Claims. (Cl. 126—319.)



1. A flue stopper including a cylindrical sleeve, a disk arranged at one end of the sleeve and having a centrally arranged opening, a U-shaped member arranged within the sleeve and secured to the disk and having spring arms disposed parallel to the longitudinal axis of the sleeve, the forward portions of the spring arms being extended outwardly for engaging one wall of a flue, eyes carried by the forward portions of the spring arms, flexible elements connected to the eyes and extending through the opening in said disk, a ring connecting said flexible elements and arranged outwardly of said disk, and means to secure the U-shaped member to said disk.

1,340,091. **CENTRIFUGAL PUMP.** REUBEN N. TRANE, La Crosse, Wis. Filed Jan. 4, 1919. Serial No. 269,558. 9 Claims. (Cl. 253—189.)



1. In a rotary pump, a rotor, the marginal portion of the periphery of which is provided with a series of radial blades acting as propelling vanes, a bearing or peripheral member arranged at the base of said blades, a hub, and a plurality of primary impelling blades extending from the hub to the periphery or bearing member.

1,340,092. **PIPE-WRENCH.** ADOLF TÜSCHER, Jr., Zurich, Switzerland. Filed Dec. 22, 1919. Serial No. 346,746. 3 Claims. (Cl. 81—157.)

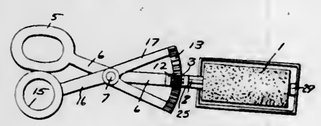
1. An adjustable pipe-wrench, comprising a threaded handle-bar, a pivoted jaw, and a pivot carried in the lower

part of said jaw and serving as a nut for the threads of the handle bar, said pivot being displaceable in a lateral



direction to allow the jaw to be quickly adjusted relatively to the handle-bar without turning the latter.

1,340,093. TOOTHBRUSH. JAMES S. WESTHAFER, Braman, Okla. Filed July 29, 1918. Serial No. 247,280. 1 Claim. (Cl. 15—37.)



In a rotary tooth brush, the combination with operating mechanism of scissor type, the shank of one member thereof being forked and carrying a rack bar and the shank of the other member having a pair of alined bearings and dropped beyond said bearings, a third bearing in line with the others, and means for detachably connecting this bearing with the dropped portion of the shank; of a rotary tooth brush, a shaft fixed therethrough and having one trunnion mounted in the last-named bearing and its other trunnion squared and projecting into one of the first-named bearings, a pinion engaging said rack bar, and a pinion-shaft fast therethrough and mounted in said first-named bearings, one end of this shaft being provided with a squared socket, for the purpose set forth.

1,340,094. SECTIONAL WHEEL-RIM. JOHN WESLEY WHITE, Lewistown, Mont., assignor of one-half to William D. Rose, Lewistown, Mont. Filed June 27, 1919. Serial No. 307,078. 2 Claims. (Cl. 152—21.)



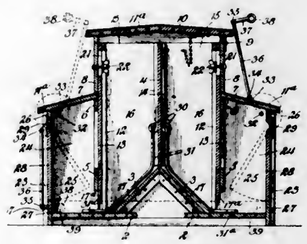
1. In combination with a felly having a series of openings therein, a rim section fitting on and secured to the felly and having a tire engaging flange, a section fitting upon said rigid section and having a tire engaging flange and depending perforated ears in line with the openings of the felly and resting against one side of the felly, a band resting against the other side of the felly and having lips supporting the tire engaging flange of said rigid section, and also having threaded openings in line with the openings of said felly, and clamping bolts passing through the perforated ears of the movable section and the openings of the felly and engaging the threaded openings of the band.

1,340,095. CLOTHESPIN. JOHN L. WHITTED, Long Island, Kans. Filed Apr. 30, 1917. Serial No. 165,560. 1 Claim. (Cl. 24—139.)



A clothes pin formed from a single piece of spring wire bent upon itself so as to form two arms between which a clothes line is adapted to be disposed and clamped, one of said arms being straight and provided with a loop formed by said wire being bent outwardly and upwardly and having its end in engagement with the arm, the other arm extending toward the end of the first mentioned arm and substantially parallel thereto, said arm being bent at right angles so as to form a horizontal portion, which portion is again bent so as to form a second horizontal portion extending toward the other arm of the clothes pin, said second horizontal portion having its end bent so as to form a hook in a horizontal plane, said hook engaging the loop carrying arm at a point adjacent the upper edge thereof, the horizontally disposed hook being disposed at an angle to its horizontal carrying portion thereby preventing the easy displacement of the arm engaged thereby, the engaging of the hook with the arm at a point immediately above the loop forming means whereby when a piece of fabric is clamped in position substantially right angle bends will be formed in the fabric by the outwardly extending edge of the loop and the hook thereby relieving the strain and pull upon the engaging point between the hook and arm, said angular arrangement of the hook in a horizontal plane also assisting in the holding of the arm carrying the loop.

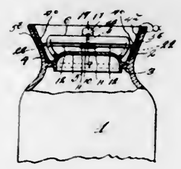
1,340,096. HOG-FEEDER. JOHN H. WINTERS, Adams, Tenn. Filed June 5, 1919. Serial No. 301,982. 3 Claims. (Cl. 119—53.)



1. In a hog feeder, the combination with a receptacle having compartments leading therefrom, each compartment having a door with a normal tendency to close but yieldable inwardly to give access to said compartments, of a grating comprising upper and lower rods connected by

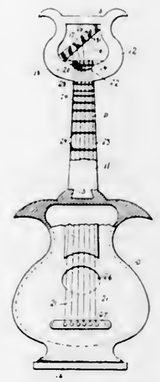
cross rods, means for pivotally connecting the upper rod to the top of the compartments on the outside thereof and above the doors so that the cross rods extend in front of and across the doors when the grating is in its lower position, and means for detachably securing the other rod to the bottom of the compartments on the outside thereof below the doors, the grating being so disposed that upon release of the lower rod, it may be swung up over the compartments and supported out of the way.

1,340,097. MILK-CAN COVER. MARION OBIDAH WISEGARVER, Umbarger, Tex. Filed July 25, 1919. Serial No. 313,373. 1 Claim. (Cl. 31—78.)



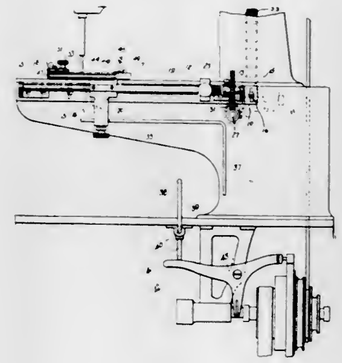
A cover lock for metallic shipping and storing cans comprising a rotatable vertical shaft mounted in the handle of the cover, slidable bolts slidable in bearings of the handle and having their inner ends connected to the ends of a link secured to the lower end of the rotatable vertical shaft, the upper end of said vertical shaft having secured thereto a rectangular plate, said rectangular plate being disposed in an aperture of an operating knob, a coiled spring surrounding the shaft and having its upper end engaging the rectangular plate and its lower end engaging the bottom of the aperture and notches carried by the lower surface of the knob and adapted to receive lugs on the handle of the cover whereby the slidable bars may be locked in engagement with the mouth of the can or locked out of engagement with the same.

1,340,098. MUSICAL INSTRUMENT. FRANK ZAMECNIK, Washington, D. C. Filed Mar. 8, 1919. Serial No. 281,339. 2 Claims. (Cl. 84—133.)



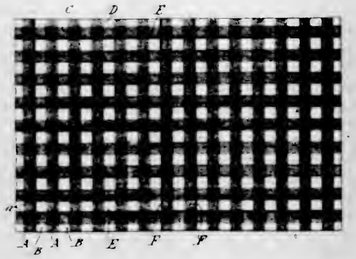
1. A musical instrument including a head portion having an opening therethrough, a bar extending between the walls of the head within the opening, a plurality of tuning pegs carried by the bar, a supporting member extending between the walls of the head within the opening, and a plurality of string guiding pins depending from said support, the strings of the instrument passing beneath the support on their passage to the pegs and maintained in spaced relation by the pins.

1,340,099. FEEDING DEVICE FOR PRODUCING SPIRAL STITCHES. HERMAN ADLER, New York, N. Y. Filed Feb. 1, 1919. Serial No. 274,388. 10 Claims. (Cl. 112—2.)



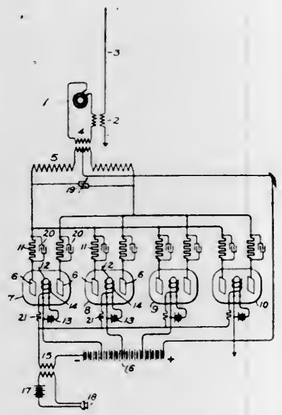
1. In a feeding device for producing a spiral stitch, a shaft having a thread, a work holder slidably mounted on the shaft beyond the thread, a member disposed wholly at one side of the thread on the shaft and having a thread normally meshing with the thread on the shaft, and a spring secured relatively to the work holder and to the member for normally holding the thread on the member yieldingly against the thread on the shaft.

1,340,100. GUIDE-LINE SHEET. ELMER MCCLELLAN AFRICA, Huntingdon, Pa., assignor to J. C. Blair Company, Huntingdon, Pa., a corporation of Pennsylvania. Filed July 30, 1918. Serial No. 247,368. 9 Claims. (Cl. 283—45.)



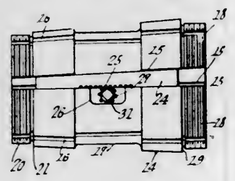
1. A guide sheet for writing paper having a series of broad, dark bands thereon, each of which is composed of a series of separate lines, spaced slightly from each other, and a series of alternately arranged broad light bands, the dark bands being visible through a superposed sheet of paper when in position for use, and both the dark and light bands being of sufficient breadth to permit a superposed sheet to receive writing within the spaces immediately above either the dark or light bands.

1,340,101. METHOD OF AND MEANS FOR CONTROLLING ELECTRICAL ENERGY. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 15, 1914, Serial No. 845,115. Renewed Sept. 24, 1919. Serial No. 325,969. 20 Claims. (Cl. 250—6.)



3. The method of varying the amplitude of the current flow in a circuit which comprises a plurality of parallel paths each of which contains a relay device, which consists in gradually varying the conductivity of each one of the relay devices in succession.

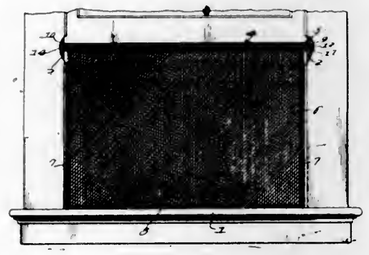
1,340,102. ADJUSTABLE JOURNAL-BOX. SEYMOUR A. AYRES, East Lansing, Mich. Filed Dec. 8, 1919. Serial No. 343,232. 6 Claims. (Cl. 64—55.)



4. In an adjustable journal box, the combination with a housing having a tapered bore, and a bearing sleeve of tapered formation within said bore and provided with a tapered slot in its wall; of a tapered spreader in said slot, a spindle in said bearing, means for holding the bearing against longitudinal movement, and means engaged through the housing and bearing and with the spreader, said spreader being formed with rack teeth in one side thereof, said bearing being provided with a recess adjacent to said rack teeth, a shaft rotatably mounted radially of the housing and carrying a pinion in mesh with said rack teeth, said shaft having means of being rotated, and means coöperating with said shaft to indicate the degree of movement imparted thereto and to the spreader.

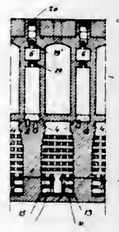
1,340,103. ROLLER FLY-SCREEN. FRANK JOSEPH BAUKUS, Saginaw, Mich. Filed Mar. 16, 1918. Serial No. 222,875. 1 Claim. (Cl. 156—39.)

The combination with a window frame having a sill and oppositely disposed upstanding stiles mounted thereon and window guiding beads attached on the stiles, of a spring actuated roller, a screen windable upon the roller and having one end attached thereto, the screen being formed with binding on its side edges, an angle strip attached to that end of the screen remote from the roller, brackets mounted on the opposing faces of the window stiles, one of said brackets being formed with a round hole to receive the round trunnion of the spring actuated roller, the other of the brackets being formed with a bayonet slot communicating with a slot cut in the adjacent



guide bead whereby the flat trunnion of the roller may be made to engage the said bracket, the sill being slotted on its upper face in the direction of its length to receive said angle strip, and clasps attached on top of the sill and overhanging the slot therein for engagement with the said angle strip, whereby the screen may be attached in the window frame or detached therefrom in the simple manner specified.

1,340,104. OVEN WITH REGENERATORS. CHARLES BERTHELOT, Paris, France. Filed Aug. 15, 1919. Serial No. 317,780. 3 Claims. (Cl. 263—20.)



1. A furnace comprising carbonizing chambers, vertical flues, heat regenerators placed below said chambers and divided into compartments, longitudinal flues arranged above said vertical flues, channels connecting each of said regenerators to the lower part of adjacent flues, channels connecting the upper part of the vertical flues to the longitudinal flues situated below them, means adapted to place in communication half of the vertical flues placed between two carbonizing chambers simultaneously with the two adjacent regenerators and with the longitudinal flue situated above said vertical channels, means adapted to make the said longitudinal flue communicate with the other half of said vertical flue and the latter with the adjacent regenerators.

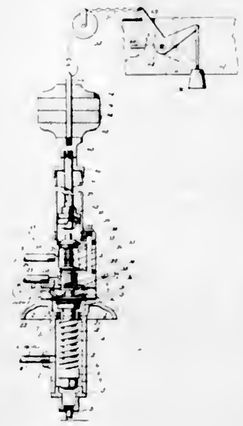
1,340,105. CLEVIS. CHRISTIAN BETTGER, Bremen, N. D. Filed Apr. 30, 1917. Serial No. 165,510. 1 Claim. (Cl. 213—67.)



A clevis of the character described comprising a loop-like yoke formed with a guide opening in one end, a stem

slidable through the opening and having a jaw, a movable jaw pivotally connected with the stem, the movable jaw having an arm which passes through the guide opening and is pivoted to the stem within the yoke, so that the latter may operate to hold the movable jaw normally closed relative to the stationary jaw, and a spring in surrounding relation to the stem and compressed between one end of the stem and one end of the yoke.

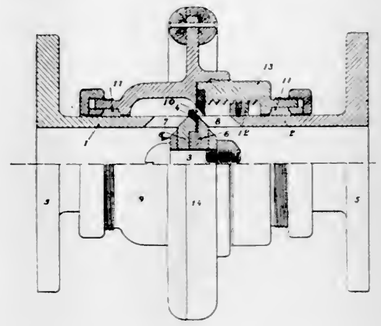
1,340,106. DAMPER-REGULATOR. GEORGE W. BIGELOW, New Haven, Conn. Filed May 12, 1919. Serial No. 296,355. 3 Claims. (Cl. 236—85.)



1. In a damper actuating mechanism, the combination with a base member; of a valve casing having a chamber therein; a ring between said base member and valve casing; a piston operatively mounted within said base and ring; a spring for actuating said piston in one of its positions, tensioned so as to hold the head of said piston on its seat at a predetermined pressure; a valve having a chamber therein, an annular groove surrounding it, and a radial port opening into said chamber and groove; a plug secured within said casing; a spring in the chamber of said valve casing between said plug and valve for normally holding the latter on its seat; a rocking member between said piston and said valve; an inlet pipe for admitting fluid into the chamber of said valve casing and an outlet for the fluid after it has passed through said valve.

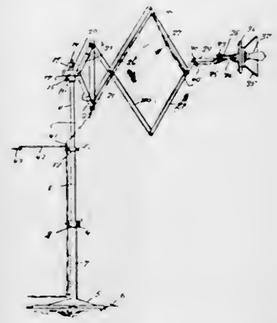
1,340,107. COCK. FRANÇOIS MARIE PAUL BLACHE, La Ricamarie, France. Filed October 10, 1918. Serial No. 257,588. 3 Claims. (Cl. 251—20.)

3. A cock comprising in combination: a cock casing composed of two tubular oppositely and coaxially disposed members, end walls closing the adjacent inner ends of said members, respectively, an annular valve seat arranged between said end walls, means for clamping the valve seat between said end walls and holding the latter together, side ports in the casing members near the end walls of the same, a ring shaped distributer arranged around the cock casing and adapted to slide along the same said distributer being composed of two coaxial tubular members arranged end to end, means for securing said members to each other, an annular contact member adapted to be clamped between said members and to contact with the valve seat, a recess in the distributer at one side of the said contact member, means for providing a tight joint between the ends of the distributer and the cock casing, threaded parts on the cock casing and the distributer, re-



spectively, said threaded parts being in engagement with each other and a handwheel on the distributer, substantially as described and for the purpose set forth.

1,340,108. PORTABLE STAND. WALTER BLASCO, Erie, Pa. Filed July 24, 1919. Serial No. 313,117. 2 Claims. (Cl. 248—1.)

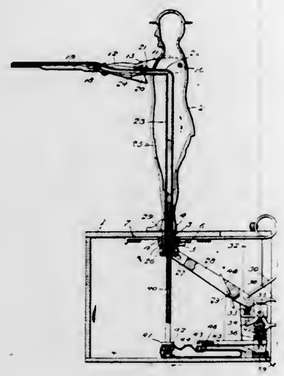


1. A support or stand of the character described comprising a base, an extensible upright carried by the base, a clamp on the upper end of the upright, a hanger carried by the clamp, a toggle arm, a fixed guide mounted in the hanger and having one of the levers of the toggle pivoted therein, while another of said levers of the toggle slidably engages in the guide, a lamp carrying bracket mounted on the toggle arm, a collar engaging the upper end of the upper right and having an arm connected with the clamp, said bracket being formed in two sections, and means swingingly connecting the sections together and also to the toggle arm for permitting vertical and horizontal adjustment, forked ends on said hanger for receiving the guide, the pivot connecting one toggle arm in the guide being engaged in one of the forked ends, and a removable fastener engaged in the other forked end and a pin for removably connecting the latter therein.

1,340,109. TOY. EMIL P. BODIN, New York, N. Y. Filed Nov. 27, 1918. Serial No. 264,473. 9 Claims. (Cl. 46—40.)

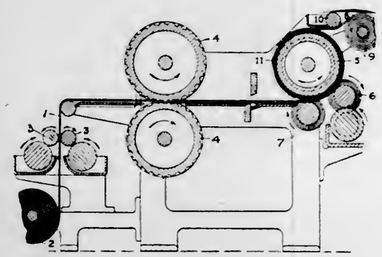
1. In a toy of the class described, figures mounted on shafts, right angularly disposed fingers on said shafts, said shafts having spaced indentures, spring members hav-

ing headed ends engaging in said indentures, a slide having spaced depending lugs thereon disposed in the path of con-



tact with said fingers and designed to engage with the respective fingers when the said slide is reciprocated.

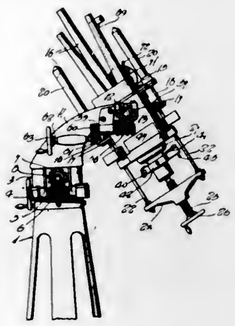
1,340,110. METHOD OF MANUFACTURING PAPER BARRELS. ROBERT S. BOLGER, New York, N. Y., assignor of one-half to George F. Whistler, Brooklyn, N. Y. Filed May 9, 1918. Serial No. 233,461. Renewed Oct. 31, 1919. Serial No. 334,884. 8 Claims. (Cl. 93—81.)



7. The method of manufacturing bilged barrel bodies of a continuous unbroken web of paper, which consists in longitudinally stretching said web between the side edges thereof, the latter remaining relatively shorter than the stretched portions, then longitudinally wrapping the same upon itself into bilged barrel formation, and interposing relatively narrow strips of flexible material between the convolutions of the web during the wrapping of the web around the mandrel.

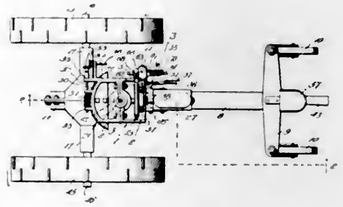
1,340,111. ANTI-AIRCRAFT GUN. FRANK BONALI, Clifton, N. J., assignor to Dr. Carlo De Felice, New York, N. Y. Filed Oct. 11, 1917. Serial No. 196,014. 7 Claims. (Cl. 89—37.)

1. In a gun, a loading device comprising a carrier having a recess therein and having a supporting and guiding rod extending therefrom, and a cartridge holder mounted for movement in said recess in a direction at right angles



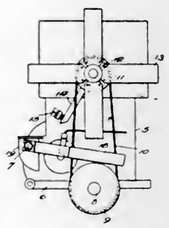
to that in which said supporting and guiding rod extends.

1,340,112. TRACTOR. WILFRID BOULAIS, Ipswich, Mass. Filed Dec. 16, 1918. Serial No. 266,999. 7 Claims. (Cl. 180—14.)



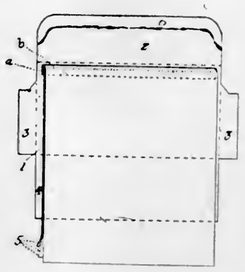
1. The combination with a motor driven vehicle having a worm drive; of a hitch for the load, and means operated by the resistance of the load on said hitch for thrusting endwise on the worm in the direction opposite that in which the latter tends to move while in operation.

1,340,113. ENGINE-FAN-BELT GUARD. EDWARD B. BRACKETT, Lufkin, Tex. Filed Mar. 15, 1919. Serial No. 282,773. 1 Claim. (Cl. 74—51.)



The combination of an explosive engine including crank and fan shafts, pulleys secured upon said shafts, a belt connecting said pulleys, a cylindrical oil spout, a supporting bolt extending through the spout, and a belt guard extending across the edges of the belt adjacent one of the pulleys and having one terminal curved to snugly fit the external contour of the cylindrical oil spout, the curved extremity of the guard having a slot receiving the shank of the bolt whereby the guard is secured in position upon the engine.

1,340,114. COMBINED LETTER-SHEET AND ENVELOP. MATTHEW A. BRANDT, Minneapolis, Minn., assignor to J. G. Eddy, Minneapolis, Minn. Filed Sept. 30, 1916. Serial No. 123,118. 3 Claims. (Cl. 229—92.7.)



1. The combination with a permanently formed envelop having a sealing flap, of a writing sheet, having one edge permanently connected to the envelop interiorly thereof on the inner face of its front portion adjacent to the line of fold of the sealing flap and free therefrom, and normally outside of said envelop for underlying the sealing flap, and adapted to be received within the envelop.

1,340,115. FOUNTAIN-TOOTHBRUSH. CLAYTON PAUL BREINING, Mill Hall, Pa. Filed Jan. 14, 1919. Serial No. 271,049. 3 Claims. (Cl. 15—52.)



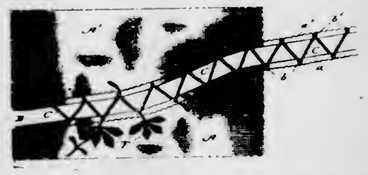
1. A fountain brush comprising a bristle carrying head having a channel communicating with the bristles, a tubular handle constituting a reservoir and communicating with said channel, a spider carried by the open outer end of the handle and having a threaded sleeve, and a cartridge comprising a tubular casing of a diameter to permit the said handle to telescope therein, and a threaded stem secured centrally in said casing and extending longitudinally through the cartridge and beyond the open end thereof and adapted to engage the said threaded sleeve of the spider to advance the cartridge along the handle, upon a turning movement of the cartridge.

1,340,116. SPARK-PLUG. JAMES BROOKS, Mount Vernon, N. Y., assignor to Matthew Hawe, Pelham Manor, N. Y. Filed Sept. 29, 1919. Serial No. 327,227. 1 Claim. (Cl. 123—169.)



A spark plug comprising a metallic shell having a longitudinal counterbored passage therethrough forming an internal shoulder the inner bore of said passage being larger than the outer bore, a thread on the outer side of the inner end of said shell, a removable core comprising a metallic pin having a fixed metallic shoulder near its inner end and threaded at its outer end, an insulating sleeve surrounding the middle portion of said pin and bearing against said shoulder, a metallic centering sleeve surrounding said insulating sleeve intermediate the length thereof and fixedly mounted thereon against independent longitudinal movement, that part of the insulating sleeve between said centering sleeve and the threaded portion of the pin being of greater length than the smaller portion of the counterbore in the shell so as to project above the outer end of said shell, a separate insulating piece mounted on the outer end of the shell and surrounding that part of the insulating sleeve which projects above the shell, and a clamping nut mounted on the threaded part of said pin and bearing against said insulating piece and operating to draw said centering sleeve toward said stop shoulder within the shell to hold said parts rigidly assembled.

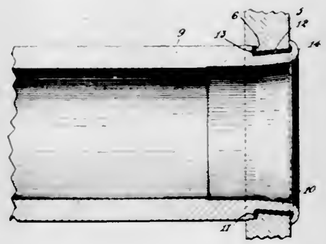
1,340,117. OPEN-MESH JOINT IN TEXTILE AND OTHER FABRIC AND METHOD OF MAKING THE SAME. LOUISE BRUGER, Jersey City, N. J. Filed July 28, 1919. Serial No. 313,725. 4 Claims. (Cl. 2—147.)



1. The method of uniting pieces of fabric, which consists in providing one or more edges with parallel guide lines, forming uniformly spaced eyelets between said lines, then spacing the two pieces of fabric a short distance apart and uniting them by crochet stitches connecting at the eyelets and forming an open mesh joint.

2. An article of manufacture comprising two pieces of fabric spaced apart and united by an open mesh joint composed of parallel guide lines at or near the edges of the fabric, a series of uniformly spaced eyelets between said lines, and crochet stitches connecting at the opposite eyelets and forming an open mesh joint.

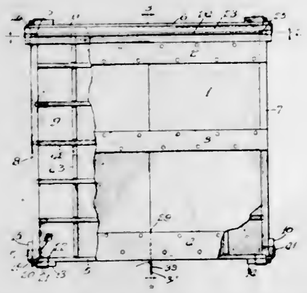
1,340,118. BOILER-TUBE AND END-PLATE CONNECTION. CHARLES S. COLEMAN, Los Angeles, Calif., assignor to the Coleman Boiler Appliance Company, Los Angeles, Calif., a Corporation of Delaware. Filed Feb. 12, 1917. Serial No. 148,106. 5 Claims. (Cl. 285—47.)



1. The combination with a tube sheet having an opening of differential diameters to form an annular shoulder between the ends of the opening, the side walls of the opening on opposite sides of the shoulder being beveled outwardly forming oppositely inclined walls, of a soft metal gasket comprising a cylinder having a flange on one end adapted to seat on the shoulder, said gasket formed to conform to the outer inclined wall of the opening and

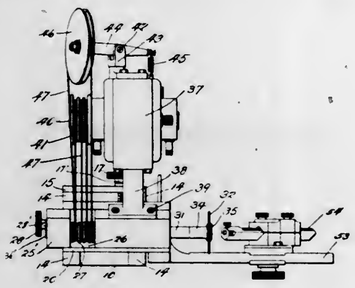
beaded over the margin of the latter, and a tube point having a reduced portion at its outer end, the same terminating in a shoulder adapted to seat on the flange of the gasket, and having a beveled wall conforming to the inner beveled wall of the opening, the outer end of said tube being turned outward against the gasket and beaded over the outer end of the latter.

1,340,119. BOX. NICHOLAS O. KENNIKER and FERDINAND A. FRITZE, Jr., Chicago, Ill., assignors to Durable Box Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 17, 1916. Serial No. 78,913. 4 Claims. (Cl. 217—12.)



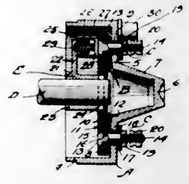
1. A device of the kind described, comprising end and side members, each provided with transverse cleats near the ends thereof, arranged at right angles to each other and located entirely out of horizontal and vertical alinement with each other, to form a space between the same, in combination with pairs of coöperating wire connecting members, one of which forms a loop or eye, and the other a coöperating hook therefor located within the space formed by the transverse cleats, the free ends of said connecting members being bent and passed through the cleat and its supporting member of the end or side and clenched on the opposite side thereof, thereby fastening the cleat and supporting member together, the free engaging ends extending in position to be engaged one with the other.

1,340,120. PORTABLE GRINDING DEVICE. FREDERICK GEORGE PECK, Bradford, Pa., assignor, by mesne assignments, to James H. Malone, Philadelphia, Pa. Filed Mar. 25, 1919. Serial No. 285,077. 10 Claims. (Cl. 64—5.)



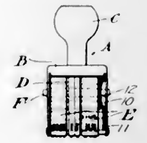
1. A device of the character stated comprising a rotatable spindle provided with a grinding-wheel, a member in which said spindle rotates, a motor supported by said members, grooved pulleys fixed to said spindle and to the shaft of said motor, a pivotally supported arm under spring tension, at least one grooved pulley operatively carried by said arm, the face of such pulley being in a plane parallel with the said pivotal connection, and an endless belt the runs of which pass around the said pulleys.

1,340,121. TIMER. WILLIAM W. SCHUBERT, Chicago, Ill. Filed June 11, 1919. Serial No. 303,382. 1 Claim. (Cl. 200—24.)



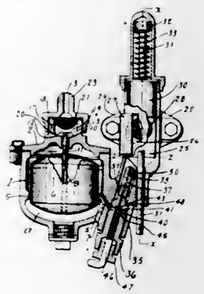
In a timer, the combination with a plurality of contacts in spaced insulated relation about a common axis, of a rotor around said axis comprising a main body portion, a trunco-conical shell portion with its base rigid with the main body portion and its hollow shell portion confronting said contacts, a cylindrical hollow contact provided with a wall for engagement with said first mentioned contacts and telescoping said shell of said rotor, and an expansion spring in the hollows of said trunco-conical shell and said cylindrical contact urging the latter into engagement with said contacts one at a time as the rotor is moved.

1,340,122. DATING-STAMP. FRANCIS MARION SHAFER, Moab, Utah. Filed Sept. 27, 1919. Serial No. 326,745. 3 Claims. (Cl. 101—111.)



3. In a dating stamp including a frame and a plurality of independently revoluble rollers therein, an attachment connected with the frame and movable whereby to force all of said rollers into frictional engagement to prevent accidental rotation thereof.

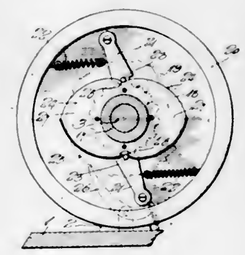
1,340,123. CARBURETER. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor, by mesne assignments, to Briggs and Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 22, 1915. Serial No. 16,010. 20 Claims. (Cl. 137—104.)



2. A carbureter, including a float chamber provided with an inlet, in combination with a valve controlling said inlet, a float normally supporting said valve, and means for utilizing vibratory movements of said float to develop a pressure on said valve in the direction of its closed position.

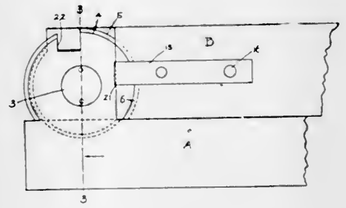
19. A carbureter including a float chamber, a float therein in dash pot relation thereto, a valve loosely connected with the float, and means for utilizing vibratory movements of the float to apply pressure of liquid from the space below the float to the valve when the float moves away from valve holding position.

1,340,124. AUTOMATICALLY-RELEASING CLUTCH. JOHN FRANKLIN STOWE, Lincoln, Nebr. Filed May 13, 1919. Serial No. 296,870. 3 Claims. (Cl. 123—185.)



1. In combination with a shaft adapted to be rotated forward and backward, a sleeve on and rotatable relative to said shaft, a pawl-carrying element on and rigid with said shaft, a pawl pivoted to said pawl-carrying element and provided with a lateral extension, a clutch element on said sleeve and engageable with said pawl to effect a clutching relation of said sleeve and shaft, and means including a cam on said shaft to press against said lateral extension of said pawl when the shaft is rotated backward and thereby annul the clutching relation of the shaft and sleeve.

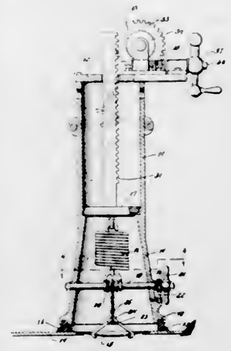
1,340,125. FOLDABLE SQUARE. SWAN O. THORELL, Denver, Colo. Filed Apr. 4, 1918. Serial No. 226,686. 5 Claims. (Cl. 33—117.)



1. A square having a pair of flat pivoted members to open or close, one of the members having a short elbow arm, the transverse edge of said short arm and the adjacent part of the other member being provided with interlocking, undercut and overlying guide means concentric with the axis of the pivot, the elbow having an inside edge perpendicular to its blade, and a detent relatively engageable with the inside and transverse edges.

1,340,126. PLUNGER. STANISLAW USTRZYCKI and JOSEPH BUKOLA, Chicago, Ill. Filed Nov. 1, 1919. Serial No. 335,171. 3 Claims. (Cl. 4—1.)

1. A clean out pump having a cylinder and a spring advanced plunger, and means for securing the same with the cylinder in airtight communication with a pipe to be cleaned, a rack connected with the piston and a mutilated



gear engaged with the rack and adapted upon retraction of the same to release the piston for actuation by its spring.

1,340,127. PISTOL. HERMAN L. WELCH, El Centro, Calif. Filed Oct. 31, 1918. Serial No. 260,540. 3 Claims. (Cl. 42—72.)



2. A pistol having a barrel the loading end of which has a downwardly extending forearm-engaging means, and a grip below and adjacent to the muzzle end of the barrel, said means including an inverted U-shaped member to straddle the arm near the elbow and being adjustable transversely of the pistol to enable use of the pistol on either arm along the inside line of which the pistol lies or is sighted.

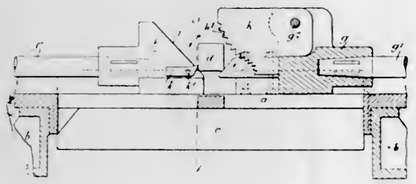
1,340,128. SAW-TOOTH. ANTON WESTGARD, Tacoma, Wash. Filed Mar. 15, 1919. Serial No. 282,801. 4 Claims. (Cl. 143—145.)



1. In a wood saw, in combination with a saw body having a slot extending inward from its periphery, the rear

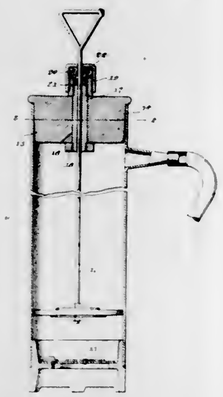
edge of the slot being curved concavely in the plane of the saw body, an elastic tooth having opposed straight edges seated in said slot, and a device movable so as to spring said straight edged tooth into firm engagement with the curved edge of the slot and into conformity therewith.

1,340,129. APPARATUS FOR MANIPULATING INGOTS, BARS, AND THE LIKE IN ROLLING-MILLS. WILLIAM WILLIAMS, Gilwern, Wales. Filed Jan. 19, 1918. Serial No. 212,832. 4 Claims. (Cl. 80—48.)



4. An apparatus for manipulating ingots, bars and the like in rolling mills comprising two manipulator heads as set forth with members adapted to engage under and over the work of one of said members being constituted by an overhanging jaw pivoted in adjustable bearings, substantially as and for the purpose described.

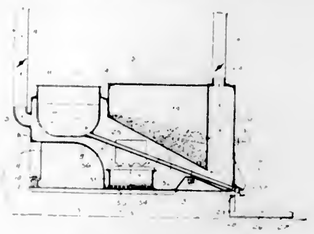
1,340,130. PUMP. RANDOLPH T. WINDLE, New York, N. Y. Filed Sept. 30, 1919. Serial No. 327,609. 3 Claims. (Cl. 286—12.)



1. An improvement for a pump consisting of a removable non-metallic plug frictionally engageable with the wall of the barrel of the pump, a metallic liner extending through said plug adapted to receive the plunger rod and a stuffing-box secured to one end of the liner adapted to surround said rod.

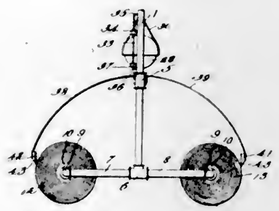
1,340,131. COMBINATION HEATER AND MAINTENANCE-WAGON. HERMAN P. ANDRESEN, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,577. 9 Claims. (Cl. 94—41.)

1. An apparatus of the class described embodying therein a portable fire box, a plurality of separate material receptacles in said fire box, a burner near the middle of the fire box, a smoke stack near each end of said fire box, and



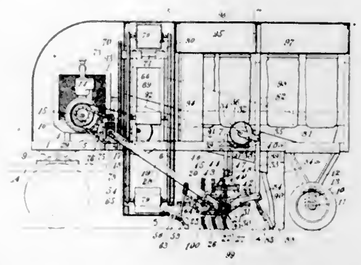
means for regulating the draft through each of said smoke stacks whereby the heat can be properly proportioned between said receptacles.

1,340,132. COMBINED ROLL-HOLDER, CUTTER, AND TWINE-HOLDER. JAMES H. READER, Kannapolis, N. C. Filed July 17, 1915. Serial No. 40,469. Renewed Mar. 30, 1920. Serial No. 370,036. 1 Claim. (Cl. 211—32.)



A roll holder comprising a pair of vertically disposed supporting elements, horizontally disposed arms located at the lower ends of the supporting elements and secured thereto and extending at right angles to the supporting elements, roll-supporting elements journaled in the opposite ends of the respective arms, a bar interposed between the vertically disposed supporting elements and disposed above the planes of the arms and the roll supporting elements, roll-engaging strips, and arcuate shaped arms pivotally carried by the bar and having connection with the roll-engaging strips.

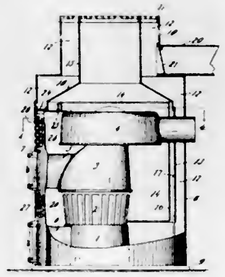
1,340,133. STREET-SWEEPING MACHINE. ALBERT SCHROEDER, Piqua, Ohio, assignor of one-half to Howard C. Rogers, Columbus, Ohio. Filed Mar. 1, 1919. Serial No. 280,165. 5 Claims. (Cl. 15—17.)



1. In a machine of the character specified, the combination with a main supporting frame, of a shaft mounted therein, a plurality of individual supporting frames pivotally mounted on said shaft, sprockets carried by said

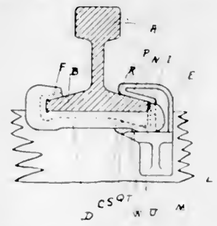
shaft, sprockets carried by said pivotal frames, chains passing around said sprockets, brushes carried by said chains, and a bar passing through said pivotal frames and adapted to limit the movement of said frames.

1,340,134. HOT-AIR FURNACE. WILLIAM J. DOYLE and JUSTUS J. WOLLENHAUPT, Cincinnati, Ohio, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 11, 1915. Serial No. 55,180. 1 Claim. (Cl. 126—99.)



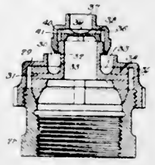
In a furnace of the character described, a heater having fuel and ash-pit passages projecting horizontally therefrom, a face plate connected to the ends of said passages, said face plate having apertures therethrough above each of said passages, providing respectively air intake and exit openings, an outer casing surrounding and spaced from the heater and connecting at opposite sides to sides of the face plate, and a casing inclosing said passages between the face plate and heater and forming a chamber communicating with the face plate openings.

1,340,135. RAIL-ANCHOR. HORATIO G. GILLMOR, Washington, D. C. Filed Nov. 7, 1917. Serial No. 200,758. 24 Claims. (Cl. 238—322.)



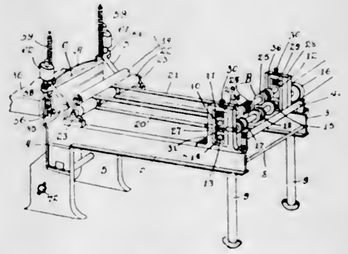
1. A transverse element for rail anchors constructed with rail base flange engaging means at one end a retaining catch at the other end and a body portion having a downward inclination and a twist toward the retaining catch end thereof.

1,340,136. SPRAY-NOZZLE. THOMAS W. MURPHY and WLADYSLAW CZARNECKI, Philadelphia, Pa. Filed Mar. 5, 1918. Serial No. 220,516. 2 Claims. (Cl. 299—115.)



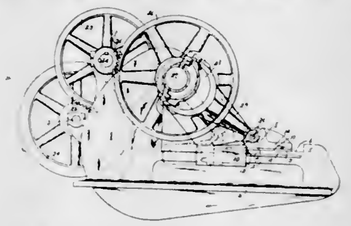
1. The combination in a nozzle structure of a hollow body having a flat interior surface provided with an outlet opening; a deflector element also having a flat surface engaging said surface of the body and including a tubular projection extended through the opening of said body, there being an annular cavity in said element extending around said extension and communicating with the interior of the body through channels entering it tangentially; a cap for said extension having a flat face and a central outlet; and a second deflector element held to the extension by the cap and provided with a flat face engaging the flat face of said cap, said latter element being formed with a central recess having channels in communication with the hollow of the extension and entering said cavity tangentially.

1,340,137. CUTTER. GEORGE J. PFISTER, St. Paul, Minn. Filed Oct. 29, 1918. Serial No. 260,079. 7 Claims. (Cl. 164—49.)



1. A cutting machine of the class set forth, comprising, in combination, a pair of co-acting cutters, one being reciprocable and the other stationary to cut a sheet transversely, belts arranged for feeding said sheet across the cutting edges of said cutters, spring actuating means for raising said reciprocable cutter into spread open position, a friction drive for closing the cutters, a table extending from said cutters adapted to receive the stock, and a control handle adjacent to said table remote from said cutters for controlling the operation of said drive.

1,340,138. OFFSETTING-PRESS. HENRY MILLER, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Mar. 30, 1918. Serial No. 225,791. 9 Claims. (Cl. 78—1.)



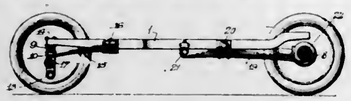
1. In an offsetting press for sheet metal blanks, the combination with a set of relatively fixed and movable clamping members adapted to engage the side edges and flat surfaces of said blanks, and means for actuating one of said members against the edge of the blank and along one of its flat surfaces, to offset the blank bodily.

REISSUES.

14,856. SPRING SUSPENSION FOR MOTOR-VEHICLES. EMIL A. NELSON, Detroit, Mich., assignor to Martin Jurist, Toledo, Ohio. Filed Jan. 26, 1920. Serial No. 354,206. Original No. 1,254,928, dated Jan. 29, 1918, Serial No. 877,654, filed Dec. 17, 1914. 17 Claims. (Cl. 267—41.)

3. For automotive vehicles having a vehicle frame and running gear including a front axle, wheels pivoted thereto, and a rear axle, said vehicle frame having longitudinally spaced side members extending above said axles, a flexible cantaliver spring system for yieldingly distancing and

supporting said frame on said front and rear axles, including a pair of cantaliver springs, one located outside each side member and connected to said side member adjacent to the rear thereof, and to the outside thereof, the



free ends of said springs being connected to said rear axle and a pair of cantaliver multiple leaf springs connected at their rigid ends to the outside face of said side members adjacent to the front end thereof, extending forwardly at an angle to said side members, the free ends of said last mentioned springs being operatively associated with said front axle near the respective ends thereof.

DESIGNS.

55,108. ARTICLE OF MANUFACTURE. HARRY T. ABOLIN, Woodridge, N. J., assignor to Whitcombe, McGeachin & Co., a Partnership composed of H. A. Witcombe and George McGeachin, New York, N. Y. Filed Nov. 1, 1919. Serial No. 335,189. Term of patent 7 years.



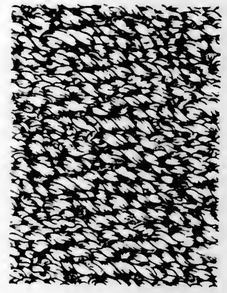
The ornamental design for an article of manufacture, substantially as shown and described.

55,109. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,857. Term of patent 3½ years.



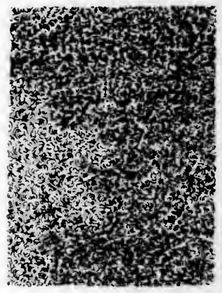
The ornamental design for embossed wall paper, as shown.

55,110. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,858. Term of patent 3½ years.



The ornamental design for embossed wall paper as shown.

55,111. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,859. Term of patent 3½ years.



The ornamental design for embossed wall paper as shown.

55,112. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,860. Term of patent 3½ years.



The ornamental design for embossed wall paper as shown.

55,113. LABEL. EDWIN R. ALLARD, Athol, Mass. Filed Nov. 7, 1918. Serial No. 261,555. Term of patent 7 years.



The ornamental design for a label, as shown.

55,114. RUBBER SOLE-PAD FOR BOOTS AND SHOES. JAMES E. BARNEY, New York, N. Y., assignor to Pioneer Products, Incorporated, Malone, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,127. Term of patent 14 years.

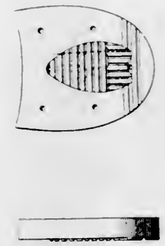
The ornamental design for a rubber sole pad for boots and shoes, as shown.

55,115. RUBBER SOLE-PAD FOR BOOTS AND SHOES. JAMES E. BARNEY, New York, N. Y., assignor to Pioneer Products, Incorporated, Malone, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,128. Term of patent 14 years.



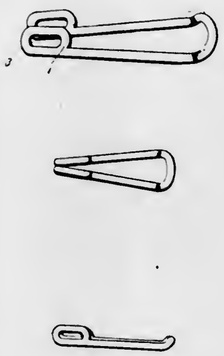
The ornamental design for a rubber sole pad for boots and shoes, as shown.

55,116. RUBBER HEEL-PAD FOR BOOTS AND SHOES. JAMES E. BARNEY, New York, N. Y., assignor to Pioneer Products, Incorporated, Malone, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,129. Term of patent 14 years.



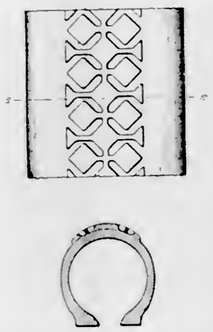
The ornamental design for a rubber heel pad for boots and shoes, as shown.

55,117. CHAIN-TRACE LINK. EDWARD PAUL BELZ, Athens, Wis. Filed Apr. 25, 1919. Serial No. 292,753. Term of patent 14 years.



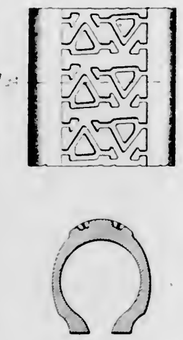
The ornamental design for a chain-trace-link as shown.

55,118. NON-SKID TIRE. WILLIAM E. DUERSTEN, New Castle, Pa. Filed Dec. 15, 1919. Serial No. 345,147. Term of patent 14 years.



The ornamental design for a non-skid tire, as shown.

55,119. NON-SKID TIRE. WILLIAM E. DUERSTEN, New Castle, Pa. Filed Dec. 15, 1919. Serial No. 345,149. Term of patent 14 years.



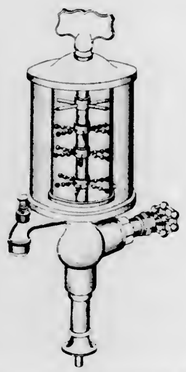
The ornamental design for a non-skid tire, as shown.

55,120. CLOCK-CASE. SIGMUND A. DULCZEWSKI, Buffalo, N. Y. Filed Jan. 7, 1919. Serial No. 270,085. Term of patent 14 years.



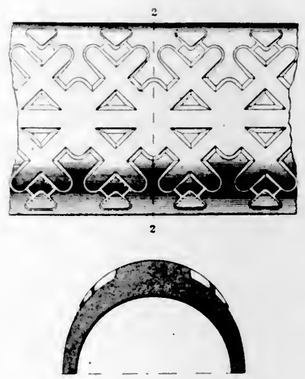
The ornamental design for a clock case as shown.

55,121. BEVERAGE-DISPENSING DEVICE. CHARLES M. EARL, Detroit, Mich. Filed Dec. 15, 1919. Serial No. 345,140. Term of patent 14 years.



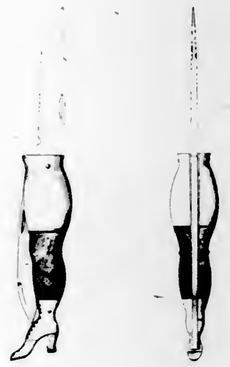
The ornamental design for a beverage dispensing device as shown.

55,122. AUTOMOBILE-TIRE. JACOB B. GABELINE, Burlington, Iowa, assignor to Standard Four Tire Company, Keokuk, Iowa, a Corporation of Iowa. Filed Feb. 4, 1920. Serial No. 356,240. Term of patent 7 years.



The ornamental design for an automobile tire as shown.

55,123. COMBINED POCKET-KNIFE AND BOTTLE-OPENER. JAMES P. HADDIX, Crawford, Nebr. Filed May 10, 1919. Serial No. 296,246. Term of patent 14 years.



The ornamental design for a combined pocket knife and bottle opener, as shown.

55,124. SPRINKLER-HEAD OR SIMILAR ARTICLE. JOHN R. HAMILTON, Yonkers, N. Y., assignor to Automatic Sprinkler Company of America, New York, N. Y., a Corporation of New York. Filed July 22, 1919. Serial No. 312,579. Term of patent 14 years.



The ornamental design for a sprinkler head or similar article, substantially as shown.

55,125. BOTTLE-CAP. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 11, 1919. Serial No. 276,442. Term of patent 14 years.



The ornamental design for a bottle cap, as shown.

55,126. SHOE-PLATE. LEO HASEL, San Francisco, Calif. Filed Oct. 31, 1919. Serial No. 334,868. Term of patent 14 years.



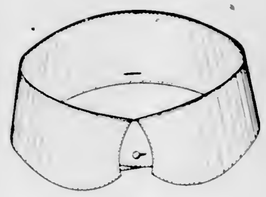
The ornamental design for a shoe plate, as shown.

55,127. HEEL. HERMAN HESS, Baltimore, Md. Filed Jan. 27, 1920. Serial No. 354,482. Term of patent 14 years.



The ornamental design for a heel, as shown.

55,128. FOLD-COLLAR. HUBBARD F. HURD, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a Corporation of New York. Filed Oct. 8, 1915. Serial No. 54,908. Term of patent 14 years.



The ornamental design for a fold-collar as shown.

55,129. TOWEL-URN. WALTER F. KOKEN, St. Louis, Mo. Filed Sept. 15, 1919. Serial No. 324,044. Term of patent 14 years.



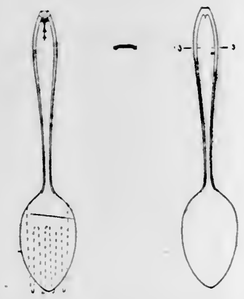
The design for a towel urn, as shown.

55,130. CUSPIDOR. WALTER F. KOKEN, St. Louis, Mo. Filed Sept. 15, 1919. Serial No. 324,045. Term of patent 14 years.



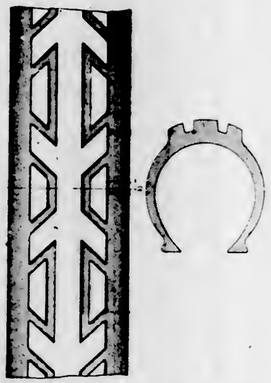
The design for a cuspidor, as shown.

55,131. SPOON, FORK, OR SIMILAR ARTICLE. HENRY KNOTT, Boston, Mass., assignor to The R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Filed Aug. 21, 1919. Serial No. 319,038. Term of patent 7 years.



The ornamental design for a spoon, fork, or similar article, as shown.

55,132. TIRE. EMIL J. KRAFT, Racine, Wis., assignor to Ajax Rubber Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,195. Term of patent 14 years.



The ornamental design for a tire, as shown.

55,133. SHELL FOR A SPARK-PLUG. HARRY F. KUMLER and INGEMAR K. RYSTEDT, Dayton, Ohio, assignors to The Modern Comb and Device Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 12, 1919. Serial No. 276,672. Term of patent 7 years.



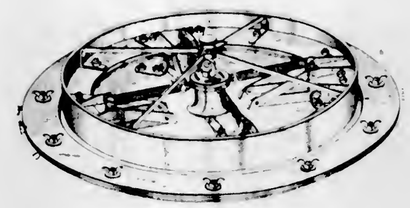
The ornamental design for a shell for a spark plug as shown.

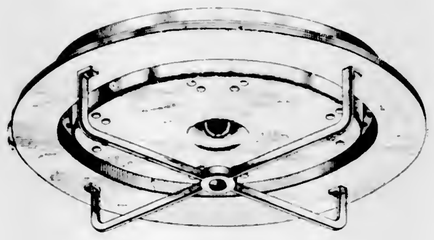
55,134. POST. HENRY A. LANDWEHR, Los Angeles, Calif., assignor to American Cement Products Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 14, 1918. Serial No. 249,914. Term of patent 7 years.



The ornamental design for a post, as shown.

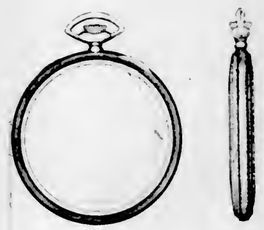
55,135. BALLOON-VALVE. JOHN S. MAXWELL, Richmond, Ind. Filed Dec. 20, 1918. Serial No. 267,737. Term of patent 14 years.





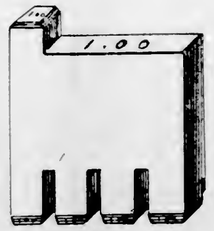
The ornamental design for a balloon valve, substantially as shown.

55,136. WATCH CASE AND BOW. JEREMIAH MCGREVY, Brooklyn, N. Y., assignor to Solidarity Watch Case Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 18, 1918. Serial No. 229,446. Term of patent 14 years.



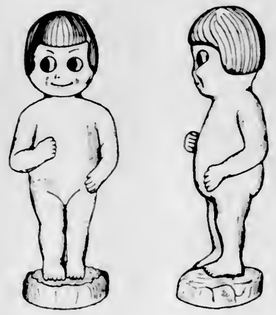
The ornamental design for a watch case and bow, as shown.

55,137. HAND-STAMP. MORRIS S. MILLER, Cleveland, Ohio. Filed Nov. 3, 1919. Serial No. 335,555. Term of patent 14 years.



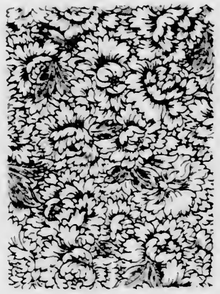
The ornamental design for a hand-stamp, as shown.

55,138. STATUETTE. BERNARD E. RIBG and EARL B. WILLIAMS, Los Angeles, Calif. Filed July 25, 1919. Serial No. 313,384. Term of patent 7 years.



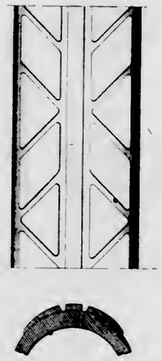
The ornamental design for a statuette as shown.

55,139. EMBOSSED WALL-PAPER. WILLIAM F. ROEHLIN, Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1919. Serial No. 339,447. Term of patent 3½ years.



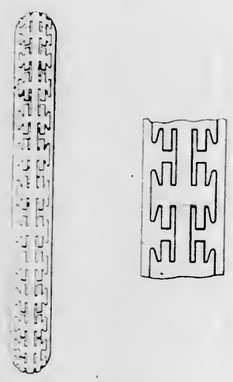
The ornamental design for embossed wall paper, as shown.

55,140. TIRE. WILLIAM SEABRIDGE, Trenton, N. J., assignor to Empire Tire & Rubber Corporation, Trenton, N. J., a Corporation of New Jersey. Filed Dec. 23, 1919. Serial No. 347,026. Term of patent 14 years.



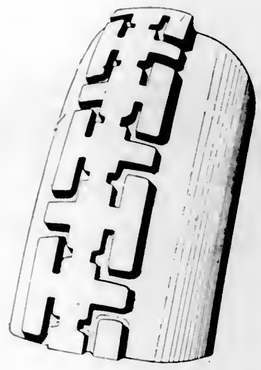
The ornamental design for a tire as shown.

55,141. PNEUMATIC TIRE. EDWARD O. STERNS, Columbus, Ohio, assignor to The Rotary Tire and Rubber Company, Zanesville, Ohio, a Corporation of Ohio. Filed May 8, 1919. Serial No. 295,783. Term of patent 14 years.



The ornamental design for a pneumatic tire as shown.

55,142. TIRE. EDGAR A. TINSMAN, Willoughby, Ohio, assignor to the Standard Tire Company, Willoughby, Ohio. Filed Jan. 5, 1920. Serial No. 349,619. Term of patent 14 years.



The ornamental design for a tire, as shown.

55,143. TOOTHBRUSH-CASING. EDWARD H. WIERSCHING and EDWARD K. WIERSCHING, Binghamton, N. Y. Filed May 24, 1919. Serial No. 299,674. Term of patent 7 years.



The ornamental design for a toothbrush casing, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 11, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 89,590. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STEPHENS-ADAMSON MANUFACTURING CO., Aurora, Ill. Filed Oct. 1, 1915.

UNIT CARRIER

No claim is made to any exclusive right to use the word "Carrier" by itself.

Particular description of goods.—Roller-Brackets for Belt Conveyers.

Claims use since July 1, 1911.

Ser. No. 97,083. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y. Filed Aug. 4, 1916.

BINGO

Particular description of goods.—Stove-Polish, Stove-Polishing Outfits, Shoe-Polish, Shoe-Polishing Outfits, and Shoe-Cleaner.

Claims use since June 28, 1916.

Ser. No. 100,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EGIDIO GALBANI, Melzo, Italy. Filed Dec. 23, 1916.



Particular description of goods.—Cheeses.

Claims use since Feb. 26, 1912.

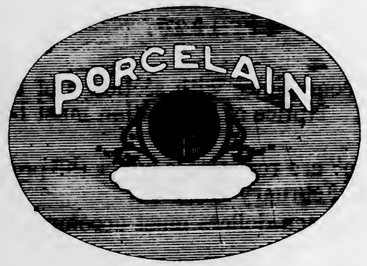
Ser. No. 104,619. (CLASS 38. PRINTS AND PUBLICATIONS.) MEDICINAL SOCIETY—AMERICAN BRANCH—INC., Boston, Mass. Filed June 22, 1917.



Particular description of goods.—Fine-Art Publications, Illustrated Works Relating to Art, Translations and Reproductions of Old and Rare Books, and Reprints of Books of Previously-Published Works or New Works in Which Facsimile Collotype Printing is the Form of Illustrations Employed.

Claims use since July 26, 1916.

Ser. No. 107,123. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE JACOB J. VOLLRATH MFG. CO., Sheboygan, Wis. Filed Nov. 2, 1917.



No claim being made to the word "Porcelain" apart from the mark shown in the drawing. The horizontal and vertical lines shown in the drawing designate blue and red coloring, respectively.

Particular description of goods. — Steel Enameled Wares—Namely, Baby-Baths, Berne-Biggins, Coffee-Biggins, Asparagus-Boilers, Coffee-Boilers, Double Boilers, Fish-Boilers, Ham-Boilers, Rice-Boilers, Custard-Bowls, Mixing-Bowls, Soup-Bowls, Sugar-Bowls, Washbowls, Covered Buckets, Bakers, Gravy-Boats, Chambers, Chamber-Covers, Saucepan and Kettle Covers, Colanders, Drinking-Cups, Miners' Cups, Straight Cups, Cuspidors, Cups and Saucers, Dippers, Sauce-Dishes, Vegetable-Dishes, Funnels, Teakettle-Insets, Vegetable-Insets, Convex Kettles, Milk-Kettles, Teakettles, Preserving-Kettles, Ladles, Mugs, Water-Pails, Bake-Pans, Fry-Pans, Hotel-Pans, Egg-Pans, Individual Pans, Milk-Pans, Pudding-Pans, Cake-Pans, Dish-Pans, Saucepans, Stew-Pans, Cream-Pitchers, Water-Pitchers, Dinner-Plates, Pie-Plates, Soup-Plates, Meat-Platters, Coffee-Pots, Sauce-Pots, Straight Pots, Teapots, Bread-Raisers, Roasters, Saucers, Skimmers, Spittoons, Cooking-Steamers, Tea-Steepers, Sinks, Sink-Strainers, Soup-Strainers, Tea and Coffee Strainers, Serving-Trays, and Tumblers.

Claims use since December, 1905.

Ser. No. 107,567. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PETRI AND JONES COMPANY, INCORPORATED, Boston, Mass. Filed Nov. 23, 1917.



Particular description of goods.—Machinery and Appliances Used in the Manufacture of Foods, Drugs, and Chemicals—Namely, Mixing-Machines, Grinding-Machines, Steam-Engines, Internal-Combustion Engines, Tablet-Machines, Gyrators, Bucket Elevators, and Screw Conveyers.

Claims use since Mar. 2, 1913.

Ser. No. 108,043. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHARLES HOWARD SMITH, Irvington, N. J., assignor to International Coal Products Corporation, Richmond, Va., a Corporation of Virginia. Filed Dec. 18, 1917.

CARBOCOAL

No claim is made to the letters "Coal" except as combined or associated with the letters "Carbo."

Particular description of goods.—Briquets Made from Coal.

Claims use since July 17, 1917.

Ser. No. 108,211. (CLASS 39. CLOTHING.) FRÉDÉRIC GEORGES BAUGATZ, Paris, France. Filed Dec. 29, 1917.

F. Georges

The facsimile signature shown being in reproduction of my own handwriting.

Particular description of goods.—Corsets and Belts in the Nature of and Worn as Substitutes for Corsets.

Claims use since June 1, 1896.

Ser. No. 110,033. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS. ARTHUR E. PETERSEN, Portland, Oreg. Filed Apr. 6, 1918.



Particular description of goods.—A Laundry-Washing Compound.

Claims use since Dec. 5, 1917.

Ser. No. 111,504. (CLASS 37. PAPER AND STATIONERY.) HENRY MOSS & CO., INC., New York, N. Y. Filed June 11, 1918.



Particular description of goods.—Stencils, Oil-Board, Wax Seals, and Rubber Bands.

Claims use since Sept. 1, 1915.

Ser. No. 111,625. (CLASS 15. OILS AND GREASES.) PETROLEUM PRODUCTS CO., San Francisco, Calif. Filed June 17, 1918.

TORCH

Particular description of goods.—Kerosene.

Claims use since Sept. 27, 1917.

Ser. No. 111,798. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THOMAS R. E. MILLER, Evansville, Ind. Filed June 25, 1918.

TREMCO

Particular description of goods—Metal Pipes, Pipe-Couplings, Pipe-Reducers, Pipe-Unions, Pipe-Elbows.

Claims use since June 1, 1918.

Ser. No. 113,591. (CLASS 37. PAPER AND STATIONERY.) POWERS PAPER COMPANY, Springfield, Mass. Filed Oct. 5, 1918.

PONGEE

Particular description of goods.—Non-Carbonized Typewriting-Paper and Printing-Paper.

Claims use since 1908.

Ser. No. 114,083. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE PITOMETER COMPANY, New York, N. Y. Filed Nov. 7, 1918.

PITOMETER

Particular description of goods.—Instruments for Indicating, Measuring, and Recording the Velocity of Flowing Streams.

Claims use since about Jan. 7, 1897.

Ser. No. 114,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN FERNANDO CANNING CO., San Fernando, Calif. Filed Nov. 25, 1918.

GARDEN GATE

Particular description of goods.—Canned Peaches and Canned Apricots.

Claims use since Apr. 20, 1918.

Ser. No. 115,140. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE W. J. DONNELLY COMPANY, Detroit, Mich. Filed Jan. 13, 1919.



No claim is made for the exclusive use of the words "Motor Fabrics."

Particular description of goods.—Waterproof Automobile Top and Curtain Material of a Textile Nature, Cotton, Silk, and Woolen Fabrics Used for Upholstering and Head-Lining Purposes in Closed Automobile-Bodies, and Enameled Muslins, Drills, and Ducks for Trimming Motor-Vehicles.

Claims use since Dec. 23, 1918.

Ser. No. 115,178. (CLASS 39. CLOTHING.) JOHNSON CITY MILLS, Johnson City, Tenn. Filed Jan. 14, 1919.



Particular description of goods.—Men's, Women's, and Children's Hosiery.

Claims use since Nov. 15, 1918.

Ser. No. 115,444. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRENE HAMMOND STOLL, Cleveland, Ohio. Filed Jan. 25, 1919.



Particular description of goods.—A Fluid Dye Compound Especially Adapted for Dyeing Hair, and More Particularly Live Hair.

Claims use since Dec. 16, 1918.

Ser. No. 115,753. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUIS A. BLOCK, New Orleans, La. Filed Feb. 11, 1919.

GLAS-GLOS

Particular description of goods.—A Polishing and Cleaning Liquid for Use on Furniture, Floors, and Automobile Chassis and Bodies.
Claims use since Sept. 1, 1918.

Ser. No. 115,754. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOUIS A. BLOCK, New Orleans, La. Filed Feb. 11, 1919.

GLAS-GLOS

Particular description of goods.—A Cleaning Liquid Adapted for General Use and Being Particularly Serviceable for Removing Grease and Dirt from the Hands and for the Removal of Ink Stains.
Claims use since Sept. 1, 1918.

Ser. No. 116,005. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE NARROW FABRIC CO., Wyomissing borough, near Reading, Pa. Filed Feb. 19, 1919.

Nufashond

Particular description of goods.—Shoe-Lacings, Corset-Lacings, Braided and Loom Edgings, Woven and Braided Elastics, Lingerie-Braids, Tailors' Braids, Garment-Trimming Braids, Woven and Braided Garter and Armband Elastic and Non-Elastic Webs, Binding Braids and Tapes, Soutache and Peter Thompson Braids, Rick-Racks and Wave-Braids, Middy-Lacings, Breeches and Legging Lacings, Skirt-Braids, and Braided Edging and Insertion.
Claims use since 1907.

Ser. No. 116,205. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER KENDORSKI, Philadelphia, Pa. Filed Feb. 28, 1919.

MARVEL FUME

Particular description of goods.—A Deodorant, an Insecticide, and a Roach-Powder.
Claims use since Dec. 16, 1918.

Ser. No. 116,415. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GREB COMPANY, INC., Portland, Me., and Boston, Mass. Filed Mar. 8, 1919.

GREB PRODUCTS

No claim is made to the word "Products" appearing in said drawing apart from the mark shown in the drawing.
Particular description of goods.—Tools and Attachments for Removing, from Shafts and the Like, Gears, Pulleys, and the Like; Presses and Parts Thereof for Bending and Straightening Arbors and the Like, Tools for Removing and Replacing Automobile Tires and Rims, Presses for Reforming and Removing Bushings, Tools for Lifting Valves, and Valve-Grinders.
Claims use since about October, 1918.

Ser. No. 116,505. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TORRES Y RIBELLES, Sevilla, Spain. Filed Mar. 12, 1919.

BETIS

Particular description of goods.—Olive-Oil and other Edible Oils.
Claims use since the 5th of June, 1915.

Ser. No. 116,735. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EVERETT, AUGHENBAUGH & CO., Waseca, Minn. Filed Mar. 20, 1919.

SUNBURST

Particular description of goods.—Bread.
Claims use since Jan. 1, 1901.

Ser. No. 117,605. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHÉRI, INCORPORATED, Philadelphia, Pa. Filed Mar. 29, 1919.

CHÉRI

Particular description of goods.—Chocolates and Candies.
Claims use since about September, 1918.

Ser. No. 117,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELBERFELD CHEMICAL & MFG. CO., Sandwich, Mass. Filed Apr. 19, 1919.

ELBERKO

Particular description of goods.—Ammonia, Bluing, Bleaching Preparation, and Disinfectant.
Claims use since about Mar. 1, 1918.

Ser. No. 117,659. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRE BROS. & CO., LIMITED, Leicester, England. Filed Apr. 21, 1919.

THE Snowdrop

Particular description of goods.—Elastic Webs.
Claims use since the 5th of December, 1917.

Ser. No. 117,788. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WEST COAST SOAP CO., Oakland, Calif. Filed Apr. 23, 1919.

BEAVER

Particular description of goods.—Laundry Soap.
Claims use since Feb. 25, 1919.

Ser. No. 117,797. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. L. BLAHNIK & SONS, Chicago, Ill. Filed Apr. 24, 1919.

BRONCHITINE



The portrait shown being that of Veneel Lorenz Blahnik.
Particular description of goods.—An Internal Remedy for Relief of Various Affections of the Lungs and Throat, Colds, Coughs, Influenza, Bronchitis, Whooping-Cough, Hoarseness, and the Relief of Consumptive and Asthmatic Patients in Early or Advanced Stages of the Disease.
Claims use since about the year 1895.

Ser. No. 117,893. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANTHONY OVERTON, Chicago, Ill. Filed Apr. 26, 1919.

RED DIAMOND

Particular description of goods.—Shoe and Leather Polish and Metal-Polish.
Claims use since Apr. 12, 1919.

Ser. No. 117,934. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill. Filed Apr. 28, 1919.

G-MERIT METAL-W

No claim is made to the exclusive use of the words "Merit Metal" apart from the mark shown in the drawing.
Particular description of goods.—Babbitt Metal, Bearing Metal, Type-Metal.
Claims use since Dec. 31, 1917.

Ser. No. 117,997. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY SCHOENFELD, New York, N. Y. Filed Apr. 29, 1919.



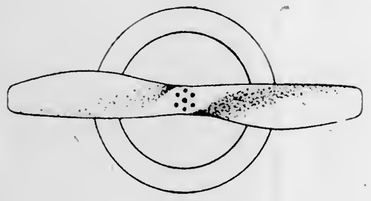
Particular description of goods.—Saffron.
Claims use since February, 1909.

Ser. No. 118,321. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NEWARK PLASTER COMPANY, Newark, N. J. Filed May 9, 1919.

Pilgrim  Brand

The picture being fanciful, the word "Brand" being disclaimed.
Particular description of goods.—Plaster of Paris of Non-Adhesive Character for Use of Dentists and Surgeons for Laboratory Work.
Claims use since December, 1918.

Ser. No. 118,389. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LAWRENCE AIRPLANE MODEL AND SUPPLY COMPANY, Chicago, Ill. Filed May 12, 1919.



Particular description of goods.—Toy Airplanes.
Claims use since about the 2d day of May, 1919.

Ser. No. 118,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLONIAL PRESERVE COMPANY, Philadelphia, Pa. Filed May 17, 1919.



The applicant disclaims the word "Brand" as a part of the drawing or of the trade-mark.
Particular description of goods.—Canned Fruits.
Claims use since March, 1917.

Ser. No. 118,720. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WOODTITE LABORATORIES, Modesto, Calif. Filed May 19, 1919.

·KANTMAR·

The lining in the drawing indicates shading only.
Particular description of goods.—Compounded Autowash Used as a Cleanser.
Claims use since Jan. 2, 1919.

Ser. No. 119,047. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSENBERG BROS., St. Louis, Mo. Filed May 29, 1919.

ROSBRO

Particular description of goods.—Woolen Cloth for Tailoring Purposes.
Claims use since Apr. 21, 1919.

Ser. No. 119,686. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCISCO S. VASQUEZ, Los Angeles, Calif. Filed June 16, 1919.



Particular description of goods.—Tobasco Sauce, Pickled Hot Peppers, and Red-Chilli Sauce.
Claims use since about July, 1917.

Ser. No. 119,833. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JOSEPH C. KAHAN, Philadelphia, Pa. Filed June 21, 1919.

ACTINEX

The lining at the edge of the panel is used for shading only.
Particular description of goods.—Optical Goods—Namely, Telescopes, Microscopes, Field-Glasses, Binoculars, Ophthalmic Lenses, Eyeglasses, and Spectacles.
Claims use since May 1, 1919.

Ser. No. 120,632. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FREDERICK E. ANDREWS, Pelham Manor, N. Y. Filed July 17, 1919.



Particular description of goods.—Preparation for Polishing Metal and Glass, Such as Gold, Silver, Nickel, Brass, Copper, Aluminum, Porcelain, and Glass
Claims use since May 5, 1919.

Ser. No. 120,693. (CLASS 39. CLOTHING.) BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif. Filed July 19, 1919.



No claim is made to the representation of overalls apart from the mark shown on the drawing.
Particular description of goods.—Overalls, Jumpers, Overall-Coats, Pants of Khaki, Corduroy, Oversults or Combination-Overalls.
Claims use since the year 1897.

Ser. No. 120,739. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. B. ANSBACHER & COMPANY, INC., New York, N. Y. Filed July 21, 1919. Under ten-year proviso.

ANSBACHER

Particular description of goods.—Dry Paints, Water Paste Paints, and Paint and Varnish Pigments.
Claims use since June, 1872.

Ser. No. 120,740. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. B. ANSBACHER & COMPANY, INC., New York, N. Y. Filed July 21, 1919.



Particular description of goods.—Dry Paints, Water Paste Paints, and Paint and Varnish Pigments.
Claims use since July 2, 1919.

Ser. No. 120,758. (CLASS 43. THREADS AND YARN.) H. E. LOCKE & COMPANY, INC., Boston, Mass. Filed July 21, 1919.

LOCKESILK

Particular description of goods.—Thread and Yarn.
Claims use since June, 1907.

Ser. No. 120,792. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) FRIEDMAN & MOSS, INC., New York, N. Y. Filed July 22, 1919.



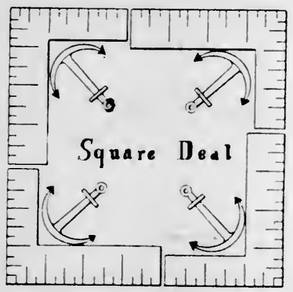
No claim is made to the word "Silks" apart from the mark shown on the drawing.
Particular description of goods.—Plain and Printed Broad Silks in pieces.
Claims use since June 2, 1919.

Ser. No. 121,003. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) R. H. MACY & CO., INC., New York, N. Y. Filed July 28, 1919.



Particular description of goods.—Phonographs, Graphophones, Talking-Machines, Talking-Machine Records, Needles, and Record-Albums.
Claims use since June 30, 1919.

Ser. No. 121,008. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) W. A. MCCOLLOUGH & SONS, INC., Webster City, Iowa. Filed July 28, 1919.



Particular description of goods.—Watering-Fountains for Poultry and Feed-Hoppers for Stock and Poultry.
Claims use since May, 1914.

Ser. No. 121,185. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ISAAC SAMUEL, Elmira, N. Y. Filed Aug. 1, 1919.

CLEANRITE

Particular description of goods.—Soap.
Claims use since Mar. 1, 1919.

Ser. No. 121,245. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GRAND RAPIDS SCHOOL EQUIPMENT CO., Grand Rapids, Mich. Filed Aug. 4, 1919.



No claim is made to the words "The Artist in Reality" apart from the mark as shown in the drawing nor to the words "Grand Rapids Phonograph Co., Grand Rapids, Mich."
Particular description of goods.—Phonographs.
Claims use since July 21, 1919.

Ser. No. 121,250. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALEXANDER SEYMOUR MANN, Providence, R. I. Filed Aug. 4, 1919.

SULFO-SOAP

No claim is made to the exclusive right to use the word "Soap" apart from the mark shown in the drawing.
Particular description of goods.—A Cleanser in Powdered Form for Textile Goods.
Claims use since August, 1918.

Ser. No. 121,289. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE J. ALEXANDER MFG. CO. INC., New York, N. Y. Filed Aug. 6, 1919.

Mirrascope

Particular description of goods.—Rear-View Mirrors for Automobiles.
Claims use since 1907.

Ser. No. 121,392. (CLASS 39. CLOTHING.) S. HALFF & CO., Los Angeles, Calif. Filed Aug. 8, 1919.



Particular description of goods.—Hosiery for Men, Women, Children, and Infants.
Claims use since Mar. 28, A. D. 1919.

Ser. No. 121,736. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. C. BAY COMPANY, Chicago, Ill., and Bluffton, Ind. Filed Aug. 18, 1919.

Solo Concerto

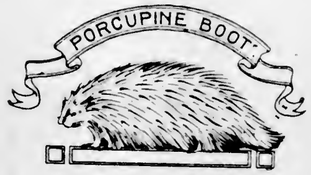
Particular description of goods.—Pianos and Piano-Players.
Claims use since August, 1916.

Ser. No. 121,737. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. C. BAY COMPANY, Chicago, Ill., and Bluffton, Ind. Filed Aug. 18, 1919.

Meldorf

Particular description of goods.—Pianos and Piano-Players.
Claims use since October, 1916.

Ser. No. 121,788. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) EDGAR M. STEELL, Spokane, Wash., assignor to Porcupine Manufacturing Company, Spokane, Wash. Filed Aug. 18, 1919.



Applicant desires to disclaim the use of the word "Boot."
Particular description of goods.—Automobile-Tire Patches and Inner Liners.
Claims use since Nov. 30, 1918.

Ser. No. 122,126. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LANGE SOAP CO., San Antonio, Tex. Filed Aug. 29, 1919.

No 1

Particular description of goods.—Soap.
Claims use since Jan. 1, 1908.

Ser. No. 122,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DONMEYER, GARDNER CO., Peoria, Ill. Filed Aug. 30, 1919. Under ten-year proviso.

SNOW LOAF

Particular description of goods.—Wheat-Flour.
Claims use since 1883.

Ser. No. 122,159. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DONMEYER, GARDNER CO., Peoria, Ill. Filed Aug. 30, 1919. Under ten-year proviso.

SOLID COMFORT

Particular description of goods.—Wheat-Flour.
Claims use since 1883.

Ser. No. 122,425. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DETROIT CREAMERY COMPANY, Detroit, Mich. Filed Sept. 8, 1919.

Vel-Box

No claim being made to the use of the word "Box" apart from the mark shown.
Particular description of goods.—Ice-Cream.
Claims use since Apr. 1, 1919.

Ser. No. 122,604. (CLASS 39. CLOTHING.) MADANSKY BROTHERS, Oklahoma, Okla. Filed Sept. 12, 1919.

KOOL KLAD KLAN

Particular description of goods.—Men's and Boys' Suits of Cotton, Wool, or Silk; Men's and Boys' Shoes of Kid, Kangaroo, or Calf Leathers and Cotton or Linen Fabrics; Men's and Boys' Hats of Straw, Cotton, or Silk; Men's and Boys' Caps of Cotton, Silk, or Wool; Men's and Boys' Dress and Negligée Shirts of Cotton, Linen, or Silk; Men's and Boys' Neckties in Four-in-Hand, Bat-Wing, Teck, Shield, and Shield-Teck Styles of Cotton, Mercerized, or Silk Fabrics; Men's and Boys' Hosiery of Cotton, Mercerized, or Silk Fabrics; Men's and Boys' Gloves of Cotton or Silk Fabrics; Men's and Boys' Collars of Cotton, Mercerized, Linen, or Silk Fabrics; Men's and Boys' Union-Suits of Cotton, Mercerized, Linen, and Silk Fabrics; Men's and Boys' Undershirts and Drawers of Silk, Linen, Mercerized, and Cotton Fabrics.
Claims use since May 28, 1918.

Ser. No. 122,685. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CANT-SLIP CO., Rochester, N. Y. Filed Sept. 15, 1919.



No claim is made to the printed matter appearing on the drawing apart from the mark shown on the drawing.
Particular description of goods.—A Liquid Preparation Used for Preventing Paper from Slipping While Feeding Over the Rubber Platen on a Typewriter or Multigraph-Machine.
Claims use since Aug. 14, 1919.

Ser. No. 123,217. (CLASS 33. GLASSWARE.) MACBETH-EVANS GLASS COMPANY, Pittsburgh, Pa. Filed Sept. 27, 1919.



No claim is made to the word "Bakewell" except to the particular form in which it is used here and in association with the word "Macbeth" and displayed in the manner shown.
Particular description of goods.—Glass Dishes.
Claims use since about Jan. 15, 1919.

Ser. No. 123,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA SODA PRODUCTS CO., San Francisco, Calif. Filed Oct. 20, 1919.

SNOW CRYSTALS

Particular description of goods.—A Preparation Used for Softening Water.
Claims use since July 21, 1919.

Ser. No. 124,070. (CLASS 39. CLOTHING.) ADOLPH R. HAAS, Chicago, Ill. Filed Oct. 22, 1919.

A.R.H. BRAND

The word "Brand" as appearing in the drawing is disclaimed.
Particular description of goods.—Ladies' Waists and Blouses.
Claims use since June, 1914.

Ser. No. 124,111. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON, COWDIN AND CO., INC., New York, N. Y. Filed Oct. 23, 1919.



The lining indicating gold color, no claim being made to the words "Satin de Luxe" apart from the mark shown.
Particular description of goods.—Ribbons in the Piece.
Claims use since 1900.

Ser. No. 124,180. (CLASS 12. CONSTRUCTION MATERIALS.) J. D. INSULATING & REFRIGERATING CO. LTD., Liverpool, England. Filed Oct. 25, 1919.

FLOORITE.

Particular description of goods.—Composition Fireproof Floorings and Coverings for Partitions, Walls, and Roofings.
Claims use since 1913.

Ser. No. 124,378. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WARREN TOOL AND FORGE COMPANY, Warren, Ohio. Filed Oct. 30, 1919.

QuiKwerK

Particular description of goods.—Coal-Pick Eyes, Drifting-Pick Eyes, Railroad-Pick Eyes, Surface-Pick Eyes, Railroad-Picks, Drifting-Picks, Contractors' Picks, Surface-Picks, Ore-Picks, Tamping-Picks, T-Tampers, Mining or Pole Picks, Concrete-Picks, Quarry-Picks, Stone-Picks, Coal-Picks, Railroad-Adzes, Pick-Mattocks, Mattocks, Nursery-Mattocks, Bush-Mattocks, Asphalt-Mattocks, Cooper-Froes, Coopers' Hoop-Drivers, Grub-Hoes, Hazel-Hoes, Accomac-Hoes, Vineyard-Hoes, Palmetto-Hoes; Solid-Box Blacksmiths' Vises, Vise-Boxes, and Screws; Crowbars, Pining-Bars, Claw-Bars with Heel, Claw-Bars without Heel, Gooseneck Claw-Bars, Carpenters' Standard-Bend Wrecking-Bars, Carpenters' Straight Wrecking-Bars, Carpenters' Gooseneck Wrecking-Bars, Tamping-Bars, Tamping-Bar for Pneumatic Tie-Tamping Machine, Road-Masters' Association Tamping-Bars, Tamping-Top Post-Hole Diggers, Loop-Handle Post-Hole Diggers, Timber or Logging Bars, Diamond or Round Point Telegraph-Bars, Telegraph Digging and Tamping Bars, Bush-Hammers, Stone-Axes, Single-Face Mason-Hammers, Mason-Hammers with Teeth, Single-Face Spalling-Hammers, Double-Face Spalling-Hammers, Oval-Face Stone-Sledges, Flat-Face Stone-Sledges, Nevada or Long Pattern Striking or Drilling Hammers, Oregon or Short Pattern Striking or Drilling Hammers, Missouri-Pattern Striking-Hammers, California-Pattern Hand Drilling-Hammers, Italian or Dago Pattern Hammers, New England or Granite Pattern Hand Drilling-Hammers, Colorado-Pattern Hand Drilling-Hammers, Coal Sledges or Mauls, Octagon-Pattern Horseshoe-Turning Sledge, Western-Pattern Horseshoe-Turning Sledge, New England Cross-Pein Sledges, Double-Face Blacksmith-Sledges, Cross-Pein Blacksmiths' Sledges, Straight-Pein Blacksmith-Sledges, Engineers' or Western Pattern Blacksmiths' Handled Hand-Hammers, Double-Face Blacksmiths' Handled Hand-Hammers, New England Pattern Blacksmiths' Handled Hand-Hammers, Engineers' or Western Pattern Full Polished Handled Hammers, Double-Face Blacksmiths' Full Polished Handled Hand-Hammers, Blacksmiths' New England Pattern Full Polished Handled Hand-Hammers, Napping-Hammers, French Hammers, Macadamizing-Hammers, Plow-Hammers, Flogging-Hammers, Standard-Pattern Railroad-Spike Mauls, Bell or Pittsburgh Pattern Spike-Mauls, Pennsylvania Railroad Pattern Spike-Mauls, Ship or Top Mauls, Michigan-Pattern Wood-Chopper Mauls, Straight-Bit Oval-Eye Wood-Chopper Mauls, Oregon-Pattern Oval-Eye Wood-Choppers' Mauls, Oregon-Pattern Ax-Eye Wood-Choppers' Mauls, Square-Head Wedges, Truckee-Pattern Wedges, Truckee-Pattern Flared-Bit Wedges, Oregon Wood-Choppers' Splitting-Wedges, Cedar Splitting-Wedges; Lake Superior Pattern Wedges, (Frost Wedge;) Oregon Falling-Wedges, Townsend Falling-Wedges, Puget Sound Falling-Wedges, California Falling-Wedges, Wide-Pattern Bucking-Wedges, Hanging Wedges, Narrow-Pattern Falling-Wedges with Ears, Broad-Pattern Falling-Wedges with Ears, Coal-Wedges, Tie-Wedges, Stave-Wedges, Saw-Wedges, Stone-Wedges, Rail-Forks, Rail-Tongs, Tie-Tongs, Track-Wrenches, Track-Punches, Splitting-Chisels, Track-Chisels, Blacksmith Hot Chisels, Blacksmith Cold Chisels, Set-Hammers, Blacksmith Square Flatters, Blacksmiths' Round Punches, Blacksmiths' Square Punches, Top Fullers, Bottom Fullers, Hardies, Toe-Hardies, Heading-Tools for Putting Heads on Bolts, Rivet-Busters or Side Chisels, Drift-Pins Used in Structural Work for Aligning Members to be Riveted, Top and Bottom Swages, Horseshoers' Creasers and Punches, Rivet-Headers, Backing-Out Punches, Boiler-Picks, Scaling-Hammers, Hand Chipping-Chisels, Agricultural Hand Chipping-Chisels, Cape-Chisels, Round-Nose Cape-Chisels, Diamond-Point Chisels, Hand-Punches, Sucker-Rod Elevators, Single Pick-Up Tongs, Horseshoers' Tongs, Bolt or Curved-Lip Tongs, Straight-Lip Tongs, Gad-Tongs, and Rivet-Tongs.
Claims use since June, 1912.

Ser. No. 124,639. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALLAN K. BOWMAN, Wilkinsburg, Pa. Filed Nov. 7, 1919.

SAMARITAN

Particular description of goods.—Cleaning Compounds—Namely, Wall-Paper Cleaner Composed of Salt, Flour, and a Binder.
Claims use since Oct. 1, 1919.

Ser. No. 124,658. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AUGUST ERNEST MAIRE, Minneapolis, Minn. Filed Nov. 7, 1919.

EMPECO

Particular description of goods.—Cold-Water Paint.
Claims use since on or about Aug. 1, 1899.

Serial No. 124,701. (CLASS 32. FURNITURE AND UPHOLSTERY.) W. F. WHITNEY COMPANY, South Ashburnham, Mass. Filed Nov. 8, 1919.



No claim is made for the representation of a chair, for the words "Established 1868," or for the word "Chairs" apart from the mark as shown in the drawing.
Particular description of goods.—Ordinary Chairs in Domestic Use.
Claims use since July 1, 1919.

Ser. No. 124,751. (CLASS 39. CLOTHING.) SAM EPSTEIN, Raeford, N. C. Filed Nov. 11, 1919.



No claim is made for the words "The Shoe" apart from the remainder of the trade-mark.
Particular description of goods.—Leather Shoes.
Claims use since Oct. 1, 1919.

Ser. No. 124,785. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) RAY S. CHURCHILL, Danville, Ill. Filed Nov. 12, 1919.

N. C. 4



Particular description of goods.—Soldering Compounds in Powder Form.
Claims use since Oct. 11, 1919.

Ser. No. 124,830. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE F. A. AMES COMPANY, Owensboro, Ky. Filed Nov. 13, 1919.

Amesbilt

Consisting of the word "Amesbilt."
Particular description of goods.—Buggies and Carriages, Automobile-Bodies, Attachments for Converting Pleasure-Automobiles into Trucks, Truck-Bodies, and Truck-Cabs.
Claims use since about the 1st day of May, 1914.

Ser. No. 124,922. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Nov. 14, 1919.

WALRUS

Particular description of goods.—Arctics.
Claims use since December, 1908.

Ser. No. 124,935. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HANSON & VAN WINKLE COMPANY, Newark, N. J. Filed Nov. 15, 1919.

RED SEAL
HVW
LIME COMPOSITION

No claim is made to the words "Lime Composition" apart from the mark shown on the drawing.
Particular description of goods.—A Preparation in Cake Form for Polishing Metals, and Particularly Nickel-Plated Metals.
Claims use since Oct. 15, 1919.

Ser. No. 124,936. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HANSON & VAN WINKLE COMPANY, Newark, N. J. Filed Nov. 15, 1919.

RED SEAL

Particular description of goods.—A Preparation in Cake Form for Polishing Metals, and Particularly Nickel-Plated Metals.
Claims use since Oct. 15, 1919.

Ser. No. 124,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEYER BROTHERS DRUG COMPANY, St. Louis, Mo. Filed Nov. 15, 1919.



Particular description of goods.—Perfumes, Face-Creams, Lip-Pomade, Bath-Salt, Massage-Cream, Cold-Cream, Face-Powder, Talcum Powder, Toilet Water, Sachet-Powder, Eyebrow-Grower, and Beauty-Powder.
Claims use since July 22, 1908.

Ser. No. 124,972. (CLASS 32. FURNITURE AND UPHOLSTERY.) CHICAGO HARDWARE FOUNDRY COMPANY, North Chicago, Ill. Filed Nov. 17, 1919.

SANI ONYX METAL

The trade-mark consists of a combination of the words or terms "Sani-Onyx-Sani-Metal," arranged in the manner shown in the drawing. No claim is made to the terms "Metal" or "Onyx" apart from the mark shown in the drawing.
Particular description of goods.—Industrial Lunch-Room Equipments—Namely, Stools, Chairs, Racks, Tables, Table-Tops, Table-Bases, Table-Brackets, and Table Set-Ups.
Claims use since Jan. 1, 1919.

Ser. No. 124,990. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed Nov. 17, 1919.

HAYNES

Particular description of goods.—Automobiles.
Claims use since 1907.

Ser. No. 125,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMPSON G. WALTON, Chicago, Ill. Filed Nov. 24, 1919.

TONIC CINOT IC

No claim is made to the exclusive use of the word "Tonic" apart from the mark as shown in the drawing.
Particular description of goods.—A Preparation for a Medicinal Tonic for the Treatment of Stomach, Kidneys, Liver, and Bowels.
Claims use since May 13, 1918.

Ser. No. 125,411. (CLASS 15. OILS AND GREASES.) UNITED PRODUCTS & SALES CORPORATION, San Francisco, Calif. Filed Nov. 28, 1919.

MERLO HI-TEST



No claim being made to the word "Hi-Test" apart from the mark as shown.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Aug. 15, 1919.

Ser. No. 125,421. (CLASS 15. OILS AND GREASES.) W. B. DICK & COMPANY, INC., New York, N. Y. Filed Nov. 29, 1919.

ILO

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Nov. 7, 1919.

Ser. No. 125,438. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JULIUS SCHMID, INCORPORATED, New York, N. Y. Filed Nov. 29, 1919. Under ten-year proviso.

NEAR KID

Particular description of goods.—Capping-Skins for Stoppered Bottles.
Claims use since December, 1893.

Ser. No. 125,456. (CLASS 39. CLOTHING.) FASHION BOOT SHOP, Kansas City, Mo. Filed Dec. 1, 1919.

DeGracia

Particular description of goods.—Leather, Fabric, and Combination Shoes.
Claims use since Oct. 25, 1919.

Ser. No. 125,457. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAMONA M. HOLGUIN, Douglas, Ariz. Filed Dec. 1, 1919.

Ramona Oil

No claim being made to the word "Oil."
Particular description of goods.—A Remedy Against Dandruff and Falling Out of Hair and a Tonic to Stimulate the Growth of Hair.
Claims use since Sept. 15, 1919.

Ser. No. 125,606. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DRUGGISTS CONCENTRATES CO., Pittsburgh, Pa. Filed Dec. 5, 1919.

Ravissant

Particular description of goods.—Toilet Preparations—Namely, Perfumes, Face-Powder, Face-Cream, Toilet Water, Toilet Lotions, Talcum Powders, Hair-Tonic, Massage-Cream, Rouge, and Pomades.
Claims use since Oct. 1, 1918.

Ser. No. 125,665. (CLASS 39. CLOTHING.) MT. TOM HAT MANUFACTURING COMPANY, INC., Easthampton, Mass. Filed Dec. 6, 1919.



The trade-mark consists of a representation of Mount Tom, a mountain located in said Commonwealth, within two concentric circles.
Particular description of goods.—Men's Hats.
Claims use since the 1st day of May, 1919.

Ser. No. 125,708. (CLASS 39. CLOTHING.) LIBERTY FLEXIBLE HEEL COMPANY, Waterloo, Iowa. Filed Dec. 8, 1919.

Liberty

Particular description of goods.—Metal, Composition, and Combination Heels for Boots and Shoes.
Claims use since Sept. 16, 1919.

Ser. No. 125,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. P. MAGGIONI & COMPANY, Savannah, Ga. Filed Dec. 8, 1919.

De Soto

Particular description of goods.—Fresh Oysters Canned or Otherwise Put Up.
Claims use since 1900.

Ser. No. 125,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. P. MAGGIONI & COMPANY, Savannah, Ga. Filed Dec. 8, 1919.

Daufuski

Particular description of goods.—Fresh Oysters, Canned or Otherwise Put Up.
Claims use since 1900.

Ser. No. 125,755. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Dec. 9, 1919.

Red Sun

Particular description of goods.—Cigarettes.
Claims use since 1903.

Ser. No. 125,844. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES L. HEFFNER, Brooklyn, N. Y. Filed Dec. 11, 1919.

IODIPHOS

Particular description of goods.—A Medicinal Preparation Used in the Treatment of Hardening of the Arteries, High Blood-Pressure, Anemia, Glandular Swelling, Neurasthenia, Phthisis, Bronchitis, and Asthma.
Claims use since July 1, 1919.

Ser. No. 125,900. (CLASS 17. TOBACCO PRODUCTS.) MANY, BLANC AND CO., Chicago, Ill. Filed Dec. 12, 1919.

National Club

Particular description of goods.—Cigars.
Claims use since May 29, 1919.

Ser. No. 125,915. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANDARD GAS ENGINE CO., Oakland, Calif. Filed Dec. 12, 1919.

FRISCO STANDARD

Particular description of goods.—Marine and Stationary Gas-Engines and Hoists for Same.
Claims use since Jan. 10, 1901.

Ser. No. 125,974. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Dec. 13, 1919.

HORN



Particular description of goods.—Trunks, Traveling-Bags, Suitcases, and Brief-Cases.
Claims use since Nov. 21, 1919.

Ser. No. 125,988. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WATERPROOFINGS MANUFACTURING CO., Scranton, Pa. Filed Dec. 13, 1919.

Sure-Life

Particular description of goods.—Auto-Top Dye and Dressing in the Nature of a Preservative.
Claims use since Nov. 1, 1919

Ser. No. 126,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH KIGER, Birmingham, Ala. Filed Dec. 15, 1919.

MOTHER NATURE'S

Particular description of goods.—Hair-Tonic.
Claims use since about the 1st day of September, 1918.

Ser. No. 126,051. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE MEBANE BEDDING CO., Mebane, N. C. Filed Dec. 15, 1919.

KINGSDOWN

Particular description of goods.—Felt Mattresses.
Claims use since Mar. 1, 1905.

Ser. No. 126,078. (CLASS 17. TOBACCO PRODUCTS.) UNITED DRUG COMPANY, Boston, Mass. Filed Dec. 15, 1919.



Particular description of goods.—Smoking-Tobacco.
Claims use since July, 1919.

Ser. No. 126,086. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CONNOR OLIVER WILLIAMS, Wichita, Kans. Filed Dec. 15, 1919.



Particular description of goods.—Automobile Tires and Inner Tubes of Rubber.
Claims use since Oct. 1, 1919.

Ser. No. 126,090. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ANDERSEN-MEYER & COMPANY, LTD., New York, N. Y. Filed Dec. 16, 1919.



Particular description of goods.—Bristles and Human Hair.
Claims use since Jan. 15, 1918.

Ser. No. 126,102. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CLARENCE A. CRANE, Cleveland, Ohio. Filed Dec. 16, 1919.

Kum-Bak
IT'S A BOOMERANG

Particular description of goods.—Non-Alcoholic Maltless Cola Beverage Sold as a Soft Drink.
Claims use since Oct. 2, 1919.

Ser. No. 126,243. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE COLUMBIAN HARDWARE COMPANY, Cleveland, Ohio. Filed Dec. 19, 1919.

COLUMBIAN

Particular description of goods.—Heavy Hardware, and Especially Vises, Anvils, Hinges, Pulleys, Springs, Clamps, and the Like.
Claims use since 1862.

Ser. No. 126,270. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. C. BAY COMPANY, Chicago, Ill., and Bluffton, Ind. Filed Dec. 20, 1919.



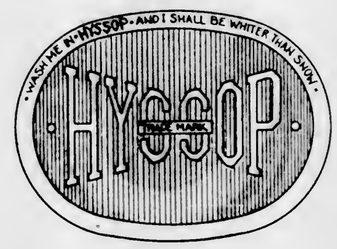
Particular description of goods.—Pianos and Piano-Players.
Claims use since January, 1917.

Ser. No. 126,275. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ESMOND MILLS, Jersey City, N. J. Filed Dec. 20, 1919.

Two in One

Particular description of goods.—Cotton Bed-Blankets.
Claims use since Jan. 1, 1919.

Ser. No. 126,299. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WESTERN SOAP PRODUCTS COMPANY, Modesto, Calif. Filed Dec. 20, 1919.



The drawing being lined to illustrate a red background.
Particular description of goods.—Soap.
Claims use since Nov. 11, 1919.

Ser. No. 126,303. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR H. BRANDON & CO., Toledo, Ohio. Filed Dec. 22, 1919.

HELRAZER

Particular description of goods.—Fishing-Tools for Wells.
Claims use since March, 1919.

Ser. No. 126,441. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AIR WAY COMPANY, Toledo, Ohio. Filed Dec. 26, 1919.

AIR-WAY

Particular description of goods.—Electric Vacuum-Cleaners.
Claims use since Apr. 1, 1919.

Ser. No. 126,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED DRUG COMPANY, Boston, Mass. Filed Dec. 26, 1919.

KLENZO

Particular description of goods.—Preparation Having Deodorant, Antiseptic, and Perspiration-Absorbent Properties.
Claims use since Dec. 1, 1919.

Ser. No. 126,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POLLY B. GARDEN, New York, N. Y. Filed Dec. 27, 1919.



Which includes a portrait of applicant.

Particular description of goods.—Hair-Tonic, Hair-Gloss, and Shampoo Preparation.

Claims use since Dec. 1, 1919.

Ser. No. 126,526. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. KICKBUSCH GROCERY CO., Wausau, Wis. Filed Dec. 27, 1919.

VANITY

Particular description of goods.—Canned Vegetables—Namely, Canned Corn; Canned Fruits—Namely, Canned Cherries; Canned Corn-Syrup for Food Purposes, Canned Molasses, Canned Vegetable Soup, Canned Evaporated Milk, Bird-Seed, Corn-Starch, Strained Honey; Food-Flavoring Extracts—Namely, Vanilla; Olive-Oil, Bottled Olives, Peanut-Butter, Catsup, Peanuts, Shelled Nuts, Allspice, Cocoa, Maple-Syrup for Table Use, Prepared Mustard, Strawberry Jam, Sliced Dried Beef in Glass, Mince-Meat; Canned Fish—Namely, Canned Sardines; Spiced Herring in Kegs, Salt Codfish, Shredded Cocoanut, Yellow Cornmeal, Pearl-Tapioca, Cheese in Brick Form, Rice, Cider Vinegar, Rolled Oats, Macaroni, Tea, and Dried Fruits—Namely, Prunes.

Claims use since May 21, 1918.

Ser. No. 126,571. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Dec. 29, 1919.

GIANT MATCH

Particular description of goods.—Billiard-Cushions.

Claims use since about 1915.

Ser. No. 126,589. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MIDLAND PLAYING CARD CO., Chicago, Ill. Filed Dec. 29, 1919.

UNIVERSAL

Particular description of goods.—Playing-Cards.

Claims use since July 25, 1919.

Ser. No. 126,642. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDREW J. LEONARD, West Branch, Mich. Filed Dec. 30, 1919.

CROW-BAR

Particular description of goods.—Hand-Washing Compounds.

Claims use since June 17, 1918.

Ser. No. 126,679. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EDUCATOR CO., Philadelphia, Pa. Filed Dec. 31, 1919.

CHLORODONE

Particular description of goods.—A Medicinal Treatment for Pyorrhea.

Claims use since about March, 1919.

Ser. No. 126,680. (CLASS 39. CLOTHING.) THE FAIR MAID UNDERGARMENT CO., New York, N. Y. Filed Dec. 31, 1919.



Particular description of goods.—Children's and Misses' Undergarments.

Claims use since Sept. 10, 1919.

Ser. No. 126,682. (CLASS 12. CONSTRUCTION MATERIALS.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Steel Fire-Resisting Roofing and Surface-Roofing—Namely, Slate Roofings, Talc Roofings, Flint Roofings, Asphalt and Crushed-Slate Roofings, and Slate-Surface and Composition Stripped Shingles for Roofing, and Shingles.

Claims use since Jan. 1, 1919.

Ser. No. 126,691. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LICHTENSTEIN & COMPANY, LIMITED, Colne Works, Uxbridge, Middlesex, England. Filed Dec. 31, 1919.

TINTOMAX

Particular description of goods.—Coloring-Matters for Foods and Liquids.

Claims use since the 21st day of December, 1914.

Ser. No. 126,699. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE SAFETY EQUIPMENT COMPANY, Cleveland, Ohio. Filed Dec. 31, 1919.

MENTOR AUTOHORSE

Particular description of goods.—Trestles of the Portable Variety Such as are Used for Work-Supports.

Claims use since Dec. 1, 1919.

Ser. No. 126,724. (CLASS 32. FURNITURE AND UPHOLSTERY.) GRIMWOOD BROS., Evansville, Ind. Filed Jan. 2, 1920.

THE Latona TRADE MARK MADE BY GRIMWOOD BROS. EVANSVILLE IND.

No claim is made to the words "Trade Mark" and "Made by Grimwood Bros., Evansville, Ind.," apart from the mark shown by the drawing.

Particular description of goods.—Phonograph-Cabinets.

Claims use since Dec. 10, 1919.

Ser. No. 126,734. (CLASS 39. CLOTHING.) MADGE EVANS HAT CO., New York, N. Y. Filed Jan. 2, 1920.



Madge Evans

The portrait on the drawing being that of Madge Evans and the name "Madge Evans" being a facsimile signature of the said Madge Evans.

Particular description of goods.—Straw and Cloth Hats for Children, Girls, and Misses.

Claims use since Aug. 25, 1919.

Ser. No. 126,777. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES POETZL, Baltimore, Md. Filed Jan. 3, 1920.



No claim being made to the use of the words "Trade Mark Reg. U. S. Pat. Off."

Particular description of goods.—A Remedy to Promote the Growth of the Hair.

Claims use since Nov. 1, 1919.

Ser. No. 126,778. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PLYMOUTH PHONOGRAPH CO., Plymouth, Wis. Filed Jan. 3, 1920.

The Badger

Particular description of goods.—Phonographs.

Claims use since Nov. 8, 1919.

Ser. No. 126,852. (CLASS 17. TOBACCO PRODUCTS.) DE NOBILI CIGAR CO., INC., Long Island City and New York, N. Y. Filed Jan. 6, 1920.

ROUGH-ROUGH

Particular description of goods.—Cigars.

Claims use since the 20th day of December, 1919.

Ser. No. 126,952. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BOGERT & HOPPER, New York, N. Y. Filed Jan. 9, 1920.

Wizard

Particular description of goods.—Bubble-Blowers.
Claims use since Oct. 1, 1919.

Ser. No. 126,979. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. J. F. TRUE & CO., INC., Auburn, Me. Filed Jan. 9, 1920.

DR. TRUE'S ELIXIR

The words "Dr. True's Elixir."
Particular description of goods.—Vermifuge and Remedies for Indigestion, Biliousness, Headache, Colds, and Diseases of the Stomach and Liver.
Claims use since Jan. 1, 1851.

Ser. No. 127,014. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHAS. H. REED, New York, N. Y. Filed Jan. 10, 1920.

REEDKLOTH

No claim being made to the word "Kloth" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since about May, 1919.

Ser. No. 127,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. C. CHAPA, San Antonio, Tex. Filed Jan. 12, 1920.



A portrait of Eloisita Cisneros.
Particular description of goods.—A Salve to be Used in the Treatment of Colds, Fever, Catarrh, Pneumonia, Rheumatism, Itching, Diseases of the Skin, and Headaches and a Liniment for Use in the Treatment of Rheumatism, Paralysis, Pleurisy, Spasms, Wounds, Bites, Itching, and Sores.
Claims use since the year 1910.

Ser. No. 127,086. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUNTER MFG. & COM. CO., New York, N. Y. Filed Jan. 13, 1920.



No claim being made to the exclusive use of the word "Dril" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since May 17, 1917.

Ser. No. 127,091. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KILBOURNE & CLARK MANUFACTURING CO., Seattle, Wash. Filed Jan. 13, 1920.



No claim being made to the words "Kilbourne & Clark" and the word "Radio" apart from the trade-mark as shown.
Particular description of goods.—Radio Telegraph and Telephone Apparatus.
Claims use since Jan. 1, 1919.

Ser. No. 127,116. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MILLS BROTHERS COMPANY, Cincinnati, Ohio. Filed Jan. 19, 1920.

SWISH

Particular description of goods.—A Powder to be Used as a Washing Preparation.
Claims use since April, 1915.

Ser. No. 127,151. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) RITTER BROS., New York, N. Y. Filed Jan. 14, 1920.

BLUEBIRD

Particular description of goods.—Ladies' Handbags.
Claims use since Jan. 6, 1920.

Ser. No. 127,152. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) RITTER BROS., New York, N. Y. Filed Jan. 10, 1920.



Particular description of goods.—Ladies' Handbags.
Claims use since Jan. 6, 1920.

Ser. No. 127,182. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. I. C. PARSONS, Ripley, W. Va. Filed Jan. 15, 1920.

EXCELLO

Particular description of goods.—Headache, Neuralgia, Neuritis, Rheumatism, La Grippe, and Pleurisy Medicines.
Claims use since on or about the 20th of June, 1910.

Ser. No. 127,234. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY CITY MILLING COMPANY, Bay City, Mich. Filed Jan. 17, 1920.



The lining on the drawing is for shading only and does not indicate color.
Particular description of goods.—Wheat-Flour and Buckwheat-Flour.
Claims use since April, 1919.

Ser. No. 127,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALLIE B. DEADERICK, Ford City, Pa. Filed Jan. 17, 1920.

COLOSSAL

Particular description of goods.—A Remedy for Falling Hair, Dandruff, and Scalp Diseases.
Claims use since May 6, 1919.

Ser. No. 127,242. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EVERIT CHEMICAL CO., New Haven, Conn. Filed Jan. 17, 1920.

FYRO

Particular description of goods.—Fire-Extinguishing Fluid.
Claims use since Jan. 8, 1920.

Ser. No. 127,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FITZGERALD & PERRY, Keota, Iowa. Filed Jan. 17, 1920.

PER-ALD

Particular description of goods.—A Preparation Adapted to be Externally Used for the Treatment of Fistula, Poll-Evil, Quittor or Quittor-Bone, and Wire-Cuts.
Claims use since Dec. 22, 1919.

Ser. No. 127,250. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Jan. 17, 1920.

OBAK



Including a fanciful representation of a man's head.
Particular description of goods.—Cigarettes.
Claims use since about August, 1909.

Ser. No. 127,255. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) NEW YORK BAND INSTR. CO. INC., New York, N. Y. Filed Jan. 17, 1920.

TONEKING

Particular description of goods.—Musical Instruments—viz., Cornets, Trumpets, Alto Horns, Tenor Horns, Baritone Horns, Bass Horns, French Horns, Melliophones, Trombones, Helicon-Horns, Bugles, Saxophones, Clarinets, Banjos, Banjo-Mandolins, Tenor Banjos, Ukuleles, Guitars, Mandolins, Banjo-Ukuleles, Violins, Flutes, Piccolos, Xylophones, Orchestra-Bells, Drums, Drum-Heads, Reeds for Clarinets and Saxophones, Bridges for Stringed Instruments, Cellos, Basses, and Strings for Violins and Similar Instruments.
Claims use since June 14, 1919.

Ser. No. 127,265. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY, New York, N. Y. Filed Jan. 17, 1920.

PETROHOL

Particular description of goods.—Isopropyl Alcohol.
Claims use since on or about the 22d day of December, 1919.

Ser. No. 127,286. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL B. IMRIE, Brooklyn, N. Y. Filed Jan. 19, 1920.

Sudo

Particular description of goods.—Deodorants and Preparations for the Relief of Excessive Perspiration.
Claims use since the year 1909.

Ser. No. 127,324. (CLASS 37. PAPER AND STATIONERY.) MOORE & THOMPSON PAPER COMPANY, Bellows Falls, Vt. Filed Jan. 19, 1920.



The section-lines on the drawing are for the purpose of shading only.
Particular description of goods.—Wrapping-Paper.
Claims use since Nov. 24, 1919.

Ser. No. 127,337. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SINCLAIR MANUFACTURING COMPANY, Toledo, Ohio. Filed Jan. 19, 1920.

KINGPIN

Particular description of goods.—Powdered Lye.
Claims use since Oct. 11, 1915.

Ser. No. 127,338. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SINCLAIR MANUFACTURING COMPANY, Toledo, Ohio. Filed Jan. 19, 1920.



Particular description of goods.—Powdered Lye.
Claims use since Oct. 9, 1917.

Ser. No. 127,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WRIGHT & LAWRENCE, Chicago, Ill. Filed Jan. 19, 1920.

IODI-LAC

Particular description of goods.—A Preparation for the Treatment of Psoriasis, Scrofula, Asthma, Arteriosclerosis, Goiter, Chronic Rheumatism, Chronic Bronchitis, and Syphilis.
Claims use since about Sept. 20, 1919.

Ser. No. 127,351. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD G. BINZ, Los Angeles, Calif. Filed Jan. 20, 1920.

BRONCHI-LYPTUS

Particular description of goods.—A Medicinal Treatment for Coughs, Bronchitis, Croup, Asthmatic Cough, Whooping-Cough, and Sore Throat.
Claims use since Sept. 1, 1910.

Ser. No. 127,355. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH H. CALISHER, New York, N. Y. Filed Jan. 20, 1920.

BOUQUET DES FLEURS

Particular description of goods.—Perfumes and Toilet Waters, Face-Powders, Sachet-Powder, Talcum Powder, Cold-Creams, Compact Rouge, Compact Powder, Smelling-Salts, Bath-Salts, Eyebrow-Pencils, and Lip-Sticks.
Claims use since Jan. 10, 1914.

Ser. No. 127,363. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GARDNER MOTOR CO., St. Louis, Mo. Filed Jan. 20, 1920.

GARDNER

Consisting of the word "Gardner" displayed in white on a red field having an irregular border of white.
Particular description of goods.—Automobiles.
Claims use since about Jan. 10, 1920.

Ser. No. 127,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GARY LABORATORIES COMPANY, Gary, Ind. Filed Jan. 20, 1920.

Futol

Particular description of goods.—A Foot-Lotion.
Claims use since Nov. 1, 1919.

Ser. No. 127,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB L. GREENBAUM, Toledo, Ohio. Filed Jan. 20, 1920.

REWARD POP-LAX

Particular description of goods.—Physic for Children.
Claims use since April, 1919.

Ser. No. 127,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUNT CHEMICAL COMPANY, Jacksonville, Fla. Filed Jan. 20, 1920.

TREXO

Particular description of goods.—Stainless Croup and Pneumonia Salve.
Claims use since Dec. 13, 1919.

Ser. No. 127,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUNT CHEMICAL COMPANY, Jacksonville, Fla. Filed Jan. 20, 1920.



Particular description of goods.—Cold, Croup, and Pneumonia Salve.
Claims use since Dec. 13, 1919.

Ser. No. 127,428. (CLASS 39. CLOTHING.) FRITZ-RICHARDS COMPANY, Lynchburg, Va. Filed Jan. 21, 1920.



No claim being made for the exclusive use of the words "Quality," "Style," and "Service" apart from the mark shown.
Particular description of goods. Leather Shoes.
Claims use since Dec. 22, 1919.

Ser. No. 127,429. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GERSTENDORFER BROS., New York, N. Y. Filed Jan. 21, 1920.



Particular description of goods.—Aluminum Enamel Paints, Bronze Enamel Paints, Gold Enamel Paints, Aluminum Powders for Use in Paints, Bronze Powders for Use in Paints, Gold Powders for Use in Paints, Enamel Paints, Wood-Stains, Varnishes, Carriage-Colors; Dry, Ready-Mixed and Paste Paints; Furniture-Polish.

Ser. No. 127,440. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD T. MELHUISH, Amityville, N. Y. Filed Jan. 21, 1920.

I-O

Particular description of goods.—An Antiseptic and Healing Ointment for the Treatment of Rash, Eruptions and Skin Infections, Cuts, Wounds, Abrasions, Burns, Insect-Stings, Chilblains, Sprains, Bruises, Rheumatism, and Similar Affections.
Claims use since on or about Dec. 19, 1919.

Ser. No. 127,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLUAL CHEMICAL CO., New York, N. Y. Filed Jan. 22, 1920.



Particular description of goods.—Laundry Bluing in Capsule Form.
Claims use since August, 1918.

Ser. No. 127,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. O. CHEMICAL CO., Ocilla, Ga. Filed Jan. 22, 1920.

FLY FLU

Particular description of goods.—Insecticide.
Claims use since May 1, 1919.

Ser. No. 127,500. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE DAIRY PRODUCTS COMPANY, Dayton, Ohio. Filed Jan. 23, 1920.

Gibson's MILK-FIZ

No claim being made to the phrase "Milk-Fiz" apart from the mark shown on the drawing.
Particular description of goods.—A Non-Alcoholic Non-Cereal Maltless Beverage Sold at Soda-Fountains as a Soft Drink.
Claims use since Dec. 15, 1919.

Ser. No. 127,565. (CLASS 39. CLOTHING.) THE TOWNSEND GRACE COMPANY, Baltimore, Md. Filed Jan. 24, 1920.



No claim is made to the expressions "Highest Grade" and "Made by" and to the expressions "Baltimore, Md., U. S. A." apart from the mark shown on the drawing.
Particular description of goods.—Straw Hats and Caps for Men, Women, and Children.
Claims use since July 1, 1919.

Ser. No. 127,573. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE AUTOMATIC APPLIANCE COMPANY, St. Louis, Mo. Filed Jan. 26, 1920.

TIMEOGRAPH

Particular description of goods.—Machines for Timing and Controlling the Period of Operation of Laundry-Machines, and Signaling the End of Operation Thereof.
Claims use since about Jan. 1, 1917.

Ser. No. 127,574. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE AUTOMATIC APPLIANCE COMPANY, St. Louis, Mo. Filed Jan. 26, 1920.

ANNOUNCOMETER

Particular description of goods.—Machines for Timing the Operation and Signaling End of Operation of Laundry-Machines.
Claims use since about Jan. 1, 1916.

Ser. No. 127,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. E. BARD, Sedalia, Mo. Filed Jan. 26, 1920.

COLDICURE

Consisting of the word "Coldicure."
Particular description of goods.—A Medicine for the Treatment of Colds, Coughs, and other Throat and Lung Diseases.
Claims use since Oct. 1, 1889.

Ser. No. 127,577. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. W. CARNRICK CO., New York, N. Y. Filed Jan. 26, 1920.

FER-O-VAR-IN

Particular description of goods.—A Medicinal Tablet for the Treatment of Anemia and Chlorosis.
Claims use since Jan. 16, 1920.

Ser. No. 127,597. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE LOCKE INSULATOR MANUFACTURING COMPANY, Victor, N. Y. Filed Jan. 26, 1920.



No claim is made to the representation of an insulator apart from the mark shown in the drawing.
Particular description of goods.—Insulators for High-Tension Insulation.
Claims use since June 10, 1908.

Ser. No. 127,604. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RACINE UNIVERSAL MOTOR CO., Chicago, Ill. Filed Jan. 26, 1920.

UNIVERSAL

Particular description of goods.—Electric Hair-Cutters.
Claims use since Apr. 1, 1919.

Ser. No. 127,672. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. & C. FISCHER, New York, N. Y. Filed Jan. 27, 1920. Under ten-year proviso.

Fischer

Particular description of goods.—Pianofortes, Grand and Upright Pianos, and Grand and Upright Player-Pianos.
Claims use since December, 1900.

Ser. No. 127,682. (CLASS 39. CLOTHING.) FEINBERG & FEINBERG, New York, N. Y. Filed Jan. 28, 1920.

Effanoff

Particular description of goods.—Cravats and Neckties.
Claims use since about Jan. 1, 1917.

Ser. No. 127,739. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SAMUEL W. RAPP, Jr., Morton, Ill. Filed Jan. 29, 1920.



Which is wholly fanciful with respect to human figure, the lining of the background being for the purpose of indicating color (red).
Particular description of goods.—A Compound in Liquid or Paste Form for Cleaning the Hands, Fabrics, Glassware, Porcelain, Metal Ware, Painted and Varnished Surfaces, Woodwork, and the Like; Hand-Soap, Laundry Chips, Cleanser, Metal-Polish, and Sweeping Compound.
Claims use since about the 15th day of December, 1919.

Ser. No. 127,821. (CLASS 17. TOBACCO PRODUCTS.) MELIKIAN CIGARETTES, INC., Wilmington, Del., and Trenton, N. J. Filed Jan. 31, 1920.

LION



Particular description of goods.—Cigarettes.
Claims use since the 10th day of December, 1919.

Ser. No. 127,879. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WEST VIRGINIA MALLEABLE IRON CO., Point Pleasant, W. Va. Filed Feb. 2, 1920.



Particular description of goods.—Malleable Iron Castings.
Claims use since August, 1905.

Ser. No. 127,992. (CLASS 39. CLOTHING.) S. BACHARACH AND COMPANY, Philadelphia, Pa. Filed Feb. 5, 1920.



The lining on the drawing is for shading and not to represent color.

Particular description of goods.—Men's and Young Men's Suits and Overcoats.

Claims use since about Oct. 1, 1919.

Ser. No. 128,080. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) C. G. CONN, LTD., Elkhart, Ind. Filed Feb. 7, 1920.

LITTLE SCOUT

Particular description of goods.—Wind Musical Instruments of the Bugle and Trumpet Type.

Claims use since May 15, 1918.

Ser. No. 128,091. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GENERAL MANUFACTURING CORPORATION, Milwaukee, Wis. Filed Feb. 7, 1920.

Adelina Patti

Particular description of goods.—Phonographs.

Claims use since Nov. 29, 1919.

Ser. No. 128,141. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE E. CALHOUN, Amsterdam, N. Y. Filed Feb. 9, 1920.



No claim is made to the words "No Squeak" and "Safe In Grip" apart from the mark shown in the drawing.

Particular description of goods.—Dressing for Brake-Linings and the Like.

Claims use since about Dec. 20, 1919.

Ser. No. 128,151. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHARLES E. GAVIN, Milwaukee, Wis. Filed Feb. 9, 1920.

BLACK TO WHITE

Particular description of goods.—Liquid Soap.

Claims use since Apr. 9, 1919.

Ser. No. 128,192. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CANDY MANUFACTURING CO., Selma, Ala. Filed Feb. 10, 1920.

WONDERFUL

Particular description of goods.—Candy.

Claims use since January, 1910.

Ser. No. 128,226. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Cleaning and Polishing Materials for Jewelry and Precious-Metal Ware.

Claims use since 1868.

Ser. No. 128,232. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TIFFANY AND COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Electric Lamps Candelabra and Candlesticks, Electroliers, and Electric Pocket-Lights.

Claims use since 1893.

Ser. No. 128,233. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Electric Lamps, Candelabra and Candlesticks, Electroliers, and Electric Pocket-Lights.

Claims use since 1893.

Ser. No. 128,328. (CLASS 32. FURNITURE AND UPHOLSTERY.) SALISBURY & SATTERLEE CO., Minneapolis, Minn. Filed Feb. 12, 1920.

Slumberfelt

Particular description of goods.—Mattresses.

Claims use since the 15th day of October, 1915.

Ser. No. 128,408. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE RUSS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 14, 1920.

"BILT-RITE"

Particular description of goods.—Soda-Fountains and Soda-Water Carbonators.

Claims use since Jan. 1, 1913.

Ser. No. 128,416. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 14, 1920.

CHAMPION

Particular description of goods.—Bread.

Claims use since Oct. 16, 1919.

Ser. No. 128,424. (CLASS 32. FURNITURE AND UPHOLSTERY.) LOUIS G. DIBELE, Shortsville, N. Y. Filed Feb. 16, 1920.

KID NAPPER

Particular description of goods.—Bassinettes.

Claims use since on or about Dec. 1, 1919.

Ser. No. 128,428. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ESSEX RUBBER COMPANY, Trenton, N. J. Filed Feb. 16, 1920.

ERCO

Particular description of goods.—Tank-Balls.

Claims use since about November, 1919.

Ser. No. 128,442. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) J. JACKSON, LIMITED, Bramley, England. Filed Feb. 16, 1920.

DAY DAWN

Particular description of goods.—Taps and Valves of Metal for General Use with Fluids.

Claims use since Oct. 23, 1919.

Ser. No. 128,448. (CLASS 39. CLOTHING.) SAMUEL LONDON & CO., INC., New York, N. Y. Filed Feb. 16, 1920.

SELCO

Particular description of goods.—Dress, Negligée, and Work Shirts.

Claims use since Mar. 1, 1918.

Ser. No. 128,512. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ANDREW A. MANGHISI, West Hoboken, N. J. Filed Feb. 17, 1920.

Rialto

The word "Rialto."

Particular description of goods.—Phonographs.

Claims use since about Sept. 15, 1919.

Ser. No. 128,517. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ALFRED PAPILLON, Jennings, La. Filed Feb. 17, 1920.



Particular description of goods.—Crude-Oil Burners for Stoves and Furnaces.

Claims use since on or about Dec. 1, 1919.

Ser. No. 128,585. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) APOLLO MAGNETO CORPORATION, Dover, Del., and Brooklyn, N. Y. Filed Feb. 19, 1920.

APOLLO

Particular description of goods.—Ignition-Magnetos and Parts Thereof and Electrical Condensers.

Claims use since Dec. 17, 1918.

Ser. No. 128,614. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NOVELTY INCANDESCENT LAMP COMPANY, Emporium, Pa. Filed Feb. 19, 1920.

ISAVER

Particular description of goods.—Incandescent Electric Lamps.
Claims use since July 1, 1919.

Ser. No. 128,623. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TREEFILM COMPANY, INC., New York, N. Y. Filed Feb. 19, 1920.



No claim is made to the exclusive use of the word "Treefilm" apart from the mark shown in the drawing.
Particular description of goods.—Cinematographic Films.
Claims use since June, 1919.

Ser. No. 128,642. (CLASS 11. INKS AND INKING MATERIALS.) AMERICAN INK COMPANY, Seattle, Wash. Filed Feb. 20, 1920.

AMIGO INK

"Amico Ink." The word "Ink" as appearing upon the drawing is disclaimed apart from the mark as shown.
Particular description of goods.—Writing-Inks.
Claims use since Jan. 15, 1920.

Ser. No. 128,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY MILLS COMPANY, Columbus, Ga. Filed Feb. 20, 1920.



The mark consists of the word "Veribest," with the outline in blue and the body of the letters in red, the whole word being impressed upon a yellow diagonally arranged panel. No claim is made to the word "Veribest" except in the distinctive manner shown or apart from the mark as a whole. By this disclaimer applicant waives no common law right.
Particular description of goods.—Cornmeal.
Claims use since June 1, 1912.

Ser. No. 128,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY MILLS COMPANY, Columbus, Ga. Filed Feb. 20, 1920.

AUTO-USE

Particular description of goods.—Wheat-Flour and Self-Rising Wheat-Flour.
Claims use since Jan. 1, 1910.

Ser. No. 128,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY MILLS COMPANY, Columbus, Ga. Filed Feb. 20, 1920.

FLORA DORA

Particular description of goods.—Wheat-Flour and Self-Rising Wheat-Flour.
Claims use since Jan. 1, 1910.

Ser. No. 128,669. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) THE DECO CO., New York, N. Y. Filed Feb. 20, 1920.

DECO

Particular description of goods.—Finger-Rings, Bracelets, Necklaces, Cuff-Buttons, Tie-Pins, Tie-Clips, Watch-Chains, Shoe-Buckles, and Combs and Barrettes Studded with Rhinestones.
Claims use since Sept. 1, 1910.

Ser. No. 128,676. (CLASS 39. CLOTHING.) FULFASHION HOSIERY COMPANY, New York, N. Y. Filed Feb. 20, 1920.

"LADY LUXURY"

Particular description of goods.—Hosiery.
Claims use since September, 1913.

Ser. No. 128,677. (CLASS 39. CLOTHING.) FULFASHION HOSIERY COMPANY, New York, N. Y. Filed Feb. 20, 1920.

"Lordleigh"

Particular description of goods.—Hosiery.
Claims use since September, 1913.

Ser. No. 128,685. (CLASS 39. CLOTHING.) HOPE KNITTING COMPANY, Cohoes, N. Y. Filed Feb. 20, 1920.



Particular description of goods.—Underwear for Men and Women—to wit, Shirts, Drawers, and Union-Suits, Vests, and Pants.
Claims use since Dec. 21, 1915.

Ser. No. 128,698. (CLASS 39. CLOTHING.) PREMIER MANUFACTURING CO., Lexington, Ky. Filed Feb. 20, 1920.



Particular description of goods.—Athletic Union-Suits.
Claims use since 1918.

Ser. No. 128,706. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 20, 1920.



Particular description of goods.—Women's Hats.
Claims use since Dec. 29, 1919.

Ser. No. 128,716. (CLASS 39. CLOTHING.) WATTS, RITTER & COMPANY, Huntington, W. Va., and New York, N. Y. Filed Feb. 20, 1920.



Particular description of goods.—Underwear for Men and Women—to wit, Union-Suits for Men and Women.
Claims use since Sept. 11, 1919.

Ser. No. 128,723. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BIFLEX PRODUCTS COMPANY, Waukegan, Ill. Filed Feb. 21, 1920.

BIFLEX

Particular description of goods.—Automobile-Bumpers and Attaching-Brackets.
Claims use since June 7, 1919.

Ser. No. 128,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DULUTH CREAMERY & PRODUCE COMPANY, Duluth, Minn. Filed Feb. 21, 1920.



No claim is made to the words "Purity Brand" apart from the fanciful form of the mark shown, the lines therein being used merely for shading.
Particular description of goods.—Ice-Cream and Butter.
Claims use since Feb. 1, 1919.

Ser. No. 128,744. (CLASS 39. CLOTHING.) RITZWOLLER & CO., INC., New York, N. Y. Filed Feb. 21, 1920.

HAREM SCAREM

Particular description of goods.—Children's Dresses.
Claims use since Jan. 1, 1920.

Ser. No. 128,868. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Feb. 24, 1920.



Particular description of goods.—Safety-Razor Blades.
Claims use since Nov. 12, 1919.

Ser. No. 128,875. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BEACON PHONOGRAPH COMPANY, Boston, Mass. Filed Feb. 25, 1920.

BEACON

Particular description of goods.—Phonographs, Records, and Needles.
Claims use since Nov. 18, 1919.

Ser. No. 128,876. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Feb. 25, 1920.

ZOOKIE

Particular description of goods.—Toy Building-Blocks.
Claims use since Feb. 1, 1920.

Ser. No. 128,889. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NELS OLAF HEDMAN, Leadville, Colo. Filed Feb. 25, 1920.



No claim being made to the words "Trade-Mark" shown on the drawing.
Particular description of goods.—Saw-Sets.
Claims use since on or about Jan. 1, 1920.

Ser. No. 128,999. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. L. BRUBAKER & BROS., Millersburg, Pa. Filed Feb. 28, 1920.

WIZARD

Particular description of goods.—Machines for Boring Automobile and Locomotive Cylinders.
Claims use since on or about the 15th day of February, 1920.

Ser. No. 129,014. (CLASS 37. PAPER AND STATIONERY.) HENRY KAYSER & FILS, INC., New York, N. Y. Filed Feb. 28, 1920.



Particular description of goods.—Filter-Paper.
Claims use since April, 1919.

Ser. No. 129,023. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 28, 1920.



Particular description of goods.—Hats for Children and Misses.
Claims use since Dec. 29, 1919.

Ser. No. 129,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. O. ANDERSEN & Co., Portland, Oreg. Filed Mar. 1, 1920.

ANCO
BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since Dec. 20, 1919.

Ser. No. 129,038. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARGONNE PRODUCTS CO., Los Angeles, Calif. Filed Mar. 1, 1920.



Particular description of goods.—Table-Syrups.
Claims use since Feb. 1, 1919.

Ser. No. 129,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANDY PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 1, 1920.



Particular description of goods.—Confectionery—Namely, Chocolate Candies, Chocolate Specialties, and Solid Chocolate Candy.
Claims use since Nov. 1, 1919.

Ser. No. 129,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PATENT CEREALS COMPANY, Geneva and New York, N. Y. Filed Mar. 1, 1920.

MONGETTE

Particular description of goods.—Corn-Flour.
Claims use since Dec. 10, 1919.

Ser. No. 129,079. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAXTON & GALLAGHER CO., Omaha, Nebr. Filed Mar. 1, 1920.



Particular description of goods.—Canned Fish—Namely, Canned Sardines.
Claims use since Jan. 15, 1920.

Ser. No. 129,081. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUCIUS POWERS, Fresno, Calif. Filed Mar. 1, 1920.

TIVY BRAND
MOUNT

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Citrus Fruit—Namely, Oranges, and Fresh Fruits—Namely, Grapes.
Claims use since August, 1912.

Ser. No. 129,086. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Mar. 1, 1920.

BI-A-CAN

Particular description of goods.—Canned Fruits—Namely, Canned Cherries and Canned Apricots, Canned Peaches and Canned Pears, and Canned Vegetables—Namely, Canned Tomatoes.
Claims use since July 19, 1919.

Ser. No. 129,087. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Mar. 1, 1920.

HEART'S DELIGHT

Particular description of goods.—Canned Fruits—Namely, Canned Cherries, Canned Plums, Canned Peaches, Canned Apricots, and Canned Pears; also Canned Vegetables—Namely, Canned Tomatoes.
Claims use since July 19, 1919.

Ser. No. 129,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Mar. 1, 1920.

R-C

Particular description of goods.—Canned Fruits—Namely, Canned Cherries, Canned Plums, Canned Peaches, Canned Apricots, and Canned Pears, and Canned Vegetables—Namely, Canned Tomatoes.
Claims use since July 15, 1919.

Ser. No. 129,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Mar. 1, 1920.



Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July 1, 1919.

Ser. No. 129,116. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE WILSON, Dinuba, Calif. Filed Mar. 1, 1920.



Particular description of goods.—Fresh Fruits—Namely, Grapes.
Claims use since July, 1917.

Ser. No. 129,124. (CLASS 39. CLOTHING.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Mar. 2, 1920.



Particular description of goods.—Kimonos.
Claims use since Feb. 19, 1920.

Ser. No. 129,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & SANBORN, Boston, Mass. Filed Mar. 2, 1920. Under ten-year proviso.

NASSAC

Particular description of goods.—Tea.
Claims use since Feb. 1, 1890.

Ser. No. 129,127. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & SANBORN, Boston, Mass. Filed Mar. 2, 1920. Under ten-year proviso.



Particular description of goods.—Tea.
Claims use since Feb. 1, 1890.

Ser. No. 129,145. (CLASS 39. CLOTHING.) JENNINGS LACE WORKS CORP., Brooklyn, N. Y. Filed Mar. 2, 1920.



Consisting of the representation of an open book and the words "The Story of Page Silks," no claim being made to the exclusive use of the word "Silks" apart from the mark as shown in the drawing.

Particular description of goods.—Sweaters, Underwear in One and Two Piece Garments, Petticoats, Silk Gloves, Lace Mitts, Silk Hosiery and Socks; Lisle, Cotton, Wood-Fiber Hosiery and Socks; Embroidered All-Overs in One-Piece Garments, and Neckwear—viz., Silk-Lace Scarfs.

Claims use since Nov. 3, 1919.

Ser. No. 129,157. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VAN CAMP HARDWARE & IRON COMPANY, Indianapolis, Ind. Filed Mar. 2, 1920.

AUTO-NU

Particular description of goods.—A Liquid Preparation for Surface Finish in the Nature of a Varnish.

Claims use since Jan. 1, 1918.

Ser. No. 129,168. (CLASS 39. CLOTHING.) BROOKLYN SHIELD & RUBBER COMPANY, Brooklyn, N. Y. Filed Mar. 3, 1920.

Kumfit

Consisting of the word "Kumfit."

Particular description of goods.—Aprons.

Claims use since Feb. 1, 1920.

Ser. No. 129,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIXIE FRUIT PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 3, 1920.

FRUITSTILL

Particular description of goods.—Vinegar.

The trade-mark has been continuously used in the business of said company since July, 1919, and was first used for shipment in interstate commerce in December, 1919.

Ser. No. 129,196. (CLASS 46. (FOODS AND INGREDIENTS OF FOODS.) TOWLE SONS, INC., San Francisco, Calif. Filed Mar. 3, 1920.

SWEET 16

Particular description of goods.—Sauce.

Claims use since Jan. 27, 1920.

Ser. No. 129,294. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. W. THACKER, Springfield, Ohio. Filed Mar. 5, 1920.

TWIN



Particular description of goods.—Coffee.

Claims use since Feb. 14, 1920.

Ser. No. 129,325. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE AND KNIFE COMPANY, Pittsburgh, Pa. Filed Mar. 6, 1920.

BITREX

Particular description of goods.—Heat-Treated Forgings.

Claims use since Feb. 23, 1920.

Ser. No. 129,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTMORELAND CANDY CO., INC., Richmond, Va. Filed Mar. 6, 1920.

SISTER SUE

Particular description of goods.—Candy.

Claims use since May, 1919.

Ser. No. 129,440. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER BARNA, New York, N. Y. Filed Mar. 9, 1920.

PRINCESS

Particular description of goods.—Canned Mackerel.

Claims use since Jan. 18, 1920.

Ser. No. 129,450. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. C. DARNOLD, Belpre, Ohio. Filed Mar. 9, 1920.

CUTIES

Particular description of goods.—Candy.

Claims use since Dec. 10, 1919.

Ser. No. 129,497. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE CANNING COMPANY, Eastport, Me. Filed Mar. 10, 1920.

NOMAD

Particular description of goods.—Canned Sardines.

Claims use since July 11, 1919.

Ser. No. 129,498. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE CANNING COMPANY, Eastport, Me. Filed Mar. 10, 1920.

KEENSITE

Particular description of goods.—Canned Sardines.

Claims use since July 11, 1919.

Ser. No. 129,500. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE CANNING COMPANY, Eastport, Me. Filed Mar. 10, 1920.

WALA

Particular description of goods.—Canned Sardines.

Claims use since July 11, 1919.

Ser. No. 129,515. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE STRONG, CARLISLE & HAMMOND COMPANY, Cleveland, Ohio. Filed Mar 10, 1920.

4/S

Particular description of goods.—Annealing, Tempering, Forging, Case-Hardening, and Melting Metallurgical Furnaces.

Claims use since Feb. 18, 1920.

Ser. No. 129,522. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WOOLSON SPICE COMPANY, Toledo, Ohio. Filed Mar. 10, 1920.

SANTOSWEET

Particular description of goods.—Coffee.

Claims use since Feb. 14, 1920.

Ser. No. 129,544. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FREE SEWING MACHINE COMPANY, Rockford, Ill. Filed Mar. 11, 1920.

The LARK

Particular description of goods.—Sewing-Machines.

Claims use since Jan. 19, 1920.

Ser. No. 129,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HENDLER CREAMERY COMPANY, Baltimore, Md. Filed Mar. 11, 1920.

Fruitkist

Particular description of goods.—Ice-Cream, Frozen Custard, and Ices.

Claims use since Feb. 10, 1920.

Ser. No. 129,565. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MILLS BROTHERS COMPANY, Cincinnati, Ohio. Filed Mar. 11, 1920.

JIFFYKAKE

The lining shown on the drawing is for shading purposes only.

Particular description of goods.—Prepared Cake-Flour.

Claims use since Feb. 28, 1920.

Ser. No. 129,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

SAMSON

Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)

Claims use since about 1913.

Ser. No. 129,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1912.

Ser. No. 129,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

NORSE LAKE

Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1917.

Ser. No. 129,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

NORSE AXE

Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1917.

Ser. No. 129,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMINE COMPANY, INC., of Dobbs Ferry and New York, N. Y. Filed Mar. 16, 1920.

PALCO

Particular description of goods.—Oleomargarin.
Claims use since Feb. 19, 1920.

Ser. No. 129,852. (CLASS 43. THREAD AND YARN.) C. R. MEISSNER CO. INC., New York, N. Y. Filed Mar. 17, 1920.



Particular description of goods.—Embroidery-Wool, Wool Threads, and Threads Made of Linen, Cotton, Metal, or Silk, Either Artificial or Fiber.
Claims use since Feb. 28, 1920.

Ser. No. 129,917. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed Mar. 18, 1920.

Cap Stone

Particular description of goods.—Wheat-Flour.
Claims use since about Apr. 28, 1875.

Ser. No. 129,918. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) EDGAR T. WARD'S SONS CO., Boston, Mass. Filed Mar. 18, 1920.

TEENAX

Particular description of goods.—Tool-Steel.
Claims use since Feb. 1, 1919.

Ser. No. 129,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WONDER-NUT FOOD PRODUCTS COMPANY, Jefferson, Wis. Filed Mar. 19, 1920.

WONDER-NUT

Particular description of goods.—Oleomargarin.
Claims use since Feb. 21, 1920.

Ser. No. 129,960. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WONDER-NUT FOOD PRODUCTS COMPANY, Jefferson, Wis. Filed Mar. 19, 1920.



No claim being made herein for the words "Wonder-Nut Oleomargarine."
Particular description of goods.—Oleomargarin.
Claims use since Feb. 21, 1920.

Ser. No. 129,961. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WONDER-NUT FOOD PRODUCTS COMPANY, Jefferson, Wis. Filed Mar. 19, 1920.

IT'S WONDERFUL

Particular description of goods.—Oleomargarin.
Claims use since Feb. 21, 1920.

Ser. No. 129,971. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa. Filed Mar. 20, 1920.

DUPLEX

Particular description of goods.—Steel Bars, Rods, Billets, Blooms, Sheets, Plates, Slabs, Strips, Blocks, and Forgings.
Claims use since November, 1910.

Ser. No. 129,986. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POSTUM CEREAL COMPANY, INC., Wilmington, Del., and Battle Creek, Mich. Filed Mar. 20, 1920.



Particular description of goods.—Corn-Flour, Hominy, Corn-Grits, Cornmeal, and Cream-Meal.
Claims use since Sept. 14, 1918, on cornmeal and cream-meal; Sept. 24, 1918, on corn-flour; Oct. 18, 1918, on corn-grits, and Nov. 5, 1918, on hominy.

Ser. No. 130,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ATCHISON MILLS CORPORATION, Atchison, Kans. Filed Mar. 22, 1920.

TRIBUNE



Particular description of goods.—Wheat-Flour.
Claims use since the 15th day of October, 1919.

Ser. No. 130,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTERFIELD BAKING COMPANY, Indianapolis, Ind. Filed Mar. 22, 1920.

ALPHABETTERS

Particular description of goods.—Doughnuts and Cookies.
Claims use since Jan. 26, 1920.

Ser. No. 130,083. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE BRAY PICTURES CORPORATION, New York, N. Y. Filed Mar. 23, 1920.

BRAY STUDIOS INC.

Particular description of goods.—Moving-Picture Films.
Claims use since January, 1916.

Ser. No. 130,121. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE SANDS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 24, 1920.

SANDS

Particular description of goods.—Gas, Gasolene, and Kerosene Water-Heaters, Automatic Instantaneous Water-Heaters, and Heating-Sections.
Claims use since the year 1913.

Ser. No. 130,154. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE BALDWIN COMPANY, Cincinnati, Ohio. Filed Mar. 25, 1920.

MEDALLION

Particular description of goods.—Pianos, Player-Pianos, and Piano-Players.
Claims use since Jan. 14, 1920.

Ser. No. 130,229. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LOUISIANA MOTOR CAR COMPANY, INC., Shreveport, La. Filed Mar. 26, 1920.

BOUR-DAVIS

Particular description of goods.—Automobiles.
Claims use since about October, 1916.

Ser. No. 130,468. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GAMBRILL GRAIN PRODUCTS COMPANY, Baltimore, Md. Filed Apr. 1, 1920.

GAMMALT

Particular description of goods.—Barley Malt-Flour.
Claims use since Mar. 1, 1920.

Ser. No. 130,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ODELSA MFG. CO., Oklahoma, Okla. Filed Apr. 2, 1920.

KING APPETITE



Particular description of goods.—Coffees, Teas, Spices, Flavoring Extracts for Foods, Breakfast Cereals, Canned Vegetables, Canned Fish, Pancake-Flour, Vinegar, Pickles, Peanut-Butter, Rice, Sugar, and Catsup.
Claims use since January, 1917.

Ser. No. 130,692. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Apr. 5, 1920.

Charlestock

Particular description of goods.—Stock Feed.
Claims use since June, 1914.

Ser. No. 130,695. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Apr. 5, 1920.

PARAGON

Particular description of goods.—Dairy Feed.
Claims use since the fall of 1918.

Ser. No. 130,864. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN-CROSBY COMPANY, Minneapolis, Minn. Filed Apr. 8, 1920. Under ten-year proviso.

WASHBURN'S Superlative

Particular description of goods.—Wheat-Flour.
Claims use since September, 1876.

Ser. No. 130,865. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN-CROSBY COMPANY, Minneapolis, Minn. Filed Apr. 8, 1920. Under ten-year proviso.

WASHBURN'S No. 1

Particular description of goods.—Wheat-Flour.
Claims use since September, 1879.

Ser. No. 130,866. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN-CROSBY COMPANY, Minneapolis, Minn. Filed Apr. 8, 1920. Under ten-year proviso.

Washburn's Extra

Particular description of goods.—Wheat-Flour.
Claims use since September, 1879.

Ser. No. 130,868. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN-CROSBY COMPANY, Minneapolis, Minn. Filed Apr. 8, 1920.

IRON DUKE

Particular description of goods.—Wheat-Flour.
Claims use since January, 1881.

TRADE-MARK REGISTRATIONS GRANTED

MAY 11, 1920.

131,277. HAIR-TONICS AND HAIR-STRAIGHTENERS. EVA ADAMS, Sparta, Ill.
Filed September 30, 1919. Serial No. 123,273. PUBLISHED JANUARY 27, 1920.

131,278. STEAM-ENGINE REVERSE-GEAR. AMERICAN LOCOMOTIVE COMPANY, Schenectady and New York, N. Y.
Filed November 19, 1919. Serial No. 125,068. PUBLISHED FEBRUARY 24, 1920.

131,279. CHOCOLATES. D. AUERBACH & SONS, New York, N. Y.
Filed January 2, 1920. Serial No. 126,709. PUBLISHED MARCH 2, 1920.

131,280. CORN MEDICINE AND FOOT-POWDER. BAUER CHEMICAL CO. INC., New Orleans, La.
Filed October 18, 1919. Serial No. 123,919. PUBLISHED FEBRUARY 24, 1920.

131,281. COMBINATION OF HERBS FOR USE IN THE TREATMENT OF CERTAIN NAMED DISEASES. EDWARD BEALL, Los Angeles, Calif.
Filed October 2, 1919. Serial No. 123,333. PUBLISHED JANUARY 27, 1920.

131,282. MILKING-MACHINES. BEAVER MACHINE & TOOL CO. INC., Newark, N. J.
Filed October 8, 1919. Serial No. 123,532. PUBLISHED FEBRUARY 24, 1920.

131,283. SALTED PEANUTS AND TOPPING FOR SUNDAES, PARFAITS, HOT CHOCOLATE, AND OTHER BEVERAGES. PAUL F. BEICH COMPANY, Bloomington, Ill.
Filed November 8, 1919. Serial No. 124,678. PUBLISHED MARCH 2, 1920.

131,284. SILKS IN THE PIECE AND SATINS IN THE PIECE. BELDING BROS. & CO., New York, N. Y.
Filed September 12, 1919. Serial No. 122,583. PUBLISHED MARCH 9, 1920.

131,285. NON-INTOXICATING MALT CEREAL BEVERAGE CONTAINING LESS THAN ONE-HALF PER CENT. ALCOHOL, BY VOLUME. BIRK BROTHERS BREWING COMPANY, Chicago, Ill.
Filed October 14, 1919. Serial No. 123,769. PUBLISHED FEBRUARY 10, 1920.

131,286. DIESTOCKS, HAND PIPE-CUTTERS, AND CHASERS AND KNIVES FOR SUCH DIESTOCKS AND PIPE-CUTTERS. THE BORDEN COMPANY, Warren, Ohio.
Filed October 2, 1919. Serial No. 123,329. PUBLISHED FEBRUARY 3, 1920.

131,287. CANDIES. E. J. BRACH & SONS, Chicago, Ill.
Filed October 13, 1919. Serial No. 123,727. PUBLISHED MARCH 2, 1920.

131,288. SEWING-MACHINES AND PARTS THEREOF. LOUIS BULASKY, New York, N. Y.
Filed November 8, 1919. Serial No. 124,676. PUBLISHED JANUARY 27, 1920.

131,289. CERTAIN NAMED MACHINERY. J. I. CASE THRESHING MACHINE COMPANY, Racine, Wis.
Filed June 11, 1919. Serial No. 119,470. PUBLISHED DECEMBER 2, 1919.

131,290. METALLIC FENCEPOSTS. CHICAGO STEEL POST COMPANY, Chicago, Ill.
Filed October 6, 1919. Serial No. 123,473. PUBLISHED FEBRUARY 10, 1920.

131,291. SUBSTANCE FOR TREATING COAL. COAL CONSERVATION COMPANY, Boston, Mass.
Filed August 20, 1919. Serial No. 121,832. PUBLISHED DECEMBER 30, 1919.

131,292. SULFURIC ACID. COLLINSVILLE ZINC CORPORATION, Collinsville, Ill.
Filed September 29, 1919. Serial No. 123,239. PUBLISHED MARCH 2, 1920.

131,293. FRESH FRUIT IN PACKAGES AND BARRELS. EDWIN E. CONNERY, Minneapolis, Minn.
Filed November 24, 1919. Serial No. 125,222. PUBLISHED MARCH 2, 1920.

131,294. BOILER COMPOUNDS. CORROSANTI CHEMICAL CO. INC., Newark, N. J.
Filed September 29, 1919. Serial No. 123,238. PUBLISHED JANUARY 6, 1920.

131,295. CERTAIN NAMED CANNED FRUITS AND CANNED VEGETABLES. CROKER PACKING CO., San Francisco, Calif.
Filed December 27, 1919. Serial No. 126,505. PUBLISHED MARCH 2, 1920.

131,296. BOLT-HOOKS FOR HANDLING BOLTS OF WOOD AND PACKAGES, AND ICE-TONGS. ELROY R. DAVIS, Paris, Me.
Filed October 14, 1919. Serial No. 123,774. PUBLISHED FEBRUARY 24, 1920.

131,297. PERFUMES, TOILET WATERS, FACE-POWDERS, TALCUM POWDERS, BRILLIANTINES, SACHET-POWDERS, AND ROUGES. DENNEY & DENNEY, Philadelphia, Pa.
Filed October 1, 1919. Serial No. 123,309. PUBLISHED JANUARY 13, 1920.

131,298. MAGNETO-FILES AND TOOLS FOR CLEANING SPARK-PLUGS. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa.
Filed October 18, 1919. Serial No. 123,922. PUBLISHED FEBRUARY 24, 1920.

131,299. SALVE FOR SCALP MALADIES. DI-TESTA CO., New Haven, Conn.
Filed October 29, 1919. Serial No. 124,299. PUBLISHED FEBRUARY 24, 1920.

131,300. WIRE, RODS, SHEETS, STRIPS, AND CASTINGS, ALL COMPOSED OF METALS OR ALLOYS OF METALS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed October 31, 1919. Serial No. 124,394. PUBLISHED FEBRUARY 10, 1920.

131,301. WRENCHES AND SOCKET-WRENCH SETS. LEE DRULARD, Detroit, Mich.
Filed December 6, 1919. Serial No. 125,653. PUBLISHED FEBRUARY 24, 1920.

131,302. DROP-FORGED PARTS. THE DUFF MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed December 3, 1919. Serial No. 125,532. PUBLISHED FEBRUARY 3, 1920.

131,303. INSECTICIDE AND GERMICIDE. DUPUIS CHEMICAL CO., Los Angeles, Calif., and El Paso, Tex.
Filed September 19, 1919. Serial No. 122,884. PUBLISHED JANUARY 6, 1920.

131,304. EXPECTORANT AND COUGH-SEDATIVE. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed July 7, 1919. Serial No. 120,310. PUBLISHED DECEMBER 30, 1919.

131,305. EGGS. THE FAIRMONT CREAMERY COMPANY, Omaha, Nebr.
Filed December 9, 1919. Serial No. 125,749. PUBLISHED MARCH 2, 1920.

131,306. LIQUID CARBON-REMOVER FOR USE IN REMOVING CARBON FROM GASOLENE-ENGINES. THE FEARLESS PRODUCTS MANUFACTURING CORPORATION, Manhattan, Kans.
Filed September 18, 1919. Serial No. 122,829. PUBLISHED DECEMBER 30, 1919.

131,307. IRON AND STEEL. FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y.
Filed December 3, 1919. Serial No. 125,536. PUBLISHED FEBRUARY 3, 1920.

131,308. MEDICINAL PREPARATION TO BE USED AS A DENTIFRICE. ARTHUR M. FLOOD, San Francisco, Calif.
Filed October 1, 1919. Serial No. 123,314. PUBLISHED JANUARY 27, 1920.

131,309. CERTAIN NAMED CANNED VEGETABLES. GENERAL COFFEE & TEA CO., Baltimore, Md.
Filed December 27, 1919. Serial No. 126,510. PUBLISHED MARCH 2, 1920.

131,310. CHERRY-PHOSPHATE, BIRCH-BEER, ORANGE-SODA, GINGER-ALE, LEMON-SOUR, AND ROOT-BEER. THE GIERING BOTTLING COMPANY, Youngstown, Ohio.
Filed March 26, 1919. Serial No. 116,922. PUBLISHED FEBRUARY 3, 1920.

131,311. AURICULAR SEISMOGRAPHS. GLOBE EAR-PHONE COMPANY, Boston, Mass.
Filed October 2, 1919. Serial No. 123,346. PUBLISHED FEBRUARY 24, 1920.

131,312. COFFEE. GORDON, SEWALL & CO., Houston, Tex.
Filed October 6, 1919. Serial No. 123,482. PUBLISHED MARCH 2, 1920.

131,313. TALCUM POWDER. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed October 23, 1919. Serial No. 124,102. PUBLISHED FEBRUARY 24, 1920.

131,314. CHOCOLATE AND CANDIES. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y.
Filed October 25, 1919. Serial No. 124,176. PUBLISHED JANUARY 27, 1920.

131,315. AIR-VALVES FOR AUTOMOBILE-TIRES, PNEUMATIC CUSHIONS, LIFE-PRESERVERS, AND OTHER SIMILAR PURPOSES. THE GRIFFIN MFG. CO., Boston, Mass.
Filed September 18, 1919. Serial No. 122,832. PUBLISHED FEBRUARY 24, 1920.

131,316. CANNED VEGETABLES—NAMELY, CANNED CORN. GRIMES-PERRY CANNING COMPANY, Grimes, Iowa.
Filed December 15, 1919. Serial No. 126,020. PUBLISHED MARCH 2, 1920.

131,317. MOVING-PICTURE FILMS. HALLMARK PICTURES CORPORATION, New York, N. Y.
Filed November 4, 1919. Serial No. 124,521. PUBLISHED FEBRUARY 3, 1920.

131,318. CULTIVATORS, PLANTERS, AND FERTILIZER-DISTRIBUTERS. THE HARRIMAN MANUFACTURING COMPANY, Harriman, Tenn.
Filed October 10, 1919. Serial No. 123,644. PUBLISHED FEBRUARY 24, 1920.

131,319. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. HARTMANN & FEHRENBACH PRODUCTS CO., Wilmington, Del.
Filed August 12, 1919. Serial No. 121,586. PUBLISHED FEBRUARY 10, 1920.

131,320. INSECTICIDES. HENRY HEIL CHEMICAL COMPANY, St. Louis, Mo.
Filed October 22, 1919. Serial No. 124,089. PUBLISHED FEBRUARY 24, 1920.

131,321. CANNED CONDENSED MILK. HENCKEN & BURNER, San Francisco, Calif.
Filed December 27, 1919. Serial No. 126,514. PUBLISHED MARCH 2, 1920.

131,322. HAMMERS, POCKET-KNIVES, KITCHEN-KNIVES, BUTCHER-KNIVES, AND SHINGLING-HATCHETS. HIBBARD, SPENCER, BARTLETT & CO., Chicago, Ill.
Filed December 23, 1919. Serial No. 126,379. PUBLISHED FEBRUARY 24, 1920.

131,323. STEEL. JOHN R. HOGAN, Philadelphia, Pa.
Filed December 6, 1919. Serial No. 125,657. PUBLISHED FEBRUARY 3, 1920.

131,324. NOODLES. HOME-MADE NOODLE CO., Philadelphia, Pa.
Filed November 13, 1919. Serial No. 124,859. PUBLISHED MARCH 2, 1920.

131,325. CERTAIN NAMED PREPARATIONS USED IN EMBALMING. MICHAEL JOSEPH HYLAND, Rochester, N. Y.
Filed September 12, 1919. Serial No. 122,598. PUBLISHED DECEMBER 30, 1919.

131,326. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. INDEPENDENT BREWING COMPANY OF PITTSBURGH, Pittsburgh, Pa.
Filed July 9, 1919. Serial No. 120,387. PUBLISHED FEBRUARY 10, 1920.

131,327. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL, BY VOLUME. INDEPENDENT BREWING COMPANY OF PITTSBURGH, Pittsburgh, Pa.
Filed July 9, 1919. Serial No. 120,388. PUBLISHED FEBRUARY 10, 1920.

131,328. FLUID-PRESSURE-OPERATED DRILLING-MACHINES. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed October 17, 1919. Serial No. 123,894. PUBLISHED FEBRUARY 10, 1920.

131,329. DOMESTIC COOKING-BOILERS. WILLIAM J. JAEGER, New York, N. Y.
Filed November 22, 1919. Serial No. 125,184. PUBLISHED FEBRUARY 24, 1920.

131,330. CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. JETTER BEVERAGE COMPANY, Omaha, Nebr.
Filed September 16, 1919. Serial No. 122,774. PUBLISHED FEBRUARY 3, 1920.

131,331. LINIMENTS FOR THE TREATMENT OF CERTAIN NAMED AFFECTIONS. LEROY JONES, Houston, Tex.
Filed September 29, 1919. Serial No. 123,235. PUBLISHED FEBRUARY 10, 1920.

131,332. PREPARATION FOR THE TREATMENT OF MUCOUS-MEMBRANE DISORDERS AND DISEASES. KALYPTOL CHEMICAL COMPANY, Newark, N. J.
Filed April 22, 1918. Serial No. 110,376. PUBLISHED APRIL 8, 1919.

131,333. FRUIT JAMS. KELLEY-CLARKE CO., Seattle, Wash.
Filed November 28, 1919. Serial No. 125,384. PUBLISHED MARCH 2, 1920.

131,334. MEDICINAL PREPARATION FOR RHEUMATISM, BACKACHE, LUMBAGO, STRAINS, PAINS, AND BRUISES FOR EXTERNAL APPLICATION. KREO-RUB CHEMICAL CO., Maryville, Tenn.
Filed May 24, 1919. Serial No. 118,885. PUBLISHED DECEMBER 30, 1919.

131,335. CERTAIN NAMED DYES. LAMIE CHEMICAL COMPANY, Huntington, W. Va.
Filed July 26, 1919. Serial No. 120,966. PUBLISHED DECEMBER 30, 1919.

131,336. WRENCHES, PIPE-CUTTERS, CLAMPS, AND LATHE-DOGS. LARCO WRENCH AND MFG. CORPORATION, Chicago, Ill.
Filed October 27, 1919. Serial No. 124,220. PUBLISHED FEBRUARY 24, 1920.

131,337. CHEWING-GUM. L. P. LARSON JR. COMPANY, Chicago, Ill.
Filed October 20, 1919. Serial No. 123,989. PUBLISHED MARCH 2, 1920.

131,338. BREAD-SLICING MACHINES. LIBERTY BREAD SLICER COMPANY, INC., Rochester, N. Y.
Filed December 8, 1919. Serial No. 125,706. PUBLISHED FEBRUARY 24, 1920.

131,339. FACE-POWDER; ROUGE, (DRY;) LIQUID ROUGE, DEPILATORY, NAIL-POLISH, CREAM FOR THE COMPLEXION. LAWRENCE R. LONG, San Antonio, Tex.
Filed September 30, 1919. Serial No. 123,286. PUBLISHED FEBRUARY 10, 1920.

131,340. OIL-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,059. PUBLISHED FEBRUARY 10, 1920.

131,341. OIL-PUMPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,063. PUBLISHED FEBRUARY 3, 1920.

131,342. OIL-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,067. PUBLISHED FEBRUARY 3, 1920.

131,343. OINTMENT FOR PILES, BURNS, BOILS, BEALINGS, AND ERUPTIONS. WILLIAM C. LYNCH, Washington, D. C.
Filed September 26, 1919. Serial No. 123,197. PUBLISHED FEBRUARY 24, 1920.

131,344. CANNED FRUITS—NAMELY, CANNED PEACHES AND CANNED PEARS AND CANNED APRICOTS, CANNED PLUMS. MANTECA PACKING COMPANY, Manteca, Calif.
Filed December 27, 1919. Serial No. 126,535. PUBLISHED MARCH 2, 1920.

131,345. CERTAIN NAMED FRESH CITRUS FRUITS AND CERTAIN NAMED FRESH FRUITS. LATIMER MAXCY, Frostproof, Fla.
Filed October 20, 1919. Serial No. 123,996. PUBLISHED MARCH 2, 1920.

131,346. ANÆSTHETICS. H. A. METZ LABORATORIES, INC., New York, N. Y.
Filed September 27, 1919. Serial No. 123,214. PUBLISHED JANUARY 6, 1920.

131,347. PUMPS FOR PUMPING LIQUIDS. MICHIGAN MACHINE COMPANY, Detroit, Mich.
Filed October 8, 1919. Serial No. 123,549. PUBLISHED FEBRUARY 24, 1920.

131,348. NON-ALCOHOLIC NON-INTOXICATING MALTLESS NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK. MONARCH MFG. CO., Atlanta, Ga.
Filed December 27, 1919. Serial No. 126,533. PUBLISHED MARCH 2, 1920.

131,349. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,357. PUBLISHED DECEMBER 30, 1919.

131,350. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,358. PUBLISHED DECEMBER 30, 1919.

131,351. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,359. PUBLISHED DECEMBER 30, 1919.

131,352. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,360. PUBLISHED DECEMBER 30, 1919.

131,353. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,361. PUBLISHED DECEMBER 30, 1919.

131,354. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,362. PUBLISHED DECEMBER 30, 1919.

131,355. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,363. PUBLISHED DECEMBER 30, 1919.

131,356. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,366. PUBLISHED DECEMBER 30, 1919.

131,357. PECAN-NUTS IN THEIR NATURAL STATE. NATIONAL PECAN GROWERS EXCHANGE, Albany, Ga.
Filed November 12, 1919. Serial No. 124,807. PUBLISHED MARCH 2, 1920.

131,358. MEDICINE FOR THE DISEASED MUCOUS MEMBRANE OF THE NOSE, THROAT, MOUTH, AND EAR. OTORINO MANUFACTURING COMPANY, New York, N. Y.
Filed April 17, 1919. Serial No. 117,572. PUBLISHED JANUARY 20, 1920.

131,359. WRENCHES. PACKER AUTO SPECIALTY CO., Chicago, Ill.
Filed November 8, 1919. Serial No. 124,690. PUBLISHED FEBRUARY 24, 1920.

131,360. COFFEE, TEA, AND FLAVORING EXTRACTS FOR FOODS. PAGE-CONNELL COFFEE COMPANY, St. Joseph, Mo.
Filed December 16, 1919. Serial No. 126,137. PUBLISHED MARCH 2, 1920.

131,361. DRYING MACHINERY FOR THE MANUFACTURE OF CLAY AND CERAMIC PRODUCTS. THE PHILADELPHIA DRYING MACHINERY COMPANY, Philadelphia, Pa.
Filed November 20, 1919. Serial No. 125,126. PUBLISHED FEBRUARY 24, 1920.

131,362. PREPARATION FOR THE TREATMENT OF ASTHMA, BRONCHITIS, CATARRH, BURNS, RHEUMATISM, AND ITCHING PILES. JOSEPH M. PIERRE, Fort Wayne, Ind.
Filed October 2, 1919. Serial No. 123,364. PUBLISHED JANUARY 27, 1920.

131,363. PREPARATION FOR COUGHS AND COLDS. THE PISO COMPANY, Warren, Pa.
Filed October 1, 1919. Serial No. 123,318. PUBLISHED DECEMBER 30, 1919.

131,364. LOCOMOTIVE AND MACHINERY AXLES, SHAFTS, AND GEARS. THE POLLAK STEEL COMPANY, Cincinnati, Ohio.
Filed November 1, 1919. Serial No. 124,447. PUBLISHED FEBRUARY 24, 1920.

131,365. POWER-HOISTS. SAMUEL W. PRUSSIAN, Cambridge, Mass.
Filed October 25, 1919. Serial No. 124,189. PUBLISHED JANUARY 27, 1920.

131,366. MINERAL AND AERATED WATERS, NATURAL AND ARTIFICIAL. W. A. ROSS & SONS, LIMITED, Belfast, Ireland.
Filed February 17, 1919. Serial No. 115,930. PUBLISHED DECEMBER 16, 1919.

131,367. HAND-OPERATED SUCTION CARPET-SWEEPERS. THE SCOTT-FETZER COMPANY, Cleveland, Ohio.
Filed October 6, 1919. Serial No. 123,502. PUBLISHED FEBRUARY 3, 1920.

131,368. CHEMICAL FIRE-EXTINGUISHING-POWDER COMPOUND. SELECT PRODUCTS SALES CORPORATION, New York, N. Y.
Filed September 9, 1919. Serial No. 122,502. PUBLISHED JANUARY 6, 1920.

131,369. SALVES AND OINTMENTS FOR CERTAIN NAMED DEFECTIONS. ADOLPH SHIFRIN, Brooklyn, N. Y.
Filed September 12, 1919. Serial No. 122,615. PUBLISHED DECEMBER 30, 1919.

131,370. MACARONI, VERMICELLI, AND NOODLES. SKINNER MANUFACTURING CO., Omaha, Nebr.
Filed December 15, 1919. Serial No. 126,073. PUBLISHED MARCH 2, 1920.

131,371. CARPENTERS' PLANES. THE STANLEY RULE & LEVEL COMPANY, New Britain, Conn.
Filed November 6, 1919. Serial No. 124,628. PUBLISHED FEBRUARY 24, 1920.

131,372. PHARMACEUTICAL PREPARATION FOR THE TREATMENT OF SKIN DISEASES. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed April 7, 1919. Serial No. 117,255. PUBLISHED JANUARY 6, 1920.

131,373. LINIMENT FOR TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. LON W. UMBAUGH, Ohio City, Ohio.
Filed September 13, 1919. Serial No. 122,670. PUBLISHED DECEMBER 30, 1919.

131,374. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,372. PUBLISHED FEBRUARY 24, 1920.

131,375. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,373. PUBLISHED FEBRUARY 24, 1920.

131,376. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,374. PUBLISHED FEBRUARY 24, 1920.

131,377. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,375. PUBLISHED FEBRUARY 24, 1920.

131,378. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,376. PUBLISHED FEBRUARY 24, 1920.

131,379. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed October 30, 1919. Serial No. 124,377. PUBLISHED FEBRUARY 24, 1920.

131,380. REMEDIES FOR HEADACHE, INSOMNIA, NEURALGIA, NERVOUS DYSPEPSIA, CONSTIPATION, AND SEASICKNESS. UNITED LABORATORIES, INC., St. Louis, Mo.
Filed September 26, 1919. Serial No. 123,187. PUBLISHED JANUARY 13, 1920.

131,381. NUT-LOCKS. UNITED NUT LOCK COMPANY, Springfield, Mass.
Filed November 22, 1919. Serial No. 125,202. PUBLISHED FEBRUARY 24, 1920.

131,382. COSMETICS—NAMELY, FACE-POWDERS, WRINKLE-CREAM, SUNBURN-LOTION, SHAVING-LOTION, AND FACIAL BEAUTIFIER. USIT MFG. CO. OF AMERICA INC., New York, N. Y.
Filed April 10, 1919. Serial No. 117,360. PUBLISHED JANUARY 6, 1920.

131,383. MOVING-PICTURE FILMS. THE VITAGRAPH COMPANY OF AMERICA, Brooklyn, N. Y.
Filed September 25, 1919. Serial No. 123,147. PUBLISHED FEBRUARY 24, 1920.

131,384. CERTAIN NAMED TOILET PREPARATIONS. VICTOR VIVAUDOU, New York, N. Y.
Filed October 1, 1919. Serial No. 123,324. PUBLISHED JANUARY 27, 1920.

131,385. SPARK-PLUG TOOLS. WALLACE MANUFACTURING CO. INC., Newark, N. J.
Filed October 9, 1919. Serial No. 123,593. PUBLISHED FEBRUARY 3, 1920.

131,386. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. WELLMAN-PECK & CO., San Francisco, Calif.
Filed October 10, 1919. Serial No. 123,659. PUBLISHED MARCH 2, 1920.

131,387. CANNED FRUITS—NAMELY, CANNED PEARS, CANNED APRICOTS, AND CANNED PEACHES. WESTERN CANNING COMPANY, Oakland, Calif.
Filed October 20, 1919. Serial No. 124,032. PUBLISHED MARCH 2, 1920.

131,388. EYE REMEDY. WHEELER OPTICAL COMPANY, Portland, Oreg.
Filed April 28, 1919. Serial No. 117,960. PUBLISHED JANUARY 6, 1920.

131,389. PHOTOGRAPHIC LENSES. WOLLENSAK OPTICAL CO., Rochester, N. Y.
Filed November 29, 1919. Serial No. 125,445. PUBLISHED FEBRUARY 3, 1920.

131,390. SHOVELS, SPADES, SCOOPS, AND DRAINAGE-TOOLS. THE WOOD SHOVEL & TOOL CO., Piqua, Ohio.
Filed October 21, 1919. Serial No. 124,064. PUBLISHED JANUARY 27, 1920.

131,391. TURRET-LATHES AND SCREW-MACHINES. WOOD TURRET MACHINE CO., Brazil, Ind.
Filed December 26, 1919. Serial No. 126,500. PUBLISHED FEBRUARY 24, 1920.

TRADE-MARK REGISTRATIONS RENEWED.

15,972. MEDICINE FOR DIPHTHERIA AND CROUP. MRS. F. HORST & CO., Independence, Wis., Arthur F. Horst, successor.
Registered October 30, 1888. Renewed October 30, 1918.

LABELS

REGISTERED MAY 11, 1920.

21,853.—*Title:* "AMERICAN LEADER." (For Flour.) BAY CITY MILLING CO., Bay City, Mich. Filed June 30, 1919.

21,854.—*Title:* "ANATOLIKOS ASTIR." (For Coffee.) THE COMMERCIAL TEA & COFFEE CO., Boston, Mass. Filed February 26, 1920.

21,855.—*Title:* "EVERYWHERE ON EVERYTHING." (For Paints, Varnishes, Colors, and Insecticides.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed February 9, 1920.

21,856.—*Title:* "HOLCO BRAND SARDINES." (For Sardines.) HOLTRANS COMPANY, INC., New York, N. Y. Filed March 15, 1920.

21,857.—*Title:* "MAGNUS STOMACH BITTERS." (For a Proprietary Medicine.) MAGNUS DRUG CHEMICAL COMPANY, Chicago, Ill. Filed November 7, 1919.

21,858.—*Title:* "PEERLESS LAUNDRY TABLETS." (For Laundry-Tablets.) THE M. & S. CHEMICAL CO., Omaha, Nebr. Filed June 7, 1919.

21,859.—*Title:* "MASON'S KHUFU." (For Chocolate Cocoanut Cream Bars.) MASON, AU & MAGENHEIMER CONFECTIONERY MFG. CO., Brooklyn, N. Y. Filed September 25, 1919.

21,860.—*Title:* "MASON'S KHUFU." (For Chocolate Cocoanut Cream Bars.) MASON, AU & MAGENHEIMER CONFECTIONERY MFG. CO., Brooklyn, N. Y. Filed September 25, 1919.

21,861.—*Title:* "MASON'S NUT MALOBAR." (For Chocolate Marshmallow-Candy.) MASON, AU & MAGENHEIMER CONFECTIONERY MFG. CO., Brooklyn, N. Y. Filed September 25, 1919.

21,862.—*Title:* "MASON MINTS." (For Mint-Candy.) MASON, AU & MAGENHEIMER CONFECTIONERY MFG. CO., Brooklyn, N. Y. Filed September 25, 1919.

21,863.—*Title:* "MASON MINTS." (For Mint Candy.) MASON, AU & MAGENHEIMER CONFECTIONERY MFG. Co., Brooklyn, N. Y. Filed September 25, 1919.

21,864.—*Title:* "CHOCOLATE COVERED NUTS." (For Chocolate Candy—Namely, Chocolate-Covered Nuts.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed September 10, 1919.

21,865.—*Title:* "MRS. SHEPARD'S FRUIT FLAKES." (For Flaked and Cooked Fruits—Namely, Apples.) SHEPARD FRUIT PRODUCTS COMPANY, Wenatchee, Wash. Filed October 29, 1919.

21,866.—*Title:* "WELCH-APL." (For a Non-Alcoholic Beverage Consisting of Apple-Syrup and Carbonated Water.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed November 18, 1919.

21,867.—*Title:* "SWISS-ALPINE STYLE SWEET MILK CHOCOLATE." (For Sweet Chocolate.) YORK CHOCOLATE COMPANY, York, Pa. Filed May 29, 1919.

21,868.—*Title:* "EXPORT BEVERAGE—EXTRA FINE" (For a Certain Beverage.) N. B. GILLER, Jacksonville, Fla. Filed December 15, 1919.

PRINTS

REGISTERED MAY 11, 1920.

5,256.—*Title:* "STARTING RIGHT: BON BON NEVER DISAPPOINTS." (For Baking-Powder.) J. C. GRANT CHEMICAL CO., East St. Louis, Ill. Filed September 16, 1919.

5,257.—*Title:* "COMFORT COKE." (For Fuel-Coke.) UNITED FUEL & SUPPLY COMPANY, Detroit, Mich. Filed September 6, 1919.

5,258.—*Title:* "TAKING CARE OF BALL BEARINGS OF OUR LITTLE GIANT LINE OF GRINDING MILLS." (For Ball-Bearings of Our Little Giant Line of Grinding Mills Used as Feed-Grinders.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed November 24, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE WRIGHT.

Decided April 26, 1920.

INTERFERENCE—REOPENING—CHANGE IN PRACTICE.

Where in an interference involving an applicant and a patentee priority was awarded to the patentee on the ground that under the ruling in *Wintroath* v. *Chapman* (248 O. G., 1004; 46 App. D. C., 428), the applicant was estopped to make the claims and no appeal was taken from that decision, *Held* that the fact that the decision in the case cited was subsequently reversed by the Supreme Court does not warrant the reopening of the interference.

ON PETITION.

TELEPHONE-EXCHANGE SYSTEM.

Mr. Joseph L. Wright pro se.

NEWTON, *Commissioner:*

Applicant petitions from the action of the Primary Examiner refusing to enter an amendment seeking to reinsert claims canceled after an adverse decision in an interference.

It appears that applicant copied claims from a Stanton patent more than a year after the patent issued. The Examiner of Interferences awarded priority to Stanton, and his decision was affirmed by the Examiners-in-Chief. Both decisions were based on the ground that applicant was estopped by his delay of more than a year in copying the claims, under the rule laid down in *Rowntree* v. *Sloan* (227 O. G., 744; 45 App. D. C., 207) and *Wintroath* v. *Chapman and Chapman* (248 O. G., 1004; 46 App. D. C., 428).

No appeal was taken from the decision of the Examiners-in-Chief, which was rendered March 11, 1919, and thereupon the interference was terminated, and Wright's claims involved in interference were finally rejected April 23, 1919, as provided in Rule 132, and on March 11, 1920, the claims corresponding to the issue of the interference were canceled.

In the amendment and in the petition attention is called to the decision of the Supreme Court of the United States in *Chapman and Chapman* v. *Wintroath* (272 O. G., 913), and it is argued that in view of the ruling therein the amendment should be entered and the interference again declared, since the claims were copied from the patent within two years of the issuance thereof.

It is well settled, however, that the reversal of a decision does not warrant the reopening of cases which had been meantime finally disposed of under the authority of the original decision. (*Miller* v. *Tyler*, 58 N. Y., 477; *Travis County* v. *King Iron Bridge & Mfg. Co.*, 92 Fed. Rep., 690; *Harburg* v. *Arnold*, 87 Mo. App., 326.)

In the first of these cases the court said:

By the consent, or, which is the equivalent of a consent, by the default of the appellants and their voluntary act in omitting to oppose the motion, the judgment was modified so as to entitle the plaintiffs to coin at their option, instead of legal tender notes, in payment of the mortgage debt. This was in conformity to the legal rights of the parties, as then well understood, and as they had been adjudicated by the highest court of the nation. The reconsideration of the question by the Supreme Court of the United States, with a result adverse to its first judgment, did not affect the existing judgments of State courts, or call for a modification and change of their records to meet the changed views and judgment of that court. A contrary doctrine would lead to the absurd necessity of correcting and modifying all judgments, whether existing and in force or satisfied and fully executed, upon the enunciation by a court of superior authority of a doctrine in conflict with and legally subversive of the principles upon which they were rendered. If judgments are erroneous they can only be reviewed and reversed or modified by error or appeal in the mode prescribed by law.

The petition is denied.

SHENK AND HOLMAN *v.* CLARK.

Decided November 4, 1918.

PATENTS—INTERFERENCE—RIGHT TO MAKE CLAIM.

The disclosure of Clark considered and *Held* that he has a right to make the count in issue, which was directed to a refractive screen for headlights having a reflector comprising surfaces of variant vertical distributive dispersion and surfaces of variant lateral distributive dispersion.

APPEAL from Examiners-in-Chief.

HEADLIGHTS.

Mr. Ralph H. Holman and *Messrs. Spear, Middleton, Donaldson & Spear* for Shenk and Holman.

Messrs. Hull, Smith, Brock & West for Clark.

CLAY, *Assistant Commissioner:*

The junior party, Shenk and Holman, jointly appeal from an affirmance of an award of priority to Clark on an issue worded as follows:

A refractive screen for use with a headlight having a reflector comprising surfaces of variant vertical distributive dispersion and surfaces of variant lateral distributive dispersion at and beyond the intercept of the roadway.

The case comes up on a judgment after rule to show cause on the junior party, Shenk and Holman having moved to dissolve on the ground that Clark did not disclose the invention in issue.

The issue is a claim in Patent No. 1,224,421, granted May 1, 1917, to Shenk and Holman inadvertently without interference. In this patent they set forth their purpose to redistribute the beam of light emerging from the automobile-headlight so as to make it strike the roadway uniformly and prevent glare. They use one set of prisms arranged horizontally and one set arranged vertically. Both sets of prisms are intended to distribute the light with varied angularities at different parts of the beam. In their appeal they insist that this claim must be so construed as to be valid in view of the state of the art and that when so construed the Clark construction does not respond to it. They say specifically that—

Clark's depressor prisms are merely different, while Shenk and Holman's are graded or variant.

They say it was not patentable to merely provide some prisms at different angles from some others in order to diffuse the light and that Clark did not have means for a "distributive dispersion."

Clark's application shows a clear understanding of the problem and the difference between this problem and the ordinary functions of lenses. He aims to prevent waste of light above the focal line and throw it below the focal line by producing a beam which is at a maximum intensity at the top and below the horizontal is spread upon the roadway. He uses horizontal prisms for downward refraction and for "lateral spreading" elements he uses ribs or grooves—

or they may be prismatic elements set at a variety of angles so as to give a spread instead of a mere deflection of the beam, (p. 2.)

Farther on he says that the light is to have a graded spread according to its dispersion, (p. 3.) This antithesis is also expressed in the last sentence of his original claim 2.

The appellants insist that in view of the prior art their construction of the claim must prevail, and call attention to an apparent statement in the Saulsbury British patent, No. 28,187 of 1908, which they say meets the claim in issue if construed as the Examiners-in-Chief have construed it. But this British patent says at page 2, line 49, that the prisms have all the same inclination. The claim also specifies this. When, therefore, at page 3, line 22 of the patent, he says the inclination may be varied "at the top and bottom of the lamp and or at the sides" for divergence, he clearly means only a different inclination at the edges, as shown. The invention could not reside in the gradual variation of the prisms, for this is shown in the Macbeth patent, No. 1,189,848, of December 8, 1914. It must reside in the combination of the elements, as Clark says at the bottom of page 3 of his specification. (See also Churchill patent, No. 1,081,210, of December 9, 1913.)

It is true that since the issue of the interference is assumed to be patentable, it should be so read as to describe a patentable construction, but whatever way it is read it describes the invention Clark disclosed on June 11, 1915, six months before it was disclosed by Shenk and Holman. Not only are the surfaces of Clark's prism variant in the sense that one group is thicker or more inclined than another, but they are necessarily variant within the group because of their position with respect to the source of light and the axes of the parabolic reflector behind the source. The claim can not be confined, as Shenk and Holman contend, but even if it were confined it would not fail to find support in the Clark disclosure. The only inventive idea presented is found as well in Clark's as in the appellant's specification. The decision of the Examiners-in-Chief is therefore affirmed.

OPINION OF THE ATTORNEY-GENERAL.

PATENTS—STATUTES—ACT OF MARCH 3, 1883, CONSTRUED.

When a patent issues under the provisions of the act of March 3, 1883, (22 Stat., 603,) authorizing the Secretary of the Interior and the Commissioner of Patents to grant patents without the payment of any fee to officers of the Government, except officers and employees of the Patent Office, no dedication to the public results, but any person in the United States, including governmental officers and employees, may use the invention disclosed in the patent without the payment of royalty, provided the use be in the prosecution of work for the Federal Government.

DEPARTMENT OF JUSTICE,
Washington, D. C., March 22, 1920.

SIR: This is in compliance with your request of November 24, 1919, for my opinion as to whether or not the act of March 3, 1883, (22 Stat., 603,) operates to dedicate to the public inventions disclosed in patents issued thereunder.

The act reads:

The Secretary of the Interior and the Commissioner of Patents are authorized to grant any officer of the Government, except officers and employees of the Patent Office, a patent for any invention of the classes mentioned in section forty-eight hundred and eighty-six of the Revised Statutes, when such invention is used or to be used in the public service, without the payment of any fee: *Provided*, That the applicant in his application shall state that the invention described therein, if patented, may be used by the Government or any of its officers or employees in the prosecution of work for the Government, or by any other person in the United States, without the payment to him of any royalty thereon, which stipulation shall be included in the patent.

It is my opinion that when a patent issues under the provisions of this act no dedication to the public results, but that any person in the United States, including governmental officers and employees, may use the invention disclosed in the patent without the payment of royalty, provided the use be in the prosecution of work for the Federal Government. This conclusion is in accord with that reached by the Judge-Advocate General of the Army in his opinion dated November 30, 1918. (260 O. G., 733.)

As far as I can learn no court has passed upon this question, and diligent search of the records of Congress in an effort to find some expression of the intent of this act in records of debate or minutes of committee has been unavailing. Consequently I have recourse only to the act itself and the natural inferences to be drawn from it.

The view that the act works a dedication of the invention to the public has been advanced; but it is a view with which I am unable to agree.

The Constitution of the United States gave to Congress the power (Art. I, sec. 8, clause 8)—

to promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries.

By virtue of the power thus vested in it Congress enacted the patent statutes, sections 4884 and 4886, Revised Statutes, being particularly in point on the present question.

These sections read:

SEC. 4884. Every patent shall contain a short title or description of the invention or discovery correctly indicating its nature and design, and a grant to the patentee, his heirs or assigns, for the term of seventeen years, of the exclusive right to make, use, and vend the invention or discovery throughout the United States and the Territories thereof, referring to the specification for the particulars thereof. A copy of the specification and drawings shall be annexed to the patent and be a part thereof.

SEC. 4886. Any person who has invented or discovered any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvement thereof, not known or used by others in this country, before his invention or discovery thereof, and not patented or described in any printed publication in this or any foreign country, before his invention or discovery thereof, or more than two years prior to his application, and not in public use or on sale in this country for more than two years prior to his application, unless the same is proved to have been abandoned, may, upon payment of the fees required by law, and other due proceedings had, obtain a patent therefor.

By the enactment of section 4886, Revised Statutes, Congress gave the name "patent" to the "exclusive right" alluded to in the Constitution, and by the enactment of section 4884, Revised Statutes, it defined the "exclusive right" or "patent" as the exclusive right to make, use, and vend the invention throughout the United States and the Territories thereof for a period of seventeen years. (*Continental Paper Bag Co.* v. *Eastman Paper Bag Co.*, 210 U. S., 405; *Patterson* v. *Kentucky*, 97 U. S., 501; *Bloomer* v. *McQuewan*, 55 U. S., 539; *Grant* v. *Raymond*, 31 U. S., 217.)

It therefore follows, logically, that when Congress in the act of March 3, 1883, authorized the Secretary of the Interior and the Commissioner of Patents to grant *a patent* it authorized the grant of the exclusive right to make, use, and vend the invention. Hence if the act be interpreted to mean that the invention is dedicated to the public by operation thereof the applicant would be granted no exclusive right and would obtain no patent except in name. The instrument, although called a patent, would be practically tantamount to a mere publication of the invention and effective only to prohibit the obtaining of a valid patent for the same invention by a later inventor. Obviously it was unnecessary to enact a statute to produce this effect, for the same result was attainable by disclosure of the invention in a publication. As a matter of fact, the disclosure in a publication would probably be easier and less expensive, for it would obviate the necessity of the filing, prosecution, and examination of a formal patent application.

But if the act be interpreted to mean that the Government would acquire only such rights in the invention as I have hereinbefore defined a patent monopoly would be granted to the applicant, subject only to such rights in or on behalf of the Government. The applicant would receive the patent, the Government its benefits thereunder, and the apparent intention of Congress would be satisfied.

A patent is a contract between the United States and the patentee, wherein the consideration flowing from the United States to the patentee resides in the grant of the exclusive right to make, use, and vend the invention of the patent for a limited time, while the consideration flowing from the patentee to the United States is the dedication of the invention to the public at the expiration of said limited time. (*Denning Wire & Fence Co.* v. *Am. Steel & Wire Co.*, 169 F. R., 793; *Century Electric Co.* v. *Westinghouse Electric & Mfg. Co.*, 191 F. R., 350.) It is evident that if no monopoly be granted the consideration on the one hand fails and the contract (and therefore the patent) does not come into existence.

If Congress intended that every person in the United States might use the invention without the payment of royalty, it was obviously unnecessary to require the applicant to state anything but that the invention could be so used by the Government *or any person in the United States*. The expression—

or any of its officers or employees in the prosecution of work for the Government—

would be unnecessary and mere surplusage. But these phrases cannot be regarded as surplusage, and evidently the intent of that portion of the act may be accurately expressed by considering the expression "or any other person in the United States" to mean "or any other person in the United States in the prosecution of work for the Federal Government."

Again, if the expression "or any other person in the United States" be construed to mean "or any other person in the United States in the prosecution of any work, either governmental or private" the general public would appear to obtain greater rights in the inventions of the patents issued under the act than governmental officers and employees, since the latter would obtain merely the right to use the inventions "in the prosecution of work for the Government." It seems hardly conceivable that Congresss could have intended so to discriminate against the officers and employees of the Government.

It was clearly the intention of Congress to encourage the filing of applications under the act, so that such rights as defined above would be available to the Government. To construe the statute to mean that the invention would be dedicated to the public would defeat the very purpose for which the statute was enacted, since it would discourage rather than encourage the filing of applications under the act. That this would be the result cannot be denied, for we have tangible evidence to that effect in your statement:

There are also many cases in which employees of the Government have declined to make applications for patents under this statute because of the doubt as to its proper interpretation and the possibility of a dedication of the invention to the public.

Such an attitude on the part of inventors as you mention in your communication is not to be wondered at, for if in filing applications under the act

in question the inventor effects a dedication of practically all his rights therein to the public he loses all to which he otherwise would be entitled and receives nothing in return. Surely it is no serious consideration that he is relieved of the payment of the usual Patent Office fees. Were he not, he would be in the anomalous situation of dedicating his rights to the public and paying for the privilege of doing so.

Respectfully,

(Sgd.) C. B. AMES,
Acting Attorney-General.

The Secretary of War, Washington, D. C.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DAY *v.* BOWER.

Decided March 1, 1920.

1. PATENTS—INTERFERENCE — ISSUE CONSTRUED — VEHICLE-GOVERNING MEANS.
In traffic-controlling systems danger-signals operated on a vehicle considered as "vehicle-governing means" in view of the admissions of the opposing party.

2. SAME—SAME—RIGHT TO MAKE CLAIMS.
Where in an interference between B. and D., relating to traffic-controlling systems, certain counts called for vehicle-controlling means having a retarding condition, B. disclosed only signals, *Held* that he had no right to make such claims, and priority awarded to D.

Mr. G. E. Crusc and *Mr. J. Edgar Bull* for the appellant.

Mr. J. A. Watson for the appellee.

PATENT appeals No. 1,280 and 1,281.

ROBB, *J.:*

These interferences involve the same application of each party. The Examiner of Interferences awarded priority as to all counts in each interference to Day. The Examiners-in-Chief and the Commissioner sustained the decision as to counts 1 to 6, inclusive, and to count 14, in the first interference, and as to counts 1, 2, 3 and 4 in the second interference, but as to counts 7 to 13, inclusive, and counts 15, 16 and 17 in the first interference, and counts 5, 6, 7, 8 and 9 in the second interference, reversed the decision and awarded priority to Bower. Bower has taken no appeal, and consequently we are concerned with only those counts awarded to him.

Count 7 of the first interference and count 5 of the second interference, are sufficiently illustrative and are here reproduced.

7. In combination, a railway track, a vehicle adapted to travel thereon, means on the vehicle driven in accordance with the movement of the vehicle along the trackway and capable of an operative condition toward which it is constantly driven, devices located at intervals in the trackway and adapted to coact with the said means to reset it away from said operative condition, a vehicle governing apparatus on the vehicle controlled by the said means, when the latter reaches said operative condition.

5. In combination, a railway vehicle, apparatus on the vehicle capable of an inoperative condition and adapted to automatically change its condition by degrees progressively approaching the operative condition and to govern the vehicle when said operative condition is reached, and means extraneous to the vehicle adapted to restore said apparatus from any position or degree of said progressive change to a condition or degree more remote from operative condition, said apparatus being adapted to automatically resume the progressive change toward operative condition after each restoration.

Day relies solely upon his record date of July 10, 1911. Bower has taken testimony tending to show that he conceived the invention in 1909, but it will be unnecessary to review that testimony here, since the case turns upon the interpretation to be given the claims. The Examiner of Interferences failed to make any distinction between the two groups of claims, but the higher tribunals ruled that the first group, which as we have seen were awarded Day, call for a system in which the operation of the vehicle is automatically or mechanically controlled by the action of the run-down device, and that the claims of the other group do not contain this limitation. This conclusion was based largely upon the Day specification, in which it is pointed out that such expressions as "means for governing the vehicle" and "the traffic controlling means" include such devices as lamps, bells and whistles, as well as devices which operate the brakes and the power. On this point the Commissioner said:

The record discloses a sufficiency of admission by Day that danger signals operated on a vehicle should be considered as vehicle governing means.

We have examined the Day specification and concur in this view. For the reasons pointed out in the opinions of the Examiners-in-Chief and the Commissioner, we affirm the decision of the Commissioner in each interference.

No. 1,280 affirmed.

No. 1,281 affirmed.

Court of Appeals of the District of Columbia.

DE FOREST *v.* RICHARDS.

Decided March 1, 1920.

PATENTS—INTERFERENCE—ORIGINALITY.
Evidence considered and *Held* that Richards derived the invention from De Forest.

Mr. Samuel E. Darby and *Mr. Samuel E. Darby, Jr.*, for the appellant.

Mr. D. C. Tanner, Mr. J. G. Roberts, and *Mr. W. E. Beatty* for the appellee.

ROBB, *J.:*

This is an appeal from the decision of an Assistant Commissioner of Patents awarding priority to Richards.

De Forest, in 1907 and 1908, was granted patents on relays of the gaseous type, known in the art as audions. The invention in issue is an improvement on an audion, and is thus described by the Examiner of Interferences:

It is an improvement on the so-called "audion" which comprises a receptacle from which substantially all gases have been removed, having therein a terminal or electrode adapted to be heated from some external source, and two cold electrodes located at relatively different distances from the hot electrode. It is unnecessary to describe the structure in detail. It is sufficient to say that under working conditions the instrument may become inoperative because of what are probably static charges upon certain of the terminals. This condition was usually indicated by a so-called "blue glow" visible between the electrodes, although under certain conditions the phenomenon seems not to be visible. In order to overcome this condition the two electrodes have been connected by a high resistance or so-called leak path, so that the charges on the electrodes may neutralize each other. It is this high resistance connection that constitutes the gist of this invention.

The invention is comprised in nine counts, of which the third and sixth are illustrative and are here reproduced.

3. An electric relay comprising an evacuated vessel, a heated member, a conducting member and a conducting plate sealed therein, an incoming circuit connected across said heated member and said conducting member, an outgoing circuit connected across said heated member and said conducting plate, and an additional metallic circuit connecting said conducting member and said plate.

6. In an electric relay, the combination with an audion, of a circuit including a resistance in shunt of two of the elements of said audion.

It will be observed that these are broad claims. As stated by the Assistant Commissioner, the invention—

might perhaps be better called a discovery that the paralysis of an audion may be removed by discharging certain charges on the terminals.

We now will turn to the evidence. De Forest, a pioneer in this art, after producing the audion covered by his patents subjected it to numerous tests which, it is conclusively established, demonstrated that under certain conditions, the audion becomes inoperative. Several witnesses, including witnesses for Richards who were present and participated in those tests, corroborate De Forest on this question, and from their testimony it conclusively appears that long prior to Richards's entry into the field De Forest not only recognized the difficulty giving rise to the invention of the issue but suggested various means to overcome it, which means accomplished the purpose. The paralyzed condition of the audion usually was neutralized by touching the terminals with the thumb and finger, thereby permitting the discharges to neutralize each other through this high resistance connection. Liquid resistance, wet strings, gum and a carborundum rod also were used.

In October of 1912 De Forest demonstrated his audion to the Western Electric Company, and Richards, one of its engineers, was present during the demonstration. He knew practically little about the art at that time. However, he claims that the invention in issue occurred to him during this demonstration, while De Forest insists that he, De Forest, then suggested and—

pointed out and illustrated that this last condition (paralyzed condition) could be instantly corrected by touching the thumb and fingers across the grid and filament of plate binding posts on the audion instrument.

We agree with the Examiner of Interferences that the testimony and surrounding circumstances overwhelmingly sustain De Forest on this point. It is utterly inconceivable that this man who was the originator of the audion, who previously had subjected it to tests, who had discovered that under certain conditions it would become inoperative, and who also had discovered how that condition might be overcome, would have failed to impart his knowledge under the circumstances disclosed. That the information he gave Richards amounted to a complete disclosure of this invention is beyond question. Of this information De Forest says in his testimony:

This illustration was, of course, all that was necessary to show to a skilled engineer that a high resistance leakage path between the two audion electrodes would remedy or tend to remedy a condition of "paralysis" due to too large a negative charge coming on the grid.

One of Richards's witnesses was asked on cross examination what suggested to him the idea of permanently connecting a resistance between the electrodes of the audion, and answered:

The fact that a temporary resistance would discharge the audion.

In other words, the various expedients resorted to by De Forest long prior to Richards's entry into the field clearly suggested the device of the issue. As already noted, the claims are broad and general and it is not now permissible to meet the exigencies of the case by giving them a narrower interpretation. (*Geltz* v. *Crozier*, 32 App. D. C., 324; *Leonard* v. *Horton*, 40 App. D. C., 22; *Kirby* v. *Clements*, 44 App. D. C., 12; *Monte* v. *Dunkley*, 46 App. D. C., 70.) We rule, therefore, that De Forest and not Richards was the inventor of the subject matter of the counts, and accordingly reverse the decision of the Patent Office.

Reversed.

Mr. Chief Justice SMYTH dissents.

Court of Appeals of the District of Columbia.

SHENK AND HOLMAN *v.* CLARK.

Decided March 1, 1920.

PATENTS—INTERFERENCE—RIGHT TO MAKE CLAIM.
The Commissioner's ruling that Clark has a right to make the claim in issue reviewed and affirmed.

Mr. J. M. Spear and *Mr. Ellis Spear, Jr.*, for the appellants.

Mr. C. E. Brock for the appellee.

ROBB, *J.:*

Appeal from a decision of the Patent Office (274 O. G., 405) in an interference proceeding awarding priority of invention to the senior party Clark.

The invention relates to a glass light-transmitter in an automobile-headlight and is expressed in a single count as follows:

A refractive screen for use with a headlight having a reflector comprising surfaces of variant vertical distributive dispersion and surfaces of variant lateral distributive dispersion at and beyond the intercept of the roadway.

Shenk's contention here, as below, is that Clark has no right to make the claim. The Law Examiner, the Examiners-in-Chief and the Assistant Commissioner have carefully considered this question and in separate opinions have found in Clark's application a complete disclosure of the subject-matter of this claim. We have considered the very-carefully-prepared brief of appellant's counsel but have not been convinced that any error was committed by the Patent Office, and, therefore, without further discussion of the question involved, affirm the decision.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. R. I.) The Wardwell patent, No. 649,021, for improvements in knitting-machines, claims 20–32, inclusive, *Held* invalid and, if valid, not infringed, and claim 36 *Held* invalid. *Scott & Williams* v. *Hemphill Mfg. Co.*, 262 Fed. Rep., 968.

(U. S. C. C. A. Ill.) The Lockwood patent, No. 929,678, for an improvement in apparatus for exhibiting moving pictures, consisting of a rotary fan for ventilating the moving-picture cabinet when in use, to prevent the film from being subjected to excessive heat, *Held* invalid. *De Vry Corporation* v. *Acme Motion Picture Projector Co.*, 262 Fed. Rep., 970.

(U. S. C. C. A. Ohio.) The Callahan patent, No. 948,719, for an apparatus for distributing wet concrete, consisting of an elevating-tower and devices for spreading same over structure, *Held* valid and infringed. *Concrete Appliances Co.* v. *Meinken*, 262 Fed. Rep., 958.

(U. S. C. C. A. Ohio.) The Smith patent, No. 948,746, for an apparatus for distributing wet concrete, *Held* invalid. *Concrete Appliances Co.* v. *Meinken*, 262 Fed. Rep., 958.

(U. S. C. C. A. Ill.) The Higginson and Arundel patent, No. 1,067,814, for vacuum suction devices for raising gasolene in an automobile from a main tank below the level of the carbureter to a secondary tank, *Held* not infringed. *Jay* v. *Weinberg*, 262 Fed. Rep., 973.

(U. S. C. C. A. N. Y.) The Burgess patent, No. 1,084,926, for an electric hand-lamp, claim 4, *Held* invalid. *Burgess Battery Co.* v. *Novo Mfg. Co.*, 262 Fed. Rep., 972

(U. S. C. C. A. Ill.) The Jay patent, No. 1,132,273, for vacuum suction devices for raising gasolene in an automobile from a main tank below the level of the carbureter to a secondary tank. *Held* not infringed. *Jay* v. *Weinberg*, 262 Fed. Rep., 973.

(U. S. C. C. A. Ill.) The Jay patent, No. 1,134,457, for vacuum suction devices for raising gasolene in an automobile from a main tank below the level of the carbureter to a secondary tank, *Held* not infringed. *Jay* v. *Weinberg*, 262 Fed. Rep., 973.

Adverse Decisions in Interference.

PATENT NO. 1,096,238.

On April 9, 1920, decisions were rendered that Julius Graber was not the first inventor of the subject-matter covered by claims 1, 2, 3, 6, 11, 12, 13, 16, 21, and 24 of his Patent No. 1,096,238, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,117,200.

On April 9, 1920, decisions were rendered that Willard Le Grand Bundy was not the first inventor of the subject-matter covered by claims 24 and 48 of his Patent No. 1,117,200, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,143,447.

On April 9, 1920, decisions were rendered that Daniel W. Shiek was not the first inventor of the subject-matter covered by claims 2, 11, 12, and 17 of his Patent No. 1,143,447, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,243,669.

On April 9, 1920, a decision was rendered that Richard M. Becker was not the first inventor of the subject-matter covered by claim 6 of his Patent No. 1,243,669, subject, "Calculating-machines" and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,312,333.

On April 8, 1920, a decision was rendered that Simon Lebow was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, and 5 of his Patent No. 1,312,333, subject, "Pipe-blister-removing devices," and no appeal having been taken within the time allowed such decision has become final.

Patents Nos. 1,3 40,139 to 1,340,867.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 274—No. 3. TUESDAY, MAY 18, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page
ISSUE OF MAY 18, 1920	411
ATTORNEYS	411
ADVERSE DECISIONS IN INTERFERENCE	411
DISCLAIMER	411
ASSISTANT EXAMINERS WANTED	411
APPLICATIONS UNDER EXAMINATION	412
PATENTS GRANTED	413
REISSUES	549
DESIGNS	550
TRADE-MARKS—REGISTRATION APPLIED FOR	567
TRADE-MARK REGISTRATIONS GRANTED	601
TRADE-MARK REGISTRATIONS RENEWED	611
LABELS	612
DECISIONS OF THE U. S. COURTS—	
Brown v. Tomlinson	613
Doyle and Hedley v. Tomlinson	613
Beckwith v. Commissioner of Patents	613
ADJUDICATED PATENTS	617
INTERFERENCE NOTICES	617
CHANGES IN CLASSIFICATION	617

Issue of May 18, 1920.

Patents	729—No.	1,340,139 to No.	1,340,867, inclusive.
Designs	84—No.	55,144 to No.	55,227, inclusive.
Trade-Marks	293—No.	131,392 to No.	131,684, inclusive.
Labels	1—No.	21,869.	
Reissues	5—No.	14,857 to No.	14,861, inclusive.
Total	1112		

Attorneys.

(ORDER NO. 2,571.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 6, 1920.

In accordance with the decision of the Assistant Secretary of the Interior of May 4, 1920, Order No. 1,752, disbarring Mr. Solomon S. Sugar, of New York, from practising before the United States Patent Office, is hereby revoked and he is restored to practice before this Office from May 4, 1920, under his former No. 2,068.

J. T. NEWTON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,243,499.

On April 17, 1920, a decision was rendered that William D. Ferris was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,243,499, subject, "Door-hanger," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,306,562.

On April 12, 1920, a decision was rendered that Robert F. Scabzi was not the first inventor of the subject-matter covered by claims 1, 2, 3, and 4 of his Patent No. 1,306,562, subject, "Radius-rod," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,194,353.

On April 5, 1920, a decision was rendered by the Court of Appeals of the District of Columbia that Thomas R. Brown was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,194,353, subject, "Car and electric coupling."

PATENT NO. 1,216,294.

On April 5, 1920, a decision was rendered by the Court of Appeals of the District of Columbia that James S. Doyle and Frank Hedley were not the first inventors of the subject-matter covered by claims 9 and 15 of their Patent No. 1,216,294, subject, "Electric couplings."

PATENT NO. 1,192,301.

On April 5, 1920, a decision was rendered by the Court of Appeals of the District of Columbia that Albert D. Grover and Earl E. Barber were not the first inventors of the subject-matter covered by claims 5, 6, 8, and 9 of their Patent No. 1,192,301, subject, "Washer-catching device for coin-controlled vending-machines."

PATENT NO. 1,143,447.

On April 12, 1920, a decision was rendered that Daniel W. Shiek was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,143,447, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,315,342.

On March 29, 1920, a decision was rendered that Eliel L. Sharpneck was not the first inventor of the subject-matter covered by claims 1 and 3 of his Patent No. 1,315,342, subject, "Plastic composition," and no appeal having been taken within the time allowed such decision has become final.

Disclaimer.

836,475.—*Henry W. Watson* and *William W. Watson*, Jamestown, N. Y. METAL SCREEN. Patent dated November 20, 1906. Disclaimer filed April 30, 1920, by the patentees.

Enter this disclaimer—

"To claims 1 and 2 in the said specification of said Letters Patent, which are in the following words, to wit:

"1. In a metal screen, a frame, the side and end pieces of said frame each consisting of a solid tube, a channel along said tube, screen-wire, and a locking means to hold said wire in said channel.

"2. In a metal screen, a frame, the side and end pieces of said frame each composed of strips of bendable sheet metal formed in a brazed tube, a channel along said tube, screen-wire, and a locking-strip to hold said wire in said channel."

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business May 8, 1920

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Jan. 26	Jan. 15	365
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 27	Dec. 10	935
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	433
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 10	Mar. 24	1,101
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 10	Jan. 28	313
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 9	Feb. 22	454
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 19	Mar. 4	788
121	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 6	Apr. 1	338
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Dec. 16	Jan. 2	445
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Dec. 2	Jan. 16	973
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Jan. 20	Feb. 2	681
222	12. Machine Elements	Sept. 5	Mar. 3	1,165
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 8	Mar. 13	1,120
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 14	Jan. 28	531
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 26	Mar. 1	1,033
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 29	Nov. 1	861
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 14	Mar. 12	248
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 17	Dec. 1	894
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Nov. 19	575
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 6	Jan. 20	686
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 7	Mar. 18	374
249	22. Aeronautics; Firearms; Ordnance	Feb. 13	Feb. 21	234
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 10	Feb. 14	575
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 17	Feb. 26	533
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 12	Mar. 18	192
105	26. Electricity, Generation: Motive Power; Prime Mover Dynamo Plants	Sept. 13	Sept. 18	709
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 10	Mar. 5	545
225	28. Internal-Combustion Engines	Jan. 12	Feb. 14	622
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Aug. 28	Mar. 29	630
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 1	Mar. 31	987
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 4	Nov. 3	958
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 2	Jan. 19	1,128
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 3	Jan. 31	455
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Apr. 19	Apr. 5	113
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 24	Apr. 12	434
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 9	Jan. 16	1,125
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 17	Dec. 5	1,267
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Feb. 24	565
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 6	Oct. 8	1,007
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 6	Feb. 11	735
125	41. Resilient Tires and Wheels	Oct. 27	Feb. 21	794
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Nov. 11	Dec. 22	959
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 7	Feb. 10	788
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Dec. 18	Feb. 27	273
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Nov. 22	Jan. 6	741
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway- Brakes; Wooden Buildings.	Oct. 17	Dec. 18	745
	Oldest new case, Aug. 28; oldest amended, Oct. 8.			
	Total number of applications awaiting action			31,427
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 30	Feb. 1	2,752
	Designs	Oct. 22	Dec. 11	1,012
	Labels and Prints	Jan. 2	Feb. 2	901

PATENTS

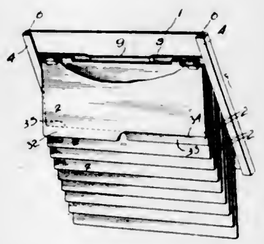
GRANTED MAY 18, 1920.

1,340,139. PUSH-BUTTON. STANLEY ANTHONY, Boston, Mass. Filed Aug. 21, 1915. Serial No. 46,646. Renewed Nov. 13, 1918. Serial No. 262,400. 6 Claims. (Cl. 200—159.)



2. A push button, comprising contact springs normally under tension tending to move their free ends toward each other, a plunger movable toward and away from said springs, a contact member carried by said plunger and constructed to engage and spread apart the free ends of said springs, and a separator also carried by the plunger and acting normally to hold the free ends of said springs apart, said separator comprising a piece of insulating material secured to the plunger and having slots through which said springs, respectively, extend.

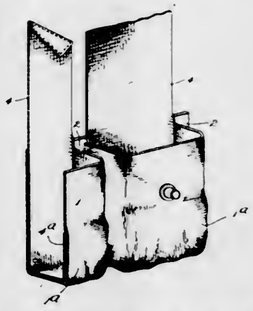
1,340,140. CARD-INDEX. STANLEY ANTHONY, Boston, Mass. Filed March 19, 1919. Serial No. 283,577. 7 Claims. (Cl. 129—16.)



3. In an index, the combination with a frame, of a plurality of card holders removably sustained thereby, each holder having provision to engage detachably two cards either of which can be removed from the holder without disturbing the other card.

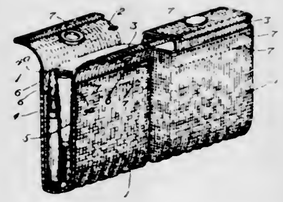
6. A holder or carrier for cards of a card index system, said holder being made of a strip of metal and provided with means to support detachably a card, the central portion of said holder being offset to the front of the plane of the body thereof.

1,340,141. POCKETED CARRIER. FRANK R. BATCHELDER, Worcester, Mass. Filed Sept. 25, 1918. Serial No. 255,563. 4 Claims. (Cl. 224—23.)



1. A lined woven carrier-pocket having the portion thereof which is occupied by the upturn of the lining relatively larger horizontally than the portion not thus occupied.

1,340,142. POCKETED CARRIER. FRANK R. BATCHELDER, Worcester, Mass. Filed Sept. 25, 1918. Serial No. 255,564. 1 Claim. (Cl. 224—23.)

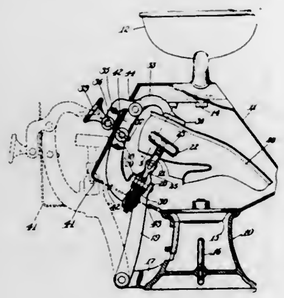


A pocketed carrier provided with an applied cover-flap, and having the wall on which said cover-flap is mounted woven of reduced thickness in the portion upon which the attaching end-portion of the cover-flap is overlapped, and with a shoulder against which the terminal edge of said end-portion is butted.

1,340,143. WORK-SUPPORT. ARTHUR BATES, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 21, 1915. Serial No. 29,602. 30 Claims. (Cl. 12—1.)

1. That improvement in processes of manufacturing shoes which consists in subjecting the entire shoe, while on the last, to the action of moisture while simultaneously holding the rear portions of the shoe in proper position on the last.

21. An apparatus of the character described comprising means forming a vapor treating chamber having an opening for ingress and egress of a shoe, movable means con-



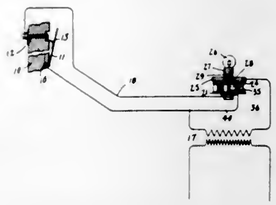
structed and arranged to clamp and support a shoe, and means arranged to guide said clamping means through said opening to transfer the shoe to and from treating position in the chamber.

1,340,144. BOILER-TUBE AND COMBUSTION-CHAMBER CLEANER. JAMES BENNETT, Cleveland, Ohio. Filed Feb. 28, 1916. Serial No. 80,829. 5 Claims. (Cl. 122—391.)

2. The method of projecting the soot and ashes deposited in the tubes and rear combustion chamber of a horizontal tubular boiler through some tubes into the smoke box; thence through other tubes into the smoke stack, consisting in projecting a horizontally extended row of dry steam jets horizontally through some of the tubes of the boiler against the rear wall of said combustion chamber, to loosen and agitate the soot and light ashes, in the said combustion chamber, and simultaneously therewith projecting other horizontally extended steam jets vertically from in front of the boiler into the smoke stack, to complete a circulation of steam, carrying said soot and ashes in a state of suspension back through the upper flues of the boiler, and vertically into said smoke stack, said horizontally extended rows of jets being arranged respectively adjacent to the top and bottom of said boiler.

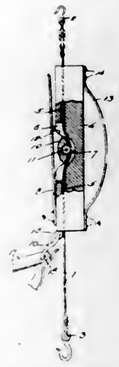
1,340,145. INDICATING DEVICE. FRANK P. BLAIR, Toledo, and CHESTER L. DOWS and GEORGE S. MERRILL, Cleveland, Ohio; said Dows assignor to said Blair and Merrill. Filed July 24, 1919. Serial No. 312,888. 9 Claims. (Cl. 40—132.)

1. The combination of a rack comprising a plurality of receptacles for cards, a plurality of electrically operated indicators each corresponding to a receptacle and means whereby the insertion in or removal from the said rack of



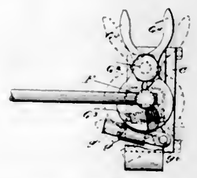
a card effect a change in the electrical supply circuit of a corresponding indicator.

1,340,146. PORTABLE FIRE-ESCAPE. GEORGE A. BLAKE, Storrs, Conn. Filed Sept. 19, 1917. Serial No. 192,159. 1 Claim. (Cl. 227—25.)



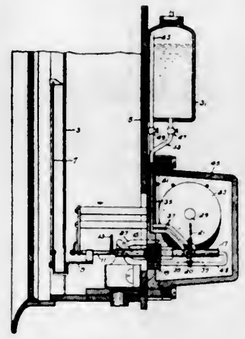
A fire escape comprising a body member provided with a longitudinal channel and a seat in the medial portion of said channel, an opening in the block opposite to said seat, a spring handle mounted on said body portion and carrying a lug extending through said opening toward said seat, a strand movable through said channel, said lug adapted to compress said strand against said seat, and a hand guard carried by said body portion confining the hand over said lug.

1,340,147. PIPE-HOLDING VISE. ERNEST J. BEISBEN, Cleveland, Ohio. Filed Dec. 2, 1914. Serial No. 875,054. Renewed Dec. 3, 1919. Serial No. 342,305. 2 Claims. (Cl. 81—36.)



2. In a pipe holding vise, in combination, a casing having an elongated central opening and a transverse opening in its walls, a spacing block in said casing, duplicate pairs of spaced jaws secured to the spacing block and to said casing, one pair upon each side of said block, a rib upon said spacing block extending between the jaws in each pair, means for detachably securing said pairs of jaws and spacing block together and to the casing, and an opposed jaw movable between said pairs of jaws.

1,340,148. MEASURING INSTRUMENT. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Original application filed Mar. 3, 1913, Serial No. 751,729. Divided and this application filed Jan. 19, 1918. Serial No. 212,556. 5 Claims. (Cl. 73—110.)



1. In a device of the class described, the combination of an index; responsive means for controlling the same; a chamber containing said responsive means; means for transmitting movement from said responsive means to said index including an elongated shaft and bearing; connections from said responsive means to said shaft; oil supply means opening to the exterior of said chamber arranged to supply oil to said shaft at points on opposite sides of the point of connection of said connections with said shaft; and means for maintaining the same pressures in said chamber and in said oil supply means.

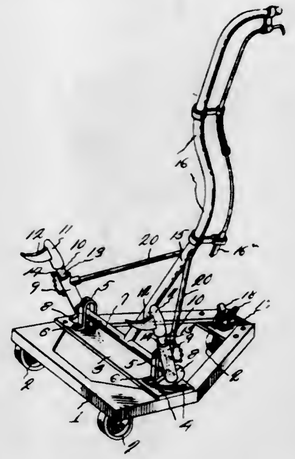
1,340,149. MANUFACTURE OF STEEL SHEETS. VERE B. BROWNE, Tarentum, Pa. Filed June 9, 1919. Serial No. 302,913. 18 Claims. (Cl. 29—18.)



13. The method of hot rolling a sheet of steel to 3/1000 of an inch or less in thickness, which consists in producing a relatively thin sheet, placing said sheet between two metal sheets of materially heavier gage and different characteristics raised to rolling temperature and then in hot rolling the multiple pack, substantially as described.

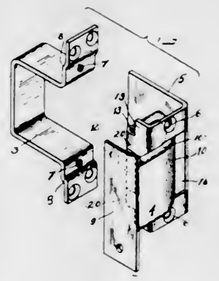
1,340,150. VEHICLE-JACK. DANIEL BRUHN, Hammond, Ind. Filed July 10, 1919. Serial No. 309,977. 7 Claims. (Cl. 254—8.)

1. A vehicle jack comprising a wheeled base, said base having rockably mounted in vertical bearings thereon a rockable bar, a handle member carried by said rockable bar, the outer ends of said rockable bar being provided with axle engaging arms and cams adapted to engage the



wheeled base, whereby as the handle is forced downwardly to rock the rockable bar said cams will move the rockable bar upwardly in the vertical bearings thereby raising the axle.

1,340,151. HINGE. EDWARD D. BUMP, Cleveland, Ohio, assignor to The Bettcher Stamping and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 11, 1919. Serial No. 323,187. 5 Claims. (Cl. 16—5.)

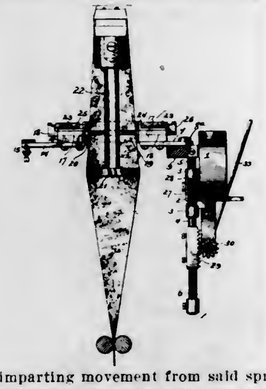


1. A hinge device comprising a yoke portion and a pair of hinge members, said yoke portion being open at the face and sides thereof, one of said hinge members adapted to be secured to said yoke portion and close the face and a side thereof and the other of said hinge members adapted to close the other side when the hinge is in the closed position.

1,340,152. STOP MECHANISM. ROY L. CAMPBELL, Altonpark, Tenn., assignor of one-half to J. W. Cummings, Altonpark, Tenn. Filed May 5, 1919. Serial No. 294,950. 11 Claims. (Cl. 66—7.)

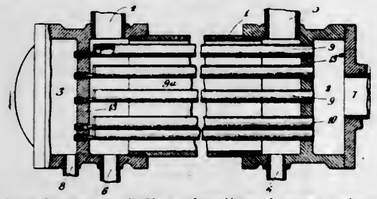
7. In stop mechanism, the combination with a spring-sustained member and an annular frame carried thereby and having an opening for a knitted tube, of an annular

series of spring-pressed finders carried by said annular frame and projecting thereinto, a shifting member, and



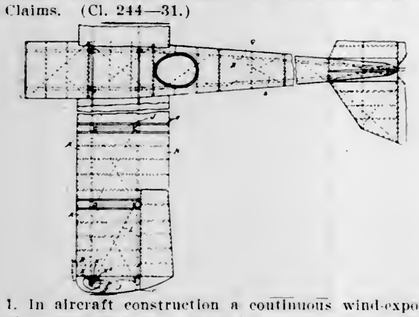
means for imparting movement from said spring-sustained member and annular frame to said shifting member.

1,340,153. HEATER. ADDISON A. CARDWELL, New York, N. Y., assignor to Pratt & Cady Company, Incorporated, Hartford, Conn., a Corporation. Filed Feb. 11, 1919. Serial No. 276,429. 4 Claims. (Cl. 257—236.)



2. In a heater, a shell, a plurality of steam tubes passing through the inclosure of said shell, the discharge ends of said steam tubes being of reducted diameter relative to the diameter of the main portion of said tubes, said discharge ends passing through stuffing boxes in said shell, the bore in said discharge ends leaving the bore of the main portion of said tubes at a level substantially that of the bottom of the latter.

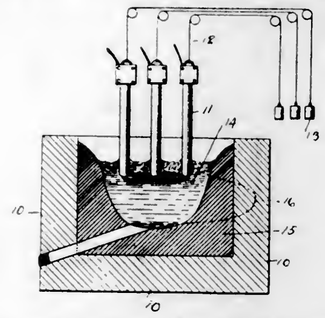
1,340,154. AIRCRAFT. EDMUND B. CARNS, Detroit, Mich. Filed June 3, 1918. Serial No. 237,893. 25 Claims. (Cl. 244—31.)



1. In aircraft construction a continuous wind-exposed surface, comprising a series of complementary sections and a frame on which said sections are mounted with freedom for independent movement longitudinally of the frame.

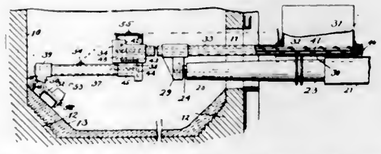
1,340,155. PROCESS OF CONTROLLING THE THICKNESS OF WALLS IN AN ELECTRIC FURNACE. CHARLES H. CHAPMAN, Niagara Falls, N. Y., assignor to General Abrasive Company, Inc., Niagara Falls, N. Y., a Corporation of New York. Filed February 20, 1917. Serial No. 149,948. 2 Claims. (Cl. 204—64.)

1. An improved method of constructing furnace walls, which consists in first melting and then cooling a portion of the charge whereby the cooled portion forms a solid continuous homogeneous crystalline heat-resisting wall



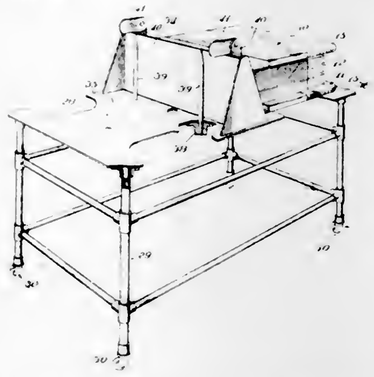
about the center portion which provides a receptacle for the molten mass.

1,340,156. SLAGGING-MACHINE FOR FURNACES. EARL W. CLARK, Sharon, Pa., and FRANK C. CLARKE, near Sharon, Pa. Filed Nov. 15, 1917. Serial No. 202,118. 24 Claims. (Cl. 214—31.)



1. In a machine for making up the banks of a furnace, a pair of connected members adapted to be inserted into the charging door of a furnace, and including a distributing member supported by and movable laterally with respect to the other member, and means for supporting said members so that they may be raised and lowered relative to the furnace and fixedly held for operation in any adjusted position and may be moved into and withdrawn from the furnace.

1,340,157. LEDGER. JAMES C. DAWSON, Webster Groves, Mo. Filed May 5, 1919. Serial No. 294,769. 19 Claims. (Cl. 129—8.)



1. A loose leaf appliance comprising, in combination, separate front and back covers, filing posts carried by the back cover, means for detachably connecting the front cover with the said filing posts, and a second set of filing posts detachably engageable with the front cover when the said front cover has been disconnected from the filing posts of the first mentioned set.

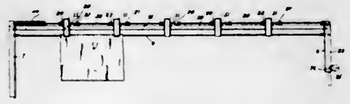
19. A loose leaf appliance comprising in combination, a table, an unright partition centrally dividing the table, a set of filing posts mounted in the table adjacent the partition at one side of the same and extending substantially to the level of the top of the partition and a sheet guiding flange extending vertically over the other side of the partition and horizontally over the top of the partijon toward the plane of the said filing posts.

1,340,158. EXHAUST-MUFFLER. SOPHIA E. DELAVAN, Chicago, Ill., assignor to El Dorado Jones, New York, N. Y. Filed Nov. 19, 1917. Serial No. 202,682. Renewed June 26, 1919. Serial No. 307,044. 6 Claims. (Cl. 137—160.)



1. In a gas engine exhaust muffler, the combination of an inclosing casing having inlet and outlet openings at its respective ends, a pair of spiral bladed wheels arranged transversely in said casing in spaced relation to provide an intermediate damping chamber, and centrally disposed deflectors individual to said wheels and adapted to deflect passing gaseous products toward the perimeters of said wheels, substantially as set forth.

1,340,159. LOCKING-CLOTHESPIN. WILLIAM R. DEER, New York, N. Y., assignor of one-half to William J. Lillie, New York, N. Y. Filed June 7, 1919. Serial No. 302,427. 3 Claims. (Cl. 68—3.)



1. In a clothes locking device of the class described, a suitable support; a plurality of clothes pins each comprising two coöperating clasping jaws one of which is secured to said support, and which jaws are pivotally connected together; a spring acting to close said jaws; locking wedges adapted to lock said jaws closed; means whereby said locking wedges may be adjusted relative to one another; and means for operating said locking wedges in unison.

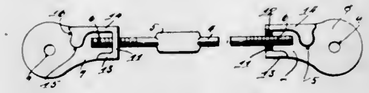
1,340,160. DOLL. MICHAEL JOHN DUFF, Bridgeport, Conn., assignor to The Moo-V Doll Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 30, 1919. Serial No. 314,195. 2 Claims. (Cl. 46—40.)

1. A device of the character described comprising a body portion having a display opening therein, and a head provided about its peripheral surface with markings in simulation of facial features, said head being movable



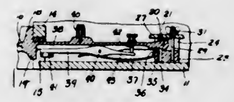
with respect to the body to position said facial features in selective groups within the confines of the display opening.

1,340,161. SCREEN-DOOR BRACE. CLOA A. ELLIOTT, Marion, Ind. Filed Feb. 28, 1919. Serial No. 279,665. 2 Claims. (Cl. 20—38.)



2. In a device of the class described, the combination with a rod provided with threaded ends, of caps upon said threaded ends, each cap comprising a flat body having near its outer end an aperture, and with a transverse flange on its inner end, said transverse flange terminating in a short inner flange and in a comparatively long outer flange, and said outer flange provided at its inner end with an inner-extending nose between the aperture in the flattened end and the flange at the inner end of the cap.

1,340,162. PIANO-PEDAL. JOHN GIGLIO, New York, N. Y. Filed Feb. 28, 1919. Serial No. 279,705. 7 Claims. (Cl. 84—24.)

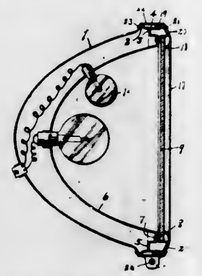


1. In a piano, a pedal, a bearing member, the inner end portion of the pedal being rotatably mounted in the bearing member, a spring mounted in the bearing member and operating in connection with the protruding portion of the pedal, means for retaining the inner end portion of the pedal within the bearing member, and a lever pivotally and adjustably mounted in the bottom central portion of the pedal and arranged longitudinally thereof.

1,340,163. LAMP. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmund & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Apr. 29, 1919. Serial No. 293,397. 3 Claims. (Cl. 240—41.)

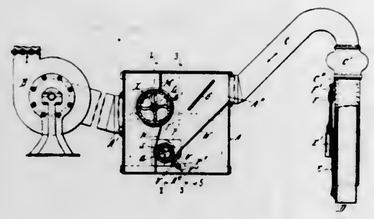
1. The combination of a lamp body having a cylindrical open end and with a circumferential shoulder adjacent the open end, a lens to close the open end, a resilient metal lens ring arched in cross section and having its inner edge engaging the lens and its outer edge cylindrical, said cylindrical portion of the lens ring being of less width than the cylindrical end of the lamp body, and a locking band having a cylindrical body adapted to lie around the cylin-

drical edge of the lens ring and also having inwardly extending outwardly inclined flanges at its edges to engage



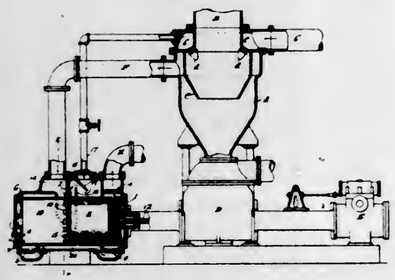
the front of the lens ring and the rear of said shoulder on the body and force the lens ring and body toward each other.

1,340,164. DISCHARGE DEVICE FOR COTTON-SEED UNLOADERS. CHARLES H. GOLLOHER, Bellville, Tex. Filed Oct. 7, 1915. Serial No. 54,492. 3 Claims. (Cl. 193—10.)



1. In a device of the class described, a casing having an inlet and an outlet for the material to be conveyed, a rotary discharge roll at said outlet, a pressure gate located adjacent to said roll and urged toward the same, and stationary stop means for preventing the gate from coming in contact with said rotary discharge roll.

1,340,165. CONDENSER SYSTEM AND VACUUM-PUMP. JOHN F. GRACE, Kearney, N. J., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed May 26, 1919. Serial No. 299,820. 11 Claims. (Cl. 103—79.)



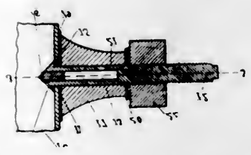
8. In a condensing system, the combination with the condenser, of a pump having its cylinder provided with a valveless air and water inlet, a piston adapted to uncover said inlet on its movement in one direction and close the inlet on its stroke in the opposite direction, whereby one end of the cylinder forms the inlet end, a valved discharge at the opposite end of the cylinder, and a transfer passage connecting the inlet end of the cylinder with the discharge end.

1,340,166. METHOD OF MAKING SPOKE-NIPPLES. JAMES H. GRAHAM, Torrington, Conn., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Aug. 27, 1917. Serial No. 188,433. 1 Claim. (Cl. 29—148.)



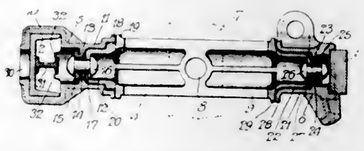
The process of forming a spoke nipple from a blank having an angular cross section substantially equal to the minimum angular cross section of the finished nipple consisting in maintaining substantially the original size and shape of a portion of said blank, while causing the residue of metal of said blank to flow outwardly and longitudinally thereof to form cylindrical and head portions of greater diameter than said blank.

1,340,167. REPAIR-PLUG FOR PIPES. GEORGE T. HARVEY, Halstead, Kans. Filed July 18, 1919. Serial No. 311,698. 3 Claims. (Cl. 137—99.)



1. A repair device for a pipe consisting of an expansible and contractible stem, a wedge member removably disposed in the stem, and means on the stem for moving the wedge member to expand the stem.

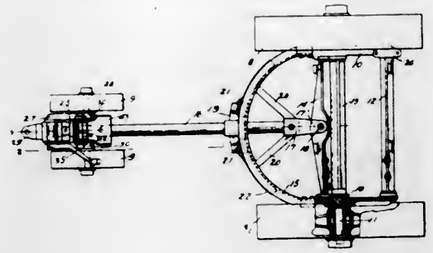
1,340,168. BRAKE-BEAM STRUT. CHARLES F. HUNTOON, Chicago, Ill. Filed Aug. 18, 1919. Serial No. 318,144. 4 Claims. (Cl. 188—22.)



1. In a brake-beam, a pivotal strut and a fixed socketed bearing head therefor, said head having an annular bearing rib in its socket, and said strut being hollow and having a centrally apertured end wall, with an outwardly flanged ferrule-like member formed to embrace said rib in free turning relation thereto and a rivet in the aperture of said end wall whereby said ferrule is secured to said wall.

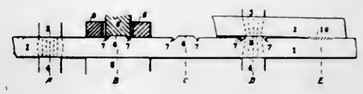
1,340,169. TRACTOR. JAMES JESSEN, Milwaukee, Wis., assignor to The Line Drive Tractor, Inc., Milwaukee, Wis., a Corporation of South Dakota. Filed Oct. 20, 1917. Serial No. 197,575. 5 Claims. (Cl. 180—52.)

1. In a tractor, the combination, with the front tractor wheels and main frame, of a rearwardly extending tongue pivotally secured to said frame, rear tongue supporting wheels, a member swingingly mounted upon the tongue, means for limiting the swinging movement of said member, a yoke secured to said member and carrying said wheels, and means for adjusting the position of said yoke



with respect to said member to vary the height of the rear end of the tongue from the ground.

1,340,170. METHOD OF JOINING METALS BY ELECTRIC WELDING. CHARLES H. KICKLIGHTER, Macon, Ga. Filed Oct. 27, 1919. Serial No. 333,611. 6 Claims. (Cl. 219—10.)



1. The method of fastening two metal plates together, face to face, which consists of softening a small portion or portions of one plate by the passage of electric heating current therethrough, of raising from said soft portion or portions an elevated surface or surfaces substantially flat with an adjacent depression or depressions thereabout by forcing a die upon said portion or portions, of bringing into contact with said elevated surface or surfaces the second plate, and by the application of pressure and heating electric current of welding the second plate to the elevated surface or surfaces and forcing the elevated metal into the adjacent depression or depressions from which it was raised so that the plates come into immediate contact.

1,340,171. CONNECTING-ROD. HEBRON BERNARD LAYMAN, New York, N. Y., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 26, 1918. Serial No. 224,758. 19 Claims. (Cl. 74—17.)



1. A sheet metal connecting rod shell, with an end portion of greater thickness than the shank portion.

1,340,172. CONNECTING-ROD. HEBRON BERNARD LAYMAN, New York, N. Y., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 26, 1918. Serial No. 224,759. 17 Claims. (Cl. 74—17.)



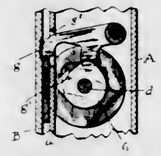
1. A sheet metal connecting rod shell with end portions of lesser thickness than the shank portion.

1,340,173. CONNECTING-ROD. HEBRON BERNARD LAYMAN, New York, N. Y., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 26, 1918. Serial No. 224,760. 11 Claims. (Cl. 74—17.)



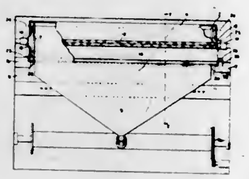
1. A sheet metal connecting rod shell, with a shank portion, the wall of which tapers in thickness from one end to the other.

1,340,174. COIN-CONTROLLED VENDING-MACHINE. WYLIE GEMMEL WILSON, New York, N. Y. Filed Feb. 7, 1916. Serial No. 76,526. 3 Claims. (Cl. 194—93.)



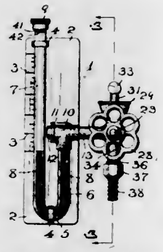
1. A vending machine of the class described, embodying a magazine, a rotary barrel coöperating therewith for receiving and dispensing articles from the magazine individually, a cam coöperating with said barrel and provided with a shoulder, a pivoted pawl normally in engagement with a high point of the cam and coin-controlled means for holding the pivoted pawl in released position and subsequently permitting it to assume its locked position.

1,340,175. MUSIC-ROLL. PHILIP S. MCLEAN, Bloomfield, N. J. Filed Aug. 22, 1918. Serial No. 250,916. 15 Claims. (Cl. 84—161.)



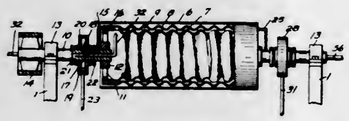
1. In combination, a music roll spool adapted to be supported by player mechanism, a box attached to said spool and providing a covering by which the roll may be handled in placing the roll in the player and removing it therefrom, said box being constructed to permit the engagement of the spool therein with the player mechanism and to permit the issuance of the music sheet therefrom when the spool is engaged with the player mechanism, and means for supporting said box wholly independently of its attachment to the spool when the spool is in place and supported by the player mechanism.

1,340,176. PIPE-TESTING AND LEAK-FINDING DEVICE. PHILIP MEYER, Newark, N. J. Filed Aug. 10, 1918. Serial No. 249,262. 10 Claims. (Cl. 137—77.)



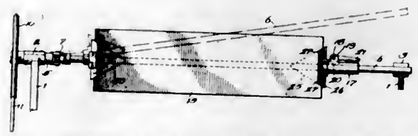
1. In a pipe-testing and leak-indicating device, a main plate, a pressure-indicating means mounted upon said plate, a T-shaped fitting connected with said indicating means, a fastening member upon said plate, a bolt for securing said fitting to said fastening member, combined with a gas-conveying means comprising a tubular body-member provided with means for its attachment to a line of piping, an inlet-member connected with said body-member for attachment thereto of means for forcing air under pressure into said body member, said body member being provided with a valve-seat, and a valve-stem connected with said body-member for closing said vale-seat, said body-member being provided with a receiving chamber located in front of said valve-seat and in communication with the tubular portion of said body-member back of said valve-seat.

1,340,177. PASTEURIZER. JOHN C. MILLER, Ludlow, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 9, 1915. Serial No. 44,414. 11 Claims. (Cl. 257—88.)



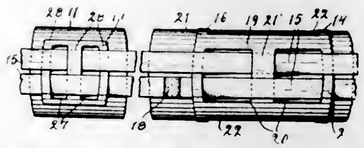
1. In a pasteurizing apparatus, a cylinder, with means for maintaining any desired temperature therefor, means for rotating the said cylinder at a high rate of speed, means for delivering the liquid to be treated against the inner surface of the cylinder, with the cylinder formed for forcing said liquid from one end of the cylinder to the other, and means for collecting the liquid therefrom during the rotation thereof.

1,340,178. CLOTH-WINDING MACHINE. CHESTER E. MONEY, Chicago, Ill. Filed Apr. 26, 1918. Serial No. 230,855. 2 Claims. (Cl. 242—61.)



1. A cloth winding machine having a head shaft adapted to be rotated, supporting means for said shaft at opposite ends thereof, and means for holding the cloth board upon said shaft, said holding means including a gripper adapted to slide off the end of the shaft, said shaft having a joint in it whereby one end may be lifted out of its support to thereby permit said gripper to be slipped off over the end of the shaft.

1,340,179. TIRE-PROTECTOR. DANIEL D. O'BRIEN, Waukesha, Wis. Filed Apr. 15, 1916. Serial No. 91,276. 4 Claims. (Cl. 152—17.)



1. A resilient tire protector, comprising U-shaped holding members provided with tread openings, a protector band extending loosely and circumferentially movable through the openings, and means for attaching the holding members to a wheel rim.

1,340,180. PAPER-CLIP. JOSEPH J. O'BRIEN, Springfield, Mass. Filed Oct. 28, 1919. Serial No. 333,988. 3 Claims. (Cl. 24—66.)

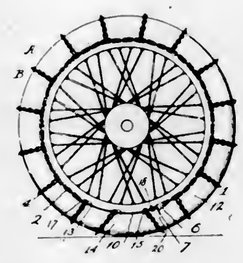


1. A paper clip consisting of an outer loop, an inner loop continuous therewith, the inner and the outer loops providing paper gripping jaws, the terminal of the inner loop being disposed laterally of the loop and deflected slightly from the plane of the clip and the terminal of the outer loop being deflected slightly from the plane of the clip.

1,340,181. FIBERED ASPHALT. GERSHON L. OLIENSIS, Philadelphia, Pa., and JOHN STROTHER MILLER, Jr., Rahway, N. J., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1918. Serial No. 268,582. 2 Claims. (Cl. 106—31.)

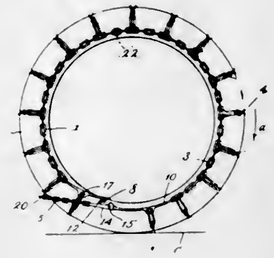
2. The process of producing liquefiable fibered asphalt which consists in comminuting a mass of dry fibers until such fibers are completely separated; adding such dry separated fibers slowly and evenly to melted asphalt while agitated in quantity sufficient to impart to the apshalt the desired cohesion but not sufficient to render the asphalt non-liquefiable.

1,340,182. NON-SKID CHAIN. JOHN F. PARKER, Kansas City, Mo. Filed July 23, 1917. Serial No. 182,193. 3 Claims. (Cl. 152—14.)



1. In a chain of the character described, two longitudinal strands, a hook connected to one end of each of said strands, a stiff member connected to the opposite end of one of said strands and adapted to be engaged and disengaged from the hook at the opposite end of said strand, and short strands connected to the longitudinal strands and said stiff member.

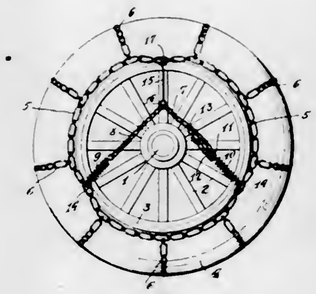
1,340,183. NON-SKID CHAIN. JOHN F. PARKER, Kansas City, Mo. Filed Apr. 28, 1919. Serial No. 293,213. 10 Claims. (Cl. 152—14.)



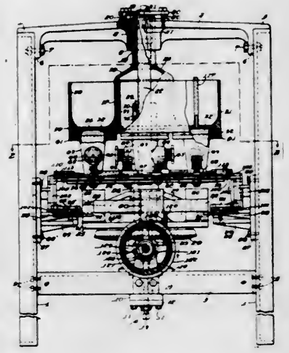
2. In a chain of the character described, two longitudinal strands, short transverse strands spaced apart and connected to said longitudinal strands, means for detachably connecting the ends of one of said longitudinal strands, a stiff member connected to one end of the other longitudinal strand, a stiff member connected to the opposite end of said other longitudinal strand and adapted to detachably engage the first stiff member, means on one of said stiff members to prevent the same from becoming disengaged from the companion stiff member, and a transverse strand connected to one of the longitudinal strands and the last-mentioned means to retain the same in active position.

1,340,184. TIRE-GRIP TIGHTENER. JOHN R. REYBURN, Bridgeport, Conn., assignor to American Chain Company, a Corporation of New York. Filed Nov. 1, 1919. Serial No. 334,930. 5 Claims. (Cl. 267—73.)

1. A tightening device for tire grips comprising a flexible tightener a portion of which is longitudinally resilient, and a non-extensible connecting member having slidable connection with a portion of said tightener intermediate its ends, the free ends of said tightener and said connecting member being provided with means for engagement with the circular member of a tire grip when the latter is applied to a wheel and the length of said connecting member being less than the distance from the hub of the wheel to the said circular member whereby the said tightener will clear the said hub.



1,340,185. CAN-FILLING MACHINE. JOHN SCHMIDT, Jr., of Philadelphia, Pa. Filed Jan. 12, 1918. Serial No. 211,645. 12 Claims. (Cl. 226—97.)



1. In a can filling machine, the combination of a can conveying device, a rotating table, means to receive a can and move it through said filling machine, a container for the material to be filled, a measuring device therefor, a rotary plate valve thereon, and substantially fixed means interposed in the path of the valve member to cause an intermittent movement in said valve always in the same direction.

1,340,186. PROCESS FOR FRACTIONATING COMPOUND SUBSTANCES CONTAINING INGREDIENTS OF CLOSELY-RELATED SOLUBILITY. ARMIN SEIDENBERG, New York, N. Y. Filed Aug. 10, 1918. Serial No. 249,260. 3 Claims. (Cl. 87—12.)

1. A process of fractionating a compound substance containing ingredients of closely related solubility which consists in first dissolving the substance in a plurality of solvents of different degrees of solvent action and volatility, said solvents being of such character that those having the greatest solvent action on the least soluble ingredient or ingredients are the most volatile and those

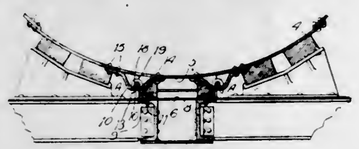
having the least solvent action on said ingredient or ingredients are the least volatile, and then gradually volatilizing the solvents so as to precipitate or separate the ingredients in the inverse order of their solubility.

1,340,187. QUICK-OPENING SEPARABLE FASTENER. GIDEON SUNDBACK, Meadville, Pa., assignor to Hookless Fastener Company, a Corporation of Pennsylvania. Filed July 14, 1917. Serial No. 180,533. 22 Claims. (Cl. 24—205.)



1. A separable fastener comprising two sets of separable members operating successively to lock and unlock, a slider for locking said members, and means permitting separation of said slider from at least one set of said members when locked to permit unlocking thereof independently of said slider.

1,340,188. TANK-CAR ANCHORAGE. WILLIAM J. TANGERMAN, Hammond, Ind. Filed Nov. 28, 1919. Serial No. 341,001. 4 Claims. (Cl. 105—362.)



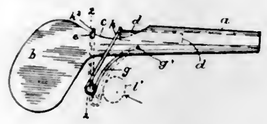
3. A tank car anchorage embodying therein a trough-shaped member containing a longitudinal row of perforations and a complementary bar having a row of teeth, the end portions of which are folded back and which are positioned in said perforations.

1,340,189. LENS. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 27, 1916. Serial No. 139,079. 1 Claim. (Cl. 88—54.)



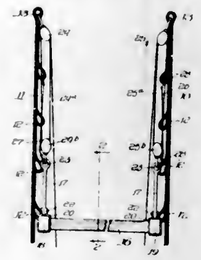
An ophthalmic lens comprising a pair of polished glass surfaces and an intermediate cementitious film of appreciable thickness, said film consisting of an adhesive gum combined with a toughener, substantially as and for the purpose described.

1,340,190. TOY PISTOL. MORTON A. TURTLE, East Orange, N. J. Filed Sept. 19, 1919. Serial No. 324,839. 7 Claims. (Cl. 124—12.)



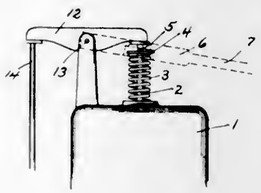
1. In a toy pistol, the combination, with a barrel for sustaining the projectile, with a notch at the rear end of the barrel, of a combined trigger and hammer formed of wire in one piece with a spring coil, the end of the trigger portion being pivoted upon the said barrel and the end of the hammer portion being pressed normally forward by the coil to drive the projectile from the barrel.

1,340,191. SAFETY SCAFFOLD-HANGING APPARATUS. JOSEPH UDOVICH, Duluth, Minn. Filed Sept. 30, 1918. Serial No. 256,276. 5 Claims. (Cl. 304—16.)



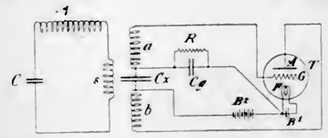
1. In combination, a scaffold platform, a pair of vertically suspended cables having spaced loops throughout their lengths, attaching means for securing the vertically suspended cables to the wall of a building, safety cables adapted to connect said scaffold platform with the said spaced loops, and means for varying the height of the scaffold platform.

1,340,192. OVERHEAD-VALVE LIFTER. DAVID VAUGHAN, Youngstown, Ohio. Filed Oct. 31, 1919. Serial No. 334,750. 1 Claim. (Cl. 29—87.1.)



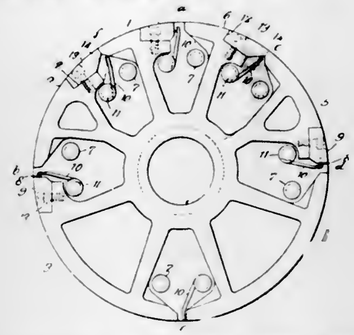
In a device of the class described a tool provided with a handle portion, one end of said tool having an enlarged circular part, a circular opening centrally located within said part, a larger opening extending part way through said enlarged part, an annular seat formed due to the increased diameter of part of the opening, openings at right angles to the opening above referred to spaced an equal distance from said opening, substantially as described for the purpose set forth.

1,340,193. ELECTRICAL OSCILLATOR. FREDERICK K. VREELAND, Montclair, N. J. Filed May 15, 1919. Serial No. 297,224. 9 Claims. (Cl. 250—36.)



1. In an electrical oscillator, a generator tube, a power circuit associated therewith, and an oscillating circuit associated with the power circuit by a step down coupling, substantially as set forth.

1,340,194. PRINTING-PRESS IMPRESSION-CYLINDER. JOSEPH J. WALSER, Chicago, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Original application filed July 11, 1917. Serial No. 179,830. Divided and this application filed Sept. 20, 1917. Serial No. 192,275. Renewed Jan. 8, 1919. Serial No. 270,279. 16 Claims. (Cl. 101—407.)



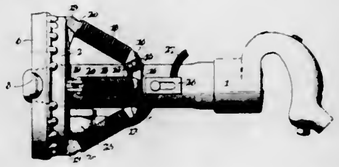
1. A printing press impression cylinder including in combination the cylinder body having a plurality of gaps extending longitudinally along its cylindrical exterior and blocks adapted to close said gaps so as to present an unbroken cylindrical surface, and means for holding the blocks in the recesses, the blocks being shiftable from one gap to another.

1,340,195. LAMP-ADJUSTER. KONOSUKE WATANABE, Edmonton, Alberta, Canada. Filed Apr. 22, 1918. Serial No. 230,163. 1 Claim. (Cl. 242—109.)



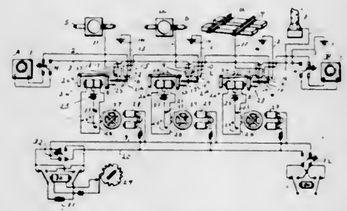
In a lamp adjuster, a flanged drum, a central spindle, a spring between the spindle and drum, arms carried by the spindle provided with U-shaped hooked ends offset above and below so as to extend horizontally in the plane of the drum and in reverse directions and a hook formed on the body of the drum between the flanges and adapted to coöperate with the outer periphery of the drum body to clamp a lamp cord therebetween.

1,340,196. PNEUMATIC RIVETING-HAMMER. JOHN HOWARD WAY, Philadelphia, Pa. Filed Nov. 26, 1918. Serial No. 264,158. 3 Claims. (Cl. 78—50.)



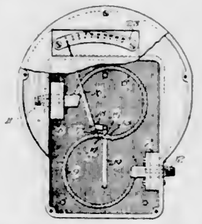
1. The combination with a pneumatic riveting hammer; of a magnetized annular plate disposed in position to attach itself magnetically to the surface of the work to be riveted; and a series of spring connections between the hammer and the plate, arranged to radiate from the hammer in an inclined direction, as they pass to the point of their attachment to the plate.

1,340,197. SYSTEM FOR RECORDING ELECTRICAL PHENOMENA. LOREN S. WELLS, New York, N. Y. Filed June 21, 1919. Serial No. 305,875. 10 Claims. (Cl. 175—183.)



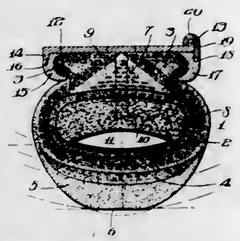
1. A system for recording electrical phenomena comprises a recording instrument at a station, a testing line extending from such instrument, selecting instrumentalities at spaced points along said line comprising means to connect said line with an electrical conductor and ground at such points, and selector mechanism at said station having a circuit for selectively operating either of such instrumentalities to connect said recording instrument with such electrical conductor and ground at a selected point.

1,340,198. DIFFERENTIAL GAGE. JOHN B. WILKINSON, Milwaukee, Wis., assignor of one-half to John C. White, Madison, Wis. Filed July 5, 1918. Serial No. 243,311. 3 Claims. (Cl. 73—109.)



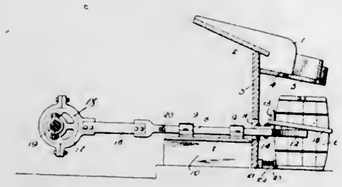
3. A differential gage, comprising a case, a pair of Bourdon tubes mounted at opposite sides of said case with their free ends in contiguous relation, a lever, a pivot pin connecting said lever and said free ends of the tubes, a pivoted pointer, and a link connecting said lever and said pointer.

1,340,199. DEMOUNTABLE-WHEEL EQUIPMENT. JOSEPH S. WILLIAMS, Philadelphia, Pa. Original application filed Jan. 19, 1911. Serial No. 603,552. Divided and this application filed Dec. 15, 1917. Serial No. 207,231. Renewed Nov. 7, 1919. Serial No. 336,474. 4 Claims. (Cl. 152—10.)



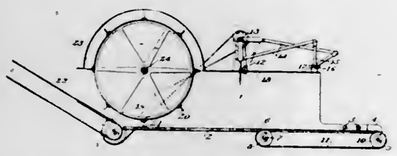
1. A demountable wheel equipment, comprising an annular, resilient body, provided with an annular, flexible tension belt disposed in flattened arch formation outwardly of its major axis in cross-section, with curvatures at the sides merging into annular tire beads, a yielding trussing support extending annularly between said beads, an annular resilient portion within said tension belt, and means to move said beads laterally toward said support to secure said belt in tension around said resilient portion.

1,340,200. NAIL-PACKING MACHINERY. TRUE ALEXANDER, Ashland, Ky., assignor to Norton Iron Works, Ashland, Ky., a Corporation of Kentucky. Filed Oct. 20, 1919. Serial No. 332,017. 6 Claims. (Cl. 226—72.)



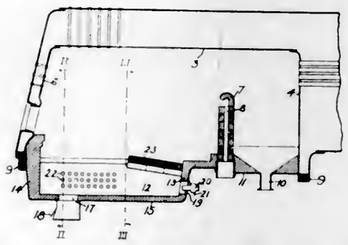
1. In a barrel shaking mechanism, the combination with a reciprocating member, a barrel embracing yoke formed upon the forward end of said member, a ring arranged to encircle a barrel embraced by said yoke, means for detachably connecting said ring with said member, and driving mechanism for reciprocating said member.

1,340,201. DISINTEGRATING-MACHINE. HERBERT ALLEN, Somerset, Ohio. Filed Aug. 20, 1917. Serial No. 187,280. 3 Claims. (Cl. 19—9.)



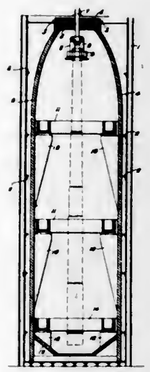
1. A machine for disintegrating bales of straw and other material, comprising a box, an endless traveling carrier in the box for receiving a bale of material from which the ties or bands have been removed and presenting said bale to the aftermentioned disintegrating elements, a series of disintegrating fingers, a crank shaft mounted upon the box and upon which the fingers are mounted and by the rotation of the shaft raised and then forcibly lowered and caused first to dig into the bale which is fed to them by the carrier and then draw away from the bale in the direction of its feed and drag out and loosen its constituent material, and a rotary toothed drum mounted in the farther end of the box in line with the fingers and to which the thus loosened material is delivered and by which it is further disintegrated or separated and rendered fit for its intended use.

1,340,202. OIL-BURNING LOCOMOTIVE. JAMES T. ANTHONY, East Orange, N. J., and G. Y. M. BEAN, Los Angeles, Calif., assignors to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 3, 1917. Serial No. 200,192. 6 Claims. (Cl. 158—3.)



1. In an oil burning locomotive, the combination of a fire box, a depending fire pan having a front wall, a rear or flash wall, side walls, and a floor, a transverse wall in the fire box ahead of the pan, a refractory arch at the forward end of the pan between the fire box and the pan, an air inlet in the front wall, a burner projecting therethrough, and openings in the side walls for admitting additional air.

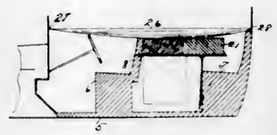
1,340,203. ELECTRIC FURNACE. THADDEUS F. BAILY and FRANK T. COPE, Alliance, Ohio, assignors to The Electric Furnace Company, Alliance, Ohio, a Corporation of Ohio. Filed Aug. 12, 1918. Serial No. 249,595. 5 Claims. (Cl. 204—64.)



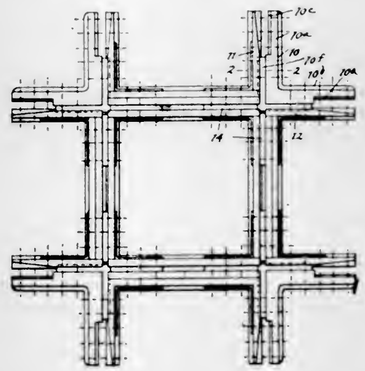
1. In a furnace of the character described, a chamber and a plurality of superposed resistance elements within said chamber, and an opening arranged at the upper extremity of said chamber and designed to admit articles to be heat treated to said chamber and means for supporting said articles centrally within said chamber.

1,340,204. BED-SUPPORTING MEANS FOR VEHICLES. PHILANDER C. BAIRD, Oklahoma, Okla. Filed May 1, 1917. Serial No. 165,762. 1 Claim. (Cl. 5—72.)

In combination with a vehicle body having front and rear seats, escutcheons in the back of the front seat, extensible members pivotally connected to said body adjacent to the rear seat and movable from a horizontal to an upright position, a foot rest including a receptacle connected to the free ends of said members, telescopic rods having means on their forward ends engaging said escutcheons and supported at their rear ends by said foot rest when in elevated position and cross members supported by said rods, said rods and cross members being adapted to be housed in said receptacle when not in use.

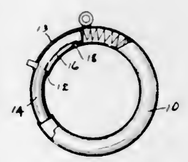


1,340,205. RAILROAD-CROSSING. STEPHEN BALKWILL, Cleveland, Ohio. Filed Jan. 20, 1919. Serial No. 271,996. 4 Claims. (Cl. 246—463.)



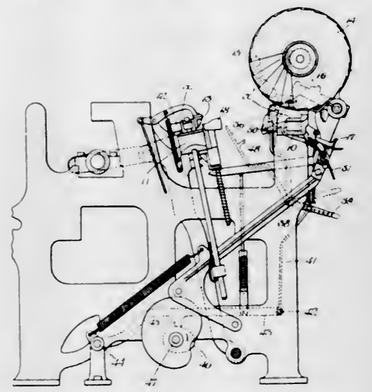
1. A railroad crossing having a corner portion which comprises a corner member formed as an integral piece having arms, the top portion of the arms serving as tread portions and rail sections extending parallel with the arms and with which the arms cooperate, means by which the said arms and rail sections are spaced to form intersecting wheel flange grooves, and means for securing the arms and rail sections to each other.

1,340,206. SPRING-RING. FREDERICK A. BALLOU, Jr., Providence, R. I., assignor to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed June 5, 1919. Serial No. 302,000. 2 Claims. (Cl. 63—21.)



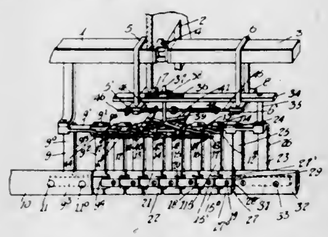
1. A spring ring comprising a tubular ring-shaped body having a section removed providing an entering mouth, the wall at one end of the tube being slotted, a bolt slidably mounted in said ring to normally close said mouth, an operating member on said bolt slidable in said slot, said bolt being provided with a recessed portion, and a member on said tube extending into said recess to limit the sliding motion of the bolt.

1,340,207. THREAD-PARTING MECHANISM FOR LOOMS. WILLIAM L. BARRELL, Lawrence, Mass. Filed Aug. 2, 1915. Serial No. 43,085. 13 Claims. (Cl. 139—85.)



1. In a weft-replenishing loom having weaving mechanism and shuttle-changing mechanism arranged to operate alternately, means arranged to clamp a thread continuously from one shuttle-changing period to the next, means arranged to move the thread extending from the fabric to the spent shuttle into potential position relatively to said clamping means, means arranged to part said thread between said clamping means and the spent shuttle, and means arranged to discharge the spent weft-carrier from the spent shuttle after said thread has been parted as aforesaid.

1,340,208. SWING-POLE TRACK-HINGE FOR LITTER-CARRIERS. WILLIAM STANLEY BEATY, Milton, Ontario, Canada. Filed July 24, 1919. Serial No. 312,921. 5 Claims. (Cl. 104—92.)

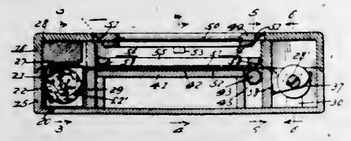


1. In a swing pole track hinge for litter carriers, the combination with the stationary track and its support, of a swingable pole track and its support, and a series of hinge links each comprising vertically disposed bar portions, a horizontally swingable tongue and jaw connection between the upper portions of the links and a horizontally swingable connection between the lower ends of the links, a track section carried by such lower horizontally swingable ends in alinement with the stationary track and swingable track.

1,340,209. PHOTOGRAPHIC-PRINTING APPARATUS. GEORGE C. BEIDLER, Rochester, N. Y. Filed Apr. 10, 1917. Serial No. 161,004. 4 Claims. (Cl. 95—75.)

1. In a photographic printing apparatus, a casing having an exposing chamber, a holder for a sensitized element and protecting strip, said holder having a slot therein for the removal of the said protecting strip and sensitized element, a support for the sensitized element, means for winding the sensitized element and protecting strip, and means for pressing a negative into engagement with the sensitized element, the said pressing means having clear-

ances at its ends for the passage of the sensitized element or protecting strip.

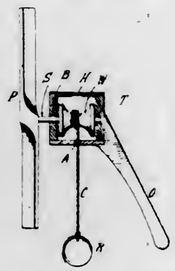


2. In a photographic printing device, a casing having an exposing chamber with means for movably holding a negative therein, means for protecting the exposing chamber from actinic light, said means being movable to permit access of light for printing, means for moving the sensitized element with relation to the exposing chamber and the negative, means for clamping the negative and sensitized element together while exposed to light, and means exterior of the casing for operating the clamping member.

3. In a photographic printing device, a casing, an apertured cover therefor, a support for a sensitized element under said aperture, a transparent negative and sensitized element clamp coacting with said support, and means extending externally of the casing for operating the clamp.

4. In a photographic printing device, a casing having an exposing chamber with means for movably holding a negative therein, means for protecting the exposing chamber from actinic light, said means being movable to permit access of light for printing, means for moving the sensitized element with relation to the exposing chamber and the negative, means for clamping the negative and sensitized element together, a slotted plate on the clamping means, a cam operatable in the slot, and means for rotating the cam.

1,340,210. AIR-PROPELLER. VENDEL LÁSZLO BÉKEFI, Cleveland, Ohio. Filed Nov. 15, 1918. Serial No. 262,745. 1 Claim. (Cl. 230—33.)



The combination with a device of the class described, of a housing provided with a flat bottom and upright ends, a curved hood covering the top, said bottom provided with an aperture, the front end provided with a bearing and the rear end provided with a socket bearing, a handle depending obliquely from said housing, a shaft journaled in said bearings and having a propeller blade at its front end, a pulley positioned upon said shaft within said housing, a cord attached to said pulley and extending through the bottom of said housing and carrying a ring at its lower end.

1,340,211. SHIM-HOLDER FOR VALVE-TAPPETS. GEORGE A. BREEZE, Detroit, Mich. Filed Oct. 30, 1916. Serial No. 128,368. 1 Claim. (Cl. 123—90.)



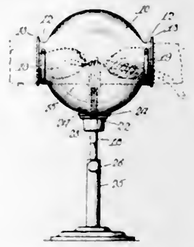
In a combination with a valve tappet, a plate having a transverse aperture formed therethrough for the reception of the end of said tappet, opposed pairs of laterally projecting stops and hooked tongues formed integral with said plate at its edges, and a shim mounted over the aperture of said plate and detachably retained thereon by engagement with said stops and hooked tongues.

1,340,212. FOLDING BED. CHARLES R. BRUCE, Kansas City, Mo. Filed Dec. 18, 1916. Serial No. 137,580. Renewed Apr. 16, 1920. Serial No. 373,607. 1 Claim. (Cl. 5—57.)



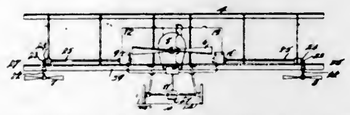
In a folding bed, a head piece, intermediate posts, bars connecting said head piece and said intermediate posts, a spring frame pivoted to said bars, a foot piece on said spring frame, legs supporting said foot piece and the respective end of said spring frame, a transverse member forming the end of said spring frame adjacent said head piece, a flat spring rigidly secured to said transverse member and extending downward and outward therefrom so that the end thereof will automatically latch above one of said bars when said bed is lowered and hold said bed rigidly lowered, a pulley attached to said transverse member and a cord attached to said spring near the lower end thereof and leading over said pulley and to said foot piece for the purpose of unlatching said spring so that the bed can be folded.

1,340,213. GOLD-SAVING RECEPTACLE. IRA A. BURNETT, Chicago, Ill. Filed May 31, 1919. Serial No. 300,880. 4 Claims. (Cl. 32—5.)



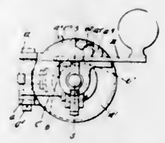
1. A device of the character described, consisting of a hollow transparent body having therein opposed openings and provided in its lower portion with an outlet opening, means to adjustably support said body and a cup detachably mounted around the outlet opening of the body.

1,340,214. AEROPLANE-STABILIZER. ANTHONY CHIARELLI, New York, N. Y. Filed Mar. 2, 1918. Serial No. 219,955. 2 Claims. (Cl. 244—25.)



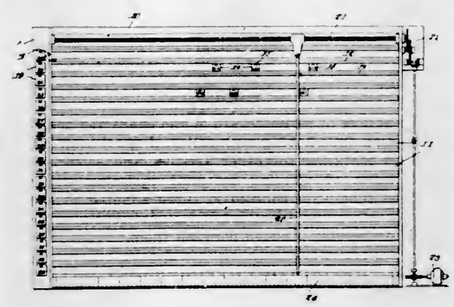
1. In combination with an aeroplane, a controller box pivotally secured thereto, a series of resistances located at each side of the box, a pendulum pivotally connected to said box intermediate said resistances, arms radiating from the pendulum one on each side thereof and extending toward said resistances, a brush carried by each arm and arranged to contact with said resistances, a motor in circuit with each series of resistances, and a stabilizing propeller actuated by each motor.

1,340,215. ORDNANCE BREECH MECHANISM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Aug. 1, 1918. Serial No. 247,857. 6 Claims. (Cl. 89—21.)



1. In ordnance breech mechanism, the combination with the breech screw, the swinging breech screw carrier and the hinge pin connecting said carrier to the gun, of a breech actuating hand lever, means for pivoting the hand lever to the carrier so as to move about an axis parallel to the carrier hinge pin, and a projection on said handlever engaging with a groove formed in the breech screw longitudinally with respect to the gun, said projection and groove being so arranged in relation to the pivotal axis of the handlever that the final portion of the movement of the latter in locking the breech screw causes the projection to pass over the dead point so as to lock the breech mechanism in the closed position against movement other than that imparted by manual unlocking movement of the handlever.

1,340,216. SYSTEM OF SHOP CONTROL. JOSEPH F. DIEPENBROCK, Chicago, Ill. Filed May 6, 1918. Serial No. 232,970. 4 Claims. (Cl. 116—114.)



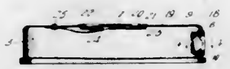
1. An apparatus for the control of shop operations, comprising job identification tokens, longitudinal supports on which the tokens are positioned, tool identification legends associated with the supports, a pointer movable along the supports, and means for moving the pointer at a constant and uniform speed.

2. An apparatus for the control of shop operations, comprising job identification tokens, longitudinal supports on which the tokens are positioned, tool identification legends associated with the supports, a pointer movable along the supports, means for moving the pointer at a constant and uniform speed, and a time scale on which the pointer indicates.

3. An apparatus for the control of shop operations, comprising job identification tokens, longitudinal supports on which the tokens are positioned, a pointer movable along the supports, and means for moving the pointer at a constant and uniform speed.

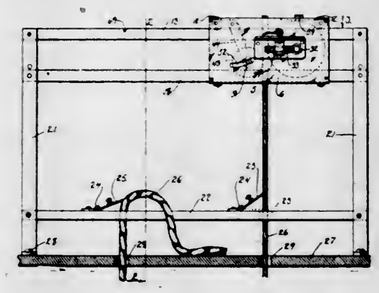
4. An apparatus for the control of shop operations, comprising job identification tokens, longitudinal supports on which the tokens are positioned, means for moving the pointer at a constant and uniform speed, and a time scale on which the pointer indicates.

1,340,217. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 30, 1915. Serial No. 24,861. 8 Claims. (Cl. 221—61.)



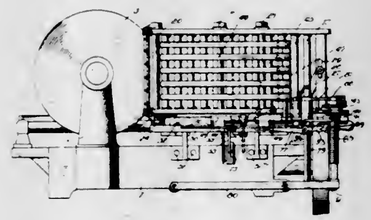
1. A container comprising an inwardly extending sifter member crimped at its edges to a side wall of said container, a sifter closure rotatably held in engagement with said sifter member and within said sifter member by the connection between said side wall and said sifter member.

1,340,218. ROPE-MEASURING DEVICE. FRANK A. ELLIS, Jr., Denver, Colo. Filed Apr. 30, 1917. Serial No. 165,362. 2 Claims. (Cl. 33—134.)



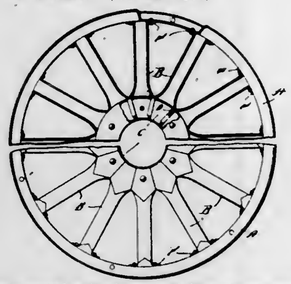
1. In combination, a support, a track, a measuring device movable on the track, a member parallel to the track and having spaced openings, and rope gripping devices adjacent said openings and coöperating with the edges thereof to hold a rope.

1,340,219. SLICING-MACHINE. JOSEPH FOLK, Laporte, Ind., assignor to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed Apr. 25, 1918. Serial No. 230,695. 18 Claims. (Cl. 17—24.)



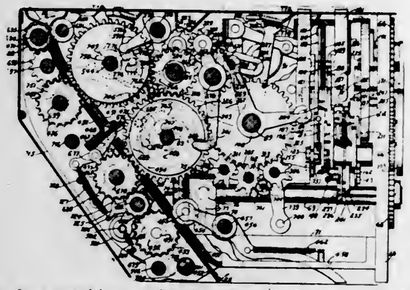
1. The combination with a slicing machine comprising a slicing knife and a reciprocating carrier for presenting material to said knife, of driving mechanism for said machine, a receiver for the slices formed by said machine, mechanism for depositing the slices upon said receiver, means for positively and automatically shifting the position of said receiver as the slices are deposited thereon, and a power transmitting chain of mechanism independent of said reciprocating carrier for operating said receiver shifting means from said slicing machine driving mechanism.

1,340,220. SHEET-METAL WHEEL. HENRY J. FOSTER, and EMIL GRUENFELDT, Cleveland, Ohio, assignors to Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 23, 1918. Serial No. 251,081. 5 Claims. (Cl. 21—69.)



1. A sheet metal wheel comprising sheet metal spokes, having tapered inner ends open at one side, and integral lateral extensions carried by said tapered ends, adapted to engage the sides of the next adjacent ends.

1,340,221. MULTIPLE-TICKET-ISSUING REGISTER. FREDERICK L. FULLER, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed Apr. 2, 1917. Serial No. 159,292. 32 Claims. (Cl. 101—66.)



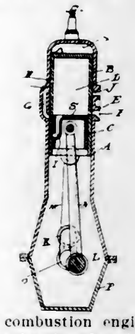
9. In a machine of the class described, the combination of a plurality of sets of consecutive numbering devices, an oscillatory operating cam for each set of consecutive numbering devices, means for moving any desired set of numbering devices relative to its cam whereby to cause the cam to advance the devices, means for simultaneously oscillating the cams whereby to advance the numbering devices of the unmoved sets, and an adjustable connection whereby the means last mentioned may be disabled.

1,340,222. GALVANIC CELL. CHRISTIAAN ANTONIE RUDOLF GRAAMANS, Rotterdam, Netherlands, assignor to Syndicaat Graamans' Patent, Rotterdam, Netherlands. Filed July 25, 1917. Serial No. 182,787. 5 Claims. (Cl. 204—29.)



3. A device as claimed in claim 1 wherein the end plates are split so that only the peripheral edges thereof will bear against the corresponding edges of the block.

1,340,223. INTERNAL-COMBUSTION MOTOR. HOMER M. HOLZE, Cleveland, Ohio. Filed Oct. 15, 1917. Serial No. 196,663. 6 Claims. (Cl. 123—66.)



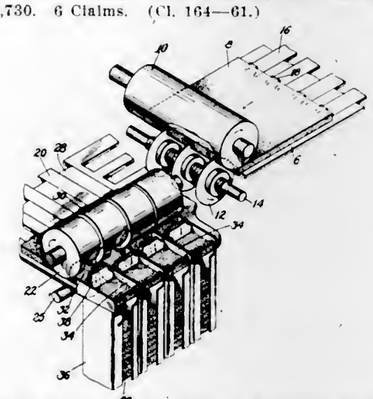
1. In an internal combustion engine, the combination with a cylinder and a chambered main piston, of an inner piston reciprocatable within the main piston, said cylinder being provided with spaced inlet and exhaust ports controlled by the main piston, the cylinder being also provided with a by-pass leading to the explosion end of the cylinder, said main piston being provided with inlet and outlet ports alternately registering with the inlet port and the by-pass in the said cylinder at opposite ends of the stroke of the main piston, and the said inner piston being provided with an outlet passage adapted to register with the said by-pass when the outlet port in the main piston is in register with the by-pass.

1,340,224. IMPLEMENT-HOLDER. FREDERIC W. HAWKES, New York, N. Y. Filed Oct. 10, 1917. Serial No. 195,768. 2 Claims. (Cl. 223—60.)



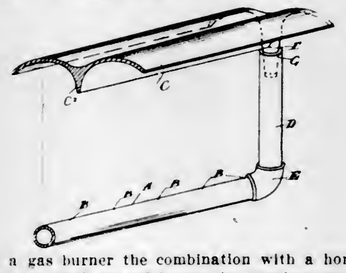
1. An article of manufacture of the character described, comprising a tube having a plurality of spool sections and forming a container for other articles, and separate concentric tubes of yielding material inclosing the first-mentioned tube, said concentric tubes adapted to contact with each other and constitute frictional retaining means for pins or needles inserted between them.

1,340,225. METHOD OF CUTTING SHEET MATERIAL. CHARLES B. HOWARD, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 20, 1919. Serial No. 318,730. 6 Claims. (Cl. 164—61.)



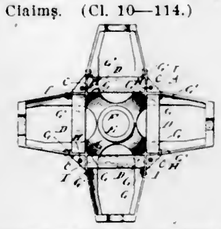
1. That improvement in methods of cutting sheet material into blanks which comprises cutting a sheet of material by cuts extending only part way through the material and by cuts extending through the material angularly to the first mentioned cuts so as to divide said sheet into pieces or strips, and subsequently separating blanks from said strips along the lines of incisions made by those cuts which penetrate only part way through the sheet material.

1,340,226. GAS-BURNER. DURWARD B. IGOU, Lakewood, Ohio. Filed Jan. 30, 1919. Serial No. 273,960. 5 Claims. (Cl. 158—113.)



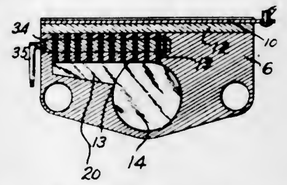
1. In a gas burner the combination with a horizontal tube provided with spaced burner jet openings on its upper face, of a baffle plate superimposed thereon and concaved upon both sides of a central rib upon its lower surface to form a combined commingling and deflecting means substantially as described.

1,340,227. MULTIPLE DIESTOCK. DURWARD B. IGOU, Lakewood, Ohio. Filed Mar. 24, 1919. Serial No. 284,835. 6 Claims. (Cl. 10—114.)



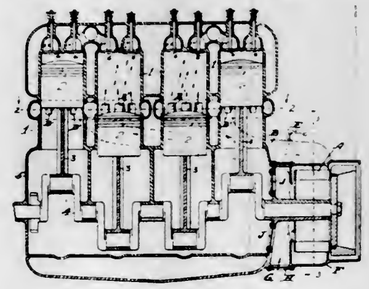
1. In a multiple die stock, the combination of a skeleton body separated into two portions upon a plane at right angles to the axis, a multiple number of spaced dies, carried upon the united edges of said skeleton body about the axis thereof, a corresponding number of divided guide sleeves in contact with each other, and axially attached handles for said body.

1,340,228. MEANS FOR INTRODUCING AUXILIARY AIR. ALFRED A. JACKSON, Denver, Colo. Filed Jan. 21, 1918. Serial No. 212,989. 3 Claims. (Cl. 277—66.)



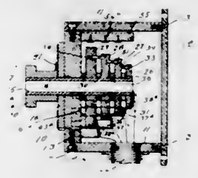
1. Means for controlling the supply of auxiliary air for internal combustion engines comprising a block provided with an opening adapted to communicate with the passage through which the explosive mixture flows from the carbureter to the engine, said block having perforations communicating with said openings at their inner extremities, and two valves for controlling the passage of atmospheric air through said perforations, one being a slide valve covering said perforations and adapted to expose one or more of said perforations, as desired, and the other a rotatable spindle valve intersecting said perforations and itself provided with openings adapted to register with said perforations of the block and rotatably adjustable for regulating the passage of air.

1,340,229. INTERNAL-COMBUSTION ENGINE. CARL F. JEFFRIES, Detroit, Mich. Filed May 14, 1917. Serial No. 168,358. 6 Claims. (Cl. 123—59.)



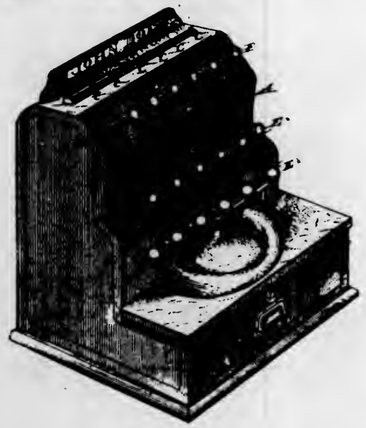
1. In a four-cycle internal combustion engine a cylinder provided at the top with a fuel inlet and exhaust ports and having at a point intermediate of its ends air inlet ports controlled by the sweep of the piston and arranged to be uncovered at the end of the down-stroke to admit air above the piston and at the end of the up-stroke to admit air below the piston to cool the crank shaft bearings, a blower, and means for delivering air from the said blower through the said inlet ports into the cylinder at the end of the induction stroke whereby the cylinder is supplied with air under pressure to increase the inflammable mixture delivered to the cylinder at the beginning of the induction stroke.

1,340,230. COMBINATION ELECTRIC SWITCH. HARRY A. JONES, Boston, Mass. Filed Apr. 10, 1919. Serial No. 289,017. 7 Claims. (Cl. 200—43.)



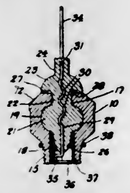
7. A combination electric switch comprising an inclosing casing having a front plate and a removable back plate, an operating shaft extended through said front plate and rotatable therein, a series of circuit control disks of different diameters, conducting segments arranged on similar peripheral faces of said disks, said disks arranged in graduated relation on said shaft with the disk of greatest diameter at the inner end and the disk of least diameter at the outer end of the series, whereby the conducting segments extend beyond the peripheries of adjacent outer and smaller disks of the series, a pair of circuit contact members in engagement with the extended peripheral outer face portion of each disk adapted to be electrically connected by said conducting segments, the contact members of each pair extended on diametrically opposite sides of the disks, contact member supporting posts of different lengths carried by and extended from said supporting plate and arranged in graduated relation in rows whereby the largest post is adapted to support a contact member for the disk of least diameter, and the shortest post is adapted to support the contact member for the disk of greatest diameter, and means to secure said contact members to said posts.

1,340,231. CHECK-CABINET. JAMES ARTHUR KIDWELL, Lakewood, Ohio. Filed Aug. 13, 1917. Serial No. 185,931. 2 Claims. (Cl. 235—17.)



1. In a check cabinet, a series of graduated check receptacles, the wall of said cabinet having inlet openings leading thereto, subtracting slides underneath said receptacles and dumping slides beneath said subtracting slides, a bell, and registering devices, means for sounding said bell and for operating said registering devices, and separate means for operating each of said slides, a slide for closing the said inlet openings leading to said check receptacle, means for operating said closing slide, and a device for preventing the movements of said registering devices, a bell sounding device, a closing slide and subtracting slides, and a separate locking device for said dumping slides.

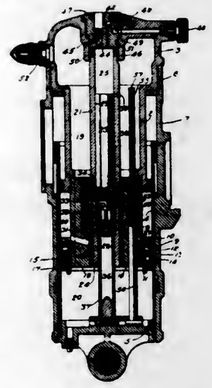
1,340,232. SPARK-PLUG. LOUIS F. LANDA, Flushing, N. Y., assignor of one-fourth to William F. Schmalkuche and one-fourth to William F. Schmalkuche, Jr., Flushing, N. Y. Filed Sept. 13, 1918. Serial No. 253,870. 4 Claims. (Cl. 123—169.)



1. A spark plug comprising a body portion, means for retaining a core within the body portion, said core being composed of a non-breakable fireproof and waterproof material having asbestos as a base, a circuit wire embedded in said core, one end of said circuit wire being provided with a cross head, a spring contact detachably connected with the core and coöperating with said cross head and the other end of said wire protruding through the core and coöperating with the body portion through a suitable circuit carrying element.

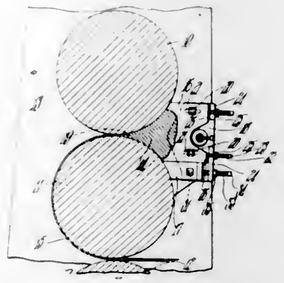
1,340,233. HYDROPNEUMATIC DEVICE. RICHARD LIEBAU, New Haven, Conn., assignor to The Westinghouse Air Spring Company, a Corporation of Pennsylvania. Filed Sept. 18, 1915, Serial No. 51,472. Renewed Feb. 19, 1920. Serial No. 359,854. 8 Claims. (Cl. 267—64.)

1. In a telescopic air spring having a sliding joint adapted to be sealed with liquid, a collector on the low pressure side of said joint for leaked liquid, a pump within the spring for charging the same with air, and a bleeder device for exhausting air from said spring to said collector;



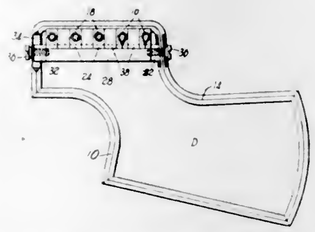
the operation of said bleeder device being dependent upon the relative positions of the telescoping members.

1,340,234. GUIDE FOR CALENDERS. THOMAS P. LITTLE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 25, 1919. Serial No. 306,690. 4 Claims. (Cl. 18—2.)



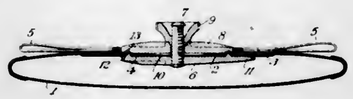
1. A guide for calender rolls comprising an end piece shaped to fit between a pair of adjacent calender rolls, a separate extension of said end piece, and means for adjusting said extension independently of the end piece.

1,340,235. DIE. THOMAS LUND, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 17, 1917. Serial No. 202,514. 7 Claims. (Cl. 164—29.)



1. A die having a wall provided with a continuous cutting edge, a member supported at its extremities on opposite portions of the wall and arranged for movement toward and from an intermediate wall portion, and cutting members carried upon the movable member for adjustment with respect to the cutting edge of the intermediate wall portion.

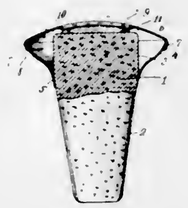
1,340,236. HOT-WATER OR ICE BAG. WALTER MOEHLE, Brooklyn, N. Y. Filed Jan. 5, 1920. Serial No. 349,491. 4 Claims. (Cl. 150—S.)



1. The combination, with a bag having an opening in one wall, of a two-part clamp comprising a disk-shaped member adapted to be introduced into the bag interior and under the edges of the hole, said member having all its superficial dimensions greater than the corresponding dimensions of the said hole and having a tapered extension lip adapted to facilitate such introduction, and an external, disk-shaped member adapted to overlie the edges of the hole, and clamping means for forcing said members together to grasp between them the edges of the bag wall around the hole, and so form a water tight joint therewith.

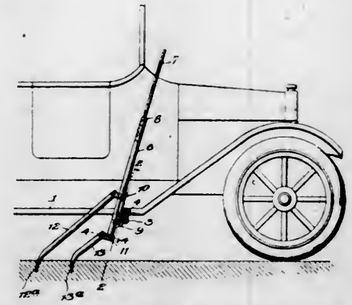
3. The combination of a water-tight bag having a hole in one wall, the material of which wall is thickened around the hole so as to form a circular reinforcement for the immediate edges thereof, which edges are left thin and flexible, and a stopper for said hole comprising a disk adapted to fit into the circular depression within the ring-shaped reinforcing portion, a second disk adapted to be inserted through the hole into the bag and then underlie the flexible edges of the hole, and clamping means adapted to press the two disks together upon either side of said flexible edges of the bag wall.

1,340,237. BOTTLE-STOPPER. THOMAS M. MOORE, New York, N. Y. Filed Feb. 21, 1917. Serial No. 150,064. 1 Claim. (Cl. 215—51.)



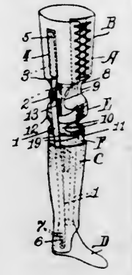
A device of the type described, including a closure comprising a cap-like member, a resilient stopper-member having a lower tapering portion, the upper portion thereof being of plane annular outline, said cap-like member being formed of a lower inwardly tapering hollow portion adapted to be compressibly engaged with the resilient stopper-member, the upper portion of said cap-like member being spaced off from the upper end of said resilient stopper member, said cap-like member having a central depressed portion, and an adhering means of connection between said cap-like depressed portion and the upper end of said resilient stopper-member.

1,340,238. DEVICE FOR EXTRACTING AUTOMOBILES FROM MUD, SAND, OR DITCHES. WILLIAM A. NASH, Plainview, Tex. Filed Oct. 13, 1919. Serial No. 330,297. 4 Claims. (Cl. 280—151.)



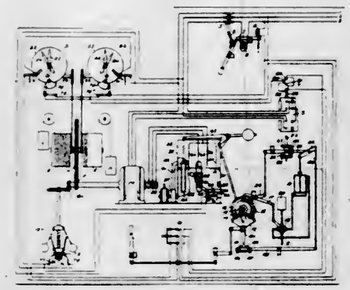
1. In a device of the kind described, a lever, a hook member thereon, pivoted arms having foot portions carried by the lever, and means carried by a vehicle and forming a fulcrum for said hook member.

1,340,239. ARTIFICIAL LIMB. GILBERT NELSON, St. Paul, Minn. Filed Mar. 27, 1917. Serial No. 157,640. 4 Claims. (Cl. 3—6.)



1. In an artificial limb, comprising a thigh lacer, a calf casing, arms secured to said thigh lacer and calf casing, having knee joints and a shin lacer flexibly secured to said thigh lacer and free to swing in said limb, whereby part of the pressure in said artificial limb can be carried by said shin lacer, substantially as described.

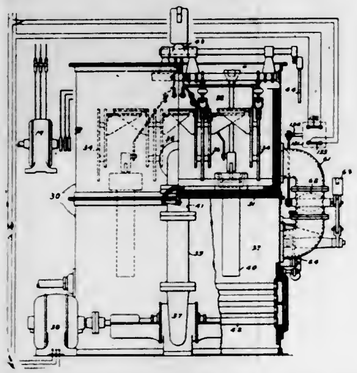
1,340,240. HOIST CONTROL. ALEXANDER J. NICHT, Jr., Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 30, 1914. Serial No. 815,841. 29 Claims. (Cl. 172—152.)



28. In combination, a motor, a control system for said motor including a liquid rheostat in a circuit of said

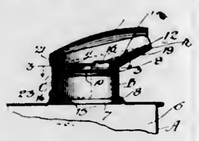
motor, said liquid rheostat including a receptacle containing resistance material in which electrodes are adapted to be immersed, means for varying the degree of immersion of said electrodes, and means operable independently of said immersion-varying means for altering the degree of immersion of said electrodes in response to predetermined electrical conditions in said control system.

1,340,241. LIQUID RHEOSTAT. ALEXANDER J. NICHT, Jr., Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Original application filed January 30, 1914, Serial No. 815,841. Divided and this application filed Feb. 11, 1916. Serial No. 78,047. 22 Claims. (Cl. 219—57.)
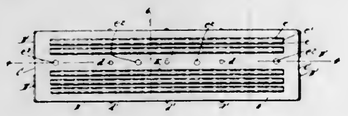


1. A liquid rheostat comprising a casing, electrodes adapted to be immersed in liquid in said casing, manually operable means for varying the degree of immersion of said electrodes, and electromagnetically operative means for varying the degree of immersion of said electrodes.

1,340,242. POURING-SPOUT. CHARLES H. NOWACK, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 3, 1916. Serial No. 81,780. 9 Claims. (Cl. 221—23.)



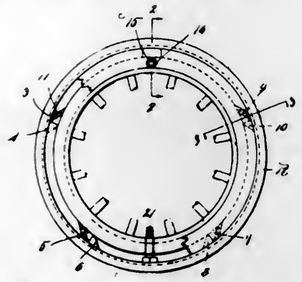
1. A pouring spout adapted for attachment to a nozzle and having a body for embracing said nozzle, and a lip insertible within the nozzle at the spout side of said body.

1,340,243. STAIR-TREAD. CHARLES E. OLIVER, Boston, Mass., assignor to Universal Safety Tread Company, Boston, Mass., a Corporation of Massachusetts. Filed July 27, 1918. Serial No. 246,951. 5 Claims. (Cl. 189—43.)



1. A stair tread comprising a rectangular sheet metal face plate having integral depending flanges at each end thereof and also at the front and back thereof, said front and back flanges having integral extensions which are bent around outside of said end flanges and so as to overlap and reinforce the latter.

1,340,244. DEMOUNTABLE RIM. ERNEST J. OSBORNE, Brookline, Mass., assignor of one-half to Arthur T. Bradlee, Brookline, Mass. Filed Mar. 27, 1919. Serial No. 285,440. 11 Claims. (Cl. 152—21.)



1. A rim for vehicle wheels and the like comprising a fixed portion and a demountable portion, interlocking means on said portions adapted to restrain movement of the demountable portion relatively to the fixed portion both circumferentially and axially, and a single device disposed at a point along the circumference of the rim for holding said means in interlocking relationship, said means comprising wedges arranged to permit said demountable portion to be placed around said fixed portion and being arranged to be held in interlocking relationship by said single device, all of said wedges being simple wedges.

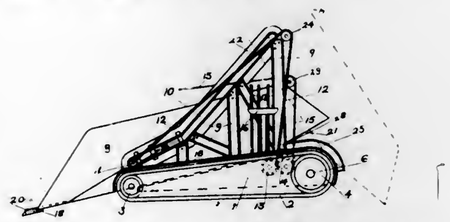
1,340,245. SHOTGUN-SHELL. HARLEY T. PECK, Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 23, 1919. Serial No. 299,326. 3 Claims. (Cl. 102—16.)

1. A shot gun shell comprising walls made of fibrous sheet material, said sheet material having finely divided graphite included within the body thereof, said sheet material being arranged to form the outer wall of said shell and having its outer surface exposed.

1,340,246. ASH-SAGE COLOR-PRESERVING EXTRACT. JOHN PETAN, Philadelphia, Pa. Filed Dec. 6, 1919. Serial No. 343,039. 1 Claim. (Cl. 8—13.)

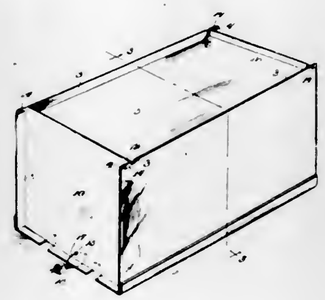
The ash-sage color-preserving extract, consisting of a solution from water, the steam or leaves (or both) of dry sage (salvia), and fresh, green ash-wood, (lanceolata).

1,340,247. EXCAVATING-MACHINE. OLUF G. PETERSEN, Somerset, Ky. Filed Apr. 7, 1914. Serial No. 830,188. 7 Claims. (Cl. 37—33.)



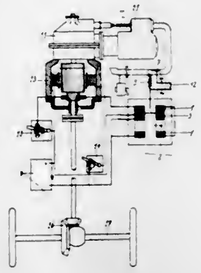
1. The combination of a low horizontal body provided with longitudinally arranged endless driving treads with frames mounted upon said body and extending vertically therefrom, guides extending rearwardly and upwardly from the forward end of said body to the top of said frames and guides at the extreme rear of said body, a scoop adapted to move in said guides from filling to discharging positions and means for actuating said scoop.

1,340,248. KNOCKDOWN BOX. ARTHUR G. PETIT, Southbridge, Mass. Filed Aug. 30, 1919. Serial No. 320,761. 4 Claims. (Cl. 220—4.)



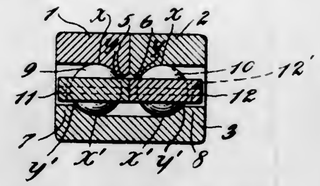
1. A container of the class described comprising side walls provided along their side edges with inturned overhanging flanges, end walls fitted between the side walls at the ends thereof and also provided with inturned overhanging flanges at one edge, and a closing wall constructed to fit between the said end walls and said side walls and provided at all its edges with straight outstanding flanges adapted to engage under the overhanging flanges of the said side walls and the end walls.

1,340,249. AUTOMATIC CONTROLLING APPARATUS FOR MIXED DRIVING SYSTEMS. HENRI PIEPER, Liege, Belgium. Filed Nov. 29, 1916. Serial No. 134,139. 3 Claims. (Cl. 290—19.)



1. An apparatus for controlling a mixed driving set in which a load is adapted to be driven at the same time by a prime mover and by a dynamo electric machine, a storage battery being enabled to furnish current to or to be changed by said dynamo electric machine and the energy of said prime mover being controlled by two coils responsive to the current and the voltage of said battery respectively, this apparatus being characterized by the fact that the two coils are arranged so that the one coil is movable against the action of a spring while the other coil is stationary, the two coils and the spring working together in such a way that the movable coil rests in the proximity of the stationary coil in the case of discharging but is removed from this position in the case of charging to an extent augmenting with the charging current increasing so as to permit and maintain the maximum power of the prime mover when discharging and to reduce it in conformity with the charging current.

1,340,250. BALL-BEARING. JOHN ERNEST PRUYN, Philadelphia, Pa., assignor of one-half to Emily C. Pruyn, Philadelphia, Pa. Filed Apr. 19, 1916. Serial No. 92,201. 9 Claims. (Cl. 64—59.)



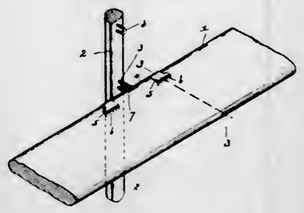
1. A ball bearing comprising two concentric rings, one of said rings consisting of a plurality of separate integral annular sections lying substantially in contact with each other without intervening spacing means, said rings having diagonal confronting ribs on their faces, and rows of balls between said rings co-acting with said ribs to hold the sections together.

1,340,251. INDEX. JAMES H. RAND, North Tonawanda, N. Y. Filed Aug. 20, 1918. Serial No. 250,727. 6 Claims. (Cl. 129—16.)



1. An index comprising a series of cards arranged in overlapped, spaced relation, with their margins exposed, each having a margin folded over upon the body of the card and fastened thereto part way from the fold, the end of the folded margin being free and constituting spacing means engaging the edge of the next adjacent card in the series, said cards having integrally formed projections extending laterally from the folded edges adapted to engage a channeled frame, said projections being of greater breadth than the spacing of cards whereby the projections of successive cards will overlap and lend support one to another.

1,340,252. BLIND-SLAT ATTACHMENT. NIELS C. RASMUSSEN, Troy, N. Y. Filed Sept. 5, 1919. Serial No. 321,812. 2 Claims. (Cl. 20—62.)

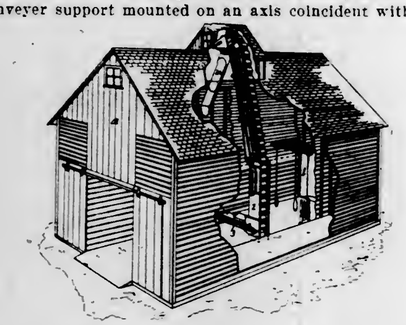


1. A blind-slat attachment comprising a plate having slat-engaging jaws, and an open hook adapted to engage a staple on the slat-operating rod.

1,340,253. ELEVATOR. GEORGE B. READ, Bloomington, Ill. Filed Oct. 23, 1914. Serial No. 868,239. 6 Claims. (Cl. 193—20.)

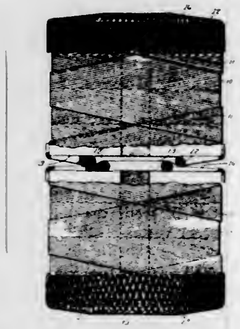
1. In an elevator, the combination of a conveyer housing, a second conveyer housing pivoted on an axis located at and parallel to adjacent edges of the respective hous-

ings, said housings mutually forming a continuous housing structure for the support of a single endless conveyer, means for retaining said housings at a predetermined angular position with respect to one another, a movable conveyer support mounted on an axis coincident with the



axis of pivotal movement of the housings, and a single endless conveyer mounted within said housings and having one reach within the housing in engagement with said movable conveyer support, and supporting means for the ends of said endless conveyer.

1,340,254. TWINE BALL. GEORGE L. RICE, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,705. 8 Claims. (Cl. 242—159.)



1. An article of manufacture comprising a ball of twine having a cylindrical body and a cover winding thereon which leaves differing circular areas at each end of the ball uncovered, the opposite turns of each of the individual windings of said cover being tangential to said areas.

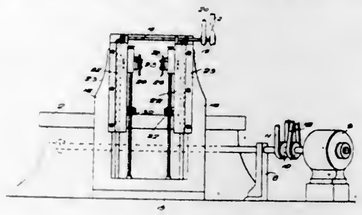
1,340,255. KNITTING-NEEDLE. LUCILLE DILLARD SCHOOLFIELD, Danville, Va., assignor of one-fourth to William L. Edmonston, Washington, D. C. Filed Sept. 22, 1917. Serial No. 192,669. 1 Claim. (Cl. 66—17.)



A knitting needle comprising a sleeve of translucent material and a separate member carrying a scale inserted in the sleeve.

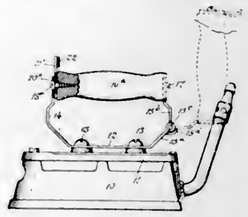
1,340,256. DOUBLE-ACTING METAL-PLANER. CHARLES A. SNIDER, Atlanta, Ga. Filed Nov. 8, 1918. Serial No. 261,663. 2 Claims. (Cl. 90—36.)

1. In a metal planer, a base, a platen slidably mounted thereon, uprights arranged at one side of the base, vertically adjustable tool holder carrying arms, depending leg portions carried by said arms slidably mounted upon said uprights, a plurality of cutting elements arranged upon the arms in opposed groups, means for effecting independent vertical and horizontal adjustment of the respective



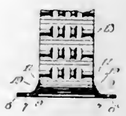
tool holders with respect to the arms, and means for simultaneously adjusting the arms vertically.

1,340,257. SADIRON. OTTO SPAHR, Philadelphia, Pa., assignor to Strause Gas Iron Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 14, 1914. Serial No. 872,061. 4 Claims. (Cl. 68—26.)



1. A sad iron comprising a body, a handle having its one end movably connected therewith, said handle being movable to an inoperative position substantially outside of the heat rising from said body when not in use, a member extending upwardly from said body, means for detachably connecting the other end of said handle in an operative position to said member, and a device for moving said member away from said handle end to disconnect said connecting means whereby said end of the handle is released from said member.

1,340,258. RADIATOR-CORE PLATE. CHARLES F. SPERY, Chicago, Ill., assignor to Hooven Radiator Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 28, 1918. Serial No. 256,077. 3 Claims. (Cl. 257—125.)

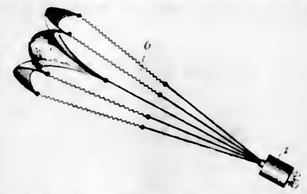


1. A radiator core plate comprising a substantially flat plate body adapted to be secured to the radiator water well and having a water passageway therethrough substantially coextensive with the core in the longitudinal direction, and an offset portion on said plate surrounding said passageway, said offset portion having a rest surfaced thereon for the radiator core.

1,340,259. PARACHUTE. JOHN WALLACE TAYLOR, Philadelphia, Pa. Filed Oct. 25, 1918. Serial No. 259,680. 5 Claims. (Cl. 244—21.)

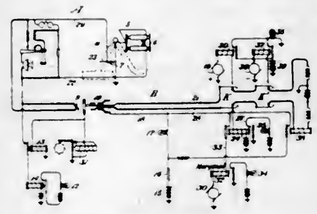
1. In a parachute, the combination of a cover or body and the object to be supported and the connections between the edges of the cover or body and the said object, of means for varying the effective area of the said cover

or body in accordance with the velocity of the parachute, said means comprising resilient members interposed in



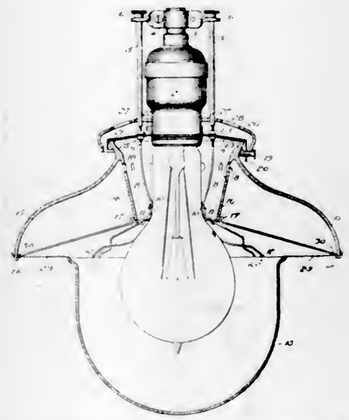
sundry of the said connections, the other of said connections being non-resilient.

1,340,260. REGISTERING-CIRCUITS FOR COIN BOXES. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 17, 1918. Serial No. 258,637. 8 Claims. (Cl. 179—6.3.)



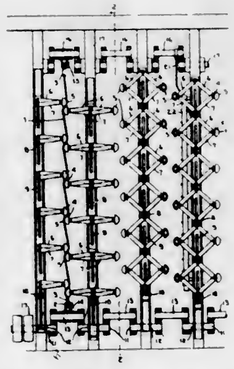
1. In a telephone toll system, the combination of a central station, a substation, a line connecting the central station and substation, and a toll device at the substation of a register at the central station, signals at the central station, means at the central station for sequentially operating said signals upon the legitimate operation of the toll device, and means whereby said register is actuated by said means upon the legitimate operation of the toll device.

1,340,261. LIGHTING-FIXTURE. JAMES T. THOMPSON, Washington, D. C. Filed Feb. 18, 1919. Serial No. 277,759. 7 Claims. (Cl. 240—78.)



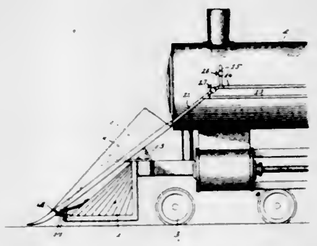
1. A semi-indirect lighting fixture including in combination a lamp, a shade and bowl colectively inclosing said lamp, a supporting yoke secured above the lamp socket, rods depending from said yoke, a shade holder carried by said rods, an expansion ring surrounding the neck of the lamp, and hook members radiating from said ring and engaging the edges of the shade and bowl elements aforesaid.

1,340,262. LEATHER-WORKING MACHINE. FRANK W. TUCKER, Lynn, Mass., assignor to Francis A. Shea, Boston, Mass. Filed Sept. 3, 1918. Serial No. 252,351. 6 Claims. (Cl. 149—20.)



1. In a leather-working machine the combination with a frame for holding a hide in stretched condition, of a plurality of working elements having engagement with each side of the hide, and means to give the frame with the hide supported thereby a movement in the plane of the hide.

1,340,263. SNOWPLOW. ORA BERRY, Princeton, Ind. Filed July 30, 1918. Serial No. 247,353. 1 Claim. (Cl. 37—60.)

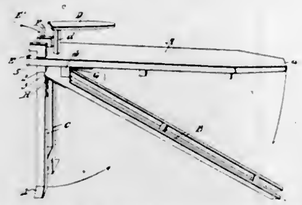


The combination with a moving vehicle, of a snow plow mounted at a downward and forward angle of inclination upon the front of the vehicle, said plow comprising a body of hollow formation and composed of front and rear walls disposed in spaced relation to each other to provide a shallow intervening chamber, said plow body embodying a pair of arcuately-shaped wings meeting at the center to provide a splitting ridge and thence extending outwardly and rearwardly toward their side edges on curved lines to provide concaved and laterally sloping faces on opposite sides of the ridge, said ridge being of maximum extent of projection at the top of the body and thence gradually diminishing in extent of projection toward the bottom of the body, horizontal transverse partition plates arranged within the chamber of the body to provide staggered steam passages, and a steam pipe communicating with said passages, the body being provided with an exhaust outlet also communicating with said passages.

1,340,264. ART OF TINNING OR SOLDERING ALUMINUM. JOHN DEAN, Racine, Wis. Filed Aug. 11, 1919. Serial No. 316,636. 4 Claims. (Cl. 113—112.)

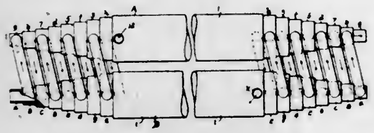
1. In the art of tinning or soldering aluminum, that step which consists in abrading the hot aluminum surface and applying the molten solder thereto by a mass of steel wool.

1,340,265. FOLDING IRONING-BOARD. RALPH FOX, Wooster, Ohio. Filed Jan. 20, 1920. Serial No. 352,913. 2 Claims. (Cl. 68—10.)



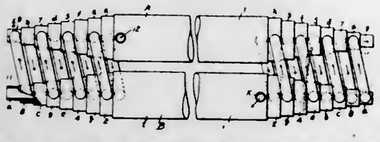
1. In a device of the character described, the combination with an ironing board, of a supporting frame comprising a pair of standards having lateral projections at their tops, said board having in its end slots receiving said standards, and a diagonal support intermediate said board and standards, hinged to both at and near its upper and adjacent end, and means insertible between said projections and said board for latching the front end of said board to said standards, substantially as set forth.

1,340,266. HEAT-EXCHANGER. HARRY D. HILDEBRAND, Pittsburgh, Pa. Filed Jan. 2, 1917. Serial No. 140,093. 3 Claims. (Cl. 257—243.)



1. A heat exchanger having in combination a plurality of elements, each element consisting of a plurality of nested pipe sections, alternating sections of one element being connected to alternating sections of the other element.

1,340,267. METHOD OF EXCHANGING HEAT. HARRY D. HILDEBRAND, Mount Vernon, Ohio. Original application filed Jan. 2, 1917, Serial No. 140,093. Divided and this application filed Apr. 21, 1919. Serial No. 291,425. 2 Claims. (Cl. 257—51.)

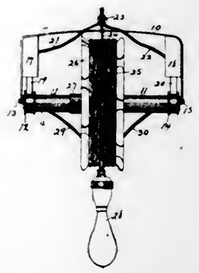


1. The method of effecting an exchange of heat between fluids, which consists in causing the fluids to be cooled to flow in progressively larger annular streams, and the fluid to be heated to flow in progressive smaller annular streams, which alternate with the streams of the fluid to be cooled.

2. The method of effecting an exchange of heat between fluids which consists in causing a fluid of one temperature to flow in progressively larger annular streams and a fluid of another temperature to flow in progressively smaller annular streams which alternate with the streams of the first fluid.

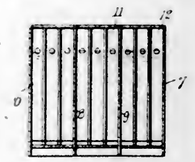
1,340,268. ELECTRIC-CONDUCTOR TAKE-UP. ARTHUR W. HILL, Belmond, Iowa. Filed June 19, 1919. Serial No. 305,325. 1 Claim. (Cl. 173—367.)

An electric conductor take up, comprising a yoke, a spring roller mounted in and connecting the extremities of arms of said yoke, a drum detachably mounted on said roller, brush members on the ends of said roller, a lamp cord adapted to be wound on said drum, which lamp cord has its members separated at one end and connected with said brush members, brushes on and insulated from said yoke, which brushes are in contact with said brush members, conductors leading from said brushes, a rod on and



transversely of the yoke, which rod is formed with an eye on each end, said lamp cord traversing one of said eyes, said conductors traversing the other eye and supporting the entire device.

1,340,269. STORAGE BATTERY. PERCY DOUGLAS IVEY, Guelph, and ALFRED JAMES SALISBURY, Toronto, Ontario, Canada. Filed Feb. 14, 1919. Serial No. 277,036. 1 Claim. (Cl. 204—29.)



In a battery cell having transparent walls, a supplemental wall located in proximity to one of the walls and provided with partitions extending between it and the wall whereby separate chambers are provided, the said chambers communicating with the main cell, whereby the electrolyte is common to all, each chamber being provided with a single bead or buoyant element in the electrolyte, whereby the reading and free movement of each bead is facilitated.

1,340,270. SAFETY ELECTRIC WELDING-TORCH. EMIL JAHODA, New York, N. Y. Filed Mar. 11, 1920. Serial No. 365,027. 9 Claims. (Cl. 219—8.)



1. An improved electric welding torch having means for gripping a welding rod, means for conducting an electric current to said rod, and a circuit-breaker automatically operated to cut off the electric current when the grip on the welding rod is released.

1,340,271. HALTER. PETER W. JENSEN, Princeton, Minn. Filed Dec. 6, 1919. Serial No. 342,938. 2 Claims. (Cl. 54—24.)



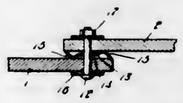
1. A halter comprising a chain constituting a head stall to pass over the neck and head of the animal, a second chain passing under the lower jaw of the animal and connected at one end with an end of the headstall chain, a nose chain extending from the connection between the first-metioned chains and loosely connected with an intermediate portion of the headstall chain, and a chain connecting the nose chain loosely with an intermediate portion of the second-mentioned chain.

1,340,272. SPRING-TIRE. EVANS S. JOHNSON, Eldorado, Okla. Filed Feb. 18, 1919. Serial No. 277,700. 1 Claim. (Cl. 152—8.)



A tire including a rim and a tread band spaced therefrom, said rim and band having each two series of sockets spaced apart axially of the band and arranged with the sockets in pairs and two series of helices between the rim and band having oppositely extending end portions engaged in corresponding opposite sockets of the rim and band, with the axes of each series of helices in a common plane at right angles to the axis of the band.

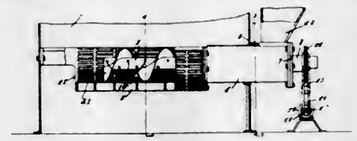
1,340,273. ELECTRIC-LIGHT BRACKET. JOHN G. JONES, Detroit, Mich. Filed May 2, 1919. Serial No. 294,137. 1 Claim. (Cl. 287—17.)



In a lamp bracket of the character described comprising a plurality of arms pivotally joined together, a friction joint between said arms comprising a spring washer provided with a plurality of radial cusps, each cusp being bent at an angle to engage one of the arms and then at an angle to engage the other arm, alternate cusps being bent in opposite directions.

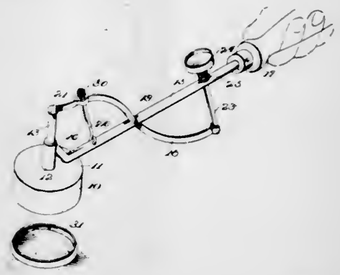
1,340,274. AUTOMATIC FIRING DEVICE. ORIN KELLY, Columbus, Ohio. Filed May 29, 1919. Serial No. 300,580. 2 Claims. (Cl. 110—44.)

1. In a device of the class described, a tubular member; a trough-shaped grate at the inner end of the tubular member and open for the admission of air; a hollow shaft in the tubular member and in the grate, the shaft being open at its outer end and having perforations located above the grate; a worm carried by the shaft and operating



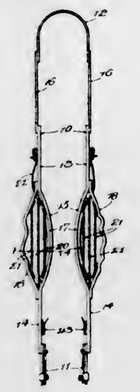
in the tubular member and in the grate: and means for supplying fuel to the tubular member adjacent to the outer end of the tubular member.

1,340,275. ROUGE-POWDER MEASURE. WILLIAM G. KENDALL, Newark, N. J. Filed July 31, 1919. Serial No. 314,582. 7 Claims. (Cl. 73—165.)



1. A device of the character described including a cup, a plunger reciprocable therein, a handle shank connected with the cup, a lever pivoted upon said shank for actuating the plunger, and a reciprocable actuating rod for the lever.

1,340,276. APPLIANCE FOR MEN'S TROUSERS. JOHN B. KOEHNE, New London, N. H. Filed Sept. 22, 1919. Serial No. 325,496. 3 Claims. (Cl. 2—126.)



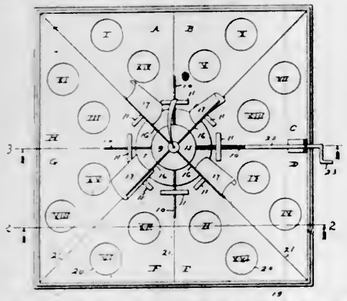
5. A garment distending device comprising pendant tape members adapted to be supported within the trouser legs between the limbs of the wearer and the trouser legs, the intermediate portion of each of said tape members being formed of a plurality of layers of fabric directly connected to the end portions, means for normally holding the layers of fabric of the intermediate portion of each member in spaced relation, means for securing the lower ends of the tape members to the wearer's socks, and elastic connections between the upper ends of said tape members adapted to extend over the crotch of the trousers.

1,340,277. FOUNTAIN-PEN. DAVID J. LA FRANCE and WILLIAM P. DE WITT, Somerville, Mass., assignors to De Witt La France Co., Cambridge, Mass., a Partnership composed of David J. La France and William P. De Witt. Filed July 11, 1918. Serial No. 244,351. 16 Claims. (Cl. 120—48.)



1. A fountain pen having, in combination, a casing, a pen section movable longitudinally of said casing, a feed section secured in said pen section and provided with an ink channel terminating adjacent to the inner end of said feed section, a feed tube arranged in telescopic and substantially coaxial relation with said pen section, said feed section being arranged to seat against the end of said feed tube to close said tube, said pen section having a duct formed at one side thereof in alinement with said ink channel, adapted to provide communication between said channel and the interior of said pen section at the end of said feed section, means for moving said feed section away from said feed tube to open said tube, and a cap having screw threaded engagement with said casing, adapted to engage said pen section and positively seat said feed section against said feed tube, whereby said tube will be closed.

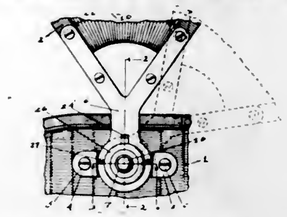
1,340,278. TOY OR GAME. ALFRED L. LILLEY, West Hartford, Conn. Filed July 24, 1919. Serial No. 312,968. 7 Claims. (Cl. 46—56.)



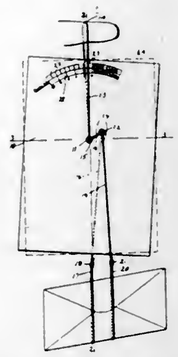
1. A game apparatus comprising a base, a post rising from the base, a wheel loosely mounted on the post, an axle supported by the post, a pulley mounted on the axle and bearing against said wheel, means for rotating said axle, wires radiating from the wheel, and disks thrust upon said wires.

1,340,279. CARRIAGE-TOP. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich., a Corporation of Michigan. Filed Aug. 22, 1919. Serial No. 319,238. 10 Claims. (Cl. 296—110.)

1. In a structure of the class described, the combination of a supporting plate having a slot therein and provided with a hollow stud having a lug thereon, a slotted dog slidably mounted on the rear side of said plate and provided with an engaging portion projecting through said slot, an actuating member mounted in said stud to reciprocate in said slot in said dog and provided with a cam portion coacting with said dog to hold it in engaging position, a spring arranged in said stud to hold said actuating member normally in engaging position, a top member mounted on said stud and having a toothed segment with which said dog coacts, said top member being notched to receive said lugs permitting the engaging and disengaging of the top member, a retaining member slidably mounted on said top member to close said notch and coact with said lug, said retaining member being provided with a finger piece, and a face plate for said top member provided with an opening through which said finger piece projects.



1,340,280. SCALE FOR WEIGHING MAIL-MATTER. FRED W. MCARDLE, Boston, Mass. Filed Apr. 25, 1918. Serial No. 230,701. 1 Claim. (Cl. 265—61.)



A weighing device consisting of a rectangular plate of thin, rigid material having two perforations; a cord formed with a loop, the free ends of which are passed in opposite directions through one of the perforations, located at a point on the vertical axis, above the center of gravity of the card, are knotted or otherwise confined at their junction, and are passed through the second perforation, located at one side of and diagonally above the first perforation; each end being formed into a loop for the purpose of supporting an article laid within the loops; means for indicating the weight of the article by the registration of a portion of the cord with scale graduations marked on the card; the reading to be taken when the device, together with the article to be weighed, supported in the end loops, is suspended from the loop passing through the point of suspension, as described.

1,340,281. PRIMING DEVICE. PATRICK J. MCINTYRE, Auburn, R. I., assignor to United Wire and Supply Company, a Corporation of Rhode Island. Filed Oct. 8, 1919. Serial No. 329,315. 2 Claims. (Cl. 123—187.5.)

1. In a priming device, the combination with an inclined cylinder, of a body mounted in the cylinder at right angles thereto, a plug valve rotatably mounted in the body and disposed at an inclination to the body, an arm upon the plug at right angles thereto, and a cup upon the arm, said body, plug valve, and arm being provided with liquid passages communicating with the cup.

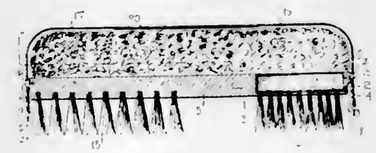


1,340,282. VELOCIPEDE-HORSE. DANIEL H. MARKMANN and MAX A. DEMMLER, St. Louis, Mo. Filed June 7, 1919. Serial No. 302,547. 3 Claims. (Cl. 208—165.)



1. A velocipede horse, comprising a truck, a propelling mechanism for said truck composed of a drive shaft, a sprocket wheel on said shaft, a sprocket chain that travels over said sprocket wheel, oscillating legs on the body of the horse, an actuating means for said legs consisting of a rotatable shaft, a sprocket wheel on said rotatable shaft arranged in engagement with and driven by the sprocket chain of the truck propelling mechanism, and means pivotally connected to said rotatable shaft and to the front and rear legs of the horse for rocking said legs when the truck propelling mechanism is in operation.

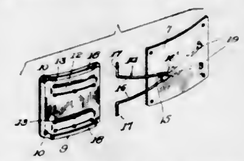
1,340,283. FOUNTAIN SHOE-BRUSH. CECIL J. MILLS, Whangarei, New Zealand. Filed May 10, 1919. Serial No. 296,174. 2 Claims. (Cl. 15—16.)



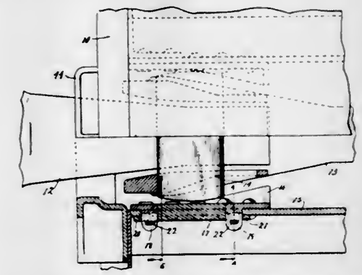
1. A shoe brush comprising a body having polishing means fixed to two opposite sides thereof, pivots fixed to the ends of said body, and a cover having a plurality of pivot openings in each end, said openings being arranged for interchangeable engagement with the fixed pivots to permit the cover to lie closely adjacent the body and to be moved clear of said body to swing to the opposite side thereof.

1,340,284. CLASP. PETER W. MURRAY, Buffalo, N. Y. Filed Oct. 2, 1919. Serial No. 327,835. 6 Claims. (Cl. 24—206.)

2. A clasp including a plate having pairs of alining openings, a locking device having laterally projecting fingers adapted to be extended through said pairs of openings, and longitudinally extending flanges carried along the edges of the locking plate and overhanging the end portions of said laterally projecting fingers.

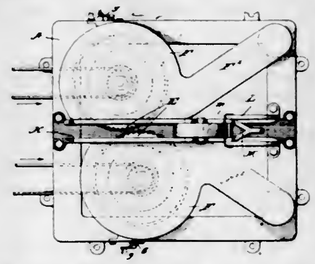


1,340,285. DRAFT-ARM FOR RAILWAY-CARS. CHARLES J. NASH, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed Dec. 29, 1919. Serial No. 347,963. 3 Claims. (Cl. 213—42.)



1. A draft arm for railway cars having an opening for the insertion of a coupler securing key, and a filler block secured in the aperture and having its inner face flush with the inner face of the arm.

1,340,286. TWIN CIRCULAR RESAWING MACHINE. JOSEPH A. NEAL, Mobile, Ala. Filed Dec. 23, 1918. Serial No. 267,965. 13 Claims. (Cl. 143—40.)

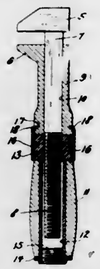


1. In a resawing machine, a main supporting frame having upper and lower cross-bars and a mandrel frame adjustably secured to said cross-bars at each side of said main frame, each of said mandrel frames having a bearing member at its upper end fixed relative to the mandrel frame and having slidably secured thereto below said relatively fixed bearing member a vertically movable bearing member in which the mandrel is journaled, the latter bearing member carrying a step box on which the foot of the mandrel rests, and means for raising and lowering said movable member and thereby raising or lowering the mandrel.

1,340,287. WRENCH. AUGUST NIKANDER, Detroit, Mich. Filed Oct. 21, 1918. Serial No. 258,979. 1 Claim. (Cl. 81—169.)

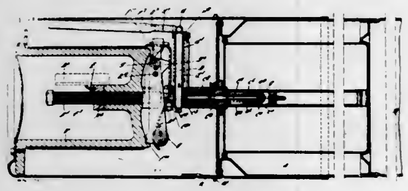
A wrench comprising inner and outer jaws, shanks carrying said jaws, the inner jaw shank having a longi-

tudinal opening through which the outer jaw shank slidably passes, and said outer jaw shank having an externally threaded stem at its inner end, a handle, a sleeve embedded longitudinally in the handle, into which sleeve the threaded stem extends, a nut on the forward end of the sleeve through which the stem is threaded, the handle abutting against one face of the nut, and the rear end of



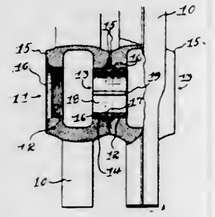
the inner jaw shank abutting against the other face of the nut, said inner jaw shank having an annular groove, coupling members carried by the nut and slidably engaging the groove for locking the inner jaw shank and the nut against endwise separation, a cap plate engaging the butt end of the handle and the sleeve, and a fastening member threaded through the cap into the sleeve.

1,340,288. SUBMARINE MINE. THOMAS KEPPEL NORTH, Westminster, London, England, assignor to Vickers Limited, Westminster, England. Filed June 21, 1917. Serial No. 176,063. 12 Claims. (Cl. 102—3.)



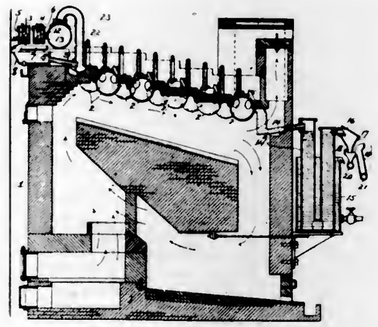
6. In a submarine mine, the combination with the striker head, its rod or stem, and a spring bearing at one end against said head and at its other end against a fixed part, of a member which is carried by said head and connects the latter to the rod and means whereby when the striker head has been retracted to a predetermined extent against the resistance of its spring, the member will be moved by the pressure of the said spring into the disengaged position to liberate the striker head from its rod.

1,340,289. NIPPLE-COUPLING FOR RADIATORS AND SIMILAR STRUCTURES. VINCENT R. O'BRIEN and WILLIAM N. PARKS, St. Paul, Minn. Filed Jan. 9, 1918. Serial No. 210,991. 5 Claims. (Cl. 285—146.)



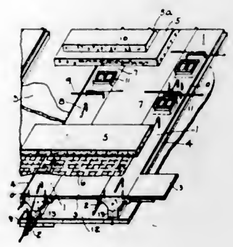
4. A coupling for uniting a pair of radiator sections, comprising a right and left threaded nipple, a slip nipple, whose radial cross section is an obtuse triangle, slidable upon said threaded nipple, said threaded nipple being adapted to be screwed into said sections to draw the same into contact and said slip nipple being adapted to be hermetically seated against the abutting surfaces of said sections.

1,340,290. SULFURIC-ACID CONCENTRATION. JOHN PATTEN, Baltimore, Md., assignor of one-half to Samuel M. Shoemaker, Eccleston, Md. Original application filed Oct. 24, 1917, Serial No. 198,324. Patent No. 1,294,827, dated Feb. 18, 1919. Divided and this application filed Dec. 30, 1918. Serial No. 268,872. 5 Claims. (Cl. 23—1.)



1. The combination with a connected series of concentrators and means for heating the same, of two valved sources for feeding acid to one end of said series of concentrators, two receiving means for acid from the concentrators, and means for shifting the discharge of acid from one of said receiving means to the other.

1,340,291. REINFORCED-CONCRETE FLOOR CONSTRUCTION. WALTER M. PRATT, Detroit, Mich. Filed Nov. 12, 1917. Serial No. 201,428. 3 Claims. (Cl. 72—71.)

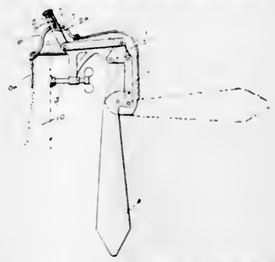


1. In a reinforced concrete floor, a concrete joist, a slab supported by said joist, members spaced longitudinally of the joist embedded jointly therein and in the slab, and a zig-zag bar embedded in the joist and having a series of projecting portions embedded in the slab, and bonding the same to the joist.

1,340,292. SIGNAL DEVICE FOR MOTOR-VEHICLES. JOSEPH M. RICE, Missoula, Mont. Filed Dec. 12, 1918. Serial No. 266,415. 2 Claims. (Cl. 116—5.)

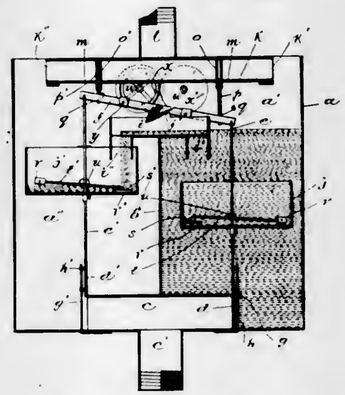
1. In a signal device for motor vehicles, a curved housing, a laterally operating control lever pivotally mounted in the housing, a signal arm pivotally and operably mounted in the housing and normally depending therefrom, connecting links contained within the housing and pivotally

connecting the control lever and the signal arm, a guard plate attached to the housing and slotted to accommo-



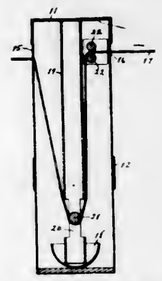
date the control lever, and a clamping means guarded by the housing.

1,340,293. METER FOR LIQUIDS. PATRICK JOSEPH ROACH and DANIEL CARTER, Toronto, Ontario, Canada. Filed Mar. 3, 1919. Serial No. 280,324. 8 Claims. (Cl. 73—28.)



1. A meter for liquids comprising two measuring compartments arranged to overflow into each other, a rocking beam, a pan within each compartment connected with the beam and adapted to receive the overflow from the other of said compartments and to overflow into its respective compartment, an outlet for each of said compartments, and controlling means rigidly connected to and moving unitedly with each pan for positively and instantaneously closing the outlet of one compartment before the liquid overflows into said compartment from the pan thereof.

1,340,294. TWINE-TREATING ATTACHMENT FOR BINDERS. JOHN ROWE, Casey, Iowa, assignor of one-half to S. R. Trotter, Casey, Iowa. Filed Aug. 25, 1919. Serial No. 319,793. 2 Claims. (Cl. 91—31.)



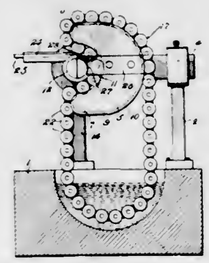
1. A device of the class described, comprising a receptacle, means for supporting the same on a binder, said receptacle being formed with opposite entrance and exit openings for twine near its upper end, a cover for said receptacle, a post fixed to the inside of said cover and adapted to extend downwardly to the bottom of said receptacle, anti-friction means at the lower end of said post for engaging twine and causing it to pass to the lower end of the receptacle, and rollers mounted in contact in said receptacle adjacent the exit opening, between which the twine is adapted to pass.

1,340,295. CLEANING APPARATUS FOR WELLS. GEORGE W. RUSSELL, Berryville, Ark. Filed July 26, 1919. Serial No. 313,522. 1 Claim. (Cl. 166—19.)



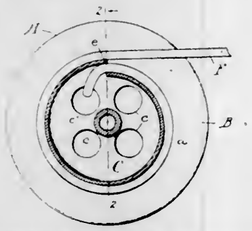
An apparatus of the character described comprising a bail open at its ends, means for closing the lower end, a cross head projecting from one end of said bail, the intermediate portion of said cross head having a recess, a plate pivoted to said cross head, said plate having a recess registering with the recess in the cross head, said plate and cross head coöperating to provide a socket, a suction piston mounted within the bail, and a rod for said piston slidably and detachably disposed in said socket.

1,340,296. WIRE-COILING MACHINE. ARTHUR G. SAILER, Massillon, Ohio, assignor to The Sailer & Melvin Manufacturing Company, Massillon, Ohio, a Corporation of Ohio. Filed Mar. 27, 1918. Serial No. 225,037. 6 Claims. (Cl. 153—65.)



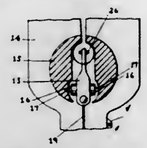
1. A machine for coiling wire comprising a vertically disposed head, bifurcations extending horizontally from said head, an endless chain of rollers arranged to move upon the periphery of the said head and bifurcations, a mandrel arranged between the said bifurcations and equidistant from the said bifurcations and the said head and spaced from the said chain and a wire guide arranged to feed wire into the said space.

1,340,297. MULTIPLEX-SHEAVE DRUM. JULIAN N. SCHIFF, New York, N. Y. Filed June 14, 1918. Serial No. 239,979. 2 Claims. (Cl. 242—117.)



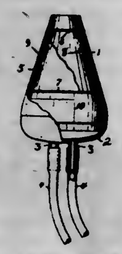
1. A multiple sheave drum provided on its periphery with a plurality of convolute grooves, one end of each of which communicates with the interior of the drum and a hub within the drum and spaced from the drum by an apertured web, whereby a cable may be secured to the drum by passing it through one convolute groove into the interior of the drum, thence through the apertured web, and out through another convolute groove.

1,340,298. REPRODUCER. CYRUS C. SHIGLEY, Grand Rapids, Mich., assignor to Electric Phonograph Co., Kalamazoo, Mich. Filed Nov. 25, 1918. Serial No. 264,035. 2 Claims. (Cl. 274—34.)



1. In a structure of the class described, the combination of a sound box, a diaphragm, a floating weight, a stylus lever mounted on said weight, and a headed suspending pin on said sound box, said weight being mounted on said pin and provided with spaced bearing projections resting on said head on opposite sides of the pin.

1,340,299. MOTOR-STETHOSCOPE. ORVALL SMILEY, Indianapolis, Ind. Filed May 24, 1919. Serial No. 299,524. 6 Claims. (Cl. 181—24.)



4. In a stethoscope receiver having a shell with an opening therein for the reception of sound waves, two diaphragms of different diameters spaced apart and supported by the shell upon the interior thereof in parallel relation with each other; a thin annular wall supported at its ends respectively by said diaphragms, there being an annular space between the exterior surface of the wall and the interior surface of the shell; and tubes communicating with that portion of the shell opposite its opening.

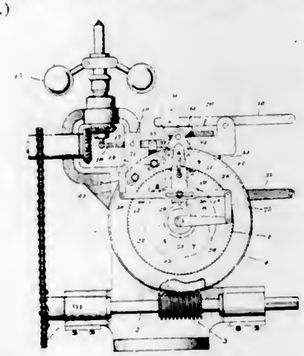
1,340,300. MOTOR-STETHOSCOPE. ORVALL SMILEY, Indianapolis, Ind. Filed Aug. 9, 1919. Serial No. 316,400. 5 Claims. (Cl. 181—24.)

1. In a stethoscope, a shell; a hollow probe extending from the shell and having a closed chamber therein; a series of diaphragms spaced apart within the shell one of which is rigidly fixed to the inner end of the probe; and a



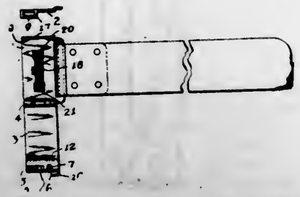
corresponding series of intervening tubes fixed between the diaphragms respectively.

1,340,301. AUTOMATIC CONTROL MECHANISM FOR HOISTING MACHINERY AND THE LIKE. DAVID G. STAFFORD, Phoenix, British Columbia, Canada. Filed Nov. 4, 1918. Serial No. 261,107. 9 Claims. (Cl. 74—46.)



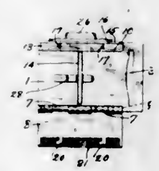
1. In automatic control apparatus of the class described, the combination of a journaled disk; means for driving said disk from the mechanism to be controlled; a circular rack on said disk; a rock arm journaled concentric with said disk and rack; a toothed block slidable longitudinally of said arm and adapted to engage the rack; a governor adapted to be driven from the mechanism to be controlled; connections whereby the governor may slide the toothed block; a control actuating device; a yoke-shaped rocker adapted to operate the control actuating device and embracing the outer end of the rocker arm whereby the rock arm when moved actuates the control actuating device.

1,340,302. BUCKLE. ALFRED J. STERNE, Scarsdale, N. Y. Filed Aug. 29, 1918. Serial No. 251,868. 10 Claims. (Cl. 24—168.)



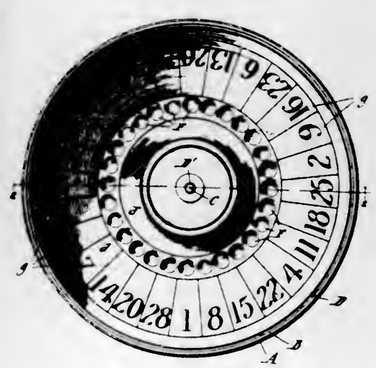
1. A buckle having a vertically-extending back or body member, a front or face member hinged to the back or body member at the lower edge thereof and provided with a catch mechanism for holding the front and back members in closed or folded position relative to each other, and a movable vertically-extending gripping member located between said hinged members of the buckle when they are in closed position and coöperating with said face member to grip a strap.

1,340,303. BUCKLE. ALFRED J. STERNE, Scarsdale, N. Y. Filed Mar. 19, 1919. Serial No. 283,561. 10 Claims. (Cl. 24—194.)



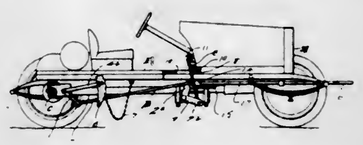
1. A buckle comprising in combination a body member, a front member hinged thereto, a gripping member between said body member and said front member and coöperating with the latter for gripping a strap, and means independent of the strap for automatically moving the gripping member into operative position.

1,340,304. EDUCATIONAL TOY. GOTTLIEB TAUSSIG, New York, and CARL WAGENFOHR, Brooklyn, N. Y. Filed Dec. 5, 1917. Serial No. 205,617. 1 Claim. (Cl. 46—56.)



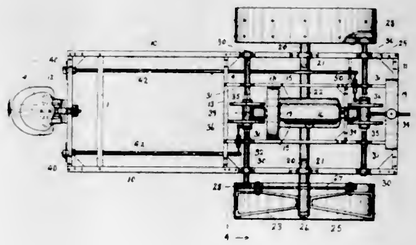
An educational toy embodying a cylindrical casing provided with a closed bottom and an open top, a rigid upstanding post mounted in the center of the bottom of said casing and extending upwardly co-axially of the casing, and a bearing seat on said post, in combination with a circular disk of slightly less diameter than the casing positioned interiorly of the casing appreciably below the upper edge of the side thereof with its outer circumference immediately adjacent the interior side wall of the casing, a tubular hub rigid with the disk and surrounding the post to provide a finger piece, whereby the disk may be spun around while supported on the seat of the post, said disk being provided with an annular channel extending inwardly from its outer periphery for a portion of the radius of the disk, and at the lower portion of which channel is formed an annular series of pockets into which a ball or sphere may come to rest when the centrifugal action of the spinning disk ceases, and said disk being lined radially to divide the surface thereof into radial spaces, each of which is provided with a designation or character corresponding to the juxtaposed pocket, the inner surface of the side wall of the casing above the disk serving as an abutment to preclude the ball from being thrown clear of the disk during the rotation thereof.

1,340,305. AUTOMATIC SAFETY-STOP. HARRY C. TAYLOR, West Frankfort, Ill. Filed Feb. 25, 1919. Serial No. 279,110. 1 Claim. (Cl. 180—83.)



In a stop mechanism of the character described, the combination with an automobile of a rockably mounted crank shaft extending transversely thereof in advance of and adjacent the rear wheels of the automobile, brake blocks mounted on said shaft and positioned to be lowered beneath and in front of said rear wheels, a bell crank lever, connections between one arm of said lever and the crank shaft for rocking said shaft, a vertically movable setting rod connected to the other arm of said bell crank lever, said rod being provided with a transverse groove intermediate its ends, a setting pin positioned for engagement into said groove for normally holding the rod in lowered position, a bumping bar projecting forwardly of the automobile, and a tripping bar connected to said bumping bar so as to be forced rearwardly thereby, said tripping bar being positioned in front of and closely adjacent the setting rod so as to force the same rearwardly out of engagement with said setting pin upon rearward movement of the bumping bar so as to release the crank shaft and permit downward movement of said braking blocks into operative position, and spring means for retaining the setting rod in engagement with the pin.

1,340,306. TRACTOR. HERBERT W. TRUSCOTT, Omaha, Nebr. Filed Jan. 23, 1920. Serial No. 353,593. 2 Claims. (Cl. 180—17.)

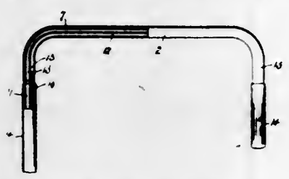


1. In tractor, a frame, a traction wheel at each side of the frame, a gear wheel mounted on each traction wheel, front and rear counter shafts mounted transversely in the frame, a pinion on one end of each counter shaft intermeshing with the adjacent gear wheel of the traction wheel with one pinion forward and the other pinion in rear of the axis of rotation of the traction wheels, a motor arranged in the frame between the counter shafts, and independent shiftable connections between the counter shafts and the respective ends of the motor.

1,340,307. BOW FOR AUTOMOBILE-TOPS. JOSEPH VETTER, Toledo, Ohio. Filed Aug. 27, 1918. Serial No. 251,618. 1 Claim. (Cl. 296—118.)

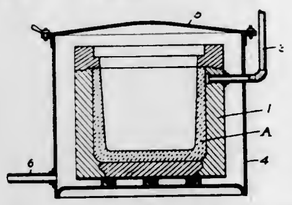
A top bow having hollow telescopically connecting leg and bow sections, the bow section having a longitudinally-extending channel in one side thereof, and an internal longitudinally-extending web spaced from the inner and outer sides of the bow sections and forming the bottom of

said channel, said web being provided at its ends with eyes, and a spring tongue within the telescoping end of each



leg section for insertion into the bow at one side of said web and to releasably engage within one of said adjacent eyes.

1,340,308. METHOD OF MAKING EARTHENWARE ARTICLES. WARREN S. WILLIAMS, Rochester, Pa., assignor to H. C. Fry Glass Company, Rochester, Pa., a Corporation of Pennsylvania. Filed July 28, 1919. Serial No. 313,822. 5 Claims. (Cl. 25—156.)



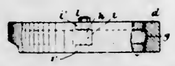
1. The method herein described of making a molded article which consists in teeming a grout of the material of which the article is to be formed mixed with water into a mold cavity of moisture-absorbing walls, allowing the teemed-in material to acquire coherence, exposing the newly formed article to elevated pressure, and finally subjecting the article to finishing operations.

1,340,309. AIR-NAVIGATING VESSEL. HENRY CHR. WOERZ, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,449. 7 Claims. (Cl. 244—6.)



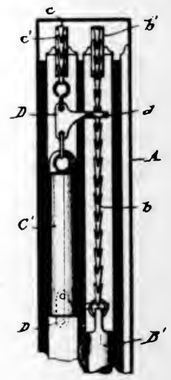
1. The combination with an air navigating vessel, of rotary means, secured to the carrying body and capable of engaging endless bands, a plurality of endless bands upon aforesaid rotary means, means, hingedly connected to said endless bands, adapted to be automatically actuated by the wind to impart motion to said endless bands.

1,340,310. ANTIFRICTION-BEARING. GEORGE WOLFF, Paterson, N. J. Filed Apr. 30, 1919. Serial No. 293,690. 4 Claims. (Cl. 64—59.)



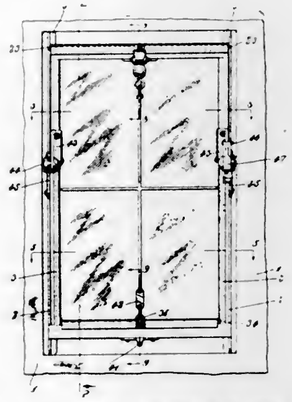
2. In combination, with the shaft member and the supporting member thereof penetrated thereby, means interposed between them including an annular bearing device having a continuous race and a plurality of rolling elements in rolling contact with said race, said bearing device including a pair of segmental sections jointed together, each joint consisting of a tongue on one section and a pair of spaced ears on and forming a recess in the other section receiving and conforming in shape to the tongue, and said bearing device also including a securing device extending through the tongue and ears of each joint, and means to secure said bearing device to one of said members including a cone jammed between said device and the latter member and formed concentric therewith.

1,340,311. FIREPROOF WINDOW-CLOSING MEANS. JOHN W. YATES, New York, N. Y. Filed June 5, 1917. Serial No. 172,962. 4 Claims. (Cl. 189—74.)



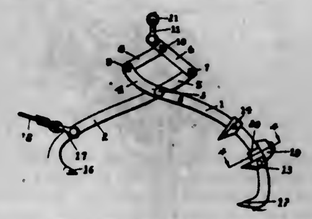
1. A construction of the character described embodying upper and lower sashes, a pair of sash cord pulleys associated with each sash, sash weights for each sash and a single sash cord secured to each lateral edge for each sash, extending upwardly over the corresponding sash cord pulley and secured at its opposite end to a sash weight, in combination with means controlled by excessive heat for releasing the sash cords from the lower sash to entirely disconnect the counterbalancing weights therefrom to allow the lower sash to gravitate to closed position, and means included in the sash cord connections between the lower sash and its counterbalancing weights, and independently of the latter, for imposing the weight of the thus released sash weights of the lower sash on the sash cords of the upper sash, whereby the upper sash is overbalanced and automatically raised to closed position.

1,340,312. FIREPROOF WINDOW. JOHN W. YATES, New York, N. Y. Filed May 4, 1918. Serial No. 232,438. 8 Claims. (Cl. 189—71.)



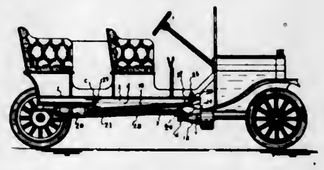
1. A fire proof window embodying a sash, a frame, a locking plate pivoted near the top of the frame and adapted, when the window sash is in closed position to overhang the top of the sash, a pivoted weighted latch adapted to release the locking plate, means for actuating the latch, the release, the locking plate and a chain, containing a fusible link, for maintaining the sash in open position, but permitting it to automatically close in the event of fire owing to the heat disrupting the fusible link.

1,340,313. LOGGING GRAPPLES OR TONGS. ARTHUR J. ZIPP, Charlevoix, Mich. Filed Dec. 26, 1919. Serial No. 347,496. 8 Claims. (Cl. 294—66.)



8. In a structure of the class described, the combination of a pair of grapple members, draft means connected to one of the said grapple members whereby the grapple is held in open position, a bar mounted upon the other grapple member end for supporting the grapple in an upright position, and hoisting connections independent of said draft means for closing the tongs, coacting as specified.

1,340,314. AUTOMOBILE-HEATER. ANDREW J. ADAMSON, Winner, S. D. Filed Dec. 20, 1919. Serial No. 346,376. 3 Claims. (Cl. 237—12.3.)



1. An automobile heater comprising a casing adapted to be secured beneath the floor of an automobile and opening at its forward end into the engine space beneath the hood, a normally closed door at the rear end of the casing adapted to trap heated air from the engine in the casing and against said floor of the automobile to heat the body thereof, a normally closed door in the bottom of the casing at the forward end thereof having its rear end hinged to the casing to permit the door to swing down beneath the casing bottom and from a deflector for directing cool air from the outside atmosphere into the casing, and means for simultaneously opening both of said doors for liberating the entrapped heated air and creating a cooling draft through the casing to mingle with and rapidly carry off the heated air from the engine.

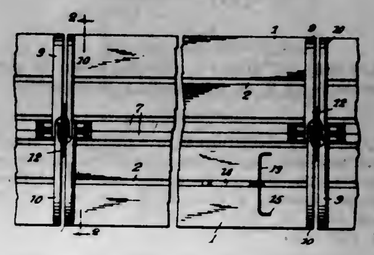
1,340,315. CLEANSING COMPOUND AND PROCESS OF MAKING SAME. ERICH BAUM, Nuremberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 28, 1913. Serial No. 803,377. 4 Claims. (Cl. 87—5.)

1. A cleansing compound consisting of a solution containing a neutral soap, trichlorethylene and kerosene.

1,340,316. METHOD OF MAKING LUBRICANTS. CHRISTOPHER H. BIERBAUM, Buffalo, N. Y. Filed Oct. 6, 1914. Serial No. 865,323. 4 Claims. (Cl. 87—9.)

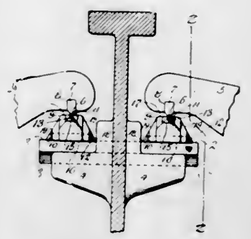
4. The herein described method of freeing natural flocculated graphite from its earthy substances or impurities, which consists in mixing with the impure flocculated graphite a quantity of water free from deflocculating material, sufficient to satisfy the affinity of the graphite and its impurities, adding to the mixture a hydrocarbonous substance having a greater affinity for the graphite than for the impurities in sufficient quantity to satisfy the affinity of the graphite, agitating the mixture, and removing the separated impurities from the remainder of the mixture.

1,340,317. BOOK-SHELF. WILLIAM ALANSON BORDEN, Westport, Conn., assignor to The Borden Book Stack Company, Westport, Conn., a Corporation of Connecticut. Filed May 26, 1917. Serial No. 171,080. 5 Claims. (Cl. 45—54.)



1. A book shelf comprising a thin metal bottom having a depressed channel formed therein and extending the full length thereof, the sides of the channel being turned outward at its ends to form flaps, and two end brackets provided with supporting hooks and riveted at their lower edges to said flaps, whereby the brackets are rigidly held in upright position.

1,340,318. SCALE. WILLIAM WALLACE BOYD, Buffalo, N. Y., assignor to Buffalo Scale Company, Buffalo, N. Y., a Corporation of New York. Filed Feb. 11, 1918. Serial No. 216,590. 9 Claims. (Cl. 265—71.)

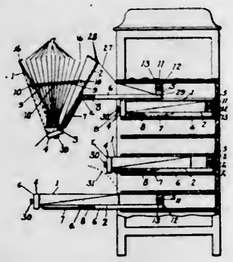


1. In a scale, the combination of an intermediate lever provided on its opposite sides with upwardly-facing bearings, two side levers arranged on opposite sides of the intermediate lever at right angles thereto and each provided with a downwardly-facing bearing, and a bearing block interposed between the bearing of one side lever and one of the bearings of the intermediate lever and provided with an anti-friction point facing said intermediate lever.

1,340,319. PORTFOLIO-DRAWER. FOUNTAIN S. BRAID, New York, N. Y. Filed Oct. 29, 1918. Serial No. 260,113. 4 Claims. (Cl. 45—96.)

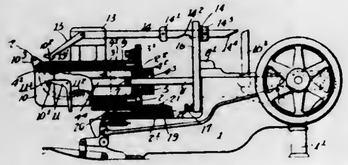
1. In combination, with a portfolio-drawer, a cradle formed of back and bottom pieces designed to rest upon the shelf of a cabinet for support, being free to move

thereon, devoid of any guide pieces or fastenings to either shelf or cabinet, and upon which the portfolio-drawer may



rest and silde, the straps 7, engaging with the portfolio-drawer supports 8, all substantially as set forth.

1,340,320. CRIMPED-ELBOW-BENDING MACHINE. JOHN MOOTERY BROWN, Hamilton, Ontario, Canada, assignor to The Brown, Boggs Co. Limited, of Hamilton, Ontario, Canada, a Joint-Stock Company of Ontario. Filed July 24, 1919. Serial No. 312,917. 6 Claims. (Cl. 153—32.)



1. In a crimped elbow bending machine, the combination with the outer cylinder suitably supported on the frame, of an inner cylinder forming an interior annular chamber to receive a crimped blank with the outer cylinder, means for contracting the crimps within the chamber, and means for ejecting the contracted pipe and bending the same as it is being ejected.

1,340,321. BRAKE. PERRY BROWN, Coraopolis, Pa.; Margaret J. Brown executrix of said Perry Brown, deceased. Filed Nov. 14, 1916. Serial No. 131,316. 30 Claims. (Cl. 74—112.)



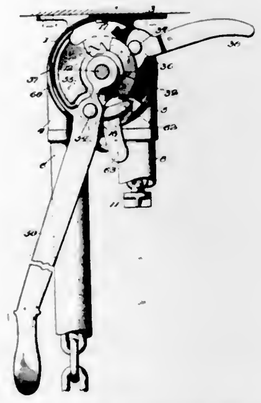
1. In a brake, the combination of a casing adapted to be secured entirely upon one side of a car wall, a drum within said casing having ratchet teeth near opposite ends thereof, operating devices co-acting with said ratchet teeth to independently operate said drum to apply the brake, one of said operating devices adapted to extend through the wall of a car, and a dog coacting with one set of said teeth to prevent counter-rotation of said drum.

1,340,322. HAND-BRAKE FOR RAILWAY-CARS. PERRY BROWN, Coraopolis, Pa.; Margaret J. Brown executrix of said Perry Brown, deceased. Filed Nov. 14, 1916. Serial No. 131,317. 7 Claims. (Cl. 74—118.)



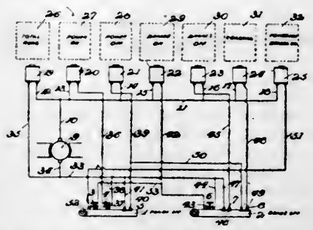
1. In a brake, the combination of a casing, a ratchet wheel in said casing, a braking member operated from said ratchet wheel, means for rotating said ratchet wheel comprising a handle projecting out of said casing, a dog having a portion thereof entering the casing and co-acting with the ratchet wheel to hold the same from counter-rotation and provided with a handle extending outside of the casing, and a lock or latch pivotally supported by said dog and movable into position to lock said dog into engagement with the ratchet wheel within the casing.

1,340,323. HAND-BRAKE FOR RAILWAY-CARS. PERRY BROWN, Coraopolis, Pa.; Margaret J. Brown executrix of said Perry Brown, deceased. Filed Dec. 12, 1917. Serial No. 206,806. 30 Claims. (Cl. 74—115.)



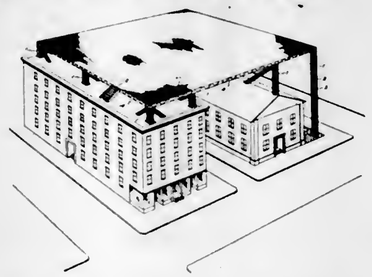
1. In a hand brake for cars and the like, the combination of a casing, a brake tightening element, a ratchet wheel, a hand lever, a pawl operated from said lever co-acting with said ratchet wheel, and a handle on said pawl projecting through the casing, whereby an operator may move the pawl handle to move or hold the pawl out of engagement with said ratchet wheel.

1,340,324. REGISTERING MECHANISM FOR VEHICLES OR TRACTORS. ALONZO MORRIS BUCK, Elizabeth, N. J. Filed May 8, 1918. Serial No. 233,353. 37 Claims. (Cl. 161—15.)



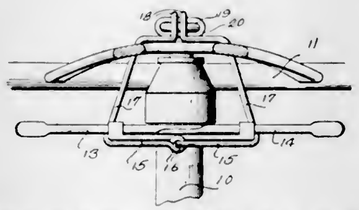
1. In an apparatus for registering the characteristics of a run of a vehicle or tractor, in combination with the motor thereof and its power-controlling and brake-controlling systems, registering mechanism, electrical means for controlling the operation of said registering mechanism, a circuit including said controlling means, switches in said circuit respectively operated by elements in said power-controlling and said brake-controlling systems, and a generator for supplying said circuit with current driven by the movement of said vehicle or tractor.

1,340,325. LANDING-STAGE FOR AEROPLANES. JOHN A. CAULKINS, Hartford, Conn. Filed May 10, 1919. Serial No. 296,198. 7 Claims. (Cl. 244—2.)



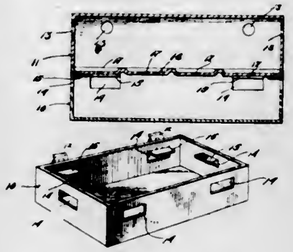
1. A landing and launching stage for aeroplanes comprising supporting columns of suitable height, horizontally arranged girders connecting the tops of the columns, cables extending between and supported by the girders, and a reticular metallic flooring laid upon the cables and extending between the girders.

1,340,326. AUTOMOBILE-LOCK. JOSEPH L. CHACKAN, Mammoth, Pa. Filed July 8, 1918. Serial No. 243,850. 1 Claim. (Cl. 70—126.)



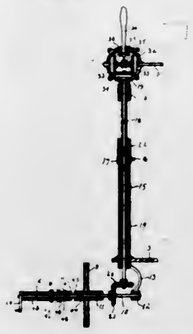
A device for securing the spark and gas levers of an automobile comprising a pair of duplicate U-shaped members each formed of a strand of heavy rod metal bent to provide a straight intermediate portion and laterally directed end portions, said end portions of one member being directed toward the corresponding end portions of the other member, one set of end portions being bent to provide interlocking eyes loosely connecting the members and the second set of end portions being bent to provide unconnected eyes extending at approximately right angles to their end portions and in parallel relation to each other to receive a locking element adapted to pass through the eyes when positioned in operative relation.

1,340,327. SOAP-DISH. THOMAS RHEA CONNER, Sylvan, Pa. Filed Jan. 31, 1918. Serial No. 214,740. 1 Claim. (Cl. 45—28.)



A soap box comprising a body having upstanding walls, tongues struck from the walls and bent inwardly and upwardly to provide supports, a cover hingedly connected with said body and having its walls provided with ventilating openings, and a removable plate positioned in the body and resting upon the supports and constituting a tray, the plate being provided with transversely extending lines of ventilating openings and being pressed upwardly between the lines of ventilating openings to provide soap engaging ribs.

1,340,328. DRIVING MECHANISM FOR WASHING-MACHINES. ARTHUR B. COOLING, Sterling, Ill., assignor to Superior Machine Company, Sterling, Ill., a Corporation of Illinois. Filed Aug. 14, 1911. Serial No. 644,035. 35 Claims. (Cl. 74—101.)



1. In a driving mechanism, the combination with a tubular support, a hollow shaft mounted therein, and a drive shaft journaled in said hollow shaft, of a part to be operated supported on said hollow shaft and including a driven shaft, a bearing member carried by said hollow shaft and supporting said driven shaft, and a driving connection disposed within the bearing member, between the drive and driven shafts including means for reversing the rotation of said driven shaft.

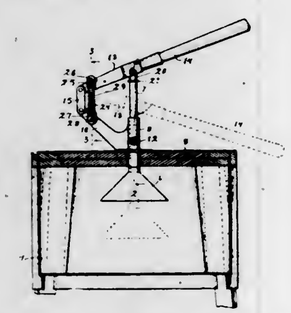
2. In a device of the character described, in combination, a frame, a driving shaft, means for operating said shaft, a support swingable on said shaft, a driven shaft on said support, reversible actuating gears loosely mounted on said driven shaft, means for alternately clutching said gears to said driven shaft, and a mechanism on said swingable support adapted to be operated by said gears.

21. In a machine of the class described, a support, a vertical shaft thereon, means to drive said vertical shaft, a frame adapted to swing about said vertical shaft in a horizontal plane, a pair of adjacent roller shafts arranged one above the other supported in said frame, driving means whereby said roller shafts may be driven in any position of the support relative to the vertical shaft.

31. In a machine of the class described, a supporting frame, a horizontal driving shaft, a vertical shaft, means for operating the vertical shaft from the horizontal shaft, a horizontally disposed wringer operating mechanism comprising a pair of roller shafts, a bearing about the vertical shaft for said operating mechanism to adapt said mechanism to be moved in the arc of a circle around said vertical shaft, means for locking the operating mechanism in different adjusted positions, and gearing connecting with said mechanism for transmitting motion thereto from the vertical shaft.

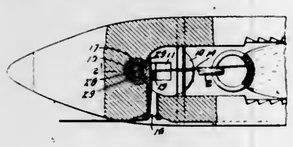
32. The combination of a pivotally supported mechanism adapted to be moved in the arc of a circle, driving gearing adapted for operating the mechanism including a part for imparting opposite directions of rotation to the mecahnism elements, part of said gearing being mounted on said member to move therewith, and manually operated means for controlling said gearing.

1,340,329. DRIVING MECHANISM FOR WASHING-MACHINES. HERMAN C. DOMAN, Oshkosh, Wis., assignor, by mesne assignments, to Frank Novotny and Joseph Kastohryz. Filed July 2, 1917. Serial No. 178,174. 2 Claims. (Cl. 74—14.)



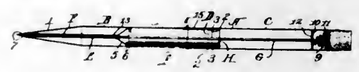
1. A washing machine comprising a centrally bored bearing member, a shaft journaled in said bore for an oscillating and reciprocating movement, a lever having one end pivotally connected with the washing machine and an operating handle formed on its other end, a sleeve member freely rotatably mounted on the upper end of said shaft, and trunnions connecting said sleeve member with said lever intermediate its ends to pivotally connect said lever and shaft and at the same time permit the free rotation of the shaft.

1,340,330. SHUTTLE TENSION. RICHARD E. ENOS, Baltimore, Md. Filed Nov. 11, 1919. Serial No. 337,349. 9 Claims. (Cl. 139—46.)



1. A shuttle tension comprising a tension-applying member, a tension-exerting member, a tension-adjusting member, and means actuated by the tension-exerting member to lock the tension-adjusting member against movement.

1,340,331. PENCIL. HOWARD L. FISCHER, St. Paul, Minn., assignor, by mesne assignments, of one-half to Frank J. Kristofek, St. Paul, Minn. Filed Dec. 27, 1916. Serial No. 139,102. 6 Claims. (Cl. 120—17.)



1. In a pencil of the class described having a forward portion formed of thin shell-like tubing, a conical point formed on said forward portion, a thin lead holding tube, positioned axially in said forward portion, a conical rear portion formed on said lead holding tube, spring jaws formed integral with said lead holding tube and extending out of the apex of said conical forward portion of said pencil, a rear tubular shell-like portion adapted to slide over the rear end of said forward shell-like portion, means to hold the rear portion against rotation on the forward portion, an ejector rod fixed in said rear portion and resilient means for operating said ejector rod in one direction automatically.

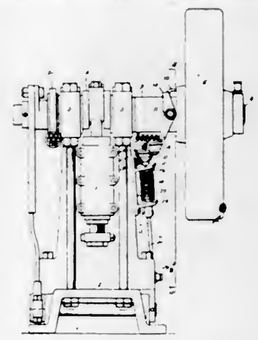
1,340,332. FROST-CASING. JAMES R. FITZPATRICK, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed Feb. 8, 1919. Serial No. 275,748. 5 Claims. (Cl. 154—45.)



1. The combination with a riser, of a plurality of concentric shells of laminated wood veneer surrounding the same, and spacing members between the riser and the inner shell and between each two adjacent shells for holding them apart and forming within each shell a series of air chambers separated from each other.

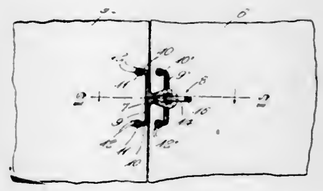
1,340,333. SAFETY CONTROL FOR POWER-PRESSES AND THE LIKE. MERLE C. FRANCE, Cleveland, Ohio. Filed Aug. 12, 1918. Serial No. 249,477. 11 Claims. (Cl. 74—46.)

1. In a safety control for power presses and the like, a revoluble shaft; driving means for said shaft comprising a revolving member provided with a driving projection; a striker mounted for rotation with said shaft, adapted to engage said projection; yielding means for moving said striker into position to engage said projection and rotate said shaft, said striker being provided with a cam adapted to engage a stop member normally held in the path of rotation of said striker to cause the disengagement of said striker and said projection; controlling means comprising two plungers one telescoped within the other, the outer of said plungers being longitudinally movable into and out of the path of said striker, the inner of said plungers being provided with an enlarged head forming a shoulder normally resting upon the end of the outer of said plungers and extending radially beyond the side thereof, said inner plunger being longitudinally movable to permit said head to engage said cam, said outer plunger and the head of said inner plunger constituting stop members; means for moving said outer plunger out of the path of said striker, said striker having a shoulder adapted to engage said shoulder on said inner plunger to hold the latter out of the path of said striker until said



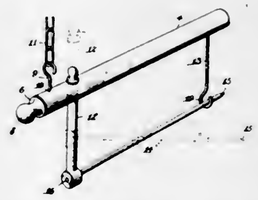
shaft has turned a portion of a revolution, said inner plunger being adapted, when its shoulder has been released by said striker, to move into the path of said striker to engage said cam and cause the disengagement of said striker from said projection.

1,340,334. HOOK AND EYE. ELLA NEILSON GAILLARD, New York, N. Y. Filed Feb. 1, 1919. Serial No. 274,505. Renewed Oct. 4, 1919. Serial No. 328,587. 3 Claims. (Cl. 24—226.)



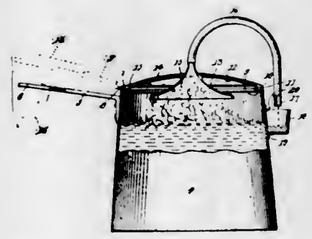
1. A hook and eye comprising male and female members, the female member being provided with a loop, the male member being provided with a tongue bent rearwardly upon itself, said tongue and rearwardly bent portion being adapted to enter said loop, and a second tongue carried by the rearwardly bent portion and spaced therefrom.

1,340,335. HOLDER FOR PAPER BAGS AND SIMILAR ARTICLES. JOSEPH G. GROFF, Buffalo, N. Y. Filed Feb. 10, 1920. Serial No. 357,553. 10 Claims. (Cl. 211—2.)



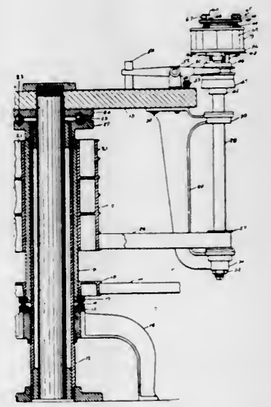
1. A bag holder, comprising a support, a member depending from and fixed to said support, a combined slidable and rotatable member retained on said support and arranged parallel with said fixed depending member, and means on said combined slidable and rotatable member onto which paper bags are adapted to be secured, said means being held in engagement with said fixed depending member to prevent rotation of said combined slidable and rotatable member.

1,340,336. MILK-BOILER. MICHAEL HANKULICH, Stockdale, Pa. Filed Sept. 16, 1919. Serial No. 324,161. 3 Claims. (Cl. 53—1.)



3. A milk boiler comprising a container, a cover hinged thereon, a bell-shaped member carried by the lower side of said cover, a conduit exteriorly of said cover in communication with said bell-shaped member and a drip pan carried exteriorly of said container in communication with said conduit.

1,340,337. PROCESS AND APPARATUS FOR LINING A BEARING-SHELL. FRANK C. HEATH, Detroit, Mich., assignor, by mesne assignments, to Lawrence Olsen, Indianapolis, Ind. Filed July 13, 1918. Serial No. 244,686. 2 Claims. (Cl. 22—65.)

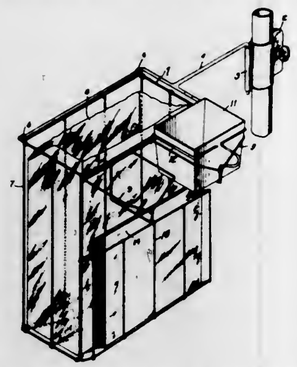


1. The combination, with a supporting table, of a plurality of rotatable frame members arranged about the periphery thereof, and individually connected with a distributing source of power, each of said frame members being provided with means for holding a cylindrical shell member upon its top surface in coaxial position with its center of rotation.

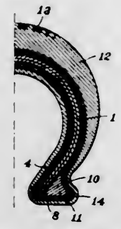
1,340,338. SANITATION APPLIANCE. CHRISTIE H. HENDERSON, Oakland, Calif. Filed Jan. 14, 1919. Serial No. 271,013. 1 Claim. (Cl. 5—41.)

A device of the character described comprising a clamp adapted to be secured to the right or left head post of a bed, an arm pivotally mounted in said clamp, a basket, a bracket on one side of said basket, and means for remov-

ably supporting said basket on said arm whereby the basket may be reversed to enable said bracket to lie in advance of said basket as the latter is swung inwardly over the right or left side of the bed.



1,340,339. TIRE. JOSEPH H. HILL, Wilmington, Del. Original application filed Sept. 8, 1911. Serial No. 648,390. Divided and this application filed Jan. 12, 1915, Serial No. 1,722. Renewed Oct. 3, 1919. Serial No. 328,333. 2 Claims. (Cl. 152—13.)

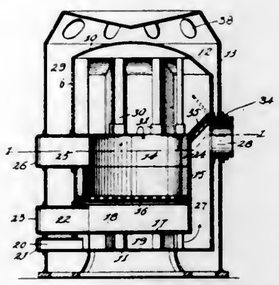


1. An open bellied tire body adapted to contain an inner tube and comprising a series of layers of rubber formed by a plurality of convolutions of a continuous uncut rubber tube and alternating with a series of layers of fabric formed by a plurality of convolutions of a continuous tube of uncut fabric, said tubes of rubber and fabric being folded so as to have an inner slot for the insertion of the inner tube and vulcanized in folded position so as to form an integral open bellied tire body.

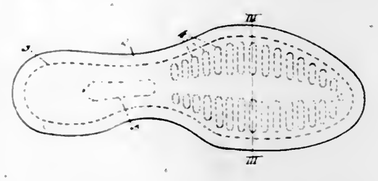
2. An open bellied tire body adapted to contain an inner tube and comprising a series of inner and outer layers of rubber formed by a plurality of convolutions of a continuous uncut rubber tube and alternating with a series of layers of fabric formed by a plurality of convolutions of a continuous tube of uncut fabric, said tubes of rubber and fabric being folded so as to have an inner slot for the insertion of the inner tube, and an intermediate layer of rubber between said inner and outer layers of fabric and rubber and formed by a continuous flattened rubber tube adhering to said fabric tube and vulcanized in folded position so as to unite said inner and outer layers of fabric in the form of an integral open bellied tire body.

1,340,340. HOT-AIR FURNACE, STOVE, AND THE LIKE. CHARLES HILLER, St. Louis, Mo., assignor of one-half to Samuel G. Stahlhuth, St. Louis, Mo. Filed May 3, 1919. Serial No. 294,500. 1 Claim. (Cl. 126—99.)

A furnace of the class described, comprising an inner heating compartment consisting of a shell of sheet material bent and shaped to form a plurality of diving flues, a lining placed therein and covering a portion of said flues, detachable flame shields placed on the top of the shell and against the contacting walls of the diving flues, a fire-box located in said shell, an ash-pit below the fire-box, an outer compartment incasing the inner heating compartment which inner compartment is located centrally therein, the diving flues being arranged for equally distributing the heat in the entire outer compartment and for directing the heat downwardly passing under the base of the inner compartment before entering the chimney and a damper for permitting a direct draft to the fire-box when first kindling the fire, substantially as specified.



1,340,341. SOLE. HALBERT K. HITCHCOCK, Pittsburgh, Pa. Filed Dec. 17, 1917. Serial No. 207,418. 2 Claims. (Cl. 36—30.)



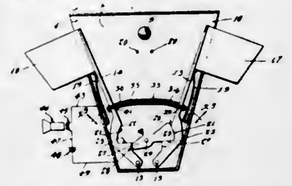
1. A sole comprising a resilient wearing element of rubber composition, a sheet of relatively stiff reinforcing material therefor, and an upper element also of rubber composition similar to that of the wearing element but containing more filler and relatively less resilient and adapted to set to the shape of the foot, the said wearing element and upper element having their opposing surfaces cured together so as to form a substantially integral structure.

1,340,342. ART AND APPARATUS FOR MAKING PRINTING-SURFACES. STEPHEN H. HORGAN, Orange, N. J. Filed Sept. 13, 1919. Serial No. 323,509. 7 Claims. (Cl. 41—33.)



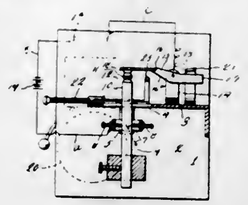
1. The process of making color separation cylindrical printing surfaces which consists in making a key printing surface, printing a plurality of impressions from said key surface, painting upon the several impressions the component colors of the multicolor print to be reproduced, covering said paintings with transparent sheets, transferring marks from a shading film to said transparent sheets at the places where the color shows through, backing a carbon tissue with a metallic backing, photo-printing through said marked transparencies upon the gelatin surface of the sensitized carbon tissue, transferring said gelatin surfaces while so backed to the surfaces of metal rollers, removing said metallic backing and transforming said rollers into rotogravure printing surfaces.

1,340,343. DIRECTION-INDICATOR. ROBERT BOWERS POLLOCK, Los Angeles, Calif. Filed Dec. 30, 1918. Serial No. 268,906. 10 Claims. (Cl. 177—327.)



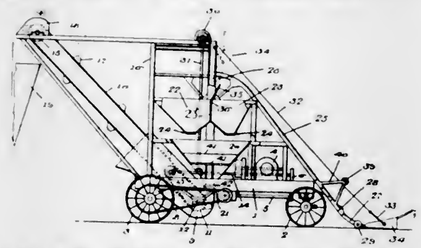
10. A direction indicator comprising visual signals, means to display the signals independently and together, and means operative by the display of one visual signal to make an auditory signal and operative by the display of the other visual signal to make a different auditory signal and operative by the display of both signals to make a still different auditory signal.

1,340,344. CIRCUIT-CLOSER FOR VEHICLE-ALARMS. FREDERICK C. POTTER, Omaha, Nebr. Filed June 7, 1919. Serial No. 302,625. 3 Claims. (Cl. 200—52.)



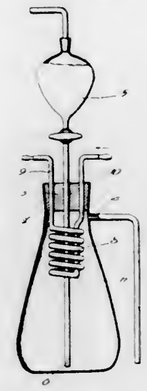
3. A circuit closer comprising a pivoted and universally supported pendulum, a pivoted lever, the free end of said lever engaging and being normally insulated from the pendulum, said universal supporting of the pendulum allowing the pivoted lever to drop below the insulating means between the pendulum and the lever and contact with said lever when the circuit closer is moved.

1,340,345. CONCRETE-MIXER LOADER. VIRGIL MACNEIL PRICE, Alameda, Calif. Filed June 12, 1919. Serial No. 303,548. 5 Claims. (Cl. 214—105.)



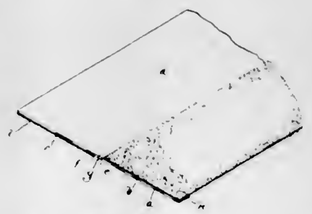
1. A loader for a mixing machine embodying holding hoppers for different materials having a partition between them, an incline having its upper end overhanging said partition, a scoop to move up said incline and discharge over the upper end thereof above said partition, means for pulling the scoop from a distance to and up the incline, a chute hinged to said partition and swingable to either side to deflect the respective materials from the chute into the proper hoppers, said hoppers having independent manually-operable discharge valves, and means for receiving the materials from the hoppers when said valves are opened and graduated to indicate the amounts of materials received, and for delivering same to a mixing machine after the graduated quantities of materials are received.

1,340,346. ANALYTICAL APPARATUS. HARRIE B. PULSIFER, Butte, Mont., assignor to Schaar & Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 22, 1919. Serial No. 346,464. 3 Claims. (Cl. 23—3.)



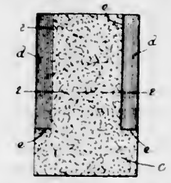
3. In an analytical apparatus, the combination with a flask having a throat in its upper end and having a side connection for the delivery of gas, and a closure for said throat, of an acid tube extending through said closure to the interior of the flask, and a cooling coil surrounding said acid tube adjacent to the lower face of the closure, said cooling coil having its end portions extending up through the closure to the outside of the closure, substantially as described.

1,340,347. ROOFING ELEMENT. CHESTER E. RAHR, Brookline, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1918. Serial No. 258,523. 6 Claims. (Cl. 108—7.)



1. A roofing element comprising a fibrous asphalt-impregnated foundation having its opposite faces coated with asphaltic material in zones, parallel with the top and bottom edges thereof, with fire-resistant material, the coated zone of one face being opposite the uncoated zone of the other face.

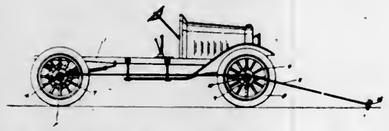
1,340,348. ROOF-SHINGLE. CHESTER E. RAHR, Brookline, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1919. Serial No. 347,679. 3 Claims. (Cl. 108—8.)



1. A flexible asphalt shingle, having a coating of asphalt and a surface layer of crushed mineral material partially

embedded therein, and having, along its side edges, marginal portions in which the asphalt coating is exposed, said marginal portions terminating in a transverse line spaced from the bottom edge of the shingle.

1,340,349. PULL-OUT DEVICE FOR MOTOR-VEHICLES. FRANK A. SNIDEMAN, Gary, Ind. Filed Nov. 7, 1918. Serial No. 261,437. 4 Claims. (Cl. 254—166.)



1. The combination with a motor vehicle having a rear driving wheel and a front steering wheel, of spindles detachably secured to the wheels in alinement with their axes, an anchor cable secured to the rear spindle to be wound thereon, and guide sleeves rotatably mounted on said spindles, the rear guide sleeve having a longitudinal slot therein through which the cable is disposed, the sleeve on the front spindle having openings therein through which the cable is disposed.

1,340,350. STRAP AND FASTENING. FREDERICK W. THORNE, Chicago, Ill. Filed May 9, 1919. Serial No. 295,969. 2 Claims. (Cl. 217—66.)



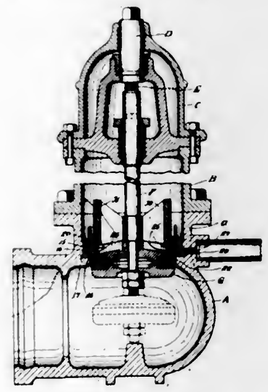
2. The strap-securing device described comprising a body and two pairs of lateral wings projecting from the body, the first pair of wings projecting from opposite side edges of one end portion of the body, and the second pair projecting from opposite side edges of the opposite end portion, said two pairs being spaced apart from each other longitudinally of the body a distance very slightly exceeding the thickness of the strap, the body having means at the opposite side from the first pair of wings for engaging the strap.

1,340,351. OUTER GARMENT. RICHARD A. WHALL, Athol, Mass. Filed May 15, 1919. Serial No. 297,246. 1 Claim. (Cl. 2—60.)



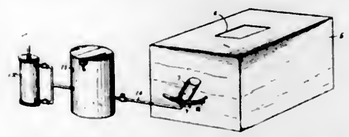
An outer garment comprising a substantially rectangular oblong body of water proof sheet material, sleeve forming wings projecting from the opposite longitudinal edges of the body midway between the ends thereof, the body and wings being folded along the transverse median line of the body to form front and back body and sleeve portions having meeting edges, said edges being provided with laterally projecting stud fastener members projecting from the inner side of the body and with socket fastener members complemental to the stud members and opening on the inner side of the body, the arrangement being such that when the body and wings are folded on said median line the stud members are movable into engagement with the socket members to hold the edges of the front and back body and sleeve portions side by side in substantially parallel planes without causing the connected edges to overlap, so that ventilating crevices are formed at said edges, said body being provided with a head and neck receiving opening at its transverse median line, and a collar-forming flap attached at one edge to the back portion of the body, unattached to the front portion, and formed to cover said opening and to overlap and lie loosely on a part of the front portion when the garment is in use, thereby permitting ventilation through the neck opening, said flap having end portions adapted to overlap under the wearer's chin, and provided with fastening devices.

1,340,352. WATER-HYDRANT. WILLIAM F. WHITMORE, West Hartford, Conn. Filed July 28, 1917. Serial No. 183,207. 6 Claims. (Cl. 137—13.)



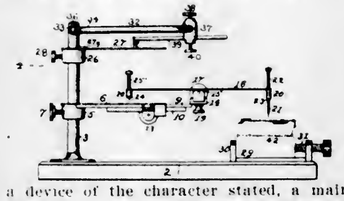
1. In a hydrant, the combination with a base, of a removable valve seat ring of non-corroding material, a supporting ring of non-corroding material in which said valve seat ring is directly mounted, an inwardly projecting annular flange on said base on which both of said rings are seated to produce a water tight joint, a drip chamber formed by said rings and wholly inclosed in non-corroding material, a communicating port between said chamber and the interior of said hydrant, a valve therefor, and an outlet from said chamber.

1,340,353. METHOD FOR COOLING ENAMEL. STEFAN WIESTER, Beaver Dam, Wis., assignor of one-half to Rudolph Weimer, Sheboygan, Wis. Filed July 2, 1917. Serial No. 178,284. 2 Claims. (Cl. 83—91.)



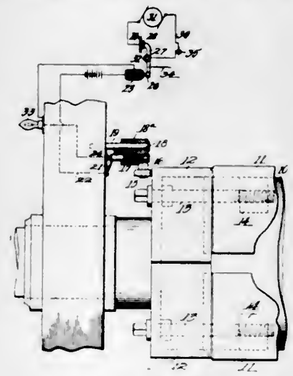
1. A method of comminuting enamel to retain its physical elasticity and also its color and to eliminate separate drying, consisting of heating enamel to form a molten mass and then discharging the molten mass in a stream and subjecting the stream to a jet of air moving with sufficient rapidity to separate the molten mass into small particles and blow said particles a sufficient distance to cool the same to such an extent that they will not adhere together.

1,340,354. ODONTOMETER. PERCY NORMAN WILLIAMS, Pelham Manor, N. Y. Filed April 1, 1919. Serial No. 286,804. 6 Claims. (Cl. 33—174.)



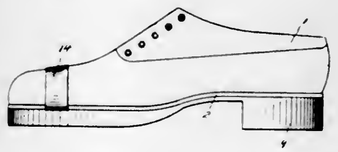
1. In a device of the character stated, a main frame having a table and means for supporting a plaster cast, combined with a frame adjustably supported in respect to the table whereby it may be moved both longitudinally and transversely thereto and having its ends respectively projecting over the table and over the support for the plaster cast, pointing means extending from the end of the frame which projects over the support for the plaster cast for insuring positions of adjustment corresponding to the configuration of the cast, and means carried by the end of the frame which extends over the table for marking a card thereon with marks corresponding to the positions of adjustment of the pointing means with respect to the plaster cast.

1,340,355. SAFETY DEVICE FOR PRINTING-PRESSES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 18, 1918. Serial No. 254,550. 2 Claims. (Cl. 101—378.)



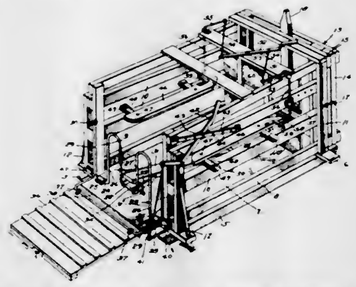
1. The combination with a printing press having a plate cylinder and plates thereon and its running motor circuit, of a starting and stopping circuit adapted to open the motor circuit and prevent the motor from running, a roll normally running in contact with the plate clamps, and means whereby when one of the plate clamps is out of normal clamping position it will move said roll out of normal position and complete the starting and stopping circuit.

1,340,356. BASEBALL-OVERSHOE. JOHN B. YARNELL and HENRY FRANK, Johnstown, Pa. Filed Feb. 15, 1917. Serial No. 148,753. Renewed October 8, 1919. Serial No. 329,417. 3 Claims. (Cl. 36—72.)



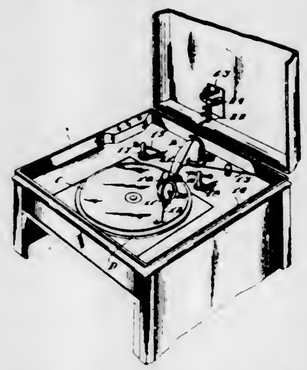
1. A device constructed and arranged to be attached to a shoe, having spikes protruding from the sole and heel thereof, an overshoe, means provided in the overshoe for reception of said spikes, and means to temporarily secure the overshoe in proper position to the sole of the shoe.

1,340,357. HOG-BREEDING CRATE. ALBERT W. ADIX and GEORGE W. HAGLUND, Boone, Iowa. Filed Feb. 18, 1919. Serial No. 277,855. 3 Claims. (Cl. 119—98.)



1. In an apparatus of the character described, a crate, a belly-board extending longitudinally thereof, a support-gate pivoted to the rear end of the crate, separable means connecting said belly board and the support gate to permit independent adjustment of the board with relation to the gate, and to adjust said belly board relative to the crate when the support gate is adjusted.

1,340,358. RESETTING DEVICE FOR PHONOGRAPHS. THOMAS AHEARN, Ottawa, Ontario, Canada. Original application No. 1,250,751, filed Jan. 16, 1917. Divided and this application filed Feb. 28, 1917. Serial No. 151,481. 1 Claim. (Cl. 161—1.)

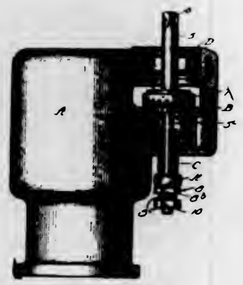


In a sound reproducer and in combination an oscillatable movable element forming part of the sound reproducing mechanism, electrically operated resetting means therefor including a resetting circuit, a lifting circuit, a circuit changing device having a movable member adapted, in one position to complete the lifting circuit and in another position, to break the same, and a return circuit adapted to be completed by the oscillatable movable element when it returns to the starting position and including a part of the circuit changing device, whereby, when the return circuit is completed, the circuit changing device will be moved to break the lifting circuit, and time mechanism for holding the return circuit open for determined intervals of time.

1,340,359. VALVE-SEAT REAMER. FRANS O. ALBERTSON, Sioux City, Iowa, assignor to Albertson & Company, Sioux City, Iowa, a Corporation of Iowa. Filed Dec. 20, 1919. Serial No. 346,377. 6 Claims. (Cl. 90—12.5.)

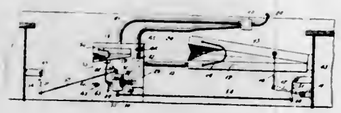
1. A valve seat reaming tool of the class described comprising a shank carrying a reaming cutter intermediate

its ends, that portion of the shank below the cutter being adapted to be inserted in the valve stem guide associated with a valve seat to be reamed, and devices on said shank below said cutter arranged to coöperate with the valve stem guide to cause the cutter edges to bite into the seat, said devices comprising a sleeve disposed around said shank, said sleeve providing with a cylindrical screw-



threaded upper portion and an externally threaded and slit conical lower portion, a clamping nut coöperating with said conical lower portion arranged to retain said sleeve at any one of a plurality of positions on said shank, and a cap threaded upon the upper portion of said sleeve arranged to bear against the lower portion of the valve stem guide for the purpose set forth.

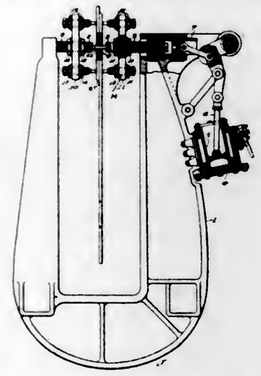
1,340,360. TRACKING DEVICE. OLIVER H. ARNO, Boston, Mass., assignor to George O. G. Coale, trustee, Boston, Mass. Filed July 19, 1917. Serial No. 181,617. 11 Claims. (Cl. 84—161.)



1. The combination of a tracker-board having a series of openings in it, means for carrying a perforated sheet whereby it may be drawn over said board, means for moving the sheet sidewise for positioning it in relation to the openings in the tracker-board and comprising in part a motor, and means for governing said motor to position said sheet in proper relation to the openings in the tracker-board and to restore said sheet in the event of its displacement, said last-named means comprising in part independently-movable, disconnected, sheet-contacting members yieldingly maintained to have engagement with the opposite side edges of the sheet and other associated parts exerting no influence upon said motor to change the position of said sheet in the event of its expansion or contraction or upon the movement of the edges of the sheet outwardly or inwardly in reverse directions, but operating to influence said motor to position said sheet in proper relation to the tracker-board and to restore said sheet to a proper position in the event of its displacement by the conjoint movement of said sheet-contacting members upon the sidewise displacement of said sheet as a whole irrespective of the expansion or contraction thereof.

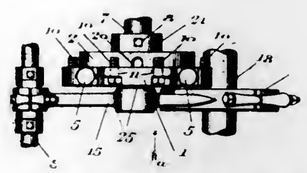
1,340,361. RIVETING-MACHINE AND PROCESS OF RIVETING. JOHN P. BADENHAUSEN, Philadelphia, Pa. Filed Feb. 20, 1919. Serial No. 278,199. 3 Claims. (Cl. 78—52.)

3. In a riveting device comprising relatively movable dies, the combination of shanks upon said dies, supporting members adjustably mounted upon said shanks and adapted to move therewith, means adjustably mounted in said supporting members and adapted to move therewith



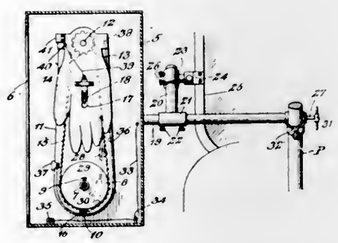
and engage the materials to be riveted together and to constantly maintain the same in a plane equidistant from said dies.

1,340,362. VALVE-TIMING GEAR FOR EXPLOSIVE-ENGINES. AVERY BARNES, Danville, Ill. Filed Aug. 22, 1919. Serial No. 319,253. 4 Claims. (Cl. 123—96.)



1. The combination with the crank shaft and the cam shaft of an engine; of a trammel gear connection between the said shafts for driving the cam shaft from the crank shaft.

1,340,363. DIRECTION-INDICATOR. LOUIS A. BEAN, Denver, Colo. Filed Aug. 25, 1919. Serial No. 319,748. 9 Claims. (Cl. 116—52.)



1. In a direction indicator for vehicles, a casing, an arm pivotally mounted for movement into and out of said casing, a relatively movable indicating member carried by said arm, means operatively connected to said member and carried by said arm for movement as a unit therewith, said means acting to move said member to an indicative position during the pivotal movement of the arm in one direction, and means for actuating said arm.

2. In a direction indicator for vehicles, a casing, an arm pivotally mounted for movement into and out of said casing, a relatively movable indicating member carried by said arm, an element operatively connected to said member and fixed with relation thereto, said element acting to move said member to an indicative position during the pivotal movement of the arm in one direction, and means for actuating said arm.

1,340,364. PHONOGRAPH-RECORD-FILING DEVICE. ROBERT JOHN BENTLEY, Monroe, Mich. Filed July 17, 1919. Serial No. 311,471. 4 Claims. (Cl. 211—16.)

1. In a device of the described character, a frame, a series of disk-holders pivotally mounted in the frame, a

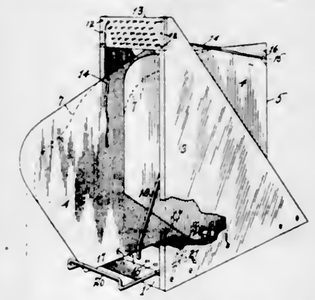
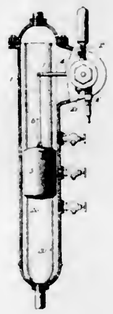


plate carried by the frame and having therethrough a series of perforations, and for each of said holders a flexible member leading through its corresponding perforation, the outer end of each flexible member having a handle, the inner end being attached to its appropriate holder, the arrangemnt being such that a pull on said flexible connection tilts the holder on its pivot to expose its contents.

1,340,365. FEED-WATER REGULATOR. WILLIAM H. BERRY, Chester, Pa. Filed Mar. 25, 1916. Serial No. 86,762. 8 Claims. (Cl. 137—101.)

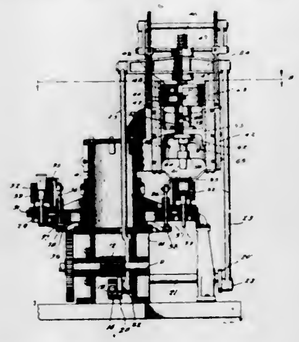


1. The combination in a feed water regulator of an alarm device, an oscillating spindle operated by a float, a pilot valve associated with said spindle, means for moving said pilot valve through a limited space and then holding it stationary while said spindle moves through a larger arc to operate the alarm device.

1,340,366. GLASS-WORKING MACHINE. ALVAH L. BINGHAM, Muncie, Ind., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind., a Corporation of Indiana. Filed June 2, 1917. Serial No. 172,391. 11 Claims. (Cl. 49—38.)

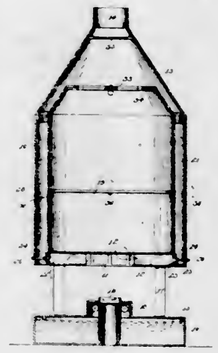
1. In a glass-working machine, the combination with a series of molds and means for bringing the same successively into pressing position, a pressing plunger adapted to coöperate successively with said molds, a reciprocating cross head, a cylinder-and-piston connection between the cross head and plunger, means for supplying light compressible fluid pressure between the cylinder and piston, a

ring arranged to coöperate with the mold, a pressure ring adapted to engage said mold ring, a cylinder-and-piston connection between said pressure ring and plunger, and



means for supplying light compressible fluid pressure exceeding atmospheric between the last-mentioned piston and cylinder.

1,340,367. STOVE. JOHN BILAN, Flint, Mich. Filed Aug. 14, 1919. Serial No. 317,517. 1 Claim. (Cl. 126—45.)

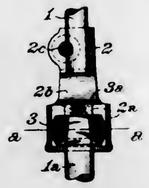


A stove comprising a fuel burner, vertical legs carried by said burner, a casing mounted on the upper ends of said legs above the said burner, an oven within said casing and equally spaced from the walls of the casing, a depending annular flange upon said oven resting upon the casing and having heat passage openings therein, an areolate damper slidably associated with said flange, contacting the same throughout its length and having openings therein adapted to register with the flange openings, outwardly directed spacing feet carried by the damper and resting upon the casing bottom and contacting the inner wall of the casing to hold the damper in engagement with the oven flange and an operating handle for the damper carried thereby and projecting outwardly of the casing.

1,340,368. UNIVERSAL JOINT. JAMES G. BLUNT, Schenectady, N. Y. Filed Nov. 14, 1919. Serial No. 337,967. 1 Claim. (Cl. 64—91.)

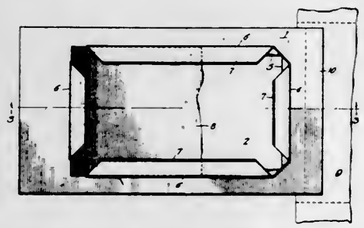
In a universal joint connection for a driving and a driven shaft, the combination of an outer coupling member, comprising a sleeve, at one end, adapted for connection to one of the shafts, an open-ended case of square section, at the other end, and connecting legs, bridging a space between the sleeve and case; and an inner coupling member, secured, detachably, on the other shaft and in-

sertible and removable through said space, said member being of less depth or axial extent than the case of the



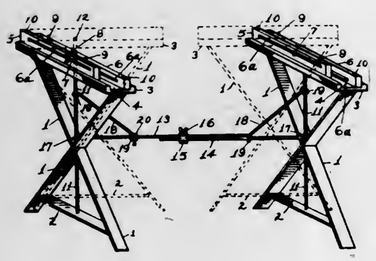
outer coupling member, and having cylindrically curved lateral faces, fitting tangentially on the bearing faces thereof.

1,340,369. MOUNT FOR PHOTOGRAPHS AND THE LIKE. CHARLES H. E. BOUGHTON, Chicago, Ill. Filed Oct. 15, 1917. Serial No. 196,612. 1 Claim. (Cl. 40—159.)



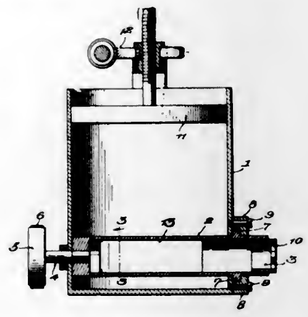
A picture mount constructed of springy material having a picture exposing opening bordered by reversely bent portions providing a retaining flange parallel to and normally spaced from the body of the mount, and a straight connecting web portion extending straight from the body of the edge of said flange and normally occupying an inclined position with reference to the body and the flange, said straight connecting web portion and the parallel flange providing an adjustable picture retaining pocket, the straight connecting web portion being adapted to be pressed from normal position downwardly against the face of the body of the mount to enlarge the pocket to a substantial extent.

1,340,370. COLLAPSIBLE STAND. WILLIAM H. BOZE, Norfolk, Va. Filed Dec. 29, 1919. Serial No. 348,083. 3 Claims. (Cl. 45—11.)



1. A device of the class described and in combination with supporting standards, grooved upper members thereon, transversely adjustable slotted members slidably mounted in the grooved members, friction clamps therefor, vertical rods passing through said supporting standards, and longitudinally adjustable slidable rods hingedly connected to said vertical rods.

1,340,371. CRULLER-FORMING DIE. FREDERICK L. BRADBURY, Bridgeport, Conn. Filed June 18, 1919. Serial No. 305,065. 10 Claims. (Cl. 107—8.)



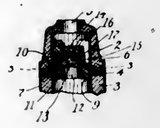
2. A cruller former comprising a receptacle, a tubular die journaled in the lower part thereof and extending through its side, a peripheral flange on the exposed portion of the die, a keeper ring engaged over the flange and secured to the exterior of the receptacle to rotatably retain the die in position, a shaping member inserted in the exposed end of the die and formed with a discharge orifice, said die within the receptacle having diametrical entrance openings through which the dough from the receptacle is forced, and means for rotating the die.

1,340,372. TRAP. NEWTON P. CAPEHART, Crystal River, Fla. Filed Oct. 25, 1919. Serial No. 333,277. 4 Claims. (Cl. 43—24.)



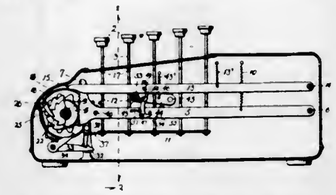
1. A trap comprising a base, a compartment secured to the base, a cylinder rotatably mounted on the base, a handle secured to the base, and a trip secured to the cylinder and adapted to normally engage the handle.

1,340,373. NON-REFILLABLE BOTTLE. ALFRED J. CARLIN, St. Paul, Minn. Filed Feb. 17, 1917. Serial No. 149,345. 3 Claims. (Cl. 215—62.)



1. A non-refillable bottle including a neck portion formed with a discharge opening therethrough, and means for closing the discharge opening comprising a cork body for seating over the latter and a gravity cap seating on the cork body and having depending legs guidingly embracing the side of the latter for a portion of its thickness and guidingly fitting the interior of the neck portion.

1,340,374. ADDING-MACHINE. GEORGE C. CHASE, East Orange, N. J., assignor to Chase Adding Machine Corporation, Orange, N. J., a Corporation of Delaware. Filed Nov. 17, 1917. Serial No. 202,533. 70 Claims. (Cl. 235—82.)



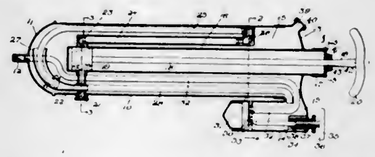
1. In an adding machine, register wheels, denominational keys, and an actuator operable by a denominational key to impart to its respective wheel movement to register key values and movement to register a carry.

1,340,375. COMBINATION UMBRELLA AND CANE. ARTHUR CLEVELAND, Augusta, Ark. Filed Feb. 17, 1920. Serial No. 359,434. 1 Claim. (Cl. 135—18.)



A combined umbrella and walking cane comprising a tubular member, said tubular member having its ends vertically split and threaded, tapered sleeves threaded on said split and threaded ends of the tubular member, a tapered tubular member disposed in said first mentioned tubular member, an umbrella carrying stick slidably mounted in the tapered tubular member, said threaded sleeves on the ends of the first mentioned tubular member forming means whereby the enlarged end of the tapered tubular member may be frictionally held in the upper end of the first mentioned tubular member or in the lower end thereof.

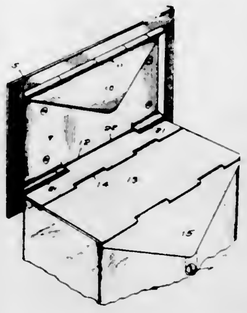
1,340,376. FIRE-EXTINGUISHER. ALBERT L. COLE, Auburndale, Mass. Filed June 22, 1914. Serial No. 846,445. 19 Claims. (Cl. 299—98.)



1. A fire extinguisher comprising a hollow casing having a nozzle and a lateral extension provided with a closed chamber communicating with the interior of said extension through an opening, a valve controlling said opening, a pipe within said casing connecting said closed chamber with said nozzle, and means for forcing liquid from the interior of said casing into said closed chamber and out through said pipe and nozzle.

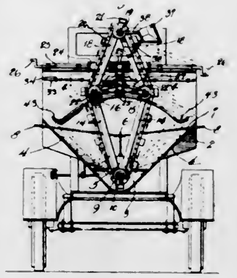
1,340,377. HOUSEHOLD SAFETY-DEPOSIT BOX. CHARLES M. COTT, Richmond, Va. Filed Aug. 30, 1919. Serial No. 320,869. 8 Claims. (Cl. 232—4.)

1. In combination a supporting element, a box movably connected to and mounted thereon, a lid for the box, means for locking the lid in closed position upon the box and means for locking the box to the support, the latter means being operable when the box has been moved upon



its mounting to a position where its lid lies toward and against the said support and is inaccessible by reason thereof.

1,340,378. TRUCK. LEWIS O. CULVER and JAMES B. WILLS, West Pittston, Pa., said Willis assignor to said Culver. Filed Dec. 20, 1918. Serial No. 267,730. 5 Claims. (Cl. 214—83.)



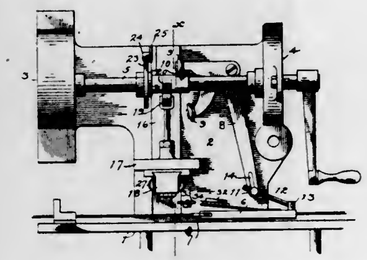
1. A truck comprising a body having spaced apart compartments, a collapsible frame mounted in the space between said compartments and comprising a pair of lower and a pair of upper arms, each arm being pivoted to each of the adjacent arms thereto, a pair of shafts passing through the lower ends of said upper arms and through the upper ends of said lower arms and adapted to move toward and away from each other, means provided for holding said collapsible frame in an elevated position, means provided for lowering and elevating said frame, and conveying means pasing around said frame.

1,340,379. COMB. JOSEPH A. CYPERT, Kansas City, Mo. Filed Nov. 19, 1918. Serial No. 263,131. 2 Claims. (Cl. 132—3.)



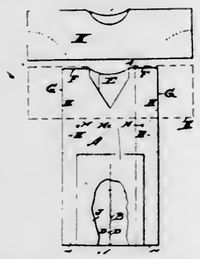
1. A comb with the back edge thereof beveled transversely in opposite directions from near the center of the length of the comb longitudinally to each end of the comb, each of the bevels forming an arc whose chord lies in an acute angle to the axis of the teeth.

1,340,380. PRINTING AND INKING DEVICE. HARRY G. DAVIS, Philadelphia, Pa., assignor to The H. D. Davis Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Continuation in part of application Serial No. 782,867, filed Aug. 4, 1913. This application filed Jan. 26, 1914. Serial No. 814,514. 2 Claims. (Cl. 101—288.)



1. In an apparatus of the character described, a movable printing member, a platen for the material operated upon, a reciprocatory material feeding member adapted to intermittently advance the material operated upon, inking means carried by the material feeding member, means for reciprocating the feeding member, and means for actuating the printing member toward the platen while the inking means carried by the material feeding member is in the path of travel of the printing member and again after the inking means and feeding member have been withdrawn therefrom.

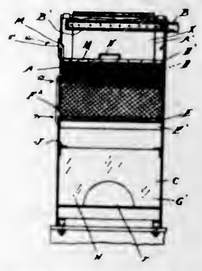
1,340,381. HOSPITAL OR SLEEPING GARMENT. VERNIE DEAN, Detroit, Mich. Filed Jan. 7, 1920. Serial No. 349,946. 4 Claims. (Cl. 2—41.)



3. A sleeping garment having straight parallel side edges with ends formed at right angles thereto, its lower portion having a central slit parallel with its side edges, the edges of the slitted portion being sewed together to form legs, an apron secured to the front of the garment adapted to cover its divided leg portion, and a detachable cape-like sleeve folded to overlap the upper portion of the body of the garment, said sleeve portion having straight parallel side edges, with ends cut at right angles thereto, the side edges being sewed together for a portion of their length to form sleeves.

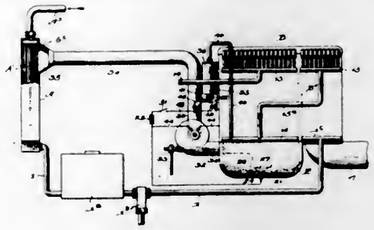
1,340,382. RADIATOR. EDWARD C. DENNERT, Detroit, Mich. Filed May 4, 1918. Serial No. 232,456. 5 Claims. (Cl. 261—115.)

1. In a radiator, the combination with a casing, of a water inlet in the upper portion thereof, a receptacle for water in the lower portion thereof, said casing having holes in its opposite sides above said receptacle and said receptacle comprising a plurality of connected compartments, and inwardly-extending flanges upon the outer walls of said compartments for preventing the splashing



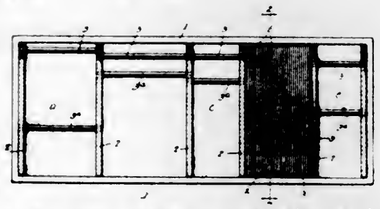
of the water from the same, said flanges extending partially across said compartments.

1,340,383. APPARATUS FOR BURNING FUEL. ABNER DOBLE, Detroit, Mich., assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich, a Corporation of Delawnre. Filed Sept. 23, 1916. Serial No. 121,801. 5 Claims. (Cl. 158—31.)



1. In combination, a heat inclosure shell, a refractory fire-pot forming a bottom closure for said shell, a liquid-fuel atomizer for projecting a combustible mixture of finely divided fuel and air downward against the bottom of said fire-pot, and an electrical ignition device arranged to initiate combustion of said mixture.

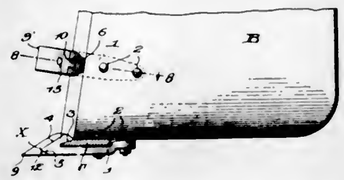
1,340,384. CARD-INDEX SYSTEM. JOHN W. DOWNING, Rockford, Ill. Filed Mar. 5, 1919. Serial No. 280,717. 5 Claims. (Cl. 129—16.1.)



1. A card index having, in combination, a plurality of cards, a case, and a plurality of partitions dividing the case into sections for receiving separate groups of cards, each of said sections having a pair of longitudinally extending ribs in its bottom adapted to maintain the partitions spaced apart and in upright position, the ribs of the several sections being spaced at varying distances apart, and the cards of the several groups being provided with notches in their lower edges adapted to receive the ribs of their respective sections.

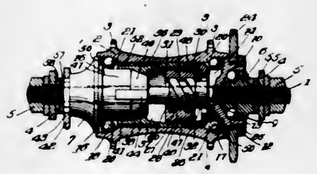
5. In a card index system including a plurality of cards to be filed, means for forming notches in said cards to guard against the commission of errors in filing, said means comprising a tabular guide and a cutter associated therewith, said guide being adapted to indicate the proper location of the notches as determined by the data on the cards to be filed.

1,340,385. RENEWABLE CUTTING-TOOTH POINT. WARREN L. EDMONDSON, Washington, D. C. Filed July 29, 1919. Serial No. 313,978. 5 Claims. (Cl. 37—56.)



1. In a tooth for ditching machines and the like, a shank having a downwardly and outwardly inclined upper face formed with a dovetail groove centrally between its sides and formed with downwardly and rearwardly inclined parts on opposite sides of the groove with a shoulder at and extending across the lower end of the groove, said shoulder being substantially at right angles to the longitudinal axis of the shank, a removable cutting point having a bottom wall, an inclined front face, and a dovetail projection on the rear of the front face receivable in said groove, the lower end of the dovetail projection being extended and formed with a depending foot which conformably engages the shoulder, said point having a part on each side of the foot and of greater length and inclination than the latter and engageable with the downwardly and rearwardly inclined parts of the shank and a rivet passed through the point and shank and extending through the top and bottom faces of the dovetail projection.

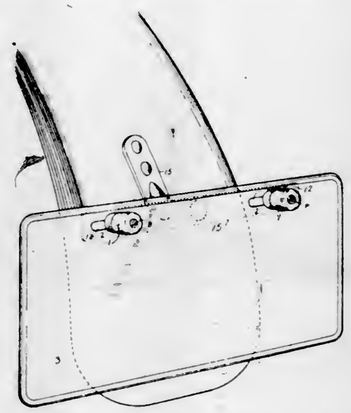
1,340,386. COASTER-BRAKE. WILLIAM F. EMERSON, Buffalo, N. Y. Filed May 21, 1917. Serial No. 169,866. 9 Claims. (Cl. 208—57.)



1. In a driving and braking mechanism, the combination with the axle and a hub suitably journaled to rotate about said axle, of a driving member suitably journaled and having an extension provided with an inclined cam thread, a coupler member adapted to have threaded engagement with the cam thread, said coupler having oppositely directed conical actuating surfaces, braking means arranged to be actuated by one of said conical surfaces upon shifting of the coupler in one direction, means engaged by the opposite conical surface to effect coupling of the driving member and the hub when the coupler is shifted in the other direction and said coupler member being split to be expansible to maintain frictional contact at all times to insure rotative movement of the driving member with relation thereto.

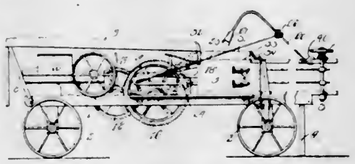
1,340,387. LICENSE-PLATE HOLDER. GEORGE W. EMMERT, Pittsburgh, Pa., assignor to The Clamert Manufacturing Company, Pittsburgh, Pa., a Corporation of Delaware. Filed June 7, 1919. Serial No. 302,490. 2 Claims. (Cl. 40—10.)

1. A device for securing plates to brackets comprising a shank having a terminal portion of substantially uniform diameter and an enlarged head on said terminal adapted to pass through registering apertures of various shapes in such plates and brackets without requiring a special position of the shank about its axis, spring means to be compressed when said head is passed through said openings; and a retaining member, engageable on the terminal of the shank projecting through said apertures



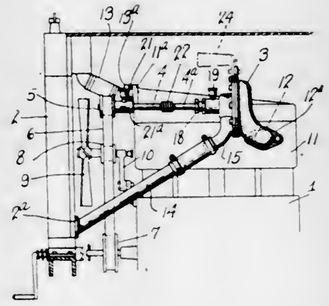
and slidable longitudinally thereon, for said enlarged head to seat against under the tension of said spring means.

1,340,388. HAY-PRESS. ANTOINE FISET, Quebec, Quebec, Canada. Filed Feb. 28, 1919. Serial No. 279,706. 2 Claims. (Cl. 100—3.)



1. In a hay press the combination with a hopper, of a reciprocating plunger adapted to move within said hopper, a pair of V-shaped bars connected to said plunger, guide bearings for said bars, a pivotally mounted feeding fork, and rods for connecting said pivotally mounted feeding fork with the apex of said V shaped bars substantially as and for the purpose specified.

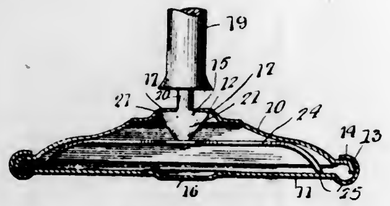
1,340,389. MOTOR-PUMP ATTACHMENT. BERT BELL GILSON, Chicago, Ill. Filed Mar. 12, 1919. Serial No. 282,100. 6 Claims. (Cl. 123—175.)



1. The combination with a motor and its water jacket, a radiator and crank shaft, of a pump attachable to and communicating with the said water jacket, a propeller shaft extending from the said pump, a journal bracket attachable to the front end of the motor and supporting the front end of the said shaft, devices for rotatably connecting

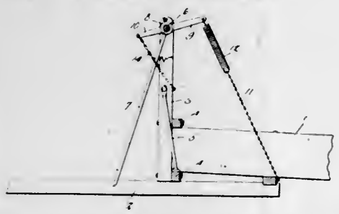
the shaft with the said crank shaft, and devices for rendering flexibility to the said propeller shaft intermediate the said bracket and pump.

1,340,390. BUTTON. STEPHEN A. GLYNN, Antigo, Wis. Filed Nov. 20, 1919. Serial No. 339,515. 1 Claim. (Cl. 24—109.)



As a new article of manufacture, a separable button comprising upper and lower interlocking sections, said upper section having a head and shank, said shank provided with a restricted portion expanding into a wedge-shaped lug, said lower section comprising upper and lower plates connected together to form a hollow casing, the upper of said plates formed with a raised annular portion having a rectangular opening therein, said annular portion provided with notches extending at right angles to said opening, a spring plate arranged within said hollow casing and having its opposite ends curved downwardly, the end portions of said spring plate engaging the lower casing plate and the curved portions of said spring plate engaging said upper casing plate, said spring plate being indented at its central part for the reception of the said lug and adapted for tensioning said shank lug into notches of the raised annular portion of the said casing.

1,340,391. ATTACHMENT FOR HAY-SWEEPS. LOUIS HOESING, Crofton, Nebr. Filed Aug. 29, 1919. Serial No. 320,622. 4 Claims. (Cl. 56—395.)



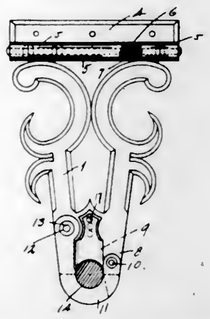
4. The combination with a hay sweep of a shaft mounted for oscillatory movement above the sweep, tines secured to the shaft and extending downwardly and forwardly to engage material on the sweep, forwardly and rearwardly extending levers connected to the shaft, resilient means connected to the rearwardly extending lever for urging the lines in a forward direction and means secured to the forwardly extending lever for limiting the forward movement of the tines under the action of the resilient means.

1,340,392. REVERSIBLE PLOW-SHOVEL. CLARENCE H. INGHAM and WILLIAM H. WILCOX, Cooper, Iowa. Filed Oct. 4, 1918. Serial No. 256,856. 1 Claim. (Cl. 97—11.)

The combination with a plow standard, of a plow blade member, means carried by said member for quickly clamping on or removing the plow blade member onto or from the standard, said means comprising an elongated elliptical plate secured to the rear face of the shovel blade, the rear face of the plate being flat, the longitudinal curved edges of said plate having elongated tapering flanges engaging on each side of the standard, the flattened rear face of the elliptical plate engaging the flattened forward surface of the standard thereby preventing twisting of the shovel blade when in place, one of said flanges terminating in a hook extending toward the rear face of the plow blade, the other flange terminating in an ear opposite the hook, a semi-circular arching metallic strap having an eye at one end engaging said hook and arching the standard transversely, the other end of said strap having an ear, the first ear having an elongated slot, and means passing through the slot and the ear of the strap to secure the two ears together.

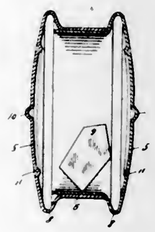


1,340,393. AUTOMOBILE-LOCK. RUFUS S. JAQUES, Spokane, Wash. Filed Mar. 1, 1919. Serial No. 279,992. 2 Claims. (Cl. 70—128.)



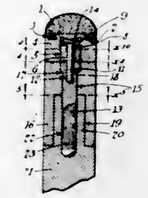
2. The combination with a hinged locking plate having spaced ends the longer of which is formed with a longitudinal rib, of a U-shape yoke having its short arm pivoted to said longer end and adapted to be locked to the other end of the plate to encircle a shift lever, and a locking block engaging the lever and having a groove to engage said rib and riveted to the plate between its ends.

1,340,394. TOY. GUSTAVE A. KING, Chicago, Ill. Filed May 26, 1919. Serial No. 299,681. 1 Claim. Cl. 46—37.)



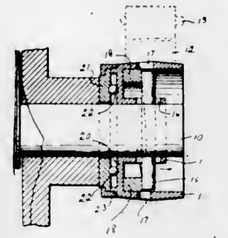
A toy comprising a hollow cylindrical member of resonant material having a rigid side wall, and flexible end walls with annular outstanding peripheral beads at the ends of the side wall, said end walls being also provided with centrally located outturned protuberances to serve as the spinning points of a top.

1,340,395. BILLIARD-CUE CONSTRUCTION AND METHOD OF ATTACHING THE CUE-TIP. OSWALD C. LEGER, Los Angeles, Calif. Filed Oct. 15, 1919. Serial No. 330,731. 4 Claims. (Cl. 46—9.)



1. In a cue, a tip holding member provided with an annular dove-tail recess, and a tip having a dove-tail annulus in the recess and formed of a yielding material which expands when moistened.

1,340,396. ADJUSTABLE THRUST-BEARING FOR CRANK-SHAFTS. THOMAS N. MARTIN, Mountain Home, Ark. Filed July 21, 1919. Serial No. 312,212. 7 Claims. (Cl. 64—49.)



1. The combination with the crank shaft of an automobile, of means for shifting the crank shaft longitudinally comprising a thrust bearing, a pulley having a hub, the hub surrounding the crank shaft and being longitudinally slotted, a pin disposed through the slots of the hub and through the crank shaft, an annular member operatively bearing against the thrust bearing and having a face bearing against the pin, said member being rotatable with the pin but being independently adjustable around the hub to shift the pin and crank shaft relative to the hub.

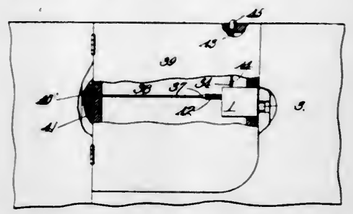
1,340,397. REINFORCED-CONCRETE PILING. CARL E. NAGEL, St. Paul, Minn. Filed Dec. 10, 1917. Serial No. 206,454. 7 Claims. (Cl. 61—56.)



2. A pile comprising a multiplicity of longitudinal sections each consisting of a plurality of members held in longitudinal alinement and a central core united with all of said members.

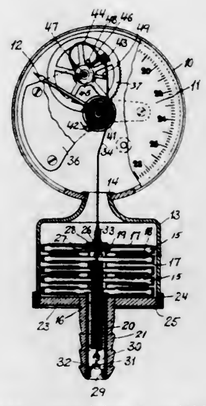
1,340,398. DOOR-LOCK. EDMUND HALE O'BRIEN, Kansas City, Mo. Filed Dec. 9, 1912. Serial No. 735,677. 13 Claims. (Cl. 292—335.)

1. In a lock, the combination of a casing, a bolt therein, means holding the bolt in inoperative position, means to trip the bolt-holding means, means to throw the bolt to operative position as the holding means is tripped, and a



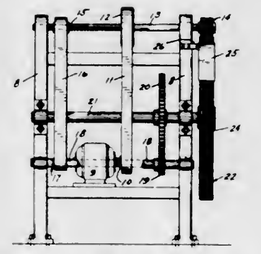
single means to return the tripping means to original position and the bolt to inoperative position.

1,340,399. PRESSURE-GAGE. OLOF OHLSON, West Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass., a Corporation of Massachusetts. Filed June 5, 1916. Serial No. 101,875. 9 Claims. (Cl. 73—110.)



1. A pressure gage comprising a weighing mechanism consisting of an expansible container for fluid under pressure one wall of which is fixed in position and has an inlet, and an opposite wall of which is movable, and a spring passing through said inlet and connected to said movable wall to resist expansion of said container, an indicator, an anchorage to which the end of the spring outside of the container is secured, and transmission means between said indicator and weighing mechanism movable by expansions and contractions of said mechanism.

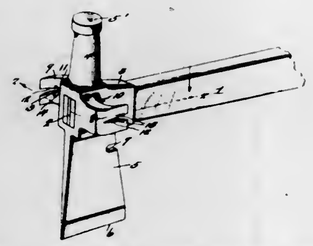
1,340,400. MACHINE FOR MAKING PHONOGRAPH-NEEDLES. GEORGE T. OIUM, Minneapolis, Minn. Filed Feb. 24, 1919. Serial No. 278,641. 7 Claims. (Cl. 29—70.)



1. In a machine for making phonograph needles from blank bars, the combination with a plurality of laterally spaced saws and means for supporting and rotating the

same, of a carrying wheel having peripheral grooves in which the said saws work and also having bar holding channels that intersect the said peripheral grooves, said channels being oblique to said grooves and adapted to hold the blank bars while they are being presented to the saws.

1,340,401. HATCHET. JOSEPH W. OLNEY, Latah, Wash. Filed Sept. 10, 1918. Serial No. 253,438. 1 Claim. (Cl. 254—26.)



In a device as set forth, a body, a handle therefor, said body having on its opposite faces integral nail-extracting claws reversely disposed in relation to each other, one of said claws extending toward the handle member and being adapted to receive the head of a nail, the other claw extending toward the end of the body member and terminating in a sharpened edge substantially in alinement with the end of said body member and spaced therefrom thereby forming a fulcruming point during a nail-pulling operation.

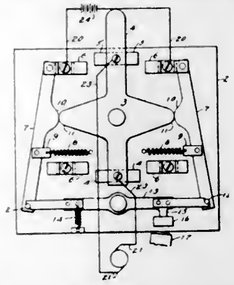
1,340,402. METHOD OF MAKING SHINGLE-STRIPS. FREDERICK C. OVERBURY, Montclair, N. J., assignor, by mesne assignments, to The Flinkote Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Mar. 1, 1915, Serial No. 11,392. Patent No. 1,150,298, dated Aug. 17, 1915. Divided and this application filed May 14, 1915. Serial No. 28,162. 5 Claims. (Cl. 164—17.)



1. The herein described method of making shingle strips, which consists in forming an elongated sheet of flexible felt impregnated with a bituminous waterproofing compound, and severing said sheet transversely into strips each having between its side edges a plurality of tabs or projections of equal width spaced apart to simulate singles or tiles when said strips are laid in overlapping relation.

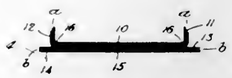
1,340,403. SWITCH. SETH E. PERKINS, Waterloo, Iowa, assignor to Perkins Electric Door Control Co., Waterloo, Iowa. Filed Apr. 26, 1919. Serial No. 292,929. 6 Claims. (Cl. 200—104.)

6. A device of the class described, comprising a base plate, a lever pivoted to the base plate, intermediate the length thereof, a pair of contact members supported on the base plate, adjacent each end of the lever, contact members carried by the lever, means for moving the lever to complete a circuit between the contact members of the lever and contact members on the base member, and electrically controlled means for completing a circuit be-



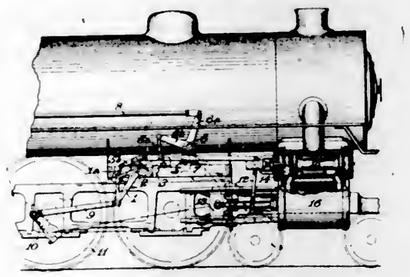
tween the contact members of the base plate, and a source of the electric supply.

1,340,404. INSOLE. GEORGE L. PREBLE, Lynn, Mass. Filed Sept. 21, 1916. Serial No. 121,406. 1 Claim. (Cl. 36—22.)



An insole comprising two sole shaped portions, the upper portion including two layers of woven fabric, a layer of pyroxylin intermediate said fabric layers, and a lower protective layer, all of said layers being connected along a line parallel to, but spaced from, the edges thereof, the marginal portion of said fabric layers on either side of the pyroxylin layer being bent upwardly along the line of connection to provide an in-seam receiving lip that is stiffened by the intermediate layer of pyroxylin, and a layer of pyroxylin uniting the protective layer and the lower sole shaped portion and forming part of the feather that projects beyond the connection between the layers of the upper portion.

1,340,405. STEAM-ENGINE VALVE-GEAR. CHARLES F. PRESCOTT, Brooklyn, N. Y. Filed Mar. 13, 1919. Serial No. 282,382. 3 Claims. (Cl. 121—163.)
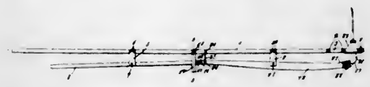


1. The combination, in a steam engine valve gear, of an eccentric crank; a radius bar; a valve stem connected to the radius bar; a vibratory link carrying frame, journaled, at one end, in fixed bearings, and having long arms positively connected to the eccentric crank, and short arms, at an angle to its long arms; a radial linkage positively connecting the radius bar to the long and to the short arms of the link carrying frame; and a vibratory reverse shaft, having an arm coupled to the radius bar.

2. The combination, in a steam engine valve gear, of an eccentric crank; a radius bar; a valve stem connected to the radius bar; a vibratory link carrying frame, journaled at one end, in fixed bearings; and having long arms positively connected to the eccentric crank, and short arms at

an angle to its long arms; floating links coupled, at one end, to the radius bar; guide links connecting the opposite ends of the floating links to the long arms of the link carrying frame; radial links coupling the floating links, intermediate of their ends, to the short arms of said frame; and a vibratory reverse shaft, having an arm coupled to the radius bar.

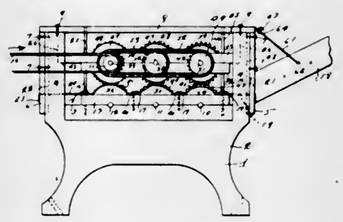
3. The combination, in a steam engine valve gear, of an eccentric crank; a radius bar; a valve stem connected to the radius bar; a vibratory link carrying frame, of bell crank form, positively connected to the eccentric crank; a radial link pivotally connected to the short arm of the link carrying frame; and a floating radial link, through which motion is imparted from the eccentric crank to the radius bar, said floating link being articulated, at one end, to the radius bar, and coupled, at the other end, to the link carrying frame, and articulated, between its ends, to the first specified radial link, so as to move the radius bar in an arc of a circle.

1,340,406. OILER. EDWARD M. REID, Cambria, Va., assignor of one-half to Weller H. Baker, Cambria, Va. Filed July 8, 1919. Serial No. 309,307. 1 Claim. (Cl. 221—54.)



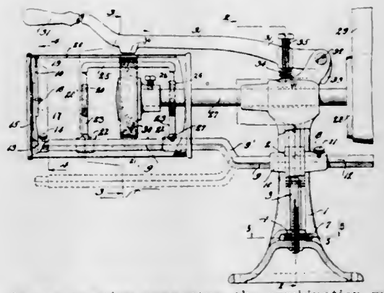
A device of the class described comprising a main member; a can retainer on one end of the main member; a pair of levers extended longitudinally of the main member and having their inner ends pivotally connected, the levers being fulcrumed intermediate their ends on the main member; a pressure element comprising a head cooperating with the retainer, and a shank disposed at an angle to the head; and means for pivoting the shank to one lever, whereby the head may be swung laterally with respect to the retainer to permit a can to be introduced into the retainer and removed therefrom.

1,340,407. ROTARY CRUSHING-MILL. LAFAYETTE ROSS, East Lynn, W. Va. Filed Aug. 6, 1918. Serial No. 248,561. 1 Claim. (Cl. 100—47.)



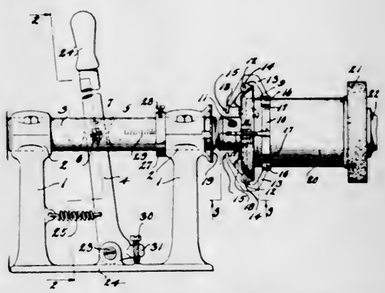
In a mill for crushing cane, the combination with a frame of upper and lower series of crushing rollers, the upper series of rollers being carried in a vertically movable frame, gear connections between the upper and lower rollers, gear connections between the rollers of the upper series of rollers, means for driving one of the rollers of the upper series of rollers whereby all of the rollers of both series will be rotated during a crushing operation, means between the rollers of each series for preventing the cane from passing through the vertically disposed spaces between the rollers, the vertically movable frame carrying the upper series of ollers allowing said upper series of rollers to be thrown out of gear connection with the lower series of rollers when an excessive amount of material is fed between the rollers.

1,340,408. CAN-TREATING APPARATUS. JAMES M. RUDE, Covington, Ky., assignor to Can Conservation Company, Louisville, Ky., a Corporation of Delaware. Filed Mar. 4, 1918. Serial No. 220,213. 7 Claims. (Cl. 51—4.)



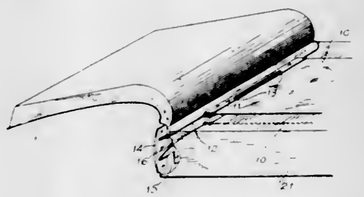
1. In can treating apparatus, the combination with an abrader, of adjustable can sustaining means adjacent thereto, and means for pressing the head of a can mounted on said sustaining means laterally against the abrader.

1,340,409. CAN-COVER-REMOVING APPARATUS. JAMES M. RUDE, Covington, Ky., assignor to Can Conservation Company, Louisville, Ky., a Corporation of Delaware. Filed Mar. 4, 1918. Serial No. 220,214. 6 Claims. (Cl. 51—4.)



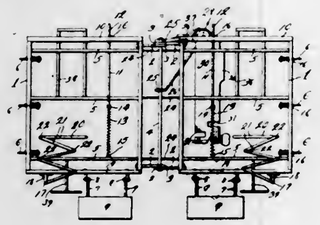
1. In can cover removing apparatus, the combination of a reciprocating shaft, can-engaging means mounted thereon adapted to move a can to a position for having its cover severed, and an adjustable stop for limiting the movement of the shaft.

1,340,410. INDEX. JOHN F. RYAN, Chicago, Ill. Filed May 28, 1918. Serial No. 237,060. 7 Claims. (Cl. 129—15.)



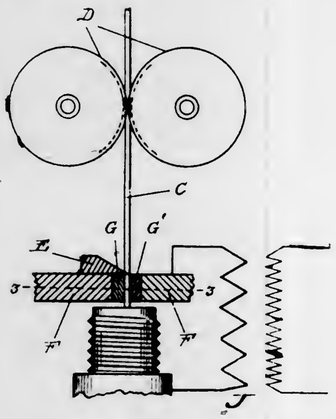
1. An index for books, comprising a plurality of index sheets, a flexible member connecting the sheets in a longitudinal series and in spaced relation, the sheets being insertible between the leaves of the book, and an anchoring strip extending along the back of the book when the sheets are inserted between the leaves thereof, and having means for holding the free portions of the aforesaid member extending between the sheets.

1,340,411. COPY AND BOOK HOLDER. HENRY SAFFORD, Little Rock, Ark. Filed Feb. 18, 1920. Serial No. 359,562. 3 Claims. (Cl. 120—28.)



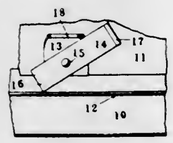
1. A copy holder comprising a pair of frames hingedly connected to each other, bowed springs arching their pivotal points, the arching portions of said springs allowing the sections to be folded onto each other, means carried by the sections for supporting and holding a book, pointers carried by the sections for indicating lines in the printed matter on the book and a bracket carried by the holder for supporting said holder in various positions.

1,340,412. METHOD OF ELECTRICALLY WELDING. ALBERT SCHMIDT, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed July 26, 1918. Serial No. 246,808. 9 Claims. (Cl. 219—10.)



1. In the method of electrically welding, the step of applying pressure to the work by a contacting body sufficient to produce a deformation in the surfaces of the work contacting with the pressure applying body.

1,340,413. DEVICE FOR REMOVING SLIP-COVERS. WILLIAM T. SCHNEEWEISS, St. Louis, Mo. Filed Jan. 21, 1920. Serial No. 353,044. 3 Claims. (Cl. 220—43.)



1. The combination with a receptacle, of a slip cover therefor, one of said parts being provided with a projection, a lever pivotally carried by the other of said parts and provided at one side of its pivot with a portion adapted to contact with said projection and at the other side with a finger piece, and a stop projecting over said lever and adapted to contact with the upper edge of said lever to prevent its either end from moving into position to render the device inoperative.

2. The combination with a receptacle, of a slip cover therefor, one of said parts being provided with a projection and the other with an integral lever support, a lever pivoted to the outside of said support and adapted to engage with said projection to remove the cover, and a stop formed integral with said lever support and engaging with the upper edge of the lever for preventing the movement of either end of said lever into position to render the device inoperative.

1,340,414. REMOVABLE BOGIE FOR TRAILERS. EUGÈNE SCHNEIDER, Le Creuzot, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 30, 1917. Serial No. 183,595. 8 Claims. (Cl. 280—81.)



1. In a bogie for supporting a trailer, gun carriage or other vehicle, a wheeled axle, a vehicle frame and a spring supporting said frame on said axle, a screw-jack having a casing pivotally mounted on said frame and adapted to receive said spring, one of the threaded elements of the jack having a jointed connection with said axle, the companion threaded element of the jack having a connection with said vehicle frame through said screw-jack casing whereby relative movement between the jack elements enables the vehicle frame and the axle to be successively lowered and raised to and from the ground.

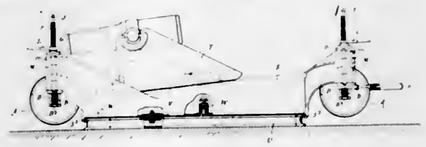
2. In a bogie for supporting a trailer, gun carriage or other vehicle, a wheeled axle, a vehicle frame and a spring supporting said frame on said axle, a screw-jack having one threaded element connected with the vehicle frame and the companion threaded element having a jointed connection with said axle whereby relative movement between the jack elements enables the vehicle frame and the axle to be successively lowered and raised to and from the ground.

3. In a bogie for supporting a trailer, gun carriage or other vehicle, a wheeled axle having a spring barrel pivotally mounted thereon, a vehicle frame provided with a tubular member revolubly mounted thereon for receiving said barrel, a nut revolubly mounted on said member, a depressing and elevating screw having threaded engagement with said nut and adapted to connect with said barrel and to be held against rotation thereby, and a suspension spring having the end of the barrel as one abutment and the end of said screw as the opposite abutment.

4. In a bogie for a trailer, gun carriage or other vehicle, the combination of a vehicle frame, a wheeled axle therefor and an elastic suspension device having a loose joint connection with said axle and a pivoted connection with said frame and including means for successively depressing said frame and elevating said axle.

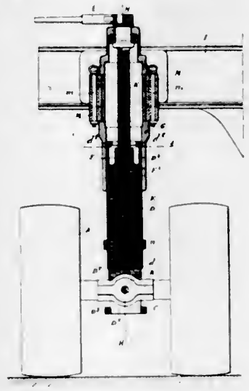
5. In a bogie for a trailer, gun carriage or other vehicle, the combination of a vehicle frame, bogie axle therefor, a spring containing barrel having a loose joint connection with said axle and constituting one abutment for said spring, and screw-jack means having one element revolubly mounted on said frame and the companion longitudinally movable element constituting the opposite abutment for said spring and adapted to move into lifting engagement with said barrel.

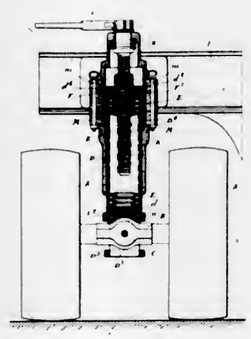
1,340,415. GUN-SUPPORTING PLATFORM. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed July 30, 1917, Serial No. 183,595. Divided and this application filed Aug. 8, 1918. Serial No. 248,896. 1 Claim. (Cl. 89—40.)



In a traveling gun carriage support of the character described, a platform having a track adapted to receive a gun supporting carriage slidable on said track during recoil and return to battery, and a sub-platform having a pivot connection with said upper platform and having peripheral supporting connections therewith comprising curved flange members having a common center in said pivot, the flanges at one end of the platform having a longer radius of curvature than at the opposite end.

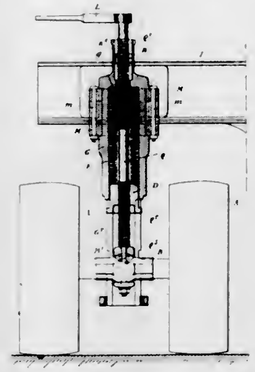
1,340,416. REMOVABLE BOGIE FOR TRAILERS, GUN-CARRIAGES, AND OTHER APPARATUS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed July 30, 1917, Serial No. 183,595. Divided and this application filed June 16, 1919. Serial No. 304,646. 2 Claims. (Cl. 280—80.)





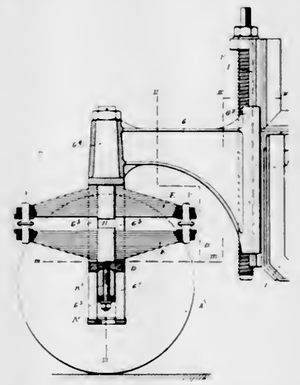
1. In a bogie for supporting a trailer, gun carriage or other vehicle, the combination of a wheeled axle, a spring barrel pivotally mounted on said axle, a vehicle frame, a tubular member revolubly mounted thereon and adapted to receive said barrel, a threaded rod revolubly supported in said tubular member and provided with a nut movable into lifting engagement with said barrel and a suspension spring in said barrel having said nut as one abutment and the end of said barrel as the opposite abutment.

1,340,417. REMOVABLE BOGIE FOR TRAILERS, GUN CARRIAGES, AND OTHER APPARATUS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed July 30, 1917, Serial No. 183,595. Divided and this application filed June 16, 1919. Serial No. 304,647. 3 Claims. (Cl. 280—80.)



1. In a bogie for supporting a trailer, gun carriage or other vehicle, a wheeled axle, a vehicle frame and a spring supporting said frame on said axle, a screw-jack having a casing revolubly mounted on said frame and constituting the upper abutment for said spring, said screw jack having a screw element provided with a loose-jointed connection with said axle, the nut element of said jack constituting the lower abutment for said spring, and a second nut slidable in said casing and having threaded engagement with said screw element adapted to serve as an abutment in lifting said axle.

1,340,418. REMOVABLE BOGIE FOR TRAILERS, GUN-CARRIAGES, AND OTHER APPARATUS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed July 30, 1917, Serial No. 183,595. Divided and this application filed June 16, 1919. Serial No. 304,648. 3 Claims. (Cl. 280—80.)



1. In a bogie for supporting a trailer, gun carriage or other vehicle, a wheeled axle, a vehicle frame and springs

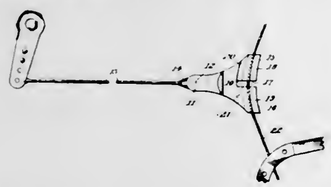
supporting said frame on said axle, a screw element revolubly supported on said frame, a vertically movable bracket arm having at its inner end threaded engagement with said screw element and at its outer end a pivot adapted to constitute the upper abutment for said springs, and a plate having a loose connection with said axle and adapted to constitute a lower abutment for said springs.

1,340,419. CORN-HUSKER PIN. LOUIS F. SCHRAGE, Palatine, Ill. Filed Jan. 22, 1919. Serial No. 272,505. 1 Claim. (Cl. 130—4.)



In a device of the character described, the combination of a primary section and an auxiliary section pivotally connected together at their inner edges, spring means for normally urging said sections to an open position, each section consisting of a plate arcuated inwardly throughout the major portion of its length to present an angle in all relative positions of the sections, the free ends of said sections being bent inwardly toward each other, the free end of said primary section being formed to provide a pair of spaced spurs adjacent the side edges thereof, the free end of said auxiliary section having a pair of spurs formed thereon adjacent its center portion and adapted to fit between the spurs of the primary section when the sections are closed, the length and breadth of said sections allowing the user to use his forefinger and thumb when the device is used without interference therefrom, and a retaining strap secured to the primary section for embracing the back of the user's hand.

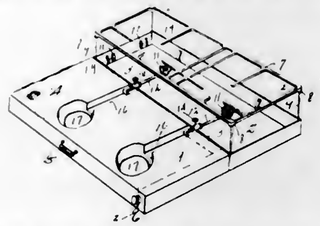
1,340,420. SPUDDING-SHOE. WILLIAM L. SETTLE, Memphis, Tenn., assignor to Jay R. Corbett, Memphis, Tenn. Filed Dec. 23, 1919. Serial No. 347,008. 6 Claims. (Cl. 255—33.)



1. A spudding shoe having a cable bearing surface and further having an entrance opening for a well drilling cable intersecting the bearing surface.

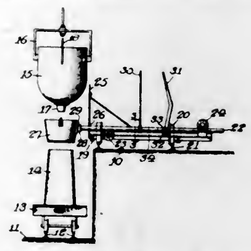
1,340,421. PORTABLE COOKING-STOVE. MARK L. SEYMOUR, Potlatch, Idaho, assignor of one-third to Theodore Tucker, Spokane, Wash., and one-third to Washington Machinery and Supply Company, Spokane, Wash. Filed Jan. 6, 1919. Serial No. 269,849. 2 Claims. (Cl. 126—38.)

2. In a portable cooking stove, the combination of a sealed tank having means therein for creating air pressure on contained liquid fuel, a groove and a recess in the tank, a burner having an elbow connection swiveled in the walls of the groove, a tray hinged to the tank, hinged legs in the tray and a grid on said legs, said



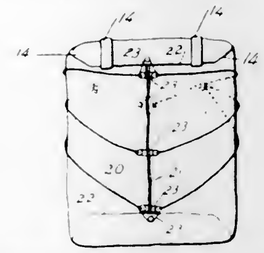
burner being adapted to be turned into the tray beneath the grid for use, as described.

1,340,422. INGOT-POURING MECHANISM. SAMUEL BERTRAM SHELDON, Duluth, Minn. Filed Jan. 18, 1917. Serial No. 143,023. 6 Claims. (Cl. 22—79.)



1. In a device of the class described, the combination of a movable carriage, a trough carried thereby and adapted to be positioned above a plurality of movable molds, said trough being provided with a plurality of discharge outlets so positioned as to register with the pouring openings of said molds, and means on said carriage for moving said trough to control the amount of metal discharged through each of said outlets, substantially as described.

1,340,423. PARACHUTE. FLOYD SMITH, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company, a Corporation of Illinois. Filed July 27, 1918. Serial No. 246,999. 14 Claims. (Cl. 244—21.)

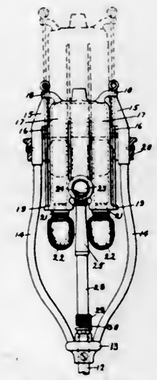


1. In combination, a parachute folded into a compact mass and having suspending members, a sheet of flexible material folded about said parachute and permitting the ends of said suspending members to project, releasable fastening means between each edge of the sheet and some other portion of the sheet, a releasing device, and means connecting said fastening means to said releasing device.

1,340,424. GAS-MANTLE LAMP. THOMAS H. STAFFORD, Franklin, N. H. Filed Mar. 20, 1919. Serial No. 283,755. 8 Claims. (Cl. 67—30.)

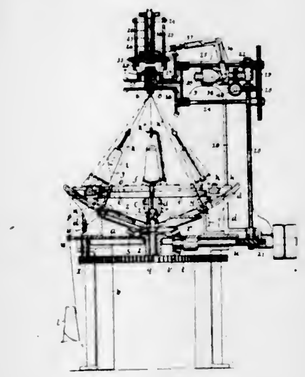
1. A gas-burning lamp having a ring-shaped mantle holder provided with gas ports, a mantle having inner and

outer margins secured to the inner and outer portions, respectively, of the holder, a generator extending within



the mantle, and means for temporarily supporting the generator and mantle in relatively displaced positions.

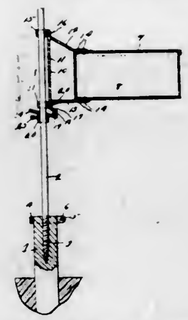
1,340,425. MACHINE FOR FORMING TUBULAR FABRICS. HOMER D. TRACY, Paterson, N. J., assignor to Barbour Flax Spinning Company, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 27, 1919. Serial No. 326,830. 5 Claims. (Cl. 28—4.)



4. A machine of the class described including, in combination, a circuitous race arranged around the axis of intertwining the yarns, spaced uprights supporting said race at intervals and having guideways extending across the race, spaced means movable along the race for conveying around one set of yarns, and shifters for the other set of yarns movable in the guideways.

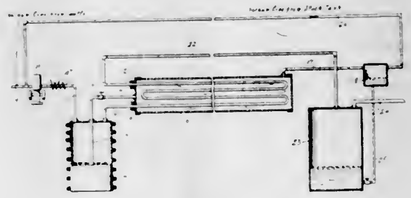
1,340,426. RURAL-MAIL-BOX SUPPORT OR HOLDER. MARTIN L. VICK, Sheyenne, N. D. Filed Mar. 29, 1918. Serial No. 225,443. 1 Claim. (Cl. 248—19.)

The combination with a perpendicular standard, of a bracket carrying a mail box pivotally mounted in the standard, a roller carried by said bracket and engaging an inclined round plate, said plate being provided with means whereby it may be adjusted to any position vertically or circumferentially so that the lower side of the inclined plate may be positioned in any radial position relative to the standard that it is desired for the mail box to always be returned to, said plate being of sufficient diameter so that the roller will be in engagement with



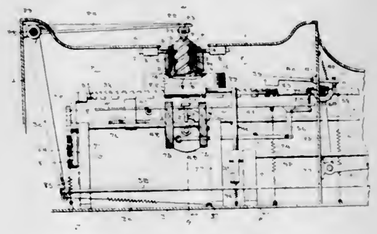
the inclined plate during a swinging movement to one side or the other or during a complete revolution.

1,340,427. ART OF AND APPARATUS FOR COOLING AND CONDENSING GASOLENE OR LIGHT VAPORS. AUSTIN A. WEHR, Baden, Pa. Filed July 2, 1919. Serial No. 308,098. 4 Claims. (Cl. 196—25.)



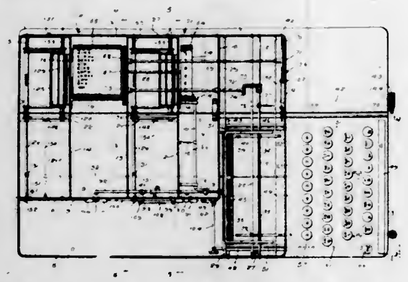
1. In the art of producing gasolene and light oils from vapor, a step which consists in compressing the vapor in an accumulator chamber and thereby separating a certain portion of liquid from the vapor, causing a certain portion of the vapor in said chamber and under relatively high compression to become suddenly expanded in a relatively large chamber to thereby suddenly reduce the pressure and cause intense cold within the chamber, and conducting the remainder of the vapor from said accumulator chamber through said cooler chamber to thereby cause the condensation of the gas.

1,340,428. BANK-CHECK WRITER. CHARLES WENPELKEN, Tivoli, Tex. Filed Nov. 28, 1916. Serial No. 133,934. 22 Claims. (Cl. 197—6.5.)



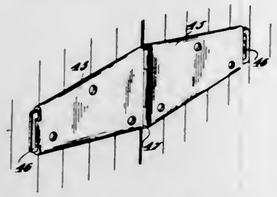
1. In a typewriting machine, two sets of type arranged to print at two different points of the machine, keys controlling said type, means for feeding paper past one of said points and then past the other, a platen operable in connection with each set of type, and means for nullifying the printing function of either set of type and corresponding platen.

1,340,429. CHECK-WRITER. CHARLES WENDELKEN, Robstown, Tex. Filed May 24, 1918. Serial No. 236,360. 33 Claims. (Cl. 197—6.5)



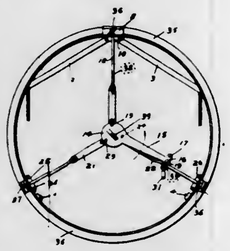
2. A typewriting machine embodying two sets of different type arranged to print at two different points of the machine, keys controlling the type, paper feeding means controlled by the keys and operable for feeding a sheet past one of said points for the operation of one set of type and then past the other point for the operation of the other set of type, and means for shifting the feeding means during the travel of the sheet from the first to the second point to change the position of the sheet for the operation of the second set of type.

1,340,430. SECURITY SHEATH HINGE AND DOOR FASTENING. FRANK WRIGHT, Blairmore, Alberta, Canada. Filed Nov. 28, 1919. Serial No. 341,043. 1 Claim. (Cl. 16—108.)



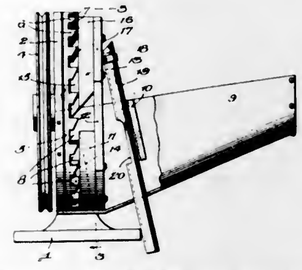
A device of the class described, comprising a tubular tapered member designed to be secured to a door and having a tongue, a hinge member slidably engaging the tubular member and provided with a slot, means for securing the tubular member to the door, the said means underlying the hinge member, the tongue being designed to be bent over and engage with the slot, as and for the purpose specified.

1,340,431. TIRE-CARRIER. PAUL BARNUM, San Francisco, Calif. Filed June 2, 1919. Serial No. 301,337. 3 Claims. (Cl. 224—29.)



1. In a tire carrier, the combination of a ring, supports for said ring, said supports being attached to a car, a laterally projecting member near the top of said ring, the outer end of said lateral member being supported by said supports, hinged lateral members substantially one hundred and twenty degrees removed from said upper lateral member, a circular member equidistant from said lateral members, links pivoted to said lateral members and to said circular member, said links being bent substantially midway of their length, a handle integral with said circular member, said handle having a T-shaped head adapted to engage openings in either of two said links, a stop carried by said T-head, and means for locking said handle in a fixed position.

1,340,432. MACHINE FOR DROPPING BULLETS, &c. CLARENCE F. BENJAMIN, Milford, Conn. Filed Sept. 18, 1919. Serial No. 324,648. 5 Claims. (Cl. 86—45.)



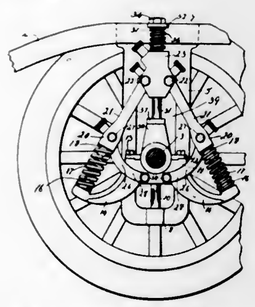
1. A machine of the class described, comprising a support, a shaft journaled thereon, a pick-up wheel having an annular series of outwardly beveled teeth adjacent its periphery on one side face, and means coöperating with the beveled ends of the teeth to arrange the articles properly between the teeth.

1,340,433. ATOMIZER. JOHN H. BEYNON, Ontario, Calif. Filed Dec. 2, 1918. Serial No. 265,043. 12 Claims. (Cl. 128—178.)



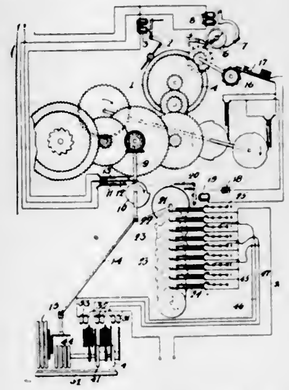
11. An atomizer comprising in combination, liquid and air tubes having their discharge ends in atomizing relation, a normally open delivery tube housing the discharge ends of said liquid and air tubes, and a reservoir structure for supplying liquid to said liquid tube and including a trap for preventing liquid from discharging through said normally open delivery tube irrespective of the position of said atomizer.

1,340,434. VEHICLE SUSPENSION AND SHOCK-ABSORBER. FLETCHER O. BOSWELL, Philadelphia, Pa. Filed July 27, 1917. Serial No. 183,044. 6 Claims. (Cl. 267—15.)



1. A vehicle suspension and shock absorber comprising in combination with a vehicle and the axle thereof, a support secured to the vehicle in the region of an axle, a foot formed with the support to act as a guide, a head detachably secured to the support, a split bracket detachably secured to the end of the axle, means carried by the split bracket having sliding engagement with the foot of the support and the head, legs projecting from the split bracket, toggle levers pivoted to the head and the split bracket and a plurality of springs arranged between the horizontal pivot points of the toggle levers and the legs of the split bracket.

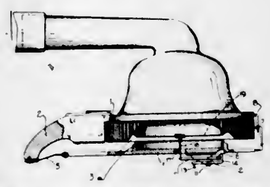
1,340,435. COST-KEEPING MACHINE. JAMES W. BRYCE, Binghamton, New York, assignor to The International Time Recording Company of New York, a Corporation of New York. Filed Jan. 22, 1919. Serial No. 272,447. 18 Claims. (Cl. 235—92.)



1. A computing apparatus comprising in combination a series of circuit closers, means for operating the same at a given time rate, each circuit closer, when so operated, having a different frequency or rate of closure which corresponds to the individual digit values from one to nine, a series of counter wheels, a plurality of electromagnets each of which corresponds to a certain digit position value for operating the individual wheels and electrical connectors adapted to connect any one of said magnets with any one of said circuit closers, said connection being made to the closers in accordance with the digit value and to the magnet in accordance with the digit position value.

5. A counter mechanism comprising in combination a train of registering disks with intermediate transfer mechanisms, the disks of the train representing units of different orders and the entire train making up a complete single counter unit, a plurality of disk propelling means, differential gears one side of which is in gear with the transfer mechanism of the disk of the next lower order of units, and the other side in gear with the disk propelling means, and the central gears of which impart movement to the disks whereby the said disks may be moved one by the other or independently.

1,340,436. FLOATING-WEIGHT SOUND-BOX. ERWIN CASSCA, Gloversville, N. Y. Filed Feb. 3, 1919. Serial No. 274,775. 1 Claim. (Cl. 274—34.)

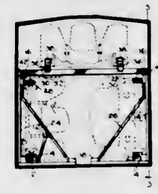


A sound box having a diaphragm, a weight arm connected for free movement in relation to the box, a stylus lever carried by the weight arm, an intermediate lever carried by the weight arm, and a connection intermediate one end of said last mentioned lever and the diaphragm, the respective levers being formed with inclined interfitting faces.

1,340,437. METAL ALLOY. GEORGE C. DEETER, Mechanicsburg, Pa. Filed June 18, 1919. Serial No. 304,981. 2 Claims. (Cl. 148—24.)

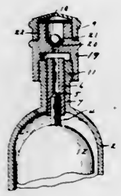
2. A compound containing as its principal parts, metallic arsenic five per cent. and lead ninety per cent.

1,340,438. AUTOMOBILE-SUPPORT. JAMES N. DUNCAN, Detroit, Mich., assignor to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed May 14, 1919. Serial No. 296,994. 11 Claims. (Cl. 105—368.)



1. A shipping structure for automobiles having, in combination, means for supporting two automobiles standing on their sides and means also connected to said first mentioned means for supporting a third automobile in upright position.

1,340,439. RADIATOR AIR-VALVE. CONRAD FEUSER, Bloomfield, N. J. Filed Apr. 30, 1918. Serial No. 231,601. 4 Claims. (Cl. 137—122.)



1. As an article of manufacture, a valve case having its lower end internally threaded to receive the screw threaded head of a thermostatic radiator valve and to provide a chamber thereover, and its upper end threaded to receive said radiator valve cap in combination with a ball check valve within said case, whereby air may be expelled from but prevented from returning to said radiator valve.

1,340,440. MEANS FOR TREATING VEHICLE-TIRES DURING VULCANIZING. FORREST G. FLEGAL, San Diego, Calif., assignor to The Savage Tire Company, San Diego, Calif., a Corporation of California. Filed Nov. 7, 1918. Serial No. 261,493. 4 Claims. (Cl. 18—34.)



1. A device of the character described including a bead mold adapted to embrace the base of a tire carcass, in

combination with pressure rings fitted removably against the sides of the bead mold and extending beyond the same into engagement with the sides of the tire to prevent lateral distortion thereof, said pressure rings being adapted to be held in position by superposing a number of the molds and rings upon each other.

1,340,441. SHEET-METAL BOAT OR OTHER VESSEL. WILLIAM GARDNER, Broomhill, Glasgow, Scotland. Filed Mar. 27, 1920. Serial No. 369,398. 1 Claim. (Cl. 9—6.)



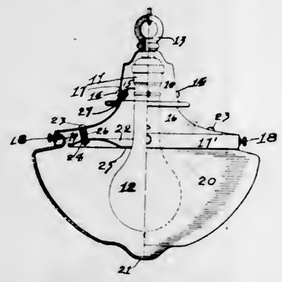
A vessel constructed of sheet metal formed in longitudinal steps, each step increasing in effective depth toward the bow and stern as required by the shape of the vessel.

1,340,442. ANIMAL-TRAP. WILLIS B. GILMORE, Idaho Springs, Colo. Filed Aug. 30, 1919. Serial No. 320,880. 4 Claims. (Cl. 43—81.)



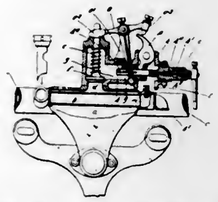
4. An animal trap, comprising a spring-actuated ball, an anchoring spike connected in operative relation with the ball and occupying an upright position when the trap is set, the head of the spike having a notch, a trigger movably connected with the ball, and a bait-holding device movably mounted on the spike, the trigger being adapted to engage with the bait-holding device and engage the notch of the spike when the trap is set.

1,340,443. LIGHTING-FIXTURE. HOMER E. GLEASON, Seattle, Wash. Filed Aug. 12, 1919. Serial No. 317,095. 3 Claims. (Cl. 240—92.)



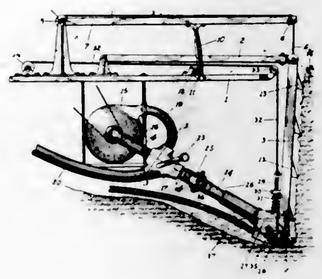
1. The combination in a lighting fixture of a flared canopy, means to support said canopy, an electric lamp socket in spaced relation to said canopy, an electric lamp mounted in said socket, a bowl having a complete diffusion surface of high efficiency supported by said canopy and inclosing said lamp, an annular reflector carried by said canopy, there being an annular passage intermediate the skirt of the lamp and the reflector and also intermediate the bowl, and the outer edge of the reflector, means to hold said reflector in spaced relation to the canopy.

1,340,444. VAPORIZER FOR COMBUSTION-ENGINES. WALTER HENRY HAYES, London, England. Filed Jan. 27, 1919. Serial No. 273,272. 4 Claims. (Cl. 123—129.)



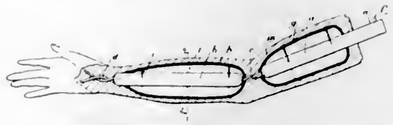
1. A vaporizer for internal-combustion engines working with paraffin or the like liquid fuel, comprising a vaporizing chamber, a heating pipe passing through said chamber for conveying exhaust gases from the engine; a mixing chamber for the exhaust gases, air, and fuel, a main inlet valve between said mixing and vaporizing chambers, an air inlet to said mixing chamber together with an inlet for the exhaust gases—a fuel nozzle with needle valve control, a wick feed to said fuel nozzle, a controlling valve mounted so as to slide axially in relation to said fuel nozzle and controlling the inlet of fuel, and exhaust gases and air to said mixing chamber and means for actuating both the main and controlling valve from one lever.

1,340,445. COMBINATION EXCAVATOR, CRUSHER, AND DREDGER. WILLIAM A. HUELSDONK, San Francisco, Calif. Filed July 31, 1919. Serial No. 314,430. 4 Claims. (Cl. 37—9.)



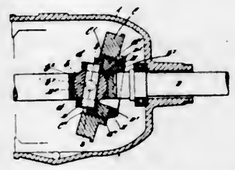
1. A combination excavator, crusher, and dredger comprising a frame, a walking beam pivotally mounted to the frame and adapted for vertical movement, a stamp-beam pivoted at one end of the walking beam, picks on the outer edge of the beam, a stamp-head on the lower end of the beam, a suction pump whose intake is adjacent the stamp-head, and a grizzly between the intake and stamp-head whereby rocks of large size will not be carried into the intake until broken up by the stamp.

1,340,446. ARM FOR EXHIBITION LAY FIGURES. PIERRE IMANS, Paris, France. Filed Jan. 22, 1920. Serial No. 353,161. 2 Claims. (Cl. 211—13.)



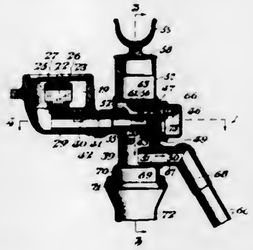
1. An arm for exhibition lay figures comprising in combination a central rigid stiffener, a hollow core of a light weight material secured to said stiffener and an outer layer of a flexible plastic composition embodying gelatin molded on said core.

1,340,447. POWER-TRANSMISSION DEVICE. MAURICE KERR INGOLDBY, Westminster, London, England, assignor to Vickers Limited, Westminster, London, England. Filed Oct. 2, 1918. Serial No. 256,624. 8 Claims. (Cl. 64—91.)



1. The combination with a rotary driving member and a rotary driven member, of a combined pin-joint and sliding block-joint connection between said members for causing the driven member to rotate at a constant angular velocity throughout each revolution.

1,340,448. ANESTHETIC-ADMINISTERING APPARATUS. WILLIAM A. JOHNSTON and ARTHUR W. BROWNE, Prince Bay, N. Y., and FREDERICK L. WALLACE, Philadelphia, Pa., assignors to the S. S. White Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Oct. 7, 1913, Serial No. 795,699. Divided and this application filed Sept. 7, 1918. Serial No. 252,988. 8 Claims. (Cl. 128—203.)



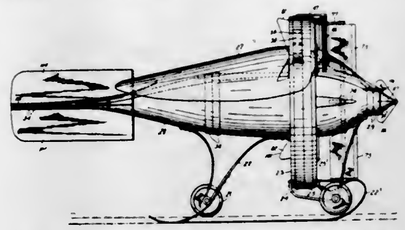
1. An anesthetic administering apparatus having a passageway for the gaseous anesthetic, and including therein mechanism for infusing a volatile liquid anesthetic into said gaseous anesthetic, comprising a chamber for said liquid anesthetic, and a reticulated cylinder having one side dipping into the liquid and through which cylinder the gas is directed to atomize and absorb the liquid held in said cylinder by capillary attraction.

1,340,449. PROCESS FOR FORMING TWO-PIECE CAPS FOR RECEPTACLES. CHARLES R. KEERAN, Chicago, Ill. Filed Nov. 13, 1917. Serial No. 201,767. 3 Claims. (Cl. 113—116.)



1. The process of forming a two-piece receptacle cap consisting in: blanking out a circular disk; punching the disk in the form of a cup; beveling inwardly the portions of the cylindrical wall adjacent to the bottom of the cup; severing the bottom from the cup at the line of juncture between its cylindrical and beveled portions, to provide a disk of less diameter than the cup; turning the beveled edge of the severed disk to provide a flange; spinning the cylindrical remains of the cup to provide an inturned flange at one end thereof; and assembling the disk within the cup to provide a two-piece cap, substantially as described.

1,340,450. AEROPLANE. JOSEPH KLEIDMAN, New York, N. Y. Filed Dec. 11, 1917. Serial No. 206,604. 5 Claims. (Cl. 244—29.)

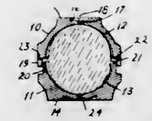


2. A flying machine, comprising a frame, two aeroplane sections hinged to said frame substantially parallel to the longitudinal axis of said frame, a vertically disposed rudder pivoted to said frame, a horizontally disposed rudder also pivoted to said frame, and a single means for shifting said aeroplane sections around their hinges and for actuating both of said rudders, said last-named means permitting said aeroplane sections to be actuated, at will, independently of each other in either direction or simultaneously in the same or opposite directions.

1,340,451. ALLOY. THEODOR KOCH, Newark, N. J., assignor to American Platinum Works, a Corporation of New Jersey. Filed Aug. 24, 1918. Serial No. 251,253. 3 Claims. (Cl. 75—1.)

1. An alloy containing not less than 75% of gold, 1% to 5% of manganese and 24¾% to 3.3% of nickel.

1,340,452. METHOD FOR MOLDING PLASTIC MATERIALS. DIRK S. LANDSTRA, South Orange, N. J. Filed Oct. 5, 1918. Serial No. 256,932. 5 Claims. (Cl. 25—27.)



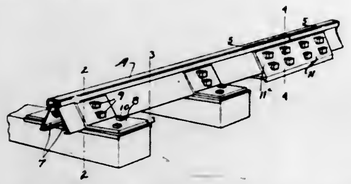
2. A process of making balls from plastic material which consists in first bringing the material to an elongated ball shape in one mold and then finishing it to its spherical shape in another mold by pressure longitudinally of its major axis.

1,340,453. RIFLE-GRENADE SIGHT. PETER LERA, San Francisco, Calif. Filed Oct. 16, 1919. Serial No. 331,089. 7 Claims. (Cl. 33—56.)



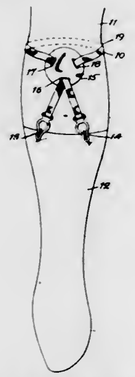
1. Sight for grenade guns consisting of a member with means for affixing the same in predetermined alinement with the gun; a sight arm, and pivot means between the arm and said member; a quadrant fixed to said member and calibrated for elevation and means for clamping said quadrant interposed between the member and the arm by which the elevation may be fixed.

1,340,454. RAIL. WALTER MCCLENAHAN, San Francisco, Calif. Filed July 5, 1918. Serial No. 243,282. 11 Claims. (Cl. 238—134.)



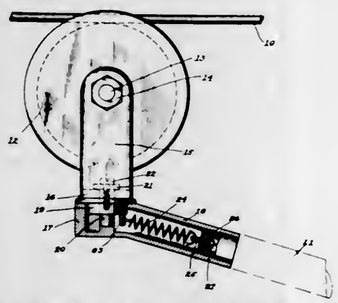
3. A rail comprising a hollow metal shell forming a head and a pair of web members, a concrete filler for the hollow shell, and a resilient filler interposed between the concrete filler and the head of the rail.

1,340,455. GARTER. ROBERT W. MERRITT, New York, N. Y. Filed June 5, 1918. Serial No. 238,381. 1 Claim. (Cl. 241—6.)



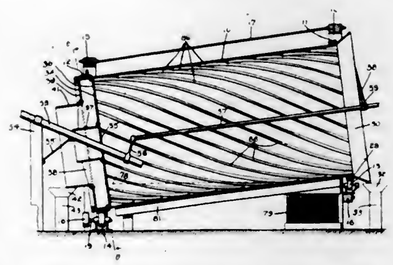
The combination, in a garter, of a cloth pad having in its central part triangularly disposed spaced slits, and a flexible strip having both end portions disposed in crosswise arrangement therethrough to provide a loop in the central part of the strip, said pad being adjustable on the strip whereby the loop may be reduced and enlarged in size.

1,340,456. TROLLEY-HARP. JAN MILLER, Brooklyn, N. Y. Filed July 23, 1919. Serial No. 312,655. 1 Claim. (Cl. 64—70.)



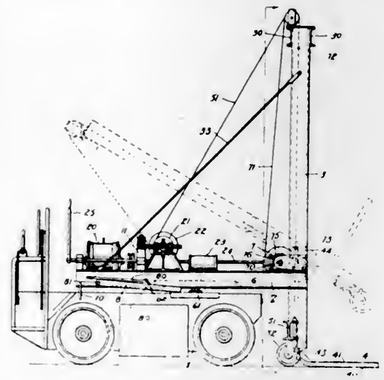
In a trolley harp, the combination with a pole, and a supporting means therewith, of a harp pivotally mounted on said support, a grooved wheel rotatably mounted in said support, said wheel being adapted to engage with a trolley wire, a stem extending from said support into said harp on which it is rotated, means for holding said harp on said stem, a cylindrical extension formed with said harp engaging in said support, a pin set in the periphery of said extension, a screw-threaded sleeve engaged in said support near its connection with the trolley pole, a stem adjustably mounted in said sleeve, and a spring engaging between said stem and said pin whereby said trolley wheel is normally held in alinement with the trolley pole.

1,340,457. APPARATUS FOR SEPARATING MAGNETIC MATERIAL. EDMUND NEWTON, Minneapolis, Minn. Filed July 20, 1916. Serial No. 110,314. 16 Claims. (Cl. 83—71.)



7. A separator of magnetic material comprising a rotating receptacle, said receptacle being open at one end and partially open at the other end and being mounted so that during its rotation the bottom thereof shall continually slope upwardly toward the open end, means for feeding a mixture of magnetic and non-magnetic materials into the receptacle through the partially closed end, magnetic means for holding the magnetic material upon the lower portion of the receptacle, means within said receptacle and movable therewith for engaging said held material and forwarding it longitudinally of the receptacle up said inclined bottom and out of the open end thereof, and means for permitting the discharge of heavy non-magnetic particles from the lower end of said receptacle.

1,340,458. PORTABLE FREIGHT-STACKING ELEVATOR. GEORGE F. NICHOLSON and GODTFRED WHITESTONE, Seattle, Wash. Filed May 24, 1919. Serial No. 299,391. 10 Claims. (Cl. 187—11.)



1. A freight stacking elevator comprising a frame adapted to be detachably secured to a portable base, hoistways carried by one end of this base and extending both above and below said frame and carrying supporting members engaging the floor, means for raising said hoistways to clear them from the floor, a freight receiving platform movable on said guideways, and means carried by said frame for operating said platform.

1,340,459. CHIMNEY-CAP. ANDREW MAGNUS PETERSON, New Athens, Ohio. Filed Apr. 28, 1919. Serial No. 293,126. 4 Claims. (Cl. 72—88.)



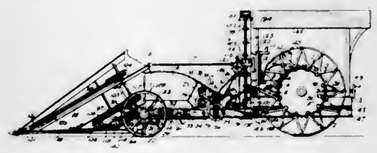
1. A chimney cap comprising lineal blocks and corner blocks, each formed with an inwardly projecting ledge having a longitudinal channel in its upper face, each corner block also having a vertically disposed socket therein with which the longitudinal channel thereof communicates and having a laterally extending channel leading from said socket, and tie-rods disposed in said channels for securing said blocks against displacement, said rods having angular end portions received in the sockets of opposite corner blocks for interlocking the latter and the interposed lineal blocks in place.

1,340,460. MULTIPLE REPRODUCTION OF PATTERNS. GINO PICCIONI, Tivoli, Italy. Filed Dec. 22, 1917. Serial No. 208,513. 3 Claims. (Cl. 112—266.)



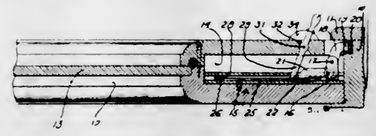
1. The process of simultaneously reproducing in a plurality of fabrics, patterns or designs which consists in dissecting the pattern or design into very small separate fragments, each fragment bearing a color represented by a previously fixed number, successively determining the numbers corresponding to the colors of each fragment and the extent thereof, selecting the various threads corresponding in number and color to the extent and colors of the separate fragments for reproducing the same, passing said threads close one to the other in their selected successive order through the spaced fabrics arranged in stretched condition parallel to each other, then cutting the threads between each two adjacent fabrics, and finally submitting each fabric to a felting operation thereby permanently fixing on one side thereof the loose short ends of the threads exactly reproducing the original pattern.

1,340,461. COMBINATION TRACTOR IMPLEMENT. ANDREAN G. RONNING and ADOLPH RONNING, Minneapolis, Minn. Filed Mar. 6, 1916. Serial No. 82,516. 16 Claims. (Cl. 56—16.)



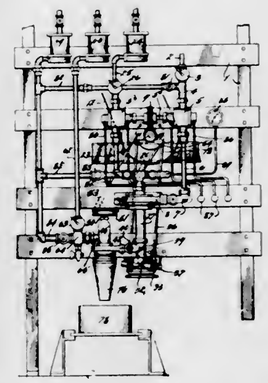
3. A machine of the class described, comprising a self-propelled vehicle, an agricultural implement disposed in advance of said vehicle and pushed thereby, dirigible means supporting said implement and means carried by said implement and actuated by engagement with standing stalks for steering said dirigible means.

1,340,462. SASH-LOCK. BOLESLAW RUCZYNSKI, Indiana Harbor, Ind. Filed Aug. 23, 1919. Serial No. 319,473. 1 Claim. (Cl. 292—196.)



In a sash lock, the combination with a window frame, and a window sash slidably engaged therein, of a rack fixedly engaged in said window frame adjacent to the pathway of said sash, a plate fixed in said sash, brackets extending into a recess in said sash from said plate, a lever pivoted in aid brackets, a detent formed with said lever engageable with the teeth of said rack, a slide movable on said plate within said recess, a link engaging said slide and the lower end of said lever, pairs of guide levers engaged with said slide whereby it is caused to move in a straight path transversely in the mentioned recess, and an actuating handle engaged with said slide, extending through said sash into position for operation.

1,340,463. ARTIFICIAL-FUEL MACHINE. JACOB SCHAUB, Newark, N. J., assignor to The Theroz Company, New York, N. Y., a Corporation of Delaware. Filed May 28, 1919. Serial No. 300,364. 14 Claims. (Cl. 18—13.)



1. The combination of means to mix a colloid and alcohol together, means to incorporate an inflammable substance within such mixture, and means to separate and confine said substance in globular form within said mixture.

1,340,464. MIXING-MILL. JACOB SCHAUB, Lawrenceburg, Ind., assignor to The Theroz Company, New York, N. Y., a Corporation of Delaware. Original application filed May 28, 1919, Serial No. 300,364. Divided and this application filed Nov. 22, 1919. Serial No. 339,916. 3 Claims. (Cl. 259—8.)

1. The combination of a conduit having an inlet and an outlet, a tubular shaft rotative therein and having

holes for the flow of material from the shaft into the conduit and means to supply said shaft with fluid, means



to rotate the shaft, said shaft having an exterior worm to force the material through the conduit.

1,340,465. EMBLEM STRUCTURE. THOMAS P. SEASTRUNK, Dallas, Tex. Filed May 9, 1918. Serial No. 233,438. 2 Claims. (Cl. 2—150.)



1. The improvement in the manufacture of insignia which consists in first forming the design from a plurality of detachably arranged metallic plates, each plate being stamped or embossed with the design desired, then forming the rigid base with a contour required by the design, then covering said base with cloth and finally uniting the plates to the base by fasteners traversing the cloth and united to the rear face of said base.

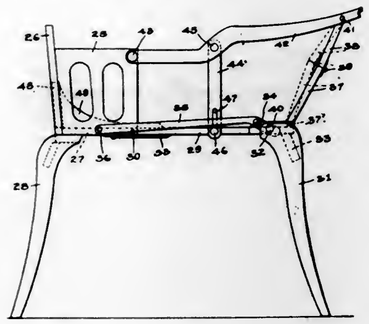
1,340,466. CHURN. ROBERT A. THOMPSON and LUTE P. MORRIS, Dallas, Tex., assignors to International Manufacturing Company of Texas, Dallas, Tex. Filed Sept. 25, 1919. Serial No. 326,236. 3 Claims. (Cl. 259—91.)



1. In a churn of the character described, a receptacle, a cover for the open end of the receptacle, said cover having a top which is substantially conical and tapers upwardly, said cover having an inner flange secured thereto and adapted to fit snugly within the free end of the receptacle, said cover also having an outer flange secured thereto and surrounding the first named flange and receptacle in spaced relation, a gasket held between the flanges and engaging the free end of the receptacle, a cap provided with a flange of smaller diameter than the cover and engaging the conical top thereof, and means connected with the receptacle to draw the cap inwardly toward the same.

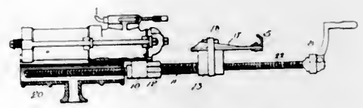
1,340,467. CONVERTIBLE FURNITURE. VANDEVERE TIFFIN, Tacoma, Wash., assignor, by direct and mesne assignments, to Combo Manufacturing Co., Seattle, Wash. Filed Nov. 3, 1917. Serial No. 200,455. 6 Claims. (Cl. 155—6.)

1. A device of the class described comprising a chair portion having rear legs fixedly mounted thereon, and provided with a seat, a back and side arms, a bed plate hinged to the front edge of said seat, legs pivotally mounted on said bed plate, an end plate articulated with



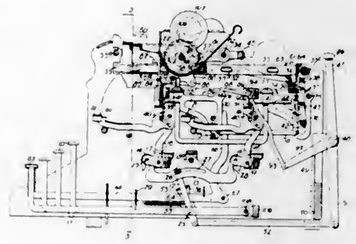
the outer end of said bed plate, links connecting said end plate with said side arms and supports connecting said bed plate with said links.

1,340,468. POWER-DRILL. JAMES C. H. VAUGHT, New York, N. Y. Filed Dec. 6, 1917. Serial No. 205,711. 17 Claims. (Cl. 255—45.)



1. In a rock drilling machine of the mounted type, an eye or opening in the rear end of the cylinder of the machine, a tube located in said eye and having a smooth inner surface and a threaded outer surface, means for holding the tube and cylinder in rigid unison, a feed screw located in said tube, a housing located on said tube and provided with a slot, a gib located in said slot, a band surrounding the housing and gib to hold the same in unison, and means to raise and lower the gib.

1,340,469. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1917. Serial No. 199,722. 88 Claims. (Cl. 197—5.)



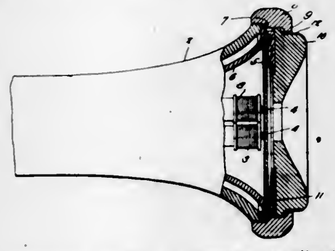
83. The combination with a platen, of a plurality of type-sets arranged in line, one back of another, each set comprising upper and lower case types, said type-sets being separated from each other, actuating means including key-levers in line in front, means to cause a relative movement between said type-sets and said platen to render either set effective with said platen, and a stop to limit said relative movement.

1,340,470. BOLTING-UP DEVICE. FREMONT F. WHITMORE, Seattle, Wash. Filed Mar. 6, 1919, Serial No. 281,011. Renewed Apr. 7, 1920. Serial No. 372,096. 2 Claims. (Cl. 85—3.)



2. A bolting-up device for tightening plates together comprising a member threaded at one end thereof and adapted to be held against rotation on its threaded end, a nut carried by said threaded end, the unthreaded end of said member adapted to be inserted through the holes in said plates, angularly shaped slots provided on opposite sides of said unthreaded end, pins pivotally disposed within said slots having shoulders adapted to abut against the shoulders of said slots when swung to a lateral position, whereupon said plates can be urged together when said nut is screwed down tightly.

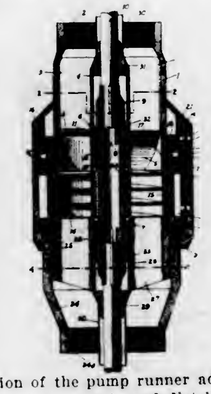
1,340,471. VIBRATORY-DIAPHRAGM CONTROLLER. MARSHALL I. WILLIAMSON, Baltimore, Md. Filed May 13, 1919. Serial No. 296,769. 1 Claim. (Cl. 179—114.)



In a telephone receiver, a housing, a vibratory diaphragm seating on the outer end of the housing, an ear piece over the diaphragm, a ring carried by said end of the housing and having an internal shoulder engageable with the diaphragm adjacent to its periphery for clamping the same to the housing end, said ring also having a second internal shoulder and being internally screw-threaded between said shoulder and the first-mentioned shoulder, the aforesaid ear piece having a rear portion which is screwed into the aforesaid threaded portion of the ring and is adjustable between the shoulders, and an annular member between the diaphragm and the ear piece and engageable with the former adjacent to its periphery, said ear piece being adjustable to force the aforesaid member into contact with the diaphragm to a greater or less extent radially thereof, thereby to vary the diameter of the vibratory portion of the diaphragm.

1,340,472. DEEP-WELL PUMP. HERBERT J. WOOCK and WALTER R. WOOCK, Lodi, Calif., assignors to Superior Manufacturing Company, Lodi, Calif., a Corporation. Filed Apr. 24, 1919. Serial No. 292,515. 6 Claims. (Cl. 103—43.)

6. A pump for deep wells comprising a plurality of rotary pump units spaced apart, each unit comprising an upper and a lower casing spaced apart and connected by a third casing, the first named casings being adapted for connection to well-casings and being provided with hubs central thereof, a sleeve turnably mounted in the hubs and extending from one to the other, the sleeve being adapted for sliding driving connection with independet drive shafts at its upper and lower ends, an inclosed spiral pump runner keyed to the sleeve between the first two named casings and having a running fit with the walls of the third casing, and means whereby the sliding and rotatable members will be automatically lubricated with the rotation of the driving shafts, such means including chambers in the hubs and sleeve adapted to contain oil, a reservoir formed in one of the casings in communication with the chamber in the sleeve, a screw conveyer operable



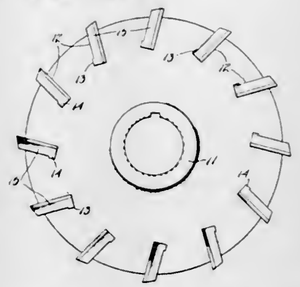
with the rotation of the pump runner adapted to lift the oil contained in the reservoir and distribute it about the bearing parts of the runner and means whereby surplus oil will drain into the reservoir.

1,340,473. JAR-SEAL TESTER. EDWARD B. BIRKENBEUEL, Portland, Oreg. Filed Mar. 20, 1919. Serial No. 283,781. 3 Claims. (Cl. 33—191.)



1. In a device for testing flexible metal jar caps, a body member of a relatively rigid material having a flat bearing surface bounded by a pair of integral downwardly extending ends and having at a point midway between said ends a marking scribe having a pointed tip extending below the bearing face of said bar.

1,340,474. DETACHABLE-TOOTH CUTTER. CLARENCE G. CASHMAN, Waynesboro, Pa., assignor to Cashman Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Apr. 5, 1919. Serial No. 287,797. 3 Claims. (Cl. 29—105.)

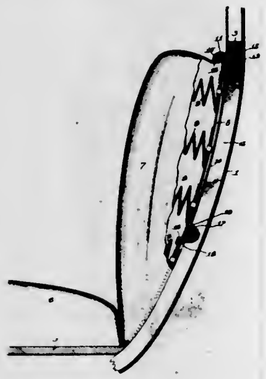


1. A cutting tool comprising a plurality of cutters, each comprising substantially a blade having parallel surfaces, a bead formed along one edge and a cutter head having slots formed in parallelism with its axis of rotation and complementary to the cutter permitting the driving of the cutter into the slots by a movement in parallelism with the axis of rotation.

1,340,475. UPHOLSTERY-FASTENING MEANS. WELLS N. COLLAR, Detroit, Mich. Filed Jan. 10, 1920. Serial No. 350,588. 5 Claims. (Cl. 155—184.)

1. Upholstery fastening means adapted for holding a cushion having a resilient frame supporting springs, com-

prising clips extending into the cushion to anchor the lower portion thereof, and a molding under which the upper portion of the cushion is placed so that the resilient



frame may be bowed relative to a plane connecting said molding and clips and by virtue of its resiliency produce tension of the frame against said clips and molding to hold the cushion in engagement therewith.

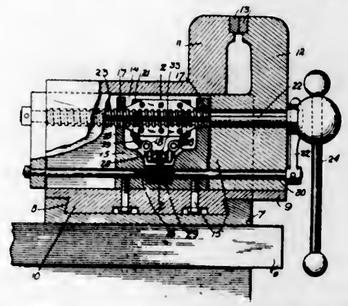
1,340,476. PAD FOR UMBRELLA-TIPS. RICHARD J. D'AQUIN, New Orleans, La. Filed Sept. 26, 1917, Serial No. 193,255. Renewed Mar. 25, 1920. Serial No. 368,694. 1 Claim. (Cl. 16—159.)



An attachment for umbrella tips consisting of a resilient cylindrical metal cap open at one end and having the longitudinal slots extending through the open end edge with resilient spring fingers and a rubber body within which the cap is completely embedded, the rubber extending from the exterior of the cap across said slotted end edge of the cap and beyond the inner surface of the wall of the cap whereby to continuously and circumscribingly grip an umbrella tip engaged in the cap and to exclude passage of moisture and other foreign matter into the end and through the slots of the cap.

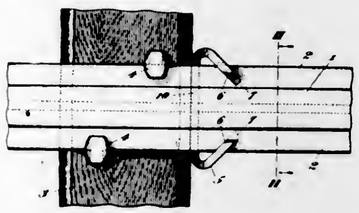
1,340,477. VISE. LUCIEN H. DALLARD, New York, N. Y. Filed July 11, 1919. Serial No. 310,156. 1 Claim. (Cl. 81—36.)

A device comprising a base, a stationary jaw, an adjustable jaw, a yoke carried by said base and provided with perforated arms, a threaded rod carried by the adjustable jaw and passing through the perforations on the arms of said yoke, a split elongated nut having tapered ends adapted to engage and disengage said rod, a plurality of springs carried by the half sections of said elongated split nut for spreading the nut out of engagement with said threaded rod, a plurality of rings adapted to move over the tapered ends of said split nut to cause the same to grip the threaded rod, and a swinging cam mem-



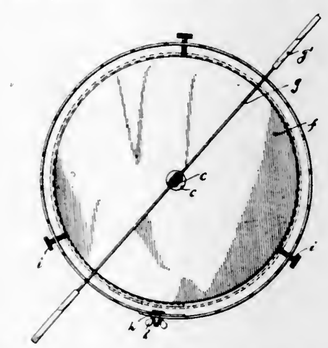
ber adapted to operate said rings to cause engagement of the split nut with the threaded rod, substantially as described.

1,340,478. TRACK-FASTENING AND METHOD OF MAKING SAME. EMIL C. DANNER, Westmont borough, Pa. Filed Aug. 26, 1919. Serial No. 319,977. 6 Claims. (Cl. 238—330.)



1. An integral rail anchor having an intermediate portion, substantially uniform jaws on the opposite ends thereof bent inwardly toward each other and at an angle to the face of said intermediate portion, said jaws having recesses adapting them to be superimposed upon and grip the rail flange, whereby the jaws will converge and ride up on the rail base upon any tendency of the rail to creep.

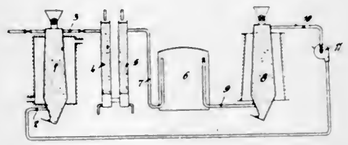
1,340,479. CHEESE-CUTTING MACHINE. WILLIAM FAEHNDRICH, New York, N. Y. Filed Nov. 24, 1919. Serial No. 340,357. 2 Claims. (Cl. 31—68.)



1. In a device for cutting cakes of cheese or the like into individual pieces of uniform weight, the combination with a knife, of a base, a rotary member supported centrally in said base and having a vertical guide for said knife, and a stationary cylindrical and adjustable member mounted around said base and having a plurality of equidistantly arranged parallel vertical guides for said knife.

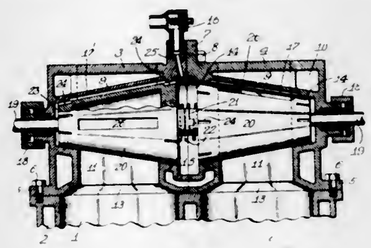
2. In a device for cutting cakes of cheese or the like into individual pieces of uniform weight, the combination with a knife, of a base, a rotary member supported centrally in said base and having a vertical guide for said knife, a stationary cylindrical and adjustable member mounted around said base and having a plurality of equidistantly arranged parallel vertical guides for said knife and means for the removable attachment of said member to said base.

1,340,480. METALLURGICAL PROCESS. ANTONIUS FOSS and BIRGER FJELD HALVORSEN, Christiania, Norway, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Apr. 28, 1919. Serial No. 293,109. 4 Claims. (Cl. 75—17.)



1. The process which comprises passing carbon-dioxid in contact with a metal sulfid at a temperature sufficient to reduce the carbon-dioxid to carbon-monoxid with the simultaneous formation of sulfur dioxid, and removing the sulfur dioxid from the gas mixture.

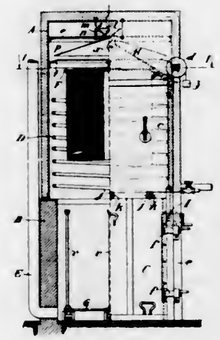
1,340,481. VALVE CONSTRUCTION. DANIEL H. FRANCIS, Detroit, Mich. Filed Jan. 17, 1919. Serial No. 271,565. 12 Claims. (Cl. 123—59.)



5. A valve construction comprising tapering valve bodies disposed end to end, rotary valves in said valve bodies and confronting each other to provide a central chamber, and a coiled spring between said valves in said chamber and having its end convolutions bearing against the confronting ends of said valves and maintaining said valves normally seated in said valve bodies.

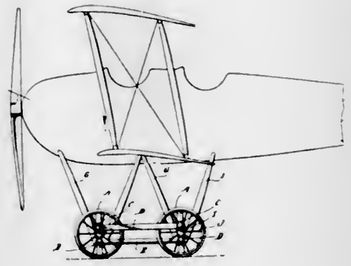
1,340,482. APPARATUS FOR THE STEAMING OF FABRICS. JOSEPH GRASSER, Netstal, Switzerland. Filed Jan. 30, 1920. Serial No. 355,114. 4 Claims. (Cl. 26—7.)

1. An apparatus for the steaming of fabrics, comprising a steam box, open underneath, having well insulated walls and provided with an upper steam inlet and an upper device distributing the steam uniformly over the entire ground surface of the steam box, a goods introduction chamber placed below the said steaming box and having, at its lower part, an outlet for air and steam, so that the steam passing from above into the steam box can drive the air out of the steam box downward through the goods introduction chamber to the said outlet, a star-shaped fabric holder for the spiral suspension of the fabric to be steamed, and a lifting device by means of which the said fabric holder bearing the fabric can be drawn up slowly from below out of the goods introduction chamber into the steam box previously filled with steam, can be left



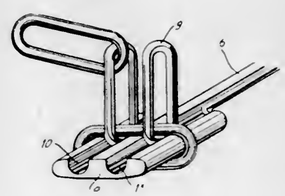
stationary during the steaming process, and, after the steaming, be again lowered slowly into the introduction chamber.

1,340,483. AEROPLANE-UNDERCARRIAGE. FRANÇOIS LEONIDAS GUILLEMET, San Francisco, Calif. Filed Apr. 12, 1919. Serial No. 289,625. 6 Claims. (Cl. 244—2.)



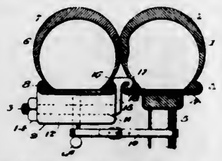
1. An aeroplane undercarriage comprising a frame, a pair of spaced axles carried by the frame for rotary movement, wheels eccentrically mounted on the terminals of the axles for movement therewith, and a rod connecting the wheels together for synchronous movement.

1,340,484. CHAIN-FASTENER. JOHN H. HECKER, New Orleans, La. Filed Nov. 1, 1919. Serial No. 335,097. 3 Claims. (Cl. 152—14.)



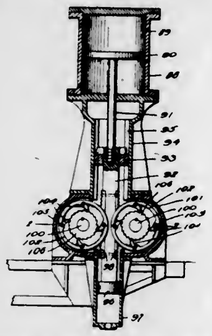
1. In a fastening for tire chains, a body having longitudinally disposed grooves in its face, and a shank on the body adapted to be secured to a rim of a wheel.

1,340,485. SPARE WHEEL FOR VEHICLES. ARTHUR DAVID HOGG, Grand Forks, N. D. Filed Feb. 2, 1920. Serial No. 355,676. 10 Claims. (Cl. 152—23.)



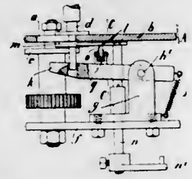
4. In a spare wheel, screw-threaded bolts, an arm projecting from each of said bolts and terminating in oppositely disposed lugs, one of said lugs being hooked-shaped and the other having a rounded end, and a rim in which said bolts are mounted.

1,340,486. TRANSMISSION-GEARING. ROBERT EDWARD JACKSON and BYRD O. YEARWOOD, Princeton, W. Va. Original application filed Dec. 18, 1917, Serial No. 207,755. Divided and this application filed Apr. 9, 1919. Serial No. 288,847. 1 Claim. (Cl. 74—54.)



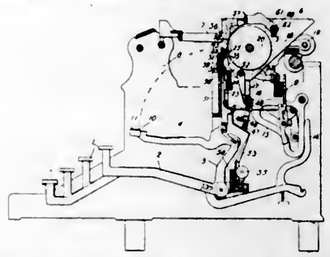
In an apparatus of the character described, a reciprocating member provided upon opposite sides thereof with rack bars, a guide casing surrounding the upper and lower ends of the reciprocating member and adapted to serve as a guide therefor, a gear casing disposed intermediate the ends of the guide casing and comprising an enlargement of the guide casing, a pair of parallel shafts having their ends journaled in opposite sides of the gear casing and disposed on opposite sides of the reciprocating member, a pair of gears rotatably mounted upon the said shafts and engaging said rack bars, wheels rigidly secured to the gears to rotate therewith, pawls within said wheels, ratchet wheels rigidly secured to the shaft and engaged by the pawls, a shaft extending through and rotatably mounted within the gear casing, a gear rigidly secured to said shaft interiorly of the gear casing and a pair of gears rigidly secured to the parallel shafts and engaging said gear, substantially as described.

1,340,487. BRAIDING OR LACING MACHINE. FRANZ KELLNER, Barmen, Germany. Filed Apr. 14, 1917. Serial No. 162,209. 2 Claims. (Cl. 28—4.)



2. In a braiding machine having one bobbin per plate the combination of a spring controlled lever forming an entrance for locking the bobbin, a roller mounted on said lever a rocking disk ejecting the bobbin, means to oscillate said disk, an angular offset projecting from said disk and coöperating with said roller as described and for the purpose set forth.

1,340,488. TYPEWRITING-MACHINE. ALFRED G. F. KUBOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 13, 1916. Serial No. 136,596. 21 Claims. (Cl. 197—135.)



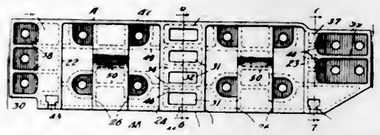
1. The combination with a platen shiftable between upper and lower-case positions, of a line-gage shiftable to keep pace with the case-shift movements of the platen, a plurality of fingers adapted to coöperate with a work-sheet, and movable upon the line-gage between operative and inoperative positions, and adjustable with the line-gage to keep pace with the movements of the platen, and a manually-operable finger-piece for each finger also mounted on said line-gage, each connected to its finger and movable to one position to elevate it and to another position to depress it, and adapted to hold it in either position.

1,340,489. BOX. PERRY C. LAVENBERG, South Bend, Ind., assignor to Wirebounds Patents Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 4, 1915. Serial No. 43,514. 2 Claims. (Cl. 217—12.)



1. A foldable box blank comprising, in combination, a plurality of cleats having their ends positioned in coöperative foldable relationship; a side sheet extending over an inter-cleat interval and distorted adjacent said interval to facilitate bending thereof,—said adjacent cleat ends being constructed and arranged to tend to stretch said distorted side material when folded.

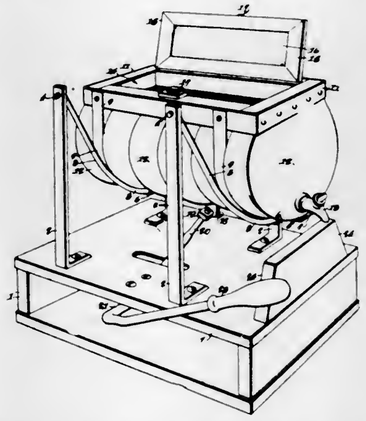
1,340,490. TANDEM DRAFT-RIGGING. GOODRICH Q. LEWIS, Wheaton, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Jan. 31, 1916. Serial No. 75,309. Renewed May 9, 1918. Serial No. 233,608. 2 Claims. (Cl. 213—42.)



1. A tandem gear side casting having front, rear, and center main stops, each having inner bearing surfaces, the front and rear stops being provided with open slots at their lower ends to receive short bolts for supporting

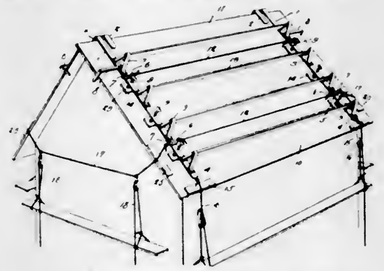
the ends of a follower carrying strap, the center stop having the lower flange perforated to receive a bolt therethrough and a horizontal rib spaced above said flange, said rib being provided with an elongated slot and the inner face of said center stop having an opening between said lower flange and said rib, whereby a short bolt may be inserted through said opening, then tilted with its head through said slot in the rib and finally dropped vertically down into said perforation in the lower flange.

1,340,491. CHURN. DAVID T. LOWE, Ohlman, Ill. Filed Dec. 17, 1919. Serial No. 345,478. 6 Claims. (Cl. 259—91.)



2. In churns, the combination with a base, standards projected from the base, a cradle pivotally hung on the standards and including a bottom plate, a member hinged to said bottom plate, a receptacle carried by said member, said member adapted to lie down on the bottom plate during the operation of the churn to hold said receptacle in the operative position, and means for imparting motion to the cradle.

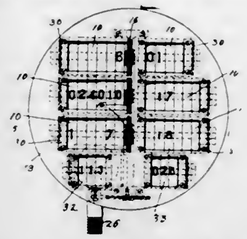
1,340,492. ROOF-BRACKET. PHILIP P. MELANSON, Moncton, New Brunswick, Canada. Filed Oct. 23, 1919. Serial No. 332,720. 4 Claims. (Cl. 304—20.)



1. In a device of the class described a base strip provided at its upper end with a supporting member; a bracket on the base strip and means carried by the base strip for raising and lowering the base strip.

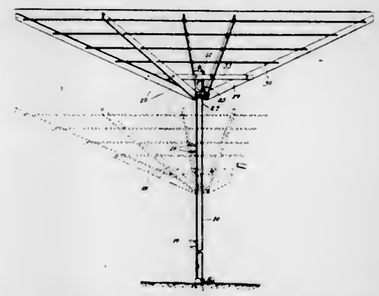
1,340,493. ODOMETER. CHARLES F. MILLER, Lancaster, Pa., assignor to Marvin Smithey, Lawrenceville, Va. Filed Mar. 14, 1918. Serial No. 222,414. 1 Claim. (Cl. 235—97.)

The combination of two series of odometers arranged in axially alining pairs, a worm wheel situated between each pair of axially alining odometers and driving both, a single shaft having a worm for each of said worm



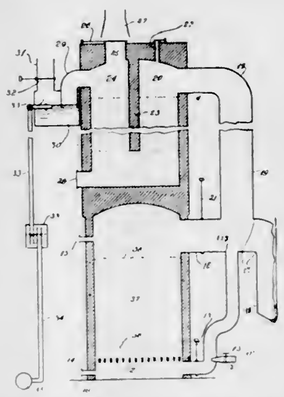
wheels, and means for revolving said worm shaft from a single source of power.

1,340,494. CLOTHES-REEL. CHARLES E. NILES, Fargo, N. D. Filed Jan. 13, 1919. Serial No. 270,906. 4 Claims. (Cl. 68—34.)



1. A clothes drier including a tubular standard having a longitudinal slot, a vertically slidable elongated support arranged within the tubular standard, superposed spaced webs carried by the upper portion of said elongated support and extending through said slot, a sliding sleeve surrounding said standard and connected at its ends to said webs, a clothes supporting device removably carried by the upper and lower ends of said sleeve, and a locking device carried by the lower end of said support and extending through said slot.

1,340,495. PROCESS OF PRODUCING CARBON-HYDROGEN GAS. TIMOTHY O'CONNELL, Brooklyn, N. Y. Filed Sept. 10, 1919. Serial No. 322,934. 7 Claims. (Cl. 48—204.)



1. A process of efficiently producing carbon-hydrogen gas in a generator, which comprises subjecting the first

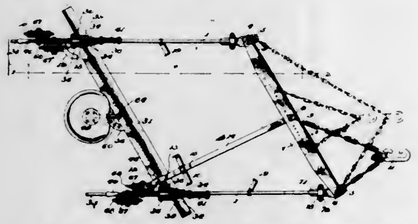
layer of ignited coal to an air blast and a steam blow, both of equal length and directed from beneath the coal, to another air blast and steam blow similar to the former, to an air blast, to a steam-blow directed from the top and lasting ⅓ of the air blast, to a steam blow from the bottom lasting ⅓ of the blast, to a succession of two periods of operations, each period comprising an air-blast and a steam up-blow of equal length, followed by three operations, each consisting of an air blast, a steam down-blow of ⅓ of the blast period and a steam up-blow of ⅓ of the blast period of depositing coal in the center of the fire after the last steam up-blow, following the coaling up with 2 periods of air blast and steam up blows of equal length and continuing the process in the above described order, including the coaling until the last coaling operation before cleaning of the fire has taken place and has been followed up by a double air blast and steam up-blow, subjecting the thus prepared coal up to the point of cleaning to a series of operations consisting of air blasts, steam down-blows of ⅓ of the air blasts, and steam up blows of ⅓ of the air blast periods.

1,340,496. NUT-LOCK. BENJAMIN G. PATTERSON, Fayetteville, Ark. Filed June 30, 1919. Serial No. 307,686. 1 Claim. (Cl. 151—21.)



A one-piece self locking nut provided with a threaded bolt hole, and a transverse slot extending inwardly from one side thereof parallel with the lower face and terminating in a transverse line coincident with a line drawn from diagonally opposite corners, said slot piercing the nut adjacent the non-load face of the nut, and forming a resilient portion, the free end of said resilient portion deflected toward the load portion of the nut.

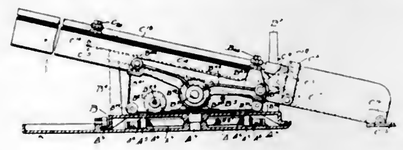
1,340,497. GRADING-MACHINE. JOHN R. PILE, Owensboro, Ky., assignor to International Farm Implement Company, Owensboro, Ky. Filed July 22, 1919. Serial No. 312,487. 8 Claims. (Cl. 37—7.)



2. In a grading machine, the combination of a pair of beams, a blade carried by and extending between the beams, brackets carried by the inner sides of the beams and provided at their forward ends with upstanding studs, a draft bar pivoted at its ends to the front ends of the beams, and a locking brace pivoted at its front end to the beam at the center thereof and provided in its rear portion with a plurality of openings to be engaged over the stud on one of said brackets.

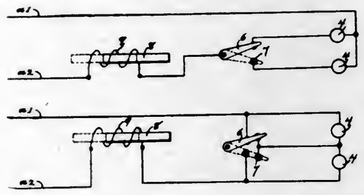
1,340,498. POWER-SHOVEL. CHARLES A. PRATT, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1913. Serial No. 772,521. Renewed Oct. 10, 1919. Serial No. 329,889. 3 Claims. (Cl. 214—137.)

1. A power shovel comprising a base, a turn-table mounted thereon, a shaft mounted on said turn-table, a rocking member mounted on said shaft, a supporting beam slidably connected with said rocking member, a scoop connected with said supporting beam, power actuated means connected directly with said rocking member at separated points on opposite sides of said shaft for moving said rocking member to move said supporting beam to lift the scoop, said shaft, rocking member and power-



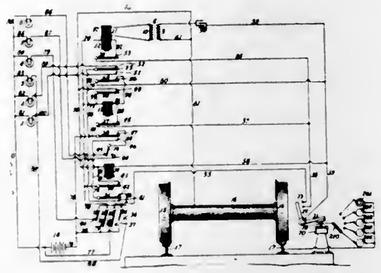
actuated means being located below the top of said supporting beam, a rack on said supporting beam, and a toothed wheel on said shaft engaging said rack, said rocking member and toothed wheel moving about the same axis.

1,340,499. PICTURE-PROJECTION LAMP. WALTER G. PREDDEY, San Francisco, Calif. Filed Feb. 11, 1919. Serial No. 276,306. 1 Claim. (Cl. 176—10.)



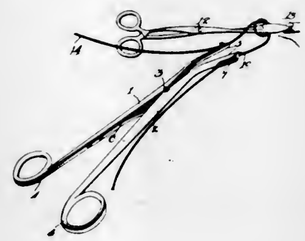
In device of the above description, the combination of a lamp-housing containing a double set of lenses, an incandescent lamp mounted in said lamp-housing for each of said lenses, said lamps connected to an electric circuit containing a source of E. M. F., a means provided for the simultaneous closure of said electric circuit through one of said lamps and the opening of said circuit through the other lamp, and reactance inserted in said lamp circuits.

1,340,500. SIGNAL SYSTEM FOR MOVING VEHICLES. LUTHER RINGER, Buffalo, N. Y., assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y., a Corporation of Arizona. Filed Feb. 15, 1917. Serial No. 148,795. 26 Claims. (Cl. 246—49.)



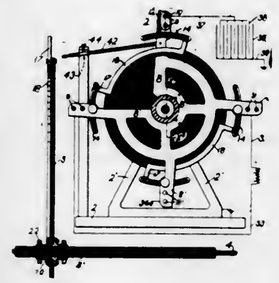
1. The combination with a trackway, of a vehicle adapted to travel thereon, a series of signal rails arranged in succession along the trackway, means for electrically energizing each of them in any one of more than two different ways, means for deënergizing them, a plurality of signals carried by the vehicle, and means controlled by the different characteristically energized rails for independently operating the signals on the vehicle corresponding to the different ways in which the signal rails have been energized or deënergized.

1,340,501. SURGICAL APPLIANCE. LAFE OREN ROBERTS, Portland, Oreg. Filed May 22, 1919, Serial No. 298,967. Renewed Mar. 16, 1920. Serial No. 366,302. 3 Claims. (Cl. 128—321.)



3. A device for tying ligatures, comprising handle members pivoted together to move away from each other at one end when they are pressed together at the other, said handle members having grips at one end and gripping jaws at the other, normally in contact with the said members, and resilient to yield therefrom when the ligature is forced beneath the jaws.

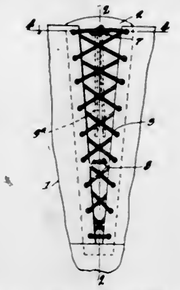
1,340,502. APPARATUS AND METHOD FOR RECTIFYING HIGH-TENSION ALTERNATING CURRENT. WALTER AUGUST SCHMIDT, Los Angeles, Calif., and LINN BRADLEY, East Orange, N. J., assignors to Research Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1915. Serial No. 50,793. 4 Claims. (Cl. 175—364.)



1. A rectifier for high tension alternating current comprising supporting means provided with bearings, a shaft mounted to rotate in said bearings, an insulating rotary disk carried by said shaft and provided with peripheral conducting segments, a stationary member mounted for angular adjustment around the axis of said shaft and provided with means for holding it in angularly adjusted position and with insulating rods, and conductors mounted on the respective insulating rods and provided with shoes extending adjacent to the path of the conducting segments on the rotary disk, said shoes having, respectively, supply circuit connections and load connections.

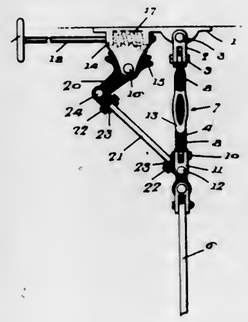
1,340,503. LACED SHOE. ALBERT L. SCHOPPER, Eudora, Kans. Filed Apr. 16, 1919. Serial No. 290,397. 1 Claim. (Cl. 36—54.)

A lace shoe, provided with a tongue having upper and lower openings and a strip secured to the rear side of the tongue and forming a pocket for receiving the loose ends of the lace which are adapted to be drawn into the pocket



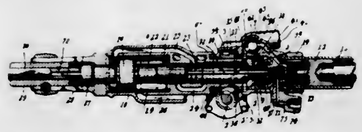
by means of a pull adapted to be passed through the pocket and the openings thereof.

1,340,504. TRACTOR - DRAW - BAR ATTACHMENT. JAMES P. SEITZ, Walla Walla, Wash. Filed Oct. 14, 1919. Serial No. 330,539. 4 Claims. (Cl. 213—67.)



1. A draft attachment embodying a plate, a pivoted bar, an arm pivotally connected to said plate, a link connecting said arm and draw bar, and means carried by the plate for swinging said arm and holding it in various positions to which it is swung.

1,340,505. ROCK-DRILL. WILLIAM A. SMITH, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed June 30, 1917. Serial No. 177,913. 15 Claims. (Cl. 121—4.)



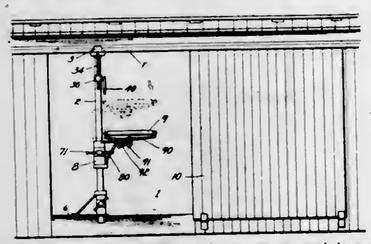
1. In apparatus of the character set forth, the combination with a head block having a socket, a valve casing in the head block at one side of the socket, and a gear casing at the opposite side of the socket, of a drilling motor having a portion journaled in the socket, extensible feeding means connected to the rear end of the head block, channels for conducting motive fluid from the valve casing to the feeding means and to the motor, a throttle valve journaled in the casing for controlling the supply of motive fluid and having a handle at one side of the head block, a rotary motor mounted on the casing at the opposite side of the head block and including gear mechanism in the gear casing, and a handle projecting from the rotary motor.

1,340,506. GRAIN-DOOR. NEAL SMITHBACK and WILLIAM HENRY MEIER, Madison, Wis. Filed June 26, 1919. Serial No. 306,946. 13 Claims. (Cl. 20—28.)



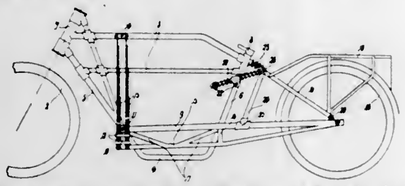
6. A grain door comprising upper inwardly swinging sections, spring means adapted to maintain said upper inwardly swinging sections in closed position, a lower outwardly swinging section and locking means adapted to maintain said outwardly swinging section in closed position.

1,340,507. LUMBER-LOADING ROLL FOR CARS. HUBBERD J. SNYDER, Tacoma, Wash. Filed Apr. 18, 1919. Serial No. 291,162. 2 Claims. (Cl. 193—56.)



1. A lumber handling device for cars comprising a post adapted to extend across the door opening, a foot adapted to engage the car floor, a head carried by the other end of the post and having a fixed arm and a pivoted lever arm and adapted to clamp a member of the car between them, a rack bar connected with the said pivoted lever, and a pinion engaging said rack bar to thereby operate said clamp device.

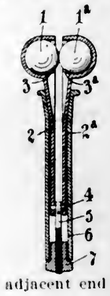
1,340,508. SPRING-FRAME FOR MOTOR-CYCLES. REGINALD ERIC WALKER, Tyseley, Birmingham, England. Filed Feb. 2, 1920. Serial No. 355,870. 10 Claims. (Cl. 208—94.)



1. In a motor cycle the combination of a main frame and a rear frame pivotally secured thereto, a pair of separate plate springs of different strengths secured to said rear frame adjacent the pivot, one end of each plate spring engaging with an abutment upon the main frame.

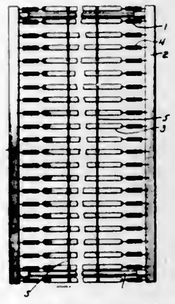
1,340,509. DEVICE FOR SHARPENING OR HONING ORDINARY OR SAFETY RAZORS, BLADES, OR OTHER LIGHT CUTTING-TOOLS. HENRY WATSON, Newport, Wales. Filed Mar. 2, 1920. Serial No. 362,788. 1 Claim. (Cl. 29—83.)

A device for sharpening the blades of razors, knives and other light cutting tools of the kind specified, comprising bodies acting as burnishers, supports having depressions for accommodating said bodies, elongated portions extending from said supports, a sleeve surrounding said elongated portions, coacting surfaces on the portions and on the sleeve for varying the pressure between the bodies as the result of varying the distance of the ends of said portions from the adjacent end of the sleeve, and adjusting means for varying the distance between the ends of



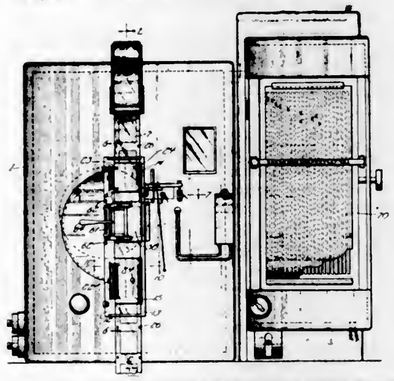
the portions and the adjacent end of the sleeve, substantially as described.

1,340,510. BED-SPRING. SAMUEL WEISSMAN and RALPH WEISMAN, Detroit, Mich. Filed Feb. 10, 1919. Serial No. 275,986. 1 Claim. (Cl. 5—39.)



In a mattress spring, the combination of a frame, longitudinal flat members connecting the ends of said frame and having the upper faces thereof devoid of protuberances and disposed in a common plane, said members having parallel slits therein with the material between said slits depressed to provide eyes at the lower faces of said members, and cables having the ends thereof connected to the outermost longitudinal members and extending through the eyes of said members so that said members may rest on said cables and relieve the slitted material of strains incident to a body on the spring.

1,340,511. PHOTOPRINTING-MACHINE. FREDERICK H. WHITE, Chicago, Ill. Filed May 26, 1919. Serial No. 299,955. 10 Claims. (Cl. 95—75.)



1. A photoprinting machine adapted to print apertured strips of photographic films from negatives having non-

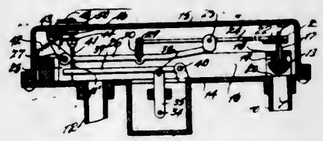
related views adjacent to each other, said machine having claw mechanism adapted to reciprocate in a straight line to engage and advance the film, said mechanism having claws with inclined edges adapted, on the return movement of the claws, to engage an edge of the apertures in the film whereby the claws are automatically cammed out of engagement for their return movement

1,340,512. TOY. MORTON WILD, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,447. 1 Claim. (Cl. 46—41.)



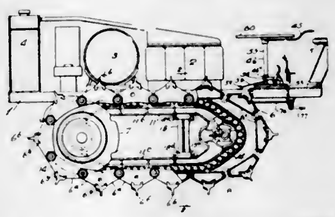
A toy or the like, comprising a flat member having a contour resembling the outline of a head, a plurality of variously shaped flat pieces of material adapted to be removably placed upon one of the flat faces of the head shaped member to represent the features thereon, any of said pieces being adapted to be interchangeably used to form the eyes, nose, or mouth of the countenance to obtain different expressions therefrom.

1,340,513. THERMOSTAT-CONTROLLER FOR HOT-WATER GAS-HEATERS. EMANUEL M. YOUNGMAN, Coney Island, N. Y. Filed Feb. 20, 1919. Serial No. 278,233. 8 Claims. (Cl. 236—48.)



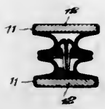
2. In a thermostatic control for hot water gas heaters in combination, a gas valve and magnet, an armature coacting with said magnet for controlling the quick opening and closing of said valve, an armature lifting member, an armature carrying arm pivoted on said lifting member, a spring connection between said armature-carrying arm and said lifting member, and a thermostat for actuating said armature-lifting member.

1,340,514. DIRIGIBLE TRACTOR. WILLIAM P. ALLEN, Chicago, Ill.; Mary F. Allen executrix of said William P. Allen, deceased. Filed Sept. 1, 1915. Serial No. 48,402. 45 Claims. (Cl. 180—9.1.)



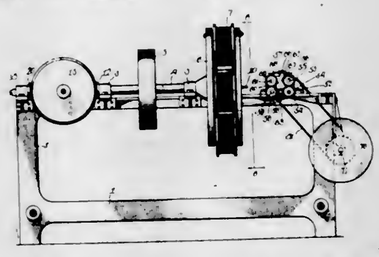
1. In a tractor comprising two traction units mounted to move in parallel paths, a motor, separate speed-varying transmission trains from said motor to said traction units, respectively, and each adjustable to transmit continuous rotary motion from the motor to its respective traction unit at any desired speed from zero to a maximum, and speed-controlling means for each of said trains arranged conveniently for simultaneous adjustment by a single operator.

1,340,515. MANUFACTURE OF BUTTONS. EDWARD L. ANDERSON, Attleboro, Mass., assignor to R & G Company, Attleboro, Mass. Filed June 7, 1919. Serial No. 302,481. 5 Claims. (Cl. 79—3.)



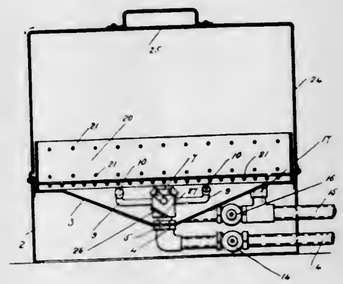
1. The manufacture of two-part buttons, consisting in forming each part from a sheet metal disk from which its central portion is drawn into cylindrical form with one end closed and constituting the top of the part, forming the top of one part with a projecting head and the top of the coacting part with a socket to receive the head, then contracting the sides of the cylindrical portion to provide a shank having a projecting top of double thickness at one end and a base at its opposite end, cupping the base to receive a front, and finally rolling the front into position within the flange of the cup.

1,340,516. WIRE-COILING MACHINE. FRITZ L. ANDREN, Chicago, Ill. Filed May 14, 1917. Serial No. 168,347. 15 Claims. (Cl. 153—65.)



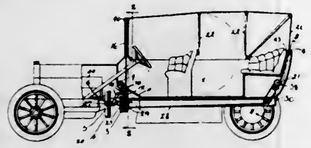
1. In a wire coiling machine having a coiling head and a mandrel adapted to relative rotation; a device carried by the said head consisting of a plurality of superimposed plates secured together and revoluble with the said head, said plates having a runway therebetween adapted to receive a plurality of converging wires and present them in substantial contact with each other to said mandrel.

1,340,517. DISH-WASHING MACHINE. WILLIAM CURTIS ASHLEY, Chicago, Ill. Filed Jan. 2, 1920. Serial No. 348,721. 2 Claims. (Cl. 141—9.)



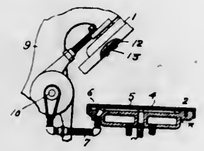
1. In a washing machine, a conical pan, a water supply pipe projecting vertically and centrally in the pan, an annular water chamber journaled on the upper part of the water supply pipe, inclined water jet pipes connected to the said water chamber and operating to revolve it, propeller blades which revolve with the water chamber and force the contents of the pan upwardly, and means for supporting the articles to be washed over the said pan.

1,340,518. VEHICLE-TOP. ALBERT A. AUGUSTUS, Cleveland, Ohio. Filed June 1, 1915. Serial No. 31,319. 6 Claims. (Cl. 296—117.)



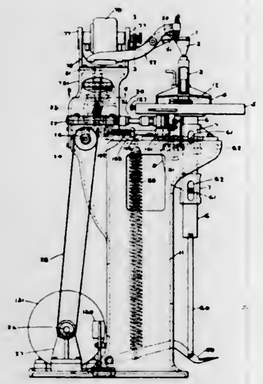
3. In a vehicle the combination of a motor, a top, top supports, a winding drum operable by said motor, means connecting said drum and said top whereby actuation of said drum is adapted to raise said top over said supports, a second drum operable by said motor, a roller carried by said vehicle and adapted to receive said top thereon, means operably connecting said second drum and said roller whereby actuation of said drum operates said roller to wind said top thereon.

1,340,519. PRESSING-MACHINE. SHAIN E. BAITARY, Baltimore, Md. Filed Jan. 6, 1920. Serial No. 349,769. 3 Claims. (Cl. 68—9.)



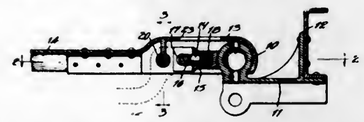
1. An upper buck for a pressing machine having a steam chamber formed therein and comprising a plate having openings therein communicating with the steam chamber, valves normally closing the openings and means adapted to be operated by the garment to be pressed for opening the valves.

1,340,520. INSOLE-ROUNDING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Aug. 8, 1916. Serial No. 113,723. 7 Claims. (Cl. 12—23.)



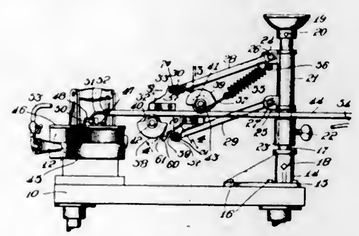
6. A machine of the class described, having, in combination, an operating tool, a work support, feeding means, means for correcting the relative position of the tool and the support during the feed including a leader for determining the relative path of travel of the tool, mechanism for shifting the tool to cause it to traverse a detour coterminous with said path, a driving mechanism for the shifting mechanism, a driving clutch therefor, a series of trips on the leader, latching devices for preventing the engagement of the clutch connected to be tripped by the leader, and means acting automatically to reset the latching devices and disengage the clutch, substantially as described.

1,340,521. VEHICLE-COUPLING. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill., a Corporation of Wisconsin. Filed Jan. 2, 1917. Serial No. 140,080. 9 Claims. (Cl. 213—67.)



9. A coupler comprising, in combination, an upstanding ball, a socket portion having top and side walls and open at its lower side to admit said ball and having a socket proper at its forward end to fit the ball, and a ball retainer pivoted between its ends on said socket portion, the forward end of the retainer being adapted to operatively engage the ball and the other end extending angularly downwardly out of alinement with the forward end and into position to be conveniently grasped by the operator, the upper side of the socket portion being constructed to permit of the upward movement of the forward end of the retainer to a point above the ball.

1,340,522. IRONING-MACHINE. CARL E. CAPMAN, Chicago, Ill., assignor to Joseph Saltzman, Chicago, Ill. Filed Oct. 21, 1917. Serial No. 198,748. 3 Claims. (Cl. 68—9.)



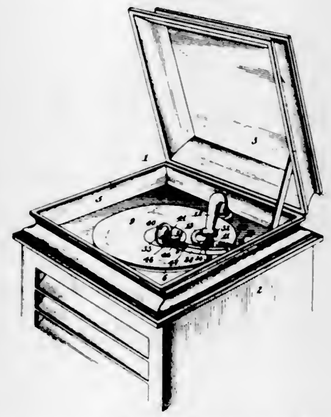
1. In a device of the class described, the combination of an upstanding column, a member rotatably mounted on said column, a head, parallel bars pivotally connecting the upper end of the head to the upper end of the member, and the lower end of the head to the lower end of the member, an iron supported by said head, and a spring for facilitating the vertical movement of said head.

1,340,523. CAR-MOVER. ELSWORTH E. CHAPMAN, Tacoma, Wash. Filed May 20, 1919. Serial No. 298,473. 3 Claims. (Cl. 254—37.)



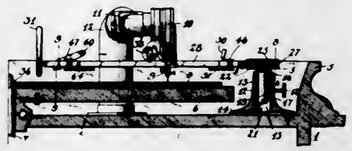
1. A car moving device comprising a lever, a fulcrum block upon which the lever is pivoted, and rail gripping blocks, said fulcrum block having inclined sides fitting between the rail gripping blocks, means for holding the rail gripping blocks against separation, and means acting to normally raise the fulcrum block from between the rail gripping blocks.

1,340,524. RECORD-REPEATING DEVICE FOR SOUND-REPRODUCING INSTRUMENTS. RASMUS P. CHRISTENSEN, Buffalo, N. Y., assignor of one-half to Clarence O. Johnson, Buffalo, N. Y. Filed Mar. 15, 1917. Serial No. 154,944. 8 Claims. (Cl. 274—15.)



1. A record repeating device comprising a guide member, eccentric means on said guide member for lifting the same, and controlling mechanism adapted to be actuated by a movable part of a sound reproducing machine to permit said eccentrim means to be brought into action.

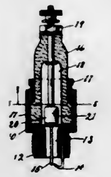
1,340,525. RECORD-REPEATING DEVICE FOR SOUND-REPRODUCING MACHINES. RASMUS P. CHRISTENSEN, Buffalo, N. Y., assignor of one-half to Clarence O. Johnson, Buffalo, N. Y. Filed Oct. 5, 1918. Serial No. 257,048. 11 Claims. (Cl. 274—15.)



1. A record repeating device, comprising a support, a guide member pivotally secured at one end to said support and normally retained in horizontal position, means at the other end of said guide member for lifting said member into inclined position including an eccentric having a shaft journaled longitudinally in said guide member, a pair of stops on sad guide member, one of said stops including a movable element adapted to engage the shaft of said eccentric and retain the same in normal position.

1,340,526. SPARK-PLUG. WALTER H. COTTON, Chicago, Ill. Filed Mar. 4, 1919. Serial No. 280,633. 6 Claims. (Cl. 123—169.)

1. In a spark plug, in combination, a cylindrical electrode-carrying member of insulating material having a chamber extending longitudinally within the same throughout a substantial part of its length and opening at one end of the said member, the other end of the member being closed and the chamber being as large in diameter at its mouth as in any part of the same, and an electrode fixed in the said carrying member and extending through its chamber to and outwardly beyond the mouth of same, a part of the electrode within the chamber but adjacent its mouth bearing an enlargement to provide a restricted annular passage of substantially less cross-sectional area



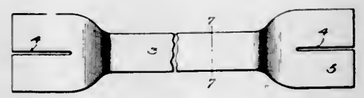
than that of the chamber inwardly beyond such enlargement, said passage adapted to allow gases to surge into and out of said chamber.

1,340,527. COMBINATION RECIPROCAL AND TURBINE INTERNAL-COMBUSTION ENGINE. FRANK E. COVEY, San Francisco, Calif., assignor of one-fourth to Howard L. Covey, Oakland, Calif. Filed June 4, 1919. Serial No. 301,823. 9 Claims. (Cl. 60—13.)



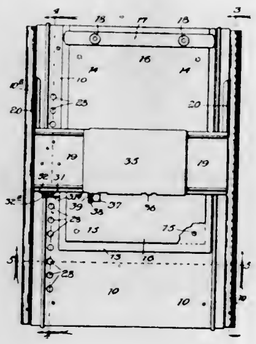
1. An internal combustion engine comprising a casing, a rotor journaled therein having a plurality of pockets formed in its outer face, an inverted cylinder secured to the exterior of the casing and radially arranged with relation thereto, a crank shaft upon which the rotor is secured, a piston reciprocally mounted in the cylinder, a connecting rod connection between the piston and the crank shaft, an inlet and an exhaust valve in the inner end of the cylinder adjacent the casing, and means for directing the exhaust gases against the pockets formed in the face of the rotor.

1,340,528. PROCESS OF PRODUCING YOKES FOR DRAFT-RIGGING. JOHN W. DALMAN, Chicago, Ill. Filed Nov. 18, 1918. Serial No. 263,054. 5 Claims. (Cl. 29—167.)



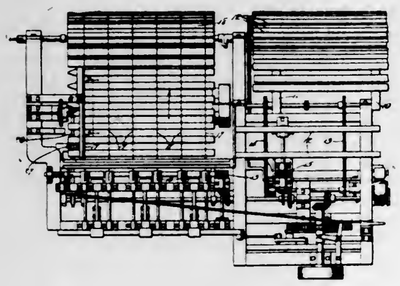
1. A process of constructing an integral hooded coupler yoke from forged metal, comprising providing a blank shorter than the finished yoke and of a thickness equal to that of the finished wings forming the hooded sections, reducing the blank in width and correspondingly increasing it in thickness between the ends, cutting the blank inwardly from each end upon the longitudinal center thereof to form hood sections, spreading said sections outwardly from the longitudinal center of the blank, bending said sections through substantially ninety degrees upon lines parallel to said axis, and forming key openings near the ends of said sections.

1,340,529. AUTOMATOGRAPH. CHARLES W. DAVISON, Chicago, Ill., assignor to William T. Stead Memorial Center, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1920. Serial No. 358,077. 4 Claims. (Cl. 35—8.)



1. In a device of the character set forth, a plate, means on said plate for attaching a tablet thereto, a carrier adapted to move longitudinally of said plate and over said tablet, a slide on said carrier adapted to move transversely of said plate, and means for moving the carrier rearwardly in predetermined distance at each actuation of the slide.

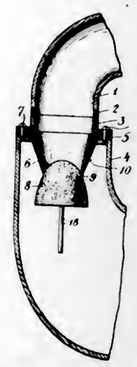
1,340,530. FENCE-MACHINE. JOSEPH M. DENNING, Denver, Colo. Filed Mar. 17, 1919. Serial No. 283,208. 12 Claims. (Cl. 140—26.)



1. In a machine of the class described, the combination with means for producing continuous fencing having longitudinal strand wires and cross slats and means for reeling the same as it is completed, of means forming the ends of the pickets, comprising cutting blades adapted to form the end portion of the picket, means for intermittently causing said blades to travel with a picket to be operated upon, and means for actuating the cutting blades during such travel, for the purpose specified.

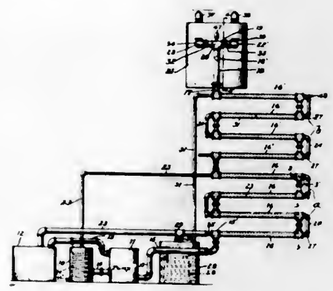
1,340,531. TALKING-MACHINE. FREDERICK JAMES EMPSON, Sydney, New South Wales, Australia. Filed Jan. 10, 1914. Serial No. 811,455. Renewed Oct. 10, 1919. Serial No. 329,891. 15 Claims. (Cl. 181—27.)

1. In a sound controlling device, the combination with a sound-conduit of means for controlling the passage of sound waves therethrough comprising a plug valve cooperating with a ported member whose port has a thin



rubber lip which thickens away from the port to a portion that is relatively non-transmitting to sound.

1,340,532. APPARATUS FOR THE DISTILLATION OF OIL. SAMUEL D. FAUST, Pittsburgh, Pa., assignor to International Gasolene Process Corporation, a Corporation of Delaware. Filed Mar. 10, 1919. Serial No. 281,722. 3 Claims. (Cl. 196—14.)



1. In an apparatus for distilling oil and other substances, the combination of a plurality of individual continuously-connected pipes forming a continuous coil of two sections for the passage of the product, a plurality of individual continuously-connected pipes within the pipes comprising the lower section for the passage of steam from a suitable source of supply to heat the product, and a plurality of individual continuously-connected pipes within the pipes comprising the upper section for the passage of steam from a superheater to superheat the product and its distillates.

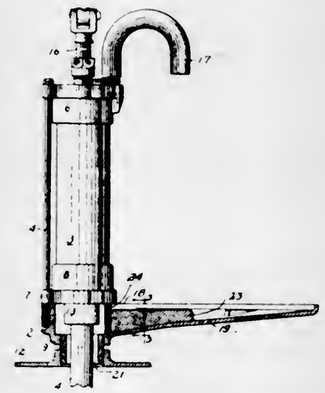
1,340,533. COMBINED SAFETY-PIN AND CLASP. CARL FISHER, Bridgeport, Conn. Filed Nov. 19, 1919. Serial No. 339,182. 2 Claims. (Cl. 24—159.)



2. A combined safety-pin and clasp made of a single strand of resilient wire having a straight back portion and bent upon itself at one end to form a hook which inclines outwardly with respect to the back portion and which is tapered to a piercing point, the opposite end being also bent upon itself in a larger curve than the hooked end and then proceeding in a parabolic part in plan with the hook, said parabolic part being longitudinally recessed

adjacent the piercing point to receive the same and to form a keeper for the hook and the same terminating in a firm spiral heap which slidably engages the straight back and projects into a plane therebeyond.

1,340,534. PUMP OVERFLOW-PAN. KNUD J. W. FREITAG and HOWARD D. AINSWORTH, San Francisco, Calif., assignors to F. A. B. Manufacturing Co., San Francisco, Calif., a Corporation of California. Filed Apr. 23, 1919. Serial No. 292,079. 2 Claims. (Cl. 221—72.)



1. In combination with a pump, an overflow pan comprising a hollow base upon which the pump is mounted, a shallow tray-like receptacle extending from one side of said base, said side being apertured to provide a passage from said tray-like receptacle into said base, the bottom of said tray-like receptacle being sloped toward said passage, ribs for supporting a measure disposed on said sloping bottom, and a screen disposed across said passage and held therein by one of said ribs.

1,340,535. PROCESS OF TREATING ASBESTOS. EDWARD H. GARCIN, New York, N. Y. Filed Dec. 5, 1919. Serial No. 342,787. 5 Claims. (Cl. 252.)

1. The process of treating asbestos for separating and strengthening the fibers thereof which comprises, subjecting the asbestos to moisture in the form of water and steam and causing the fibers to be disassociated by mechanical means.

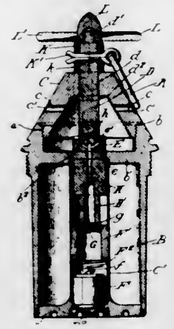
2. The process of treating asbestos for separating and strengthening the fibers thereof which comprises, subjecting the fibers to hot water and to an acid solution and disassociating the same by mechanical means.

3. The process of treating asbestos for separating and strengthening the fibers thereof which comprises, subjecting the asbestos to a bath of hot water, crushing, then subjecting the fibers to an acid bath, washing the fibers, and disassociating the same by mechanical means.

4. The process of treating asbestos for separating and strengthening the fibers thereof which comprises, crushing the asbestos between suitable rolls, subjecting the fibers to an acid solution, washing with steam and hot water, pressing the same, disassociating the fibers by means of a wet picker, and then drying.

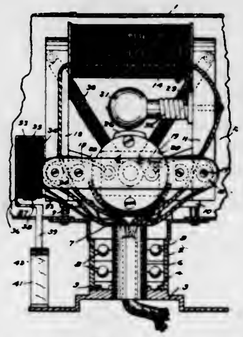
5. The process of treating asbestos for separating and strengthening the fibers thereof which comprises, subjecting the fibers to a bath of hot water for a sufficient time to soften the fibers, passing the same through crushing rolls, treating the same with an acid solution to strengthen the fibers and to neutralize any alkali therein, washing with steam and hot water, passing the fibers through squeeze rolls for expelling moisture, subjecting the fibers to the action of a wet picker for disassociating the same, and then drying.

1,340,536. DETONATOR FOR HIGH-EXPLOSIVE SHELLS. EMIL GATHMANN, Baltimore, Md. Filed May 11, 1917. Serial No. 167,956. Renewed July 21, 1919. Serial No. 312,467. 16 Claims. (Cl. 102—39.)



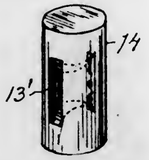
1. A detonator for high explosive shells comprising a priming charge chamber, a movable carrier supporting a detonating charge and a primer for firing the detonating charge, a longitudinally movable firing hammer adapted on impact to fire the primer and thereby the detonating charge, said carrier being held normally in a position wherein the detonating charge is at a point remote from the priming charge and the primer is out of the zone of operation of the firing hammer, and means operable by the resistance of the air to the flight of the shell for positively moving the carrier to advance the detonating charge to a point in proximity to the priming charge and to advance the primer into the zone of operation of the firing hammer.

1,340,537. AUTOMOBILE-SIGNAL. WILLIAM EDWARD F. GIBSON and IDA MAY JAMES, Port Coquitlam, British Columbia, Canada. Filed May 17, 1919. Serial No. 297,955. 1 Claim. (Cl. 177—327.)



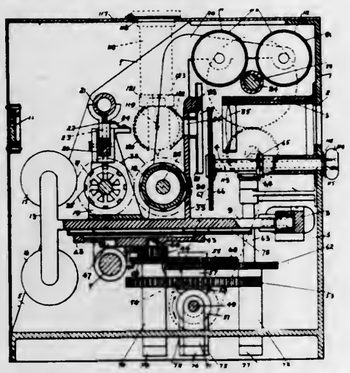
In a device of the class described, a casing provided on either side with an indicator, a pinion within said casing having its hub extended as a tubular shaft adapted to be secured to the vehicle body and forming a rigid vertical axis on which said casing is rotatably mounted, a magnet mounted within and secured to said casing, an armature within the casing rotatably mounted between the poles of the magnet and provided with a toothed sector meshing with said pinion, a normally deënergized magnet mounted on the first mentioned one, a hinged vertically movable armature disposed adjacent a pole of the last mentioned magnet and having its free end turned downwardly and extending through the casing, a member having a socket in which the free end of the vertically movable armature is normally engaged, and means for temporarily magnetizing the first mentioned armature and simultaneously energizing the last mentioned magnet.

1,340,538. CAR-COUPLING. GEORGE W. GILL, Battle Creek, Mich. Filed Feb. 8, 1919. Serial No. 275,886. 12 Claims. (Cl. 213—10.)



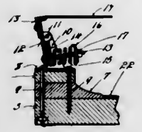
1. In a car coupler, the combination with the draw-head having a pivotally-suspended knuckle opposite the guard arm thereof and formed with a longitudinally-arranged intermediate mouth opening, of a latch pivoted below said mouth opening and extending thereinto, a locking slide operative within said mouth-opening adapted to engage and release said knuckle and engaging with said latch, a weight suspended from said latch to movably hold said locking slide in a forward position within said mouth, said draw-head having a side slot intersecting said mouth-opening thereof, and a lever pivotally movable in said slot for engaging said locking slide to release said knuckle.

1,340,539. MOTION-PICTURE CAMERA. JOSEPH A. GOLDEN, New York, N. Y. Filed Nov. 26, 1917. Serial No. 203,959. 7 Claims. (Cl. 88—16.)



1. A camera comprising a carrier plate for film with means tor giving to said carrier plate a to and fro motion, means mounted on said carrier plate for punching a give off roll of film, means for exposing the punched film on the carrier plate so as to produce a zigzag series of pictures, and means on said carrier plate for making a take up roll out of said film.

1,340,540. BED-BOTTOM STRUCTURE. GEORGE S. GREENLEAF, Chicago, Ill. Filed June 14, 1919. Serial No. 304,159. 2 Claims. (Cl. 5—40.)



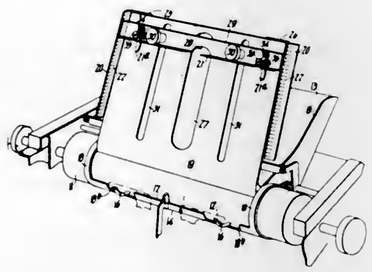
2. A bed bottom structure including a main frame, bracket plates secured on the ends of the frame, a pair of bracket arms extending upwardly from each bracket plate, a web extending between and bracing said pair of bracket arms, a lever intermediately pivoted to the upper ends of the bracket arms, a bolt extending from the lever plate and slidably passed through said web, a spring on the bolt seating against the web, an end rail secured to the upper ends of the levers at each end of the main frame, and a bed bottom fabric extending between and secured to said rails.

1,340,541. THREAD-GUIDING DEVICE. AUGIE L. HANSEN, Evanston, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1919. Serial No. 289,034. 2 Claims. (Cl. 66—17.)



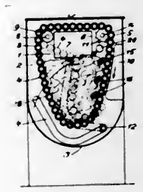
1. A thread guiding device in the form of a band for the finger, having thread receiving and friction tongues and having transversely extending ridges at intervals affording clearance space to prevent restriction of blood circulation.

1,340,542. TYPEWRITING-MACHINE. CHARLES M. HILSEE, Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 3, 1917. Serial No. 205,022. 13 Claims. (Cl. 197—140.)



1. In a typewriting machine, in combination, a platen, a leading-edge gage adjustable to and from the delivery side of the platen, means to guide a work-sheet around said platen, whereby said work-sheet may be introduced into the machine and advanced into engagement with said leading-edge gage by substantially a single thrust movement, and means to grip the leading edge of a work-sheet, rendered effective by bringing said leading-edge into engagement with said leading-edge gage, to assist in maintaining the work-sheet in position during the typing of a single line.

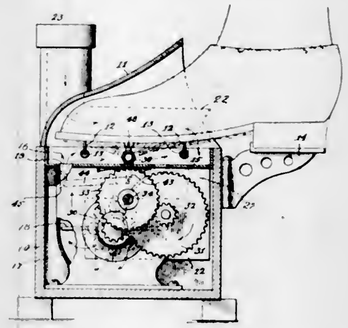
1,340,543. WASHING-MACHINE. ALFRED HOFMANN, Zurich, Switzerland. Filed Aug. 9, 1918. Serial No. 249,042. 12 Claims. (Cl. 68—37.)



1. A machine for washing laundry goods, comprising a trough, an endless pervious band mounted in said trough and adapted to carry the laundry goods and to form together with parts of the trough a container for the said goods, means for raising, pressing together and releasing from pressure the part of the said band which carries the goods in such a manner as to move over each other, press and release from pressure the said goods, means for moving forward step by step the said band, so as to turn the said goods, and means for returning to the upper part of the said trough the liquor which flows through the said band.

8. A machine for washing laundry goods, comprising a plurality of troughs mounted one above the other at an inclination which alternates in direction from trough to trough, an endless pervious band mounted in each trough, levers mounted in each trough and adapted to lift the said band, a power driven shaft and separate driving mechanisms adapted to transmit the movement of the said shaft to the said levers in each trough.

1,340,544. APPARATUS FOR TREATING FOOTWEAR. NEVIL MONROE HOPKINS, Washington, D. C. Filed Aug. 29, 1919. Serial No. 320,645. 20 Claims. (Cl. 91—55.)



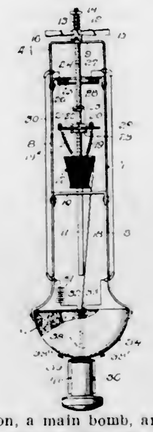
1. In an apparatus for treating wet footwear while on the foot of the wearer, the combination of a support for the foot, means associated with said foot-support for drying foot wear while on said support, and means associated with said foot-support for waterproofing foot-wear while on said support.

1,340,545. PUMP. JOHN L. JOHNSON, Humble, Tex. Filed Mar. 22, 1920. Serial No. 367,814. 4 Claims. (Cl. 108—80.)



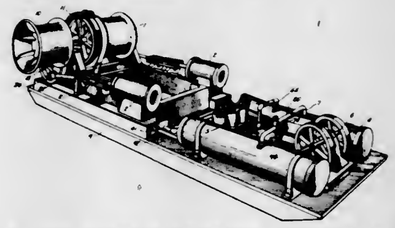
2. An attachment for pumps including a perforated pipe section adapted to be attached to the lower end of a pump barrel, a nozzle pipe arranged concentrically within and spaced from said pipe section, and means through which fluid may be forced under pressure through said nozzle pipe and projected against the standing valve of the pump.

1,340,546. BOMB. CHARLES R. KEERAN, Chicago, Ill. Filed Mar. 21, 1917. Serial No. 156,409. 5 Claims. (Cl. 102—29.)



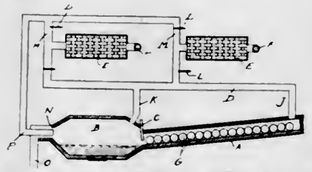
1. In combination, a main bomb, an auxiliary bomb, an electric circuit connecting the two said bombs, means brought into action during the flight of the main bomb to separate the auxiliary bomb a predetermined distance from the main bomb, and means contained in the auxiliary bomb to explode both bombs upon the contact of the auxiliary bomb with the earth, substantially as described.

1,340,547. HYDRAULIC DONKEY-ENGINE. FRANK E. KENNEY, Portland, Oreg. Filed Mar. 11, 1919. Serial No. 281,906. 2 Claims. (Cl. 60—51.)



1. A drum operating mechanism comprising a fluid pressure actuated engine for turning the drum, a fluid storage tank for supplying said engine, a fluid tank receiving the discharge from said engine, a pump drawing its fluid from the latter tank and discharging it into the former tank, compensating means within said storage chamber for maintaining fluid pressure therein when such fluid is drawn into the engine cylinders in excess of the delivery capacity thereto, and a connection between said tanks containing a relief valve opened by excess pressure in the pressure tank.

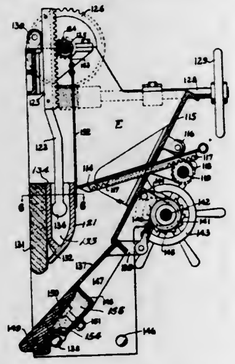
1,340,548. PROCESS FOR THE MANUFACTURE OF IRON AND STEEL. HERBERT LANG, Oakland, Calif. Filed July 7, 1919. Serial No. 309,225. 7 Claims. (Cl. 75—14.)



3. The process of manufacturing iron and steel which consists of placing finely ground iron ore and a reducing agent in closed iron containers, gradually heating said

containers and their charges to a reducing temperature, and then transferring them to a melting furnace without bringing them into contact with an oxidizing agent.

1,340,549. FURNACE. WILLIAM LLOYD, Hazleton, Pa., assignor to Coxe Travelling Grate Company, Port Carbon, Pa., a Corporation of Pennsylvania. Original application filed May 4, 1916, Serial No. 95,450. Divided and this application filed Jan. 16, 1918. Serial No. 212,131. 8 Claims. (Cl. 110—108.)



1. In a mechanical stoker, a feed hopper, a regulating gate beneath which said hopper delivers to the grate and a readily removable hopper wall independent of the regulating gate and pressing said gate against the ends of the side walls of the furnace.

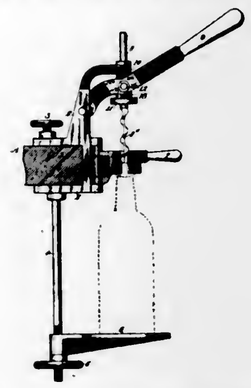
1,340,550. BATTERY HAND-LAMP. THOMAS J. MADIGAN, Brooklyn, N. Y., assignor of one-fourth to James O. Schwank, New York, N. Y. Filed Aug. 27, 1919. Serial No. 320,160. 4 Claims. (Cl. 240—8.5.)



3. In a battery hand lamp, the combination of a tubular conducting casing, an insulating plug closing the bottom of said casing, a conductor extending through and fixed within said plug and adapted to engage the bottom of the battery, and a bottom cap threaded to said casing and movable into and out of contact with said conductor to control the flow of current from said battery.

1,340,551. CORK-EXTRACTOR. CHRESTEN TORBEN MADSEN, Oakland, Calif. Filed May 1, 1918. Serial No. 231,799. 4 Claims. (Cl. 65—49.)

1. A cork puller including a fixed bracket and a bottle support adjustable to the bracket, a fixed clamp adapted to clasp the bottle neck, a lever fulcrumed to the first named bracket and channeled vertically in line with the bottle, a guide in said channel, a corkscrew stem slidable



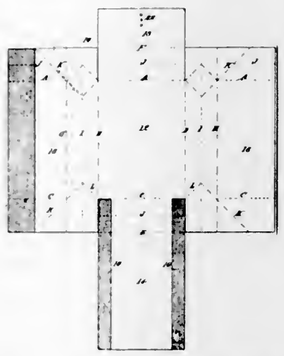
through said guide, a horizontally revoluble ratchet on the screw stem, and a pawl upon the lever to engage the ratchet.

1,340,552. COMMUNICATION-CONTROLLING DEVICE. IRVING S. MERRELL, Syracuse, N. Y. Filed May 17, 1919. Serial No. 297,935. 7 Claims. (Cl. 200—86.)



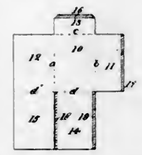
1. In a communication controlling device, a platform, a spring, an electric terminal carried by the platform and insulated therefrom, a second electric terminal carried by the spring and insulated therefrom, said terminals brought into circuit closing relation by relative movement of said platform and spring.

1,340,553. SAFETY-CONTAINER. EUGENE F. NISSEN, Alameda, Calif. Filed Dec. 12, 1918. Serial No. 266,370. 1 Claim. (Cl. 229—68.)



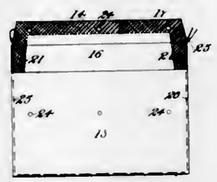
A safety envelop formed of a single blank of material including a central rectangular body panel, a rectangular back panel emanating from one end of the body panel, a flap panel emanating from the other end of the body panel, rectangular shaped side panels emanating from the sides of the body panel, portions of equal width on said emanating panels contiguous the four sides of the body panel being scored each in three parallel lines to form sides of the envelop with gussets, the extreme outer upper and lower corner portions of the side panels being scored so that they are adapted to be folded and lie, the upper beneath the top gusset to reinforce the same, and the lower between the back panel and the adjacent folded portions of the side panels when the envelop is formed, the outer edge portion of one side panel being gummed, and the opposite side edges of the emanating back panel being likewise treated.

1,340,554. ENVELOP. EUGENE F. NISSEN, Alameda, Calif. Filed Mar. 13, 1919. Serial No. 282,278. 1 Claim. (Cl. 229—80)



An envelop composed of a front panel, opposite side flaps borne thereby, a sealing flap and a back panel borne by the opposite ends of the front panel, and a secondary body panel connected to and extending outwardly from an end of one of the side flaps, the secondary body panel being folded upwardly and superimposed upon said side flap to which it is connected, the back of said secondary side panel having gummed parts which are secured to the front panel and the other side flap being gummed onto the side flap carrying said secondary side panel, the back panel being superimposed and gummed to the said other side flap and to the secondary side panel and the sealing flap being gummed onto the back panel.

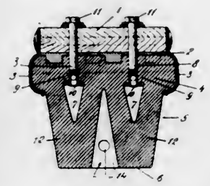
1,340,555. SAFETY-CONTAINER. EUGENE F. NISSEN, Alameda, Calif. Filed May 19, 1919. Serial No. 298,001. 1 Claim. (Cl. 229—76.)



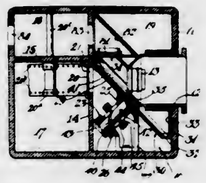
An envelop composed of a front panel, opposite side flaps borne thereby, a back panel connected to the bottom of the front panel, a sealing flap connected to the top of the front panel, a safety flap connected to the bottom of one of the side flaps, and a secondary sealing flap connected to the bottom of the safety flap, the safety flap being folded onto said side flap and the secondary sealing flap being gummed onto the main sealing flap, the back panel being superimposed upon the safety and other side flap, and both sealing flaps being gummed onto the back panel, and stitching extending around the bottom and sides of the back panel and through the latter and through the secondary sealing flap and the two side flaps, the ends of the thread extending out from the secondary sealing flap and being folded to lie between the latter and the back panel.

1,340,556. TIRE. MAX CYRUS OVERMAN, New York, N. Y. Filed Sept. 25, 1919. Serial No. 326,205. 2 Claims. (Cl. 152—1.)

1. A tire whose cross-section with the tread downward comprises a wheel-engaging upper portion; and a lower portion whose bottom is the tread of the tire having a substantially flat contact with the road, said lower portion being divided into lateral parts by a cleft extending up through it from the tread, said cleft extending circumferentially around the tire interrupted at intervals by perforated cross-webs uniting said lateral parts flush with the tread of the tire.

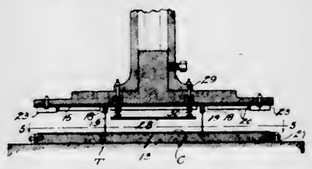


1,340,557. SHUTTER MECHANISM FOR MOTION-PICTURE CAMERAS. EDWARD J. PENNYPACKER, Los Angeles, Calif., assignor to Motion Picture Apparatus Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 19, 1917. Serial No. 149,702. 1 Claim. (Cl. 88—16.)



In a motion picture camera; walls forming a shutter chamber having a film exposure opening formed in one wall and an observation window formed in another wall, said walls forming a dihedral angle of approximately 90 degrees; a lens system arranged to focus through said film opening; a primary shutter continuously rotatable in a plane at an angle of 45° with the axis of said lens system between the latter and said film exposure opening, comprising two parallel circular disks, provided with coincident semicircular openings therein, a semicircular reflecting surface secured to one of said disks and adapted while rotating to reflect light from said lens system through said window, light when not so reflected being adapted to pass through said semicircular openings in the primary shutter to said film exposure opening, a segmental disk mounted between said circular disks and movable relative thereto for varying the size of the opening while the shutter is rotating a frusto-conical secondary shutter, secured to and rotatable with the circular disks of said primary shutter, for closing said window while light is being admitted through the primary shutter to said film exposure opening and means for continuously and synchronously rotating said shutters and the reflecting surface to alternately expose the window and said opening at regular intervals.

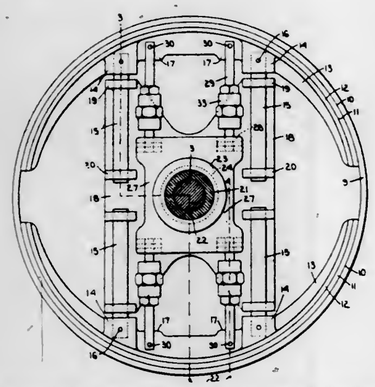
1,340,558. MACHINE FOR CUTTING AND PREPARING DRESS-SUIT-CASE BODY-BLANKS. HENRY L. PLUMMER, Petersburg, Va., assignor to Independent Trunk and Bag Company, Petersburg, Va., a Corporation of Virginia. Filed Sept. 9, 1919. Serial No. 322,764. 11 Claims. (Cl. 93—38.)



1. In an apparatus for preparing blanks for boxes, the combination of a supporting table, male and female die

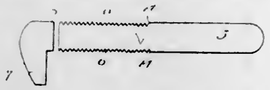
mechanism including guide means to facilitate the location of the blank, punching devices to punch the inserted card, corrugating devices to corrugate the blank, and creasing devices to crease the blank, all in given organization and operating substantially simultaneously at one operation of the mechanism.

1,340,559. FRICTION-CLUTCH PULLEY. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 8, 1919. Serial No. 288,457. 3 Claims. (Cl. 192—11.)



1. A friction clutch pulley comprising a pulley having a cylindrical rim, diametrically oppositely disposed clutch shoes, having central strengthening ribs presenting rounded faces, a clutch shoe supporting member having pairs of bearings spaced apart, guide rods rigidly secured to each clutch shoe extending through a pair of said bearings, an expander movable toward and from said clutch supporting member, comprising a sleeve, thrust members pivotally connected thereto and provided with bifurcated outer ends presenting concaved sockets to engage the rounded faces of said central ribs, and means connecting said bifurcated ends to said ribs whereby the movement of said expander will cause positive movement of the clutch shoes in both directions.

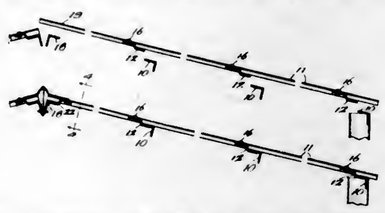
1,340,560. METHOD OF MAKING WRENCHES. HENRY T. ROBERTS, New York, N. Y. Filed May 21, 1919. Serial No. 298,612. 3 Claims. (Cl. 76—114.)



1. The method of manufacturing wrenches of the flat-sided type, which consists in forming the shank of the wrench of a relatively thin flat bar with threads at its opposite edges throughout a portion only of said bar, applying a sliding jaw to encircling position on said bar and screwing upon said threads a nut which engages said jaw for operating it, and thereupon welding to the end of said bar opposite to that forming the handle of the wrench, a relatively thin flat piece of metal forming a stationary jaw for coöperation with said sliding jaw.

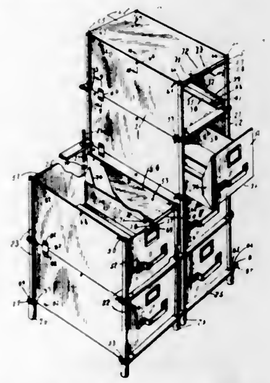
1,340,561. SECTIONAL BUILDING. ROBERT C. ROWAN, Wheaton, Ill., assignor to Steel Fabricating Company, Chicago Heights, Ill., a Corporation of Illinois. Filed Oct. 9, 1918. Serial No. 257,436. 4 Claims. (Cl. 189—2.)

1. A knock-down building having external sheets, supports for said sheets having upward and downward facing flanges, and clips on the inside of said sheets, some of the clips facing downward to attach the sheets to the supports and also carry the weight of the sheets, and each sheet also having a detachable, upward facing clip adapted to



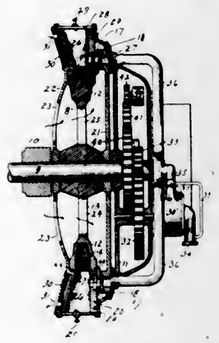
engage a downward facing flange for securing that portion of the sheet to the support and also locking the other clips of the sheet in engagement with their respective flanges.

1,340,562. METAL FILING-CASE. FRANK A. SANDMANN, Rahway, N. J. Filed July 2, 1919. Serial No. 308,149. 15 Claims. (Cl. 45—2.)



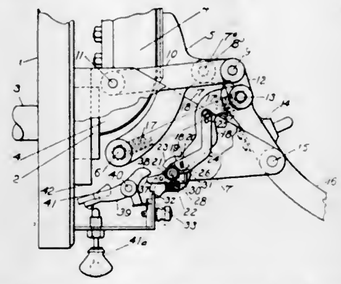
1. A metal filing case unit comprising sheet-metal side walls provided with upright end socket bends, a cross-bar, and posts having connection with said cross-bar and received in the bores of said upright end socket bends.

1,340,563. TURBINE GAS-ENGINE. GOTTLOB F. SCHMID and KARL O. SCHMID, Indianapolis, Ind. Filed Oct. 30, 1919. Serial No. 334,590. 9 Claims. (Cl. 60—41.)



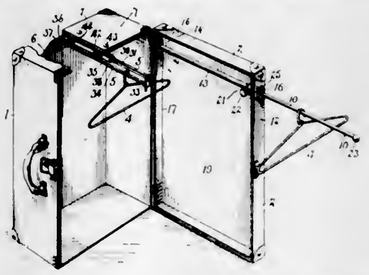
1. In an internal combustion engine, a rotatable member having a plurality of expension chambers, relatively stationary explosion chambers, means comprising a flange on the rotatable member with ports to supply a hydrocarbon mixture to the explosion chambers, means to explode the mixture, means for discharging the expanding product into the expansion chambers, and means for discharging the spent product.

1,340,564. SHOCKPROOF CIRCUIT-BREAKER STRUCTURE. WILLIAM M. SCOTT, Tredyffrin township, Chester county, Pa. Filed May 8, 1918. Serial No. 233,201. 43 Claims. (Cl. 200—109.)



1. The combination with the movable contact member of a switch, of means for locking said contact member, said locking means having a bias toward full locking position, and means limiting the movement of said locking means upon the occurrence of shock to position in which said locking means retain said bias, whereby said locking means returns to full locking position.

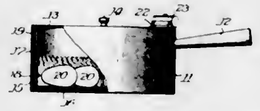
1,340,565. GARMENT-HANGER SUPPORT. CHARLES LOUIS SEIDENBURG, Philadelphia, Pa., assignor to William Curry, Philadelphia, Pa. Filed Aug. 20, 1919. Serial No. 318,792. 2 Claims. (Cl. 211—16.)



1. In a receptacle for carrying garments, a telescoping support comprising a tube fixedly mounted at both ends to the side walls of the receptacle and a rod slidable in the said tube through one side wall of the receptacle.

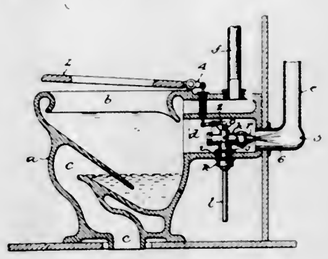
2. In a receptacle for carrying garments, a telescoping support comprising a tube fixedly mounted at both ends to the side walls of the receptacle, a rod slidable in the said tube through one side wall of the receptacle, and means for retaining said rod in adjusted position.

1,340,566. CULINARY DEVICE. RUDOLF SEIDL, Minneapolis, Minn. Filed Apr. 24, 1916. Serial No. 93,134. 2 Claims. (Cl. 53—1.)



1. A culinary device comprising, in combination, a liquid container, a cover telescopically arranged with reference to the container, and a tray within the cover, the cover being adapted to be lifted from the container and the tray being adjustably connected with the cover so as to be suspended there-below when the cover is lifted or inclosed thereby when the cover is seated upon a support.

1,340,567. WATER-CLOSET. CHARLES E. SHADALL, Milwaukee, Wis., assignor to Shadall Manufacturing Company, Wauwatosa, Wis., a Corporation of Wisconsin. Filed Sept. 18, 1916. Serial No. 120,634. 5 Claims. (Cl. 4—21.)

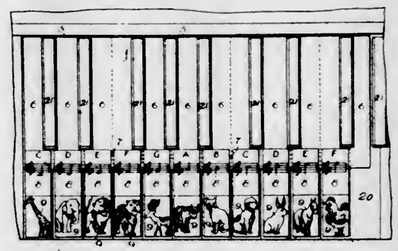


1. A water closet bowl provided on one side with an extension forming an aspirator chamber and housing having a foul air inlet and drain opening at one end into the upper part of the bowl and an outlet opening at the other end adapted for the connection therewith of a ventilating pipe, the wall of said housing being formed integrally with the bowl and completely surrounding said chamber between the openings at its ends.

1,340,568. SHUTTLE. JOHN C. SHAMBOW, Woonsocket, R. I., assignor to Shambow Shuttle Company, Woonsocket, R. I., a Copartnership. Filed Nov. 15, 1918. Serial No. 262,740. 6 Claims. (Cl. 139—46.)

5. In a shuttle, a tubular thread receiving member having an opening in one side and having its opposite side formed with a cutaway part providing a wall extending transversely of the member to engage and support the thread above the bottom of the opening, said member having a slot leading into the bottom of the opening and into the cutaway part.

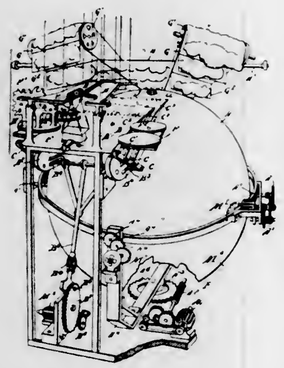
1,340,569. NOTE-INDICATOR FOR PIANOS. SAMUEL SIEGEL, New York, N. Y., assignor to Anna Siegel, New York, N. Y. Filed Mar. 28, 1917. Serial No. 158,067. 4 Claims. (Cl. 84—150.)



1. A musical note indicator for pianos comprising an elongated strip adapted to be placed transversely on the white keys immediately in front of the black keys of the

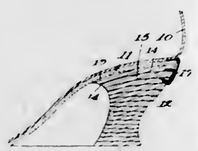
key-board thereof and having portions extending between said black keys, and a series of depressible tongues one for each white key secured to said panel and each extending lengthwise over its white key.

1,340,570. SCENIC AMUSEMENT APPARATUS. JACK SMITH, New York, N. Y. Filed Nov. 11, 1918. Serial No. 261,998. 23 Claims. (Cl. 46—27.)



1. A horizontally disposed surface carrying thereon a scene to be viewed, an observer's station suspended above said surface, means for moving said surface, and means for moving said station transversely above said surface.

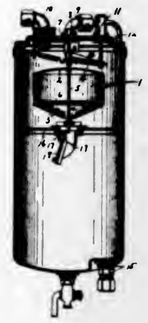
1,340,571. HEEL. ADOLPH H. SOMMERS, Allentown, Pa. Filed Jan. 2, 1920. Serial No. 348,910. 5 Claims. (Cl. 36—34.)



1. In a device of the character described, the combination with a shoe including a sole and a heel attached thereto having a countersink in its rear face adjacent the point of attachment to the sole, of fastening means consisting of a body portion adapted to be seated in the countersink of said heel, a downwardly extending prong at the upper end of said body portion adapted to engage the sole, an upwardly extending prong at the lower end of said body portion adapted to engage the heel and an intermediate prong adapted to engage the heel.

1,340,572. FLOAT. WILLIAM SPARKS, Jackson, Mich. Filed Jan. 9, 1919. Serial No. 270,367. 1 Claim. (Cl. 137—104.)

A float comprising a vertically disposed substantially cylindrical portion, an upwardly arched top wall secured to the upper edge of the cylindrical portion, a downwardly tapered conical lower wall connected to the lower edge of the said cylindrical portion, said lower wall having its central portion formed with an opening, a diagonally disposed cross wall connected to the said cylindrical portion adjacent to the lower edge thereof, and a valve stem extending through the said opening in the lower wall and



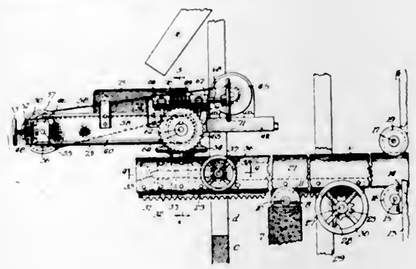
through the upper wall and the said cross wall and rigidly secured to the said upper wall and the said cross wall.

1,340,573. METHOD OF NAVIGATING AIRCRAFT. JOSEPH A. STEINMETZ, Philadelphia, Pa. Filed Nov. 1, 1918. Serial No. 260,647. 3 Claims. (Cl. 33—46.)



1. The method of navigating aircraft comprising, the projecting of a marking signal, at a predetermined angle to the horizontal and at a predetermined velocity, from the aircraft to the surface of the ground or sea in advance of the aircraft, and by timing the interval between the instant the marking signal leaves the aircraft and the instant the aircraft arrives at a point directly over the location of the signal upon the surface of the ground or sea, whereby the speed of the aircraft may be ascertained.

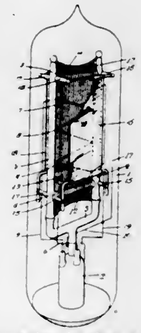
1,340,574. CAR-LOADING DEVICE. WILLIAM G. STEVENSON, Chicago, Ill. Filed Oct. 5, 1918. Serial No. 256,943. 2 Claims. (Cl. 193—19.)



1. In a loading mechanism of the class described, the combination of a support and a conveyer structure, said conveyer structure comprising a base, journal extensions on said base, a conveyer frame interposed at its inner end between said journal extensions and having a hub extending into one of said journal extensions, a shaft extending through said hub and said other journal extension, a gear wheel secured to the outer end of said hub, driving mechanism for said gear wheel mounted on said base, operation of said drive mechanism causing rotation of said gear wheel and vertical swing of said frame, a belt pulley

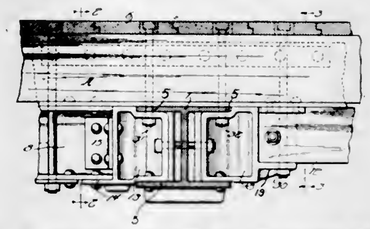
journaled on said shaft, another belt pulley at the outer end of said frame, a belt receiving said pulleys, means for driving said belt, and means for charging material onto said belt.

1,340,575. ELECTROIONIC VALVE. ERWIN R. STOEKLE, New York, N. Y., assignor to the Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 4, 1917. Serial No. 189,586. 30 Claims. (Cl. 250—27.)



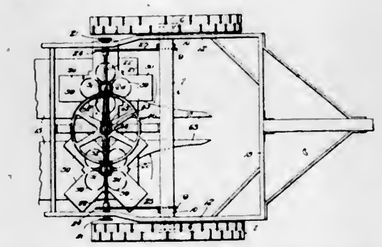
1. An electroionic valve having a heated cathode, and a grid structure comprising a pair of transversely disposed coil springs and a plurality of strands of wire wound over said springs so as to inclose said cathode.

1,340,576. CAR-UNDERFRAME. ROBERT C. TAFT, Moline, Ill. Filed June 19, 1919. Serial No. 305,398. 12 Claims. (Cl. 105—420.)



1. In an underframe for cars the combination with the body-bolsters and draft members the rear ends of which do not come in contact with said bolsters, of blocks interposed between said draft-members and said bolsters, said body-bolster, blocks and draft-members being permanently attached to each other so that the strain upon the draft-members will be continuous from end to end of the car.

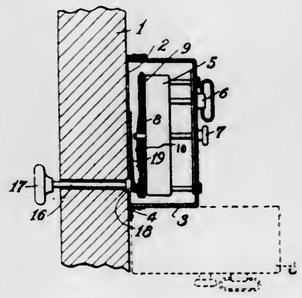
1,340,577. MACHINE FOR PICKING COTTON. WILMER THREADGILL, Laredo, Tex. Filed Mar. 6, 1919. Serial No. 281,012. 11 Claims. (Cl. 56—44.)



1. In a cotton picker and the like, rotatable means provided with rotary picking means and guarding means for said picking means, said picking means moving in a path or plane intermediate of and outwardly and inwardly of the position of said guarding means, said guarding means including a plurality of undulatory septum forming members secured to upper and lower members and arranged to conform to a segment of each picker with the teeth of the pickers projecting between said guarding members, alternating undulations partitioning off said pickers from each other, and coöperating means for imparting the aforesaid movement to said elements.

5. In a cotton-harvester and the like, a rotatable cage-like member including spaced rods, picking means comprising teeth having a movement intermediate of said rod-members, in a circular path, rotary brushes carried by said cage-member, hoods applied to said cage members, with respect to said rods, and conforming circumferentially to said brushes, and extending in successive arcuate outline, means for rotating said cage-like members and means for actuating said picking means.

1,340,578. WATCHMAN'S TIME-RECORDER. WALTER J. TIDD, Springfield, Mass., assignor to Tidd Recording Clock Company, Springfield, Mass, a Corporation of Massachusetts. Filed Mar. 21, 1917, Serial No. 156,417. Renewed Oct. 13, 1919. Serial No. 330,521. 4 Claims. (Cl. 234—40.)



1. In a watchman's time recorder, the combination with the inside portion of a door, of a rod slidably mounted therein, and formed with a head on the inner end thereof to retain the same in place and for engaging a spring mounted perforating pin, a clock movement, a recording disk removably secured thereto, a casing for the movement, said casing being pivotally secured to the inside of the door, a spring mounted perforating pin that is secured to the inside of the door and normally held away from the recording disk, said disk being operated by the hour post of the clock and located adjacent to and slightly spaced away from the inner side of the door, and a spring clip having a slot and pin connection with the hour post for holding the graduated disk in place, means comprising a plate secured to the inner side of the door for detachably removing the clock mechanism as a whole and to which the spring mounted perforating pin is secured.

1,340,579. DEVICE FOR AIMING FIREARMS. SINCLAIR TOUSEY, New York, N. Y. Filed May 22, 1917. Serial No. 170,156. 4 Claims. (Cl. 88—41.)



1. In apparatus for aiming a fire-arm, a shield for the sighting eye of the observer, said shield having a plurality of apertures of sufficient size to permit the formation of a clear image of the target and small enough to prevent substantial blurring of the sights of the fire-arm, said

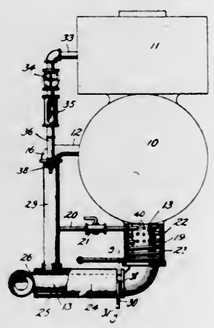
apertures being positioned respectively in the usual line of vision in aiming a rifle, a cannon and a revolver.

2. In apparatus for aiming a fire-arm, a fixedly mounted shield for the sighting eye of the observer, said shield having apertures therein of sufficient size to permit the formation of a clear image of the target and small enough to prevent substantial blurring of the sights of the fire-arm, said apertures being in the region of the shield through which the line of vision passes according to whether the observer is aiming a rifle, machine gun or revolver and spaced from any other aperture a distance greater than the diameter of the pupil of the observer's eye.

3. In apparatus for aiming a fire-arm, a shield for the sighting eye of the observer, said shield having apertures therein of sufficient size to permit the formation of a clear image of the target and small enough to prevent substantial blurring of the sights of the fire-arm, said apertures being in the region of the shield through which the line of vision passes according to whether the observer is aiming a rifle, machine gun or revolver and spaced from any other aperture a distance greater than the diameter of the pupil of the observer's eye, and means for excluding from the eye substantially all light except that entering through said shield.

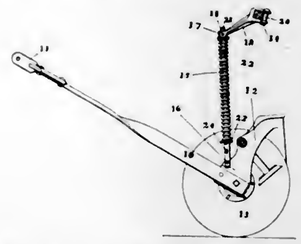
4. In apparatus for aiming a fire-arm, a shield for the sighting eye of the observer, said shield having apertures therein of sufficient size to permit the formation of a clear image of the target and small enough to prevent substantial blurring of the sights of the fire-arm, said apertures being in the region of the shield through which the line of vision passes according to whether the observer is aiming a rifle, machine gun or revolver and spaced from any other aperture a distance greater than the diameter of the pupil of the observer's eye, means for excluding from the sighting eye substantially all light except that entering through said shield, and means for reducing the light reaching the other eye, substantially as set forth.

1,340,580. EXPLOSION-ENGINE. JOSEPH P. TREGO, Jr., Newton, Kans.; Joseph P. Trego, administrator of Joseph P. Trego, Jr., deceased, assignor to Jennie C. Trego, Newton, Kans. Filed Oct. 4, 1916. Serial No. 123,769. 1 Claim. (Cl. 123—122.)



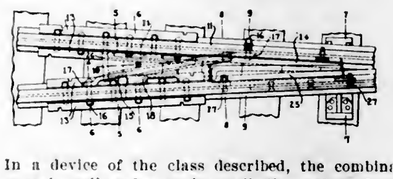
In an explosive engine, the combination with a cylinder having inlet and outlet pipes, a jacket inclosing the latter, a mixer connected to the inlet to the cylinder, a plurality of fuel pipes leading to said mixer, one of them having a coil disposed within said jacket, said coil fitting closely about said outlet pipe, said outlet pipe having openings therein in alinement with the convolutions of said coil, whereby said coil will hold the gases from escaping into the jacket, although allowing the heat thereof to be directly imparted to the coil, for the purposes specified.

1,340,581. SPRING-PRESSURE-REGULATING DEVICE. WILLARD A. VAN BRUNT, Los Angeles, Calif., assignor to The Van Brunt Manufacturing Company, Horicon, Wis., a Corporation of Wisconsin. Filed July 10, 1919. Serial No. 309,940. 10 Claims. (Cl. 267—1.)



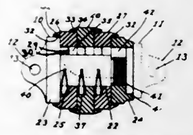
1. A device of the class described, comprising in combination a rod having a plurality of alined openings therethrough, a coiled spring on the rod, an abutment for one end of the spring movable longitudinally of the rod, and a dog movably connected with said abutment and normally projecting into one of said openings to support said abutment.

1,340,582. FROG FOOT-GUARD. GEORGE WASHINGTON VAUGHAN, Mount Vernon, N. Y. Filed Oct. 1, 1919. Serial No. 327,634. 12 Claims. (Cl. 246—454.)



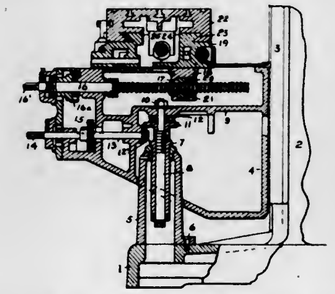
1. In a device of the class described, the combination with a main rail and a spring rail disposed to form an angle therebetween, of a tie bar disposed in the space between said rails extending at an angle thereto less than a right angle and connecting the rails to form an anti-creeper.

1,340,583. PERMUTATION-LOCK. ALBERT LAWRENCE VEARA, Bridgeport, Conn. Filed Nov. 24, 1919. Serial No. 340,302. 3 Claims. (Cl. 70—19.)



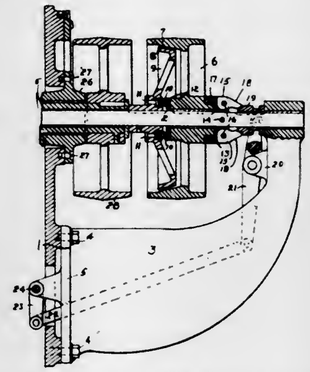
1. A permutation lock comprising a lock member and a bolt member, the said lock member comprising a shaft provided with a pair of heads in spaced relation and having a radial slot on one side, and having a plurality of lock-rings rotatively mounted on the said shaft, the said rings having each a radial slot on one side extending outwardly from the said shaft and being provided with a recess concentric with the axis of the shaft on the side remote from the bolt receiving end, the said bolt member comprising a head and a bolt extending longitudinally therefrom and provided with a plurality of teeth along one edge, separated by spaces, the said bolt being receivable in the said lock member when the slots in the rings are in registration with the slot in the shaft so that the said teeth will be in registration with the said recesses and the opposed body portions of the rings will be housed in the said spaces, springs supported by the said shaft and engaged with the said rings operative to check the rotation of the said rings, and the parts being constructed and arranged so that turning one or more of the rings from the receiving position will effect a locking of the bolt in the lock member, with the teeth housed in the recesses of the rings, and also having the springs housed in the said recesses.

1,340,584. FEEDING MECHANISM FOR MACHINE-TOOLS. LORENZO E. WAITE, Toledo, Ohio. Filed June 7, 1919. Serial No. 302,440. 8 Claims. (Cl. 90—21.)



1. In a machine of the class described, a standard, a knee movable vertically thereon, a carriage carried by the knee and movable horizontally thereon, a table carried by the carriage and movable horizontally thereon and at right angles to the movements of the carriage, separate feed-screws for the knee, carriage, and table, a drive-shaft, and means whereby only one feed-screw can be connected at one time to the drive-shaft.

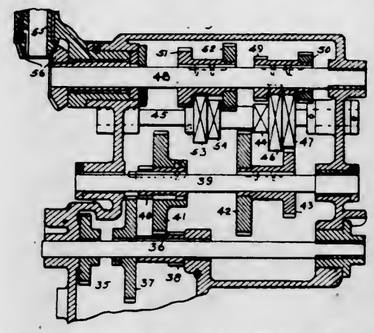
1,340,585. SPINDLE-DRIVING MECHANISM FOR MACHINE-TOOLS. LORENZO E. WAITE, Toledo, Ohio. Filed June 16, 1919. Serial No. 304,695. 2 Claims. (Cl. 74—58.)



1. In a mechanism of the class described, a hollow column, a spindle supported thereby, a pulley on the spindle, a shaft member and a sleeve member loose thereon, both supported by the column, a driving pulley on one member, a driven pulley on the other member, a driving connection between the spindle pulley and the driven pulley, a speed-casing within the column, and a set of speed-changing gears carried by the casing and having their initial and final gears operatively connected respectively to the said members.

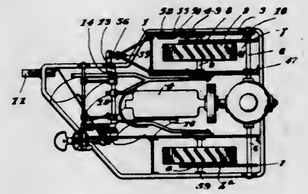
1,340,586. QUICK-TRAVERSE MECHANISM FOR FEEDS FOR MACHINE-TOOLS. LORENZO E. WAITE, Toledo, Ohio. Filed June 25, 1919. Serial No. 306,524. 6 Claims. (Cl. 90—21.)

1. In a machine tool, a traveling work-supporting means, a feed shaft for the same, separately-actuated drive and quick-traverse shafts, speed-change mechanism driven by the drive shaft, and means whereby either the speed-



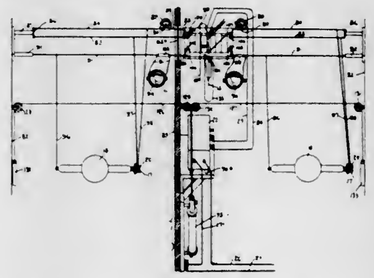
change mechanism or the quick-traverse shaft may be put into driving relation with the feed shaft.

1,340,587. WHEEL-LIFT. WILLIAM L. WALTON, Bantry, N. D. Original application filed June 12, 1912. Serial No. 703,239. Divided and this application filed Dec. 24, 1913. Serial No. 808,620. 5 Claims. (Cl. 180—41.)



4. In a traction device, a frame, a traction wheel mounted therein, an independently adjustable sub-frame, a traction wheel on the sub-frame, and power means for moving the sub-frame to bring the traction wheels to the same level, and means for manually adjusting the position of the traction wheel on the sub-frame.

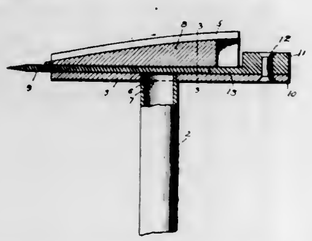
1,340,588. ELECTRICAL APPARATUS. JULIUS B. WANTZ, Chicago, Ill., assignor, by mesne assignments, to Victor Electric Corporation, Chicago, Ill., a Corporation of New York. Filed Apr. 29, 1915. Serial No. 24,791. 3 Claims. (Cl. 250—34.)



1. In X-ray apparatus for X-ray tubes having electrical heating elements, the combination of a plurality of disconnected sets of wires, certain of which are adapted for connection with the heating elements of X-ray tubes of said type, a source of low tension current, means for connecting said source of low tension current with any one of said sets of wires, single means operating when actuated to regulate the flow of low tension current to

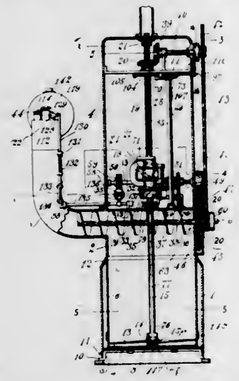
said wires, and a plurality of independently operative means located at different points and adjcent said tubes, respectively, for actuating said last referred to means to control the low tension current.

1,340,589. MILLSTONE-SHARPENING PICK. JAMES T. WHITENER, Tishomingo, Miss., assignor, by mesne assignments, of one-half to William L. Whitener, Tishomingo, Miss. Filed Jan. 5, 1916, Serial No. 70,490. Renewed Oct. 7, 1919. Serial No. 329,146. 2 Claims. (Cl. 125—42.)



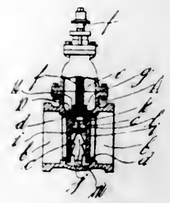
1. A tool of the class described including a forwardly tapered casing open at the front and back and provided at the rear end with an extension forming a continuation of the bottom of the casing, a handle connected with the casing between the ends thereof, a bit fitted flat against the bottom of the casing, a wedge extending longitudinally of the casing and interposed between the bit and the top of the casing, and a stop consisting of a block rigidly secured to the extension of the casing and confining the wedge in the casing when the bit is either in or out of the same, said block being provided at the front with a flat extension of substantially the same thickness as the bit and of a length to extend beneath the wedge when the latter is in engagement with the bit, said extension of the stop being also arranged to receive the wedge for supporting the same above the bottom of the casing when the bit is removed.

1,340,590. LARD-DISPENSING MACHINE. HARRY W. WILLIAMS, Dayton, Ohio, assignor to The Superior Tool Company, Dayton, Ohio, a Corporation of Ohio. Filed July 15, 1918, Serial No. 244,988. Renewed Mar. 15, 1920. Serial No. 366,038. 24 Claims. (Cl. 221—103.)



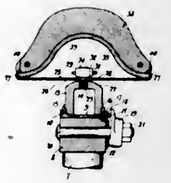
1. A lard dispensing mechanism including a vertically reciprocable piston and a spiral conveyer receiving the lard therefrom, a motor connected to said dispensing mechanism and reversing mechanism mounted between said motor and said dispensing mechanism and actuated by said dispensing mechanism.

1,340,591. GATE-VALVE. HERMAN L. WITTSTEIN, Springfield, Mass., assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass., a Corporation of Massachusetts. Filed July 28, 1919. Serial No. 313,806. 7 Claims. (Cl. 251—68.)



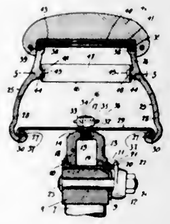
1. The combination in a gate valve, having laterally and longitudinally movable gates, means to move them laterally, and means to separate them longitudinally during their movement laterally inward, of an integral projection on each gate, and a member bridging across the gates and having two spaced shoulders so disposed as to engage said projections to limit the longitudinal separation of the gates and yet permit movement of the latter toward one another.

1,340,592. VEHICLE-WHEEL. WILLIAM N. ALLAN, San Antonio, Tex. Filed Aug. 8, 1919. Serial No. 316,162. 4 Claims. (Cl. 152—8.)



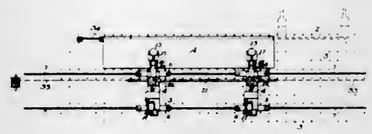
1. A tire comprising a removable rim, a plurality of arch-shaped clips disposed over and extending outwardly beyond the opposite sides of the rim, a tread device mounted over the clips, and transversely extending continuous flat springs intermediately secured to the rim and terminally engaging the opposite ends of the clips, the said springs also extending outwardly beyond the opposite sides of the rim.

1,340,593. VEHICLE-WHEEL. WILLIAM N. ALLAN, San Antonio, Tex. Filed Aug. 8, 1919. Serial No. 316,163. 4 Claims. (Cl. 152—8.)



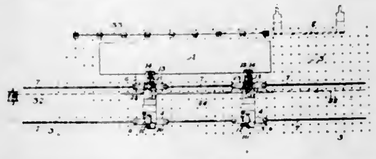
1. A tire comprising a removable rim, a series of flat springs connected to the rim, a plurality of opposed clips having their inner extremities engaged by the ends of the springs, means for connecting the outer ends of the clips, a continuous spring band bearing on said means, a yielding tread device applied over the spring band and the connecting means at the outer ends of the clips, and transversely extending spring units between the clips adjacent to the outer ends of the latter.

1,340,594. MANIPULATOR FOR PLATES AND THE LIKE. FLORENCE C. BIGGERT, Jr., Crafton, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 2, 1918. Serial No. 260,852. 15 Claims. (Cl. 214—1.)



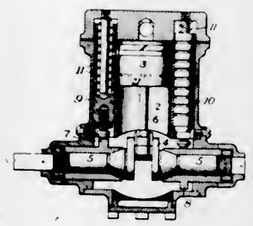
1. A plate manipulator comprising a movable carriage, a horizontally extending manipulator bar mounted on said carriage for endwise movement in a direction at substantially right angles to the direction of movemnt of the carriage, and a plate lifter mounted on said bar for vertical movement, substantially as described.

1,340,595. MANIPULATOR FOR SHEAR-TABLES. FLORENCE C. BIGGERT, Jr., Crafton, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 2, 1918. Serial No. 260,853. 7 Claims. (Cl. 214—1.)



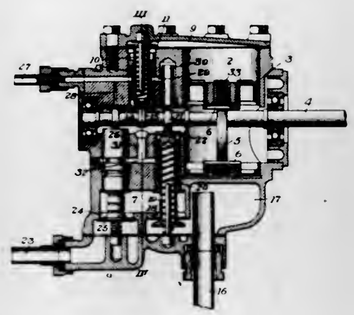
1. A manipulator for plates and the like, comprising two coöperating movable jaw members mounted for independent movement toward and away from each other, and actuating connections for mechanically operating said member, said connections having means for first moving one of said members toward the other and to subsequently move the other member toward the first named one, substantially as described.

1,340,596. PUMP. ANTONIN BOULADE, Lyon, France, assignor to Societe du Carburateur Zenith, Lyon, France. Filed Oct. 19, 1918. Serial No. 258,818. 12 Claims. (Cl. 103—52.)



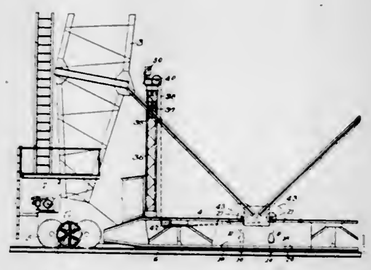
1. A pump comprising an aspirating cylinder having an opening communicating with the atmosphere, a piston in said cylinder and arranged to uncover said opening only at the end of the intake stroke of the piston, a liquid-receiving chamber communicating with the cylinder, inlet and outlet ports leading into and from said chamber, respectively, valves for controlling said ports, and means for actuating said valves, substantially as described.

1,340,597. PUMP. ANTONIN BOULADE, Lyon, France, assignor to Societe du Carburateur Zenith, Lyon, France. Filed Oct. 19, 1918. Serial No. 258,819. 10 Claims. (Cl. 103—52.)



1. A pump of the character described, comprising a cylinder, a piston therein, said cylinder having means whereby it is automatically placed in communication with the atmosphere at a certain point in the movement of the piston, an air tight liquid receiving chamber having a communication with the cylinder, a valve controlling said communication, said chamber also having an inlet connection and an outlet connection, valves for controlling said connections, and means for opening and closing the several valves at the proper times; substantially as described.

1,340,598. RAIL-CLAMP. RAYMOND E. BROWN, Glen Ridge, N. J., assignor to Heyl & Patterson Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 7, 1919. Serial No. 281,258. 12 Claims. (Cl. 188—43.)

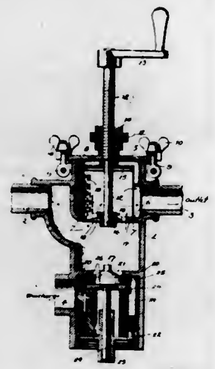


2. In a rail clamping device for traveling bridges and cranes, the combination of a plurality of sets of clamping jaws, a screw for moving each set of clamping jaws, and means for actuating the several screws comprising an equalizing device for turning each screw the amount necessary to bring the jaws into clamping engagement with the particular rail engaged; substantially as described.

1,340,599. STRAINER. RALPH S. CLARKE, Walpole, Mass., assignor to Bird Machine Company, a Corporation of Massachusetts. Filed July 26, 1919. Serial No. 313,652. 6 Claims. (Cl. 210—16.)

1. In a strainer, the combination of a casting or body having an outlet chamber formed at one end thereof, a discharge chamber, and an intermediate inlet chamber; a valve normally closing said discharge chamber from the

inlet chamber; a strainer located within the outlet chamber and in communication with the inlet chamber; and

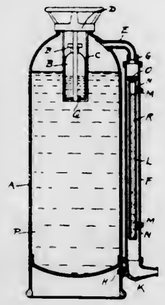


means for moving the strainer into the inlet chamber and opening the discharge valve.

1,340,600. TURPENTINE SUBSTITUTE. MARC DARAIN, Wilkinsburg, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 8, 1919. Serial No. 295,761. 7 Claims. (Cl. 134—56.)

7. A turpentine substitute containing a mixture of about 5 to 30 per cent. oxidized turpentine and 70 to 95 per cent. solvent naphtha.

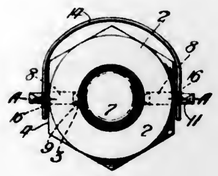
1,340,601. APPARATUS FOR GENERATING FOAM FOR EXTINGUISHING FIRES. JAMES B. ERWIN and ORLANDO R. ERWIN, Milwaukee, Wis. Filed Feb. 2, 1916. Serial No. 75,736. Renewed Oct. 6, 1919. Serial No. 328,927. 3 Claims. (Cl. 169—32.)



1. A device of the class described comprising a closed tank for a solution to be used in the production of foam, a foam generating auxiliary spout located exteriorly of said tank, an acid receptacle having an opening in one end thereof, the same being normally closed by a stopper, said receptacle being secured axially within the said spout and so arranged as to permit a foam passage therearound, the said tank and spout being in position for the production of foam upon being inverted, and a duct communicating between said tank and spout.

1,340,602. NUT-LOCKING DEVICE. GEORGE S. EVANS, Corryong, near Towong, Victoria, Australia. Filed Feb. 9, 1920. Serial No. 357,443. 2 Claims. (Cl. 151—24.)

1. The combination of a nut having a threaded, central opening for the passage of a bolt therethrough and also having a pair of diametrically-opposite, threaded holes which are disposed radially of the nut and extend at their inner ends through the wall of the bolt opening and at their outer ends through the corresponding side faces of the nut, said holes being offset vertically from each other a distance equal to the pitch of the threads of said opening whereby the inner ends of the holes are disposed directly opposite the grooves between the threads on the bolt; a pair of fastening screws inserted through said holes and having pointed parts at their inner ends which

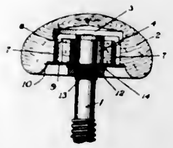


are immediately engaged in said threaded grooves to hold the nut against rotation on the bolt, said screws projecting at their outer ends through the holes; and a spring yoke partially encircling the side wall of said nut and provided adjacent its opposite ends with openings wherein the projecting ends of the screws are engaged, said yoke openings and screw ends having coacting plane portions to hold the screws against rotation.

1,340,603. PROCESS OF MAKING 2-AMINOANTHRAQUINONE. MAX FISCHER, Basel, Switzerland, assignor to J. R. Geigy S. A., Basel, Switzerland, a Corporation of Switzerland. Filed Mar. 8, 1919. Serial No. 281,499. 2 Claims. (Cl. 23—24.)

1. The herein described process for the manufacture of 2-aminoanthraquinone consisting in heating under superatmospheric pressure anthraquinone-2-sulfonic acid with ammonia in the presence of calcium chlorid and of sodium chlorid.

1,340,604. MEANS FOR ATTACHING HANDLES TO VALVE-STEMS. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Dec. 18, 1916. Serial No. 137,722. 7 Claims. (Cl. 16—171.)



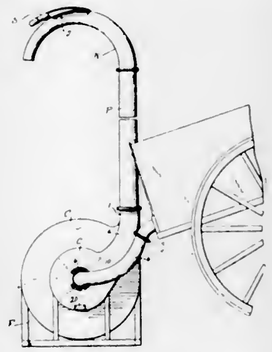
1. In combination with a valve stem, a head on said stem, a handle provided with a recess and with an elongated aperture communicating with said recess and so shaped as to admit said head to said recess, said head being displaceable in said recess out of alinement with said aperture, means whereby said head and handle may be interlocked in said last-named position by movement at an angle to the direction of said displacement, and means on said stem to secure said head in said interlocked relation with said handle.

1,340,605. LATCH. PETER GAZZI, Chicago Heights, Ill. Filed Jan. 3, 1920. Serial No. 349,145. 4 Claims. (Cl. 292—285.)



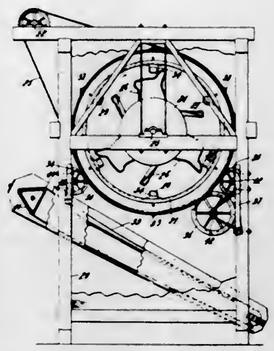
1. A device of the class described comprising a hasp strap and a latch carrying strap, said hasp strap terminating in a loop, a hasp provided with an opening adapted to register with the loop of said hasp strap, said hasp tapering toward its end and terminating in an enlargement, a right angularly extending lip provided upon said latch carrying strap, said lip provided with a vertical slot having a mouth leading thereto, a hook-shaped opening situated within said mouth, a plate bent over upon itself so as to form two similarly shaped side portions mounted upon said lip, said plate having an opening adapted to register with the vertical slot of said lip, and also a slot adapted to register with the hook-shaped opening provided in the mouth of said lip, a bolt having heads upon its extremity mounted in said last mentioned opening, means provided for holding said bolt in said hook shaped opening provided in the mouth of said lip and an aperture passing through said plate and said lip for receiving a seal.

1,340,606. GRAIN-ELEVATOR. DICK GROENEWOLD, Kiel, Okla. Filed Mar. 17, 1919. Serial No. 283,233. 1 Claim. (Cl. 193—21.)



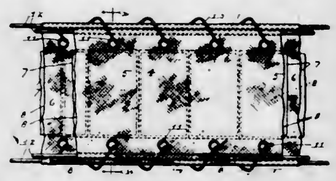
An elevator of the class described comprising a casing provided in its peripheral portion with an upwardly directed discharge member, and with an air opening in a side face, a second casing arranged at one side of the first casing, and carried thereby, said second casing being in communication with the discharge member, a shaft rotatably supported by the first named casing and extending therethrough and partially within the second casing, said shaft being arranged in substantially the center of the air inlet opening of the first named casing and extending therethrough exteriorly of the casing, said second casing in its outer side face and at a point in alinement with the shaft being provided with an opening, a conduit secured at one end to said second casing and discharging therein through the opening in the second casing, said outer face of the second casing at points in close proximity to the opening therein being provided with air ports, blades arranged within the second casing and carried by the portion of the shaft within said second casing, and fan blades within the first named casing and secured to said shaft, the portion of the shaft exterior of the first named casing being provided with driving means.

1,340,607. PEA-HULLER. FRANK HAMACHEK, Kewaunee, Wis. Filed Aug. 13, 1914. Serial No. 856,523. 16 Claims. (Cl. 130—30.)



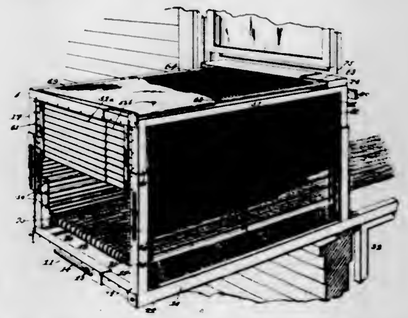
4. In a pea separator, a hulling beater inclined forwardly in its direction of travel and provided with recesses at its sides through which air may pass to draw vines farther down onto the hulling beater.

1,340,608. TIRE-PROTECTOR. WILLIAM A. HELM, Traverse City, Mich. Filed Mar. 24, 1919. Serial No. 284,727. 3 Claims. (Cl. 152—18.)



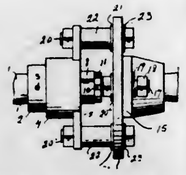
1. In a tire protector; a carrier member of rubberized asbestos fabric removably secured between the tire's casing and inner tube; a series of flexible celluloid plates carried by said member, edge toward edge, said series extending in the direction of the tire's circumference.

1,340,609. WINDOW-BED. ERNEST J. HENRY, Cedar Rapids, Iowa. Filed Apr. 7, 1919. Serial No. 288,048. 4 Claims. (Cl. 5—4.)



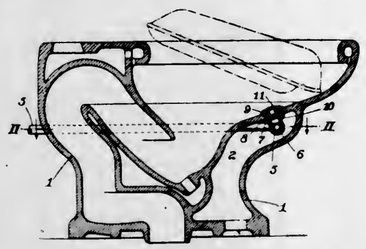
2. In a window-bed, the combination of a laterally expansible and adjustable bed-frame, similarly adjustable pedestals adapted to run from end to end of said frame, a sheave at the head of the bed-frame, and a rope passing over the sheave and connecting at one end with one of the pedestals, the other end extending to the foot of the bed.

1,340,610. FLEXIBLE ADJUSTABLE MAGNETO-COUPLING. RAY D. HILLS, Blanchard, Iowa. Filed July 28, 1919. Serial No. 313,912. 3 Claims. (Cl. 64—90.)



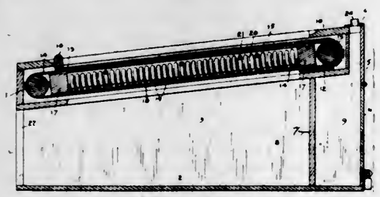
1. In a device as set forth, driving and driven members axially alined, a plate fast with the driving member, a flexible fiber disk connected to said plate and having lateral projecting flexible parts, a second plate operatively connected to the lateral flexible parts of the fiber disk, whereby the driving member is capable of movement relatively to the second plate, a driven member having a tapered end, the second plate having a tapered socket, a coupling socket engaging the tapered end of the driven member, and detachably and operatively engaging in the socket of the second plate, means passing transversely of the tapered end of the driven member and the coupling socket for detachably connecting said parts, said coupling socket having a reduced threaded extension engaging through the second plate axially with the socket, and a device on said reduced extension for drawing the coupling socket into the socket of the second plate.

1,340,611. SANITARY FIXTURE. WINFIELD E. HINSDALE, Trenton, N. J., assignor to Trenton Potteries Company, Trenton, N. J., a Corporation of New Jersey. Filed June 1, 1918. Serial No. 237,692. 4 Claims. (Cl. 4—18.)



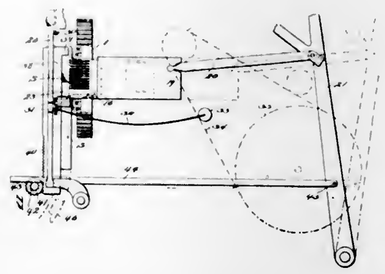
1. In combination with a water closet bowl; a jet nozzle opening into the bowl, below the normal water level, at the forward portion thereof; and a supply pipe housed within and concealed by the outside structure of the closet body and connected at its forward end to said nozzle.

1,340,612. GAME. FRANK W. HUDSON, Bakersfield, Calif., assignor, by direct and mesne assignments, to H. E. Johnstone, of Bakersfield, Calif. Filed Mar. 27, 1917, Serial No. 157,615. Renewed Mar. 3, 1920. Serial No. 363,083. 1 Claim. (Cl. 46—56.)



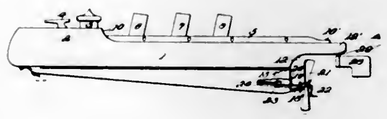
In a game, the combination of a plate having a plurality of apertures, pieces supported in said apertures, some of which are distinguishable from others, a pusher adapted to be held in the hand for ejecting any piece from its aperture, a curtain adapted to be withdrawn over the pieces after they have been placed in position in said apertures, and means for concealing the hand when ejecting a piece from its aperture.

1,340,613. CASTING MECHANISM FOR TYPOGRAPHICAL MACHINES. THOMAS W. JOHNS, Brooklyn, N. Y. Filed Sept. 12, 1918. Serial No. 253,722. 11 Claims. (Cl. 199—47.)



1. In casting mechanism for typographical machines, a slug casting mold comprising a body, end liners, and a cap forming a cavity for the casting of the slug therein, and a member having longitudinally spaced portions adapted to project transversely into said cavity between said liners and toward one end of the mold cavity to partially close and thereby reduce the length of said cavity, in combination with a metal pot mouthpiece having longitudinally spaced metal injecting orifices adapted to register with and to be closed by said longitudinally spaced portions of said member.

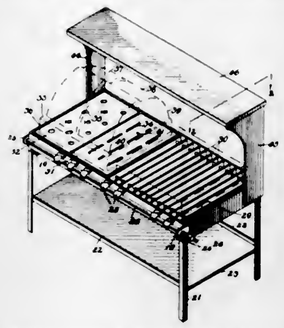
1,340,614. TOY BOAT. HARRY T. KINGSBURY and EDWARD J. KINGSBURY, Keene, N. H. Filed May 21, 1919. Serial No. 298,679. 4 Claims. (Cl. 46—37.)



1. A toy boat comprising a wooden hull, a sheet metal housing detachably secured to the bottom of said hull, a propeller shaft carried within said housing, a propeller on the rear end of said shaft and projecting from said housing, said housing tapering in depth from front to rear to form a keel.

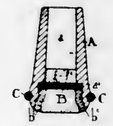
1,340,615. COMBINATION GAS-RANGE. RICHARD LAWA, New York, N. Y. Filed July 12, 1919. Serial No. 310,451. 1 Claim. (Cl. 126—39.)

In a gas range, the combination of a leg supported rectangular frame consisting of front and rear side plates and connecting end plates, the front side plate being of less depth than the other plates, the end plates being formed with inwardly projecting ledges in a plane below the front side plate, an inwardly projecting upper ledge formed on the frame all around just below its top edge, ledges and connecting rails carried by the frame in a plane between said end ledges and said upper ledge, gas burners disposed on said connections, a table-board engageable either with said end plate ledges below the burners or with said upper ledges over the burners, and devices by



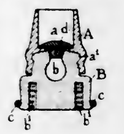
means of which cooking operations may be effected engageable upon the upper ledge and interchangeable as to position.

1,340,616. PAD USED ON CRUTCHES, ARTIFICIAL LIMBS, AND STICKS. FREDERICK CHARLES LYNDE, Manchester, England. Filed Sept. 27, 1918. Serial No. 255,949. 2 Claims. (Cl. 135—53.)



2. A buffer or pad for crutches, artificial limbs or sticks comprising in its construction a double socket one socket to receive a crutch limb or stick end, a resilient removable block inserted in the other socket, an annular insertion of non-slipping material incorporated in the resilient block, a metal plate between the upper socket and the resilient block and means to compress the ground-engaging end of said resilient block.

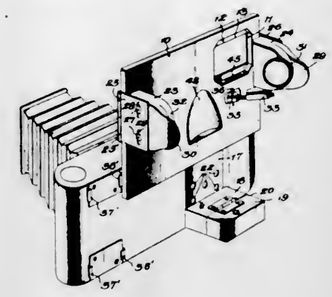
1,340,617. PAD USED ON CRUTCHES, ARTIFICIAL LIMBS, AND STICKS. FREDERICK CHARLES LYNDE, Manchester, England. Filed Sept. 27, 1918. Serial No. 255,950. 4 Claims. (Cl. 135—53.)



4. A buffer or pad of the character described, comprising a double socket, a resilient block provided with an air cavity to form a pneumatic cushion, an annular insert of non-slipping material incorporated in said resilient block, a block sealing and retaining member comprising a head portion adapted to engage the lower portion of the upper socket, a plug member projecting from said head portion and adapted to close the air cavity in said resilient block, and a metal ring positioned around said resilient member and below the socket members, substantially as described.

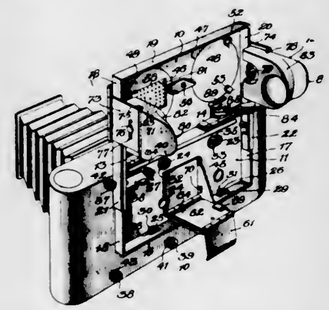
1,340,618. VIEW-FINDER FOR CAMERAS. HERBERT A. MCCALLUM, Yonkers, N. Y. Filed Mar. 16, 1918. Serial No. 222,856. 15 Claims. (Cl. 33—64.)

1. In combination with a camera, a view finder including a support secured to the camera having a view aperture similar in outline to the exposure aperture in the camera, and means on said support constructed and arranged to bear against the operator's head to hold the



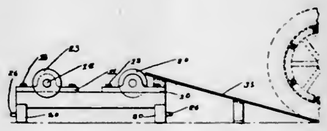
support with the aperture in fixed relation to one of the operator's eyes.

1,340,619. VIEW-FINDER FOR CAMERAS. HERBERT A. MCCALLUM, Yonkers, N. Y. Filed June 28, 1918. Serial No. 242,407. 18 Claims. (Cl. 33—63.)



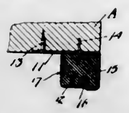
1. In combination with a camera, a view finder including two hinged plates adapted to swing from closed position to open position lying in substantially the same plane, means to detachably secure the lower plate to the camera, the upper plate having a view aperture similar in outline to the exposure aperture in the camera, and means on said plates constructed and arranged to bear against the observer's head to hold the plate with the aperture in fixed relation to one of the observer's eyes.

1,340,620. POWER DEVICE. SYLVESTER G. METZGER, Delphos, Ohio. Filed Oct. 17, 1919. Serial No. 331,311. 2 Claims. (Cl. 74—106.)



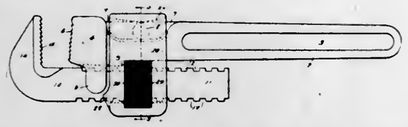
1. In a transmission device, a main frame, bearings supported by the main frame, shafts operating in the bearings, rollers on the shafts, a supporting frame including standards, each of said standards having a pin extending from the upper end thereof, horizontal bars, said horizontal bars having openings to receive the pins of the standards, whereby the standards and horizontal bars are connected, and a runway having connection with the main frame.

1,340,621. AUTOMOBILE-DOOR BUMPER. ALBERT L. MIERS, Indianapolis, Ind. Filed Dec. 26, 1918. Serial No. 268,284. 2 Claims. (Cl. 16—77.)



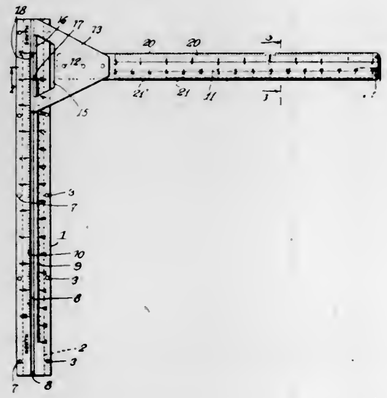
1. The combination with a supporting structure, of a plate secured to the structure and having a portion first turned outwardly at substantially right-angles and thence turned substantially at right-angles and parallel with the plate, thence turned again at right-angles and directed toward but stopping short of the body of the plate, the interval between being greater than the length of the third side, the rectangle indicated by the four side portions having its shorter dimension parallel with the body of the plate, and a resilient body having a slot receiving and embracing the fourth mentioned side of the plate member and having its major portion without the indicated rectangle and bearing against the body of the plate.

1,340,622. PIPE-WRENCH. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 30, 1919. Serial No. 293,634. 7 Claims. (Cl. 81—102.)



1. In a pipe wrench, the combination of two members, each having a jaw and a shank, one of said shanks being externally threaded, a yoke embracing the shanks, a nut on the threaded shank rotatively connected with the yoke, recesses formed in the opposite sides of the shank of the other member, and projections on the inner faces of the yoke occupying said recesses.

1,340,623. COÖRDINATOR. WILLIAM L. OWENS, Scottdale, Pa. Filed June 11, 1919. Serial No. 303,480. 2 Claims. (Cl. 33—76.)



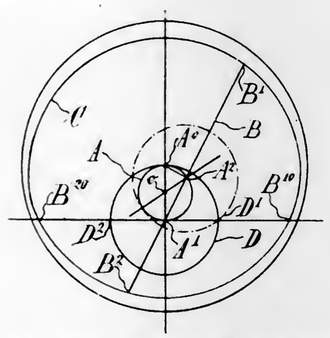
2. A measuring instrument comprising a blade having an undercut guide groove, scales on said blade, a runner adapted to traverse said undercut guide groove, said runner having a portion thereof cut away to expose the graduations on one of the scales on the blade and a second blade having at least one set of graduations thereon secured to said runner.

1,340,624. WEEDING-TOOL. LOUIS J. PANETTI and DAVID C. PANETTI, Jump River, Wis. Filed July 18, 1918. Serial No. 245,496. 1 Claim. (Cl. 55—45.)



As a new manufacture, a weeder comprising a narrow, rectangular cutting blade having cutting edges upon its two parallel sides, and a cutter edge across one end, a shank at the opposite end, said shank being formed at right angles to said blade, said blade having a comparatively thick center, and a handle in which the shank is inserted.

1,340,625. ROTARY MACHINE. BENJAMIN RENÉ PLANCHE, Villefranche-sur-Saône, France. Filed Nov. 27, 1918. Serial No. 264,311. 3 Claims. (Cl. 121—67.)

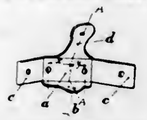


1. A rotary machine of the character described comprising a cylinder having a base in the form of a conchoid of a circle, a piston of length equal to the height of said conchoid, said piston being rotatably mounted in its center upon a spindle mounted eccentrically on the shaft of the machine, one of the sides of said piston being provided with two grooves normal with respect to each other, in which are mounted two fixed fingers or spindles, one of which has its axis in line with the axis of the crank shaft and the other is in the central plane of the conchoid, the distance between said spindles being equal to the eccentricity of the axis on which the blade is mounted.

1,340,626. METAL FITTING FOR CONNECTING TOGETHER CERTAIN STRUCTURAL MEMBERS OF AN AEROPLANE. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Filed Dec. 19, 1918. Serial No. 267,548. 1 Claim. (Cl. 244—31.)

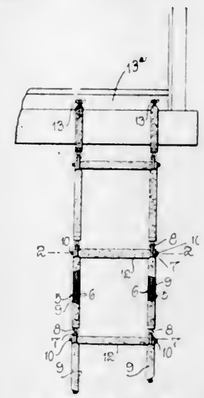
A metal fitting for aeroplanes for effecting the connection of a longitudinal beam with an upright or a cross member and the attachment of stay wires thereto, comprising a metal plate cut out and folded in such a manner

as to have a main face, a lateral face perpendicular to the main face, a central lug and two end lugs, the said three lugs having holes for the attachment of the stay wires, the main face which is adapted to lie between the longitudinal and the end of the cross member or other element, having holes which are at different distances from the axis



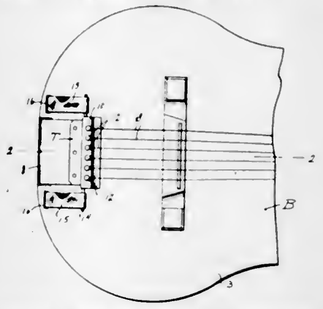
passing through the hole of the central lug, in such a manner that when the central lugs of two neighboring fittings are assembled in position and connected by a member passing through the holes in said lugs the holes of the main faces do not coincide, thus allowing the metal fittings to be secured to the longitudinal by means of bolts passing completely through the longitudinal.

1,340,627. LADDER. LETITIA POWELL, Caruthersville, Mo. Filed Aug. 13, 1919. Serial No. 317,222. 1 Claim. (Cl. 228—40.)



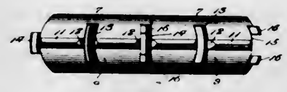
In a ladder, the combination with a pair of parallel ladder side rails, comprising a plurality of heat non-conducting side rail sections, certain of the ends of the said sections having swivel eyes, the opposite ends of said rail sections having hooks adapted to engage said swivel eyes, said hooks being bent to form loops after having engaged in said eyes, of heat non-conducting ladder rungs provided with reduced ends engaging said loops, and means threaded on said reduced ends to hold said rungs in place, an also to hold said ladder rails parallel and equally spaced.

1,340,628. STRINGED MUSICAL INSTRUMENT. ENRICO RE, Camden, N. J. Filed Dec. 24, 1919. Serial No. 347,149. 5 Claims. (Cl. 84—146.)



5. A stringed musical instrument comprising a body having a recess in its end wall, a block loosely mounted in said recess, means engaging said block for moving the same relative to a face of the body, and a flexible member engaging with said block and overlying the face of the body, a tail piece carried by the flexible member, and a roller intersecting the recess and with which the flexible member engages.

1,340,629. ANTISLIPPING TIRE-ARMOR. CHARLES ELEETT ROSS, Lebanon, Ohio. Filed Nov. 23, 1917. Serial No. 203,604. 1 Claim. (Cl. 152—16.)



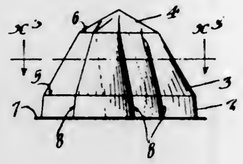
A tire armor comprising a plurality of arcuate-shaped sections, each including a tread portion, sides, and a tire-engaging portion; each section having a portion of an epicycloidal-shaped cross-cleat, in the form of a lug, disposed on one end of the section; a plurality of similar portions projecting from the opposite end of the section, whereby, when assembled with the lug on one end of a section associated with the plurality of lugs on the next succeeding section, a complete epicycloidal-shaped cross-cleat is formed; a circumferentially disposed cleat on the tread portion between the cross-cleats; and means for securing the sections together to constitute a complete armor adapted to cover the sides and tread portion of a tire and of slightly smaller dimensional area at its tire-engaging portion than the tire, whereby the armor will be securely retained in engagement with the tire when the latter is inflated.

1,340,630. ARM-ABDUCTION SPLINT. ROBERT D. MADDOX, U. S. Army. Filed Dec. 31, 1918. Serial No. 268,100. 5 Claims. (Cl. 128—94.) Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



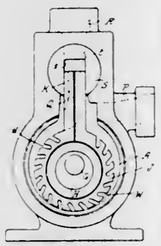
1. A device of the class described comprising a standard having means for supporting said device upon the body of a patient, said means adjustable on the standard, a sleeve adjustable longitudinally of the standard and independently of the body supporting means, a bar adapted to support an arm of the patient, a sleeve adjustable longitudinally of the bar, and means for swingingly uniting said sleeves.

1,340,631. PLANT-PROTECTING CAP. WALTER R. SCHINDLER, Long Beach, Calif. Filed Oct. 8, 1919. Serial No. 329,309. 6 Claims. (Cl. 47—22.)



1. A plant protecting seamless cap comprising a plurality of superposed frustrated cone-shaped side-wall sections surmounted by a relatively flat cone-shaped top wall section, the peripheral base edge of the lower wall section being flanged outwardly.

1,340,632. ROTARY PUMP. ALBERT EDWARD SHINER, London, England. Filed Apr. 19, 1918. Serial No. 229,623. 1 Claim. (Cl. 103—44.)



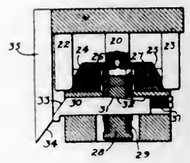
A rotary pump comprising a pump-chamber, a pendulum rotor consisting of a bob and a stem, the latter having a delivery channel passing longitudinally through it, an oscillating member seated in an extension of the pump-chamber, said member being made in one piece slotted from end to end to receive the stem of the pendulum rotor, and having a central outlet for the fluid, the periphery of the pendulum bob being provided with tangential channels for throwing the liquid against the wall of the pump chamber.

1,340,633. KILN. JUAN N. SILVA, Dover, Ohio. Filed Feb. 28, 1919. Serial No. 279,842. 2 Claims. (Cl. 25—135.)



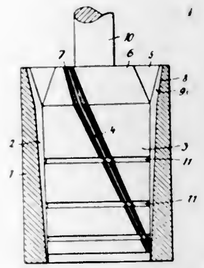
1. The combination with a plurality of kilns, a feed tunnel and an exhaust tunnel extending past them all, a manifold connected at its ends with said tunnels respectively and with its body encircling each kiln and communicating with the interior thereof near its wall, and valves in the ends of each manifold; of a single flue common to the series of kilns and communicating with the centers thereof through their bottoms, connections between this flue and the exhaust tunnel, an exhaust fan in the exhaust tunnel, a branched outlet therefrom, one branch leading into a stack and provided with a damper, a blower in the feed tunnel, inlets thereto whereof one is from said stack, and dampers in said inlets.

1,340,634. MACHINE FOR MAKING SNAP-FASTENERS. OSCAR SODERSTROM, New York, N. Y., and WARREN FUHRMANN, Westfield, N. J. Filed Apr. 14, 1917, Serial No. 162,156. Renewed Oct. 20, 1919. Serial No. 332,101. 4 Claims. (Cl. 113—38.)



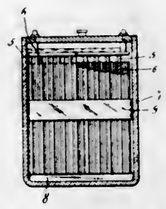
1. A sheet metal shaping apparatus comprising a bed, a plunger movable to and from the bed, a pair of laterally movable arms on the bed, said arms having their opposite ends arranged to engage and clamp the cylindrical neck of a blank, means for causing approach of said arms to clamp the neck on the initial downward movement of the plunger, a recessed die on the plunger arranged to engage the top of the blank at the latter portion of the descent of the plunger after the clamping of the neck by said arms to cuse the end of the neck to expand to form a spherical head, a block located below the cylindrical portion of the blank engaged by the arms, and means actuated on descent of the plunger to elevate said block to engage the base of the blank and support it on descent of the plunger and die.

1,340,635. GRINDING-MILL FOR COFFEE. KRISTEN SEVERIN STENBO, Copenhagen, Denmark. Filed Apr. 25, 1919. Serial No. 292,682. 1 Claim. (Cl. 83—13.)



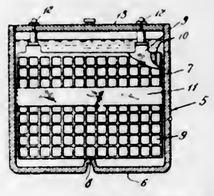
In a grinding mill for coffee comprising an outer and an inner grinding member with grinding teeth or ribs, a number of grinding teeth or ribs in the said grinding members being equal both where the recesses between the teeth or ribs are deepest and where they are shallowest, the said grinding teeth or ribs on both of the said grinding members covering the grinding surfaces entirely, one or more annular endless grooves in one or both of the grinding members, the said grooves intersecting the teeth or ribs of the grinding members.

1,340,636. STORAGE BATTERY. NORMAN DEXTER STURGES, Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company, a Corporation of New York. Filed Feb. 27, 1920. Serial No. 361,887. 5 Claims. (Cl. 204—29.)



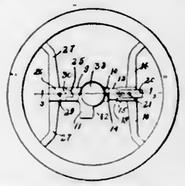
4. A storage battery comprising a series of plates and spaces therefor immersed in an electrolyte and a band of celluloid encircling and holding said plates in assembled relation.

1,340,637. STORAGE BATTERY. NORMAN DEXTER STURGES, Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company, a Corporation of New York. Filed Feb. 27, 1920. Serial No. 361,888. 3 Claims. (Cl. 204—29.)



2. An improvement in storage batteries including a plurality of plates, which comprises a glass jar having a single rib only formed integrally with the bottom of said jar and adapted to support said plates, said rib being disposed at or near the medial line of said bottom.

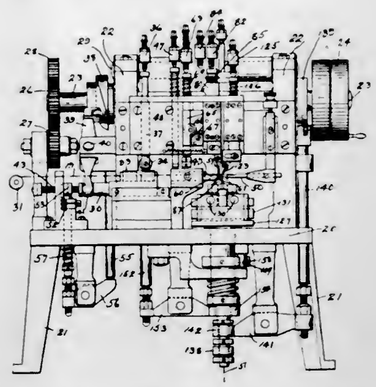
1,340,638. ADJUSTABLE STEERING-WHEEL AND LOCK. FREDERICK W. VODOZ, Chicago, Ill., assignor to Johnson Automobile Lock Company, a Corporation of Illinois. Filed July 20, 1917. Serial No. 181,782. 3 Claims. (Cl. 74—33.)



1. A steering wheel comprising in combination with a column steering shaft, a grooved sleeve secured upon the shaft, a casing member journaled therearound, a steering wheel slidably and rotatably mounted upon said casing, and means within said casing attached to said steering wheel adapted to engage with said grooved sleeve to lock the steering wheel upon said sleeve and retractable therefrom to permit free rotational movement of the steering wheel around said sleeve.

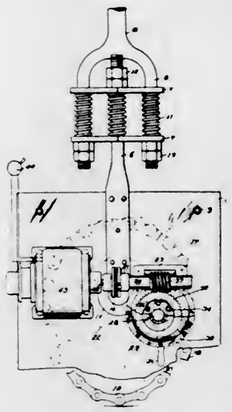
1,340,639. CHAIN-MAKING MACHINE. HERMANN WEINACKER, Providence, R. I., assignor, by mesne assignments, to General Chain Company, Providence, R. I., a Corporation of Massachusetts. Filed Nov. 20, 1917. Serial No. 203,017. 14 Claims. (Cl. 59—25.)

1. In a chain machine, a link-forming head, means for feeding the wire to said head, wire severing means, means for shifting said severing means for cutting the wire into predetermined lengths differing from the length of wire



bed, and means for bending the different lengths into links of different sizes.

1,340,640. BILLET-TURNER. LON L. WELCH, San Francisco, Calif., assignor to Hampton Electric and Machine Company, San Francisco, Calif., a Corporation of California. Filed Dec. 14, 1918. Serial No. 266,827. 6 Claims. (Cl. 78—96.)

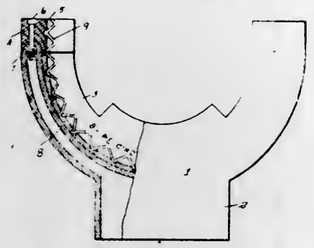


6. In a billet turner, a frame, a sprocket rotatably mounted in said frame, a chain on said sprocket for supporting said billet, a spur gear mounted for rotation with said sprocket, a pivotally mounted sleeve, a shaft eccentrically mounted in said sleeve, a pinion on said shaft normally engaged with said gear, a worm wheel pivotally arranged on said shaft, a resilient coupling between said worm wheel and said shaft, means for revolving the worm wheel, and means for turning the sleeve to free said pinion from said gear.

1,340,641. VULCANIZER. HERBERT K. WHEELOCK, Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill., a Copartnership consisting of Herbert K. Wheelock, Walter R. Fontaine, and Frank A. Weller. Filed Nov. 30, 1917. Serial No. 204,688. 10 Claims. (Cl. 18—18.)

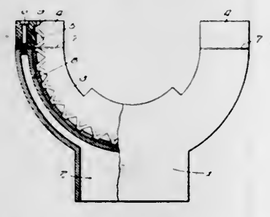
10. In a tire vulcanizer, the combination with a mold having a tire-receiving groove therein, of members secured to the ends of said mold to retard heat transmission from

the mold to the tire, said members having tire-receiving grooves forming continuations of the tire receiving groove



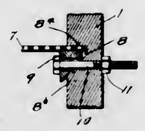
of the mold and having tire-engaging surfaces conforming in contour to the tire-engaging surface of said mold.

1,340,642. VULCANIZER. HERBERT K. WHEELOCK, Chicago, Ill., assignor to Western Vulcanizer Manufacturing Company, a Copartnership consisting of Herbert K. Wheelock, Frank A. Weller, and Walter R. Fontaine, Chicago, Ill. Original application filed Nov. 30, 1917, Serial No. 204,688. Divided and this application filed Feb. 16, 1920. Serial No. 359,085. 6 Claims. (Cl. 18—18.)



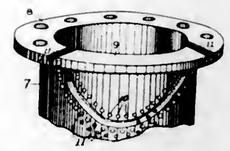
1. A device of the character specified, comprising a mold casing shaped to fit a pneumatic tire, means for supplying steam to the casing, a removable matrix adapted to be arranged between the tire and the casing, means for clamping the casing on a tire, and cooling blocks of non-heat-conducting material at the ends of the casing and engaging the tire.

1,340,643. CAGE CONSTRUCTION FOR MILLS. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed July 14, 1917. Serial No. 180,548. 1 Claim. (Cl. 83—11.)



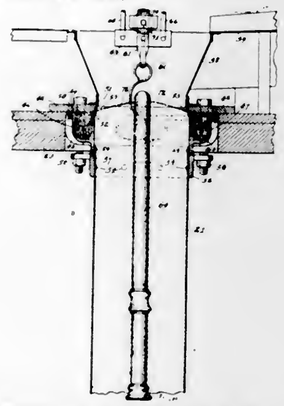
The combination with a wall provided on its inner face with an arcuate groove, said groove having an inclined face and a perforated plate having an edge thereof positioned in said groove opposite to the inclined face thereof, of an arc-shaped wedge member positioned in the groove between the perforated plate and the inclined face of said groove, there being a slot formed in said wedge member, a clamping member passing through the wall adjacent to the groove and through the slot in the wedge member, the slot in said clamping member being of such width as to permit the lateral movement of said clamping member, the inner end of the latter directly engaging the outer face of the arc-shaped wedge, and means adjustably mounted on the outer end of said clamping member for drawing it through the wall and exerting pressure against the wedge member.

1,340,644. REINFORCED WELDED JOINT. DAVID H. WILSON, Ridgewood Park, and ROBERT G. HUTTON, Wortendyke, N. J. Filed Sept. 14, 1918. Serial No. 254,153. 8 Claims. (Cl. 219—8.)



1. A reinforced welded joint comprising welding metal united to other metal by welding, and projecting members on the one engaging the other to form a mechanical grip to reinforce the joint.

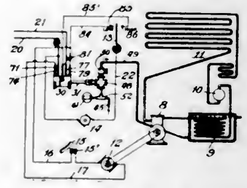
1,340,645. METHOD OF AND APPARATUS FOR APPLYING LIQUID COATING. EDWARD C. ALLEMAN, Kenosha, Wis., assignor to Simmons Company, a Corporation of Delaware. Filed Mar. 24, 1916, Serial No. 86,337. Renewed Jan. 5, 1920. Serial No. 349,638. 12 Claims. (Cl. 91—44.)



4. In apparatus of the class described, the combination of a circulating pump, a pair of parallel conduits situated in the same horizontal plane and connected with said pump, said conduits having along their parallel adjacent sides longitudinal slits of comparatively limited width for delivering opposed sheet-like jets of coating fluid, and a receptacle for collecting the surplus coating fluid and communicating with said pump.

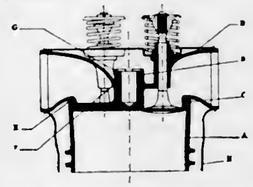
11. The improvement in the art of applying a liquid coating to the surface of an article, which consists in projecting an unbroken sheet of coating fluid freely through space and progressively passing the article through said sheet.

1,340,646. REFRIGERATING APPARATUS. AUGUST P. ANDERSON, Chicago, Ill. Filed May 29, 1918. Serial No. 237,201. 8 Claims. (Cl. 62—4.)



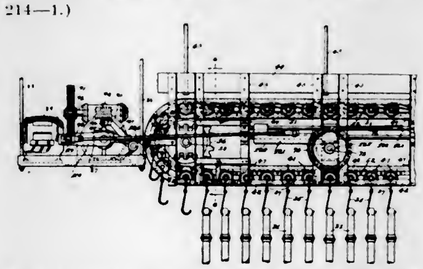
1. In refrigerating apparatus, the combination with a compressor, a circulating line, a condenser, and a motor for driving the compressor, of mechanism for automatically controlling said motor, comprising a thermostat, a starting motor, a shaft operable by the starting motor, a rotatable switch on sand shaft, a valve for cooling liquid for the condenser axially alined with said shaft, an operative connection between said shaft and said valve, and switch connections operated by said shaft for controlling the operation of the starting motor for limited periods.

1,340,647. CYLINDER FOR INTERNAL-COMBUSTION ENGINES. MARIUS JEAN BAPTISTE BARBAROU, Neuilly-sur Seine, France. Filed Oct. 31, 1918. Serial No. 260,573. 3 Claims. (Cl. 123—173.)



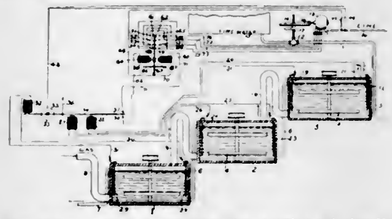
1. A cylinder for internal combustion engines comprising a steel barrel having a head and provided along the edge of the head with an integral annular flange interiorly screwthreaded and projecting beyond the head, an upstanding boss being provided at approximately the center of the cylinder head, a valve box of cast metal having a central sleeve engaging said boss and a threaded peripheral part engaging the said threaded flange and a nut screwed on the boss and engaging with the said central sleeve.

1,340,648. HANDLING APPARATUS. MATTHEW F. BAYER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Dec. 26, 1917. Serial No. 208,793. 18 Claims. (Cl. 214—1.)



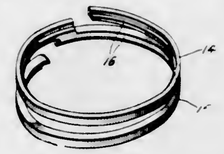
6. In a device of the class described, the combination of an elevated frame, a plurality of carriers movable consecutively along the under side of the frame and normally elevated mechanism adapted to be depressed below the frame to successively project the carriers down from and return same to the frame.

1,340,649. PROCESS FOR REGULATING THE ACIDITY OF SULFITE LIQUOR. JOSEPH B. CRANDON, Portland, Me., assignor to Crandon Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Nov. 23, 1917. Serial No. 203495. Renewed Mar. 25, 1920. Serial No. 368,693. 4 Claims. (Cl. 23—13.)



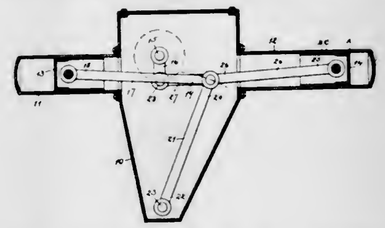
1. The process of determining the acidity of the liquor for use in pulp digesters and other like purposes consisting of bringing said liquor into contact with an anode and cathode to form an electric battery and indicating the electric current thus produced.

1,340,650. PISTON PACKING-RING. JOSEPH P. DERANEK, East St. Louis, Ill. Filed Apr. 18, 1918. Serial No. 229,297. 2 Claims. (Cl. 74—109.)



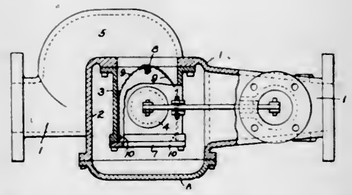
1. A packing ring comprising an expansible open base ring provided in its outer face with a groove, and an expansible member encircling said base ring, said expansible member being constructed from a single piece of resilient metal in the form of a spiral having two coils or rings and each coil or ring having an inwardly projecting portion which occupies the groove in the base ring when said expansible member and base ring are assembled.

1,340,651. INTERNAL-EXPLOSIVE ENGINE. RICHARD R. DIETRICH, Baltimore, Md. Filed Aug. 3, 1916. Serial No. 112,891. 2 Claims. (Cl. 123—54.)



1. The combination with a plurality of cylinders, of a piston in each cylinder; a connecting-rod for each piston and each rod having an outer end pivoted to a piston and the inner ends of the rods being pivoted on the same axis and thereby mechanically connected together; a crankshaft having a crank which latter traverses a circular path in a plane between the two pistons and a link having one end pivotally connected with the crank and the other end of said link being pivotally connected with the two pivoted-together ends of the two connecting-rods.

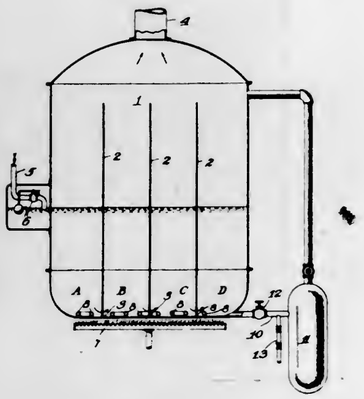
1,340,652. VALVE-CHEST. LEVI H. DUNCAN, Ben Avon, Pa. Filed Oct. 1, 1919. Serial No. 327,719. 5 Claims. (Cl. 251—155.)



1. A seed drill comprising a series of compacting and conduits, the combination, with a conduit, of a valve chest interrupting the continuity of the conduit, said valve chest being provided internally with a partition wall dividing the space within into inlet and outlet chambers, an extension removably carried by the partition wall and forming a protrusion of one of said chambers within the other, a valve in said extension, and alined hand holes in

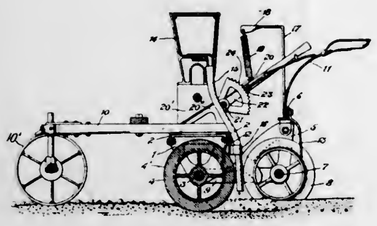
valve chest and extension, through which access may be had to the valve in the extension without disturbance of said valve chest from its connections between adjacent conduit sections, substantially as described.

1,340,653. APPARATUS AND PROCESS FOR THE CONTINUOUS DISTILLATION OF LIQUIDS. FREEMAN I. GIBSON, Savannah, Ga. Filed July 30, 1918. Serial No. 247,449. 3 Claims. (Cl. 87—4.)



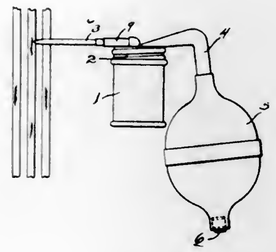
1. A continuous process for distilling liquids, comprising continuously feeding the liquid into a still provided with compartments communicating progressively below the level of the liquid in each of said compartments by restricted openings and having a common vapor chamber, heating the still to the distillation temperature, withdrawing the distilled products from the common vapor chamber and withdrawing the residue from the last compartment.

1,340,654. APPARATUS FOR SEEDING. RAY H. GRISWOLD and ALFRED W. HAMMOND, Cleveland, Ohio, assignors to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Apr. 21, 1916. Serial No. 92,726. 3 Claims. (Cl. 111—54.)



1. A seed drill comprising a series of compacting and pulverizing disks arranged close together, each of said disks being provided with a wedging and compacting peripheral portion, seed tubes, at the rear of said disks, a second series of disks mounted on a frame adjustable relative to the first series to alter the angular relation thereto with respect to the horizontal line of draft, whereby the effect of the rear gang may be varied to suit soil conditions, and a connecting means to hold the two gangs in their adjusted relation, and the disks of each gang in the proper relation to each other, substantially as shown and described and for the purpose set forth.

1,340,655. COLD PROCESS OF REPAIRING RADIATORS OF INTERNAL-COMBUSTION ENGINES. THOMAS E. HENDERSON, Fort Worth, Tex. Filed Nov. 22, 1919. Serial No. 339,859. 3 Claims. (Cl. 91—68.)



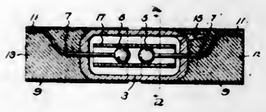
1. A cold process of repairing motor radiators consisting of mixing two kinds of powdered metal and a binder liquid, projecting the mixture on the parts to be repaired, and allowing the object to remain stationary until the mixture is set or dried.

1,340,656. WALL CONSTRUCTION FOR MAUSOLEUMS. WILLIAM E. HUGHES and JAMES B. KING, Clyde, Ohio, assignors to The Hughes Granite Company, Clyde, Ohio, a Corporation of Ohio. Filed Nov. 21, 1917. Serial No. 203,266. 5 Claims. (Cl. 72—38.)



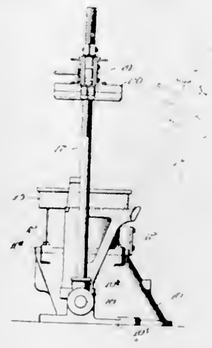
1. A wall construction for mausoleums, comprising superimposed slabs each formed in one horizontal surface with longitudinal tongues and with end slots large in cross-section as compared with said tongues, and formed in the other horizontal surface with complementary grooves and complementary end tenons.

1,340,657. LIGHTNING-ARRESTER. EDWARD JACOBUS, Montclair, N. J. Filed Dec. 12, 1919. Serial No. 344,331. 9 Claims. (Cl. 175—30.)



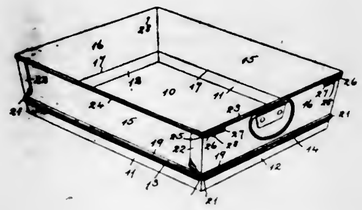
1. A lightning arrester comprising separated electrodes, a sealed-in container surrounding said electrodes and formed of glass having a relatively low melting point and a protecting member between the electrodes and the container formed of glass having a relatively high melting point.

1,340,658. MOLDING-MACHINE. WILLIAM P. KRAUSE, Chicago, Ill., assignor to Mumford Molding Machine Company, a Corporation of New Jersey. Filed Feb. 10, 1919. Serial No. 275,937. 4 Claims. (Cl. 22—9.)



3. In a device of the class described, a tubular base, and a cylinder suported thereby adjacent the top thereof, the axis of said base being inclined rearwardly from top to bottom.

1,340,659. BAKING-PAN. LOTTIE LEWITZKY, Philadelphia, Pa. Filed Nov. 17, 1919. Serial No. 338,437. 3 Claims. (Cl. 53—6.)

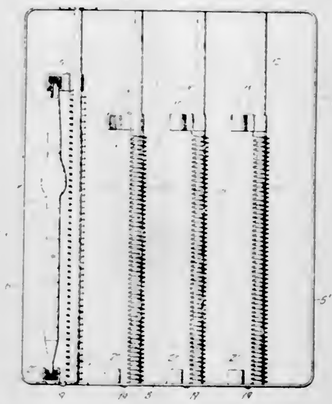


2. The combination with a shallow pan having a bottom and up-standing side and end walls and each of said walls having a tubular roll at its upper edge, of a movable wall for each of the walls of the shallow pan and each movable wall having an upturned flap on its outer side, and means for pivotally connecting the up-turned flaps of the movable walls with the tubular rolls on the upper edges of the shallow pan-walls.

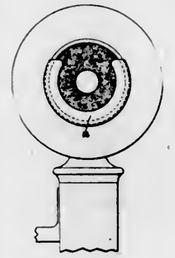
1,340,660. HOLDER AND CARRIER FOR BLOOD-PIPETTES. TIODOLF LIDBERG, Chicago, Ill. Filed Sept. 19, 1919. Serial No. 324,969. 3 Claims. (Cl. 206—1.)

1. A device of the character described having in combinative association a frame; a rod connected at its ends to the top and bottom members of the frame; a head slidable on one end of the rod; a socket carried by the head, having a yielding material therein; another, similar socket fixed to the other end of the frame and a spring for yieldingly moving the head from one end of the rod toward the socket at the other end.

2. A device of the character described having in combinative association a frame; a plurality of parallel spaced apart rods connected at their ends to the top and bottom ends of the frame; a head, slidable on one end of each of the rods; a socket carried by each head having a yielding material therein; another similar socket for each head fixed to the other end of the frame and a spring, wound about each of the rods, for yieldingly moving the respective heads from one end of its rod toward the coöperating socket at the other end thereof.



1,340,661. DISINFECTANT AND ODORIZER. FREDERICK LOBL, Boston, Mass. Filed Aug. 1, 1916. Serial No. 112,603. 3 Claims. (Cl. 167—3.)



3. An effervescent, fugitive, odorizing tablet, comprising substantially one pound and a half of talc, three pounds of an alkaline carbonate such as sodium bicarbonate, one half pound of a suitable acid such as citric acid to produce effervescence, a scenting agent, one half pint of alcohol, two ounces of vaseline, two ounces of boric acid, and one half pound formaldehyde adapted to substantially disappear through evaporation in the presence of moisture from the breath.

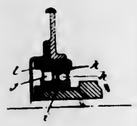
1,340,662. INHALER. FREDERICK LOBL, Middleboro, Mass. Filed June 21, 1917. Serial No. 176,076. 1 Claim. (Cl. 128—198.)



A two-piece medicament holder comprising a holder member with an open end and a perforated closed end, the latter having a deep recess formed therein with first substantially parallel end walls, next converging walls and again substantially parallel end walls to closely fit the dividing nasal partition member of the nose, depression in the side walls of the holder from the end of the recess to the lower end of the holder member forming air passages on either side of the holder leading to the interior thereof, and a flanged cover adapted to be used on either end of the

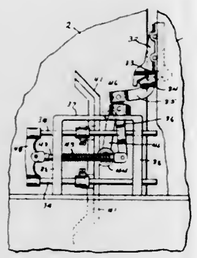
holder, in the one case to permit use of the medicament by direct application, and in the other case to cover the medicament and adapt the holder for use as an inhaler.

1,340,663. SPECIAL DESIGN FOR BALL-BEARINGS AND THRUST-BEARINGS. AUGUSTE MAIRE, Argenteuil, France, assignor to Societe Lorraine Des Anciennes Etablissements De Dietrich & Cie, De Luneville, Paris, France. Filed Oct. 27, 1917. Serial No. 198,749. 4 Claims. (Cl. 64—36.)



4. A ball or roller bearing comprising a race member having two adjacent races therein, one for radial pressure and the other for axial pressure, a composite race member concentric with the first and having a radial pressure race and an axial pressure race opposite the respective races above mentioned, the said composite race member being divided along the axial plane of the axial pressure race, and rolling members in said races.

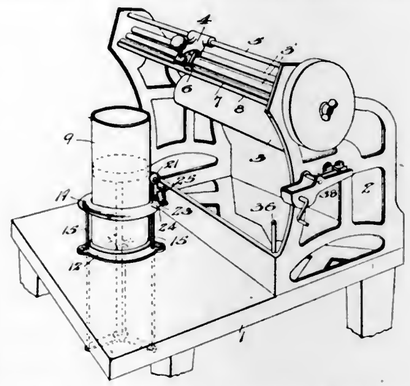
1,340,664. ELEVATOR-LOCK. EMMETT S. MILLER, Chicago, Ill. Filed Sept. 7, 1918. Serial No. 253,086. 1 Claim. (Cl. 187—61.)



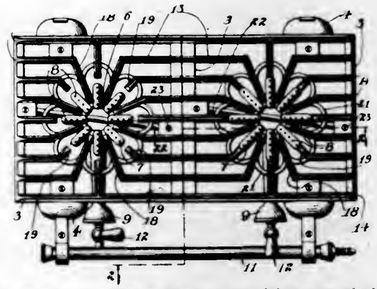
In control mechanism for elevators, a shaft door, a serrated latch member mounted thereon, a suitable frame mounted on the shaft, a lever pivoted on said frame having a depressible extension a portion whereof is serrated and coacts with said latch member when the latter is closed, parallel rods slidably mounted in said frame and connected to move in unison, a yielding plunger intermediate said rods and connected thereto, one end of said plunger pivotally connected to said lever, a vertically disposed striker track adjustably mounted upon and movable with said parallel rods, in combination with means mounted upon the elevator cage for actuating said devices consisting of a third-class lever the free end whereof is normally out of the plane of said striker-track, a rock-shaft upon which said lever is mounted, and devices within the elevator cage for actuating said rock-shaft whereby the movable end of said lever is moved beyond the plane of the striker-track to actuate the same and release the door by depressing the extension on said first-mentioned lever.

1,340,665. WRAPPING-MACHINE. WILLIAM B. MUNN, Memphis, Tenn., assignor of one-half to May Scharff, Memphis, Tenn. Filed Dec. 10, 1918. Serial No. 266,114. 6 Claims. (Cl. 223—55.)

1. The combination with a fixed vertically disposed cylinder adapted to have a sheet wrapped thereabout, of a movable bottom within the cylinder and means connected therewith for reciprocating the bottom, and said means including a member spaced a predetermined distance from the bottom to form a tucking-in edge as described.



1,340,666. GAS-STOVE. HENRY W. O'DOWD, Jersey City, N. J., assignor to William M. Crane Company, a Corporation of New York. Filed June 1, 1918. Serial No. 237,706. 2 Claims. (Cl. 126—214.)



1. A stove including a frame comprising oppositely disposed side and end sections, stiffening members disposed between the sections, burners associated with said stiffening members, a plurality of spaced-apart bars arranged in approximate parallelism longitudinally of the frame and supported at their opposite ends on certain of the sections, the top edges of the bars being in the same plane and above the plane of the sections upon which they rest at their ends, and a plurality of extensions on the other ends of said bars disposed in angular relation thereto and projecting in the direction of the burners whereby, when the top is covered by a cooking utensil, they deflect products of combustion outwardly between the bars which constitute, with the cooking utensil, channels to guide the heat currents toward the end of the sections.

1,340,667. RAILWAY-CAR-ROOF CONSTRUCTION. SPENCER OTIS, Chicago, Ill. Filed Nov. 17, 1917. Serial No. 202,472. 7 Claims. (Cl. 105—377.)



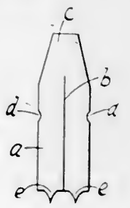
1. In a railway car having a permanent roof, the combination of a roof frame member, a door pivotally connected thereto for a downward movement into the car whereby the car may be loaded, and a locking member normally for holding the door in one of its positions.

1,340,668. AUTOMATIC ELECTRIC SWITCH OR CIRCUIT-CONTROLLING MECHANISM FOR ELECTRIC FLUID-HEATERS. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 12, 1919. Serial No. 303,768. 22 Claims. (Cl. 219—39.)
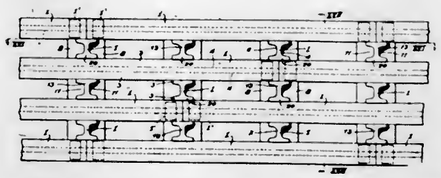


1. In a device of the character stated, a casing, means within said casing for effecting the closing of an electric circuit by the pressure of the incoming liquid to be heated; the contacts for closing the electric circuit being so positioned as to be always out of contact with the incoming liquid, and spring actuated means for effecting the opening of said circuit when the flow of the incoming liquid is checked.

1,340,669. SHOE-LACE TIP. JOSEPH PAVELKA, St. Louis, Mo. Filed Sept. 2, 1919. Serial No. 321,057. 4 Claims. (Cl. 24—143.)



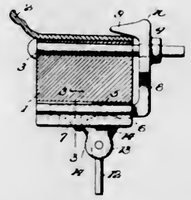
3. A resilient shoe lace tip formed of a single piece of resilient sheet metal bent to form an elongated tubular body, said body being split lengthwise to form a pair of resilient legs, lace engaging hooks on said legs, and there being an opening between the edges of said legs, which opening is adapted to receive a spreading tool.

1,340,670. RETAINING-WALL STRUCTURE. WILLIAM E. PEASE and NOAH H. SULOFF, Cleveland, Ohio, assignors of one-third to William H. Evers. Filed June 12, 1919. Serial No. 303,552. 17 Claims. (Cl. 61—47.)



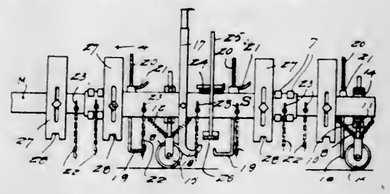
1. In a retaining wall, the combination of interlocking longitudinal stretchers and transverse headers, said stretchers and headers being similarly shaped but disposed in dissimilar positions in the wall; and pillow blocks interlocking with said stretchers and headers, forming flexible joints.

1,340,671. DEMOUNTABLE RIM. JAMES S. PIERCE, Dunkirk, N. Y. Filed Feb. 8, 1919. Serial No. 275,772. 2 Claims. (Cl. 152—21.)



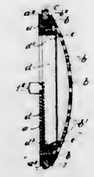
1. In a device of the character described, the combination with a wheel felly, of a channel plate secured to the inner side of said felly, and a bolt extending transversely through and beyond the felly, of a substantially L-shaped locking device having its body portion bored to receive said bolt, the longer lateral portion of said device being movable in said channel plate, and the shorter lateral portion adapted to engage a demountable rim, and means for holding said device in locking position.

1,340,672. TRANSPORTATION-TRUCK. EDWARD G. PRUISMANN, Webster City, Iowa. Filed Nov. 12, 1919. Serial No. 337,459. 6 Claims. (Cl. 280—61.)



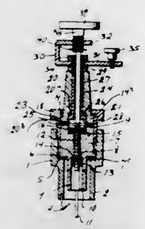
6. A transportation truck for a harrow comprising a portable frame, means carried thereby for suspending the harrow from the frame, and vertically adjustable plates carried by the harrow for movement in a vertical direction, the lower end portions of the plates having notches adapted to receive a portion of the harrow and whereby said plates hold the suspended harrow against swinging movement.

1,340,673. VENTILATOR. JOHN JAMES AUGUSTUS ROE, Manchester, England. Filed June 5, 1918. Serial No. 238,259. 5 Claims. (Cl. 98—27.)



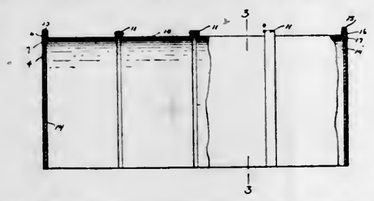
5. In a ventilator the combination of outer and inner members having apertures therein engaging respectively the outer and inner walls of the chamber to be ventilated, the two members having a screw-threaded connection, of a semi-rotary disk valve mounted between said outer and inner members, a bearing for said disk consisting of an annular flange, a spring surrounding said annular flange and urging said disk valve against said inner member, and means for operating said disk valve.

1,340,674. SPARK-PLUG. ERNEST ROGERS, Cleveland, Ohio. Filed July 30, 1919. Serial No. 314,236. 7 Claims. (Cl. 123—169.)



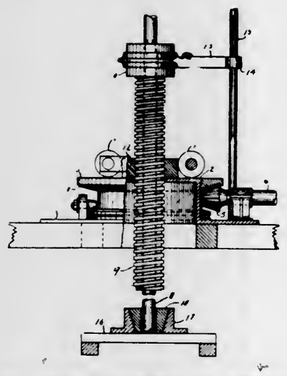
1. In a spark plug, the combination with a spark plug casing for engagement with the wall of the combustion chamber of the motor, of a porcelain electrode holder mounted in said casing, an electrode mounted in said porcelain holder, the lower end of the casing having a sparking terminal to coöperate with the lower end of said electrode, a second porcelain electrode holder super-imposed and in contact with the first holder, means on said casing to hold the two porcelain holders in position, guiding means in the second porcelain holder, a second electrode mounted in the guiding means and having means whereby the second electrode may be adjusted relatively to the first electrode, and a conductor plate carried by the guide means and being engaged by the second electrode.

1,340,675. ANNEALING-BOX. HARRY B. ROSE and WALTER B. ENCK, Buffalo, N. Y. Filed June 30, 1919. Serial No. 307,772. 7 Claims. (Cl. 263—49.)



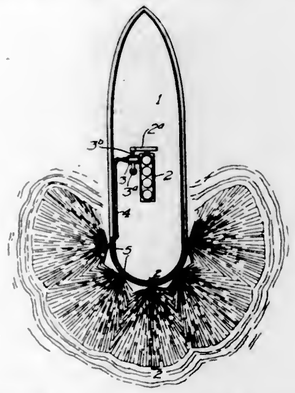
1. As an article of manufacture, an annealing box having a body formed of one piece of sheet steel, and having open ends, a plurality of reinforcing corrugations formed in the body, and heads secured in the open ends of the body.

1,340,676. PIPE-PULLER. JOHN T. SIMMONS, Brownwood, Tex., assignor of one-half to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Apr. 9, 1918. Serial No. 227,453. 6 Claims. (Cl. 254—30.)



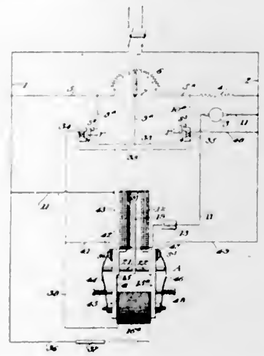
1. A pipe puller comprising an outwardly threaded sleeve through which the pipe to be pulled extends, removable slips, inserted between the sleeve and pipe and which operate to engage the sleeve with the pipe when the sleeve is elevated, means for limiting the movement of said slips in one direction, a rotatable nut on said sleeve, a rotary through which the nut is turned, and a standard upstanding from the rotary for holding the sleeve against rotation while the nut is being rotated.

1,340,677. MEANS AND METHOD OF CATCHING FISH. PAUL WHITEHEAD, San Diego, Calif. Filed Nov. 6, 1919. Serial No. 336,145. 6 Claims. (Cl. 43—4.)



2. In a means of the class described the combination with a fishing vessel and its engine, of a pump with its inlet communicating with the body of water in which the vessel is located, a conductor communicating with the outlet of said pump and secured around the portion of said vessel contiguous to where it is desired to fish and a plurality of suitably spaced sprinkling devices communicating with said pipe adapted to gently sprinkle water over the upper surface of the water surrounding a portion of said vessel whereby a gentle rain like agitation of the water is produced.

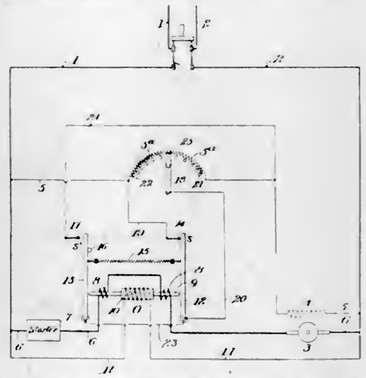
1,340,678. REGULATOR FOR ELECTRIC MOTORS. GEORGE H. WHITTINGHAM, Bancroft Park, Md., assignor to Monitor Controller Company of Baltimore, Baltimore, Md., a Corporation of Maryland. Filed Oct. 23, 1917. Serial No. 198,061. 8 Claims. (Cl. 171—229.)



4. The combination with an electric motor having armature and shunt field circuits, of a resistance in the shunt field circuit, a member for adjusting the amount of resistance in said field circuit, a relay having a normally closed switch for including said member in said field circuit, a relay having a normally open switch for shunting said resistance, main relay switches for controlling

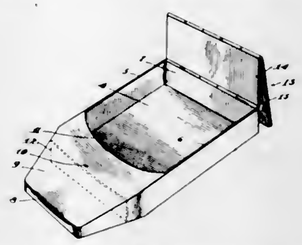
the circuits of said first mentioned relays, and means common to both of said main switches and controlled by the current in the armature circuit for vibrating the latter switches.

1,340,679. REGULATOR FOR ELECTRIC MOTORS. GEORGE H. WHITTINGHAM, Bancroft Park, Md., assignor to Monitor Controller Company of Baltimore, Baltimore, Md., a Corporation of Maryland. Filed Feb. 1, 1917, Serial No. 146,006. Renewed Mar. 26, 1920. Serial No. 369,028. 2 Claims. (Cl. 172—179.)



1. The combination with an electric motor having a shunt field winding, of a resistance in the field circuit, a member for regulating the amount of resistance in said circuit, a normally closed relay switch for including said member in said circuit, a normally open relay switch for shunting said resistance, a polarized armature adapted to actuate either of said switches, and means for actuating said polarized armature comprising a coil included in the armature circuit of the motor.

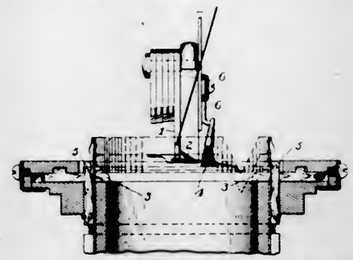
1,340,680. BEDPAN. CARRIE F. ZIMMERMAN, Taft, Calif. Filed Apr. 21, 1919. Serial No. 291,719. 3 Claims. (Cl. 4—19.)



1. A bed-pan comprising a substantially rectangular pan body wedge-shaped in longitudinal section, an inclined top wall at the convergent end of the pan forming a back support, a plate hinged to the rear edge of the pan, means for holding said plate in an upwardly extending position, and a second plate hinged to the first named plate forming therewith a cover for said pan body.

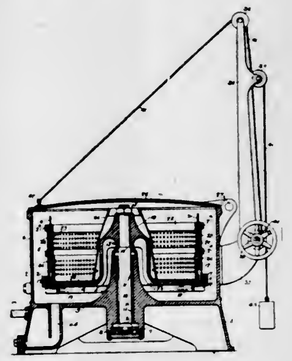
1,340,681. ANTI-THREAD-BALLOONING DEVICE FOR KNITTING-MACHINES. ALBERT M. PIGEON, Norristown, Pa., assignor to Wildman M'f'g Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1918. Serial No. 214,155. 5 Claims. (Cl. 66—12.)

1. In a circular spring needle knitting machine having independently movable needles, means to guide the yarn directly and close to the needles without sinking it between them, means to actuate the needles to draw loops of yarn into the fabric, and an anti-ballooning device located between the yarn guide and the point where the needle beards take the yarn, said device having a surface to extend transversely of the needle stems and having a wiping effect across the said stems to press and smooth



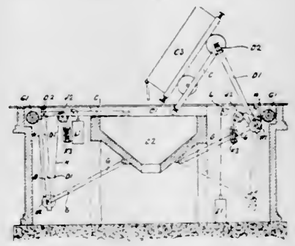
the yarn on the stems and yielding for the introduction of the yarn and automatically permitting its removal when lifted, substantially as described.

1,340,682. CENTRIFUGAL MACHINE FOR SEPARATING OIL FROM CHIPS. JOHN W. PITTOCK, Philadelphia, Pa. Filed Oct. 14, 1918. Serial No. 257,950. 2 Claims. (Cl. 210—73.)



1. In a machine for separating oil from metal chips and like material, the combination of a casing having an integral central post; a shaft mounted in the post; a perforated cage mounted on the central post and secured to the shaft; means for rotating the cage; a perforated basket removably located within and supported by the cage; bails pivoted to the basket; and means for engaging the bails to lift the basket out of the cage.

1,340,683. CONNECTION WITH APPARATUS FOR TIPPING WAGONS. WILLIAM REID, Hamilton, Scotland. Filed Oct. 21, 1919. Serial No. 332,350. 3 Claims. (Cl. 214—49.)



1. Apparatus for tipping wagons comprising a platform pivoted at one end, a vertically movable hoisting beam pivoted at its upper end to the opposite end of the platform and extending substantially at right angles thereto at the beginning of the lift, a head on the beam capable

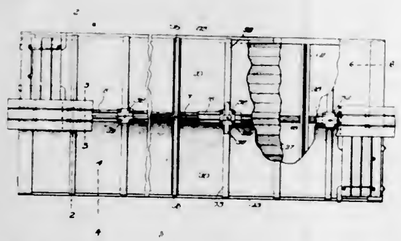
of engaging with the rear axle of the wagon, guide rods means hinged to the lower end of the beam, its other end being pivoted on a fixed center, a winding drum and means, passing therefrom over pulleys, to raise and lower the beam and platform, as described.

1,340,684. BRACKET. JOEL H. ROGERS, Jacksonville, Fla. Filed June 11, 1919. Serial No. 303,401. 1 Claim. (Cl. 156—23.)



A device of the character described comprising, a pair of bars having their inner portions cut away to provide reduced inner portions arranged in superposed relation, the lower reduced portion having its lower edge serrated, plates secured to the opposite sides of the upper reduced portion and extending downwardly therefrom to receive therebetween the lower reduced portion, a lever disposed beneath the lower reduced portion between said plates and pivoted thereto and having a serrated head engaging said lower serrated edge, flanged plates carried by the outer ends of the bars and provided with means for engaging the window frame, curtain pole brackets carried by the flanged plates, and shade supporting brackets adjustably mounted upon the flanged plates.

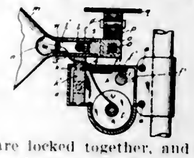
1,340,685. CAR-ROOF. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed July 25, 1918. Serial No. 246,632. 10 Claims. (Cl. 108—5.4.)



1. In a metal car-roof, in combination: roof-sheets disposed on opposite sides of the ridge of the roof and each having along its ridge-end a flange that is upwardly bent and inwardly rebent and shouldered, the free edge of the shouldered portion extending inward over the body of the sheet; and a ridge-cap of inverted channel form with outwardly extending and inwardly rebent flanges along each edge of the channel, the channel being adapted to overlie and engage the faces of the aforesaid shoulders of the roof-sheet flanging, and the rebent edge-flanges of the channel being hooked freely over the aforesaid extended free edges of the roof-sheet flanging; whereby the ridge-cap retains the opposite roof-sheets from displacement toward the eaves of the roof and at the same time forms with the roof-sheet flanging an interlocking connection that permits free shifting of the sheets toward the ridge of the roof; substantially as specified.

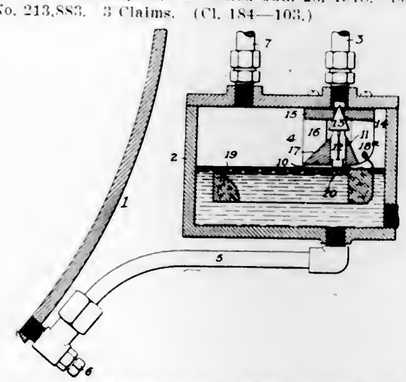
1,340,686. DEMOUNTABLE LAMP BRACKET FOR AUTOMOBILES. WILLIAM W. SABIN, Portland, Oreg. Filed May 2, 1919. Serial No. 294,325. 6 Claims. (Cl. 240—7.)

1. A lamp bracket comprising two parts hinged together, each part provided with half of a clamping neck for affixing to a support, a lamp post removably and rotatably mounted in one bracket part, means for locking the bracket parts together, means operated by said locking means preventing the removal of the lamp post while the



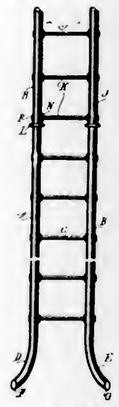
bracket parts are locked together, and means for holding the lamp post against rotation.

1,340,687. OILING SYSTEM. CHARLES FREDERIC SCHELL, Philadelphia, Pa. Filed Jan. 26, 1918. Serial No. 213,883. 3 Claims. (Cl. 184—103.)



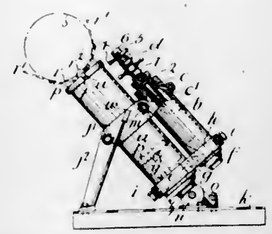
3. In an oiling system for internal combustion engines, the combination of a crank casing adapted to contain oil and having an outlet for the delivery of oil for lubricating purposes, and oil receptacle adjacent the crank casing, a pipe connecting the lower portion of the oil receptacle with the lower portion of the casing, a pipe connecting the top of the oil receptacle with the upper portion of the casing; said pipes providing for circulation when the engine is in operation, a pipe for feeding oil to the oil receptacle to maintain the level of oil within the same and within the casing, a float valve for controlling the flow through said casing, a block carried by the oil receptacle in which said valve is movable; said block having draining sides for the inflowing oil and the valve having a head diverting the oil to said draining sides.

1,340,688. SECTIONAL TUBE-LADDER. JOHN A. THOLLANDER, Piedmont, Fla. Filed Dec. 15, 1919. Serial No. 344,824. 4 Claims. (Cl. 228—55.)



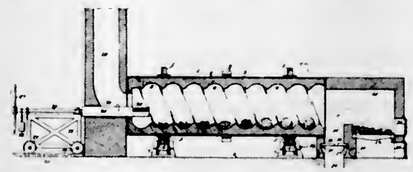
1. In a sectional tube ladder, the combination with tubular uprights, of rungs comprising tubes passing through the uprights and having their ends expanded on the outer sides of the uprights, the said tubular rungs having also expanded portions arranged against the other sides of the said uprights whereby the rungs are secured against endwise displacement.

1,340,689. GUN FOR DISCHARGING PROJECTILES BY GASES SUPPLIED THERETO UNDER PRESSURE. TOM THORNYCROFT and JOHN EDWARD THORNYCROFT, Westminster, England. Filed Dec. 9, 1918. Serial No. 265,920. 18 Claims. (Cl. 89—7.)



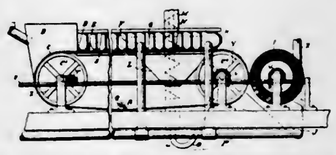
1. A gun adapted to throw a depth charge, comprising a gun barrel, a gas receiver connected at its rear end to the rear end of said gun barrel by a connecting passage of less cross sectional area than said receiver and said gun barrel, a charge container having a restricted outlet in communication with said gas receiver so that a combustible charge in said container can be burnt under high pressure to generate gases under high pressure and admit such gases to the gas receiver at a reduced pressure and to the gun barrel at a still lower pressure, means for supporting the gun barrel in position for use, a plunger fitting the bore of the gun barrel and free to be thrown out of and away from the gun barrel by gases under pressure admitted to the rear end of the gun barrel and means carried by the outer projecting end of the plunger adapted to support a depth charge in position to be thrown.

1,340,690. PROCESS OF MAKING PUDDLE-BALLS AND FURNACE THEREFOR. FERDINAND F. WAECHTER, Philadelphia, Pa. Filed Feb. 6, 1919. Serial No. 275,376. 6 Claims. (Cl. 263—33.)



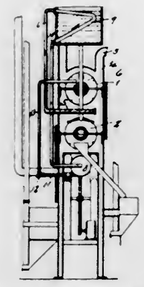
1. The process herein described of making puddle balls from scrap material, said process consisting, essentially, in supplying a furnace with a series of charges of scrap material and simultaneously progressively feeding the series of charges through the furnace while being subjected to a temperature sufficient to cause the particles to become sticky and to form into balls, and successively discharging the balls of said series.

1,340,691. COTTON-GIN. ROBERT S. WHEELER, Grenloch, N. J. Filed Apr. 11, 1919. Serial No. 289,250. 10 Claims. (Cl. 13—9.)



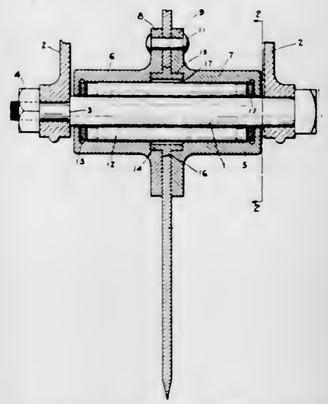
10. In combination an endless moving ginning element, means for feeding cotton to be ginned thereto, a plurality of successively located stationary arresters arranged in proximity to the upper surface of said element and means for maintaining the surface of said element in proper relation to the arresters.

1,340,692. COFFEE-ROASTING MACHINE. FREDERICK A. WILCOX and EDWARD L. MCGRORY, Spokane, Wash. Filed Aug. 5, 1919. Serial No. 315,383. 2 Claims. (Cl. 34—5.)



2. The combination with the roasting machine, of a condenser tank above the machine and an air circulating fan below the roasting part of the machine, a suction pipe from the fan to the condenser and provided with a bend in the condenser and said pipe extending from the condenser to the roasting chamber and provided with an inlet nozzle therein, and a return pipe from the fan to the roasting machine and said return pipe having a portion below the fan and means for disposing of water of condensation in said portion.

1,340,693. ROLLING-DISK-COLTER HUB. WILLIAM R. WILSON, Terre Haute, Ind. Filed Jan. 15, 1919. Serial No. 271,227. 5 Claims. (Cl. 64—39.)

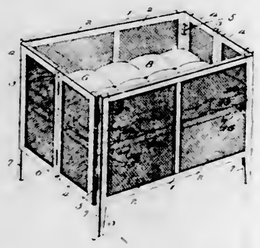


1. A hub structure, including a pair of hollow members having recesses at their meeting ends, a coupling adapted to fit in said recesses and alining the hub members an axle extending through said hub structure, and means on the coupling member for distributing lubricant over said axle.

1,340,694. CHILD'S FOLDING COMBINED BED AND COOP. JASPER STANLEY WINGET, York, Pa. Filed Jan. 7, 1919. Serial No. 270,036. 3 Claims. (Cl. 5—58.)

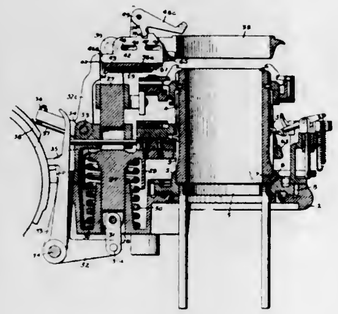
1. A closely folding combined bed and playing structure, comprising two side frames and two pairs of end frames, the end frames hinged together to fold inward and their outer ends hinged to the end frames to fold inward to

permit the end frames and side frames to lie against one another in parallel planes, a rigid detachable rectangular bottom having one side solid and a wire mattress at its opposite side supported away from its solid side, the bottom having outwardly projecting supporting pins and the frames having horizontal ledges adapted to receive the pins when the frames are extended to rectangular posi-



tions, a removable mattress having inwardly extending substantially L-shaped hooks to engage the edges of the side frames when applied to their opposite outer sides when they are in folded positions, and a strap for encircling the frames, mattresses and bottom when in their collapsed position.

1,340,695. KNITTING-MACHINE. ELMER U. AMES, Philadelphia, Pa., assignor to H. Brinton Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1915. Serial No. 60,300. 17 Claims. (Cl. 66—12.)



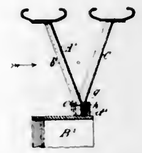
1. The combination in a knitting machine of a needle support; needles therein; a latch ring; a jack; a finger for feeding yarn to the needles, actuated by said jack; and a lever normally disconnected from the jack having an actuating surface perpendicular to the line of movement of the jack for actuating the same, the jack, the finger and the lever all being movable in the same plane.

10. The combination in a knitting machine of a needle support; a cam ring; a yarn guide; and means for simultaneously and automatically moving the cam ring and yarn guide relatively to the needle support at predetermined times during operation of the machine.

1,340,696. DYESTUFFS AND PROCESS OF MAKING SAME. ANDREA ANGEL, deceased, Oxford, England, by Mary Letitia Angel, executrix, Oxford, England. Filed July 16, 1918. Serial No. 245,166. 6 Claims. (Cl. 23—24.)

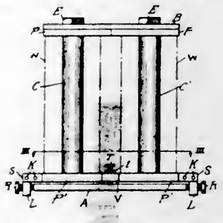
4. The process of preparing parazene which comprises heating para-halogen amido benzene with zinc chlorid and oxidizing the reaction product.

1,340,697. ROAD-WHEEL OF THE SHEET-METAL TYPE. HERBERT AUSTIN, Bromsgrove, England. Filed Feb. 24, 1920. Serial No. 360,857. 3 Claims. (Cl. 21—69.)



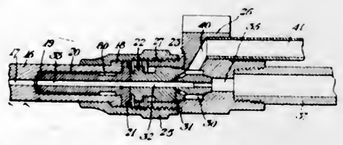
1. A vehicle wheel comprising a hub having a flange provided with a circular series of similar corrugations forming beveled angular ribs and flaring angular recesses, said ribs and recesses having parallel plain portions at the inner and outer faces of the flange, a disk having a central opening adapted to fit over said hub and provided with a circular series of radial corrugations constituting spoke formations, said corrugations at their inner ends surrounding said hole and forming beveled angular ribs with plain portions and flaring angular recesses with plain portions fitting with a wedging action on said ribs and recesses of said flange, and fastening means extending through said plain portions of said ribs and recesses and connecting said hub and disk.

1,340,698. ELECTROMAGNETIC DEVICE. CHARLES W. BURROWS, Washington, D. C. Filed Apr. 27, 1917. Serial No. 164,892. 7 Claims. (Cl. 175—336.)



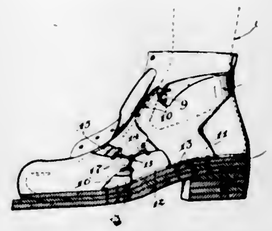
1. An electromagnet comprising two magnetizable cores each provided with integrally formed end flanges, a back strap bridging said cores at one end, a coil surrounding each core between its flanges, a non-magnetizable strip connecting the other ends of said cores and having a portion thereof disposed between the flanges at such ends, to maintain such flanges in proper spaced relation, and an armature pivotally mounted on said strip.

1,340,699. OXYHYDROGEN CUTTING-TORCH. CLARENCE J. COBERLY, Los Angeles, Calif., assignor to California Burdett Oxygen Company, a Corporation of California. Filed Apr. 1, 1919. Serial No. 286,757. 2 Claims. (Cl. 158—27.4.)



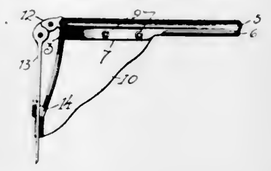
1. A mixer for an oxy-hydrogen torch comprising a body having a seat therein, a mixing plug coöperating with said seat, said body and plug having mutually cooperating openings by which a gas may be delivered to a central mixing opening therein, an explosion plug having a central opening coöperating with said central mixing opening, a pipe into which said explosion plug projects, a head formed on said pipe, a flange formed on said explosion plug of approximately the same outside diameter as said head, and means for simultaneously forcing said head against said flange and making a gas tight seal between said pipe and said body.

1,340,700. BRACE FOR CORRECTING FOOT-ANGLES. EMIL DAHL, Minneapolis, Minn. Filed June 23, 1919. Serial No. 306,212. 5 Claims. (Cl. 128—80.)



1. A brace for the purpose set forth, comprising a sole member applicable to the inner sole of a shoe, an adjustable ankle strap attached to the sole member, and an anchor strap for connecting the ankle strap to the shoe upper forward of said ankle strap.

1,340,701. EYE-PROTECTOR. GEORGE H. DAY, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 25, 1917. Serial No. 144,404. 4 Claims. (Cl. 2—149.)



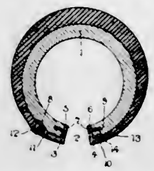
2. In an eye protector, the combination with a lens, of a retaining rim therefor, having a groove to receive the lens, and a rearwardly extending portion, said portion having a plurality of indentations formed in the rear face thereof, the edge of the protector between certain of the indentations being rolled to form a face engaging seat, and between certain of the other indentations being extended to form a screen receiving flange, an end piece carried by the rim and disposed adjacent one of the indentations in the rear edge thereof, and a temple carried by the end piece and adapted to fold into the indentation in the flange, substantially as illustrated.

1,340,702. INNER TUBE AND METHOD OF MAKING THE SAME. HENRY DECH, Trenton, N. J., assignor to Mercer Tire Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 14, 1918. Serial No. 249,808. 6 Claims. (Cl. 154—14.)



1. An inner tube divided circumferentially along its inner wall, a clamping ring located within the tube and adapted to engage the edges of said inner wall for holding them together to form an air-tight tube, and a locking ring adapted to be seated between said edges to force them into tight engagement with the clamping ring.

1,340,703. INNER TUBE AND METHOD OF AND APPARATUS FOR MAKING THE SAME. HENRY DECH, Trenton, N. J., assignor to Mercer Tire Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 14, 1918. Serial No. 249,809. 6 Claims. (Cl. 154—5.)



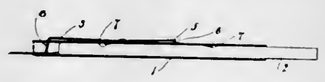
1. Method of making an inner tube comprising the following steps: first, building up on an open bellied core a tube having a slit in one of its edges and a projecting tongue on its other edge; second, vulcanizing the tube; third, removing the tube from the core; and finally sealing the opening in the belly of the tube by inserting the tongue into the slit.

1,340,704. INNER TUBE AND METHOD OF MAKING THE SAME. HENRY DECH, Trenton, N. J., assignor to Mercer Tire Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 14, 1918. Serial No. 249,810. 3 Claims. (Cl. 154—14.)



1. Method of making an inner tube comprising the following steps: first, building up on a suitable core an open bellied tube having one of its edges reduced in size and a slit in its other edge to receive the reduced edge; second, vulcanizing the tube; third, removing the tube from the core, and finally sealing the tube by inserting the reduced edge of the tube into the slit in the other edge.

1,340,705. NAIL-DRIVING IMPLEMENT. AUGUST J. DE LANDER, Spokane, Wash. Filed Aug. 11, 1919. Serial No. 316,728. 2 Claims. (Cl. 1—47.)

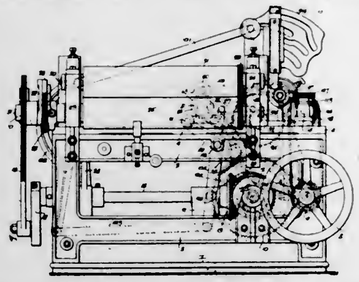


2. The combination with a slotted tubular casing V-shaped in cross section and forming a nail trough, and a two-notched driving bar within the casing, of a centrally-secured retaining spring on the outside of the casing having a hooked end projecting through the casing to engage either of said notches, the other end of the spring having a bent tongue with slanting faces overhanging the front open end of the casing to engage the walls of the trough, and said driving bar adapted to receive blows from a hammer to drive a nail, as described.

1,340,706. TUBE-MAKING MACHINE. STEPHEN DERINGER, Camden, N. J., assignor to Emily K. Dietz, Philadelphia, Pa., trading under the firm-name of Dietz Machine Works. Filed Dec. 6, 1916. Serial No. 135,418. 11 Claims. (Cl. 164—49.)

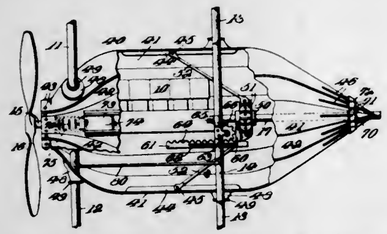
1. The combination of a supporting structure; a relatively fixed blade thereon; two holding devices for attaching said blade to said structure in either of two positions; a knife carrier; a second blade; two holding devices for mounting said second blade on said carrier in either of two positions to cause it to coöperate with said

fixed blade in either of its positions; means for actuating the knife carrier; and automatic sheet feeding means ad-



justable to deliver more material to the blades when these are in one position than when they are in the other position.

1,340,707. AIRPLANE. JOSEPH E. EATON, San Francisco, Calif. Filed Nov. 13, 1919. Serial No. 337,758. 22 Claims. (Cl. 244—31.)

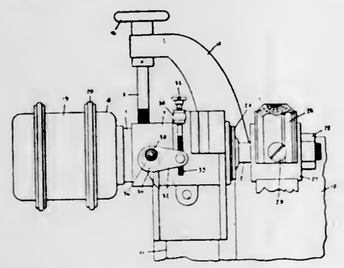


1. An airplane having independent of the aviator cab an expansible and collapsible casing surrounding an engine and adapted to form in expanded position means for protecting a workman from the wind of flying.

1,340,708. FERTILIZER AND PROCESS FOR THE MANUFACTURE OF THE SAME. MIKAL FJELLANGER, Hvalstad, near Christiania, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskap, Christiania, Norway. Filed Feb. 6, 1920. Serial No. 356,690. 5 Claims. (Cl. 71—9.)

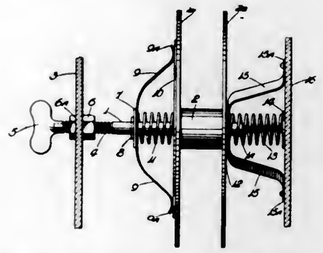
1. Fertilizer comprising urea nitrate and calcium carbonate.

1,340,709. SPINDLE ADJUSTMENT FOR MOTOR-DRIVEN MOLDERS. MONTE B. GATHMAN, Shelbyville, and ROBERT DAVY EAGLESFIELD, Indianapolis, Ind.; said Gathman assignor to Anton Vonnegut, Indianapolis, Ind. Filed Dec. 15, 1919. Serial No. 345,080. 5 Claims. (Cl. 144—130.)



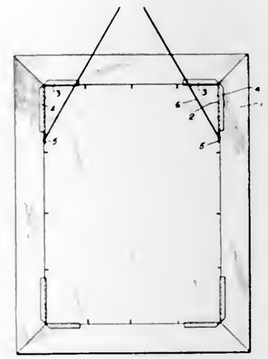
1. A spindle attachment for motor driven molders including a motor-head extension bearing having a motor mounted on one end thereof, through which said spindle extends, a mounting for supporting said bearing, and means for adjusting said bearing within said mounting for causing a fine adjustment of the spindle mounted therein.

1,340,710. FRICTION BRAKING MEANS FOR CINEMATOGRAPH-FILM SPOOLS. WALLACE ANDERSON GRAHAM, Gore, New Zealand. Filed Apr. 29, 1919. Serial No. 293,571. 6 Claims. (Cl. 242—75.)



1. A film spool, a spindle on which said spool is rotatably mounted, an adjustable spindle, braking means for one side of the spool carried by the spindle, and braking means for the other side of the spool mounted independently of the spindle.

1,340,711. COMBINATION HANGER AND FRAME-PROTECTOR. JACOB GREENWALD, New York, N. Y. Filed Aug. 6, 1919. Serial No. 315,728. 2 Claims. (Cl. 40—145.1.)

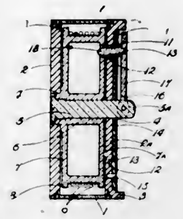


1. A combined hanger and frame protector comprising a body having sections extending at right angles to each other, each of said sections having apertures for receiving securing means, and an upstanding flange projecting at right angles to the body, one of said sections being formed with a projecting ear having an aperture for receiving a supporting cord.

1,340,712. WINDING-REEL. ARTHUR JOHN HARE, Dunedin, New Zealand. Filed July 17, 1919. Serial No. 311,440. 3 Claims. (Cl. 242—84.8.)

1. In a winding reel apparatus, the combination of a central spindle carrying a double sided reel in a cylindrical casing, one of the sides of the double sided reel being pierced by a hole, bearings in the ends of the said cylindrical casing member carrying the said spindle which projects through an end of the cylindrical casing, having a series of holes therein of the same radial distance as the hole in the adjacent side of the reel, a reversible lever pivoted to the projecting end of the spindle, and carrying a knob

provided at the free end of the lever at a radial distance from the center of the spindle equal to the radial distance therefrom of the hole in the reel side, and a retaining



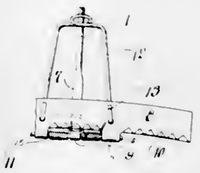
spring housed in the casing member, so as to engage with the knob when the lever is reversed and the knob entered through the hole in the casing member end.

1,340,713. PRINTED BOOK. HARRY WILLIAM HAIGHT, Princeton, N. J. Filed July 22, 1916, Serial No. 110,702. Renewed Mar. 24, 1920. Serial No. 368,316. 3 Claims. (Cl. 281—18.)



3. As an article of manufacture, a printed book having a plurality of superposed leaves, and frangible fastening means applied along the edges of the superposed leaves continuously across the top of the book from a point adjacent to the back to the upper outer corner and down along the outer edges to a point adjacent the lower outer corner and then along the bottom edges from a point adjacent the lower outer free corner to a point adjacent the back of the book.

1,340,714. BAG-HOLDER. JOHN L. HERRMAN and GEORGE E. HERRMAN, Mica, Wash. Filed Nov. 15, 1919. Serial No. 338,150. 3 Claims. (Cl. 83—26.)



1. A bag holder comprising a bail having a spring hinged holding plate at each end, said plates having teeth to engage a bag, and a lever secured to the plate for operating the same and also adapted to act as a stop for limiting the spring pressure of the holding plate, whereby the plates may be released from engagement with the bag.

1,340,715. LENS. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 9, 1919. Serial No. 343,501. 4 Claims. (Cl. 88—54.)



1. A blank for a plurality of lenses, a line of cleavage surrounding the center thereof, and cleavage lines extending outwardly from the central cleavage line.

1,340,716. ELECTRIC CIGAR-LIGHTER, PIPE-LIGHTER, AND THE LIKE. REGINALD JOHN HAMILTON HILL, London, England, assignor of one-half to Max John Railing, London, England. Filed Sept. 16, 1919. Serial No. 324,213. 3 Claims. (Cl. 219—32.)



1. An electric lighter for cigars, pipes, and the like comprising a conical shaped hollow support, leads in said support, holes in said support, resistance wire in said support, means whereby said support can be connected to a lamp holder, a tip, means for detachably securing said tip to said support, resistance wire on said tip, and contacts on said tip, and leads connecting said contacts and resistance wire.

1,340,717. CAM AND PUSH-ROD MACHINE. JOSEPH HOLLE, Newark, N. J. Filed Jan. 6, 1919. Serial No. 269,967. 5 Claims. (Cl. 123—90.)

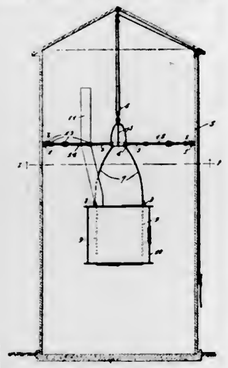


1. A mechanism of the character described, comprising a push rod having a cam engaging face at one end, and an inclined face on the side of the rod at its end, and a cam adapted to first engage the end face of the rod and then ride over said inclined face of the rod.

1,340,718. SILO-HEATER. ANDREW J. JOHNSON, Long Prairie, Minn. Filed Dec. 17, 1918. Serial No. 267,143. 1 Claim. (Cl. 237—50.)

A heater for silos including arcuate rods, connections between the ends of the rods, said rods and connections forming an outer ring, an inner ring, radial rods connecting the inner and outer rings, a stove suspended from the inner ring, supporting means connected to the inner

ring, an apertured plate secured to certain of the radial rods, a smoke pipe extending through said plate and from the stove, and a cover mounted on the radial rods and



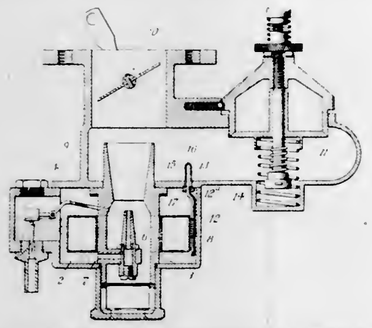
connected with the outer ring and the inner ring, said inner ring forming an opening for supplying air downwardly to the stove to support combustion.

1,340,719. VALVE. CHARLES H. KING, Ithaca, N. Y. Filed Jan. 31, 1919. Serial No. 274,276. 3 Claims. (Cl. 137—53.)



1. In a controlling valve for tanks, a tank having an opening in its top, an air pipe slidable in the opening, the said pipe having an open outer end and ports near the inner end communicating with the interior of the tank and the interior of the pipe, the member of the tank having the opening being operative to seal the said ports when the pipe slides outwardly, and a combination float and weight on the inner end of the air pipe, having a recess in its inner end forming an air chamber.

1,340,720. CARBURETER. JAMES A. KLINE, York, Pa., assignor, by mesne assignments, to L. V. Flechter & Company, a Corporation of New York. Filed Jan. 23, 1913. Serial No. 743,762. 5 Claims. (Cl. 261—41.)

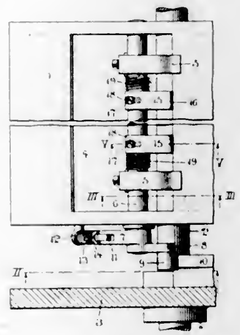


5. In a carbureter the combination of an outlet adapted to be connected to the intake manifold of the engine, an outlet controlling throttle valve adapted to be manually operated, a main air intake in line with said outlet, a carbureting tube between said outlet and said main air inlet and in line therewith, a primary fuel nozzle adjacent to the base of said carbureting tube, an auxiliary air passage entering the side of the main air passage adjacent to the outlet of said carbureting tube, a puppet valve controlling the opening to said auxiliary air passage, means for adjusting the resistance to opening of said puppet valve, a secondary fuel nozzle opening in said auxiliary air passage below the top of said carbureting tube, a fuel chamber common to both of said fuel nozzles and means for keeping the fuel therein at a constant level.

1,340,721. PROCESS FOR DETANNING CHROME-LEATHER. MORRIS CHARLES LAMB, London, England. Filed June 20, 1919. Serial No. 305,624. 3 Claims. (Cl. 87—7.)

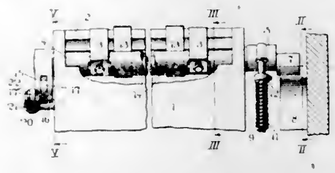
1. A method of detanning chrome leather which consists in immersing the leather in a solution of an organic acid containing at least two hydroxyl groups until the chromium compounds are rendered soluble and in separating the solution from the residue.

1,340,722. SHEET-REGISTERING DEVICE. HENRY E. LEONARD, Brooklyn, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 15, 1917. Serial No. 207,338. 2 Claims. (Cl. 271—53.)



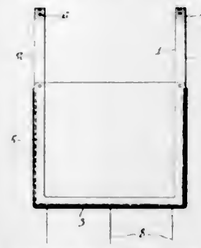
2. A rotary sheet carrier, a rocking gripper rod, grippers fixed to rock therewith, registering fingers loosely mounted on said rod and having a lost motion connection therewith, coil springs surrounding said rod and having their ends engaged with the grippers and the fingers respectively, tending to hold the fingers at the limit of their forward or registering movement, to permit the grippers to close after the fingers have reached the limit of their forward movement.

1,340,723. SHEET-REGISTERING DEVICE. HENRY E. LEONARD, Brooklyn, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 15, 1917. Serial No. 207,339. 15 Claims. (Cl. 271—53.)



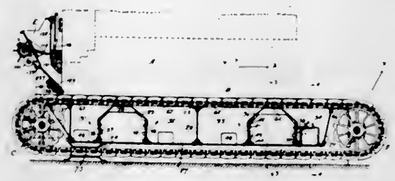
3. A rotary sheet carrier and devices carried thereby rocking on different axes, operating to end register and grip the sheets, said devices having a yielding lost motion connection.

1,340,724. RAILROAD-PASSENGER-TICKET HOLDER. WILLIAM LEVY, Paterson, N. J. Filed Dec. 6, 1919. Serial No. 343,122. 4 Claims. (Cl. 40—16.)



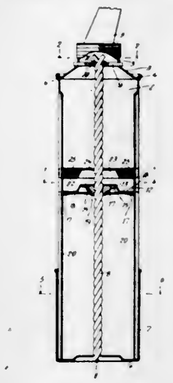
1. A device of the character described including means for holding a ticket, said means being provided with a longitudinally extending pin at the lower portion thereof, and with a longitudinally extending arm at the upper portion thereof, said arm being curved to conform to the curvature of a seat-back.

1,340,725. FURNACE. WILLIAM LLOYD, Hazleton, Pa. Filed May 4, 1916. Serial No. 95,450. 28 Claims. (Cl. 110—40.)



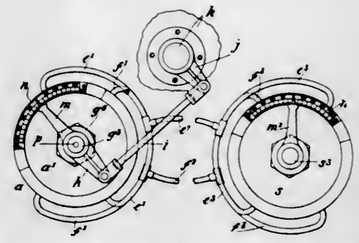
7. In combination with a traveling grate, a subjacent wind chest having longitudinal partitions, and grate bars having ribs extending in the direction of travel of the grate and bearing on said partitions to prevent leakage thereover between longitudinally adjacent blast areas of the fuel bed.

1,340,726. GREASE-GUN. JOHN G. MACGREGOR, Pequannock, N. J. Filed Sept. 29, 1919. Serial No. 327,115. 7 Claims. (Cl. 221—79.)



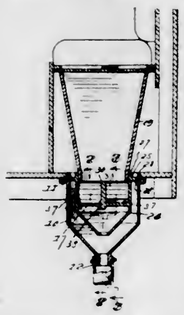
1. A grease gun comprising a receptacle having a helix extending therethrough, a piston device in said receptacle comprising a disk, means preventing rotation of said disk in said receptacle, a nut threaded on the helix, and a connection between said disk and nut preventing relative rotation in one direction but permitting it in an opposite direction.

1,340,727. TELEMOTOR. ROBERT MACGREGOR, Port-Glasgow, Scotland. Filed Aug. 6, 1918. Serial No. 248,653. 4 Claims. (Cl. 116—126.)



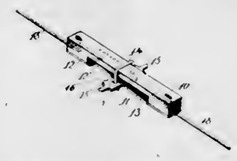
1. A telemotor with liquid as the actuating medium comprising a transmitter consisting of a cylindrical casing divided by partitions into two compartments each containing liquids, movable balanced double action vanes therein, a member common to the vanes for moving the same, a receiver, compartments in the receiver, means establishing communication for liquid between the compartments of the transmitter and the receiver, and an indicator on the receiver operable by movements of the liquid in the transmitter.

1,340,728. SANDING DEVICE. PERCIVAL W. MILES, Wilkes-Barre, Pa. Filed Feb. 26, 1920. Serial No. 361,417. 3 Claims. (Cl. 291—11.)



1. In a sand blower, a casing having means of attachment to a car floor, a hollow member suspended within the said casing, the said hollow member having compartments for the reception of sand, a valve for controlling one of said compartments, means for actuating the said valve, a floor extending part way across the other compartment, an inclined floor extending over the opening of the interrupted lower floor, an air delivery pipe extending into the last mentioned compartment in the space above the first mentioned floor and below the space at the end of the inclined floor.

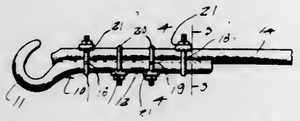
1,340,729. FIRE-ALARM SWITCH. GUY F. MILLER, Traverse City, Mich. Filed May 27, 1919. Serial No. 300,068. 2 Claims. (Cl. 200—142.)



2. In a safety switch, the combination of a body of insulation, a pair of switch blades secured to remote portions of the body, said blades having ends adapted to engage

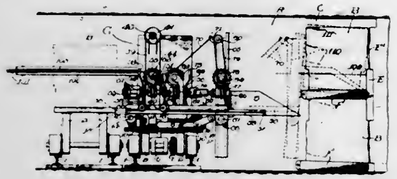
each other and one of the blades being resilient, a clip embracing the body and the resilient blade, a retainer of inflammable material coöperating with the clip to hold the resilient blade spaced from the other blade whereby when the retainer becomes ignited it will burn and release the resilient blade permitting it to engage the other blade and establish a circuit through them, and connector wires extending through the blades and the body and serving thereby to secure the blades to the body and establish electrical connection between the blades and any devices to which the connectors may be secured.

1,340,730. ROPE AND CABLE ATTACHMENT. THOMAS C. MOORE, San Francisco, Calif. Filed Oct. 18, 1918, Serial No. 258,678. Renewed Oct. 9, 1919. Serial No. 329,642. 3 Claims. (Cl. 24—135.)



3. A device of the character described comprising a hook; a shank extending rearwardly of the hook and having a longitudinally extending cable receiving groove in its inner face, said shank being semi-circular in cross section and having a pair of transversely extending grooves in its end portions; a pair of U-bolts having their bight portions disposed in said grooves and rigidly secured to said shank, said shank having pairs of vertically disposed grooves in its inner portion; a second pair of U-bolts having their arms disposed in said vertical grooves and having their bight portions surrounding the outer side of the cable; apertured plates arranged over the end portions of the arms of the U-shaped bolts; and nuts having threaded engagement with the end portions of the U-bolts.

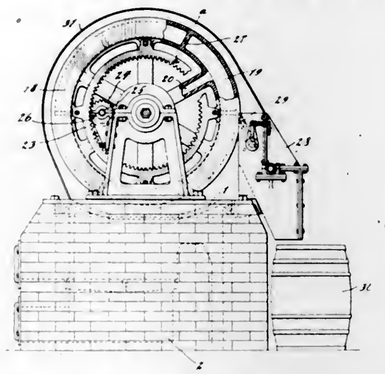
1,340,731. MINING AND LOADING MACHINE. EDMUND C. MORGAN, Chicago, Ill. Filed Aug. 4, 1913, Serial No. 782,766. Renewed June 17, 1918. Serial No. 240,524. 50 Claims. (Cl. 262—12.)



47. In a mining and loading machine, the combination with a supporting frame comprising a chute open at its forward end, of a reciprocable carrier movable back and forth from a position at the forward portion of said chute, means for dislodging material from a mine wall in advance of said frame, and means for operating said carrier for receiving the dislodged material directly from its position in the mine wall and transferring such material to the forward open end of said chute.

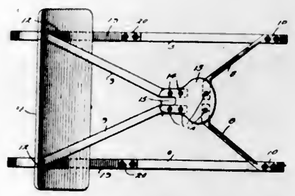
1,340,732. FLAKER. WILLIAM D. MOUNT, Lynchburg, Va. Filed Dec. 11, 1919. Serial No. 344,228. 9 Claims. (Cl. 83—91.)

2. In a flaker machine, the combination of a drum comprising a hollow flange, a bored hub, and a plurality of channels connecting the hollow flange with the bore of the hub, a stationary bearing shaft passing through the bore of the hub and having channels therein opening into the bearing surface at different angular positions around the shaft, whereby as the drum moves on said shaft, the



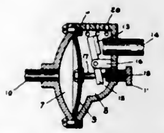
channels therein will be consecutively connected and disconnected with the channels in the shaft.

1,340,733. VEHICLE. LOUIS NUSSBAUM, Albany, N. Y. Filed Dec. 29, 1919. Serial No. 347,909. 4 Claims. (Cl. 280—12.)



3. A vehicle of the class described, including a single occupant supporting frame made of a plurality of upwardly presented skeleton members, arranged to support a seat with the frame members fastened thereto, said seat having a bifurcated crotch made to receive an impeller for the vehicle.

1,340,734. AUXILIARY AIR-INTAKE FOR INTERNAL-COMBUSTION ENGINES. PIATT M. ORLOPP, Indianapolis, Ind. Filed May 5, 1919. Serial No. 294,939. 2 Claims. (Cl. 123—124.)

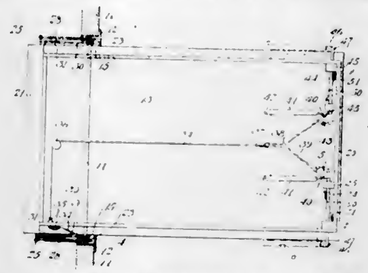


1. The combination with an internal combustion engine having a fuel intake, of an auxiliary means for supplying air to said intake, including a housing, an air passage connecting said housing and intake, a valvular member pivotally mounted in said housing for opening and closing said passage, yielding means for engaging the actuating end of said member for normally retaining said valve in closed position, and a diaphragm mounted in said housing having a projection thereon for engaging the actuating end of said member for causing said valve to open when the engine acquires a certain speed.

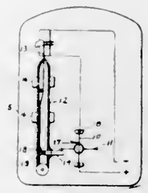
1,340,735. FOLDING BED. RESCUE B. PAGE, Los Angeles, Calif. May 22, 1918. Serial No. 236,063. 3 Claims. (Cl. 5—37.)

1. In a folding bed, a supporting structure, a bed pivotally mounted in said supporting structure, a pair of rods

mounted on the bed to move transversely and rotatably thereon, a leg connected to the outer end of each rod, and means connected to said rods and said supporting-structure to rotate and move said rods longitudinally to bring said legs in closed position within the side edges of said bed as the bed is folded.

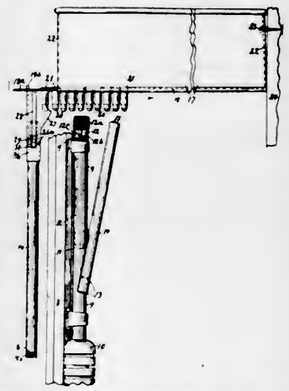


1,340,736. ELECTRIC SOLDERING. HAROLD K. PARSONS and HARRY H. STYLL, Southbridge, Mass. Filed Sept. 20, 1919. Serial No. 327,562. 13 Claims. (Cl. 219—27.)



1. Electric soldering apparatus including a heating circuit, a progressive on and off switch for controlling the flow of current through said circuit, and means for automatically operating said switch.

1,340,737. CARTRIDGE-TUBE FILLER. SIVIL PAULSON, St. Paul, Minn. Filed July 31, 1919. Serial No. 314,519. 1 Claim. (Cl. 86—47.)



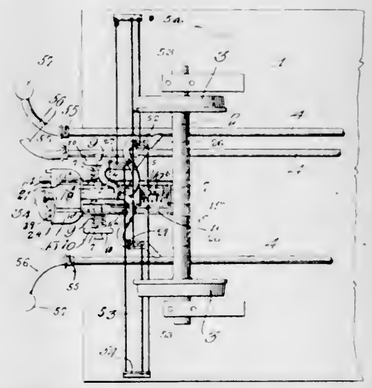
A device of the kind described, the same comprising a hopper with a narrow bottom projecting partly beyond the hopper and having a longitudinal slot for cartridges to drop through and be suspended by their rims upon the edges of the bottom; said projecting portion of the bottom having the slot enlarged so as to let the rims of the cartridge pass through it, a sleeve fixed in vertical position underneath said projecting end of the bottom and having two opposite side apertures, two spring arms fixed on the sleeve and having hooks entering said apertures and provided with inclined faces, a series of cartridge conveying tubes having each one end closed and the other end adapted to telescope with the lower end of the sleeve and spread the hooks by engaging their inclined faces, said spring arms adapted to automatically close the hooks into contact with the lowest cartridge in the sleeve and thereby prevent unwarranted escape of the cartridges from the sleeve, said sleeve having its upper end provided with an enlargement toward the hopper, said enlargement having in its upper portion an inlet notch for the cartridges and below said notch an inclined groove serving to guide the cartridges into the sleeve without allowing them to catch on the notched part of the sleeve.

1,340,738. PROCESS OF AND APPARATUS FOR CURLING HAIR. ARNAUD PAUSSER, Philadelphia, Pa. Filed July 20, 1916, Serial No. 110,336. Renewed Oct. 14, 1919. Serial No. 330,669. 19 Claims. (Cl. 132—19.)



1. In apparatus for curling hair, the combination of a shell, means for disposing a strand of crimped or curled hair within the same, means for sealing the ends of said shell to render the same leak-proof, means for applying moisture to said strand, and means for heating said moisture while said strand is in the crimped or curled position within the sealed shell.

1,340,739. COUPLING. MARCEL H. POIRIER, Woonsocket, R. I. Filed Dec. 22, 1917. Serial No. 208,467. 1 Claim. (Cl. 285—24.)



The combination with the air and steam pipes of a railway car, flexible hose secured to the ends of said pipes and carrying couplings, and a coupling head carried by each end of the car and mounted for yielding movements longitudinally and laterally with relation to the car, of

valved branch pipes communicating with said air and steam pipes inwardly of their ends, a chest carried by each coupler head, pipes slidably mounted in said chest and extending beyond the inner and outer walls thereof and provided at their outer ends with couplings, springs located in the chests and urging the slidable pipes outwardly, and flexible pipes communicating with said branch pipes and with the pipes carried by said chests.

1,340,740. COMPOUND-ENGINE GUIDE. FRANK G. PROCUNIER, De Soto, Ill., assignor of one-half to Roger Q. Kimmel, Elkville, Ill. Filed Mar. 1, 1919. Serial No. 280,172. 4 Claims. (Cl. 280—87.)



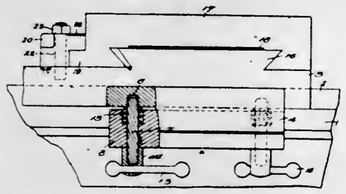
1. The combination with the stationary front bolster of a vehicle, and an axle pivoted thereto, of steering knuckles pivoted to the ends of the axle and operably connected to each other, an arm connected to the bolster, another arm carried by one of said steering knuckles, and coupling means between said arms at their free ends.

2. The combination with the stationary front bolster, the pivoted axles, and the chain and drum guides of a tractor engine, of steering knuckles pivoted to the ends of the axle and operatively connected to each other, an arm connected with the bolster, a guide device at the free end of said arm, another arm carried by one of said steering knuckles and slidable through said guide device, and springs associated with the last mentioned arm and bearing against said guide device at the opposite sides thereof.

3. The combination with the stationary front bolster of a tractor engine, and an axle pivoted thereto, of steering knuckles pivoted to the ends of the axle and operatively connected to each other, a guide arm swingably connected for vertical movement to the bolster, a U-shaped steering arm joined with one of the knuckles and having its free portion operatively connected with the outer end of the guide arm to insure the turning of the knuckles simultaneously with the turning of the axle.

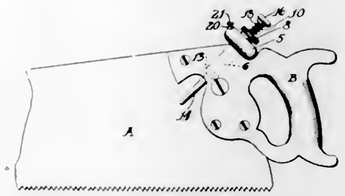
4. The combination with the stationary front bolster of a tractor engine, and an axle pivoted thereto, of steering knuckles pivoted to the ends of the axle and operatively connected to each other, a guide arm having its inner end pivoted for vertical movement upon the bolster, a U-shaped steering arm having one terminal joined with one of the knuckles and its free portion extending over the outer portion of the guide arm, an eye bolt carried by the outer end of the guide arm and through which the outer portion of the steering arm operates, spring tensioned means on the outer portion of the steering arm for coacting with the eye of the bolt from opposite sides in maintaining the guide arm and the steering arm in operable relation, and means for turning the axle to cause the guide arm and steering arm to swing the knuckles relative to the axle during the turning of the same.

1,340,741. MILLING-MACHINE ATTACHMENT. CHARLES F. SCHMELZER, Flint, Mich. Filed Apr. 27, 1918. Serial No. 231,136. 5 Claims. (Cl. 90—58.)



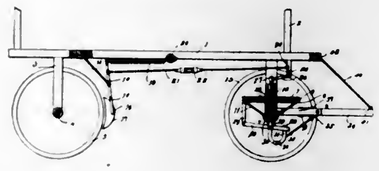
1. The combination with a milling machine having a stationary knee, a table slidable longitudinally thereon, an overlapping spaced edge on said table along one side thereof, and a clamping strip adjustable between said edge and the side of the knee.

1,340,742. SAW-OILER. JOHN G. SPEER, Wichita, Kans., assignor of one-half to U. S. Williams, Wichita, Kans. Filed Feb. 8, 1919. Serial No. 275,803. 1 Claim. (Cl. 145—35.)



The combination with a hand saw having a blade and handle, of a lubricating device fitting into a socket formed in the handle and provided with a closed inner end having outlet openings, an internally threaded head fitting into the inner end portion of the socket of the handle and having threaded connection with the inner end portion of the cylinder, outlet spouts extending from the head upon opposite sides of the saw blade, a reservoir encircling the outer end portion of the cylinder and engagingthe handle to limit inward movement of the cylinder in the socket of the handle, the cylinder being provided with a side opening for communication with the reservoir, a cap closing the outer end of the cylinder, and means carried by the cap for discharging fluid from the cylinder through the openings in the inner end thereof.

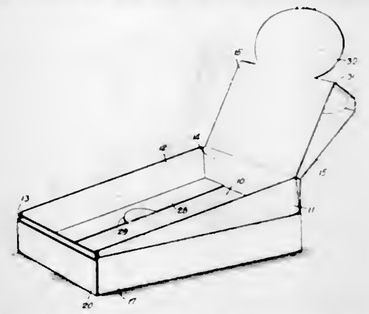
1,340,743. WAGON-BRAKE. EDWIN W. TUCKER, North Prairie, Wis. Filed Mar. 31, 1917. Serial No. 158,856. Renewed Mar. 18, 1920. Serial No. 366,961. 2 Claims. (Cl. 188—119.)



2. In combination, a truck body having bolsters connected by a hollow king bolt, a self-applied brake carried by said body, a tongue pivoted to one of said bolsters, and means connecting the tongue with the brake and extending through the king bolt for moving said brake into non-brake applying position when the tongue is moved into pulling position and adapted to return said tongue to a non-pulling position when released from the former position.

1,340,744. DISPLAY-CARTON. RAYMOND VAN IDERSTINE, Newark, N. J. Filed Oct. 15, 1919. Serial No. 330,936. 6 Claims. (Cl. 206—44.)

1. A carton of the character described, comprising a receptacle, a cover for the receptacle, said cover adapted to be inverted and receive the receptacle therein, and a member connecting one end of the cover with one end of the receptacle and supporting the receptacle at an incline in the cover.



1,340,745. HOSE-SUPPORTER. WILLIAM F. WATSON, Olean, N. Y., assignor of one-half to Frank W. Hout, Olean, N. Y. Filed Oct. 30, 1919. Serial No. 334,490. 3 Claims. (Cl. 24—261.)



3. A hose support constructed from a length of spring wire formed to provide upper and lower arms, said lower arm being formed intermediate its ends with a downwardly extending split manipulating loop thereby dividing the lower arm into a pair of spaced independently movable spring sections coacting with the upper arm to form a gripping means, said split loop being disposed in the plane of said arms and adapted to engage the limbs below said arms for securing the device against rotation.

1,340,746. SWAGGER-STICK. EDWIN L. YUNGK, Hartford, Conn. Filed May 6, 1919. Serial No. 295,172. 2 Claims. (Cl. 46—46.)

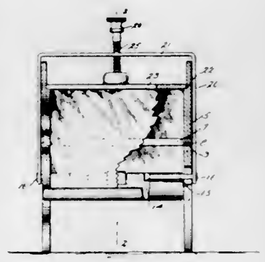


1. A holiday novelty, comprising in combination; a staff, a ferrule fitted upon the staff, with a ribbon interposed between the ferrule and the staff, said ribbon formed into an ornamental bow, and a bell attached to the ribbon.

1,340,747. COMPOSITION FOR CLEANING AND POLISHING. BENIE A. BARNES, Arkansas City, Kans., assignor of one-half to Chas. W. Early, Arkansas City, Kans. Filed Oct. 13, 1919. Serial No. 330,469. 1 Claim. (Cl. 134—24.)

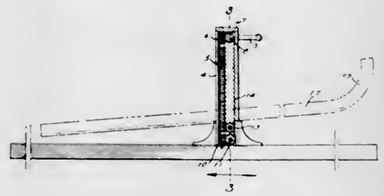
A composition of matter for use in cleaning and polishing furniture and the like, including paraffin oil, three quarts, water, 15 ounces, banana oil, 3 ounces, coloring matter, one quarter of an ounce, and alcohol not less than 15 ounces.

1,340,748. DELIVERING APPARATUS. MICHELANGELO BONO, New York, N. Y. Filed Jan. 14, 1920. Serial No. 351,399. 4 Claims. (Cl. 211—8.)



1. A dispensing apparatus comprising a receptacle having an open bottom and bifurcated end walls, a delivering mechanism for closing the bottom of said receptacle, and a bail for supporting said delivering mechanism in operative position, said bail embracing the end walls and the top of the receptacle.

1,340,749. AUTOMOBILE-JACK. WILLIAM HENRY BUTTERS, Calgary, Alberta, Canada. Filed Oct. 29, 1919. Serial No. 334,187. 5 Claims. (Cl. 254—89.)

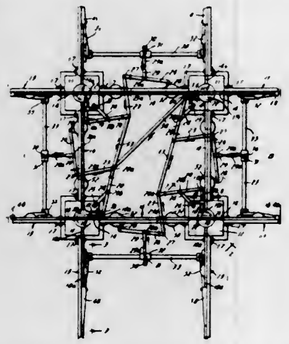


1. An automobile jack, comprising a support, uprights on the support, vertical screws supported by the uprights, pinions meshing with the screws and movable vertically by the screws, stationary vertical racks engaged by the pinions, a shaft connecting the pinions, tracks supported on the shaft, and means for turning the screws.

1,340,750. RAILROAD-CROSSING. CLAIBORN CLARK, Los Angeles, Calif. Filed Apr. 19, 1919. Serial No. 291,275. 11 Claims. (Cl. 246—378.)

1. A track intersection of the character described, embodying an intersection mechanism, an operating means, a connecting mechanism between the intersection mecha-

nism and the operating means and positive mechanical means in said connecting mechanism which allows over-



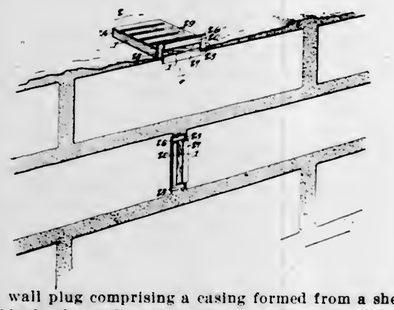
travel of the operating mechanism without causing over-travel of the intersection mechanism.

1,340,751. HONE-HOLDER. JAMES A. COLBERT, Delphos, Ohio. Filed Dec. 5, 1917. Serial No. 205,571. 1 Claim. (Cl. 51—211.)



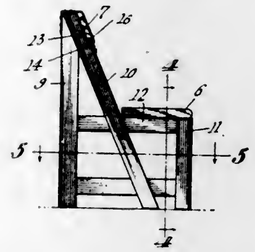
As an article of manufacture a hone holder of unitary construction comprising a plate having a downward extension at one end curled inwardly to receive the index finger of a user, a body portion having sides diverging from said end, a clamping tang rising from said body portion where it merges into the downward extension, and a plurality of similar clamping tangs rising from the opposite end of said body member whereby a hone may be securely and adjustably gripped in operative position.

1,340,752. WALL-PLUG. WILLIAM CORDERY and CHARLES CORDERY, Toledo, Ohio. Filed Dec. 27, 1919. Serial No. 347,671. 3 Claims. (Cl. 72—105.)



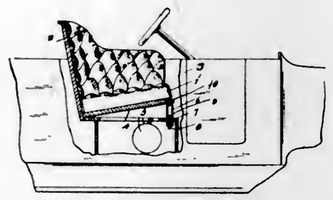
1. A wall plug comprising a casing formed from a sheet metal blank, the said casing including a closed rear end, top and bottom members, one of the said members terminating in a downwardly extended bottom front flange, and an upwardly extended flange, the said upwardly extended flange having an elongated slot extending nearly its full width, the end of the other member terminating in an upturned flange adapted for being projected through the said front slot and to expand over and interlockably engage the upper front portion of the front and a wooden block insertible within the top, bottom, front and rear end portions of the casing.

1,340,753. SEAT-SUPPORT. FRANK M. CRABILL, San Francisco, Calif. Filed Jan. 12, 1920. Serial No. 350,836. 1 Claim. (Cl. 155—196.)



A portable seat including a plurality of supports, each of the supports comprising a pair of frames hingedly connected together, an angularly disposed bar forming a part of each frame, each of said angularly disposed bars having a cut out portion formed adjacent the upper end thereof, a band having connection with each of the inclined boards and guarding the cut out portions thereof, a back rest positioned in the cut out portions of the angularly disposed bars and contacting with the bands, and a seat board connecting the support.

1,340,754. ATTACHMENT FOR AUTOMOBILE-SEATS. JULIUS H. DEERING, Brainerd, Minn. Filed Oct. 31, 1918. Serial No. 260,588. Renewed Apr. 10, 1920. Serial No. 373,001. 2 Claims. (Cl. 155—9.)



1. An attachment for automobile seats comprising a casing, means securing said casing to the forward edge of a seat cushion, and shock absorbing means within said casing and secured to the seat frame of the automobile.

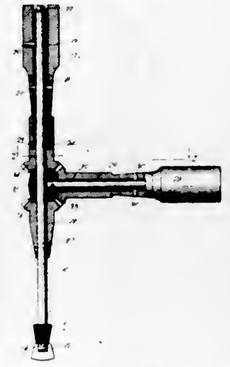
1,340,755. TIE-HOLDER. ALBERT W. DESHANE, Cosmopolis, Wash. Filed Jan. 10, 1919. Serial No. 270,549. 3 Claims. (Cl. 2—84.)



1. A device of the class described comprising a central loop part, wings connected therewith and stud receiving loops on said wings.

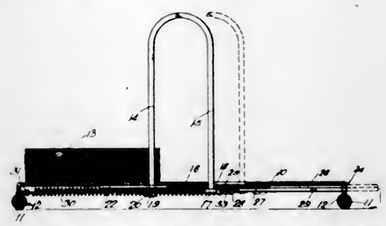
1,340,756. VALVE-GRINDER. WINFIELD L. DINSMOOR, Oakland, Calif. Filed Oct. 30, 1918. Serial No. 260,355. 4 Claims. (Cl. 51—29.)

2. A valve grinder including a spindle, means at the front end of the spindle to engage a valve, holding means loose on the spindle at the rear end, a hub loose on said spindle between said holding means and said valve engaging means having a laterally extending core, a handle mounted on said core to turn back and forth about its own axis and in addition being turnable about the axis of the spindle through a complete circle in either direction or vibratable about the axis of the spindle in any given arc, and coöperating meshing bevel pinions fast on said handle



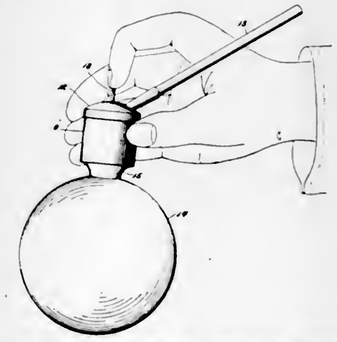
and said spindle to turn the spindle with the turning of the lateral handle about its own axis or with the turning or vibrating of said handle about the axis of the spindle.

1,340,757. CARD-FILE. WINFIELD L. DINSMOOR, San Francisco, Calif. Filed July 30, 1919. Serial No. 314,194. 3 Claims. (Cl. 129—9.)



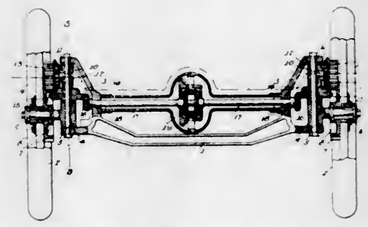
1. A file of the class described including a support, a filing arch thereon composed of a fixed spindle and a relatively movable spindle, a slide on said support carrying the movable spindle, a pivoted latch carried on said slide and adapted to engage the support to hold the slide with the spindles separated, and a spring connected with said latch to retract the slide by exerting its force on the latch, said spring tending to swing the latch in a direction to effect engagement with the support.

1,340,758. SOAP-BUBBLE DEVICE. MICHAEL G. DOBBINS, Philadelphia, Pa., assignor of one-third to Frederick H. Shaw, Norristown, Pa., and one-third to Angus G. Craig, Philadelphia, Pa. Filed Sept. 8, 1919. Serial No. 322,287. 4 Claims. (Cl. 46—31.)



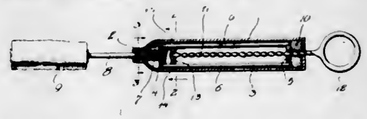
1. A device of the character described comprising in combination with a fluid-containing receptacle having an outlet forming a mouth, of reciprocatingly mounted means for contact with the fluid of the receptacle and movable to be drawn across the mouth to form a film of the fluid thereon.

1,340,759. FRONT-WHEEL-DRIVE MECHANISM. GEORGE S. DUNCAN, Jeffersonville, Ind. Filed Aug. 10, 1918. Serial No. 249,350. 1 Claim. (Cl. 180—43.)



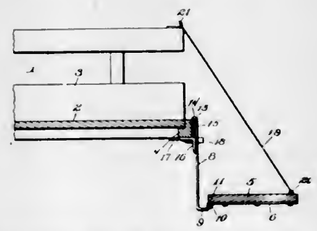
In front wheel driving mechanism, the combination with the front axle having knuckle holding forks at opposite ends thereof, and steering wheel knuckles mounted in said forks to turn on substantially vertical axes, a front wheel driving shaft located above and in parallel relation to the front axle and having the end portions thereof journaled in said knuckle holding forks, bevel pinions fast on the opposite ends of said shaft, double faced bevel gears rotatable on vertical axes around the pivot shafts of the knuckles and actuated by said bevel pinions on the driving shaft, other bevel gears meshing with said double faced bevel gear and having their shafts journaled in bearings supported by the pivot shafts of the knuckles, spur pinions fast on the shafts of the last named bevel gears, and spur gear faces on the hubs of the steering wheels meshing with and driven by said spur pinions, the hubs of the steering wheels being formed in their inner faces with annular clearance channels for the double faced bevel gear.

1,340,760. ROTARY TOOTHBRUSH. GEORGE B. EHRIG, Washington, D. C. Filed Oct. 2, 1919. Serial No. 327,846. 2 Claims. (Cl. 15—37.)



1. A device of the class described comprising a casing, a rotating frame therein, said frame consisting of a pair of disks and rods connecting the disks together, a brush, means for connecting the same with the frame, a reciprocating rod carried by the shaft, means for causing the reciprocating movement of the shaft to rotate the frame and a handle on said shaft.

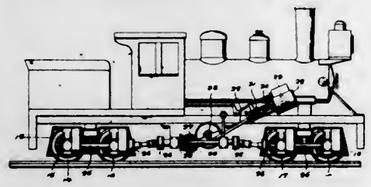
1,340,761. COMBINATION END-GATE AND STEP FOR TRAILERS. ALBERT P. FIX, Detroit, Mich. Filed Mar. 3, 1920. Serial No. 362,964. 3 Claims. (Cl. 296—62.)



3. In a combined end gate and step, the combination of a vehicle body, brackets secured to the lower rear portion

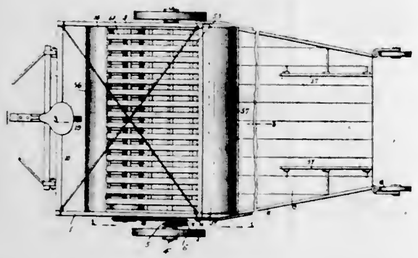
of the vehicle body, a board, straps secured to the inner face of the board, straps arranged upon the outer face of the board and hinged at their lower ends to said brackets, said straps being provided at their upper ends with U-shaped offsets adapted to receive and engage the upper edge of the board and hinged to the upper ends of the first-named straps, stops upon the body lying in the path of the outer straps for supporting the same when disposed in a pendent position, and means for bracing the board from the body when disposed in step forming position.

1,340,762. LOCOMOTIVE DRIVING-GEAR. GEORGE R. FRANCE, Waycross, Ga. Filed Aug. 16, 1918. Serial No. 250,199. 3 Claims. (Cl. 105—117.)



1. In a device of the class described, a cylinder, a piston therein, a crank shaft driven from said piston, a counter shaft driven from the crank shaft, a line shaft, miter gears mounted on the line shaft and on the counter shaft and having their axes in the same plane, and means for directly driving the wheels of the forward and rear trucks of a locomotive from said line shaft.

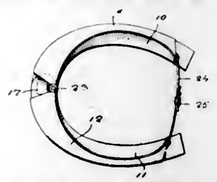
1,340,763. HAY-COCKING MACHINE. JOHN A. FRANCE, Sault Ste. Marie, Mich. Filed Dec. 5, 1917. Serial No. 205,568. 1 Claim. (Cl. 56—351.)



A hay cocking platform adapted to be attached to the rear end of a hay gathering apparatus for receiving the hay therefrom, said platform being formed with a space for receiving hay from the hay gathering apparatus, a space for receiving the hay cock and a pair of spaces for receiving workmen, a pair of up-standing partition members arranged in spaced parallel relation to provide walls on each side of the cock receiving space, said partition members extending from the rear edge of the platform but falling short of the front end to leave said hay receiving space clear, and traction members arranged at the rear of the platform.

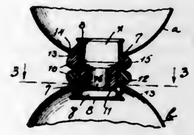
1,340,764. HORSESHOE. JOHN GRABOWSKI, Baltimore, Md. Filed Feb. 24, 1919. Serial No. 278,891. 3 Claims. (Cl. 168—19.)

1. A horseshoe constructed in two sections, an inwardly inclined curved flange carried by each section, the front meeting ends of each section being reduced to provide an overlapping joint, a toe calk having a shank removably connecting the meeting ends of the sections together, means for connecting the heel ends of the sections, and



means engageable with each section and with the shank of the calk for preventing relative movement of the sections.

1,340,765. CHAIN. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 1, 1919. Serial No. 327,692. 10 Claims. (Cl. 59—80.)



10. As a chain element, a ball member having engaged therewith, on the chain axis, a link member with beveled shank, said link being free for both longitudinal and rotary displacement with relation to the ball and the bevel being such as to permit greater freedom of angular displacement between the parts when the link is drawn outward than when it is moved inward with relation to the ball, together with means at the outer end of the link member for engaging a coöperating link member carried by an adjacent ball member of the chain.

1,340,766. PHONOGRAPH-CABINET. CHRISTIAN H. GUDEGAST, Richmond Hill, N. Y. Filed Oct. 29, 1919. Serial No. 334,341. 1 Claim. (Cl. 45—52.)



In a phonograph cabinet having a turn table compartment, needle receiving means in said compartment, a slide adapted to be inserted in said cabinet independent of said turn table compartment, said slide having means for receiving needles therein whereby needles in the receiving means of said turn table compartment and the needle receiving means of the slide will not become mixed.

1,340,767. FLY-KILLING DEVICE. GEORGE M. HANNON, Belton, Tex. Filed Oct. 11, 1919. Serial No. 329,932. 2 Claims. (Cl. 43—137.)

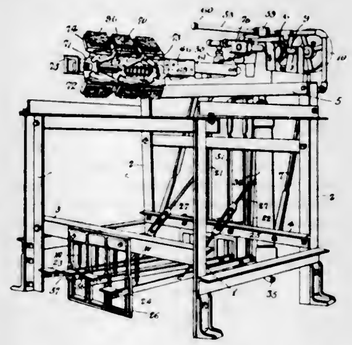
1. A fly killing device comprising a handle, a blade spaced from one end of the handle, a resilient shank on

the blade, and a resilient arm having an eye that loosely receives the shank; said shank and arm being joined by



a relatively long loop that is socketed in the end portion of the handle.

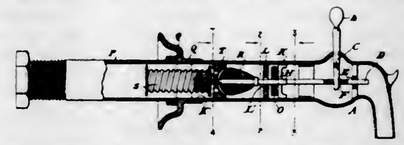
1,340,768. CAN-WASHING MACHINE. ABRAM B. HERR, Lancaster, Pa., assignor of one-third to Elam M. Royer and one-third to John H. Moseman, Lancaster, Pa. Filed Apr. 23, 1914. Serial No. 833,911. 5 Claims. (Cl. 141—7.)



2. In a machine of the class described, a brush holder, a hollow shaft for rotatably mounting said holder, a conducting member communicating with the interior of the shaft for admitting steam or water thereto, a plurality of coöperating clutch members, one of said members being rigidly mounted on the shaft and the other being rotatably mounted thereon, means for driving said shaft through the medium of the clutch members, and means for controlling the relative position of the clutch members, said means including a slidable yoke member, a rod connected therewith, a foot lever, a second rod, said second rod being connected with the foot lever and with the rod first mentioned, a valve for admitting fluid through the interior of the hollow shaft, said rod last named having connection with the valve and operating the latter, and means for returning the foot lever and valve to normal position.

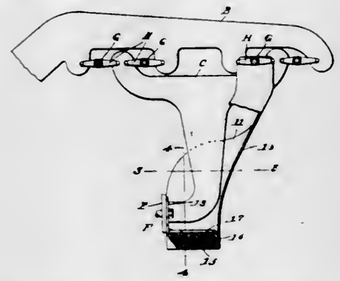
1,340,769. FAUCET FOR DISPENSING HIGH-PRESSURE LIQUIDS. CARL L. HOLDERLE and FREDERICK W. HOLDERLE, Rochester, N. Y. Filed Sept. 9, 1919. Serial No. 322,743. 4 Claims. (Cl. 225—2.)

1. An apparatus for dispensing high pressure carbonated liquids comprising a faucet with a longitudinally movable stem therein, guides upon the latter, a handle pivotally mounted for actuating the stem, a shell connected to the faucet and provided with a valve seat through which the stem passes, a high pressure check washer loosely mounted upon the stem intermediate said guides and seat, a ball valve mounted upon the stem, and



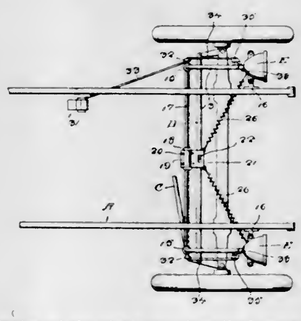
a high pressure agitator connected to said stem, and a yoke guide intermediate said valve and agitator.

1,340,770. MANIFOLD-HEATER. CHARLES S. HORTON, Huntley, Mont. Filed Nov. 11, 1919. Serial No. 337,158. 1 Claim. (Cl. 263—5.)



An attachment for an internal combustion engine provided with intake and exhaust manifolds secured in place by arms carried by studs, comprising a metallic shield disposed in partially embracing relation to the intake manifold and including side portions, one side portion being provided with a hole for the passage of one of said studs, said shield extending below the intake manifold and having its lower portion formed as a reservoir, an ear formed at the lower portion of the shield and apertured for the passage of one of the bolts securing the intake manifold to the carbureter flange, and an absorbent pad within said reservoir portion adapted to be saturated with an inflammable liquid.

1,340,771. HEADLIGHT CONTROL. STANLEY E. JACOBY and CLELAND J. EDMONDS, Brimfield, Ind. Filed June 20, 1919. Serial No. 305,563. 2 Claims. (Cl. 240—61.)



1. A device of the character described comprising a pair of supporting members having their forward ends provided with upwardly extending vertical portions journaled upon the frame bars of an automobile, head lights connected with the upper ends of said vertical arms, a shaft connected with the rear ends of said supporting members, a member secured upon said shaft and including a forwardly extending plate disposed horizontally and provided with a transverse slot, a sleeve secured upon the

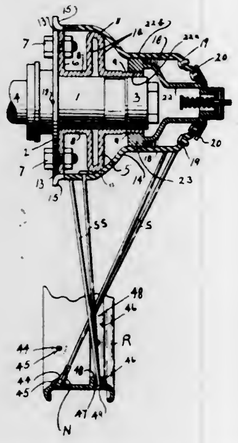
steering arm connecting rod of the automobile, a vertically extending arm carried by said sleeve and disposed within said slot whereby upon longitudinal movement of said connecting rod during steering of the automobile said supporting members will be swung, resulting in corresponding movement of said head lights, and a pair of equalizing springs connected with the forward corners of said plate and with the forward extremities of said supporting members.

1,340,772. SURGICAL BANDAGE—HEATER AND WRINGER. WILLIAM JENNINGS, Camp Nelson, and CELIA JANE ARMSTRONG Louisville, Ky. Filed Oct. 24, 1919. Serial No. 333,060. 4 Claims. (Cl. 68—32.)



1. An apparatus of the class described having a wringer frame and means for supporting the same and a water pan detachably engaged with the wringer frame adjacent to the plane of the wringer rolls and provided with a drain lip extending under and beyond the wringer roll.

1,340,773. DETACHABLE WIRE WHEEL. JOHN F. JINKNER, Buffalo, N. Y. Filed July 28, 1919. Serial No. 313,674. 4 Claims. (Cl. 21—69.)



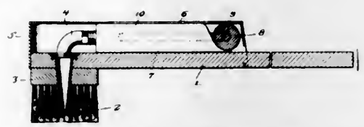
1. Apparatus for the production of electrical oscillations comprising a source of electrical energy, an oscillatory circuit, means for alternately connecting and disconnecting said circuit to said source, a second oscillatory circuit coupled to said first circuit and a spark gap connected to said second circuit adapted to discharge the energy transferred to the second circuit at time intervals corresponding to the alternate connection and disconnection of the first circuit to the electrical source.

1,340,774. RADIATOR. FRITZ JOHNSON, Fountain, Colo. Filed May 14, 1918. Serial No. 234,429. 1 Claim. (Cl. 257—129.)



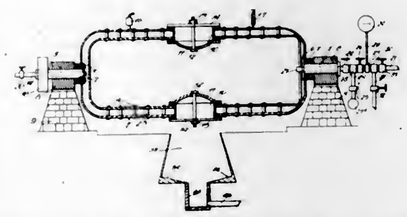
In a radiator, top and bottom headers, said headers being provided upon their adjacent sides with couplings which extend inwardly toward each other, said couplings being elongated and having their ends closed, and a plurality of vertical tubes adapted to be arranged between the headers, said tubes being provided at their opposite ends with upwardly and downwardly extending pairs of spaced flanges, said pairs of flanges being elongated and adapted for the reception therebetween of the elongated couplings, said flanges having openings at their ends so that the tubes may be inserted in place by a substantial horizontal movement with relation to the headers.

1,340,775. SHOE-DAUBER. JOHN F. KELLY, Elkins, W. Va. Filed Nov. 3, 1917. Serial No. 200,101. Renewed Nov. 10, 1919. Serial No. 337,053. 1 Claim. (Cl. 15—46.)



A brush comprising a flat elongated handle member, a casing pivoted at one end thereof to said handle member, being provided at its side with longitudinally disposed slots, the free end of the casing being frictionally engaged with the end of the handle member, a roller having gudgeons received in the slots, a pipe carried by the handle member and housed under the casing and adapted to be connected with a collapsible tube, bristles carried by the handle member and a nipple connected with the pipe and leading into the assemblage of bristles.

1,340,776. APPARATUS FOR RECLAIMING RUBBER-WASTE. FRANK L. KRYDER, Akron, Ohio, and EDGAR W. SNYDER, Indianapolis, Ind. Filed Mar. 8, 1918. Serial No. 221,251. 1 Claim. (Cl. 18—2.)



In apparatus of the character described, a pair of spaced bearings, a vertically rotatable shell arranged between the bearings in an approximately horizontal position and having a steam jacket which surrounds its periphery and one end thereof while its opposite end is uncovered by the steam jacket, tubular members secured to the ends of the shell with one tubular member leading into the steam space of the jacket and the other tubular member leading into the interior of the shell, a steam pipe extending into the first-mentioned tubular member, an inlet pipe extending through the second named tubular member and adapted to discharge material to be treated to the interior of the shell, and a pump connected with the inlet pipe and adapted to supply a treating solution to the interior of the shell through the inlet pipe, said pump being adapted to supply the solution under suitable pressure to increase the pressure within the shell without substantially increasing its temperature.

1,340,777. PROCESS OF RECLAIMING AND REGENERATING RUBBER-WASTE. FRANK L. KRYDER, Akron, Ohio. Filed Aug. 18, 1919. Serial No. 318,321. 25 Claims. (Cl. 18—52.)

1. The herein described process of treating rubber waste comprising subjecting it to the action of a solvent comprising phenylenediamin and mineral rubber.

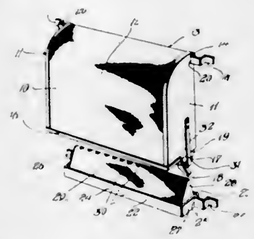
25. The herein described process of treating rubber waste comprising disintegrating it, subjecting the disintegrated mass to the action of a heated liquid bath containing approximately from 10 to 15 per cent. by weight of caustic soda in aqueous solution for approximately from 6 to 20 hours at a pressure of from 50 to 200 pounds per square inch, then subjecting the treated waste to the action of a solvent comprising approximately 1 part by weight of phenylenediamin, 2 parts by weight of paraffin oil, 2 parts by weight of mineral rubber, 1 part by weight of rubber resin, and 2 parts by weight of acetic acid and washing and drying the resulting mass.

1,340,778. NAME-PLATE. CHARLES H. LANE and JOHN H. STEELE, Portland, Oreg. Filed July 31, 1919. Serial No. 314,453. 3 Claims. (Cl. 40—140.)



1. Means for securing a member to sheet metal, the rear side of which is not readily accessible, the same consisting of a bolt adapted to pass through registering openings in the member and sheet metal, a nut on the bolt and adapted to pass through the opening formed in the sheet metal and a retainer element having a part confined between the member and sheet metal and passing through the opening of the latter and confined against the rear side thereof by the nut.

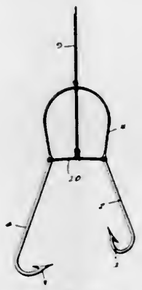
1,340,779. FLYTRAP. WILLIAM J. LEE, Eugene, Oreg. Filed Aug. 18, 1919. Serial No. 318,173. 3 Claims. (Cl. 43—119.)



1. A device of the character described comprising a cage member, a trapping member extending into said cage member at the bottom thereof and detachably connected therewith, lugs extending from the sides of said cage member and said trapping member, and brackets detachably engaged by said lugs and adapted to be secured upon the frame of a screen.

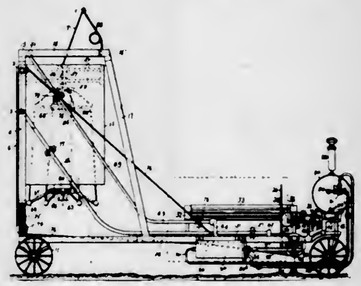
1,340,780. FISHHOOK. KALMAN LEON, Washington, D. C. Filed Jan. 19, 1920. Serial No. 352,279. 3 Claims. (Cl. 43—37.)

1. A fish-hook comprising a bait hook having a shank, a gaffing hook having a comparatively long shank, a spring bail having a central aperture, reduced portions between the ends of said bail and the heel ends of the hook shanks, a flexible connection between said reduced portions, and a



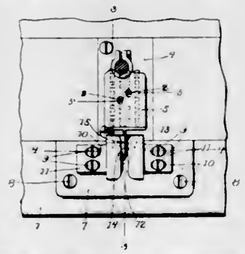
leader connected to said flexible connection and movable through the aperture in the bail.

1,340,781. AUTOMATIC GRAIN-SHOCKER. ALBIN P. LOFSTRAND, Edmonton, Alberta, Canada. Filed July 2, 1919. Serial No. 308,276. 8 Claims. (Cl. 56—424.)



4. In an apparatus of the class described a supporting frame, guide tracks in spaced relation mounted on said frame and each including a horizontal portion and an inclined portion, a receptacle for the grain having guide sheaves engaging said tracks, cable guide sheaves carried by said frame, one of said cable guide sheaves being yieldable, an endless cable engaging over said cable guide sheaves and connected to said receptacle, and means for actuating said cable to cause said receptacle to pass from a horizontal to a perpendicular position.

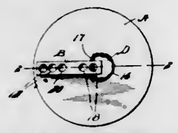
1,340,782. FOLDER OR SEAM-OPENER FOR SEWING-MACHINES. WILLIAM J. LOGGIE, Frankfort, Ky., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 27, 1916. Serial No. 133,708. 3 Claims. (Cl. 112—147.)



1. In a device for separating and laterally turning the seamed edges of fabric sections, the combination of a central guide provided with an apex at its front end and with flaring sides extending rearwardly from said apex, spaced guiding members located at opposite sides of the

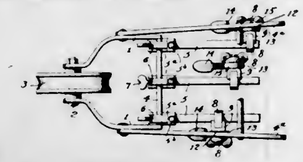
apex of said central guide, said apex of the central guide being disposed midway between the front and rear edges of said spaced guiding members, whereby said guiding members operate to center and direct the fabric sections to the central guide, and said guiding members having side walls partially overlapping the flaring sides of said central guide.

1,340,783. CLOSURE FOR BOTTLES AND JARS. JAMES A. LOYSTER, Cazenovia, N. Y. Filed Dec. 9, 1913. Serial No. 805,600. 10 Claims. (Cl. 215—14.)



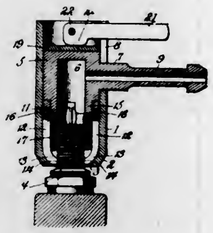
1. A sheet metal tab for a bottle or jar closure having a prong punched from the sheet and extending at an angle thereto, the said prong being bent transversely to stiffen it and said tab being weakened near the prong to facilitate bending.

1,340,784. GARDEN PLOW OR CULTIVATOR. JOSEPH GILLIS LUNDY, Evergreen, Ala. Filed Oct. 9, 1919. Serial No. 329,484. 4 Claims. (Cl. 97—42.)



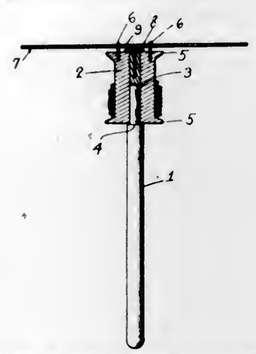
3. In an agricultural implement, the combination of a frame having a rear cross bar which is straight from side to side, a series of plow beams each having a hook shaped end to hook over the cross bar, each beam being laterally adjustable on the bar independently of the other and a clamp on each beam, each clamp passing under the bar and embracing the lower end of its beam.

1,340,785. TIRE-PUMP CONNECTION. JOSEPH B. MCMULLIN, Oskaloosa, Iowa, assignor to Western Manufacturing Co., of Oskaloosa, Iowa, a Corporation of Iowa. Filed July 11, 1919. Serial No. 310,144. 9 Claims. (Cl. 285—150.)



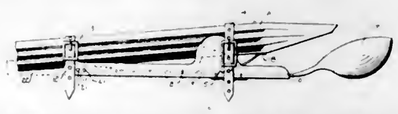
1. A tire pump connection comprising a shell constituting the body portion thereof, a follower in the shell provided with means for the attachment of a hose thereto, a thimble in the shell in coactive relation to the follower and having a contractible end with interior screw-threads to engage the exterior screw-threads of an inner tube nipple, a yieldable gasket within the thimble for engaging the exterior threads of the inner tube nipple, and means for forcing the follower against the gasket to compress the latter and also to cause a movement of the thimble to contract the threaded portion thereof about the inner tube nipple into meshing relation with the threads thereof.

1,340,786. TOY. ANGELO W. MANZIE, Newport News, Va. Filed Nov. 18, 1919. Serial No. 338,800. 1 Claim. (Cl. 244—2.)



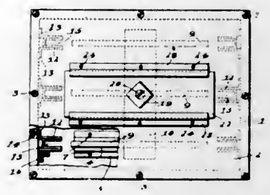
A toy of the aerial projectile type comprising a handle having a shoulder and a spindle extending upwardly from the shoulder, a spool revoluble about the spindle and supported on the shoulder and having end flanges, pins fixed to and extending upwardly from the upper end of the spool at points off the center thereof, a flat disk-like retainer arranged against the upper end of the spindle and located between and in spaced relation to said pins, a fastening pin in the spindle and having a head at the outer side of the retainer, and an aerial projectile having a flat central body adapted to bear centrally against the said pin-head and in which are apertures off the center to loosely receive the said pin.

1,340,787. RIVET-HEAD CATCHER. HARRY J. MORLEY and GEORGE L. GREEN, Logan, Ohio. Filed Jan. 30, 1920. Serial No. 355,271. 2 Claims. (Cl. 81—3.)



2. A rivet head catcher comprising an elongated body provided at one end with means embracingly engaging a chisel bar and having its other end provided with a spoon member disposed adjacent the cutting edge of the chisel, an adjustable flexible member connected with the central portion of the body and extending around the chisel, and a spring at the intermediate portion of the body engaging the chisel, said flexible member being adjustable whereby to clamp the body against the chisel with said spring compressed.

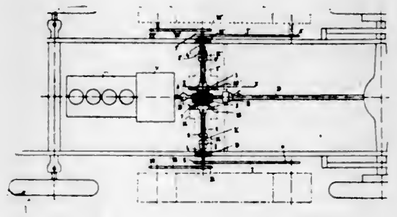
1,340,788. ELECTRIC SWITCH. DANIEL L. O'HARA, Greenland, Mich. Filed Dec. 7, 1918. Serial No. 265,673. 2 Claims. (Cl. 200—163.)



1. A switch comprising in combination a substantially rectangular casing, a plurality of spaced parallel guides of conducting material, said guides being secured to the bottom of said casing, and socket members of conducting material secured to the end walls of the casing in longitudinal alinement with the aforementioned guide, said

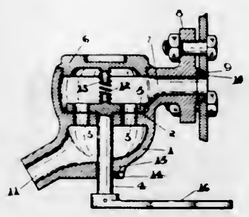
guides and socket members being formed from a single piece of material bent intermediate at its ends to provide a substantially U-shaped channel, and attaching flanges, a binding post carried by one flange of each guide and socket member, a yoke arranged within the casing, a plurality of blades depending from the yoke and arranged in said guides, and adapted to be moved into and out of engagement with the socket members, and a handle arranged exteriorly of the casing in connection with said yoke for shifting the latter.

1,340,789. MOTOR-VEHICLE FOR SOFT GROUND. JOCELYN EMILE OLLIVIER, Paris, France. Filed May 7, 1918. Serial No. 233,137. 13 Claims. (Cl. 180—9.)



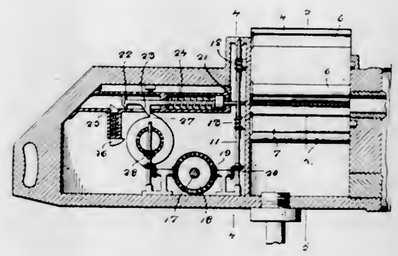
1. In a motor vehicle, for soft ground, the combination of a motor; a shaft arranged transversely of the vehicle and provided with a differential; a transmission connection between the motor shaft and the transverse shaft; a driving axle for the rear wheels comprising a pair of spindles to which the said wheels are secured, and a casing inclosing said spindles; outer and inner pinions at each end of the transverse shaft; a pair of tractors located at opposite sides of the vehicle; a chain drive between each outer pinion and the adjacent tractor; a chain drive between each inner pinion and the adjacent spindle; and a clutch device on said transverse shaft for throwing the tractors into and out of operation.

1,340,790. BOILER BLOW-OFF VALVE. COLIN C. O'NEIL, Sarnia, Ontario, Canada. Filed Sept. 12, 1919. Serial No. 323,347. 2 Claims. (Cl. 251—85.)



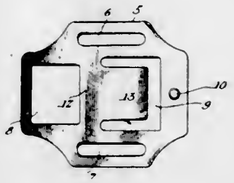
1. A blow-off valve comprising a valve casing having a flat valve seat formed intermediate of its ends provided with a plurality of ports and a central hole for the passage of a valve stem; a laterally directed inlet waterway entirely and at all parts of its length above the valve seat; a laterally directed waterway below the valve seat having a hole in its lower wall for the passage of a valve stem; a cap-closed opening opposite the valve seat through which a valve disk may be inserted; a disk valve located substantially entirely below the inlet waterway and having a plurality of ports therein corresponding to the ports of the valve seat extending through the disk from top to bottom substantially parallel to its axis; a valve stem extending from the valve disk through the holes and in the valve seat and outlet waterway.

1,340,791. GUN. JAMES PACIFICO, Denver, Colo. Filed June 30, 1919. Serial No. 307,550. 1 Claim. (Cl. 89—13.)



A gun of the class described comprising a breech chamber, a pair of recessed drums therein, a belt containing shot gun cartridges, means for rotating the drums to feed the belt between them and to bring the recesses together to form a cartridge-receiving chamber, a crank connected with said drum-operating means, a horizontally and longitudinally movable firing pin, a sear for holding the pin in retracted position, and means operated by the crank for retracting the pin and withdrawing the sear.

1,340,792. TRACE-BUCKLE. JOHN GEORGE POCKERT, Dunn Center, N. D. Filed June 18, 1918. Serial No. 240,600. 1 Claim. (Cl. 24—174.)

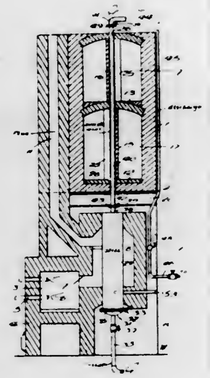


A trace buckle for engaging with a trace and for engaging a loop connected with a back strap, comprising a flat member having an outstanding pin on one of the edges thereof to engage in an opening in a trace and having spaced longitudinal openings through one of which the trace is adapted to pass, the bridge piece between said openings being integrally formed with a flat tongue directed toward the pin and having the side and end edges thereof parallel with the side and the end edges provided by the last mentioned opening and spaced from said edges a distance only slightly greater than the back and side bars of the loop, whereby, when the said loop is engaged on the buckle the said back bar thereof will rest directly over the tongue and compress the trace thereagainst.

1,340,793. OIL-CRACKING APPARATUS. WILLARD B. POOLE, Okmulgee, Okla., assignor, by direct and mesne assignments, to Poole Oil-Cracking & Refining Company, Yuma, Ariz., a Corporation of Arizona. Filed Dec. 28, 1918. Serial No. 268,631. 5 Claims. (Cl. 196—3.)

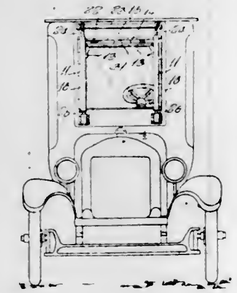
1. An apparatus of the character described having superposed separated heat chambers with heating means independent of each other, a still located within the lowermost heat chamber and spaced from its walls for the circulation of heating gases in said chamber about the major portion of said still, an inlet tube extended through

the remaining upper chambers and connected with the upper portion of the still, and an outlet tube extending



through said remaining upper chambers and connected with the still.

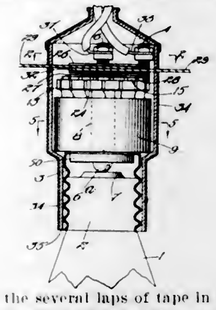
1,340,794. WINDOW-WIPING DEVICE. GEORGE H. RUSSELL, Pittsfield, Mass. Filed Mar. 27, 1919. Serial No. 285,567. 4 Claims. (Cl. 15—59.)



1. In a surface wiping device, a pair of guiding channels mounted adjacent the surface to be wiped, a pair of carrying bars slidable in said channels and provided with lateral extensions, a pair of supports having diamond shaped portions pivoted between their ends to said bars, a wiping bar carried by said supports and movable into and out of contact with the surface to be wiped as said supports are rocked upon their pivots, flat springs fastened at one of their ends to the lateral extensions of said bars, said springs being disposed on one of the sides of the diamond shaped portions of said supports and having their other ends bearing against one of the ends of the latter to hold said supports with said wiping bar out of contact with the surface to be wiped, means for moving said bars in said channels and including flexible elements disposed on the other sides of the diamond shaped portions of said supports and secured to the other ends of the latter, and guiding lugs carried by said bars and guiding said elements whereby when the latter are pulled said supports will be rocked on their pivots and said wiping bar will be moved into contact with the surface to be wiped.

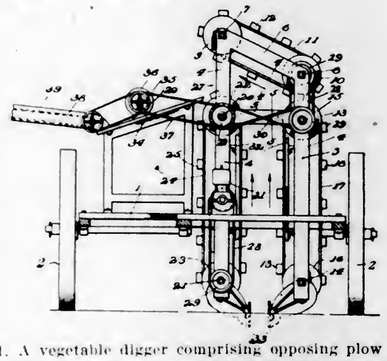
1,340,795. ELECTRIC-LIGHT REGULATOR. LOUIS SAWYER-SOUCY and ALBERT G. SAWYER-SOUCY, Lynn, Mass. Filed Feb. 25, 1920. Serial No. 361,231. 11 Claims. (Cl. 219—71.)

1. A rheostat coil consisting of a tape of insulating material wound with fine wire and coated on at least one face with a heat-resisting, non-conducting cement, which covers the wire as well as the tape, said wire-wound tape being



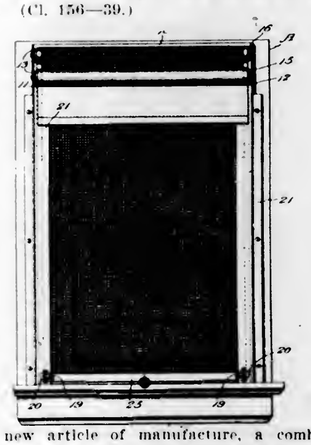
rolled into a coil, the several laps of tape in the coil being adhesively united together by the said cement.

1,340,796. BEET-PULLER. WILHELM SCHMIDT, Monroe, Wash. Filed Apr. 18, 1919. Serial No. 290,975. 7 Claims. (Cl. 55—108.)



1. A vegetable digger comprising opposing plow shares to elevate the soil and vegetable, and a grasping elevator mounted above the plows and comprising opposed sets of vertically traveling flights between which the plant portion of the vegetable may be grasped, and an upper section of laterally traveling flights to direct the vegetables from the elevator.

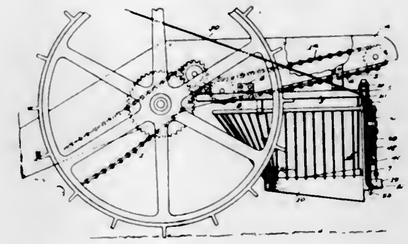
1,340,797. WINDOW-SCREEN. FRANK J. SCHOCH, Greensboro, N. C. Filed May 6, 1919. Serial No. 295,064. 2 Claims. (Cl. 156—39.)



2. As a new article of manufacture, a combination window shade and screen roller bracket comprising an elongated body portion, ears projecting forwardly from the ends of said body portion and provided with spaced slots and openings, a horizontally arranged flange extended

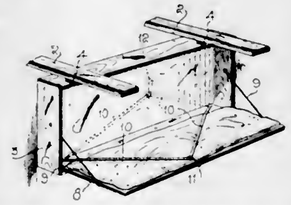
forwardly from the lower edge of the body portion, said flange having a width equal to the distance between the body portion of the bracket and said screen, and lugs depending from the forward edge of said flange and constituting a stop as and for the purpose specified.

1,340,798. POTATO-RECEPTACLE. CHARLES E. SCOTT, Del Norte, Colo. Filed Apr. 11, 1919. Serial No. 289,188. 9 Claims. (Cl. 298—23.)



3. A receptacle designed to be connected with and carried by a potato digger and embodying means including a vertically-swinging combined bottom and chute and a vertically slidable door for automatically discharging a predetermined weight of potatoes, and means for automatically restoring the discharging means to its normal position subsequently to the discharge of a mass of potatoes.

1,340,799. CURTAIN-HOLDER FOR AUTOMOBILE-TOPS. WILLIAM PRESCOTT SHARP, Columbus, Ohio. Filed Oct. 27, 1919. Serial No. 333,802. 2 Claims. (Cl. 224—29.)



1. A receptacle for holding curtains on automobile tops, consisting of a receptacle, a rack hinged thereto, elastic elements attached at one end to said receptacle, interiorly thereof, and a hook carried by said elements and engageable with the free edge of said rack, to tension said elements.

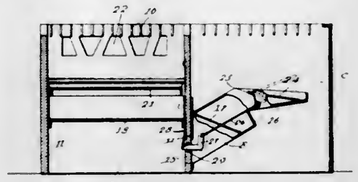
1,340,800. CUTTER. CHARLES B. SHERLOCK and JOHN B. MORSE, Washington, D. C. Filed Mar. 18, 1919. Serial No. 283,413. 3 Claims. (Cl. 30—11.)



1. A sickle-bar guard made in a single piece with a space formed to receive the sickle, and the edges of the guard both above and below the sickle-bar being toothed, and the end terminating in a spear-head.

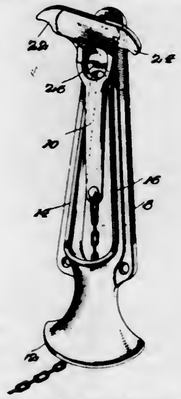
1,340,801. TRAP. MARK M. SHIELDS, Republic, Wash. Filed July 12, 1919. Serial No. 310,322. 1 Claim. (Cl. 43—76.)

A trap comprising a receptacle having an entrance opening, a platform pivoted therein, a bait compartment, a cage, a chute establishing communication between the receptacle and cage, a gate freely pivoted within said chute and normally closed, a leaf spring secured to one wall of the receptacle, and arranged at right angles to said platform to engage and hold the latter in an inclined position, a second mentioned gate pivoted within said



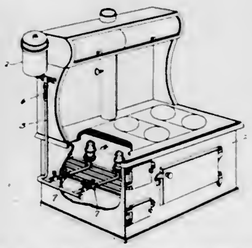
chute, a rod connecting said gate with the free end of said leaf spring whereby the latter is moved by the opening of the gate to release the platform and allow the latter to assume its normal position.

1,340,802. HAND-OPERATING DEVICE FOR MUFFLER CUT-OUTS. GEORGE H. TABER, Binghamton, N. Y., assignor to Emco Manufacturing Company, Inc., of Binghamton, N. Y., a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,504. 4 Claims. (Cl. 74—5.)



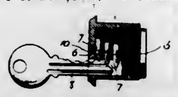
1. As a new article of manufacture, a hand operating device for muffler cut-outs comprising a hanger substantially flat whereby it may be easily secured in position and having a bell-shaped lower end and a lug or hanger near its upper end, and a handle adapted to be hung upon said lug or hanger and provided with a chain passing through said bell shaped end, substantially as described.

1,340,803. LIQUID-FUEL BURNER. EARL H. TATE, Los Angeles, Calif. Filed Dec. 18, 1918. Serial No. 267,317. 2 Claims. (Cl. 158—66.)



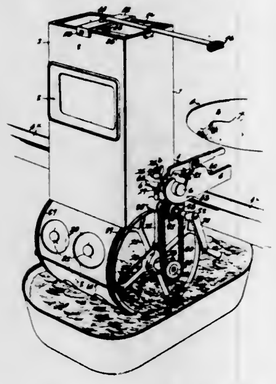
1. A burner of the class described comprising a body of Y-shape, an inverted U-shaped pipe having its ends connected with the ends of the Y, a jet carried by said pipe for directing the flame downwardly toward the body part and a plate located between the arms of the body and the body at the junction of the tube therewith.

1,340,804. PIN-TUMBLER LOCK. FRANK E. THOMPSON, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Jan. 30, 1920. Serial No. 355,034. 4 Claims. (Cl. 70—47.)



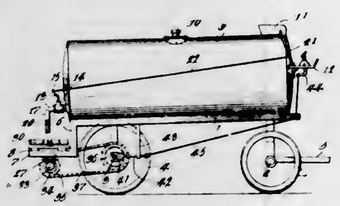
1. In a pin tumbler lock, the combination of a cylinder, a plug having a key slot, a pin tumbler for locking the plug against rotation in the cylinder and means projecting from the tumbler and resting in grooves in the plug for preventing the tumbler from binding.

1,340,805. DOUGHNUT-MAKING MACHINE. JOHN C. THOMSON, Chicago, Ill. Filed Feb. 6, 1920. Serial No. 356,762. 16 Claims. (Cl. 107—4.)



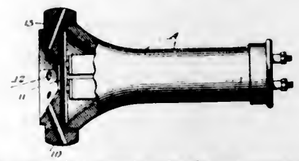
1. In a machine of the character described, a grease container, a forming drum for depositing the formed article into the grease container and a charging receptacle for supplying the dough to the forming drum.

1,340,806. FERTILIZER-DISTRIBUTER. CLAYTON H. TRAVIS, Polo, Ill. Filed Oct. 11, 1918. Serial No. 257,743. 1 Claim. (Cl. 299—38.)



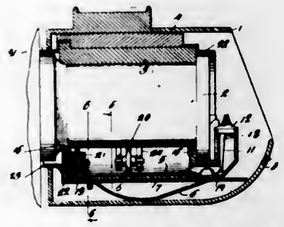
A fertilizer distributer comprising a wheel supported frame, right angle extensions formed on one end of the frame, spaced bars connected on the right angle extensions, a plate connected to the bars adjacent each end, brackets secured to the under sides of the plates, a horizontal shaft carried by the brackets and provided with a beveled gear on each end, a vertical shaft extending through each plate and provided on the top with a distributing disk and on the bottom with a beveled gear meshing with the beveled gear on the respective end of the horizontal shaft, means for rotating the horizontal shaft, a tank carried on the wheel supported frame, a nozzle leading from the tank and distributing pipes adjustably connected to the nozzle for adjustment over the upper faces of the distributing disks.

1,340,807. TELEPHONE-RECEIVER. AUGUSTUS UMHOLTZ, Port Carbon, Pa. Filed Apr. 7, 1918. Serial No. 288,016. 1 Claim. (Cl. 179—182.)



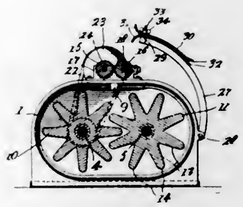
A sound conveying member having a concavity in one end thereof, and a plurality of radially disposed bores communicating with said cavity and opening at the periphery of said member, said bores being inclined in a direction away from the mouth of said cavity to have their outer ends spaced from the front edge of the member for the purpose specified.

1,340,808. CAR-AXLE LUBRICATOR. JOSÉ M. URBIETA, Del Rio, Tex. Filed Aug. 12, 1919. Serial No. 316,982. 6 Claims. (Cl. 64—34.)



1. In a car axle lubricator, an oil reservoir provided upon its bottom side with spaced longitudinal ribs having inner extensions at their outer ends and a supporting spring disposed between the ribs and having notches in opposite edges to receive the inner extensions of said ribs, whereby to hold the spring from longitudinal or lateral displacement.

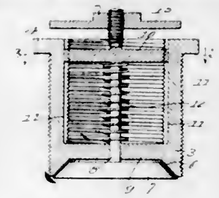
1,340,809. APPARATUS FOR TREATING KNITTED WEBS. FRANK SEMPLE WILCOX, Union, S. C. Filed June 26, 1919. Serial No. 306,909. 4 Claims. (Cl. 26—8.)



2. Apparatus for treating knitted webs comprising a pair of heavy solid cast segment wheels having perforated hubs and integral radial solid blades with beater surfaces formed at the outer free edges of the radial blades, and shafts going through said hubs for driving the wheels in opposite directions, the blades of the two wheels adapted to intermesh whereby the beater surfaces may travel in intersecting paths, substantially as described.

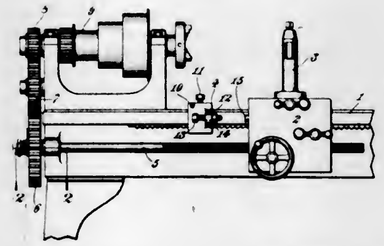
1,340,810. COMBINED BUSHING AND VALVE. JOHN ALBIN ANDERSON, Lockport, Ill. Filed July 10, 1918. Serial No. 244,260. 2 Claims. (Cl. 217—99.)

1. A device of the kind described comprising a hollow cylindrical body threaded both exteriorly and interiorly, the interior wall having longitudinal recesses formed at diametrically opposite points, the body having a valve seat formed at one end carrying a web positioned transversely thereacross and adjacent to the valve seat, a valve, a valve stem connected with the valve and passing slidingly through the web, a guide carried on the stem at the end remote from the valve, the guide having its ends in sliding engagement with the said recesses, a spring in



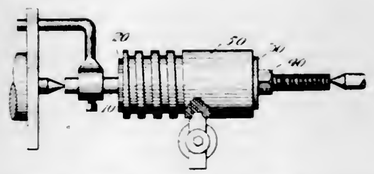
surrounding relation to the stem and compressed between the guide and the web, the stem being provided with a threaded extension at the end remote from the valve, and a disk engaged on said threaded end for axial movement along the stem to engage the cylindrical body on the end and lock the valve in closed position when not in use.

1,340,811. LATHE-STOPPING MECHANISM. EDWIN C. BALLMAN, St. Louis, Mo., assignor of one-half to Stahl A. Whitten, St. Louis, Mo. Filed Nov. 15, 1918. Serial No. 262,694. 2 Claims. (Cl. 82—21.)



1. In a lathe having a bed, a carriage movable therealong, driving mechanism, a feed shaft connected to automatically feed the carriage along the bed, characterized by the provision of a stop on the bed adapted to positively arrest the carriage, and a yielding coupling between the feed shaft and the driving mechanism adapted to suspend the operation of the shaft when the carriage is stopped.

1,340,812. PROCESS OF MANUFACTURING INSULATORS. PIERRE JOSEPH HENRI BERNARD, Montreal, Quebec, Canada. Filed May 29, 1919. Serial No. 300,053. 1 Claim. (Cl. 154—28.)



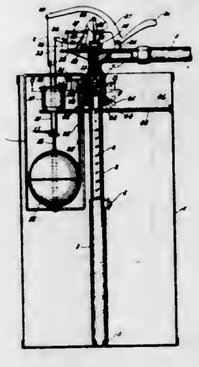
A process of making insulators consisting in arranging a plurality of mica sheets each containing a coating consisting of gum and rosin upon a supporting bar, repeatedly subjecting the mica sheets to heat and pressure whereby the gases from the coating of gum and rosin will escape and the mica sheets reduced to a solid consistency and then turning the resultant solidified mass on a lathe, to provide a continuous spiral groove for the reception of the resistance element.

1,340,813. PROCESS OF MANUFACTURING INSULATORS. PIERRE JOSEPH HENRI BERNARD, Montreal, Quebec, Canada. Filed Dec. 27, 1919. Serial No. 347,757. 1 Claim. (Cl. 219—63.)



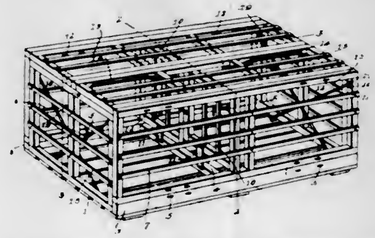
The method of manufacturing insulating cylinders which comprises wrapping the center tube in sheets of mica and asbestos in such manner that each layer of mica will be inclosed by a layer of asbestos.

1,340,814. WATER-CONTROLLING MECHANISM FOR ICE-CANS. THEODORE BIRKENMAIER, St. Louis, Mo. Filed Dec. 4, 1916. Serial No. 135,003. 4 Claims. (Cl. 226—127.)



1. A device for filling cans to a predetermined level from a source of water under pressure, comprising, a support adapted to be placed inside of the can, a supply pipe connection mounted on said support and provided with an outlet for delivering the liquid to the can, a valve for said outlet, means for closing said valve, a float mounted on said support and inside of the can, and an impact member adapted to be released by said float and operating to actuate said closing means in order to cut off the supply when the liquid reaches a predetermined level.

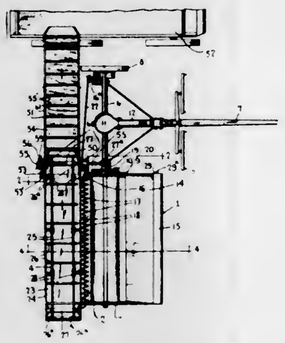
1,340,815. COLLAPSIBLE POULTRY-CRATE. DOUGLAS FRASER BLACK, Tofield, Alberta, Canada. Filed Feb. 12, 1919. Serial No. 276,586. 4 Claims. (Cl. 217—47.)



1. A collapsible crate including a base having longitudinal cleats on the edges thereof, one of said cleats being of a greater height than the other, side members hingedly secured to the cleats, top frames hingedly secured to the sides, spring pressed locking bolts carried by the latter, end members trunnioned on the cleats, inter-engaging means between the end members and the sides when the

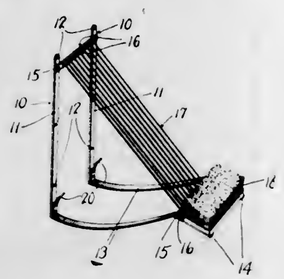
crate is in its set-up condition and said ends having sockets to receive the spring pressed bolts of the top frames, brace rods loosely connected to the base and designed to engage with the sides for sustaining said sides in set-up condition.

1,340,816. HARVESTER FOR EGYPTIAN CORN, MILO MAIZE, AND THE LIKE. RAYMOND A. BOTTS, Hanford, Calif. Filed July 21, 1919. Serial No. 312,174. 5 Claims. (Cl. 56—58.)



3. In a harvester for Egyptian corn, Milo maize and the like, an organized mechanism comprising a cutting apparatus, a fixed stalk bender arranged in front of the cutting apparatus and having a forward portion the forward side of which is rounded or convex, and also having a table extending rearwardly from the bottom of said forward portion, a reel disposed above the cutting apparatus and between same and the table of the stalk bender, a table arranged in rear of the cutting apparatus and reel, and an endless conveyer movable above said table.

1,340,817. COMB-CLEANER. IRWIN BRANDON, Naughton Glen, Alberta, Canada. Filed June 16, 1919. Serial No. 304,556. 1 Claim. (Cl. 132—17.)



An article of the class described comprising a frame including side bars formed of parallel vertical portions to provide attaching means, outwardly and upwardly inclined portions extending from the lower ends and forming a continuation of the vertical portions and reversely inclined extensions forming a continuation of and projecting from the outer ends of the inclined portions, transversely disposed notched spacing bars connecting the upper ends of the side bars and the outer ends of the inclined portions, strands of flexible material positioned in said notches and connecting the spacing bars, a brush carried by the reversely inclined extensions and parallel projections extending upwardly from the juncture of the vertical and inclined portions of the side bars and coöperating with said vertical portions to provide a rack.

1,340,818. FLEXIBLE TUBE. LOUIS H. BRINKMAN, Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation, a Corporation of New York. Filed Sept. 11, 1916. Serial No. 119,426. 13 Claims. (Cl. 137—75.)



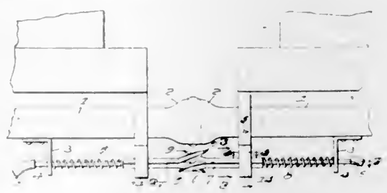
1. The combination with a corrugated tube depending for flexibility upon the bending of the metal to permit the corrugation sides to move toward and away from each other; of a flexible tubular structure outside said tube and coupling terminals secured to the ends of said structure.

1,340,819. COALING DEVICE. YSBRAND BROUWERS, Wageningen, Netherlands. Filed Oct. 21, 1919. Serial No. 332,340. 3 Claims. (Cl. 214—43.)



1. An apparatus for delivering coal to a moving train comprising a pair of uprights alongside the track, a shaft journaled in said uprights and extending across the track, a rotary container carried by said shaft and having a plurality of compartments therein, a hinged door for each compartment, latching means for each door, a trigger carried by one of the uprights for engaging the latching means to release the doors, means for actuating the trigger by the passing train and a motor for revolving the container.

1,340,820. AIR-HOSE COUPLING. CLARENCE M. BROWN, Minden, La. Filed Nov. 27, 1918. Serial No. 264,382. 2 Claims. (Cl. 285—58.)



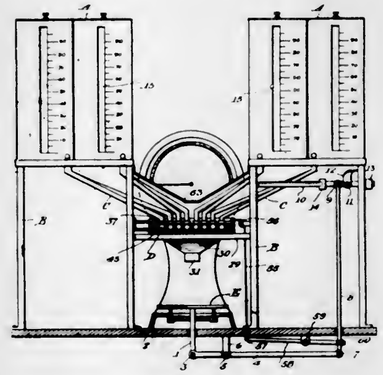
1. In a coupling for air hose, a Y-shaped coupling head formed with a hollow leg, the bore of which opens in the crotch between the diverging arms of the head, a tubular member connecting with the coupling head at the end of the leg remote from the arms, and L-shaped bracket for attachment to the draft bar of a car, one leg of the said L-shaped bracket being formed with a hole through which the tubular member slidably passes, a spring in surrounding relation to the tubular member and compressed between the bracket and that end of the leg of the coupling head with which the tubular member engages, a block with which the leg of the coupling head slidably engages but with respect to which it is secured against angular movement, a frame slidably supporting the block to permit lateral movement of the coupling head, and a second frame having means for attachment to the draft bar of a car and slidably supporting the first said frame to permit movement of the latter when up and down movement is imparted to the coupling head.

1,340,821. BELT-BUCKLE. SAMUEL BUCHSBAUM, Chicago, Ill. Filed May 8, 1919. Serial No. 295,595. 9 Claims. (Cl. 24—194.)



1. A device of the character described comprising a base plate having front and side walls, said side walls having inclined slots, and a movable clasp element having flattened projections slidably mounted in said slots, and adapted to clamp the free extremity of a belt tongue against said front wall, said flattened projections and slots permitting only a limited swinging movement of said clasp relatively to the plate.

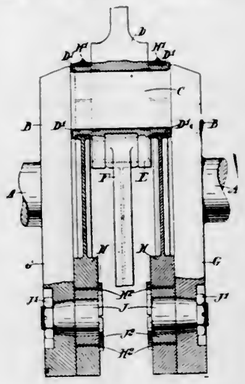
1,340,822. DISPENSING-MACHINE. ERNEST E. BUSHELL and MARION E. CONKLING, Lawton, Okla. Filed Nov. 20, 1918. Serial No. 263,386. 2 Claims. (Cl. 249—52.)



1. In dispensing apparatus, the combination with a plurality of bins, of a manifold embodying a lower plate having spaced openings and transverse guide flanges arranged between the openings and an upper plate arranged upon the guide flanges and spaced from the lower plate, said upper plate having spaced openings leading into the first named openings and having surrounding flanges, conduits connected with the bins and engaging the surrounding flanges, gates mounted to slide transversely between the flanges and having openings movable into and out of registration with the first named openings, handles connected with the gates to move them, rods connected with the gates and having shoulders, springs surrounding the rods to move them in one direction, a plurality of pivoted latches adapted to engage with the shoulders, yielding means to swing the latches in one direction so that they engage the shoulders, a scale embodying a dispensing platform arranged beneath the manifold, and connecting means between the platform and said latches.

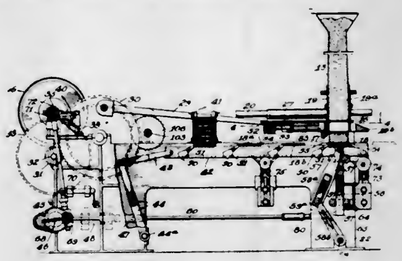
1,340,823. BALANCING OF ENGINES. LEONARD FREDERICK GEORGE BUTLER, Bristol, England, assignor of one-third to Albert Hubert Roy Feddon, and one-third to Cosmos Engineering Company Limited, Bristol, England. Filed Apr. 12, 1920. Serial No. 373,425. 3 Claims. (Cl. 74—5.)

1. In a reciprocating engine the combination of a piston, a crank-shaft, a connecting-rod coupling them together, a balance-weight rotatively mounted on that end of the connecting-rod which is secured to the crank-shaft, and means coupling said balance-weight to said crank-shaft to



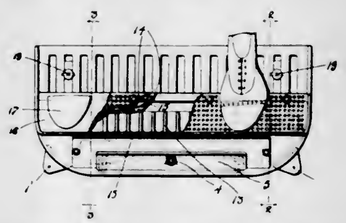
cause it to rotate therewith, but permitting free movement of said weight toward and away from the connecting-rod end.

1,340,824. APPARATUS FOR MAKING HOLLOW CONCRETE BRICKS AND OTHER ARTICLES. ALFRED OWEN CROZIER, New York, N. Y. Filed June 28, 1918. Serial No. 242,387. 29 Claims. (Cl. 25—45.)



29. In a machine for the manufacture of hollow cementitious products, in combination, a mold, means for closing the bottom of said mold, excavating devices movable into said mold, and mechanism for moving said first-named means to mold-closing position and subsequently operating said excavating devices.

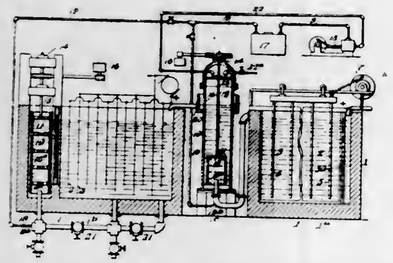
1,340,825. TOE-SOFTENER. FREDERICK M. FURBER, Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 11, 1916. Serial No. 119,493. 15 Claims. (Cl. 12—1.)



1. An apparatus of the character described comprising means forming a conduit for conducting hot vapor to the work and including a foraminous element for engaging that part of the work that is to be treated, and means for

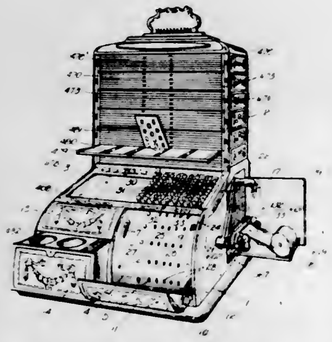
preventing the passage of vapor through said foraminous element when it is desired to heat the work without moistening it.

1,340,826. ELECTROLYTIC PROCESS. WILLIAM E. GREENAWALT, Denver, Colo. Original application filed Feb. 24, 1914, Serial No. 820,496. Divided and this application filed Mar. 19, 1915. Serial No. 15,583. 19 Claims. (Cl. 204—15.)



1. In the electrolysis of impure copper solutions the process which consists in precipitating copper sulfid from copper solutions, with hydrogen sulfid, and applying the copper sulfid precipitate to the electrolyte as a reducing agent.

1,340,827. ACCOUNTING-MACHINE. BENJAMIN P. HAYES and FRANK D. LAUGHLIN, Kansas City, Mo., assignors to Automatic Bookkeeping Register Company, Kansas City, Mo., a Corporation of Delaware. Filed Aug. 7, 1916. Serial No. 113,656. 82 Claims. (Cl. 235—2.)



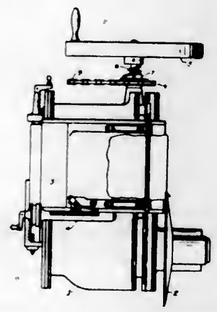
27. In combination with a reciprocatory selecting bar for each of a plurality of register members, a movable rack carrying member connected with each selecting bar, a rack on each carrying member adapted for operative engagement with a corresponding register member, a movable type carrier connected with each selecting bar, yielding means normally urging each selecting bar toward one limit of its travel, keyboard mechanism for selectively limiting movement of the selecting bars, main operating mechanism, means operable by the main operating mechanism coöperative with the type carriers to effect printing, a movable register shaft, register members on the shaft adapted for engagement with respective racks, a shipper member, a movable frame connected with the shipper member, means yieldingly urging the frame to retain the shipper member in and return the same to non-functional position, means operable by the main actuating mechanism for shifting said frame, and means operable by the shipper member for actuating said register shaft to move the register members to operative engagement with their racks.

1,340,828. IRRIGATOR SHUT-OFF. EDGAR HEAP, Detroit, Mich. Filed Feb. 17, 1919. Serial No. 277,553. 3 Claims. (Cl. 251—5.)



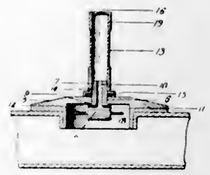
1. A device of the character described comprising a casting having an arc-shaped portion and an opening for the passage of a tube, a compressible tube extending through the opening in said casting, a swinging member journaled in said casting, a roller journaled in the swinging member adapted upon the manual operation of the swinging member to ride over the arc-shaped portion of the casting, whereby the tube may be compressed between the roller and the arc-shaped portion of the casting, the discharge of fluid through said tube being thereby cut off.

1,340,829. OPERATING MECHANISM FOR SLICING-MACHINES. ERNEST K. HOOD, Indianapolis, Ind.; Harriet H. Hood administratrix of said Ernest K. Hood, deceased. Filed Jan. 4, 1919. Serial No. 269,636. 2 Claims. (Cl. 74—7.)



1. The combination in a slicing machine of a band operating device; a power driven unit; a resilient connection between the slicing machine and the operating means; and means whereby the machine can be operated by either or both driving means, substantially as and for the purpose set forth.

1,340,830. TEMPERATURE-INDICATOR FOR AUTOMOBILE-RADIATORS. WILTON F. JENKINS, Richmond, Va. Filed May 3, 1919. Serial No. 294,536. 4 Claims. (Cl. 116—114.)



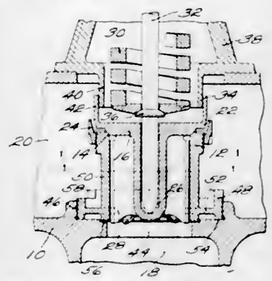
1. The combination with a radiator cap, of a tube extending therethrough and having an enlarged lower end providing a shoulder engaging against the under surface of the cap, the bore of the tube being branched at a point below the shoulder, a baffle plate arranged below the branches of the bore for preventing water being splashed into the tube and a cap tube arranged on the upper side of the radiator cap and engaging the first said tube and provided with a restricted port of a diameter less than the diameter of the first said tube.

1,340,831. ADJUSTABLE LINER FOR TYPE-CASTING MACHINES. GEORGE A. JONES, Baldwin, N. Y., assignor to Ordnance Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 15, 1919. Serial No. 277,124. 11 Claims. (Cl. 199—58.)



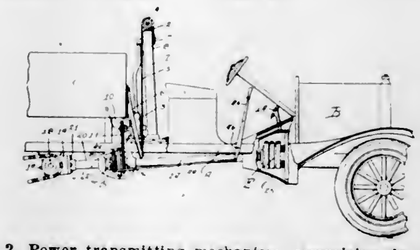
11. A liner for the mold of a type-casting machine comprising a part adapted to be fixed in a definite position on one side of the mold, and a part slidable thereon, said slidable part having extensions adapted to embrace said fixed part, one of said extensions being of a length to extend beyond said fixed part in certain positions of adjustment of said parts, and adapted to shut off all parts of the orifice in a pot from the end of the liner to one end of the orifice.

1,340,832. SAFETY-VALVE. JOHN G. LANNING, Detroit, Mich. Filed Dec. 20, 1917. Serial No. 208,156. 16 Claims. (Cl. 137—53.)



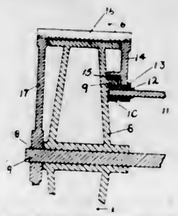
1. In a valve mechanism for controlling fluids at pressure and including an operatively-rigid, orifice-closing, liftable valve disk with governing means yieldingly pressing the same axially against an orifice-surrounding seat, thereby to close and permit opening of the valve, in combination; a rigid and operatively-incompressible, tubular member carrying said seat in a position to receive said disk in fluid-tight engagement therewith; and a relatively flexible and less rigid, annular, support web diaphragmatically disposed transverse the axis of said member and connecting the latter with a holding structure therefor.

1,340,833. POWER TRANSMISSION. RALPH LINDBLOOM, St. Paul, Minn. Filed Aug. 7, 1918. Serial No. 248,752. 3 Claims. (Cl. 180—53.)



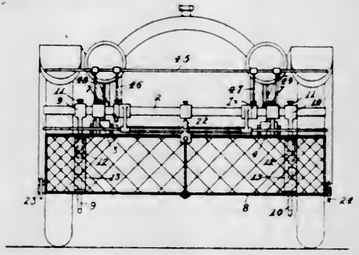
2. Power transmitting mechanism, comprising, in combination, with a self propelled vehicle having a drive shaft formed with driving and driven sections in longitudinal alinement, and having their ends abutting a pump mounted upon said vehicle to be driven by said shaft, a clutch interposed between said abutting sections of said shaft having a driving element coupled to said driving section and a pair of driven elements with either of which said driving clutch element is movable into driving connection, one of said driven clutch elements being connected with the driven section of said shaft and the other having a driving connection with said pump to operate the latter and means for shifting said driving clutch element into and out of clutch engaging positions.

1,340,834. MUD-LUG. BERTON M. MATHIAS, Minneapolis, Minn. Filed Mar. 14, 1918. Serial No. 222,484. 4 Claims. (Cl. 180—70.)



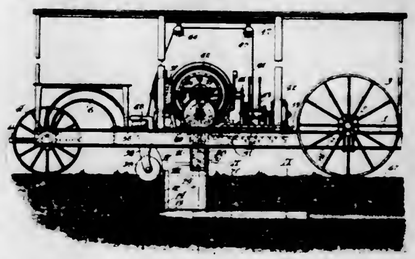
4. In a traction wheel the combination, with a power driven wheel, of a power driven squirrel cage positioned thereover, said squirrel cage being driven at a less number of revolutions per minute than said wheel.

1,340,835. FENDER FOR VEHICLES. EDGAR W. POHLIG, New York, N. Y. Filed May 26, 1919. Serial No. 299,918. 21 Claims. (Cl. 293—37.)



1. The combination of a bumper, a fender arranged to move vertically, means arranged to hold the fender normally in raised position, and a movable contact bar independent of the bumper and arranged to be engaged by an object struck and to be shifted thereby, the contact bar and fender being so arranged that the movement of the contact bar will effect the fall of the fender.

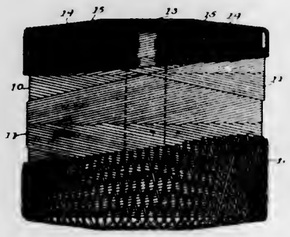
1,340,836. APPARATUS FOR MAKING AN UNDERGROUND PASSAGEWAY AND FOR MAKING AND LAYING A PIPE IN THE SAME. ROBERT POWELL, St. Louis, Mo. Filed Jan. 26, 1918. Serial No. 213,973. 9 Claims. (Cl. 111—5.)



8. A member for underground work comprising a body portion having a pointed front end and a rotatable ele-

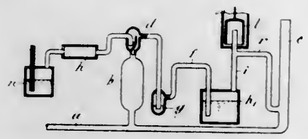
ment having a series of projections carried by said member, said projections of said rotatable element projecting beyond the periphery of said member.

1,340,837. TWINE-BALL. GEORGE L. RICE, Chicago, Ill., assignor, by mesne assignments, to International Harcester Company, a Corporation of New Jersey. Filed Jan. 31, 1918. Serial No. 214,754. 2 Claims. (Cl. 242—159.)



1. As an article of manufacture, a ball of twine consisting of a cylindrical body with flat ends and an axial opening and an open mesh cover-winding formed to leave an uncovered area at each end of the body around said opening.

1,340,838. GAS-ANALYSIS APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden, a Corporation. Original application filed Feb. 5, 1916, Serial No. 76,412. Divided and this application filed Nov. 23, 1918. Serial No. 263,914. 2 Claims. (Cl. 23—3.)



1. In automobile gas analysis apparatus for determining the volume of methane in a gas mixture, the combination of an oven containing an oxidizing reagent, a measuring receptacle for determining the volume of gas mixture delivered by said oven, an absorption receptacle for eliminating carbon dioxid from the gas mixture, and a second measuring receptacle for determining the volume of the gas mixture after the carbon dioxid has been eliminated.

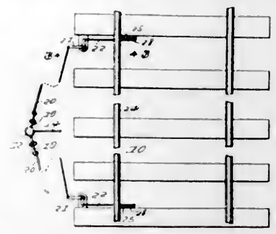
1,340,839. FLEXIBLE CORD. WILLIAM L. RUNZEL, Chicago, Ill., assignor to Runzel-Lenz Electric Mfg. Co., Chicago, Ill. Filed May 19, 1917. Serial No. 169,616. 2 Claims. (Cl. 173—264.)



1. A flexible conducting cord of the character described comprising two concentric helically wound conductors, the outer conductor being larger in cross section than the inner conductor to equalize the resistance of the two conductors.

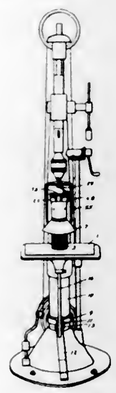
1,340,840. MAIL-DELIVERY APPARATUS. JOE RUSHING, Hickory Ridge, Ark. Filed May 24, 1919. Serial No. 299,590. (1 Claim. (Cl. 258—8.)

A mail delivery apparatus for railway trains having station mechanism including sack supporting arm, a casing by which the arm is pivotally supported, a stem inclosed by said casing and operatively connected with said arm for causing sack discharging movement thereof, a plunger located adjacent to the tracks, connections between said plunger and said stem whereby depression of the former will cause sack delivery movement of the stem, and train



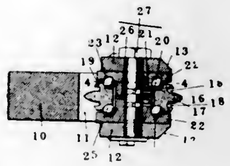
carried mechanism for engagement with said plunger, said casing being provided with a bayonet guide slot into one leg of which the arm may be swung to throw it out of operative position.

1,340,841. CENTERING DEVICE FOR PISTONS, &c. JAMES ARTHUR SCOTT, Los Angeles, Calif. Filed Mar. 24, 1919. Serial No. 284,750. 2 Claims. (Cl. 77—63.)



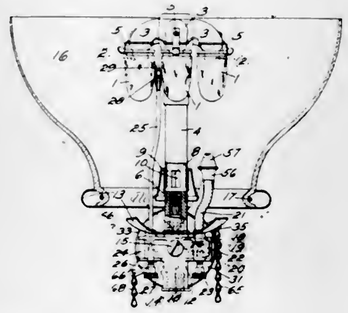
1. In a centering device for pistons and the like comprising a shank adapted to be inserted downwardly through a drill bed, an externally screw threaded post extending upwardly from the shank and resting upon the drill bed, a cone, screw seated upon the post, an expanding mandrel having gripping jaws mounted on the post, and the means for expanding the jaws of the mandrel.

1,340,842. SEAMING-ROLL. CHESLEY T. SMALL, St. Louis, Mo. Filed Feb. 19, 1919. Serial No. 278,051. 10 Claims. (Cl. 113—19.)



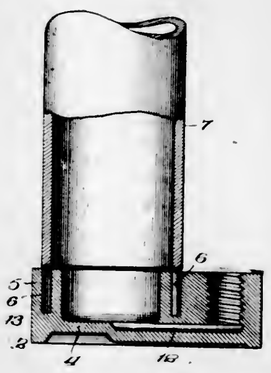
1. The combination with a recessed carrying member, of a pair of plates secured to said member and bridging the recess therein, a seaming roll provided with a central aperture, a central support carried by said plates and extending through the aperture in the seaming roll, and antifriction bearings interposed between said roll and said central support.

1,340,843. DELAYED CUT-OFF FOR BUNSEN GAS-BURNERS. RAYMOND D. SMITH, Boston, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed July 28, 1916, Serial No. 111,934. Renewed Aug. 12, 1919. Serial No. 317,097. 14 Claims. (Cl. 67—87.)



1. In a Bunsen gas burner arrangement, including a controlling gas valve for said burner, and a mixing chamber for the gas and air having openings for the entrance of air thereto, in combination; a normally inactive auxiliary burner operatively remote from the unburned gas in said mixing chamber; and manually operable and automatically acting mechanism operatively related to said valve and arranged to govern the flow of gas to said auxiliary burner, said mechanism including a thermostat arranged to be subjected to the heat from said auxiliary burner, and thereby to be made operative to cause a movement of said valve.

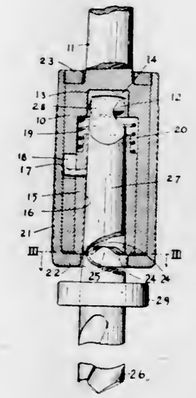
1,340,844. PROCESS FOR CONSTRUCTING AIR-PUMPS. ANDREAS M. SONNICHSEN, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,120. 4 Claims. (Cl. 29—148.)



1. The process for constructing an air pump having a base and a cylinder, which consists in providing said base with an annular socket having an outer diameter less than the external diameter of said cylinder, and then forcing the parts together to cause one end of said cylinder to enter said socket.

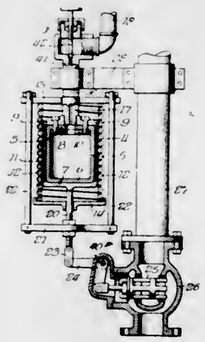
1,340,845. DRILL-CHUCK OR THE LIKE. ALBIN L. STRONG, Hoboken, N. J. Filed Apr. 12, 1919. Serial No. 289,718. 8 Claims. (Cl. 279—103.)

1. In a drill-chuck or the like, the combination of a socket-member having, at its closed end, an irregular recess, the walls of which may couple with the tang of a taper-shank drill, a spring-pressed, internally tapered, hollow cylindrical member guided in the socket for engaging the taper of the drill, a tubular handle fitted loosely,



against longitudinal movement, on said socket-member, and camming means between the handle and spring-pressed member, for the purposes set forth.

1,340,846. FEED-WATER-REGULATOR SYSTEM. VINCENT V. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1918. Serial No. 249,977. 6 Claims. (Cl. 137—101.)



1. In a feed-water regulator system the combination of a float feed-water regulator having a pilot valve; a vessel having elastic walls, said vessel being adapted to receive a fluid under pressure and to be materially elongated thereby and being operatively related to said pilot valve; a feed-water valve having a plunger; and means, comprising a rotatable member, connecting said plunger with said vessel.

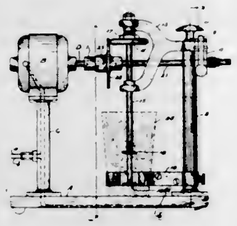
1,340,847. [WITHDRAWN.]

1,340,848. DOLL. GOTTFRIED J. BERNAU, New York, N. Y., assignor of one-half to Friedrich Bernau, Cöln-Kalk, Germany. Filed Nov. 11, 1919. Serial No. 337,165. 3 Claims. (Cl. 46—40.)



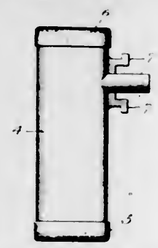
1. In a device of the class described, movable eyes, supporting members attached to said eyes, a beam member having its ends pivoted to the ends of said supporting members, eyelets on said beam, cords attached to said eyelets, a second set of eyelets inside the head of the doll, said cords passing through said second set, said cords operable to cause motion of said eyes in any direction.

1,340,849. DRINK-MIXER. JOHN V. BUCKLE, Salt Lake City, Utah, assignor of one-half to Edgar R. Dustin, Salt Lake City, Utah. Filed Dec. 1, 1919. Serial No. 341,706. 5 Claims. (Cl. 259—131.)



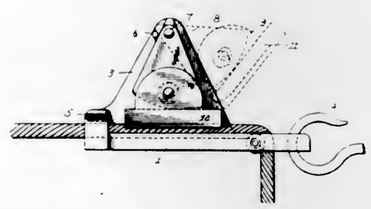
1. A drink mixer comprising an electric motor having a horizontal shaft and mounted on a base plate; one or more agitating units mounted on said base plate and detachably connected with the shaft of said motor, each of said units consisting of a supporting vertical standard; a sleeve slidable and rotatable therein; a plunger operable within said sleeve; means on said plunger to make and break an electric circuit in connection with said motor; a vertical agitating shaft supported on and operable with said sleeve; a horizontal shaft journaled for rotation at one end on said vertical standard and detachably connected with the shaft of said motor at its other end; and means to operatively connect said vertical shaft with the last mentioned horizontal shaft.

1,340,850. KEY AND CONTAINER. HARRY R. HOLBROOK, Attleboro, Mass. Filed Sept. 15, 1919. Serial No. 323,919. 2 Claims. (Cl. 70—9.)



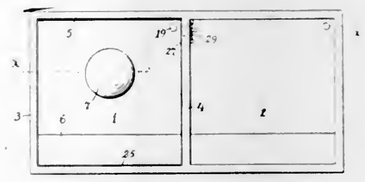
1. A comparatively flat hollow container formed from a blank of sheet metal having projections extending at opposite places from opposite margins and bent over to bring the margins into abutment and the projections together to constitute operating members for a lock.

1,340,851. LINE-LOCK. SIVERT N. LIND, Streator, Ill. Filed Nov. 26, 1919. Serial No. 340,773. 2 Claims. (Cl. 24—134.)



1. In a line lock, the combination of a stationary member, a channel formed in the lower end thereof, line confining means formed in the forward end of the member adjacent the channel, an opening formed in the rear end of the member adjacent the channel, a roller arranged in said opening, a cam fulcrumed to the member near its upper end, a member fulcrumed to the cam and having a base portion on which the cam bears, and a groove formed in the member.

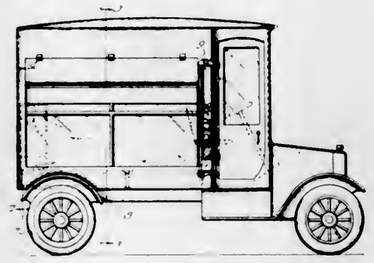
1,340,852. LAUNDRY-TUB. AAGOT M. NIELSEN, Boston, Mass. Filed June 8, 1915. Serial No. 32,846. 1 Claim. (Cl. 126—350.)



A laundry tub having a bottom and walls composed of thick lapidacious material, said bottom having a circular opening the wall of which is provided with an annular recess adjacent to the upper surface of the bottom, a sheet metal bottom section seated water-tight within the opening, said section having integral therewith a deep downwardly extending flange and a circular bead connecting the section to the flange, the flange fitting within the wall of the opening and the bead fitting within the annular recess, whereby the periphery of the bottom section is flush with the upper surface of the tub bottom, said bottom section being upwardly convex to permit drainage therefrom and to permit free expansion thereof when heated, and a heating means located within the flange.

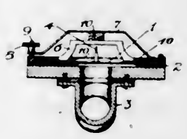
said flange constituting a flame guard and provided with perforations in its rear and lateral portions and being imperforate in its forward portions.

1,340,853. REFRIGERATOR DISPLAY VENDING-VEHICLE. PHILIP L. SERWE, Chicago, Ill., and GEORGE C. DICKEY, Seattle, Wash. Filed Mar. 25, 1919. Serial No. 285,121. 7 Claims. (Cl. 296—21.)



3. In a display vending vehicle, a body comprising a display case with transparent side and top along the curb side, an attendant's space along the case, said case and space being confined by suitable walls, a movable door extending at one side of and above the case adapted to be opened to expose the side and top of the display case to view along the curb side, and suitable refrigerating means for the display case, means controlled by the attendant from inside the body for opening and closing the door.

1,340,854. SOUND-BOX. EUGENE T. TURNEY, New York, N. Y., assignor of one-half to Ernest C. Wilcox, Meriden, Conn. Filed Dec. 30, 1919. Serial No. 348,333. 5 Claims. (Cl. 274—27.)



3. In a sound box, a diaphragm, a needle bar connected to the diaphragm at substantially the center, a bridge mounted on the diaphragm at separated points and overstanding the end of said needle bar, a yielding adjustable presser bar overstanding said bridge and coöperating therewith to vary the effective pressure of said bridge on the diaphragm.

1,340,855. COMPOSITION OF MATTER CONTAINING BITUMINOUS MATERIAL. JOHN M. WEISS, New York, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 8, 1919. Serial No. 336,672. 14 Claims. (Cl. 134—51.)

12. A composition of matter containing about 80 parts of pitch, 20 parts of petroleum naphtha and about 1 to 3 parts of tar acids.

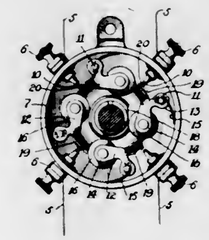
1,340,856. ATTACHMENT-PLUG. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 31, 1917. Serial No. 209,681. 6 Claims. (Cl. 173—359.)

4. An attachment plug comprising independent cap and body members, the body member having contacts at its entering end, binding screws extending parallel to the axis of the plug and taking into said contacts to establish electrical connections therewith, tapped bushings molded into the body piece on a plane substantially at right angles to the plane of the plug contacts, in combination with the



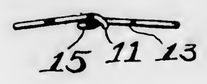
screws passing through said cap and taking into said tapped bushings to unite said cap and body members.

1,340,857. COMMUTATOR. OTTO KERSTEN, Detroit, Mich. Filed Nov. 25, 1918. Serial No. 264,002. 5 Claims. (Cl. 200—27.)



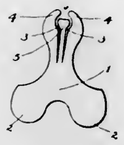
4. In a distributing commutator having a plurality of terminal contacts substantially uniformly spaced in a circular series substantially concentric with the axis of rotation of a shaft, and wherein the opposing coöperating contacts are movable toward and from such terminal contacts, a control element carried by and movable with the shaft, and means for supporting said movable contacts individually, said means including contact-carrying pivoted units corresponding in number to the number of terminal units each unit including a sheet-metal clevis having opposed apertured ears at one end to receive the unit pivot and having its opposite end formed to normally bear on the control element, an arm projecting from the clevis in a manner to produce therewith a general configuration in elevation approaching Y-shape, said arm carrying the movable contact, a pin forming the unit pivot, and a spring on said pin and coöperative with the unit and casing to normally maintain contact of unit and the control element.

1,340,858. HOOK-AND-EYE FASTENER. SAMUEL WM. YEATS, Monrovia, Calif. Filed Dec. 16, 1915, Serial No. 67,249. Renewed Apr. 14, 1920. Serial No. 373,989. 1 Claim. (Cl. 24—88.)



In combination, a pair of interlocking members, each having a contracted neck, a spring loop, a T-head, and opposed prongs in close proximity for attaching to a cloth fabric, said members being each formed of a single run of wire formed with angular turns, and said loops being bent at the tip so that the cloth fabric shall be smooth in the locked position of said interlocking members; the members being tilted to lock.

1,340,859. STAND FOR WATCHES. WILLIAM E. BECK, Birmingham, England. Filed Mar. 10, 1920. Serial No. 364,829. 1 Claim. (Cl. 211—24.)



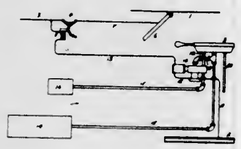
A watch support provided with a pair of spaced arms shaped in their opposing sides to fit opposite sides of a watch pendant, and with a strut, between said arms and of less length than said arms and arranged to bear, at its outer end, against one side of the pendant.

1,340,860. VIBRATOR. EDGAR N. GOODLETT, Chicago, Ill., assignor, by direct and mesne assignments, to Monolithic Machine Company, a Corporation of Illinois. Filed Apr. 25, 1919, Serial No. 292,729. Renewed Apr. 10, 1920. Serial No. 373,005. 8 Claims. (Cl. 25—41.)



2. In a device for the purposes described a fixed base; a supported frame adapted to oscillation; means consisting of a multiplicity of pivotal points adapted to effect a determined longitudinal movement; means adapted to communicate horizontal jarring motion.

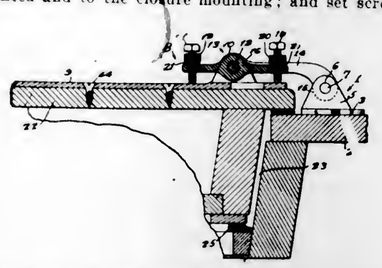
1,340,861. AUTOMATIC RAILWAY SAFETY CONTROL. LUI F. HELLMANN and WILLIAM W. BAXTER, Indianapolis, Ind., assignors to Air Brake Safety Appliance Co., Indianapolis, Ind., a Corporation. Filed May 14, 1919. Serial No. 297,107. 5 Claims. (Cl. 303—63.)



1. An automatic safety control comprised of a means for automatically applying brakes, said means comprised of a means for maintaining a normal passage from the operator's brake control valve to the brake mechanism in combination with a means for automatically closing the passage from the operator's brake control valve to the brake mechanism, a means for opening a passage from the air supply line to the brake mechanism, said means arranged to automatically operate when the pressure in the air supply system shall have fallen to a predetermined pressure, and a means for shutting off the motive power, said means arranged to operate automatically when the pressure in the air supply system shall have fallen to a predetermined pressure, substantially as described.

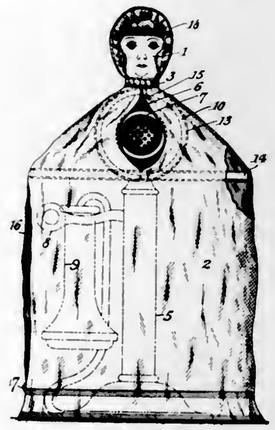
1,340,862. COLD-STORAGE-DOOR ADJUSTABLE HINGE. ANTON N. HORNUNG, Los Angeles, Calif. Filed Mar. 2, 1920. Serial No. 363,093. 3 Claims. (Cl. 16—11.)

2. A hinge comprising a mounting adapted to be attached to a casing; a mounting adapted to be attached to a closure; a coupling pivotally connected to the casing mounted and to the closure mounting; and set screws on



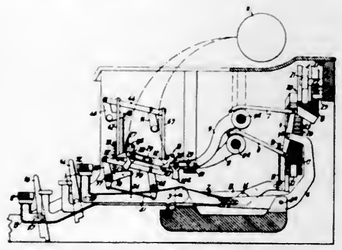
opposite sides of the bearings of the closure mounting to hold the coupling in rigid relation to said door closure.

1,340,863. ORNAMENTAL TELEPHONE-CONCEALING HOOD. HARRIET W. KNIGHT, New York, N. Y. Filed Nov. 7, 1919. Serial No. 336,519. 10 Claims. (Cl. 41—10.)



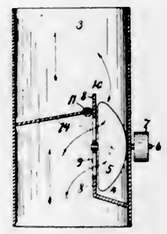
1. A hood for telephones comprising in combination, a skirt, a head member, and means for supporting said member and skirt on a desk telephone whereby the skirt surrounds the telephone and the head member projects upwardly therefrom.

1,340,864. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 27, 1917. Serial No. 204,157. 37 Claims. (Cl. 197—22.)



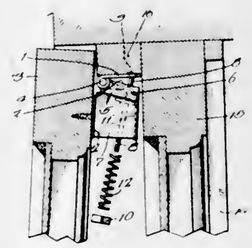
29. A type-action comprising a pair of type-bars side by side, a key connected to both, means for determining upon which type-bar the key shall act, and means to give a case-shift movement to the types upon said type-bars.

1,340,865. DRAFT-CREATING DEVICE. CORNELL FLAGSTAD, Minneapolis, Minn., assignor of forty-five per cent. to Henry Thorsgard and Knut Thorsgard and ten per cent. to Arthur Markve, Minneapolis, Minn. Filed Mar. 21, 1919. Serial No. 284,162. 3 Claims. (Cl. 110—162.)



1. The combination with a main draft pipe from a stove or other furnace, of a fan casing in one side of said pipe, a rotary fan mounted in the casing, and having a shaft extending through the side of the pipe, and outside thereof, provided with means for rotating it; said fan casing having a permanently open discharge outlet in its top, and a lateral intake opening in the side disposed toward the center of the pipe; a leaf-shaped valve hinged near above the intake opening and provided with a shaft in the hinged end, said shaft having a handle outside the pipe, and means for automatically holding said shaft in any desired position; said valve being arranged and adapted to close alternately either the said intake or the main passage through the pipe.

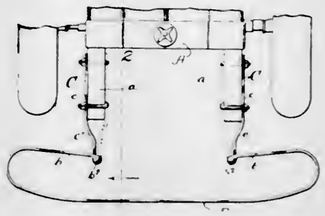
1,340,866. HINGE. EZRA E. WITTER, Zion City, Ill., assignor of one-third to Judson Post, Zion City, Ill. Filed Feb. 5, 1920. Serial No. 356,430. 3 Claims. (Cl. 16—48.)



2. A hinge having two leaves; a pintle carried by one leaf; a link pivotally connected with the other hinge leaf and coupling the same with said pintle whereby the hinge leaves may be moved with relation to each other at the hinge pintle; and a spring for forcing the hinge leaves together at the hinge pintle.

1,340,867. AUTOMOBILE-BUMPER. LLOYD W. DILWEG, Milwaukee, Wis. Filed Feb. 9, 1920. Serial No. 357,214. 6 Claims. (Cl. 293—55.)

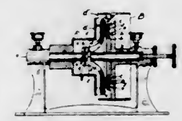
4. The combination of the side bars of an automobile frame, with reversible bumper connections having straight portions adapted to be clamped to the said side bars, and offset near their front ends, said reversible connections being provided with eyes at their front ends, and a bumper formed from a single strip of resilient material, the ends



of which are provided with eyes, with bolts passing through the eyes to unite the bumper to the connections.

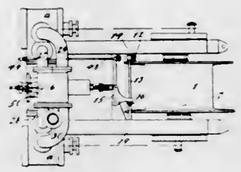
REISSUES.

14,857. CENTRIFUGALLY-GOVERNED CLUTCH-PULLEY. GROVER D. HARRIS, Menasha, Wis., assignor to U. S. Tractor & Machinery Company, a Corporation of Wisconsin. Filed Mar. 25, 1920. Serial No. 368,683. Original application filed June 25, 1915, Serial No. 36,170. Renewed Feb. 11, 1918, Serial No. 216,648. Original No. 1,284,192, dated Nov. 5, 1918. 7 Claims. (Cl. 74—45.)



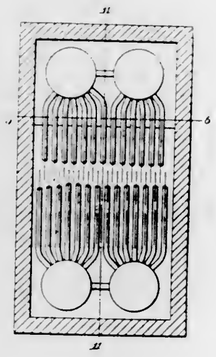
1. The combination with a pulley provided with an annular member having a friction bearing side face, a ring in frictional bearing contact with said side face, a second pulley provided with an interior cavity, a set of governing levers pivoted upon said second pulley near the rim of the first mentioned pulley and having arms projecting into said cavity adjacent to the axis, and projections on said levers loosely interlocked with said ring.

14,858. MARINE CABLEWAY. THOMAS SPENCER MILLER, South Orange, N. J. Filed Feb. 2, 1918. Serial No. 215,184. Original application filed May 5, 1908, Serial No. 430,991. Renewed Jan. 27, 1910, Serial No. 540,470. Original No. 1,028,897, dated June 11, 1912. 40 Claims. (Cl. 254—172.)



40. In combination, a vessel subjected to wave action, a drum thereon, a fluid presure operated engine therefor, a cable under tension actuated by said drum and extending therefrom over the waves to a distant point, and means automatically acting in accordance with the degree of tension of the cable for increasing the fluid pressure of the engine when the tension on the cable is reduced, and for decreasing the fluid pressure of the engine when the tension on the cable increases.

14,859. STEAM-BOILER. EGBERT R. MORRISON, Cleveland, Ohio. Filed Mar. 27, 1920. Serial No. 369,395. Original No. 1,304,998, dated May 27, 1919, Serial No. 45,950, filed Aug. 17, 1915. 2 Claims. (Cl. 122—352.)



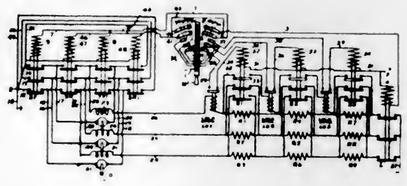
1. In a water tube boiler having a heating chamber through which the combustion products flow from front to rear; multiple drums located side by side in said chamber and extending lengthwise from front to rear therein, in the same general direction as that of the flow of the combustion products through said chamber; banks of tubes connected to said drums and standing beside each other in said chamber, the banks being so arranged in individual design and in relation to each other that all the alleys between the tubes and extending from front to rear in the same general direction as that of the flow of combustion products are, in the entire structure, or boiler, of practically the same size and shape, such an arrangement existing throughout the greater part of the tube length by reason of the manner of bending the tubes; the tubes being in parallel rows both transversely and longitudinally of the drums, the tubes of one row standing opposite the spaces between the tubes of another row, the transverse rows of tubes being separated by alternate wide and narrow spaces, thus resulting in these rows being largely or entirely grouped in pairs, two of the inner longitudinal rows of a bank straddling the center lines of the drums to which they are connected.

14,860. COMBINED SPINDLE AND CASING FOR MUSIC-ROLLS. MARSHALL B. PEAL, Brooklyn, N. Y. Filed Nov. 9, 1918. Serial No. 261,912. Original No. 1,245,377, dated Nov. 6, 1917, Serial No. 113,599, filed Aug. 7, 1916. 10 Claims. (Cl. 206—52.)



1. A music roll holder comprising a spindle adapted to receive the music roll wound thereon, a pair of heads carried by the spindle at the opposite ends thereof, an open ended casing in which the spindle and heads are received, one of said heads being of a size and shape to coöperate with the casing to close the open end of the casing, an extension projecting outwardly from the outer surface of said last mentioned head, and said extension being formed to serve the double purpose, first, as a finger grip by means of which to remove the spindle from the casing and, second, as a part to receive a coöperative portion of a player piano mechanism.

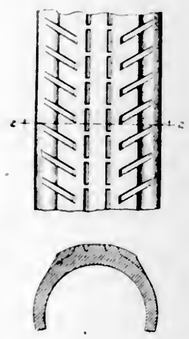
14,861. MOTOR-CONTROL SYSTEM. REUBEN I. WRIGHT, Wickliffe-on-the-Lake, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 9, 1920. Serial No. 372,685. Original No. 1,274,489, dated Aug. 6, 1918, Serial No. 162,891, filed Apr. 18, 1917. 7 Claims. (Cl. 172—179.)



2. In a motor control system, current supply mains, a plurality of motors arranged in parallel and having their rotary elements mechanically connected so as to rotate together, reversing switches arranged to connect the armature and field of each motor in series for each direction of rotation of the motor, a plurality of banks of starting resistance sections, each section being connected across the supply mains and in series with some of the motors, and means whereby, upon the operation of the reversing switches to reverse the motors, the only electrical path from one motor to another will be in series with two banks of resistance sections.

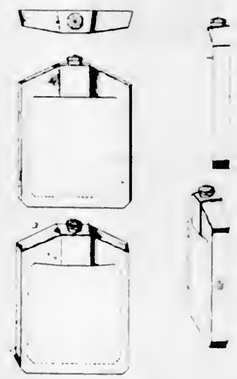
DESIGNS.

55,144. TIRE-TREAD. MAURICE LOUIS ALPHONSE AMÉ ALLARD, Akron, Ohio, assignor to The Overland Tire & Rubber Co., Omaha, Nebr., a Corporation of Nebraska. Filed Feb. 21, 1920. Serial No. 360,400. Term of patent 14 years.



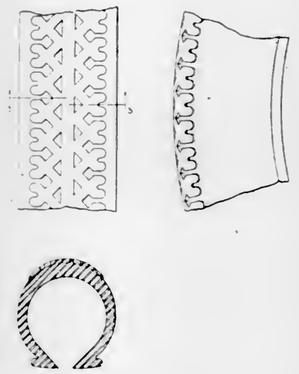
The ornamental design for a tire tread as shown.

55,145. RADIATOR. FRED E. BRADFIELD, Davenport, Iowa. Filed Oct. 20, 1919. Serial No. 332,116. Term of patent 7 years.



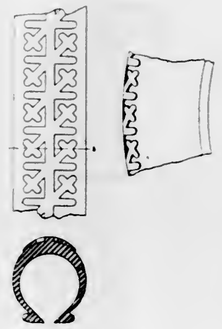
The ornamental design for a radiator, as shown.

55,146. TIRE-TREAD. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Dec. 11, 1919. Serial No. 344,146. Term of patent 7 years.



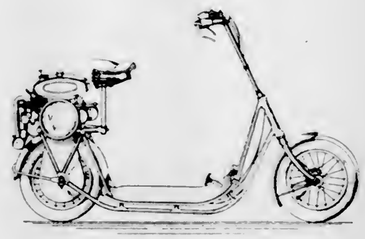
The ornamental design for a tire tread as shown.

55,147. TIRE-TREAD. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Dec. 11, 1919. Serial No. 344,147. Term of patent 7 years.



The ornamental design for a tire tread as shown.

55,148. MOTOR-SCOOTER. GILBERT CAMPLING, Purley, England, assignor to Gilbert Campling, Limited, London, England. Filed Sept. 30, 1919. Serial No. 327,602. Term of patent 14 years.



The ornamental design for a motor scooter as shown.

55,149. BELL FOR A BRASS-WIND INSTRUMENT. FOREST CHENEY, Grand Rapids, Mich., assignor of one-third to George Henry Bent, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 332,117. Term of patent 14 years.



An ornamental design for a bell for a brass wind instrument as shown.

55,150. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,551. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,151. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,552. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,152. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,553. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,153. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,554. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,154. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,555. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,155. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,556. Term of patent 7 years.





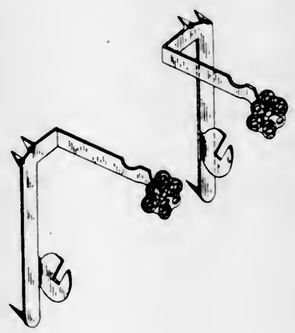
The ornamental design for a belt buckle frame, as shown and described.

55,156. SPRING SUPPORT AND HANGER. THOMAS DELIKAT, Newark, N. J. Filed Sept. 25, 1919. Serial No. 326,399. Term of patent 3½ years.



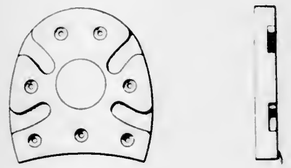
The ornamental design for a spring support and hanger as shown.

55,157. CURTAIN AND SHADE HANGER. MIKE DUBISH, Chicago, Ill. Filed Sept. 25, 1919. Serial No. 326,398. Term of patent 3½ years.



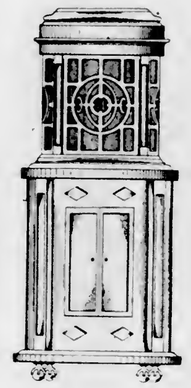
The ornamental design for a curtain and shade hanger, as shown.

55,158. SHOE-HEEL. WILLIAM E. DURHAM, Norfolk, Va., assignor to The Emory Rubber Sole Co., Inc., Norfolk, Va., a Corporation of Virginia. Filed Jan. 15, 1920. Serial No. 351,622. Term of patent 7 years.



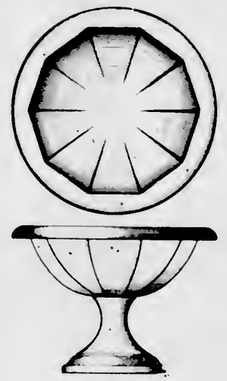
The ornamental design for a shoe heel as shown.

55,159. COMBINED PHONOGRAPH CASE AND CABINET. EDWIN FORREST, New York, N. Y. Filed Dec. 7, 1917. Serial No. 206,108. Term of patent 3½ years.



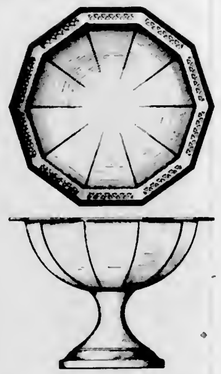
The ornamental design for a combined phonograph case and cabinet substantially as shown.

55,160. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 27, 1920. Serial No. 361,648. Term of patent 14 years.



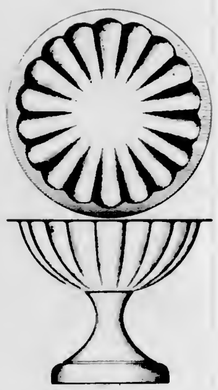
The ornamental design for an article of hollow tableware, as shown

55,161. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 27, 1920. Serial No. 361,649. Term of patent 14 years.



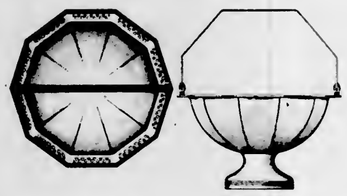
The ornamental design for an article of hollow tableware, as shown.

55,162. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 27, 1920. Serial No. 361,650. Term of patent 14 years.



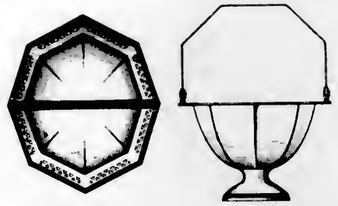
The ornamental design for an article of hollow tableware, as shown.

55,163. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 27, 1920. Serial No. 361,651. Term of patent 14 years.



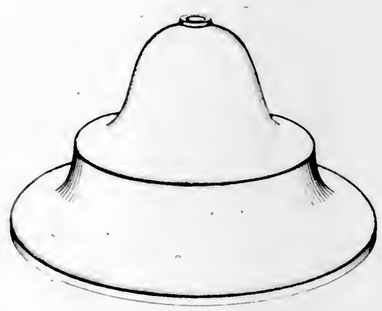
The ornamental design for an article of hollow tableware, as shown.

55,164. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y., assignor to Continental Sheffield Silver Co., Brooklyn, N. Y., a Firm. Filed Feb. 27, 1920. Serial No. 361,652. Term of patent 14 years.



The ornamental design for an article of hollow tableware, as shown.

55,165. CANOPY FOR A LAMP-GLOBE. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 6, 1920. Serial No. 363,844. Term of patent 14 years.



The ornamental design for a canopy for a lamp globe as shown and described.

55,166. CANOPY FOR A LAMP-GLOBE. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 6, 1920. Serial No. 363,845. Term of patent 14 years.



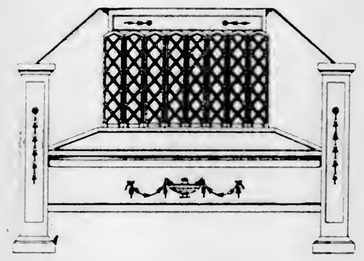
The ornamental design for a canopy for a lamp globe as shown and described.

55,167. CANOPY FOR A LAMP-GLOBE. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 11, 1920. Serial No. 365,070. Term of patent 14 years.



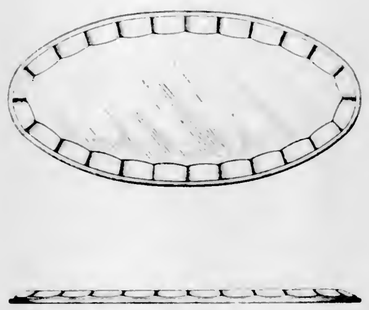
The ornamental design for a canopy for a lamp globe as shown and described.

55,168. GAS-HEATER. JOHN H. GRAYSON, Athens, Ohio. Filed Dec. 29, 1919. Serial No. 348,193. Term of patent 14 years.



The ornamental design for a gas heater, as shown.

55,169. AUTO-CURTAIN WINDOW. REUBEN HALEY, Beaver, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,323. Term of patent 14 years.



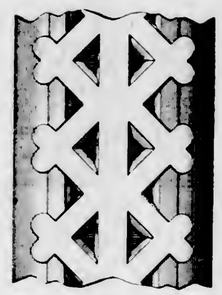
The ornamental design for an auto curtain window, substantially as shown.

55,170. FRAME FOR A SPRINKLER-HEAD OR SIMILAR ARTICLE. JOHN R. HAMILTON, Yonkers, N. Y., assignor to Automatic Sprinkler Company of America, New York, N. Y., a Corporation of New York. Filed July 22, 1919. Serial No. 312,580. Term of patent 14 years.



The ornamental design for a frame for a sprinkler head or similar article, substantially as shown.

55,171. TREAD OF A PNEUMATIC-TIRE CASING. JOHN L. HANLEY, Chicago, Ill. Filed May 12, 1919. Serial No. 296,704. Term of patent 14 years.



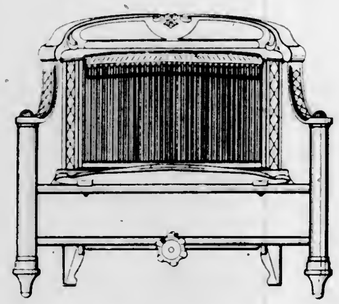
The ornamental design for a tread of a pneumatic tire casing, as shown.

55,172. SEEPAGE INTERCEPTING ATTACHMENT FOR DASHBOARDS. HARRY HOFFMAN and LOUIS HOFFMAN, Philadelphia, Pa. Filed Oct. 16, 1919. Serial No. 331,190. Term of patent 14 years.



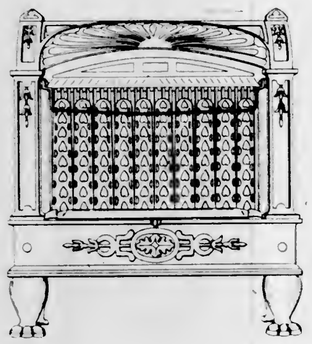
The ornamental design for a seepage intercepting attachment for dashboards, as shown.

55,173. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,140. Term of patent 14 years.



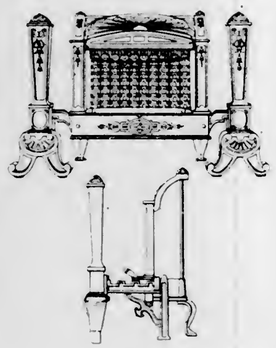
The ornamental design for a gas stove as shown.

55,174. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,141. Term of patent 14 years.



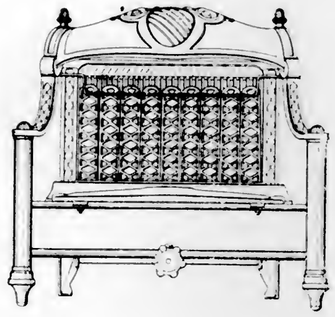
The ornamental design for a gas stove as shown.

55,175. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,142. Term of patent 14 years.



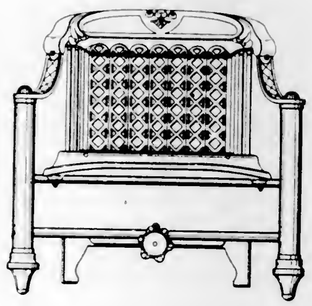
The ornamental design for a gas stove as shown.

55,176. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,143. Term of patent 14 years.



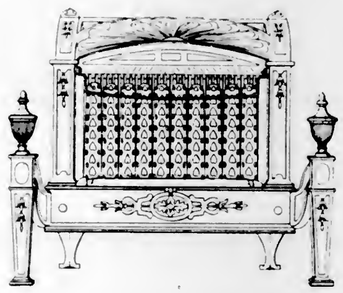
The ornamental design for a gas stove as shown.

55,177. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,144. Term of patent 14 years.



The ornamental design for a gas stove as shown.

55,178. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,145. Term of patent 14 years.



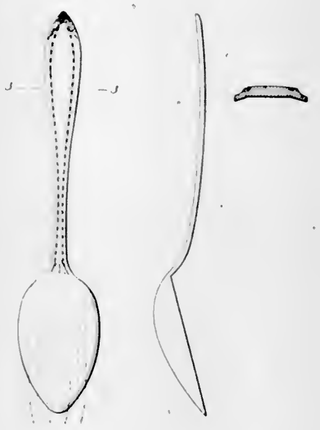
The ornamental design for a gas-stove as shown.

55,179. CASING FOR WATER-HEATERS. RUFUS J. HUTCHINS, Dayton, Ohio, assignor to The Dayton Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 23, 1919. Serial No. 325,777. Term of patent 14 years.



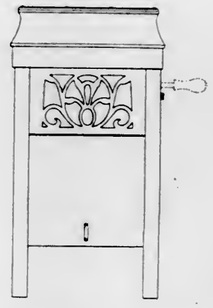
The ornamental design for a casing for water heaters, as shown and described.

55,180. SPOON, FORK, OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed Nov. 28, 1919. Serial No. 341,320. Term of patent 7 years.



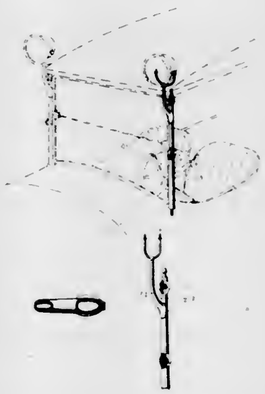
The ornamental design for a spoon, fork or similar article, as shown.

55,181. PHONOGRAPH-CASING. GEORGE R. KUNKLE, Elyria, Ohio, assignor to The Garford Manufacturing Company, Elyria, Ohio, a Corporation of Ohio. Filed Dec. 1, 1919. Serial No. 341,813. Term of patent 14 years.



The ornamental design for a phonograph casing as shown.

55,182. HEADLIGHT-BRACKET. JOSEPH LOUIS PHILIPPE LANDRY, Mont Joli, Quebec, Canada. Filed Mar. 22, 1919. Serial No. 284,509. Term of patent 14 years.



The ornamental design for a headlight bracket as shown.

55,183. CANDELABRUM. SETH HOWARD LEAVENWORTH, Rochester, N. Y., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Filed Mar. 5, 1920. Serial No. 363,586. Term of patent 7 years.



The ornamental design for a candelabrum, as shown.

55,184. CANDELABRUM. SETH HOWARD LEAVENWORTH, Rochester, N. Y., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Filed Mar. 5, 1920. Serial No. 363,588. Term of patent 7 years.



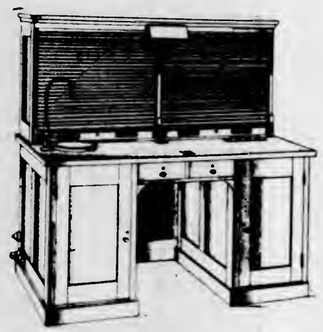
The ornamental design for a candelabrum as shown.

55,185. CANDELABRUM. SETH HOWARD LEAVENWORTH, Rochester, N. Y., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Filed Mar. 5, 1920. Serial No. 363,587. Term of patent 7 years.



The ornamental design for a candelabrum as shown.

55,186. PHYSICIAN'S TABLE. THEODLF LIDBERG, Chicago, Ill., assignor to Chicago Surgical & Electrical Company, Chicago, Ill., a Corporation of Illinois. Filed July 13, 1918. Serial No. 244,826. Term of patent 14 years.



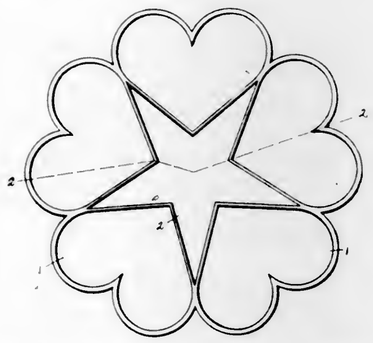
The ornamental design for a physician's table, as shown.

55,187. COOKER-POT. WALTER LUTTRINGHAUS, Maywood, Ill. Filed Feb. 10, 1917. Serial No. 147,955. Term of patent 14 years.



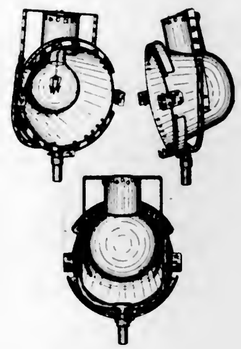
The ornamental design for a cooker pot as shown.

55,188. COOKING-RECEPTACLE. CHARLES A. MASSING, Millcreek township, Erie county, Pa., assignor to Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Jan. 27, 1919. Serial No. 273,496. Term of patent 14 years.



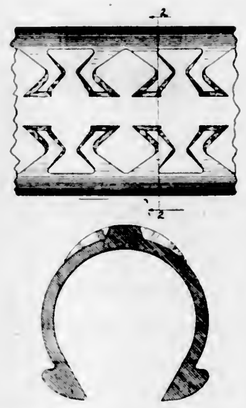
The ornamental design for a cooking receptacle as shown.

55,189. CASING FOR A STAGE FLOOD LIGHT. RUSH MCCARGAR, Seattle, Wash. Filed Dec. 13, 1919. Serial No. 344,602. Term of patent 7 years.



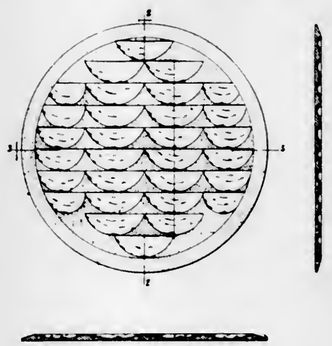
The ornamental design for a casing for a stage flood light, as shown.

55,190. TIRE-TREAD OR SIMILAR ARTICLE. GEORGE C. MCCONNELL, Massillon, assignor to Fidelity Tire & Rubber Co., Massillon, Ohio, a Corporation of Illinois. Filed Dec. 5, 1919. Serial No. 342,843. Term of patent 14 years.



The ornamental design for a tire tread or similar article as shown.

55,191. LENS. ALPHONS G. MILLER and CHARLES MCMULLEN, Flemington, N. J. Filed Dec. 30, 1919. Serial No. 348,501. Term of patent 14 years.



The design for a lens, substantially as shown.

55,192. PURSE. CHARLES ARTHUR NICHTHAUSER, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,279. Term of patent 3½ years.



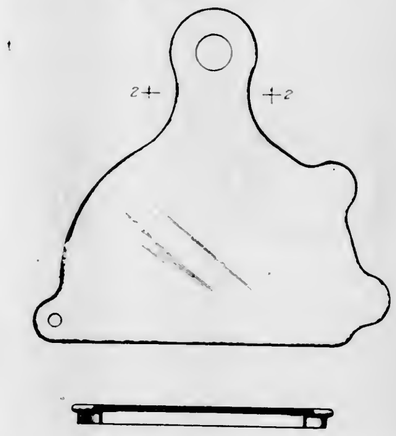
The ornamental design for a purse, as shown.

55,193. PURSE. CHARLES ARTHUR NICHTHAUSER, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,280. Term of patent 3½ years.



The ornamental design for a purse, as shown.

55,194. TOP PLATE FOR A PHONOGRAPH-MOTOR. MARTIN NYSTROM, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 3, 1919. Serial No. 342,277. Term of patent 14 years.



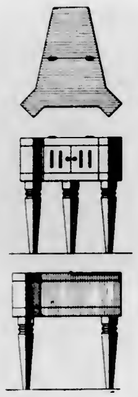
The ornamental design for a top plate for a phonograph motor as shown.

55,195. LAMP-SHADE. RAYMOND V. OWEN, St. Louis, Mo., assignor to Luminous Unit Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 19, 1920. Serial No. 359,940. Term of patent 14 years.



The ornamental design for a lamp shade as shown.

55,196. PHONOGRAPH-CASING. SIGRID L. M. PEARSON, Chicago, Ill. Filed Mar. 5, 1920. Serial No. 363,572. Term of patent 14 years.



The ornamental design for a phonograph casing, as shown.

55,197. BELT-CLASP. WILLIAM E. ROUNSEVILLE, Attleboro, Mass., assignor to C. A. Marsh and Company, Attleboro, Mass., a Firm. Filed Feb. 24, 1920. Serial No. 360,992. Term of patent 7 years.



The ornamental design for a belt clasp, as shown.

55,198. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,534. Term of patent 14 years.



The ornamental design for a belt buckle frame, as shown.

55,199. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,535. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,200. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,536. Term of patent 7 years.



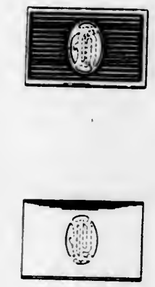
The ornamental design for a belt buckle frame, as shown and described.

55,201. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,537. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,202. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,538. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,203. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,539. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,204. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,540. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,205. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,541. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,206. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,542. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,207. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,543. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,208. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,544. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,209. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,545. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,210. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,546. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,211. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,547. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

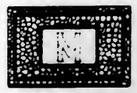
55,212. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,548. Term of patent 7 years.





The ornamental design for a belt buckle frame, as shown and described.

55,213. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,549. Term of patent 7 years.





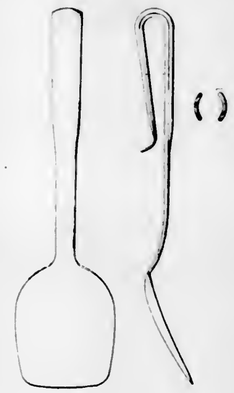
The ornamental design for a belt buckle frame, as shown and described.

55,214. COLLAR-CLIP. KARL STAUFENBEIL, Dubuque, Iowa. Filed Dec. 26, 1919. Serial No. 347,610. Term of patent 7 years.



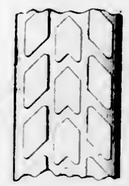
The ornamental design for a collar clip as shown.

55,215. ICE-CREAM SCOOP. VERNON TALBOT, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed Nov. 28, 1919. Serial No. 341,327. Term of patent 7 years.



The ornamental design for an ice cream scoop, as shown.

55,216. TIRE. JOHN TENNEY, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation, a Corporation of Delaware. Filed Jan. 22, 1919. Serial No. 272,584. Term of patent 14 years.





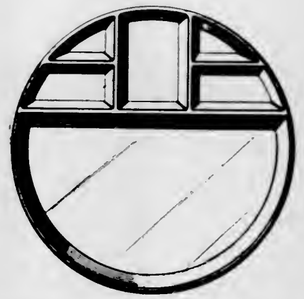
The ornamental design for a tire, as shown.

55,217. PHONOGRAPH. WALTER THORPE, Mount Vernon, N. Y., assignor to The Electric Phonograph Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 18, 1920. Serial No. 366,998. Term of patent 14 years.



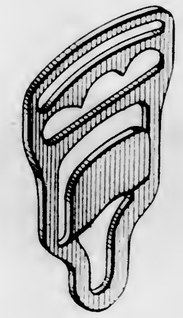
The ornamental design for a phonograph, substantially as shown.

55,218. SERVING-PLATE. CLARA TORGESON, Radium, Minn. Filed July 19, 1918. Serial No. 245,784. Term of patent 14 years.



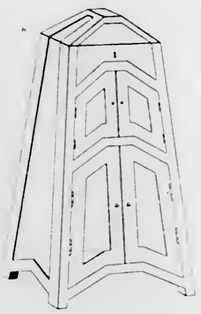
The ornamental design for a serving plate, as shown.

55,219. BRASSIÈRE-HOOK. DE VER C. WARNER and FRANK L. LANGHAMMER, Bridgeport, Conn., assignors to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 4, 1920. Serial No. 356,238. Term of patent 14 years.



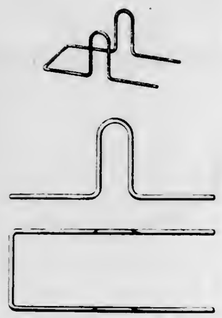
The ornamental design for a brassière hook as shown.

55,220. PHONOGRAPH-CABINET. JACOB H. WEBER, Brooklyn, N. Y. Filed Mar. 6, 1920. Serial No. 363,837. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown and described.

55,221. LOOSE-LEAF-PAD-CALENDAR HOLDER. FRANK A. WEEKS, Plainfield, N. J. Filed Feb. 21, 1919. Serial No. 278,548. Term of patent 14 years.



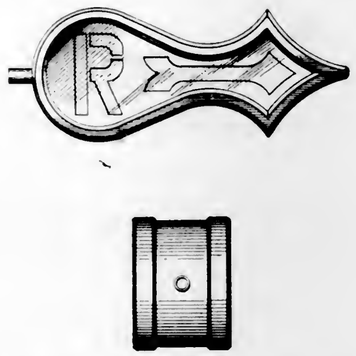
The ornamental design for a loose-leaf pad-calendar holder, as shown.

55,222. DISH OR RECEPTACLE. JERE L. WENTZ, Passaic, N. J. Filed Sept. 13, 1919. Serial No. 323,660. Term of patent 14 years.



The ornamental design for a dish or receptacle, as shown.

55,223. MOTOR-VEHICLE SIGNAL. FRED A. WESCOTT, Corning, N. Y. Filed Oct. 6, 1919. Serial No. 328,909. Term of patent 3½ years.



The ornamental design for a motor vehicle signal as shown.

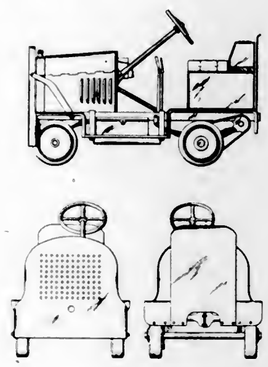
55,224. MOTOR-VEHICLE SIGNAL. FRED A. WESCOTT, Corning, N. Y. Filed Oct. 6, 1919. Serial No. 328,910. Term of patent 3½ years.





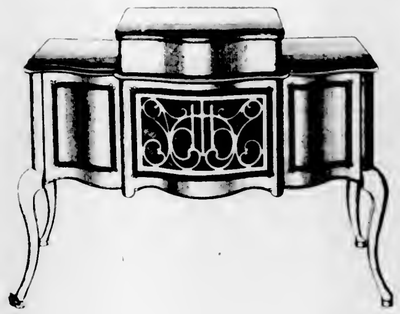
The ornamental design for a motor vehicle signal as shown.

55,225. TRACTOR. RICHARD L. WILLIAMSON, Oakland, Calif. Filed Nov. 28, 1919. Serial No. 341,326. Term of patent 7 years.



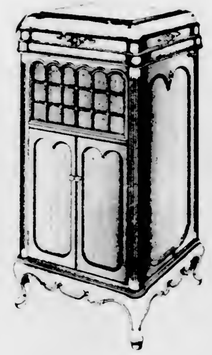
The ornamental design for a tractor substantially as shown.

55,226. TALKING-MACHINE CABINET. HARRY B. WOLPER, Chicago, Ill., assignor to Nightingale Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1920. Serial No. 363,579. Term of patent 14 years.



The ornamental design for a talking machine cabinet, as shown.

55,227. TALKING-MACHINE CABINET. HARRY B. Wolper, Chicago, Ill., assignor to Nightingale Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1920. Serial No. 363,580. Term of patent 14 years.



The ornamental design for a talking machine cabinet, as shown.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 90,102. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TILDEX PRODUCE CO., St. Paul, Minn. Filed Oct. 25, 1915.



Particular description of goods.—Fresh Eggs.
Claims use since April, 1914.

Ser. No. 95,518. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. B. FOSTER, Biloxi, Miss. Filed May 29, 1916.



Particular description of goods.—Canned Shrimp.
Claims use since Jan. 1, 1915.

Ser. No. 100,978. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STEARYTE CO. INC., New York, N. Y. Filed Jan. 26, 1917.

STEARYTE

Particular description of goods.—Stearate of Zinc, as Employed by Manufacturers of Toilet Preparations.
Claims use since Nov. 1, 1916.

Ser. No. 102,673. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MAURICE SOLOMON, Cincinnati, Ohio. Filed Apr. 2, 1917.

KLEENZIT

Particular description of goods.—A Liquid Cleansing Compound for Removing Grease-Spots from Fabrics.
Claims use since Dec. 1, 1916.

Ser. No. 104,935. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) FRED KRUG PRODUCTS CO., Omaha, Nebr. Filed July 9, 1917.

Luxus

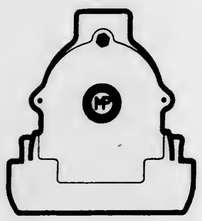
Particular description of goods.—Non-Intoxicating Malt Beverages Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, to be Sold as Soft Drinks.
Claims use since June 27, 1917.

Ser. No. 105,802. (CLASS 39. CLOTHING.) HEAD-LIPSCOMB-MCCORMICK CO., Bristol, Va. Filed Aug. 22, 1917.

BIG JACK

Particular description of goods.—Overalls, Work Shirts, and Dress-Shirts.
Claims use since Feb. 5, 1910.

Ser. No. 107,028. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MEISEL PRESS MANUFACTURING COMPANY, Boston, Mass. Filed Oct. 30, 1917.



Particular description of goods.—Printing-Presses, Bed-Plates and Grips for Printing-Presses, Pad-Cutters for Cutting-Pads or Blocks of Paper, Casting-Boxes for Printing-Plate Making, Shaving-Machines for Truing up Printing-Plates by Planing or Shaving the Surface, Tail-Trimmers or End-Cutters and Matrix-Rolling Machines for Stereoplates and Bending-Machines for Electroplates, and Paper Slitters and Rewinders.
Claims use since Oct. 17, 1917.

Ser. No. 108,337. (CLASS 37. PAPER AND STATIONERY.) ANGIER MILLS, Ashland, Mass. Filed Jan. 7, 1918.

As indicated in the drawing, the elliptical ground of the mark is blue. Applicant disclaims the exclusive right to a label colored blue.
Particular description of goods.—Waterproof Wrapping and Lining Paper.
Claims use at least as early as and as nearly as can be ascertained since November, 1913.

Ser. No. 109,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALONE & HYDE, Memphis, Tenn. Filed Mar. 14, 1918.

The Lure of the Wild

Particular description of goods.—Cane-Syrup for Table Use.
Claims use since Jan. 10, 1918.

Ser. No. 110,148. (CLASS 37. PAPER AND STATIONERY.) ROSENBLUM & KERN, New York, N. Y. Filed Apr. 12, 1918.

Arkay

Particular description of goods.—Memorandum-Books.
Claims use since Mar. 1, 1918.

Ser. No. 111,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLDENWEST CITRUS ASSN., Tustin, Calif. Filed May 22, 1918.

CORPORAL

Particular description of goods.—Citrus Fruits—Namely, Fresh Oranges, Fresh Lemons, and Fresh Grape-Fruit.
Claims use since April 23, 1918.

Ser. No. 111,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMBORN & CO., New York, N. Y. Filed June 29, 1918.



Particular description of goods.—Sugar, American Wheat-Flour, and Tea.
Claims use since April, 1918.

Ser. No. 112,773. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MAE SHERMAN, Cleveland, Ohio. Filed Aug. 17, 1918.



JAPANA

The portrait is a fanciful picture.
Particular description of goods.—A Liquid Polish for Furniture.
Claims use since on or about September, 1912.

Ser. No. 112,949. (CLASS 37. PAPER AND STATIONERY.) THE PAPER MILLS' COMPANY, Chicago, Ill. Filed Aug. 28, 1918.

BEACON

Particular description of goods.—Writing and Printing Paper and Writing-Tablets.
Claims use since January, 1900.

Ser. No. 113,225. (CLASS 12. CONSTRUCTION MATERIALS.) THE MASTER BUILDERS COMPANY, Cleveland, Ohio. Filed Sept. 18, 1918.

MasterMix

Particular description of goods.—A Liquid Preparation to be Incorporated with or Applied to Cement and Concrete for the Purpose of Controlling and Accelerating Its Setting; Increasing Its Hardness, Tensile Strength, and Durability; Rendering the Resulting Product Impervious to Water, and Preventing Its Freezing during Winter Construction.
Claims use since about Aug. 2, 1918.

Ser. No. 113,297. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MCINTOSH BATTERY AND OPTICAL CO., Chicago, Ill. Filed Sept. 21, 1918.

UNIVERSALMODE

Consisting of the word "Universalmode."
Particular description of goods.—Sets of Apparatus for Generating, Controlling, and Applying Electric Current for Therapeutic Purposes, Consisting of Generators, Rotors, Gearing, Rheostats, Measuring Instruments, Coils, Interrupters, Transformers, Air-Pumps, Vibrators, and Applicators for Electrotherapeutic Treatments.
Claims use since May 1, 1914.

Ser. No. 113,493. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MASCHINENFABRIK SCHWEITER A.-G., Horgen, Switzerland. Filed Sept. 30, 1918.



Particular description of goods.—Textile Machinery and Apparatus, Accessories for the Textile Industry, and Parts for Shafting and Gearing—Namely, All Sorts of Spooling-Machines, Winding-Machines, Twisting-Machines, Machines to Make Hanks or Skeins, Warping-Machines, Swifts, Apparatus for Cleaning, Waxing Apparatus, Moistening and Greasing Apparatus, Thread-Guides, Spindles, Spools and Tubes as Machine Elements; Special Machines and Apparatus, Such as Machines for Polishing Reeds; Selvage Apparatus, and Regulators.
Claims use since May 18, 1918.

Ser. No. 114,536. (CLASS 37. PAPER AND STATIONERY.) FOREST PAPER COMPANY, INC., New York, N. Y. Filed Dec. 7, 1918.

DIRECTOR

Particular description of goods.—Writing and Printing Bond-Paper, Ledger-Paper, Writing-Paper, and Mailing-Envelops.
Claims use since on or about Aug. 1, 1918.

Ser. No. 114,642. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHESAPEAKE IRON WORKS, Baltimore, Md. Filed Dec. 14, 1918.



Particular description of goods.—Cranes.
Claims use since Aug. 1, 1918.

Ser. No. 115,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. WEINBERG BAKING CO., Cincinnati, Ohio. Filed Jan. 6, 1919.

AMERICAN GIRL

Particular description of goods.—Bread.
Claims use since Oct. 7, 1918.

Ser. No. 115,238. (CLASS 12. CONSTRUCTION MATERIALS.) DAVID BERNSTEEN, Cleveland, Ohio. Filed Jan. 17, 1919.

MARVELSEAL

No claim is made to the word "Seal" apart from the mark shown in the drawing.
Particular description of goods.—Liquid Fiber Roofing-Cement.
Claims use since February, 1916.

Ser. No. 115,377. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AKTIEBOLAGET INGENIORSFIRMAN G. A. LINDSTEDT & CO., Stockholm, Sweden. Filed Jan. 22, 1919.

Galco

Particular description of goods.—Transmission-Shafts for Machinery, Hand-Bellows, Machine Blowing-Engines, Machinery for Compressing Air, Scraping-Tools for Lining Bearings and Valves, Reamers, Fire-Engines, Port-

able Fire-Extinguishers, Hand-Operated Chemical Fire-Extinguishers and Chemical Fire-Engines, Vertical and Horizontal Boring-Mills, Boring Bits and Augers, Sensitive Upright Gang and Radial Drilling-Machines, Metal Bending and Shaping Machines, Cutter-Heads; Centering Apparatus for Shafts, Pulleys, and Rotating Machine Parts; Lifting Jacks, V-Blocks and Parallel Blocks for Machine-Shop Practice and Hoisting-Blocks, Buffing-Machines and Polishing-Machines, Centering Molding-Machines; Reversing-Gears, with and without Clutches, for Use on Machine-Tools; Overhead Trolley Systems for Conveying and Transporting Material, Metal Wire-Drawing Machines, Diamonds and Draw-Plates Used in Wire-Drawing Machines; Steam, Pneumatic and Hydraulic Ejectors and Injectors; Chisels, Knives, Axes, Hatchets, Adzes, Boring-Drills, Planers, Shapers, Gear-Cutting Machines, Machine-Shears, Pickaxes, Taps and Dies for Cutting Threads on Pipes, Saws, Hacksaws, Screw-Drivers, Planes, Reciprocating Drills, Nail-Pullers, Drill-Drifts, Crowbars, Mallets, Hand-Shears and Roller-Shears for Cutting Metal Tubes, Beating and Mixing Pans, Cooling Fans for Machinery; Knives, Forks, and Spoons of Base Metal for Table Use; Pitchforks, Forks for Loading Hay, Power or Horse Driven Harvesting-Forks, Dies for Cutting Threads on Screws, Hand Pneumatic and Mechanical Molding and Ramming Tools, Vises Used for Mitering Purposes, Thread-Rolling Machines, Horizontal and Vertical Tapping-Machines, Diestocks, Pipe-Tapping Machines, Transmission-Driven Hammers, Steam-Hammers, High-Speed Belt-Driven Direct-Blow Hammers, Trip and Drop Hammers, Elevators, Chain Lifts and Hoists, Flywheels, Pulleys; Sprocket, Ratchet, and Gear Wheels; Grinding and Polishing Machines for Knives, Friction and Positive Tooth Clutches for Machinery, Couplings for Shafting, Metal-Working Milling-Machines, Ball-Bearings and Balls for Grinding Purposes, Soldering-Irons, Apparatus for Loading Both Cranes and Scales, Machines and Apparatus for Picking and Taking Out the Pits from Fruits, Street-Sweepers, Metal-Grinding Machines, Tool-Grinders, Ball-Grinders and Roll-Grinders, Lathes, Mechanically-Driven and Gravity Conveyers, Hoists and Derricks, Cast-Metal Trestles for Shaft-Supports, Cast-Metal Bearings, Ball and Roller Bearings; Pliers, Anvils, and Blacksmiths' Sets and Hammers; Tube Rolling and Drawing Machinery, Forging-Machines, Forging Blow-Machines, Nut-Pressers and Bull-dozers and Dies for the Same, Stone-Cutters, Hollow Steel Hexagon Drills, Pneumatic Rock and Hydraulic Rock Drills; Rakes, Hoes, Garden Forks, Scythes, Sickles, Spades, Shovels, and Lawn-Mowers; Automatic Machinery for Making Drills, Cutters, and for Rounding Gear-Teeth; Drill and Lathe Chucks; Plows, Harrows, Cultivators, Potato-Diggers, Corn-Headers, Beet-Pullers, Reaping and Threshing Machines, Cotton-Gins, Sowing-Machines, Self-Binders, and Clod-Pulverizers; Pistons, Carbureters, Crank-Shafts, Springs, and Valves, Both for Internal-Combustion Engines, Cam-Shafts, and Internal-Combustion Engines; Cheese-Making Machines; Centrifugal, Gear, Cylinder, Pulsimeter, Vane, and Suction Pumps; Endless-Chain Conveyers with Attached Scoops, Tools for Dressing Grinding-Wheels, Forging and Plate Pressers, Metal-Stamping Pressers and Can-Making Machinery; Ore-Separators; Oil, Milk, and Cream Separators; Lubricating Systems for Machinery, Including Pumps and Piping, Oil and Grease Cups; Tongs and Grapples for Lifting Apparatus; Hand Industrial Syringes for Oil, Grease, Water, and Chemicals; Metal Dating and Numbering Machines; Tool-Holders for Holding Cutting-Tools of Lathes, Shapers, Planers, and Grinding-Machines; Screw-Keys for Holding Gear-Pulleys and Flywheels in Position on Shafts, Taper Pins for Connecting and Aligning Machine Parts, Handles for Agricultural Implements and Tools in General, Metal-Working-Machine Clamps; Pneumatic Tools Comprising Portable Drills, Hand-Chisels, Hand-Riveters, and Rock-Drills; Boiler-Tube-Cleaning Tools, Taper Band Roller Pressers for Fastening Tubes to Boilers; Milking-Machines and Machines for Bottling, Pasteurizing, and Canning Milk and Machines for Cleaning Bottles and Cans; Ore-Crushing Machines, and Parts of the Foregoing Goods.

Claims use since the 28th of October, 1915.

Ser. No. 115,391. (CLASS 12. CONSTRUCTION MATERIALS.) LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo. Filed Jan. 23, 1919.

ARCHNU

Particular description of goods.— High-Temperature Cement for the Construction and Repair of Furnaces.
Claims use since Nov. 29, 1918.

Ser. No. 115,412. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUCINDA SCOTT, Wichita, Kans. Filed Jan. 24, 1919.



The picture shown on the drawing is a portrait of the applicant.
Particular description of goods.—A Medicinal Preparation for the Treatment of Cholera in Hogs and Poultry.
Claims use since Oct. 9, 1918.

Ser. No. 116,051. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HAYNES STELLITE CO., Kokomo, Ind. Filed Feb. 21, 1919.

STELLITE

Particular description of goods.— Blades and Cutters for Milling, Turning, and the like Metal-Working Machinery.
Claims use since about November, 1915.

Ser. No. 116,121. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) JOHN F. WING, Maywood, Ill. Filed Feb. 20, 1919.

MARVEL

Particular description of goods.—Spark-Plug Intensifiers.
Claims use since June, 1916.

Ser. No. 116,875. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSÉ BAU, Tortosa, Spain. Filed Mar. 25, 1919.



The following descriptive and geographical language on the drawing is disclaimed: "Pure Virgin Olive Oil, Exemplaris Fidelisima et Civitas Dertusæ, Extra Quality, Packed in Spain by José Bau, Tortosa."
Particular description of goods.— Olive-Oil.
Claims use since October, 1904.

Ser. No. 116,876. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSÉ BAU, Tortosa, Spain. Filed Mar. 25, 1919.



The following descriptive language upon the drawing is disclaimed: "The refined olive oil contained in this original tin is guaranteed by my signature to be legitimate and absolutely pure of olive. Tortosa (Spain)."
Particular description of goods.— Olive-Oil.
Claims use since January, 1909.

Ser. No. 116,877. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSÉ BAU, Tortosa, Spain. Filed Mar. 25, 1919.



The following descriptive and geographical language shown upon the drawing is disclaimed: "Trade Mark. Tortosa. Pure Virgin Olive Oil. Nett Contents, Gallon. The olive oil contained in this tin is pure and refined; it is obtained from the first pression; and it is known under the trade mark "T.-Tortosa" because its quality is the superior one produced in the best olive growing country in the world: Tortosa (Spain)."
Particular description of goods.— Olive Oil.
Claims use since October, 1915.

Ser. No. 117,120. (CLASS 37. PAPER AND STATIONERY.) THE LILY CUP COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 2, 1919.



Applicant herewith disclaims all printed words and numerals, with the exception of the word "Lily."
Particular description of goods.—Paper or Pulp Towels.
Claims use since Apr. 1, 1918.

Ser. No. 117,852. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE POLONIA DRUG COMPANY, Philadelphia, Pa. Filed April 25, 1919.



Particular description of goods.—Liniments to be Used Externally for Relieving Rheumatic and Gouty Conditions, Neuralgia, Bruises, Sprains; Liquid Cough Medicines for Relieving Colds and Affections of the Lungs, Headache Remedies in the Form of Powders, Corn Medicines in the Form of Liquids and Salves, Liquid Toothache-Drops; Tonics for Stimulating the Appetite, Regulating the Liver; Liver-Pills; Liquid Pain-Reliever for Relieving Rheumatic and Gouty Conditions, Neuralgia, and Headaches; Pain-Reliever for Headaches and Neuralgia in Tablet Form; Herb Tea for Stimulating the Action of the Stomach, Liver, and Kidneys; Healing-Salve to be Applied Externally in Cases of Cuts, Bruises, Scratches, and the Like; Eye-Water, a Liquid of Mild Antiseptic Nature.
Claims use since Sept. 20, 1916.

Ser. No. 118,325. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE OHIO VARNISH COMPANY, Cleveland, Ohio. Filed May 9, 1919.

STERILENE

Particular description of goods.—Paste Soap.
Claims use since about May 1, 1919.

Ser. No. 118,542. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSÉ SANCHIZ DE QUESADA, Madrid, Spain. Filed May 16, 1919.



The applicant hereby disclaims the exclusive right to the use of the wording on the drawing apart from the trademark as shown.

Particular description of goods.—Olive-Oil.

Claims use since Mar. 13, 1919.

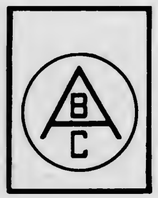
Ser. No. 119,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. W. SCHOONMAKER, INCORPORATED, New York, N. Y. Filed May 29, 1919.

I-Y

Particular description of goods.—Paste for Skin Irritations, Bites, and Poisonings.

Claims use since Apr. 10, 1919.

Ser. No. 119,123. (CLASS 37. PAPER AND STATIONERY.) WILLIAM M. HOERNER, Harrisburg, Pa. Filed June 2, 1919.



Particular description of goods.—Blank Books in Which Savings Stamps Will be Pasted.

Claims use since Mar. 22, 1919.

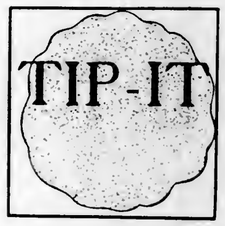
Ser. No. 119,234. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE GENERAL ELECTRIC COMPANY LIMITED, London, England. Filed June 5, 1919.

KINARKO

Particular description of goods.—Electric Carbons.

Claims use since 1912.

Ser. No. 119,478. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROE L. JOHNSON, New York, N. Y. Filed June 11, 1919.



Particular description of goods.—Metal-Working Boring-Bars, Cutters, Reamers, Drills, Chuck-Jaws, Forming-Tools, Taps, Punches, and Dies.

Claims use since Sept. 1, 1918.

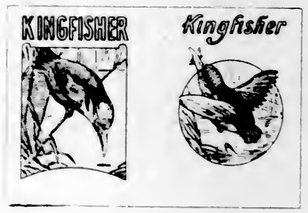
Ser. No. 120,144. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ANNA MYRTLE VESPER, San Francisco, Calif. Filed June 30, 1919.

Velvo

Particular description of goods.—Automobile-Polish.

Claims use since Mar. 1, 1919.

Ser. No. 120,370. (CLASS 17. TOBACCO PRODUCTS.) BRITISH-AMERICAN TOBACCO COMPANY, LIMITED, London, England. Filed July 9, 1919.



Particular description of goods.—Cigarettes.

Claims use since September, 1897.

Ser. No. 120,818. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. CHENEY & SON, Manlius, N. Y. Filed July 23, 1919.

FARMO

Particular description of goods.—Stock-Feed-Grinding Machines.

Claims use since January, 1919.

Ser. No. 120,844. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ORANGE MANUFACTURING COMPANY, Orange, Va. Filed July 23, 1919.

GOMO

Particular description of goods.—Automobile Accessory Consisting of an Attachment for Improving the Vaporization of the Gasolene After Leaving the Carbureter.

Claims use since July 18, 1919.

Ser. No. 120,863. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN G. ALEXANIAN, Fort Wayne, Ind. Filed July 24, 1919.

HOOPOE



Particular description of goods.—Rug-Cleaning Compound.

Claims use since July 27, 1919.

Ser. No. 120,902. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass. Filed July 24, 1919.

IMPERIAL

Particular description of goods.—Dressing to be Used on Leather and Articles Made Therefrom.

Claims use since December, 1903.

Ser. No. 120,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE NORDISKE FABRIKER, DE-NO-FA AKTIESELSKAB, Christiania, Norway. Filed July 28, 1919.

Margarit,

Particular description of goods.—Refined and Unrefined Fats Produced by the Hydrogenation of Vegetable and Animal Oils and Fats, Used as a Base in the Manufacture of Ointment for Medicinal Purposes.

Claims use since September, 1912.

Ser. No. 121,050. (CLASS 37. PAPER AND STATIONERY.) WALDES & CO., Prague, Bohemia. Filed July 29, 1919.



The drawing shows the portrait of Elizabeth Coyne.

Particular description of goods.—Toilet-Paper, Paper Napkins, Silk Paper, Japanese Paper, French White Tissue-Paper in Sheets and Rolls, and Untreated Paper for Cigarettes in Sheets and Rolls.

Claims use since Dec. 1, 1915.

Ser. No. 121,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLIS PRODUCTS COMPANY, Clinton, Iowa. Filed July 30, 1919.

COLLIS

Particular description of goods.—Powdered Buttermilk.

Claims use since about the month of May, 1918.

Ser. No. 121,461. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DOUGLAS PAINT OIL CO., Chicago, Ill. Filed Aug. 9, 1919.

DOUG-LIN

Particular description of goods.—Linseed-Oil Substitute.

Claims use since July 28, 1919.

Ser. No. 121,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMERSON DAVIS, Concord, N. H., assignor to Batchelder Inc., Concord, N. H. Filed Aug. 14, 1919.

WHITE MOUNTAIN

Particular description of goods.—Candies.

Claims use since Feb. 1, 1919.

Ser. No. 122,042. (CLASS 15. OILS AND GREASES.) CHARLESTON OIL COMPANY, Charleston, S. C. Filed Aug. 27, 1919.

UNEDOIL

Particular description of goods.—Lubricating-Oil.
Claims use since Aug. 1, 1919.

Ser. No. 122,046. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUGHES & CURREN CO. INC., Rochester, N. Y. Filed Aug. 27, 1919.

MOTOLINE

Particular description of goods.—Tops, Fenders, and Clutch-Hooks as Accessories for Tractors.
Claims use since May 1, 1919.

Ser. No. 122,224. (CLASS 37. PAPER AND STATIONERY.) TOYOZO NAKAYAMA, Osaka, Japan. Filed Sept. 2, 1919.



Particular description of goods.—Stationery—Namely, Writing-Paper, Note-Books, Steel Pens, Lead-Pencils, Penholders, Fountain-Pens, and Inkstands.
Claims use since the 25th of December, 1918.

Ser. No. 122,579. (Class 26. MEASURING AND SCIENTIFIC APPLIANCES.) SIMLEC FILM COMPANY, Pittsburgh, Pa. Filed Sept. 11, 1919.

SIMLEC

Particular description of goods.—Motion-Picture Films.
Claims use since Aug. 5, 1919.

Ser. No. 123,080. (CLASS 37. PAPER AND STATIONERY.) ROCHESTER GERMICIDE COMPANY, Rochester, N. Y. Filed Sept. 24, 1919.



No claim being made to exclusive use of the words "Paper Towels" apart from the mark shown.
Particular description of goods.—Paper Towels and Toilet-Paper.
Claims use since Jan. 1, 1895.

Ser. No. 123,256. (CLASS 2. RECEPTACLES.) SAMUEL C. PANDOLFO, St. Cloud, Minn. Filed Sept. 29, 1919.

PAN

Particular description of goods.—Tanks, Tool-Chests, and Canteens Especially Adapted for Use on Automobiles.
Claims use since January, A. D. 1918.

Ser. No. 123,267. (CLASS 39. CLOTHING.) LYNN-KERR & CO., Louisville, Ky. Filed Sept. 29, 1919.

Yatel

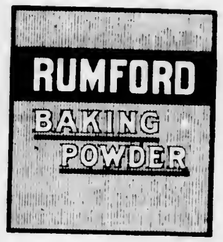
Particular description of goods.—Pattern-Hats for Misses, Women, and Children.
Claims use since Jan. 1, 1915.

Ser. No. 123,287. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) N. E MARSHBURN, Atlanta, Ga. Filed Sept. 30, 1919.



Particular description of goods.—Liniment for Treatment of Toothache, Rheumatism, Headache, Cuts, Burns, Sprains, Lumbago, Sciatica, Stiff Joints, Corns, Bunions, Earache, Sore Muscles, and Lame Backs, Laxative Tonic, Liver Medicine, and Salve for Treatment of the Throat, Bronchial Tubes, and Chest.
Claims use since Jan. 4, 1919.

Ser. No. 123,454. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUMFORD CHEMICAL WORKS, Providence, R. I. Filed Oct. 4, 1919.



We hereby disclaim the words "Baking Powder" apart from the mark as shown, comprising the word "Rumford" in white on a black band and the words "Baking Powder" in white, underlined in black, on a red ground, the red ground also extending above the black band.
Particular description of goods.—Baking-Powder.
Claims use since May, 1897.

Ser. No. 123,466. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. PHARMACEUTICAL MANUFACTURING COMPANY, New York, N. Y. Filed Oct. 4, 1919.



Particular description of goods.—Cough Medicine.
Claims use since May 1, 1919.

Ser. No. 123,512. (CLASS 17. TOBACCO PRODUCTS.) JOHN CHRISTOFORIDES, London, England. Filed Oct. 7, 1919.



Particular description of goods.—Smoking and Chewing Tobacco, Cigars, and Cigarettes.
Claims use since July, 1903.

Ser. No. 123,617. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 10, 1919. Under ten-year proviso.

WEDGE

Particular description of goods.—Rubber Erasers.
Claims use since the year 1880.

Ser. No. 123,619. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 10, 1919.

ECLIPSE

Particular description of goods.—Rubber Erasers.
Claims use since the year 1910.

Ser. No. 123,751. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio. Filed Oct. 13, 1919.

National

Particular description of goods.—Machines of Flexible Design Having Four Possible Functions of Printing, Issuing, Recording, and Registering Tickets, and Their Parts.
Claims use since Jan. 18, 1892.

Ser. No. 123,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH C. JONAS, Brooklyn, N. Y. Filed Oct. 15, 1919.

HONOR BRAND

No claim is made to the word "Brand."
Particular description of goods.—Corn Remedies, Cough Medicine, Liniment for Sprains, Painful Joints, Neuralgia, Headache, Toothache, and All External Bodily Pains, and Hair-Tonic.
Claims use since on or about Sept. 22, 1919.

Ser. No. 123,813. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAZELL PERFUMER, Newburgh, N. Y. Filed Oct. 15, 1919.

ORANGE BUDS

Consisting of the words "Orange Buds."
Particular description of goods.—Perfumes, Extracts, Toilet Water, Talcum Powder, Sachet-Powder, Perfumery in Bulk, Face-Powder, and Toilet Cream.
Claims use since Sept. 23, 1919.

Ser. No. 123,889. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GENERAL NECESSITIES CORPORATION, Detroit, Mich. Filed Oct. 17, 1919.

Absopure

Particular description of goods.—Artificial Ice.
Claims use since 1906.

Ser. No. 124,134. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BROMLEY-MERSELES MFG. CO., New York, N. Y. Filed Oct. 24, 1919.

Crescent
GLASS AND DISH WASHER

No claim is made to the words "Glass and Dish Washer" apart from the mark as shown.
Particular description of goods.—Dish-Washing Machines and Metal-Parts-Washing Machines.
Claims use since Jan. 15, 1914.

Ser. No. 124,207. (CLASS 32. FURNITURE AND UPHOLSTERY.) HYMAN FREEDMAN, Chicago, Ill. Filed Oct. 27, 1919.

ORNO

Particular description of goods.—Furniture—Namely, Spring-Seats.
Claims use since June, 1919.

Ser. No. 124,310. (CLASS 37. PAPER AND STATIONERY.) MOREY AND COMPANY, INCORPORATED, Cambridge, Mass. Filed Oct. 29, 1919.

MOREGO

The word "Moreco" lined as shown to indicate shading only.
Particular description of goods.—Finished Paper-Stock, Book-Paper, Newspaper, and Wrapping-Paper.
Claims use since on or about Dec. 31, 1917.

Ser. No. 124,387.) (CLASS 15. OILS AND GREASES.) BEAVER REFINING COMPANY, Pittsburgh, Pa. Filed Oct. 31, 1919.

BEAVER REFINING CO.

Particular description of goods.—Gasolene, Benzin, Naphtha, Kerosene, Fuel-Oil, and Lubricating Oils and Greases Made Principally from a Hydrocarbon Base.
Claims use since May 15, 1919.

Ser. No. 124,494. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ETTORE M. SCHISA, Syracuse, N. Y., and Lebanon, Pa. Filed Nov. 3, 1919.

LA MIA BANDIERA

Particular description of goods.—Macaroni.
Claims use since Jan. 1, 1918.

Ser. No. 124,505. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD G. WILSON, Titusville, Fla. Filed Nov. 3, 1919.

GIV-EZE

No claim being made to the word "Giv-Eze" apart from the mark shown.
Particular description of goods.—A Medicine Used in the Treatment of Headache, Neuralgia, Rheumatism, Neuritis, and Colds.
Claims use since Jan. 10, 1917.

Ser. No. 124,532. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PREMIUM METAL & PACKING CO., Wilkinsburg, Pa. Filed Nov. 4, 1919.

ALUMALOY

Particular description of goods.—Babbitt Metals.
Claims use since Aug. 21, 1919.

Ser. No. 124,703. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. M. ALFORD & SONS, New York, N. Y. Filed Nov. 10, 1919.

YANKI MAID
SILK

The word "Silk" is hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Broad Silks in the Piece.
Claims use since Sept. 1, 1919.

Ser. No. 124,734. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE RALKO PRODUCTS COMPANY, Dayton, Ohio. Filed Nov. 10, 1919.

RALKO
FIRE
DESTROYER

No claim is made to the words "Fire Destroyer" apart from the mark as shown in the drawing.
Particular description of goods.—Hand Fire-Extinguishers.
Claims use since the 1st day of July, 1919.

Ser. No. 124,879. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ROBERT J. BURGAN, New York, N. Y. Filed Nov. 14, 1919.

ARS.

Particular description of goods.—Paper Patterns for Making Men's Clothes.
Claims use since Oct. 21, 1919.

Ser. No. 124,914. (CLASS 37. PAPER AND STATIONERY.) NEW DIAMOND POINT PEN CO. INC., New York, N. Y. Filed Nov. 14, 1919.

AUTOSHARP

Particular description of goods.—Magazine Lead-Pencils.
Claims use since about June, 1919.

Ser. No. 124,928. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SAMUEL BERGER, Newark, N. J. Filed Nov. 15, 1919.

SCOPO

Particular description of goods.—Sink-Scoops.
Claims use since about Oct. 2, 1919.

Ser. No. 124,930. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY F. FEEBACK, El Paso, Tex. Filed Nov. 15, 1919.



The mark consists of a picture of Adelina Juarez.
Particular description of goods.—Hair-Tonic.
Claims use since July 5, 1919.

Ser. No. 124,983. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FORSYTH DENTAL INFIRMARY FOR CHILDREN, Boston, Mass. Filed Nov. 17, 1919.

Forsyth

Particular description of goods.—Dentrifice.
Claims use since Sept. 1, 1919.

Ser. No. 125,049. (CLASS 39. CLOTHING.) COHN, GOLDWATER COMPANY, Los Angeles, Calif. Filed Nov. 18, 1919.

PALMDAYL

Particular description of goods.—Men's and Boys' Athletic Underwear.
Claims use since Jan. 3, 1919.

Ser. No. 125,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONS AND DAUGHTERS OF LEVI, Dothan, Ala. Filed Nov. 18, 1919.

SADOL

Particular description of goods.—Medicine for the Treatment of Mumps, Measles, Cholera, and Liver Troubles in Hogs.
Claims use since Sept. 16, 1919.

Ser. No. 125,097. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE WILCOX & WHITE CO., Meriden, Conn. Filed Nov. 19, 1919.



Particular description of goods.—Mechanical Music-Playing Instruments and Music-Rolls Therefor.
Claims use since June, 1913.

Ser. No. 125,138. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. W. WOOD, Detroit, Mich. Filed Nov. 20, 1919.

T. R. AND P.

Particular description of goods.—Medicine for the Treatment of Tuberculosis, Bronchitis, and Asthma.
Claims use since 1909.

Ser. No. 125,195. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PERKINS & MCNEELY, Philadelphia, Pa. Filed Nov. 22, 1919.

BOVINE KID

No claim being made to the word "Kid" apart from the mark shown in the drawing.
Particular description of goods.—Side-Leather.
Claims use since Sept. 12, 1919.

Ser. No. 125,217. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JABEZ BURNS & SONS, New York, N. Y. Filed Nov. 24, 1919. Under ten-year proviso.

BURNS

Particular description of goods.—Machinery and Parts Thereof for Treating Coffee, Tea, Spices, Baking-Powder, Cereals, Nuts, and Cocoa, Comprising Roasters, Coolers for Roasted or Heated Materials, Stoners, Mills, Sifters, Cleaners, Graders, Mixers, Conveyers, Fans, and Collectors.
Claims use since incorporation in 1907 and in the businesses of our predecessors, Jabez Burns & Sons, a co-partnership, and Jabez Burns, an individual, since 1864.

Ser. No. 125,243. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RADIOR CO. LTD. OF LONDON, New York, N. Y. Filed Nov. 24, 1919.

Radior

Particular description of goods.—Forehead-Pads, Recommended for Strengthening the Facial Muscles, Eliminating Wrinkles, Crow's Feet, and Sagging Skin, and for Under-Chin Pads, Recommended for Eliminating Wrinkles, Restoring Natural Youthful Contours, and Correcting Double Chin.
Claims use since November, 1913.

Ser. No. 125,284. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALBERT SAMUEL ILES, Birmingham, England. Filed Nov. 25, 1919.



Particular description of goods.—A Table Ball Game.
Claims use since May, 1919.

Ser. No. 125,358. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUBREY-BECKER SALES COMPANY, San Francisco, Calif. Filed Nov. 28, 1919.



The right to the exclusive use of the words "Hoarhound" and "Spearmint" except in connection with the rest of the mark shown is hereby disclaimed. The lining on the drawing represents the color pink.
Particular description of goods.—Cough-Candy, Cough-Drops, and Cough-Lozenges.
Claims use since Aug. 27, 1919.

Ser. No. 125,439. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SCHWEPPES, LIMITED, London, England. Filed Nov. 29, 1919.

SARTO

Particular description of goods.—A Non-Alcoholic Non-Cereal Maltless Flavored Beverage Made from Sarsaparilla-Root and Sold as a Soft Drink.
Claims use since June 11, 1913.

Ser. No. 125,468. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEXICO ARIZONA TRADING COMPANY, Nogales, Ariz. Filed Dec. 1, 1919.

MATCO

Particular description of goods.—Fresh Fruits and Vegetables.
Claims use since Sept. 25, 1916.

Ser. No. 125,519. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE H. WOOD, Boston, Mass. Filed Dec. 2, 1919.

G.H.W.
QUICK RELIEF

I lay no claim to the words "Quick Relief."
Particular description of goods.—Liniment. The Said Liniment Is Used Externally for Relieving Pain Caused by Rheumatism, Bruises, Colds, Grippe, Stiff Neck, and the Like and Is Used by Applying to the Parts Affected and Rubbing it Gently Until Well Rubbed into the Flesh.
Claims use since Nov. 15, 1919.

Ser. No. 125,581. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOS. ROWBOTTOM CO., INC., New York, N. Y. Filed Dec. 4, 1919.



Particular description of goods.—Cotton and Linen Embroideries in the Piece.
Claims use since July 1, 1917.

Ser. No. 125,588. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE VERATONE PHONOGRAPH CO., Marietta, Ohio. Filed Dec. 4, 1919.



Particular description of goods.—Phonograph-Cabinets.
Claims use since Nov. 8, 1919.

Ser. No. 125,603. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CONTINENTAL CASTINGS CORP., New York, N. Y. Filed Dec. 5, 1919.

DURALITE

Consisting of the word "Duralite."
Particular description of goods.—Aluminum Alloys.
Claims use since Nov. 1, 1919.

Ser. No. 125,717. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FURMAN B. MCCRACKIN, Bamberg, S. C. Filed Dec. 8, 1919.

MAXTONE

The word being shaded to indicate red.
Particular description of goods.—A Medicine Used in the Treatment of Chills, Fever, Malaria, Colds, and Grippe.
Claims use since the latter part of October or the first part of November, 1915.

Ser. No. 125,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB J. KALFMAN, Columbus, Ga. Filed Dec. 9, 1919.



No claim being made to the container shown.
Particular description of goods.—Pomade Hair-Dressing.
Claims use since June 9, 1917.

Ser. No. 125,819. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) W. REED WILLIAMS (1908) LIMITED, London, England. Filed Dec. 10, 1919.

Particular description of goods.—Articles of Jewelry for Personal Wear, Comprising Brooches, Pendants, Necklaces, Neck-Chains, Single and Double Watch-Chains, Eyeglass Chains and Guards, Finger-Rings, Hatpins, Ear-Rings, Bracelets, Scarf-Pins; Seals, Crosses, Lockets, and other Charms Adapted to be Worn on or Pendant from a Chain; Cuff Links or Buttons, Removable Shirt Studs and Buttons, and Buttons Having Matter Thereon to be Displayed, Supported, for Instance, from the Buttonhole of the Coat.

Claims use since the 28th of April, 1911.

Ser. No. 125,893. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LUSTER-ITE CORPORATION, Brooklyn, N. Y. Filed Dec. 12, 1919.

LUSTRITE

Particular description of goods.—Brilliantine Rose, Cold-Cream, Cuticle-Powder, Cuticle-Softener, Enamel-Cream, Face-Powder, Face-Rouge, Lip-Stick, Liquid Nail-Polish, Massage-Cream, Nail-Bleach, Nail-Enamel, Nail-Polish, Nail-Powder, Nail-Rouge, Nail-Tint, Nail-Whitener, Peroxid Cream, Rose Tint, Salve-Enamel, Vanishing Cream, Salve and Enamel, Nail-Flash.

Claims use since Sept. 1, 1919.

Ser. No. 125,945. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOLESLAW DOWJAT, New Britain, Conn. Filed Dec. 13, 1919.

SONS Co.

Particular description of goods.—A General Medicinal Tonic.

Claims use since Sept. 1, 1918.

Ser. No. 126,036. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JORDAN AND HAMBLE COMPOUNDING COMPANY, Houston, Tex. Filed Dec. 15, 1919.

BUZZO

Particular description of goods.—A Liniment for the Treatment of Rheumatism.

Claims use since Nov. 29, 1919.

Ser. No. 126,057. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE PALMER TIRE COMPANY, Topeka, Kans. Filed Dec. 15, 1919.

Han-de-Pach

No claim is made to the word "Pach" apart from the mark shown in the drawing.

Particular description of goods.—Tire-Repair Outfits Comprising Rubber Patches and Cement for Attaching Same.

Claims use since the 11th day of October, 1919.

Ser. No. 126,072. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ST. LOUIS BEVERAGE COMPANY, St. Louis, Mo. Filed Dec. 15, 1919.

CERIA

Particular description of goods.—Non-Alcoholic Non-Intoxicating Beverage Containing Malt and Cereal, Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.

Claims use since Oct. 13, 1919.

Ser. No. 126,146. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai," nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,147. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.

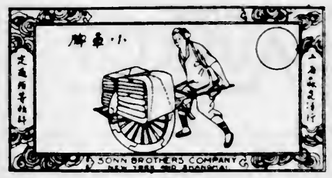


No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai" nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,148. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai" nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai" nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,150. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai" nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,151. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai" nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SONN BROTHERS COMPANY, New York, N. Y. Filed Dec. 16, 1919.



No claim is made herein to the words "Sonn Brothers Company, New York and Shanghai" nor to the matter written in the Chinese language in the drawing as a technical trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. FOUGERA & Co., New York, N. Y. Filed Dec. 22, 1919.

SANTAL-PROPHYO

No claim is made to the word "Santal" apart from its association with the word "Prophyo."

Particular description of goods.—Medicines for the Prevention of Infections of the Urinary Tract.

Claims use since Nov. 24, 1919.

Ser. No. 126,338. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAMIE E. WATSON, Jackson, Miss. Filed Dec. 22, 1919.



The trade-mark consisting of a photographic likeness of the applicant.

Particular description of goods.—A Hair-Grower.

Claims use since Feb. 28, 1915.

Ser. No. 126,377. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE HARTMAN COMPANY, Chicago, Ill. Filed Dec. 23, 1919.



Particular description of goods.—Animal-Feed Cookers.

Claims use since Nov. 1, 1919.

Ser. No. 126,380. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARTMANN BROTHERS, INC., New York, N. Y. Filed Dec. 23, 1919.



BESSMAID

Particular description of goods.—Hair-Nets.

Claims use since June, 1918.

Ser. No. 126,407. (CLASS 2. RECEPTACLES.) PHILIP ZALKIND, New York, N. Y. Filed Dec. 23, 1919.

HAZADOR

Particular description of goods.—Paper Boxes and Cartons.

Claims use since Jan. 1, 1919.

Ser. No. 126,443. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ROY L. BARTHOLOMEW, Minneapolis, Minn. Filed Dec. 26, 1919.

BART'S
AUTO-JOY

Particular description of goods.—A Tire-Patch.

Claims use since about the 3d day of December, 1919.

Ser. No. 126,473. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) KAUFMANN BROS. AND BONDY, New York, N. Y. Filed Dec. 26, 1919.

KAYWOODIE

Particular description of goods.—Smokers' Pipes, Cigar and Cigarette Holders.

Claims use since Feb. 8, 1919.

Ser. No. 126,542. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBIN HOOD MILLS, LIMITED, Moose Jaw, Saskatchewan, Canada. Filed Dec. 27, 1919.

KEYNOTE

Particular description of goods.—Wheat-Flour.

Claims use in Canada since 1909 and has been used in commerce between Canada and the United States since Nov. 30, 1911.

Ser. No. 126,569. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE FAIR, Chicago, Ill. Filed Dec. 29, 1919.

FAIRCREST

Particular description of goods.—Sheets and Pillow-Cases.

Claims use since on or about Jan. 1, 1919.

Ser. No. 126,587. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MCCLAREN RUBBER COMPANY, Charlotte, N. C. Filed Dec. 29, 1919.

Autocrat

Particular description of goods.—Rubber or Rubber and Fabric Tires and Tubes for Vehicles.

Claims use since Nov. 26, 1919.

Ser. No. 126,654. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SELIGMAN AND LATZ, New York, N. Y. Filed Dec. 30, 1919.



Particular description of goods.—Cosmetics—viz., Face and Body Creams, Rouge; Toilet Articles—viz., Lotions for Scalp, Skin, and Hair; Hair-Restoratives, Lip-Sticks, Face-Powders; Nail-Polishing, Bleaching, and Whitening Preparations, and Perfumes.

Claims use since Dec. 16, 1919.

Ser. No. 126,655. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SHIMAN-MILLER MANUFACTURING COMPANY, Newark, N. J. Filed Dec. 30, 1919.



Particular description of goods.—Jewelry for Personal Wear, Not Including Watches.

Claims use since 1905.

Ser. No. 126,678. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE EASTERN MACHINE SCREW CORPORATION, New Haven, Conn. Filed Dec. 31, 1919.

H&G

The lining shown in the drawing is merely to express shading and does not indicate color.

Particular description of goods.—Automatic Die-Heads, Collapsible Taps, Threading-Machines, and Screw-Machines.

Claims use since January, 1916.

Ser. No. 126,686. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Clevises, Clod-Crushers, Seed-Drills, Stalk-Cutters, Corn-Cutters, Cultivators, and Parts Thereof; Diggers, (Potato;) Engines, (Gas, Gasolene, and Kerosene;) Feed-Carriers, Fertilizer-Drills, Field-Rollers, Mechanical Fire-Extinguishers, Handles for Farm-Tools and Farm Implements, Harrows, Harvesters, Hillers, Horse-Hoes; Feed, Grain, and Vegetable Hullers; Lime-Sowers, Grain and Feed Grinders, Grain and Feed Mills, Mowers, Multicrushers and Packers for Working the Soil, Planters, Plows, Land-Rollers, Saw-Rigs; Grass, Gang, and Vegetable Seeders; Seed-Broadcasters, Sprayers for Vegetation and Animals, Spreaders for Fertilizers, Teeth for Farm Implements, Weeders, and Rotary Blowers.

Claims use since Jan. 1, 1919.

Ser. No. 126,725. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES I. HENDRICKS, New York, N. Y. Filed Jan. 2, 1920.

A+B+S+C+O

Particular description of goods.—Protective Coverings Cut and Fitted for Attachment to the Platens or Rolls of Typewriters and Adding-Machines.

Claims use since Dec. 27, 1919.

Ser. No. 126,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. HURLEY, Chicago, Ill. Filed Jan. 2, 1920.

HURLITONE No. 1

The trade-mark consists of the words "Hurlitone No. 1" in black upon a red background, the background being surrounded by a scroll design.

Particular description of goods.—A Tonic for the Bowel Action and Improving the Digestion.

Claims use since Dec. 16, 1919.

Ser. No. 126,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. HURLEY, Chicago, Ill. Filed Jan. 2, 1920.

HURLITONE No. 2

The trade-mark consists of the words "Hurlitone No. 2" in black upon a red background, the background being surrounded by a scroll design.

Particular description of goods.—A Tonic for Aiding the Digestion Organs and Improving the Appetite.

Claims use since Dec. 16, 1919.

Ser. No. 126,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DENTOCIDE CHEMICAL CO., Baltimore, Md. Filed Jan. 3, 1920.



Particular description of goods.—Tooth-Paste.

Claims use since Sept. 26, 1919.

Ser. No. 126,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS, BARUCH & CO., Los Angeles, Calif. Filed Jan. 6, 1920.

IRIS



Particular description of goods.—Fruit Canned in Glass, Canned Melba Pears, Preserves in Glass, Cranberry Sauce, Quince Preserves, Orange Marmalade, Mince-Meat, Cider Vinegar, Dried Codfish, Honey, Cocktail-Onions, Salad-Dressing, and Pepper Sauce.

Claims use since Jan. 1, 1898.

Ser. No. 126,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON & MURRAY, INCORPORATED, Utica, Watertown, and Ogdensburg, N. Y. Filed Jan. 6, 1920.

HIGH MARK

Particular description of goods.—Canned Vegetables—Namely, Canned Corn, Canned Peas, Canned Tomatoes, Sliced Dried Beef in Glass, Jam in Glass, Lard in Cartons, Coffee and Tea, Apple Jelly, and Cider Vinegar.

Claims use continuously in his business on canned corn since Oct. 11, 1918; on canned peas since Sept. 2, 1918; on canned tomatoes since Oct. 10, 1916; on sliced beef since Aug. 10, 1918; on jam since Aug. 15, 1918; on lard since Mar. 10, 1919; on coffee since July 11, 1918; on tea since Feb. 3, 1919; on apple jelly since Apr. 2, 1918, and on cider vinegar since July 25, 1919.

Ser. No. 126,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL CO., Cleveland, Ohio. Filed Jan. 7, 1920.



No claim is made herein, apart from the mark shown in the drawing, to the words "The Grasselli Chemical Company, New York" or to the Chinese characters appearing on the drawing as a technical trade-mark.

Particular description of goods.—Dyestuffs.

Claims use since Nov. 27, 1919.

Ser. No. 126,933. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HYCO FUEL PRODUCTS CORPN., New York, N. Y. Filed Jan. 8, 1920.

AQUA HYDRO

Consisting of the words "Aqua Hydro."

Particular description of goods.—Self-Generating Gas-Burners.

Claims use since April, 1919.

Ser. No. 126,944. (CLASS 39. CLOTHING.) THE QUAKER CITY SHIRT MANUFACTURING COMPANY, Norristown, Pa. Filed Jan. 8, 1920.

THE Tyson SHIRT
TRADE MARK REGD.

Said mark "Tyson" as it appears in the drawing on file is the autograph of an officer of said applicant corporation—namely, that of Charles R. Tyson, then secretary, now first vice-president. Claim is made for registration of the distinctive display of the surname "Tyson." No claim for registration is made for the words "The," "Shirt," and "Trade-Mark Regd."

Particular description of goods.—Shirts, (Dress, Negligée, and Work,) Collars, and Cuffs.

Claims use since Dec. 6, 1919.

Ser. No. 126,949. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN DEVICE MANUFACTURING COMPANY, St. Louis, Mo. Filed Jan. 9, 1920.

KLEERNOTE

Particular description of goods.—Vacuum Suction-Pumps.

Claims use since Dec. 1, 1919.

Ser. No. 126,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BALSAMEA CO., San Francisco, Calif. Filed Jan. 9, 1920.

BALSAMOL

Particular description of goods.—A Preparation for Treating Influenza, Pneumonia, Bronchitis, and All Pulmonary Affections, Prepared in the Form of an Ointment.

Claims use since Jan. 1, 1920.

Ser. No. 126,953. (CLASS 37. PAPER AND STATIONERY.) BOORUM & PEASE CO., New York, N. Y. Filed Jan. 9, 1920.



No claim being made to the exclusive use of the words "Blank Books and Loose Leaf Devices" apart from the mark as shown in the drawing.

Particular description of goods.—Blank Books, Pads, and Tablets.

Claims use since at least 1880.

Ser. No. 126,982. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RENA ALLEN, Daytona, Fla. Filed Jan. 10, 1920.



No claim being made to the words "Child & Chick" apart from the mark shown in the drawing.

Particular description of goods.—Medicine for Ground-Itch on Children and Sorehead on Chickens.

Claims use since Oct. 24, 1919.

Ser. No. 126,994. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTHA HALL, San Francisco, Calif. Filed Jan. 10, 1920.

Marhal Oil

No claim being made to the word "Oil" apart from the mark shown.

Particular description of goods.—Medicine Used in the Treatment of Tuberculosis.

Claims use since 1915.

Ser. No. 127,026. (CLASS 10. FERTILIZERS.) ARMOUR FERTILIZER WORKS, Chicago, Ill. Filed Jan. 12, 1920.



No claim is made to the words "Armour's Big Crop Fertilizers" except when used in connection with the trade-mark, as shown in the drawing.

Particular description of goods.—Fertilizers.

Claims use since on or about Nov. 1, 1919.

Ser. No. 127,053. (CLASS 37. PAPER AND STATIONERY.) J. H. GREENHALGH & COMPANY, Chicago, Ill. Filed Jan. 12, 1920.



No claim is made to the words "Scientific Accounting Systems" apart from the mark shown in the drawing.

Particular description of goods.—Accounting-Forms.

Claims use since Dec. 22, 1919.

Ser. No. 127,064. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD R. MARTEN, St. Louis, Mo. Filed Jan. 12, 1920.

TEDDIE'S

Particular description of goods.—Laxative Medicinal Remedies.

Claims use since on or about the 1st day of January, 1917.

Ser No. 127,262. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) ROGERS & MADISON TRUNK CORPORATION, Petersburg, Va. Filed Jan. 17, 1920.



The terms "3 Ply" and "Genuine" not being claimed apart from the other features of the mark shown.

Particular description of goods.—Trunks, Suitcases, Traveling-Bags, and Handbags.

Claims use since the year 1916.

Ser. No. 127,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN LAUG, Lakewood, N. J. Filed Jan. 20, 1920.



No claim being made to the exclusive use of the word "Taffy" apart from the mark as shown in the drawing.

Particular description of goods.—Candy.

Claims use since May 11, 1917.

Ser. No. 127,382. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PAUL G. MEHLIN & SONS, New York, N. Y. Filed Jan. 20, 1920.

Mehlin

Applicant is the owner of Trade-Mark No. 72,564, registered Feb. 2, 1909, under the ten-year proviso.

Particular description of goods.—Pianos.

Claims use since about the year 1889.

Ser. No. 127,447. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM B. PRICE, Poughkeepsie and New York, N. Y. Filed Jan. 21, 1920.

REVIVIT

Particular description of goods.—A Preparation for Waterproofing and Preserving Automobile-Tops and Similar Articles.

Claims use since Oct. 15, 1919.

Ser. No. 127,478. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KEEVER STARCH CO., Columbus, Ohio. Filed Jan. 22, 1920.

Satinette

Particular description of goods.—Laundry Starch.

Claims use since Sept 30, 1919.

Ser. No. 127,483. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MURDOCK MACKAY GRAHAM, Boston, Mass. Filed Jan. 22, 1920.

Eski Dollie

Particular description of goods.—Dolls.

Claims use since Dec. 10, 1919.

Ser. No. 127,504. (CLASS 39. CLOTHING.) FLEISHMAN'S CLOAK & SUIT COMPANY, Baltimore, Md. Filed Jan. 23, 1920.

The Victory

Particular description of goods.—Ladies' and Misses' Wearing-Apparel—to wit, Middy-Blouses, Middy-Dresses, and Middy-Suits, Ladies' and Misses' Dresses and Waists, Cloaks, Suits, and Skirts.

Claims use since about Jan. 1, 1919.

Ser. No. 127,510. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HALSAM PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 23, 1920.

HALSAM

Particular description of goods.—Building-Blocks, Play-Blocks, and Blocks for Games.

Claims use since Feb. 25, 1918.

Ser. No. 127,561. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MEASUREGRAPH COMPANY, St. Louis, Mo. Filed Jan. 24, 1920.

METERGRAF

Particular description of goods.—Fabric-Measuring and Cost-Computing Machines.

Claims use since Nov. 29, 1919.

Ser. No. 127,568. (CLASS 37. PAPER AND STATIONERY.) ACCOUNTING MACHINE COMPANY, New York, N. Y. Filed Jan. 26, 1920.

CENTURY

DESK MEMO MACHINE

The words "Desk Memo Machine" are hereby disclaimed apart from the other features of the mark shown.

Particular description of goods.—Memorandum-Paper Holders.

Claims use since Oct. 18, 1919.

Ser. No. 127,592. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LUTHER A. HEILIG, San Diego, Calif. Filed Jan. 26, 1920.

TOPSAL

Particular description of goods.—Optical Lenses for Spectacles and Eyeglasses.

Claims use since the 2d day of January, 1920.

Ser. No. 127,626. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ATLANTIC REMEDIES CO., New York, N. Y. Filed Jan. 27, 1920.

ARCOL

The trade-mark consists of the arbitrary name or word "Arcol."

Particular description of goods.—Medicines for Stomach, Bowel, Liver, and Similar Troubles, and for the Blood.

Claims use since November, 1916.

Ser. No. 127,628. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MONROE BLOCK & CO., Providence, R. I. Filed Jan. 27, 1920.



Particular description of goods.—Pearls.

Claims use since Oct. 1, 1919.

Ser. No. 127,662. (CLASS 32. FURNITURE AND UPHOLSTERY.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Jan. 27, 1920.

LADY HAMILTON

Particular description of goods.—Hand-Mirrors, Bonnet-Mirrors, and Picture-Frames.

Claims use since Jan. 1, 1919.

Ser. No. 127,689. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HOLT MANUFACTURING COMPANY, Stockton, Calif. Filed Jan. 28, 1920. Under ten-year proviso.

HOLT

Particular description of goods.—Tractors, Internal-Combustion Engines, Harvesters, Plows and Plowing Outfits, Harrows and Harrowing Outfits, Road-Working Machines, Land-Levelers, Self-Laying Tracks for Traction-Engines, and the Parts Thereof.

Claims use since 1883.

Ser. No. 127,742. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS. SOUTHWEST FLOUR & FEED COMPANY, Glendale, Ariz. Filed Jan. 29, 1920.

STANNARD STRAIN

Particular description of goods.—Field-Seeds.

Claims use since June 10, 1918.

Ser. No. 127,843. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) TENNESSEE COAL, IRON & RAILROAD COMPANY, Birmingham, Ala. Filed Jan. 31, 1920.

BAMBOOSTEEL

No claim being made herein to the word "Bamboosteel" apart from the mark shown in the drawing.

Particular description of goods.—Plain, Corrugated, Round, Square, and Flat Iron and Steel.

Claims use since Dec. 19, 1919.

Ser. No. 127,852. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HENRY J. DOYLE, Lyndhurst, N. J. Filed Feb. 2, 1920.



Particular description of goods.—Sun-Shields for Automobiles.

Claims use since Jan. 9, 1920.

Ser. No. 127,880. (CLASS 37. PAPER AND STATIONERY.) WHITAKER PAPER COMPANY, Cincinnati, Ohio. Filed Feb. 2, 1920. Under ten-year proviso.

KID FIBRE

Particular description of goods.—Wrapping-Paper.

Claims use since prior to Feb. 20, 1895.

Ser. No. 127,888. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ANDREW G. BRIGGS, Richmond, Va. Filed Feb. 3, 1920.

JELLY-WAX

No claim being made to the compound word "Jelly-Wax."

Particular description of goods.—A Waxy Preparation for Polishing Automobiles, Furniture, and Stained and Hardwood Floors.

Claims use since July, 1919.

Ser. No. 127,949. (CLASS 39. CLOTHING.) THE W. E. TUTTLE CO., Rochester, N. Y. Filed Feb. 3, 1920.

ALL-DAY COMFORTS

Particular description of goods.—Shoes of Leather and a Combination of Leather and Fabric.

Claims use since about July 20, 1917.

Ser. No. 127,950. (CLASS 37. PAPER AND STATIONERY.) THE WHITAKER PAPER COMPANY, Cincinnati, Ohio. Filed Feb. 3, 1920.

DULLOVET

Particular description of goods.—Printing-Paper.

Claims use since Jan. 15, 1920.

Ser. No. 127,953. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. H. WORDEN COMPANY, San Francisco, Calif. Filed Feb. 3, 1920.

Blue Streak

Particular description of goods.—Drag-Saws.

Claims use since Mar. 17, 1919.

Ser. No. 127,988. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WYCKOFF DRAWN STEEL CO., Pittsburgh, Pa. Filed Feb. 4, 1920.

WYCO STEELS

No claim is made to the exclusive use of the word "Steels" apart from the mark as shown in the drawing and specimens.

Particular description of goods.—Cold-Drawn Steel.

Claims use since Dec. 1, 1919.

Ser. No. 127,999. (CLASS 39. CLOTHING.) ERNEST LYNWOOD BARTON, Chester, S. C. Filed Feb. 5, 1920.



LEOPARD BRAND

No claim being made to the word "Brand" apart from the mark shown.

Particular description of goods.—Dress-Shirts, Negligée Shirts, and Soft Collars.

Claims use since Dec. 1, 1919.

Ser. No. 128,032. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Feb. 5, 1920. Under ten-year proviso.

WHITE & WYCKOFF'S

Particular description of goods.—Writing-Paper Tablets, Composition-Books, Note-Books, and Memorandum-Books, Stenographers' Note-Books, Block-Pads, Typewriter-Paper, Papeteries, Writing-Paper, Mailing-Envelops, and Correspondence-Cards.

Claims use since Jan. 1, 1891.

Ser. No. 128,063. (CLASS 37. PAPER AND STATIONERY.) JOSEPH E. GIBSON, San Diego, Calif. Filed Feb. 5, 1920.

KROMOGRAPH

Particular description of goods.—Photograph-Mountings.

Claims use since the 7th day of October, 1919.

Ser. No. 128,072. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BLOCH CHEMICAL COMPANY, INC., New York, N. Y. Filed Feb. 7, 1920.



The picture forming a feature of the mark is fanciful.

Particular description of goods.—Hair-Nets.

Claims use since May, 1905.

Ser. No. 128,099. (CLASS 37. PAPER AND STATIONERY.) CASPER J. KORNDORFER, Tompkinsville, N. Y. Filed Feb. 7, 1920.

Protectocheck

Particular description of goods.—Bank-Checks.

Claims use since Sept. 1, 1917.

Ser. No. 128,120. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TOLEDO ENAMELED WIRE PRODUCTS CO., Toledo, Ohio. Filed Feb. 7, 1920.

Toledonamol

Particular description of goods.—Wire, and Particularly Magnet-Wire.

Claims use since Jan. 9, 1920.

Ser. No. 128,132. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN SEEDING-MACHINE COMPANY, Springfield, Ohio. Filed Feb. 9, 1920.

AMSCO

Particular description of goods.—Grain-Drills, Combined Grain-Drills and Fertilizer-Sowers, and Broadcast Fertilizer-Sowers.

Claims use since on or about Aug. 1, 1918.

Ser. No. 128,152. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Feb. 9, 1920. Under ten-year proviso.

GLIDDEN'S

Particular description of goods.—Varnishes, Furniture and Automobile Polishes, Paint-Pigment Colors, Dry Colors, Wood-Stains, Wood-Dyes, Metal-Coating Preparations in the Nature of Paints, Wood-Fillers, Japans, Paint and Varnish Driers, Paint and Varnish Asphaltums, Bronzing Liquid, Prepared Paint and Varnish Reducing Liquid, Calcimine, Colors in Oil, Including Grinding Liquids, Enamels in the Nature of a Paint, Acid-Proof Graphite Paint and Coating, Flat Wall-Finish in the Nature of a Paint, Liquid Concrete Floor-Dressing and Concrete Coating in the Nature of a Paint, Deck-Paints, Ready-Mixed and Prepared Paints, Floor-Wax, Paste Paints, Paints in Powdered Form, Floor Oil and Paint, Prepared Shellac, Marking-Ink Paint, and Japan and Liquid Driers.

Claims use since 1870.

Ser. No. 128,153. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Feb. 9, 1920.

EVERYWHERE on EVERYTHING

Particular description of goods.—Varnishes, Furniture and Automobile Polishes, Paint-Pigment Colors, Dry Colors, Wood-Stains, Wood-Dyes, Metal-Coating Preparations in the Nature of Paints, Wood-Fillers, Japans, Paint and Varnish Driers, Paint and Varnish Asphaltums, Bronzing Liquid, Prepared Paint and Varnish Reducing Liquid, Calcimine, Colors in Oil, Including Grinding Liquids, Enamels in the Nature of a Paint, Acid-Proof Graphite Paint and Coating, Flat Wall-Finish in the Nature of a Paint, Liquid Concrete Coating in the Nature of a Paint, Deck-Paints, Ready-Mixed and Prepared Paints, Floor-Wax, Paste Paints, Paints in Powdered Form, Floor Oil and Paint, Prepared Shellac, Marking-Ink Paint, and Japan and Liquid Driers.

Claims use since Sept. 1, 1919.

Ser. No. 128,167. (CLASS 11. INKS AND INKING MATERIALS.) POMEROY INK MANUFACTURING CO., Newark, N. J. Filed Feb. 9, 1920.



Particular description of goods.—Writing-Inks of All Kinds, Inks for Stamp-Pads to be Used by Rubber and Metal Stamps; Opaque Inks Used for Marking on Tracing-Cloth, Tin, Celluloid, and Glass; Metal-Stamp Inks for Numbering-Machines and the Like, and Indelible Ink.

Claims use since 1880.

Ser. No. 128,168. (CLASS 11. INKS AND INKING MATERIALS.) POMEROY INK MANUFACTURING CO., Newark, N. J. Filed Feb. 9, 1920. Under ten-year proviso.

POMEROY'S

Particular description of goods.—Writing-Inks of All Kinds, Inks for Stamp-Pads to be Used by Rubber and Metal Stamps; Opaque Inks Used for Marking on Tracing-Cloth, Tin, Celluloid, and Glass; Metal-Stamp Inks for Numbering-Machines and the Like, and Indelible Ink.

Claims use since 1880.

Ser. No. 128,189. (CLASS 39. CLOTHING.) WISCONSIN SHOE COMPANY, Milwaukee, Wis. Filed Feb. 9, 1920.



No claim is made to the words "Athletic Shoes" apart from the mark as shown in the drawing.

Particular description of goods.—Athletic Shoes Made of Leather, Rubber, and Fabric and in the Various Combinations—*i. e.*, Leather and Rubber, Fabric and Rubber, Fabric and Leather, and Leather, Rubber, and Fabric.

Claims use since Dec. 31, 1911.

Ser. No. 128,207. (CLASS 39. CLOTHING.) W. T. GRANT CO., New York, N. Y. Filed Feb. 10, 1920



No claim being made to the exclusive use of the word "Knit" apart from the mark as shown in the drawing.

Particular description of goods.—Hosiery.

Claims use since January, 1918.

Ser. No. 128,236. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Table-Cutlery of Base Metal, Pocket-Knives, Scissors, and Razors, Dies for Engraving, Stamping, or Embossing Stationery.
Claims use since 1868.

Ser. No. 128,238. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Flexible Steel Measuring-Tapes, Aeronautical and Marine Compasses, Field and Marine Glasses, Thermometers, and Barometers.
Claims use since 1868.

Ser. No. 128,239. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Flexible Steel Measuring-Tapes, Aeronautical and Marine Compasses, Field and Marine Glasses, Thermometers, and Barometers.
Claims use since 1868.

Ser. No. 128,262. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WM. ZINSSER & CO., INC., New York, N. Y. Filed Feb. 10, 1920.

VAC-DRY

Particular description of goods.—Bleached Gum-Shellac.
Claims use since Jan. 31, 1920.

Ser. No. 128,271. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE KLEENX COMPANY, Cleveland, Ohio. Filed Feb. 11, 1920.

KLEENX

Particular description of goods.—Cleaning Preparations for Articles of Straw and Similar Materials.
Claims use since Feb. 3, 1920.

Ser. No. 128,306. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHARLES L. HOGUE, Oakland, Calif. Filed Feb. 12, 1920.

Read The Road

No claim is made to the eyeglass-mounting apart from the mark shown on the drawing.
Particular description of goods.—Eyeglasses.
Claims use since June 16, 1919.

Ser. No. 128,322. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REID ICE CREAM COMPANY, New York, N. Y. Filed Feb. 12, 1920. Under ten-year proviso.

Reid

Particular description of goods.—Ice-Cream and Charlotte-Russe.
Claims use since 1892.

Ser. No. 128,323. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REID ICE CREAM COMPANY, New York, N. Y. Filed Feb. 12, 1920. Under ten-year proviso.



Particular description of goods.—Ice-Cream.
Claims use since 1892.

Ser. No. 128,374. (CLASS 15. OILS AND GREASES.) D. A. STUART & CO., Chicago, Ill. Filed Feb. 13, 1920.

SUPER-KOOL

No claim is made for the word "Kool" apart from the mark shown in the drawing.
Particular description of goods.—Cutting-Oils.
Claims use since on or about July 1, 1918.

Ser. No. 128,476. (CLASS 39. CLOTHING.) BENJAMES STROMBERG, New York, N. Y. Filed Feb. 16, 1920.

SNAP-ON TRADE-MARK REG. U.S. PAT. OFF.

In the drawing the words "Trade Mark Reg. U. S. Pat. Off," are disclaimed apart from the mark shown.
Particular description of goods.—Men's Soft Silk Collars.
Claims use since Jan. 1, 1920.

Ser. No. 128,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADES PRODUCT CORPORATION, Philadelphia, Pa. Filed Feb. 17, 1920.

Breeze

Consisting of the word "Breeze."
Particular description of goods.—Food-Flavoring Extracts.
Claims use since Oct. 1, 1919.

Ser. No. 128,484. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER CO., Columbus, Ohio. Filed Feb. 17, 1920.

SEALECT

In which the lines are for shading only.
Particular description of goods.—Mailing-Envelops, Papeteries, and Writing-Tablets.
Claims use since Jan. 23, 1920.

Ser. No. 128,507. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. JOHNSTON CO., Milwaukee, Wis. Filed Feb. 17, 1920.

SHADOWLAND

The lines shown are for shading only.
Particular description of goods.—Candies.
Claims use since Jan. 2, 1920.

Ser. No. 128,511. (CLASS 39. CLOTHING.) LYNCHBURG SHOE COMPANY, Lynchburg, Va. Filed Feb. 17, 1920.



No claim being made to the words "Workmanship," "Quality," and "Service" apart from the mark shown.
Particular description of goods.—Boots and Shoes of Leather and Fabric, Leather and Rubber, and Rubber and Fabric.
Claims use since Jan. 26, 1920.

Ser. No. 128,523. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RUSSIA CEMENT COMPANY, Gloucester, Mass. Filed Feb. 17, 1920.



Particular description of goods.—Polish, Cleaning, and Preserving Preparations for Stoves.
Claims use since Dec. 1, 1919.

Ser. No. 128,532. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. E. STITZEL & SON, Philadelphia, Pa. Filed Feb. 17, 1920.

GOLDEN SEAL

Particular description of goods.—Automobile and Furniture Polish.
Claims use since May 12, 1910.

Ser. No. 128,558. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK DE PALMA, Brooklyn, N. Y.. Filed Feb. 18, 1920.



Particular description of goods.—Shaving-Cream.
Claims use since Oct. 1, 1919.

Ser. No. 128,565. (CLASS 39. CLOTHING.) SCHREIBER & WALLACH, Cleveland, Ohio. Filed Feb. 18, 1920.



No claim is made for the use of the words "Cleveland, Ohio" in said trade-mark apart from the mark shown on the drawing.
Particular description of goods.—Children's and Ladies' Dresses, Skirts, Middy-Blouses, and Bloomers.
Claims use since Feb. 2, 1920.

Ser. No. 128,583. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B. ALTMAN & Co., New York, N. Y. Filed Feb. 19, 1920.

Highland Violets

Particular description of goods.—Soap.
Claims use since 1901.

Ser. No. 128,588. (CLASS 39. CLOTHING.) THE ARROW BRAND HEMSTITCHING & TUCKING CO. INC., New York, N. Y. Filed Feb. 19, 1920.

ARROW BRAND WAIST

The words "Brand" and "Waist" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Ladies' and Misses' Waists for Outer Wear.
Claims use since Sept. 17, 1915.

Ser. No. 128,600. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED L. GRANGER, Benton Harbor, Mich. Filed Feb. 19, 1920.



No claim is made to the pictorial representation of the goods apart from the mark shown.
Particular description of goods.—Fruits—Namely, Concord Grapes in Their Natural State.
Claims use since Sept. 1, 1919.

Ser. No. 128,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUTUAL SERVICE CORPORATION, New York, N. Y. Filed Feb. 19, 1920.

Sugarspuds

Particular description of goods.—Sweet Potatoes in Their Natural State.
Claims use since Feb. 14, 1920.

Ser. No. 128,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL P. WOOLLEY, New York, N. Y. Filed Feb. 19, 1920.

Woolleys Faultless BREAD

I hereby disclaim registration of the words "Faultless Bread."
Particular description of goods.—Bread.
Claims use since Jan. 9, 1920.

Ser. No. 128,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL P. WOOLLEY, New York, N. Y. Filed Feb. 19, 1920.

Woolley's Nu Bread

I hereby disclaim registration of the words "Nu-Bread."
Particular description of goods.—Bread.
Claims use since Jan. 9, 1920.

Ser. No. 128,689. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEYSTONE DRILLER COMPANY, Beaver Falls, Pa. Filed Feb. 20, 1920.

DOWNIE

Particular description of goods.—Deep-Well Pumps, Windmill-Pumps, Sand-Pumps, Water-Pumps, Centrifugal Pumps, Pumping Outfits, Pump-Valves, Mine-Pumps, Force-Pumps, and Lift-Pumps.
Claims use since 1912.

Ser. No. 128,690. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LAMB RAILWAY SERVICE CO., LTD., Windsor, Canada, and Detroit, Mich. Filed Feb. 20, 1920.

LAMCO

Particular description of goods.—Automobile and Furniture Polish.
Claims use since about August, 1919.

Ser. No. 128,703. (CLASS 32. FURNITURE AND UPHOLSTERY.) SALISBURY & SATTERLEE CO., Minneapolis, Minn. Filed Feb. 20, 1920.

S 1877 & S
SLUMBER SERVICE

Particular description of goods.—Mattresses, Metal Beds, Couches, Cribs, Bed-Springs, and Cots.
Claims use since the 20th day of January, 1920.

Ser. No. 128,737. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MASON, DAVIS & COMPANY, Chicago, Ill. Filed Feb. 21, 1920.

"De Luxe"

The term "De Luxe" is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Weighing-Scales.
Claims use since March, 1913.

Ser. No. 128,745. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY P. STRASBAUGH, Aberdeen, Md., assignor to National Canners Association, Washington, D. C. Filed Feb. 21, 1920.

THE MIRACLE ON YOUR TABLE

Particular description of goods.—Foods in Hermetically Sealed Cans—Namely, Canned Fruits, Canned Vegetables, Canned Fish, Canned Milk, Canned Shell-Fish, Canned Soups, Canned Syrups for Food Purposes, Canned Molasses.
Claims use since Feb. 16, 1920.

Ser. No. 128,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM A. EASTERDAY, Washington, D. C. Filed Feb. 24, 1920.



The words "Old Time-Home Made Candies" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Candies.
Claims use since the 21st of February, 1920.

Ser. No. 128,843. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. HERRMANN COMPANY, San Francisco, Calif. Filed Feb. 24, 1920.

CROWN BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Hops.
Claims use since 1880.

Ser. No. 128,895. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BETTIE PARKER, Lackawanna, N. Y. Filed Feb. 25, 1920.

SARDONYX

Particular description of goods.—Soap.
Claims use since Sept. 1, 1919.

Ser. No. 128,897. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PAL-O'-MINE SANITARY SOAP COMPANY, INC., Leavenworth, Kans. Filed Feb. 25, 1920.

PAL-O-MINE

Particular description of goods.—Powdered Soap.
Claims use since Oct. 17, 1919.

Ser. No. 128,913. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ARMOUR AND COMPANY, Chicago, Ill. Filed Feb. 26, 1920.

La Boheme

Particular description of goods.—Musical-Instrument Strings.
Claims use since on or about Jan. 15, 1917.

Ser. No. 128,914. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ARMOUR AND COMPANY, Chicago, Ill. Filed Feb. 26, 1920.

IL TROVATORE

Particular description of goods.—Musical-Instrument Strings.
Claims use since on or about Jan. 1, 1915.

Ser. No. 128,926. (CLASS 37. PAPER AND STATIONERY.) JAMES F. HUTCHISON, Rochester, N. Y. Filed Feb. 26, 1920.

Phone-Dex

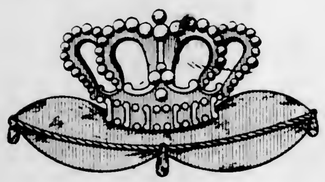
Particular description of goods.—A Telephone-Index Blank.
Claims use since Mar. 6, 1915.

Ser. No. 128,980. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 27, 1920.



No claim is made for the word "Soap" except as shown in the accompanying drawing.
Particular description of goods.—Soap.
Claims use since Oct. 9, 1909.

Ser. No. 128,987. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME PACKING CO., Chicago, Ill. Filed Feb. 28, 1920.



The trade-mark consists of the picture of partially-red crown on a red pillow.
Particular description of goods.—Canned Pork and Beans, Apple Butter, Jams, and Jelly.
Claims use since Aug. 8, 1919.

Ser. No. 128,991. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 28, 1920.

1822

Particular description of goods.—Writing-Paper and Mailing-Envelops.
Claims use since on or about Feb. 3, 1920.

Ser. No. 128,992. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Feb. 28, 1920. Under ten-year proviso.

HURLBUT

Particular description of goods.—Writing-Paper and Printing-Paper.
Claims use since Dec. 31, 1894.

Ser. No. 129,037. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ANTI-BACILLI COMPANY, St. Louis, Mo. Filed Mar. 1, 1920.

Sani-Talk

Particular description of goods.—Mouth-piece Attachments for the Transmitters of Telephones.
Claims use since Aug. 1, 1919.

Ser. No. 129,097. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SERVICE STATION SUPPLY CO., Detroit, Mich. Filed Mar. 1, 1920.

ÇADMO

Particular description of goods.—Battery-Testers.
Claims use since about Jan. 2, 1920.

Ser. No. 129,149. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) M. & G. NOVELTY COMPANY, Attleboro, Mass. Filed Mar. 2, 1920.

KRINKLE KLASP

No claim is made to the words "Krinkle Klasp" or "Crinkle Clasp" except in the form shown in the drawing.
Particular description of goods.—Lingerie-Clasps, Scarf-Clasps, Collar-Clasps, and Bib-Clasps.
Claims use since July 1, 1919.

Ser. No. 129,169. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BURGESS BATTERY COMPANY, Madison, Wis. Filed Mar. 3, 1920.

UNIPLEX

Particular description of goods.—Electric Batteries.
Claims use since June 20, 1919.

Ser. No. 129,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIXIE FRUIT PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 3, 1920.

OKRATOES

The trade-mark has been continuously used in the business of said company since July, 1919, and was first used for shipment in interstate commerce in November, 1919.
Particular description of goods.—Canned Vegetables—Namely, Okra.

Ser. No. 129,242. (CLASS 37. PAPER AND STATIONERY.) OSBORN PAPER CO., Marion, Ind. Filed Mar. 4, 1920.

Flaxlawn

Particular description of goods.—Writing-Tablets, Mailing-Envelops, Papeteries, and Writing-Papers.
Claims use since Dec. 1, 1911.

Ser. No. 129,267. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES FRED MAUS, Chicago, Ill. Filed Mar. 5, 1920.



Particular description of goods.—Razors, Pocket-Knives, Scissors, Hair-Clips, Steel Table-Knives and Table-Forks, and Nickel-Plated Table-Knives and Table-Forks.
Claims use since Dec. 10, 1919.

Ser. No. 129,268. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES FRED MAUS, Chicago, Ill. Filed Mar. 5, 1920.



Particular description of goods.—Razors, Pocket-Knives, Scissors, Hair-Clips, Steel Table-Knives and Table-Forks, and Nickel-Plated Table-Knives and Table-Forks.
Claims use since Dec. 10, 1919.

Ser. No. 129,365. (CLASS 39. CLOTHING.) Z. AND S. MIDDY CO., New York, N. Y. Filed Mar. 6, 1920.



Particular description of goods.—Middy-Blouses.
Claims use since Feb. 14, 1920.

Ser. No. 129,366. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ARMOUR AND COMPANY, Chicago, Ill. Filed Mar. 8, 1920.

LA TRAVIATA

Particular description of goods.—Musical-Instrument Strings.
Claims use since on or about Jan. 15, 1917.

Ser. No. 129,367. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ARMOUR AND COMPANY, Chicago, Ill. Filed Mar. 8, 1920.

LA MELODIA

Particular description of goods.—Musical-Instrument Strings.
Claims use since on or about Jan. 1, 1915.

Ser. No. 129,386. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HARTFORD BATTERY MANUFACTURING COMPANY, Hartford, Conn. Filed Mar. 8, 1920.



Particular description of goods.—Storage Batteries and Parts Thereof.
Claims use since June 3, 1919.

Ser. No. 129,389. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HOOSIER CHEMICAL COMPANY, Mount Carmel, Ill. Filed Mar. 8, 1920.

HOUSE KEEPER'S FRIEND

Particular description of goods.—Stove-Polish.
Claims use since about Mar. 17, 1906.

Ser. No. 129,413. (CLASS 39. CLOTHING.) MULLER EXPORT COMPANY, INC., New York, N. Y., and Chicago, Ill. Filed Mar. 8, 1920.

TULIPAN NEGRO

Particular description of goods.—Hosiery.
Claims use since Dec. 18, 1917.

Ser. No. 129,438. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AERO PRODUCTS COMPANY, Cleveland, Ohio. Filed Mar. 9, 1920.

AERO

Particular description of goods.—Carbureters.
Claims use since May 1, 1918.

Ser. No. 129,460. (CLASS 39. CLOTHING.) WILLARD E. GRAVES, New York, N. Y. Filed Mar. 9, 1920.

The May Belle DRESS

Consisting of the words "The May Belle Dress," no claim being made to the word "Dress" apart from the mark as shown in the drawing."
Particular description of goods.—Children's Dresses.
Claims use since Jan. 26, 1920.

Ser. No. 129,467. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. N. MATTHEWS AND BROTHER, INC., St. Louis, Mo. Filed Mar. 9, 1920.

ATOMATIC SPRAGUN

Particular description of goods.—Liquid and Dry-Powder Sprayers, Such as Atomizers, Spray-Nozzles, and Devices Utilizing a Current of Air for Atomizing and Spraying Liquids or Dry Powdered Material.
Claims use since on or about Apr. 17, 1919.

Ser. No. 129,495. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRIEDMAN & MOSS, INC., New York, N. Y. Filed Mar. 10, 1920.

INSPIRATION

Particular description of goods.—Plain and Printed Broad Silks in Pieces.
Claims use since Mar. 26, 1919.

Ser. No. 129,512. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOLON PALMER, New York, N. Y. Filed Mar. 10, 1920.

Palmer

Consisting of the word "Palmer" with an underscoring paraph, the same being in the handwriting of Solon Palmer, the founder of the business.
Particular description of goods.—Toilet and Shaving Soap.
Claims use since 1888.

Ser. No. 129,518. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM UNDERWOOD COMPANY, Boston, Mass. Filed Mar. 10, 1920.

OLIVA BRAND

The word "Brand" is disclaimed apart from the other features of the mark.
Particular description of goods.—Canned Sardines.
Claims use since Dec. 6, 1919.

Ser. No. 129,536. (CLASS 37. PAPER AND STATIONERY.) CHARLES F. CLARKE, Madison, Wis. Filed Mar. 11, 1920.

EVERITE

Particular description of goods.—A Feeding Attachment for Use with Ordinary Pens.
Claims use since Mar. 2, 1920.

Ser. No. 129,538. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE COPE-WALTON CO. INC., New York, N. Y. Filed Mar. 11, 1920.

BLIX

Consisting of the word "Blix."
Particular description of goods.—Hand-Soap.
Claims use since Feb. 27, 1920.

Ser. No. 129,546. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RALPH T. HARDING, Kansas City, Mo. Filed Mar. 11, 1920.

Ralph T Hardings

A facsimile of my signature.
Particular description of goods.—Animal Foods, Particularly Bird-Seed.
Claims use since June 1, 1919.

Ser. No. 129,553. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ADOLF KASSER, Philadelphia, Pa. Filed Mar. 11, 1920.

DEMAND

Particular description of goods.—Soap.
Claims use since Dec. 15, 1919.

Ser. No. 129,576. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. SIMPSON, SONS & CO., Philadelphia, Pa. Filed Mar. 11, 1920.

VIVIAN

Particular description of goods.—Cotton Piece Goods.
Claims use since June, 1919.

Ser. No. 129,627. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Mar. 13, 1920.

Armurette

Particular description of goods.—Silk Piece Goods.
Claims use since Mar. 2, 1920.

Ser. No. 129,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Mar. 13, 1920.

Masonilla

The mark consists of the word "Masonilla."
Particular description of goods.—Candles and Chocolates.
Claims use since Mar. 3, 1920.

Ser. No. 129,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA FLOUR MILLS CO., Omaha, Nebr. Filed Mar. 13, 1920.

RED FERN

The lining indicating the color red.
Particular description of goods.—Wheat-Flour.
Claims use since Oct. 1, 1919.

Ser. No. 129,735. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN AND COHEN CO., INC., New York, N. Y. Filed Mar. 15, 1920.

SHEERETTE

Particular description of goods.—Silk-Filled Crepe-de-Chine Piece Goods.
Claims use since Jan. 2, 1912.

Ser. No. 129,763. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED SOAP PRODUCTS CO., Rochester, N. Y. Filed Mar. 15, 1920.

MARVEL

Particular description of goods.—Washing-Tablets to be Used for Cleaning.
Claims use since Sept. 1, 1917.

Ser. No. 129,801. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHOENIX LIGHT COMPANY, Milwaukee, Wis. Filed Mar. 16, 1920.

Non-Kor

Particular description of goods.—Electric-Light-Fixture Parts.
Claims use since on or about the 10th day of January, 1920.

Ser. No. 129,838. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed Mar. 17, 1920.

Regina

Particular description of goods.—Hair-Nets.
Claims use since Aug. 1, 1919.

Ser. No. 129,839. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed Mar. 17, 1920.

MILA

Particular description of goods.—Hair-Nets.
Claims use since June 1, 1919.

Ser. No. 129,840. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed Mar. 17, 1920.

Sophia

Particular description of goods.—Hair-Nets.
Claims use since Sept. 1, 1919.

Ser. No. 129,974. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Mar. 20, 1920.

Canuck

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1920.

Ser. No. 129,991. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STATES COMPANY, Hartford, Conn. Filed Mar. 20, 1920.

alert

Particular description of goods.—Electrical Transformers.
Claims use since Nov. 21, 1919.

Ser. No. 130,131. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Mar. 24, 1920.

Orlanda

Consisting of the word "Orlanda."
Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1920.

Ser. No. 130,135. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GLASS & CO., New York, N. Y. Filed Mar. 24, 1920.

CYGNETTE

Consisting of the word "Cygnette."
Particular description of goods.—Voiles and Sateen in the Piece.
Claims use since September, 1919.

Ser. No. 130,136. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GLASS & CO., New York, N. Y. Filed Mar. 24, 1920.

Roseleigh

Consisting of the word "Roseleigh."
Particular description of goods.—Voiles and Sateen in the Piece.
Claims use since June, 1919.

Ser. No. 130,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD H. KOSS, Washington, D. C. Filed Mar. 25, 1920.



No claim being made to the word "Products" apart from the mark shown in the drawing.
Particular description of goods.—An Ointment of a Petrolatum Base Which is Impregnated with Camphor and Glycerin and Recommended for the Relief of Colds in the Head and Chapped Skin.
Claims use since Mar. 1, 1919.

Ser. No. 130,388. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NOTASEME HOSIERY COMPANY, Philadelphia, Pa. Filed Mar. 30, 1920.

"Little Kim"

Particular description of goods.—Dolls.
Claims use since on or about Feb. 16, 1920.

Ser. No. 130,406. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) "BESTOV" MANUFACTURING CO., Seattle, Wash. Filed Mar. 31, 1920.

"BESTOV"

Particular description of goods.—Electric Cookers, Electric Toasters, Electric Ovens, Electric Luminous Radiators for House-Keeping, Electric Auto-Radiator Heaters, and Electric Hot-Plates.
Claims use since about Mar. 15, 1918.

Ser. No. 130,416. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO. OF NEW YORK, INC., New York, N. Y. Filed Mar. 31, 1920. Under ten-year proviso.

HEMINWAY'S

Particular description of goods.—Natural and Artificial Silk Threads and Yarns.
Claims use since 1860.

Ser. No. 130,417. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO. OF NEW YORK, INC., New York, N. Y. Filed Mar. 31, 1920. Under ten-year proviso.

TYRIAN DYES

Particular description of goods.—Natural and Artificial Silk Threads and Yarns.
Claims use since prior to the year 1890.

Ser. No. 130,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. J. MARTIN, Austin, Tex. Filed Mar. 31, 1920.

INSECTIMUNE

Particular description of goods.—Insecticide and Vermin-Exterminator.
Claims use since Mar. 1, 1920.

Ser. No. 130,759. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) CHARLES A. HONES, INC., Brooklyn, N. Y. Filed Apr. 7, 1920.

BUZZER

Particular description of goods.—Gas Soldering-Furnaces, Soft-Metal Furnaces, Burners, and Torches.
Claims use since August, 1911.

Ser. No. 130,892. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa. Filed Apr. 9, 1920.

HAR-MAC

Particular description of goods.—Chicken-Waterers and Chicken-Coops.
Claims use since Jan. 1, 1909.

Ser. No. 130,896. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HARPER AND MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa. Filed Apr. 9, 1920.

HAR-MAC

Particular description of goods.—Bicycles.
Claims use since Jan. 1, 1909.

Ser. No. 130,928. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) F. A. PATRICK & CO., Duluth, Minn. Filed Apr. 9, 1920.

Patrick

The trade-mark consists of the surname "Patrick" in the form illustrated in the accompanying drawing, which shows a facsimile of the handwriting of Fred A. Patrick, who is the president of said corporation.
Particular description of goods.—Steam-Boilers.
Claims use since Oct. 1, 1918.

Ser. No. 131,199. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE AMERICAN CALCULATING MACHINE CO., New York, N. Y. Filed Apr. 16, 1920.

TRIUMPHATOR

Particular description of goods.—Calculating-Machines.
Claims use since Dec. 1, 1919.

TRADE-MARK REGISTRATIONS GRANTED

MAY 18, 1920.

131,392. ASPIRIN AND PHOTO-ENGRAVING CHEMICALS. ALBANY CHEMICAL COMPANY, Albany, N. Y.
Filed September 24, 1919. Serial No. 123,048. PUBLISHED MARCH 2, 1920.

131,393. CERTAIN NAMED ELECTRICAL APPARATUS. THE ADAMS & WESTLAKE COMPANY, Chicago, Ill.
Filed June 2, 1919. Serial No. 119,092. PUBLISHED FEBRUARY 10, 1920.

131,394. FLUID FOR PRIMING AND STARTING INTERNAL-COMBUSTION ENGINES. ALBANY CHEMICAL COMPANY, Albany, N. Y.
Filed September 24, 1919. Serial No. 123,049. PUBLISHED JANUARY 27, 1920.

131,395. DYES. AMERICAN ANILINE PRODUCTS INC., New York, N. Y.
Filed February 5, 1919. Serial No. 115,634. PUBLISHED JANUARY 6, 1920.

131,396. EDIBLE VEGETABLE OIL. THE AMERICAN COTTON OIL COMPANY, Union township, Hudson county, N. J., and New York, N. Y.
Filed August 13, 1919. Serial No. 121,613. PUBLISHED FEBRUARY 3, 1920.

131,397. THERMOSTATICALLY-OPERATED ELECTRIC SWITCHES. AMERICAN FIRE PREVENTION BUREAU, INC., New York, N. Y.
Filed December 4, 1919. Serial No. 125,557. PUBLISHED FEBRUARY 10, 1920.

131,398. WRITING, PRINTING, AND WRAPPING PAPERS AND MAILING-ENVELOPS. AMERICAN PAPER EXPORTS, INC., New York, N. Y.
Filed January 9, 1919. Serial No. 115,057. PUBLISHED FEBRUARY 17, 1920.

131,399. PIANOS AND PLAYER-PIANOS. AMERICAN PIANO COMPANY, New York, N. Y.
Filed November 13, 1918. Serial No. 114,147. PUBLISHED MARCH 4, 1919.

131,400. JAR-CAPPING MACHINES. THE AMERICAN PURE FOOD PROCESS CO., Baltimore, Md.
Filed September 18, 1919. Serial No. 122,810. PUBLISHED FEBRUARY 10, 1920.

131,401. GINGER-ALE, SARSAPARILLA, AND ROOT-BEER. AMERICAN STORES COMPANY, Philadelphia, Pa.
Filed June 26, 1919. Serial No. 119,969. PUBLISHED DECEMBER 9, 1919.

131,402. CERTAIN NAMED MACHINERY AND TOOLS. AMERICAN TOOL & MACHINE CO., Boston, Mass.
Filed May 22, 1919. Serial No. 118,773. PUBLISHED FEBRUARY 10, 1920.

131,403. ELASTIC AND NON-ELASTIC WEBBINGS. AMERICAN WEBBING MANUFACTURERS EXPORT CORPORATION, New York, N. Y.
Filed October 1, 1919. Serial No. 123,297. PUBLISHED FEBRUARY 10, 1920.

131,404. SHOVELS, SPADES, AND SCOOPS. AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass.
Filed June 19, 1919. Serial No. 119,757. PUBLISHED FEBRUARY 10, 1920.

131,405. NON-ALCOHOLIC NON-INTOXICATING MALTLESS NON-CEREAL BEVERAGE-PUNCH SOLD AS A SOFT DRINK. ARROW PRODUCTS CO., Peoria, Ill.
Filed December 12, 1919. Serial No. 125,872. PUBLISHED MARCH 2, 1920.

131,406. SOLDER FOR ALUMINIUM. ANGEL MIRETE AYALA, Madrid, Spain.
Filed March 12, 1919. Serial No. 116,480. PUBLISHED FEBRUARY 10, 1920.

131,407. BREAD-MAKING MACHINERY AND ACCESSORIES. BAKE-RITE OVEN MFG. COMPANY, San Francisco, Calif.
Filed March 6, 1919. Serial No. 116,322. PUBLISHED FEBRUARY 10, 1920.

131,408. HANDKERCHIEFS. HYMAN BAUMAN & CO., New York, N. Y.
Filed November 22, 1919. Serial No. 125,171. PUBLISHED FEBRUARY 10, 1920.

131,409. DOUGHNUT-MACHINES. BAUM & SCHOEL, Waterloo, Iowa.
Filed October 28, 1919. Serial No. 124,255. PUBLISHED FEBRUARY 10, 1920.

131,410. CHEWING-GUM. THE BEE BEE CONFECTION COMPANY, Dayton, Ohio.
Filed September 15, 1919. Serial No. 122,682. PUBLISHED MARCH 2, 1920.

131,411. BLIGHT-EXTERMINATOR. THEODORE BENTON, Roff, Okla.
Filed October 29, 1919. Serial No. 124,292. PUBLISHED MARCH 2, 1920.

131,412. ELECTRIC-LIGHTING PLANTS. BLACK SWAN COMPANY, Waseca, Minn.
Filed September 29, 1919. Serial No. 123,236. PUBLISHED FEBRUARY 24, 1920.

131,413. DISH-WASHING MACHINES AND SEWING-MACHINES. BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 31, 1919. Serial No. 124,384. PUBLISHED FEBRUARY 10, 1920.

131,414. BEVERAGE, NON-ALCOHOLIC. BOEDEKER & CO., Cincinnati, Ohio.
Filed October 10, 1919. Serial No. 123,605. PUBLISHED DECEMBER 30, 1919.

131,415. HAIR-NETS. SAMUEL BONAT & BRO., New York, N. Y.
Filed November 12, 1919. Serial No. 124,781. PUBLISHED FEBRUARY 24, 1920.

131,416. LOTIONS FOR SOOTHING AND TREATING IRRITATIONS OF THE SKIN. C. HARRY BONG, Chicago, Ill.
Filed March 13, 1919. Serial No. 116,517. PUBLISHED JANUARY 6, 1920.

131,417. TOILET POWDER. GEORGE BORGFELDT & CO., New York, N. Y.
Filed September 25, 1919. Serial No. 123,102. PUBLISHED JANUARY 6, 1920.

131,418. NAIL-POLISH, BRILLIANTINE, AND CUTICLE-CREAM. HERMAN J. BOSCH, New York, N. Y.
Filed October 21, 1919. Serial No. 124,041. PUBLISHED MARCH 2, 1920.

131,419. NON-INTOXICATING, NON-ALCOHOLIC, MALTLESS, NON-CEREAL, FRUIT-FLAVORED BEVERAGE SOLD AS A SOFT DRINK. BOYCE EXTRACT CO., INC., New York, N. Y.
Filed June 10, 1919. Serial No. 119,384. PUBLISHED DECEMBER 23, 1919.

131,420. SPARK-PLUGS. THE BREWSTER-GOLDSMITH CORP. INC., New York, N. Y.
Filed June 24, 1919. Serial No. 119,925. PUBLISHED FEBRUARY 24, 1920.

131,421. BRONZE INGOTS, BRONZE CASTINGS, BRONZE BILLETS, BRONZE RODS, BRONZE TUBE-BLANKS, BRONZE SHEETS, AND BRONZE WIRE. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn.
Filed August 7, 1919. Serial No. 121,334. PUBLISHED FEBRUARY 10, 1920.

131,422. GRAPE-JUICE. CALIFORNIA WINE ASSOCIATION, San Francisco, Calif.
Filed November 6, 1919. Serial No. 124,593. PUBLISHED JANUARY 6, 1920.

131,423. MEDICAL COMPOUND FOR THE TREATMENT OF SYPHILIS. WESTERN L. CAPELL, Omaha, Nebr.
Filed March 15, 1919. Serial No. 116,593. PUBLISHED JANUARY 13, 1920.

131,424. TOOTH-PASTE. ALFONSO CARRERAS, London, England.
Filed October 15, 1919. Serial No. 123,787. PUBLISHED FEBRUARY 24, 1920.

131,425. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. FRANCIS J. CATTERLIN, Long Beach, Calif.
Filed August 8, 1919. Serial No. 121,560. PUBLISHED DECEMBER 9, 1919.

131,426. NON-ALCOHOLIC, NON-INTOXICATING, MALTLESS, NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK. CELRO-KOLA CO., Portland, Oreg.
Filed October 20, 1919. Serial No. 123,961. PUBLISHED JANUARY 6, 1920.

131,427. RUBBER STAMPS, HAND STAMPING AND MARKING DEVICES. CENTURY RUBBER STAMP WORKS, New York, N. Y.
Filed May 22, 1919. Serial No. 118,776. PUBLISHED FEBRUARY 24, 1920.

131,428. COTTON, LINEN, WOOLEN, WORSTED, AND SILK PIECE GOODS AND VELVETS AND VELVETEENS IN THE PIECE. W. H. CHILDS & SON, New York, N. Y.
Filed November 4, 1919. Serial No. 124,513. PUBLISHED FEBRUARY 3, 1920.

131,429. TEXTILE FABRICS—VIZ., COTTON, LINEN, WORSTED, AND SILK PIECE GOODS AND VELVETS AND VELVETEENS IN THE PIECE. W. H. CHILDS & SON, New York, N. Y.
Filed November 6, 1919. Serial No. 124,588. PUBLISHED February 3, 1920.

131,430. NON-ALCOHOLIC NON-INTOXICATING MALTLESS NON-CEREAL BEVERAGE AND SOLD AS A SOFT DRINK. CHILL-O COMPANY, Chicago, Ill.
Filed October 20, 1919. Serial No. 123,960. PUBLISHED JANUARY 27, 1920.

131,431. PREPARATION FOR THE RELIEF OF INFLAMMATION AND PAIN BY CUTANEOUS ABSORPTION. CLAYTON CHEMICAL CO., New York, N. Y.
Filed September 23, 1919. Serial No. 123,020. PUBLISHED JANUARY 6, 1920.

131,432. LIQUID ASPIRIN. J. HOMER COLLIER, Dawson, Ga.
Filed November 1, 1919. Serial No. 124,436. PUBLISHED MARCH 2, 1920.

131,433. WHEAT-FLOUR. THE COLORADO MILLING & ELEVATOR CO., Denver and Pueblo, Colo.
Filed April 5, 1919. Serial No. 117,178. PUBLISHED FEBRUARY 10, 1920.

131,434. MOTION-PICTURE FILMS. COMMUNITY MOTION PICTURE BUREAU, New York, N. Y.
Filed August 14, 1919. Serial No. 121,658. PUBLISHED FEBRUARY 24, 1920.

131,435. GARDEN PREPARATION FOR KILLING BUGS, WORMS, AND VERMIN. CONSOLIDATED SALES COMPANY, Centralia, Mo.
Filed October 28, 1918. Serial No. 113,911. PUBLISHED MARCH 2, 1920.

131,436. CONDENSING-LENSES FOR PROJECTING APPARATUS. CORNING GLASS WORKS, Corning, N. Y.
Filed August 25, 1919. Serial No. 121,971. PUBLISHED FEBRUARY 10, 1920.

131,437. BLEACHING FLUID. FRANÇOIS CORMOND, San Francisco, Calif.
Filed October 29, 1919. Serial No. 124,296. PUBLISHED MARCH 2, 1920.

131,438. SIEVES AND CHAFFERS, BOTH FOR USE IN THRESHING-MACHINES. JOHN H. COSS, Mansfield, Ohio.
Filed August 23, 1919. Serial No. 121,926. PUBLISHED FEBRUARY 10, 1920.

131,439. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa.
Filed September 4, 1919. Serial No. 122,284. PUBLISHED JANUARY 27, 1920.

131,440. HAIR-TONIC. PETER DASKI, Ottawa, Canada.
Filed November 21, 1918. Serial No. 114,266. PUBLISHED MARCH 2, 1920.

131,441. SUGAR. HORACE L. DAY COMPANY, New York, N. Y.
Filed August 28, 1919. Serial No. 122,074. PUBLISHED MARCH 2, 1920.

131,442. CITRUS FRUITS AND AVOCADOS. JOHN H. DERBY, Rockledge, Fla.
Filed January 19, 1917. Serial No. 100,738. PUBLISHED FEBRUARY 24, 1920.

131,443. CERTAIN NAMED DRILLS. DETROIT TWIST DRILL CO., Detroit, Mich.
Filed September 12, 1919. Serial No. 122,596. PUBLISHED FEBRUARY 10, 1920.

131,444. PRESERVATIVE COMPOUND FOR PRESERVING ARTICLES OF FOOD. DEUTSCHE CONSERVIERUNGSGESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Marienfelde, near Berlin, Germany.
Filed September 15, 1919. Serial No. 122,688. PUBLISHED MARCH 2, 1920.

131,445. WATCHCASES. DINSTMAN & LASKO, INC., New York, N. Y.
Filed January 27, 1919. Serial No. 115,450. PUBLISHED SEPTEMBER 30, 1919.

131,446. MEDICINAL REMEDY FOR TREATMENT OF CHILLS, FEVERS, COLDS, LA GRIPPE, HEADACHE, AND NEURALGIA. LEINSTER DUFFY, New Bern, N. C.
Filed November 5, 1919. Serial No. 124,566. PUBLISHED FEBRUARY 24, 1920.

131,447. OINTMENT FOR LUNG CONGESTION, INFLAMMATION, CROUP, COLD, PNEUMONIA, TONSILLITIS, AND KINDRED AILMENTS. CALVIN J. DURLING, Trenton, N. J.
Filed October 30, 1919. Serial No. 124,334. PUBLISHED FEBRUARY 17, 1920.

131,448. CERTAIN NAMED KNIVES. DWIGHT DIVINE & SONS, Ellenville, N. Y.
Filed June 12, 1919. Serial No. 119,503. PUBLISHED FEBRUARY 24, 1920.

131,449. CERTAIN NAMED UNWROUGHT AND PARTLY-WROUGHT STEEL. MOSES EADON & SONS LIMITED, Sheffield, England.
Filed July 8, 1919. Serial No. 120,342. PUBLISHED FEBRUARY 10, 1920.

131,450. MIXING, KNEADING, AND MASTICATING MACHINES, ALL USED IN THE CHEMICAL, PHARMACEUTICAL, FOOD, AND ALLIED INDUSTRIES. THE EAST IRON & MACHINE CO., Lima, Ohio.
Filed July 25, 1919. Serial No. 120,912. PUBLISHED FEBRUARY 3, 1920.

131,451. ELECTRIC-LAMP PRODUCTS—NAMELY, ELECTRIC INCANDESCENT LAMPS, SPOTLIGHTS, AND SEARCHLIGHTS. ELECTRIC LAMP & PRODUCTS CO., Jersey City, N. J.
Filed July 6, 1918. Serial No. 111,959. PUBLISHED FEBRUARY 10, 1920.

131,452. DISINFECTANT AND GERMICIDE PREPARATIONS. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed October 11, 1919. Serial No. 123,701. PUBLISHED MARCH 2, 1920.

131,453. EMBALMING FLUID FOR USE IN THE VEINO-VASCULAR METHOD OF EMBALMING. THE EMBALMERS' SUPPLY COMPANY, Westport, Conn.
Filed July 22, 1919. Serial No. 120,791. PUBLISHED FEBRUARY 10, 1920.

131,454. GINGER-ALE. EQUINOX MOUNTAIN SPRING, INC., New York, N. Y.
Filed July 17, 1919. Serial No. 120,637. PUBLISHED DECEMBER 23, 1919.

131,455. DYESTUFFS. ESSEX ANILINE WORKS, INC., Boston, Mass.
Filed September 10, 1919. Serial No. 122,528. PUBLISHED JANUARY 13, 1920.

131,456. CERTAIN NAMED INTERNAL-COMBUSTION ENGINES. FAIRBANKS, MORSE & CO., Chicago, Ill.
Filed August 29, 1919. Serial No. 122,117. PUBLISHED FEBRUARY 24, 1920.

131,457. COFFEE, TEA, SPICES, AND CERTAIN NAMED FLAVORING EXTRACTS, SAID EXTRACTS BEING USED FOR FOOD PURPOSES. FARMER BROS., Los Angeles, Calif.
Filed August 18, 1919. Serial No. 121,763. PUBLISHED MARCH 2, 1920.

131,458. SPEEDOMETERS. THOMAS FARMER, Jr., New York, N. Y.
Filed September 18, 1919. Serial No. 122,830. PUBLISHED FEBRUARY 24, 1920.

131,459. CERTAIN NAMED VEGETABLE AND ANIMAL OILS AND FATS. FATS AND OILS SERVICE COMPANY, Philadelphia, Pa.
Filed August 30, 1919. Serial No. 122,161. PUBLISHED MARCH 2, 1920.

131,460. PHARMACEUTICAL PREPARATION FOR THE TREATMENT AND RELIEF OF PAIN AND RHEUMATISM. WILLIAM R. FESSLER, Kansas City, Kans.
Filed September 20, 1919. Serial No. 122,940. PUBLISHED JANUARY 20, 1920.

131,461. LINIMENTS FOR CERTAIN NAMED AFFECTIONS AND DISEASES. ANTON W. FINGL, Chicago, Ill.
Filed January 2, 1917. Serial No. 100,289. PUBLISHED DECEMBER 30, 1919.

131,462. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed November 19, 1919. Serial No. 125,084. PUBLISHED FEBRUARY 10, 1920.

131,463. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed November 19, 1919. Serial No. 125,085. PUBLISHED FEBRUARY 10, 1920.

131,464. DEVICE FOR CLEANING BRISTLE BRUSHES AND BROOMS. HENRY FRANKENSTEIN, New York, N. Y.
Filed September 24, 1919. Serial No. 123,052. PUBLISHED FEBRUARY 3, 1920.

131,465. SALVE FOR THE FEET. LENA FROLONG, Oakland, Calif.
Filed September 19, 1918. Serial No. 113,244. PUBLISHED SEPTEMBER 16, 1919.

131,466. CONCENTRATED SYRUP AND A BEVERAGE MADE FROM THE SAME BY ADDING PLAIN OR CHARGED WATER. FRUIT VALLEY CORPORATION, Rochester, N. Y.
Filed July 9, 1919. Serial No. 120,373. PUBLISHED JANUARY 20, 1920.

131,467. CERTAIN NAMED TOILET PREPARATIONS. SHINZO FUKUHARA, Tokyo, Japan.
Filed July 9, 1919. Serial No. 120,376. PUBLISHED JANUARY 20, 1920.

131,468. TONIC FOR GENERAL DEBILITY, LOSS OF FLESH AND APPETITE, AND USED IN RECUPERATING FROM WASTING DISEASES. THOMAS GEARY, Chicago, Ill.
Filed October 13, 1919. Serial No. 123,733. PUBLISHED FEBRUARY 24, 1920.

131,469. SPARK-PLUGS. GETS MANUFACTURING COMPANY, Andrews, Ind.
Filed October 20, 1919. Serial No. 123,976. PUBLISHED FEBRUARY 24, 1920.

131,470. [WITHDRAWN.]

131,471. POWDER TO BE USED IN MAKING A FACE-CREAM. FRANK A. GRAY, Kansas City, Mo.
Filed October 17, 1919. Serial No. 123,891. PUBLISHED FEBRUARY 17, 1920.

131,472. NON-ALCOHOLIC, NON-CEREAL MALTLESS BEVERAGE AND SYRUP FOR MAKING THE SAME. JULES GROETSCH, New Orleans, La.
Filed September 6, 1919. Serial No. 122,396. PUBLISHED FEBRUARY 10, 1920.

131,473. INSECTICIDES. JOHN G. GROSSENBACHER, Apopka, Fla.
Filed September 2, 1919. Serial No. 122,212. PUBLISHED JANUARY 6, 1920.

131,474. CERTAIN NAMED MACHINE-TOOLS, TRANSMISSION-GEARS, AND PARTS THEREOF. AKTIEBOLAGET GYRO, Stockholm, Sweden.
Filed July 1, 1919. Serial No. 120,147. PUBLISHED FEBRUARY 3, 1920.

131,475. PIECE GOODS COMPOSED OF SILK. HAAS BROTHERS FABRICS' CORPORATION, New York, N. Y.
Filed November 14, 1919. Serial No. 124,900. PUBLISHED FEBRUARY 3, 1920.

131,476. PIECE GOODS COMPOSED OF COTTON. HAAS BROTHERS FABRICS' CORPORATION, New York, N. Y.
Filed December 1, 1919. Serial No. 125,459. PUBLISHED FEBRUARY 10, 1920.

131,477. COMPOSITION FOR TEMPERING STEEL OR OTHER METALS. H-B TEMPERING PROCESS CO., Clearbrook, Minn.
Filed August 30, 1919. Serial No. 122,194. PUBLISHED JANUARY 6, 1920.

131,478. SHELLED NUTS AND UNSHELLED NUTS IN THEIR NATURAL STATE AND DRIED FRUITS. HABICHT AND COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,935. PUBLISHED MARCH 2, 1920.

131,479. COTTON PIECE GOODS. COHN HALL MARX CO., New York, N. Y.
Filed December 2, 1919. Serial No. 125,492. PUBLISHED FEBRUARY 10, 1920.

131,480. PHOTOGRAPHIC AND DEVELOPING PAPERS. THE HALOID COMPANY, Rochester, N. Y.
Filed May 23, 1919. Serial No. 118,832. PUBLISHED FEBRUARY 24, 1920.

131,481. GRAPE-JUICE. HAMMONDSPORT PRODUCTS CO., INC., Hammondsport, N. Y.
Filed November 15, 1919. Serial No. 124,937. PUBLISHED JANUARY 13, 1920.

131,482. SALVE TO BE USED IN THE TREATMENT OF ECZEMA. JAMES HAMPTON, Detroit, Mich.
Filed November 3, 1919. Serial No. 124,482. PUBLISHED FEBRUARY 24, 1920.

131,483. CANNED FRUITS—NAMELY, CANNED APRICOTS AND PEACHES. HARBOR CITY CANNING COMPANY, Los Angeles and Harbor City, Calif.
Filed December 27, 1919. Serial No. 126,518. PUBLISHED MARCH 2, 1920.

131,484. BLOOD REMEDY. CHAS. A. HARRIS, Dawson, Ga.
Filed October 13, 1919. Serial No. 123,738. PUBLISHED JANUARY 27, 1920.

131,485. SAW-FRAMES AND SAWING OUTFITS, CERTAIN NAMED CUTTERS, GRINDERS, CHOPPERS, BALERS, PLANTERS, AND MILLS. THE HARTMAN COMPANY, Chicago, Ill.
Filed April 16, 1919. Serial No. 117,528. PUBLISHED FEBRUARY 24, 1920.

131,486. HAIR-GROWER, PRESSING-OIL, TEMPLE-OIL, AND HAIR-DYE. GLOVER R. HAWKINS, Lexington, Mo.
Filed March 7, 1919. Serial No. 116,380. PUBLISHED MARCH 2, 1920.

131,487. TRACTORS. HEBB MOTORS COMPANY, Lincoln, Nebr.
Filed April 16, 1918. Serial No. 110,242. PUBLISHED FEBRUARY 3, 1920.

131,488. MARSHMALLOW CANDIES AND MARSHMALLOW CONFECTIONS. HENRY HEIDE, INCORPORATED, New York, N. Y.
Filed August 21, 1919. Serial No. 121,859. PUBLISHED MARCH 2, 1920.

131,489. SPARK-PLUGS. HILL INSULATING & MANUFACTURING CORP., New York, N. Y.
Filed November 8, 1919. Serial No. 124,683. PUBLISHED FEBRUARY 10, 1920.

131,490. ELECTRICALLY-DRIVEN BEATING AND MIXING MACHINES. THE HOBART MANUFACTURING COMPANY, Troy, Ohio.
Filed December 9, 1919. Serial No. 125,751. PUBLISHED FEBRUARY 10, 1920.

131,491. INTERNAL-COMBUSTION ENGINES. THE HOLT MANUFACTURING COMPANY, Stockton, Calif.
Filed August 13, 1919. Serial No. 121,626. PUBLISHED FEBRUARY 10, 1920.

131,492. POWDERED PREPARATION IN THE NATURE OF A SOAP FOR CLEANSING AND BEAUTIFYING THE SKIN. HOLTON & ADAMS, New York, N. Y.
Filed August 26, 1919. Serial No. 122,014. PUBLISHED FEBRUARY 10, 1920.

131,493. NON-ALCOHOLIC NON-CEREAL MALTLESS CARBONATED BEVERAGE IN VARIOUS FLAVORS SOLD AS A SOFT DRINK. HOME DISTRIBUTING CO., St. Louis, Mo.
Filed August 14, 1919. Serial No. 121,671. PUBLISHED DECEMBER 23, 1919.

131,494. LAXATIVE TABLET. HOWARD B. HOVERMALE, Brunswick, Md.
Filed October 16, 1919. Serial No. 123,855. PUBLISHED MARCH 2, 1920.

131,495. GOLD-LEAF, METAL-LEAF, AND COMPOSITION LEAF. PHILIP A. HUNT COMPANY, New York, N. Y.
Filed October 31, 1919. Serial No. 124,401. PUBLISHED FEBRUARY 24, 1920.

131,496. LUNG MEDICINE. FRANCES ELLIOTT HUNTER, Dallas, Tex.
Filed February 7, 1919. Serial No. 115,676. PUBLISHED FEBRUARY 24, 1920.

131,497. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. THE HYGEIA BEVERAGE CO., Natick, Mass.
Filed September 25, 1919. Serial No. 123,121. PUBLISHED DECEMBER 30, 1919.

131,498. ELECTRIC MILK AND CREAM TESTERS. IMPERIAL ELECTRICAL CO., Union City, Ind.
Filed August 2, 1919. Serial No. 121,205. PUBLISHED FEBRUARY 24, 1920.

131,499. COCOANUT-OIL. INDIA REFINING COMPANY, Philadelphia, Pa.
Filed February 13, 1919. Serial No. 115,839. PUBLISHED MARCH 2, 1920.

131,500. PAPER-INSULATED METAL-COVERED CONDUITS AND FITTINGS COMPRISING ELBOWS, T's, AND SIMILAR COUPLINGS. INTERNATIONAL CONDUIT CORPORATION, New York, N. Y.
Filed May 19, 1919. Serial No. 118,674. PUBLISHED FEBRUARY 10, 1920.

131,501. BUTTER-CHURNS AND PARTS THEREOF. INTERNATIONAL MANUFACTURING COMPANY OF TEXAS, Dallas, Tex.
Filed September 19, 1919. Serial No. 122,894. PUBLISHED FEBRUARY 24, 1920.

131,502. PREPARATIONS USED FOR INTRAMUSCULAR, INTRAVENOUS, SUBCUTANEOUS, OR LOCAL ADMINISTRATION. THE INTRAVENOUS PRODUCTS COMPANY, Denver, Colo.
Filed August 26, 1919. Serial No. 122,016. PUBLISHED JANUARY 27, 1920.

131,503. CANNED TOMATOES, CANNED TOMATO PASTE, CANNED TOMATO SAUCE, AND CANNED TOMATO CONCENTRATE, CANNED STRING-BEANS. ITALIAN FOOD PRODUCTS CO., Los Angeles, Calif.
Filed August 18, 1919. Serial No. 121,769. PUBLISHED MARCH 2, 1920.

131,504. NON-ALCOHOLIC MALTLESS CEREAL BEVERAGES SOLD AS SOFT DRINKS CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. JACKSON BREWING COMPANY, New Orleans, La.
Filed November 24, 1919. Serial No. 125,232. PUBLISHED FEBRUARY 24, 1920.

131,505. LIQUID EYEGLASS-CLEANER. CHARLES JACKNOWITZ, Union Hill, N. J.
Filed September 18, 1919. Serial No. 122,836. PUBLISHED FEBRUARY 10, 1920.

131,506. CONDENSED INK FOR MAKING WRITING FLUID. JASMINE INK CORPORATION, Norfolk, Va.
Filed March 3, 1919. Serial No. 116,265. PUBLISHED FEBRUARY 24, 1920.

131,507. PERFUMERY, TOILET WATER, FACE-POWDER, FACE-CREAM, AND TALCUM POWDER. JENNINGS MANUFACTURING COMPANY, Grand Rapids, Mich.
Filed May 16, 1919. Serial No. 118,559. PUBLISHED JANUARY 20, 1920.

131,508. CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. JETTER BEVERAGE COMPANY, Omaha, Nebr.
Filed September 16, 1919. Serial No. 122,775. PUBLISHED MARCH 2, 1920.

131,509. RIBBONS IN THE PIECE. JOHNSON, COWDIN AND CO., INC., New York, N. Y.
Filed October 28, 1919. Serial No. 124,273. PUBLISHED FEBRUARY 24, 1920.

131,510. CANDIES. SHUTTER JOHNSON CANDY CO., Chicago, Ill.
Filed April 8, 1919. Serial No. 117,281. PUBLISHED MARCH 2, 1920.

131,511. INSECT-POWDER. HARRY KAYE, Yonkers, N. Y.
Filed August 20, 1918. Serial No. 112,805. PUBLISHED DECEMBER 30, 1919.

131,512. MEDICAL PREPARATION FOR HEADACHES AND NERVOUS DISEASES. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed February 19, 1919. Serial No. 115,983. PUBLISHED JANUARY 6, 1920.

131,513. PREPARATION FOR THE TREATMENT OF RHEUMATISM AND CYSTITIS. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed February 19, 1919. Serial No. 115,984. PUBLISHED JANUARY 6, 1920.

131,514. MEDICINAL REMEDY FOR COLDS AND MALARIA. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed February 19, 1919. Serial No. 115,985. PUBLISHED JANUARY 6, 1920.

131,515. ELECTRIC OVENS FOR BAKING BREAD, PASTRY, AND BAKERY PRODUCTS. KEEPS-FRESH ELECTRIC BAKERIES, Chicago, Ill.
Filed September 16, 1919. Serial No. 122,777. PUBLISHED FEBRUARY 10, 1920.

131,516. IRON, SHEAR-STEEL, HIGH-SPEED STEEL, SPRING-STEEL, BLISTER-STEEL, AND ALLOY STEELS. JOHN KENYON & CO. (Sheffield,) Limited, Sheffield, England.
Filed June 24, 1919. Serial No. 119,893. PUBLISHED FEBRUARY 24, 1920.

131,517. IRON, SHEAR-STEEL, HIGH-SPEED STEEL, SPRING-STEEL, BLISTER-STEEL, AND ALLOY STEELS. JOHN KENYON & CO. (Sheffield,) Limited, Sheffield, England.
Filed June 24, 1919. Serial No. 119,894. PUBLISHED FEBRUARY 24, 1920.

131,518. IRON, SHEAR-STEEL, HIGH-SPEED STEEL, SPRING-STEEL, BLISTER-STEEL, AND ALLOY STEELS. JOHN KENYON & CO. (Sheffield,) Limited, Sheffield, England.
Filed June 24, 1919. Serial No. 119,900. PUBLISHED FEBRUARY 24, 1920.

131,519. NON-ALCOHOLIC NON-INTOXICATING MALTLESS NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK AND SYRUP FOR MAKING SAME. SAMUEL KLAUSNER, Chicago, Ill.
Filed September 19, 1919. Serial No. 122,896. PUBLISHED DECEMBER 30, 1919.

131,520. REMEDY FOR LA GRIPPE, COLDS, AND HEADACHE. DAVID KLEBANOFF, Philadelphia, Pa.
Filed September 19, 1919. Serial No. 122,895. PUBLISHED JANUARY 27, 1920.

131,521. BLOATER PASTE, ANCHOVY PASTE, SARDINE PASTE, SARDELLEN-BUTTER, ROQUEFORT-CHEESE DRESSING, SALMON PASTE. LOUIS KLIMA, New York, N. Y.
Filed August 22, 1919. Serial No. 121,903. PUBLISHED MARCH 2, 1920.

131,522. STARCH FOR LAUNDRY PURPOSES AND IN TREATING TEXTILES. H. KOHNSTAMM & CO., New York, N. Y.
Filed September 22, 1919. Serial No. 122,987. PUBLISHED JANUARY 6, 1920.

131,523. FORCE-FEED OILERS FOR CERTAIN NAMED ENGINES, PUMPS, AND MOTORS. HERBERT D. LAFFERTY, Oakland, Calif.
Filed August 20, 1919. Serial No. 121,836. PUBLISHED FEBRUARY 3, 1920.

131,524. SOAPS. A. W. LAMBERT, Jr. & COMPANY, St. Louis, Mo.
Filed September 29, 1919. Serial No. 123,250. PUBLISHED FEBRUARY 10, 1920.

131,525. NON-ALCOHOLIC MALTLESS NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS AND FLAVORING-SYRUPS THEREFOR. ERNEST W. LAPORTE, New Orleans, La.
Filed February 17, 1919. Serial No. 115,919. PUBLISHED DECEMBER 30, 1919.

131,526. ANILIN COLORS, DRY AND LIQUID DYE-COLORS, DYES, AND DYESTUFFS. LANMAN & KEMP, New York, N. Y., assignors to Lanman & Kemp, Inc., a Corporation of New York.
Filed May 20, 1919. Serial No. 118,736. PUBLISHED FEBRUARY 3, 1920.

131,527. HAARLEM OIL FOR KIDNEY, LIVER, BLADDER, RHEUMATISM, AND URIC-ACID TROUBLES. H. R. LATHROP & CO. INC., New York, N. Y.
Filed March 5, 1919. Serial No. 116,305. PUBLISHED MARCH 2, 1920.

131,528. CERTAIN NAMED STEEL KNIVES. LAMSON AND GOODNOW MANUFACTURING COMPANY, Shelburne Falls, Mass.
Filed December 26, 1918. Serial No. 114,827. PUBLISHED FEBRUARY 10, 1920.

131,529. WRITING-TABLETS. THE H. D. LEE MERCANTILE CO., Salina, Kans., and Kansas City, Mo., assignor to Kansas Book Dealers Association, a Corporation of Kansas.
Filed May 16, 1919. Serial No. 118,567. PUBLISHED FEBRUARY 10, 1920.

131,530. HEAVE REMEDY FOR HORSES. GEORGE LEICHT, Hancock, N. Y.
Filed July 26, 1918. Serial No. 112,340. PUBLISHED DECEMBER 30, 1919.

131,531. WHEAT-FLOUR. JOHN F. LENNON, Providence, R. I.
Filed February 26, 1918. Serial No. 109,228. PUBLISHED MAY 13, 1919.

131,532. CAKE FACE-POWDER USED FOR THE COMPLEXION. FLORENCE N. LEWIS, New York, N. Y.
Filed November 21, 1918. Serial No. 114,306. PUBLISHED FEBRUARY 24, 1920.

131,533. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. G. J. LIEBICH CO., Chicago, Ill.
Filed September 3, 1918. Serial No. 112,987. PUBLISHED NOVEMBER 26, 1918.

131,534. ENGINES, LOCOMOTIVES, AND THEIR PARTS, MOTORS, MACHINES, FUEL-CONTAINERS FOR SAID ENGINES, LOCOMOTIVES, AND MOTORS. LOCOMOTIVE PULVERIZED FUEL COMPANY, New York, N. Y.
Filed April 3, 1918. Serial No. 109,949. PUBLISHED FEBRUARY 10, 1920.

131,535. BUTTER. V. LOPEZ & COMPANY, INC., New York, N. Y.
Filed August 9, 1919. Serial No. 121,476. PUBLISHED MARCH 2, 1920.

131,536. LEMON-SQUASH AND LIME-JUICE. LONDON 'O-T' LIMITED, Blackfriars, London, England, and Prahran, Victoria, Australia.
Filed November 21, 1919. Serial No. 125,159. PUBLISHED JANUARY 27, 1920.

131,537. CERTAIN NAMED WELL-DRILLING MACHINERY AND TOOLS AND WELL EQUIPMENT. LONGHORN DRILLING & DEVELOPMENT ASSOCIATION, Fort Worth, Tex.
Filed September 18, 1919. Serial No. 122,842. PUBLISHED JANUARY 27, 1920.

131,538. PERFUMES, TOOTH-POWDER, TOILET POWDERS, TOILET WATERS, TOILET CREAMS, AND LOTIONS, AND HAIR-TONIC. THE LORENZ COMPANY, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio, a Corporation of Ohio.
Filed February 5, 1918. Serial No. 108,831. PUBLISHED JANUARY 13, 1920.

131,539. TOILET LOTION. THE LORENZ COMPANY, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio, a Corporation of Ohio.
Filed February 5, 1918. Serial No. 108,834. PUBLISHED FEBRUARY 10, 1920.

131,540. TOOTH-POWDER AND FOOT-POWDER. THE LORENZ COMPANY, Everett, Mass.
Filed February 5, 1918. Serial No. 108,835. PUBLISHED JANUARY 20, 1920.

131,541. PERFUME, TOILET WATER, FACE-POWDER, TALCUM POWDER, TOILET CREAM, AND SACHET. THE LUNDBORG COMPANY, New York, N. Y.
Filed July 15, 1919. Serial No. 120,572. PUBLISHED JANUARY 6, 1920.

131,542. SPARK-PLUGS. LYLON MANUFACTURING CO., Chicago, Ill.
Filed October 2, 1919. Serial No. 123,356. PUBLISHED FEBRUARY 24, 1920.

131,543. INSECTICIDES. MCDOUGALL BROTHERS, LIMITED, Manchester, England.
Filed August 12, 1919. Serial No. 121,595. PUBLISHED MARCH 2, 1920.

131,544. SEED-PLANTING ATTACHMENTS FOR HOES OR OTHER GARDENING AND CULTIVATING INSTRUMENTS. WALLACE D. MCLAUGHLIN, Fort Scott, Kans.
Filed May 3, 1919. Serial No. 118,115. PUBLISHED FEBRUARY 24, 1920.

131,545. CASTOR-OIL, EPSOM SALTS, AND SULFUR. MALONE & HYDE, Memphis, Tenn.
Filed April 16, 1918. Serial No. 110,254. PUBLISHED JANUARY 27, 1920.

131,546. CARBONATED WATER. CONSTANTINE G. MANGOS, Davenport, Iowa.
Filed October 8, 1919. Serial No. 123,551. PUBLISHED DECEMBER 30, 1919.

131,547. LIQUID ANTISEPTIC. ALEXANDER SEYMOUR MANN, Providence, R. I.
Filed August 4, 1919. Serial No. 121,249. PUBLISHED JANUARY 6, 1920.

131,548. COTTON, WOOL, SILK, AND LINEN PIECE GOODS. MANUFACTURERS TEXTILE CO. INC., New York, N. Y.
Filed October 4, 1919. Serial No. 123,445. PUBLISHED FEBRUARY 24, 1920.

131,549. WORM-EXTERMINATOR. C. J. MARTIN, Austin, Tex.
Filed November 8, 1919. Serial No. 124,689. PUBLISHED FEBRUARY 24, 1920.

131,550. REMEDY FOR RHEUMATISM AND SCIATICA. SALVATORE MAZZONE, Brooklyn, N. Y.
Filed June 12, 1919. Serial No. 119,526. PUBLISHED FEBRUARY 10, 1920.

131,551. WHEAT-FLOUR. THE MENNEL MILLING COMPANY, Toledo, Ohio.
Filed January 11, 1919. Serial No. 115,124. PUBLISHED MARCH 18, 1919.

131,552. COMPOUND AND OINTMENT OF IODIN AND OIL. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed September 25, 1919. Serial No. 123,132. PUBLISHED JANUARY 6, 1920.

131,553. DYESTUFFS AND CHEMICALS USED IN DYEING AND PRINTING ON CALICO OR OTHER TEXTILE FABRICS. HERMAN A. METZ, New York, N. Y.
Filed June 10, 1919. Serial No. 119,425. PUBLISHED JANUARY 6, 1920.

131,554. PIECE GOODS OF COTTON, SILK, AND SILK AND COTTON MIXTURES. MORCOTT CO. INC., New York, N. Y.
Filed November 14, 1919. Serial No. 124,913. PUBLISHED FEBRUARY 10, 1920.

131,555. SWEETENED CONDENSED MILK AND UNSWEETENED EVAPORATED MILK. ROBERT G. MOREY, North Prairie, Wis.
Filed August 4, 1919. Serial No. 121,257. PUBLISHED MARCH 2, 1920.

131,556. LAUNDRY BLUING. C. A. MURDOCK MFG. CO., Kansas City, Mo.
Filed November 6, 1919. Serial No. 124,615. PUBLISHED FEBRUARY 24, 1920.

131,557. CURED AND PRESERVED FISH, EDIBLE VIRGIN VEGETABLE OILS, AND DRESSINGS FOR MEATS, FISH, GAME, SALADS, &c. MUSHER & COMPANY, INCORPORATED, New York, N. Y.; Baltimore, Md.; San Diego, Calif., and Washington, D. C.
Filed May 9, 1919. Serial No. 118,318. PUBLISHED MARCH 2, 1920.

131,558. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed May 28, 1919. Serial No. 118,996. PUBLISHED DECEMBER 30, 1919.

131,559. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed May 28, 1919. Serial No. 119,000. PUBLISHED JANUARY 6, 1920.

131,560. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed May 28, 1919. Serial No. 119,004. PUBLISHED JANUARY 6, 1920.

131,561. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed June 9, 1919. Serial No. 119,367. PUBLISHED JANUARY 6, 1920.

131,562. METAL PIPE-COUPLINGS, METAL PIPES, METAL TUBES, AND METAL CASINGS. NATIONAL TUBE COMPANY, Pittsburgh, Pa.
Filed August 29, 1919. Serial No. 122,130. PUBLISHED FEBRUARY 10, 1920.

131,563. HAIR-TONIC. JOSEPH B. NAYBERGER, McMinnville, Oreg.
Filed September 24, 1919. Serial No. 123,074. PUBLISHED FEBRUARY 10, 1920.

131,564. CERTAIN NAMED METAL WARE. THE NEW ENGLAND ENAMELING COMPANY, Middletown, Conn.
Filed March 6, 1919. Serial No. 116,347. PUBLISHED FEBRUARY 10, 1920.

131,565. INSECTICIDES. NITRATE AGENCIES COMPANY, New York, N. Y.
Filed September 25, 1919. Serial No. 123,135. PUBLISHED MARCH 2, 1920.

131,566. BREAD. IVAN B. NORDHEM COMPANY, New York, N. Y.
Filed June 20, 1919. Serial No. 119,809. PUBLISHED FEBRUARY 10, 1920.

131,567. SHAMPOO AND HAIR-TONIC. EUGENE OGUR, Jersey City, N. J.
Filed November 7, 1919. Serial No. 124,662. PUBLISHED FEBRUARY 24, 1920.

131,568. PHONOGRAPHS OR TALKING-MACHINES AND SOUND-BOXES AND TONE-ARMS FOR PHONOGRAPHS OR TALKING-MACHINES. THE OROTONE CO., Chicago, Ill.
Filed June 24, 1919. Serial No. 119,914. PUBLISHED FEBRUARY 24, 1920.

131,569. INTERNAL-COMBUSTION ENGINES, STEAM-ENGINES, GAS ENGINES, AND COMPRESSED-AIR MOTORS. HANDLEY PAGE LIMITED, Cricklewood, London, England.
Filed June 25, 1919. Serial No. 119,946. PUBLISHED FEBRUARY 24, 1920.

131,570. HAIR-NETS. PARISTYLE NOVELTY CO., INC., New York, N. Y.
Filed August 1, 1919. Serial No. 121,182. PUBLISHED JANUARY 27, 1920.

131,571. COLD-CREAM. FREDERICK R. PARKER, Chicago, Ill.
Filed November 7, 1919. Serial No. 124,666. PUBLISHED FEBRUARY 24, 1920.

131,572. PINEAPPLE-EXTRACT SYRUP USED FOR THE MAKING OF NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES. PEARL CITY FRUIT CO. LTD., Honolulu, Territory of Hawaii.
Filed September 19, 1919. Serial No. 122,912. PUBLISHED JANUARY 6, 1920.

131,573. SALVE USED IN THE TREATMENT OF WOUNDS, SORES, AND SIMILAR AILMENTS. VASILL PEPPAS, Braddock, Pa.
Filed October 17, 1919. Serial No. 123,903. PUBLISHED FEBRUARY 24, 1920.

131,574. MEDICATED OIL FOR CERTAIN NAMED AFFECTIONS AND DISEASES. THE PEPSOTONE COMPANY, Huntington, W. Va.
Filed October 30, 1918. Serial No. 113,945. PUBLISHED JANUARY 6, 1920.

131,575. TOOTH-POWDER. ARNOLD B. PETERS, San Francisco, Calif.
Filed July 28, 1919. Serial No. 121,019. PUBLISHED JANUARY 6, 1920.

131,576. WHEAT PANCAKE-FLOUR, PARCHED BRAN, INDIAN MINTURE, BUCKWHEAT PANCAKE-FLOUR, AND PARCHED WHEAT. PETTIJOHN PURE PRODUCTS CO., Minneapolis, Minn.
Filed October 1, 1917. Serial No. 106,544. PUBLISHED MARCH 2, 1920.

131,577. COSMETICS FOR CERTAIN NAMED PURPOSES. PHILO-DERMA COMPANY, Chicago, Ill.
Filed January 20, 1919. Serial No. 115,325. PUBLISHED FEBRUARY 10, 1920.

131,578. REMEDIES TO CORRECT AN ACID CONDITION OF THE STOMACH. MILAN FRANCIS PRATT, Rochester, N. Y.
Filed January 14, 1918. Serial No. 108,461. PUBLISHED FEBRUARY 10, 1920.

131,579. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. PRECISION INSTRUMENT COMPANY, Detroit, Mich.
Filed October 13, 1917. Serial No. 106,760. PUBLISHED FEBRUARY 10, 1920.

131,580. AEROPLANE-DOPE, (A PREPARATION FOR COATING, SHRINKING, AND FILLING THE CLOTH WINGS OF AEROPLANES). PRATT & LAMBERT—INC., Buffalo, N. Y.
Filed February 26, 1918. Serial No. 109,225. PUBLISHED MARCH 2, 1920.

131,581. COTTON GOODS IN THE PIECE. PRINCE LAUTEN CO., New York, N. Y.
Filed November 15, 1919. Serial No. 124,948. PUBLISHED FEBRUARY 3, 1920.

131,582. NON-ALCOHOLIC, NON-CEREAL (EXCEPT FOR A CEREAL EXTRACT) MALTLESS AND UNFERMENTED BEVERAGE FOR USE AS A SOFT DRINK. THE PURE BEVERAGE COMPANY, Toledo, Ohio.
Filed October 27, 1919. Serial No. 124,228. PUBLISHED DECEMBER 30, 1919.

131,583. SILK PIECE GOODS. PURITAN SILKS CORPORATION, Chicago, Ill.
Filed November 28, 1919. Serial No. 125,401. PUBLISHED FEBRUARY 10, 1920.

131,584. PIECE GOODS—NAMELY, CERTAIN NAMED SHIRTINGS. QUINEBAUG COMPANY, Danielson, Conn.
Filed October 24, 1919. Serial No. 124,150. PUBLISHED FEBRUARY 10, 1920.

131,585. LUMINOUS MATERIAL—NAMELY, COMPOUNDS CONTAINING ZINC SULFID AND RADIUM. RADIUM LUMINOUS MATERIAL CORPORATION, New York, N. Y.
Filed August 9, 1919. Serial No. 121,486. PUBLISHED FEBRUARY 10, 1920.

131,586. CHOCOLATES. DONALD A. RAND, Stoughton, Mass.
Filed December 13, 1919. Serial No. 125,973. PUBLISHED MARCH 2, 1920.

131,587. BIRCH-BEER, ROOT-BEER, SARSAPARILLA, GINGER-ALE, SODA-WATER OF VARIOUS FLAVORS, AND CIDER. RAINIER PRODUCTS COMPANY, Seattle, Wash.
Filed June 28, 1919. Serial No. 120,070. PUBLISHED JANUARY 20, 1920.

131,588. CERTAIN NAMED TOILET PREPARATIONS. THE REMILLER COMPANY, New York, N. Y.
Filed March 21, 1919. Serial No. 116,795. PUBLISHED JANUARY 27, 1920.

131,589. MECHANICAL LUBRICATORS AND CERTAIN NAMED OILING DEVICES. THE RICHARDSON-PHENIX CO., Milwaukee, Wis.
Filed November 1, 1918. Serial No. 114,012. PUBLISHED FEBRUARY 24, 1920.

131,590. PREPARATION FOR USE IN THE TREATMENT OF PILES. ISAIAH F. RHODENBAUGH, Fort Wayne, Ind.
Filed November 12, 1919. Serial No. 124,813. PUBLISHED MARCH 2, 1920.

131,591. NON-ALCOHOLIC BEVERAGES CONSISTING OF NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SH-H! COMPANY, New York, N. Y.
Filed July 15, 1919. Serial No. 120,583. PUBLISHED DECEMBER 23, 1919.

131,592. WOVEN ELASTICS IN THE PIECE. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed October 31, 1919. Serial No. 124,420. PUBLISHED FEBRUARY 24, 1920.

131,593. LINIMENT FOR THE TREATMENT OF RHEUMATISM, NEURALGIA, SPRAINS, BRUISES, LAMENESS, AND THE LIKE. F. AD. RICHTER & CO. OF NEW YORK, New York, N. Y.
Filed January 30, 1919. Serial No. 115,540. PUBLISHED JANUARY 6, 1920.

131,594. LINIMENT FOR THE TREATMENT OF RHEUMATISM, NEURALGIA, SPRAINS, BRUISES, AND THE LIKE. F. AD. RICHTER & CO. OF NEW YORK, New York, N. Y.
Filed February 11, 1919. Serial No. 115,779. PUBLISHED JANUARY 6, 1920.

131,595. MEDICINAL PREPARATIONS—NAMELY, A VEGETABLE PREPARATION FOR CONSTIPATION, DIARRHEA, AND FEVER RESULTING FROM INDIGESTION. F. AD. RICHTER & CO., New York, N. Y.
Filed September 19, 1919. Serial No. 122,916. PUBLISHED JANUARY 27, 1920.

131,596. MEDICINAL PREPARATIONS FOR THE TREATMENT OF STAPHYLOCOCIQUE MALADIES AND FOR ERUPTIONS CAUSED BY THE SAME. JOSEPH ROBERT, Paris, France.
Filed October 24, 1917. Serial No. 106,927. PUBLISHED JANUARY 13, 1920.

131,597. TEXTILE FABRICS—NAMELY, WOOL, AND WOOL AND SILK PIECE GOODS. SOCIETE RODIER, Paris, France.
Filed October 18, 1919. Serial No. 123,940. PUBLISHED FEBRUARY 24, 1920.

131,598. ANHYDROUS SODIUM HYDROSULFITE. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed September 23, 1919. Serial No. 123,039. PUBLISHED JANUARY 6, 1920.

131,599. CHEMICAL USED FOR TANNING HIDES. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed September 23, 1919. Serial No. 123,040. PUBLISHED JANUARY 6, 1920.

131,600. SULPHOXYLATE OF SODIUM FORMALDEHYDE. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed September 23, 1919. Serial No. 123,041. PUBLISHED JANUARY 6, 1920.

131,601. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. ANNE H. RUDD, St. Louis, Mo.
Filed February 13, 1918. Serial No. 108,982. PUBLISHED SEPTEMBER 3, 1918.

131,602. GINGER-ALE. THE RYE-OLA COMPANY, Birmingham, Ala.
Filed November 20, 1918. Serial No. 114,255. PUBLISHED FEBRUARY 10, 1920.

131,603. MEDICATED SOAP. SABERTON MFG. CO., Tampa, Fla.
Filed July 17, 1919. Serial No. 120,653. PUBLISHED FEBRUARY 10, 1920.

131,604. ELECTRIC CONDUITS, LIGHTING, AND POWER FIXTURES. ARCHIBALD T. SAMPSON, Lynn, Mass.
Filed September 26, 1919. Serial No. 123,175. PUBLISHED FEBRUARY 24, 1920.

131,605. SEPTIC TANKS MADE OF REINFORCED CONCRETE. SANITARY ENGINEERING COMPANY, Charlotte, N. C.
Filed November 28, 1919. Serial No. 125,408. PUBLISHED FEBRUARY 24, 1920.

131,606. BEVERAGE MADE OF MALT AND CEREALS, AND CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL. ADAM SCHEIDT BEVERAGE COMPANY, Norristown, Pa.
Filed November 4, 1919. Serial No. 124,535. PUBLISHED JANUARY 27, 1920.

131,607. FACE-POWDERS, TALCUM POWDER, COMPACTS, LIP-SALVE, LIP-ROUGE, AND NAIL-POLISH. JULIUS SCHMID, INCORPORATED, New York, N. Y.
Filed March 22, 1917. Serial No. 102,351. PUBLISHED MARCH 2, 1920.

131,608. BEAD AND METAL BAGS, BEADED SAUTOIRES, PEARL-BEAD NECKLACES, AND NECKLACES OF ALL DESCRIPTIONS. JULES SCHWAB & Co., New York, N. Y.
Filed May 31, 1919. Serial No. 119,087. PUBLISHED FEBRUARY 24, 1920.

131,609. SIZING AND FINISHING COMPOUNDS FOR TEXTILE FABRICS AND THREADS. SEYDEL MANUFACTURING COMPANY, Jersey City, N. J.
Filed June 23, 1919. Serial No. 119,872. PUBLISHED JANUARY 20, 1920.

131,610. LAXATIVE PREPARATION. THE SENTANEL REMEDIES COMPANY, INC., Cincinnati, Ohio.
Filed November 12, 1919. Serial No. 124,815. PUBLISHED MARCH 2, 1920.

131,611. ALKALINE ANTISEPTIC SUPPOSITORIES. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,548. PUBLISHED MARCH 2, 1920.

131,612. VETERINARY MEDICINE FOR EXTERNAL APPLICATION. JOHN D. SHIELDS, Chaplin, Ky.
Filed August 18, 1919. Serial No. 121,790. PUBLISHED JANUARY 6, 1920.

131,613. FINGER-RINGS AND BROOCHES. EUGENE J. SILVERMAN, Akron, Ohio.
Filed June 19, 1919. Serial No. 119,778. PUBLISHED FEBRUARY 24, 1920.

131,614. DYES IN SOAP FORM. JULIUS S. SINGER, Chicago, Ill.
Filed August 25, 1919. Serial No. 121,997. PUBLISHED FEBRUARY 10, 1920.

131,615. LIQUID FACE-CREAM. THE SKOWDO CO., Spokane, Wash.
Filed November 12, 1919. Serial No. 124,819. PUBLISHED MARCH 2, 1920.

131,616. PREPARATION USED AS A TONIC FOR CHILLS AND FEVER. WALTER EDWARD SPEIGHT, Jacksonville, Fla.
Filed October 20, 1919. Serial No. 124,019. PUBLISHED MARCH 2, 1920.

131,617. CLEANING PREPARATION WITHOUT AMMONIA AND TO BE USED FOR CLEANING FABRICS. SALLY MARIE SPENCER, Chicago, Ill.
Filed September 18, 1919. Serial No. 122,861. PUBLISHED FEBRUARY 10, 1920.

131,618. GINGER-ALE. RICHARD M. SCHLESINGER, New Athens, Ill.
Filed October 20, 1919. Serial No. 124,018. PUBLISHED JANUARY 6, 1920.

131,619. VOILES IN THE PIECE. MAX SCHWARZ, New York, N. Y.
Filed November 17, 1919. Serial No. 125,034. PUBLISHED FEBRUARY 3, 1920.

131,620. LIVE-STOCK-DIPPING POWDER AND FLUID. THE SHEEP AND CATTLE MEN'S SUPPLY MANUFACTURING COMPANY, Cheyenne, Wyo., and Salt Lake City, Utah.
Filed September 6, 1919. Serial No. 122,407. PUBLISHED FEBRUARY 10, 1920.

131,621. COLORS FOR A COMBINATION OF USES. G. SIEGLE COMPANY, Rosebank, N. Y., assignor to G. Siegle Corporation of America, of New York, N. Y., a Corporation of New York.
Filed September 25, 1918. Serial No. 113,388. PUBLISHED JANUARY 6, 1920.

131,622. STEEL FORGINGS. SIZER FORGE COMPANY, Buffalo, N. Y.
Filed July 1, 1919. Serial No. 120,195. PUBLISHED FEBRUARY 10, 1920.

131,623. SNAP-FASTENERS. PEDRO SLIM, Mexico, Mexico.
Filed October 7, 1919. Serial No. 123,526. PUBLISHED FEBRUARY 3, 1920.

131,624. MECHANICAL RAZOR-STROPPERS. SOCIETE INDUSTRIELLE DES SPÉCIALITÉS TECHNIQUES, S. A. Emmenbrücke-Lucerne, Switzerland.
Filed July 18, 1919. Serial No. 120,682. PUBLISHED FEBRUARY 24, 1920.

131,625. CAUSTIC SODA, BENZOATE OF SODA, CHLORID OF LIME, OXALIC ACID, CARBONATE ZINC, AND CARBONATE COPPER. SOUTHERN SALES CORPORATION, New York, N. Y.
Filed September 10, 1919. Serial No. 122,560. PUBLISHED FEBRUARY 10, 1920.

131,626. COMBINED INSECTICIDE AND FUNGICIDE. STANDARD CHEMICAL WORKS, Reading, Pa.
Filed October 13, 1919. Serial No. 123,761. PUBLISHED FEBRUARY 24, 1920.

131,627. COMBINED INSECTICIDE AND FUNGICIDE. STANDARD CHEMICAL WORKS, Reading, Pa.
Filed October 13, 1919. Serial No. 123,762. PUBLISHED FEBRUARY 24, 1920.

131,628. HONEY, PEANUT-BUTTER, AND ICE-CREAM CONES. STANDARD PRODUCTS SUPPLY CO., Minneapolis, Minn.
Filed October 14, 1918. Serial No. 113,725. PUBLISHED MARCH 2, 1920.

131,629. PIPE JOINTS OR COUPLINGS MADE OF IRON, STEEL, BRASS, OR OTHER METALS. STANDARD UNION COMPANY, Augusta, Me., and Boston, Mass.
Filed January 17, 1919. Serial No. 115,267. PUBLISHED FEBRUARY 10, 1920.

131,630. AUTOMOBILE, DYNAMO, CRANK-CASE, TRANSMISSION, MACHINE, AND CYLINDER LUBRICATING OILS AND GREASES. THE STAR OIL COMPANY, Chicago, Ill.
Filed August 31, 1917. Serial No. 106,002. PUBLISHED DECEMBER 17, 1918.

131,631. MEDICINAL PREPARATION FOR THE TREATMENT OF INFLUENZA. NARM S. SUE, Modesto, Calif.
Filed September 26, 1919. Serial No. 123,183. PUBLISHED JANUARY 27, 1920.

131,632. HOG FEED. SWIFT AND COMPANY, Chicago, Ill.
Filed Sept. 25, 1919. Serial No. 123,143. PUBLISHED MARCH 2, 1920.

131,633. MALLEABLE CASTINGS. THE T. H. SYMINGTON COMPANY, New York and Rochester, N. Y.
Filed November 18, 1919. Serial No. 125,064. PUBLISHED FEBRUARY 10, 1920.

131,634. WHEAT-FLOUR. W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y.
Filed September 25, 1918. Serial No. 113,405. PUBLISHED MARCH 2, 1920.

131,635. OINTMENT FOR THE TREATMENT OF PILES AND SIMILAR COMPLAINTS. ALEXANDER THEODOROPOULOS, New York, N. Y.
Filed September 5, 1919. Serial No. 122,373. PUBLISHED FEBRUARY 10, 1920.

131,636. BOTTLED CARBONATED NON-ALCOHOLIC, NON-CEREAL MALTLESS BEVERAGE. CHARLES H. THOM, Los Angeles, Calif.
Filed September 3, 1919. Serial No. 122,270. PUBLISHED DECEMBER 9, 1919.

131,637. PREPARATION FOR DESTROYING BOLL-WEEVILS AND OTHER INSECTS. VICTORIA THOMPSON, Jacksonville, Fla.
Filed May 12, 1919. Serial No. 118,410. PUBLISHED JANUARY 13, 1920.

131,638. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. THORNTON MINERAL SPRINGS COMPANY, Thornton, Ill.
Filed August 25, 1919. Serial No. 122,002. PUBLISHED JANUARY 20, 1920.

131,639. NON-ALCOHOLIC, NON-CEREAL MALTLESS BEVERAGE AND SYRUP FOR MAKING SAME. THE THRILL EXPLOITING CO., Philadelphia, Pa.
Filed June 10, 1919. Serial No. 119,456. PUBLISHED DECEMBER 9, 1919.

131,640. HEALING-SALVE COMPOSITION FOR THE TREATMENT OF VARICOSE VEINS AND KINDRED AILMENTS. AMELIA TRAMONTIN, Dravosburg, Pa.
Filed June 4, 1919. Serial No. 119,219. PUBLISHED MARCH 2, 1920.

131,641. CONFECTION COMPRISING A LAXATIVE INGREDIENT, TOGETHER WITH SUITABLE SWEETENING AND FLAVORING MATERIALS. ROY C. TRASTER, Kansas City, Mo.
Filed June 17, 1919. Serial No. 119,720. PUBLISHED FEBRUARY 24, 1920.

131,642. SALVE USED IN THE TREATMENT OF COLDS, COUGHS, SORE THROAT, TONSILLITIS, PNEUMONIA, INFLUENZA, CROUP, CATARRH, BRONCHITIS, AND ASTHMA. JOHN T. TUCKER, Chattanooga, Tenn.
Filed April 8, 1919. Serial No. 117,284. PUBLISHED MARCH 2, 1920.

131,643. TRACTORS. THE TURNER MANUFACTURING COMPANY, Port Washington, Wis.
Filed March 28, 1918. Serial No. 109,857. PUBLISHED DECEMBER 30, 1919.

131,644. BROADCLOTH. TURNER & WALLS, New York, N. Y.
Filed November 14, 1919. Serial No. 124,921. PUBLISHED FEBRUARY 3, 1920.

131,645. TYPEWRITING-MACHINES. UNDERWOOD TYPEWRITER COMPANY, New York, N. Y.
Filed April 22, 1919. Serial No. 117,753. PUBLISHED FEBRUARY 3, 1920.

131,646. RESINS AND VOLATILE OILS FOR IMPARTING SCENT TO TOILET PREPARATIONS. UNGERER & COMPANY, INC., New York, N. Y.
Filed September 25, 1919. Serial No. 123,146. PUBLISHED JANUARY 6, 1920.

131,647. WRAPPING-PAPERS. UNION BAG & PAPER CORPORATION, Jersey City, N. J., and New York, N. Y.
Filed July 21, 1919. Serial No. 120,779. PUBLISHED FEBRUARY 24, 1920.

131,648. POCKET-CUTLERY, RAZORS, SHEARS, AND BUTCHER-KNIVES. UNION CUTLERY CO., Olean, N. Y.
Filed August 19, 1919. Serial No. 121,819. PUBLISHED JANUARY 27, 1920.

131,649. METAL FOUNDRY-FLASKS, BOTTOM BOARDS FOR FOUNDRY-FLASKS, AND CORE-PLATES. THE UNION METAL MANUFACTURING COMPANY, Canton, Ohio.
Filed July 11, 1919. Serial No. 120,468. PUBLISHED FEBRUARY 24, 1920.

131,650. OPHTHALMIC LENSES, EYEGLASSES, AND EYEGLASS-FRAMES. UNITED EYE GLASS SHOPS CORPORATION, New York, N. Y.
Filed July 3, 1919. Serial No. 120,267. PUBLISHED FEBRUARY 10, 1920.

131,651. ANILINE DYES, DYE-COLORS, AND COLOR-BASES. UNITED STATES COLOR AND CHEMICAL COMPANY, INC., Boston, Mass.
Filed February 5, 1919. Serial No. 115,651. PUBLISHED MARCH 2, 1920.

131,652. FUSEL-OIL OR AMYL ALCOHOL, DENATURED ALCOHOL, AND COLOGNE-SPIRITS. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed August 31, 1918. Serial No. 112,961. PUBLISHED DECEMBER 30, 1919.

131,653. SKIN PREPARATIONS FOR CERTAIN NAMED PURPOSES. UREGO CHEMICAL LABORATORIES, Omaha, Nebr.
Filed December 9, 1918. Serial No. 114,574. PUBLISHED FEBRUARY 3, 1920.

131,654. PREPARATION FOR TREATING EYES. USIT MANUFACTURING CO. OF AMERICA INC., Buffalo, N. Y.
Filed December 13, 1918. Serial No. 114,631. PUBLISHED MARCH 2, 1920.

131,655. ARTIFICIAL MINERAL WATER FOR USE AS AN APERIENT. VALENTIN, ORD & CO., LIMITED, Hayes, England.
Filed September 19, 1919. Serial No. 122,925. PUBLISHED JANUARY 13, 1920.

131,656. BOOK-MARKS. JEAN J. VANDERVEER, Brattleboro, Vt.
Filed September 4, 1919. Serial No. 122,321. PUBLISHED FEBRUARY 24, 1920.

131,657. BUTTER. VASOLD BROTHERS, Midland, Mich.
Filed December 8, 1919. Serial No. 125,734. PUBLISHED MARCH 2, 1920.

131,658. COLD-CREAM. THE VELVOTO COMPANY, Grand Rapids, Mich.
Filed March 1, 1919. Serial No. 116,242. PUBLISHED DECEMBER 30, 1919.

131,659. MALLEABLE-IRON CASTINGS. VERMILION MALLEABLE IRON COMPANY, Chicago, Ill.
Filed November 1, 1919. Serial No. 124,459. PUBLISHED FEBRUARY 24, 1920.

131,660. MEDICAL COMPOUND FOR TREATMENT OF TYPHOID FEVER, SCIATICA, ANEMIA, AND DISORDERS OF THE BLOOD. EZEKIEL J. VERNON, Vancouver, Canada.
Filed October 16, 1919. Serial No. 123,866. PUBLISHED MARCH 2, 1920.

131,661. HAIR-SALVE. ANDREW VIDUSECK, Bellevue, Pa.
Filed Oct. 13, 1919. Serial No. 123,766. PUBLISHED FEBRUARY 24, 1920.

131,662. DEODORANTS. VICTOR VIVAUDOU, New York, N. Y.
Filed October 25, 1919. Serial No. 124,195. PUBLISHED MARCH 2, 1920.

131,663. CERTAIN NAMED TOOLS AND MACHINERY. THE VULCAN PLOW CO., Evansville, Ind.
Filed September 20, 1919. Serial No. 122,955. PUBLISHED FEBRUARY 24, 1920.

131,664. MEDICINE USED IN THE TREATMENT OF CERTAIN NAMED DISEASES. WA-BA-VA-NES-TA MEDICINE & DRUG CO., Bay City, Mich.
Filed January 23, 1917. Serial No. 100,868. PUBLISHED MARCH 2, 1920.

131,665. WHEAT-FLOUR. WASHBURN CROSBY CO., Minneapolis, Minn.
Filed December 13, 1918. Serial No. 114,637. PUBLISHED MARCH 2, 1920.

131,666. COTTON PIECE GOODS. WATTS, STEBBINS & CO., New York, N. Y.
Filed November 22, 1919. Serial No. 125,204. PUBLISHED FEBRUARY 10, 1920.

131,667. HARD CANDIES. WEBER-SCHLITZ CANDY CO., Milwaukee, Wis.
Filed November 8, 1919. Serial No. 124,699. PUBLISHED FEBRUARY 24, 1920.

131,668. NON-INTOXICATING, MALTLESS, NON-CEREAL BEVERAGES, SOLD AS SOFT DRINKS. WHISTLE BOTTLING CO., Norfolk, Va.
Filed July 8, 1919. Serial No. 120,360. PUBLISHED DECEMBER 9, 1919.

131,669. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass.
Filed July 24, 1919. Serial No. 120,897. PUBLISHED FEBRUARY 10, 1920.

131,670. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass.
Filed July 24, 1919. Serial No. 120,899. PUBLISHED FEBRUARY 10, 1920.

131,671. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass.
Filed July 24, 1919. Serial No. 120,903. PUBLISHED FEBRUARY 10, 1920.

131,672. CANDY. WILLIAMS CHOCOLATE CO., Scranton, Pa.
Filed April 5, 1919. Serial No. 117,207. PUBLISHED MARCH 2, 1920.

131,673. PREPARATIONS FOR THE RELIEF OF CONSTIPATION AND OTHER INTESTINAL DISORDERS OF WOMEN. WALTER-WILLIAM THERAPEUTIC LABORATORIES, INC., New York, N. Y.
Filed October 13, 1919. Serial No. 123,768. PUBLISHED FEBRUARY 3, 1920.

131,674. PREPARATION FOR THE TREATMENT OF DYSMENORRHEA AND ASSOCIATED DISEASES OF THE FEMALE GENERATIVE ORGANS. WALTER-WILLIAM THERAPEUTIC LABORATORIES, INC., New York, N. Y.
Filed October 20, 1919. Serial No. 124,034. PUBLISHED FEBRUARY 3, 1920.

131,675. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGE AND SYRUP FOR MAKING THE SAME. ROSIER BUNYAN WINGATE, Dallas, Tex.
Filed August 25, 1919. Serial No. 122,003. PUBLISHED FEBRUARY 10, 1920.

131,676. CONDENSERS. WIRELESS SPECIALTY APPARATUS COMPANY, New York, N. Y., and Boston, Mass.
Filed October 8, 1919. Serial No. 123,565. PUBLISHED FEBRUARY 24, 1920.

131,677. MEDICINE FOR USE IN THE TREATMENT OF CERTAIN NAMED DISEASES. LEO MIKE WOLF, Crawfordsville, Ind.
Filed October 11, 1919. Serial No. 123,720. PUBLISHED FEBRUARY 24, 1920.

131,678. GAS-PUMPS EMPLOYING POISONOUS GASES FOR KILLING AND DESTROYING GOPHERS AND OTHER SMALL ANIMALS. WILL R. WOODRUFF, Stanton, Nebr.
Filed September 15, 1919. Serial No. 122,741. PUBLISHED FEBRUARY 24, 1920.

131,679. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. WORLD BOTTLING CO., LTD., New Orleans, La.
Filed August 11, 1919. Serial No. 121,551. PUBLISHED DECEMBER 9, 1919.

131,680. WRAPPING-PAPER. THE YORK HAVEN PAPER COMPANY, Philadelphia, Pa.
Filed December 8, 1917. Serial No. 107,848. PUBLISHED FEBRUARY 24, 1920.

131,681. TOILET CREAM, FACE-POWDER, TALCUM POWDER, AND TOOTH-POWDER. FREDERICK H. YOUNG, Toledo, Ohio.
Filed September 16, 1919. Serial No. 122,799. PUBLISHED JANUARY 13, 1920.

131,682. TOILET CREAMS, FACE-POWDER, TALCUM POWDER, AND TOOTH-POWDER. FREDERICK H. YOUNG, Toledo, Ohio.
Filed September 16, 1919. Serial No. 122,800. PUBLISHED JANUARY 13, 1920.

131,683. SALVE USED IN THE TREATMENT OF SORES, BURNS, &c. PAUL ZATYKO, Divernon, Ill.
Filed January 18, 1919. Serial No. 115,306. PUBLISHED JANUARY 27, 1920.

131,684. LIQUID VEGETABLE LAXATIVE OF PRUNES AND SENNA WITH CARMINATIVES AND AROMATICS. PERCIVAL B. ZEVELY, Pittsburgh, Pa.
Filed August 22, 1919. Serial No. 121,915. PUBLISHED JANUARY 27, 1920.

TRADE-MARK REGISTRATIONS RENEWED.

MAY 18, 1920.

16,531. PERFUMES, PERFUMED WATERS, AND BAY-RUM, ALSO SOAPS, POWDERS, AND COSMETICS. JOHN WANAMAKER, Philadelphia, Pa.; John Wanamaker, Philadelphia, assignee.
Registered April 23, 1889. Renewed April 23, 1919.

16,545. LIQUID AND POWDERED PERFUMERIES AND SOAPS. JOHN WANAMAKER, Philadelphia, Pa.; John Wanamaker, Philadelphia, assignee.
Registered April 30, 1889. Renewed April 30, 1919.

17,391. SOAP. BENJAMIN BROOKE & COMPANY, Philadelphia, Pa.; Lever Brothers Company, Cambridge, Mass., assignee.
Registered January 14, 1890. Renewed January 14, 1920.

17,540. SCOURING-SOAP. BENJAMIN BROOKE & COMPANY, Philadelphia, Pa.; Lever Brothers Company, Cambridge, Mass., assignee.
Registered February 18, 1890. Renewed February, 18, 1920.

17,621. FARINACEOUS FOOD. J. R. NEAVE & CO., (Josiah R. Neave & Co.,) Fordingbridge, county of Hants, England.
Registered March 4, 1890. Renewed March 4, 1920.

17,681. UNCUT LEATHER AND LEATHER WORKED UP INTO FOOT-WEAR. PFISTER & VOGEL LEATHER COMPANY, Milwaukee, Wis.
Registered March 18, 1890. Renewed March 18, 1920.

17,700. BUTCHERS' KNIVES AND STEEL IMPLEMENTS. CATTARAUGUS CUTLERY COMPANY, Little Valley, N. Y.
Registered March 25, 1890. Renewed March 25, 1920.

17,713. LIQUID GLUE AND MUCILAGE. RUSSIA CEMENT COMPANY, Gloucester, Mass.
Registered March 25, 1890. Renewed March 25, 1920.

17,728. COFFEE AND TEA POTS. WILLIAM H. SILVER, New York.; Silver & Co., assignee.
Registered April 1, 1890. Renewed April 1, 1920.

17,777. LAUNDRY BLUE. THE HELLER & MERZ COMPANY, New York, N. Y.; The Heller & Merz Company, Newark, N. J.
Registered April 15, 1890. Renewed April 15, 1920.

17,813. MEDICINE FOR THE CURE OF FISTULA. LOUIS URSEM, Chicago, Ill.
Registered April 22, 1890. Renewed April 22, 1920.

18,032. NEWSPAPERS. PHELPS PUBLISHING COMPANY, Springfield, Mass.
Registered June 17, 1890. Renewed June 17, 1920.

18,101. DOUBLE-STOCK SCREW-BEZEL WATCH-CASES. AMERICAN WALTHAM WATCH COMPANY, Waltham, Mass.; Waltham Watch Company, assignee.
Registered July 1, 1890. Renewed July 1, 1920.

18,148. CATSUP. CURTICE BROTHERS COMPANY, Rochester, N. Y., and Boston, Mass.
Registered July 8, 1890. Renewed July 8, 1920.

18,300. PIANOS. LINDEMAN & SONS PIANO COMPANY, New York, N. Y.
Registered August 12, 1890. Renewed August 12, 1920.

18,539. PAINTS, DRIERS, WHITE LEAD, STOVE-POLISH, STOVE, FURNACE, AND ROOFING CEMENT. WILLIAM CONNORS, Troy, N. Y.; The Wm. Connors Paint M'f'g. Co., assignee.
Registered October 21, 1890. Renewed October 21, 1920.

LABELS

REGISTERED MAY 18, 1920.

21,869.—*Title:* "SOAP BABY." (For Soap.) THE PENNSYLVANIA SOAP COMPANY, Lancaster, Pa. Filed December 6, 1916.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BROWN *v.* TOMLINSON.

Decided April 5, 1920.

PATENTS—INTERFERENCE—RIGHTS TO MAKE CLAIMS.

Record reviewed and *Held* that appellee, Brown, has failed to overcome the burden imposed by concurrent decisions of the Patent Office tribunals holding that Tomlinson had a right to make the claims in issue, and the decision of the Commissioner of Patents therefore affirmed.

Mr. H. A. Coombs and *Mr. E. A. Wright* for the appellant.

Mr. Frank T. Brown, Mr. C. M. Nissen, and *Mr. Wm. M. Cady* for the appellee.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office awarding priority of invention to the senior party Tomlinson. The second of the two claims of the issue is here reproduced:

2. In an electric train coupling, the combination with a casing containing a plurality of fixed contacts adapted to be connected to train line circuits and a longitudinally movable contact slide having corresponding contacts, of fluid pressure operated means for projecting said slide to electrically connect the fixed contacts of counterpart couplings, and a manually operated element for controlling the supply of fluid to said means.

Upon the declaration of interference Brown filed a motion for its dissolution, on the ground that Tomlinson has no right to make the claims of the issue. The question was elaborately reviewed by the Law Examiner, who found in favor of Tomlinson. Thereupon the Examiner of Interferences awarded priority on the record to Tomlinson. Brown having failed to show cause why that should not be done. On appeal to the Examiners-in-Chief, the question of Tomlinson's right to make the claims was again reviewed and that right sustained. The question was again raised and considered by the Assistant Commissioner, with the same result. In such circumstances, manifest error must be made to appear to warrant this court in disturbing the decision of the Patent Office. (*Livingston* v. *Thompson*, 45 App. D. C., 522; *Hathaway & Lea* v. *Colman*, 46 App. D. C., 49.) Appellant has not met this requirement. We agree with the Patent Office that Brown, in whose application these claims originated, is now seeking to read into them unwarranted limitations; in other words, that the invention covered by the claims is disclosed in both applications. The decision therefore is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

DOYLE AND HEDLEY *v.* TOMLINSON.

Decided April 5, 1920.

PATENTS—INTERFERENCE—RIGHT TO MAKE CLAIMS.

Record reviewed and *Held* that Tomlinson has a right to make the claims of the issue.

Mr. H. A. Coombs, Mr. W. M. Cady, and *Mr. E. A. Wright* for the appellants.

Mr. C. M. Nissen, Mr. Frank T. Brown, and *Mr. Alpheus Crane* for the appellee.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office awarding priority of invention to the senior party Tomlinson. We reproduce the second of the two claims of the issue:

2. In a coupling for electric train line circuits, the combination of a casing, fixed contact fingers mounted therein and connected to the respective circuits, a movable contact carrier normally held out of operative position, and a fluid pressure mechanism for shifting said contact carrier to its operative position to establish electrical connection between said fixed contacts and the corresponding fixed contacts of an adjacent car.

Upon the declaration of the interference appellants filed a motion for its dissolution, on the ground that Tomlinson has no right to make the claims of the issue. The question was elaborately reviewed by the Law Examiner, who found in favor of Tomlinson. Thereupon the Examiner of Interferences awarded priority on the record to Tomlinson, appellants having failed to show cause why that should not be done. On appeal to the Examiners-in-Chief, the question of Tomlinson's right to make the claims was again reviewed and that right sustained. The question was again raised and considered by the Assistant Commissioner, with the same result.

For the reasons announced in the preceding case (*Brown* v. *Tomlinson*, No. 1,254) we affirm the decision of the Patent Office.

Affirmed.

Supreme Court of the United States.

BECKWITH *v.* COMMISSIONER OF PATENTS.

Decided April 19, 1920.

1. TRADE-MARKS—ACT OF 1905, SECTION 5 CONSTRUED—MARKS MERELY DESCRIPTIVE.

In the Trade-Mark Act of 1905, (33 Stat., 724,) the proviso of section 5 that "no mark which consists * * * merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods * * * shall be registered" is simply an expression in statutory form

of the prior general rule of law that words merely descriptive are not a proper subject for exclusive trade-mark appropriation.

2. SAME—SAME.

The requirement of the act of 1905, section 5, that "no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark unless, etc." is just as imperative as the prohibition of the proviso against registration in cases specified.

3. SAME—REGISTRATION—LIBERAL ATTITUDE SHOULD BE ADOPTED.

"Of course, refusal to register a mark does not prevent a former user from continuing its use, but it deprives him of the benefits of the statute, and this should not be done if it can be avoided by fair, even liberal, construction of the act, designed as it is to promote the domestic and foreign trade of our country."

4. SAME—COMPOSITE MARKS CONTAINING DESCRIPTIVE TERMS—REGISTRATION NOT PROHIBITED.

A composite mark including arbitrary matter and a descriptive term forming a definitely-positioned part of the mark does not fall within the terms of the statute, since such a mark does not consist merely ("only") of descriptive words.

5. SAME—SAME—REQUIREMENT TO DELETE DESCRIPTIVE WORDS IMPROPER.

The requirement that descriptive words constituting part of a composite mark be deleted as a prerequisite to registration *Held* improper, since such deletion would often result in so changing the mark sought to be registered from the form in which it had been used in actual trade that it would not be recognized as the same mark.

6. SAME—SAME—PRACTICE OF ALLOWING DISCLAIMERS APPROVED.

"While there is no specific provision for disclaimers in the trade-mark statute, the practice of using them is commended to our judgment by the statement of the Commissioner of Patents that, so far as known, no harm came to the public from the practice of distinguishing, without deleting, non-registrable matter in the drawing of the mark as registered, when a statement, forming a part of the record, was required that the applicant was not making claim to an exclusive appropriation of such matter except in the precise relation and association in which it appeared in the drawing and description."

7. SAME—"MOISTAIR HEATING SYSTEM"—DESCRIPTIVE.

The words "Moistair Heating System" applied to "hot air and combined hot air and hot water heaters and furnaces" are merely descriptive of a claimed property or quality of applicant's heating system, that by it moisture is imparted to the air in the process of heating.

8. SAME—SAME—COMPOSITE MARK—REGISTRATION.

A trade-mark for heating systems consisting of certain arbitrary matter and the descriptive words "Moistair Heating System" *Held* registrable if an appropriate disclaimer of the descriptive words be made by the applicant.

ON WRIT of certiorari to the Court of Appeals of the District of Columbia.

Mr. Harry C. Howard for the petitioner.

Assistant Attorney-General Davis and *Mr. Edward G. Curtis* for the Commissioner of Patents.

Mr. Justice CLARKE delivered the opinion of the Court.

The petitioner, a corporation, filed an application in the Patent Office for the registration of a trade-mark, which is described as follows:

A design like a seal, comprising the head of an Indian chief surmounting a scroll bearing his name, "Doe-Wah-Jack" and surrounded by a circle, outside of which appeared the words "Round Oak" and "Moistair Heating System" in a circle, and the whole being surrounded by a wreath of oak leaves.

It will be useful to reproduce the drawing filed with this application:



It was averred that the petitioner had used the mark for more than eighteen months before the application was made by applying it to—

hot air and combined hot air and hot water heaters and furnaces by having the same cast into the metals of which the systems were constructed.

The Commissioner found that the mark did not conflict with any other that was registered, and that the petitioner was entitled to the exclusive use of it excepting the words "Moistair Heating System." It was ordered that the mark might be registered if the excepted words, objectionable because descriptive, were "erased" or "removed" from it, but that the filing of a disclaimer would not suffice to secure registration.

Not satisfied with this result, the petitioner appealed to the Court of Appeals of the District of Columbia, and its judgment affirming the decision of the Commissioner of Patents is before us for review.

The ground of both decisions is that the words "Moistair Heating System" are merely descriptive of a claimed merit of the petitioner's system—that in the process of heating, moisture is added to the air—and that one person may not lawfully monopolize the use of words in general use which might be used with equal truthfulness to describe another system of heating. For this reason it was held that the case falls within the proviso of the registration act of 1905, declaring that no mark consisting merely in words or devices which are descriptive of the goods with which they are used or of the character or quality of such goods shall be registered under the terms of the act. (Act of Feb. 20, 1905, sec. 5, 33 Stat., 725; amended Jan. 8, 1913, 37 Stat., 649.)

No question of patent right or of unfair competition, or that the design of the trade-mark is so simple as to be a mere device or contrivance to evade the law and secure the registration of non-registrable words, is involved. (*Nairn Linoleum Co.* v. *Ringwalt Linoleum Works*, 46 App. D. C., 64, 69; 237 O. G., 919.)

This statement makes it apparent that the question presented for decision is: Whether the applicant may lawfully register the words "Moistair Heating System" when combined with the words "Round Oak," as a part of its purely fanciful and

arbitrary trade-mark design, as shown in the drawing filed, and when claim to exclusive use of the words apart from the mark shown in the drawing is disclaimed on the record?

An account of the process of decision, in the Patent Office and in the court of appeals, by which the result in this case was arrived at, as it appears in the brief of the Commissioner of Patents is suggestive and useful. From this we learn that when a mark has been presented for registration consisting merely (only) of descriptive words or devices, registration has been uniformly refused. When "composite" marks—such as contain both registrable and non-registrable matter—have been presented for registry with features in them which conflicted with earlier marks, registered by other than the applicant, the complete rejection, "eradication," of the conflicting portions has been uniformly required before registry was allowed. But where there was no such conflict, and the only objection was that descriptive words were used, the practice of the Patent Office prior to the decision, in 1909, of *Johnson* v. *Brandau* (32 App. D. C., 348; 139 O. G., 732) was to permit the registration of marks containing such words, where they were associated with registrable words or were a part of an arbitrary or fanciful design or device, it being considered not necessary to delete the descriptive matter, even when it was an essential part of the composite trade-mark as it had been used by the applicant, provided it was clearly not susceptible of exclusive appropriation under the general rules of law. After the decision of *Johnson* v. *Brandau* (32 App. D. C., 348) a practice grew up in the Patent Office, not provided for in the statute, of allowing an applicant to disclaim objectionable descriptive words in cases where to require their actual removal would result in so changing the mark that it would not readily be recognized as that shown in the drawing or specimen filed with the application. The customary form of such disclaimer was a statement filed that no claim was made to the designated words, as for example, "Moistair Heating System," apart from the mark shown in the drawing—this was interpreted as meaning that only when taken in connection with the remaining features of the mark did the applicant make claim to their exclusive use. (*Ex parte The Illinois Seed Co.*, 219 O. G., 931.)

Such disclaimer became a part of the applicant's statement in the record and necessarily formed a part of the certificate of registration as it would appear in the copies of it furnished to the applicant and the public, pursuant to section 11 of the act.

Then came the decisions in *Fishbeck Soap Co.* v. *Kleeno Manufacturing Co.* (44 App. D. C., 6; 216 O. G., 663) and *Nairn Linoleum Co.* v. *Ringwalt Linoleum Works* (46 App. D. C., 64; 237 O. G., 1919) which, says the Commissioner of Patents, were understood as disapproving the practice of disclaimer, and since they were rendered, registration of merely descriptive matter has not been allowed in any form, but its actual deletion from the trade-mark drawing has been required,—with, however, an apparent exception in the case of *Rinsburger*, (8 T. M. Reps., 567; 128 MS. Dec., 141.) The judgment we are considering requiring, as it does, the "elimination" of the descriptive words, shows that the Commissioner correctly interpreted these two decisions of the court of appeals.

It is apparent from this rehearsal that the Commissioner of Patents has promptly and cordially accepted for his guidance the decisions of the court of appeals and, although he avoids a controversial attitude in his brief and gives a colorless history of the practice of his Office, still it is manifest that, in this case and in others, the court has very radically changed that practice with respect to permitting registry of composite trade-marks and that its decisions have turned upon the construction of the second proviso, referred to, in the fifth section of the registration act, which is made the basis of the judgment we are reviewing.

The registration act of 1905, (33 Stat., 724,) amended in 1906 (34 Stat., 168) and in 1909 (35 Stat., 627) and in 1913 (37 Stat., 649,) without changing the substantive law of trade-marks, provided, in the manner prescribed, for the registration of marks, (subject to special exceptions) which, without the statute, would be entitled to legal and equitable protection, and the case before us calls chiefly for the construction of the provisions of section 5 of that act, which, so far as here involved are as follows:

No mark by which the goods of the owner of the mark may be distinguished from other goods of the same class *shall be refused registration* as a trade-mark on account of the nature of such mark unless, etc. * * *

Provided, that *no mark which consists* * * * merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods * * * *shall be registered* under the terms of this act.

It was settled long prior to the Trade-Mark Registration Act that the law would not secure to any person the exclusive use of a trade-mark consisting merely of words descriptive of the qualities, ingredients or characteristics of an article of trade. This for the reason that the function of a trade-mark is to point distinctively, either by its own meaning or by association, to the origin or ownership of the wares to which it is applied, and words merely descriptive of qualities, ingredients or characteristics, when used alone, do not do this. Other like goods, equal to them in all respects, may be manufactured or dealt in by others, who, with equal truth, may use, and must be left free to use, the same language of description in placing their goods before the public. (*Canal Company* v. *Clark*, 13 Wall., 311, 322, 323, 324; *Manufacturing Company* v. *Trainer*, 101 U. S., 51, 54; *Manhattan Medicine Co.* v. *Wood*, 108 U. S., 218, 222; *Goodyear's India Rubber Glove Mfg. Co.* v. *Goodyear Rubber Co.*, 128 U. S., 598; *Lawrence Manufacturing Co.* v. *Tennessee Manufacturing Co.*, 138 U. S., 537, 547; *Brown Chemical Co.* v. *Myer*, 139 U. S., 540; *Elgin National Watch Co.* v. *Illinois Watch Case Co.*, 179 U. S., 665; *Standard Paint Co.*, v. *Trinidad Asphalt Mfg. Co.*, 220 U. S., 446.)

Thus the proviso quoted, being simply an expression in statutory form of the prior general rule of law that words merely descriptive are not a proper subject for exclusive trade-mark appropriation, if the application in this case had been to register only the words "Moistair Heating System" plainly it would have fallen within the terms of the prohibition, for they are merely descriptive of a claimed property or quality of the petitioner's heating system,—that by it moisture is imparted to the air in the process of heating. But the application was not to register these descriptive words "merely," alone and apart from the mark shown in the drawing, but in a described manner of association with other words, "Round Oak," which are not descriptive of any quality of applicant's heating system, and as a definitely positioned part of an entirely fanciful and arbitrary design or seal, to which the Commissioner found the applicant had the exclusive right.

Since the proviso prohibits the registration not of merely descriptive words but of a "trade-mark which consists * * * merely" (only), of such words—the distinction is substantial and plain—we think it sufficiently clear that such a composite mark as we have here does not fall within its terms. In this connection it must be noted that the requirement of the statute that no trade-mark shall be refused registration, except in designated cases, is just as imperative as the prohibition of the proviso against registration in cases specified.

While there is no specific provision for disclaimers in the trade-mark statute, the practice of using them is commended to our judgment by the statement of the Commissioner of Patents that, so far as known, no harm came to the public from the practice of distinguishing, without deleting, non-registrable matter in the drawing of the mark as registered, when a statement, forming a part of the record, was required that the applicant was not making claim to an exclusive appropriation of such matter except in the precise relation and association in which it appeared in the drawing and description.

It seems obvious that no one could be deceived as to the scope of such a mark, and that the registrant would be precluded by his disclaimer from setting up in the future any exclusive right to the disclaimed part of it. It seems obvious also that to require the deletion of descriptive words must result often in so changing the trade-mark sought to be registered from the form in which it had been used in actual trade that it would not be recognized as the same mark as that shown in the drawing, which the statute requires to be filed with the application, or in the specimens produced as actually used, and therefore registration would lose much, if not all, of its value. The required omission might so change the mark that in an infringement suit it could be successfully urged that the registered mark had not been used,—and user is the foundation of registry (sec. 2). Of this last the case before us furnishes an excellent example. To strike out "Moistair Heating System" from the applicant's trade-mark would so change its appearance that its value must be largely lost as designating to prior purchasers or users the origin of the heating system to which it was applied.

The commercial impression of a trade-mark is derived from it as a whole, not from its elements separated and considered in detail. For this reason it should be considered in its entirety (*Johnson* v. *Brandau, supra*) and to strike out any considerable part of it, certainly any conspicuous part of it, would be to greatly affect its value. Of course, refusal to register a mark does not prevent a former user from continuing its use, but it deprives him of the benefits of the statute, and this should not be done if it can be avoided by fair, even liberal, construction of the act, designed as it is to promote the domestic and foreign trade of our country.

Thus the case comes to this: that the Commissioner found that the trade-mark presented for registration did not conflict with any theretofore registered and there is no suggestion of unfair practice in the past or contemplated in the future; that it had been used for eighteen months in the form proposed for registry; that the words ordered to be stricken out from the drawing are descriptive but the mark does not consist "merely" in such words, but is a composite of them with others, and with an arbitrary design which, without these words, both the Commissioner and the court found to be registrable; that the language of the statute that no mark not within its prohibitions or provisos shall be denied registration is just as imperative as the prohibitory words of the proviso; and, very certainly, that a disclaimer on the part of applicant that no claim is made to the use of the words "Moistair Heating System" apart from the mark as shown in the drawing and as described, would preserve to all others the right to use these words in the future to truthfully describe a like property or result of another system, provided only that they be not used in a trade-mark which so nearly resembles that of the petitioner—

as to be likely to cause confusion in the mind of the public or to deceive purchasers—

when applied—

to merchandise of the same descriptive properties (sec. 5).

Such being the ultimate facts of this controversy, we cannot doubt that the court of appeals fell into error in ruling that the words "Moistair Heating System" must be "eliminated" from the trade-mark of the applicant as it had been theretofore used, and that the requirement of the act of Congress for the registration of trade-marks would be fully complied with if registration of it were permitted with an appropriate declaration on the part of the applicant that no claim is made to the right to the exclusive use of the descriptive words except in the setting and relation in which they appear in the drawing, description and samples of the trade-mark filed with the application.

It results that the judgment of the court of appeals must be reversed.

Mr. Justice McREYNOLDS dissents.

ADJUDICATED PATENTS.

(U. S. C. C. A. Pa.) The Courson patent, No. 732,521, for friction draft-gear for railroad-cars, *Held* not infringed. *Courson* v. *Westinghouse Air Brake Co.*, 263 Fed. Rep., 89.

(U. S. C. C. A. Oreg.) The Stafford patent No. 860,418, for a process of effecting combustion of crude petroleum, *Held* not infringed. *Stafford* v. *Albers Bros. Milling Co.*, 263 Fed. Rep., 86.

(U. S. D. C. N. J.) The Rohm patent, No. 886,411, for a process for bating hides, *Held* invalid because not disclosing any method of using the bate other than generally employed in the prior art. *Rohm et al.* v. *Martin Dennis Co.*, 263 Fed. Rep., 106.

(U. S. C. C. A. Pa.) The Courson patent, No. 1,180,979, for friction draft-gear for railroad-cars, *Held* valid and infringed. *Courson* v. *Westinghouse Air Brake Co.*, 263 Fed. Rep., 89.

(U. S. D. C. N. Y.) The Stonemetz patent No. 1,188,507, for a printing-press, *Held* not invalid for inoperability. *Keystone Type Foundry* v. *Fastpress Co.*, 263 Fed. Rep., 99.

(U. S. C. C. A. Pa.) The Vandenburgh reissue patent, No. 14,182, for reinforcing-bars for use in concrete work, claim 3 *Held* limited by the prior art and as so limited not infringed, and claims 1 and 2 *Held* invalid as not warranted by the original patent. *Vandenburgh* v. *Electric Welding Co.*, 263 Fed. Rep., 95.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 11, 1920.

Robert W. Willits, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Northwestern Chemical Co., of State street, Marietta, Ohio, for registration of a trade-mark and trade-mark registered January 5, 1909, No. 72,210, to Robert W. Willits, of Alexis, Ill., and a notice of such declaration sent by registered mail to said Robert W. Willits at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Robert W. Willits, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 12, 1920.

H. A. Kespohl & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of William G. Dean and Son, of 203 Pearl street, New York, N. Y.; L. H. Kassel & Co., corner Main and Fourth streets, Fort Worth, Tex., and The International Company, corner of Exchange Place and Commerce street, Baltimore, Md., for registration of a trade-mark and trade-mark registered November 24, 1896, No. 29,200, to H. A. Kespohl & Co., of Quincy, Ill., and a notice of such declaration sent by registered mail to said H. A. Kespohl & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. A. Kespohl & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Changes in Classification.

(ORDER No. 2,567.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 21, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 12, Boot and Shoe Making, (Division XI,) establish the following subclass and definition:

79.5. **Waxing and polishing.**

79.5. WAXING AND POLISHING. Machines for applying wax to parts of boots and shoes, generally the edge of the sole or heel, and polishing such parts.

The patents contained in this subclass have been taken for the most part from class 51, Grinding and Polishing, subclass 17, Boots and shoes, hereinafter abolished.

In class 132, Toilet, (Division XXXV,) establish subclass—

37. **Manicuring devices.**

The patents contained in this subclass have been taken for the most part from class 51, Grinding and Polishing, subclass 19, Abrading materials and tools, Manicuring, hereinafter abolished.

In class 51, Grinding and Polishing, (Division XXVII,) change the title of the class to read *Class 51, Abrading*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

51.—ABRADING.

1. **Miscellaneous.**
2. **Machines—**
3. Combined—
4. Scouring and polishing.
5. With non-abrading operations.
6. Graining-boxes.
7. Immersion.
8. Sand-blast—
9. Mechanical.
10. File cleaning and resharpening.
11. Nozzles.
12. Supply tanks and valves.
13. Tumbling-barrels.
14. Moving work-holder—
15. Rotary.
16. Scouring devices—
17. Immersion—
18. Roller work-feed.
19. Rotary work-holder.
20. Winding-drum.
21. Reciprocating tool.
22. Rotary cylinder—
23. Opposed.

51.—ABRADING—Continued.

Machines—

Scouring devices—

24. Rotary disk—
25. Opposed.
26. Without tool—
27. Valve and seat—
28. Plug-cock.
29. Puppet-valve.
30. Slide-valve.
31. Rotary reciprocating tool—
32. Peripheral face—
33. Oscillating.
34. Rectilinear—
35. Compound.
36. Harvester-knife sharpeners.
37. One-way cut.
38. One-way work-traverse—
39. Roller work-feed.
40. Opposed—
41. Reciprocating work-holder.
42. Work rotating.
43. Planetary.

51.—ABRADING—Continued.

Machines—

Rotary reciprocating tool—

Peripheral face—

Rectilinear—

44. Reciprocating work-holder—
45. Rectilinear.
46. Rocking.
47. Swinging tool-carrier.
48. Work rotating—
49. Roll-grinders.
50. Rotary work-holder—
51. Disk and wheel grinders.
52. Gear-grinders.
53. Turret.
54. Radial face—
55. Oscillating.
56. Rectilinear.
57. Reciprocating tool—
58. Oscillating.
59. Rectilinear—
60. Compound.

51.—**ABRADING**—Continued.
Machines—
Reciprocating tool—
Rectilinear—
61. Endless work-carrier.
62. Flexible—
63. Stropping-machines,
64. Reciprocating work-holder—
65. Rocking.
66. Roller work-feed.
67. Rotary work-holder.
68. Swinging tool-carrier—
69. Actuating-handle.
70. Winding-drum.
71. Rotary tool—
72. Peripheral face—
73. Internal.
74. One-way work-traverse—
75. Drawing-reel.
76. Endless work-carrier.
77. Nut and screw.
78. Roller work-feed—
79. Work rotating.
80. Opposed—
81. Alternating tool.
82. Plunger-feed.
83. Reciprocating work-holder—
84. Rectilinear—
85. Rocking.
86. Rocking.
87. Roller work-feed.
88. Work rotating—
89. Rotary work-holder.
90. Planetary—
91. Reciprocating work-holder—
92. Rectilinear—
93. Compound.
94. Rocking.
95. Work rotating.
96. Rocking—
97. Work rotating.
98. Stationary work-holder.
99. Swinging tool-carrier.
100. Templet—
101. Rotary.
102. Work-guide.
103. Work rotating—
104. Disk and wheel grinders.
105. Rotary work-holder—
106. Disk and wheel grinders.
107. Glassware-ornamenting.
108. Turret.
109. Radial face—
110. One-way work-traverse.
111. Opposed—
112. One-way work-traverse.
113. Reciprocating work-holder—
114. Rectilinear.
115. Rocking.
116. Work-guide.
117. Work-rotating—
118. Rotary work-holder.
119. Orbital—
120. Planetary.
121. Reciprocating work-holder—
122. Rectilinear.
123. Work rotating.
124. Rocking.
125. Stationary work-holder.
126. Swinging tool-carrier.

51.—**ABRADING**—Continued.
Machines—
Rotary tool—
Radial face—
127. Templet.
128. Work-guide.
129. Work rotating—
130. Raceway.
131. Rotary work-holder—
132. Disk and wheel grinders.
133. Planetary.
134. Turret.
135. Traveling band—
136. Chain.
137. One-way work-traverse—
138. Endless work-carrier.
139. Roller work-feed.
140. Opposed.
141. Pressers and formers.
142. Reciprocating-band carrier.
143. Reciprocating work-holder—
144. Work rotating.
145. Rotary work-holder.
146. Superposed.
147. Swinging band-carrier.
148. Tension devices.
149. Stationary tool—
150. Flexible—
151. Reciprocating work-holder—
152. Needle-eye polishers.
153. Stropping-machines.
154. Work rotating—
155. Stropping-machines.
156. Rigid—
157. Reciprocating work-holder—
158. Blade-sharpeners—
159. Blade-reversing.
160. Lens-grinders.
161. Rotary work-holder—
162. Lens-grinders.
163. Tumbling devices—
164. Drum.
165. Precision devices.
166. **Frames and mounts**—
167. Double treadle.
168. Hanging grindstones—
169. Balancing.
170. Portable—
171. Button-cleaners.
172. Calk-sharpeners.
173. Edge-tool sharpeners.
174. Floor-surfacing machines—
175. Reciprocating tool.
176. Rotary cylinder.
177. Rotary disk.
178. Rail-grinders.
179. Roll and wheel grinders.
180. Wall-surfacing machines.
181. **Tools, combined.**
182. **Tools, scouring devices**—
183. Rubbers—
184. Pivoted.
185. **Tools, flexible**—
186. Actuating-handle—
187. Sheet-holders.
188. Endless band.
189. Reciprocating block.
190. Rotary cylinder—
191. Centrifugal.
192. Inflation.
193. Laminated.
194. Sheet-holders.
195. Rotary disk—
196. Inflation.
197. Sheet-holders.
198. Strops—
199. Inflation.

51.—**ABRADING**—Continued.
Tools, flexible—
Strops—
200. Suspension—
201. Attaching devices.
202. Reel.
203. Tension.
204. **Tools, rigid**—
205. Actuating-handle.
206. Rotary cylinder—
207. Laminated.
208. Work-guide.
209. Rotary disk—
210. Work-guide.
211. Stationary—
212. Metal.
213. Oilers and moisteners.
214. Work-guide.
215. **Work-feeders.**
216. **Work-holders**—
217. Clamp—
218. Edge-tool—
219. Drill.
220. Gaging devices—
221. Portable.
222. Harvester-knife—
223. Suspension.
224. Reciprocating.
225. Rotary cutter.
226. Seat-controlled.
227. Hollow work.
228. Skate.
229. Dops and sticks.
230. Reciprocating—
231. Rectilinear—
232. Work rotating.
233. Fluid-pressure actuated.
234. Rocking.
235. Vacuum.
236. Work rotating—
237. Rotary work-holder.
238. **Work-rests**—
239. Gaging devices.
240. **Work-tables.**
241. **Attachments**—
242. Card-grinders—
243. Flats.
244. Commutator-grinders.
245. Internal grinders.
246. Machine-knife sharpeners—
247. Rotary tool—
248. Work-actuated.
249. Rotary reciprocating tool.
250. Stationary tool.
251. Roll and wheel grinders—
252. Reciprocating tool—
253. Nut and screw.
254. Rotary reciprocating tool.
255. Stationary tool.
256. Sewing-machine—
257. Flywheel.
258. Vehicle.
259. Lathe—
260. Center-grinders.
261. Internal grinders.
262. **Accessories**—
263. Abradant-supplying—
264. Graders.
265. Button-cleaning shields.
266. Cooling—
267. Wetting grindstones.
268. Guards and housings—
269. Breakage-guards.
270. Collectors.
271. Drive-shields.
272. Spark and splash guards.
273. Suction.
274. Work-guards.
275. Sheet-applying devices.
276. Strop-surface renewing.
277. Work-mounting devices.
278. **Processes.**
279. **Materials**—
280. Compositions.

J. T. NEWTON, *Commissioner.*

Changes in Classification.

(ORDER No. 2,568.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 22, 1920.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 103, Pumps, (Division IX,) abolish subclass—

35. Windlass water-elevator.

The patents formerly contained in this subclass have been placed for the most part in class 214, Material or Article Handling, subclasses 117, Elevator or hoist type, Bucket, Valved, and 118, Elevator or hoist type, Bucket, Valved, Chute movable into shaft, and class 294, Handling—Hand and Hoist-Line Implements, subclasses 68, Hoisting-bucket type, and 69, Hoisting-bucket type, Bucket or side discharge.

J. T. NEWTON,
Commissioner.

Patents Nos. 1,340,868 to 1,341,626.

THE OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 274—No. 4. TUESDAY, MAY 25, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF MAY 25, 1920	619
NOTICE	619
INTERFERENCE NOTICES	619
AMENDMENTS TO AMENDMENTS	619
ASSISTANT EXAMINERS WANTED	619
APPLICATIONS UNDER EXAMINATION	620
PATENTS GRANTED	621
REISSUES	767
DESIGNS	769
TRADE-MARKS—REGISTRATION APPLIED FOR	791
TRADE-MARK REGISTRATIONS GRANTED	829
LABELS	837
COMMISSIONER'S DECISIONS—	
Antoine and Travis v. Grover and Barber	839
Ex parte Moore and Pack	840
DECISIONS OF THE U. S. COURTS—	
Grover and Barber v. Antoine and Travis	841
In re Moore and Pack	842
ADJUDICATED PATENTS	842

Issue of May 25, 1920.

Patents	759	No. 1,340,868	to No. 1,341,626,	inclusive.
Designs	126	No. 55,228	to No. 55,353,	inclusive.
Trade-Marks	245	No. 131,685	to No. 131,929,	inclusive.
Labels	3	No. 21,870	to No. 21,872,	inclusive.
Reissues	6	No. 14,862	to No. 14,867,	inclusive.
Total	1139			

NOTICE.

Application Executed by Agent of Inventor.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 13, 1920.

As appears from the report of the Commissioner of Patents for the year 1914, (223 O. G., 923–1006,) there was inaugurated on September 15, 1914, on account of the conditions in Europe arising out of the war, the practice of accepting applications executed by an agent of the inventor as a compliance with the provisions of section 4887, Revised Statutes, papers executed by the inventor being required as a prerequisite to the issuance of the patent.

Notice is hereby given that after June 15, 1920, this practice will be discontinued. Thereafter no application will be accepted as complete and forwarded for examination unless executed by the inventor or his legal representative, as defined in section 4896, Revised Statutes.

J. T. NEWTON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 11, 1920.

Robert W. Willits, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Northwestern Chemical Co., of State street, Marietta, Ohio, for registration of a trade-mark and trade-mark registered January 5, 1909, No. 72,210, to Robert W. Willits, of Alexis, Ill., and a notice of such declaration sent by registered mail to said Robert W. Willits at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Robert W. Willits, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 12, 1920.

H. A. Kespohl & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of William G. Dean and Son, of 203 Pearl street, New York, N. Y.; L. H. Kassel & Co., corner Main and Fourth streets, Fort Worth, Tex., and The International Company, corner of Exchange Place and Commerce street, Baltimore, Md., for registration of a trade-mark and trade-mark registered November 24, 1896, No. 29,200, to H. A. Kespohl & Co., of Quincy, Ill., and a notice of such declaration sent by registered mail to said H. A. Kespohl & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. A. Kespohl & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Amendments to Amendments.

RULE 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendment shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for June 9-11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

APPLICATIONS UNDER EXAMINATION.
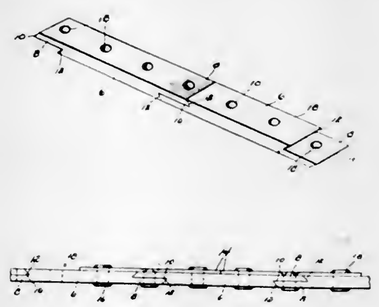
Condition at Close of Business May 15, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 3	Jan. 14	364
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Sept. 22	Dec. 18	931
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	459
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Nov. 10	Feb. 11	1,151
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 10	Jan. 31	319
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 13	Mar. 12	488
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 26	Mar. 8	794
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 8	Apr. 1	355
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Dec. 16	Jan. 2	467
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Dec. 2	Mar. 1	970
151	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Jan. 26	Feb. 11	679
222	12. Machine Elements	Sept. 10	Mar. 3	1,157
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making Metal Working; Needle and Pin Making; Turning.	Oct. 8	Mar. 13	1,110
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 18	Feb. 3	534
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 27	Mar. 2	1,036
111	16. Radiant Energy; Telegraphy; Telephony	Sept 29	Nov. 1	861
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 14	Mar. 6	248
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 30	Dec. 1	899
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Nov. 26	575
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 10	Jan. 29	718
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage: Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 3	Mar. 20	373
249	22. Aeronautics; Firearms; Ordnance	Feb. 21	Mar. 15	227
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 10	Feb. 14	571
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 17	Feb. 26	526
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 3	Mar. 18	212
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Sept. 30	Sept. 27	706
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 18	Mar. 24	540
225	28. Internal-Combustion Engines	Jan. 17	Mar. 16	806
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Sept. 15	Apr. 7	631
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Dec. 1	Apr. 8	977
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 4	Dec. 11	978
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 3	Jan. 15	1,145
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 22	Jan. 31	463
301	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	Apr. 29	Apr. 20	122
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 7	Apr. 12	461
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 13	Jan. 17	1,145
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 29	Dec. 27	1,244
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 15	Mar. 10	564
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 29	Oct. 17	1,313
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 25	Feb. 11	735
125	41. Resilient Tires and Wheels	Oct. 27	Feb. 24	807
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Nov. 11	Dec. 23	990
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Sept. 12	Feb. 7	794
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Dec. 24	Mar. 5	273
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Nov. 29	Jan. 8	741
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Oct. 17	Dec. 18	767
	Oldest new case, Sept. 2; oldest amended, Nov. 26.			
	Total number of applications awaiting action			31,726
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Dec. 30	Feb. 1	2,648
	Designs	Oct. 29	Jan. 29	938
	Labels and Prints	Jan. 2	Feb. 2	945

PATENTS

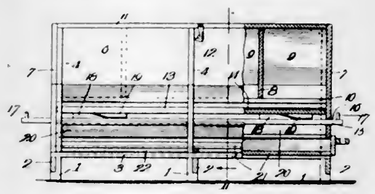
GRANTED MAY 25, 1920.

1,340,868. SICKLE-BAR. WILLIAM F. ADLOTTE, Hiattville, Kans. Filed July 7, 1919. Serial No. 309,062. 2 Claims. (Cl. 56—300.)



1. A sectional sickle bar construction comprising a series of bar sections arranged in alinement, each of said sections having reduced end portions with beveled terminals and undercut shoulders at the inner ends of said end portions, each pair of adjoining sections having their end portions arranged in overlapping relation with the beveled terminal of each adjoining section embraced by the undercut shoulder of the other adjoining section.

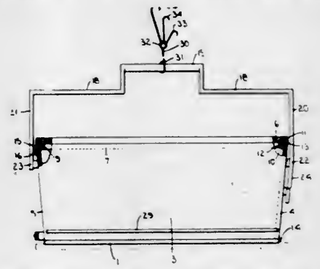
1,340,869. POULTRY-FEEDER. FREELAND B. ASHLEY, Kansas City, Mo. Filed Apr. 14, 1919. Serial No. 290,002. 1 Claim. (Cl. 119—53.)



In a poultry feeder, an elevated hopper, a shelf underlying the discharge point of the hopper and provided with depending cam lugs, an endwise slidable bar mounted in the feeder below the shelf, and provided with cam lugs reversed with respect to the first-named cam lugs and adapted when the bar is slid in one direction to engage said first-named cam lugs and elevate the shelf, a trough underlying the slide bar and a pair of downwardly converging deflectors interposed between the trough and shelf and adapted to deflect feed falling from the latter onto the former.

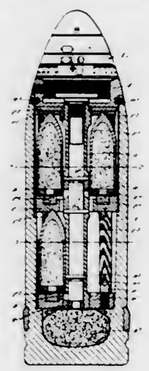
1,340,870. TOOL-BOX. ANACLETO BALBONI, Neponset, Mass. Filed July 25, 1919. Serial No. 313,265. 6 Claims. (Cl. 217—56.)

1. A tool box of rectangular form having a bottom, side and end walls permanently secured thereto and diverging from the bottom to the top, a cover having ribs adjacent its edges arranged to fit within the top of the box and to fit the outside of the bottom thereof and independent



means for locking said cover upon the top or upon the bottom of said box.

1,340,871. EXPLOSIVE SHELL. FRANCIS HENRY BARKER and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed June 21, 1917. Serial No. 176,115. 8 Claims. (Cl. 102—29.)

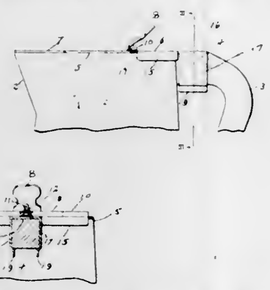


1. In an explosive shell the combination of a bursting charge, means for igniting said charge, a number of hollow bullets which are open only at their base, incendiary composition carried by said bullets, means for igniting the incendiary composition and means for causing said bullets to rotate as a whole with the shell body during the flight of the shell.

1,340,872. LIQUID-CONTAINER. CHARLES S. BARON, Tiffin, Ohio. Filed Jan. 7, 1919. Serial No. 270,058. 1 Claim. (Cl. 65—31.)

The combination of a container body provided with a handle having at the top a substantially rectangular portion presenting unbroken top, bottom and side faces, the top face being substantially flush with the upper edges of the container, a cover consisting of front and rear sections hinged together at a point between the handle and the front of the container, the rear section being provided at opposite sides of the handle with depending skirting flanges embracing the container exteriorly thereof, said rear section being also provided with a rearwardly pro-

jecting tail piece arranged upon the upper face of the said rectangular portion of the handle, and resilient side flanges fitting against the side faces of the said rectangular portion and extending to the bottom thereof and pro-



vided with inwardly extending terminal engaging portions engaging the lower face of the said rectangular portion and projecting downwardly therefrom and located wholly beneath the said rectangular portion, which forms a guard for the said terminal engaging portions.

1,340,873. PROCESS FOR PURIFYING RESINS. BENJAMIN T. BROOKS, Bayside, N. Y., assignor to The Commercial Research Company, a Corporation of New York. Filed May 14, 1918. Serial No. 234,397. 5 Claims. (Cl. 134—26.)

5. The process of purifying resins, which consists in subjecting the resinous material to the action of a chlorhydrin of a gaseous olefin, separating the liquid portion from any solids accompanying it, evaporating off the liquid portion to recover the resinous material, condensing the distillate, passing steam through the solid material to extract any liquids remaining in it, concentrating said extract, uniting it with the condensed distillate, and employing the resultant liquid for treatment of a fresh charge of resinous material.

1,340,874. FOLDING NET-FRAME. ELLIS E. BROWN, Reading, Pa. Filed Oct. 27, 1919. Serial No. 333,545. 4 Claims. (Cl. 43—12.)



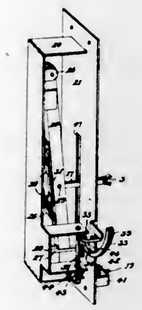
1. In combination with a tubular handle member; a tensioned-loop collapsible net frame, made up of flexible strips forming a pair of main members having fixedly connected end portions slidably guided in said handle member, and a pair of inwardly folding outer members hingedly connected together and to the free ends of the respective main members; said outer members being provided with means for limiting their outward hinge-movements substantially as set forth.

1,340,875. OPHTHALMIC MOUNTING. LUCIAN W. BUGBEE, Southbridge, Mass., assignor to American Optical Company, a Voluntary Association of Massachusetts. Filed Nov. 12, 1917. Serial No. 201,500. 18 Claims. (Cl. 88—41.)



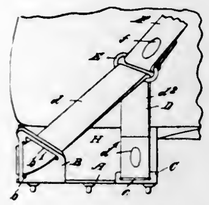
1. A visual member for an ophthalmic mounting or the like, including an outer transparent frangible member and a rear infrangible member having contact centrally with the frangible member and having its edges curving rearwardly from said member, and means engaging the rear edges of the infrangible member to provide a base for the resilient supporting arch thereof.

1,340,876. WINDOW-LOCK. JOHN BULANDA, Pullman, Ill., assignor of one-half to Franciszek Bulanda, Pullman, Ill. Filed Nov. 13, 1919. Serial No. 337,697. 3 Claims. (Cl. 292—5.)



1. A sash lock comprising a rack upon the sash, a pivoted yoke upon the casing, a swinging latch upon the yoke adapted for ratcheting engagement with the rack, normal positioning means for the yoke, a retaining catch for the yoke when the latch is in its operative position, a curved lever upon the casing adapted for releasing said catch, a shiftable rod normally engaging said lever extending exteriorly of the casing, said rack having keeper sockets therein, a spring pressed bolt carried by the casing adapted for engaging the teeth of the rack and for seating in said sockets when the sash is closed, and an operative arm connected to said bolt extending within the path of travel of said lever whereby the bolt is retracted during the inward movemnt of the latch operating rod.

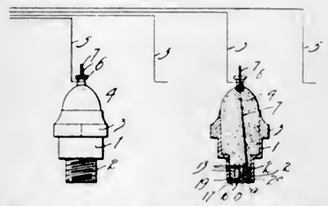
1,340,877. ICE-CREEPER. CHARLES W. CHURCHILL, Lowell, Mass. Filed Apr. 3, 1918. Serial No. 226,397. 2 Claims. (Cl. 36—62.)



1. The combination in an ice-creeper of a heel-plate, provided with ears at the front ends of the sides of said

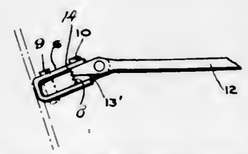
heel-plate, and with stops arranged at the rear of said heel-plate, said stops having slots, a single non-elastic strap, arranged in said slots, and having its ends secured to said ears, and having loops at the sides of said heel-plate, a loose link arranged at the closed ends of each loop and a strap adapted to pass across the instep of the wearer and connecting said links, to draw the rear members of said loops back of said links forward and upward, to hold said stops against said heel, and to draw the front members of said loops upward, to hold said plate against the bottom of said heel.

1,340,878. SPARKING PLUG. WILLIAM GEORGE CLAYTON, Melbourne, Victoria, Australia. Filed Apr. 2, 1919. Serial No. 286,982. 7 Claims. (Cl. 123—169.)



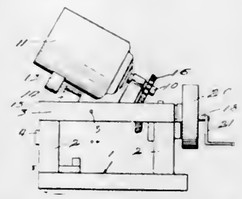
1. In a sparking plug, a metal shell and a plug of insulating material extending above said shell and at its lower end substantially level with the bottom of the shell, a conductor in said insulation, extending at an angle to the bottom of the plug, said insulating material formed at its lower end with an angular recess cut a substantial distance away from the shell on the side having the positive contact, a bridge, spark points in said bridge forming spark gaps therebetween, and a contact to the shell, gas spaces being formed within the plug on either side of the bridge.

1,340,879. TEMPLE. GEORGE H. DAY, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 26, 1917. Serial No. 208,941. 8 Claims. (Cl. 88—53.)



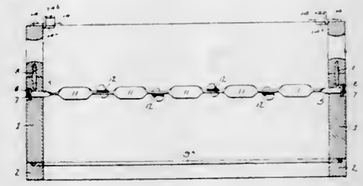
1. A device of the class described, including a casing, a toothed block, disposed within the casing, a pivoted temple supported by the casing, and means carried by the temple for engagement with the teeth on the block to retain the temple in an adjusted position.

1,340,880. CEMENT-MIXER. PETER O. EGELAND, Akeley, Minn., assignor of one-half to Benjamin F. Daniel, Akeley, Minn. Filed Mar. 29, 1917. Serial No. 158,324. 1 Claim. (Cl. 83—73.)



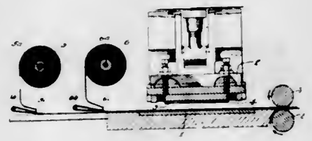
In a cement mixer, the combination with side bars fixed in spaced relation, a fixed stop below their front ends, and driving mechanism between their rear ends; of a rocking frame pivoted between said bars and having front and rear blocks, the ends of the latter projected and forming stops to rest on the side bars in one position of said frame, a cross bar at the front end of the frame to contact with said stop in another position of such frame, a handle bar fixed across the rear end of the rocking frame, bearings on said blocks, a drum mounted on the bearings of one block and having a shaft mounted in the bearings of the other block, and a wheel on said shaft adapted to coact with said driving mechanism in one position of the frame.

1,340,881. BOTTLE-CRATE. AMOS L. FOREMAN, Baltimore, Md., assignor to Foremans Systems, Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Nov. 13, 1916. Serial No. 131,121. 3 Claims. (Cl. 217—22.)



1. The combination of the end members of a bottle crate with a bottle separator having longitudinal members whose ends are secured to said end members of the crate, each of said longitudinal members of the separator consisting of a flat strip which, at its ends, merges into a circular cross section having its axis in line with the body of the strip, said end portions passing through openings in the end members of the crate and being expanded at their outer ends.

1,340,882. METHOD OF MAKING ARTICLES FROM SHEET-RUBBER. RUFUS A. FREEMAN, Flushing, N. Y. Filed May 17, 1917. Serial No. 169,335. 4 Claims. (Cl. 164—21.)



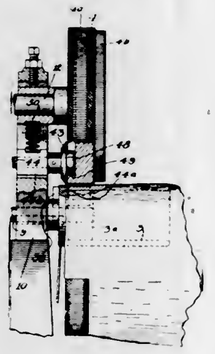
1. The method of forming articles from sheet rubber which consists in feeding separate sheets of said material, incising said sheets separately along predetermined lines, superposing said sheets one upon the other to cause the incisions to register, and severing the incised portions from the sheets while causing the material of said portions to unite along the severed edges.

1,340,883. METHOD OF AND APPARATUS FOR MAKING RUBBER ARTICLES. RUFUS A. FREEMAN, Flushing, N. Y., assignor to I. B. Kleinert Rubber Company, a Corporation of New York. Filed May 17, 1917. Serial No. 169,337. 12 Claims. (Cl. 154—1.)

1. The method of applying a binding strip of unvulcanized sheet rubber to a cap of like material, which method consists in applying the binding strip flatly against and directly to the material of the cap along the edge of the same, subjecting the two to pressure throughout their area of contact to force them into intimate contact and integral union with each other, and trimming the outer edges of the cap and strip materials, while causing said edges to unite with each other integrally.

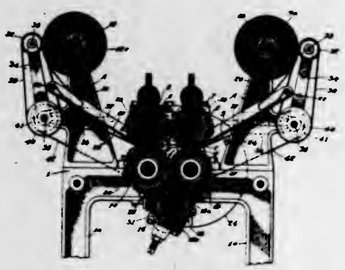
2. In a machine for applying binding strips to rubber caps, the combination of a frame, a rotary mandrel

mounted on said frame and projecting outwardly therefrom, a pressure roll also mounted in the frame and rotatable about an axis extending parallel with the axis of the mandrel and sustained in position to cause its peripheral surface to coact with the peripheral surface of the mandrel, the relation of said peripheral surfaces being such that the cap may be passed over the outer end of



the mandrel and its edge entered between the mandrel and pressure roll and be supported by the mandrel, and means for feeding a binding strip between the peripheral surface of the pressure roll and supported edge of the cap on the mandrel, whereby the cap will be rotated as the mandrel and pressure rolls are rotated, and pressure will be applied progressively to the strip and edge of the cap and will cause the two to become united.

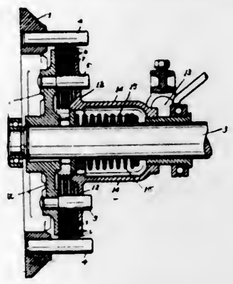
1,340,884. MACHINE FOR MAKING SHEET-RUBBER ARTICLES. RUFUS A. FREEMAN, Flushing, N. Y. Filed May 17, 1917, Serial No. 169,336. Renewed Apr. 6, 1920. Serial No. 371,724. 10 Claims. (Cl. 164—28.)



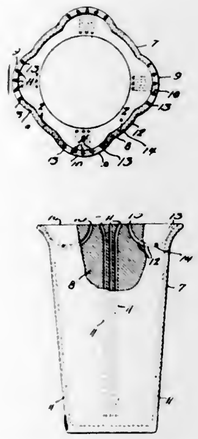
1. In a machine of the type described, the combination of two rotary die rolls provided with incising dies adapted to act on separate sheets of material and form incisions therein, rotary means adapted to draw the incised sheets together and superpose one upon the other with the incisions in registry with each other, and a rotary die roll provided with a severing die, adapted to sever the incised portions from the sheets and formed to unite the two incised portions.

1,340,885. DISK CLUTCH. LAWRENCE C. FULLER, Kalamazoo, Mich. Filed June 14, 1918. Serial No. 239,940. 6 Claims. (Cl. 192—10.)

3. In a disk clutch, the combination of driving and driven members, and alternately disposed driving and driven disks having driving connections with said driving and driven members respectively, the alternate disks having oppositely disposed offsets providing alternately disposed spring portions in the friction surfaces thereof.

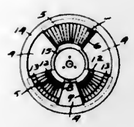


1,340,886. DRINKING UTENSIL. NAVIGLIO BASSI GALLEGUILLOS, Philadelphia, Pa. Filed Mar. 22, 1920. Serial No. 367,746. 2 Claims. (Cl. 65—13.)



1. A drinking utensil of the character described having an air duct; and a liquid duct leading to the interior of the utensil, said air duct and liquid duct being located comparatively close together to permit air and liquid to be simultaneously sucked therethrough; substantially as described.

1,340,887. KINETOSCOPIC SHUTTER. JAMES F. GORDON, Toledo, Ohio. Filed June 27, 1919. Serial No. 307,192. 5 Claims. (Cl. 88—19.3.)

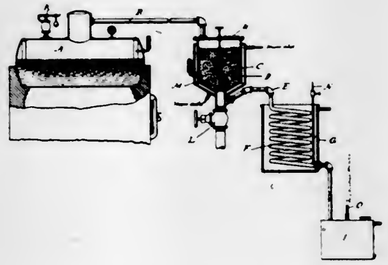


5. In a kinetoscopic shutter having a plurality of segments for cutting off the light, one of the segments having a plurality of radiating slots, a translucent material covering the slots, and means for varying the translucency of the translucent material in a radial direction from the circle passing through the center of the segment.

1,340,888. PROCESS OF SEPARATING AND EXTRACTING ZIRCONIUM OXID (ZIRCONIA) FROM ORES AND MINERALS. JOHN GORDON, New York, N. Y. Filed Oct. 16, 1918. Serial No. 258,351. 3 Claims. (Cl. 23—13.)

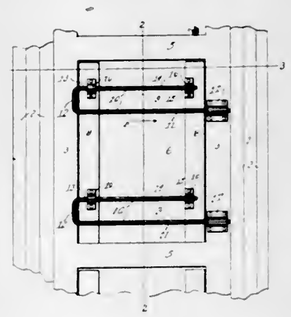
1. The step in the process of producing zirconia which consists in fusing minerals containing zirconium with a mixture of a chlorid and an oxid.

1,340,889. PROCESS FOR TREATING PETROLEUM HYDROCARBONS. THOMAS T. GRAY, Elizabeth, N. J. Filed May 18, 1914. Serial No. 839,203. 9 Claims. (Cl. 196—26.)



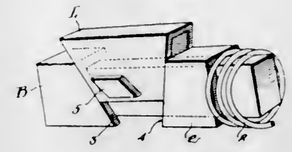
6. A process of purifying mineral oils to remove undesirable constituents, which consists in vaporizing the oil, passing such oil vapors into contatt with a body of fullers' earth, heating said fullers' earth by heat from an external source and condensing the purified vapors.

1,340,890. SILO. FREDERICK W. GROSS, Columbus, Ohio. Filed May 22, 1919. Serial No. 298,960. 2 Claims. (Cl. 20—1.4.)



1. In a silo, the combination with the wall thereof, having a doorway, of a door adapted to be fitted within said doorway, a mounting for said door comprising a pair of slidably supported elements, said elements including lower portions having the free ends thereof slidably mounted in bearings carried by the frame of said doorway, upper portions formed with said elements and disposed to lie parallel with said lower portions, said upper portions being slidably mounted within bearings carried by said door, and end portions formed with said elements and disposed to connect said upper and lower portions, whereby when said door occupies a closed position, said end portions may be reciprocated to lock the door against inward movement.

1,340,891. BREECH-CLOSURE. OLIVER B. GRAHAM, Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1917. Serial No. 203,873. 5 Claims. (Cl. 42—3.)



1. Breech closure mechanism for firearms comprising a bolt, a lock, a follower, and a recoil spring, the lock being movable laterally of the bolt into locked position in front of locking abutments on the receiver and being movable longitudinally with the bolt when out of locked position, the lock having bearing surfaces engaging the bolt, receiver and follower respectively, certain of said engaging surfaces including the lock-follower surfaces being inclined to the line of breech pressure at such angles that the movement of the lock into and out of locked position is controlled by the breech and recoil pressures acting upon the lock respectively through the bolt and follower.

1,340,892. SWIMMING DEVICE. OTTO GRUNDMANN, Jersey City, N. J. Filed Oct. 3, 1919. Serial No. 328,150. 1 Claim. (Cl. 9—21.)

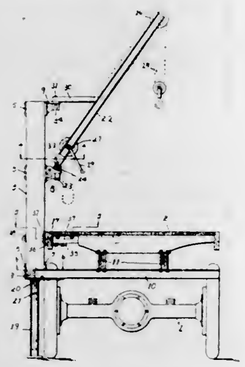


A swimming device, comprising a shoe, a knee band, a blade having an opening for loosely engaging the leg of the user above the ankle, said blade being composed of two longitudinal sections pivoted together to swing toward and away from the foot of the user, means whereby said blade is flexibly suspended from said knee band, flexible connections between said shoe and blade sections to hold the blade against turning around the leg and a flexible connection between said shoe and blade to hold the latter from slipping up the leg.

1,340,893. TRUCK-HOIST. PAUL C. HAAS, Mendon, Mich. Filed Dec. 20, 1918. Serial No. 267,558. 12 Claims. (Cl. 212—65.)

1. The combination with a running gear and body, of hanger bars disposed in a spaced relation below said body with their ends projecting at one side thereof, said bars being of Z-cross section and disposed with their lower arms inwardly providing ways, angle plates mounted on the projecting ends of said bars with their vertical arms projecting upwardly at the inner sides of the ways and notched, a post comprising facing rigidly connected channel irons having inwardly projecting arms at its lower end provided with a cross bar projecting into engagement with said hanger ways to slide thereon whereby the post may be stored below the body, said cross bar being adapted to be engaged with the notches of said plates when the post is erected, said post being also provided with a jib

bracket and with a jib strut bracket having an upwardly projecting pin, a pin on said hanger bars adapted to be engaged with said jib strut bracket for supporting said post when stored, a jib provided with a pivot adapted to be engaged with said jib supporting bracket, a U-shaped jib strut pivoted to the jib and adapted to be engaged with said pin on said jib strut bracket, said jib with its strut



collapsed thereon being adapted to be arranged above said post when the post is stored with its pivot engaging said jib strut bracket, a post supporting bolt projecting from said body and detachably connected to said post, a post strut adapted to telescope into the post, and means for adjustably connecting said strut and post.

1,340,894. DEMOUNTABLE RIM. WILLIAM ISAAC HARP, Galax, Va., assignor of one-fourth to John Linn, one-fourth to R. B. Todd, and one-fourth to J. E. Todd, Galax, Va. Filed Oct. 18, 1919. Serial No. 331,547. 4 Claims. (Cl. 152—21.)



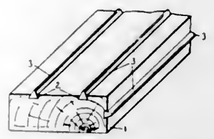
1. A demountable rim, consisting of a main section, a pair of inwardly yieldable sections of similar construction hingedly connected to one another at their inner adjacent ends and similarly connected at their outer ends to the ends of the main section, said yieldable sections and said main section having inward projections, and locking means to engage and connect said projections.

1,340,895. RULING-PEN. MAX P. HERMANN, Philadelphia, Pa. Filed June 26, 1919. Serial No. 306,904. 7 Claims. (Cl. 120—109.5.)



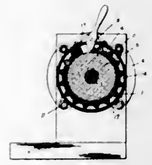
1. A pen including a blade having a channel formed by bent-up portions providing trunnion bearings; a second blade having a part located within said channel; a lever having trunnions swingably engaging said trunnion bearings; and means for adjustably moving said lever whereby the latter engages said second mentioned blade and moves it toward said first blade; substantially as described.

1,340,896. BLOCK PAVEMENT. HARRY G. JENNISON, Toledo, Ohio. Filed Mar. 7, 1917. Serial No. 152,970. 3 Claims. (Cl. 94—14.)



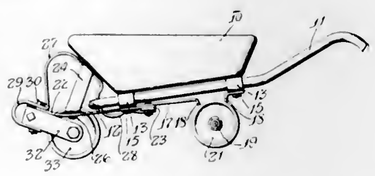
3. A paving block of rectangular formation, a groove or grooves formed in vertical relation in one or more of the side faces of said block, means fitted in the said groove or grooves for spacing the said blocks apart when regularly placed together, as and for the purpose specified.

1,340,897. CLUTCH AND BRAKING MECHANISM. JOHN C. KELLY and CURWIN ENSCOE, Dayton, Ohio. Filed May 17, 1919. Serial No. 297,731. 2 Claims. (Cl. 74—13.)



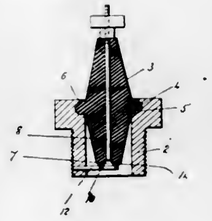
1. In a device of the type described, the combination with a cylindrical member, of a sleeve surrounding said member, rollers disposed in the space between said member and sleeve, a fixed stop for said rollers in the space between said cylindrical member and sleeve, and a lever pivoted in the latter for forcing said rollers against said stop, the outer periphery of said cylindrical member and the inner periphery of the sleeve, to effect a tight engagement between the latter and the cylindrical member.

1,340,898. WHEELBARROW. JOE KEMINSKIS, Kenosha, Wis. Filed June 6, 1919. Serial No. 302,261. 4 Claims. (Cl. 280—59.)



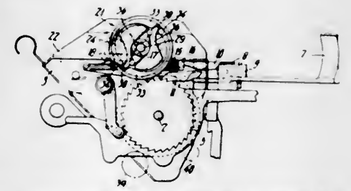
1. A wheelbarrow comprising a scoop body, handle bars comprising a single section of material bent upon itself beneath said body, strips bolted to the bottom of the body and having the ends thereof bent beneath said bars, clamping means connecting said ends with the intermediate portions of the strips, bearings beneath said bars and strips, an axle supported by said bearings at the rear portion of the body, wheels on said axle, a frame having a circular forward portion and rear extremities in alinement with said bearings, a cross brace connecting the same, a transverse brace between the body and circular portion of the frame, a longitudinal strip connected to the cross brace and body and having its forward extremity bent downwardly and provided with a U-shaped bearing portion adjacent the forward portion of the circular part of the frame, a bearing block mounted therein in an inclined position for lateral pivotal movement and a wheel journaled at the rear portion of said bearing block for movement within the frame.

1,340,899. SPARK-PLUG. ARCHIE KLEVER, Hannibal, Mo. Filed July 17, 1919. Serial No. 311,401. 1 Claim. (Cl. 123—169.)



In a spark plug, a body portion, a sleeve of insulating material secured in the body portion and having a flaring recess at its inner end, a wire electrode secured in the sleeve with one end at the bottom of the recess, and an electrode formed of a ring of wire and provided with a stem for securing it to the body portion, said ring being arranged in contact with the end of the sleeve around the larger end of the said recess.

1,340,900. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 21, 1918. Serial No. 255,101. 12 Claims. (Cl. 197—114.)



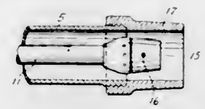
1. The combination with a revoluble platen and a line-space handle therefor, of a pawl adapted to be driven by said handle to line-space the platen, a governor, connections for turning the platen independently of the governor, and connections whereby the pawl has its speed limited by the governor in line-spacing the platen.

1,340,901. WHEEL-RIM. ALBERT E. LOGAN, Brooklyn, N. Y. Filed Apr. 22, 1919. Serial No. 291,835. 1 Claim. (Cl. 152—21.)



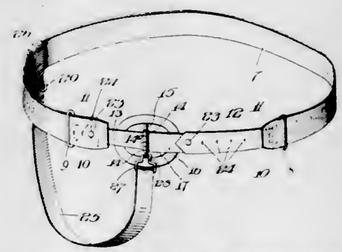
A tire rim including wide and narrow annular sections having means for engaging the bead of a tire, the meeting edges of said sections being provided with an interfitting continuous tongue and groove, said wide section being provided with bayonet slots in its inner face, L-shaped locking lugs carried by the inner edge of said narrow section and adapted to be received within said bayonet slots, said bayonet slots and said L-shaped locking lugs being spaced inwardly from the outer face of the rim to provide a smooth bearing surface for a tire, and a striking device carried by one of said sections and projecting laterally from the same.

1,340,902. GAS-BURNER. IVAR LUNDGAARD, Rochester, N. Y. Filed July 31, 1918. Serial No. 247,689. 2 Claims. (Cl. 158—109.)



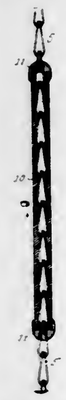
1. A gas-burner comprising: an air-tube serving, at its forward open end, as a mixing-chamber; a head, concentric with the air-tube near said end and provided with annularly arranged gas-outlet openings; and means for supplying gas to said head; the head being substantially of greatest diameter at said openings and tapering forwardly therefrom substantially in the form of a cone, of which the apex is located a substantial distance beyond the extremity of the air-tube, but which is truncated within said extremity.

1,340,903. TRUSS. PETER J. MAHAN, Philadelphia, Pa. Filed July 1, 1919. Serial No. 307,938. 2 Claims. (Cl. 128—123.)



1. A truss including a body-belt; a retaining pad having a recess therein; a rod extending through said recess; and springs pivoted to said rod and having portions projecting beyond the opposite ends of said pad and connected to the ends of said belt, said retaining pad having notches at opposite sides of said recess through which said springs extend whereby the springs are prevented from moving laterally; substantially as described.

1,340,904. SWING. PHILIP S. MEDART, St. Louis, Mo., assignor to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 17, 1919. Serial No. 338,424. 2 Claims. (Cl. 155—58.)
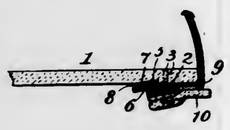


1. In a playground or like swing, a suspension member, a hand hold formed of a section of hose slipped upon said member, and end binders or collars securing said section of hose in place.

1,340,905. PROCESS OF SEPARATING MAGNESIUM FROM DOLOMITE. ARDON M. MITCHELL, Tuckahoe, Mohegan Heights, N. Y., assignor to Mitchell and Grenelle, Inc., a Corporation of New York. Filed Jan. 29, 1919. Serial No. 273,765. 11 Claims. (Cl. 23—13.)

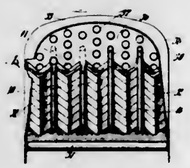
2. The treatment of dolomite consisting in pulverizing the dolomite and mixing with it an alkaline hydroxid that does not react to form a compound with the calcium element.

1,340,906. INSOLE FOR SHOES. ZACH J. MONTGOMERY, Frankfort, Ky. Filed May 3, 1915. Serial No. 25,470. 8 Claims. (Cl. 36—22.)



1. An insole for shoes comprising a body portion and an edge portion of uniform thickness, a rib consisting of a strip of flexible material secured intermediate its longitudinal edges of said body portion, and means associated with said rib and lying along and adjacent to the inner face thereof to form a guide for the inseamer.

1,340,907. BAFFLE-WALL. JOHN E. MUHLFELD, Scarsdale, N. Y. Filed Oct. 6, 1916. Serial No. 124,018. 18 Claims. (Cl. 110—87.)



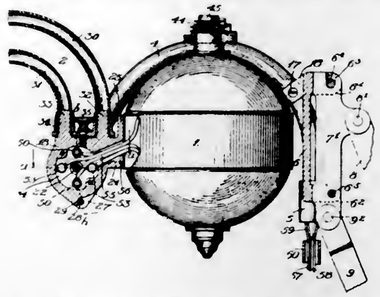
8. In a furnace arch, spaced water tubes, and reversible baffle units having diverging portions, said units being adjustable upon the water tubes and supported thereby with their intermediate portions projecting either below the plane of said tubes or above the same according to the position in which the said units may be arranged.

11. As an improved article of manufacture, a structural unit for furnace arches having parts projecting in angular relation to each other from the center of the unit and adapted for engagement at their ends with spaced supports and with the body of the unit projecting either above or below the plane of the supports.

18. In a furnace, spaced water conduits, and an arch consisting of a plurality of mating baffle bricks transversely arranged between adjacent water conduits and each of a width less than the distance between the adjacent conduits, each brick having divergently related portions adapted to be positioned in tangentially contacting engagement at their free ends with the conduits to support the brick with its medial portion in a pendant position between the adjacent conduits.

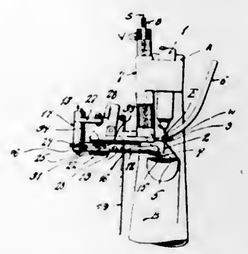
1,340,908. DENTAL ENGINE. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed May 27, 1912. Serial No. 699,938. Renewed Mar. 25, 1918. Serial No. 224,650. 9 Claims. (Cl. 172—15.)

3. In a dental engine, the combination of a frame comprising spaced bowed side parts provided with opposing cheek plates at their outer ends, a motor having a laterally projecting hollow bearing movable between said cheek plates, means coupling said bearing and cheek plates together, contact plates on the cheek plates within the bearing, yielding contacts within said bearing and engaging said contact plates, leads connecting said yielding contacts with the motor, leads passing from the contact



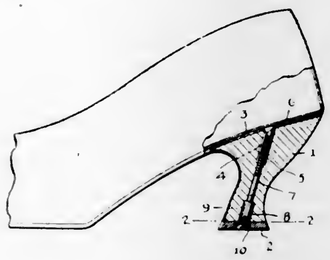
plates and adapted to be connected with a source of current, and means associated with said cheek plates for limiting the movement of the motor in the frame.

1,340,909. MACHINE FOR ATTACHING STRINGS TO ENVELOPS. CHARLES F. PFLANZE, St. Louis, Mo. Filed June 18, 1917. Serial No. 175,349. 14 Claims. (Cl. 93—61.)



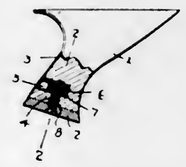
1. In a machine for attaching string to envelops, the combination of washer applying means whereby the string is secured to the envelops, a string pulling device whereby a portion of the string is pulled through the washer before the latter is applied to an envelop, and automatic severing means for severing the string after it is secured to the envelop, said automatic severing means being arranged to operate between said string pulling device and the washer applying means, so as to sever the end portion of the string beyond said pulling device.

1,340,910. WOODEN FRENCH SHOE-HEEL. JOHN L. PREO and ISABELLE HENNE, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,436. 2 Claims. (Cl. 36—42.)



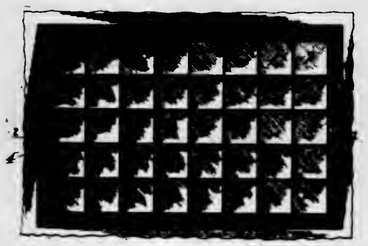
1. The combination with a high wooden shoe heel having an opening extending from its top to its bottom, and a top-lift, of a member having a threaded stem inserted downward from the top of the opening and a head to overlie a portion of the sole of the shoe, a second threaded member inserted upward in the opening from below to engage the first threaded member and thereby fasten the heel to the shoe, and a screw passing through the top-lift and threaded into said second member to secure the top-lift.

1,340,911. WOODEN FRENCH SHOE-HEEL. JOHN L. PREO and ISABELLE HENNE, New York, N. Y. Filed Sept. 19, 1919. Serial No. 324,870. 2 Claims. (Cl. 36—34.)



1. The combination of a high wooden shoe heel having an opening extending inward from its front face, a keeper inserted into said opening and having a threaded socket, a top-lift, and a screw for securing the top-lift inserted upward into engagement with the socket of the keeper.

1,340,912. PROTECTOR FOR CELLULOID CURTAIN-WINDOWS. JORDAN ROBB, Xenia, Ohio. Filed Nov. 13, 1919. Serial No. 337,840. 1 Claim. (Cl. 296—145.)

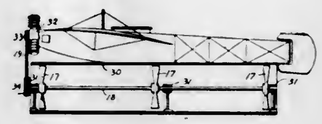


The combination with a flexible curtain having an opening therein, and a flexible window pane permanently attached to said curtain, of a protector for said window pane arranged on one side thereof and supporting the same against the force of wind exerted in the direction of said protector, said protector consisting of an open wire mesh formed of small disconnected wires which loosely cross each other, the spaces between said wires being relatively large to admit of ample vision through the window pane, and the ends of the wires forming said mesh being secured at the margin of the said pane whereby the curtain may be rolled up or folded when not in use.

1,340,913. METHOD OF AND MEANS FOR EXTENDING THE USABLE CONDITION OF METALLIC DIES AND TOOLS. HELLMUTH REINHARDT ROSENBAUM, Brooklyn, N. Y. Filed Sept. 2, 1919. Serial No. 321,170. 4 Claims. (Cl. 148—13.)

1. The method of extending the period of usable condition of a metallic die or tool, which consists in artificially heating the die or tool above the temperature naturally resulting from the use of the die or tool and below the temperature to which it was subjected in the hardening process, and keeping the die or tool at such temperature while it is being used.

1,340,914. HEAVIER-THAN-AIR FLYING-MACHINE. ALBERT EDWARD ROYLE, Paddington, near Sydney, New South Wales, Australia. Filed Oct. 23, 1917. Serial No. 198,014. 2 Claims. (Cl. 244—18.)



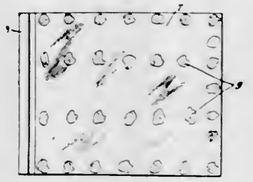
1. A heavier-than-air flying machine comprising in combination with a long relatively narrow fuselage, wings extending laterally from the forward portion of the fuselage, and an engine at the forward end of the fuselage, of a propelling unit supported beneath the fuselage and connected for operation to said engine, said propelling means comprising a conduit co-extensive in length with the fuselage and open at each end, and a plurality of propellers disposed along said conduit.

1,340,915. GARMENT. JACOB RUBIN, Philadelphia, Pa. Filed Aug. 6, 1919. Serial No. 315,581. 2 Claims. (Cl. 2—144.)



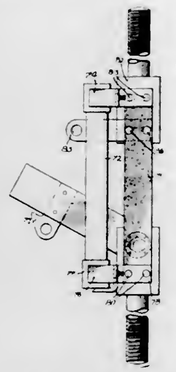
1. A closed crotch knitted garment having integral knitted body and leg portions: and a strip secured to said garment adjacent its back and extending downwardly to the crotch, said strip being of sufficient tensile strength in the direction of its length to prevent the crotch from moving downward to an unsightly or uncomfortable position relative to the shoulders of the garment due to the weight of the garment when saturated with water; substantially as described.

1,340,916. RABBLE-BLADE. WILLIAM H. SAYRE, Glen Ridge, N. J. Filed July 27, 1918. Serial No. 246,982. 11 Claims. (Cl. 259—126.)



1. A member for agitating or stirring material, said member having a body portion adapted to be moved through the material and agitate or stir the same, said body portion having wear-resistant elements disposed in the side face thereof to protect the same from wear by the abrasion of the material thereon.

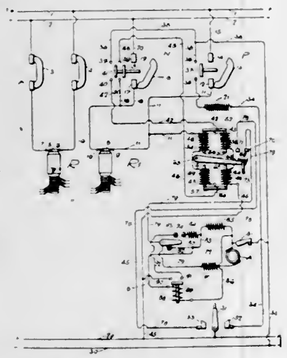
1,340,917. OVERLOAD-CIRCUIT-BREAKING APPARATUS. EDMUND O. SCHWEITZER, Chicago, Ill. Filed Jan. 10, 1919. Serial No. 270,483. 15 Claims. (Cl. 200—146.)



1. The method of interrupting a flow of current in the conductor which comprises mechanically breaking the conductor conducting the current flow wholly through a fusible element independent of the break, fusing the fusible element and interrupting the flow of current at said fusible element by interposing a fluid dielectric of greater strength than that prevailing at the mechanical break.

9. In combination, a pair of stationary terminals, a switch blade pivoted on one of the terminals, the other of said terminals having contacts for engaging the switch blade, a pair of terminal clips, a fuse mounted in said clips, a non-conducting member connecting said clips and means for connecting the clips to said terminals.

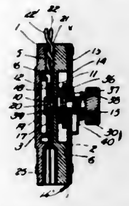
1,340,918. SWITCHING APPARATUS. WILLIAM M. SCOTT, Tredyffrin township, Chester county, Pa. Filed Nov. 26, 1919. Serial No. 340,725. 10 Claims. (Cl. 175—375.)



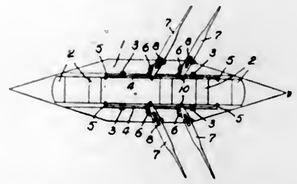
1. The combination with an electric switch, of a motor for actuating the same, a switch controlling said motor, a localizing switch controlled by said motor control switch for robbing said motor control switch of control of said motor, and a relay controlled by said motor control switch controlling the circuit controlled by said localizing switch.

1,340,919. THERMAL CIRCUIT-CLOSER. HENRY SIEBEN and BERTRAND C. HALDEMAN, Kansas City, Mo., assignors, by direct and mesne assignments, to Charles C. Hoefer, Kansas City, Mo. Filed June 11, 1917. Serial No. 174,110. 5 Claims. (Cl. 200—142.)

2. In an electrical plug connector for heated bodies having contacts coöperative with complementary contacts of the heated body, means for closing a circuit through the plug contacts and normally urged to move to open position to break the circuit, a heat-responsive element normally holding said means in circuit closing position, and a conducting member for conducting heat from the heated body to said device.



1,340,920. MEANS TO PROPEL BOATS OR THE LIKE. ADJUTOR LOUIS PHILIPPE TALBOT, Montreal, Quebec, Canada. Filed Dec. 26, 1919. Serial No. 347,465. 2 Claims. (Cl. 9—24.)



1. A device of the character described comprising slotted lugs rigidly secured to the sides of a boat; oars supporting members slidably mounted in said lugs on each side of said boat; brackets rigidly secured on said oars supporting members and intermediate thereof; a hook rigidly secured on the gunwales of said boat; oars pivotally secured on said hooks at one end and loosely mounted intermediate thereof on said brackets substantially as described.

1,340,921. APPARATUS FOR TREATING AND CANNING MILK. BURT E. TAYLOR, Mount Vernon, N. Y. Filed Nov. 7, 1918. Serial No. 261,545. 10 Claims. (Cl. 99—2.)

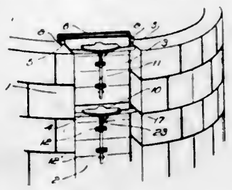


2. In a device for canning milk, a condensing device, a can filling device, a can sealing device, means to feed the cans to the filling and sealing device, means to force the milk from the condenser to the filler, and means to place all of said devices under vacuum.

4. The combination of a filling device, a chamber in communication therewith for the passage therethrough of cans to be filled, a sealing device, a duct for the passage of the filled cans connecting the filling and sealing device, a casing surrounding the filling device, a casing surrounding the sealing device, means to maintain a vacuum in the can passages and casings surrounding the filling and sealing devices, and means to permit of the introduction of cans into the passage therefor without breaking the vacuum in said casings.

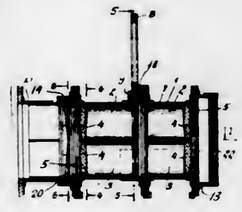
1,340,922. LATCH MECHANISM FOR SILO-DOORS. FREDERICK A. TAYLOR, Kansas City, Mo. Filed Jan. 29, 1918. Serial No. 214,303. 2 Claims. (Cl. 20—1.4.)

1. In combination, a silo provided with a door opening, a rod carried by the silo and extending across the door opening, a door, a vertical rod carried by the door and having a right angularly projecting end, a latch plate having a flange on its inner end through which the right angularly projecting end of the rod extends, means for



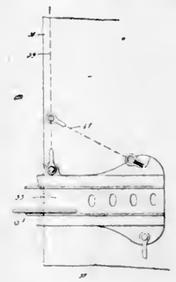
securing the plate to the vertical rod, depending bearings on the under side of the plate, the first named rod being receivable between the bearings and the flange, and a cam journaled in the bearings for engagement with the last named rod.

1,340,923. METHOD OR APPARATUS FOR PRODUCING PICTURES IN COLORS. BENJAMIN D. UNDERHILL, New Canaan, Conn., assignor to David S. Plumb, Newark, N. J. Filed Nov. 24, 1916. Serial No. 133,120. 2 Claims. (Cl. 88—16.4.)



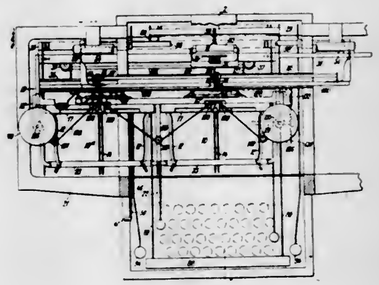
1. The method of producing projected colored pictures which consists in photographing the view to be projected through two separate optical systems having color screens of different colors and with their optical axes parallel and closely adjacent and with only adjacent portions of said lenses exposed to the light rays, deflecting the light rays forming each view away from each other to increase the distance between the centers of the pictures and then projecting the pictures so produced through corresponding color screens and in superimposed relation through lens systems having a greater separation between the centers of their exposed areas than between the centers of the exposed areas of the taking lenses.

1,340,924. TOWING DEVICE FOR USE WITH SHIPS. CECIL VIVIAN USBORNE, Westminster, London, England. Original application filed Feb. 2, 1918, Serial No. 215,221. Divided and this application filed Dec. 22, 1919. Serial No. 346,729. 4 Claims. (Cl. 114—235.)



1. A towing device for ships, comprising a member of rigid material shaped to fit over the stem and stem bar of a ship and adapted to provide means for attachment of the towing line to the bow of the ship and means for raising and lowering the said member over the stem of the ship, for the purpose specified.

1,340,925. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 20, 1918. Serial No. 223,489. 43 Claims. (Cl. 197—5.)



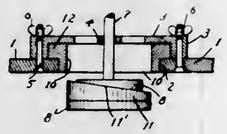
1. In a typewriting machine, the combination with a platen, of a truck movable longitudinally thereof, a plurality of sets of type-bars, pivotally mounted on said truck, so that the type-bars of each set may be swung upwardly and rearwardly to coöperate with the platen, a single set of keys all arranged in a series of rows all extending across the machine, the rows being arranged one behind another, and means whereby upon movement of the truck, to bring one of said sets of type bars opposite said set of keys, said keys will be rendered effective to actuate the type-bars so positioned.

1,340,926. STYLOGRAPHIC FOUNTAIN-PEN. CHARLES WEITZ, New York, N. Y. Filed July 7, 1919. Serial No. 308,941. 6 Claims. (Cl. 120—44.)



5. In a stylographic fountain pen having a barrel, a pen point of hard material adapted to be held in said barrel having a writing point at one end thereof and being tapered at the other end and curved channels running from said tapered end and converging to said point wherethrough the ink is fed from the barrel to the point.

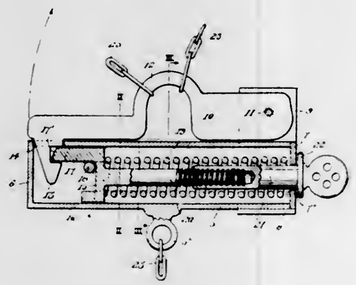
1,340,927. GOLF-HOLE RENOVATOR. RAYMOND L. WHITMAN, Hamilton, Mass. Filed Oct. 3, 1919. Serial No. 328,226. 8 Claims. (Cl. 255—73.)



7. In a golf hole trimmer, a cutting plate having a downwardly faced cutting edge and a vertically movable cutter having an upwardly disposed cutting edge.

8. A method of reforming golf holes consisting in upwardly shearing the edge of said hole against an opposed apertured plate.

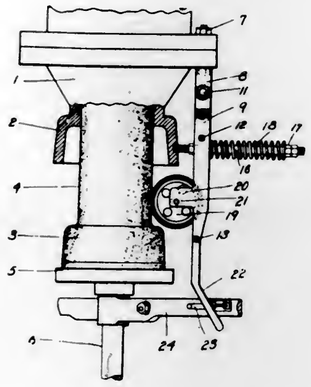
1,340,928. PADLOCK. MICHAL ZUKOWSKI, Wilmington, Del. Filed Jan. 27, 1920. Serial No. 354,429. 1 Claim. (Cl. 70—105.)



A pad lock of the type described comprising a tubular casing, a bolt slidable therein, upper and lower inwardly directed extensions carried by the bolt, the extensions having parallel opposed faces and outer faces curved concentric with the casing to hold the bolt transversely positioned in said casing, a pin carried by the casing and engaging the lower parallel face of the upper extension to prevent rotary movement of the bolt within said casing, a shackle pivoted to said casing, a head carried by said shackle adapted for engagement with the upper extension of said bolt, a coil spring engaging said bolt to hold the same normally projected in engagement with the shackle head, a screw projecting from said bolt and inclosed by said spring and a tubular key screw adapted for engagement with said bolt screw for retracting the bolt against tension of the spring said key being disposed within said spring and free of engagement with the casing.

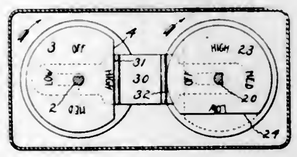
1,340,929. AUTOMATIC AND INTERMITTENT BRANDER FOR SOCKET SEWER-PIPE. CARL BATLINER, Kansas City, Mo., assignor to Walter S. Dickey, Kansas City, Mo. Filed Aug. 29, 1919. Serial No. 320,689. 5 Claims. (Cl. 25—20.)

1. In combination, a clay pipe forming machine provided with a reciprocatory table to receive the pipe, a pivoted, depending bar adjacent to the pipe forming machine and having a lower curved end, a pipe brander wheel carried by the bar intermediate its ends, a spring normally exerting force against the bar to move the



wheel into branding position, and means carried by the table for moving the bar in opposition to the spring.

1,340,930. CONTROLLING DEVICE. HOYT CATLIN, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Nov. 1, 1918. Serial No. 260,743. 7 Claims. (Cl. 200—50.)



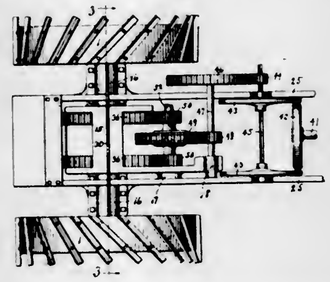
6. In a device comprising a plurality of rotatable members in fixed relation to one another, a shifting member on each of said rotatable members and having a portion at a greater distance from its center of rotation than another portion, and a shiftable locking member between said rotatable members and having an abutment associated with each of said shifting members, both of said portions of each of said shifting members being engageable with one abutment of said locking member, the portion of greater distance from the center being adapted when the shifting member is rotated to cause said locking member to move, and the locking member engaging the portion of lesser diameter to lock the shifting member against rotation.

1,340,931. BRUSH. CASSIUS E. CAZEL and JOHN W. LE CRAW, Cincinnati, Ohio. Filed Nov. 17, 1919. Serial No. 338,651. 2 Claims. (Cl. 15—13.)



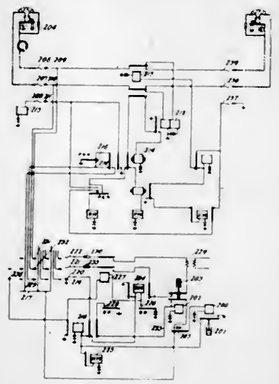
1. A brush comprising a head formed from a single sheet of metal stamped around its entire edge to form an endless channel, a retaining wire seated in said channel, bristles disposed in the channel and folded over and around the retaining wire, and pins passing through the walls of the channel and beneath the retaining wire, whereby when the one end of the pins are clenched the walls of the channel will be bent inwardly toward each other and clamp the bristles tightly between them.

1,340,932. AXLE CONSTRUCTION. LOUIS F. CHRESTENSON, Port Huron, Mich., assignor to Port Huron Engine & Thresher Company, Port Huron, Mich., a Corporation of Michigan. Filed Apr. 17, 1919. Serial No. 290,646. 3 Claims. (Cl. 180—70.)



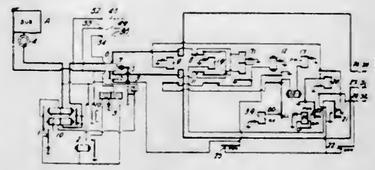
1. In an axle construction, the combination of a frame having a pair of alined bearings, a transversely arched rib extending across between the bearings, frame side bars connected to said bearings, a second pair of bearings connected to the side bars, and casing members connected to the bearings, one of said casing members connecting to said arched rib, and an axle extending through the bearings connected by the rib.

1,340,933. ELECTRICAL TESTING SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 26, 1917. Serial No. 182,946. 6 Claims. (Cl. 179—18.)



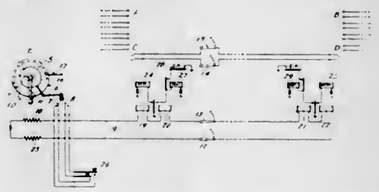
5. In an electrical testing system, normally open circuits, a station on each of said circuits, said station being arranged upon use to close said circuits, selective switches for interconnecting said circuits, a source of signaling current, and means associated with said switches responsive to a prolonged closure of either of two connected circuits for automatically connecting said source of current thereto, said signaling current being connected before disconnection of said circuits.

1,340,934. AUTOMATIC TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1917. Serial No. 205,336. 10 Claims. (Cl. 179—18.)



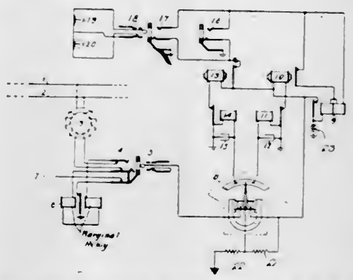
1. In a telephone system, a calling line, a called line, a non-numerical switch associated with said calling line, numerical switches, means for operating said switches to establish a connection between said calling and called lines, a busy signaling device, a polarized relay associated with said non-numerical switch and means for reversing the current through the polarized relay for operating said relay to connect said busy signaling device to said calling line if said called line is busy.

1,340,935. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 11, 1919. Serial No. 310,060. 7 Claims. (Cl. 179—16.)



1. In a telephone system, a main exchange, a branch exchange, switches at said exchanges, terminal banks for said switches, a circuit for controlling said switches, an impulse sending device for transmitting impulses over said circuit to operate said switches, means for setting said device to transmit a definite number of impulses, and means for stopping said device at predetermined positions in its return movement whereby said switches may be intermittently operated to stop on various terminals of their respective banks before said sending device is restored to normal.

1,340,936. TESTING SYSTEM. ROY D. CONWAY, Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 9, 1918. Serial No. 233,460. 11 Claims. (175—183.)



1. In a testing system, in combination with a relay to be tested, a source of direct current, means adapted to

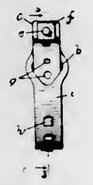
serially connect the source of current with the winding and the contacts of the relay thereby causing the relay to periodically make and break its own circuit, and means to indicate the state of the adjustment of such contacts.

1,340,937. HOSE-CLAMP. ISIDOR COOPER, Brooklyn, N. Y., assignor to Otis-Flagg Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1916. Serial No. 87,673. 1 Claim. (Cl. 24—19.)



A hose clamp composed of a section of substantially the same width throughout, formed of flexible material, said section having a drawn up, closed and pierced section, forming a radially projecting lug intermediate the ends thereof, and having a sequence of openings toward one end thereof, said section being formed in the segment of a circle, a second segmental section of a shorter arc than said first named section, and also formed of flexible material of substantially the same width throughout, and of substantially the same width as the other section, said last-named section having one end thereof turned at substantially right angles and pierced, and a sequence of flexible tongues adapted to coöperate with the openings in said other section, a bolt adapted to pass through said lugs respectively, and a nut coöperating with said bolt.

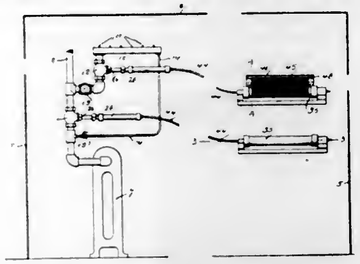
1,340,938. HOSE-CLAMP AND THE ART OR METHOD OF MAKING SAME. ISIDOR COOPER, Brooklyn, N. Y., assignor to Otis-Flagg Corporation, New York, N. Y., a Corporation of New York. Filed May 1, 1916. Serial No. 94,561. 4 Claims. (Cl. 24—19.)



3. A hose clamp formed of a continuous strip or band of substantially the same width throughout and having the ends thereof turned at an angle to form straight narrow lugs having bolt openings therethrough, said strip having in the length thereof a slot with the metal on opposite sides thereof forced outwardly to form therein a substantially diamond shaped opening, said strip being wound upon itself with one end of the strip or band passed through said opening to cause one portion of the strip or band to cross the plane of another portion thereof and present a clamping area in substantially the same circular plane throughout, said strip having on one side thereof a series of projections and a series of openings adapted to be engaged by said projections whereby the strip may be cut into two sections and said two sections may be united to form a continuous clamp of small diameter, and take up means operative upon said lugs.

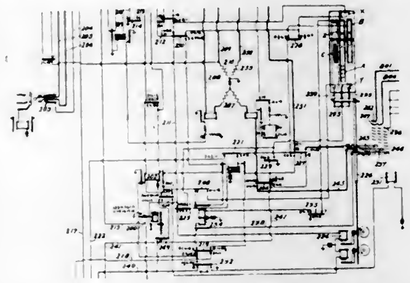
1,340,939. RELATIVE-HUMIDITY-CONTROLLING MEANS. CLIFFORD A. CUTLER, Buffalo, N. Y. Filed Aug. 26, 1918. Serial No. 251,408. 4 Claims. (Cl. 236—44.)

1. In a drying kiln, relative humidity controlling means comprising heating means, a source of moisture supply, a temperature controlling valve for regulating the temperature of the air in the kiln, a humidity controlling valve for regulating the humidity of the air in the kiln, an expansion chamber, containing fluid, for each of the



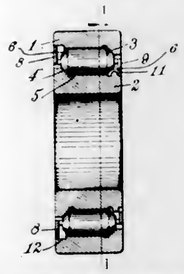
valves, means connected with the expansion chambers for controlling the valves by fluid pressure, and a moist wick surrounding the expansion chamber of the humidity controlling valve.

1,340,940. TELEPHONE-EXCHANGE SYSTEM. AMOS F. DIXON and FRANK N. REEVES, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 7, 1917. Serial No. 166,839. 32 Claims. (Cl. 179—27.)



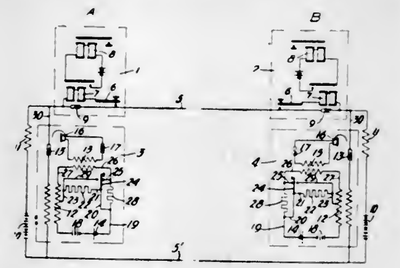
1. In a telephone exchange system, the combination of an operator's position, a plurality of connecting circuits, a recording device, means for automatically associating the recording device with a connecting circuit which has been taken for use, and means for recording a character to identify the particular connecting circuit with which the recording device has been associated.

1,340,941. ROLLER-BEARING. BURT E. DOHNER and ALBERT J. HUFF, Dayton, Ohio. Filed Mar. 10, 1919. Serial No. 281,764. 1 Claim. (Cl. 64—62.)



A roller bearing comprising inner and outer shells having oppositely disposed tapered end thrust bearing surfaces, the inner shell having a circumferential integral bead semicircular in cross section adjacent to the end thereof having a smaller exterior diameter, said bead being beyond the tapered bearing surface of the outer shell, the outer shell having a circumferential clearance cut on the interior thereof at one end, a cage between said inner and outer shells, rollers therein having tapered ends, said rollers engaging the inner and outer shells, and the tapered ends thereof engaging the tapered end thrust bearing surfaces of the said shells, said cage having an end flange of greater diameter than the bearing surface of the outer shell and lying within the clearance cut of said outer shell when the bearing parts are assembled.

1,340,942. SIGNALING SYSTEM. GEORGE D. EDWARDS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 28, 1917. Serial No. 204,340. 19 Claims. (Cl. 179—4.)



1. In an electrical signaling system, a telephonic receiver, a telephonic transmitter, a transformer having a plurality of windings inductively associated, a source of direct current, a circuit including the transmitter and source of current in series with a portion of one of the transformer windings, a second circuit in parallel with the first circuit including the source of current and another portion of the transformer winding included in the first circuit, a telephone receiver operatively associated with the parallel circuit, and a third circuit including another of the transformer windings.

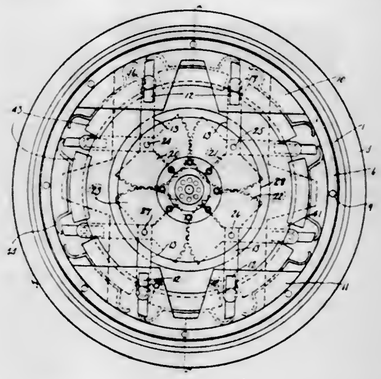
1,340,943. BREECH-CLOSURE. THEODORE H. EICKHOFF and OSCAR V. PAYNE, Cleveland, Ohio, assignors, by direct and mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1917. Serial No. 203,887. 35 Claims. (Cl. 42—3.)



1. A firearm comprising a receiver, a breech-block, and means including a separate locking member interposed between the receiver and breech-block with oblique surfaces arranged on a plurality of sides of the line of breech pressure for preventing movement of the breech-lock relatively to the receiver at high breech pressure but permitting such movement at low pressures, the receiver having means for guiding the locking member into and out of locking position.

1,340,944. VEHICLE-WHEEL. FRANCISCO LÓPEZ FERNÁNDEZ, Habana, Cuba. Filed Mar. 1, 1918. Serial No. 219,803. Renewed Apr. 17, 1920. Serial No. 374,777. 5 Claims. (Cl. 152—28.)

2. In a vehicle wheel, the combination of an outer tread member, a felly for the same, segments attached to said felly, a pneumatic tire, disks supporting said pneumatic tire, paired links pivotally attached to said disks and guided in a rectilinear path on said segments, and gear sectors connected with the link of each pair and intermeshing with each other, said gears being adapted to cause, upon movement of one of said links, an equivalent movement of the other link of said pair in the same direction.



4. In a vehicle wheel, the combination of an outer tread member, a felly for the same, a pair of rings rigidly connected with said felly at opposite sides of the same, segments secured to said rings, a pair of disks resiliently and normally concentrically supported with respect to said rings, a plurality of paired links pivotally mounted on each disk and slidably guided on said segments, and another pair of disks rigidly connected with said first named disks, said links being located on opposite sides of said first named disks and between said first named diks and said second named disks.

5. In a vehicle wheel, the combination of an outer tread member of solid rubber, a felly for the same, rings connected with said felly, segments attached to said rings, said segments being provided with slots, the slots in the segments on one ring being arranged at a right angle to the slots in the segments of the other ring, disks normally concentrically disposed with respect to the felly, a plurality of links connected with said disks and guided in said slots, gear sectors connected with the links and pivotally connecting said links in couples, a pneumatic tire supported on said disks, and a plurality of yielding connections movably mounted on said tire and interposed between said tire and said felly.

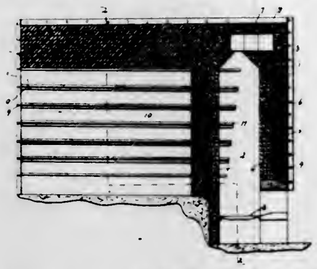
1,340,945. METHOD OF MANUFACTURING METAL-SPOKE WHEELS. EDWARD FULDA, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 3, 1919. Serial No. 301,447. 8 Claims. (Cl. 29—174.)



1. The herein described method of constructing metal wheels having metal rims and spokes, consisting in welding the spokes to a substantially flat strip of metal adapted to form the rim of the wheel, cleaning or finishing the

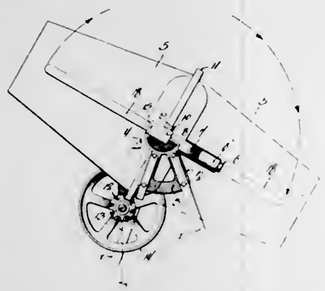
weld and then bending the strip to the form of the circumference of the rim in the completed wheel and causing the ends of said spokes to converge in the hub part.

1,340,946. PORTABLE BAKER'S OVEN. GEORGE L. GAY, Philadelphia, Pa., assignor of one-half to Frank Whittmann, Philadelphia, Pa. Filed June 5, 1919. Serial No. 302,068. 4 Claims. (Cl. 107—63.)



4. In an oven of the character described, a baking chamber, a heating chamber, pipes leading from the heating chamber to the baking chamber on an incline, cork bricks surrounding the baking chamber, fire bricks surrounding the heating chamber, an asbestos lining interposed between the fire brick and the cork brick, and a metal sheaving inclosing the entire structure.

1,340,947. MIXER. MICHAEL L. GEHL, ARTHUR L. MERRIAM, and HENRY M. GEHL, West Bend, Wis. Filed July 21, 1919. Serial No. 312,372. 4 Claims. (Cl. 83—73.)



1. In a mixer, a supporting frame, a rotary mixing receptacle tiltable on said frame from loading to dumping position, a driven gear connected with the receptacle for revolving the same, a drive shaft journaled in the frame substantially parallel to the tilting axis of the receptacle, a single driving gear on said shaft for intermittent engagement by the driven gear, and means for tilting the receptacle to swing the same to and from said loading and dumping positions, said gears being engaged when the receptacle is in loading position and when in dumping position, and disengaged when the latter is being moved to and from either of said positions.

1,340,948. COMB. GLENN G. GIVENS, Newport News, Va. Filed Aug. 17, 1918. Serial No. 250,318. 6 Claims. (Cl. 132—3.)



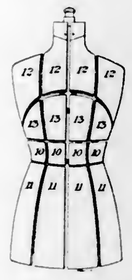
1. In a comb, gear teeth on the teeth thereof, a rack bar meshing with the gear teeth, and means operable to reciprocate the rack bar.

1,340,949. BUILDING UNIT. CHAUNCEY M. GOODRICH, U. S. Army. Filed Mar. 19, 1919. Serial No. 283,643. 6 Claims. Filed under the act of Mar. 3, 1883, 22 Stat. L., 625. (Cl. 108—12.)



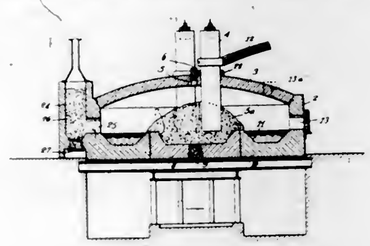
2. A packing and binding device formed of a continuous sheet of material consisting of lateral flanges connected by a web, one of said flanges being extended and bent back upon itself with its projecting end lying in proximate inclined relation to the web.

1,340,950. DRESS-FORM. FRANK B. GRANGER, New York, N. Y., assignor to Hall Borchert Dress Form Company, New York, N. Y., a Corporation of New Jersey. Filed May 15, 1919. Serial No. 297,184. 5 Claims. (Cl. 223—18.)



2. In a dress form the combination of a pair of wall sections, a plate secured to each wall section and having a flange substantially at right angles to the plane thereof and each flange having an extension projecting beyond the edge of the wall section, and means for pivotally connecting said extensions.

1,340,951. SMELTING TIN AND OTHER ORES. JAMES H. GRAY, New York, N. Y. Filed Mar. 18, 1919. Serial No. 283,303. 11 Claims. (Cl. 204—63.)

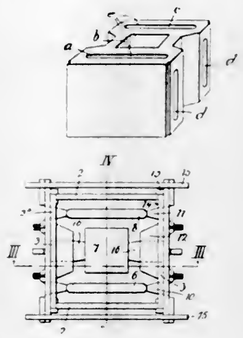


2. A furnace adapted for smelting ores of low volatile metals and for melting such metals having a hearth designed to hold the charge and having an electrical heating device, said furnace being practically closed against admission of air so as to maintain a non-oxidizing atmosphere and non-oxidizing conditions therein, said furnace having outlet flues for the fumes adapted to contain material for trapping the metal in said fumes.

1,340,952. MOLD FOR CASTING ARTIFICIAL BUILDING-STONE WITH OUTER AND INNER, VERTICAL AND HORIZONTAL THROUGH-CANALS. HUGO GRÖNBOOS, Copenhagen, Denmark. Filed Dec. 11, 1917. Serial No. 206,654. 2 Claims. (Cl. 25—121.)

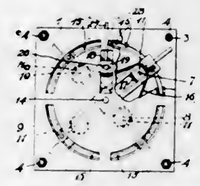
1. An apparatus for molding building blocks comprising a frame including bottom, side, and end members

hinged to the bottom member, cores supported in the bottom member, and cores removably fitted in the side



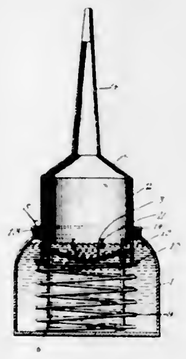
members and coacting with the other cores for the purpose described.

1,340,953. MULTIPLE DRILL. WILLETT H. J. GWYER, Yonkers, N. Y. Filed June 19, 1919. Serial No. 305,313. 4 Claims. (Cl. 77—22.)



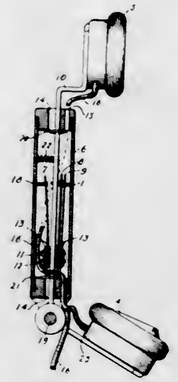
1. In a machine of the character described, a frame, a plurality of rotatable spindles mounted therein, means for adjusting said spindles toward and from the center of the frame and angularly around the center of said frame, a driving belt for revolving all of said drill spindles, means for driving said belt and means for adjusting the tension of said belt, said belt adjusting means operating on said belt driving means.

1,340,954. OIL-CAN. JAMES H. HALL, Rupert, Idaho, and WILLIAM B. HAMILTON, Delta, Utah. Filed Sept. 4, 1919. Serial No. 321,558. 2 Claims. (Cl. 221—43.)



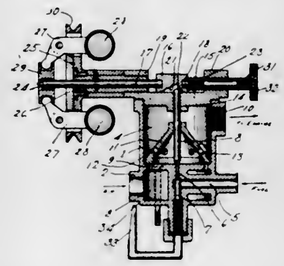
1. An oil can comprising a body or reservoir having an opening in its top, a cylinder mounted to slide in the opening and having its inner end open and provided at its outer end with a spout or nozzle, a plunger in the cylinder and rigidly supported against the bottom of the reservoir to prevent inward movement with the cylinder, and a spring normally pressing the cylinder outward, said cylinder having openings for permitting the oil to pass from the reservoir to the cylinder, and having a radially extending flange for limiting its outward movement, said plunger being a conical plate arranged with its apex downward.

1,340,955. TELEPHONE SET. RAYMOND R. HERRMANN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,525. 8 Claims. (Cl. 179—103.)



8. A telephone set comprising a transmitter, a receiver, circuits therefor, means to support said receiver for movement relative to said transmitter and switching means controlled by said relative movement to open and close said transmitter circuit and simultaneously vary the efficiency of the receiver circuit.

1,340,956. CARBURETER. OSCAR R. HUKLE, Joliet, Ill. Filed Aug. 16, 1915. Serial No. 15,765. Renewed Sept. 26, 1919. Serial No. 326,563. 3 Claims. (Cl. 123—123.)



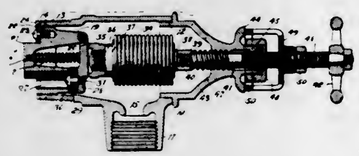
1. A carbureter, comprising a casing provided with a mixing chamber and having an oil inlet and a plurality of air inlets concentrically arranged with respect thereto, a gravity actuated valve member subdividing said chamber into two compartments and arranged to open and close said air inlets so as to control the admission of air from one to the other of said compartments, and a needle valve carried by said member and arranged to control the admission of oil through said oil inlet, said member having a plurality of apertures providing communication between said compartments.

1,340,957. ROLL-FILM CARRIER. ORVILLE CHARLES HUMMEL, Nauvoo, Ill. Filed Apr. 16, 1919. Serial No. 290,487. 2 Claims. (Cl. 224—5.)



1. A roll film carrier comprising a casing having parallel side members, a front terminating short of said side members, a back provided with end flaps adapted to cover the ends of the side members, a carrying strap having a portion arranged to extend between the side members at a point beyond the adjacent end of the front, whereby articles may be passed into the casing in position to be supported by the strap, and a movable false bottom adapted to rest normally on said carrying strap for receiving the articles.

1,340,958. STEAM-TRAP. FRANK B. JONES, Altoona, Pa. Filed Sept. 22, 1919. Serial No. 325,440. 8 Claims. (Cl. 236—56.)



1. A steam trap comprising a main casing to be connected with a radiator and a drain pipe, a plug screwed into the inner end of said casing and having a through passage at its lower side and a valve hinged at its upper end and carrying packing adapted to close said passage, and a thermostat within said casing adapted when in its expanded state to maintain said valve closed.

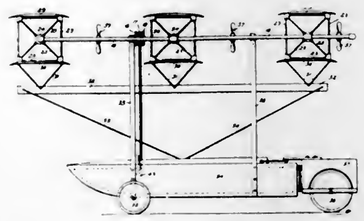
1,340,959. DENTAL MASSAGE-TOOL. WILLIAM L. JONES, Philadelphia, Pa., assignor to Vibro-Dental Products, Incorporated, a Corporation of Pennsylvania. Filed Aug. 14, 1916. Serial No. 114,717. 1 Claim. (Cl. 32—15.)

In a device of the character stated, an extension hand piece arranged for being detachably connected with the usual hand piece and rotary chuck of a dental engine, combined with a rotary spindle in the extension hand piece having an extension for engagement in the chuck, a reciprocating plunger in the free end of the extension hand piece provided with a tool holding end, a spring continually tending to force the plunger inward, means within the extension hand piece for imparting a positive reciprocating motion outward and a controlled inward movement to



the plunger, said means actuated by the rotary motion of the spindle, and means to hold the plunger against rotation.

1,340,960. AEROPLANE. OLIVER A. KALBFUS, Baltimore, Md. Filed Sept. 6, 1919. Serial No. 322,114. 10 Claims. (Cl. 244—14.)



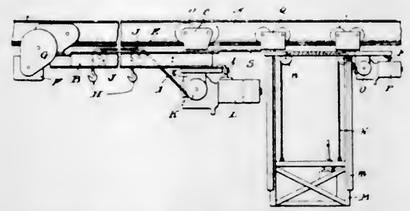
1. In an aerial craft the combination with a horizontal rectangular frame, of a plurality of supporting surfaces in different vertical planes and all pivotally sustained from said frame; a body pendently sustained from the frame and below said supporting surfaces and means between the body and the supporting surfaces and connected with the latter for tilting the supporting surfaces simultaneously.

1,340,961. METAL WHEEL. LAURENCE S. LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 3, 1919. Serial No. 301,454. 2 Claims. (Cl. 21—69.)



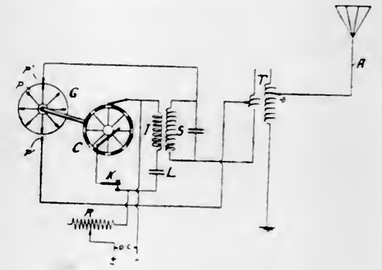
1. In a wheel of the character described, a substantially rigid spoke member comprising sections or lengths of angle iron assembled edge to edge to form radial tubular spokes and combined with side plates fastened against the edges of said spokes.

1,340,962. CONVEYING MECHANISM. HENRY M. LANE, Detroit, Mich. Filed Sept. 25, 1919. Serial No. 326,202. 4 Claims. (Cl. 104—122.)



1. Conveying mechanism comprising a trolley adapted to travel upon an overhead track, work supporting means capable of vertical movement, a vertically movable operator's cage carried by the trolley and capable of independent vertical movement with respect to the work supporting means.

1,340,963. RESONANT CONVERTER. WALTER S. LEMMON, New York, N. Y. Filed Sept. 1, 1916. Serial No. 117,993. 5 Claims. (250—37.)



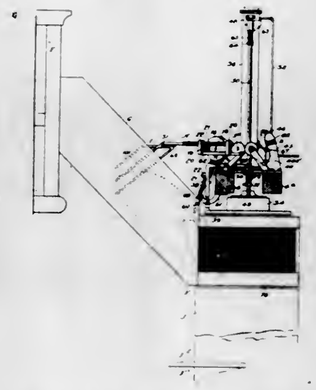
1. Apparatus for the production of electrical oscillations comprising a source of electrical energy, an oscillatory circuit, means for alternately connecting and disconnecting said circuit to said source, a second oscillatory circuit coupled to said first circuit and a spark gap connected to said second circuit adapted to discharge the energy transferred to the second circuit at time intervals corresponding to the alternate connection and disconnection of the first circuit to the electrical source.

1,340,964. APPARATUS FOR HANDLING COTTON AND THE LIKE. HARRY W. LEGON, Atlanta, Ga., assignor to Continental Gin Company, Birmingham, Ala., a Corporation of Delaware. Filed Mar. 29, 1915. Serial No. 17,814. Renewed Nov. 4, 1918. Serial No. 261,170. 30 Claims. (Cl. 100—25.)

5. In an apparatus such as described, the combination of a tramper press, a feeding instrumentality including, a movable feeding member, a support on which said member is pivotally mounted and normally held by yielding pressure in fixed position relatively to the support, and means for moving the support and feeding member in unison to positively deliver material to the press box; and means responsive to displacement of said feeding member relatively to its support for effecting the operation of the tramper press and simultaneously stopping the operation of the feeding instrumentality.

19. In a cotton feeding device, the combination of a support on which the cotton is progressed, and positive feeding means therefor including a plurality of feeding members movable angularly across the support, and alternately engageable with the cotton.

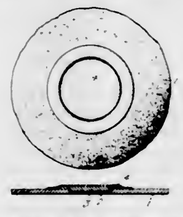
21. A cotton tramping apparatus, the combination of a press box, a power cylinder, a plunger adapted to be actuated by fluid pressure supplied to the power cylinder, a valve for controlling the fluid pressure supply, mechanical connections for actuating said valve to supply fluid pressure to the power cylinder in a manner to effect lowering movement of the plunger, and fluid pressure actuated connections for actuating said valve to reverse the fluid pressure supply and effect upward movement of the plunger when it has reached a predetermined lowered position in the press box.



26. An apparatus for tramping cotton and the like comprising a power cylinder, a press box, a piston movable in the power cylinder and having a tramper head, a valve controlling the delivery of operating fluid to said power cylinder, valve operating mechanism, feeding mechanism, a shaft positively connecting said mechanisms, a lever rigid on said shaft and fulcrumed thereby, a spring pressing one end of said lever, and adapted when released to move the shaft to valve opening and feed disconnecting position, a trip engageable with the other end of said lever to hold said spring compressed, and means for intermittently moving said trip out of engagement with the valve operating element thereby releasing the spring.

29. An apparatus for tramping cotton and the like, comprising a power cylinder, a press box, a piston movable up and down in the power cylinder and having a tramper head, a valve for delivering operating fluid to the upper and lower ends of the power cylinder, valve operating mechanism, feeding mechanism, a shaft positively connecting said mechanisms, a lever rigid on said shaft and fulcrumed thereby, a spring pressing one end of said lever, and adapted when released to move the shaft to valve opening and feed disconnecting position, a trip engageable with the other end of said lever to hold said spring compressed, means for intermittently moving said trip out of engagement with the valve operating element, thereby releasing said spring, and means movable with the tramper head for moving the operating element into position to actuate the valve to deliver operating fluid to the lower end of the power cylinder.

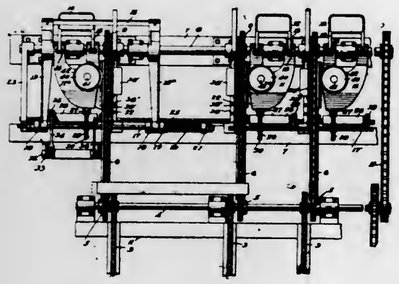
1,340,965. PROCESS OF VULCANIZING. THOMAS ALEXANDER MCALLISTER, Augusta, Ga. Filed Dec. 10, 1919. Serial No. 343,831. 2 Claims. (Cl. 18—50.)



2. A process of repairing breaks in pneumatic tubes and the like, which consists in cementing to the outer face of

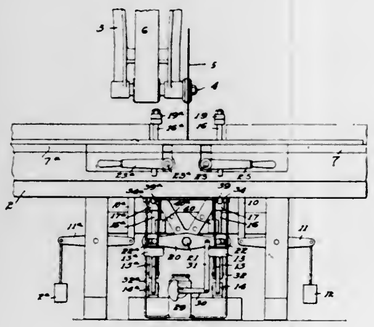
the tire a sheet of vulcanized rubber, in placing raw rubber on the outer face of the sheet and in vulcanizing said rubber.

1,340,966. LUMBER-MARKING MACHINE. JOSEPH G. MCDONOUGH, Eau Claire, Wis. Filed Mar. 1, 1916. Serial No. 81,382. 25 Claims. (Cl. 101—37.)



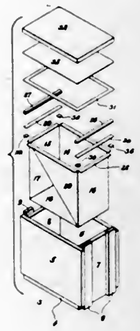
1. The combination, with means for moving lumber, of a die mounted to make an impression or mark on the end surface of the lumber, a spring pressed pin and means mounted on the die and engaging said pin for moving the die back and forth to position it with respect to pieces of lumber of varying width.

1,340,967. LUMBER BRANDING AND REBRANDING MACHINE FOR PLANING-MILLS AND ROLLER-BEDS. JOSEPH GILBERT MCDONOUGH, Eau Claire, Wis. Filed July 31, 1916. Serial No. 112,418. 23 Claims. (Cl. 101—35.)



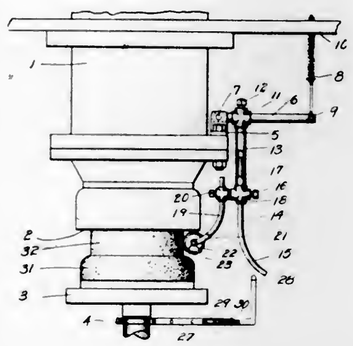
1. The combination, with a lumber or timber supporting table composed of sections arranged end to end and mounted for movement out of alinement with each other, of means for clamping transversely severed pieces of lumber on said table sections, means for moving one section and the lumber thereon to expose the lumber on the other section, and means for applying a mark or impression to the piece of lumber or timber so exposed.

1,340,968. LINING FOR PACKING-BOXES. JOSEPH M. MERROW, Hartford, Conn., assignor to The Merrow Machine Company, Hartford, Conn., a Corporation of Connecticut. Filed Nov. 16, 1917. Serial No. 202,331. 3 Claims. (Cl. 217—3.)



1. A box lining including a rectangular sheet of material folded to form both a seamless covering for the bottom and sides of a box and a flange to extend over the rim of the box.

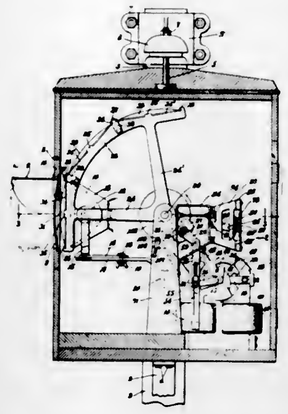
1,340,969. AUTOMATIC AND INTERMITTENT BRANDER FOR SOCKET SEWER-PIPES. JOHN EASTER MINTER, Columbus, Ga., assignor to Walter S. Dickey, Kansas City, Mo. Filed Aug. 29, 1919. Serial No. 320,678. 20 Claims. (Cl. 25—20.)



1. The combination with a pipe forming machine having a reciprocatory table, of a brander having a normal tendency to move toward the machine, and means actuated by the reciprocatory table for moving the brander away from the line of discharge of the pipe forming machine.

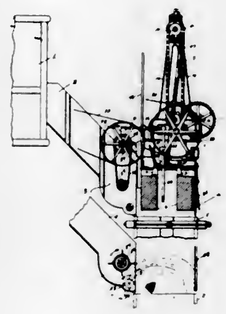
1,340,970. SIGNAL APPARATUS. CHARLES H. MORRISON and FRANK H. NICHOLSON, New Haven, Conn. Filed July 31, 1918. Serial No. 247,484. 28 Claims. (Cl. 246—223.)

1. In signaling mechanism, a movable signal part adapted to be moved from one position to another and held there, an electromagnetic motor having an armature operatively related to the signal part and movable to an operated position by the energization of said motor to move said signal part to its operated position, and means cooperating with said motor and rendered effective by the



movement of the armature to its said operated position to increase the torque of the motor at said position with respect to its torque at nearby positions.

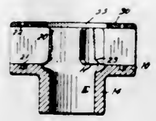
1,340,971. COTTON-TRAMPER. EUGENE MUNGER, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware. Filed Mar. 4, 1919. Serial No. 280,651. 9 Claims. (Cl. 100—25.)



1. In a press of the character described, a press box, a follower reciprocable thereinto, means to drive continuously during the baling operaion the follower, a feed chute, reversely rotating bladed feeder elements disposed adjacent to the discharge end of the feed chute and rotatable in a direction to throw the material to be pressed into the press box, and automatic means to interrupt the rotation of said elements when the follower is in the press box.

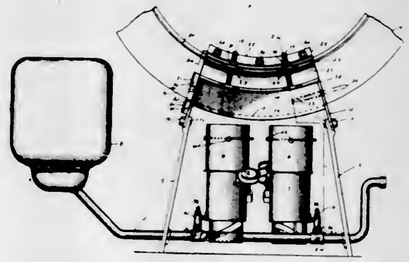
6. In a press of the character described, a tramper mechanism comprising a main driving shaft with tight and loose pulleys thereon, speed reducing gearing driven by said tight pulley and adapted to operate the tramper, a driving belt adapted to engage one or the other of said pulleys, a brake shoe adapted to engage the tight pulley as a brake wheel and a belt shifter mechanism adapted simultaneously to force the brake shoe into engagement with the tight pulley as it shifts the belt therefrom onto the loose pulley.

1,340,972. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 30, 1918. Serial No. 231,781. 5 Claims. (Cl. 10—120.)



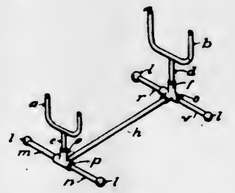
1. In a die stock, the combination, with a frame having chaser guideways adjacent to one face and a sleeve portion adjacent to the opposite face, a removable cover plate for said guideways, removable chasers occupying the guideways and having shoulders on their top and bottom edges, and means adapted to engage said shoulders for locking the chasers in place either edge up.

1,340,973. TIRE-VULCANIZER. CHARLES NORDSTROM, Milwaukee, Wis. Filed July 28, 1919. Serial No. 313,876. 5 Claims. (Cl. 18—18.)



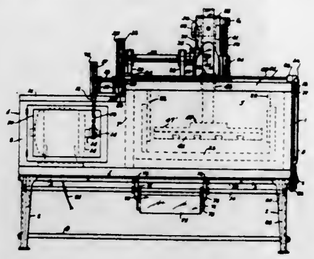
5. A mold for a tire vulcanizer comprising a lower mold section having a tread receiving chamber and lateral flanges formed on its top edges, and a top mold section including two complementary members having tire rim and side engaging portions, means adjustably clamping said complementary sections together to bind the rim of a tire therebetween, means engaging the lateral flanges of the lower section and the projecting ears of the top sections to bind the tread of the tire held between said complementary sections firmly against the walls of the tread receiving chamber, and an open heating chamber formed on the under side of the lower section.

1,340,974. BOTTLE-HOLDER. THOMAS A. O'REILLY, St. Louis, Mo. Filed May 5, 1919. Serial No. 294,734. 1 Claim. (Cl. 248—11.)



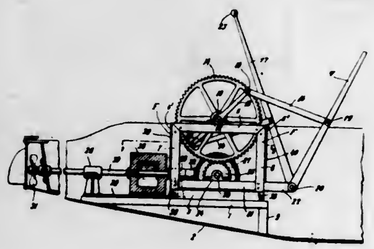
A device of the character described, comprising a substantially H-shaped base, sections rising from the base at the angles of intersection, extensions having screw threaded portions to engage said sections to adjustably support them on said sections, said extensions having longitudinally extending threaded sockets in their upper ends, supporting yokes having stems thereon adapted to be received in said sockets to form swivel connections between the extensions and yokes.

1,340,975. ETCHING APPARATUS. ROBERT R. PAGE, Brooklyn, N. Y. Filed Apr. 30, 1919. Serial No. 293,735. 13 Claims. (Cl. 41—9.)



1. In an apparatus of the character described, the combination of a chamber; a cover hinged over said chamber; guide means carried by said cover; a supporting means guided by said guide means; a driving crank; a link connecting said crank and supporting means; and a supporting plate fixed on said supporting means in said chamber out of contact with the walls and spaced sufficiently from said walls to permit the opening of the cover when the plate is held at its upper limit by the placing of the crank at its upper dead center.

1,340,976. HAND-OPERATED POWER MECHANISM FOR SMALL BOATS. AUGUST PANN, Brooklyn, N. Y. Filed Oct. 1, 1919. Serial No. 327,771. 1 Claim. (Cl. 115—24.)



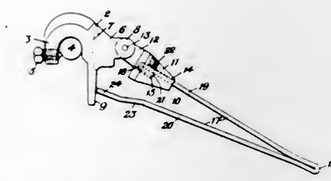
In hand-operated power mechanism for small boats, a bed-plate secured at the bottom of the boat and extending longitudinally thereof, a pair of longitudinally alined bearings mounted in a rear section of said bed-plate, a rotatable propeller shaft journaled in said bearings, a bevel pinion fixed on the inner end of said propeller shaft, a pair of parallel fastening bars fixed on the front section of said bed-plate, a rectangular framework mounted on top of said bed-plate, said framework comprising a pair of upper longitudinal bars, a pair of lower longitudinal bars, four corner posts and transverse connecting pieces, the lower ends of the corner posts engaging said fastening bars, a transverse shaft rotatably mounted on said upper longitudinal bars, a large gear fixed on said upper shaft, a transverse shaft rotatably mounted on said lower longitudinal bars, a small gear fixed on said lower shaft and in mesh with said large gear, a bevel gear fixed on said lower shaft and in mesh with said bevel pinion, a crank fixed at one end of said upper shaft for manually rotating said large gear, and fastening members passing through said corner posts and said fastening bars to secure said framework in position on the bed-plate, said fastening members being easily removable to permit ready removal of the framework and all parts carried thereby from said bed-plate, the lifting of the unfastened framework from the bed-plate automatically disconnecting the bevel gear from the bevel pinion, and the replacing of the framework on the bed-plate automatically establishing said connection.

1,340,977. DEMOUNTABLE RIM. HARRY J. PARKER, San Francisco, Calif., assignor, by direct and mesne assignments, to Parker Collapsible Rim Corporation, a Corporation of Delaware. Filed Aug. 26, 1916, Serial No. 117,101. Renewed Sept. 12, 1919. Serial No. 323,432. 2 Claims. (Cl. 152—21.)



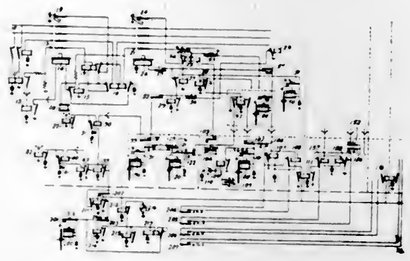
1. A demountable rim divided transversely and provided with a collapsible segment, a plate slidably engaging the contiguous ends of the divided portion of said rim, a spindle rotatably supported by one of said ends and having an adjustable engagement with the other end, and means for rotating said spindle.

1,340,978. COP OR BOBBIN HOLDER. EDWARD F. PARKS, Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 29, 1918. Serial No. 251,895. 12 Claims. (Cl. 242—130.)



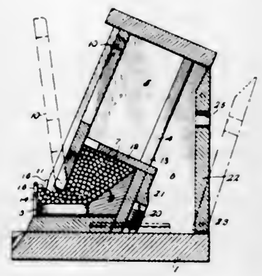
1. The combination with a tilting bobbin-holder, of means for engaging the bobbin to secure it in place on the holder, said means adapted to maintain the holder in its tilted position when the bobbin is removed therefrom and to release the holder to allow it to return to normal position when another bobbin is placed thereon.

1,340,979. CALL-DISTRIBUTING SYSTEM. LIPA POLINKOWSKY, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 16, 1918. Serial No. 245,222. 12 Claims. (Cl. 179—27.)



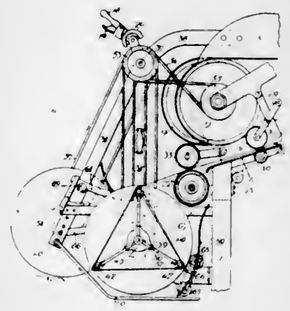
1. A call-distributing system comprising calling lines, operators' positions, means for normally extending a call only to idle operators, and means operable upon the initiation of calls that fail to find an idle operator for extending such calls to busy operators.

1,340,980. MATCH-BOX. WILLIAM J. PREVOST, Springfield, Mass. Filed Sept. 9, 1919. Serial No. 322,755. 3 Claims. (Cl. 206—28.)



2. A container for matches having in combination, an inclosed chamber portion to receive the matches, the front side of the container comprising a door member which is pivotally secured at its lower end to permit the upper end of the same to open for the purpose of discharging the contents of a full box of matches face front, as described, into the container having a fixed discharge outlet for the matches at its lower end, fixed wires extending across the outlet to permit only one match at a time to be removed by the hand of the operator, said wires serving to hold back the remainder of the matches in the container.

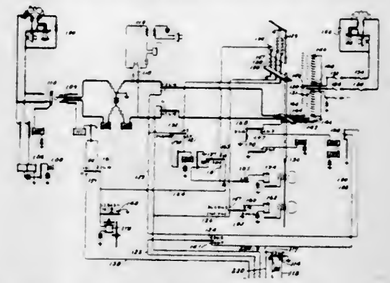
1,340,981. REELING DEVICE. CHRISTIAN REINHARDT and ADOLPH LEIBUNGUT, New York, N. Y. Filed Nov. 17, 1917. Serial No. 202,443. 16 Claims. (Cl. 242—55.)



1. A reeling device adapted to reel up strips of fabric comprising a plurality of strip reeling means and means for guiding strips of fabric in separate paths toward the reeling means, comprising revoluble members arranged to revolve on relatively divergent axes.

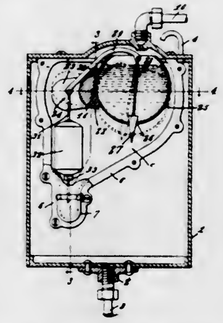
1,340,982. TELEPHONE SYSTEM. JOHN NEWBERRY REYNOLDS, Greenwich, Conn., and FRANKLIN A. STEARN, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1916. Serial No. 139,539. 14 Claims. (Cl. 179—27.)

1. In a telephone system, an incoming line, outgoing lines, a switch for interconnecting said incoming line with any of said outgoing lines, movable brushes for the said switch, fixed terminals associated with said outgoing lines arranged to be engaged by said brushes, a fundamental circuit, a stepping relay and a contact in said circuit, and



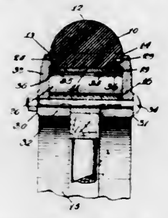
means controlled by the successive engagement of one of said brushes with certain of said fixed terminals for opening and closing said circuit at said contact.

1,340,983. VACUUM-FEED ATTACHMENT FOR CARBURETERS. FRANK V. RISINGER, Youngstown, Ohio, assignor to The Block Gas Mantle Co., Youngstown, Ohio. Filed Mar. 21, 1919. Serial No. 284,008. 4 Claims. (Cl. 158—36.)



1. Apparatus for utilizing the suction of an engine for elevating liquid fluid from a primary tank to a point above a carbureter, and including a chamber, a receptacle in the chamber having an outlet, a valve normally closing the outlet, a supply pipe discharging into the receptacle, a suction port, means operated by the downward movement of the receptacle under the weight of liquid directed thereinto for closing the suction port, and a float for lowering the receptacle and closing the suction port when the liquid rises to a predetermined level in the chamber, said float constituting a weight for holding the valve open in the receptacle when the receptacle is lowered prior to the liquid reaching said predetermined level.

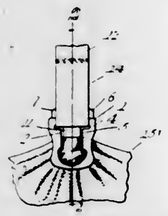
1,340,984. VEHICLE-TIRE. WILLIAM H. ROBINSON, Brooklyn, N. Y., assignor of one-half to Ernest Kendall, Brooklyn, N. Y. Filed Sept. 28, 1918. Serial No. 256,083. 1 Claim. (Cl. 152—8.)



In a vehicle tire, spaced flanges each with a beveled inner side protruding from opposed faces of two spaced

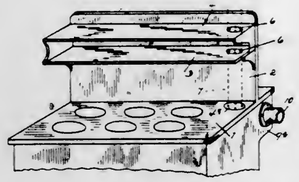
plates provided on the felly of the wheel of the vehicle and said flanges being disposed in spaced grooves in a resilient tread element arranged between the plates.

1,340,985. CLASP. JOHN C. SANDERS, Harrisburg, Pa., assignor of one-half to Jesse Hawkins, Harrisburg, Pa. Filed June 6, 1918. Serial No. 238,513. 1 Claim. (Cl. 24—245.)



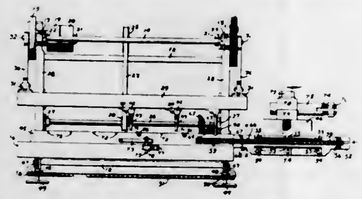
In a stocking supporter, a first member having a slot comprising a laterally enlarged lower end and a reduced part extended upwardly to a point adjacent the upper end of the first member and having parallel side edges; and a second member comprising a head, a foot, and a neck connecting the head and the foot, the width of the reduced part of the slot being but slightly less than the width of the foot, whereby the foot may be inserted through the reduced part of the slot when the second member is turned on its longitudinal axis through a relatively small arc, the longitudinal edges of the neck converging to exert a wedging action in connection with the parallel side edges of the reduced part of the slot; and means for suspending both of said members for relative movement.

1,340,986. RANGE. HENRY D. SCHALL, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed Apr. 28, 1919. Serial No. 293,161. 1 Claim. (Cl. 126—17.)



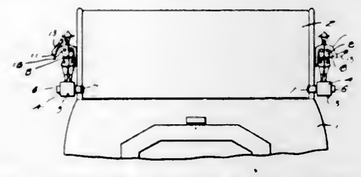
A stove provided with a plurality of openings for connection with a stove pipe, and formed with a depressed seat surrounding each opening, and a closure and a stove pipe collar alternatively detachably engageable with said seats.

1,340,987. AUTOMATIC FRANKING-MACHINE. ARTHUR J. SHIRCLIFFE, Norwood, Ohio. Filed July 30, 1917. Serial No. 183,561. 10 Claims. (Cl. 144—75.)



1. In a woodworking machine, the combination of a bed plate adapted to support a piece of work, a tool beam arranged along one side of the bed plate, means for advancing and retracting the tool beam with respect to the bed plate, the tool beam having a longitudinal slot in its outer edge, a plurality of bracket plates slidably engaging against said forward edge and having tongues adapted to project into said slot, clamping bolts carried by the bracket plate and having enlarged heads engaging in the slot to bind therein and hold the bracket plates in adjusted position, said bracket plates having undercut recesses therein extending at right angles to the groove in said tool beam, tool sockets mounted on said bracket plate and having enlarged inner ends adapted for binding engagement in said undercut recesses, and means carried by the bracket plates for adjusting said tool sockets in the recesses of the latter.

1,340,988. DIRECTION-INDICATOR. CARL F. SHONG, Wichita, Kans. Filed June 6, 1919. Serial No. 302,226. 1 Claim. (Cl. 116—52.)



A direction indicator comprising a body, a stationary section formed on said body and having its end of hollow formation, said section having a slot in its hollow end provided with a lateral branch at its outer end, a movable section hinged to the hollow end of the stationary section, a flexible member secured to the hinged end of the movable section and adapted to move in the slot and branch thereof, and a handle secured to the flexible member.

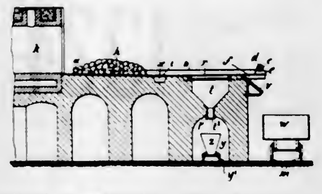
1,340,989. AERIAL-CABLE GUIDE. TEMPLE CLIFFORD SMITH, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 8, 1919. Serial No. 275,874. 6 Claims. (Cl. 254—194.)



1. In an aerial cable guide adapted to be secured to a messenger wire, a main frame, an auxiliary frame associated therewith, sheaves journaled in said frames, hooked members provided on the main frame adapted to support said guide on the strand, a clamping plate associated with one end of the main frame and auxiliary frame and cooperating with one of the hooked members for rigidly attaching said guide to the wire, means carried on one end of the main frame whereby a common pivotal point is provided for the clamping plate and one end of the auxiliary frame, and means fixed to the outer end of the main frame whereby a pivotal point is provided for the opposite end of the auxiliary frame.

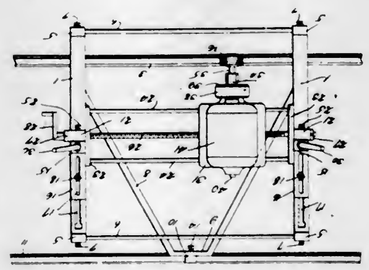
1,340,990. COKE-OVEN PLANT. CARL STILL, Recklinghausen, and CARL WESSEL, Borbeck, near Essen, Germany; said Wessel assignor to said Still. Filed May 8, 1915. Serial No. 26,852. 2 Claims. (Cl. 83—56.)

2. In combination, a coke oven system comprising a plurality of ovens, a horizontal and wide stationary storing and quenching bench common to and adapted to receive coke from all said ovens, and provided with a channel, a plurality of bars secured in place to form a screen over said channel, the outer ends of said bars being down-



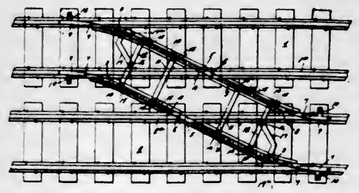
wardly inclined, a stationary ramp, formed, in part of said outer ends of the bars, and extending longitudinally of the bench, and means for scraping coke from the bench, over the screen and toward the ramp aforesaid.

1,340,991. RAIL-GRINDER. EDWARD P. TABOR, Worcester, Mass., assignor of one-fourth to James J. Egan, Worcester, Mass. Filed Dec. 7, 1918. Serial No. 265,711. 3 Claims. (Cl. 51—178.)



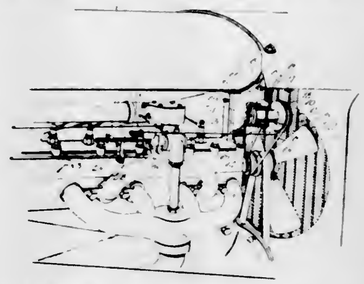
1. In a device for grinding railroad track rails *in situ*, a frame; a lead screw carried thereby; a carriage actuated by the lead screw; an auxiliary frame whereon the carriage slides; means for mounting the auxiliary frame for transverse tilting movement on an axis coinciding with the axis of the lead screw; and grinding means mounted on the carriage.

1,340,992. RAILROAD-SWITCH. JOSA TORYOWSKI, South St. Paul, Minn. Filed Dec. 18, 1919. Serial No. 345,896. 1 Claim. (Cl. 238—12.)



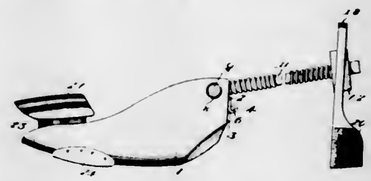
A temporary switch between parallel tracks, said temporary switch comprising a pair of rails, said rails being normally held spaced from each other by arching members arching the adjacent rails on the inner sides of the parallel tracks, cut away portions in the rails of the temporary switch for the reception of the adjacent inner rails of the permanent tracks, the ends of the rails of the temporary switch having the flanges and webs cut away so that the treads thereof will register with the treads of the rails of the permanent tracks and brackets carried by the treads at the ends of the rails of the temporary switch and adapted to be secured to the cross ties for preventing lateral springing or spreading of said tread portions.

1,340,993. TRACTOR-GOVERNOR. WENSEL TUMA and MARTIN TUMA, New Prague, Minn. Filed May 8, 1919. Serial No. 295,813. 4 Claims. (Cl. 123—98.)



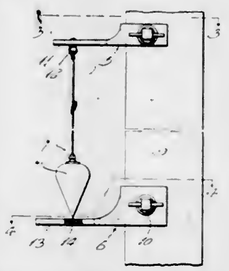
1. In a governing device for tractors, the combination with the tractor motor having a forwardly extending rotary shaft, a carbureter, and a rock shaft for extending longitudinally of the motor for controlling said carbureter; of a centrifugal governor mounted adjacent the front end of said motor and driven from said rotary shaft, a rod parallel with said rock shaft and longitudinally shiftable by said governor, and means connecting said rod and rock shaft for turning the latter from the former.

1,340,994. SHOE-STRETCHER. HENRY WATERS, Bisbee, Ariz. Filed Sept. 25, 1919. Serial No. 326,153. 5 Claims. (Cl. 12—131.)



1. A shoe stretcher comprising similar sections grooved on their inner faces, the grooves registering, said sections being slidably connected at the heel end, each groove having depressions in its bottom at the ball and at the toe spaced apart from each other and registering with those of the other sections, a stretcher plate, a nut journaled between the sections, a rod threaded through the nut for moving the stretcher plate, said rod having its ends threaded in opposite directions, a heel engaging frame, and a nut on the rear end of the rod with which the frame is slidably connected to permit the shoe to be stretched longitudinally.

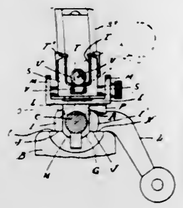
1,340,995. PLUMBING DEVICE. CARL WERNER, Omaha, Nebr. Filed Apr. 1, 1919. Serial No. 286,661. 1 Claim. (Cl. 33—216.)



A plumbing device comprising a substantially U-shaped clamp removably attachable to the work to be plumbed, a

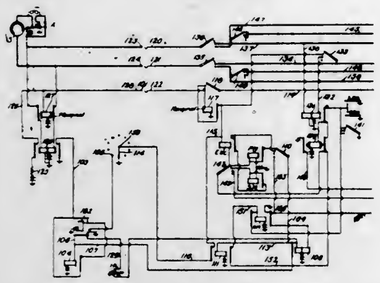
plate extending laterally from said clamp, a plumb bob secured to and depending from said plate at a point spaced from the work a distance equivalent to at least one half of the diameter greatest of the plumb bob, a second clamp to be spaced below the other clamp and removably attachable to the work, a plate extending laterally from said second clamp, and means on the last named plate coacting with the plumb bob for indicating when the work is vertically positioned.

1,340,996. GUN-SIGHT. FRANK A. WILLIAMS, Detroit, Mich. Filed Sept. 19, 1918. Serial No. 254,711. 39 Claims. (Cl. 33—55.)



13. In a gun sight, the combination with a leaf member centrally cut away, of a peep sight mounting adjustably engaging said member and offering slight obstruction to vision through said cut away portion, and an apertured disk forming a peep sight detachably engaging said mounting and exposing its periphery as well as its aperture to clear vision.

1,340,997. MACHINE-SWITCHING TELEPHONE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1917. Serial No. 195,706. 8 Claims. (Cl. 179—18.)



1. In a telephone system, telephone lines, a plurality of selective switches for interconnecting said lines, means for sending impulses, a circuit for the transmission of said impulses, means responsive to the initial successive presence and absence of flow of current over said impulse circuit for extending said circuit to one of said switches, and means for operating said switch, said extending means being responsive to a second successive presence and absence of flow of current over said impulse circuit after the operation of said switch to extend said circuit to an additional one of said selective switches.

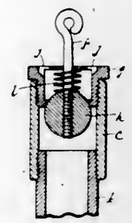
1,340,998. AUTOMOBILE IDENTIFICATION-TAG. JAMES W. WILLIAMS, Spokane, Wash. Filed Jan. 15, 1919. Serial No. 271,251. 6 Claims. (Cl. 40—5.)

1. An automobile identification tag comprising a plate displaying identification data, said plate having an opening, an insert in and filling said opening, the obverse side of said insert being flush with the corresponding face of said plate and displaying data showing the period of time



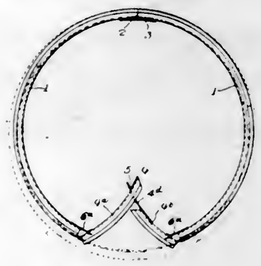
during which the tag may be lawfully used, the reverse side of said insert having a flange secured removably against the reverse side of said plate.

1,340,999. FLOAT-VALVE. LOUIE GLENN WILSON, Morning Sun, Iowa. Filed Jan. 12, 1920. Serial No. 350,996. 5 Claims. (Cl. 137—104.)



5. In a float valve, a pipe coupling adapted to receive an externally threaded tubular valve seat, a perforated end closure consisting of a plate having a central guide opening therein at the upper extremity of said valve seat, a spherical valve of greater diameter than the interior diameter of said valve seat but of lesser diameter than the interior diameter of said pipe coupling and provided with a valve stem which projects upwardly through the guide opening in the perforated end closure of said valve seat, a spring interposed between said end closure and said valve adapted to open said valve, a float adapted to close said valve against the resistance of said spring, means connecting said float with said valve stem.

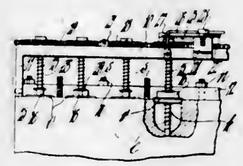
1,341,000. DEMOUNTABLE RIM. LEONARD P. WOODBURY, Berkeley, Calif., assignor to Parker Collapsible Rim Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 25, 1918. Serial No. 246,676. 2 Claims. (152—21.)



1. In a collapsible tire rim comprising main and hinging members; a joint between two members comprising a splicing member rigidly projecting from one member across the joint between the members, overlapping upon the web of the other member, and extending thence through a slot therein and overlapping said other member beyond the slot therein; the splicing member being countersunk into the web where it is presented toward the tire, and

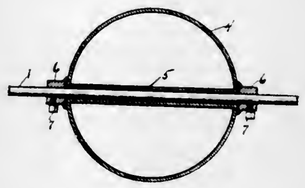
being deflected where it passes through the slot to bring its portions on opposite sides of the slot, in circumferential alinement respectively, with the normal portion of the web and the countersunk portion thereof, and having its end laterally enlarged beyond the slot which brings it into circumferential bearing against the end of the countersink.

1,341,001. VALVE-GRINDER. HARRY A. WRIGHT, Springfield, Mass., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 20, 1919. Serial No. 283,845. 5 Claims. (Cl. 51—29.)



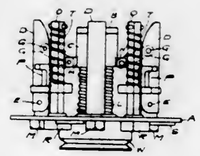
1. A valve grinder, comprising a member having means to support it from a cylinder block and in overlying relation to the valves thereof, a second member adapted to be secured to said block and to which the first member is pivotally connected, so as to rotate about a horizontal axis, a plurality of valve-oscillating elements mounted in said first member, and means for oscillating said elements, said means including a manually operable lever pivoted to the first member to swing in a plane at right angles to the axes of said valve-oscillating elements and adapted for use in moving the first member relatively to the second member.

1,341,002. FLOAT MECHANISM. JOHN M. WRIGHT, Birmingham, Ala. Filed June 25, 1917. Serial No. 176,690. 2 Claims. (Cl. 137—104.)



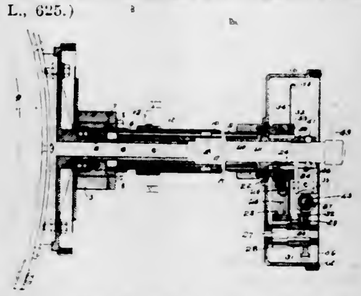
2. In combination, a pivoted float rod having its free end unthreaded, a float having a diametrically disposed tube piercing it and adapted to slidably and rotatably move on the float rod, and adjustable end bearings mounted on the rod by set screws and adapted to hold the float rotatably mounted in the desired position on the float rod, substantially as described.

1,341,003. MANUFACTURE OF WIRE ROPE. GEORGE PYBURN, Airdrie, Scotland. Filed May 4, 1920. Serial No. 378,831. 1 Claim. (Cl. 242—111.)



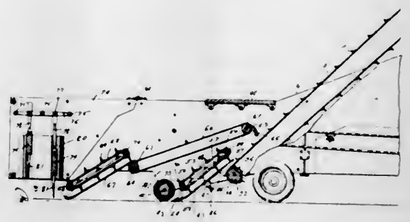
A reel of the class described comprising a plate having a central opening, a tubular boss on one side concentric with said opening, said plate having radial slots; distance pieces pivotally mounted on said plate, arranged equidistant from the center thereof and having angular faces at the pivotally mounted end, catches slidably mounted on the distance pieces, springs to move said catches toward said plate, springs to engage the said angular faces and hold said distance pieces and catches against casual turning movement; members on the plate radially adjustable in said slots and having securing means, arms pivotally mounted on said members, a sleeve adjustably mounted on the tubular boss, links pivotally connected to said sleeve and to said arms, and a spring on said tubular boss to move said sleeve outwardly.

1,341,004. TRAINING CONTROL FOR LIGHT-PROJECTORS. CARL E. AKELEY, New York, N. Y. Filed Mar. 19, 1919. Serial No. 283,649. 3 Claims. (Cl. 240—61.) (Filed under the act of March 3, 1883, 22 Stat. L., 625.)



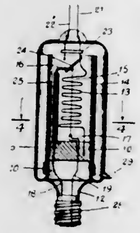
1. The combination with a searchlight mounted for oscillations about a vertical and a horizontal axis, of a hand training control connected to the searchlight and movable to oscillate the searchlight about its vertical axis, gearing in the training control operable to oscillate the searchlight about its horizontal axis, means for releasing the gearing from operation, and means for oscillating the light when the gearing is released.

1,341,005. SNOW CLEANING AND MELTING MACHINE. MICHAEL S. ARAPIS, Springfield, Mass. Filed May 5, 1919. Serial No. 294,679. 3 Claims. (Cl. 37—61.)



1. An apparatus of the character described comprising a portable frame, an auxiliary drive shaft supported by the frame, means for driving the auxiliary drive shaft, a pair of reciprocating chopping devices operable at the front of the frame, crank shafts mounted in the frame and engageable with the said chopping devices for actuating the latter, and conveyer means disposed rearwardly of the said chopping devices, and chain drives connecting the said auxiliary drive shaft with the said crank shaft and with the said conveying means, said conveying means including shovels longitudinally spaced apart and provided with conveyers having scraper elements adapted to engage the surfaces of the shovel, means to convey the material from the foremost shovel to a point at the rear of and above the rearmost shovel, and a main conveyer disposed to receive the material from the said second shovel and the said conveying means.

1,341,006. IONIZED-CHAMBER DEVICE. CLIFFORD DUDLEY BABCOCK, New York, N. Y., assignor of one-half to John Neilson, New York, N. Y. Filed Oct. 11, 1916. Serial No. 124,939. Renewed May 23, 1919. Serial No. 299,379. 9 Claims. (Cl. 250—27.)



1. A device of the class described including a stem, a sleeve encircling a portion of said stem and supported thereby, a hot cathode within said sleeve and extending lengthwise thereof, a pair of supports carried by said stem within said sleeve and connected to opposite ends of said cathode, said supports being laterally adjustable to bring the cathode into the axis of the sleeve, an electrode encircling said cathode within said sleeve, and also supported by said stem, insulating connections for holding said electrode, sleeve and cathode substantially rigid in respect to each other at the end of the sleeve opposite to said stem, and an envelop inclosing said parts and sealed to said stem.

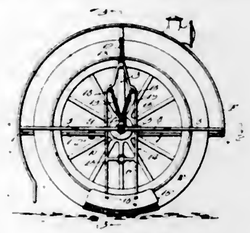
1,341,007. TELEPHONE SET. WILLIAM T. BOOTH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 30, 1917. Serial No. 177,957. 8 Claims. (Cl. 179—100.)



2. A telephone set comprising an outlet box, a front member adapted to be secured to said outlet box, a back plate removably secured to said front member, a receiver and a transmitter secured to said back plate, and means to permit the free removal of said front member and said back plate from said outlet box as a unit.

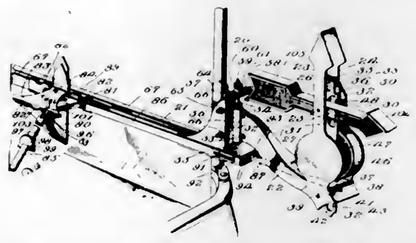
1,341,008. SIDE-SPLASH GUARD. CHARLES W. BROWN, Boston, Mass. Filed Dec. 15, 1919. Serial No. 344,843. 3 Claims. (Cl. 280—156.)

3. The combination with an automobile wheel and a fender shiftable transversely therewith; of a substantially U-shaped horizontally disposed bar having its arms secured to the fender, a second bar extending parallel with and spaced from the outer face of said bar to provid a guide slot intermediate the ends of said U-shaped bar, a substantially U-shaped frame straddling the upper side of the wheel and having its outer arm secured to said U-shaped bar, a second frame, said second frame being pivoted to and vertically slidable on the outer arm of the U-shaped frame, said second frame being disposed in said guide slot and extending to a point adjacent ground, a shield carried by the lower end of said second



frame and means connecting said frames to yieldably retain the second frame and shield in vertical operative position.

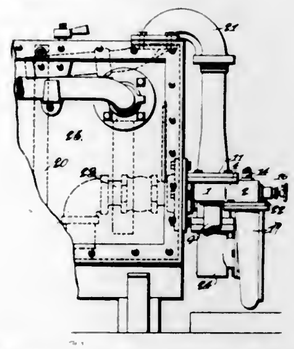
1,341,009. INDICATOR FOR VEHICLES. GEORGE H. BRUDER, Fitchburg, Mass. Filed Oct. 4, 1918. Serial No. 256,876. 9 claims. (Cl. 116—54.)



1. An indicator comprising an indicating member movable into and out of indicating position, a second indicating member and means for moving the second indicating member into indicating position upon movement of the first indicating member beyond its indicating position to unindicating position.

2. An indicator comprising an indicating member having a neutral position and reversely movable therefrom to indicating position, a second indicating member having a neutral position and movable therefrom to indicating position and connections between the indicating members for movement of the second member to indicating position upon movement of the first member in one direction to indicating position in one direction only.

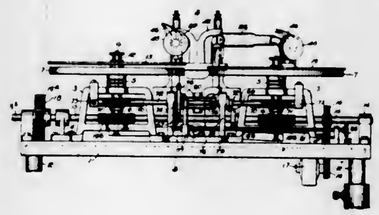
1,341,010. INJECTOR OR EJECTOR. ERNEST O. CARTWRIGHT, Springfield, Ohio, assignor to Charles F. Gardner, Springfield, Ohio. Filed Mar. 7, 1919. Serial No. 281,272. 4 Claims. (Cl. 162—1.)



1. In a device of the character described, a body having a relatively large pressure chamber, a suction duct passing through said chamber, a duct into which said

suction duct discharges, means for delivering liquid from said pressure chamber into said discharge duct around the outlet of said suction duct in the form of a surrounding envelop whereby a fluid envelop will be interposed between the sucked up material and the walls of the discharge duct, substantially as shown and described.

1,341,011. SOUND RECORDING AND REPRODUCING MACHINE. ALFONSO CORTELLA, Philadelphia, Pa. Filed Dec. 18, 1916. Serial No. 137,540. 13 Claims. (Cl. 274—10.)

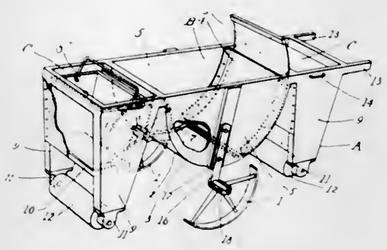


1. A sound recording and reproducing machine comprising a continuously operating record carrying member, an operating shaft therefor, a pintle for holding a record, means for locking the pintle in operative engagement with a carrying member, and a sound arm; and record shifting means including a record shifting lever having a pintle support, and a lever positioning member thereon, a lever throwing member for and integrally separate from the positioning member, and a lever tripping member actuated from the sound arm to depress the lever throwing member.

1,341,012. MATCH-IGNITION COMPOSITION. WILLIAM HEPWORTH DIXON, London, England, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1919. Serial No. 330,115. 5 Claims. (Cl. 52—5.)

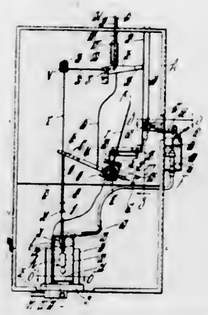
1. A match ignition composition comprising a known printing medium having incorporated therewith a material adapted to ignite a match by friction.

1,341,013. PUSHCART. PAUL GADBOIS, St. Paul, Minn. Filed Apr. 2, 1919. Serial No. 286,998. 2 Claims. (Cl. 298—2.)



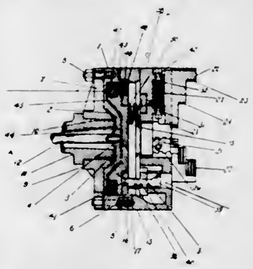
2. In a push cart, the combination with a comparatively long narrow body, and supporting wheels therefor, of an open top bin rigidly mounted between said wheels, said bin having a main curved bottom, a discharge opening in said bottom, an auxiliary bottom spaced from the main body extending from one side of said discharge opening to the top of said bin, a curved slide in the space between the auxiliary and main bottom, and adapted to be slid over said opening, said slide being operable from a point above said bin.

1,341,014. RECORDING-HYDROMETER. DANIEL S. HOLT, Mittineague, Mass., assignor to Strathmore Paper Company, Mittineague, Mass., a Corporation of Massachusetts. Filed July 14, 1919. Serial No. 310,762. 22 Claims. (Cl. 234—28.)



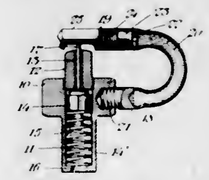
12. In an apparatus of the class described, a container to receive the fluid to be tested, a hydrometer normally free to float therein, means to periodically grip the hydrometer and hold it against flotation, a movable indicating arm, a member movable therewith, and adapted to engage the gripped hydrometer as a stop, and means to periodically move said member into and out of engagement with the hydrometer.

1,341,015. CHUCK. ALPHONSE JOSEPH LAVOIE, Montreal, Quebec, Canada. Filed Mar. 26, 1919. Serial No. 285,361. 7 Claims. (Cl. 279—119.)



1. A chuck comprising an air cylinder having its head held by a face plate screw-threaded on to a hollow lathe spindle, a chuck body completing the cylinder, an air feed pipe extending through the lathe-spindle and connected with the inlet through said head, a piston springheld against said head, jaws formed with a gripping member adjustable in relation to a base member and slidably mounted in said chuck body, said base members having transverse slots intermediate of their length, and wedging members engaging said bases in said slots and operatively connected with said piston.

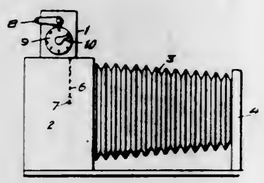
1,341,016. THERMOSTATIC VALVE. PAUL MIRK, New York, N. Y. Filed July 3, 1919. Serial No. 308,550. 2 Claims. (Cl. 236—64.)



2. An air valve having a U-shaped thermostatic device comprising a tubular member closed and externally screw-threaded at one end, and provided with an internal per-

forated seat at the opposite open end, a gasket arranged within said open end and bearing on said seat, and a terminal piece fitted into said open end and bearing against the gasket.

1,341,017. CAMERA. ROBERT H. PEARMAN, Boston, Mass., assignor to Thomas E. Steere, Providence, R. I. Filed July 31, 1919. Serial No. 314,497. 7 Claims. (Cl. 95—11.)



4. An attachment for cameras, consisting of a casing formed independent of and adapted for securement to the top of a camera, a curtain, means within the casing carrying the curtain, and means exteriorly of the casing for operating the carrying means.

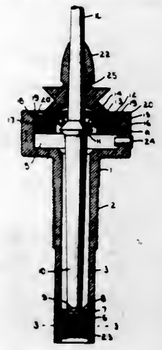
1,341,018. CALENDAR ACCOUNTING MEANS. JAMES E. PHILLIPS, Chicago, Ill. Filed Aug. 22, 1919. Serial No. 319,159. 4 Claims. (Cl. 283—2.)



1. A calendar accounting means, comprising a calendar having a plurality of detachable printed date sheets, said sheets each provided with delineated record spaces corresponding to the days of a month, wherein data of transactions for each day may be entered, and each sheet provided with appropriately designated columns for the entry of a monthly summary of the daily transactions.

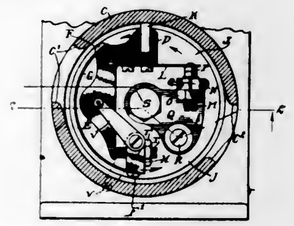
1,341,019. BALL-BEARING SPINDLE. THEODORE M. PRUDDEN, Newton, Mass. Filed May 23, 1919. Serial No. 299,141. 9 Claims. (Cl. 64—72.)

2. A ball-bearing spindle comprising a casing having a cylindrical chamber at its upper end and an open lower end, a spindle blade, a step-bearing for said spindle adjustably secured in the lower end of said casing, an upper ball-bearing for said spindle comprising a cone on said spindle blade, and a coöperating ball-retaining cup in said



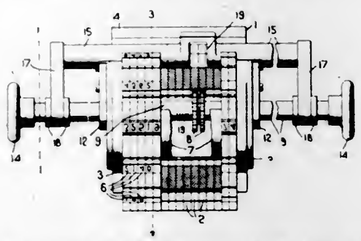
cylindrical chamber, and means for securing said cup in said chamber against removal, unless the step-bearing is retracted.

1,341,020. ROTARY CIRCUIT-INTERRUPTER. HARLIE OGDEN PUTT, Elkhart, Ind. Filed Feb. 5, 1918. Serial No. 215,442. 11 Claims. (Cl. 200—31.)



1. In a rotary circuit interrupter, the combination of a hollow cylindrical casing having one or more cam slots therein, contact carrying members mounted within said casing, one of said members having an operative contact with the inner surface of the cylindrical casing to normally maintain the contact points in closed relation, said member being pivotally mounted to permit of its being swung outward by centrifugal force during the period determined by the aforesaid cam slots whereby the rapidity of the break of contact is proportional to the effect of centrifugal force acting on the pivoted contact arm.

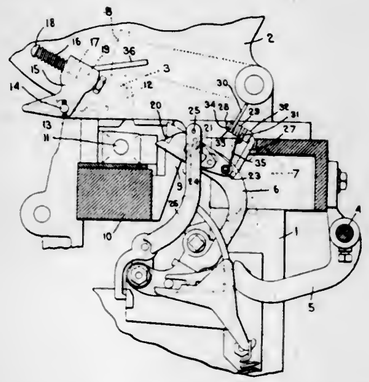
1,341,021. PRINTING-HEAD FOR MARKING-MACHINES. CHARLES F. ROBBINS, Keene, N. H., assignor to Markem Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 27, 1919. Serial No. 326,769. 4 Claims. (Cl. 101—110.)



1. In a printing head, the combination with two side members, of a type-disk-supporting member carried by said

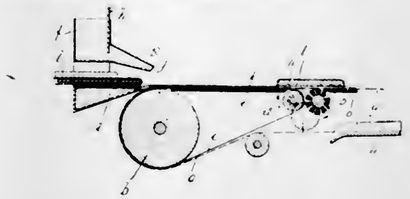
side members, a plurality of type disks rotatably mounted on said supporting member and supported thereby, selective type-disk-setting means acting on the interior of the type-disks for setting any disk independently, and type-disk-locking means associated with the setting means and acting on the exterior of the disks to lock all those except the one with which the setting means has operative connection.

1,341,022. FILLING CLAMPING AND PARTING MECHANISM FOR LOOMS. JOHN P. ROLEN, Knoxville, Tenn., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 11, 1919. Serial No. 337,309. 1 Claim. (Cl. 139—85.)



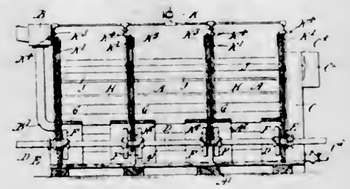
An automatic filling replenishing loom comprising a hopper for the fresh filling carriers, a filling carrier support movable to release a fresh filling carrier from the hopper, an arm secured to and projecting forwardly from said support, filling clamping and parting means including a pivotally mounted member acting when its rearward end is depressed to clamp and part the filling, a rearwardly and forwardly movable carrier for the clamping and parting means, a bracket mounted on the movable carrier, a lever pivotally mounted on the bracket and having one arm extending beneath the arm projecting from the filling carrier support when the carrier is in rearward position, and a link connecting the other arm of the lever to the forward end of the pivotally mounted clamping and parting member.

1,341,023. COATING APPARATUS. EMILE LOUIS ALFRED SAVY, Courbevoie, France. Filed Dec. 31, 1919. Serial No. 348,562. 4 Claims. (Cl. 91—3.)



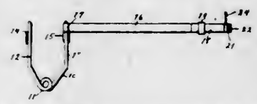
4. In combination, a confection conveying means, means to deliver a sheet of coating material upon and along said means, means to feed confections upon said sheet, whereby the confections may be coated, a second conveying means impermeable to coating material arranged to travel from said delivering means a short distance along and in under the first conveying means to carry excess coating material, and rotary means at the point where the excess material leaves the second conveying means to work it with the coating fast to and into close contact with the confections, and means beyond the rotary means to take excess coating material therefrom and carry it in under the coating previously worked into close contact with the confections.

1,341,024. MACHINE FOR THE SEPARATION OF SULFID ORES. HARRY VERNON SEALE and WILTON SHELLSHEAR, Broken Hill, New South Wales, Australia, assignors, by mesne assignments, to Minerals Separation North American Corporation. Filed Apr. 18, 1916. Serial No. 91,873. 8 Claims. (Cl. 83—85.)



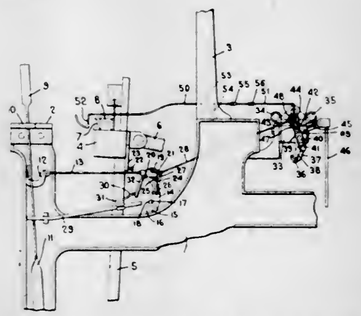
1. Flotation separation apparatus comprising a number of separating boxes, communicating passageways between the boxes below their liquid level, agitating means within the separating boxes below their liquid level and disposed in the path of pulp flow from box to box, submerged castings surrounding their zones of agitation, means for introducing air into the casings, and supplemental level-equalizing passage-ways between the separating boxes.

1,341,025. WINDOW-SHADE BRACKET. HERBERT W. SMITH, Coon Rapids, Iowa. Filed Oct. 11, 1919. Serial No. 329,894. 8 Claims. (Cl. 156—24.)



8. A window shade bracket, comprising a one-piece engaging member formed with a spring coil and spaced arms thereon, a supporting bar secured at one end to one of said arms, an L-shaped clip having one leg overlapping and slidably secured to said bar, the other leg of said clip extending outwardly, and an upstanding stud carried by the outwardly extending leg of said clip, said outwardly extending leg also being formed with means for supporting one end of a shade roller.

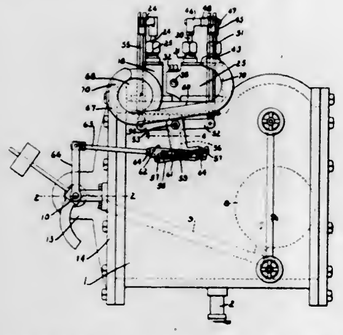
1,341,026. SHUTTLE-FEELER FOR LOOMS. JOHN TARANTO, Waltham, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 15, 1919. Serial No. 338,191. 4 Claims. (Cl. 139—51.)



1. In a loom comprising a lay and warp stop mechanism, a shuttle feeler connected to said warp stop mechanism

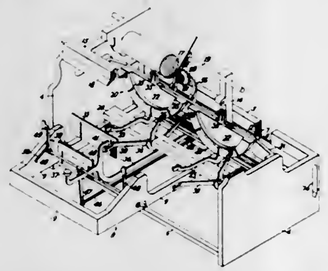
and operable upon detection of an improperly boxed shuttle to actuate said warp stop mechanism to effect a stoppage of the loom.

1,341,027. STEAM-TRAP. WILLIAM R. TEMPLETON, Boston, Mass., assignor to Templeton Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 3, 1917. Serial No. 184,339. 3 Claims. (Cl. 137—101.)



1. In a steam trap, the combination with a casing having an opening in its bottom through which water from a heating system may enter the casing and through which the water in the casing may be discharged, said casing having at its top a steam inlet, a water inlet, and an air vent outlet, a steam valve for the steam inlet, a water valve for the water inlet, and an air valve for the vent, a float in the casing, and connections between said float and said valves whereby when the float is raised the steam valve is opened and the water and air valves are closed, while when the float is lowered, the steam valve is closed and the water and air valves are opened.

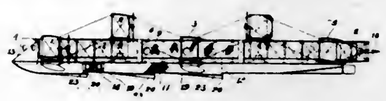
1,341,028. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 3, 1918. Serial No. 243,116. 22 Claims. (Cl. 197—5.)



13. The combination with a platen, of a plurality of type-sets, a single set of type keys, a frame supporting said keys and said platen and adapted to permit the platen to travel thereon, and means for moving said frame to render said keys effective with any one of said type-sets to print upon the platen.

1,341,029. AEROPLANE. CHARLES R. WITTEMANN, Richmond, N. Y. Filed Feb. 24, 1915. Serial No. 10,200. 10 Claims. (Cl. 244—12.)

1. An aeroplane having more than two longitudinally separated supporting units, and comprising fixed planes wherein each rearward unit is positioned relatively to the next forward unit just beyond the area occupied by the non-supporting disturbed air current which leaves said forward unit; the factors of chord, camber and angle of

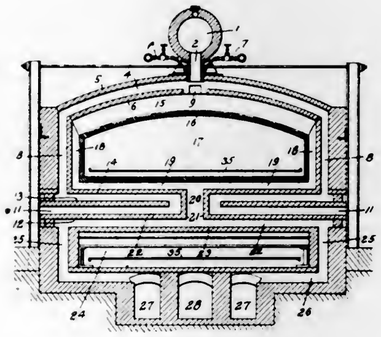


said forward unit, in normal flight of the aeroplane, determining the extent of said disturbed area; whereby said rearward unit meets approximately the same supporting pressure as said forward unit.

1,341,030. PROCESS OF PREPARATION OF LIQUID CULTURES OF NITRIFYING BACTERIA. FRANK MONTGOMERY WOOD, Chicago, Ill. Filed July 24, 1919. Serial No. 312,940. 1 Claim. (Cl. 71—10.)

The process of growing nitrifying bacteria for soil fertilization and keeping cultures of such bacteria vital, consisting in immersing crushed nodules from legumes in water, adding to the resulting mixture garden earth and well rotted manure in equal parts, and exposing the solution to a sun-warmed atmosphere until a strong emulsion is obtained, substantially as described.

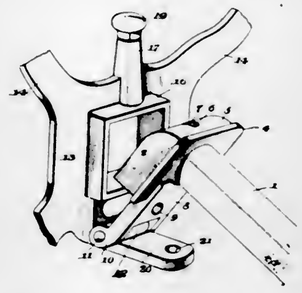
1,341,031. MUFFLE-FURNACE. WALTER O. AMSLER, Edgewood, Pa. Filed Apr. 3, 1916. Serial No. 88,462. 8 Claims. (Cl. 49—47.)



1. In a muffle furnace construction, in combination with a single open ended muffle having a plurality of laterally extending independent combustion chambers adjacent the top of the same, and formed with centrally disposed fluid inlet passages, means leading from each of the combustion chambers to an exit at a point below the muffle, means for admitting a gaseous combustible supply to said combustion chambers through said inlets above the muffle, and means for preheating air and mixing it with the gaseous supply above the muffle, said latter means including a recuperator structure disposed below the muffle.

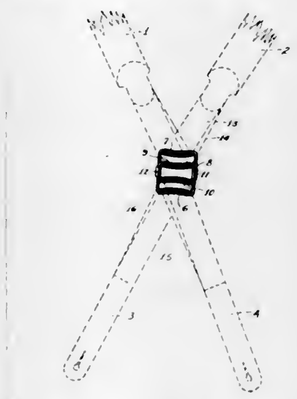
1,341,032. STEERING-WHEEL. WILLIAM H. APPLEBY, Windsor, Ontario, Canada. Filed May 19, 1919. Serial No. 298,342. 1 Claim. (Cl. 74—33.)

The combination of a steering post, a block fixed thereon, an arm carried by said block, a wheel frame hinged to said arm and adapted to fit over said block, a lug integral with said wheel frame, and a lock adapted to extend



through said arm and lug to maintain said wheel frame in an inactive position relative to said steering post.

1,341,033. SUSPENDER-LINK. JOHN F. BEAR, Mansfield, Ohio, assignor to The Ohio Suspender Company, Mansfield, Ohio, a Corporation of Ohio. Filed Sept. 15, 1919. Serial No. 323,777. 8 Claims. (Cl. 241—23.)



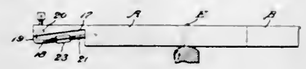
6. In a suspender link, a rectangular frame provided with depressed side portions and curved bearings which are formed in opposed relation to each other, coil springs loosely mounted thereon, an auxiliary frame provided with curved bearings and adapted to nest in the depressed portions so as to position all the bearings in substantial alinement with each other and means to fasten said rectangular frames together as and for the purpose described.

1,341,034. MILLING-MACHINE. HERBERT G. BEEDE, Pawtucket, R. I. Filed Mar. 22, 1918. Serial No. 223,923. 87 Claims. (Cl. 90—14.)



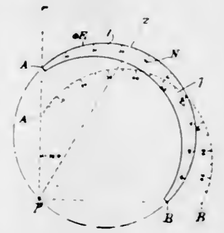
1. Milling mechanism comprising a frame, driving means on the frame, means to support the work, a milling cutter, means to actuate the cutter, and automatic means for moving the cutter in respect to the frame, the driving means and the work in at least two dimensions to shape the work.

1,341,035. TOUCH-REGULATOR FOR PIANO-KEYS. HARRY BELL and ERNST HENRY LENZ, Evansville, Ind. Filed July 11, 1919. Serial No. 310,007. 1 Claim. (Cl. 84—96.)



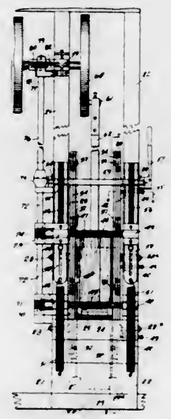
A touch regulator for piano keys comprising the combination with a piano key provided at the underside of its rear end with a recess, a support member formed as a rod having one end provided with a penetrating point driven into the wall of the inner end of the recess and having its other end bent and rebent at right angles and terminating in a penetrating point driven into the outer end of the key, and a weight threaded upon said rod and adjustable longitudinally thereon.

1,341,036. ANGLE-MEASURING INSTRUMENT. ALBERT BERG, Hönefos, Norway. Filed May 21, 1919. Serial No. 298,687. 2 Claims. (Cl. 33—1.)



1. An instrument of the class described, comprising a plate having an arcuate edge equal to a semi-circle, said edge being graduated, and having numerals adjacent certain of the graduations, each numeral corresponding to one half of the value of the angle included between lines drawn from the center of the arc of the edge respectively to one end of the semi-circle and the graduation to which the numeral is applied.

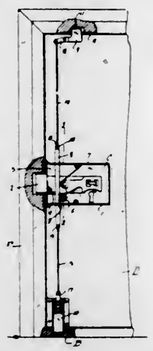
1,341,037. EXCELSIOR-CUTTING MACHINE. GEORGE W. BERRY, Wolfeboro, N. H. Filed Oct. 29, 1919. Serial No. 334,188. 2 Claims. (Cl. 144—186.)



1. An excelsior cutting machine comprising a pair of spaced apart uprights, a knife-carrying face plate movable in a vertical path between said uprights, and provided at its opposite edges with vertical runners, each presenting

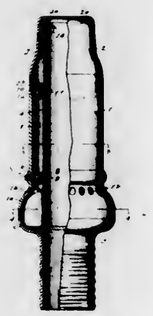
parallel outer and inner faces, and an intermediate face at right angles with the outer and inner faces, and a pair of guiding structures including elongated outer bars contacting with the intermediate runner faces, and provided with flanges contacting with the outer runner faces, and elongated inner bars adjustably secured to the outer bars and contacting with the inner runner faces, means positively securing the outer bar of one of the guiding structures to one of said uprights, so that said bar is non-adjustable, and means adjustably securing the outer bar of the other guiding structure to the other upright, to permit a wear-compensating variation of the space between the two guiding structures, the said non-adjustable bar constituting a fixed abutment against which one runner of the face plate is held by the corresponding bar of the adjustable guiding structure, whereby deviation of the face plate from a predetermined path is prevented.

1,341,038. LOCK AND LATCH. JAMES T. BICKEL, Mountain View, Mo. Filed June 23, 1919. Serial No. 306,096. 2 Claims. (Cl. 70—74.)



1. A device of the character described comprising a casing, a locking bolt including a rack slidable in said casing, a single operating member including a rack, said member extending through the casing, latches pivotally connected to each end of the operating member, a pinion rotatably supported by the casing and in mesh with each rack operated by the locking bolt whereby the single operating member is caused to unfasten the latches when the member is moved in one direction and to move said latches to their locked position when said member is moved in the opposite direction.

1,341,039. COTTON-PICKER. JAMES H. C. BOIG, Oklahoma, Okla. Filed Mar. 12, 1919. Serial No. 283,278. 3 Claims. (Cl. 56—32.)



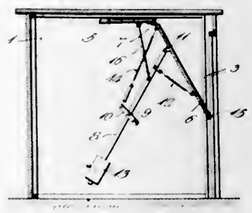
1. In a cotton picking device, a tubular casing having an annularly enlarged portion and provided with a series of air inlet ports adjacent said enlarged portion, said casing having a joint around said enlarged portion whereby to be separated at will, an inner tubular member revolubly supported in said casing and provided at one end below its point of support and, within said annularly enlarged portion, with a series of fan blades, said fan blades being interposed between said air inlet ports and the end of said device to be connected with exhaust means, and ball bearing means interposed between said inner tubular member and the inside of said casing, only at points between the intake end of said device and said inlet ports, whereby to avoid the passing of air and dust through said ball bearing means.

1,341,040. RECONSTRUCTED MILK AND PROCESS OF MAKING SAME. ALFRED W. BOSWORTH, Milton, Mass., assignor to The Boston Floating Hospital, Boston, Mass., a Corporation of Massachusetts. Filed July 1, 1918. Serial No. 242,859. 9 Claims. (Cl. 99—11.)

2. The process of preparing a reconstructed milk from non-human milk which comprises separating the fat, with the fat-soluble vitamins or food accessories, and the casein from the serum of said milk, removing substantially all of the calcium and phosphorus from the serum while preserving the vitamins or food accessories therein, and recombining the resulting serum with a portion of the fat and with protein and calcium and phosphorus in proportional amounts substantially the same as in human milk.

8. A reconstructed milk containing the same organic and inorganic elements or ingredients and in substantially the same proportional amounts, as those present in human milk, the reconstructed milk being produced by a combination of butter fat, casein and serum as separate elements, the latter having had its calcium and phosphorous content lowered to the requisite degree and the milk having an ash content of substantially 0.23 gram per 100 cc.

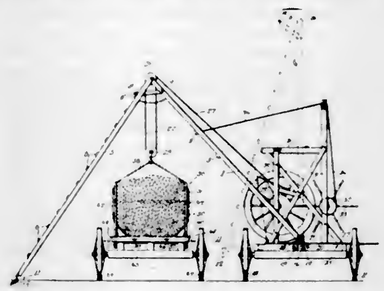
1,341,041. DISAPPEARING GARAGE-DOOR. GEORGE B. BOUGHTON, St. Louis, Mo. Filed Apr. 1, 1919. Serial No. 286,674. 4 Claims. (Cl. 20—20.)



1. The combination with a building and a door frame thereof, of vertical tracks along the sides of said frame, a door in said frame consisting of an upper and a lower section hinged together, shoes on the lower door section remote from the hinge line and engaging said tracks, levers fulcrumed in the building and pivoted at one end to said lower door section to cause the door to move upwardly and inwardly to a horizontal position when opening, and links extending from said levers to the upper door section to support the same and pivoted to both for angling the two sections with respect to each other while the door is moving from closed to open or from open to closed position.

1,341,042. MEANS FOR TRANSPORTING HARVESTED PRODUCTS. EUGÈNE DE BOYRIE, Colonia El Sitio, Ermita, Cuba. Filed Mar. 22, 1919. Serial No. 284,267. 5 Claims. (Cl. 254—145.)

1. In combination with a truck having a platform composed of longitudinal beams, a stabilizing beam pivotally supported between two longitudinal beams, a tripod pivotally secured with two legs to said stabilizing beam, the third leg portion being hingedly mounted to the upper



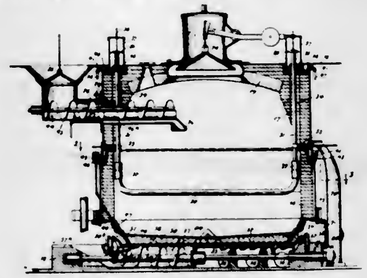
ends of said two legs, means for arranging said stabilizing beam in horizontal position, and means for actuating said tripod to rest with the third leg on the ground.

1,341,043. SNAP-FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 31, 1919. Serial No. 274,315. 7 Claims. (Cl. 24—216.)



4. A snap fastener comprising a socket having an inexpansible marginal portion and a plurality of arched spring fingers resilient substantially throughout their length extending inwardly from said marginal portion and joined at their outer ends to said portion, the inner ends of said fingers formed to engage a stud member, said marginal portion forming a housing surrounding and protecting said fingers.

1,341,044. GAS-PRODUCER. WILLIAM B. CHAPMAN, Mount Vernon, Ohio, assignor to Chapman Engineering Company, Mount Vernon, Ohio, a Corporation of New York. Filed Aug. 5, 1915. Serial No. 43,723. 31 Claims. (Cl. 48—85.1.)

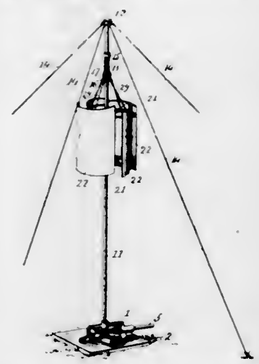


3. A gas producer, having a grate provided with a relatively large ash opening within its outline at the level of the grate, and means relatively rotatable with regard to the grate sweeping over the grate to move the ash over the opening.

22. A gas producer having a moving cruci-form ash beam and a dog to periodically stroke between the arms of the beam for the purpose specified.

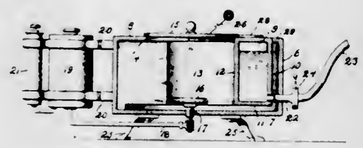
30. In a gas producer, a grate made up of radiating, overlapping plates with their overlapping parts in contact with each other, said plates having recesses between their overlapping parts to provide radiating air admitting orifices, and a beam sweeping over said grate to remove the ash therefrom.

1,341,045. WINDMILL. CHARLES FREMONT CUBERY, Topeka, Kans. Filed May 16, 1919. Serial No. 297,629. 9 Claims. (Cl. 170—33.)



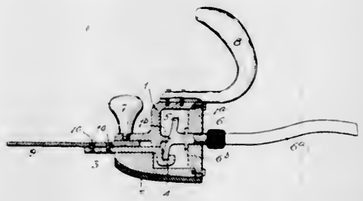
1. A windmill comprising a circular series of blades, each constituting a segment of the same cylinder to close into cylindrical form with the segments in edge to edge relation, said blades when assembled having a common upright axis of rotation and each blade being mounted to rock on an upright axis individual to it and eccentric to the axis of rotation of the assemblage of blades, means individual to the blades for imparting thereto a tendency to close into cylindrical form when rotating, and means common to all the blades and separate from the first-named means for imparting to the blades a normal tendency to open.

1,341,046. HEATING AND LIQUEFYING APPARATUS. HARRY DAVISON and WILLIAM R. TOWNSEND, Shelbyville, Ind.; said Townsend assignor to said Davison. Filed Mar. 27, 1919. Serial No. 285,531. 7 Claims. (Cl. 126—44.)



1. In apparatus of the character described, the combination with a casing, of legs for supporting the same, a container in the casing in spaced relation to the side walls thereof, a burner in the casing, an upright fuel reservoir connected to the casing at one side of the same and in spaced relation thereto, constituting a handle, and an outlet spout from the container projecting through the casing on the opposite side of the fuel reservoir.

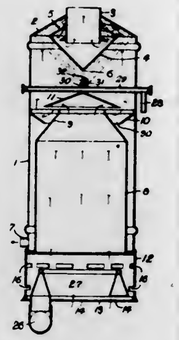
1,341,047. SCRAPING-TOOL AND THE LIKE. NELSON W. DINGWALL, Mount Vernon, N. Y. Filed Apr. 24, 1919. Serial No. 292,431. 1 Claim. (Cl. 29—76.)



In a tool of the character described, a housing having a curved sole portion to permit said housing to be canted

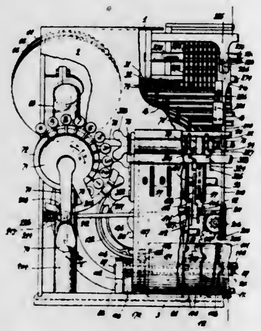
to and fro upon a supporting surface, a tool carrier mounted to reciprocate in the front end of said housing, the forward end of said tool carrier being arranged to receive a tool, the rear end of said tool carrier extending into the space within the housing, a shaft rotatably mounted in the rear of the housing, a cam on the inner end of said shaft and within the housing and in operative engagement with the inner end of said carrier and arranged to reciprocate the latter when the shaft is rotated.

1,341,048. WATER-HEATER. EMILE DREVET, Montreal, Quebec, Canada. Filed Apr. 11, 1919. Serial No. 289,471. 3 Claims. (Cl. 126—359.)



1. In a water heater, the combination of a casing; a burner in the lower portion thereof; a water supply pipe in the upper portion of the casing having means for discharging the water in spray form; a hollow, inverted-conical deflector located within the casing immediately above said water discharging means and against which the water spray is directed; means within said casing for directing the heated products of combustion toward the spray; and a tubular outlet member mounted in the top of the casing immediately above said deflector and extending downward thereinto, whereby said products of combustion, after passing through the spray, are caused to enter and pass through the deflector and to escape therefrom through said tubular outlet member.

1,341,049. CALCULATING-MACHINE. JOHN CHRISTER ENBERG, Skärsätra, Sweden. Filed Aug. 20, 1914. Serial No. 857,702. 27 Claims. (Cl. 235—58.)



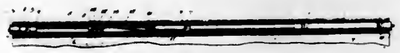
1. In a calculating machine, the combination of pairs of associated calculators, one calculator in each pair having teeth to represent tens, the other calculator having teeth to represent units, the number and postitive or negative direction of operation of the teeth in each pair of calculators being such that, when the units digit of a partial product exceeds 5, the number in the tens teeth is one in excess of the tens digit of said product and the units teeth are of negative operation and complementary in number to the units digit in question, while when the unit figure of a product is 5 or less, the numbers of both tens and units teeth in the corresponding pair of calculators are equivalent to the digits of the product and the teeth are adapted to operate in positive direction; and storing means forming an operative part of the counting gear for coöperating with said teeth and storing the said products.

1,341,050. FOLDING CHAIR. DOMINICK EVANGELIST, New York, N. Y. Filed Feb. 21, 1920. Serial No. 360,504. 2 Claims. (Cl. 155—141.)



1. A folding chair including front and rear legs, a seat pivoted to the rear legs and adapted to engage the front legs when in operative position, said front legs having longitudinal sockets in their upper ends, threaded lugs carried by the seat for engagement in said sockets, and angular clamping plates fixed to the seat in spaced relation to the lugs and having their vertical portions resiliently engaging the outer faces of the upper ends of said front legs and cause the threads of the lugs to bind against the walls of the sockets.
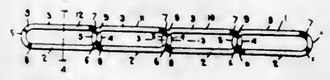
1,341,051. ADJUSTABLE SHADE-ROLLER. EDWARD LAWRENCE FLEMMING, Easton, Pa. Filed June 28, 1919. Serial No. 307,312. 2 Claims. (Cl. 156—19.)



1. In a device of the class described, the combination of a hollow, primary section provided with apertures between its ends, a piston device slidably mounted upon said primary section, said piston device comprising a body, a primary piston secured to said body and being of a reduced size compared with the body, an auxiliary piston, a flexible connection fastened near its ends to the contiguous ends of the primary and auxiliary pistons, said primary and auxiliary pistons positioned within the primary section, and fastening means extending through the apertures of the primary section and into the primary and auxiliary pistons for securing the same in adjusted positions within the primary section.

2. In a device of the class described, the combination of a hollow casing or section, said section provided with an aperture near its center, a piston device including a body and a primary piston, said primary piston extending into the hollow section, an auxiliary piston in said primary section, and means coöperating with said primary and auxiliary pistons for placing the auxiliary piston beneath or in alinement with the aperture of the primary section when the piston device is adjusted upon the primary section.

1,341,052. CHAIN. FRANCIS G. GALE, Waterville, Quebec, Canada. Filed June 15, 1916, Serial No. 103,714. Renewed Oct. 3, 1919. Serial No. 328,331. 4 Claims. (Cl. 59—78.)



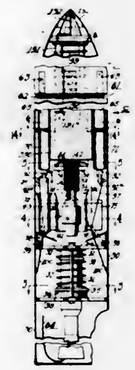
1. A chain comprising a plurality of similar interlooped links, each link presenting two parallel sides, and end portions connecting said sides, the end portions for each link being similar in shape and the sides of the links all occupying the same plane.

2. A chain comprising a plurality of similar interlooped links, each link presenting two parallel sides connected by end portions, the two end portions of each link having the same shape and the sides of the links all occupying the same plane with the link sides on each edge of the chain in alinement with each other.

3. A chain comprising a plurality of similar interlooped links, each link being symmetrical in shape and presenting two parallel sides connected by two similar end portions, said end portions being shaped to permit the sides of the links on each edge of the chain to be in alinement with each other.

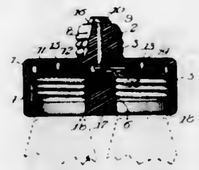
4. A chain formed of a plurality of similar interlooped links each presenting two parallel straight sides connected by ends, and each end of each link being offset first in one direction and then in the other to receive similar offset portions of the adjacent link whereby a flat chain is presented with the sides thereof all occupying the same plane.

1,341,053. MAGAZINE-ROCKET. ROBERT H. GODDARD, Worcester, Mass. Filed Nov. 12, 1917. Serial No. 201,472. 31 Claims. (Cl. 102—23.)



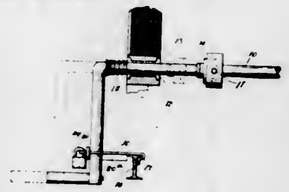
1. A magazine rocket comprising a combustion chamber and a breech block, said chamber and block being relatively movable, a plurality of cartridge containers, and means to transfer cartridges alternately from diametrically opposed containers to said combustion chamber.

1,341,054. PLURAL SOCKET. DAVID D. GORDON, Chicago, Ill. Filed Aug. 25, 1917. Serial No. 188,090. 13 Claims. (Cl. 173—335.)



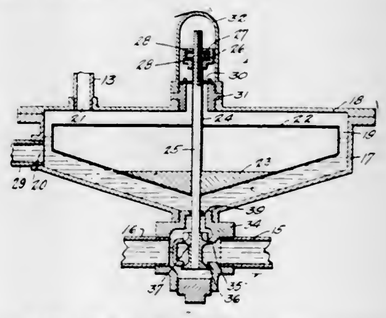
3. A plural socket for electric circuits having a common annular receptacle portion adapted to directly receive the screw threaded portion of two or more screw threaded connecting plugs.

1,341,055. AUTO-LOCK. FRANK J. HARVEY, Des Moines, Iowa. Filed Jan. 17, 1919. Serial No. 271,727. 1 Claim. (Cl. 70—130.)



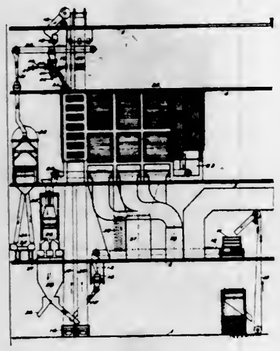
In a device of the class described; a detachable starting crank lock comprising a substantially horizontal plate, having at its rear end a curved portion adapted to receive and grip the rear upper part of an axle; said plate having a notched portion designed to receive a crank, and a portion provided with an opening for receiving a lock, a locking bar pivoted near one side of said plate having a notch designed to project over the other side of said plate, and to be locked against removal therefrom, by a lock device projected through said lock receiving opening, said locking bar having an arm designed when the arm is in locking position to extend rearwardly and engage an axle for preventing the removal of said plate therefrom, and designed when the locking bar is moved to unlocked position to swing away from the axle.

1,341,056. GAS-HANDLING APPARATUS. CHARLES W. HINMAN, Winchester, Mass. Filed Apr. 1, 1918. Serial No. 226,011. 5 Claims. (Cl. 73—1.)



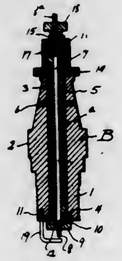
1. In a gas handling apparatus, a casing containing a plurality of chambers, the casing being adapted to contain liquid and the chambers being in communication below the normal level of the liquid, different chambers being subjected to different pressures of the gas, and means responsive to variations of pressure of the gas in one of the chambers for maintaining the liquid at the predetermined level in said chamber.

1,341,057. METHOD OF PREPARING AND PACKING RAISINS. THOMAS B. HUNTER, San Francisco, Calif. Filed Jan. 26, 1920. Serial No. 354,130. 5 Claims. (Cl. 146—5.)



1. The process of preparing raisins from raisin grapes which consists of causing them to pass through a current of extra heated air, thence through a longer path in a current of hot air and thence for a relatively short path in a current of cold air.

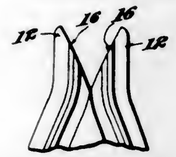
1,341,058. SPARK-PLUG. EDWARD M. JOHNSON, Blytheville, Ark. Filed Apr. 5, 1919. Serial No. 287,759. 1 Claim. (Cl. 123—169.)



A spark plug comprising a shell having a bore extending therethrough, an insulating sleeve extending through the bore and of a length to extend beyond the shell, primary electrode disposed through the sleeve and extending beyond opposite ends thereof, clamping members threaded upon the opposite end portions of the primary electrode and coacting with the sleeve and shell for maintaining the primary electrode and sleeve in assembled position relative to the shell, the sleeve at the firing end of the plug being provided with an extension, the bore of the plug at the firing end being enlarged, an insulating washer surrounding the extension of the sleeve and fitting within the enlarged portion of the bore, the members coacting with the firing end of the plug being cup-like and having its side flange inwardly directed and contacting directly with the washer, said member being of a diameter whereby said flange contacts with the washer outwardly of the bore of the shell, and a secondary electrode carried by the shell and coacting with the primary electrode.

1,341,059. INSOLE AND METHOD OF MAKING SAME. FRED N. LA CHAPELLE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 2, 1918. Serial No. 256,494. 17 Claims. (Cl. 12—146.)

9. The method of making pointed toe insoles which includes the steps of shaping a blank to produce a square toe end, providing a sewing rib at each side of the blank both of which extend across said end, removing the central portion of said end, drawing its sides together, and securing said sides when in butted relation.



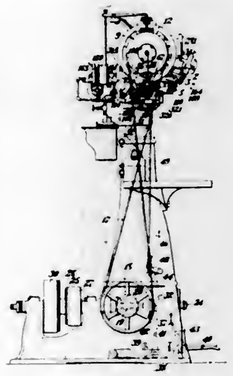
16. An insole blank having its forepart shaped for a pointed toe by means of side edges converging toward its toe end, except that the tip of the toe is provided with lateral extensions having edges extending at an angle to the edge of the fore part and which, together with the material therebetween form a squared toe end.

1,341,060. CONTAINER. GEORGE A. LE FEVRE, Richmond Hill, N. Y., and WARREN B. HUTCHINSON, Newark, N. J., assignors, by direct and mesne assignments, to Paxflat Barrel and Crate Corporation, a Corporation of New York. Filed June 26, 1918. Serial No. 241,950. 3 Claims. (Cl. 217—44.)



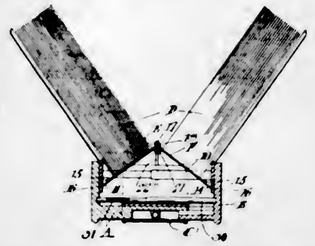
1. A container comprising a series of slats spaced apart, hoops connecting the slats so as to form a belt-like structure, said hoops being bent bodily inward between adjacent slats so as to abut with the slat edges and form spacing mediums, and suitable heads for the containers.

1,341,061. SHOE-SEWING MACHINE. ALBERT LATHAM, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 26, 1912, Serial No. 738,674. Renewed Sept. 26, 1917. Serial No. 193,389. 36 Claims. (Cl. 112—46.)



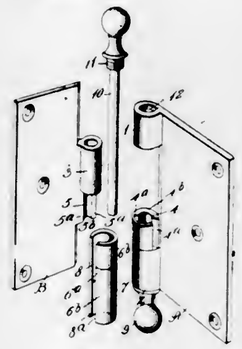
1. A sewing machine, having, in combination, stitch forming mechanism, welt severing and holding devices, and mechanism automatically thrown into operation upon stopping the machine for actuating the devices to sever and hold the welt.

1,341,062. LEAF-PROJECTING DEVICE FOR LOOSE-LEAF BINDERS. WILLIAM JOHN MCCARTHY, Ottawa, Ontario, Canada. Filed Mar. 25, 1919. Serial No. 285,004. 6 Claims. (Cl. 129—13.)



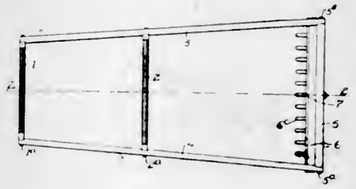
1. In a loose leaf binder, binding members, links hinged to the members, and plates hinged to the links and provided with hook shaped engaging ends, the said plates being designed to open outwardly and adapted when the ends are interengaged to provide oppositely inclined supporting surfaces for sheets.

1,341,063. HINGE. ULYSSES G. MCQUEEN, New York, N. Y. Filed Apr. 24, 1917. Serial No. 164,202. 2 Claims. (Cl. 16—107.)



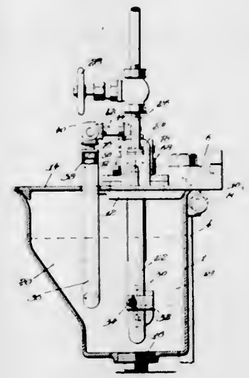
1. A hinge comprising a pair of leaves slidable one over the other in flat contact, knuckles on one leaf, a knuckle on the other leaf, a knuckle-receiving-housing interposed between the knuckles of one leaf and receiving the knuckle portion of the other leaf and concealing the same, and means for holding one of said leaves against sliding movement when the hinge is opened, the knuckle on said other leaf being spaced from one of the knuckles of the first leaf as and for the purpose specified.

1,341,064. CULTIVATOR. EMIL MARQUARDT, Lemon Grove, Calif. Filed Oct. 5, 1917. Serial No. 194,835. 1 Claim. (Cl. 97—41.)



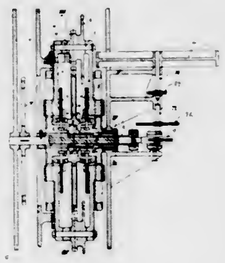
In a cultivator of the class described, a pair of spaced apart longitudinal beams, a combined handle and draft member mounted between said beams at their ends, a hand member mounted between said beams intermediate their ends, an attachment support secured between the rear ends of said beams provided with a central hole and a cultivator attachment provided with a central hole conforming with the hole in said support and a bolt fitting in said holes, whereby said support and said attachment are rigidly secured together.

1,341,065. WAX-THREAD SEWING-MACHINE. WILLIAM C. MEYER, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 7, 1916. Serial No. 76,721. 8 Claims. (Cl. 112—42.)



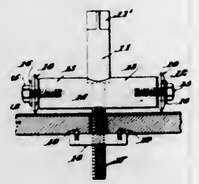
1. A thread waxing device, having, in combination, a wax receptacle comprising a thread waxing chamber and a wax supply reservoir communicating therewith, means for guiding the thread through the thread waxing chamber, a heating device relatively remote from the supply reservoir for heating the wax in the thread waxing chamber to a relatively high temperature, and a second heating device located at the supply reservoir for heating the wax in the wax supply reservoir to a lower temperature.

1,341,066. MACHINE ATTACHMENT. WILLIAM H. MORAN, Wilkinsburg, Pa. Filed May 28, 1919. Serial No. 300,359. 11 Claims. ((Cl. 264—9.)



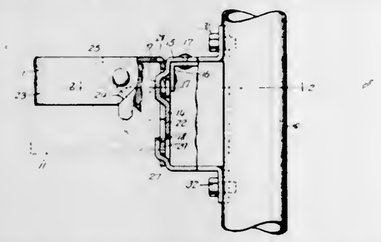
1. An attachment for a machine or machine part, consisting essentially of a prime motor, two members rotary on a common axis, both subject to impulsion by said prime motor, and one adapted to be made additionally subject to impulsion by the machine or machine part to which attachment is made, and a third member coaxial with the two first named and movable axially in response to variations in the relative speed of the two rotary members first named, substantially as described.

1,341,067. CUTTING-TOOL. JOSEPH R. NAUGLE, Roxbury, Mass., assignor to Standard Thermometer Company, Portland, Me., a Corporation of Maine. Filed Dec. 8, 1919. Serial No. 343,422. 1 Claim. (Cl. 164—82.)



A cutting tool for cutting holes in metal, wood and the like, having a stock, a cutter mounted on the stock, a threaded end of the stock extending through a hole in the material to be cut and a threaded nut provided with means for engaging the opposite side of the work to hold the nut from rotation so that as the tool is turned to cut the hole it is fed forward into the work.

1,341,068. CORNER-POST FASTENER. MORRIS B. OKUN, Chicago, Ill., assignor to George W. Zimmer, Chicago, Ill. Filed Dec. 22, 1917. Serial No. 208,339. 6 Claims. (Cl. 5—55.)



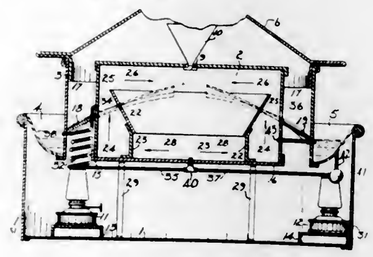
1. Means for fastening the side rail of a bed to the bed post comprising two stamped metal elements, one of said elements being box-like in form and having a projection and a finger on its vertical front face, and the other of said elements having a flat face adapted to engage the vertical face of the box-like element, said flat face having a bayonet slot and cross piece to accommodate and interlock with said projection and finger.

1,341,069. PIPE AND FLANGE WRENCH. ELMORE W. OER, Minneapolis, Minn., assignor of one-half to William J. Anthony, Minneapolis, Minn. Filed Sept. 16, 1918. Serial No. 254,165. 2 Claims. (Cl. 81—68.)



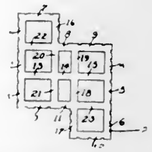
1. A wrench of the kind described comprising a lever, intermediate and outside plates rigidly secured to said lever and provided with reversely oblique serrated edges, the serrated edges of said outer plate projecting beyond the serrated edge of said inner plate, a pair of links pivotally connected to said plates with their free ends projecting beyond the said plates so that the said links may swing from one side to the other of the head made up of said serrated plates, a chain connected to the free ends of said links, and means for anchoring the free portion of a chain to said lever.

1,341,070. WINTER HOG-WATERER. ALLAN K. PRUDEN, St. Paul, Minn. Filed July 29, 1918. Serial No. 247,342. 2 Claims. (Cl. 119—73.)



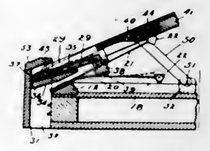
1. In a winter hog waterer the combination of a water tank, an outer shell surrounding said water tank and spaced therefrom leaving an annular passage way there between, heating means positioned adjacent to said annular passage way, a deflector positioned in said annular passage way and adapted to deflect heat from said heating means to partially encircle said tank, a hollow frusto-conical separator positioned within said water tank having the smaller end thereof below the larger end to determine a circulation of water within said tank so water in said tank will be deflected toward the outer wall thereof as it rises between said wall and said separator.

1,341,071. HOLLOW TILE. RICHARD S. REQUA, San Diego, Calif. Filed Sept. 18, 1918. Serial No. 254,536. 4 Claims. (Cl. 72—41.)



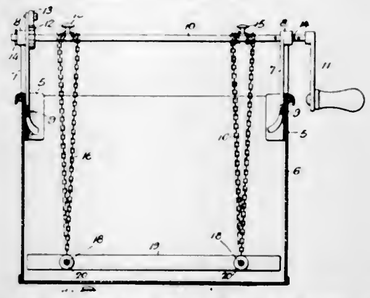
1. A tile unit comprising a plurality of hollow offset body parts, angularly-related webs in such body parts in alinement with and forming direct line continuations of the normally outer wall section of another body part, whereby such unit may be divided along the line of any web to form such webs as an outer wall of a special form tile, such division including a normally outer wall of the tile unit.

1,341,072. KEYED ZITHER. GEORGE LEE REYNOLDS, Boston, Mass., assignor to The Phonoharp Company, East Boston, Mass., a Corporation of Maine. Filed May 13, 1918. Serial No. 234,085. 9 Claims. (Cl. 84—116.)



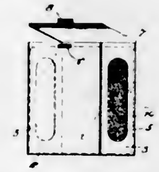
1. The combination with a zither having a string bridge, of a hammer support secured on the bridge, and spring hammers having their fixed ends attached to said support.

1,341,073. CLOTHES-BOILER. NATHAN RUBENSTEIN, New York, N. Y. Filed Mar. 28, 1919. Serial No. 285,748. 2 Claims. (Cl. 68—30.)



1. In clothes boilers, the combination of a boiler, removable reinforcing saddles comprising a semi-circular plate with a flange enveloping the upper edges of the ends of said boiler, a shaft journaled in the saddles, a slatted false bottom in the boiler, chains from the sides of the said bottom and adapted to be wound about the shaft, and a ratchet wheel and pawl for the shaft.

1,341,074. MATCH-BOX. WILLIAM RUMBLE, Jr., Cranford, N. J. Filed Jan 28, 1919. Serial No. 273,672. 2 Claims. (Cl. 206—33.)



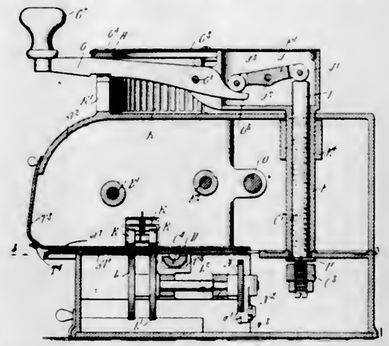
1. A match box or holder for the shuck of an ordinary safety-match box, adapted by reason of its relative flatness to be readily carried in one's pocket, comprising a box-like structure having the form of a rhomboid in cross section with an opening in at least one of the narrow sides thereof for the exposure therethrough of the striking surface of the inserted shuck, and a lid for the structure the shuck being retained in its position in the structure by reason of the frictional resistance thereof with the walls of the holder due to the spring of the shuck effected by the partial deformation thereof.

1,341,075. CLOSURE FOR BOXES AND BOTTLES. CARMINE J. SALVIOLO, Brooklyn, N. Y.; Michael J. Salviolo executor of said Carmine J. Salviolo, deceased. Filed Nov. 6, 1919. Serial No. 335,987. 5 Claims. (Cl. 215—34.)



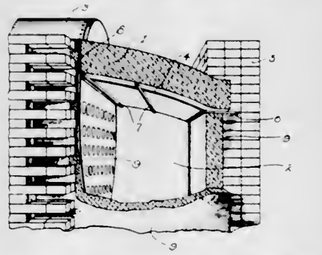
1. In a closure, the combination of a container, a cap having a perforation, a lid to cover the perforation, a finger penetrating the cap, and a spring at the lower end of the finger and within the container.

1,341,076. CHECK-PRINTING MACHINE. CHARLES H. SAMPSON, Rochester, N. Y., assignor, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 3, 1912. Serial No. 675,184. 59 Claims. (Cl. 197—6.4.)



17. In a printing machine, the combination with a frame having a base portion and a portion overhanging the base portion and supported by the latter at one side of said base portion, of a work support on the base portion, a printing member rotatable on the overhanging portion having words or expressions thereon of different lengths, a platen movable through an opening in the work support to engage the printing member, an operating member for the platen, a feed wheel operating through the work support to feed the work over the work support, a gage wheel arranged above the base portion and geared to the printing member, a member for coöperation with the gage member, having a pawl and ratchet connection with the feed wheel, and a resilient connection between said member and the operating member for the platen.

1,341,077. METHOD OF CONSTRUCTING ONE-PIECE FIRE-BRICK ARCH. WILLIAM A. L. SCHAEFER, Chicago, Ill., assignor to Jointless Fire Brick Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1919. Serial No. 288,742. 8 Claims. (Cl. 25—157.)

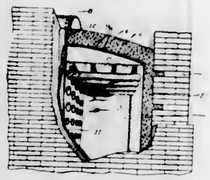


1. The method of constructing a one-piece fire-brick arch which consists in arranging a bar or pipe through a boiler setting, anchoring the opposite ends of said bar or pipe in the walls of said boiler setting, then anchoring one end of a metallic sheet or plate in one of the walls of the boiler setting, supporting the opposite end of said sheet or plate upon said bar or pipe and then installing a mass of plastic fire-brick material upon said metallic sheet in the form of the desired arch.

1,341,078. METHOD OF CONSTRUCTING ONE-PIECE FIRE-BRICK ARCH. WILLIAM A. L. SCHAEFER, Chicago, Ill., assignor to Jointless Fire Brick Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1919. Serial No. 288,744. 6 Claims. (Cl. 25—157.)

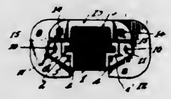
1. The method of constructing a one piece fire brick arch which consists in extending a plurality of joists be-

tween the head of the boiler and a wall of the boiler setting, supporting one end of said joists in the longitudinal flue passages of the boiler, anchoring the opposite ends of said joists in said boiler setting wall, arranging a second group of joists transversely across said first joints, arranging a pair of centering timbers having their upper



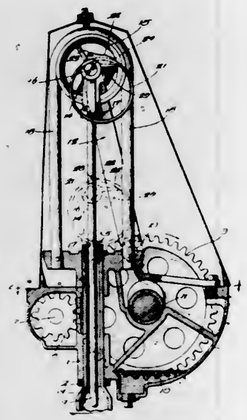
edges shaped to the arched form desired for the bottom of the arch transversely across the upper edges of said second group of joists, arranging a plurality of slats transversely across said centering timbers to form a substantially continuous plastic fire-brick supporting sheet and then installing a mass of plastic fire-brick material upon said sheet in the form of the desired arch.

1,341,079. TRACTION-LUG FOR VEHICLES. VALENTINE SCHILDWACHTER, Peoria, Ill. Filed Feb. 17, 1919. Serial No. 277,670. 7 Claims. (Cl. 152—2.)



1. In combination with a wheel felly and its tire, a member permanently attached to the felly at each side, a separate plate for attachment to each member, and a rigid ground engaging device extending across the tire attached at its ends to the parts, said parts each having a slot, means carried by the device to engage in the slots, said device being free to move radially with respect to the parts.

1,341,080. LUBRICATING MECHANISM. DANIEL R. SCHOLES, Chicago, Ill., assignor to Aeromotor Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1919. Serial No. 343,286. 18 Claims. (Cl. 184—4.)



9. Lubricating mechanism including a source of lubricant; a rotating element dipping within the lubricant; a rotatable lubricant conveyer engaging the portion of the rotating element that dips within the lubricant to transfer lubricant to and turn the lubricant conveyer; and a support loosely holding the lubricant conveyer, this support and the aforesaid rotating element being capable of relative movement bodily to an extent that will permit continuance of such relative movement while the conveyer and the aforesaid rotating element are in engagement, the place of this engagement being upon that side of the vertical line including the center of gravity of the conveyer which will enable gravity to coöperate with the rotating element in rotating the conveyer.

1,341,081. METHOD AND MEANS FOR FORMING AND BAKING CUP-PASTRY. LEE C. SHARP, Plattsmouth, Nebr. Filed July 31, 1919. Serial No. 314,400. 7 Claims. (Cl. 107—54.)



3. The method of producing pastry cups in a mold shaped to form the exterior of the cup, consisting in introducing a quantity of batter into the mold, rotating the mold to cause the batter to flow uniformly over the interior surface thereof, and heating the mold to bake the batter upon said surface.

1,341,082. WINDOW FOR AUTOMOBILE-CURTAINS. JOHN MARTIN SIMMONS, Boise, Idaho. Filed Aug. 14, 1918. Serial No. 249,815. 10 Claims. (Cl. 296—145.)



1. The combination with a curtain having an opening therethrough, of a window frame about the opening and formed with a marginal pocket for receiving the edge portion of a light transmitting pane and less extensive circumferentially than the frame, and a flexible connection between the frame and curtain along that portion of the frame opposite the pocket.

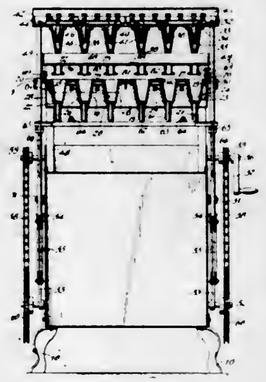
1,341,083. COMBINATION TABLE AND RECEPTACLE. JOHN SOKAČ and ANDREW SEMKO, Kingston, Pa. Filed Feb. 27, 1920. Serial No. 361,823. 2 Claims. (Cl. 45—116.)

2. A combined table and receptacle embodying hinged table sections each having depending side and end boards, means carried by the end boards for holding the table sections alined, supporting legs hinged to each section adapted to be folded to a point within the depending side and end boards, the hinged connection of one leg of each table section embodying a link member adapted to assume



a different position when the legs are folded, and central boards depending from the table top sections at each side of the hinge connection, coöperating with the side and end boards to form a closure.

1,341,084. MACHINE FOR BAKING ICE-CREAM CONES, &c. PETER H. F. SPIES, Buffalo, N. Y., assignor to The Sebco Company, Incorporated, Buffalo, N. Y., a Corporation of New York. Filed Sept. 7, 1917. Serial No. 190,111. 1 Claim. (Cl. 107—66.)

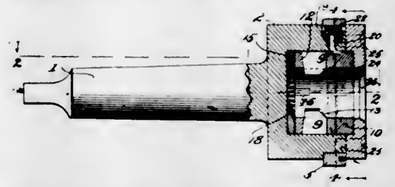


A baking machine comprising a lower female die having a tubular body, an open upper end and a guide opening in its lower end, a vertically movable ejector comprising a stem sliding in said guide opening and provided at its upper end with a disk which normally extends across the lower end of said body, the upper surface of said disk having a central elevated part and a depressed marginal shoulder, and a male die adapted to move into and out of said female die and provided on its lower end with an annular downwardly projecting bead and an elevated central part which coöperate with the lower end of the female die and the marginal shoulder and elevated part of the disk to produce an annular rim on the lower end of a cup-shaped receptacle which is baked in the machine.

1,341,085. AUTOMATIC REVERSIBLE DRIVING-CHUCK. RALPH P. TARBUTTON, Lima, Ohio. Filed Mar. 29, 1919. Serial No. 286,058. 1 Claim. (Cl. 279—66.)

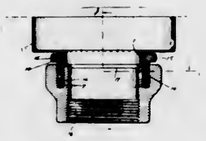
In a device of the class described, the combination of a head provided with a central hollow body having eccentric faces and with oppositely-positioned bearings constituting cam surfaces, a holder in said head and provided with slidable jaws, said jaws adapted to engage at their

outer ends said cam bearings for forcing the jaws to their furthermost inner position, and spring-pressed pins car-



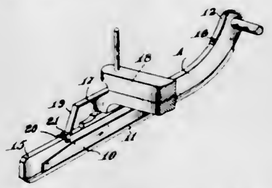
ried by the head and alternately engaging the holder for fastening the holder against independent rotary movement with respect to the head in different directions.

1,341,086. PIPE CONNECTION. PETER PAUL THEISEN, Chicago, Ill. Filed Dec. 7, 1916. Serial No. 135,678. 2 Claims. (Cl. 285—167.)



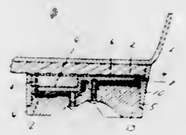
1. In a device of the class described, a countersunk roof drain box and depending pipe section, in combination with a tubular connecting member having an annular groove in one end for the reception of one end of said pipe section, said pipe end being adapted to fit snugly against one wall of said groove; a transversely extending flange provided on said end of said pipe section; and an annular locking member in threaded connection with the other wall of said recess and engaging over said flange of said pipe for locking said pipe and connecting member together, substantially as described.

1,341,087. SLED SHOE AND RUNNER PROTECTOR. JOSEPH THIBAULT, Prince Albert, Saskatchewan, Canada. Filed Dec. 23, 1919. Serial No. 346,926. 3 Claims. (Cl. 280—12.)



3. The combination with a runner, of a U-shaped protector designed to embrace the runner for a greater part of its length, and a cast iron shoe secured to the protector.

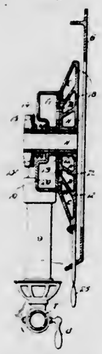
1,341,088. HEEL. ALEXANDER TWARDOWSKI, Detroit, Mich. Filed July 28, 1919. Serial No. 313,814. 4 Claims. (Cl. 36—42.)



1. In a shoe, a tread member comprising a plate secured to the bottom of the shoe and having struck-out tongues, a hollow body member having an apertured inner wall, said

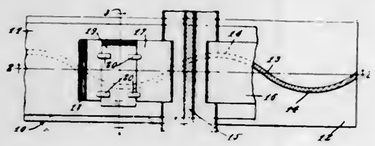
tongues engaging in the apertures and being clenched over said wall for securing said hollow body member to said plate, and a member in said hollow body member and extending beyond its outer ends.

1,341,089. GAS-BURNER. EDWARD J. VOLK, Cleveland, Ohio. Filed June 27, 1918. Serial No. 242,186. 4 Claims. (Cl. 158—117.)



1. A gas burner comprising upper and lower hollow sections rotatable with respect to each other, the sections having a series of openings more or less of which may be registered with each other by turing one of the sections, and the upper section having partitions therein forming chambers communicating with respective openings, and also having jet holes.

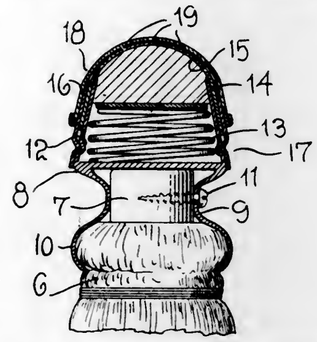
1,341,090. RAILROAD-TIE. MAHLON W. WAMBAUGH, St. Louis, Mo. Filed Jan. 2, 1920. Serial No. 349,033. 2 Claims. (Cl. 238—65.)



1. In a combination with a metallic tie having a lug formed integral therewith, and having a serrated upper portion, a rail fastening means comprising a removable clip having a serrated surface coöperating with the first mentioned serrated surface, the said clip having a serrated upper surface, a wedge member extending transversely of the tie and having a serrated surface coöperating with the upper serrated surface of the removable clip, and means extending through the tie and movable clip for securing the removable clip and wedge to the tie.

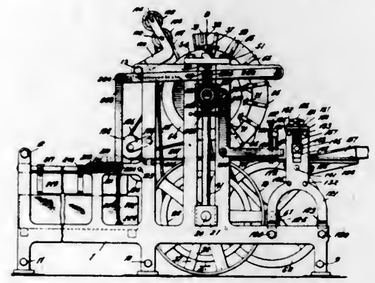
1,341,091. CLEANING ATTACHMENT FOR WHISK-BROOMS. HARRY S. WEBSTER, Van Wert, Ohio. Filed Dec. 14, 1918. Serial No. 266,755. 1 Claim. (Cl. 15—30.)

The combination with a support, a cup having its lower portion provided with a tubular part engaging said support, said cup being of frusto-conical form, the lower portion of the wall of which has an annular groove, a soap cake in said cup, a disk adjacent the under surface of the soap cake, a helical spring interposed between the disk and the bottom of the cup urging pressure on the disk, whereby the upper end of the soap cake is protruded beyond the marginal edge of the upper end of the cup, a piece of cloth material fitted over the protruded end of the soap cake and engaging the exterior surface of the wall of the cup, a clamping band fitting telescopically over the cloth material, and provided with an interior bulged annular bead engaging said groove, thereby holding the band in place and clamping the material in its applied position, said clamping band being of frusto-conical form correspondingly to the cup and adapted to fit thereover, the interior bulged annular head adapted to engage with the



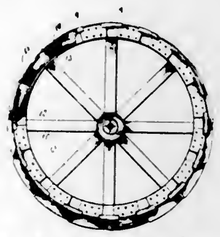
cloth material as the band is in the act of engaging around the cup, so as to draw the cloth material tight and smooth over the soap cake.

1,341,092. MACHINE FOR MAKING WAISTBANDS. GEORGE W. WEISS, New York, N. Y. Feb. 17, 1919. Serial No. 277,446. 24 Claims. (Cl. 270—21.)



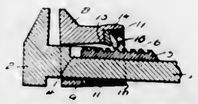
1. In a machine for making waist bands, a two-part quadrant for feeding, measuring and cutting the bands in predetermined lengths, substantially as shown and described.

1,341,093. MUD-CLEANING MECHANISM FOR TRACTOR-WHEELS. HARTWELL L. WILLIAMS, Beaumont, Tex. Filed May 19, 1919. Serial No. 298,117. 7 Claims. (Cl. 21—207.)



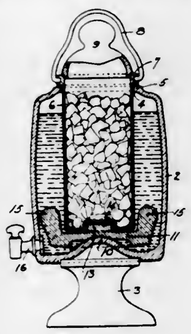
1. A mud cleaning mechanism for cleated tractor wheels including a loose rim, of somewhat greater circumference than and adapted to fit loosely around the tractor wheel to which it is applied, operatively connected to the tractor wheel so as to revolve with it, and having openings covered by slidingly connected sliding plates, said plates having slots to receive and allow the traction cleats to protrude for traction, means for cleaning mud from the loose rim surface as the tractor wheel and loose rim revolve.

1,341,094. WRENCH. HENRY BUHL WINTER, Punxsutawney, Pa. Filed Sept. 11, 1918. Serial No. 253,534. 1 Claim. (Cl. 81—147.)



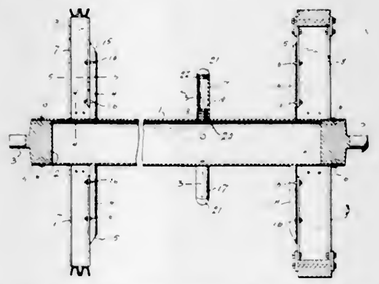
A wrench comprising a shank having at one end a fixed jaw, a rack bar mounted to slide on the shank toward and from the fixed jaw, means for moving the rack bar in either direction, a movable jaw having a bearing engaging over the shank and the rack bar and having a tooth for engaging the teeth of the rack bar and moved to release position by tilting the movable jaw, a spring for yieldingly holding the tooth in engagement with the teeth, a spring-pressed cam lever mounted in the movable jaw and movable into operative and inoperative position by the movement of the movable jaw from and toward the fixed jaw, said cam lever when in operative position adapted to contact with the teth during the movement of the movable jaw away from the fixed jaw.

1,341,095. LIQUID-DISPENSER. ARCH K. WOOD, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1919. Serial No. 322,849. 5 Claims. (Cl. 259—50.)



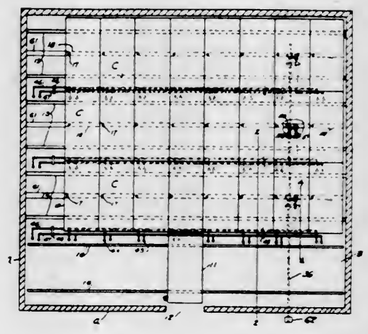
1. In a liquid cooler, the combination of a liquid containing vessel, an agitator in said vessel resting on the bottom thereof, an ice containing vessel within said first vessel, and connections between the lower end of said ice vessel and said agitator whereby when said ice vessel is turned said agitator is likewise turned.

1,341,096. BULL-WHEEL. PATRICK YORKE, Washington, Pa. Filed Sept. 27, 1919. Serial No. 326,953. 3 Claims. (Cl. 242—117.)



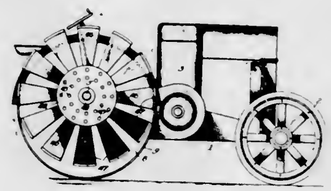
1. A bull wheel including a shaft, angle plates arranged in pairs and secured to said shaft and projecting outwardly therefrom, and I-beam spokes cut away at one side and adapted to be slipped in between said angle plates and secured thereto, substantially as described.

1,341,097. GARAGE. GEORGE H. YOUNG, St. Paul, Minn., assignor to Automatic Storage Platform Company, a Corporation of Minnesota. Filed July 11, 1919. Serial No. 310,049. 9 Claims. (Cl. 104—48.)



1. A storage structure, comprising, in combination with its floor, a plurality of carriages on said floor arranged in transverse and longitudinal rows, the carriages of said transverse rows being movable transversely a distance equal to the width of one of said carriages to facilitate distributing the carriages and providing a longitudinal lane down which a storage load may be moved.

1,341,098. TRACTOR. JOHN ZIMARIK, Akron, Ohio. Filed Mar. 1, 1919. Serial No. 280,141. 27 Claims. (Cl. 97—71.)



1. Propelling mechanism for tractors and similar vehicles comprising a supporting wheel, a disk, a plurality of blades rigidly attached thereto, and means for changing the relative position of the supporting wheel and the disk to move the blades into and out of operative position.

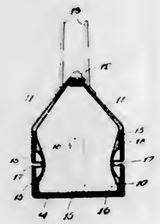
6. A tractor construction, comprising a supporting wheel, a hub on the wheel, a housing within the hub, a traction disk eccentrically mounted on the housing, and means for rotating the housing to raise and lower the mounting of said disk.

17. In a tractor construction a supporting wheel and a tratcion disk, blades rigidly secured to the disk, and means for raising and lowering said disk with respect to the wheel.

18. In a tractor construction, a supporting wheel, a traction disk, means for moving said traction disk to force the same into the ground or remove it therefrom without changing the outer circumference of the disk.

25. In a tractor construction, a smooth faced supporting wheel, a rigid bladed disk at one side of the wheel, means for raising and lowering the disk, and a common driving shaft for the wheel and the disk.

1,341,099. HANDBAG, VALISE, &c. LOUIS ABRAMSON, Brooklyn, N. Y. Filed Aug. 10, 1918. Serial No. 249,229. 4 Claims. (Cl. 190—44.)

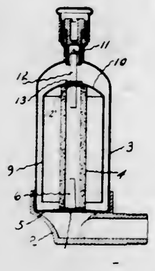


1. A compartment having a body portion of flexible material infolded to provide for extra height when the infolded portion is extended, a lining on the interior of said body portion, means held within said lining and bridging the infolded portion for normally keeping the latter unextended, said means being operative by the weight of the material in the compartment to extend said infolded portions to thus increase the height of the compartment.

1,341,100. RUST-PROOFING COMPOUND. WILLIAM H. ALLEN, Detroit, Mich. Filed Nov. 18, 1918. Serial No. 262,986. 4 Claims. (Cl. 148—6.)

1. The combination of substantially one part of ferric oxid, substantially three parts of ferrous oxid and substantially the equivalent of sixty parts of commercially pure phosphoric acid, substantially for the purpose set forth.

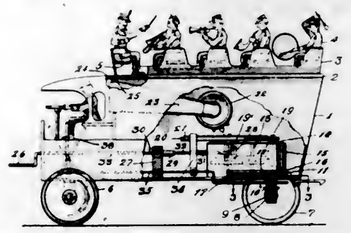
1,341,101. AIR-VALVE DEVICE. ALLAN J. BEATON, New Britain, Conn., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 9, 1919. Serial No. 329,447. 3 Claims. (Cl. 137—122.)



3. An element for use in an air-valve device, having a part extended through it, a portion of the extending part having a rigid portion fitted substantially against one surface of the element, and the extending part being also shaved to fit against the other surface of the element to hold the extending part in rigid relation with the element.

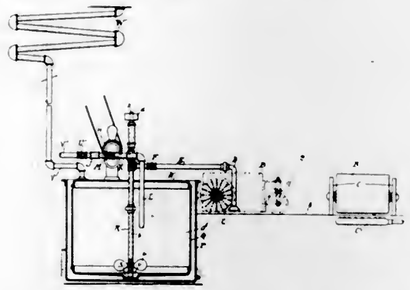
1,341,102. TOY BAND-WAGON. CHARLES H. BELKNAP, Brooklyn, N. Y. Filed July 2, 1919. Serial No. 308,071. 7 Claims. (Cl. 46—45.)

1. A toy band wagon comprising a body a cover hinged to the top of the body, a plurality of figures indicating a band arranged on said cover, a talking machine arranged in said body, traction wheels for said body, and a single



driving member for driving said traction wheels and said talking machine.

1,341,103. PROCESS OF MANUFACTURING VARNISH. CLARK H. BENNETT, Chicago, Ill. Original application filed May 18, 1916, Serial No. 98,283. Divided and this application filed Jan. 20, 1919. Serial No. 271,954. 2 Claims. (Cl. 134—26.)



2. In the manufacture of varnish, the herein described process consisting in cooking a quantity of varnish "body" remote from a blending closure, in transferring the heated body from the cooking point to and into said closure, in introducing upon the body in the closure a quantity of solvent, and leading off from said closure the resulting solvent vapors by means of the vapor pressure in the closure, in condensing such solvent vapors and in returning such condensate to the body in the closure.

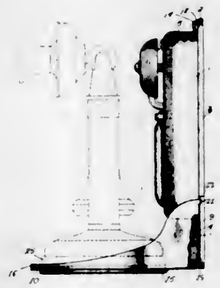
1,341,104. RIM-TOOL. WILLIAM J. BERG, Maximo, and ARTHUR B. KIDDER, Canton, Ohio; said Kidder assignor to said Berg. Filed Mar. 4, 1919. Serial No. 280,590. 2 Claims. (Cl. 157—1.)



1. A tire rim tool comprising a central turn-buckle with right and left threads, turn-buckle rods threaded therein

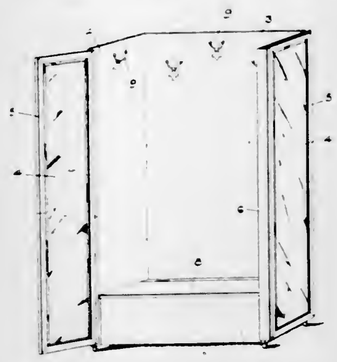
and provided with rim engaging extremities, an adjusting nut mounted upon each rod and provided with an annular flange, a wing sleeve fixedly mounted upon each adjusting nut and spaced from the flange on the said nut, a ring loosely mounted upon each nut between the flange thereof and the extremity of the wing sleeve and rim engaging hooks carried by said ring.

1,341,105. TELEPHONE. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1918. Serial No. 236,479. 7 Claims. (Cl. 179—100.)



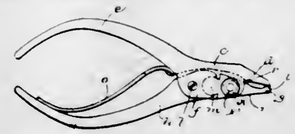
6. A device of the character described including a mounting plate, a shelf permanently attached to said mounting plate, a circular depression for said shelf to receive a desk stand telephone, a box holding telephone apparatus, dependent ears for said box, a recess formed in said mounting plate adapted to receive one of said ears, and means for securing said other ear to said mounting plate.

1,341,106. CLOTHES AND HAT STAND. JOHN BOOTH, Indianapolis, Ind. Filed Nov. 6, 1916. Serial No. 129,777. 1 Claim. (Cl. 45—37.)



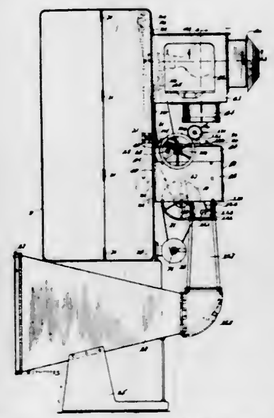
A hat and clothes stand permanently open at the front and having a rear wall and end walls forming an apparel receiving space, and swinging mirrors corresponding in dimensions to the end walls and adapted to cover the same when folded back with the mirrors outward, a connecting bar projecting from the end of the mirror frame at right angles thereto, and a hinge joining the said bar and the front face of the end walls and constituting the only pivotal support for the mirror, said bar covering the space between the mirror and end wall when the mirror is swung back against the latter in its normal position.

1,341,107. UNIVERSAL DENTAL PLIERS. WALTER G. BRIDGE, Newton, Mass. Filed July 16, 1918. Serial No. 245,130. 10 Claims. (Cl. 32—10.)



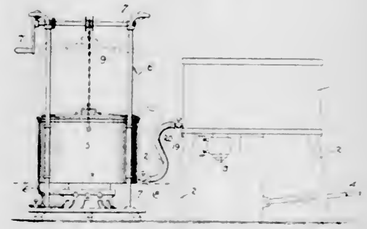
1. Pliers comprising a body having a jaw, and a second jaw pivoted to said body having diverse characteristics in its opposite faces, and being reversible whereby to bring either face into place for coaction with the first jaw.

1,341,108. MOTION-PICTURE MACHINE. JOHN P. BURNETT, Oak Park, Ill., assignor to Ad-Photoscope Company, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 8, 1917. Serial No. 141,271. 4 Claims. (Cl. 88—18.7.)



1. In a motion picture projecting machine, the combination of an endless movable film; a housing through which the film is adapted to be fed in the projection thereof; a source of illumination arranged above said housing and adapted to project light downwardly through the film passing through said housing; a light passage extending downwardly and horizontally from said housing; a translucent screen at the front end of said passage; a mirror for reflecting the light from said source of illumination onto said screen; and a film magazine arranged above the horizontal portion of said light passage and forwardly of said housing and source of illumination, substantially as described.

1,341,109. HEATER FOR WASHING-MACHINES. HELEN SANTORINAOS CARSON, Stamford, Conn. Filed May 14, 1919. Serial No. 297,131. 5 Claims. (Cl. 126—350.)



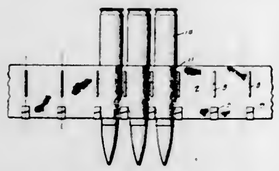
3. A device of the class described, including a washing machine, a heater, a tank associated with such heater, an

outlet located adjacent the bottom of both the washing machine and tank, a flexible piece of tubing extending between such outlets, and means associated with the tank for moving the same in a vertical plane.

1,341,110. POTASH-RECLAIMING. HARRY WILLIAMS CHARLTON, New York, N. Y. Filed Aug. 18, 1919. Serial No. 318,122. 4 Claims. (Cl. 23—22.)

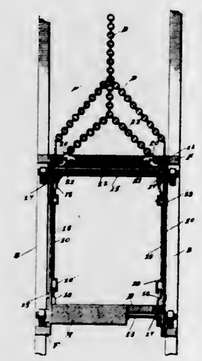
1. A process of liberating potassium which comprises heating greensand with ferrous chlorid; substantially as described.

1,341,111. CARTRIDGE-BELT. HENRY B. COOLEY, Kensington, Conn., assignor to The American Paper Goods Company, Kensington, Conn., a Corporation of Connecticut. Filed Aug. 23, 1918. Serial No. 251,099. 10 Claims. (Cl. 89—35.)



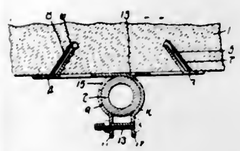
6. A cartridge belt comprising at least two strips each folded together to form at least two plies, staples passing around the free edge portions of the plies of the strips, and means for uniting the strips to form a series of pockets.

1,341,112. SAFETY DEVICE FOR ELEVATORS. LEON COURTY, Windsor, Mo. Filed Sept. 23, 1919. Serial No. 325,720. 5 Claims. (Cl. 187—83.)



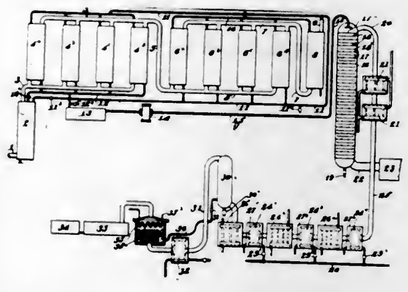
1. A safety device for elevators comprising the combination with an elevator platform, a lifting cable therefor, elevator guides associated with said platform and guide rails coöperating therewith, of spaced standards secured to each side of the elevator platform, spaced cross bars connecting said standards, a vertically movable slide arranged between each pair of standards, rock shafts journaled in each of said standards adjacent their upper and lower ends, locking dogs fixed to the outer ends of said rock shafts and adapted to be engaged with the elevator guide rails, radial arms secured to said rock shafts, a connecting rod fixed to each of said slides, links connecting said radial arms and said connecting rods, a three-arm rock lever arranged between said spaced cross bars having one arm thereof engaged with said slides, a retractile spring engaging another arm of said lever and auxiliary connections from said supporting cable engaged with the other arm of said lever as and for the purpose set forth.

1,341,113. SUPPORT. JOSEPH DOTTL and HERBERT G. HART, Madison, Wis. Filed Aug. 2, 1919. Serial No. 314,965. 9 Claims. (Cl. 248—31.)



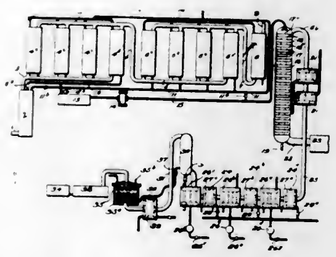
1. Means for supporting an article on a background having two holes therein whose inner ends are nearer together than their outer ends, said means including a pair of tongues or the like inclined to correspond to said holes and adapted to enter the latter, and means for drawing said tongues toward each other to establish a firm anchorage with the walls of said holes.

1,341,114. METHOD OF RECOVERING SULFUR DIOXID FROM GASES. AUGUSTUS H. EUSTIS, Milton, Mass. Filed Apr. 14, 1919. Serial No. 289,857. 23 Claims. (Cl. 23—10.)



1. The method of obtaining sulfur dioxid from material containing the same, which comprises extracting the gas by subjecting the material to the combined effect of heat and vacuum, passing the extracted sulfur dioxid gas through the vacuum producing means, and maintaining the temperature of the vacuum producing means at a point adapted to raise the temperature of the gases in immediate contact with the vacuum producing means above the dew point with respect to their contained liquids.

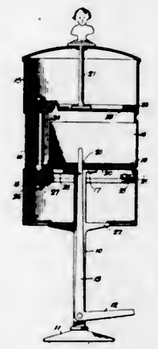
1,341,115. APPARATUS FOR RECOVERING SULFUR DIOXID FROM GASES. AUGUSTUS H. EUSTIS, Milton, Mass. Original application filed Apr. 14, 1919, Serial No. 289,857. Divided and this application filed July 16, 1919. Serial No. 311,123. 24 Claims. (Cl. 23—3.)



1. Apparatus for obtaining sulfur dioxid from material containing the same, comprising a vacuum extractor, a

vacuum pump adapted to maintain a partial vacuum in the extractor, and means to heat the pump to a temperature adapted to raise the temperature of the gases in immediate contact with the pump above the dew point with respect to their contained liquids.

1,341,116. DISPLAY-EXHIBITOR. PETER P. FIGUEROA, New York, N. Y. Filed Feb. 24, 1919. Serial No. 278,677. 7 Claims. (Cl. 40—68.)



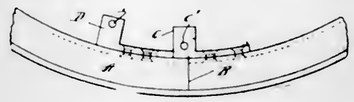
1. In a display exhibitor, the combination of revolving casings, a drawer associated with the casings, means for extracting the drawer, and means connected with the moving drawer to actuate the casings.

1,341,117. DEVICE FOR OBLIQUE FIRING. ALEXANDER T. FISCHER, Detroit, Mich. Filed Feb. 21, 1919. Serial No. 278,501. 1 Claim. (Cl. 42—1.)



The combination of a firearm with bayonet attached, and an attachment thereto having a curved path for the deflection of the projectile.

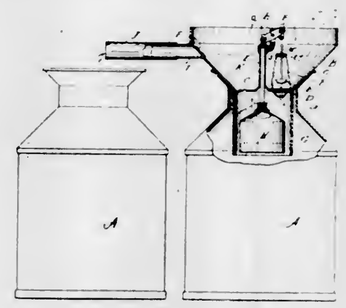
1,341,118. RIM-FASTENING MEANS. HENRY J. FOSTER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 31, 1918. Serial No. 247,474. 1 Claim. (Cl. 152—21.)



The combination with a one-piece transplit tire carrying rim, of plates attached to the ends of said rim and provided with driving lugs, the meeting ends of said plates being shaped to interlock.

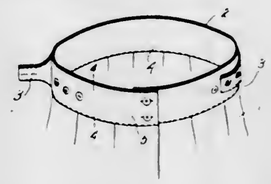
1,341,119. AUTOMATIC STRAINER AND CAN-FILLER. JOSEPH ALFRED FRASER, Glencoe, Mo., assignor to La Salle Institute, Glencoe, Mo., a Corporation of Missouri. Filed July 21, 1919. Serial No. 312,374. 3 Claims. (Cl. 210—156.)

1. A device of the character described comprising an overflow outlet and a discharge outlet, a screen for each of said outlets, a valve located in said discharge outlet a float located below said valve, and operative connections



therebetween to effect the closing of the valve, whereby the closing of said valve will deliver the surplus through the screened overflow outlet, substantially as described.

1,341,120. GARMENT. WILLIAM FREEDMAN, Brooklyn, N. Y. Filed June 20, 1919. Serial No. 305,573. 1 Claim. (Cl. 2—143.)



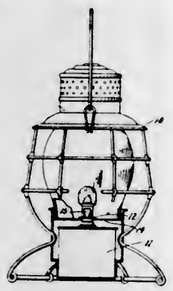
A waist-band for a garment, said band comprising a strip having wide shallow recesses in its opposite edges, said recesses being arranged so that a recess in one edge is adjacent another in the opposite edge, leaving relatively narrow portions between them, to enable said portions to be folded in the middle to cause one half of each portion to coincide with the other half, and said halves to be secured together to provide projecting flaps to be fastened to the band at a plurality of points for enabling the size of the band to be adjusted.

1,341,121. PROCESS OF APPLYING REPAIR-TIRES TO WORN CASINGS. CHARLES C. GATES, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a Corporation of Colorado. Filed June 5, 1919. Serial No. 301,918. 4 Claims. (Cl. 154—14.)



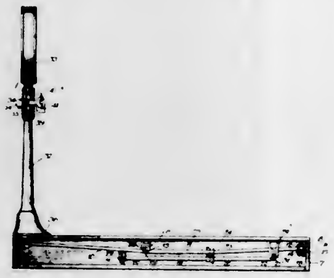
1. A process of applying a repair tire to a casing, comprising applying cement, applying a portion of one member to a portion of the other, deforming a part of the one member and then applying another portion of the other member thereto while in the deformed state.

1,341,122. LANTERN-BURNER. WILLIAM S. HAMM, Hubbard Woods, and FRANK A. SCHUETZ, Chicago, Ill., assignors to The Adams & Westlake Co., a Corporation of Illinois. Filed Mar. 4, 1919. Serial No. 280,587. 24 Claims. (Cl. 67—53.)



1. A burner for lanterns and the like, comprising a wick-tube having its upper end flared to fan shape, the portions of the side walls of the flaring portion which are in line with the more contracted portion of the tube being spaced apart a distance equal to the internal diameter of such contracted portion to form a lateral support for the upper end of the wick.

1,341,123. WEIGHING-SCALE. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed July 25, 1914. Serial No. 853,061. 9 Claims. (Cl. 265—62.)



1. In a weighing scale and in combination with the main beam thereof, a tare beam supported by the main beam and a counterbalance member secured to the main beam and angularly adjustable in a plane transverse thereto to change the center of gravity of the beam.

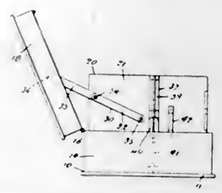
9. In a weighing scale and in combination with the main beam thereof, a hollow extension 45 open at one end secured to said beam and having an axial bore 44 therein, a cap 46 closing the end of said extension and likewise having a concentric bore therein, a screw 48 journaled in said bores, a poise adjustable upon said screw lengthwise of said beam and means for preventing the rotation of the poise.

1,341,124. TIRE-RIM. CHESTER N. HAUFFE, Columbus, Ohio. Filed Feb. 17, 1919. Serial No. 277,388. 1 Claim. (Cl. 152—21.)

A tire rim comprising a substantially resilient metallic body formed to include separated and spaced ends, a pair of hinged toggle sections having their outer portions hinged to said ends, the meeting ends of said sections being formed to include a tongue extension capable of lying within a recess formed in the other coöperative section, said extension being pivotally connected to the inner wall of said recess, shoulders formed with the adjacent ends of said sections and situated in offset relationship with respect to the hinge of said tongue extension and operating to arrest outward movement on the part of said sections, and a strip formed with the section in which the recess is provided, said strip being capable of engaging with the other complemental section to relieve said shoulders of the stresses set up by the expanding movements of the sections.

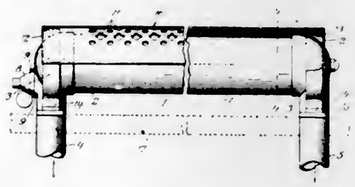


1,341,125. CHEST. ERNST A. HEIDTMANN, Richmond Hill, N. Y. Filed Apr. 11, 1917. Serial No. 161,236. 1 Claim. (Cl. 190—30.)



The combination, in a chest of the kind described, of a hollow body having an open top with a lid hinged thereto for being swung to open and closed positions, a tray frame member adjustable inwardly and outwardly of the open top of the body, a pair of side lifting elements for the tray frame member, each including a pair of hingedly connected bars, one pivoted to the lid and the other substantially centrally to a side of the frame member, and means for limiting the inward movement of the tray frame member to cause folding of the lifting elements when the lid is closed.

1,341,126. AUTOMOBILE-HEATER. EUGENE H. HELLER, Chicago, Ill., assignor to The Hill Pump Valve Company, Chicago, Ill., a Corporation of Illinois. Filed May 18, 1917. Serial No. 169,403. 7 Claims. (Cl. 257—136.)



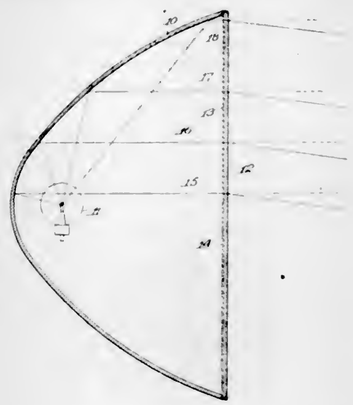
1. A device of the class described comprising a horizontally disposed tubular body and tubular elbows attached to the ends thereof and in communication therewith, vertical pipes leading downward from said elbows and formed integral therewith, lugs extending laterally from said pipes and provided with screw-holes, a guard plate disposed adjacent said body, and guard-plate supports secured to the ends of said guard plate and provided with screw-holes registering with said first-named screw-holes.

1,341,127. KEROSENE-BURNING TORCH. CLAIR L. HINKSON, Newaygo, Mich. Filed Dec. 18, 1918. Serial No. 267,346. 2 Claims. (Cl. 158—33.)



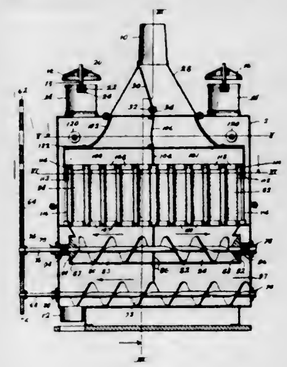
1. In a device of the character described, an elongated hollow head open at one end and closed at its rear end by a back, said back having a central opening therethrough, and said head adjacent its rear portion being provided with a plurality of air openings in its sides, a coil within the head in which fuel is adapted to be changed by heat from liquid to gaseous state, means to supply liquid fuel to the coil, an outlet pipe carrying the gaseous fuel from the coil and passing to the rear through the back of the head, a nozzle including a head having a relatively large chamber therein, said nozzle being located directly back of the central opening in the back of the head, a pipe on to which said nozzle is secured, a plug provided with passages of small dimensions inserted into the end of said pipe and located within the chamber of the nozzle, and connections between said last mentioned pipe and the outlet pipe for carrying the gaseous fuel to the nozzle, substantially as described.

1,341,128. HEADLIGHT. EDWARD H. HOBBIE, Boonton, N. J., assignor to Saferlite Lens Company, Inc., New York, N. Y., a Corporation of New York. Continuation of application Serial No. 180,044, filed July 12, 1917. This application filed Sept. 21, 1918. Serial No. 255,026. 4 Claims. (Cl. 240—48.4.)



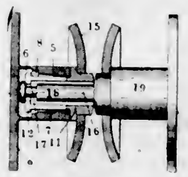
1. In a headlight, the combination of a paraboloidal reflector, a concentrated light-source in the reflector and in the axis thereof adjacent to the focus, and a lens closing the reflector, composed of a flat plate of glass, provided with a series of horizontal refracting elements arranged one above the other to refract light-rays downwardly, and provided on another portion with a series of vertical cylindro-lenticular refracting elements arranged side by side to refract light-rays laterally in both directions, the refractive angles of both the horizontal and the vertical elements being not greater than about 15° and one series of elements being above the other series, as set forth.

1,341,129. DUST-COLLECTOR. ERNEST R. HOPKINS, Independence, Mo. Filed Jan. 28, 1920. Serial No. 354,637. 21 Claims. (Cl. 183—55.)



1. In an apparatus of the character described, an upper chamber having an inlet for dust laden air, a lower chamber to receive the dust and provided with an outlet through which the dust is discharged, filtering material interposed between said chambers to separate the dust from the air, means to intermittently cut off the dust laden air from the upper chamber, and means for jarring the upper chamber and the filtering material to loosen the dust from the latter.

1,341,130. CUFF-BUTTON. JACOB A. JACOBS, St. Louis, Mo., assignor to Eisenstadt Manufacturing Company, a Corporation of Missouri. Filed Mar. 11, 1920. Serial No. 365,014. 3 Claims. (Cl. 24—102.)

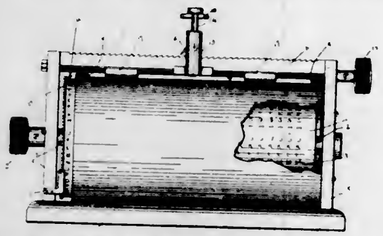


2. A cuff button comprising two separable parts, one of said parts comprising a barrel carrying a cuff engaging member and a sleeve movable relative to said barrel and also carrying a cuff engaging member, and the other of said parts comprising a post adapted to enter said sleeve and be locked by the relative movement of said members.

1,341,131. CYLINDRICAL TYPEWRITER. DAVID JANKOWER, New York, N. Y. Filed Jan. 2, 1918. Serial No. 209,991. Renewed Mar. 20, 1920. Serial No. 367,432. 2 Claims. (Cl. 197—1.)

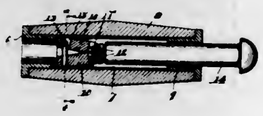
2. In a typewriter, a revoluble type-carrying cylinder having longitudinal lines of type characters around its

periphery each line of a similar sign, a plunger mounted to move along the surface of said cylinder in a direction



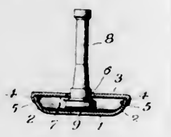
parallel to the axis and adapted to cause imprint of said characters upon a sheet of paper, and means for feeding the paper to present different lines thereof for printing.

1,341,132. DEVICE FOR REMOVING BUSHINGS AND THE LIKE. ALFRED JOHNSON, Chicago, Ill. Filed Nov. 20, 1917. Serial No. 202,920. 1 Claim. (Cl. 29—88.2.)



A device for removing bushings and the like comprising an expansible element, said element comprising a plurality of relatively pivotal sections; and resilient means, independent of said sections, for normally holding corresponding ends of said sections in close proximity with each other and the opposite ends of said sections in divergent positions, substantially as described.

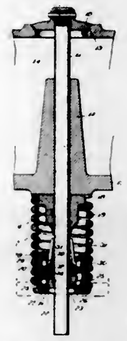
1,341,133. SLIDING SHOE FOR FURNITURE. JOHN ADOLPH JOHNSON, Meriden, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 12, 1919. Serial No. 296,296. 2 Claims. (Cl. 16—4.)



1. In a sliding shoe for furniture a flat bottomed base having upwardly curved peripheral edges, a pintle having an enlarged lower end which latter has a convex face having rolling contact with said base, and a cover plate through which the pintle extends, the cover plate having its periphery bent inwardly so as to interlock with the curved edges of the base thereby to prevent the cover plate from being disengaged from the base and to prevent removal of the pintle from the base, the base having a seat for said pintle end of greater diameter than said end whereby when the cover is removed the pintle can be lifted up out of engagement with the base.

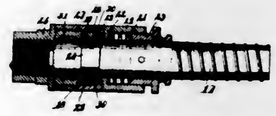
1,341,134. VALVE-ROTATING MECHANISM. JEREMIAH KELLER, Chicago, Ill. Filed May 31, 1919. Serial No. 300,848. 9 Claims. (Cl. 123—90.)

1. Mechanism of the class described, comprising, in combination with the stem of a spring-controlled puppet valve, means through which the stem of the valve reciprocates, means, disposed about the stem, on which the spring of the valve exerts downward presure whereby to return the valve to its seat, means, located within the second means, arranged in operative relation with the valve-stem, and rocker means arranged within the second means and in operative relation with the third means, said rocker



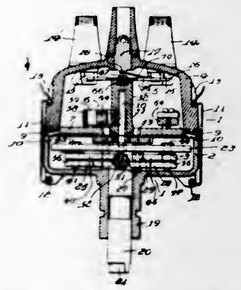
means being adapted to be affected by the first means during the upward stroke of said valve-stem, whereby the third means, together with the valve-stem, is given predetermined rotation.

1,341,135. COUPLING. WILLIAM H. KENNEDY, Chicago, Ill. Filed Jan. 13, 1919. Serial No. 270,854. 2 Claims. (Cl. 285—178.)



1. In a coupling, the combination with a female member, of a rotatably movable ring mounted in said member provided with lugs; a male member loose in the ring provided with lugs and engaging the lugs upon the ring; a locking sleeve loose upon the male member provided with projections engaging the lugs upon both the ring and the male member; means for causing engagement of said projections and lugs and preventing displacement of said members and allowing joint rotary movement of said lugs; and means for limiting relative rotary movement of said locking sleeve, said locking sleeve being longitudinally shiftable; and resilient means coöperating with said locking sleeve to normally hold the same in a position in which the projection thereof will not, upon rotation of said sleeve, engage with said stops, substantially as described.

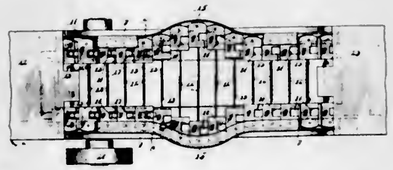
1,341,136. ELECTRIC IGNITING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ARTHUR ATWATER KENT, Rosemont, Pa. Filed Apr. 9, 1917. Serial No. 160,651. 14 Claims. (Cl. 123—117.)



1. In a spark forming and controlling device the combination of a casing, a driving shaft, a journal for said

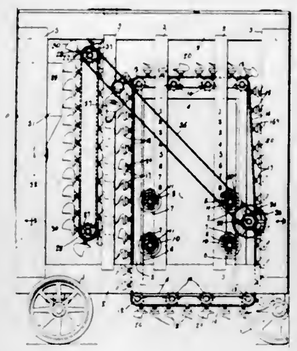
drive shaft in said casing and extending upwardly into said casing and forming a step or thrust bearing, a plate rigidly secured to said shaft and resting on said step bearing, a second plate, a combined cam and distributer arm support rigidly secured to said second plate and mounted and supported on the top end of said shaft and rotatable with respect to said shaft and means operatively attached to said plates and located below said first mentioned plate to vary the angular position of said top plate and the parts carried thereby with respect to said drive shaft.

1,341,137. CONFECTIONERY-MACHINE. OTTO G. KIEFER, Chicago, Ill., assignor of one-third to Adolf Pfitzer, Chicago, Ill. Filed May 28, 1918. Serial No. 236,987. 6 Claims. (Cl. 107—20.)



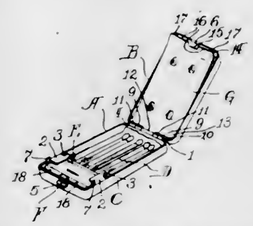
6. A machine of the class described comprising two parallel, endless channel guides, each following a substantially oval course and arranged with the open sides facing eath other, said guides being shaped to approach toward and recede from each other; blocks slidable in said guides, said blocks substantially filling the guides and each provided with corresponding openings therethrough forming gear teeth receiving sockets; an operating shaft extending through one of the ends of said guides; gears on said shaft having teeth meshing with the sockets in said blocks; an operating table positioned centrally between said guides; a delivery table leading to one end of said operating table between said guides; a discharge table leading to the other end of said gulde table; and coöperating hook like members on said blocks and operating over said operating table, substantially as described.

1,341,138. DIGGING-MACHINE. JOHN M. KINCADE, Springfield, Ohio. Filed Nov. 8, 1918. Serial No. 261,748. 10 Claims. (Cl. 37—24.)



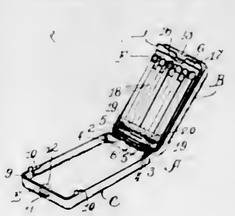
1. In a machine of the character described, the combination, with a vertically supported frame, an endless carrier movable on said frame, soil engaging devices attached to the carrier and adapted to dig a rectangular-shaped opening in the ground limited by the fixed dimensions of said frame, means to positively force the frame downward to cause said devices to penetrate the soil to increasing depth, a stationary gage coöperating with a member of said frame to indicate the extent of said downward movement, and means to actuate the carrier to cause said devices to remove the soil in advance of the downward movement of said frame.

1,341,139. MATCH-BOX. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed May 2, 1917. Serial No. 166,057. 9 Claims. (Cl. 206—33.)



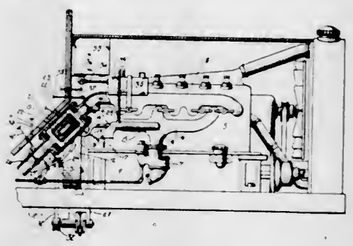
1. In a box having a cover and body portion, a partition in said box and a hinge for pivotally connecting said cover, body portion and partition together, and frictional means in said hinge causing said partition to rotate with said cover unless said partition is engaged and held against rotation while said cover is being rotated.

1,341,140. MATCH-BOX. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed May 20, 1918. Serial No. 236,240. 7 Claims. (Cl. 206—33.)



1. In a box having a cover, a body portion and a spring like partition hinged together at a common point, said spring like partition acting to open said box and means on said partition for holding a series of bound together matches to expose said matches when said box is opened.

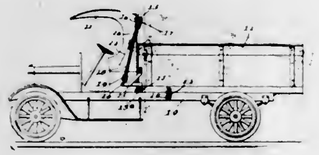
1,341,141. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. WILLIAM LENNON, Manitou, Colo. Filed Nov. 22, 1916. Serial No. 132,748. 6 Claims. (Cl. 123—133.)



1. A device of the class described, comprising a chamber, a jacket surounding said chamber and carrying a quantity of heat-absorbing material, a second jacket surround-

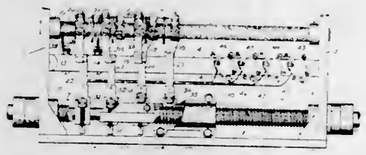
ing the first named jacket, the second jacket being mounted on and forming a part of the exhaust conduit and through which the products of combustion from the engine pass, means for closing the exhaust conduit on opposite sides of the second jacket, and means for exhausting the air from the second jacket.

1,341,142. TRUCK-HOIST. THOMAS L. LILLY, Minonk, Ill. Filed Dec. 16, 1918. Serial No. 267,084. 3 Claims. (Cl. 298—19.)



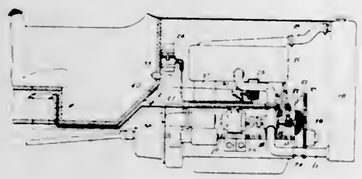
2. The combination with a truck having a tilting body, of a tackle consisting of pairs of pulley blocks connected by a running cable and provided respectively with anchoring hooks, and upper and lower pairs of eyes on the truck and corresponding upper and lower pairs of eyes on the body for engagement respectively with said hooks.

1,341,143. SELECTOR FOR AUTOMATIC HOISTING APPARATUS. MARTIN B. MCLAUTHLIN, Malden, Mass., and ARTHUR K. TYLEE, Montreal, Quebec, Canada. Filed Aug. 28, 1915. Serial No. 47,809. 7 Claims. (Cl. 200—18.)



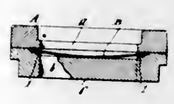
1. A selector for an electric hoisting apparatus, comprising a plurality of switch members, all arranged to move in the same direction, contacts complemental to said members and on respectively opposite sides thereof, and an actuator arranged and operable to shift said members successively and change the positions thereof in relation to their complemental contact pieces, causing one of said members to make contact with its complemental contact, and another one to be separated from its complemental contact.

1,341,144. AUXILIARY HEATING SYSTEM. ABRAHAM S. MEADOFF, New York, N. Y., assignor to Hudson Metal Bed Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 15, 1918. Serial No. 217,450. 2 Claims. (Cl. 123—174.)



1. An auxiliary heating system for the circulating fluid in automobile engines comprising a heater adapted to heat the lead pipe for the cooling fluid at a point near the water jacket, a pump to help circulate the fluid, means for starting said heater, and means cooperating with said heater starting means for operating said pump.

1,341,145. AUTOMATIC PLATE-VALVE. ROBERT MEYER, Mulheim-Ruhr, Germany, assignor, by mesne assignments, to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed July 20, 1915. Serial No. 40,857. 6 Claims. (Cl. 251—119.)



1. The combination of a valve seat having one or more ports, one or more thin elastic plates forming valves and having both ends free to permit bending of the entire valve in opening, and a cap provided with means at opposite ends of the valve for holding the valve in position and permitting the bending movement, said valve seat being formed without recesses for the valve.

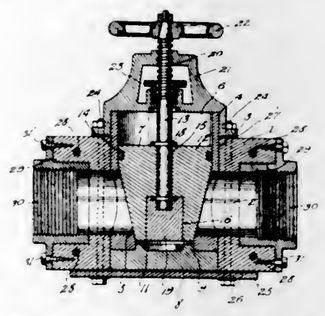
2. The combination of a valve seat having one or more ports, one or more thin elastic plates forming valves and having both ends free to permit bending of the entire valve in opening, and a cap provided with recesses receiving the ends of the valve and curved or inclined to permit the bending of the valve, said valve seat being formed without recesses for the valve.

3. The combination of a valve seat having one or more ports, one or more thin elastic plates forming valves and having both ends free to permit bending of the entire valve in opening, and a cap provided with recesses receiving the ends of the valve and curved or inclined to permit the bending of the valve, said valve seat being formed without recesses for the valve, and means for holding the valve in position sidewise.

4. A valve seat having a plain surface, an elongated valve of elastic flexible material, and a cap having a concave recess, the said valve extending across the concave recess and at both ends loosely received between the ends of said recess and said seat.

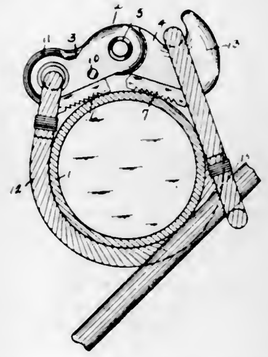
5. A valve seat having a plain surface, an elongated valve of elastic flexible material, and a cap having a concave recess, the said valve being received between the ends of said recess and said seat and extending longitudinally across the concave recess, and there being a clearance between said valve and the bottom faces of the ends of said recess when said valve is in normal closed position.

1,341,146. VALVE. ROBERT W. MURRAY, New Lexington, Ohio. Filed July 15, 1918. Serial No. 244,880. 6 Claims. (Cl. 251—103.)



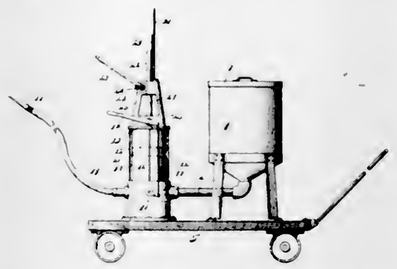
1. A valve comprising a wood body portion bored longitudinally and having a transverse valve opening tapered during its intersection with said bore and cylindrical above it, a wood valve plug tapered to fit said tapered seat, means for packing the upper portion of said plug where it moves up and down in the cylindrical portion of said valve opening against leakage, and means for moving said plug up and down in said valve opening.

1,341,147. PIPE-GRIP. DANIEL E. NORRIS, Robinson, Ill., assignor of one-half to Frank H. Norris, Robinson, Ill. Filed Mar. 31, 1919. Serial No. 286,232. 2 Claims. (Cl. 81—64.)



1. A pipe grip comprising sections pivotally secured together and having pipe engaging surfaces, the grip being provided at one end of one of the sections with means for securing a flexible pipe encircling element and at the end of the other section with a hook over which the element may be placed, whereby pressure is exerted on the ends of the sections thus forcing the engaging surfaces into engagement with the leverage of the sections operating on the pivot as a fulcrum.

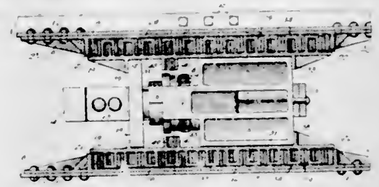
1,341,148. GREASE-GUN. SYLVESTER L. O'BRIEN, Chicago, Ill. Filed Apr. 2, 1919. Serial No. 286,827. 2 Claims. (Cl. 221—78.)



1. A device of the class described comprising a cylinder; a piston operating in said cylinder; a piston rod for operating said piston and projecting from one end of said cylinder; a rack bar on said rod; a pinion meshing with said rack bar; an operating lever mounted on the end of said cylinder through which the piston rod projects and operatively connected with said pinion; pipes leading into and out of the other end of said cylinder; a manually operable valve arranged to open the cylinder connection with each pipe and simultaneously close the cylinder connection with the other pipe; a valve operating lever mounted on the opposite end of said cylinder adjacent said first mentioned operating lever; and an operative connection between said valve operating lever and said valve, substantially as described.

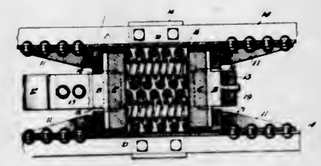
1,341,149. DRAFT-RIGGING FOR RAILWAY-CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 10, 1915. Serial No. 33,277. 11 Claims. (Cl. 213—42.)

1. In a stop member for railway car draft rigging, a grooved stationary member having shoulders on its inner face, a movable member having shoulders on its outer face to operate therein, and springs interposed between



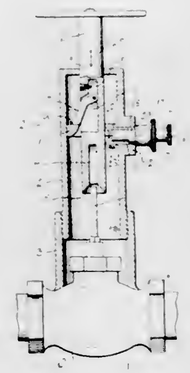
the shoulders of the movable member and the shoulders of the stationary member.

1,341,150. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Jan. 20, 1919. Serial No. 271,912. 4 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with a friction shell having an opening in one end thereof of lesser width than the shell, of friction shoes disposed within the shell and extending across said opening, said shell having interior shoulders on opposite sides of the opening with which said shoes coöperate and are limited in their outward movement with respect to the shell, said shoes having projections extending through the opening of the shell, means for yieldingly resisting movement of said shoes with respect to the shell, and means for transmitting pressure to said shoes.

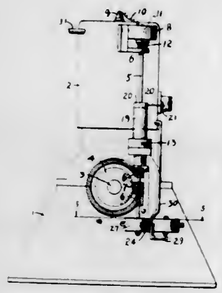
1,341,151. VALVE. OLAV G. OLSEN, Binghamton, N. Y. Filed Mar. 6, 1920. Serial No. 363,876. 3 Claims. (Cl. 251—6.)



1. The combination with a valve casing, a rotary valve therein and a stem carried by the valve extending exteriorly of the casing, a hollow member carried by the casing and into which the stem extends, a spindle extending within the hollow member and capable of rotary movement and endwise movement, the inserted end of the

spindle being provided with a recess to receive an end portion of the stem when the spindle is moved in a direction toward the stem, said spindle and stem interlocking for unitary rotation when the stem is engaged within the recess of the spindle, said hollow member being provided with an interior annular shoulder, said shoulder being intersected by a slot, a latch carried by the spindle for engagement with the shoulder to maintain the spindle in a position out of engagement with the stem, said latch being movable through the slot intersecting the shoulder, and means for normally closing the slot.

1,341,152. INTERNAL-COMBUSTION ENGINE. PONTUS OSTENBERG, Santa Clara county, Calif., assignor to Manuel Adrian, San Jose, Calif. Filed Feb. 25, 1919. Serial No. 279,208. 3 Claims. (Cl. 123—195.)



1. The combination with a water cooled engine of the type disclosed, of a single crank-shaft driven shaft vertically and revolubly mounted on the exterior thereof, a water pump, a governor, an impulse starter, and a magneto operatively mounted in axial alinement with said shaft and operated by the revolution thereof, and a throttle operating lever arranged to be actuated by the operation of said governor.

1,341,153. COMBINATION KNIFE AND FORK. EDWARD GODRIC PARKER and RUDOLF STROPPEL, West Branch, Iowa. Filed Nov. 4, 1918. Serial No. 261,010. 1 Claim. (Cl. 30—10.)



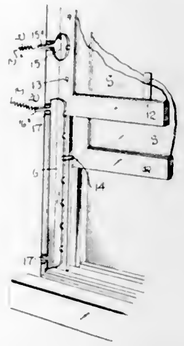
A combination knife and fork, including a handle having a groove, blades pivotally secured to one end of the handle, a pawl pivotally secured to the handle, the blades having notches to be engaged by the pawl when the blades are in open position, one of said notches being of greater extent than the other, whereby one blade may swing past the other when in open position and the blades having other notches to be engaged by the pawl when the blades are closed to hold the blades in housed position within the groove.

1,341,154. SOUND-BOX FOR PHONOGRAPHS. JOSEPH N. PEPIN, Chicago, Ill. Original application filed Oct. 23, 1918, Serial No. 259,323. Divided and this application filed Oct. 23, 1918. Serial No. 259,328. 1 Claim. (Cl. 181—31.)

In a sound-box or reproducer for talking-machines, the combination with front and rear rings or members and adjustable connecting-means, one of said rings or members being provided on its inner face with an annular recess, of a yielding annular gasket seated within said recess and provided with a marginal flange disposed away from the ring or member in which the gasket is seated and at an angle to the gasket, a flat diaphragm seated upon the gasket and surrounded by said marginal flange thereof and a companion gasket at the opposite side of the diaphragm, the latter gasket being spaced from the said marginal flange of the first mentioned gasket when these parts are clamped together to retain the diaphragm, whereby said marginal flange is not unduly spread or thickened to buckle or otherwise interfere with the said diaphragm.

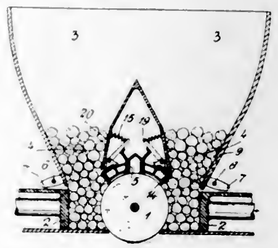


1,341,155. MEANS FOR AUTOMATICALLY CLOSING WINDOWS. LEONARD M. PHELPS, Philadelphia, Pa. Filed Nov. 1, 1916. Serial No. 128,976. 9 Claims. (Cl. 292—45.)



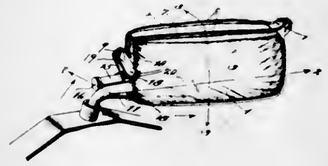
2. The combination with a pair of windows each having sliding sashes urged to a closed position, of a pair of latches coacting with the upper and lower sashes of each window, a rotatable member disposed between the windows, pull connections extending from said latches to opposite ends of said rotatable members and each including a coiled spring, and means for rotating said member in one direction to a position to tension the spring or rotate said member in the other direction to a position to relieve the tension on the spring to thus relieve the operative engagement between the latches and the sashes.

1,341,156. MAGAZINE GRINDING APPARATUS FOR THE MANUFACTURE OF WOOD-PULP. PEDER CHRISTIAN SCHAANNING, Vestre Aker, near Christiania, Norway. Filed Mar. 27, 1920. Serial No. 369,324. 7 Claims. (Cl. 83—75.)



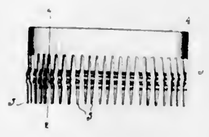
1. In magazine grinding apparatuses for the manufacture of wood pulp, the combination of a magazine compartment for wooden blocks to be ground, a grinding stone, pressing members for forcing said blocks against said stone, and movable members arranged at or in the wall of the magazine or the part of same conducting the blocks to the space between the stone and the pressing members in such a manner as to move the blocks located near the said wall part in a direction away from the said space, whereby any self-carrying bridge-arches of blocks are incessantly interrupted.

1,341,157. WATER-BAG FOR FILLING AUTOMOBILE-RADIATORS. BENJAMIN T. SUBLETT, Danville, Va., assignor of one-half to Henry Lee Sublett, Danville, Va. Filed Nov. 10, 1919. Serial No. 336,793. 2 Claims. (Cl. 150—1.)



1. As a new article of manufacture, a flexible bag composed of vulcanized water proof material and comprising a plurality of compartments, one for the reception of water to be stored and the other to receive water for immediate use, the former having a cover closed filling spout, the latter adjacent one end near its corner having a vulcanized closed portion provided with an outlet spout, a portion of one end of the bag at one end of the latter compartment having an opening, a pliable element overstitched about the marginal edge of the filling opening, to retain the opposite edges of the filling opening close together to prevent the escape of water in large quantities when the bag is tilted, a U-shaped strap vulcanized to one end of the bag, a second U-shaped strap vulcanized to the adjacent end walls of the opposite end of the bag at a point between the filling opening of the latter compartment and the outlet spout.

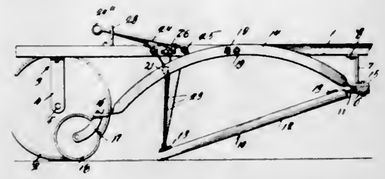
1,341,158. COMB. SEMEN SYNOHUBYK, Edmonton, Alberta, Canada. Filed Nov. 25, 1919. Serial No. 340,482. 1 Claim. (Cl. 132—3.)



A comb consisting of a base, teeth extending downwardly from said base, said teeth being tapered downwardly and having a pair of outwardly extending kinks between said base and the point of said teeth, the outwardly extending portion of each of said kinks being at right angles to the general upright of said comb, said outwardly extending portion of said kinks being parallel with each other and each being one half as long as the portion of the tooth between said outwardly extending portions.

1,341,159. DRAG-LIFTER. JOSEPH TILLMANN, Sauk Center, Minn. Filed May 13, 1919. Serial No. 296,845. 7 Claims. (Cl. 55—88.)

1. The combination with a longitudinally extending tongue, and a cross beam carried thereby; of a plurality of drag sections loosely connected with said beam, longitudinally extending beams attached to said cross beam,



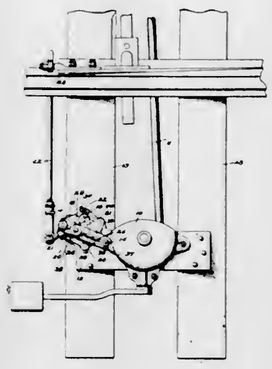
wheels carried by said longitudinal beams, and cables connected for raising and lowering said drag sections individually.

1,341,160. PANTOGRAPH EMBROIDERY-MACHINE. PAUL ZÜST, Rheineck, and JOHANN METZGER, Heiden, Switzerland, assignors to the Firm of Staheli, Rietmann & Co., St. Gallen, Switzerland. Filed July 13, 1916, Serial No. 109,136. Renewed Jan. 23, 1920. Serial No. 353,592. 3 Claims. (Cl. 112—95.)



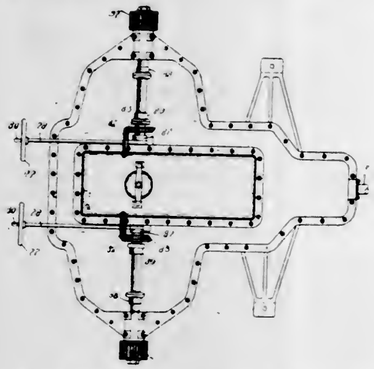
1. An embroidering machine having a pantograph operated fabric frame and a horizontal needle bar extending along said frame; in combination with needles arranged in pairs along said bar and a single shuttle simultaneously coöperating with each pair of needles.

1,341,161. RAILWAY-SWITCH APPARATUS. CHARLES AMES ALDEN, Steelton, Pa. Filed Oct. 1, 1919. Serial No. 327,626. 13 Claims. (Cl. 246—476.)



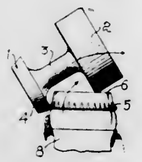
1. The combination with a switch, a member movable with said switch, a signal mast, and means operably connecting said member and mast to turn the latter unequal amounts for equal movements of said member, the movement of the mast being greatest at the ends of the throw of the switch.

1,341,162. TRANSMISSION. HUBERT MCL. ARMISTEAD, San Francisco, Calif., assignor to Armistead-Ashley Engineering Corporation, Reno, Nev., a Corporation of Nevada. Filed Oct. 7, 1918. Serial No. 257,291. 2 Claims. (Cl. 180—17.)



1. In a power transmission, a divided engine shaft, a reversing means mounted thereon and forming a connection between the abutting ends of said divided engine shaft, a divided cross shaft, gears fixedly keyed to the central section of said divided cross shaft, cone clutches carried at the outer ends of the central section of said cross shaft, cone clutches fixedly keyed to the inner ends of the outer sections of said divided cross shaft, gears carried at the outer ends of said last mentioned shaft sections, a pinion keyed to said engine shaft and meshing with one of said gears on said central section of said divided cross shaft, a counter shaft parallel with said central section of said divided cross shaft, a gear keyed to said counter shaft and in mash with the other of said gears keyed to said central section of said cross shaft, gears of smaller diameter keyed to said counter shaft, gears of larger diameter freely rotatable on said central section of said divided cross shaft, and in constant mesh with said gears of lesser diameter on said counter shaft, tubular portions integral with each of said last mentioned large gears, cone clutches slidable on said tubular portions and adapted to engage said cone clutches carried at the inner ends of said outer sections of said divided cross shaft, and means for retaining all of said cone clutches out of engagement with each other.

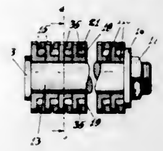
1,341,163. MEANS FOR APPLYING CROWN-SEALS. HERMAN C. BESTE, Baltimore, Md. Filed Sept. 23, 1919. Serial No. 325,753. 2 Claims. (Cl. 226—84.)



1. A capping and decapping tool having cap expanding and applying ends, one of said ends having means to engage the cap for removal of the same and the other forming a fulcrum and handle during removal.

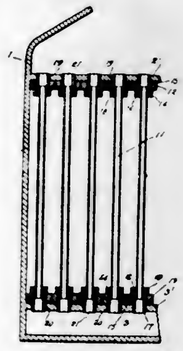
1,341,164. SKIVING-MACHINE. CHARLES A. BLISS, Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 20, 1919. Serial No. 318,721. 9 Claims. (Cl. 12—63.)

1. A feed and pressure roll comprising a rotary shaft, a series of rigid, toothed, spaced sections affixed to the shaft and a series of yielding members alternating with the rigid sections, the width of the yielding members



being of less extent than that of the spaces between the toothed sections.

1,341,165. AUTOMOBILE-RADIATOR. JOHN ELWOOD BRYANS, Winnipeg, Manitoba, Canada. Filed Apr. 9, 1919. Serial No. 288,737. 2 Claims. (Cl. 257—129.)



1. The combination with the upper and lower tanks of a radiator, of a plurality of upper and lower pairs of base plates bearing against the under face of the top tank and the top face of the bottom tank, radiator tubes extending between the tanks and with their upper and lower ends extending into the base plates, packings contained within the base plates and surrounding the ends of the tubes and jam sleeves screw-threaded through the tanks into the base plates and receiving the ends of the tubes and having their innermost ends engaging the packing strips.

1,341,166. SUCKER-ROD ELEVATOR. WILLIAM H. BURSTALL and WALTER ADAMSON, Oxnard, Calif. Filed June 28, 1919. Serial No. 307,318. 18 Claims. (Cl. 294—91.)

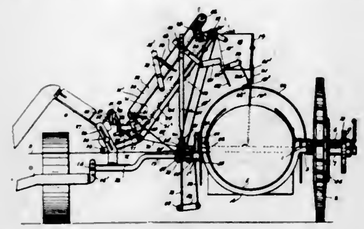


1. A sucker rod elevator comprising a bail, a body connected to said bail having a radially extending rod receiving way, shiftable latch means to secure a rod within said way, and a slide to secure said latch means in latched position.

1,341,167. ATTACHMENT TO SHOCKING-MACHINES. WILLIAM HACKLY CHURCH, Superb, Saskatchewan, Canada. Filed Apr. 16, 1918. Serial No. 228,842. 7 Claims. (Cl. 56—422.)

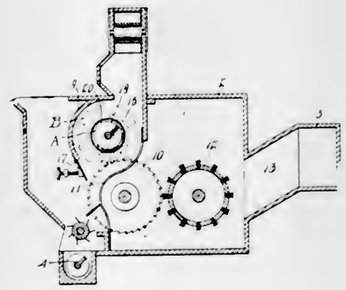
1. The combination with a shocking machine frame, an open topped sheaf receiving and shock forming basket pivotally secured to the frame, means for dumping the basket to deposit the shock and an elevator located to

one side of the frame and with the upper end thereof overhanging the basket, of a hopper suspended between the elevator and the basket and adapted to receive the



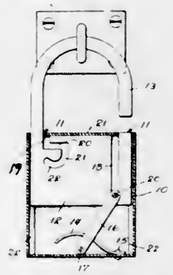
sheaves elevated by the elevator and deliver them into the basket and means actuated by the basket adapted to close the hopper and prevent the delivery of sheaves to the basket during the dumping operation.

1,341,168. METHOD AND APPARATUS FOR GINNING COTTON. CLABORN B. COTTON, Dardanelle, Ark. Filed Mar. 25, 1918. Serial No. 224,576. 5 Claims. (Cl. 13—9.)



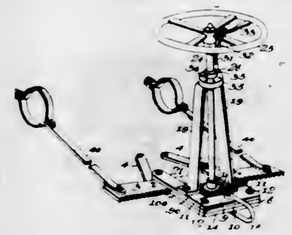
3. An apparatus for ginning cotton consisting in a roll box, a breast, gin saws rotating through an arc of the roll box, a tubular member fixed substantially coaxially with the roll box and having openings in its upper side, and a conveyer disposed within the tubular member and adapted to withdraw material longitudinally therefrom.

1,341,169. PADLOCK. CHARLES G. ENGLE, Jackson, Mich. Filed Dec. 5, 1919. Serial No. 342,691. 6 Claims. (Cl. 70—108.)



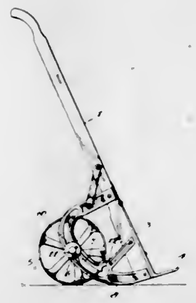
5. A padlock of the class described comprising a casing and a shackle, said shackle having a body portion provided with a guide way, a link pivotally mounted within said casing and provided at its top with a cross piece adapted to ride in said guide way, and means for preventing the movement of said link when the same is in a locked position.

1,341,170. TRACTOR-HITCH. CHARLES J. HALL, Rosalia, Wash. Filed May 14, 1919. Serial No. 297,094. 1 Claim. (Cl. 213—67.)



In a hitching device of the character stated, the combination with the axle housing of the tractor and a plow or other soil worker to be drawn by the tractor; of a hitch device for connecting the plow with the tractor, the said device comprising a horizontal rack bar, means for rigidly connecting the said bar with the axle housing and in parallelism with the said housing, a coupling member comprising upper and lower plates, a spacer plate held between the said upper and lower plates, the ends of the latter plates being extended to straddle the rack bar and constituting guides for holding the coupling member for lateral adjustment along the said rack bar, a standard supported on the spacer plate, a hand-wheel equipped shaft journaled on the said standard and the spacer plate and a gear on the shaft that meshes with the rack bar.

1,341,171. TRUCK. JAMES T. HALL, Waco, Tex. Filed July 24, 1919. Serial No. 312,933. 1 Claim. (Cl. 280—56.)

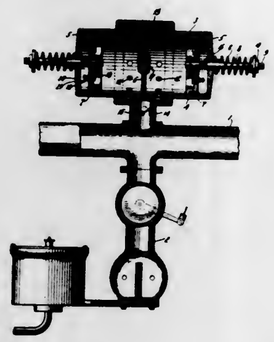


A truck including a body having handles at one end, rockers adjacent the opposite end of the truck beneath the same, said rockers having registering curved guide slots, and the truck axle moving in the slots, each slot having at its forward end and on the upper side a notch for engagement by the axle to hold it at the front end of the slots.

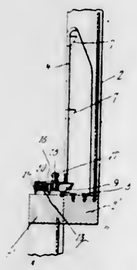
1,341,172. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. ALBERT ILLIAS, Newark, N. J. Filed Nov. 29, 1918. Serial No. 264,581. 1 Claim. (Cl. 123—119.)

The combination with the intake-manifold of an internal combustion engine, of a carbureter communicating therewith, a cylindrical casing having a central partition and being provided with apertures on either side of said partition through which said casing communicates with a chamber, said chamber also communicating with said intake-manifold, a piston in each compartment of said casing adapted to reduce the space in the respective compartments to a minimum by the suction produced in said

intake-manifold by the working of a piston of the engine, means disposed outside of said casing for returning said pistons to their normal positions when the suction in said intake-manifold ceases, and means for closing the communication between said chamber and said intake-manifold, the heads of said casing being provided with openings and each of said pistons having openings controlled by inwardly opening check valves adapted to be unseated when said pistons are forced against said heads.



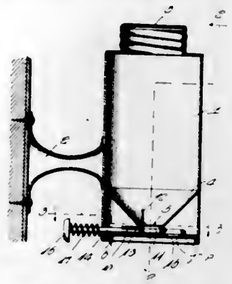
1,341,173. WINDOW-LOCK. FRANK IUCOLANO, New York, N. Y. Filed Mar. 11, 1919. Serial No. 281,908. 1 Claim. (Cl. 292—305.)



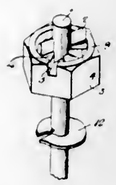
The combination with a pair of window sashes, of a bolt secured to the lower sash, and a keeper consisting of a post of T-shape in horizontal section fixed upon and projecting upwardly from the lower bar of the upper sash, said post having its transverse member substantially flush with the inner face of such bar and formed with a plurality of recesses to receive the bolt, said recesses being extended partially through the other member of the T-shaped post.

1,341,174. POWDER-DISPENSING DEVICE. HORACE G. INGRAM, Juniata, and SAMUEL GOLDBERG, Altoona, Pa. Filed Oct. 16, 1919. Serial No. 331,220. 2 Claims. (Cl. 221—104.)

1. The combination with a container having a filling opening therein and an outlet opening in its lower end, of a bottom plate disposed below said outlet opening in parallel relation therewith, said plate having an opening offset from the container outlet, a pair of parallel spaced guide wires secured to the upper face of said plate, a flat metal plunger plate slidable between said container outlet and bottom plate, said plunger plate having an opening of the same size as the container outlet and having its edges turned down over said guide wires, a wire operating stem extending through one side of said container, a loop formed on the inner end of said stem, said loop being secured to the lower face of said plunger plate around its opening to form a pocket for receiving powder from the container outlet and conveying it to the opening in the bottom plate.

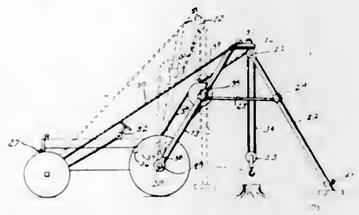


1,341,175. LOCK-NUT. LENORA H. JONES, Wichita, Kans. Filed May 2, 1918. Serial No. 232,133. 2 Claims. (Cl. 85—7.)



1. The combination of a bolt having a stem; a cotter pin extending through said stem; with a nut rotatably mounted on the stem and including at least one series of stepped, radiating teeth formed to be successively engaged by the cotter pin as the nut is turned on the stem, said nut including a flange formed to normally prevent longitudinal movement of the cotter pin through the stem and provided with an opening to permit insertion of said cotter pin.

1,341,176. STUMP PULLER AND PILER. WILLIAM M. JONES and JEFF H. JONES, New Holstein, Wis., assignors of one-third to Samuel H. Jones, New Holstein, Wis. Filed July 11, 1919. Serial No. 310,187. 7 Claims. (Cl. 254—166.)



3. A combined stump puller and piler comprising the combination with a motor vehicle; of braces pivotally mounted on one axle thereof and having an apertured enlargement at their upper ends, a loop having a shank pivotally engaged in said enlargement, a sheave supporting shaft through the loop and having ball terminals, beams having sockets engaged with said terminals for substantial universal movement, shoes at the lower ends of the beams, a block and tackle mechanism hung from said loop and having a cable passing around one of the sheaves, a winding mechanism for the cable, and means for driving it from the motor on said vehicle.

1,341,177. BOTTLE-CAP. JOHN ARTHUR KAYE, Sault Ste. Marie, Ontario, Canada. Filed Mar. 6, 1919. Serial No. 280,914. 1 Claim. (Cl. 215—9.)



A bottle cap including a sheet metal body formed with a flexible peripheral flange, a series of rounded lugs projecting laterally from the flange at a point adjacent the free edge thereof, one of the said lugs having a notch therein, a locking ring rotatably mounted upon the flange and formed with cam grooves which receive the lugs and cooperate with the rounded ends thereof to flex the flange of the cap body inwardly when the locking ring is rotated, and a spring detent mounted upon the locking ring and formed with a nose extending through the locking ring and adapted to engage the before mentioned notch of one of the lugs to hold the ring against backward rotation after it has been manipulated to lock the cap in position.

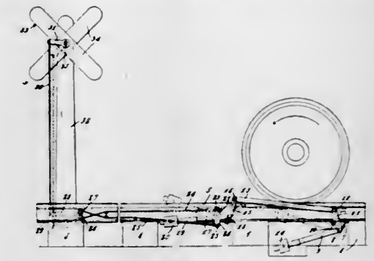
1,341,178. ONE-PIECE RATCHET-WRENCH. WILLIAM KAYLOR, Muskogee, Okla., assignor of one-half to J. L. Kimmel, Muskogee, Okla. Filed Apr. 1, 1919. Serial No. 286,745. 1 Claim. (Cl. 81—119.)



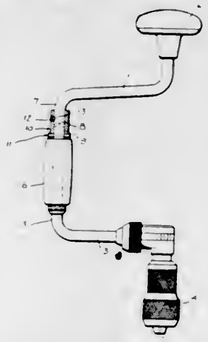
An open end wrench comprising a head having a nut receiving notch provided with a substantially central flat face for contact with one facet of a hexagonal nut, the portions of the head at opposite ends of said face forming a leading jaw and a following jaw; said following jaw having an inner flat face for contact with another facet of the nut, a short outer face to bind against the next facet of the nut, and a rounded front end merging into said short face and providing a fulcrum upon which the wrench rocks on its return strokes; said leading jaw having an inner flat face to contact with the nut facet opposite said short face, and an outer flat face at an angle to said inner face greater than the angle between two nut facets, permitting rocking of the wrench upon the aforesaid fulcrum.

1,341,179. TRAIN-SIGNAL. ERNEST G. KELLAM, Gray, Ga. Filed Nov. 22, 1919. Serial No. 340,050. 3 Claims. (Cl. 246—302.)

1. In a railway signaling device, a vertical standard, a signal supported on the standard, a pivoted arm including a relatively long weighted arm, and a relatively short arm extending at right angles thereto, an operating arm having a weight supported on one end thereof, a connecting arm connecting the operating arm and pivoted arm, whereby movement of the connecting arm in one direction causes a relative movement of the pivoted arm, and movement of the connecting arm in a longitudinal direction causes a relative movement of the operating arm, and means for connecting the operating arm and signal to cause a relative movement of the signal when the operating arm is moved.

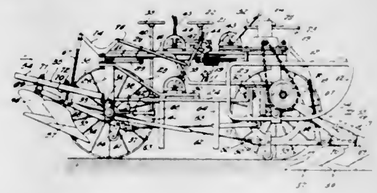


1,341,180. BITSTOCK. WILLIAM L. KERN, Alameda, Calif. Filed Mar. 28, 1918. Serial No. 225,286. 1 Claim. (Cl. 145—66.)



In a bit stock, the combination of a crank provided with a rotatable grip and made in two parts, the joint being exterior to said grip, a collar on said crank serving to retain said grip, and also serving to provide means for holding the separate portions of said crank together, means for securing said crank against axial motion on either crank part and the crank ends abutting each other and having means for preventing rotation.

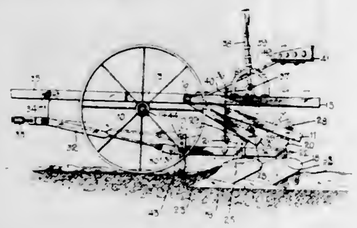
1,341,181. TRACTOR. CHARLES KINNEY, Elmira, N. Y., assignor of one-half to Louise May Ostrander, Elmira, N. Y. Filed Aug. 4, 1919. Serial No. 315,148. 5 Claims. (Cl. 180—52.)



1. A tractor embodying a frame, a motor section articulated to the frame and adapted to swing upon a vertical pivot relative thereto, steering wheels at the end of the

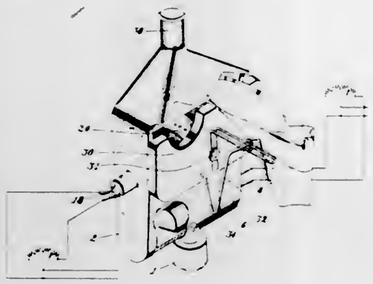
frame opposite the motor section, a segment formed upon the motor section concentric with the pivot of the motor section, a pinion engaging the segment for swinging the motor section upon its pivot, means for engaging the segment to lock the motor section rigid with the frame, and means to move the wheels opposite the motor section for steering purposes.

1,341,182. PLOW. CHARLES KINNEY, Elmira, N. Y., assignor of one-half to Louise May Ostrander, Elmira, N. Y. Filed Aug. 12, 1919. Serial No. 316,959. 6 Claims. (Cl. 97—36.)



1. A plow comprising a vehicular structure, a frame pivoted to the vehicular structure at spaced points and adapted to swing in a vertical plane, a plow beam connected with the frame by means of a sliding engagement, means independent of the frame to raise and lower the plow relative to the vehicular structure, and means to regulate the depth of the plow.

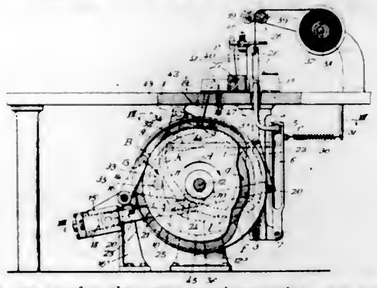
1,341,183. SOFTENING APPARATUS. BERNARD S. LEE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 7, 1918. Serial No. 257,219. 10 Claims. (Cl. 12—1.)



1. An apparatus of the character described comprising a casing, means for supporting a shoe with a part thereof in said casing, means for generating heat in a body of liquid in said casing to produce vapor, and means arranged directly in the path of the vapor for superheating the vapor.

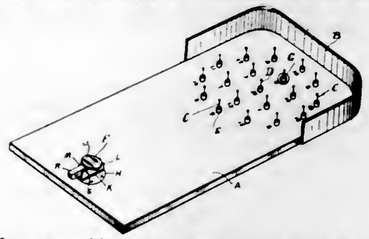
1,341,184. PAPER-FEEDING DEVICE FOR WRAPPING-MACHINES. RICHARD LEUMANN, Chailly sur Lausanne, Switzerland. Filed Apr. 30, 1919. Serial No. 293,794. 5 Claims. (Cl. 93—2.)

1. A paper feeding device of the character described, comprising gripping means adapted to seize the end of a strip of paper, cutting means for severing a length from the strip seized, a member operatively connected to said gripping means, and means for directly acting upon said member in order to cause a determinate length of strip to be passed by said cutting means and to cause an additional movement to the length of paper severed by said



cutting means, for the purpose of centering said cut off strip with regard to the article to be wrapped in it.

1,341,185. GAME-BOARD. ADONIS GEORGE EDWARD LOWMAN, Winnipeg, Manitoba, Canada. Filed Mar. 6, 1919. Serial No. 280,916. 2 Claims. (Cl. 46—59.)



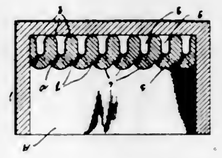
1. In a game board, a projector comprising two spaced flanges, a pivoted carrier and pitching plate pivotally connected to and mounted between said flanges, and a lever extending between and pivotally connected to the flanges having one end engaging beneath said carrier and pitching plate; both the lever and the pitching plate thus being normally maintained together in horizontal position—the other end of the lever being extended so as to provide an operating means.

1,341,186. PROCESS OF PRINTING NUMBERED BANDS. GEORGE J. MCCLOSKY, Washington, D. C., assignor to Columbian Printing Company, Inc., Washington, D. C., a Corporation of the District of Columbia. Filed Feb. 4, 1920. Serial No. 356,219. 5 Claims. (Cl. 101—426.)



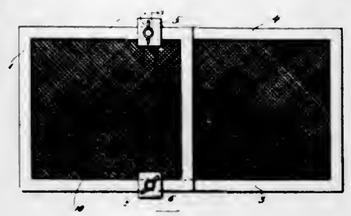
1. The process of printing numbered bands serially numbered, which consists in printing in duplicate upon sheets of sufficient size to cut up into a number of bands figures starting with any number and advancing in the desired series to show a serial number on each band when cut, and subsequently printing on said sheets at the left hand of the figures thereon other figures commencing with any number and advancing with each sheet printed.

1,341,187. SUPERFLOOR STRUCTURE. ADAM A. MCPHEETERS, Cananea, Mexico. Filed July 8, 1918. Serial No. 243,776. 3 Claims. (Cl. 23—31.)



1. A superfloor structure of the character described whose upper face is formed with parallel rows of gently arched corrugations with shallow channels between them, whose lower face is formed with parallel rows of ribs having deep channels between them, and whose body has holes extending obliquely therethrough from each lower channel to the two nearest upper channels.

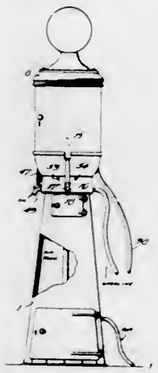
1,341,188. ADJUSTABLE SCREEN. ANDREW MANYAK and MARY MANYAK, Nanty Glo, Pa. Filed Sept. 29, 1919. Serial No. 327,024. 1 Claim. (Cl. 156—38.)



In a device of the class described a plurality of sections having frame members containing screens, means for slidably retaining said members in adjustable position, said means consisting in having the upper and lower frame members of one of said sections extended and overlapping the corresponding frame members of an adjacent section, the latter adapted to slide in the former, and means for locking said sections in position comprising wing screws rotatable in the said frame members in said first-named section, said screws passing through said frame members and the stems thereof engaging said corresponding frame members, the ends of said stems being widened and having tips of rubber thereon, said tips adapted to be clamped against said corresponding frame members.

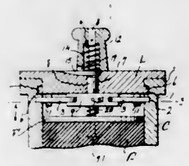
1,341,189. LIQUID-MEASURING DEVICE. JOHN DEWITT MEREDITH, Wichita Falls, Tex. Filed Aug. 7, 1917. Serial No. 184,848. Renewed Apr. 16, 1920. Serial No. 374,490. 6 Claims. (Cl. 221—99.)

1. In a dispensing device, a casing having a recess, a transparent repectacle disposed within the casing, a liquid container communicating with the interior of said receptacle, a valve in the connecting pipe between the container and the receptacle, a lever for operating the valve, said lever being normally disposed in the recess of the



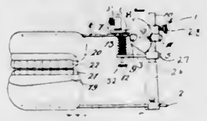
casing, and a slidable door carried by the casing for hiding the valve lever and the transparent receptacle and for locking the lever in said recess.

1,341,190. LID FOR GREASE-CUPS. JACOB H. MILLER, Cresson, Pa. Filed Dec. 17, 1919. Serial No. 345,557. 7 Claims. (Cl. 184—88.)



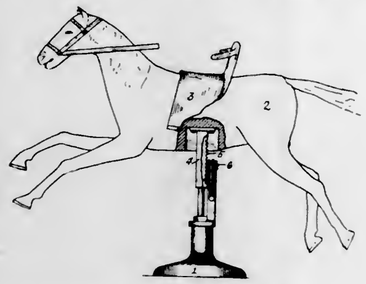
4. In combination with a grease cup provided with substantially opposed recess in its inner face, a lid for said cup, a stem disposed through said lid, latch members carried by the lid, said latch members being operatively engaged with the stem so that said latch members are either extended or retracted upon requisite rotation of the stem, said latch members when extended engaging within the recesses of the cup, and means carried by the stem and coacting with the lid for normally holding the stem against movement when the latch members are either in extended or retracted position, said cup being also provided with bayonet slots, the recesses of the cup being positioned adjacent the closed ends of the bayonet slots, said lids having lugs engaging within the bayonet slots, said latch members being so positioned upon the lid to engage within the recesses when the lugs of the lid are at the closed ends of the slots.

1,341,191. DENTAL ARTICULATOR. ICHIGORO NAKAHARA, Tokyo, Japan. Filed Sept. 14, 1918. Serial No. 254,100. 4 Claims. (Cl. 32—1.)



1. In a dental articulator, an upper jaw mold holder comprising a relatively fixed member, a movable member connected thereto for vertical pivotal movement and also for lateral rocking movement, and adjusting means carried by the relatively fixed member, to control and determine the extent of such lateral rocking movement.

1,341,192. BARBER'S CHAIR FOR CHILDREN. DAVID OPPENHEIM, New York, N. Y. Filed May 27, 1919. Serial No. 300,062. 1 Claim. (Cl. 155—25.)



A barber's chair for children's use comprising a sculptured figure, a seat thereon, arms and a back on said seat, a pedestal carrying the figure, means interposed between the pedestal and the figure for raising and lowering the latter in a vertical line and means for locking the same at any desired point, the said figure being stationary with respect to the base when in use.

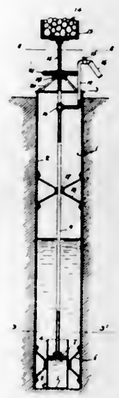
1,341,193. PLIERS. RICHARD H. OWEN, Lexington, N. C. Filed June 6, 1918. Serial No. 238,518. 1 Claim. (Cl. 7—4.)



In a device of the kind described, a pair of pivoted shanks including handles and coöperating jaws, means for pivotally connecting the shanks to permit the jaws to be adjusted with relation to each other, one of the shanks having a notch formed in one of the edges thereof, said notch coöperating with the rear edge of the adjacent shank for providing clippers, the relative positions of the notch, its coöperating cutting edge, and the jaws are such that cutting action will be permitted throughout the range of adjustment of the distance between the jaws.

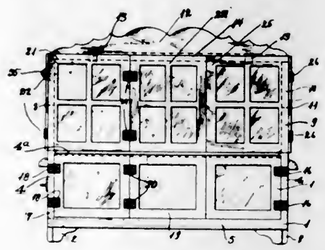
1,341,194. PUMP. ARTHUR PETROV, Wapella, Saskatchewan, Canada. Filed Dec. 23, 1919. Serial No. 346,930. 5 Claims. (Cl. 103—62.)

5. In a well, a cylinder permanently fixed in the bottom of the well and having a closed lower end, a normally closed inlet valve located at the bottom of the cylinder, a piston operatively mounted for reciprocating movement within the cylinder, a main vertically extending water pipe carrying the plunger and opening to the interior of the cylinder through the plunger, an offset discharge pipe communicating with the upper end of the main pipe and extending out of the well, a valve controlling discharge from the upper end of the discharge pipe, a jack screw vertically alined with the main pipe and permanently connected thereto and extending upwardly out of the well, a weight box mounted on the upper end of the jack screw,



a permanently supported bearing plate surrounding the jack screw outside the well and a hand wheel operatively mounted on the jack screw above the bearing plate.

1,341,195. COLLAPSIBLE BOOKSTAND. PETER PIENTA, Linfield, Pa. Filed Feb. 17, 1920. Serial No. 359,331. 2 Claims. (Cl. 45—78.)

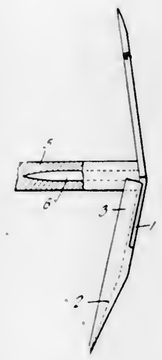


1. A collapsible bookstand comprising a base, a lower frame mounted upon said base, an upper frame hingedly mounted upon said lower frame, rigid side walls on said lower frame, collapsible side walls hingedly attached to said rigid side walls comprising a plurality of folding members, means for retaining said collapsible side walls in secure extended position; doors for the front of said upper frame, detachable hinges for mounting said doors in said upper frame, and doors in said lower frame.

1,341,196. GARDEN-TOOL. ROSS PRUETT, Jacksonville, Ala. Filed Mar. 24, 1919. Serial No. 284,745. 1 Claim. (Cl. 55—39.)

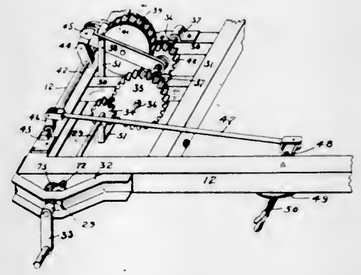
A garden tool including a V-shaped blade the wings of which have their edges in planes converging, a shank extending from the blade and bisecting the angle between the wings, the back face of the shank and a portion of

the blade being parallel with the plane of the forward edges of the wings, the said wings merging, between the



point of the blade and the space between the wings, along a line converging downwardly to the plane occupied by the front edges of the wings.

1,341,197. TRUCK. FRANK H. REYNOLDS, Sioux City, Iowa, assignor, by mesne assignments, to Ideal Removable Body Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1917. Serial No. 186,847. 13 Claims. (Cl. 214—38.)



1. In a freight-truck, a truck-frame, a wheeled body movably mounted thereon, a rack mounted below the body, a pinion yieldably supported on the truck-frame and engageable with the rack, a second pinion intermeshed with said first pinion, means for driving said pinion and means for raising and lowering said first pinion to engage and disengage it with and from the rack.

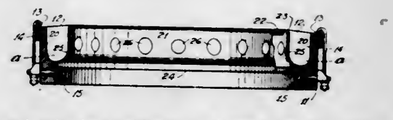
1,341,198. BRACKET. GEORGE A. RUPLE, San Francisco, Calif. Filed Aug. 25, 1919. Serial No. 320,043. 6 Claims. (Cl. 248—19.)

1. A bracket comprising a vertically disposed member having splayed hooks on the upper end thereof to engage a molding or the like; a sleeve slidably mounted upon the vertical member; a screw mounted within the sleeve to engage the vertical member and thereby secure said sleeve against movement on said member, said screw operating as a suspending member to engage picture wires or the



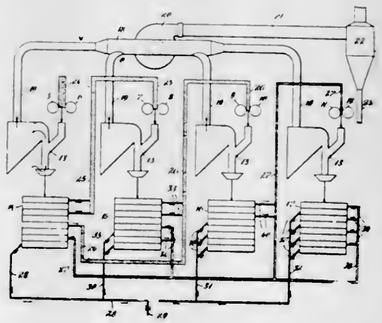
like; and a bracket detachably mounted upon the sleeve and having a hook on the outer end thereof.

1,341,199. BANJO. CIRO DELLO RUSSO, New York, N. Y. Filed June 26, 1919. Serial No. 306,820. 5 Claims. (Cl. 84—121.)



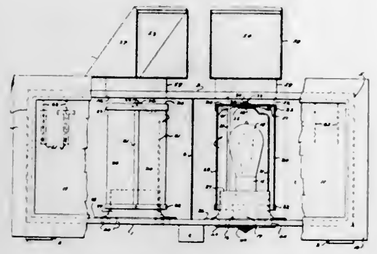
1. In a banjo, in combination, a wood rim supporting a drum head, a disk having turned over edges to form a wall inclosed within said rim, an annular ridge on said disk formed where said wall is turned over, and said drum head stretched over said ridge.

1,341,200. COFFEE-CUTTING. EDWARD F. SCHNUCK, Greenburg, N. Y. Filed Jan. 2, 1920. Serial No. 348,867. 8 Claims. (Cl. 83—42.)



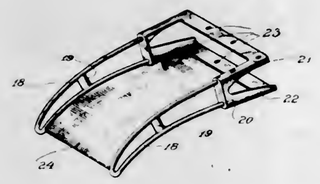
1. The process of cutting coffee which comprises passing the coffee beans between cutters, removing from the product of such cut the chaff freed by such cutting, separating from the cut and cleaned product the granules which have been reduced by such cutting to the required fineness and passing the remainder of the cut product freed of the chaff between finer cutters and removing the chaff and separating out the granules of the requisite fineness after each cutting.

1,341,201. ILLUMINATED DISPLAY APPARATUS. OSCAR SPERLING, New York, N. Y. Filed July 14, 1919. Serial No. 310,752. 15 Claims. (Cl. 40—132.)



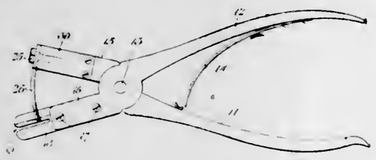
1. An apparatus of the class described, comprising in combination a casing, plural sources of light therein, a display field illuminated from said light sources, varicolored transparent members rotatable around the latter, and an opaque partition dividing said casing so that said members are separated in such a manner that the rays of light passing through them are prevented from interblending while continuous colored waves are thrown dividedly upon said display field.

1,341,202. PROPELLER MUD-GUARD FOR AEROPLANES. NEIL ALFRED STRAND, Brooklyn, N. Y. Filed Apr. 3, 1920. Serial No. 371,023. 5 Claims. (Cl. 244—2.)



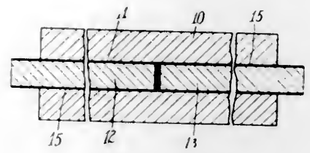
1. In combination with an aeroplane having landing wheels in close proximity with its propeller, a propeller mud guard provided above said wheels, comprising a substantially U-shaped frame composed of two parallel double beams reinforced at substantially their centers by a web-connection, a V-shaped double bracket adapted to be fastened to the aeroplane wings above said wheels, said double-beams attached to said bracket, and a wire netting spread between said beams and extending to the lower end of said bracket.

1,341,203. SHOE-BUTTON REMOVER. JOSEPH VERTUNNI and ORLANDO S. ELLER, Long Beach, Calif. Filed Apr. 30, 1919. Serial No. 293,997. 8 Claims. (Cl. 218—27.)



1. A shoe button remover for pulling stapled buttons from shoes comprising a retaining plate of proper shape and size to slip between the eye of the button and the surface of the shoe on either side of the staple; a pulling wedge of proper size to enter said staple under said eye and pull it from the shoe; and means for forcing said wedge across said plate.

1,341,204. PROCESS OF PREVENTING CORES FOR TUBULAR BODIES FROM WELDING. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Filed Jan. 17, 1919. Serial No. 271,611. 5 Claims. (Cl. 80—62.)



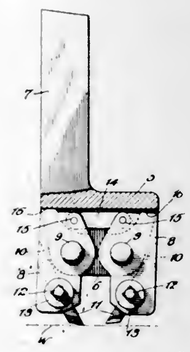
5. The process of making tubular bodies which comprises coating a core body with non-welding metallic material, introducing same into a bored billet of material similar to the core body, elongating and reducing the cross section of billet and core as by rolling, and withdrawing the core from the tubular body produced.

1,341,205. MANUFACTURE OF MULTIPLE BEARINGS. CHARLES W. BARNABY, New York, N. Y. Original application filed Oct. 28, 1916, Serial No. 128,248. Divided and this application filed Jan. 29, 1919. Serial No. 273,866. 1 Claim. (Cl. 29—148.)



The method of constructing a curved multiple bearing which consists of the preparation of a straight blank provided with a straight longitudinal duct, bending said blank, and transversely slotting said blank across said duct.

1,341,206. TOOL-HOLDER. OTTO CRONAU, New York, N. Y. Filed July 29, 1919. Serial No. 314,076. 7 Claims. (Cl. 90—53.)



1. A tool holder of the character described, including a body, opposed oscillatable members mounted on said body and having their pivotal centers laterally spaced from each other, a cutting bit carried by each of said members, and a non-yieldable connection between the bit carrying members to cause the unitary oscillation of said members and disengage one of the cutting bits from the work simultaneously with the engagement of the other cutting bit therewith when the reciprocating movement of the holder is reversed.

1,341,207. EXPLOSIVE PROPELLENT POWDER. FRANCIS I. DU PONT, Wilmington, Del. Filed Apr. 28, 1919. Serial No. 293,099. 8 Claims. (Cl. 52—3.)

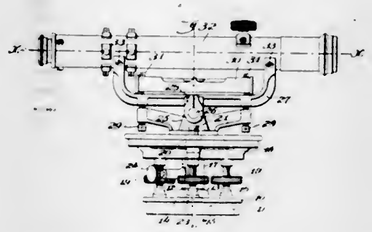
2. An explosive capable of use as a propellent in a gun, containing a greatly preponderating proportion of ammonium nitrate in finely divided form, embedded in a relatively small proportion of an ingredient forming a matrix which when hardened produces a hard, substantially non-porous mass.

1,341,208. ORE LEACHING AND SETTLING TANK. RUDOLF GAHL, Miami, Ariz. Filed May 23, 1918. Serial No. 236,174. 7 Claims. (Cl. 210—3.)



1. An ore settling tank of considerably greater length than width adapted to contain large quantities of ore and liquid, a liquid overflow launder near the top of the tank, means for delivering slimes into the tank, means for elevating and delivering settled material from the bottom of the tank, said means comprising a float, and slime-elevating and delivering apparatus carried thereby.

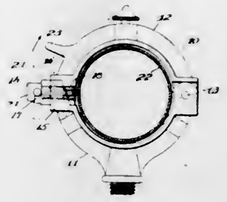
1,341,209. DUMPY-LEVEL. CARL HEINRICH, Somerville, Mass., assignor to Bertrand L. Makepeace, Inc., a Corporation of Massachusetts. Filed June 30, 1919. Serial No. 307,848. 3 Claims. (Cl. 33—73.)



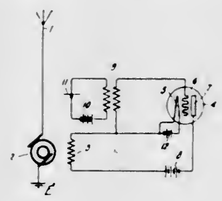
1. In an instrument of the class described, a telescope; a level; a carrier to which said telescope is rigidly attached and said level adjustably attached; a pivot midway of the length of said carrier and transversely thereof about which said carrier may be swung in a vertical path; a revoluble support upon which said carrier is pivoted having a pivot stud depending therefrom about which said support is adapted to be swung in a horizontal plane; radial arms extending from said support having combined adjusting and clamp screws in the ends thereof adapted to engage said carrier whereby said carrier may be adjusted relatively to and firmly clamped with said support; and means to bodily adjust the above named elements simultaneously.

1,341,210. LOCKING DEVICE FOR SURVEYING INSTRUMENTS AND THE LIKE. CARL HEINRICH, Somerville, Mass., assignor to Bertrand L. Makepeace, Inc., a Corporation of Massachusetts. Filed June 30, 1919. Serial No. 307,849. 10 Claims. (Cl. 24—248.)

1. In a locking device of the class described, a standing part, a movable part, a locking means attached to said standing part comprising a circularly movable threaded member capable of advancing and retracting in the direction of its axis a partial rotation of which enables it to positively engage both of said parts, and means to limit the rotation of said locking means for the locking and unlocking movements thereof.

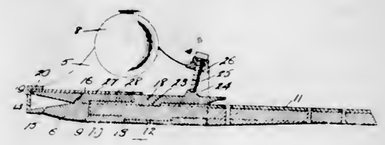


1,341,211. MODULATION OF HIGH-FREQUENCY CURRENTS. RAYMOND A. HEISING, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Aug. 25, 1915. Serial No. 47,332. 12 Claims. (Cl. 250—6.)



1. The method of controlling the amplitude and distortion of the output waves of an alternating current generator having a winding supplied with current, part at least of the energy of which current is employed in the production of said output waves, which method comprises generating control currents, causing a part of the energy of said supplied current to be absorbed without inductive action, and simultaneously variably controlling the energy thus absorbed in accordance with said control currents.

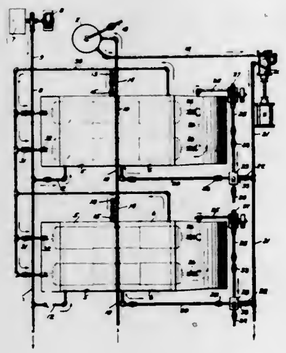
1,341,212. SICKLE-BAR HEAD FOR MOWING-MACHINES. FURMAN HUFF, Marysville, Calif. Filed Jan. 27, 1920. Serial No. 354,464. 6 Claims. (Cl. 56—303.)



6. A sickle bar head of the class described including a longitudinal groove, a recess midway its length, a sickle bar having a projecting shank for insertion in said groove, a rib and recess on alternate sides of said shank, said rib adapted to fit the recess of the groove, a clamping plate fulcrumed at one end of the groove, spaced recesses formed on the underside of said plate, the partition between said recesses fitting the recess in the shank, means for nor-

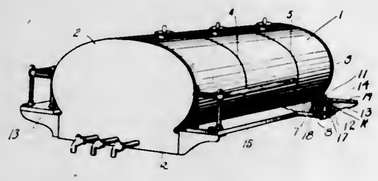
mally holding the plate in locked position, and spring means for tilting the plate when the locking means is released.

1,341,213. STEAM-BOILER ECONOMIZER AND METHOD OF OPERATING SAME. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Original application filed Dec. 8, 1914, Serial No. 876,013. Divided and this application filed Jan. 3, 1918. Serial No. 210,213. 6 Claims. (Cl. 122—421.)



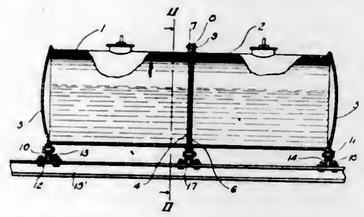
1. The method of operating a plurality of boilers consisting in first dividing the main supply of water and passing the separated portions thereof through corresponding economizer sections, collecting the several portions of the water so heated and distributing it and mingling the several portions with water from the boilers containing corrosion preventing elements, and then forcing the mingled volumes through other corresponding sections of the economizers at a higher pressure than the first sections, and thence into the corresponding boiler, whereby the water drawn from a given boiler is returned to that boiler and corrosion of the economizer minimized through the action of the corrosion preventing elements and the heat of the boiler water.

1,341,214. TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas City, Mo. Filed Dec. 22, 1919. Serial No. 346,714. 6 Claims. (Cl. 280—5.)



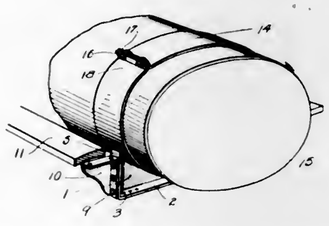
5. A sheet for engaging the tubular body portion of a tank, the sheet having an integral bolster for supporting the tank, a laterally projecting sill-engaging flange on the bolster, and a vertical, laterally projecting bracket-supporting flange on the end of the bolster, in combination with a bracket having a horizontal flange and a vertical flange, the vertical flange resting against and secured to the vertical flange of the bolster, the lateral flange of the bracket forming a can rack support.

1,341,215. VEHICLE-TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas City, Mo. Filed Jan. 23, 1920. Serial No. 353,525. 7 Claims. (Cl. 280—5.)



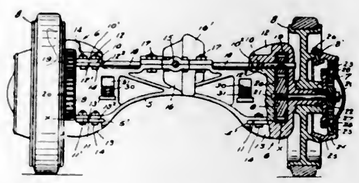
5. A tank comprising a plurality of complete, alining sections having end sheets extending beyond the walls of the sections, channels having vertical flanges connected to the projecting portions of the end sheets, and longitudinal sills supporting the lateral flanges of the channels.

1,341,216. TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas City, Mo. Filed Feb. 9, 1920. Serial No. 357,238. 6 Claims. (Cl. 280—5.)



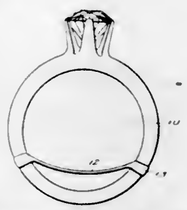
5. A bolster having a vertical web, and a tank-engaging band, the width of which is arranged at right angles to the width of the bolster, said band being secured to the top edge of the bolster.

1,341,217. DRIVING MECHANISM FOR MOTOR-VEHICLES. WILLIAM O. KUHN, Seattle, Wash. Filed June 6, 1918. Serial No. 238,429. 1 Claim. (Cl. 74—7.)



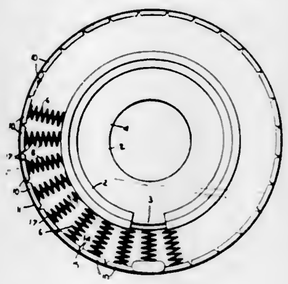
In a vehicle, the combination with the road wheels, internal gears provided thereon and an axle comprising a central section, two end sections having integral therewith hollow spindles for the respective road wheels, said end sections being formed with bifurcations to embrace the extremities of said central section and afford spaces between the ends of the central section and the respective end sections, and means for rigidly securing the axle's end sections to its central section, of differentially controlled driving shafts, stub shafts journaled in the respective spindles, gears provided in the aforesaid spaces for operatively connecting the driving shafts with the stub shafts, and gears operatively connecting said stub shafts with the internal gears of the road wheels for driving the same.

1,341,218. FINGER-RING GUARD. HARRIS LEVIN, New York, N. Y. Filed Apr. 11, 1917. Serial No. 161,192. 1 Claim. (Cl. 63—17.)



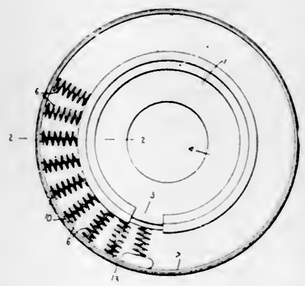
A finger ring guard consisting of an endless metallic element bent so as to form a curve, the convex portion of which is adapted to face the lower portion of the ring when the guard is attached thereto, the metal of the parts adapted to come in contact with the ring being of soft metal and the intermediate portions consisting of spring metal.

1,341,219. AMUSEMENT APPARATUS. HERBERT N. RIDGWAY, Winthrop, Mass. Filed Nov. 11, 1919. Serial No. 337,351. 9 Claims. (Cl. 46—27.)



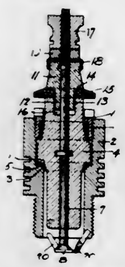
6. The combination with a car adapted to travel in any direction, of an annulus carried by the car and surrounding the latter but spaced therefrom and comprising a plurality of flexibly-connected blocks, and springs interposed between said car and said blocks.

1,341,220. AMUSEMENT APPARATUS. HERBERT N. RIDGWAY, Winthrop, Mass. Filed Nov. 11, 1919. Serial No. 337,352. 6 Claims. (Cl. 46—27.)



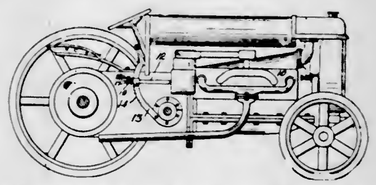
1. In an amusement device, the combination with a car adapted to travel in any direction, of a plurality of radially-arranged coiled springs situated exterior to the car and secured at their inner ends thereto, and a flexible metallic band encircling said springs and secured to the outer end of each spring.

1,341,221. SPARK-PLUG. CHARLES C. SNODGRASS, Pittsburgh, Pa. Filed Mar. 5, 1919. Serial No. 280,706. 2 Claims. (Cl. 123—169.)



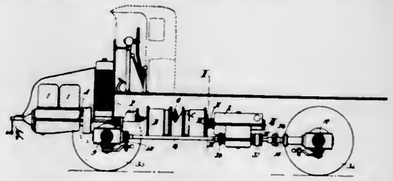
1. In a spark-plug, the combination of a suitable shell or casing, a lower porcelain supported therein, an upper and separate porcelain connected to said lower porcelain, said upper porcelain being entirely above said shell or casing, and a disk of insulating material interposed between said porcelains and extending beyond the greatest diameter of said lower porcelain.

1,341,222. CLUTCH CONTROL FOR TRACTORS. BURTON A. SPINNEY, Des Moines, Iowa. Filed May 8, 1919. Serial No. 295,756. 10 Claims. (Cl. 74—81.)



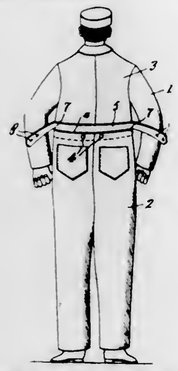
1. In a device of the class described, a clutch lever, a foot pedal thereon, an adjustable locking device mounted on said lever, a coacting locking device, means for normally holding said locking device in position for holding said lever in any of its adjusted positions, against movement in one direction, and a member on said movable locking device adapted to be engaged by the foot whereby the foot pedal is operated for moving said locking members out of operative engagement and means for holding said movable locking device in inoperative position, whereby said clutch lever may be operated independent of said locking device.

1,341,223. TRANSMISSION OF POWER. JOHN G. P. THOMAS, London, England, assignor to The Thomas Foreign Patents Limited, London, England. Filed Aug. 28, 1916. Serial No. 117,255. 6 Claims. (Cl. 74—34.)



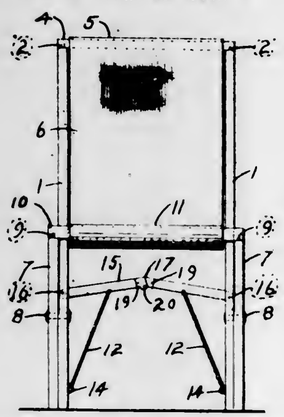
1. A mechanism for the transmission of power in a motor vehicle comprising in combination a differential gearing, means for supplying power to one member of said gearing, a driving connection between one running wheel of the vehicle and a second member of said gearing, and a second driving connection between a second running wheel of the vehicle and the remaining member of said gear, and means for disconnecting one of said driving connections and locking the member of said gearing connected to said driving connection.

1,341,224. UNION-OVERALLS. GEORGE L. CAMPBELL, Springfield, Mo. Filed Nov. 3, 1919. Serial No. 335,314. 3 Claims. (Cl. 2—144.)



1. In a union garment provided with a drop seat, there being buttonholes in the waistband thereof, buttons on the blouse part, and, in combination therewith a curtain stitched to said blouse part immediately above said buttons by its upper edge across the back, said curtain being of a width merely sufficient to conceal said buttons, and being prolonged as free ends so as to come to the front of the wearer and give the appearance of a belt, said belt being provided with stays where the free ends begin, and securing means for said belt.

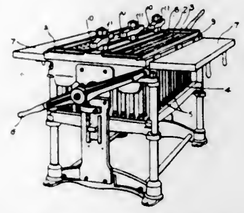
1,341,225. COLLAPSIBLE FURNITURE. ALFRED N. CLOUGH, Sunnyvale, Calif., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif., a Corporation of Nevada. Filed Sept. 12, 1919. Serial No. 323,298. 5 Claims. (Cl. 155—143.)



1. An article of the character indicated comprising two pairs of pivotally connected and crossed side members, a removable spacing member for the upper ends of each pair of corresponding side members, a flexible member supported by said spacing members, a breakable spacing member pivotally connected to two corresponding side members, and flexible means acting under tension for securing said breakable spacing member in an extended position.

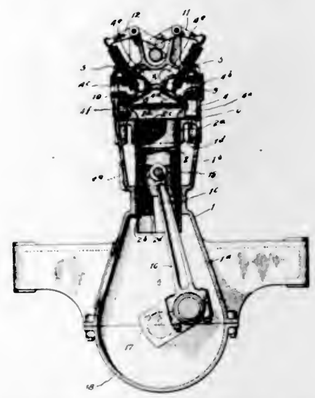
1,341,226. MACHINE FOR MOLDING TABLETS OF COMPRESSED FOOD AND THE LIKE. WILLIAM H. DAY, Hounslow, London, England. Filed Jan. 4, 1919. Serial No. 269,593. 4 Claims. (Cl. 107—17.)

1. A machine for molding tablets of compressed food and other articles comprising a receiving trough for the material to be compressed, a mold plate forming the bottom of said receiving trough, a series of molds mounted in said mold plate, a piston head, a series of pistons mounted on said piston head adapted to register with said molds, and a compression plate in the form of a pair of



plates hinged to the top of the machine and adapted to cover the mouths of the molds in the bottom of the trough during the operation of molding the tablets of compressed food between the compression surface of said plate and the compression faces of the pistons.

1,341,227. INTERNAL-COMBUSTION ENGINE. JAMES E. DIAMOND, Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed June 14, 1917, Serial No. 174,698. Divided and this application filed Apr. 1, 1918. Serial No. 226,089. 7 Claims. (Cl. 123—193.)



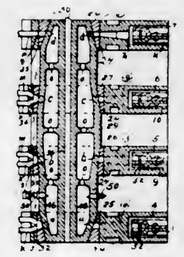
1. In an internal combustion engine the combination of a frame casting of light weight metal having a high coefficient of thermal expansion in comparison with iron and comprising water jacket walls for the engine cylinder, and a cylinder sleeve separately formed of wear resisting metal having a coefficient of thermal expansion approximating that of the frame casting, said casting being integrally united to the upper and lower ends of the cylinder sleeve by being cast thereon to form a cooling water space to which the outside of the cylinder sleeve is directly exposed.

1,341,228. KEY-RING. FREDERIK FISCHER, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,479. 1 Claim. (Cl. 59—99.)



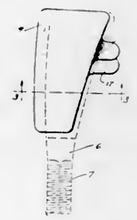
A split key ring having its ends spaced apart and one end threaded, and a sleeve to bridge said space, said sleeve having an internally threaded portion at one end of reduced diameter and its other end portion smooth bored, the other end of the ring having its extremity reduced to permit it to enter the reduced threaded end portion of the sleeve when the latter is withdrawn to uncover the space in the ring.

1,341,229. GAS-TURBINE. OSCAR FRYKMAN, Monessen, Pa. Filed Nov. 3, 1919. Serial No. 335,362. 8 Claims. (Cl. 60—41.)



1. In a gas-engine, a casing having a series of compartments, a turbine wheel in each compartment, a shaft to which the turbine wheels are secured, a rotatable drum divided into radial chambers, means for rotating the drum, means admitting an explosive charge to each chamber at one stage of the rotation of the drum, means for exploding the charge at another stage thereof, means admitting the expanding exploded gases into driving engagement with each of the turbine wheels, and means for permitting the exhaust products in the casing compartments to escape.

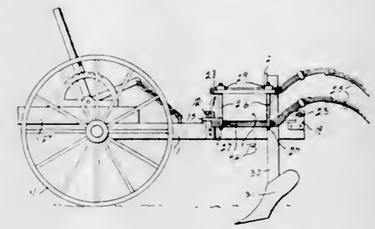
1,341,230. SHOE FOR THRESHING-MACHINE TEETH. WILLIAM FRANCIS HAMILTON, Ventura, Calif. Filed Sept. 3, 1919. Serial No. 321,335. 2 Claims. (Cl. 130—27.)



1. In a threshing mechanism, the combination with a threshing tooth having a forward operating face and corresponding side faces, of an enlarging filler shoe having an inner recess conformable to the forward and side faces of said teeth and having an outer forward face substantially parallel to the operating face of said tooth and outer side faces substantially parallel with the side faces of said tooth.

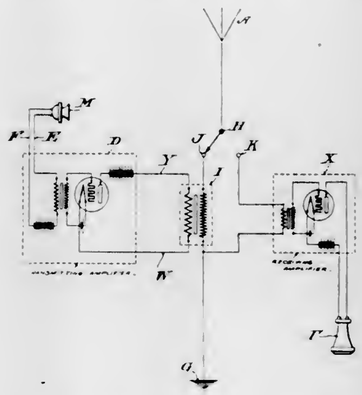
1,341,231. AGRICULTURAL IMPLEMENT. CARROLL C. HAMILTON, Ontario, Calif. Filed Dec. 1, 1919. Serial No. 341,594. 3 Claims. (Cl. 97—34.)

1. An agricultural implement comprising a frame, a beam resting upon the frame and connected thereto for rocking movement, upstanding tongues carried by the frame at opposite sides of the beam, a pair of brackets carried by the beam, each of said brackets including a part provided with an opening, one of said brackets coacting with one of the tongues and the second bracket coacting with the second tongue, each of said tongues extending through the opening of a bracket when the beam is at substantially the limit of its movement in a direction



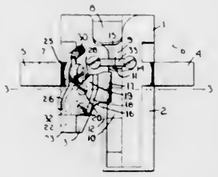
toward said tongue, a retaining member coacting with the tongue and the bracket for holding the beam against movement, and angularly related ground working elements carried by the beam.

1,341,232. WIRELESS TRANSMISSION OF SPEECH. EARL C. HANSON, Washington, D. C. Filed June 18, 1917. Serial No. 175,456. 1 Claim. (Cl. 179—82.)



In a wireless transmitting station, means for transmitting energy having a frequency not in excess of speech frequency through natural media, including a voice controlled input circuit, a vacuum tube relay connected with said circuit for amplifying the energy thereof, a transformer having its primary connected with the output circuit of said relay and its secondary connected to an antenna circuit.

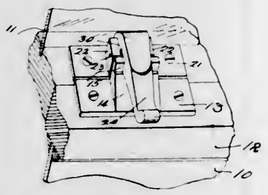
1,341,233. PRESSER-FOOT MECHANISM FOR BLIND-STITCH SEWING-MACHINES. THOMAS J. HAYES, Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass., a Corporation of Maine. Filed Feb. 28, 1917. Serial No. 151,427. 11 Claims. (Cl. 112—178.)



1. A presser foot for sewing machines for felling a superimposed layer upon a base layer of material, comprising

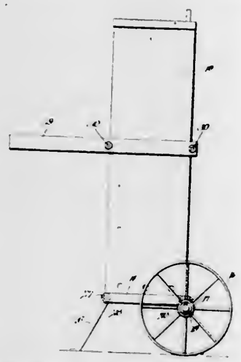
a heel portion and forwardly extending toe portions, a guide for the edge of the superimposed layer pivotally mounted upon said presser foot and rotatable about an axis extending substantially parallel to the line of stitching and releasable means for locking said guide in operative position whereby said guide may be swung aside to permit inspection of the work and to allow the passage of thick seams.

1,341,234. AUTOMATIC SASH-LOCK. JOSEPH B. HORTON, Tennille, Ga. Filed May 21, 1917. Serial No. 169,953. 1 Claim. (Cl. 292—336.)



In a sash lock, the combination with a keeper adapted to be secured on the upper rail of the lower sash; of a casing adapted to be secured on the lower rail of the upper sash, a lever having a hook for engaging said keeper when the lever is depressed, a trigger having a finger engaged by said keeper when the sashes are closed, said lever having spaced knuckles and said trigger a single knuckle between the spaced knuckles, all mounted on a common pivot within the casing, and a downwardly facing shoulder connecting the lever knuckles and an upwardly facing shoulder on the trigger knuckle, said shoulders being so disposed as to start the lever downward by the depression of the finger as the sashes close and permit it to fall into engagement with the keeper.

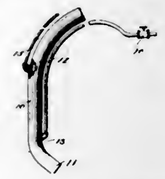
1,341,235. TRUCK FOR PORTABLE LIGHTS. ALEXANDER F. JENKINS, Baltimore, Md. Filed Jan. 30, 1918. Serial No. 214,520. 5 Claims. (Cl. 280—50.)



1. In combination, a portable-light tank having a rim at the bottom thereof, a two wheel truck and means for removably mounting the tank on the axle of the truck including a U shaped bearing clip the curved portion of which fits the axle and the arms straddle the rim, and a bolt for securing the arms to the flange.

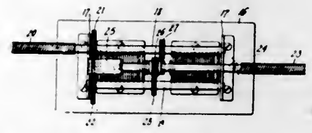
1,341,236. MEANS FOR PREVENTING CLOGGING OF SAND-PIPES. GEORGE HENRY JOHNSON, Hattiesburg, Miss. Filed Oct. 18, 1919. Serial No. 331,544. 2 Claims. (Cl. 291—43.)

1. The combination with a sand delivery pipe, of an air nozzle located therein adjacent to its discharge end, and directed toward said discharge end, a valved air supply pipe communicating with said nozzle, and a pressure exhausting pipe having communication at one end with



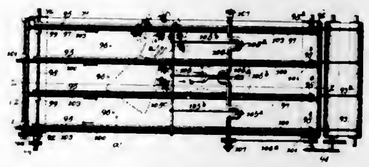
the said sand pipe at a point farther removed from the discharge end than the said nozzle.

1,341,237. GEARING. OSCAR KOLLER, New York, N. Y. Filed Apr. 10, 1919. Serial No. 288,939. 2 Claims. (Cl. 74—58.)



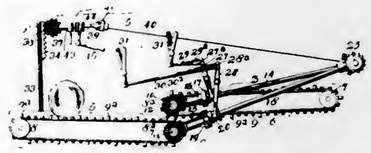
1. The combination with a rotatably mounted roller, of a motor, and a power transmitting device interposed between said motor and roller, comprising two spindles geared together and having each fixed thereto a pinion, said two pinions being out of alinement and one of said spindles being connected with said roller, a longitudinally shiftable shaft carrying a pinion adapted to mesh with either one of said first-mentioned pinions, said shaft being connected to the motor shaft, and electrically controlled means for shifting said first-mentioned shaft in either direction, at will.

1,341,238. SHEAF-DISTRIBUTER FOR THRESHERS. RALPH B. MASON, Somerset, Pa. Original application filed Mar. 2, 1918, Serial No. 219,990. Divided and this application filed Mar. 1, 1919. Serial No. 280,027. 10 Claims. (Cl. 193—48.)



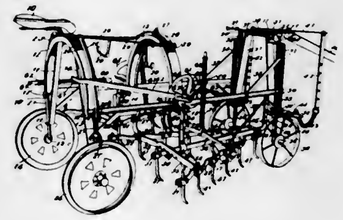
1. A sheaf distributer, arranged to coöperate with a thresher and to be driven thereby when arranged in such coöperation, comprising a uni-directionally movable sheaf forwarding member, and alternately continuously oppositely movable means for receiving sheaves discharged on the distributer at random and alining them on said sheaf forwarding member.

1,341,239. CONTAINER FOR SHEAF-LOADERS. RALPH B. MASON, Somerset, Pa. Filed Mar. 1, 1919. Serial No. 280,028. 5 Claims. (Cl. 214—83.)



1. Load shifting means for a sheaf loader, comprising a plurality of independently uni-directionally movable conveyer shafts, a conveyer actuated by each, and means actuated from one place for independently operating said shafts to produce a sideling load movement.

1,341,240. CULTIVATOR. RAY SQUIER MATTINGLEY, Rockport, Ind. Filed Dec. 4, 1919. Serial No. 342,356. 10 Claims. (Cl. 97—35.)



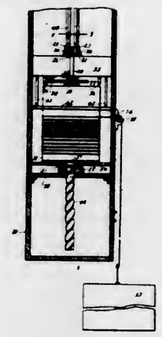
1. A cultivator of the character described, comprising a frame consisting of front, rear, and intermediate arch members and longitudinal members secured to said arch members, a pair of axles mounted on said front arch member, and a pair of axles mounted on said rear arch members, the axles of said pairs being mounted for rotary movement about their vertical axis, ground wheels one for each of said axles adapted for a swinging steering movement upon the rotary movement of said axles, means under the control of the driver for imparting steering movement to the rear wheels, means controlled by the draft to impart steering movement to said front wheels to maintain the plane of said wheels parallel to the line of the draft, cultivating means associated with said frame, and means for resiliently adjusting said cultivating means vertically with respect to said frame, all as and for the purpose set forth.

1,341,241. ANTISKID-CHAIN TIGHTENER. NIELS J. MAYLAND, Newell, Iowa. Filed May 23, 1919. Serial No. 299,086. 2 Claims. (Cl. 254—78.)



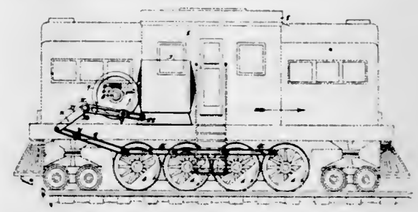
1. A tool for tightening an anti-skid chain, comprising a lever, a pair of hooks having their stems pivoted at one end to the lever and at opposite sides thereof with parallel spaced pivots whereby to swing in parallel planes at opposite sides of the lever, the bill of the hooks extending in the same direction, each at right angles to the plane of pivotal movement of its hook, and being longitudinally slotted, whereby to provide spaced claws.

1,341,242. FIRE-ESCAPE. AUGUST NIKANDER, Detroit, Mich. Filed Oct. 1, 1919. Serial No. 327,697. 8 Claims. (Cl. 254—151.)



2. In a fire-escape, a cable drum which is slidably and rotatably mounted, a support for the drum including a non-traveling nut, and a screw-stem turning with the drum and threaded through the nut.

1,341,243. ELECTRIC LOCOMOTIVE. CHARLES COLE POWERS, Kernville, Calif. Filed Dec. 9, 1919. Serial No. 343,656. 3 Claims. (Cl. 105—119.)



1. In a locomotive, an electric motor driven rotatable shaft, a transmission connecting the shaft and the driving wheels, said transmission including an oscillatable draw bar actuated through the rotary motion of the motor driven shaft, and a reciprocably operating bar that connects the oscillatable draw bar with one of the driving wheels.

1,341,244. HEDDLE. HENRY RUEGG, Jr., Weehawken, N. J. Filed July 16, 1919. Serial No. 311,147. 2 Claims. (Cl. 139—14.)



1. A heddle, comprising two superposed strips arranged in the plane of the warp thread, the strips having

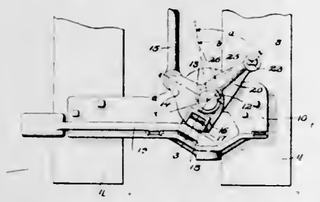
eye portions bent transversely in opposite directions and crossing each other, whereby a normally closed eye for the passage of the warp thread will be formed and the strips can be spaced apart to permit the thread to pass into said eye.

1,341,245. HEDDLE. HENRY RUEGG, Jr., Weehawken, N. J. Filed July 16, 1919. Serial No. 311,148. 5 Claims. (Cl. 139—14.)



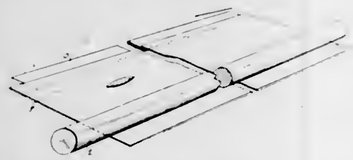
1. A heddle formed of a single strip provided with an eye for the passage of a warp thread, the eye being formed of two eye members integral with the strip and arranged one alongside the other, the eye being normally closed at top and bottom.

1,341,246. SWITCH MECHANISM. NEIL ENOS SALSICH, Bethlehem, Pa. Filed Sept. 30, 1919. Serial No. 327,439. 7 Claims. (Cl. 246—393.)



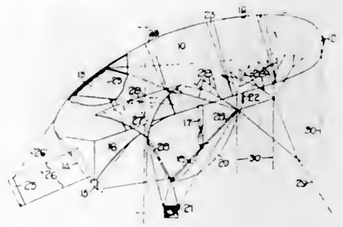
1. The combination with a switch stand, of an arm pivotally mounted at one end and having a rotatably mounted signal at the other, means connecting said arm and the switch stand mechanism whereby the arm is swung when the switch is thrown, and means operated by the swinging of said arm to turn the signal.

1,341,247. METHOD OF MANUFACTURING TIRE INNER TUBES. JEREMIAH J. SHOEMAKER and CHARLES C. COX, Akron, Ohio. Filed Mar. 8, 1919. Serial No. 281,379. 8 Claims. (Cl. 154—14.)
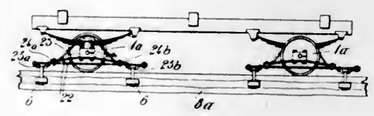


1. The method of manufacturing a rubber tire tube which comprises the steps of applying a strip of rubber to one lateral edge portion of a sheet of rubber, wrapping the sheet of rubber about a mandrel with their edge portions overlapped and with the strip covering the seam of the wrapping, subjecting the assemblage to a process of vulcanization, and stripping the product from the mandrel.

1,341,248. KITE-BALLOON. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 9, 1916. Serial No. 130,381. 11 Claims. (Cl. 244—4.)



2. In a balloon, a pair of separate balloon bodies longitudinally mated to form a composite balloon envelop; a separate ballonnet for each balloon body; a separate filling neck for each balloon body; and a basket and tail cup conjointly supported by and between said balloon bodies.

1,341,249. CONVEYING-TRUCK. KLAS AUGUST WIDEGREN and EMIL HENRIK WIDEGREN, Herserud, Sweden. Filed Feb. 5, 1919. Serial No. 275,267. 8 Claims. (Cl. 105—179.)

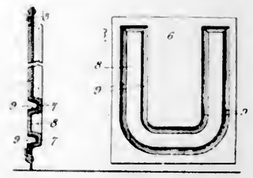


1. A conveying truck, comprising a truck frame, carrying wheels connected with said truck frame, bearing devices supporting said wheels and being swingable about a vertical pin, pairs of guiding wheels arranged in front of and behind said carrying wheels, and means for locking either of said pairs of guiding wheels in operative connection with a carrying wheel.

1,341,250. PAINT AND PROCESS OF MAKING THE SAME. JEAN WINGEN, Maastricht, Netherlands. Filed Feb. 12, 1919. Serial No. 276,639. 2 Claims. (Cl. 134—39.)

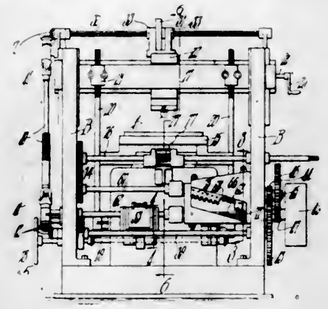
2. The herein described process of making paint or the like, consisting in mixing coloring matter with waste sulfite liquor, and adding amyl acetate to the waste sulfite liquor, to neutralize the smell thereof.

1,341,251. ILLUMINATED SIGN. JAMES G. ARNOLD, Toronto, Ontario, Canada. Filed June 24, 1919. Serial No. 306,292. 6 Claims. (Cl. 40—141.)



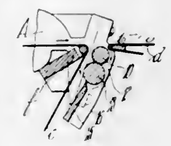
1. A sign character for illuminated signs having the character strokes formed of light transmitting material, with each stroke marginally outlined by separated hollow relief ribs of the same material.

1,341,252. MILLING-MACHINE. ALONZO LINTON BAUSMAN, Chicopee, and GEORGE SIMPSON PERKINS, Springfield, Mass., assignors to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1919. Serial No. 290,722. 4 Claims. (Cl. 90—15.)



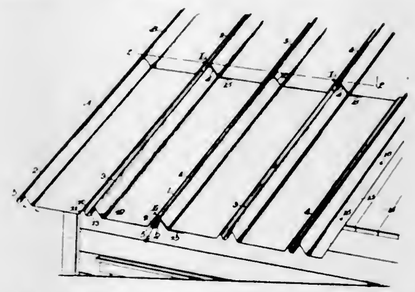
1. In a machine of the character described, a revoluble work support, mechanism to intermittently turn said support, a cross rail supported to parallel the face of said support, a carriage slidably mounted on the cross rail, a tool carrying slide on the carriage, said rail being so located that the tool may traverse the face of said support substantially diametrically on movement of said carriage, manually operable means to move the latter on the cross rail, and automatic means to feed said slide toward and away from the face of said support.

1,341,253. CONFECTIONERY-COATING MACHINE. ALONZO LINTON BAUSMAN, Chicopee, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed May 26, 1919. Serial No. 299,824. 4 Claims. (Cl. 91—2.)



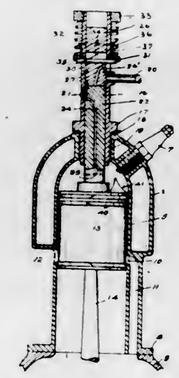
3. An attachment for confectionery coating machines, comprising, two bearing members for attachment in spaced relation to an end of the coating machine adjacent the exit of the conveying means thereof, two substantially contacting rolls mounted in said members one above the other, a scraper associated with the lower roll, and gearing connecting the rolls to turn in opposite directions.

1,341,254. ROOFING. ROBERT W. BLANTON, Ironton, Ohio. Filed Apr. 30, 1919. Serial No. 293,651. 8 Claims. (Cl. 108—20.)



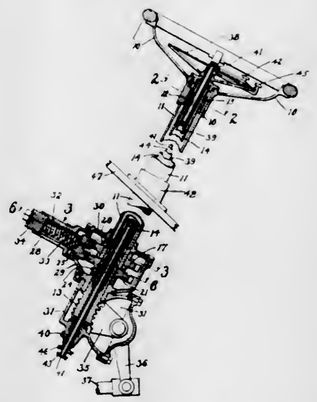
1. A roofing sheet, having a ridge parallel with one edge which is a lock ridge, another ridge parallel with the other edge, the part of the plate outside of this latter ridge serving as a nailing flange, and a longitudinal lock channel inside of and adjacent to this latter ridge opening downwardly and having an overhanging wall to receive a lock ridge corresponding to the above, as of a next sheet when applied.

1,341,255. ENGINE. ROBERT A. BLUME and PAUL F. C. WILCKE, Seattle, Wash.; said Wilcke assignor of one-sixth to said Robert A. Blume. Filed Feb. 17, 1919. Serial No. 277,674. 3 Claims. (Cl. 123—69).



1. An engine comprising a cylinder having a reciprocable piston therein, a tube extending upwardly from said cylinder in axial alinement therewith and communicating with said cylinder, said tube having a gas passageway formed in the walls thereof, a plunger secured to said piston and adapted to reciprocate within said tube said plunger being provided with a gas passageway having an opening in the peripheral wall thereof adjacent the upper end and adapted to register with the passageway in the wall of said tube and other openings in the peripheral wall thereof adjacent the lower end, a gas inlet conduit opening into said tube, and a piston valve movable within said tube said piston valve having a passageway adapted to register with said gas inlet conduit.

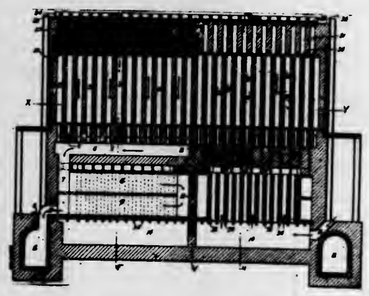
1,341,256. AUTOMATIC LOCKING DEVICE FOR STEERING-GEAR MECHANISMS. ALLEN BOROFSKY, Roxbury, Mass. Filed Apr. 18, 1918. Serial No. 229,279. 5 Claims. (Cl. 74—39.)



1. In a device of the character described, a main steering gear member provided with a locking member adapted to rotate therewith, an operating member for said main

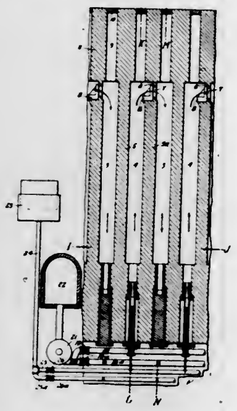
steering gear member provided with an unlocking member adapted to operate therewith, a common plunger member normally engaging with said unlocking member and adapted to be actuated thereby, coupling means floatably coupling said main steering gear member with said operating member and adapted to impart a rotating motion to the former, and means for frictionally engaging said common plunger member with said unlocking member.

1,341,257. COKE-OVEN. HENRY W. BUHLER, Boston, Mass. Filed Jan. 24, 1917. Serial No. 144,169. 8 Claims. (Cl. 202—9.)



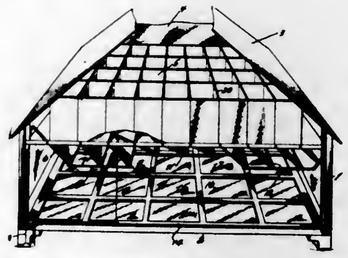
8. A heating apparatus having in combination a series of vertical combustion flues alternating with a series of vertical air flues, each member of one series being connected to a member of the other series, thereby forming a series of pairs each composed of a combustion flue and an air flue, connections between the upper ends of the members of each pair, and a recuperator located directly under the apparatus, together with direct connections from its air passages to the lower ends of the air flues and from its heating passages to the lower ends of the combustion flues.

1,341,258. COKE-OVEN. HENRY W. BUHLER, Boston, Mass. Filed Feb. 23, 1917. Serial No. 150,579. 4 Claims. (Cl. 158—7.)



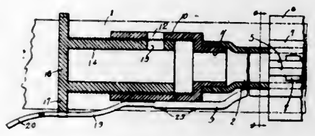
1. In a heating apparatus the combination of a central vertical burner tube open at the top, a source of combustible gas, means connecting the burner at its bottom to said source of combustible gas, an outer concentric burner having its upper end projecting beyond the inner tube, a source of practically inert diluent gas, and means connecting the lower end of said outer tube to said source of diluent gas.

1,341,259. SKYLIGHT ILLUMINATING DEVICE. LAWRENCE X. CHAMPEAU, Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 26, 1919. Serial No. 292,997. 6 Claims. (Cl. 88—58.)



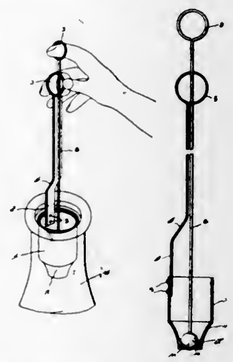
1. In a lighting apparatus, in combination, a skylight, and beneath it several pivoted shutters whose axes lie in different vertical planes, each shutter being light reflecting on one side of its pivot, means arranged to rock the shutters, and a cellular intercepter between the skylight and the shutters to direct the light on to the latter.

1,341,260. AIR CONTROL. HENRY M. CHEEK, Ferndale, Ark. Filed July 30, 1919. Serial No. 314,196. 1 Claim. (Cl. 251—91.)



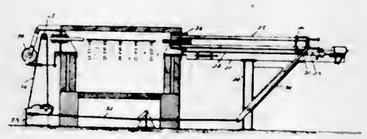
In a device of the class described, a support; an air tube extended along the support; a clamp engaging the support and the tube and provided with an arm having a tongue; a casing carried by the arm and communicating with the tube; and a valve threaded into the casing, the casing and the valve having coöperating ports, the tongue engaging the valve to hold the same against rotation.

1,341,261. CREAM-SEPARATOR. JERRIE CLARK, Springfield, Mass. Filed Aug. 29, 1919. Serial No. 320,687. 2 Claims. (Cl. 65—28.)



1. A cream separator comprising a receptacle having both ends open, a handle detachably secured to the receptacle for lowering said receptacle within the neck of a milk bottle, said handle off-set upwardly and inwardly intermediate its end to bring the remaining portion of the handle into vertical alinement with the center of said receptacle, said handle provided with its free end bent to form a finger grip, said finger grip provided with slots therein, said receptacle provided with its lower wall contracted to form a valve seat, a valve rod slidable through the slots of said finger grip, a ball secured to one end of the valve rod to coöperate with the valve seat to close the lower end of said receptacle to control the inflow and outflow of cream to and from the receptacle.

1,341,262. GLASS DRAWING AND CUTTING MECHANISM. IRVING W. COLBURN, Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company. Filed Feb. 4, 1914. Serial No. 816,589. 34 Claims. (Cl. 49—3.)



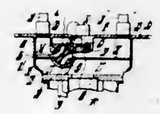
2. The combination with mechanism for longitudinally feeding a sheet of frangible glass, of means for cutting a transverse strip out of the sheet.

20. The combination of means for moving cutter across a sheet of glass and a cutter pivoted thereto to rock transversely to its line of travel as it moves over the glass.

25. The combination with means for drawing a sheet of plastic glass, bending it and feeding it in a horizontal plane until it is cooled to a frangible state, of automatic means for cutting the moving frangible sheet, a leer, and means for moving the cut sheets through the leer.
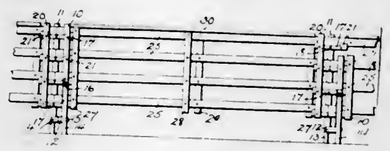
31. The combination with mechanism for scoring a sheet of glass of coöperating means for fracturing the sheet along the scored line.

1,341,263. LIQUID-DISPENSING APPARATUS. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1919. Serial No. 315,209. 10 Claims. (Cl. 221—100.)



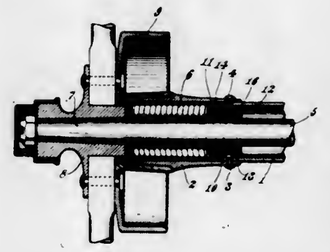
1. A liquid dispensing apparatus, comprising, a pump, two measuring cylinders, a member interposed between the pump and cylinders, chambers in said member one for each cylinder and constantly communicating therewith, a pump chamber in said member to receive the discharge from said pump, a delivery chamber in said member, and means to connect either one of said cylinder chambers to the pump chamber and the other to the delivery chamber.

1,341,264. PORTABLE FENCE. WILLIAM E. DAVIS, Morristown, N. J. Filed Sept. 3, 1919. Serial No. 321,340. 9 Claims. (Cl. 256—31.)



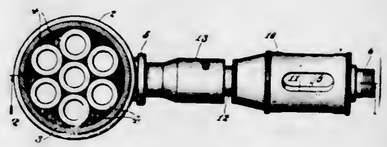
1. A fence comprising posts having vertical standards, horizontal supports pivotally connected to the standards whereby the supports can be tilted, and rails resting on the supports and held thereby against longitudinal movement.

1,341,265. AUTOMOBILE-AXLE CONSTRUCTION. CLARK A. DEAN, St. Louis, Mo., assignor, by mesne assignments, to Shurnuff Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Original application filed Nov. 13, 1915, Serial No. 61,276. Patent No. 1,224,449, dated May 1, 1917. Divided and this application filed Dec. 4, 1916. Serial No. 134,957. 3 Claims. (Cl. 286—7)



1. In an automobile axle construction having an axle inclosing housing, a stuffing box mounted in the housing, lubricant retaining packing in said stuffing box, means for retaining said stuffing box in the housing and coöperating means on said stuffing box and housing for preventing rotation of the stuffing box in the housing.

1,341,266. GAS-BURNING APPARATUS. HENRY V. DEEMAR, St. Louis, Mo. Filed Sept. 4, 1917. Serial No. 189,688. 2 Claims. (Cl. 158—99.)

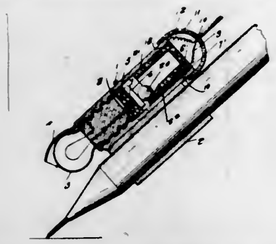


1. A gas burning apparatus, comprising, a casing forming an open mouthed gas chamber, adapted to permit unrestricted discharge of gas at its mouth, an air duct passing through said gas chamber and adapted to discharge a column of air into the flame at its origin, means for discharging a mixture of air and gas into said gas chamber and around said duct, and a long narrow tube at and directly connected to the mouth of said casing, adapted to receive the flame, whereby the flame formed at the mouth of said casing is carried into and along said tube.

1,341,267. ILLUMINATING ATTACHMENT FOR PENS OR PENCILS. CHARLES M. EAST, Boyertown, Pa. Filed May 17, 1919. Serial No. 297,882. 1 Claim. (Cl. 240—2.)

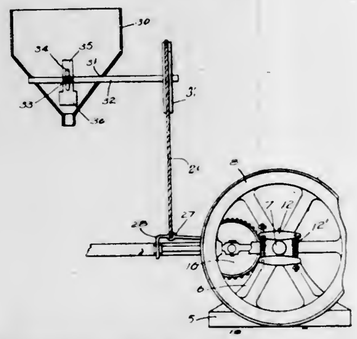
An illuminating attachment for pens or pencils comprising a casing, means detachably securing the casing to the writing end of a pen or pencil, an insulating block within said casing, a contact plate carried by said insulating block, an electric lamp secured to the casing and grounded thereto and connected to the plate, a cap secured to said casing and having an opening, a housing in said casing and being cut away to form a seat and projecting arms, one of said projecting arms extending in close proximity to the plate, a second plate in the housing and insulated therefrom, a conductor secured to the second plate and extending through the opening of the cap,

a conductor secured to the casing and extending through the opening of the cap, a plug secured to the conductors, an electrical source connected to the plug, and a ball lo-



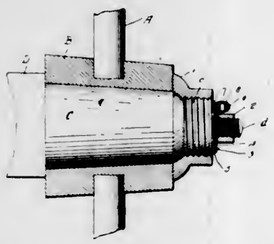
cated within the housing and adapted to engage the plates when the pen or pencil is placed in writing position to complete the electric circuit to the electric lamp.

1,341,268. AUTOMATIC MILL-STOP. NICHOLAS M. GIDLEY, Oxford, Ala. Filed Aug. 12, 1919. Serial No. 316,971. 3 Claims. (Cl. 74—46.)



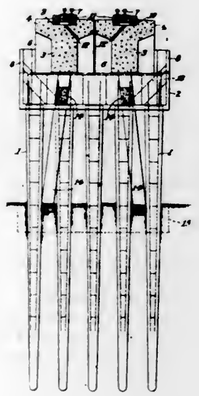
1. In combination with an internal combustion engine, and the valve controlling rod thereof, said valve controlling rod having an opening in one of the side faces thereof, a locking arm carrying a pin, adapted to move into the opening of the valve controlling rod for locking the same against horizontal movement, and means including a hopper and paddle for controlling the locking arm.

1,341,269. NUT-LOCK. CLARENCE A. GUSTAVESON, Whitewater, Wis. Filed Aug. 19, 1919. Serial No. 318,485. 4 Claims. (Cl. 151—15.)



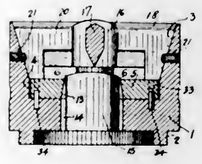
2. In a nut lock, a threaded member provided with a reduced threaded stud, a nut screwed upon said stud, a locking member interposed between the nut and the member carrying the stud, said locking member including two superposed plates and a sleeve integrally connecting the same, and a member fitting tightly through said sleeve so as to exert a wedging effect thereon for spreading the plates apart and forcing them into tight binding engagement with said nut and the member carrying the stud.

1,341,270. REINFORCED-CONCRETE TRESTLE. HORACE P. HAMLIN, Montclair, N. J., assignor to Raymond Concrete Pile Company, a Corporation of New Jersey. Filed Apr. 24, 1919. Serial No. 292,272. 2 Claims. (Cl. 72—56.)



1. In a reinforced concrete trestle the combination with piles and concrete caps thereon, of longitudinal girders having deep narrow body portions broadened and thickened at the points where they meet and extend over upon said transverse concrete caps, and flaring cantaliver tops which when fitted together form the flat surface of a roadway, and means for directly tying together the thus-formed girders.

1,341,271. PROCESS OF MAKING GLAZING-BARS. JOSEPH TELFER HUTCHINSON, VERNON SHAW, and FRANK BARNES, Vancouver, British Columbia, Canada. Original application filed Mar. 28, 1918, Serial No. 225,283. Divided and this application filed June 18, 1918. Serial No 240,703. 3 Claims. (Cl. 29—148.)



1. A process of making glazing bars which consists in forming a cover transversely triangular in shape having outstanding walls at the bottom of its sides and its base extended at each end, inserting a T bar into said cover, and then deforming the cover to envelop the T whereby the outstanding walls take a vertical position and the base extensions an upwardly inclined position.

1,341,272. FLOATING DEVICE. GUS JORDAHN, Palm Beach, Fla. Filed June 26, 1919. Serial No. 306,809. 1 Claim. (Cl. 9—17.)

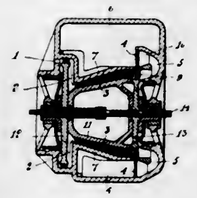
A device to be used in learning to swim consisting of a long flexible open ended tube adapted to encircle the

body of a wearer, and relatively narrow whereby when blown up its ends may be tied together thus serving the



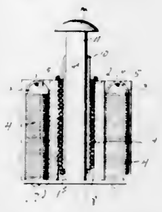
double purpose of holding the device in place on a wearer and detaining the air as and for the purposes set forth.

1,341,273. AXIAL-FLOW TURBINE. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden. Filed Apr. 10, 1919. Serial No. 289,055. 1 Claim. (Cl. 253—69.)



An axial turbine wherein the last rotating blade section comprises two radially arranged concentric rings of blades an inner and outer so arranged that the steam first passes through the inner ring, a bent passage into which the steam passes after leaving the first ring of blades and by which the steam is caused to flow in the opposite direction through the other ring, a discharge chamber into which the steam passes axially after leaving the last mentioned ring, and a housing within the chamber and surrounding the remaining blades.

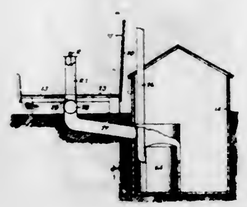
1,341,274. SHOCK-ABSORBER. ERNEST E. MCCOLLUM, Mattoon, Ill. Filed June 16, 1919. Serial No. 304,440. 4 Claims. (Cl. 267—15.)



1. A device of the class described comprising a body provided with support engaging means and having an opening therethrough, the side walls of said body being provided with channels, retractile members positioned within said channels and supported by the body, a plate underlying the body and engaged with said retractile members, and a plunger extending within the opening of the body and engaging the plate.

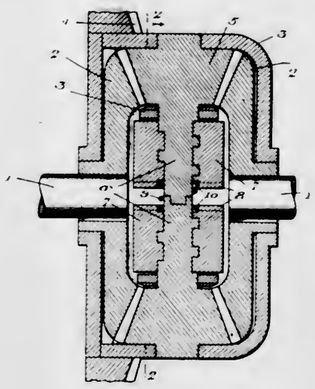
1,341,275. APPARATUS FOR DRYING AND HARDENING CORN. ROBERT H. MCDOWELL, Marshalltown, Iowa. Filed Jan. 17, 1919. Serial No. 271,729. 3 Claims. (Cl. 98—26.)

2. In a corn crib, having a heat distributing pipe arranged beneath the floor of the corn crib and extended longitudinally thereof, and having upright pipe members arranged at intervals thereon, extending to a point adjacent to the floor, the combination of cross bars in said upright pipes below the floor level, a series of upright, perforated heat distributing removable pipes mounted in said upright pipes and resting upon the cross bars thereon, detachable covers for the upright perforated



pipes, rods extended through said covers and detachably and adjustably secured to said cross bars, said covers being adapted to fit into the upright pipes that communicate with the horizontal pipe and seal the upper ends thereof when the perforated pipes have been removed, and means for securing them in position and to said cross bars, for the purposes stated.

1,341,276. AUTOMATIC SELF-LOCKING DIFFERENTIAL GEARING. KENNETH P. MACDONALD, Lincoln, Nebr. Filed June 23, 1919. Serial No. 306,007. 9 Claims. (Cl. 74—99.)

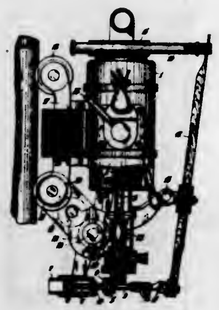


1. Differential gearing embodying a pair of driven members, planetary pinions located operatively between them, clutch means for connecting the driven members including members rotatable with said pinions, and means whereby the excessive speed of rotation of said pinions will move one of said members along its axis of rotation to bring the clutch into action.

1,341,277. TUBE-KNOCKER. HERMANUS GERARDUS MONKHORST, Delft, Netherlands. Filed July 25, 1919. Serial No. 313,408. 4 Claims. (Cl. 226—72.)

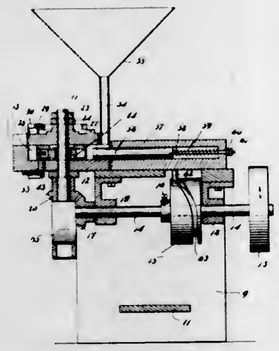
1. In an apparatus for packing metal tubes with sand, the combination of a motor; a percussion tool coupled thereto and adapted to strike the tube to be packed; and

means for holding the apparatus against said tube including a wheel or roller arranged to travel directly along



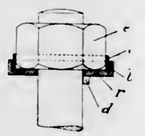
the tube and connected with the motor to be driven thereby.

1,341,278. APPARATUS FOR SORTING MACHINE ELEMENTS, &c. CHESTER T. MOREY, Providence, R. I. Filed Nov. 17, 1919. Serial No. 338,618. 17 Claims. (Cl. 83—92.)



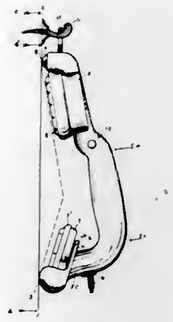
1. Apparatus of the class described including a selector mechanism comprising a driving plunger, a selector cavity associated therewith, said cavity being of such contour as to permit stock of predetermined conformation to enter therein, a selector channel having a plurality of delivery openings therein and means to deliver through one opening the stock which enters the cavity and to deliver the remainder of the stock through another opening.

1,341,279. LOCKING-WASHER. CHARLES OFFNER, Lyon, France. Filed Jan. 18, 1919. Serial No. 271,909. 6 Claims. (Cl. 151—3.)



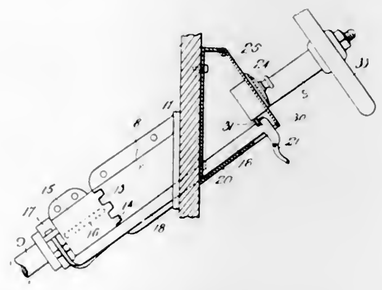
1. A washer having a turned up edge divided into two concentric rings.

1,341,280. TELEPHONE HAND SET OR HAND PIECE. HERMAN G. PAPE, New York, N. Y. Filed June 24, 1918. Serial No. 241,642. 16 Claims. (Cl. 179—167.)



10. In a telephone hand-set, a micro-telephone transmitter, a receiver, a mounting comprising a handle and end-knock protectors or bumpers, said protectors constituting feet, one of said protectors or feet housing the actuating member of an automatic switch.

1,341,281. MOTOR-CAR-LOCKING DEVICE. CHESTER L. RANDOLPH, Coscob, Conn., assignor of one-third to Albert Ehlers, Coscob, Conn., and one-third to Rowland B. F. Randolph, Roselle, N. J. Filed May 13, 1919. Serial No. 296,800. 4 Claims. (Cl. 70—90.)

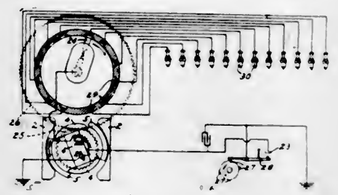


2. A lock attachment for motor cars comprising a pair of sleeve sections to surround the steering-post and having interengaging means thereon, one of said sections being immovably secured to the car and the other section being slidably keyed to said post, a lock controlled detent to be secured to the car at a point remote from the sleeves and accessible to the operator, a reciprocable bar for actuating the slidable sleeve and having an operating handle extending to a point adjacent said detent, whereby the bar may be manually shifted to move said sleeves into or out of interengaging position, and means on the bar engageable by said detent when the sleeves are in interengaging position.

1,341,282. MAGNETO FOR IRREGULAR IGNITION. LEON W. ROSENTHAL, New York, N. Y., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 2, 1918. Serial No. 256,505. 9 Claims. (Cl. 123—149.)

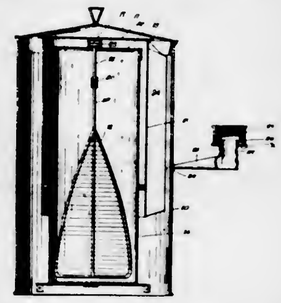
1. In a magneto for ignition at irregular intervals, a field magnet having poles, an armature having poles partly

overlapping the field poles, a magnetic sleeve rotatable in the air gap between the field and armature poles, a gen-



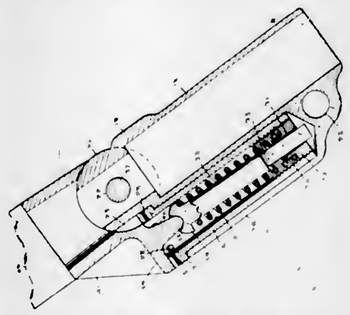
erating winding, and means for altering the circuit of the generating winding at the irregular intervals determined by the trailing tips of the field and armature poles.

1,341,283. HYDRAULIC MIXING DEVICE. VONNIE O. SAUER and FRANK C. WEGENER, Des Moines, Iowa. Filed June 26, 1919. Serial No. 306,995. 2 Claims. (Cl. 259—108.)



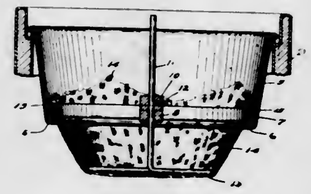
1. In a device of the class described, a casing sufficiently open at its lower end to permit the free passage of water, a support in the lower end of said casing, a receptacle of smaller diameter than the casing, a cover for said receptacle, a shaft rotatably mounted in said cover, an engaging member on said shaft above said casing, an agitator operatively connected with said shaft, a cylindrical member having a closed top provided with an engaging member for coacting with said first engaging member, blades on the exterior of said cylindrical member, said casing having an opening in its wall, and means connecting said opening with flowing water under pressure.

1,341,284. SAFETY TROLLEY-FINDER. HARRY B. SAWYER, Ogden, Utah. Filed July 20, 1917. Serial No. 181,879. 3 Claims. (Cl. 191—82.)



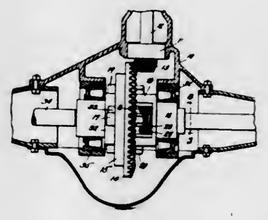
1. The combination with a trolley pole member, a head pivoted to the upper end of said member and provided with a lateral projection, a barrel carried by said body member, a sleeve rotatably mounted within said barrel and internally threaded, a guide nut threaded within said sleeve, a bolt disposed within the sleeve to engage said lateral projection and having its lower end passing through said nut, said nut and bolt fitting together so as to prevent relative rotation, and a tension spring disposed between said bolt and nut.

1,341,285. COFFEE-URN. JOHN N. SHAW, Seattle, Wash. Filed Aug. 11, 1919. Serial No. 316,890. 2 Claims. (Cl. 53—3.)



1. A device for forming a bag of variable size from a piece of cloth comprising a circular shell having an upwardly curved internal flange that forms an annular groove, a ring arranged to fit within said groove, a piece of cloth arranged to be held between said ring and said flange, a shank slidably disposed within said ring and a foot member on the end of said shank arranged to support said cloth.

1,341,286. DIFFERENTIAL GEARING. EDWARD L. SNYDER, Harrisburg, Pa. Filed Nov. 20, 1919. Serial No. 339,301. 4 Claims. (Cl. 74—7.)

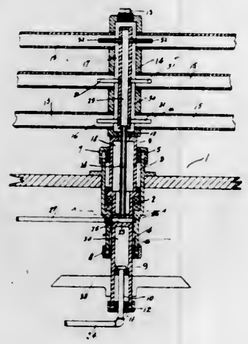


1. In a differential gearing, a driven gear wheel, means for driving the said gear wheel, ratchet teeth carried by the gear wheel, a ratchet member coacting with the ratchet teeth and having a tubular extension, an axle driven by the said tubular member, a bearing in which the tubular member rotates, said bearing having a yoke whereby it is coupled to the driven wheel, means for yieldably holding the ratchet teeth in engagement, a member coupled to the gear wheel and having studs thereon, a sleeve rotatable with relation to the member and having lugs coacting with the studs and an axle connected to the last mentioned member.

1,341,287. PULP HEATING AND AGITATING APPARATUS. PHILIP SOMERVILLE, Vancouver, British Columbia, Canada. Filed Dec. 16, 1918. Serial No. 266,940. 3 Claims. (Cl. 257—104.)

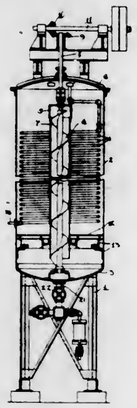
1. In a device of the class described, the combination with a tank, of an outer rotatable vertical tubular member extending through the bottom of said tank and provided with radially extending tubular members the bores of which communicate with the bore of the vertical member,

their outer ends being closed, the said vertical member being closed at its upper end and having a condensate drain orifice in its lower end, an inner tubular member mounted concentrically in the bore of the outer tubular member of less diameter than the same and provided



with nozzles extending into the bores of the radial members, means for rotating the rotatable member, and means for supplying heated gases to the radial members by way of the said inner tubular member and nozzles during such rotation.

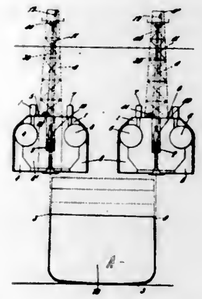
1,341,288. PROCESS OF DISSOLVING SODIUM SILICATE. EDWARD A. TAYLOR, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 10, 1917. Serial No. 195,708. 5 Claims. (Cl. 23—13.)



1. In a method of dissolving a soluble silicate, the steps which consist in passing a solvent over and through an excess of soluble silicate and heating such solvent with a gas chemically inert to such soluble silicate.

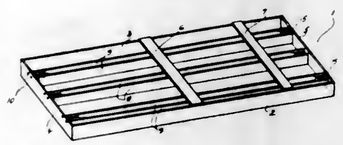
1,341,289. PONTOON FOR RAISING SUNKEN VESSELS. THOMAS GEORGE OWENS THURSTON and ALFRED HILEY, Westminster, London, England, assignors, by mesne assignments, to Vickers Pontoons Limited, Westminster, London, England. Filed Feb. 7, 1918. Serial No. 215,945. 11 Claims. (Cl. 114—53.)

1. In apparatus for raising sunken vessels comprising submersible pontoons and lifting cables, the provision of means for indicating the tension exerted by the sunken vessel on the respective lifting cables of each pontoon, means for gripping and holding said lifting cables, and means coöperating with said gripping means for slipping



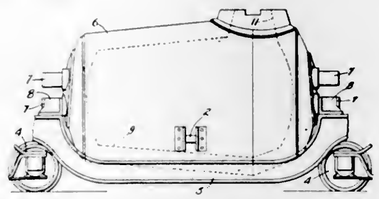
or relieving from tension any cable which is being subjected during the buoyancy lift to more than its due proportion of the load.

1,341,290. SWIMMING APPARATUS. WILLIAM WEBSTER, Victoria, British Columbia, Canada. Filed Aug. 9, 1919. Serial No. 316,394. 5 Claims. (Cl. 9—21.)



1. In a swimming apparatus, an open frame adapted for attachment to the foot, and slats pivoted within the frame in pairs forming valves operative automatically to alternately open and close the frame as it is respectively drawn forwardly and propelled backwardly, the valves in each pair hanging vertically adjacent each other when in the open position.

1,341,291. HOT-METAL CAR. CARL P. ASTROM, East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y., a Corporation of New York. Filed Dec. 1, 1919. Serial No. 341,781. 4 Claims. (Cl. 105—264.)

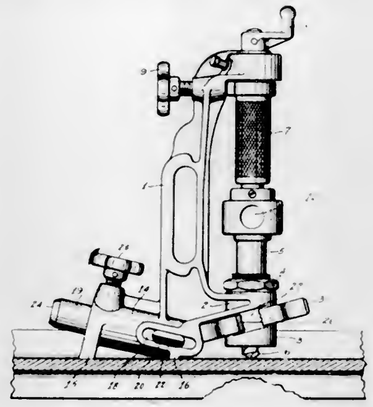


1. In a hot metal car, a tilting elongated car body having trunnions at its opposite ends and provided with a pouring spout located nearer to one end than to the other to thereby enable variable spacing between the pouring spouts by the placement of the cars in different end to end relation in a train.

1,341,292. DRILLING DEVICE. WILLIAM P. BOYARD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of Ohio. Filed July 8, 1918. Serial No. 243,863. 3 Claims. (Cl. 77—11.)

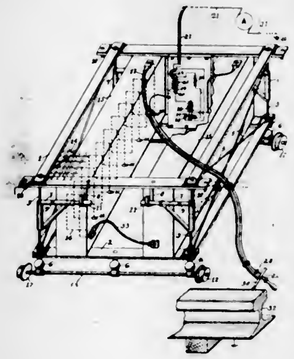
1. A drilling mechanism having a spindle for attachment to a support provided with a slidably mounted

means to engage the support and secure the mechanism thereto and means encircling the spindle and engaging the



slidably mounted means to move the slidably mounted means out of engagement with the support when impact blows are applied to the release means.

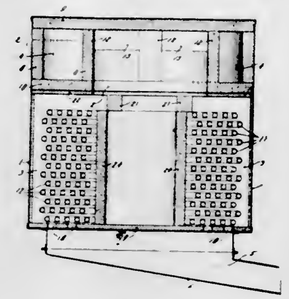
1,341,293. ELECTRIC WELDING DEVICE. WILLIAM P. BOYARD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 24, 1919. Serial No. 332,929. 13 Claims. (Cl. 219—8.)



1. In electric welding, an arc welding circuit connected to a source of supply, a resistance element in the circuit to control the current therein, an electrode in the circuit for forming an arc, an electrically operated contacting device in the circuit for opening and closing the circuit, a separate control circuit connected to the source of supply for controlling the electrically operated contact device and and electrically operated switch for opening and closing the control circuit and operated by the current forming the arc when the current exceeds a predetermined amount.

1,341,294. LIQUID-FUEL-BURNING FURNACE. ROBERT G. BREEDING, Cincinnati, Ohio. Filed Oct. 26, 1918. Serial No. 259,845. 4 Claims. (Cl. 158—4.)

1. A liquid fuel burning furnace comprising a hollow furnace casing, having an oval side wall and an opening through the central portion of the base, an oval partition wall eccentrically disposed within said casing around said base opening, said wall interiorly dividing the casing into a combustion chamber and an annular fuel vaporizing channel communicating at the top with said combustion chamber, a casing below the furnace casing, pro-



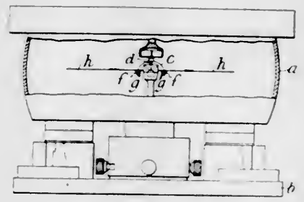
viding a chamber communicating with and a down draft flue from said combustion chamber, and a fuel inlet nozzle leading tangentially into said channel.

1,341,295. MATCH-HOLDING ATTACHMENT FOR COMMERCIAL TOBACCO-BOXES. ALBERT C. BURTIS, Mount Vernon, N. Y. Filed Jan. 19, 1920. Serial No. 352,338. 2 Claims. (Cl. 206—38.)



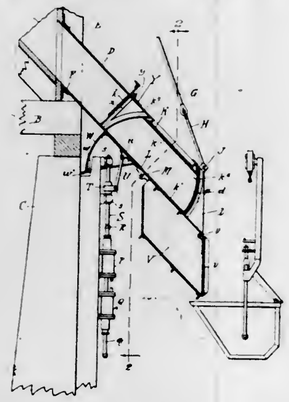
2. A tobacco box having a countersunk bottom with side beads, combined with a match container attachment to said box having sliding engagement with said beads and forming a temporarily permanent attachment, and a cover to said container attachment closely fitted thereto beyond the end of the tobacco box, said cover being bodily removable to give access to the matches in said container, the cover being provided with parallel grooved flanges merging together at one extremity to form a stop.

1,341,296. MAGNETIC COMPASS. GEORGE RICHARD COLIN CAMPBELL, deceased, Slough, England, by Edward Fitzhardinge Campbell, administrator, Moy, Ireland, and GEOFFREY THOMAS BENNETT, Slough, England. Filed July 1, 1919. Serial No. 308,061. 3 Claims. (Cl. 33—223.)



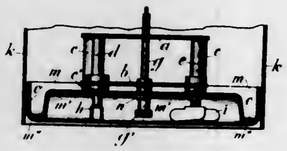
1. A liquid magnetic compass armed with one or more filaments included in the needle system and adjusted so as to produce by their motion through the liquid a damping effect adequate to convert the common periodic oscillatory movement of the magnetic compass into a movement of the kind usually termed "dead-beat" and herein referred to as aperiodic.

1,341,297. LOAD HANDLING AND MEASURING DEVICE. FREDERICK C. CARSTARPHEN, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Dec. 4, 1918. Serial No. 265,281. 6 Claims. (Cl. 221—106.)



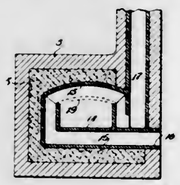
3. In a loading device a downwardly inclined chute for conveying material, a rocking measuring flask having open ends pivotally mounted in said chute, means for regulating the inflow of material to said flask, a stop plate secured to the under side of said flask and adapted to stop the flow of material from said chute when said flask is rocked, and power means for rocking the flask.

1,341,298. ALARM. JOHN ALBERT CHAPPUIS, La Chaux-de-Fonds, Switzerland. Filed Nov. 20, 1919. Serial No. 339,377. 2 Claims. (Cl. 58—54.)



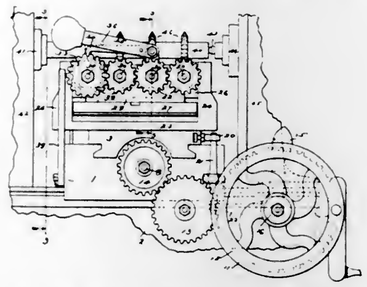
1. An alarm clock comprising a casing and a bell mounted at the base or back of and within said casing, said bell being recessed centrally so as to afford a housing or receptacle, within the rear edge of said casing, for the winders and other parts.

1,341,299. FURNACE AND LINING THEREFOR. JAMES P. COPLAND, South Euclid, Ohio, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 10, 1918. Serial No. 249,230. 6 Claims. (Cl. 263—16.)



6. A cast metal furnace lining consisting of an alloy containing 70 to 75 per cent. of iron, 15 to 25% of chromium, and the remainder of a metal from the iron group.

1,341,300. MILLING-MACHINE. PHILIP J. DARLINGTON, Hartford, Conn., assignor to The Roto Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 30, 1919. Serial No. 293,590. 26 Claims. (Cl. 90—18.)



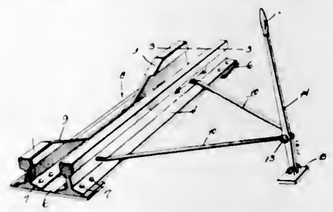
1. A milling machine having a bed, a slide movably mounted on the bed, means for feeding the slide forward and readward, a table pivotally mounted on the slide, means for causing the table to rock as the slide and table move back and forth, a blank arbor rotarily mounted on the table, means for indexing the arbor rotarily, frames extending upwardly from the bed, bearings on the frames, a spindle rotarily mounted in said bearings, and a milling cutter fastened to said spindle.

1,341,301. TIRE-CHAIN. PETER E. DAUBENSPECK, Butler, Pa. Filed May 15, 1919. Serial No. 297,361. 11 Claims. (Cl. 152—2.)



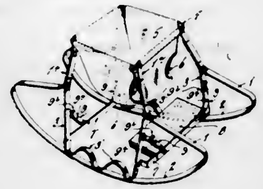
1. A device of the character described, comprising a traction chain adapted to pass around the tire of a wheel, a securing chain arranged to pass through links on both ends of the traction chain, means for connecting one end of the securing chain to an intermediate portion thereof, and means for securing the other end of the securing chain to the wheel.

1,341,302. REPAIR APPARATUS FOR LOCOMOTIVES. ALEXANDER E. DILLON, Haileyville, Okla. Filed Mar. 20, 1920. Serial No. 367,557. 4 Claims. (Cl. 104—51.)



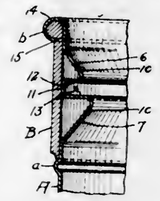
4. The combination with a railway rail having an open space provided therein, a movable rail section adapted to fill the space and provided with a gap intermediate its ends extending to the base flange of the section, and means to move the said auxiliary section into and out of position in the said space.

1,341,303. CHILD'S ROCKER. JOHN A. EBERLE, St. Louis, Mo. Filed Dec. 17, 1919. Serial No. 345,579. 7 Claims. (Cl. 155—75.)



1. A rocker comprising side frames, foldable connections between said side frames adapted to hold them in upright position, a seat frame supported by said side frames and a seat suspended from said frame.

1,341,304. METAL BARREL OR RECEPTACLE. HARTLEY ELLIS, Cleveland, Ohio. Filed Apr. 26, 1917. Serial No. 164,620. 1 Claim. (Cl. 220—73.)



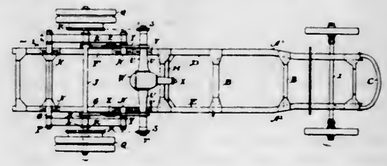
In a receptacle, the combination, with a body comprising an upright metal shell which is circular in plan and has its upper end portion provided externally with a rib spaced from the upper extremity and extending circumferentially of said shell, said end portion of said shell being provided between its upper end and said rib with two circumferentially extending and vertically spaced laterally and inwardly offset annular portions, the bottom of the upper offset portion forming a downwardly facing annular shoulder internally of said shell, the top of the lower offset portion forming an upwardly facing annular seat-forming shoulder internally of said shell, and said offset portions forming vertically spaced annular recesses arranged at the exterior and circumferentially of said shell, of a reinforcing band embracing the aforesaid end portion of said shell and forming a closure for said recesses, said band being supported at its upper end portion from said shell and being arranged next above the aforesaid rib.

1,341,305. LIFTING-JACK. WILLIAM C. ENGEL, St. Louis, Mo., assignor of one-third to Edward L. Hohenstein and one-third to Frederick Schott, St. Louis, Mo. Filed Sept. 13, 1919. Serial No. 323,640. 10 Claims. (Cl. 254—108.)



1. A lifting jack comprising a hollow standard, a notched lifting post therein and means for actuating said lifting post, said means comprising a hand-lever pivotally secured to said standard, a downwardly projecting link having its upper end pivotally secured to the end of said hand-lever, a second link pivotally secured at its ends to said first mentioned link and to the standard, and a lifting pawl operatively connected to said links and adapted to engage a notch of the lifting post.

1,341,306. MOTOR-TRUCK CONSTRUCTION. FRANK H. FARMER, Cleveland, Ohio, assignor, by mesne assignments, to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 18, 1914. Serial No. 832,723. 3 Claims. (Cl. 180—72.)

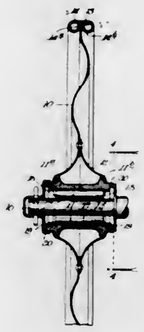


1. In a motor vehicle construction, a chassis frame having its rear portion in a lower plane than its front portion; a rear axle and a power shaft both extending across the chassis frame above the lower portion thereof; springs secured to the axle and connected to the chassis frame; rear wheels on the rear axle; and driving means between the power shaft and said wheels.

1,341,307. MANUFACTURE OF TITANIUM-OXYGEN COMPOUNDS. PEDER FARUP, Christiania, Norway, assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Filed Oct. 25, 1916. Serial No. 127,681. Renewed Sept. 29, 1919. Serial No. 327,170. 13 Claims. (Cl. 134—58.)

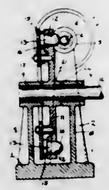
9. The process of treating a titanium hydrate containing iron and sulfuric acid which comprises, subjecting the compound to the action of sulfuric acid, heating the resultant product to a temperature ranging substantially from 300° to 500° C. in the presence of sodium chlorid whereby a sintering of the product is obtained, and recovering the resultant combined titanium from the sintered mass by leaching.

1,341,308. SOLID WHEEL AND TIRE. HOWARD J. FERRIS, Harvard, Ill., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill., a Corporation of Illinois. Filed Nov. 3, 1919. Serial No. 335,317. 9 Claims. (Cl. 21—69.)



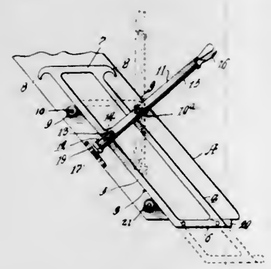
1. In a wheel, a continuous web having a portion near the outer edge lying in a radial plane and a tire having inwardly turned portions which engage the web on opposite sides of said portion.

1,341,309. WORM-GEARING. ADRIAN A. FIRESTONE, Cleveland, Ohio. Filed May 5, 1919. Serial No. 294,671. 3 Claims. (Cl. 74—36.)



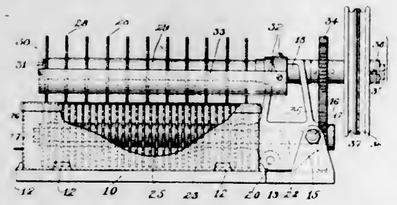
1. In worm gearing, the combination of a worm wheel having a row of spaced apertures near its periphery, studs having hemispherical ends rotatably mounted in such apertures, said studs having heads contacting the rear face of said wheel to limit their forward position, a retaining ring attached to said wheel and contacting the heads of said studs to prevent longitudinal movement thereof, and a worm gear mounted adjacent the face of said worm wheel and adapted to engage with said hemispherical ends of said studs.

1,341,310. CAR-STEP. GEORGE A. GILBERT, Brewster, and GRACE H. STEPHENS, Patterson, N. Y., assignors of one-third to Daniel M. Stephens, Patterson, N. Y. Filed Sept. 19, 1919. Serial No. 324,896. 1 Claim. (Cl. 105—449.)



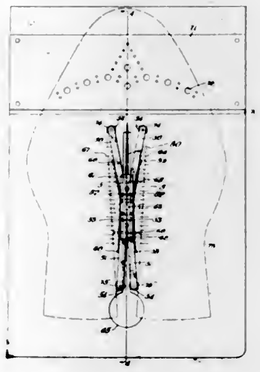
In car steps, a rigid step frame extending at an angle, a pair of horizontally alined rollers mounted on said frame, a single roller mounted beneath the outermost of said pair of rollers, a second frame, bearing against the innermost of the first mentioned pair of rollers and the bottom roller, a horizontal member on the upper end of said second frame terminating in semi-circular ears designed to rest upon the pair of rollers when the frame is in the lowermost position, and a car step carried by the lower end of said second frame.

1,341,311. MACHINE FOR APPLYING ADHESIVE. FREDERICK S. GLINES, Lynn, Mass., assignor to Lorenz Muther, Newton, Mass. Filed Nov. 28, 1917. Serial No. 204,469. 9 Claims. (Cl. 91—51.)



1. A machine for applying adhesive comprising a base, a bearing pivotally mounted on said base normally in engagement with said base but capable of rotation around said pivot point, rotatable means for applying adhesive to the material and means for feeding said material, both said adhesive applying means and said feeding means being each mounted at one end thereof in said bearing.

1,341,312. GAGE FOR PERFORATING-MACHINES. FREDERICK S. GLINES, Lynn, Mass., assignor to Lorenz Muther, Newton, Mass. Filed May 10, 1918. Serial No. 233,642. 5 Claims. (Cl. 164—59.)



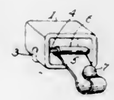
5. A gage for perforating machines, having, in combination, a work-support provided with a slot, a slide movably mounted in said slot, a pair of forwardly extending arms for positioning the work, each of said arms being pivotally mounted at one end on said slide adjacent to the other of said arms, a pointed screw carried by said slide and located between said arms adjacent their pivot points for adjustably spreading said arms to position work of various sizes and two springs secured to said slide for engaging said arms to hold them in adjusted position against said pointed screw.

1,341,313. OVERALLS. HERBERT GODCHAUX, Dallas, Tex. Filed Oct. 19, 1918. Serial No. 258,821. 1 Claim. (Cl. 2—144.)



A one-piece overall, comprising a body portion having a back and a trouser portion permanently secured to the body portion at its front and having a seat flap at the back which is separated from the trouser portion at its vertical edges, the lower end of said back having its material folded upwardly upon itself for forming a two ply hem which extends downwardly below the upper end of the seat flap when the seat flap is in the raised position, a band arranged upon the inner side of the back and having its lower edge terminating at a point above the lower edge of said hem so that the band is completely covered by said hem, said band having its upper edge stitched to the back and its ends stitched to the back at the vertical edges of said back, said band being provided near its lower edge with button holes, and buttons secured upon the outer surface of the seat flap and adapted for insertion through the button holes with the upper end of the seat flap arranged inwardly of the band, said band being incapable of moving downwardly with relation to the back.

1,341,314. SLIDE-LOOP HOLDER. CASPER HUGO GRINGS, Waterloo, Iowa. Filed Aug. 25, 1919. Serial No. 319,623. 4 Claims. (Cl. 24—183.)



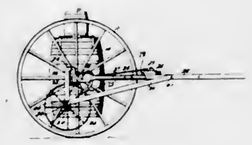
3. In combination, a leather collar, a hook having an eye positioned within the hollow of the collar, and pintles extending from the middles of opposite side walls of the collar into the eye of said hook permitting swinging of the latter, and dividing the collar into equal height interspaces.

1,341,315. BUCKLE. CASPER HUGO GRINGS, Waterloo, Iowa. Filed Sept. 13, 1919. Serial No. 323,510. 4 Claims. (Cl. 24—179.)



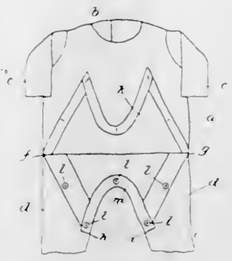
1. In a device of the character described, an independent buckle frame provided with a tongue bar, and a tongue member having a bifurcated projection adapted to be pivotally mounted on the tongue bar with the bifurcations clenched around the tongue bar.

1,341,316. CONCRETE-MIXER. ALFRED L. HALE, Williamston, Mich. Filed July 14, 1919. Serial No. 310,585. 1 Claim. (Cl. 280—61.)



In combination in a device of the character described including an axle, two wheels and a pair of thills, a brake bar pivotally secured at one end to one of said thills, a brake lever fulcrumed on said axle, a link extending from said lever to said brake bar, two elevating levers pivotally secured to said axle on opposite sides of one of said thills, an upstanding ear fixed to the end of said elevating levers, a rectangular bar depending from each of said ears, an elevating wheel held to said rectangular bar, a brace bar having its ends secured to one of said thills and said rectangular bar, and an arm fixed to one of said levers having outstanding ends serving as a stop to limit the movement of said brake lever, as and for the purpose set forth.

1,341,317. INFANT'S NIGHT-GARMENT. GRETCHEN R. HANNA, Boston, Mass. Filed Dec. 16, 1918. Serial No. 266,992. 4 Claims. (Cl. 2—144.)



1. An infant's garment comprising a body and attached leg portions, and having a lower front opening on lines running from opposite sides of the body portion to points on the inside of the leg portions below the crotch and between the last named points, and a flap connected to the front of the body portion adapted to be detachably fastened over such opening and to be turned back so as to uncover the opening.

1,341,318. TRAFFIC-POST. PAUL HANNAGAN, Lawrence, Mass.; Catherine T. Hannagan administratrix of said Paul Hannagan, deceased. Filed Dec. 22, 1916. Serial No. 138,447. 8 Claims. (Cl. 189—28.)

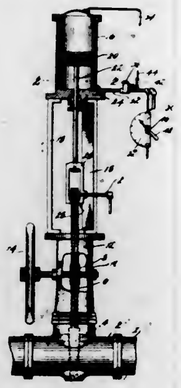


8. A traffic regulator comprising a fixed base plate, an upwardly extending conoidal centering member secured thereupon, a tubular semaphore post positioned over said centering member and normally standing in a vertical position upon the base plate, and a resilient connection between the post and centering member whereby the post may have yieldable radial movement in relation to the centering member and upon the base plate.

1,341,319. AUTOMATIC VALVE-REGULATOR. CHARLES H. HODGES, New York, N. Y., assignor to Consolidated Gas Company of New York, a Corporation of New York. Filed June 8, 1917. Serial No. 173,464. 4 Claims. (Cl. 137—139.)

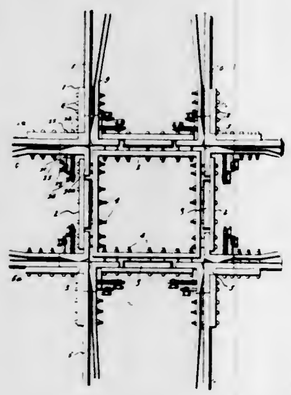
1. In combination with a valve, fluid controlled means arranged to operate at a predetermined speed, and means

for connecting said fluid controlled means to said valve, provided with means for quickly attaching and detach-



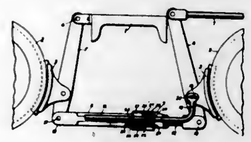
ing the connecting members of said connecting means during the operation of the valve without rotating said members.

1,341,320. RAILROAD-CROSSING. JAMES PAUL HOUK, New Albany, Miss. Filed Sept. 6, 1919. Serial No. 322,076. 1 Claim. (Cl. 246—273.)



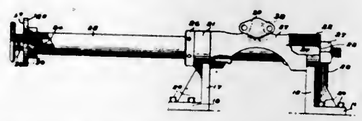
A railroad crossing comprising in combination, pairs of rails arranged at right angles to one another and terminating short of one another, right angular members rigidly mounted at and filling the spaces between the ends of adjacent rails, bar members disposed between the rails of each pair, an open rectangular frame disposed inwardly of all of said bar members, filler members secured between said bars and said frame and rigidly secured thereto, said filler members being of considerably less length than said bars whereby the ends of the bars will project therebeyond, bolts passing through the projecting ends of said bars and through said frame, and a pair of movable bridge members disposed at each corner of the crossing at diagonally opposite corners of the rail intersections, each bridge member including portions extending at right angles to each other with one portion disposed in alinement with and in spaced relation to the adjacent filler member and the other portion extending in parallel relation to the adjacent rail, said first named portion being provided with slots engaged upon and slidable with respect to said bolts, the face of said second named portion disposed toward said rigid corner members being inclined at both ends, a rigid support adjacent each of said bridge members, a rod carried by each bridge member and slidable through the support, and a coil spring surrounding each rod, abutting against the support and abutting against the bridge member.

1,341,321. SLACK-ADJUSTER. WALTER W. HUNZICKER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 18, 1919. Serial No. 318,128. 15 Claims. (Cl. 188—199.)



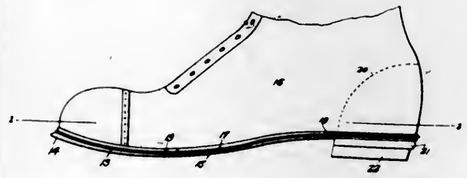
1. An automatic slack adjuster comprising an adjustable push rod and holding means therefor, in combination with an auxiliary adjusting device, said device embodying an adjusting bar slidably connected to said push rod, a grip mounted on the bar, means for yieldingly holding the grip in canted position to prevent inward movement of the bar when subjected to a presure less than a predetermined value, and means for tripping the grip to permit inward movement of the bar when subjected to the predetermined pressure.

1,341,322. MOTOR-REPAIR STAND. ARTHUR H. JENKINS, Ruleville, Miss. Filed Jan. 21, 1919. Serial No. 272,281. 4 Claims. (Cl. 29—89.)



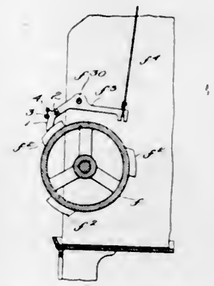
1. A support of the character described comprising two standards, a hollow shaft revoluble therein terminating short of the outer side of one of the standards, a motor carrying member keyed upon the shaft, between the standards, a shaft revoluble in the first mentioned shaft having screw threads at its end outwardly of and adjacent the last mentioned standard, a non-revoluble nut thereon, the first named shaft having thrust engagement with the outer side of the standard opposite the nut, and means to hold the second named shaft against movement toward the nut.

1,341,323. SHOE. WARDLOW M. JESSUP, Camden, N. J. Filed Aug. 9, 1919. Serial No. 316,441. 5 Claims. (Cl. 36—15.)



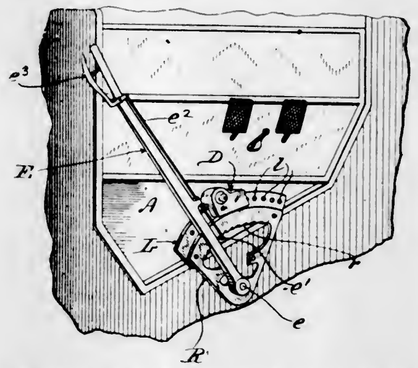
1. A shoe comprising an inner sole formed of relatively movable sections, each having a groove in the edge thereof, an outer sole covering the bottom of the inner sole and having its edge fashioned into the groves of the inner sections and a resilient wire-like securing element disposed in the grooves of the inner sole sections to bind the edge of the outer sole therein.

1,341,324. YARN-CHANGER MECHANISM FOR KNITTING-MACHINES. FRANK E. JONES, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Sept. 7, 1917. Serial No. 190,255. 2 Claims. (Cl. 66—12.)



1. In a knitting machine, in combination with a pattern-barrel in the lower part of the machine, a movable yarn-guide which delivers yarn to the needles, a guide-controlling lever by which the guide is raised above the working ends of the needles or lowered into working relations with the latter, and a wire extending downward from said guide-controlling lever, a pattern-lever to which the lower portion of said rod is connected having an outwardly-presented pivotally-mounted contact-member engaging with the pattern-surface, and a setting-screw fitted to one member of the pattern-lever and engaging with the other member thereof with its head conveniently accessible, by means of which setting-screw said contact-member may be swung around its pivot with respect to the remainder of the pattern-lever to adjust the relation of the yarn-guide to the needles.

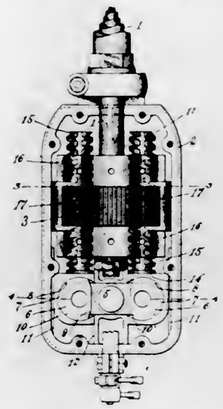
1,341,325. SAFETY APPLIANCE FOR AUTOMOBILES, &c. JOSEPH KAINEN, Brooklyn, N. Y. Filed Aug. 28, 1919. Serial No. 320,399. 7 Claims. (Cl. 70—132.)



3. A safety appliance comprising a locking rail attachable to the ratchet sector of a motor vehicle and having holes therein, a dog movable on said rail, means engageable with said openings to hold the dog in place, and means mounted to oscillate at right angles to and engageable with said means to prevent endwise movement thereof.

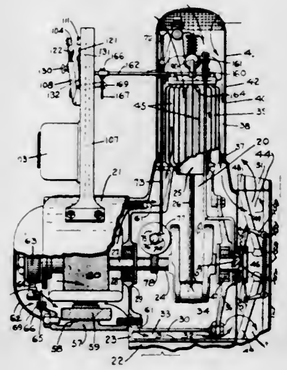
1,341,326. STEERING MECHANISM. JOSEPH N. KELLY, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio. Filed June 9, 1919. Serial No. 302,771. 8 Claims. (Cl. 74—79.)

1. In a steering mechanism, the combination with a steering sleeve, of screw shafts, a gear fixed to the steering sleeve, oppositely positioned pinions engaged by said gear and splined to said screw shafts, a cross arm oscillatory members engaged by said cross arm, slidable members in-



closing said oscillatory members and engaged by the ends of the screw shafts, and means actuated by the cross arm to turn the steering wheels of a vehicle.

1,341,327. SYSTEM OF ELECTRICAL GENERATION. CHARLES F. KETTERING and WILLIAM A. CHRYST, Dayton, Ohio, assignors, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 27, 1915. Serial No. 58,207. 14 Claims. (Cl. 290—35.)

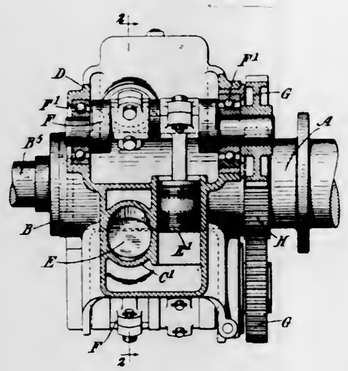


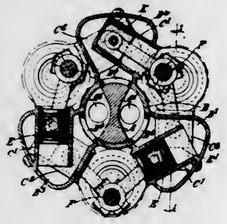
8. In a device of the character described, the combination with an engine including a cylinder; of means associated with the cylinder to afford a passage for air in proximity to the cylinder; an electric machine driven by the engine having provisions for the passage of air therethrough; and a common device for causing the circulation of air through the generator and about the cylinder.

1,341,328. HYDRAULIC ENGINE. FREDERICK LAMPLOUGH, Feltham, England, assignor to Hydro-Dynamics, Limited, London, England. Filed Apr. 28, 1919. Serial No. 293,370. 1 Claim. (Cl. 121—58.)

In an engine of the type described, a stationary valve shaft, a ported casing rotatably mounted on said shaft, a plurality of pairs of open ended cylinders formed in said casing and communicating at their inner ends with

a chamber common to both cylinders of each pair, a piston in each of said cylinders, said cylinders each having one end open to receive motive fluid from said valve shaft through said ports, crank shafts journaled in said





casing and operatively connected to said pistons, and means operatively connected to said crank shafts for rotating the casing when motive fluid is supplied thereto, substantially as described.

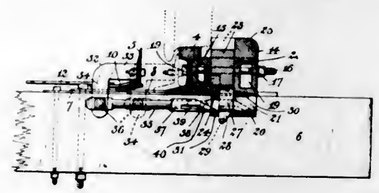
1,341,329. COVER FOR BRUSHES. GUSTAVE A. LOEBEN, Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 28, 1918. Serial No. 255,994. 6 Claims. (Cl. 206—15.1.)



1. In a brush, in combination, a cover, said cover being provided intermediate its ends with a plurality of openings separated by strips of the material of the cover, each of said strips having a depression upon its inner side, and a brush head adapted to be secured to the handle part of the brush, said brush head being provided with means for engaging in the depressions of said strips, substantially as described.

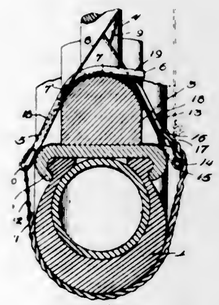
1,341,330. SWITCH-POINT PROTECTOR. JAMES H. LYNCH, Buffalo, N. Y. Filed July 15, 1919. Serial No. 310,945. 12 Claims. (Cl. 246—441.)

10. The combination with a main rail, of a switch-point at one side of said main rail movable toward and from the latter, a guard at the other side of said main rail guided for vertical movement, an actuating rod having an inclined portion adapted to engage said guard and elevate the same, and connection between said operating



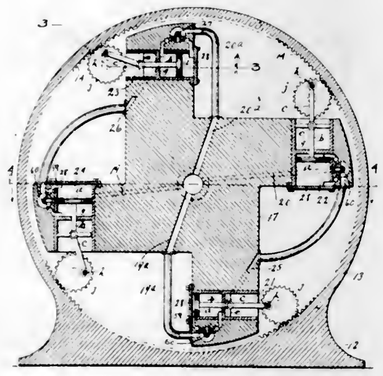
rod and said switch-point whereby said rod is moved when actuating said switch-point.

1,341,331. ANTISLIPPING DEVICE FOR VEHICLE-WHEELS. SAMUEL R. MCCLAY, Canton, Ohio. Filed Aug. 7, 1916. Serial No. 113,431. 2 Claims. (Cl. 152—14.)



1. In a device of the character described, the combination of a saddle adapted to fit the felly of a wheel, said saddle provided with a hook, a retaining bar, one end of said retaining bar located under the hook formed upon the saddle, a lever pivotally connected to the saddle, a chain secured at one of its ends to the lever intermediate the ends of the lever, the opposite end of the chain connected to the saddle and means for holding the lever in locked position.

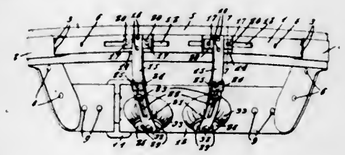
1,341,332. ROTARY ENGINE. ALEXANDER MCDONALD, Detroit, Mich. Filed Oct. 16, 1918. Serial No. 258,360. 2 Claims. (Cl. 121—58.)



1. In a rotary engine, the combination of a rotatable engine block, a series of cylinder members disposed about

the periphery thereof in position for the reciprocation of their pistons transversely of the radii passing therethrough, regulatable means for selectively admitting steam into diametrically oppositely located cylinders, means for exhausting steam to other pairs of cylinders during the periods of inactivity of the first named pair, and a casing member with which connected parts of said cylinder mechanisms operatively engage.

1,341,333. TRUSS. FRANKLIN P. MCELFRESH, Elk Horn, Iowa. Filed Feb. 17, 1919. Serial No. 277,488. 3 Claims. (Cl. 128—105.)



2. A truss comprising a body encircling member having a longitudinal slot; a slide mounted to reciprocate on one surface of the body encircling members at the slot; an arm secured to the slide and outstanding therefrom; a nut coöperating with the slide and held against rotation by engagement with one edge of the arm; a bolt threaded into the nut and passing through the slot, the nut having a head coöperating with the opposite surface of the body encircling member; and a pad supported by the arm.

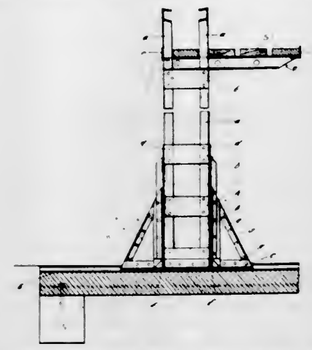
1,341,334. STEERING-GEAR. THOMAS A. MCGINLEY, Sewickley, and JOHN C. KOPP, Bellevue borough, Pa. Filed Feb. 17, 1920. Serial No. 359,443. 15 Claims. (Cl. 74—79.)



1. An automobile steering gear, comprising a steering shaft, two reversely-disposed conical spiral actuating elements connected thereto, said spiral elements running helically in the same direction and spirally in opposite directions, two toothed wheel segments meshing respectively with said spiral elements, means intergearing said segments, a steering arm connected with the intergeared segments, and means for relative adjustment of said segments to take up play in respect to reverse working faces of the spiral elements, whereby the segments are driven by their spiral elements upon opposite rotational movements of the steering shaft, respectively, to transmit motion alternately to the steering arm.

1,341,335. SUPPORTING OF OUTSIDE STAGING USED DURING THE CONSTRUCTION OF SHIPS OR OTHER STRUCTURES. GEORGE WILSON MACILWAINE, Hebburn, England. Filed July 31, 1918. Serial No. 247,607. 5 Claims. (Cl. 189—21.)

1. A staging comprising a pillar formed of two channel irons disposed vertically and a base to which the pillars are connected, slots in both said channel irons at intervals, thwarts adapted to pass through said slots, said thwarts being provided with lugs at each end whereby they are rendered self locking, said thwarts being bev-



eled at one end to allow them to pass through the slots, said slots being substantially the same width and depth as the thwarts, the arrangement being such that the thwarts are rigid when in position and movable when required to be altered in respect to height.

1,341,336. CONDENSER AND METHOD OF MAKING SAME. BYRON MACPHERSON, Roxbury, Mass., assignor by mesne assignments, to Mica Condenser Company Ltd., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1919. Serial No. 339,241. 1 Claim. (Cl. 250—41.)

The improved method of making electrical condensers, which consists in building a self-supporting stack of sheets of dielectric and foil, electrically testing each sheet of foil individually as it is placed in position in the stack, for short circuits and for correctness of position, healing any electrical defect in the stack, and finally completing the condenser structure.

1,341,337. METHOD OF UNITING DISSIMILAR METALS. GEORGE A. MEAD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Jan. 8, 1920. Serial No. 350,101. 8 Claims. (Cl. 219—10.)

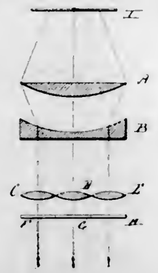


1. The method of uniting metals of unlike heat conductivity and different temperatures of fusion comprising the steps of holding the parts in contact at the desired point of union by pressing an electrode of high resistance against the part having the lowest melting point and greatest heat conductivity with a plate of metal interposed having a lower heat conductivity and a higher melting point than the aforesaid metal, then passing an electric current through the electrode and producing a high temperature therein which is transmitted to the metal parts to be united by conduction, said heat to be applied until the metals to be united are brought to a temperature at which they will unite.

1,341,338. PHOTOGRAPHIC APPARATUS. EDWARD C. S. PARKER, U. S. Navy. Filed Feb. 12, 1920. Serial No. 358,103. 1 Claim. (Cl. 88—1.)

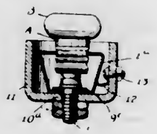
A photographic apparatus of the type set forth, comprising in the order named, a convex spherical lens, a con-

cave cylindrical lens, a plurality of convex cylindrical lenses of shorter focal length than either of said beforenamed lenses disposed edge to edge with their longitudinal



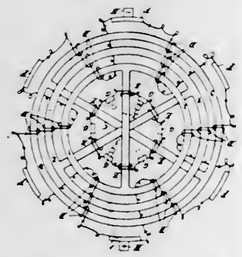
axes parallel to one another and to the longitudinal axis of said concave lens, and color filters respectively transmitting the rays from said plurality of convex cylindrical lenses to the image-receiving surface.

1,341,339. ELECTRICAL CONNECTOR. JOHN R. PATTEE, New York, N. Y. Filed May 21, 1917. Serial No. 169,817. 4 Claims. (Cl. 173—328.)



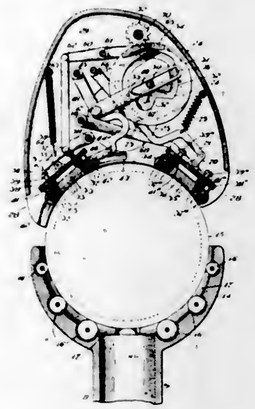
1. An electric lamp socket comprising in combination a terminal member having a transversely extending main portion from which there project longitudinally extending legs having inwardly extending portions at the free ends thereof adapted to engage lamps having collars or necks of various sizes or collars or necks which are provided with screw-threads of different pitch, and a second terminal member extending through said transversely extending portion.

1,341,340. MAGNETO-ELECTRIC TRANSFORMER. PARNELL RABBIDGE, Neutral Bay, New South Wales, Australia. Filed Dec. 24, 1919. Serial No. 347,176. 2 Claims. (Cl. 171—123.)



2. In a rotary transformer, the combination with a series of coaxial annular cores, forming a series of magnetic circuits and each having a cross bar in magnetic circuit therewith, said cross bars being angularly displaced with respect to one another, of windings on the annular cores connected in series from core to core, forming sets, series connections between sets, commutator bars connected with said series connections, brushes engaging the commutator bars and receiving direct current, windings on the cross bars to form secondaries, said windings being connected in series, commutator bars connected to the last series connections, and brushes contacting with the last mentioned commutator bars, said last brushes being shiftable to vary the voltage across said brushes.

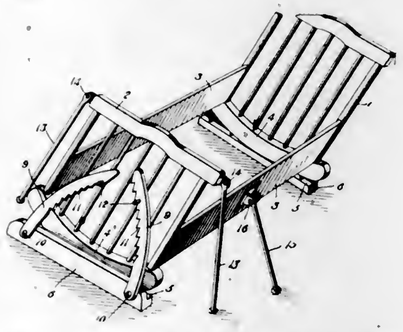
1,341,341. MACHINE FOR RECOVERING ESSENTIAL OILS FROM CITRUS FRUITS. LEWIS C. RICE, Fort Wayne, Ind. Filed Mar. 13, 1919. Serial No. 282,397. 39 Claims. (Cl. 100—50.)



1. A machine for recovering oils from citrus fruits, comprising means for supporting the whole fruit, and means for expressing oil from the rind thereof.

35. A machine for recovering oils from citrus fruits, comprising means for supporting the fruit, presser feet adapted to engage the rind thereof, one of said presser feet being movable toward and from the fruit, cam operated mechanism for so moving said presser foot, the other presser foot being movable circumferentially, cam operated mechanism for so moving the latter presser foot, needles carried by said presser feet and adapted to be projected to engage the rind, and means for projecting or retracting said needles.

1,341,342. BED. JOHN ROYER, Hartville, Ohio. Filed Apr. 2, 1919. Serial No. 286,911. 3 Claims. (Cl. 5—12.)



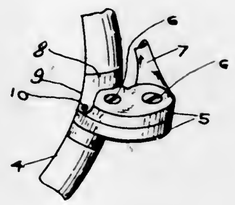
1. A bed comprising a head board, a foot board and side rails, rockers upon the head and foot board, base members upon which the rockers rest, rack bars pivotally mounted upon one base member and pins mounted upon the foot board for engagement with the rack bars, studs mounted upon the base portions and sockets in the under sides of the rockers for engagement with said studs, and downwardly depending stop arms pivotally suspended upon the foot board.

1,341,343. UTENSIL-HOLDER. CASIMIR RYSIEK, Chicago, Ill., assignor of one-half to Ludwik Sikorski, Chicago, Ill. Filed Mar. 13, 1920. Serial No. 365,535. 2 Claims. (Cl. 65—65.)



1. A utensil holder including an upright having utensil holding means at its upper portion and provided with a lower angularly bent end and an extension above said lower end bent in a relatively opposite direction, a clamping member with which the lower portion of the upright is pivotally connected, having a forward portion underlying the angular lower end of the upright and a rear portion underlying the extension of the upright, and a spring compressed between the said rear portion of the clamping plate and the said extension of the upright, said forward portion of said clamping plate and said angular lower end of the upright being bifurcated to form vertically opposed and laterally spaced clamping feet, as described.

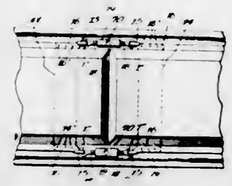
1,341,344. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 30, 1917. Serial No. 204,596. 4 Claims. (Cl. 88—47.)



2. In an ophthalmic mounting the combination with a metallic frame member, of a non-metallic frame member extending therearound, a band loosely secured to one of said frame members, and means for locking the band in engagement with the other frame member for securely uniting the parts.

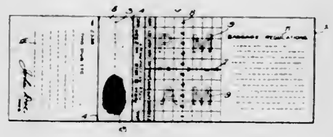
1,341,345. EMERGENCY-TIRE. HARRIS MOORE SHANNON, Richmond, Tex., assignor of one-half to Otto Nentwig, Richmond, Tex. Filed Aug. 5, 1919. Serial No. 315,526. 2 Claims. (Cl. 152—23.)

1. An improved emergency tire comprising a flexible nonmetallic band of textile fabric adapted to be seated in the rim channel to conform to the contour of the rim portion against which it seats, cushioning nonmetallic segments secured to said flexible band, reinforcing nonmetallic strips secured to the ends of said band and extending transversely thereof and adjustable fastening



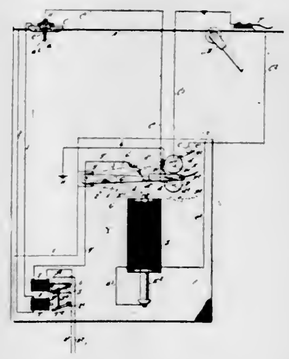
means cooperating with the reinforced portions of said band and spaced from said cushioning blocks as and for the purposes set forth.

1,341,346. RAILROAD-TICKET. GLENN A. SMILEY, Fort Wayne, and ORVALL SMILEY, Indianapolis, Ind. Filed Mar. 26, 1918. Serial No. 224,766. 1 Claim. (Cl. 283—23.)



A ticket, comprising a body portion and a stub, the reverse face of said body portion having a table for indicating dates, and the obverse face of the stub having a similar table, said stub being foldable on said body portion to bring similar parts of the two tables into registration, and a sensitized coating on the reverse face of the ticket, and covering an area on the body portion and the stub through which said folding line passes, said sensitized area being adapted to take a thumb or finger print.

1,341,347. CIRCUIT-CLOSER. CHARLES W. SQUIRES, Beverly, Mass. Filed Apr. 2, 1917. Serial No. 159,092. 15 Claims. (Cl. 246—252.)



3. A normally-open circuit comprising a trolley wire, a solenoid in said circuit and comprising a latch core adapted to be withdrawn on the closing of said circuit, a switch member normally resting on said latch out of operative position and when so resting forming part of said normally-open circuit, means for closing said circuit whereby said switch will be released, and means for moving said switch into operative position.

1,341,348. SPARK-GAP DEVICE. RICHARD F. VAN METER, Minneapolis, Minn. Filed May 26, 1919. Serial No. 299,717. 3 Claims. (Cl. 175—183.)



1. A spark gap device for internal combustion engines comprising a strip of insulating material having a recess, two terminals having their adjacent ends spaced from each other in said recess, a piece of insulating material attached to said strip and having an opening in register with the open side of said recess, a cup-shaped wire gauze member having its periphery clamped between said strip and said piece of insulating material, and means for connecting said terminals in the circuit leading to the spark plug of the engine.

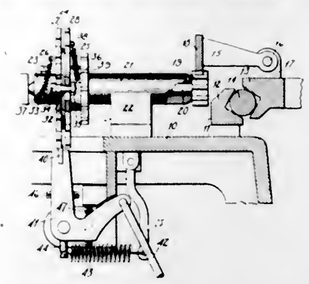
1,341,349. STEERING-GEAR. CHARLES A. WARD, Mount Vernon, N. Y. Filed Mar. 18, 1919. Serial No. 283,309. 6 Claims. (Cl. 74—79.)



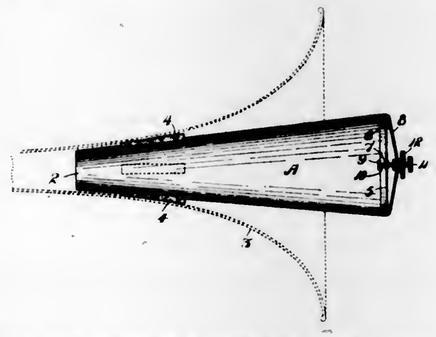
1. In a steering apparatus for vehicles, the combination with the steering wheel post, of a beveled pinion connected to said post at one end thereof, a pivotally mounted sector gear engaging said pinion, an integral support, a bearing at the upper part thereof for said wheel post and a bearing at the lower part thereof for said sector gear.

1,341,350. TYPEWRITER-ESCAPEMENT. LINAS F. WORDEN, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 4, 1915. Serial No. 6,041. 11 Claims. (Cl. 197—86.)

1. In an escapement for typewriters, an operating member, two escapement members movable relatively to each other and to the operating member and said operating member being movable in advance direction independently of each of said escapement members, resilient means for holding the escapement members yieldingly in predetermined positions advanced relatively to the operating member, and a dog for engaging the escapement members.

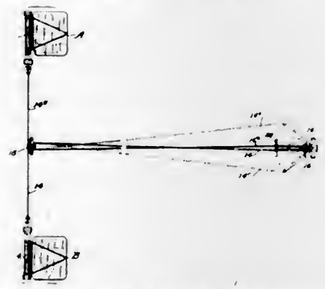


1,341,351. MUTE FOR CORNETS OR THE LIKE. FERDINAND A. BECKER, San Francisco, Calif. Filed July 14, 1919. Serial No. 310,736. 9 Claims. (Cl. 84—125.)



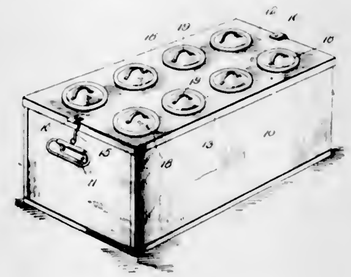
9. A mute comprising a cone-shaped tubular member, a diaphragm forming a closure for the large end of the tubular member, a disk member forming a partial closure for the reduced end of the tubular member, and a tube secured in the last-named disk member and extending into the cone-shaped tubular member, a striking plate secured to the center portion of the diaphragm, and a contact member with which the striking plate engages when the diaphragm vibrates, and means for adjusting the position of the stop member to increase or decrease the vibrations of the diaphragm.

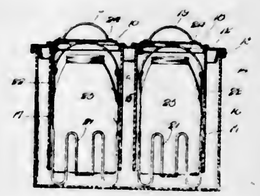
1,341,352. DIRECTION-INDICATOR. JOHANNES PAUL BECKER, Berkeley, Calif. Filed Aug. 6, 1919. Serial No. 315,660. 12 Claims. (Cl. 116—51.)



1. In a vehicle direction indicator of the character described, tubular shafts horizontally and transversely mounted at each side of the vehicle rear and having spiral slots made in said shafts, triangular bails having one end turnably clasping the tubes and the other ends bent to enter the spiral slots, flag-like indicators carried by the bails and turnable therewith by the action of the spiral slots to present to view either a flat face or an edge view of the flags, connections by which the bails may be moved in one direction to cause the spiral slots to turn them, and a return spring connected with the inclosed ends of the bail.

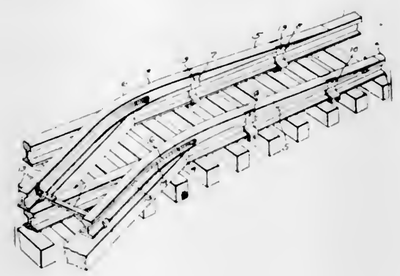
1,341,353. CANNING-BOILER. PRESTON BELVIN, Richmond, Va. Filed Sept. 5, 1919. Serial No. 321,823. 6 Claims. (Cl. 53—1.)





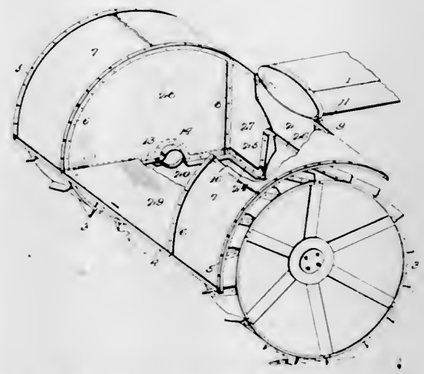
1. A device of the character described including a container, a lid closing the container, individual steaming hoods depending from the lid into the container, and closures for said hoods.

1,341,354. EMERGENCY-SWITCH. JAMES A. BOOTH, Whitbay, W. Va. Filed Oct. 18, 1919. Serial No. 331,530. 6 Claims. (Cl. 238—12.)



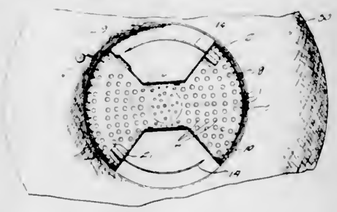
1. The combination with the rails of a railway track, rails superimposed thereon, clamping plates conforming to the contour of the faces of said rails, one of said plates passing under the base of the lower rail and forming a junction with the other of said plates, and means for forcing said plates toward each other.

1,341,355. TRACTOR-CAB. HENRY V. BROWNE, Tonkawa, Okla., assignor of one-third to Ruben J. Mead, Tonkawa, Okla. Filed July 16, 1919. Serial No. 311,251. 6 Claims. (Cl. 280—152.)



6. A cab for tractors comprising longitudinal base bars having inwardly extending lateral branches at their front ends and provided with arched portions intermediate their ends, said arched portions having longitudinal slots in their front sides, dished brackets provided at their front ends with T-shaped projections to engage said slots, means for securing the rear ends of said brackets to the base bars in rear of the arched portions thereof, a back bar connecting the rear ends of the base bars and extending laterally beyond the same, a platform carried by the base bars and the back bar, wheel guards carried by the base bars and the end portions of the back bar, said platform fitting around a transmission case and the ends of the transmission case being received between the arched portions of the base bars and the brackets below said portions, shields projecting inwardly from the front ends of the wheel guards and supported by the same and the base bars, said shields being constructed to fit against the tractor frame, and a bridge piece connecting the shields and secured to the tractor frame.

1,341,356. HAT-FASTENER. FRANCIS J. CANCIANICH, Newport News, Va. Filed Sept. 11, 1919. Serial No. 323,046. 8 Claims. (Cl. 132—25.)



1. A hat fastening including a plate cut out at opposite sides thereof, a plurality of hair engaging tines having their inner ends connected together and pivoted upon the plate, a spring operatively connecting the tines and normally urging the same to a position to bridge the cut out parts of the plate, and means for retracting the tines and locking the same in retracted position.

1,341,357. NEEDLE. JUAN T. CAREAGA, San Jose, Calif. Filed Sept. 1, 1917. Serial No. 189,311. 1 Claim. (Cl. 223—37.)

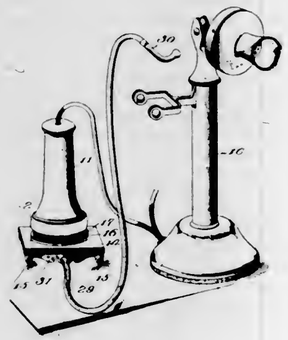
A needle comprising a body having an eye at one end and its other end pointed, said body being enlarged

from a point spaced from the eye and gradually tapering to the pointed end and having an elongated concaved



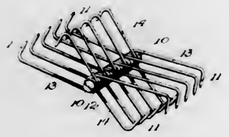
groove on each side terminating short of the pointed end of said body, and serrations formed on the bottom wall of each groove.

1,341,358. ACOUSTIC STAND FOR TELEPHONE-RECEIVERS. BYRON E. CHAPIN, Oklahoma, Okla. Filed Aug. 26, 1918. Serial No. 251,526. 3 Claims. (Cl. 179—147.)



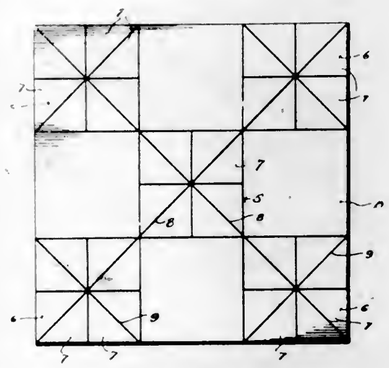
3. An acoustic stand for telephone receivers including a stand body, a sound tube upstanding therefrom, and a flexible sound excluding apron removably fitted upon the tube to be supported thereby above the body, the apron being adapted to contact at its free margin with the wall of the sound opening of the ear piece of a telephone receiver rested upon the stand over the tube.

1,341,359. BELT-SPLICER. CLARENCE CHARLES CLAYBERG, Detroit, Mich. Filed Apr. 13, 1918. Serial No. 228,418. 1 Claim. (Cl. 24—33.)



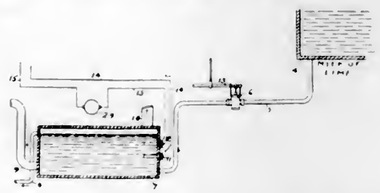
As a new article of manufacture, a belt fastening comprising a supporting rod and a plurality of sections each formed of a single wire bent into a coil to produce upper and lower clamping arms of different lengths terminating in anchoring spurs, all of the arms on one side of the rod and on one face of the belt being the same length and all of the arms on the same side of the rod and on the opposite face of the belt being of the same length and longer than the first mentioned arms, the anchoring spurs of all of said arms being adapted to be extended through the belt from one face thereof and bent flat against the other face of the belt and the anchoring spurs of the long arms being arranged in transverse alinement across the opposite faces of the belt and spaced longitudinally from and disposed out of alinement with the anchoring terminals of the short arms.

1,341,360. GAME. ELLIS C. COHEN, Willimantic, Conn. Filed Apr. 24, 1918. Serial No. 230,475. 1 Claim. (Cl. 46—21.)



A game apparatus comprising a board having central and corner squares thereon with their sides parallel with corresponding sides of the board and with the inner corners of the corner squares touching the corresponding corners of the inner square, each square having marked thereon its diagonal and its diameters intersecting at their centers and objects of different appearance movable over the board.

1,341,361. APPARATUS FOR REGULATING THE ACIDITY OF SULFITE LIQUOR AND OTHER LIKE PURPOSES. JOSEPH B. CRANDON, Portland, Me., assignor to Crandon Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Aug. 12, 1918. Serial No. 249,485. 5 Claims. (Cl. 23—13.)



1. In an apparatus for determining the concentration of a chemical solution, a receptacle for said solution, means for passing a current of electricity through the solution, an electric heating device through which said current passes having an expansion member and a movable element moved by the expansion of said member.

1,341,362. IGNITION DEVICE. LEO RANNEY, JOHN W. DISSETTE, and FRANKLIN E. TYRRELL, Washington, D. C.; said Ranney and Tyrrell assignors to said Dissette. Filed June 10, 1919. Serial No. 303,033. 10 Claims. (Cl. 123—148.)

1. In a device of the character described, the combination of a binding post, an electrode insulated with respect to the binding post, adjusting means, and a second electrode sustained by the adjusting means and electrically connected with the binding post, the adjusting means being operable for positioning the latter electrode with respect to the first electrode.

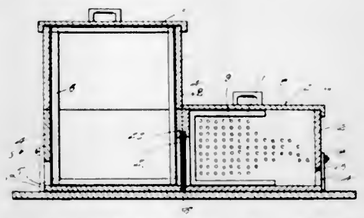


1,341,363. SILENCER AND FLASH-OBSCURER. ANTHONY FIALA, U. S. Army. Filed Mar. 26, 1919. Serial No. 285,346. 3 Claims. (Cl. 89—31.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A device of the character and for the purpose stated, consisting of a casing, detachable members mounted in the ends of said casing, one having a projectile passage and the other having a projectile passage and gas escape openings, a screw or spiral mounted in said casing and confined between the said end members, said screw having a projectile passage alining with the similar passages of the end members, a sleeve mounted between the end members and fitting the casing, and having a spiral groove through its length to receive and retain the outer edge of the convolutions of said screw.

1,341,364. BEEHIVE FOR RAISING QUEEN BEES. JAMES FISK, Stratford, Calif. Filed Apr. 12, 1918. Serial No. 228,145. 3 Claims. (Cl. 6—1.)

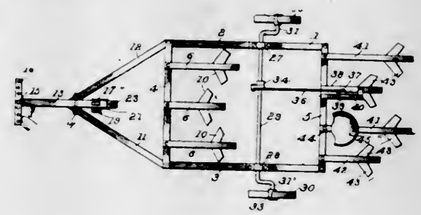


1. A hive for raising queen bees, comprising a main chamber divided by partitions into minor chambers, the partitions being perforated for the passage of worker bees but preventing the passage of the queens, a brood frame in each minor chamber, a super section abutting the main chamber and providing for the passage of the worker bees from each minor chamber, and a cover for the main chamber giving access to all of the minor chambers.

2. A hive for raising queen bees, comprising a main chamber divided by partitions into minor chambers, the partitions being perforated for the passage of worker bees but preventing the passage of the queens, the main chamber being provided with an entrance to each minor chamber, a gate for each entrance perforated for the passage of worker bees but preventing the passage of the queens, a brood frame in each minor chamber, a super section abutting the main chamber and providing for passage of the worker bees from each minor chamber, and a cover for the main chamber giving access to all of the minor chambers.

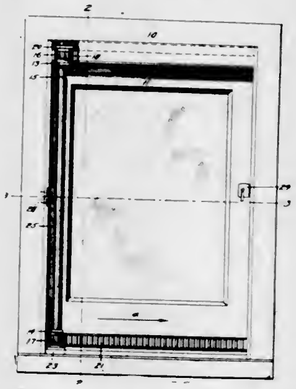
3. A hive for raising queen bees, comprising a main chamber divided by partitions into minor chambers, the partitions being perforated for the passage of worker bees but preventing the passage of the queens, a brooder frame in each minor chamber, a super section abutting the main chamber, the adjacent walls of the main chamber and super section being provided with registering perforations for the passage of the worker bees from each minor chamber, and a cover for the main chamber giving access to all of the minor chambers.

1,341,365. HARROW. VIGGO FOGH, Miles City, Mont. Filed Oct. 13, 1916. Serial No. 125,394. 1 Claim. (Cl. 55—74.)



In a harrow structure, a frame having side bars provided with converging forward extensions, a tongue having the forward ends of the side bars engaging the same at a point intermediate its length, a forward supporting caster having a stem extending through an opening formed in the rear portion of said tongue, securing means carried by the tongue and engaging the stem of said caster to releasably hold the caster in a set position and to permit the caster to be vertically adjusted with relation to the frame, a U-axle journaled upon the frame adjacent the rear edge thereof and extending transversely of the frame and having its end portion formed into spindles, rear traction wheels journaled upon said spindles, means for rotating said axle to adjust the rear traction wheels vertically with relation to the frame and releasably hold the frame in an adjusted position, and earth working means carried by the frame, the adjustability of the forward caster and rear traction wheels permitting the earth working means to be held in the desired relation to the ground.

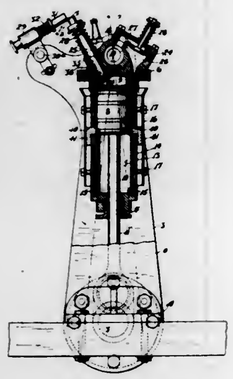
1,341,366. REVERSIBLE WINDOW. FRED FOURNIER, San Francisco, Calif. Filed Feb. 26, 1919. Serial No. 279,241. 5 Claims. (Cl. 20—42.)



1. In combination with a window frame and its sash, hinge plates secured to the top and bottom of said sash, and adjacent one corner thereof, a hinge rod extending

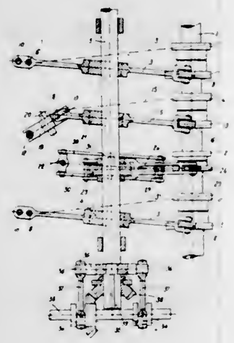
vertically through both of said plates, a pair of gears, one of which is fixed to each of the opposite outer ends of said rod, gear racks secured in parallel relation to each other to the outer face of the window frame and with which said gears are adapted to constantly mesh, a flanged saddle member within which the lower end of the rod is freely rotatable and a guide bar along which the saddle member is adapted to slide and by which the lower end of the rod is held in movable relation to the frame along a fixed path of travel.

1,341,367. INTERNAL-COMBUSTION ENGINE. GEORGE H. GRUSS, San Francisco, Calif. Filed Apr. 16, 1919. Serial No. 290,427. 11 Claims. (Cl. 123—42.)



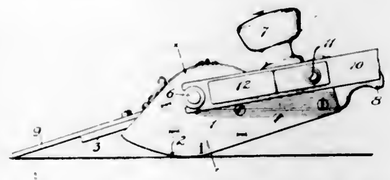
1. In an internal combustion engine, a cylinder mounted for oscillatory movement, an inlet valve in said cylinder, means for delivering an explosive mixture thereto, and means actuated by the oscillating movement of the cylinder for mechanically opening the valve, said means comprising a holder positioned adjacent one side of the cylinder, a plunger slidably mounted in said holder, and a stem on the valve adapted to be depressed by the plunger when the cylinder is swinging in one direction, said stem also adapted to depress the plunger when the cylinder is swinging in the opposite direction.

1,341,368. REVERSING-GEAR FOR MOTORS WITH VALVE-GEAR WORKED BY CAMS AND LEVERS. RENÉ GUYOT-SIONNEST, Paris, France, assignor to Societe Des Anciens Etablissements Weyher Et. Richemond, Pantin, France, a Corporation of France. Filed June 12, 1918. Serial No. 239,648. 3 Claims. (Cl. 123—41.)



1. The combination with a valve, of a shaft having a pair of cams thereon, an oscillatory lever, one end of which lever engages the valve and the other end of which is adapted to engage either of the cams, the axis of oscillation of the lever being disposed obliquely to the axis of the shaft, and means for reversing the angularity of the lever to shift the cam engaging end thereof from one to the other of the cams.

1,341,369. MECHANICAL SCRAPER. JOSEPH A. HOLLAND, Brooklyn, N. Y., assignor to Nelson W. Dingwall, Mount Vernon, N. Y. Filed Apr. 10, 1919. Serial No. 289,023. 7 Claims. (Cl. 29—76.)



1. In a tool of the character described, a main body having a curved supporting sole arranged to rest upon the surface to be scraped, a reciprocating tool carrier mounted in said body, means for reciprocating the same, means for securing a tool on said carrier in position whereby the operative end of the tool may rest upon the work in advance of the said sole.

1,341,370. HOLDER-ON. ALBERT HUNTER, Portland, Oreg. Filed May 6, 1919. Serial No. 295,229. 1 Claim. (Cl. 78—53.5.)



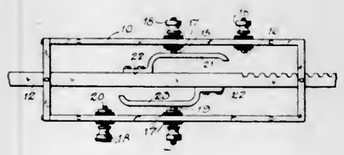
The combination with a rivet tool and its threaded screw bar having a longitudinal groove thereon, of a hollow internally threaded extension bar, a spring supported pin thereon for engaging the longitudinal groove of the screw bar, means for locking the pin in an engaged position, a second spring supported pin engaging the screw bar to limit the extension, a tool point on the lower end of the extension bar, and means for holding it in adjusted position.

1,341,371. PLATE-LIFTER. ERNST B. KILIAN, Highland Falls, N. Y. Filed May 14, 1917. Serial No. 168,497. 1 Claim. (Cl. 294—33.)



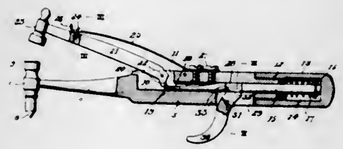
A plate lifter including a circular plate embracing portion, a plurality of loops formed therein to engage the edges of the plate, parallel terminals formed on said plate engaging portion one terminal being short, and the other being longer and bent upon itself and directed toward the short member, the extremities of said terminals being in alinement, a sleeve slidably mounted on the longer terminal and adapted to receive the other terminal therein, and a coiled spring in said sleeve urging the sleeve in a position to receive both terminals.

1,341,372. CIRCUIT-CLOSER FOR AUTOMOBILE-SIGNALS. ISAAC J. KISSELL, Colorado Springs, Colo., assignor of one-half to Arthur Vincent Smith, Colorado Springs, Colo. Filed June 19, 1918. Serial No. 240,807. Renewed Mar. 13, 1920. Serial No. 365,628. 5 Claims. (Cl. 200—59.)



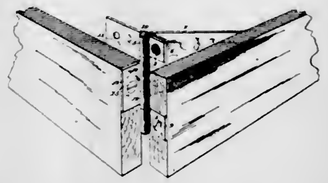
4. A circuit controller of the character described including a longitudinally reciprocatable rod, contacts mounted adjacent the rod and in transverse alinement, and contact members mounted on the rod and shiftable therewith, said contact members each having a base portion attached to the rod and extending outward therefrom, and a portion extending parallel to the rod but spaced therefrom and adapted to engage said contacts, said spaced portions of the contacts being resiliently yielding.

1,341,373. CENTER-PUNCH. FRANK FRIDERIK KOMATAR, East Moline, Ill. Filed Mar. 10 1920. Serial No. 364,856. 3 Claims. (Cl. 81—1.)



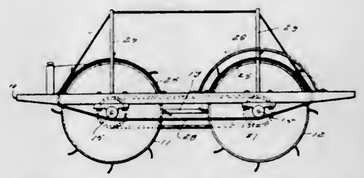
3. A center punch comprising a handle having an open longitudinal bore, said handle being provided with an upwardly extending slot communicating with the forward end of said bore and a downwardly extending slot communicating with the intermediate portion of said bore, a trip rod slidable within said bore, a trigger pivoted to the handle within the last named slot of the latter and operatively connected with said trip rod for forwardly sliding the latter, a trip lever pivoted to the handle within the first mentioned slot of the latter and operatively connected with the forward end of said trip rod whereby forward movement of the latter will cause upward swinging movement of said trip lever, a shank upon the forward end of said handle, a transverse anvil upon the free forward end of said shank, a hammer upon the free forward end of said trip lever, a leaf spring having its forward end connected to the trip lever adjacent the hammer and having its rearward end rigidly attached to the handle so as yieldably to suspend the hammer above said anvil, a chambered cap secured upon the rearward end of said handle and into the chamber of which the rear end of said trip rod extends, and a spring encircling said trip rod within said chamber for normally yieldably maintaining said trip rod rearwardly positioned.

1,341,374. HINGE. FRANK KOSTLAN, Traer, Iowa. Filed Feb. 2, 1920. Serial No. 355,628. 1 Claim. (Cl. 16—11.)



A hinge, the pivotally connected members of which have hinge-pin ears, with fastening wings springing at a diverging angle from each ear, for double attachment around corners, the meeting and passing wings being narrowed with respect to the adjacent ears, to prevent abutting contact of said wings as the ears wear endwise.

1,341,375. WATER-AUTOMOBILE. CHARLES A. LE JEUNE, Burton, La. Filed Apr. 20, 1918. Serial No. 229,825. 2 Claims. (Cl. 115—19.)



1. In a water vehicle, a frame, rotatable floats journaled in the frame and disposed to maintain an even balance thereof, means for propelling the floats, longitudinally bowed straps secured to the frame upon opposite sides of each of the rotary floats and spanning the same, the straps being adapted to engage the floats to retain the same against vertical movement should the journal of one of the same become broken.

1,341,376. BILLIARD-CUE CHALKER. FRED AGUSTUS LEWIS, Millertown, Newfoundland. Filed May 21, 1919. Serial No. 298,642. 1 Claim. (Cl. 46—8.)



A cue chalker comprising a cylinder internally reduced at its lower end, the reduced portion containing a female thread, a rod having a male thread operating in the female thread of the reduced portion, a head formed on the upper

end of the rod fitting the cylinder, a chalk holder secured to the lower end of the rod, a knob formed on the chalk holder, said knob being of greater diameter than the rod, and a coil spring received in the cylinder and having one end engaging the head on the upper end of the rod.

1,341,377. TRACK-LEVEL. FRANK P. LONGCOR, Keokuk, Iowa. Filed July 20, 1916. Serial No. 110,400. 2 Claims. (Cl. 33—145.)



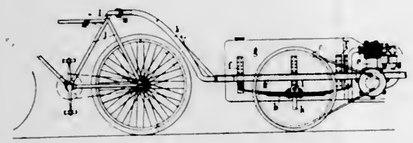
1. A device of the character described comprising a board having a recess adjacent its lower marginal edge, a gage bar slidably mounted in said recess, a transverse groove at one end of the board, a scale slidably mounted in said groove, and means adapted to normally hold the gage bar in a raised position.

1,341,378. TOOL-HANDLE. WALTER MCKENZIE, Detroit, Mich. Filed Mar. 1, 1919. Serial No. 280,070. 5 Claims. (Cl. 145—61.)



1. In a tool handle, an inner series of wire strands twisted spirally and having their end portions extended longitudinally of the handle, and an outer series of wire strands twisted spirally about said inner series and having their end portions extended longitudinally of the handle, the end portions of said inner series of wires being upwardly off-set and interposed with the end portions of the outer series so as to prevent relative movement between the strands of said inner and outer series.

1,341,379. AUTO-PROPELLED VEHICLE. RAYMOND MAUCLAIRE, Asnières, and LÉOPOLD DELAMOTTE, Paris, France. Filed Nov. 23, 1917. Serial No. 203,565. 2 Claims. (Cl. 180—11.)



1. In combination with a cycle, a self-propelled vehicle having a driving wheel on one side and a free wheel on the other, said driving wheel in alinement with the vertical plane of the cycle wheels, and a coupling attaching the said vehicle to the said cycle and adapted to allow of each adjusting itself to curves in the track.

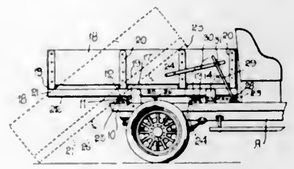
1,341,380. AUTOMOBILE-TIRE. THEODORE MEYER, Birmingham, Ala., assignor of one-half to William Amott, Salt Lake City, Utah. Filed Jan. 24, 1918. Serial No. 213,572. 2 Claims. (Cl. 152—22.)

1. A pneumatic tire comprising a casing, a plurality of partitions in the casing to form a plurality of compartments, an air cell positioned in each compartment, means for inflating the air cells, an air pocket formed in each



partition, and means for controlling the flow of air into and out of the air pockets, as and for the purpose specified.

1,341,381. DUMPING-WAGON ATTACHMENT FOR AUTOMOBILES. THOMAS EDWARD NEWTON, Zellwood, Fla. Filed Apr. 6, 1918. Serial No. 227,066. 1 Claim. (Cl. 298—38.)



In a dumping wagon, a base supporting frame, a body slidingly supported on said frame for longitudinal movement, and means for latching the body in its forward position upon the supporting frame comprising downwardly extending hooks on the forward end of the body, a transverse shaft mounted on the supporting frame and having a cranked portion adapted in one position to engage with said hooks, a lever on one end of the shaft whereby the shaft may be rotated to its operative or inoperative position, and a resilient latch mounted on the body and engaging with said lever to hold it in its operative position.

1,341,382. CLOSURE FOR JARS AND THE LIKE. HULLIHEN D. QUARRIER, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Dec. 23, 1919. Serial No. 346,831. 5 Claims. (Cl. 215—13.)



1. A closure for jars and the like, comprising a cap having a downwardly extending flange, a liner located within the cap, said liner being provided with marginal tabs bearing against the inner side wall of the flange and maintaining the liner in place by frictional contact therewith.

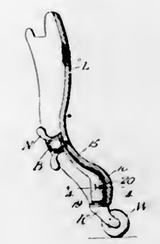
1,341,383. RUBBER HEEL. GILBERT F. QUINN, Revere, Mass. Filed May 10, 1918. Serial No. 233,666. Renewed Apr. 7, 1920. Serial No. 372,271. 4 Claims. (Cl. 36—35.)

3. A rubber heel having a chamfered inner portion forming an unobstructed air cushion, a flat nail hole rim extending around said portion, a substantial upturned rim extending around the heel beyond the nail hole rim, the lower face of the upturned rim being beveled to a greater degree than the upper face, said lower face being shaped to present a flat wearing surface as the heel



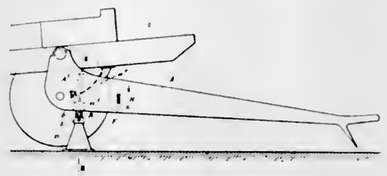
strikes the ground in ordinary use, the bottom of the heel having a raised platform in which the aforesaid lower beveled face terminates.

1,341,384. CASTER ATTACHMENT FOR STOVE-LEGS. JOSEPH O. SABOM, Superior, Wis. Filed Oct. 17, 1919. Serial No. 331,300. 2 Claims. (Cl. 16—165.)



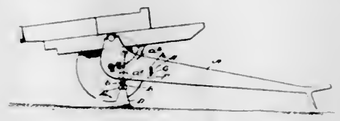
2. In combination, a stove leg having reversely curved portions, a bolt carried by said leg, an arm curved to conform to the contour of either of said curved portions, said arm being removably fitted on said bolt and capable of occupying active and inactive positions, in which it contacts with one or the other of said curved portions, a nut for securing said arm on said bolt, and a caster carried by said arm.

1,341,385. APPARATUS FOR TRAINING GUNS MOUNTED ON WHEELED GUN-CARRIAGES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Feb. 14, 1918. Serial No. 217,195. 11 Claims. (Cl. 89—40.)



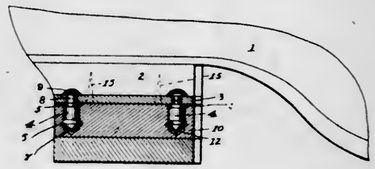
1. In an apparatus for training a gun comprising a wheeled gun carriage, the combination with the gun carriage, of a foot adapted to rest upon the ground and constituting the fixed member of a lifting jack, the movable complementary member of the lifting jack including vertical and horizontal axes located substantially in vertical alinement with the carriage and carrying trunnions coincident with said horizontal axis, bearings for said trunnions on the carriage trail, and means for moving apart the fixed and complementary members of the lifting jack to support the gun and its carriage approximately in equilibrium so that the gun trail can be manually lifted and the gun trained.

1,341,386. APPARATUS FOR TRAINING GUNS MOUNTED ON WHEELED GUN-CARRIAGES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Joint-Stock Company of France. Original application filed Feb. 14, 1918, Serial No. 217,195. Divided and this application filed Feb. 28, 1919. Serial No. 279,872. 12 Claims. (Cl. 89—40.)



1. In combination with a wheeled gun carriage, a foot adapted to rest on the ground, a movable element cooperating with said foot to constitute a lifting jack, a member horizontally pivoted to the gun carriage and vertically pivoted to said movable element, and a spring between the movable and fixed elements of said lifting jack to approximately balance the weight of the gun carriage and supported parts.

1,341,387. ATTACHABLE HEEL. GEORGE SCHRADE, New York, N. Y. Filed Jan. 23, 1919. Serial No. 272,695. 1 Claim. (Cl. 36—42.)

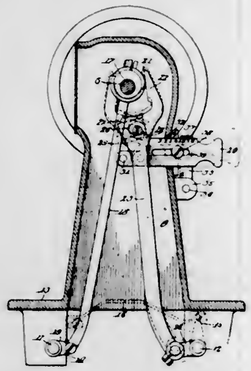


The combination with a shoe having depending pins secured thereto, each pin having a relatively long straight shank and an enlarged head at the end of the shank and provided with oppositely beveled annular surfaces meeting in a sharp peripheral edge around said head, of a detachable surface member having straight-walled sockets to register with said pins, said sockets being substantially the same diameter throughout as the shanks of the pins so that said peripheral edges will bite into the walls of the sockets when the surface member is attached for retaining the same on the shoe, one of the beveled surfaces on the head of each pin serving to guide said head into its socket when the surface member is attached, and the other beveled surface guiding the head out of the socket when the surface member is detached.

1,341,388. FEED MECHANISM FOR SEWING-MACHINES. ALBERT D. SMITH, Detroit, Mich. Filed July 30, 1918. Serial No. 247,427. 4 Claims. (Cl. 112—210.)

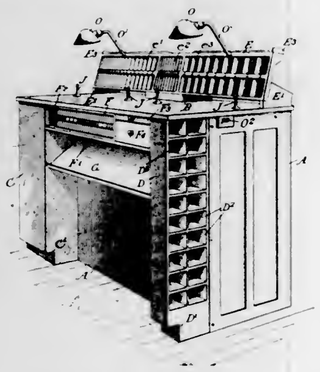
1. In a sewing machine, the combination of a head having an upright column, a driving shaft passing through the upper end of said column, a feed bar, motion trains passing through the vertical column and operable between said shaft and said feed bar for imparting feed motion to the latter, means for regulating the feed motion comprising a rocker member having a guide-way, a guide on one of said motion trains adapted to be actuated by said guideway to vary the length of the feed movement and effect reversal thereof, and a regulating member slidable horizontally through an opening in the front wall of said vertical column and pivotally connected

at its inner end to said rocker member and shaped at its outer end to provide a suitable hand grasp by means



of which the regulating member may be positioned in or drawn out at will to quickly regulate the length and direction of feed movement.

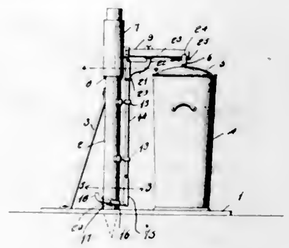
1,341,389. PRINTER'S CABINET. FRANK J. SMITH, New York, N. Y. Filed June 13, 1917. Serial No. 174,416. 8 Claims. (Cl. 211—41.)



1. A printer's cabinet comprising, in combination, a main casing containing two similar series of primary type cases arranged to be slid outwardly from the rear, a double length make-up table supported on the top of said casing and projecting forwardly beyond the front or closed side thereof, and two supplemental casings projecting forwardly to a substantially equal extent from the front or closed side of the main casing and located at the opposite ends thereof below said table, one of said supplemental casings containing a series of auxiliary type cases arranged to be slid outwardly in a direction at right angles to that of the primary type cases, and the other of said casings containing a series of open boxes or compartments.

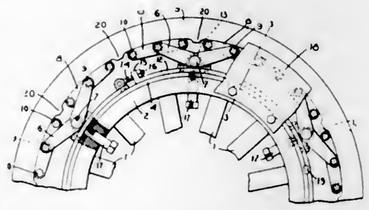
1,341,390. LID-LIFTER FOR RECEPTACLES. EDWARD SNICKERS, Matlock, Wash. Filed Aug. 23, 1918. Serial No. 251,138. 4 Claims. (Cl. 212—4.)

3. A lid lifter for receptacles comprising a supporting post, an arm connected to said supporting post and adapted to have upward and lateral movement, means connecting said arm to the lid of a receptacle, an actuating rod slidably connected to said post, and a lever journaled to the upper end of said rod and to the arm, and



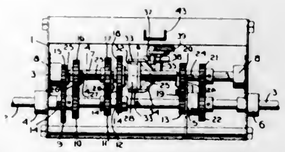
a foot pedal pivoted to said post and connected to the actuating rod for exerting upward pressure upon the arm.

1,341,391. RESILIENT TIRE. JOSEPH SPADAFORA, Cambridge, Mass. Filed May 10, 1919. Serial No. 296,171. 3 Claims. (Cl. 152—8.)



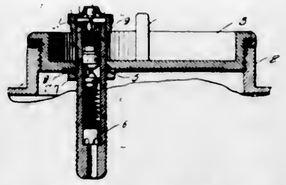
3. In a wheel having a resilient tire, the combination with a wheel body, of a split rim applied thereto, means for expanding said rim, a plurality of rocking members pivoted to the rim intermediate their ends and situated entirely exterior to the rim, supporting members pivoted to the ends of the rocking members, and a resilient tread member encircling and bearing against the supporting members, said split rim, rocking members and supporting members being removable as a unit from the wheel body.

1,341,392. TRANSMISSION-GEARING. JOSEPH SPADAFORA, Cambridge, Mass. Filed Oct. 24, 1919. Serial No. 332,885. 3 Claims. (Cl. 74—59.)



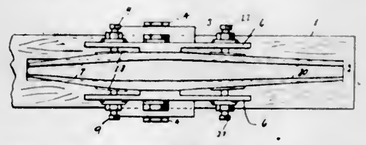
1. In transmission gearing, the combination with a driving shaft, of a plurality of gears of different sizes fast thereon, a second shaft having a keyway extending longitudinally thereof, a plurality of driven gears loosely mounted on said second shaft and meshing with the gears on the driving shaft, said second shaft having an annular groove therein adjacent each gear thereon, a projection extending from each driven gear into the adjacent groove in said second shaft, and a key slidable in said keyway and adapted to be brought into operative driving connection with the various projections.

1,341,393. GASOLENE-FEED. SAMUEL I. STOKES and THOMAS J. WYATT, Casper, Wyo. Filed Jan. 17, 1919. Serial No. 271,723. 1 Claim. (Cl. 158—46.)



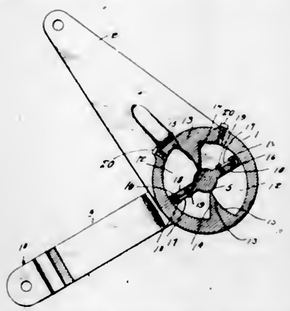
A device of the character set forth including a closure member, a valve housing secured to the member, an inwardly opening valve in said housing, a cap detachably and adjustably secured to the casing and having openings in the top thereof, and an inwardly directed projection formed on said cap for unseating the valve by adjusting the cap of the housing.

1,341,394. PICKER-STICK FRICTION-BUNTER. CHARLES M. STONE, Lewiston, Me., assignor of one-half to William H. Putnam, Lewiston, Me. Filed July 1, 1918. Serial No. 242,889. 1 Claim. (Cl. 139—22.)



A picker check comprising a pair of spring plates arranged to engage opposite sides of a picker stick, said plates being free at the ends and secured at points that are a greater distance apart than the ends, with means intermediate the ends and the points of attachment for varying the distance between the free ends.

1,341,395. SHOCK-ABSORBER. LOUIS D. SUTTON, Libby, Mont. Filed Feb. 4, 1919. Serial No. 274,958. 3 Claims. (Cl. 74—69.)



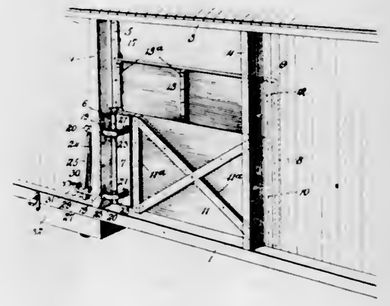
2. In a shock absorber, a casing, an attaching arm carried thereby for attaching the casing to a vehicle body, a supporting shaft extending through said casing, a yoke receiving the end portions of said shaft and adapted to be secured to a vehicle axle, the shaft being secured against rotary movement independently of the yoke, said casing being provided with oil chambers positioned at opposite sides of the shaft and having their outer walls curved on arcs eccentric to the axis of said shaft, the oil chambers being oppositely directed, and blades carried by said shaft and projecting radially therefrom, said blades being positioned diametrically opposite on the shaft and operable in the oil chambers.

1,341,396. CLOTH FABRIC. SAMUEL F. SWANTEES, St. Louis, Mo. Filed Feb. 24, 1919. Serial No. 278,761. 2 Claims. (Cl. 154—45.)



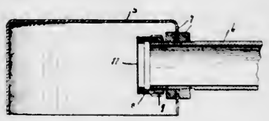
1. A fabric composed of a number of superimposed layers of ribbed cloth, with the wales of the respective layers disposed transversely so as to form air cells throughout the fabric and so as to impart elasticity to the fabric.

1,341,397. GRAIN-CAR DOOR. ALBERT SWITZER, Grenfell, Saskatchewan, Canada. Filed June 14, 1919. Serial No. 304,319. 3 Claims. (Cl. 20—30.)



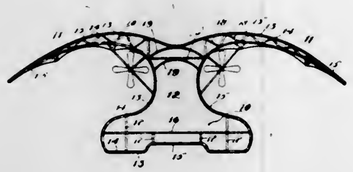
1. In a grain car door, the combination with a door member, of a hinge member of substantially equal height to said door member, said hinge member comprising an attaching plate having slots, and a swinging plate hinged to the attaching plate and adapted to bear against the outer side of the door member, at one end, arms connected to said swinging plate and passing through the slots of the attaching plate, and means for locking said arms to hold said swinging plate in direct engagement with said door member.

1,341,398. END CLOSURE FOR WIRE-CONDUITS. HARRY M. TEMPLE and PHILIP KEARNEY, Detroit, Mich., assignors to Detroit Closed Bushing Company, Detroit, Mich. Filed Aug. 18, 1916. Serial No. 115,663. 6 Claims. (Cl. 285—26.)



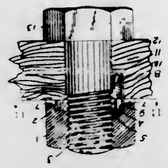
1. As an article of manufacture, a conduit closure consisting of a bushing having an internal shoulder adjacent an end thereof, and a closure cap for said bushing comprising an end wall, and a flange extending into said bushing conforming to the shoulder.

1,341,399. AEROPLANE OR HYDROAEROPLANE CONSTRUCTION. SCOTT H. TOLMAN, Boston, Mass. Original application filed July 10, 1917, Serial No. 179,633. Divided and this application filed June 17, 1918. Serial No. 240,273. 4 Claims. (Cl. 244—31.)



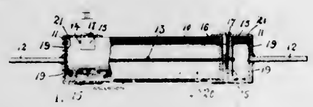
1. An aircraft comprising metallic frame members of channel-shape cross-section arranged in annular relation, the edges of said members being outermost and in flush relation, and a sheathing of flexible sheet metal fastened to said frame against said edges.

1,341,400. LOCK-NUT. JOHN VAROGA, Pittsburgh, Pa. Filed Nov. 20, 1919. Serial No. 339,357. 2 Claims. (Cl. 151—39.)



2. In a lock nut a member having one face thereof recessed and further provided with a plurality of ratchet-shaped abutments, said face further formed with transverse grooves opening outwardly and terminating in said recess, each of said grooves extending in a direction parallel to an abutment.

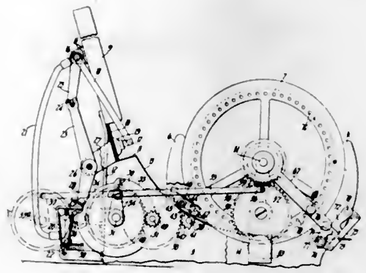
1,341,401. REFILLABLE FUSE. EDWIN C. WEISGERBER, U. S. Army. Filed Oct. 2, 1918. Serial No. 256,562. 6 Claims. (Cl. 200—132.) (Filed under the act of Mar. 3, 1883, 22 Stat. L. 625.)



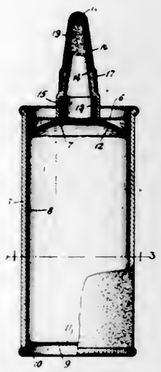
1. A refillable fuse comprising an insulating tube having arcuate slots spaced from its ends, caps having conductor blades and engaging over the ends of the tube and over the arcuate slots thereof, a fuse within the tube, and coupling members having their inner faces bearing upon the fuse and the outer faces fitting in and extending through the slots and in contact with the caps.

1,341,402. STENCIL-MACHINE. LESTER A. WERNERY, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 13, 1918. Serial No. 253,980. 12 Claims. (Cl. 101—118.)

1. The combination with a shaft adapted to be revolved continuously, of a printing cylinder adapted to be revolved intermittently by said shaft, a pair of feed-rolls adapted to be revolved continuously by said shaft to feed work-sheets to the cylinder, a device for holding the work-sheets above said feed-rolls, a guide to guide the work-sheets from the holding device to the feed-rolls, and means operated by said shaft for intermittently removing work-sheets from the holding device and delivering them to the guide to be delivered to the feed-rolls.



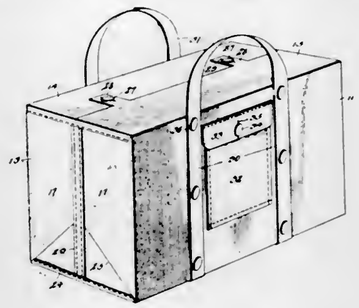
1,341,403. CONTAINER. ARTHUR W. WILKINSON, Easton, Pa., assignor to Sterling Products Company, Inc., Easton, Pa., a Corporation of New York. Filed June 25, 1919. Serial No. 306,542. 7 Claims. (Cl. 220—11.)



1. A container comprising an inner tube of relatively soft metal of inherent weakness, a stiff outer tube of compressible material surrounding said inner tube and protecting the same aganinst collapse and perforation, and a stiff metal closure for said container attached to one end thereof and extending into the same, said closure clamping said soft metal between its inwardly extending portion and a compressed part of said outer tube to form a fluid-tight joint.

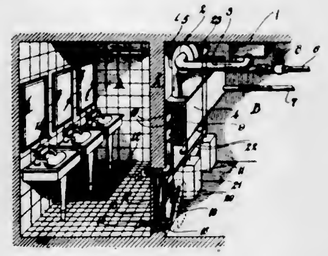
1,341,404. SHOPPING-BAG. EMILIA WISNIEWSKA, Washington, Pa. Filed June 7, 1918. Serial No. 238,796. 1 Claim. (Cl. 190—43.)

A bag of the character described cut from a single piece of material and formed of a blank cut to provide parallel top and bottom walls, side walls and end walls, the latter being formed of flaps extending from each edge of the side panels, the said flaps being separated by the width of the bottom panel and the blank being folded with the outer longitudinal edges of the flaps abutting, closure flaps extending from the outer edges of the side panels,



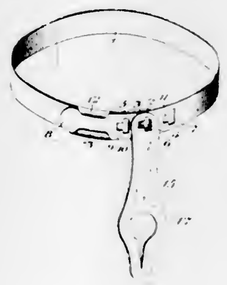
and means for securing the adjacent edges of the walls together in a manner to permit of the bag being folded in a flat condition.

1,341,405. AIR-DRYING APPARATUS. JOHN H. WOODARD, Spokane, Wash. Filed Dec. 20, 1919. Serial No. 346,242. 3 Claims. (Cl. 34—26.)



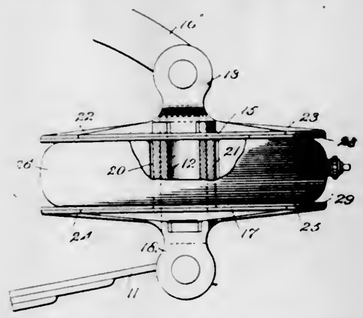
3. The combination with the heating appliance, a fan blower connected thereto and discharge pipes from said appliance, a valve in each pipe and a swiveled nozzle for each pipe, an independent pedal mechanism for actuating each valve, an electric switch adapted to be closed by the actuating of each pedal mechanism, an electric motor for the fan blower, and electrical connections from each switch to the motor.

1,341,406. GARMENT-SUPPORTER. WILLIAM F. ADE, Philadelphia, Pa. Filed Dec. 13, 1918. Serial No. 266,542. 5 Claims. (Cl. 241—6.)



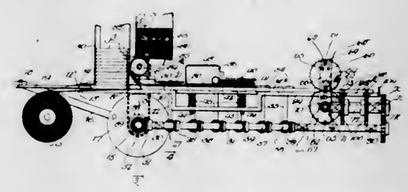
5. A garter comprising a band of inelastic flexible material having a stud or button at one end provided with a vertically elongated head, and a plurality of vertically elongated apertures at the other end having recesses extended toward the end remote from the button, and adapted to receive the stud or button, said band having flanges extending from its opposite edges arranged to form a guide or guard for the free end of said band when the ends of said band are clasped together by said stud or button, and an inelastic hanger detachably engaged with said stud or button and having a horizontally elongated aperture through which said stud or button may be thrust.

1,341,407. SHOCK-ABSORBER FOR VEHICLES. WILLIAM N. AMORY, New York, N. Y. Filed June 9, 1919. Serial No. 302,896. 7 Claims. (Cl. 267—65.)



2. A shock absorbing device for vehicles comprising a pneumatic cushion, opposed pairs of shock transmitting sectors forming a part of an upper member and opposed pairs of similar sectors lying normally side by side with said first named sectors and adapted to slide past them, a pneumatic cushion between opposed pairs of sectors, and distributing plates interposed between said sectors and said cushion on both faces of said cushion.

1,341,408. WRAPPING-MACHINE. HARRY Y. ARMSTRONG, Springfield, Mass. Filed Aug. 7, 1918. Serial No. 248,763. 19 Claims. (Cl. 93—2.)

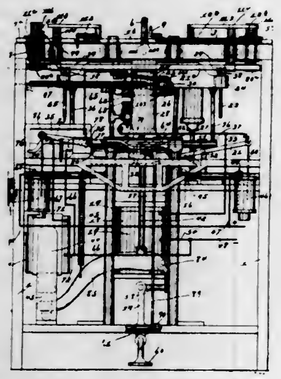


5. A machine for wrapping and sealing articles in wax impregnated wrappers comprising means to fold a wrapper about the article and to form overlapping flaps against said article, heat sealing means adapted for contact with said flaps to soften the wax thereof, and a thin gas and wax excluding element abreast said heat sealing means of substantially uniform thickness throughout and adapted to lie between said article and said overlying flaps.

1,341,409. FOLDING-MACHINE. WALTER J. BEATTIE, Cohoes, N. Y., assignor to The Beattie Manufacturing Co., Cohoes, N. Y., a Corporation of New York. Filed Sept. 17, 1917. Serial No. 191,721. 22 Claims. (Cl. 223—55.)

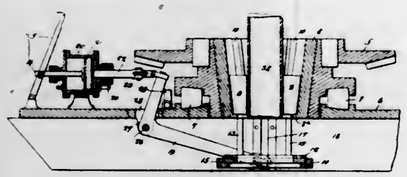
1. In a machine of the class described and in combination, a frame having a top: an infolder movable inwardly and outwardly over said top: an eccentric-strap connected with said infolder: a rotatory shaft extending vertically

through said top projecting above the plane of said eccentric-strap; means located beneath said top for imparting rotative movement to said shaft; an eccentric within



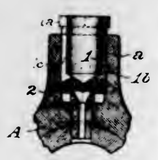
said eccentric-strap having a sleeve surrounding said shaft above the eccentric-strap; and means whereby said sleeve can be fixed to said shaft in different positions of rotative adjustment.

1,341,410. ROTARY DRILLING-MACHINE. LEE JACKSON BLACK, Beaumont, Tex. Filed Dec. 13, 1918. Serial No. 266,590. 8 Claims. (Cl. 255—23.)



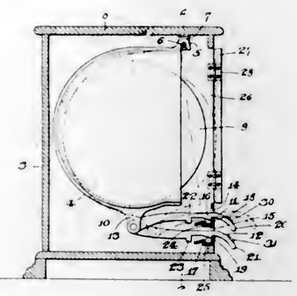
1. In a rotary drilling machine, a member having a vertical work receiving opening, work-gripping blocks mounted in said opening and movable downwardly therein to grip the work, stems engageable with the blocks for elevating the same to release the work, a support for said stems, and means for elevating and lowering the support.

1,341,411. GREASE-CUP PLUG. JAMES G. BLUNT, Schenectady, N. Y. Filed Oct. 8, 1919. Serial No. 329,358. 4 Claims. (Cl. 184—48.)



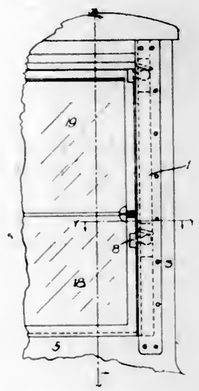
4. The combination of a lubricating cup, the lubricant chamber of which has cut upon it an internal screw thread; a tubular plug having an external screw thread adapted to engage the thread of the lubricant chamber, and a longitudinal slot extending from its top to or near its bottom, the threads of the cup and plug being inclined to their common axis at different angles, respectively; and a supplemental externally threaded plug engaging an internal thread on the first specified plug.

1,341,412. FILING-CABINET. ELLWOOD V. BROWN, Philadelphia, Pa. Filed Mar. 22, 1919. Serial No. 284,385. 7 Claims. (Cl. 211—16.)



1. The combination of a supporting frame, a holder pivoted to the frame to swing by gravity from a normal position to a position forwardly thereof when released, a retaining bar secured to the support, and a latch pivoted to the holder and resting normally on said bar and having a tooth engaging said bar and retaining the holder in said normal position, said latch being operative to release the holder, and said tooth being beveled rearwardly and upwardly causing it to raise the latch and ride over said bar when the holder is manually returned to said normal position.

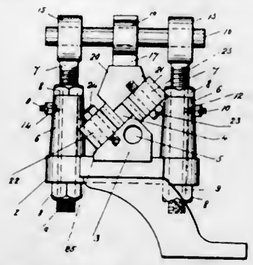
1,341,413. SLIDING WINDSHIELD-JOINT. CLARENCE P. CHAMBERLIN, Birmingham, Mich. Filed June 27, 1918. Serial No. 242,130. 3 Claims. (Cl. 296—93.)



1. A wind shield hinge comprising the combination with the wind shield and side frames therefor, of a hinge member consisting of a block slidably supported in each frame, a support for the section on each side engaging in the respective blocks and rotatably supported therein, said blocks being split, a screw supported in each block by means of which the supporting member may be frictionally bound therein, the binding of the screw in the block further binding the block in position in the frame.

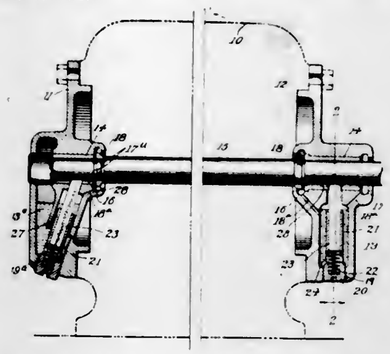
1,341,414. PRESS. JESSE F. COMSTOCK, Wilkes-Barre, Pa. Filed Oct. 14, 1919. Serial No. 330,599. 3 Claims. (Cl. 100—57.)

1. In a press, a stationary bottom bar having two upper sides arranged at an angle to each other, a side bar secured to one of the sides of the bottom bar and forming with it an angular groove, a movable top bar having two lower sides arranged at an angle to each other and having their apex arranged to one side of the apex of the bottom bar, a side bar secured to one of the sides of the top bar and forming with it an angular groove, and means



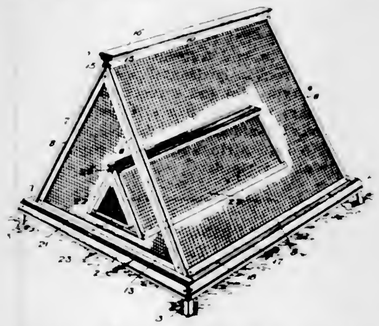
for forcing downwardly the top bar and the side bar secured to it.

1,341,415. SELF-LUBRICATING BEARING. OLIVER F. CONKLIN, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed July 10, 1917. Serial No. 179,641. 12 Claims. (Cl. 64—24.)



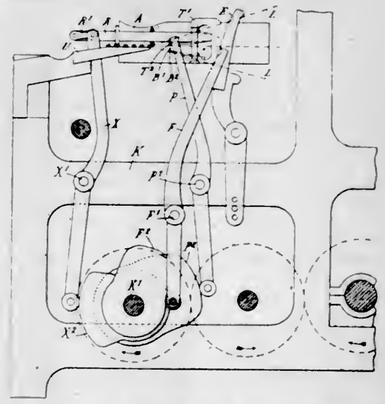
1. An end bearing for a shaft of an electric machine, comprising an end plate for said machine, said plate having therein an integral oil reservoir, a bearing carried by the plate adapted to receive a shaft, said bearing and end plate having an opening extending into the reservoir and a wick extending from the reservoir through the opening and carrying the oil to the shaft, and means mounted in the reservoir for supporting and guiding said wick.

1,341,416. FLYTRAP. CHARLES M. CURRY, Paducah, Ky. Filed Sept. 6, 1917. Serial No. 190,002. 2 Claims. (Cl. 43—118.)



1. A knock-down fly-trap comprising an inner and outer frame, each composed of rectangular sides and triangular ends, the edges of which are detachably connected together, and a hollow key engaging the flared upper edges of the side members of the outer frame, whereby the end and side members are held in place, and the apex of the end members of the inner frame bent downwardly when assembled to prevent the dismemberment of the inner frame.

1,341,417. LOOM FOR WEAVING TUFTED FABRICS, SUCH AS CARPETS AND THE LIKE. ARTHUR DAVIS, Kidderminster, England, assignor to Thomas Bond Worth & Sons Limited, Stourport, England. Filed June 6, 1916. Serial No. 102,075. 6 Claims. (Cl. 139—66.)

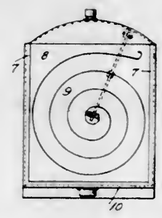


1. In a loom for weaving tufted fabrics, means for inserting all the wefts necessary for one kind of weave simultaneously, a shuttle mechanism on one side of the loom for forming the selvage, a retainer finger located at the shuttle side of the loom for retaining a portion of the wefts and placer or pusher fingers for advancing the other part of the wefts toward the fell prior to beating up the wefts, the tufts being inserted in the space thus provided.

1,341,418. TOBACCO-PIPE. ALFRED DUNHILL, St. James, London, England. Filed Oct. 14, 1918. Serial No. 258,053. 1 Claim. (Cl. 131—12.)

A process for the production of tobacco pipes, consisting in shaping the article in the ordinary way from wood, steeping the wood in a vegetable or mineral oil, subjecting the wood after steeping to treatment by heat of a sufficient degree to cause exudation of the oil, then to the action of a sand jet or sand blast until the oily exudation and softer portion of the wood are slightly removed and the more resistant portions left in relief.

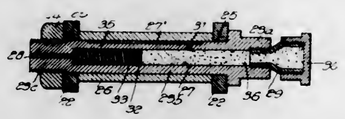
1,341,419. ATTACHMENT FOR GAS-ENGINE RADIATORS. EDWARD FERRISS, Carson Lake, Minn. Filed Dec. 14, 1918. Serial No. 266,802. 6 Claims. (Cl. 257—132.)



1. The combination, with a gas engine radiator, of a suitable housing mounted in front of the radiator and

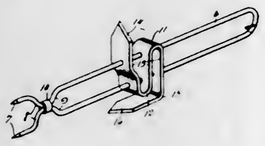
provided with an opening therein, a plate fitting said opening, said plate having a helical coil formed therein which, when opened, will admit a circulation of air to said housing and radiator, and means for opening said coil.

1,341,420. LUBRICATING APPARATUS. JOHN A. FESLER, Detroit, Mich. Filed Aug. 25, 1919. Serial No. 319,673. 5 Claims. (Cl. 64—27.)



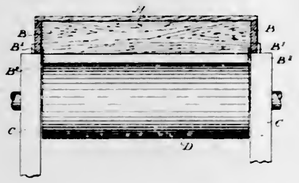
2. A bolt of the class described, having a longitudinal passage therein, a radial opening extending from said passage to the outer surface of the bolt, means through which lubricant under pressure may be forced into said passage, a device for preventing the escape of lubricant through said last mentioned means, a plunger in said passage, a spring in said passage acting against the plunger and tending to move said plunger to force the lubricant out of said passage, whereby said spring is compressed when lubricant is forced into said passage under pressure, and a passage affording communication between the atmosphere and the space behind said plunger.

1,341,421. CAN-OPENER. COLEMAN FINLEY, Dudley, Ill. Filed Jan. 2, 1920. Serial No. 348,792. 1 Claim. (Cl. 30—3.)



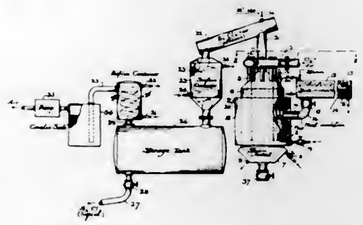
A can opener comprising a handle consisting of a loop with forwardly extending branches each of which ends in an offset point adapted to be inserted through the top of a can, and a cutter member consisting of a folded piece of metal through which the branches of the handle extend, said member terminating in blades at its opposite ends, one blade being presented at an angle to the axis of the handle and the other parallel thereto.

1,341,422. GUARD FOR RUBBER MILLS AND LIKE MACHINES. LUCIEN GAISMAN, Manchester, England, assignor of one-half to Sylvain Dreyfus, Manchester, England. Filed Sept. 2, 1916. Serial No. 118,170. 4 Claims. (Cl. 18—2.)



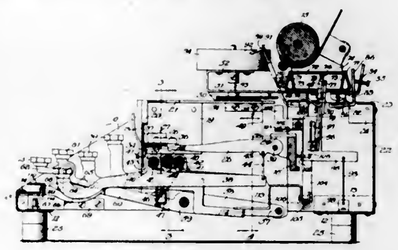
1. In a rubber mill, the combination with rollers and a supporting frame, of a guard for said rollers disposed adjacent one of the rollers and spaced therefrom, an amount slightly greater than the thickness of material normally passing between the rollers and the guard, said guard being hingedly mounted on the supporting frame, whereby the passage of abnormal thicknesses of material between the guard and the rollers will be permitted by the swinging of the guard.

1,341,423. PROCESS FOR MAKING SULFUR CHLORID. RALPH E. GEGENHEIMER and MAX MAURAN, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works (Inc.), Providence, R. I., a Corporation of Virginia. Filed Dec. 28, 1918. Serial No. 268,602. 9 Claims. (Cl. 23—10.)



1. The process of making monochlorid of sulfur which comprises, treating with free chlorin a deep bath comprising a chlorid of sulfur in contact with molten sulfur, to effect an exothermic reaction in said bath, and regulating the temperature of said bath and of the gaseous reaction products emerging therefrom, to cause the sulfur bearing constituent of said products to consist substantially solely of sulfur monochlorid.

1,341,424. TYPEWRITING-MACHINE. HUBERT K. HENRY, Detroit, Mich., assignor to Rex Typewriter Company, Chicago, Ill., a Corporation of Illinois. Original application filed Feb. 4, 1915, Serial No. 6,127. Divided and this application filed Jan. 18, 1918. Serial No. 212,443. 6 Claims. (Cl. 197—22.)

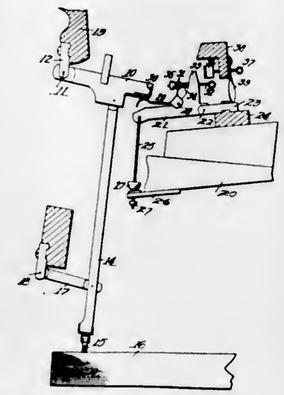


1. In a front-strike typewriter, the combination with the frame, of a type-bar segment mounted in said frame, type-bars pivoted on said segment and normally extending forwardly therefrom in horizontal position, key levers for operating said type-bars and a rest for the forward ends of said type-bars comprising a strip of flexible material fixed at its ends to said frame and a segmental, stiff backing secured to said strip and solely supported thereby, substantially as described.

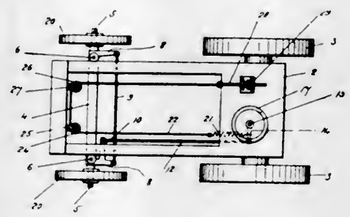
1,341,425. PLAYER-PIANO MECHANISM. JOSEPH P. HULDER, New York, N. Y., assignor to Auto Pneumatic Action Company, a Corporation of New York. Filed Aug. 28, 1918. Serial No. 251,801. 5 Claims. (Cl. 84—233.)

1. In a player piano having a striker pneumatic and a wippen, connecting devices between said pneumatic and said wippen comprising an arm movably mounted on a fixed

support, a connection between said arm and said pneumatic, a resilient member mounted on said arm and effective to yieldingly engage said wippen, and means to adjust said member relative to said arm.

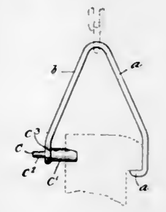


1,341,426. STEERING ATTACHMENT FOR TRACTORS. FORD M. HUFNI, St. Joe, Ind. Filed Oct. 30, 1919. Serial No. 334,448. 2 Claims. (Cl. 280—87.)



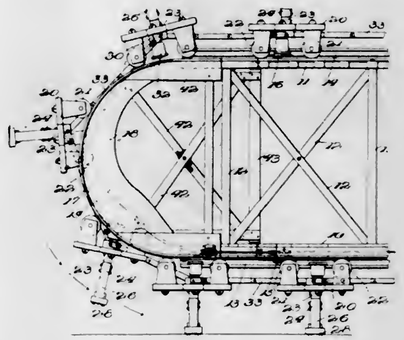
1. The combination, with a tractor provided with steering ground wheels, a steering shaft provided with an arm, and means for connecting the said arm operatively with the ground wheels; of a tension adjusting device arranged to one side of the steering shaft, a looped flexible connection provided with a spring and extending between the said arm and the tension adjusting device, and means for slidably supporting the middle and looped portion of the flexible connection.

1,341,427. HOISTING-HOOK. NORRIS C. INGALLS, Newburyport, Mass. Filed Jan. 2, 1920. Serial No. 348,768. 2 Claims. (Cl. 294—78.)



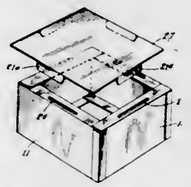
1. A lifting hook for automobile cylinders comprising a pair of rigidly connected arms disposed approximately in the same plane and arranged to depend from their intermediate connecting portion, one of said arms having a toe at its end arranged to extend toward the other arm and the latter arm having a hook at its end disposed in a plane transverse to the plane of said arms and a rigid pin having one end portion thereof adapted to be inserted in an aperture in the cylinder and the opposite end portion to be held in said hook.

1,341,428. TRACTOR. CHARLES KNOTT, New Madrid, Mo. Filed Dec. 5, 1917. Serial No. 205,644. 8 Claims. (Cl. 305—10.)



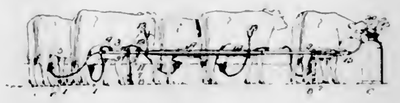
1. In a tractor, a body having a frame adapted to swing, and flexible rails, a plurality of trucks having ties constituting tread surfaces, said trucks having supports including pulleys movable over said frame and body and having rollers contacting with said flexible rails.

1,341,429. COLLAPSIBLE BOX. CHARLES W. LEWIS, New York, N. Y. Filed Mar. 22, 1916. Serial No. 85,761. 2 Claims. (Cl. 229—45.)



1. A collapsible box formed in two portions of corrugated paper board, one of said portions comprising a side and ends, flaps extending from the free edges of the side formed with slots adjacent to their junction with the side; the other of said portions comprising a side joined to the extremities of said ends and two lids, each provided with a tongue having tapering edges terminating in abrupt shoulders at its base adapted to be forced into an adjacent slot.

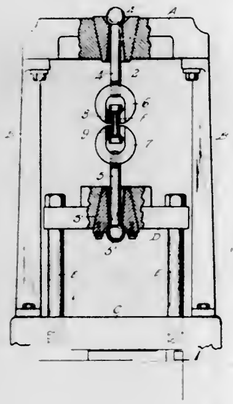
1,341,430. PORTABLE COW-MILKER. WILLIAM M. MEHRING, Keymar, Md. Filed Nov. 25, 1914. Serial No. 873,939. (17 Claims. (Cl. 31—99.)



1. A portable cow-milker comprising a one-piece straight portable main pipe, means for supporting the pipe, a receptacle, flexible hose extending from the pipe to the receptacle, teat-cups, and hose extending from the latter to the main pipe.

17. A portable cow-milker comprising a portable pipe, hose extensions carrying teat cups, and means carried by the portable pipe upon which said teat cups are adapted to rest.

1,341,431. GRIP FOR TEST-PIECES. JAMES G. MORROW, Hamilton, Ontario, Canada. Filed Nov. 4, 1919. Serial No. 335,700. 3 Claims. (Cl. 73—51.)



1. In a device of the class described, the combination with a stationary cross head and a movable cross head, taper corded wedges occupying corresponding slots in said cross heads, pins extending through the taper cores of the wedges and provided at one end with a ball occupying sockets therein concentric with the taper cores, ring grips tapped through from their circumferential surfaces and threaded on the free ends of said pins, said ring grips having grooves extending from their flat surfaces for the reception of the shank portion of a test piece, substantially as described.

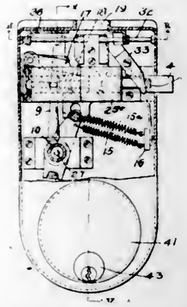
1,341,432. RECLAIMED AXLE. ALBERT C. MURPHY, New York, N. Y. Filed Aug. 4, 1917. Serial No. 184,503. 4 Claims. (Cl. 295—36.)



4. As an improved article of manufacture, a worn axle having its bearing ends expanded to normal size and the metal from the center portions of the axle ends displaced to provide the metal required, and solid plugs tightly fitting the spaces in the ends of the axle provided by the displacement of the metal, said plugs welded in position.

1,341,433. COIN-CONTROLLED LOCK. WILSON R. NECKERMAN, Pittsburgh, Pa. Filed Aug. 19, 1919. Serial No. 318,597. 5 Claims. (Cl. 194—59.)

3. A coin controlled lock including in combination, a locking bolt, a rotatable knob shaft, a bolt-withdrawing member movable by said shaft and adapted to engage said bolt after an initial movement of the shaft, a locking pawl adapted to engage said member, and means for guiding and lodging a coin between said member and pawl whereby the initial turning of said shaft will swing said pawl so as to permit the further turning of the shaft to move said



member to withdraw the locking bolt, a register, and means operable solely by the rotation of said shaft for advancing said register.

1,341,434. WINDOW-WEATHERPROOFING. ROBERT NORRIS, Wytheville, Va. Filed Sept. 19, 1919. Serial No. 324,781. 18 Claims. (Cl. 20—42.)

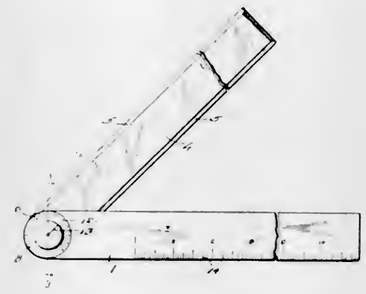


1. In a window, a frame having a transverse beveled inner surface across its top portion, sashes slidably mounted in the frame, the upper sash having a beveled outer surface formed across its top rail, the meeting rail of each sash being oppositely beveled at their contact surfaces, the bottom portion of the frame having a plurality of bevels formed on its outer surface, and a plurality of bevels formed on the inner surface of the bottom rail of the lower sash adapted to contact with the bevels on said frame, a parting strip composed of two sections locked together at their meeting ends, each section having a longitudinal tongue formed on its reverse side face adapted to engage with grooves formed in the upright side rail of each sash, said grooves and tongues terminating near the top and bottom portion of each sash, whereby a weatherproof window is formed when the sashes are properly locked in their closed position.

1,341,435. BEVEL-SQUARE FOR SHIPBUILDING. KARL O. OLSEN, St. Helens, Oreg. Filed Oct. 1, 1918. Serial No. 256,396. 2 Claims. (Cl. 33—115.)

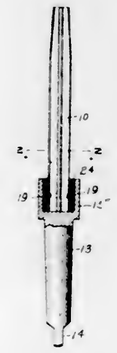
1. A bevel square for shipbuilders adapted to instantly indicate angles at which the instrument is set, comprising integral arms having a slot extending substantially the entire length between the arms, the arms having suitable graduations, an annular raised portion at the end of one of the said arms and integral therewith said raised portion having opposed annular beveled faces and

having marks designating ship's degrees on its outer annular face, a third arm pivotally attached to the two first mentioned arms and adapted to be moved into the slot between said spaced arms, and a pivot member bearing an indicator line on its face said line being disposed in a direction parallel to the single third arm, the pivot



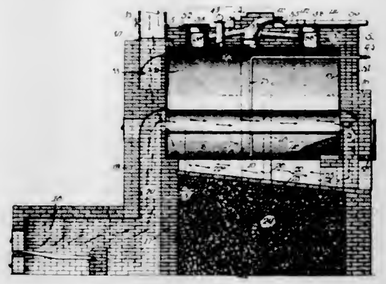
member having a slanting face bearing against the corresponding face of the annular raised portion above described, and means for adjustably attaching the respective arms and pivot member, whereby to cause the pivot member to rotate in unison with the single third arm, substantially as shown and described.

1,341,436. METHOD OF MAKING REAMERS. OSCAR OTTERSON, Butler, Pa. Filed May 23, 1919. Serial No. 299,163. 5 Claims. (Cl. 76—101.)



1. The method of making a tool of the character described, consisting in forming a tool bit with longitudinal grooves, forming a shank member, drilling one or more small holes into the end of the shank member eccentric to the axis thereof, drilling a large hole axially into said shank member and intercepting the small holes, whereby a socket is formed provided with longitudinal grooves in its walls, inserting the end of the drill bit into said socket, and pouring molten metal into said socket around the bit and thereby securing the bit in said socket.

1,341,437. METHOD OF DISTILLATION. EDWARD E. PERSHALL, St. Louis, Mo. Filed Feb. 20, 1918. Serial No. 218,247. 9 Claims. (Cl. 196—27.)



2. The method of distilling liquid hydrocarbon material to substantially dry coke which includes heating the mass substantially uniformly throughout, and agitating the mass by currents of live steam from a time prior to the formation of coke until the formation of the coke.

1,341,438. CABLE-CLAMP. WILLIAM W. POPE, Portland, Oreg. Filed June 13, 1919. Serial No. 304,057. 3 Claims. (Cl. 24—126.)

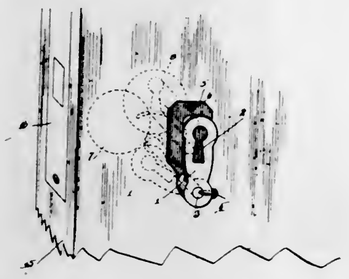


3. A clamp comprising a socket and a tapering wedge, each made with a companion half groove forming a cavity for receiving a cable end and constituting clamping surfaces for the latter; said clamping surfaces approaching each other from the top downward thereby gradually diminishing the diameter of said grooves and assuring a firm grip of the cable-end by said clamping surfaces and along the whole length thereof notwithstanding any stretch of the cable in said grooves, and said socket and wedge being adapted to cause the proper seating of the latter in the socket for bringing said companion half grooves into registration.

1,341,439. GUARD FOR KEYHOLES. JOHN E. POWERS, Pike, N. Y. Filed Feb. 19, 1919. Serial No. 278,066. 1 Claim. (Cl. 70—8.)

In a guard for a keyhole, the combination of a rod mounted to rotate parallel to the keyhole, a locking plate mounted on one end of the said rod, a guard disk mounted on the other end of said rod, said guard disk being adapted to be swung in front of one end of the keyhole on the swinging of said locking plate in front of the other end of the keyhole, said locking plate having an opening

therein, a key adapted to pass through the opening in said locking plate and into the keyhole to hold said locking plate and said guard disk from swinging away from each end of the keyhole, a casing surrounding said guard disk, said casing having an opening in the front thereof and in



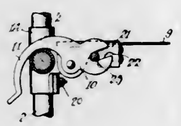
line with the keyhole, a guide slot in said casing, a pin on said guard disk to engage said guide slot and stop said guard disk in a predetermined position when swinging away from the keyhole, said guard and its casing being mounted on the outside of the door.

1,341,440. BELT-SHIFTER. GEORGE A. REEVE, Middletown, Ohio. Filed July 16, 1919. Serial No. 311,146. 10 Claims. (Cl. 64—4.)



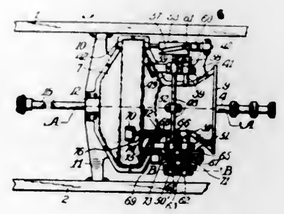
1. In a belt shifter, a shifter bar having a swiveled and a swinging movement, and belt engaging means on said bar, one of said means to operate the belt during a swiveled movement and the other during a swinging movement of the said bar.

1,341,441. CAMPING OUTFIT. ADOLPH C. SAGEL, Chicago, Ill., assignor, by mesne assignments, to Samuel A. Russell, River Forest, Ill. Filed June 10, 1916, Serial No. 102,824. Renewed Oct. 9, 1919. Serial No. 329,645. 3 Claims. (Cl. 5—67.)



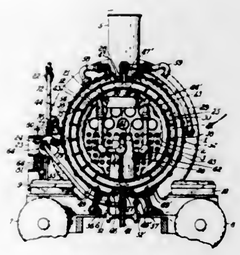
1. The combination with a rigid bed frame and a fabric secured to one end thereof, of a stud protruding from one of the side reaches of the frame near the other end thereof, an end strip comprising a stiff vertical portion fastened to the free end of the fabric, and a fabric stretching lever pivoted to said vertical portion and formed with a jaw to receive the stud and with a handle which rests upon the end reach of the bed frame to limit pivotal movement of the lever, said stiff vertical portion resting on the stud in the tensed position of the fabric.

1,341,442. TRANSMISSION AND CONTROLLING GEARING. ELLIS T. SILVIUS, Indianapolis, Ind. Filed Aug. 30, 1916. Serial No. 117,804. 22 Claims. (Cl. 74—34.)



1. Transmission and controlling gearing including reversing motion-transmission gearing, two series of movable means for controlling the motion-transmission gearing, a position-holding primary controller movably supported and having graduating operating and controlling connections with the two series of movable means to control the direction of motion transmitted, and an operating device adapted to move and set the primary controller to position and provided with a foot-receiving top.

1,341,443. MEANS FOR HEATING BOILER FEED-WATER. BURR R. SKINNER, Aberdeen, S. D. Filed June 8, 1918. Serial No. 238,976. 23 Claims. (Cl. 60—91.)

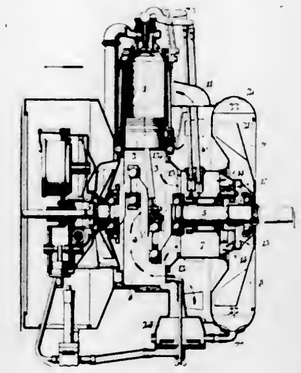


1. A steam-boiler provided with a smoke-box having a heating boiler thereon comprising a continuous water-chamber, and two separate reversely arranged steam-chambers each extending from the lower portion to and terminating at the upper portion of the outside of the water-chamber.

1,341,444. AIR-COOLING MECHANISM FOR INTERNAL-COMBUSTION ENGINES FOR FLIGHT-MOTORS. JOHN W. SMITH, Philadelphia, Pa. Filed Sept. 12, 1916. Serial No. 119,614. 5 Claims. (Cl. 123—171.)

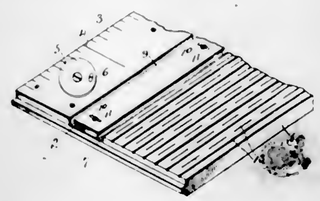
1. An air cooling system for internal combustion flight motors comprising a crank casing, an air chamber in

proximity thereto, openings around the periphery of said air chamber so arranged and positioned that the motion



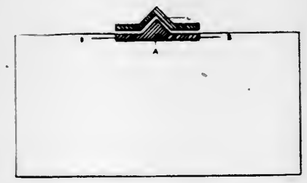
of the machine creates air pressure within said air chamber, and connections whereby this air is distributed to the crank casing for the purpose of cooling the parts therein.

1,341,445. PAPER-HANGER'S CUTTING-BOARD. ROBERT B. STANLEY, Kansas City, Mo. Filed Dec. 23, 1919. Serial No. 346,872. 5 Claims. (Cl. 164—78.)



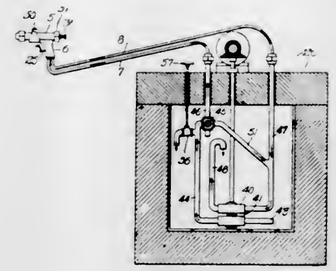
1. A paper-hanger's cutting board comprising a base member having in one side a longitudinal groove, a longitudinal plate secured to said side and having its opposite longitudinal edges respectively adjacent to opposite sides and spaced apart from said sides of said groove, said plate being disposed above and spaced apart from the bottom of said groove, and means for spacing said cutting plate.

1,341,446. JOINT-SUPPORT FOR LIGHT RAILWAYS. HERBERT L. STILLMAN, Westerly, R. I. Filed July 15, 1919. Serial No. 311,047. 1 Claim. (Cl. 238—178.)



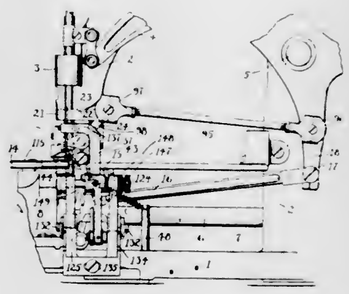
The improved rail joint support herein described, having a triangular shaped body with laterally extending side wings combined with an angular topped rail with lateral side wings as specified.

1,341,447. LIQUID-DISTRIBUTING SYSTEM. WILLIAM A. TIMM, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 29, 1918. Serial No. 247,349. 5 Claims. (Cl. 226—125.)



1. In a liquid distributing system of the class described, a liquid supply tank, a discharge nozzle provided with a discharge opening and with an air inlet, supply and return pipes connecting said tank with said nozzle, movable valve mechanism in said nozzle provided with a plurality of passages adapted in one position of said valve to connect said supply pipe with the discharge opening of said nozzle and the return pipe with the air opening of said nozzle, and pumping mechanism in said tank adapted in its operation to force liquid through said supply pipe and draw air through said return pipe.

1,341,448. TRIPLE-SEAM SEWING-MACHINE. ALBERT H. WEIS, Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation, a Corporation of Delaware. Filed July 30, 1918. Serial No. 247,383. 104 Claims. (Cl. 112—2.)

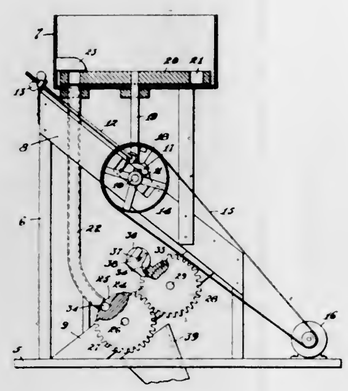


1. In a sewing machine, the combination of stitch forming mechanism, a presser foot, a folder supported independently of said presser foot for folding over an edge of the work, a trimmer partly supported by said presser foot for trimming the folded over edge of the fabric after it leaves the folder, and feeding mechanism for engaging the folded over edge and feeding the same through the folder.

1,341,449. BRANDING-MACHINE. HARRIS C. WILKINSON, Los Angeles, Calif. Filed May 31, 1919. Serial No. 300,828. 2 Claims. (Cl. 101—37.)

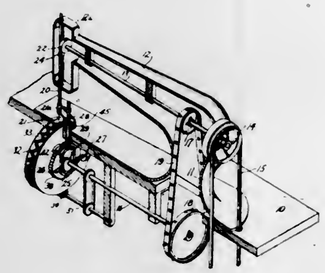
1. In a machine for branding spherical articles, a hopper adapted to contain spherical articles, a conduit

leading downwardly from said hopper, a disk in said hopper having openings therethrough adapted to receive the spherical articles and arranged to register with the open upper end of said conduit, a guard in said hopper extending over the disk and close thereto opposite the open upper end of the conduit, a rotary wheel located with its



periphery adjacent to the lower end of the conduit and having depressions adapted to receive the spherical articles delivered from the conduit, an imprinting roller, adjacent said wheel, printing characters on said roller arranged to imprint on articles carried by the wheel, and means for driving said disk, wheel and roller in unison.

1,341,450. FUR-CUTTING MACHINE. MARTIN ZAWISTOWSKI, Brooklyn, N. Y. Filed July 27, 1918. Serial No. 246,957. 16 Claims. (Cl. 164—49.)



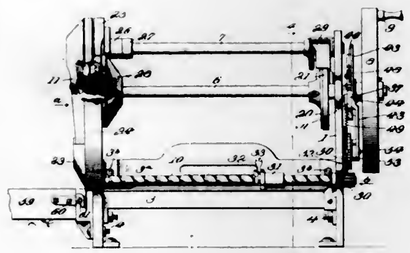
8. A machine for forming a continuous zig-zag cut in sheet material including a reciprocatory oscillatory cutter, and means for feeding a sheet of material there beneath to such distances between successive cutting strokes that each cut at its ends will meet the ends of adjacent cuts at an angle to form a series of serrations along the edge of the sheet.

1,341,451. RUBBER GLOVE. JOHN BAPTISTE ABLER, Guelph, Ontario, Canada. Filed Feb. 10, 1920. Serial No. 357,741. 1 Claim. (Cl. 2—9.)



In a rubber glove, constricted portions formed intermediately of the length of the fingers or thumb adapted to tightly grip the fingers or thumb of the wearer.

1,341,452. COMBINED BREAD CUTTER AND STACKER. JOSIAH ANSTICE, Rochester, N. Y., assignor to Josiah Anstice & Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 14, 1919. Serial No. 330,602. 9 Claims. (Cl. 146—12.)

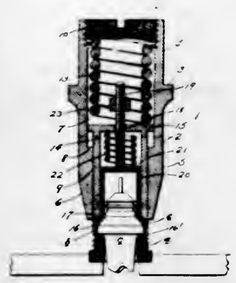


8. A slicer of the character described, comprising an operating shaft, a rock-shaft, a knife frame having one end directly connected with the rock shaft, a revolving knife carried by the other and free end of the knife frame, a gearing connection between the drive shaft and the revolving knife, and a rocking connection between the drive-shaft and the rock-shaft for rocking the rock-shaft and therewith the knife frame.

1,341,453. DIE OR IMPLEMENT USED IN THE MANUFACTURE OF SPARK-PLUGS. ERNEST ASCHENBACH, Washington, D. C. Filed Mar. 3, 1919. Serial No. 280,361. 2 Claims. (Cl. 29—33.)

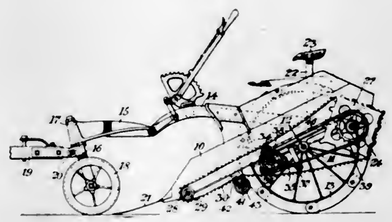
1. A die for the purpose described, including an outer thimble, an inner thimble operable within the outer thimble, and having a deep chamber therein to loosely receive the inner end of a spark plug insulation, the lower edge of the inner thimble being shaped for and adapted to engage a gasket on a spark plug insulator within said chamber in the inner thimble, means for resiliently mounting said inner thimble to impart resilient pressure

on said gasket, the outer thimble having an internal shoulder adjacent the said edge of the said inner thimble



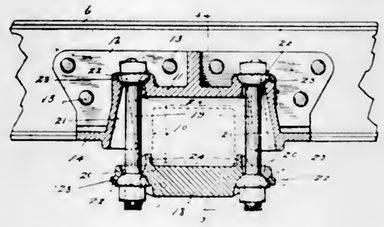
for engagement with the edge of the tubular portion of a spark plug gland to crimp said edge inwardly and over said gasket.

1,341,454. POTATO-DIGGER. LEWIS AUGUSTUS ASPINWALL, Jackson, Mich., assignor to Aspinwall Mfg. Co., a Corporation of Michigan. Filed Feb. 4, 1919. Serial No. 274,875. 7 Claims. (Cl. 130—32.)



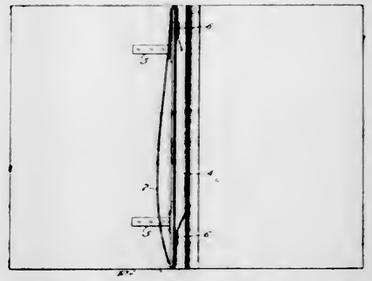
1. In a potato digger, a frame, a conveyer, conveyer rollers mounted at the front of the digger, and rectangular conveyer sprockets mounted at the rear of the digger and each having a plurality of straight edges, with the length of each edge being a multiple of the length of each link in the conveyer so that the conveyer is simultaneously supported, driven, and agitated by the said rectangular sprockets in the revolution of the same.

1,341,455. DRAW-BAR BUFFER. JOHN C. BARBER, Chicago, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a Corporation of New Jersey. Filed May 7, 1919. Serial No. 295,392. 1 Claim. (Cl. 213—42.)



A draw-bar buffer having a body that is yoke-like in cross section and embraces a coupler shank, a brackte underlying said body and supporting the coupler shank, and a pair of rods having spherical ends seated in correspondingly formed seats in the buffer and bracket and supporting said bracket from the buffer for universal swinging movement, said body being provided with recesses into which the rods may alternately move under extreme lateral movement of the coupler shank to expose said body to the coupler shank as a stop.

1,341,456. LOOSE-LEAF BINDER. CHARLES ERNEST BECK, Baltimore, Md. Filed Apr. 5, 1918, Serial No. 226,885. Renewed Nov. 5, 1919. Serial No. 335,945. 3 Claims. (Cl. 129—39.)



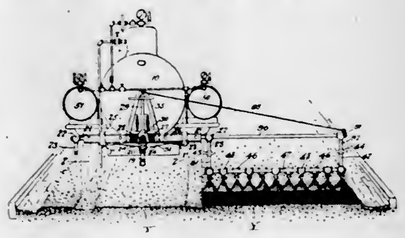
2. A loose-leaf binder comprising a pair of covers connected by a flexible back piece, one of said covers having a rigid extension beyond its point of connection with the back piece, said extension forming a binding strip and having cord-attaching means thereon.

1,341,457. DEVICE FOR QUICKLY TRACING CIRCLES OF GIVEN DIAMETERS. NICOLAS BASILE COSTOVICI, Lausanne, Switzerland. Filed Oct. 27, 1917. Serial No. 198,747. 1 Claim. (Cl. 33—27.)



A device for tracing circles of a given diameter comprising a ruler bearing a scale on one of its side edges and having holes along its longitudinal center-line for the insertion of a drawing instrument, a center point adapted to enter one of said holes, and a bar of greater length than the said ruler and having a downwardly extended edge adapted to rest on a drawing surface and also a freely projecting end, a sleeve adjustable therein forming a support for said center point, the said bar being shaped so as to receive the said ruler when not in use.

1,341,458. METHOD OF TREATING ROADWAYS. SAM EVERETT FINLEY, Atlanta, Ga. Filed Oct. 29, 1919. Serial No. 334,316. 4 Claims. (Cl. 94—23.)



1. The method of treating roadways which comprises applying a uniform coating of binding material to one

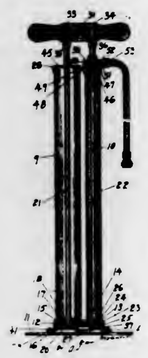
longitudinal section thereof by means of a traveling vehicle traversing an adjacent section, applying a top dressing to the coated section, restoring the surface of the traversed section where the same has been marred by the vehicle or otherwise, and applying a similar coating of binding material to the restored section by said vehicle traversing the previously treated section.

1,341,459. TOOL FOR TWISTING WIRE TIES. HENRY B. FOULDER, Brooklyn, N. Y., assignor to J. P. Curry M'f'g Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 29, 1919. Serial No. 285,963. 4 Claims. (Cl. 140—119.)



2. In a tool for twisting wire ties, the combination of a handle member having an axial bore, means removably secured to said member adjacent the forward end thereof and carrying anti-friction balls arranged to project into said bore, and a spindle having a twisting head and a shank adapted to slidably engage in said bore, said shank having a spiral groove formed on the forward portion thereof in which said balls are adapted to rotatably engage, said shank having a cylindrical portion to the rear of said spiral groove, and anti-friction bearing means for said cylindrical portion.

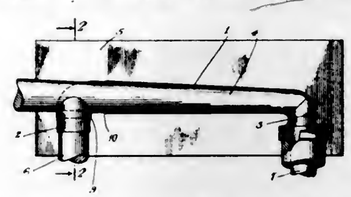
1,341,460. AIR-PUMP. ERWIN GRIESBAUM, St. Louis, Mo. Filed Aug. 13, 1919. Serial No. 317,258. 2 Claims. (Cl. 103—65.)



1. In combination with an air pump, a housing for the base thereof, same being stamped from a single piece of sheet metal; an extended annular flange formed upon said housing; air channels formed in said housing to lead air in and out of the pump proper; and a foot portion likewise stamped from a single piece of sheet metal, and having outstanding flanges adapted to be turned up over the extended annular flange on the housing, to lock the two together.

1,341,461. CASTING PROCESS. ALBERT G. GRUSS and PHILIP GEYER, Brooklyn, N. Y., assignors to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 29, 1919. Serial No. 341,547. 5 Claims. (Cl. 22—203.)

1. A method of casting a tubular object, consisting in casting such an object complete except that an opening through a wall of the object is left and that the wall portion adjacent the opening is less than its final thickness,

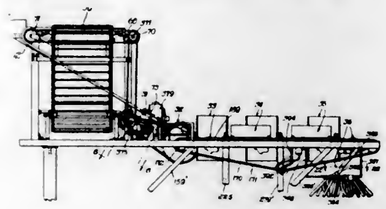


and then casting a closure for said opening in such manner that the metal thereof will cover the wall portion of reduced thickness to complete the structure of the object.

1,341,462. METHOD OF PRODUCING AND PURIFYING SULFURIC ACID. PAUL HAESELER, New York, N. Y., assignor to The Liberty Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 25, 1918. Serial No. 255,567. 33 Claims. (Cl. 23—1.)

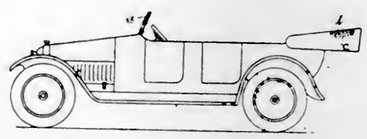
1. A method of producing sulfuric acid which comprises causing a sulfur-dioxid-containing substance to interact with a reducible oxygen-containing compound of selenium or the like substantially without access of free oxygen.

1,341,463. TESTING SYSTEM, PROCESS, AND MACHINE. ALLEN B. HAZARD, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 13, 1917. Serial No. 142,177. 64 Claims. (Cl. 83—92.)



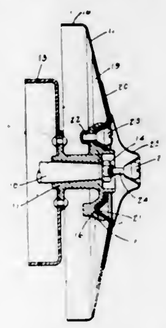
1. A testing machine comprising, in combination, an article guiding mechanism, a test plate, a plurality of sets of contact springs associated with said test plate, an article propelling means, electro-magnetically operated means to determine the path of travel of said article, and an operating circuit for said electro-magnetically controlled means adapted to be completed through said article and one of said sets of contact springs depending upon the position of the article in the propelling means.

1,341,464. VEHICLE-WINDSHIELD. LOUIS A. HILL, Washington, D. C. Filed Jan. 8, 1917, Serial No. 141,343. Renewed Mar. 16, 1920. Serial No. 366,441. 9 Claims. (Cl. 296—84.)



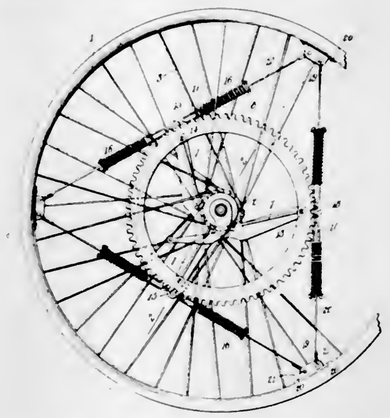
1. The combination with a vehicle provided with a folding top, of a wind shield composed of an upper transparent section and a lower transparent section, the lower section being mounted on the vehicle proper and the upper section being permanently attached to the front end of the top, means being provided for detachably attaching the upper section to the lower section when the top is raised, whereby when the top is put down the upper section of the wind shield will be carried back with it to the rear of the vehicle.

1,341,465. DISK WHEEL AND HUB FOR VEHICLES. ROSCOE C. HOFFMAN, Indianapolis, Ind. Filed Oct. 11, 1919. Serial No. 330,063. 5 Claims. (Cl. 21—31.)



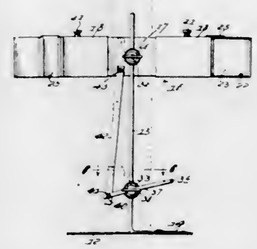
5. A disk wheel hub construction including a hub member, an annular depression about the outer end of the hub member, an annular depression in said disk wheel adapted to engage in said hub depression forming a radial bearing, a plurality of circular depressions having tapered shoulders about their peripheries, positioned within the annular groove of said wheel, and a plurality of locking bolts and nuts adapted to project through said last mentioned depressions and said hub member, so that the tapered shoulders thereof will fit snugly within the tapered shoulders of said depressions for clamping said disk wheel and hub together and provide bearing and locking surfaces for transmitting annular movement of said hub to said wheel.

1,341,466. TRACTION-WHEEL. LOUIS JAMES JOHNSON, South Bend, Ind. Filed Apr. 30, 1919. Serial No. 293,859. 6 Claims. (Cl. 74—29.)



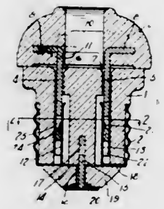
1. In a traction wheel, the combination of a rotatable hub, a traction wheel rim, spokes securing said rim to said hub, a spider rotatably mounted on said hub, and having outwardly-extending arms, an annular transmission member secured to said spider arms, and spring connections extending in opposite directions from said arms to points of attachment with said rim.

1,341,467. MOTION-PICTURE-PROJECTING MACHINE. WILLIAM H. KELLY, Sparks, Nev. Filed Aug. 8, 1918. Serial No. 248,898. 6 Claims. (88—24.)



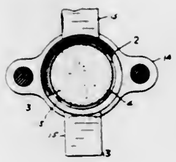
1. The combination with the lamp house, a main objective lens of a motion picture projecting machine, of an auxiliary lens, a light reflecting tube positioned between the lamp box and the auxiliary lens, common means for pivotally and slidably supporting the tube for vertical movement, and means for swinging the tube into a horizontal operative position or a vertical inactive position.

1,341,468. SEPARABLE ATTACHMENT-PLUG. JOHN J. KENNEY, Pittsburgh, Pa., assignor to Best Electric Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 23, 1915. Serial No. 41,585. 3 Claims. (Cl. 173—343.)



2. An attachment plug, comprising a cap member and a body member, blade terminals carried by the cap member having indentations therein, and contacts housed in coöperating recesses in the base, said contacts being provided with abrupt rearward projections adapted to engage the indentations of the terminal blades to normally prevent separation of the cap and body members except by a relative rotative movement about the axis of the plug.

1,341,469. SECONDARY OR STORAGE MULTIVOLT BATTERY. WILLIAM ERNEST KERSHAW, Philadelphia, Pa. Filed Aug. 23, 1918. Serial No. 251,045. 5 Claims. (Cl. 204—29.)



5. In a secondary or storage multi-volt battery the combination of element supports having facial ribs spaced

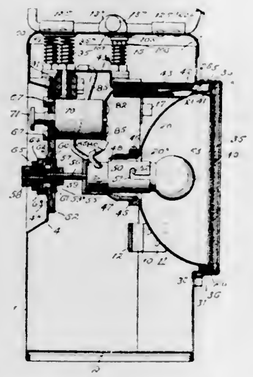
from the edges and having marginal portions outside of the ribs, active material or material adapted to become active confined by the ribs, spacing and insulating rings receiving and fitting the ribs of adjacent supports, absorbent electrolyte carriers arranged within the rings, and an acid resisting coating applied to the marginal portions of the supports outside of the ribs.

1,341,470. FRICTION-FACING ON TRANSMISSION-BELTING. ROBERT S. KINNAIRD, Indianapolis, Ind., assignor to Hide Leather & Belting Company, Indianapolis, Ind., a Corporation. Filed Mar. 1, 1919. Serial No. 280,117. 1 Claim. (Cl. 74—63.)



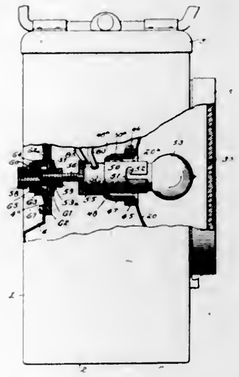
A friction belt including a leather body, having the grain side thereof buffed, and a cork facing cemented to the grain side of said leather body for forming the friction surface of said belt.

1,341,471. PORTABLE ELECTRIC HAND-LANTERN. JAMES W. KNOBLOCK, Elmira, N. Y., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y., a Corporation of New York. Filed June 19, 1917. Serial No. 175,626. 11 Claims. (Cl. 240—8.5.)



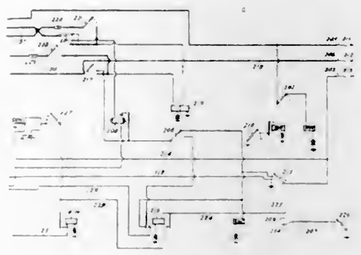
1. In a portable electric hand lantern, the combination of a casing having spaced cell pockets arranged at opposite sides the back wall of said casing having a central inwardly depressed portion forming an inner spacing member between the cell pockets and an outer recess for hand operated parts, battery cells in said pockets, a reflector mounted in the front wall of the casing, a light bulb mounted within the reflector, and a switch mounted upon the back wall of the casing with its operating head presented in the recess of said depressed portion.

1,341,472. FOCUSING DEVICE FOR PROJECTORS. JAMES W. KNOBLOCK, New York, N. Y., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y., a Corporation of New York. Original application filed June 19, 1917, Serial No. 175,626. Divided and this application filed Mar. 22, 1918. Serial No. 223,963. 2 Claims. (Cl. 240—44.)



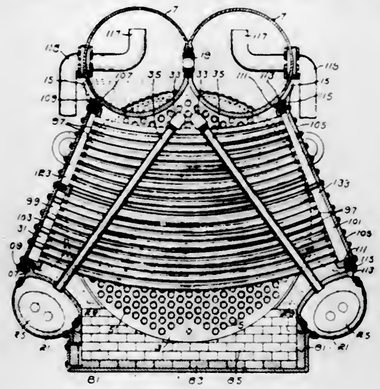
1. In a device of the character described, the combination of a suitable casing, a reflector secured in the front wall of said casing, a collar secured to the rear of said reflector, a bulb supporting socket adjustably mounted in said collar, a rotatable threaded sleeve projecting through an enlarged opening in the rear wall of said casing, and adjustable transversely therein, a threaded stem screwed into said sleeve and connected with said bulb supporting socket, means for adjusting said sleeve at an angle to the axis of the reflector, and means for rotating said sleeve to adjust said stem therein.

1,341,473. MACHINE-SWITCHING TELEPHONE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,496. 12 Claims. (Cl. 179—27.)



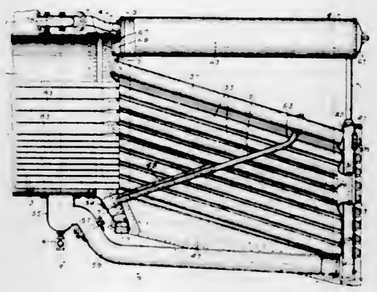
1. In a telephone system, telephone lines, trunk lines, selective switches for interconnecting said lines and for connecting said telephone lines and said trunk lines, means included in said switches for automatically differentiating between connections established from a telephone line to a telephone line and from a telephone line to a trunk line, an arrangement controlled by said means for supplying talking current in the one case from battery-feed coils located at said selector switches and for excluding said battery-feed coils in the other case, positive means for causing said arrangement to be actuated when a connection is established between telephone lines, and a single relay for causing said arrangement to be actuated when a connection is established between a telephone line and a trunk line.

1,341,474. BOILER AND FIREBOX CONSTRUCTION. JAMES M. MCCLELLON, Everett, Mass. Filed Mar. 31, 1915. Serial No. 18,399. 9 Claims. (Cl. 122—99.)



1. In a locomotive boiler a water tube steam generator having upper and lower chambers, a feed water heater receiving gases from the generator and being free of direct communication with said upper chamber, and a superheater comprising transversely extending steam tubes suspended between the tubes of said generator and the gas intake end of said water heater.

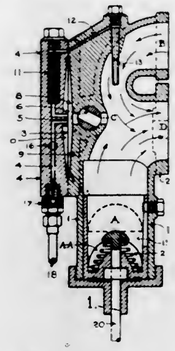
1,341,475. BOILER. JAMES M. MCCLELLON, Everett, Mass. Filed Apr. 6, 1915. Serial No. 19,571. 5 Claims. (Cl. 122—94.)



1. The combination of a barrel with a fire-box comprising side and crown tubes connected to close the sides and crown of the fire-box and communicating with said barrel, said tubes inclining downwardly and rearwardly therefrom, and steam drums located above the fire-box and communicating with said barrel and with the water spaces of the fire-box.

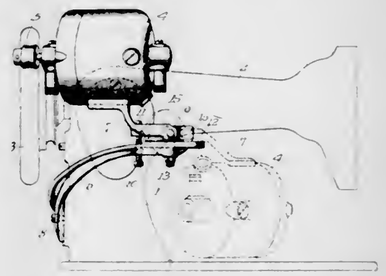
1,341,476. PROCESS OF VAPORIZING LIQUIDS AND APPARATUS USED IN CONNECTION THEREWITH. CHARLES DAVID MCCLINTOCK, El Paso, Tex.; Rio Grande Valley Bank & Trust Co., administrator of said Charles David McClintock, deceased, assignor to H. R. McClintock, El Paso, Tex., trustee, of six-tenths for himself and four-tenths for Mabel Buckingham McClintock and Aldyth McClintock. Filed Dec. 7, 1916. Serial No. 135,689. 4 Claims. (Cl. 123—131.)

1. In an apparatus of the character described, the combination with a mixing chamber having a primary air inlet of a second air inlet, means for manually controlling the second air inlet, a fuel nozzle mounted adjacent the first air inlet, a diaphragm controlled by a vacuum pull of an engine, a fuel conduit leading to said nozzle and having ports controlled by said diaphragm and a valve member



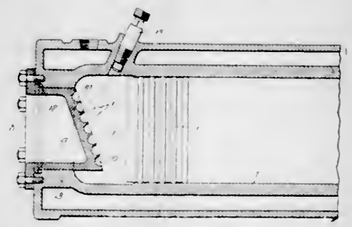
for shutting off the diaphragm from the action of said vacuum pull of the engine, said valve member being manually controlled independently of the air valve control.

1,341,477. MOTOR-SUPPORT. GUSTAVE C. MARX, Elizabeth, N. J., assignor to Diehl Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 3, 1916. Serial No. 88,566. 15 Claims. (Cl. 74—26.)



1. The combination with a sewing machine of a motor, a bracket for supporting the motor, said bracket adapted to be attached to the sewing machine frame, a motor supporting arm mounted on said bracket so as to be movable in two planes, and means for preventing movement of said arm in one plane while it is being moved in the other.

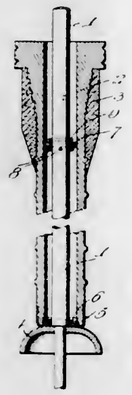
1,341,478. INTERNAL-COMBUSTION ENGINE. WILBER O PLATT and JOHN REID, Oil City, Pa., assignors to Joseph Reid Gas Engine Company, Oil City, Pa., a Joint-Stock Company. Filed Feb. 12, 1919. Serial No. 276,597. 11 Claims. (Cl. 123—30.)



1. In an internal combustion engine, the combination with a cylinder having a cylinder head provided with

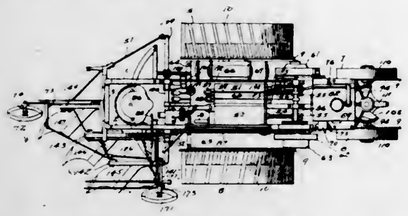
grooves or channels extending inwardly and downwardly with respect to the axis of said cylinder, a piston in said cylinder, and means for delivering fuel into said grooves or channels.

1,341,479. SPINDLE. CHARLES A. PROULX, Woonsocket, R. I. Filed Dec. 4, 1919. Serial No. 342,328. 3 Claims. (Cl. 242—130.)



1. In a device for the purpose set forth, the combination of a stationary spindle, a bobbin rotatable about the spindle and having an internal bore of slightly larger diameter than the spindle, a base secured to the spindle, a washer resting on the base and between the spindle and internal bore of the bobbin, anti-friction means below the washer and a second washer retained on the spindle intermediate the first-named washer and the upper end of the spindle and means for holding the second washer in its proper position; said washers being formed in such a manner as to minimize the amount of friction between the bobbin and spindle.

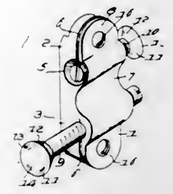
1,341,480. FARM-TRACTOR. PURLING RISEBOROUGH, Monroe Center, Ill. Filed March 10, 1917. Serial No. 153,886. 2 Claims. (Cl. 280—97.)



1. In a tractor, the combination with a car frame and a rotatable post mounted on said frame, of a rotatable sleeve surrounding part of said post, means to secure said sleeve to said post, a comparatively stationary sleeve surrounding the remaining part of said post and also surrounding part of said rotatable sleeve, means to rotate said rotatable post, and a pivotally and horizontally rockable wheel frame mounted on said rotatable post.

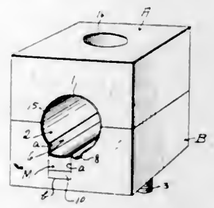
1,341,481. COMBINATION-GAGE. WELLINGTON SALT, Buffalo, N. Y. Filed Dec. 7, 1918. Serial No. 265,731. 1 Claim. (Cl. 33—44.)

A device of the character described consisting of a body formed with a guide and with spaced threaded bores and also formed with slits at its respective ends for communication with the bores and for providing resilient portions near the slit, screw bars adjustably mounted through the bores and formed with marking heads, and



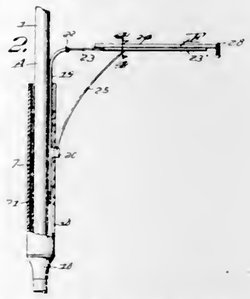
lock screws mounted in the respective ends of the body for adjusting the resilient portions to restrict the size of the bores and thereby clamp the bars against accidental movement.

1,341,482. CUTTING-TOOL. ALFRED RUSSELL SCOTT, Enid, Okla. Filed Apr. 12, 1919. Serial No. 289,507. 2 Claims. (Cl. 82—4.)



1. In a cutting tool, the combination with a body comprising a pair of separable members arranged one upon the other, the opposed faces of said members having registering semi-circular recesses extending thereacross to receive the work, the wall of the recess of one member at one side of its transverse center being provided with a channel extending longitudinally thereof, said wall of the recess at the opposite side of its transverse center being provided with a longitudinally disposed clearance channel semicircular in cross section, the first channel being rectangular in cross section, of a cutting tool rectangular in cross section adjustably mounted in the rectangular channel and provided with parallel cutting edges, said cutting tool being removably reversible in the rectangular channel, whereby either of its cutting edges may coincide with the longitudinal center of the semi-circular recess of said wall, and means for holding the two members in assembled relation.

1,341,483. COMFORT-FRAME. LOUISE SOPHIE SLOCUM, Brooksville, Fla. Filed Nov. 8, 1918. Serial No. 261,635. 3 Claims. (Cl. 5—41.)



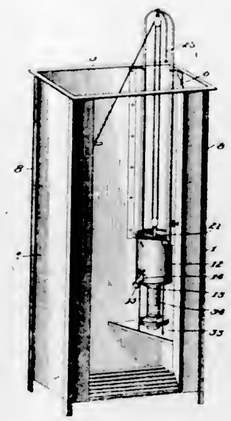
1. A device of the kind described comprising a frame embodying an upstanding rod member, a sleeve in surrounding relation to and loosely engaging the rod member, the sleeve being formed with a longitudinal slot, a bar member interposed between the sleeve and the rod member and provided at its lower end with a collar in surrounding relation to the rod member, a table top supported at the upper end of the bar member and to one side of the axis of the latter, and means carried by the bar member and projecting through the slot in the sleeve and engaging the latter at a point between the table top and the collar, whereby the collar is caused to effect a firm frictional engagement with the rod member to preclude too free movement of the sleeve and table top and attendant parts around the rod member as a pivot.

1,341,484. MULSH LAYER. HAROLD E. STARRATT, Olaa, Hawaii. Filed Jan. 6, 1919. Serial No. 269,824. Renewed Apr. 19, 1920. Serial No. 375,150. 1 Claim. (Cl. 242—68.)



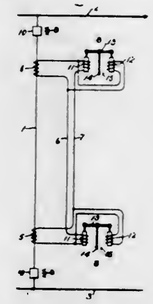
A mulsh layer consisting of a single piece of resilient metal bent to form a grip member, a handle member having two straight portions adapted to lie parallel to each other, a pair of oppositely extending arms at the end of said handle portion, jaw members adjustably mounted on the ends of said arms, bearing members carried by said jaw members, means for securing the jaw members in their adjusted positions on the arms, and a keeper adapted to engage the portions of the handle member to draw the bearing members into a predetermined relation to each other.

1,341,485. COMBINED PORTABLE SHOWER AND VAPOR BATH. GORDON G. STIMPSON, Birmingham, Ala., assignor to Frank H. Granade and Fred T. Stimpson, Birmingham, Ala. Filed Jan. 21, 1920. Serial No. 353,033. 11 Claims. (Cl. 4—26.)



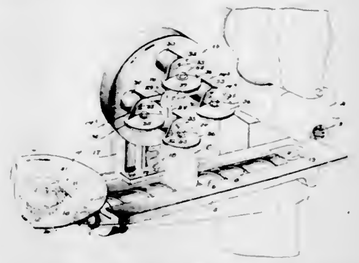
1. Bathing apparatus of the character described, comprising, in combination, a cabinet having a corner formed by two of its walls, a vertically adjustable water tank located in said corner, guiding means comprising plate members extending partly across said corner and U-shaped coöperating members carried by said tank for controlling the vertical movements of the tank, and means for vertical adjustment of the tank.

1,341,486. PROTECTIVE SYSTEM. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,355. 5 Claims. (Cl. 175—294.)



1. In a protective system for an electrical conductor, the combination with transformers at each end of said conductor having their secondaries connected in a common electrical circuit, and control devices at each end of said conductor each comprising two independent electro-responsive elements, one element predominating when the current flow through said transformers is substantially equal and in the same direction, the other element predominating when the current flow through said transformers is in opposite directions and when the current flow through said transformers is in the same direction but unequal.

1,341,487. PACKER FOR FILLED-CAN-CLOSING MACHINES. IVAR F. WARME and ROBERT A. BLOOD, Syracuse, N. Y., assignors to Continental Can Company, Incorporated, Syracuse, N. Y., a Corporation of New York. Filed July 18, 1916. Serial No. 109,970. 8 Claims. (Cl. 226—71.)

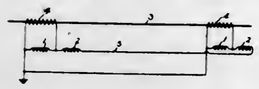


1. The combination with devices for feeding filled cans, of a packer mechanism for uniformly overflowing the filled cans during the travel thereof, said packer mechanism including a supporting bracket, a rotating support carried by said bracket, a series of pads mounted on said support and movable in a vertical plane, and means for rotating said support and for moving said pads as the support travels so as to maintain the pads in horizontal position.

1,341,488. PROTECTIVE DEVICE. EDMUND BASIL WEDMORE, Hendon, England, assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,012. 6 Claims. (Cl. 175—294.)

1. In a protective system for an electric feeder, the combination with a transformer connected at each end

of said feeder, of a pilot wire or wires connecting the secondaries of said transformers in an electric circuit, and control devices at each end of said feeder comprising



an operating coil in series with each transformer secondary, a restraining coil in an independent circuit in shunt to each secondary, and means having a condenser action in series with said restraining coil.

1,341,489. CAN-SEALING COMPOSITION. THEODORE CRAMP WESTER, Baltimore, Md. Filed Aug. 15, 1919. Serial No. 317,803. 13 Claims. (Cl. 106—8.)

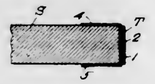
1. A can sealing composition comprising rubber dissolved in a volatile solvent, and china wood oil.

12. A can sealing composition composed of a non-fermentable material and containing a sterilizing germicide.

1,341,490. SEALING COMPOSITION. THEODORE CRAMP WESTER, Baltimore, Md. Filed Nov. 14, 1919. Serial No. 338,081. 13 Claims. (Cl. 106—8.)

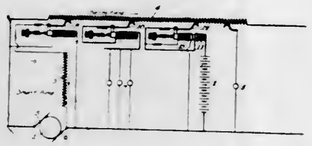
1. A plastic composition comprising a rubber solution, and gutta-slak.

1,341,491. PRICE-TAG HOLDER. HENRY W. BEHRENS, Chicago, Ill. Filed Sept. 3, 1918. Serial No. 252,460. 1 Claim. (Cl. 40—11.)



A tag holder comprising a metal plate having tongues extended rearwardly from its side edges to form support engaging clips, one of said tongues being flat and extended at right-angles to the plate and the other being bent out at a slight angle to enable the device to be readily secured to shelves of varying thickness, the front face of said plate having tag retaining means.

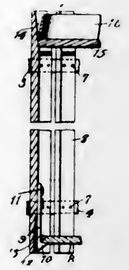
1,341,492. ELECTRIC MACHINE. PIERRE BOSSU, Paris, France. Filed Jan. 23, 1915. Serial No. 4,005. 7 Claims. (Cl. 171—223.)



1. An electric installation comprising a counter-compound dynamo, and a translating circuit, the shunt excitation winding of the dynamo and the translating circuit being connected at one of their terminals to one of the brushes of the dynamo, and the other terminals of the shunt winding and the translating circuit being adapted to be conected at different predetermined points to the circuit of the series winding.

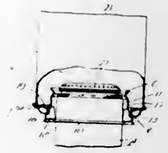
1,341,493. COLLAPSIBLE BARREL. CHANCY W. BOVEE, Stevensville, N. Y. Filed Aug. 9, 1916. Serial No. 113,926. 1 Claim. (Cl. 217—89.)

A barrel including a body formed of a plurality of staves, the ends of the staves being tapered outwardly, a barrel head having a beveled edge for frictionally engaging the tapered ends of the staves, and an annular inclined expansion ring adapted to engage the barrel head



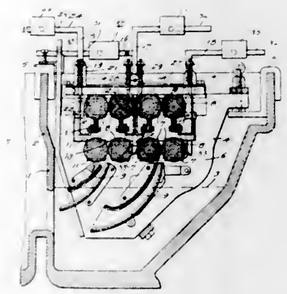
and having a relatively sharp outer edge at its largest diameter for bighting engagement with the tapered ends of the staves and disposed with its sides inclined away from the said tapered ends for the purpose set forth.

1,341,494. COMBINED AIR REGULATOR AND DEFLECTOR. JACOB CLOSS, St. Ansgar, Iowa. Filed Aug. 23, 1919. Serial No. 319,390. 3 Claims. (Cl. 158—94.)



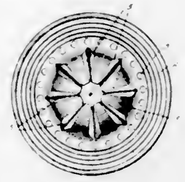
1. The combination with an oil burning cook stove having a burner and a chimney, the same provided with air inlet openings, of an attachment comprising a deflector in the chimney above the air openings for retarding the direct course of air admitted through the openings and deflecting said air into said chimney toward its side wall concentrically of the burner.

1,341,495. TINNING-MACHINE. ROBERT L. COVINGTON, Morgantown, W. Va. Filed July 15, 1919. Serial No. 311,059. 3 Claims. (Cl. 91—59.2.)



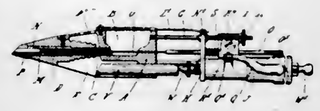
1. In a tinning machine, a frame, bearings slidably mounted in the frame, rolls carried by said bearings, pivoted levers arranged to engage the bearings, and weights adjustably carried by the levers whereby the pressure on said bearings can be regulated.

1,341,496. SQUEEZER. SAMUEL E. CREASEY, Sanford, Me. Filed Dec. 18, 1919. Serial No. 345,826. 2 Claims. (Cl. 100—49.)



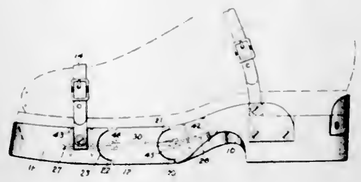
2. A squeezer of the character stated, comprising a cone-shaped longitudinally corrugated metal body portion having an open upper end with the corrugations extending to the opening and forming a relatively sharp notched cutting edge around the opening, and an annular trough at the lower end of the body.

1,341,497. HAND SOLDERING-TOOL. SAMUEL DAVIES, Eltham, England. Filed July 5, 1919. Serial No. 308,761. 3 Claims. (Cl. 158—25.)



2. In a hand soldering tool, a frame, a reservoir for receiving solder, means for fusing the solder and heating the bit, a swivel lid to said reservoir, an actuating arm on said lid, a catch on the frame to engage said arm, a tubular channel for receiving the melted solder, a valve-rod extending through said channel to the nose of the bit, and a valve formed at an intermediate point on the valve-rod, said valve being longitudinally channeled to provide a passage for the solder.

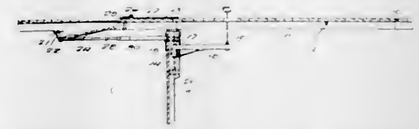
1,341,498. WOODEN SHOE OR SANDAL. PETER DEMARMELS, New York, N. Y., and ALBERT WINKLER, Bayonne, N. J. Filed Apr. 8, 1919. Serial No. 288,584. 3 Claims. (Cl. 36—1.)



1. In foot wear of the type described, a sole comprising a heel and instep section, a toe section and an intermediate section, the sections having their adjacent ends provided with engaging tongues and grooves to permit flexing of the sole, and a double hinge connecting the sections with each other, said hinge including leaves having eyes, and pintles engaging the eyes, said leaves being fixed in the said toe and the said heel and instep sections with their eyes coinciding with the centers of the said tongues, and the pintles being held in the said intermediate section.

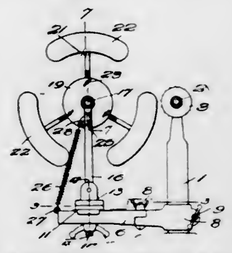
1,341,499. AUTOMATIC DUMP-LOCK. THOMAS EARL DE VOL, Belgrade, Nebr. Filed Nov. 13, 1918. Serial No. 262,409. 1 Claim. (Cl. 214—49.)

The combination with a bin having a vertically swinging closure at its top, of a supported tilting platform arranged at one side of the bin adjacent to the closure and normally in the same plane therewith, keepers arranged on the bin, a rocker in the keepers, arms on the rocker and forming latches engageable with the platform to hold



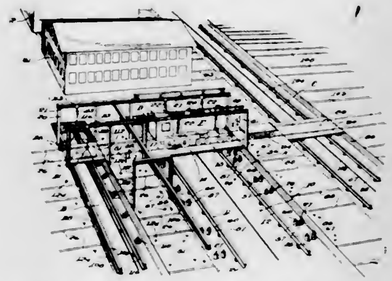
it against tilting movement, manually controlled means for actuating the rocker to bring the same to releasing position, and means connected with the closure and active upon the latches to hold the same on movement of the closure in one direction.

1,341,500. TIRE-TREATING MACHINE. CHARLES L. DURHAM, Salina, Kans. Filed Jan. 20, 1919. Serial No. 272,082. 6 Claims. (Cl. 51—3.)



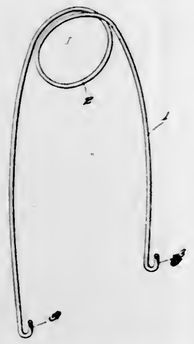
1. A device of the character described including a horizontally adjustable supporting arm, a bracket slidably secured to one portion of said arm and adjustable longitudinally thereof, said bracket also being capable of having rotary adjustment with relation to the arm, a standard pivoted to the bracket, and a rotatable adjustable tire supporting means secured to and capable of having other rotary adjustments in a horizontal plane with relation to the standard.

1,341,501. APPARATUS FOR DISMEMBERING AND ASSEMBLING ROLLING-STOCK. JAMES A. EARLEY, Washington College, and JAMES L. HUMPHREY, Telford, Tenn. Filed Aug. 4, 1919. Serial No. 315,298. 52 Claims. (Cl. 104—32.)



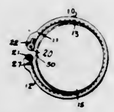
1. In an apparatus for dismembering and assembling rolling stock, the combination of a pit, a track in said pit, a car for travel over said track, means for elevating said car to position the upper surface flush with the top of the pit, tracks leading laterally from the pit, tracks carried by the upper surface of said car and adapted to aline with any of said tracks leading laterally from the pit, and means for retarding the downward movement of the car into the pit.

1,341,502. JAR-LIFTER. BENJAMIN W. GENUNG, Ulysses, Pa. Filed Aug. 20, 1917. Serial No. 187,225. 1 Claim. (Cl. 294—33.)



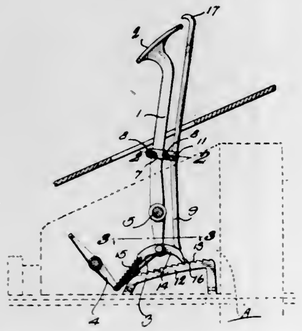
A jar lifter composed of a substantially U-shaped spring wire member including a coiled web portion and outwardly bowed normally extended legs having their extremities turned back in relatively close, spaced and parallel relation to the lugs to provide laterally disposed hooks, said hooks being arranged at substantially right angles to the coiled intermediate portion and adapted, upon compression of the legs, to receive the locking bail of a jar, the coiled web portion constituting a handle capable of utilization without restraining the tension of the legs and also constituting tensioning means maintaining the hooks in engagement with a jar bail, upon release of the leg portions.

1,341,503. RIMMED EYEGLASSES AND SPECTACLES. SAMUEL GOLDFADEN, New York, N. Y. Filed May 27, 1919. Serial No. 300,027. 9 Claims. (Cl. 88—47.)



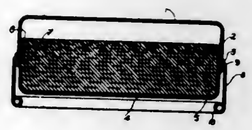
1. In rimmed eyeglasses and spectacles, an open rim adapted to hold a lens, interlocking members at the ends of the said open rim, and extending approximately parallel to the optical axis of the lens, and means holding the said interlocking members in interlocked position.

1,341,504. LEVER-LOCK. ROY M. GRIPE and THOMAS S. HUNT, Broadview, Mont. Filed Sept. 17, 1918. Serial No. 254,459. 1 Claim. (Cl. 74—81.)



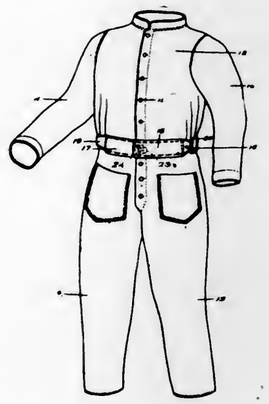
The combination with the low speed clutch operating foot lever of an automobile, of a pawl pivotally mounted intermediate its ends upon the lower end of said lever, and having a convex upper edge, a ratchet adapted to be engaged by said pawl to lock the lever against accidental pivotal movement, a second lever, a pair of clamping plates pivotally supporting said second lever and clamped to the foot lever intermediate its ends, said second lever having its lower end shaped to lie in facial abutment with a portion of the convexed edge of said pawl, and a spiral spring connected to one end of said pawl for moving the pawl out of engagement with said ratchet.

1,341,505. SELF-OPENING CONTAINER. CHARLES GUERITEY, Brooklyn, N. Y. Filed May 8, 1919. Serial No. 295,528. 10 Claims. (Cl. 220—43.)



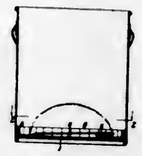
1. A self-opening container comprising a body portion, a cover frictionally engaging said body portion and a spacing member in contact with the cover holding the body in spaced relation to a supporting surface, so that relative movement of the body and cover is effected by suddenly striking the spacing member.

1,341,506. OVERALLS. JOSEPH A. HORN, Los Angeles, Calif. Filed May 15, 1917. Serial No. 168,746. Renewed Nov. 26, 1919. Serial No. 340,796. 2 Claims. (Cl. 2—144.)



1. A garment, comprising a jacket and trousers forming one-piece overalls and having an opening extending from the neck to the crotch and down the front thereof, said opening being normally closed by buttons, fixed belt portions secured to both sides of the front of the waist, a non-adjustable clasp adapted to fasten these belt portions adjacent the front opening of the garment, and a loose belt member extending around the back of the waist and adjustable fasteners for fastening the opposite ends of said loose belt member to the free ends of the fixed belt members.

1,341,507. FALSE BOTTOM FOR GARBAGE-RECEPTACLES. CLAS J. JACOBSSON, New York, N. Y. Filed Jan. 25, 1919. Serial No. 273,093. 2 Claims. (Cl. 220—65.)



1. As an article of manufacture a false bottom for garbage receptacles made of paper and having an upturned integral resilient flange adapted to engage the inner surface of the receptacle to frictionally hold the bottom on the bottom of the receptacle, said bottom being provided with a handle and adapted to be dumped out of the receptacle with the contents thereof.

1,341,508. SOLDER FOR ALUMINUM. ROY A. JACOBSEN, St. Louis, Mo. Filed Jan. 2, 1919. Serial No. 269,340. 1 Claim. (Cl. 75—1.)

An aluminum solder including sixty seven and sixty hundredths (67.60) per cent. tin; eixteen and ninety hundredths (16.90) per cent. zinc; two and eighty two hundredths (2.82) per cent. metallic bismuth; one and forty one hundredths (1.41) per cent. aluminum; and eleven and twenty seven hundredths (11.27) per cent. phosphorus tin, substantially as set forth.

1,341,509. PENCIL-HOLDER. AUGUST KLINGELE, Lorain, Ohio. Filed Feb. 18, 1920. Serial No. 359,602. 3 Claims. (Cl. 120—9.)



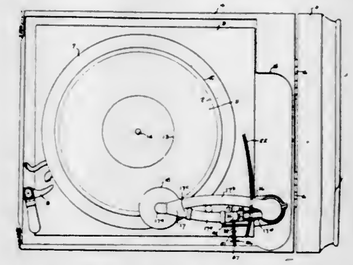
1. A holder of the character described comprising a pair of crossed pivotally connected members formed with semi-tubular end portions constituting jaws and levers, a sleeve detachably telescoped over said levers for holding the jaws closed and adapted to receive a pencil therebetween, and an element forming an awl and an eraser detachably and reversibly engaged in the sleeve.

1,341,510. REFRACTORY CEMENT. STAFFORD A. MCMINN, London, England. Filed Mar. 9, 1920. Serial No. 364,546. 4 Claims. (Cl. 106—10.)

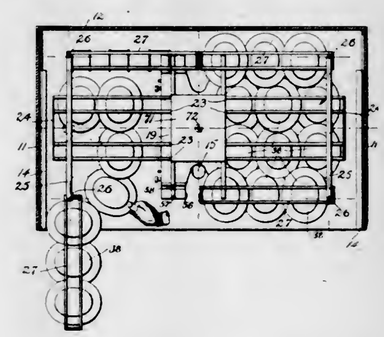
1. A cement composition containing not less than 33% and not more than 50% of powdered glass together with fireclay.

1,341,511. PHONOGRAPH ATTACHMENT. DENNIS MCNEILL, Huntington, W. Va. Filed Jan. 23, 1919. Serial No. 272,692. 4 Claims. (Cl. 274—23.)

1. A device of the character described comprising a tone arm provided with a tubular sound passage having a constant length, and further provided with another tubular sound passage having a variable length, and mechanism controllable by the movement of the phonograph for varying the length of said second-mentioned tubular member.

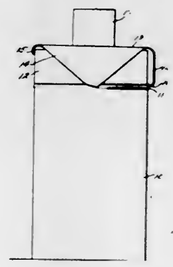


1,341,512. DISPLAY-RACK. ANDREW E. MILLER, Baltimore, Md., assignor to Solomon Himmel, Baltimore, Md. Filed Apr. 9, 1915. Serial No. 20,238. 35 Claims. (Cl. 211—16.)



1. A display rack of the character described comprising a base, a support rotatably mounted thereon, a main article supporting panel member of skeleton construction carried by said support, upper and lower supporting bars carried by the ends of said main panel member and disposed transversely thereof, and auxiliary article supporting panel members pivotally engaging the ends of said bars and mounted to inclose the main panel member.

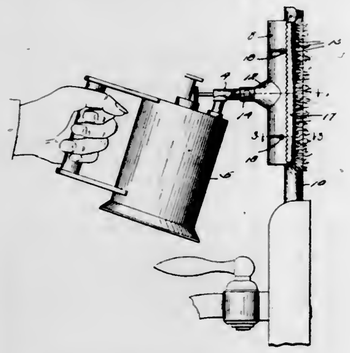
1,341,513. COVER-REMOVER. ALBERT S. MORANGE, Northampton, Mass. Filed Dec. 1, 1919. Serial No. 341,613. 1 Claim. (Cl. 81—3.1.)



A can cover remover comprising, a disk, a plurality of depending flanges arranged substantially around the

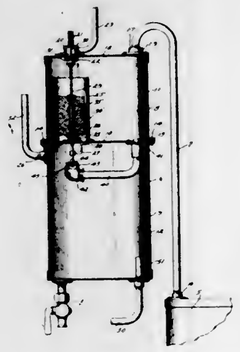
periphery of said disk, said flanges tapering to a point at their lower-most position, a knife formed on each flange by bending said points inwardly so that the bend line is at an angle to said disk, said knives being adapted to engage the lower edge of a can cover, and raise said can cover by a wedging action between the bead of said can and lower edge of said cover, said knives also being adapted to cut an annular slit in the label surrounding said can, and means for rotating said can remover.

1,341,514. UNIVERSAL QUICK-THAW TORCH. JOSEPH W. MOSS, Beacon, N. Y. Filed Dec. 13, 1919. Serial No. 344,716. 3 Claims. (Cl. 158—33.)



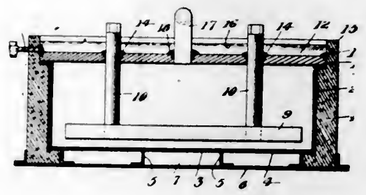
1. A water-pipe thawing attachment for blow torches, comprising a tubular casing having closed ends and a longitudinal opening adapted to extend over a portion of the outer surface of a pipe, the marginal edges adjacent said opening being provided with projections or serrations to engage the pipe and a tubular extension projecting from the casing opposite said opening and adapted to be secured to the burner tube of a blow torch.

1,341,515. FUEL-SUPPLY SYSTEM. MORRIS PARNES, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,368. 7 Claims. (Cl. 158—36.)



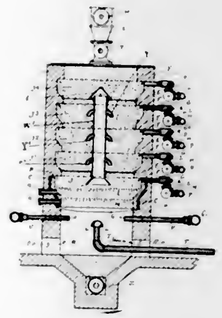
1. In a vacuum feed system, vacuum producing means, a vacuum chamber, a float chamber, a float in said float chamber, a rod secured to the float in said float chamber, a valve at the lower end of said rod for controlling the discharge from the vacuum chamber to the fuel chamber, and a valve at the upper end of said rod for checking the vacuum producing means, said float chamber serving as an overflow and vent for the vacuum chamber.

1,341,516. CHLORIN-CELL. THOMAS A. PATTERSON, Niagara Falls, N. Y., assignor to Niagara Alkali Company, Niagara Falls, N. Y., a Corporation of New York. Filed Feb. 17, 1920. Serial No. 359,476. 8 Claims. (Cl. 204—58.)



1. A closed electrolytic cell having a gas space with all joints thereof liquid sealed.

1,341,517. APPARATUS FOR DISTILLING CARBONACEOUS MATERIAL. WILLIAM PAGDEN PERRY, Leytonstone, London, England. Filed July 23, 1918. Serial No. 246,327. 1 Claim. (Cl. 196—19.)



In a distilling apparatus, a vertical container having its inner walls so formed as to provide a series of abutments at different elevations throughout said container, said abutments providing in combination with the walls of said container gas collecting spaces, a grate positioned in said container adjacent the lower end thereof, a lining of refractory material on the inner walls of said container above said grate, the walls of said container being provided with openings above said grate adapted to serve as poke holes, means for removing the accumulated gases from said gas collecting spaces, means positioned below said grate for introducing gas and steam into the material to be treated, means to introduce the material into said container, means to remove the residue of material from the container after the same has been treated, and means comprising a vertical tube having downwardly-extending outlets positioned within said container above the grate for introducing gases generated in the material adjacent said grate into the material under treatment at various levels.

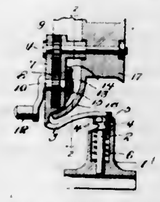
1,341,518. SELF-RAISING LID FOR ICE-CREAM CABINETS. CHARLES REED RAGSDALE, St. Louis, Mo. Filed June 27, 1919. Serial No. 307,176. 8 Claims. (Cl. 217—60.)

1. The combination with a receptacle and a lid thereon adapted to be raised or lowered; of a wing rigid with said lid and projecting therefrom, to be swung through an arc in the raising or lowering of the lid, a compression spring mounted on said receptacle independently of said



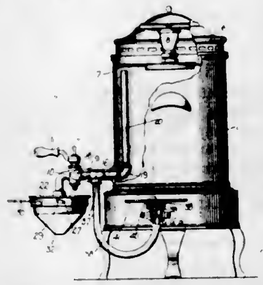
lid and adapted to be compressed by arcuate movement of said wing in the lowering of the lid, the reaction of the spring serving to lift said lid.

1,341,519. FISHING-REEL. DÉSIRÉ MARIE REUZÉ, Rennes, France. Filed June 1, 1917. Serial No. 172,347. 2 Claims. (Cl. 242—84.1.)



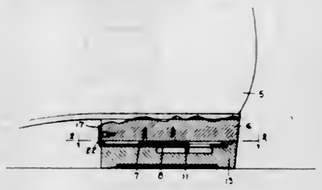
1. In a fishing reel, a base for attachment to a rod, a carrier detachably secured to the base, a pair of shafts mounted in the carrier and provided with interengaging gears, one of said shafts also having a crank and a click wheel, a spool detachably mounted on the other shaft and having a recess in the end next to the carrier, the said gears and click wheel being received in said recess, and a spring pressed pawl also mounted in said recess and arranged to engage the click wheel.

1,341,520. COFFEE-URN. ALFREDO M. SALAZAR, New York, N. Y. Filed June 26, 1919. Serial No. 306,818. 1 Claim. (Cl. 53—3.)



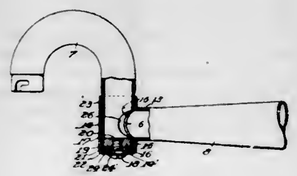
A device for brewing beverages comprising a steam generating receptacle, a faucet carried by said receptacle on the exterior thereof and in communication with the steam space of the steam generating receptacle and the fluid from which the steam is generated, a disk adapted to be removably secured to said faucet, said disk having inner and outer concentric flanges, a funnel-shaped receptacle adapted to be secured to the outer of said flanges, a closed bag within said funnel-shaped receptacle and in communication with the discharge of the said faucet, and a fluid spreading device comprising a cup-shaped member removably secured to the inner of said concentric flanges and in direct line with and proximity to the discharge of said faucet.

1,341,521. HEEL FOR SHOES. ALBERT BRUNO SCHAEFER, New York, N. Y. Filed Aug. 5, 1919. Serial No. 315,469. 1 Claim. (Cl. 36—42.)



A heel for shoes comprising a body portion rigidly carried by the shoe and a detachable tread portion, a slotted plate carried by the detachable tread portion, a plate carried by the rigid body portion of the heel, a T-head formed integral with said plate and right-angularly disposed with respect thereto, said T-head being adapted to be received within the slot of the first-mentioned plate, and projecting tongues formed integral with said first-mentioned plate and perforated to receive fastening means whereby the said plate is secured to the breast of the rigid body portion of the heel.

1,341,522. SOUND-TUBES FOR TALKING-MACHINES. LLOYD Y. SQUIBB, Camden, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Aug. 10, 1917. Serial No. 185,426. 12 Claims. (Cl. 274—24.)

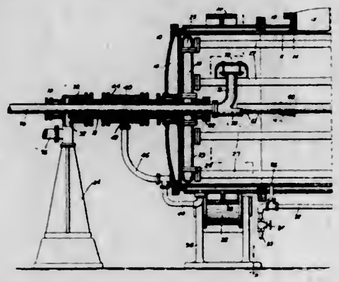


1. In a sound tube, the combination of a tone arm, a gooseneck, and a pivotal connection between one end of said gooseneck and the free end of said tone arm, comprising a cylindrical sleeve substantially closed at one end and rigidly mounted on the free end of said tone arm and inclosing one end of said gooseneck, a relatively narrow cylindrical bearing between the outer surface of the inserted end of said gooseneck and the interior surface of said sleeve, a pivotal bearing between the inner end of said gooseneck and the closed end of said sleeve, and means to prevent longitudinal movement of said gooseneck with respect to said sleeve.

1,341,523. APPARATUS FOR EXTRACTING GREASE FROM ORGANIC MATTER. KARL A. STAHLGREN and THOMAS L. SHANNON, Newport, R. I. Filed Mar. 11, 1919. Serial No. 282,036. 9 Claims. (Cl. 87—6.)

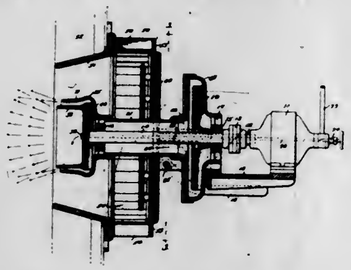
1. An apparatus for extracting grease from organic matter, comprising a rotatable drum adapted to contain the organic matter, means for heating the drum and its

contents, means for introducing a solvent into the drum, and means rotatable in opposite directions to the drum



and arranged adjacent the wall of the drum for agitating the organic matter and the solvent while contained within the drum, said agitator serving as a heating medium.

1,341,524. HYDROCARBON-BURNER. KARL A. STAHLGREN, Newport, R. I. Filed Nov. 26, 1919. Serial No. 340,765. 7 Claims. (Cl. 158—4.)



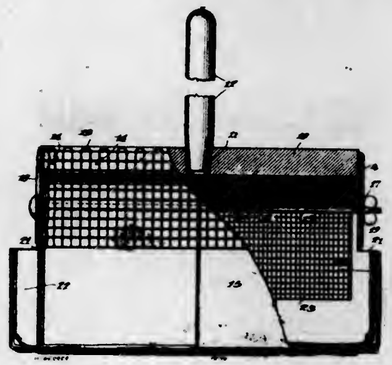
1. A hydrocarbon burner, comprising an air discharge nozzle, a centrifugal atomizer mounted to turn in the said nozzle and forming with the latter an annular passage for the air, main air pressure means connected with the said passage, and auxiliary air pressure means within the said passage to increase the pressure of the air delivered by the said main air pressure means and to discharge the increased air pressure through the nozzle to commingle with the atomized fuel discharged from the outer edge of the said atomizer.

1,341,525. PERFUME-VIAL. ANTOINE VÉRICEL, New York, N. Y., assignor to Les Fleurs De Cristal, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1919. Serial No. 274,318. 6 Claims. (Cl. 299—20.)



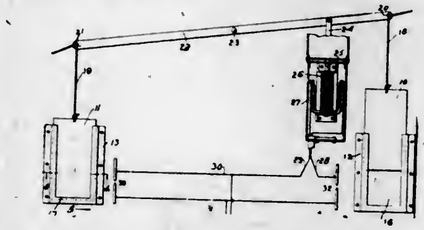
6. A device of the character described comprising a vial affording a perfume chamber, and re ĕntrant, relatively frangible cup presenting outwardly a restricted opening, and capillarily porous material filling said cup, and a stylet positioned in said porous material and having a head outwardly projecting and conveniently accessible for forcing the stylet inwardly, said stylet being arranged when so forced inwardly to break the frangible cup to open communication between the interior of the vial and the reĕntrant cup containing the porous material.

1,341,526. BROOM. THEODORE AUGUST VOSS, Phoenicia, N. Y. Filed May 22, 1919. Serial No. 298,849. 3 Claims. (Cl. 15—19.)



1. A broom comprising a wooden headblock, a reticulated retaining band surrounding the same and extending below the lower end of said headblock, a plurality of flexible sheets folded and inserted within said band below said headblock, part of said folded sheets having longitudinally extended portions projecting beyond the ends of the headblock and said band, and means for locking the said folded sheets within said band.

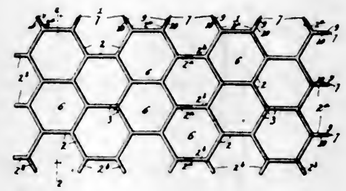
1,341,527. EQUIPMENT FOR MOVING-PICTURE MACHINES. RAY NICHOLAS VYNE, Prescott, Ariz., assignor of one-third to Ray N. Vyne, one-third to Garrett O. Vyne, and one-third to Harry J. Smith, Prescott, Ariz. Filed May 13, 1919. Serial No. 296,920. 5 Claims. (Cl. 88—16.)



1. In an equipment for projecting moving pictures on a distant screen, means adapted to be interposed between the source of light and the screen to prevent the afterglow, incident to the extinguishing of the source of light, from reaching the screen, and actuating means for moving said means into interposed position, said actuating means controlled by the extinguishing of the source of light.

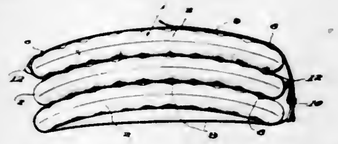
1,341,528. MEANS FOR PRODUCING IMITATIVE-TILE FLOORING AND THE LIKE. WILLIAM FRED WALLING, Los Angeles, Calif. Original application filed May 31, 1917. Serial No. 171,947. Patent No. 1,311,362, dated July 29, 1919. Divided and this application filed July 22, 1919. Serial No. 312,557. 4 Claims. (Cl. 18—61.)

2. A means for use in the production of homogeneous or monolithic tile surfaces of extended area corresponding in appearance to surfaces of like extended area formed by many individually laid tiles, comprising a web-like mold having connected walls outlining tile forms, with the walls of generally triangular shape in cross-section and the faces of the walls concaved in the direction of their length, each mold including a plurality of tile forms, with



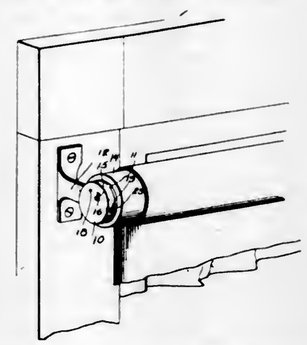
the mold provided with terminal bars forming division walls, and the matching bars of groups of molds being provided with means for coupling them, whereby there may be produced an extended area of tile mold forms of groups of joined molds forming smaller units than the extended area.

1,341,529. BUOYANT BELT. ROBERT MILTON WATTS, Rock Island, Ill. Filed Jan. 16, 1919. Serial No. 271,399. 4 Claims. (Cl. 9—17.)



4. In a buoyant belt, the combination, of a plurality of buoyant arcuate sections scribed on the same arc arranged to be placed one upon the other when the belt is in collapsed position, and a flexible strap slidably carried by the sections, permitting the sections to be adjusted in relation to each other when the same is in its inoperative and operative positions.

1,341,530. WINDOW-SHADE-SPRING ADJUSTER. CHARLES H. WISE, Winnetka, Ill. Filed June 1, 1917. Serial No. 172,255. Renewed Oct. 21, 1919. Serial No. 332,316. 6 Claims. (Cl. 156—36.)

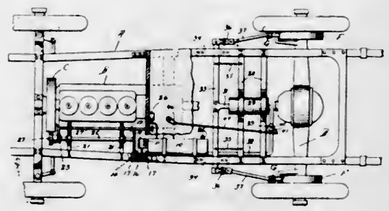


1. The combination with a curtain supporting bracket of a housing connected therewith, a socket member rotatably mounted in the housing for engagement with the spring winding pintle of a roller, and means for releasably holding the socket member against rotation in one direction.

3. The combination with a curtain supporting bracket of a housing connected therewith, a socket plate rotatably mounted in the housing and provided with a slot for receiving the spring winding pintle of a curtain roller, abutment flanges extending along the sides of the slot, and a pawl pivotally connected with the housing for engaging the abutment flanges to prevent rotary movement of the socket plate in one direction when the pawl is in an operative position.

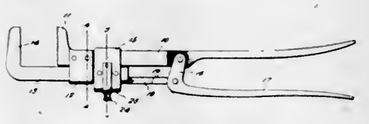
6. A spring adjusting device for the spring of a curtain roller comprising a housing having an outer wall and side walls, the side walls being provided with a slot, a socket plate rotatably mounted in the housing and provided with a slot for registering with the slot of the housing, and a pawl carried by the housing and engaging the socket plate to releasably hold the socket plate against rotary movement in the housing in one direction.

1,341,531. AUTOMOBILE AIR-BRAKE. CHESTER T. ALEXANDER, Victoria, British Columbia, Canada. Filed Aug. 16, 1918. Serial No. 250,246. 2 Claims. (Cl. 188—152.)



2. In a brake mechanism for motor vehicles including a brake setting device, a storage tank, and a pump for supplying pressure to the tank: means for driving the pump comprising a crank shaft journaled at one side of the frame of the vehicle and connected with the piston of the pump, a shaft extending longitudinally of the frame and operatively connected with said crank shaft, the forward end of said shaft being squared, a roller slidably mounted upon said squared portion and disposed for engagement with the fly wheel of the vehicle motor, said roller having a hub extension provided with an annular groove, and a rod extending through the vehicle dash and having a forked end engaging within said groove whereby said roller may be slid upon its shaft into or out of engagement with the fly wheel.

1,341,532. WRENCH. ANDREW B. AINAR, Mapleton Depot, Pa. Filed Dec. 1, 1919. Serial No. 341,635. 5 Claims. (Cl. 81—88.)

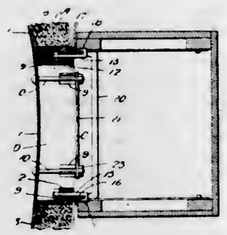


1. A wrench comprising a handle, a jaw at one end thereof, a second jaw having a shank, said shank being arranged for sliding movement in parallelism with the handle, a sleeve carried by the handle and slidably receiving said shank, a yoke carried by the shank and slidably embracing said handle, a nut arranged on said yoke, said nut having interrupted threads, a lever pivoted upon the handle, a threaded element projecting from said lever and received by said nut, whereby a fixed connection may be made between the lever and said shank to adjust the second mentioned jaw by means of said lever.

1,341,533. SILO-DOOR. THOMAS B. ATKINS, Canutillo, Tex. Filed Sept. 22, 1917. Serial No. 192,784. 8 Claims. (Cl. 20—1.42.)

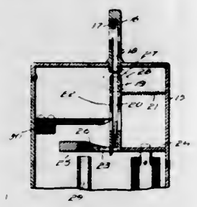
4. In a silo construction, the combination of a wall having an opening, an open frame in said opening and

having apertured bolt holders at its inner side, and bolts disposed in said holders and transversely within the frame



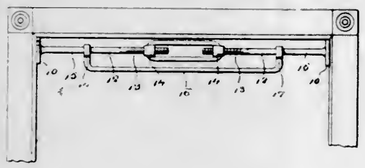
and adapted to effect connection of appurtenances to the frame.

1,341,534. COIN-COLLECTOR. HENRY HOWELL BAUMGARTNER, Newark, N. J. Filed Apr. 27, 1918. Serial No. 231,174. 3 Claims. (Cl. 194—9.)



1. In a money collecting apparatus, the combination with a receiver having a slot to receive a coin and movable in a direction to discharge the coin, and a contact closer in circuit with an electro-responsive device adapted to be engaged and operated by the coin; of means on said contact closer for locking the coin thereto prior to the closing of the circuit by the coin and the release of the coin from the receiver.

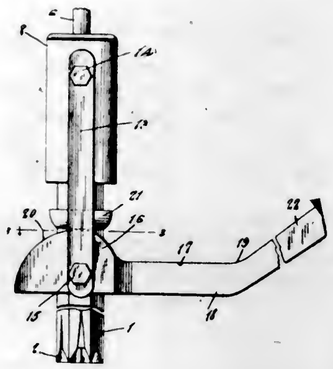
1,341,535. BRACKET. ALBERT BECKER, Oldham, S. D. Filed Oct. 15, 1918. Serial No. 258,144. 1 Claim. (Cl. 156—23.)



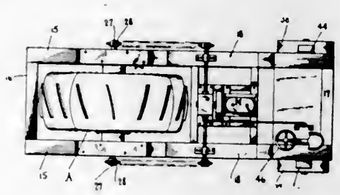
A shade bracket embodying oppositely extending alined rods threaded upon one end and rectangular in cross section for a portion of their lengths, brackets upon the opposite ends of said rods, a threaded sleeve connecting the adjacent threaded ends of the rods for relative longitudinal movement and a combined bearing and handle connecting said rods and having rectangular openings in its opposite end for sliding engagement with the rectangular portions of the rods.

1,341,536. BLOWER ATTACHMENT FOR DRILLS. RAYMOND BORCHERDT, Naturita, Colo., assignor of one-half to Charles C. Couch, Burns, Oreg. Filed June 23, 1917. Serial No. 176,565. 3 Claims. (Cl. 285—174.)

3. The combination with a manually operated drill having a longitudinally extending bore formed centrally therein, of a cap mounted upon the shank end of said drill, a hose connection on said cap adapted for communication with a blower of the drill bit for blowing fluid downwardly through the bit, a pair of bars pivotally carried by said cap, a handle pivotally connected to said bars, and means carried by said handle for engagement with said bit for securely clamping said cap upon the top of the bit shank.

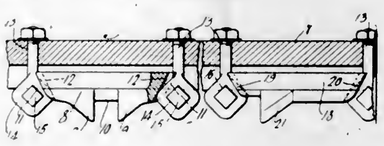


1,341,537. TRACTOR. CHARLES J. BRITT, Willington, S. C. Original application filed Apr. 15, 1918, Serial No. 228,709. Divided and this application filed Nov. 25, 1919. Serial No. 340,602. 9 Claims. (Cl. 180—25.)



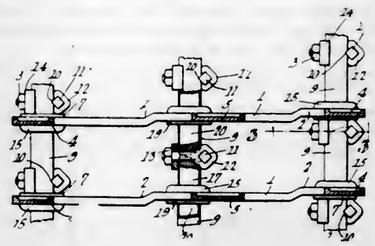
1. In a three-wheel tractor, a main frame, a single longitudinal-central driving wheel, means for supporting the driving wheel for rotation with respect to the main frame, means for rotating the driving wheel, steering wheels and steering means including means for tilting the frame to tilt the driving wheel in the direction in which a turn is to be made.

1,341,538. HARROW. JOHN D. BROWN, Las Animas, Colo. Filed July 12, 1919. Serial No. 310,380. 5 Claims. (Cl. 55—103.)



1. In a harrow the combination with parallel channeled bars, of members having apertures through which the bars extend, blocks seated in the channels in the bars and projecting into the members, bolts engaging the bars and having heads lapping the ends of the blocks to hold the blocks against movement within the channels, and teeth extending through and secured to the bars by the heads.

1,341,539. HARROW. JOHN D. BROWN, Las Animas, Colo. Filed Dec. 5, 1919. Serial No. 342,753. 3 Claims. (Cl. 55—103.)

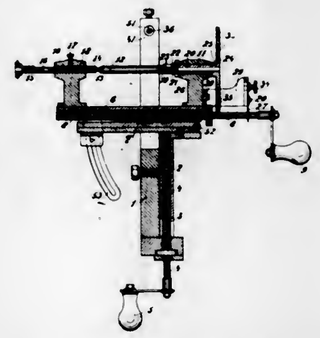


1. A harrow including a bar having circular openings, a disk mounted for rotation in each of said openings, there being spaced slots within each disk, spaced strips extending through the respective slots, said strips being arranged in pairs, means for fastening harrow teeth to these strips, and spacing means interposed between the harrow tooth fastening means and the bars and extending between the strips.

1,341,540. FILLING COMPOSITION. WALTER A. BRUNO, Los Angeles, Calif. Filed Sept. 8, 1919. Serial No. 322,304. 2 Claims. (Cl. 106—8.)

1. The herein described composition of matter, consisting of powdered aluminum, powdered graphite and powdered shellac.

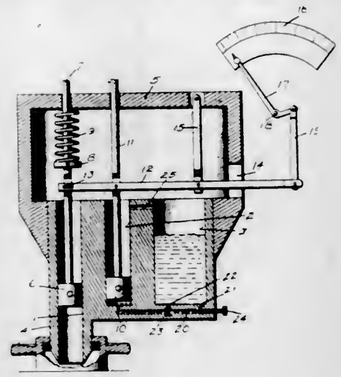
1,341,541. CUTTING AND ROUNDING-OFF MACHINE FOR TEETH FOR CLOCKWORK. FREDERIK LOUIS WILLEM BUCKMANN, Amsterdam, Netherlands. Filed Sept. 5, 1918. Serial No. 252,797. 2 Claims. (Cl. 90—3.)



1. A machine of the character described, comprising a U-shaped frame, a support vertically adjustable on the frame, a hinged and adjustable guideway carried by the support and extending between the members of the frame, an adjustable slide mounted in the guideway and having spaced heads, a work carrying spindle mounted between the said heads, a revoluble tool carrying spindle mounted between the upper ends of the members of the frame, said spindle being above and at right angles to the work carrying spindle, an indexing member operatively connected with the work carrying spindle, and an adjustable member adapted to engage the indexing member.

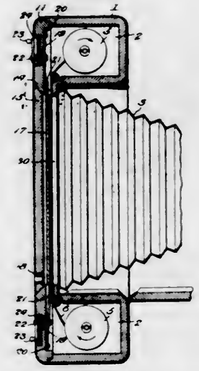
1,341,542. PRESSURE-INDICATOR. MOSES RIDLEY BUCHANAN, Silver City, N. Mex. Filed Mar. 31, 1919. Serial No. 286,297. 2 Claims. (Cl. 73—111.)

1. A casing having a cylinder provided with means for connecting it with the engine cylinder to be tested, and having other cylinders closed at the ends adjacent to the connecting means and open at their other ends and arranged with their axes parallel with that of the first named cylinder, a piston in the first named cylinder, a piston in one of the other cylinders, the third cylinder being a reservoir for liquid, each of the pistons having a rod extending through the open end of the cylinder and having guided movement in the casing, a link depending



from the top of the casing, a lever pivoted to the link, a connection between the lever and each of the piston rods, an indicator connected with the outer end of the lever, and a spring pressing the first named plunger toward the engine cylinder, said second named piston and the cylinder with which it coöperates being a dashpot, the cylinder having a restricted communication at its lower end with the third cylinder or reservoir.

1,341,543. CAMERA. WALTER T. CARDWELL, Birmingham, Ala. Filed July 24, 1918. Serial No. 246,588. 2 Claims. (Cl. 95—31.)

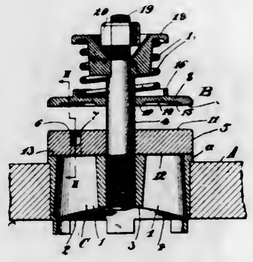


1. A camera back having an opening and equipped with a flush door for normally closing said opening, a ground glass plate disposed in the opening and spaced from the rear side of the back, resilient plates carrying pads arranged at opposite ends of the glass, and screws bearing in the back at opposite sides of the opening and journaled in and held to the said plates.

1,341,544. VALVE. GRANGE S. COFFIN, New York, N. Y. Filed Dec. 3, 1919. Serial No. 342,048. 2 Claims. (Cl. 251—129.)

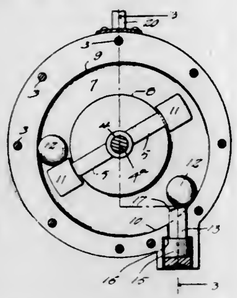
1. In a valve, a valve-seat; a fluid sealing valve-plate coöperating with said seat; means to guide said plate into

open and closed position relatively to said seat and permitting the rotation of said plate relatively to said seat, said plate having one or more fluid-ducts extending to its outer surface from the opening in said seat; a cover-plate movable into and out of fluid sealing position against the outer face of said valve-plate having a fluid sealing rim facing said valve-plate and having a wall within said rim spaced outwardly from the face of said rim and valve-plate so that said wall is exposed to fluid pressure through



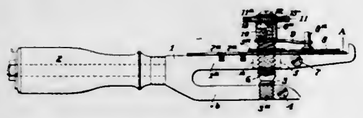
said ducts from the opening in said valve seat when said valve is closed; said valve-plate having one or more inclined surfaces against which fluid flowing through said valve will react to rotate said valve-plate; and a spring operating upon said cover-plate tending to close said cover-plate against said valve-plate and said valve plate against said seat, all whereby said cover-plate lifts first under the valve opening action of fluid pressure to permit a reacting flow of fluid to rotate said valve-plate.

1,341,545. MOTOR-OPERATED ROTARY HAMMER. RALPH E. COVERT, Detroit, Mich. Filed Nov. 23, 1917, Serial No. 203,647. Renewed Dec. 30, 1919. Serial No. 348,376. 4 Claims. (Cl. 78—34.)



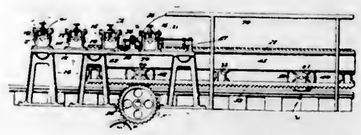
1. A motor actuated rotary hammer including a casting having a raceway, a shaft journaled in the casing, a rotary hammer carried by the shaft and extending into the raceway, a ball free from the hammer operating in the raceway and engaged by said hammer, and a tool member projecting into the path of the ball.

1,341,546. MICROMETER. JOHN JONES DAVIS, Youngstown, Ohio. Filed Sept. 23, 1919. Serial No. 325,704. 7 Claims. (Cl. 33—147.)



1. In a micrometer a forked member having a deep bifurcation at one end and a handle projecting from the other end in substantial alinement with said bifurcation, a rigid contact member carried by one arm, an opposed contact screw threaded through the opposite arm, a dial plate secured to said arm, a pointer arranged to swing about the axis of the opposed screw, means for rotating said opposed screw, and means for causing said pointer to be moved in unison with said opposed screw.

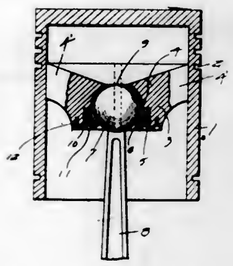
1,341,547. GLASS-ROLLING APPARATUS. CHARLES DAWSON, Paden City, W. Va. Filed May 29, 1918. Serial No. 237,255. 6 Claims. (Cl. 49—32.)



1. In an apparatus of the class described, a traveling table, a supporting structure, a plurality of rolls carried by said structure, and means for embedding wire mesh in a sheet of glass being rolled, said means comprising a corrugated roll formed of disks arranged at an incline with reference to the axle of the roll and angular elements of tapering cross section abutting the end disks of the roll and determining the angle of inclination of all of the disks.

6. In a device of the class described, a traveling table, a plurality of rolls, means for feeding a wire mesh and comprising a plurality of rolls one of which is vertically movable, and means controlled by the position of the table, for raising the roll last named, until a predetermined length of glass has been fed.

1,341,548. CONNECTING-ROD BEARING. WILLIAM E. DAY, Pittsburgh, Pa. Filed June 25, 1918. Serial No. 241,782. 1 Claim. (Cl. 74—108.)

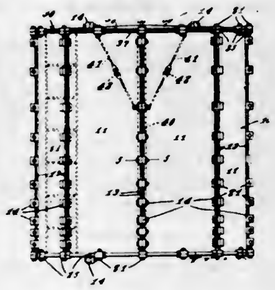


A connecting rod bearing including a hollow piston, a web located in the upiston and having a recess in its lower face, arms formed on the web and piston and adapted to permit free passage of lubricant by the web, a connecting rod having a ball formed on one of its ends and disposed in the recess, means holding the ball in the recess, said web having an opening communicating with the recess and extending through the top wall of said web, and said web having its top face inclined in the direction of the opening to direct lubricant into said opening.

1,341,549. KNOCKDOWN CLAMP-TANK. JOHN F. A. DECK, Okmulgee, Okla. Filed Dec. 12, 1919. Serial No. 344,445. 9 Claims. (Cl. 220—5.)
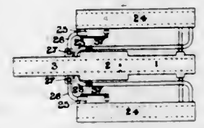
1. A knock down clamp tank comprising a lateral section, and end sections each comprising a series of sheet metal sections having their meeting edges provided with flanges, at least one of said end sections comprising an intermediate sheet metal section with convexed ends and

rectilinear side edges and semi-circular sections at either side thereof and coöperating therewith to produce a circular member, said semi-circular sections having rectilinear edges abutting the aforesaid rectilinear edges, said edges being provided with flanges and clamping means for connecting said sections at the flanges, said clamping means comprising coacting jaws provided with registering recesses for receiving said flanges and adapted to clamp the sections inwardly of said recesses, means for preventing relative movement of the jaws facewise but adapted to permit angular engagement and disengagement thereof, and means between the recesses and the last-named means for clamping the jaws together.



5. The combination with relatively flat sheet metal sections adapted to be secured together at their edges and provided with flanges bent in angular relation with respect thereto; of clamping means therefor, said clamping means including jaw blocks disposed in contact and provided with coacting grooves extending across the same and receiving said angularly bent portions in opposite directions, said jaw blocks clamping said sections inwardly of said grooves, said angularly bent portions being designed to receive a packing therebetween, one of said jaw blocks having a recess across its inner face adjacent to its outer end and the other jaw block having a rib across its inner face engaging said recess, and adjustable clamping means disposed through the jaw blocks between the grooves and said coacting rib and recess.

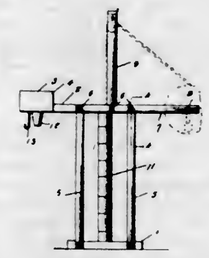
1,341,550. KILN. FRANCIS FIDLER, Wigan, and JAMES GRAHAM MAXWELL, London, England. Filed Dec. 27, 1919. Serial No. 347,669. 8 Claims. (Cl. 25—142.)



1. A car kiln having a cooling zone, the walls of such zone being formed with air ducts closed against the interior of said zone, a wall of said ducts open to said zone being of independent material of relatively high heat conductivity.

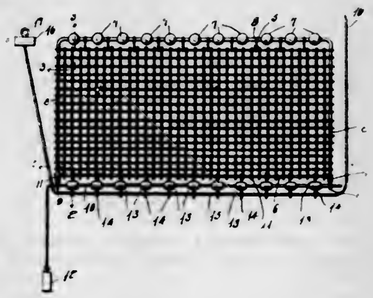
1,341,551. WELL-CURB. ARCH C. GILES, Hanceville, Ala. Filed Jan. 9, 1920. Serial No. 350,434. 3 Claims. (Cl. 103—65.)

3. A well curb comprising a base, an upper floor above said base, a discharge pipe extended through said upper floor and said base, side standards connecting said upper floor and said base, means for securing said standards to said upper floor and said base, drum supporting means carried by said upper floor and secured thereon by the same means employed for securing said side standards to said upper floor, pulley supporting means mounted on



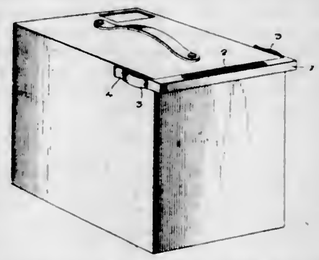
said upper floor, a trough carried by said upper floor, a discharge spout carried by said trough, and vessel supporting means carried by said trough.

1,341,552. FISHING-NET. JEFF DAVIS GOSS, Lake City, Fla. Filed Nov. 6, 1918. Serial No. 261,384. 3 Claims. (Cl. 43—7.)



1. An apparatus of the character described comprising, a net adapted to be placed vertically in the water; a plurality of floats secured to the upper end of the net to support the same; an anchor line secured to the lower end of the net; an anchor secured to the anchor line; a plurality of sinker elements arranged on the anchor line and disposed in line with the net; eyelets secured to the sinker elements; a drawline extending through the elements; and a float element rigidly secured to one end of the drawline and adapted to be slidably engaged with the free end of the drawline after the net has been set.

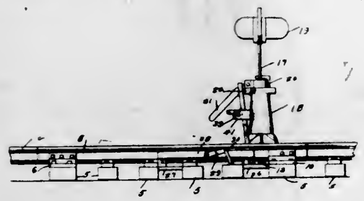
1,341,553. LEVELING ATTACHMENT FOR CAMERAS. DALE D. HAHNE, Hastings, Nebr. Filed June 21, 1919. Serial No. 305,725. 2 Claims. (Cl. 33—207.)



1. As a new and useful article of manufacture, a leveling attachment for cameras, comprising a body bar having

a flat and straight inner side adapted to be arranged against one side of a box-like camera case, a spirit vial arranged longitudinally in said bar in position to be displayed at the upper side thereof, and resilient clamping arms reaching inwardly and laterally from the ends of the flat inner side of the bar and having inwardly deflected portions adjacent to their free ends and adapted to engage opposite sides of the camera case.

1,341,554. RAILROAD - SWITCH. LINDSEY & HARVEY, Collins, Miss. Filed May 9, 1919. Serial No. 295,833. 2 Claims. (Cl. 246—445.)



1. A railroad switch including spaced ends of the main track and a branch track communicating with one of the ends of the main track, movable switch sections pivotally mounted at one end of the main track, cuffs secured to the other ends of the movable sections, members carried by said cuffs and pivotally connected together and having a pair of notches, means connected to said members for shifting the switch sections and locking means controlled by said means and adapted to move into and out of engagement with the notches for locking and unlocking the switch sections.

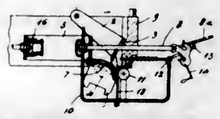
1,341,555. SPRING-SEAT. OMER E. HERSHEY, Gap, Pa. Filed Aug. 11, 1919. Serial No. 316,688. 1 Claim. (Cl. 155—25.)



A spring seat structure comprising a base frame, a pair of side frames rising from said base frame and pivotally connected therewith for swinging movement toward and away from each other, each side frame including a tubular member and a brace member, arms, adjustably telescopically engaged within said tubular members and having their upper ends rearwardly and downwardly curved, telescopically connected members connected with the downturned ends of said arms, springs connected with said arms and depending therefrom, and a seat suspended from said springs.

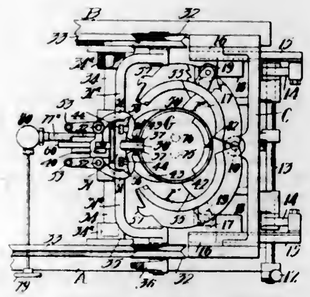
1,341,556. DRAW-BAR COUPLING. THOMAS GEORGE HIGGINS, Brierley Hill, England. Filed Oct. 8, 1917, Serial No. 195,320. Renewed Mar. 22, 1920. Serial No. 367,886. 2 Claims. (Cl. 213—42.)

1. In the herein described draw-bar coupling for railway vehicles and the like, means for advancing and retracting the draw-bar, the said means comprising in combination, a cross shaft journaled in the body underframe of the vehicle and having operating handles at either end, a foot piece rigidly fixed to and suspended from said cross shaft and formed with two hooks at one end, a cradle in the shape of a rectangular frame mounted between the longitudinal members of the vehicle frame and situated below the cross shaft, a distance member pivoted to the outer end and at the bottom of the said cradle and normally resting on the aforementioned foot



piece, the said distance member being formed with a projection at each side and each projection being adapted to engage with the corresponding hook on the foot piece when the latter, through the action on the cross shaft, is swung out from its normal position, and a slidable and spring-influenced frame connected to the inner end of the draw-bar and suspended therefrom, the inner end of said frame abutting against the pivoted distance member, all as and for the purpose set forth.

1,341,557. MACHINE FOR CASTING AND FINISHING TUBULAR STEREOTYPE-PLATES. CHARLES E. HOPKINS, Plainfield, N. J. Filed Oct. 2, 1913, Serial No. 792,995. Renewed Sept. 24, 1919. Serial No. 325,996. 19 Claims. (Cl. 22—3.)



1. In an apparatus for casting tubular stereotype plates, the combination of a cylindrical core, two pivoted concave matrix supporting backs, and a leverage system for moving both backs so as to envelop the core and form a cylindrical casting chamber between them.

3. In an apparatus for casting tubular stereotype plates, the combination of a cylindrical core, a frame, two concave backs, both pivoted on said frame, and means for moving both backs on their pivots toward each other to form a casting chamber between them and the core.

5. In an apparatus for casting tubular stereotype plates, the combination of a frame, two concave backs supported by the frame, a core supported on said frame, means for moving the core between the backs, and means for simultaneously moving the backs so that their concavities envelop the said core.

9. In an apparatus for casting tubular stereotype plates, the combination of a back, a core, matrix clamps, having lips, said core having a recess in the face thereof in which the lips on the matrix clamps are located, and means for moving the lips of the clamps into or out of said recess.

17. In an apparatus for making tubular stereotype plates, the combination of a tubular core, a hollow finishing cylinder, means for swinging the core endwise through an arc into axial alinement with the finishing cylinder, and means for moving a plate cast on the core longitudinally from said core into the said finishing cylinder.

1,341,558. MEANS TO BE EMPLOYED IN THE ELECTRIC WELDING OF IRON OR STEEL OR ALLOYS THEREOF. AUGUSTUS CHARLES HYDE, Perivale, England. Filed Nov. 25, 1919. Serial No. 340,444. 4 Claims. (Cl. 219—8.)

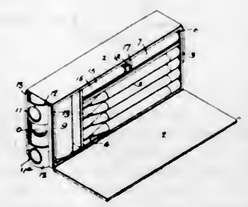
1. The method of preparing iron electrode welding wires which comprises coating the wire with a magma of a flux mixture, and heating the coated wire to a temperature sufficient to fuse the flux mixture thereon, but below welding heat, the composition of the flux mixture being such that at welding temperature it forms a slag which will not adhere closely to, and can be readily removed from, the welded iron.

2. The method of preparing iron electrode welding wire, which comprises coating the wire with a magma of powdered asbestos and powdered silicate of soda, and then heating the coated wire to a temperature sufficient to fuse the flux mixture thereon, but below welding heat, for the purpose described.

3. An iron electrode having a coating of flux material fused thereon which forms, at welding temperature a weakly adherent slag.

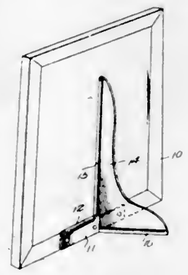
4. An iron electrode having fused thereon at a heat below welding temperature a magma of powdered asbestos and powdered silicate of soda, serving as a flux which at welding temperature forms a weakly adherent slag, substantially as described.

1,341,559. TRAINMAN'S KIT. GEORGE BABE JACKSON, Philadelphia, Pa. Filed Aug. 19, 1919. Serial No. 318,535. 4 Claims. (Cl. 240—8.4.)



3. The combination, in a receptacle, of a box or case, a lamp disposed in one face of said box or case, a battery carried by said case for providing said lamp with current, and a plurality of colored lenses carried by said case and slidably movable with respect to the lamp whereby signals of different color may be shown.

1,341,560. EASEL. ADOLPH F. JOHNSON, Hancock, Mich. Filed Nov. 17, 1919. Serial No. 338,744. 2 Claims. (Cl. 40—146.)



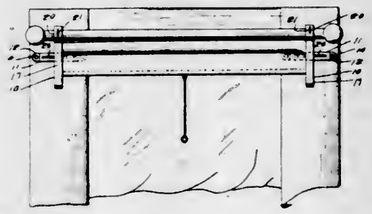
1. An easel comprising a supporting leg, a sleeve located along one edge thereof, an attaching member, a sleeve also located along one edge of the attaching member and an L-shaped rod having one arm positioned within the sleeve of the leg and the other arm positioned within the sleeve of the attaching member to provide for a pivotal movement of both the leg and attaching member upon the rod.

1,341,561. PURIFICATION OF SEWAGE AND OTHER LIQUIDS. WALTER JONES, Stourbridge, England. Filed Aug. 8, 1919. Serial No. 316,224. 4 Claims. (Cl. 210—8.)



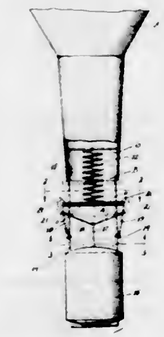
1. In a purification system, a tank divided into a plurality of communicating open chambers, and an air supply for each chamber, the walls of the chambers being formed to direct the flow of liquid under the pressure of the air supply in a circulatory path within the chamber.

1,341,562. WINDOW-SHADE AND CURTAIN-POLE BRACKET. WILLIAM FRANK KASBOHM, Van Wert, Ohio. Filed Nov. 26, 1919. Serial No. 340,753. 2 Claims. (Cl. 156—23.)



2. A device of the character described comprising a supporting strip provided with a longitudinally extending slot, a bracket having a standard bent intermediate its length to provide a seat for receiving said supporting strip, a fastener passing through the slot of said strip and through said standard, a block carried by said fastener for engaging the inner face of the strip when the fastener is tight to releasably hold the bracket in a set position, an upper arm extending from the standard and terminating in a pole receiving seat, the bracing arm extending from the lower end of the standard and connected with the upper arm, and a strengthening strip positioned between the bracing arm and the standard having a pintle receiving seat.

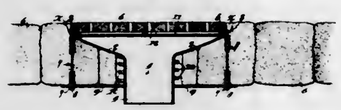
1,341,563. AUTOMATIC VALVE FOR FUNNELS. THEODORE L. KAUFMAN, Carbondale, Ill. Filed Dec. 1, 1919. Serial No. 341,634. 2 Claims. (Cl. 226—37.)



1. A valve attachment for funnels comprising a disk normally spring-pressed into engagement with the end of

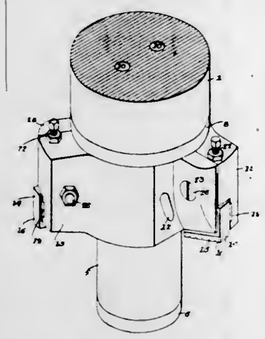
the funnel, a plurality of U-shaped guide members carried by the funnel and constituting a guide, latch members pivoted upon said guide members and engageable with said disk whereby to hold the same away from the end of the funnel, a float slidable within said guide members, and links connected with said float and with said latch members, whereby upon upward movement of the float such latch members will be moved outwardly to disengage the disk and permit the same to engage the end of the funnel.

1,341,564. HOSPITAL-MATTRESS. PERCIVAL F. KING, Vancouver, British Columbia, Canada. Filed Aug. 22, 1918. Serial No. 250,980. 1 Claim. (Cl. 5—13.)



In combination with a mattress, a funnel-shaped pan having a central discharge outlet removably secured within a correspondingly shaped aperture in the mattress, a washer plate, flexible connections between the upper edge of the pan and the washer plate, said connections passing through the mattress body, the upper edge of the pan being recessed beneath the general upper surface of the mattress, a drainage plate in the upper end of the pan located in a plane beneath the adjacent surface plane of the mattress, and a perforated plate of heat non-conducting material resting on the drainage plate, the exposed surface of said perforated plate substantially coinciding with the adjacent face of the mattress, substantially as shown and described.

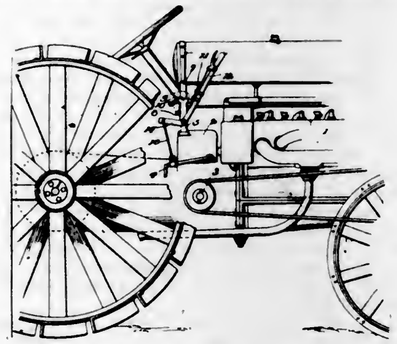
1,341,565. BORING-HEAD. HARRY KREPPS, Lewistown, Pa. Filed Jan. 11, 1919. Serial No. 270,685. 3 Claims. (Cl. 77—58.)



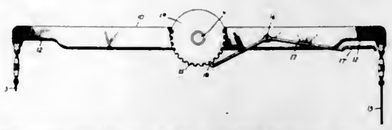
1. A boring head comprising a plurality of abutments, each abutment being recessed, the rear wall of the recess having a radial groove therein; an adjusting block having a tongue adapted to the groove, said block having therein a groove at right angles to the first named groove; a cutter having a tongue adapted to the second named groove; and a clamp plate arranged to clamp the cutter and the block to the abutment.

1,341,566. CLUTCH-CONTROL LEVER. COREY LEACH, Capac, Mich. Filed July 24, 1919. Serial No. 313,091. 1 Claim. (Cl. 74—39.)

A device for the purpose set forth comprising a lever provided with a rearwardly projecting arm having a laterally extending lip at its rear end, means for securing said lever upon the frame of a tractor, and a link pivotally attached to the said arm and arranged to be engaged by said lip and operatively connecting the said arm with the clutch-controlling element of the tractor.



1,341,567. RUDDER-BAR FOR AEROPLANES. WILLIAM H. MCMULLEN, Houston, Tex. Filed Sept. 28, 1918. Serial No. 256,086. 1 Claim. (Cl. 244—29.)



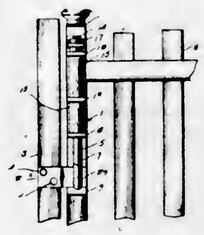
The combination with an airplane steering bar pivotally mounted intermediate its ends upon a stationary pivot and having a toothed disk secured upon said pivot, of a spring controlled locking lever of substantially V-shaped formation and pivotally mounted at the point of the V upon the steering bar, a tooth located at one end of the lever for engagement with the toothed disk and an offset portion located at the opposite end of the lever and forming a foot receiving stirrup.

1,341,568. COMBINATION SUSPENDERS AND BELT. THOMAS H. MCQUINN, Hawthorn, Victoria, Australia. Filed June 4, 1919. Serial No. 301,603. 5 Claims. (Cl. 241—13.)



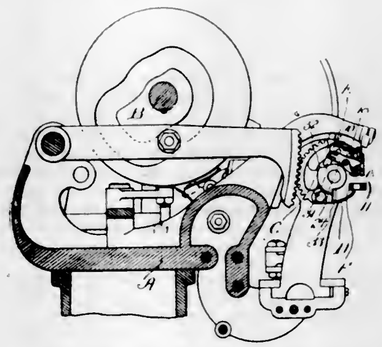
1. A combination suspender and belt comprising shoulder straps, a rear connecting member uniting the rear ends of said shoulder straps whereby they are permitted to be removed into a convergent position for use as a suspender or into alignment for use as a belt, rear tab ends loosely and independently mounted on said member, and a pocket formed in the rear end of each shoulder strap to wholly receive the adjacent tab end when the article is in use as a belt.

1,341,569. GATE-LATCH. LEROY MAGEE, Collins, Miss. Filed Aug. 8, 1919. Serial No. 316,157. 3 Claims. (Cl. 292—189.)



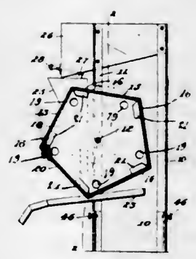
1. In a gate latch of the class described, a keeper including a supporting bracket, a U-shaped member slidably mounted in said bracket, means for limiting the downward movement of said U-shaped member, the bight portion of said U-shaped member being inclined downwardly and forwardly toward one end thereof, as and for the purpose specified.

1,341,570. SHOE-SEWING-MACHINE ATTACHMENT. ANDERS G. MALMBERG, Austin, Tex. Filed Oct. 9, 1918. Serial No. 257,480. 4 Claims. (Cl. 112—45.)



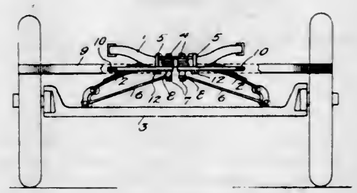
1. An attachment for sole stitching machines comprising a presser foot, a cutter carried thereby for forming a channel in the sole before the stitching operation and automatic means for rendering the cutter active and inactive as the machine operates.

1,341,571. GRADING OR SEPARATING MACHINE. SYLVESTER MARSHALL, Athens, Ohio. Filed May 20, 1919. Serial No. 298,441. 10 Claims. (Cl. 130—16.)



8. A grader or separator comprising a drum, pockets arranged in series within said drum, a plate near one end of the drum and constituting one wall of a feed compartment, the said plate having openings near the outer edge thereof and adjacent to the said pockets, and means for intermittently rotating said drum, the said drum being at rest when said openings arrive successively at the lowest point in the rotation of the drum.

1,341,572. BUMPER. WILLIAM H. MOORE, JR., Little Rock, Ark. Filed Oct. 25, 1919. Serial No. 333,238. 3 Claims. (Cl. 293—55.)



3. In combination with an automobile having its front spring formed of two sections, a bolt and clip connecting the upper end of each section with the frame, a bumper comprising a pair of arms, each arm having a pair of spaced openings therein for receiving the lower ends of said bolts and clips and a short spacer engaging each bolt and located between the bottom of the spring and the arm.

1,341,573. RAIL-JOINT. EDGAR F. MORRIS, Pittsburgh, Pa. Filed Mar. 6, 1920. Serial No. 363,657. 2 Claims. (Cl. 238—256.)



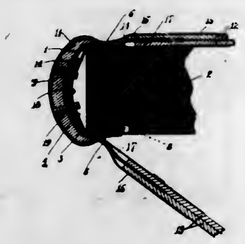
1. In combination with two adjacent rail sections and a tie positioned beneath the same; plates at the opposite sides of the rail sections and provided on their inner faces with laterally projecting fingers, each of said plates being further provided with openings positioned to receive the fingers of the other plate and the web portions of the rail sections being provided with openings positioned to receive said fingers, the fingers of each of said plates being of a length to extend through the openings in the webs and the other plate and to project beyond the outer face of said other plate, and means for securing the fingers to the tie and for forcing said plates toward each other so as to clamp the rail sections.

1,341,574. TYPE-TIE. JOSEF MÜLLER, Frauenfeld, Switzerland. Filed Dec. 28, 1918. Serial No. 268,695. 2 Claims. (Cl. 101—404.)



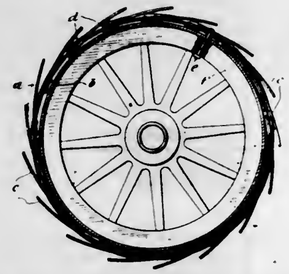
1. In a printer's device of the character described, in combination, a lock plate adapted to serve also as line spacer and intended to be placed alongside of the set-up matter, a flexible member adapted to be flexed about the set-up matter, and means for operatively connecting the two extremities of said flexible member to said lock plate said means consisting of a cut out portion in the lock plate formed with teeth and a member at each end of said flexible member adapted to fit the cut out portion of the lock member and engage with the teeth of said lock member.

1,341,575. BOOKBINDING. JOHN M. MYERS, Woodcliff Lake, N. J. Filed Mar. 3, 1915. Serial No. 11,714. 14 Claims. (Cl. 281—25.)



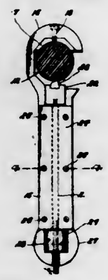
1. The method of binding sheets which comprises inserting the back edges of a set of sheets between the flanges of a metal binding piece having outwardly flaring side flanges, pressing and bending said flanges toward and against the sheets to clamp the sheets together, passing rivets through said flanges and through perforations in the sheets, and deforming the rivets to hold the flanges against the sheets.

1,341,576. SPRING-TIRE FOR VEHICLE-WHEELS. ALLEN B. NIX, near Howard, Kans. Filed Oct. 15, 1918. Serial No. 258,308. 1 Claim. (Cl. 152—8.)



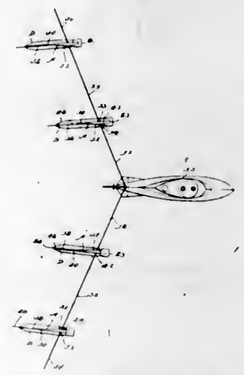
In combination with a felly of a vehicle wheel and a flanged rim thereon; of a tire constructed of a plurality of leaf spring members each embodying an arched portion having an offset end and the offset end of each leaf spring underlying the arched portion of the adjacent spring and secured thereto and means passing through the arched portions of one pair of underlying and overlying springs for securing the tire to the rim and felly.

1,341,577. CRANK-PIN-REFINISHING TOOL. SCIOTA A. NONSUCH, Philadelphia, Pa. Filed Sept. 22, 1919. Serial No. 325,367. 2 Claims. (Cl. 82—4.)



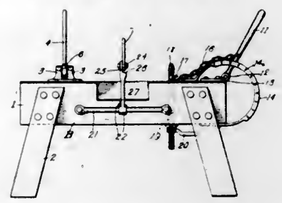
1. A crankpin re-finishing tool comprising a body formed to provide a shank and a head with the shank having a longitudinal groove therein and the head formed with a recessed portion, a bearing plate disposed in the recessed portion of the head, an operating rod in grooved portion of the shank, a tool holder movably mounted on the head and operable by the said operating rod and a tool carried by the holder to engage the crankpin accommodated to the bearing plate in the head.

1,341,578. TOWING MINES. JOHN P. NORDELL, New York, N. Y. Filed Apr. 21, 1917. Serial No. 163,672. 4 Claims. (Cl. 114—240.)



1. A torpedo and mine defense comprising a towing vessel, towing cables extending laterally therefrom, floats connected with the cables and each comprising a body portion with one vertical flat side and having its opposite substantially vertical side deflected outwardly with reference to the main axis of the float and rearwardly of its nose portion, for maintaining the float in the course defined by the towing vessel, when the cables are taut, and explosive devices supported from the floats.

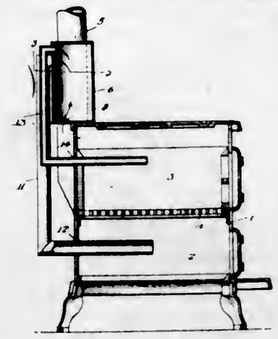
1,341,579. WIRE-CABLE-SPLICING MACHINE. JOHN OLSON, Hoquiam, Wash. Filed Aug. 30, 1919. Serial No. 320,824. 6 Claims. (Cl. 28—21.)



1. A cable splicing machine comprising means for holding the bight of the cable so that the loosened strands lie adjacent to the opened cable body; and means comprising a lever slidably adjustable relative to the cable and having gripping members for drawing the strand ends through the opening in the cable.

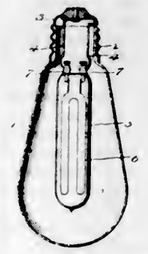
1,341,580. HEATER. EDGAR J. PELTON, Ilion, N. Y. Filed Nov. 12, 1918. Serial No. 262,167. 1 Claim. (Cl. 126—77.)

The combination with a stove and its fire pot and a stove pipe at the rear connected with the combustion chamber, of a heating drum mounted on the top of the stove at its rear and adjacent to the stove pipe and projecting over the edge of the stove top and having an air inlet opening in its bottom and adjacent to said edge, and a recess in one side fitting against the stove pipe, and a pair of pipes extending outside of the stove, and connected at their upper end to the heating drum, the lower end of one of said pipes projecting and discharging into



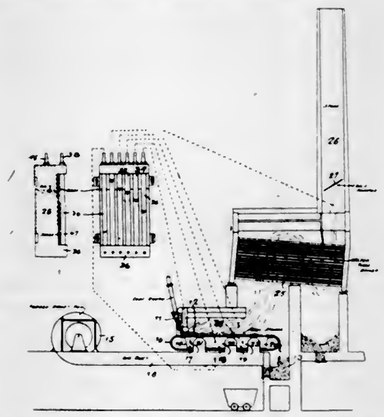
the ash pit, and the lower end of the other pipe projecting and discharging into the fire pot, whereby heated air is fed beneath the grate, and also above the fuel for the purpose set forth.

1,341,581. ELECTRIC INCANDESCENT LAMP. FRANK WILLIAM PETERSON, Peoria, Ill. Filed Feb. 4, 1919. Serial No. 274,835. 2 Claims. (Cl. 176—16.)



1. An electric lamp of the class described, comprising a vacuum globe having a filament therein, an outer globe for containing the vacuum globe, said outer globe having a screw-threaded neck, a screw-threaded socket engaging cap engaging said neck and a pair of conductor strips connecting the cap with the vacuum globe.

1,341,582. MULTIPLE DRAFT AND PRESSURE GAGE. FRANK G. PHILO, Elmhurst, N. Y. Filed May 31, 1919. Serial No. 301,067. 4 Claims. (Cl. 73—31.)



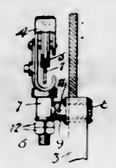
1. A multiple gage comprising a liquid reservoir and a plurality of gage glasses communicating with said reservoir, together with means for connecting said gage glasses independently with different sources of pressure to be measured.

1,341,583. DOOR-LATCH AND CONTROLLING DEVICE FOR COMBINED HINGE AND SLIDE DOORS. THOMAS V. PLICE, Ashland, Ohio, assignor to The Topping Manufacturing Company, Ashland, Ohio, a Corporation of Ohio. Filed Dec. 30, 1919. Serial No. 348,357. 11 Claims. (Cl. 292—136.)



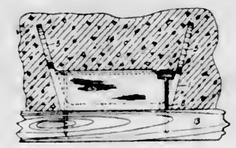
1. In a door locking mechanism, two complementary latchable frames, a horizontally positioned tongue carried by one frame, jaws on the other frame forming a socket for the tongue, and a horizontally pivoted latch member carried by said other frame for detachably engaging said tongue, said tongue operating to lift said latch upon a door closing movement.

1,341,584. DOOR-HANGER. THOMAS V. PLICE, Ashland, Ohio, assignor to The Topping Manufacturing Co., Ashland, Ohio, a Corporation of Ohio. Filed Feb. 12, 1920. Serial No. 358,036. 2 Claims. (Cl. 16—7.)



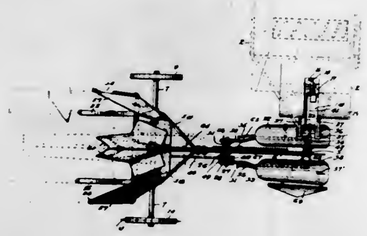
1. A swivel door hanger comprising a frame for carrying an anti-friction roller, a bracket comprising a sleeve in which the frame is swiveled and adjustable vertically, and a base having a socket and an offset arm carried by said sleeve and adjustable laterally, said arm being reversible in said socket, with means for locking the said parts of the bracket together rigidly in various positions of adjustment.

1,341,585. MEANS FOR SUSPENDING FASTENING ELEMENTS FROM CONCRETE. JOHN G. POOL, Dayton, Ohio. Filed Sept. 26, 1919. Serial No. 326,607. 2 Claims. (Cl. 72—105.)



2. A device for suspending fastening elements from concrete, comprising a hollow cradle-shaped member adapted to be embedded in the concrete, a ledge formed on the top interior portion of said member, a pair of diagonally opposite horizontal ears projecting outwardly from said ledge, with which they are integral, a cover adapted to rest upon said ledge, and a pair of diagonally opposite ears on said cover, adapted to rest upon the ears on said ledge, each pair of superimposed ears containing registering holes that receive a fastening element adapted to be passed into a form for the concrete, firmly to hold the cradle-shaped member thereto while the concrete is being poured and also to hold the cover firmly on the ledge.

1,341,586. SHOCKER. JAMES HENRY PRALL, Innes, Saskatchewan, Canada, assignor of one-half to George Innes, Philadelphia, Pa. Filed Oct. 16, 1916. Serial No. 125,964. 15 Claims. (Cl. 56—417.)



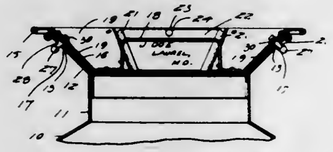
1. The combination, with a binder, of a shocker frame connected therewith, a plurality of bundle pans positioned to receive successive bundles from the binder, the pan remote from the binder receiving the first bundle, means for temporarily separating the remote pan from the adjacent pan, a shocker basket, and means for inverting the bundle pans to deposit the bundles therein.

1,341,587. RAILROAD-TIE. EDWARD A. PRIEST, Trenton, N. J. Filed Aug. 5, 1919. Serial No. 315,455. 7 Claims. (Cl. 238—30.)



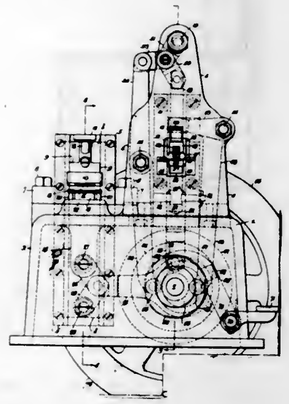
1. A rail tie including a base having dove-tail openings extending out through its ends and top, cushion blocks detachably arranged in said openings and extending above the base, said blocks having their outer end portions flush with the ends of the base, locking plates abutting the ends of said cushion blocks and the ends of the tie, U-shaped clamps pivoted to opposite sides of the base and extending over the locking plates, and means to retain said U-shaped clamps in contact with said locking plates.

1,341,588. COMBINATION LID-FASTENER AND CARD-HOLDER. GEORGE H. PROFFITT, Wichita, Kans. Filed Nov. 5, 1919. Serial No. 335,856. 4 Claims. (Cl. 220—55.)



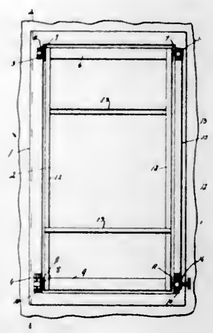
1. The combination with a receptacle having a neck terminating in a flared mouth and a cover fitting within the flared mouth, the cover and mouth being provided with registering openings, of plates connected with the cover and having bearings positioned adjacent the openings in the cover, pivot pins carried by the bearings, latches having shanks mounted upon the pivot pins and extending through the openings of the cover and flared mouth and terminating in an enlarged head, and means carried by the mouth for engaging the shank.

1,341,589. PLATE-FORMING MACHINE. MARTIN O. REHFUSS, Philadelphia, Pa., assignor to John Wanamaker, Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1917. Serial No. 205,518. 4 Claims. (Cl. 164—19.)



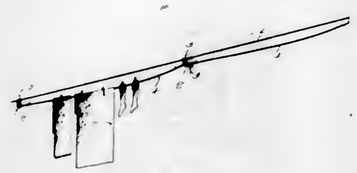
1. The combination in a press, of a supporting frame having a top with an opening therein; a vertical guide fixed in said opening and extending for a substantial distance above and below the same so as to form a continuous long bearing; a substantially rectangular plate slidable in said guide and extending above and below the top and operating through the opening thereof, said plate having a laterally projecting arm at the upper end; a shaft journaled in the frame; a toggle having links one pivotally connected to the lower end of the plate; and another connected to a fixed part of the frame; means connecting the shaft and the toggle for actuating the latter; and co-acting dies, one on the frame and the other on said laterally projecting arm.

1,341,590. WINDOW CLEANER AND WIPER. ELBERT EDGAR RICKS, Philadelphia, Pa. Filed Nov. 18, 1919. Serial No. 338,880. 1 Claim. (Cl. 15—59.)



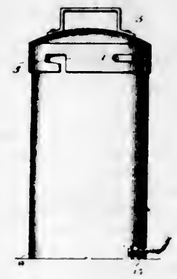
A window cleaner and wiper for a window including a sash and the pane, comprising upper and lower spindles journaled on the outside of the sash, rollers on the spindles, continuous wiper belts passing over the rollers and having wipers attached thereto, pulleys on the spindles, pulleys mounted on the inner side of the sash and a continuous actuating belt passing over the said pulleys to have portions lie on the inside and outside of the sash whereby the device can be actuated.

1,341,591. CLOTHESLINE. IDA RUDOLPH, Otisco, Minn. Filed June 19, 1919. Serial No. 305,378. 1 Claim. (Cl. 68—3.)



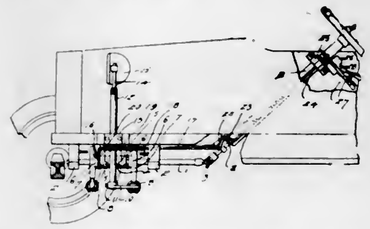
In a device of the class described, the combination of a main supporting line, closed rings disposed at intervals upon said line and depending therefrom, knots tied in said line and twined about said rings to non-slidably fasten the latter to said line, and an auxiliary line substantially equal in length to the intervals between said rings and having snap hooks at its ends for detachable connection to the adjacent rings.

1,341,592. POPCORN-HEATER. LOUIS H. RUEHLE, Emmetsburg, Iowa. Filed Dec. 20, 1918. Serial No. 267,853. 2 Claims. (Cl. 220—40.)



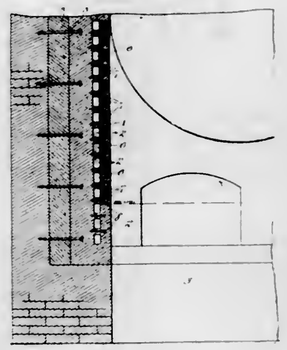
1. In a pop corn heater, the combination of a container having lugs, a detachable cover therefor having bayonet slots with wedged faces to engage said lugs, a packing ring within said cover adapted to bear against the top edge of the container to form an air tight joint, a locking hook pivotally carried by said cover and adapted to engage one of said lugs to lock the cover against uncoupling movement, and a handle for said cover.

1,341,593. DIRIGIBLE LIGHT. WILLIAM M. SCHAFER, Jadwin, Mo. Filed Aug. 30, 1919. Serial No. 320,779. 3 Claims. (Cl. 240—62.)



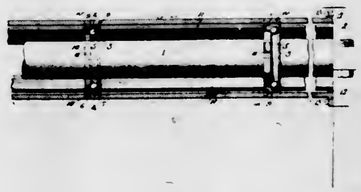
1. The combination with the steering shaft of an automobile steering gear, of an operating shaft connected to said steering shaft for turning movement therewith, lamp standards rockably mounted at opposite sides of said operating shaft, sleeves loosely mounted on the operating shaft and provided with outwardly projecting arms, connections between said arms and the standards for turning the standards in the direction in which the operating shaft is turned when the arms are operatively connected to said shaft, and means for optionally connecting said sleeves to the shaft for turning movement therewith.

1,341,594. FURNACE CONSTRUCTION. HENRY A. SCHWEYER, Norristown, Pa., assignor to Samuel H. Mensch, Pottstown, Pa. Filed Feb. 26, 1916. Serial No. 80,727. 2 Claims. (Cl. 110—75.)



1. In a furnace construction, a retaining wall and a lining for said wall embodying plastic fire clay and carborundum, and a filler interposed between said wall and lining and of relatively small heat conducting capacity as compared with the lining, said lining being provided with chambered portions, and with openings leading from the fire box of the furnace to the chambers, said chambers including a plurality of passageways extending in two directions and upwardly inclined with reference to the base portion of the wall, said passageways intersecting and being provided with baffle members therebetween, deflecting the air currents.

1,341,595. SHAFT-GUARD. ARTHUR G. SCISM, High Point, N. C., assignor of one-half to James R. Cocks, High Point, N. C. Filed Aug. 15, 1919. Serial No. 317,769. 4 Claims. (Cl. 64—12.)

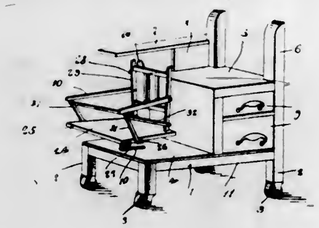


1. A shaft guard comprising antifriction members each having a part fast to the shaft and another part encircling the first part, and strips carried by the second part in circumferentially spaced relation, said second part being held against rotation and the first part of the antifriction members being made fast to the shaft to rotate therewith.

1,341,596. CHAIR. OSCAR A. SHAW, Atlanta, Ga. Filed Sept. 5, 1919. Serial No. 321,808. 4 Claims. (Cl. 155—130.)

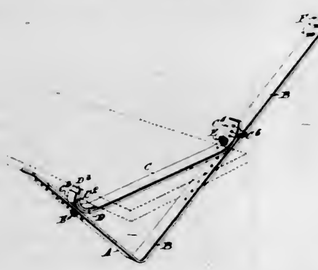
1. A device of the class described comprising a frame, a carriage slidable in the frame, a vertically adjustable

standard in the carriage, a seat at the upper end of the standard, studs extending outwardly from the side edges of the seat, a back, arms extending forwardly from the back, standards connected to the forward ends of the arms



and being attached to the studs to allow the back to be swung toward the forward edge of the seat and into a horizontal position and hooks attached to the side edges of the seat adjacent its forward edge for supporting the back in a horizontal position.

1,341,597. ADJUSTABLE ROOF-BRACKET. JAY B. F. SHOWALTER, Pekin, Ill. Filed Dec. 7, 1918. Serial No. 265,692. 6 Claims. (Cl. 304—20.)



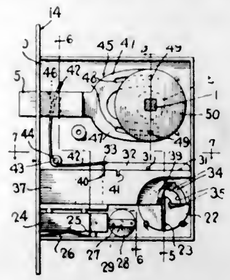
1. An adjustable roof bracket comprising a right angled body or supporting member having a long leg and a short leg, said legs having bolt holes correspondingly spaced from the corner of the body member, and a movable brace member having curved ends in engagement with the respective legs and adjustably bolted thereto by bolts passing through said curved ends and through the leg apertures, and means for anchoring the long legs of the body member to the roof.

1,341,598. PROCESS AND PRODUCT OF MAKING FERTILIZER MATERIAL. PHILIP MCG. SHUEY, Savannah, Ga., assignor of one-fourth to Savannah Chemical Company, a Corporation of Georgia, and one-fourth to F. I. Gibson, Savannah, Ga. Filed Nov. 2, 1918. Serial No. 260,906. 20 Claims. (Cl. 71—9.)

1. In the manufacture of fertilizer material, the mixing of molten niter-cake, phosphate-bearing material, and organic nitrogenous material.

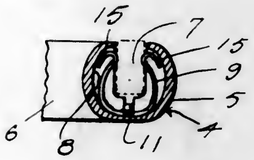
1,341,599. DOOR-LOCK. SAMUEL C. SIGMAN, Gladwin, Mich. Filed Oct. 21, 1918. Serial No. 259,040. 5 Claims. (Cl. 70—29.)

1. In a door lock, slotted revoluble disks opposite the key openings therein, a plate in the casing having a notch receiving the disk, staggered pins projecting from said plate one of which being of a greater length than the others, a spring influenced tumbler pivotally arranged on one of the pins and limited in its movement by the remaining pins, notched guard plates interchangeably supported by the pins, a slidable bolt contacting with the



longer pin and engaged by the tumbler, and a ledge in the casing providing a support for the lower edge of the bolt.

1,341,600. FASTENER. HARRY O. SMITH, Kansas City, Mo. Filed Nov. 15, 1919. Serial No. 338,241. 5 Claims. (Cl. 24—217.)

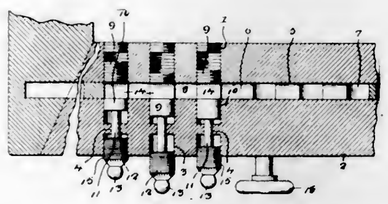


1. A fastener including a hollow female member having a groove in its inner wall and a male member, and a spring formed from a single length of resilient material bent into substantially horseshoe shape and located in the groove of the female member and adapted to grip the male member, and means securing the spring in the groove.

1,341,601. PURIFICATION OF ZINC SOLUTIONS. HENRY LIVINGSTONE SULMAN and SAMUEL FIELD, London, England, assignors to The Metals Extraction Corporation, Limited, London, England. Filed May 12, 1919. Serial No. 296,552. 4 Claims. (Cl. 75—18.)

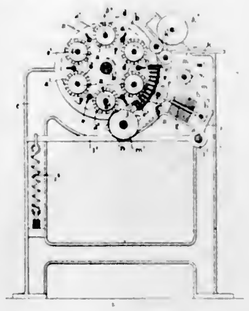
1. A process for the purification of zinc solutions from nickel, which consists in treating the solution, freed from iron, arsenic, antimony, copper and cadmium, with finely divided zinc with application of heat.

1,341,602. LOCK. HJALMER A. SWENSON, Brooklyn, N. Y. Filed Jan. 9, 1920. Serial No. 350,390. 3 Claims. (Cl. 70—54.)



1. A lock of the class described comprising a bolt having holes and slots therein, a plurality of plugs having restricted parts thereon for fitting said slots, said plugs also having screw threaded portions for engaging screw threaded parts in the lock and handle parts projecting from the lock.

1,341,603. MACHINE FOR BREAKING, SOFTENING, AND SCUTCHING FIBROUS STOCK. PAUL EUGÈNE GASTON SWYNGHEDAUW, Charenton, France. Filed Aug. 22, 1919. Serial No. 319,220. 6 Claims. (Cl. 13—18.)



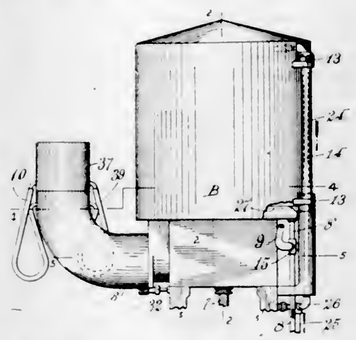
1. A machine for breaking, softening and scutching fibrous stock, comprising cylinders rotatably mounted about parallel axes, means for rotating said cylinders, blades arranged along the generatrices of said cylinders, a table having a surface parallel to the plane of rolling of said blades, fixed blades on said table with the same spacing as that of the blades of the rotary cylinders, means for feeding the fibrous stock to be treated between the blades of the rotary cylinders and the blades of the table, and means for disengaging the treated fibrous stock from the blades of the table as it advances.

1,341,604. NUT-LOCK. ANDREW F. THOMPSON, Wellington, Kans. Filed Feb. 6, 1920. Serial No. 356,646. 3 Claims. (Cl. 151—2.)



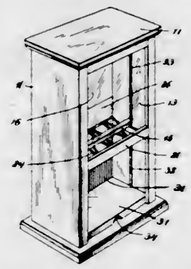
3. In combination, a bolt having its end portion squared, a nut threaded upon the bolt and having a portion of its bore squared and having openings, and locking members disposed between the squared end of the bolt and the walls of the squared bore of the nut and having outwardly springing tongues engageable within said openings.

1,341,605. COOLING APPARATUS FOR LARD-DISPENSING MACHINES. HARRY W. WILLIAMS, Dayton, Ohio, assignor to The Superior Tool Company, Dayton, Ohio. Filed Mar. 25, 1918. Serial No. 224,602. 8 Claims. (Cl. 257—211.)



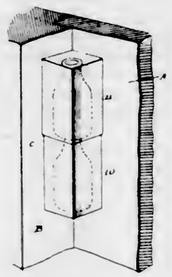
2. A means for maintaining the lard in a lard dispensing machine in a proper condition to be intermittently discharged therefrom, comprising a hood consisting of two hinged parts which inclose a lard container, said hood so constructed having a series of inter-communicating water circulating passages throughout the interior thereof, a main water inlet pipe communicating with the initial passages in said hood, and an exhaust pipe communicating with the final water passages of said hood.

1,341,606. ICE-CREAM-CONE DISPENSER. HAROLD G. WILSON, Titusville, Fla. Filed Jan. 6, 1920. Serial No. 349,668. 3 Claims. (Cl. 211—8.)



3. In an ice cream cone dispensing apparatus two vertically disposed communicating compartments, the upper compartment having cones therein, the lower compartment having an opening to permit of the removal of the cones, elastic means between the compartments supporting the cones, a vertically movable plate in the lower compartment, guide means therefor, said plate when moved in an upward direction designed to close the communication between the compartments, and latching means for the plate when the same is in the last mentioned position.

1,341,607. SANITARY MILK-BOTTLE HOLDER. FRANK E. WOCEL, New York, N. Y. Filed Apr. 19, 1919. Serial No. 291,333. 2 Claims. (Cl. 232—42.)

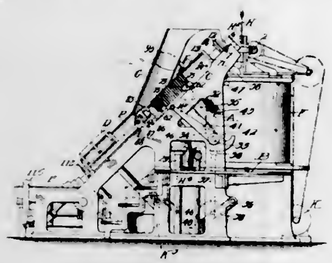


1. A bottle retainer comprising an adjustable casing composed of a plurality of telescopic members, substantially U shaped in cross section, the uppermost member being closed at the top, retaining and locking means pivoted within the lowermost member near its lower end and means for locking the casing in its adjusted positions, said means comprising slotted portions of the members and hooks pivoted relative to said slots, in combination with means adapted to be secured to the frame of the door.

1,341,608. MACHINE FOR CASTING, FINISHING, AND COOLING STEREOTYPE PRINTING-PLATES. HENRY A. WISE WOOD, New York, N. Y., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 17, 1912. Serial No. 726,239. Renewed Oct. 13, 1919. Serial No. 330,520. 37 Claims. (Cl. 22—3.)

9. In a machine for casting curved stereotype printing plates, the combination of a core and back, said core hav-

ing pins projecting therefrom adjacent to the edge of the plate to be cast, whereby the plate will be held on the core as the core turns, means for turning the core, and means for removing the plate from the core radially and tearing it from said pins.



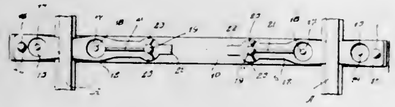
14. In a stereotype plate casting machine, the combination of an inclined fixed shaft, a cylindrical core, thereon, a back movable toward and from the core, said core having teeth longitudinally arranged thereon for casting a rack integrally on a printing plate, means for separating the back from the core, means for turning the plate on the core from the back, means for lifting the plate from the core and leaving it in position to slide down the incline, and means adjacent to the discharge end of the casting device for engaging said rack on the plate and retarding the movement of the plate down the incline.

20. In a machine for casting curved stereotype printing plates, the combination of an inclined run-way, a casting box arranged along the run-way and having means for casting a printing plate with a rack extending therealong, a toothed wheel mounted to freely rotate in bearings in position to engage the teeth of said rack as the plate descends along the run-way from the casting box, a friction plate adapted to engage said wheel for retarding the rotation thereof, a lever connected with said friction plate, and hand-operated means for regulating the amount of friction between said plate and wheel.

24. In a machine for producing stereotype printing plates, the combination of an inclined casting mechanism, with a finishing mechanism located in alinement therewith and in position to receive a plate directly therefrom.

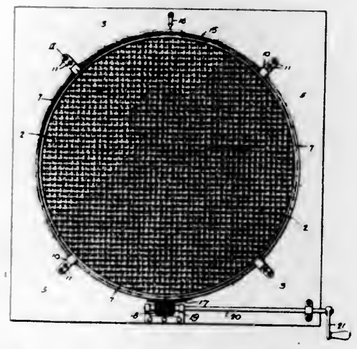
34. In a machine for casting stereotype printing plates, the combination with a melting pot and a casting box for receiving molten metal therefrom, of means for delivering the cast plate from the casting box, means for cutting the tail therefrom, means for receiving the tail at the side of the cutting means, and a conveyer movable in a direction transverse to the direction of the plate through the last named means and into position to engage the tail and move it into a position over the melting pot.

1,341,609. METAL TIE AND RAIL-FASTENER. ROBERT H. WORRELL, Statesburg, W. Va. Filed Feb. 3, 1920. Serial No. 355,942. 3 Claims. (Cl. 238—343.)



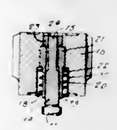
2. In combination, a tie, rails seating upon the tie, and rail fastening means carried by the tie and including a pair of plate members pivoted on the tie outwardly of the rails and each having one end engaging the base of a rail, mating depressions formed in the outer ends of said plates and the ties beneath said plates, and a pair of rail engaging members pivoted upon the tie inwardly of the rails, each of said last named members including an elongated plate having one end engageable with the base of a rail and the other ends of said second named members and the tie therebeneath being formed with mating depressions.

1,341,610. PHOTO-ENGRAVER'S SCREEN. ANTONIO J. ARATA, Philadelphia, Pa., assignor to Charles J. Ross Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1919. Serial No. 344,251. 16 Claims. (Cl. 95—81.)



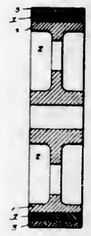
1. In a photo-engravers' screen, the combination of a plurality of lined transparent members, a support for the same, and means for obtaining relative movement between said members.

1,341,611. SWITCH-HANDLE. HARRY U. BADEAU, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 9, 1918. Serial No. 227,540. 3 Claims. (Cl. 200—172.)



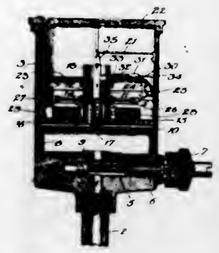
1. In an electric switch, a rotary switch spindle having at one end threaded portions of different pitch, a switch handle screwing on one of said portions and a lock nut screwing on the portion of less pitch and bearing against said handle to hold the same against reverse rotation.

1,341,612. COVER FOR ROLLERS AND METHOD OF APPLYING SAME. WILLIAM H. BOLDUC, Chester, Pa., assignor to Diamond State Fibre Company, Bridgeport, Pa., a Corporation of Delaware. Filed Oct. 30, 1918. Serial No. 260,364. 8 Claims. (Cl. 154—2.)



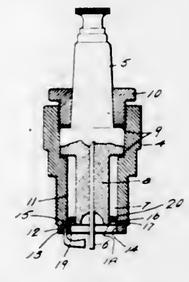
1. A draft roll consisting of a body portion; a primary covering of parchmentized fiber thereon; and a secondary cover of leather mounted on said fiber covering.

1,341,613. TIRE-ALARM. HAROLD BROWN, Dacoma, Okla. Filed Apr. 23, 1919. Serial No. 292,171. 7 Claims. (Cl. 116—34.)



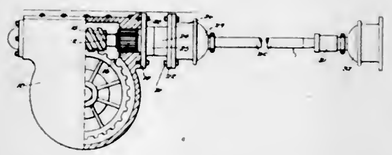
2. A tire attachment comprising an audible alarm, a pressure indicator, means for injecting air into said tire, and a common housing for all said means.

1,341,614. SPARK-PLUG. FREDERICK HACHMANN, St Louis, Mo., assignor of one-half to David M. Hutchinson, Ferguson, Mo., one-sixteenth to Monte G. Price, Effingham, Ill., one-sixteenth to Chauncey R. Watson and one-sixteenth to Philip E. Moody, Detroit, Mich. Filed Sept. 22, 1919. Serial No. 325,488. 4 Claims. (Cl. 123—169.)



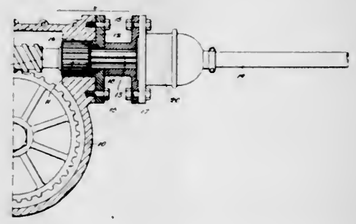
1. In a spark plug comprising a casing, a porcelain insulator secured within said casing, said insulator and casing having vertical parallel walls forming a chamber, an aluminum cleaning ring provided with downwardly projecting flanges interposed between the insulator and the casing, said flanges acting as a scraper for the walls of the insulator and casing.

1,341,615. PROPULSION CONNECTION FOR MOTOR-VEHICLES. WILLIAM F. HUDSON, Philadelphia, Pa., assignor to Hudson Motor Specialties Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,395. 12 Claims. (Cl. 64—89.)



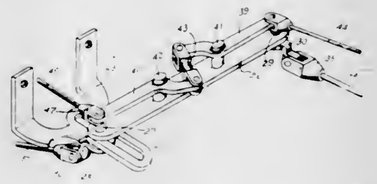
1. In a construction of the character stated a worm and its complemental shaft, a housing therefor having an opening through which said shaft projects, a bearing for said shaft fitted within said opening, propelling means, a disk-like plate fixed to said housing said plate being provided with annular flanges one of which is fitted within said opening, a bearing in said plate in which bearing a part of the projected shaft end is rotatable and a disk-like plate fixed to said propelling means for coöperatively engaging the remaining part of said shaft for causing the propelling means and worm to rotate in unison the last mentioned plate having an annular flange in abutting relation with the outermost flange of the first mentioned plate.

1,341,616. PROPULSION CONNECTION FOR MOTOR-VEHICLES. WILLIAM F. HUDSON, Philadelphia, Pa., assignor to Hudson Motor Specialties Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,425. 2 Claims. (Cl. 74—36.)



1. In a construction of the character stated a worm and its complemental shaft, a housing therefor said shaft being projected therethrough, a bearing for said shaft mounted in said housing a member provided with a sleeve for co-actively engaging over a portion of the projected end of said shaft so as to rotate in unison therewith, a dust-guard interposed between said housing and the free end of said sleeve, and propelling means fixed to said member.

1,341,617. EQUALIZING DEVICE FOR TRAILER-BRAKES. EDWARD F. KELLEY, Stratford, Conn., assignor to The Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 9, 1919. Serial No. 343,492. 9 Claims. (Cl. 188—204.)



1. An equalizing device for trailer brakes comprising a bracket having a slot, a stud adapted to slide in said slot, an equalizing bar pivoted on said stud, bell crank levers pivoted on said bar, and a link connecting the contiguous ends of said levers, the other arms of said levers being adapted for connection respectively to the brakes of a truck and the brakes of a trailer, and the ends of the equalizing bar being adapted for connection respectively to a truck chassis and a trailer chassis.

1,341,618. ARTIFICIAL BAIT. HARRY L. MEDLEY, Los Angeles, Calif. Filed Feb. 18, 1919. Serial No. 277,867. 2 Claims. (Cl. 43—46.)

1. In an artificial bait the combination with a fish like body having a downwardly and rearwardly beveled rear

end, of a triangular guiding plate having its narrower end secured to the beveled end of the body member to



lie in a plane parallel therewith and having the corners of its free end bent to extend downwardly at a right angle.

1,341,619. EXTERNAL IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. HERMAN SCHLAICH, Brooklyn, N. Y. Filed Feb. 19, 1919. Serial No. 277,984. 7 Claims. (Cl. 175—116.)



1. The combination of an internal combustion engine, an igniter for the fuel therein, means for conducting electric current to said igniter, means associated with said conducting means for producing ignition effects externally of said engine, and a removable torch comprising an inflammable element to be ignited by said means.

1,341,620. AUTOMOBILE-LIFTER. WILLIAM J. SEAS, Baltimore, Md., assignor to William W. Leister, Quakertown, Pa. Filed May 9, 1919. Serial No. 295,887. 7 Claims. (Cl. 254—88.)



1. A device of the class described, comprising a portable truck provided with front and rear supporting wheels, and a frame mounted on said truck and having side bars formed of hingedly connected sections disposed in angular relation to each other, said side bars being adapted to engage the wheels of the truck thereby to cause movement of the frame with relation to said truck.

1,341,621. AUTOMOBILE-LIFTER. WILLIAM J. SEAS, Baltimore, Md., assignor to William W. Leister, Quakertown, Pa. Filed July 23, 1919. Serial No. 312,826. 5 Claims. (Cl. 254—88.)



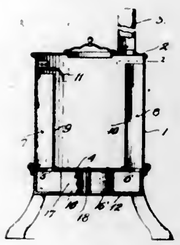
3. A lifting device comprising a longitudinally movable lifting frame having inclines, a supporting frame having rolling supports engageable by the inclines, front and rear vehicle axle seats on the lifting frame, the rear seat being pivoted to swing in a vertical plane and occupying a tilted position when the lifting frame is in lowered position, and a lever pivoted to the lifting frame and engageable with the seat for swinging the same to erect position, said lever being intercepted by one of the rolling supports and actuated thereby when the lifting frame moves in a direction to rise.

1,341,622. QUICK-BREAK SWITCH. ALEXANDER K. SUTHERLAND, New Britain, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Nov. 11, 1918. Serial No. 262,002. 6 Claims. (Cl. 200—73.)



4. In an electric switch, a stationary contact, a post, a blade hinged to said post and adapted to engage said contact, a swinging operating arm and a slotted link connecting said blade and said arm formed of two pieces of insulating fiber with the blade secured between the same, and a spring for moving said blade in one direction with a snap action.

1,341,623. STOVE. CLEVELAND G. TERRY, Los Angeles, Calif. Filed Dec. 30, 1918. Serial No. 268,814. 3 Claims. (Cl. 126—58.)



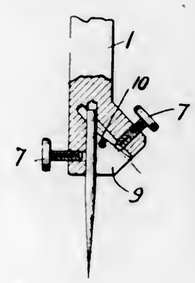
1. A stove comprising a closed body having a stove pipe and a bottom provided with oppositely disposed inlets, said body provided with oppositely disposed air vents in communication with said inlets and extending to near the top of and having free communication with the interior of the stove body, one of said vents disposed approximately in line with but spaced from said stove pipe, and means to regulate the supply of air to both said air vents or positively to prevent the passage of air to one of said vents while permitting it to the other.

1,341,624. TOY AEROPLANE. ALFRED E. WERNER, Philadelphia, Pa. Filed Aug. 14, 1919. Serial No. 317,446. 2 Claims. (Cl. 244—12.)



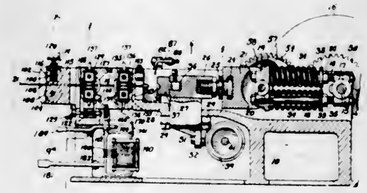
1. In a toy aeroplane the device for adjusting the angle of the vertical direction plane and for forming a hook consisting of the combination with a flat faced stick forming the body of the plane, of a wire passing through the stick at an intermediate position, said wire having its upper portion bent to form an incline and an end anchor in the stick and its lower portion bent to form a length lying in contact with the stick and terminating in a hook, and a wire band passing around the stick and the lower portion of the wire lying in contact with the stick.

1,341,625. TALKING-MACHINE STYLUS-ARM. FREDERICK ADAMS, Philadelphia, Pa., assignor to the Perfek'tone Corporation, Philadelphia, Pa., a Corporation of Maryland. Filed June 11, 1919. Serial No. 303,421. 1 Claim. (Cl. 274—37.)



A talking machine stylus arm provided at its free end with a pair of needle holes in inclined relation, in combination with a movable clamping element common to both holes and mounted on the arm, and means for operating the clamping element for coaction with each hole, substantially as described.

1,341,626. PROCESS AND MACHINE FOR MAKING CERTAIN ARTICLES OF MANUFACTURE. FRANK P. KOBERT, Amityville, N. Y. Filed Nov. 18, 1916, Serial No. 132,003. Renewed Feb. 11, 1920. Serial No. 358,003. 12 Claims. (Cl. 219—4.)

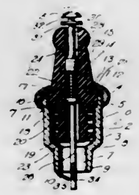


1. A machine of the class described provided with a work piece holder die, means for automatically feeding material into said holder die, means for electrically heating the material as it is fed into said die, and means for automatically shutting off the supply of heat on the stoppage of the machine.

REISSUES.

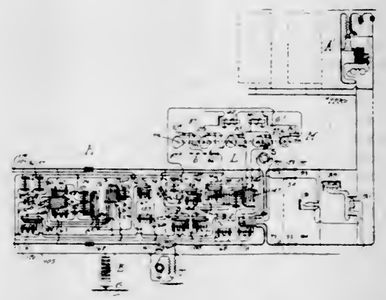
14,862. SPARK-PLUG. CHARLES HUGH DUFFY, Chevy Chase, Md. Filed Mar. 13, 1920. Serial No. 365,642. Original No. 1,190,130, dated July 4, 1916, Serial No. 704,502, filed Jan. 6, 1913. 14 Claims. (Cl. 123—169.)

1. A spark-plug comprising an insulating core, a metal shell and a plurality of electrodes including a central one, said electrodes being separated to provide a spark gap, the said metal shell being provided with an enlarged upper chamber and a smaller lower chamber, the said insulating core being of greater diameter than the said lower chamber and extending into said metal shell providing an annular space between the outer surface of the insulating core and the inner surface of the wall of said enlarged upper chamber, the said insulating core being provided within said upper enlarged chamber with a plurality of deep and relatively narrow annular chambers one above the other, the lower central portion of said insulating core being provided with a relatively large longitudinal bore, the wall of which surrounds but is out of contact with the central



electrode of the plug, said longitudinal bore crossing the planes of the annular chambers, the outer portion of the insulating core being provided with a relatively large central longitudinal bore, the wall of which surrounds but is out of contact with the upper portion of the central electrode in such manner that the central electrode is out of contact with the top and outer surface of the insulating core, one of said electrodes being provided at the spark gap with a capillary slot or cut open at the side of the electrode to exert a capillary attraction for liquid bridging the spark gap.

14,863. CODE-RINGING TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1920. Serial No. 362,031. Original No. 1,202,555, dated Oct. 24, 1916, Serial No. 652,781, filed Oct. 4, 1911. 60 Claims. (Cl. 179—17.)



1. In a telephone system, a party line, a plurality of substations on said line, a plurality of switching devices each of which is operable to automatically predetermine a code signal, mechanism common to said switching devices for signaling said stations according to the predetermined code, and automatic means to insure that the code is always applied to the line at the beginning.

2. In a telephone system, party lines, a plurality of signals on each of said lines at the substations, a source of ringing current, a plurality of switching devices each operable to connect said source with any one of said lines, whereby a plurality of said lines may be signaled at the same time, a common mechanism for controlling the application of said source of connected lines in accordance with predetermined codes, and automatic means to insure

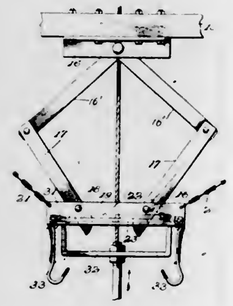
that the said source is applied to each line at the beginning of the code.

3. In a telephone system, a party-line, a plurality of signals on said line, a source of ringing current, a relay for connecting said ringing current with the line, and a plurality of interrupters for controlling said relay according to a predetermined code.

4. In a telephone system, a party-line, a source of ringing current, a relay for connecting said source with said line, a plurality of interrupters for controlling the relay according to a predetermined code, and a step-by-step-operated device for connecting the relay with any desired interrupter.

5. In a telephone system, a party-line, a plurality of signals on said line, automatically-controlled means for operating said signals according to a predetermined code, and means for rendering said operating means inoperative except at the beginning of the code series.

14,864. SAFETY DEVICE FOR MINE-CAGES. SLAVE PESKOLICH, Butte, Mont. Filed Apr. 21, 1920. Serial No. 375,906. Original No. 1,334,116, dated Mar. 16, 1920, Serial No. 315,943, filed Aug. 7, 1919. 6 Claims. (Cl. 187—72.)



1. Means for severing the hoisting cable of an elevator including a frame, cutting means slidably mounted on said frame, levers carried by said frame and adapted to actuate said cutting means, and means for actuating said levers.

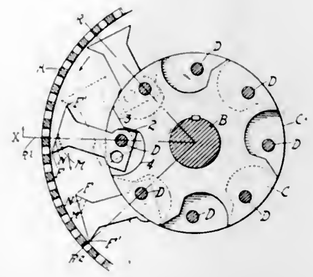
2. Means for severing the hoisting cable of an elevator including a movable frame, cutting means carried by said frame and movable relatively thereto, and levers actuated by the movement of said frame to effect relative movement of said cutting means, in combination with means carried by said elevator for moving said frame.

3. Means for severing the hoisting cable of an elevator including a movable frame, a support therefor, cutting means carried by said frame and movable relatively thereto, pairs of levers each pivotally connected at one end to said frame and adapted to actuate said cutting means, a fixed support, and means interposed between said fixed support and said levers for actuating the latter, in combination with means for moving said frame.

4. Means for severing the hoisting cable of an elevator including a movable frame through which said cable passes, a support for said frame, cutting blades slidably mounted in said frame, levers carried by said frame and adapted to actuate said cutting blades, and means for actuating said levers.

5. Means for severing the hoisting cable of an elevator including a movable frame through which said cable passes, said frame comprising spaced apart side bars having horizontally disposed grooves on their opposed faces, a cross piece connecting said bars, cutting blades spanning the space between said bars and slidable in the grooves thereof, levers pivotally connected at one end to said frame and adapted to actuate said cutting blades, a fixed support, and links connecting the opposite ends of said levers with said fixed support, in combination with means for moving said frame.

14,865. ROTARY HAMMER. HAROLD M. PLAISTED, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 13, 1919. Serial No. 344,674. Original No. 1,281,829, dated Oct. 15, 1918, Serial No. 237,907, filed June 3, 1918. 8 Claims. (Cl. 83—11.)



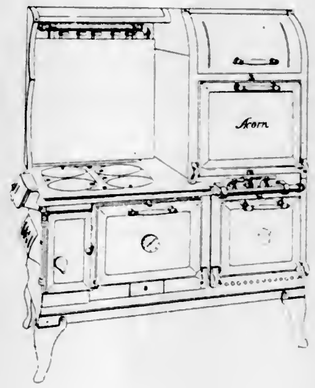
1. A rotary hammer comprising a flat bar shank provided with an operative edge at one end on each side of the central line of the shank, and having pivot holes located on opposite sides of said line near the other end.

14,866. DESIGN FOR A COMBINATION COAL AND GAS RANGE. JOHN J. TOOMEY, Chicago, Ill., assignor to Rathbone, Sard & Co., Albany, N. Y., a Corporation of New York. Filed Apr. 2, 1920. Serial No. 370,902. Term of patent 14 years. Original No. 54,479, dated Feb. 10, 1920, Serial No. 231,042, filed Apr. 26, 1918, for 14 years.



The ornamental design for a combination coal and gas range as shown.

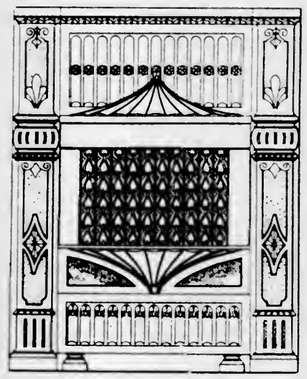
14,867. DESIGN FOR A COMBINATION COAL AND GAS RANGE. JOHN J. TOOMEY, Chicago, Ill., assignor to Rathbone, Sard & Co., Albany, N. Y., a Corporation of New York. Filed Apr. 2, 1920. Serial No. 370,903. Term of patent 14 years. Original No. 54,480, dated Feb. 10, 1920, Serial No. 231,043, filed Apr. 26, 1918, for 14 years.



The ornamental design for a combination coal and gas range as shown.

DESIGNS.

55,228. FIREPLACE-GRATE. JULIUS F. ADAMS, Pittsburgh, Pa. Filed Sept. 27, 1919. Serial No. 326,994. Term of patent 7 years.



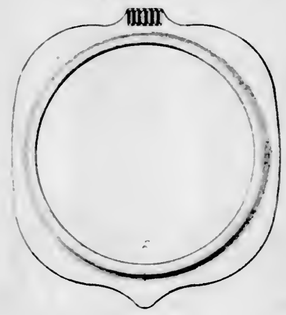
The ornamental design for a fireplace grate, as shown.

55,229. BUTTON, BADGE, OR SIMILAR ARTICLE. JULIUS AISENSTEIN, New York, N. Y. Filed Jan. 10, 1919. Serial No. 270,593. Term of patent 3½ years.



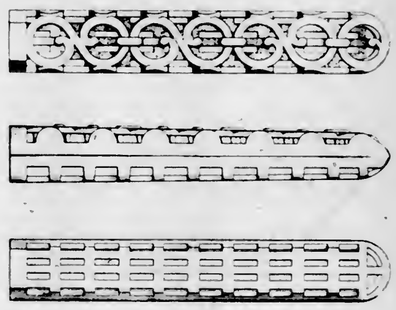
The ornamental design for a button, badge, or similar article, as shown.

55,230. BEZEL. ARTHUR S. ALEXANDER, New York, N. Y., assignor to J. Alexander Manufacturing Company, a Corporation of New York. Filed Sept. 19, 1919. Serial No. 325,023. Term of patent 14 years.



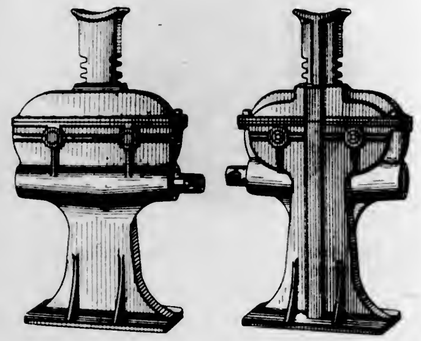
The ornamental design for a bezel, substantially as shown.

55,231. GAS-STOVE RADIANT. WILLIAM D. ANTRIM, Gloucester City, N. J., assignor to Welsbach Company, Gloucester City, N. J., a Corporation of New Jersey. Filed June 25, 1919. Serial No. 306,745. Term of patent 14 years.



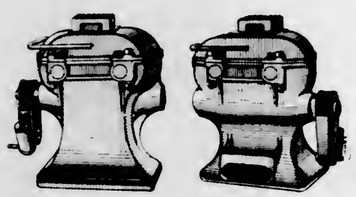
The ornamental design for a gas stove radiant, as shown.

55,232. LIFTING-JACK. EDWIN E. ARNOLD, Pittsburgh, Pa., assignor to Iron City Products Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1919. Serial No. 337,265. Term of patent 14 years.



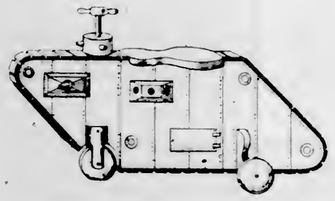
The ornamental design for a lifting jack, substantially as shown.

55,233. LIFTING-JACK. EDWIN E. ARNOLD, Pittsburgh, Pa., assignor to Iron City Products Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1919. Serial No. 337,266. Term of patent 14 years.



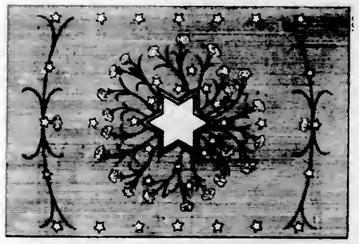
The ornamental design for a lifting jack, substantially as shown.

55,234. CHILD'S RIDING-CAR. CLIFFORD A. BARDEN, Wakeman, Ohio. Filed June 30, 1919. Serial No. 307,856. Term of patent 7 years.



The ornamental design for a child's riding car, as shown.

55,235. FLAG, BANNER, PENNANT, EMBLEM, OR ARTICLE OF SIMILAR NATURE. ANNA R. W. BASSETT, Norwood, Pa. Filed Mar. 7, 1919. Serial No. 282,459. Term of patent 14 years.



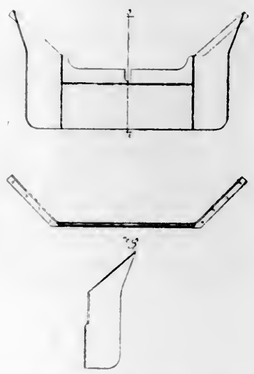
The ornamental design for a flag, banner, pennant, emblem, or article of similar nature, as shown.

55,236. TIRE-TREAD. GEORGE EDWARDS BENNIE, Nashville, Tenn. Filed Jan. 23, 1920. Serial No. 353,582. Term of patent 7 years.



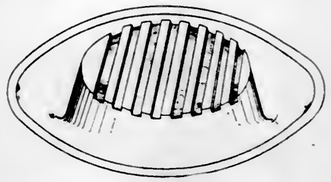
The ornamental design for a tire tread as shown.

55,237. FENDER FOR AUTOMOBILES. HARRISON L. BERG, Everett, Mass. Filed Nov. 21, 1919. Serial No. 339,736. Term of patent 7 years.



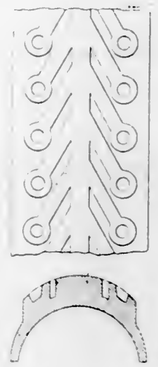
The ornamental design for a fender for automobiles, as shown.

55,238. CARVING-DISH. GEORGE HENRY BERWICK, Hampstead, England. Filed Dec. 16, 1918. Serial No. 267,057. Term of patent 7 years.



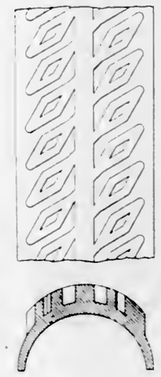
The ornamental design for a carving dish, as shown.

55,239. VEHICLE-TIRE. ARTHUR L. BREITENSTEIN, Akron, Ohio., assignor to The Ashland Tire & Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 4, 1919. Serial No. 342,558. Term of patent 7 years.



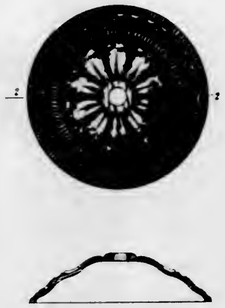
The ornamental design for a vehicle tire, as shown.

55,240. VEHICLE-TIRE. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to The Ashland Tire & Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 4, 1919. Serial No. 342,559. Term of patent 7 years.



The ornamental design for a vehicle tire as shown.

55,241. ELECTRIC-CHANDELIER TOP. CHARLES BRESLOFF, New York, N. Y. Filed Mar. 12, 1920. Serial No. 365,348. Term of patent 14 years.



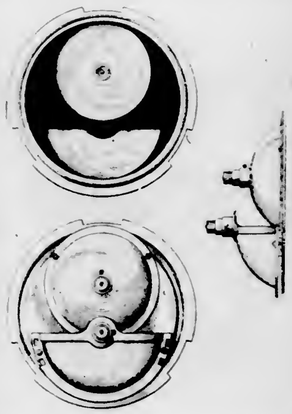
A new and ornamental design for an electric chandelier top substantially as shown.

55,242. ELECTRIC-CHANDELIER ARM. CHARLES BRESLOFF, New York, N. Y. Filed Mar. 12, 1920. Serial No. 365,349. Term of patent 14 years.



A new and ornamental design for an electric chandelier arm substantially as shown.

55,243. REPLACEMENT UNIT FOR HEADLIGHTS. HERBERT W. BROWN, Ashland, Ohio. Filed Dec. 23, 1919. Serial No. 347,019. Term of patent 14 years.



The ornamental design for a replacement unit for headlights, substantially as shown.

55,244. WOMAN'S OR MISS'S COSTUME. HELEN MARTHA BUCK, New York, N. Y., assignor to The Camp Fire Girls, Inc., a Corporation of New York. Filed June 30, 1917. Serial No. 178,040. Term of patent 3½ years.



The design for a woman's or miss's costume shown in the accompanying drawing.

55,245. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,672. Term of patent 3½ years.

The ornamental design for a textile fabric, as shown.

55,246. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,619. Term of patent 3½ years.



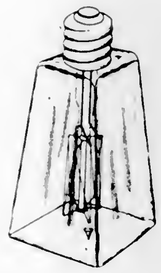
The ornamental design for a textile fabric, as shown.

55,247. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,620. Term of patent 3½ years.



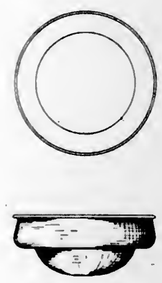
The ornamental design for a textile fabric, as shown.

55,248. ELECTRIC-LAMP BULB. OTIS W. COOK, Monett, Mo. Filed Feb. 13, 1920. Serial No. 358,400. Term of patent 14 years.



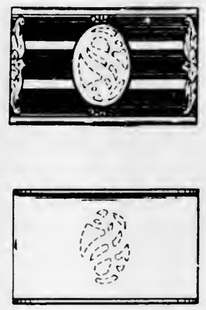
The ornamental design for an electric lamp bulb, as shown.

55,249. BOWL FOR LIGHTING-FIXTURES. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Sept. 19, 1919. Serial No. 325,029. Term of patent 7 years.



The ornamental design for a bowl for lighting fixtures, as shown.

55,250. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation. Filed Dec. 4, 1919. Serial No. 342,550. Term of patent 7 years.



The ornamental design for a belt buckle frame, as shown and described.

55,251. TEXTILE FABRIC. HARRY F. DOMMENGE, Jr., New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 12, 1919. Serial No. 310,484. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,252. BADGE, BUTTON, OR SIMILAR ARTICLE. JOHN DRAKE, West Orange, N. J. Filed Dec. 20, 1918. Serial No. 267,716. Term of patent 14 years.



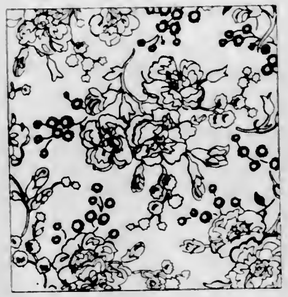
The ornamental design for a badge, button, or similar article, as shown.

55,253. ADAPTER-HEAD FOR FLASH-LIGHTS. RICHARD MAX EATON, Niagara Falls, N. Y. Filed Mar. 18, 1920. Serial No. 366,987. Term of patent 7 years.



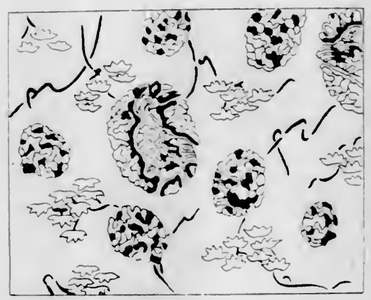
The ornamental design for an adapter head for flash lights, as shown.

55,254. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,126. Term of patent 3½ years.



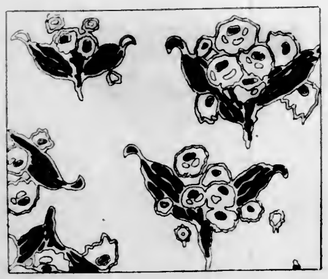
The ornamental design for a textile fabric as shown.

55,255. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,617. Term of patent 3½ years.



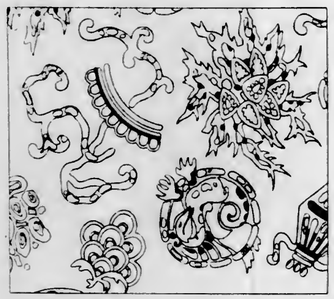
The ornamental design for a textile fabrice as shown.

55,256. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,618. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,257. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,197. Term of patent 3½ years.



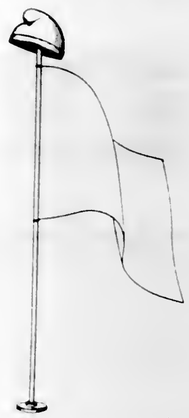
The ornamental design for a textile fabric, as shown.

55,258. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanne Silk Mills, New York, N., Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,198. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,259. AUTOMOBILE-RADIATOR ORNAMENT. EINAR P. EKMAN, Chicago, Ill. Filed Aug. 17, 1918. Serial No. 250,405. Term of patent 3½ years.



The ornamental design for an automobile radiator ornament, as shown.

55,260. GEM-SETTING. WILLIAM FISCHER, New York, N. Y. Filed Dec. 29, 1919. Serial No. 348,191. Term of patent 3½ years.



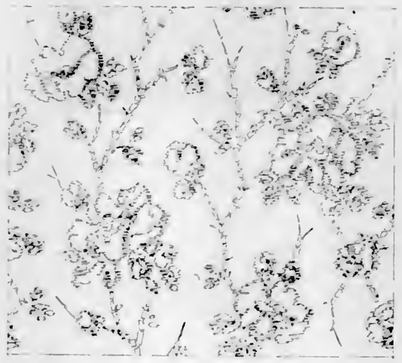
The ornamental design for a gem setting, as shown.

55,261. ARTICLE OF MANUFACTURE. ADDISON FLINT, Hempstead, N. Y., assignor to Burton Bros. & Co., New York, N. Y., a Firm. Filed Nov. 19, 1919. Serial No. 339,201. Term of patent 3½ years.



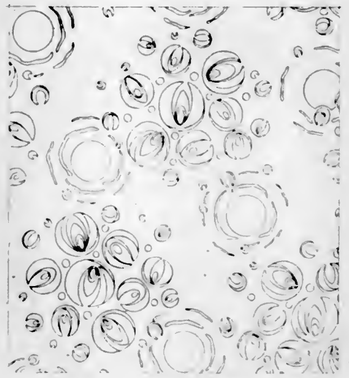
The ornamental design for an article of manufacture substantially as shown.

55,262. ARTICLE OF MANUFACTURE. ADDISON FLINT, Hempstead, N. Y., assignor to Burton Bros. & Co., New York, N. Y., a Firm. Filed Nov. 19, 1919. Serial No. 339,202. Term of patent 3½ years.



The ornamental design for an article of manufacture substantially as shown.

55,263. ARTICLE OF MANUFACTURE. ADDISON FLINT, Hempstead, N. Y., assignor to Burton Bros. & Co., New York, N. Y., a Firm. Filed Nov. 19, 1919. Serial No. 339,203. Term of patent 3½ years.



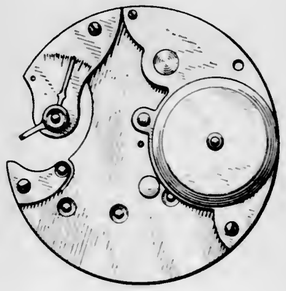
The ornamental design for an article of manufacture substantially as shown.

55,264. HANDLE FOR UMBRELLAS OR PARASOLS. WILLIS M. FOLLMER, New York, N. Y. Filed Dec. 3, 1919. Serial No. 342,274. Term of patent 7 years.



The ornamental design for a handle for umbrellas or parasols, substantially as shown and described.

55,265. TOP PLATE FOR WATCH-MOVEMENTS. ALEXANDER FRIEDMAN, Pittsburgh, Pa., assignor to Pennsy Watch Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Sept. 3, 1919. Serial No. 321,471. Term of patent 7 years.



The ornamental design for a top plate for watch movements, substantially as shown.

55,266. CARD-HOLDER. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 18, 1919. Serial No. 331,720. Term of patent 7 years.



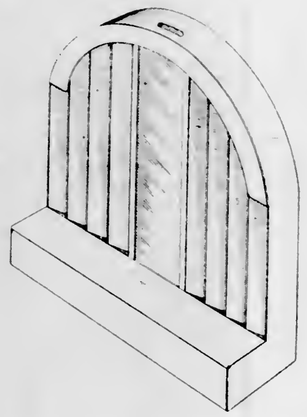
The ornamental design for a card holder, as shown.

55,267. FONT OF TYPE. FREDERICK W. GOUDY, Forest Hills Gardens, N. Y., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 2, 1919. Serial No. 342,040. Term of patent 14 years.

ABCDEFGHIJKLMNOP
QRSTUVWXYZ&
$1234567890
abcdefghijklmnopqrstu
vwxyz ,;:.-'!? fiffflffiffl

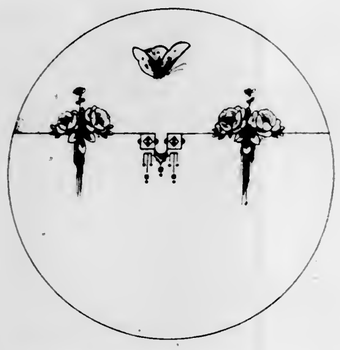
The ornamental design for a font of type shown in the accompanying drawing.

55,268. CASING FOR A VENDING-MACHINE. FRANK R. GREENE, Chicago, Ill. Filed Mar. 24, 1919. Serial No. 284,881. Term of patent 14 years.



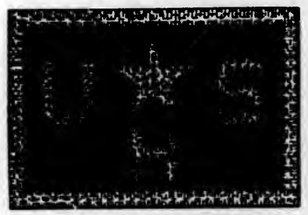
The ornamental design for a casing for a vending machine as shown.

55,269. PLATE OR SIMILAR ARTICLE. JOSEPH GUNTHER, Kansas City, Mo. Filed Feb. 18, 1918. Serial No. 218,007. Term of patent 3½ years.



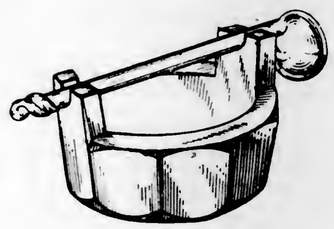
The ornamental design for a plate or similar article as shown.

55,270. HERO SERVICE PIN, BADGE, OR SIMILAR ARTICLE. NORAH HANSON, Sharon, N. D. Filed Feb. 25, 1919. Serial No. 279,193. Term of patent 3½ years.



The ornamental design for a pin, badge, or similar article, as shown and described.

55,271. SALTCELLAR. JULIUS HIRSCH, Brooklyn, N. Y. Filed Feb. 24, 1920. Serial No. 361,003. Term of patent 3½ years.



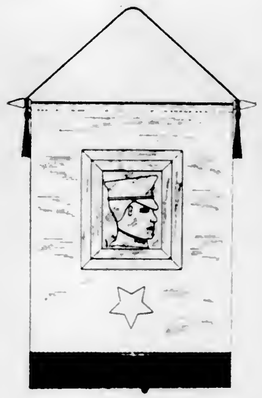
The ornamental design for a saltcellar, as shown.

55,272. PLATE OR SIMILAR ARTICLE. JULIAN HOLLAND, New York, N. Y., assignor to Bowman Hotel Corporation, New York, N. Y. Filed Dec. 6, 1919. Serial No. 343,131. Term of patent 7 years.



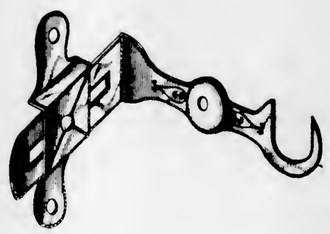
The ornamental design for a plate or similar article, as shown.

55,273. SERVICE-FLAG OR SIMILAR ARTICLE. ARTHUR A. HUEBSCH, Congress Park, Ill. Filed Sept. 19, 1918. Serial No. 254,876. Term of patent 3½ years.



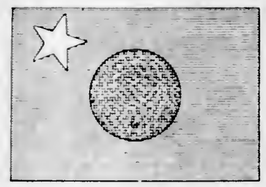
The ornamental design for a service flag or similar article, as shown.

55,274. CURTAIN-POLE AND SHADE BRACKET. CHARLES ANGELO HUSSER, Torrington, Conn. Filed Jan. 3, 1920. Serial No. 349,340. Term of patent 7 years.



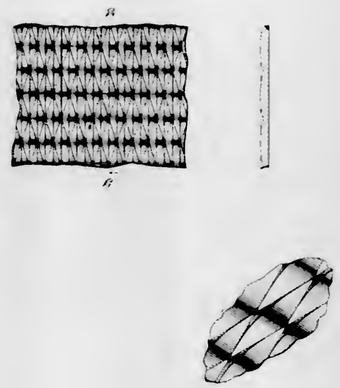
The ornamental design for a curtain pole and shade bracket, as shown.

55,275. FLAG. WILLIAM F. IVY, Rock Island, Ill. Filed Sept. 13, 1919. Serial No. 323,665. Term of patent 3½ years.



The ornamental design for a flag as shown.

55,276. PRISM-GLASS. EMIL GOTTFRIED JOHANSON, Chicago, Ill., assignor to David H. Roblin, Chicago, Ill. Filed Dec. 11, 1916. Serial No. 136,366. Term of patent 7 years.

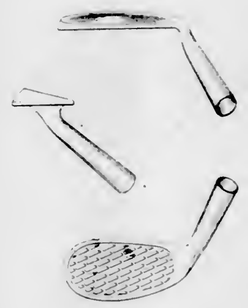


The ornamental design for a prism glass as shown and described.

55,277. WRIST-MIRROR. MARCEL KOMINKIEWICZ, South Omaha, Nebr. Filed Oct. 22, 1919. Serial No. 332,570. Term of patent 3½ years.

The ornamental design for a wrist mirror as shown.

55,278. GOLF-CLUB HEAD. ARTHUR A. KRAEUTER, South Orange, N. J. Filed Jan. 2, 1920. Serial No. 349,071. Term of patent 14 years.



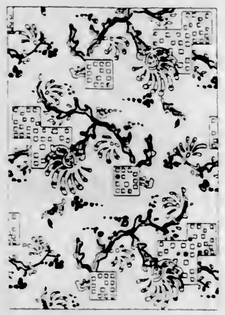
The ornamental design for a golf club head as shown.

55,279. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed June 28, 1919. Serial No. 307,483. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,280. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed June 28, 1919. Serial No. 307,484. Term of patent 3½ years.



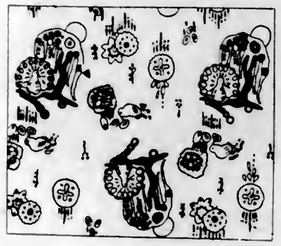
The ornamental design for a textile fabric, as shown.

55,281. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 12, 1919. Serial No. 310,485. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,282. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 12, 1919. Serial No. 310,486. Term of patent 3½ years.

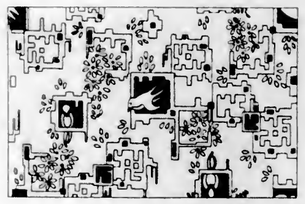


The ornamental design for a textile fabric, as shown.

55,283. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,132. Term of patent 3½ years.

The ornamental design for a textile fabric as shown.

55,284. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,133. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

55,285. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,196. Term of patent 3½ years.



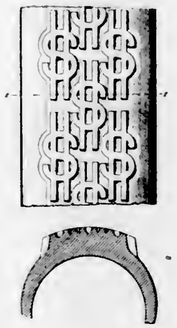
The ornamental design for a textile fabric as shown.

55,286. PENNANT. ARTHUR E. LANGLOIS, New Bedford, Mass. Filed May 2, 1919. Serial No. 294,334. Term of patent 3½ years.



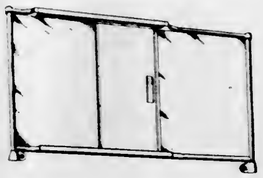
The ornamental design for a pennant as shown.

55,287. TIRE. EMERY LESLIE LAWLOR, Youngstown, Ohio. Filed Oct. 16, 1919. Serial No. 331,186. Term of patent 14 years.



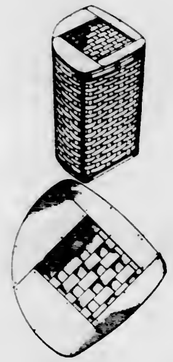
The ornamental design for a tire, as shown.

55,288. WINDSHIELD. ARTHUR C. LILLIE, Los Angeles, Calif. Filed Feb. 16, 1920. Serial No. 359,184. Term of patent 14 years.



The ornamental design for a windshield, as shown.

55,289. CLOTHES-HAMPER. ISADOR E. LOEWENBERG, Converse, Ind. Filed Oct. 9, 1919. Serial No. 329,617. Term of patent 7 years.



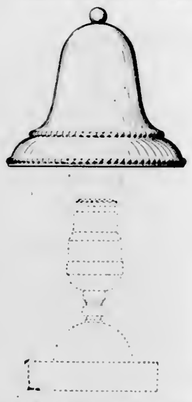
The ornamental design for a clothes hamper, as shown.

55,290. CARBID-LAMP CLEANER. WILLIAM G. LUTTINGER, Morenci, Ariz. Filed Dec. 3, 1919. Serial No. 342,272. Term of patent 7 years.



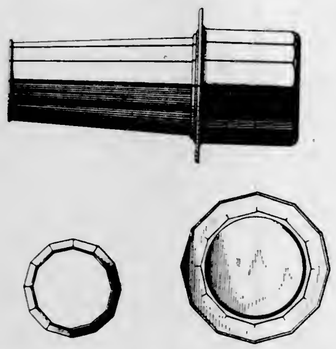
The ornamental design for a carbid lamp cleaner, as shown.

55,291. SHADE FOR ELECTRIC LAMPS. WILLIAM S. MACLEWEE, Trenton, N. J., assignor to Carrie Howell MacLewee, Trenton, N. J. Filed Oct. 25, 1918. Serial No. 259,721. Term of patent 7 years.



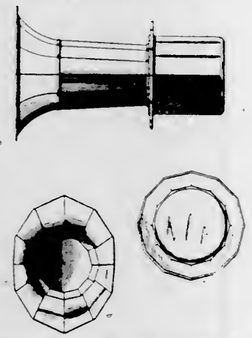
The ornamental design for a shade for electric lamps, as shown.

55,292. AUTOMOBILE-HORN CASING. GERARD R. MARSICO, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No. 361,653. Term of patent 14 years.



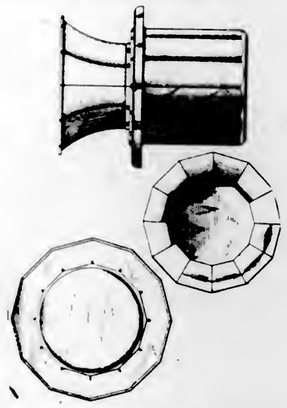
The ornamental design for an automobile horn casing, as shown.

55,293. AUTOMOBILE-HORN CASING. GERARD R. MARSICO, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No 361,654. Term of patent 14 years.



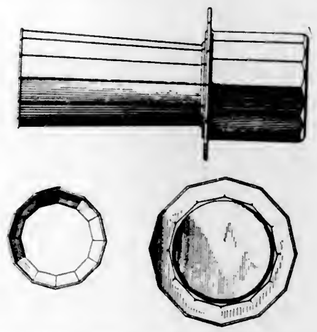
The ornamental design for an automobile horn casing, as shown.

55,294. AUTOMOBILE-HORN CASING. GERARD R. MARSICO, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No. 361,655. Term of patent 14 years.



The ornamental design for an automobile horn casing as shown.

55,295. AUTOMOBILE-HORN CASING. GERARD R. MARSICO, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No. 361,656. Term of patent 14 years.



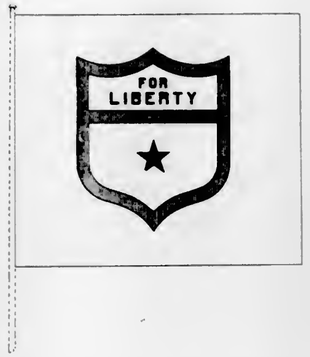
The ornamental design for an automobile horn casing, as shown.

55,296. GLOBE FOR LIGHTING-FIXTURES. FREDERICK W. MATHIEU, New York, N. Y. Filed June 10, 1919. Serial No. 303,239. Term of patent 7 years.



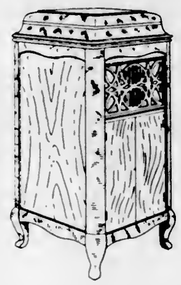
The ornamental design for a globe for lighting fixtures, as shown.

55,297. FLAG, PENNANT, SIGN, EMBLEM, OR ARTICLE OF A SIMILAR NATURE. WILLIAM H. MCMASTERS, Allston, Mass. Filed June 14, 1918. Serial No. 241,092. Term of patent 7 years.



The ornamental design for a flag, pennant, sign, emblem, or article of a similar nature, as shown.

55,298. PHONOGRAPH-CABINET. MELVILLE W. MIX, Mishawaka, Ind. Filed Jan. 31, 1920. Serial No. 355,440½. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

55,299. PAPER-WEIGHT. ALICE NEILSEN, St. Louis Park, Minn. Filed Nov. 3, 1919. Serial No. 335,524. Term of patent 7 years.



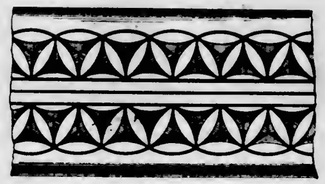
The ornamental design for a paper weight as shown.

55,300. PURSE. CHARLES ARTHUR NICHTHAUSER, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,281. Term of patent 3½ years.



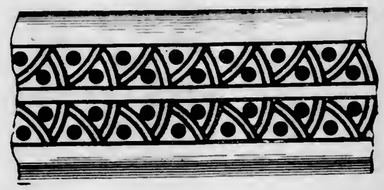
The ornamental design for a purse, as shown.

55,301. AUTOMOBILE-TIRE OR SIMILAR ARTICLE. JOHN J. NOVAK, Omaha, Nebr. Filed Feb. 3, 1920. Serial No. 355,953. Term of patent 7 years.



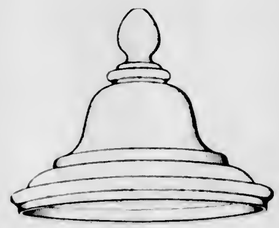
The ornamental design for an automobile tire or similar article, as shown.

55,302. AUTOMOBILE-TIRE AND SIMILAR ARTICLE. JOHN J. NOVAK, Omaha, Nebr. Filed Feb. 3, 1920. Serial No. 355,952. Term of patent 7 years.



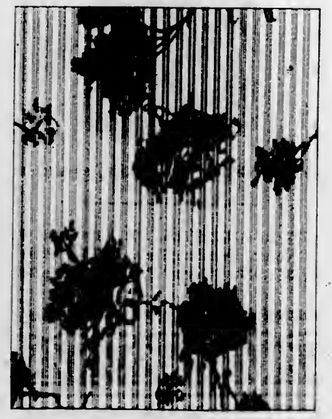
The ornamental design for an automobile tire and similar article, as shown.

55,303. CANOPY FOR A LAMP-GLOBE. JAMES A. O'NEIL, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 11, 1920. Serial No. 365,077. Term of patent 14 years.



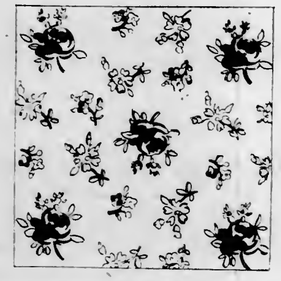
The ornamental design for a canopy for a lamp globe as shown and described.

55,304. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,674. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,305. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,783. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,306. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,139. Term of patent 3½ years.



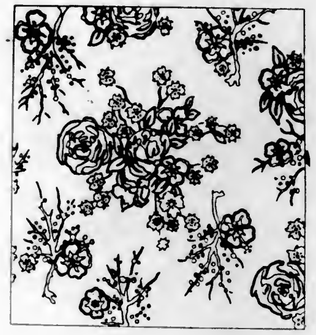
The ornamental design for a textile fabric as shown.

55,307. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,201. Term of patent 3½ years.



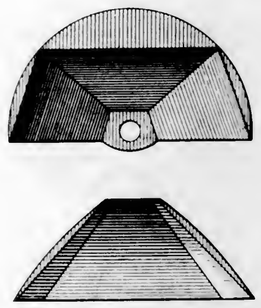
The ornamental design for a textile fabric as shown.

55,308. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 30, 1920. Serial No. 355,202. Term of patent 3½ years.



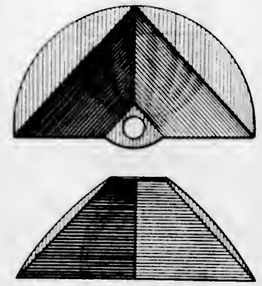
The ornamental design for a textile fabric, as shown.

55,309. LIGHT DIFFUSING AND PROJECTING ATTACHMENT FOR AUTOMOTIVE LAMPS. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,143. Term of patent 14 years.



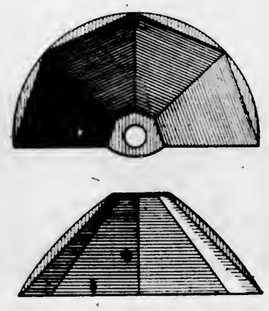
The ornamental design for a light diffusing and projecting attachment for automotive lamps, substantially as shown.

55,310. LIGHT DIFFUSING AND PROJECTING ATTACHMENT FOR AUTOMOTIVE LAMPS. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,144. Term of patent 14 years.



The ornamental design for a light diffusing and projecting attachment for automotive lamps, substantially as shown.

55,311. LIGHT DIFFUSING AND PROJECTING ATTACHMENT FOR AUTOMOTIVE LAMPS. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,145. Term of patent 14 years.



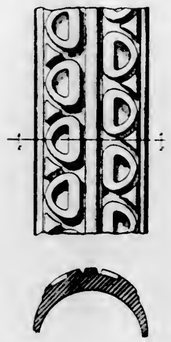
The ornamental design for a light diffusing and projecting attachment for automotive lamps, substantially as shown.

55,312. RADIATOR. ELMER H. OVERSMITH, Buffalo, N. Y., assignor to Buffalo Truck & Tractor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,488. Term of patent 14 years.



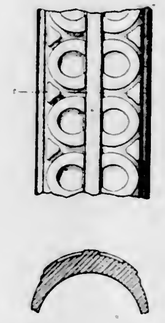
The ornamental design for a radiator, as shown.

55,313. TIRE-CASING. WILLIAM C. OWEN, Cleveland, Ohio. Filed Feb. 5, 1920. Serial No. 356,404. Term of patent 14 years.



The ornamental design for a tire-casing, as shown.

55,314. TIRE-CASING. WILLIAM C. OWEN, Cleveland, Ohio. Filed Feb. 5, 1920. Serial No. 356,405. Term of patent 14 years.



The ornamental design for a tire-casing, as shown.

55,315. TIRE-CASING. WILLIAM C. OWEN, Cleveland, Ohio. Filed Feb. 5, 1920. Serial No. 356,406. Term of patent 14 years.



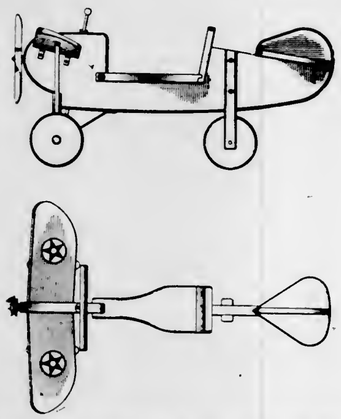
The ornamental design for a tire-casing as shown.

55,316. STATUETTE. ROBERT A. PATTERSON, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 332,120. Term of patent 14 years.



The ornamental design for a statuette, as shown.

55,317. TOY VEHICLE. WALTER R. PEOPLES, Rochester, N. Y. Filed Nov. 5, 1919. Serial No. 335,949. Term of patent 14 years.



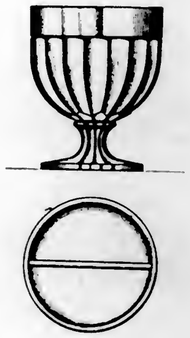
The ornamental design for a toy vehicle, as shown.

55,318. SHOE-SOLE. EARL PHILLIPS, Cleveland, Ohio. Filed Jan. 10, 1920. Serial No. 350,708. Term of patent 7 years.



The ornamental design for a shoe sole as shown.

55,319. COMPARTMENT-JAR. WILLIAM A. REAPER, Monroe, Mich. Filed Mar. 6, 1920. Serial No. 363,834. Term of patent 14 years.



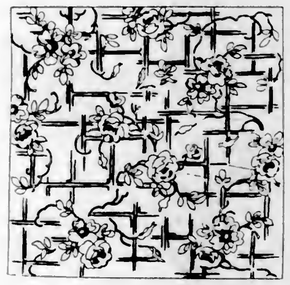
The ornamental design for a compartment jar, as shown.

55,320. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 12, 1919, Serial No. 310,491. Term of patent 3½ years.



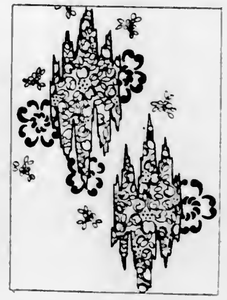
The ornamental design for a textile fabric as shown.

55,321. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,613. Term of patent 3½ years.



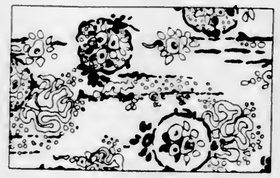
The ornamental design for a textile fabric as shown.

55,322. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,614. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

55,323. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,615. Term of patent 3½ years.



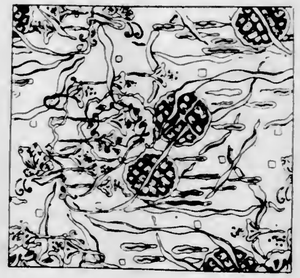
The ornamental design for a textile fabric as shown.

55,324. TEXTILE FABRIC. RUBY LOUISE REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,675. Term of patent 3½ years.



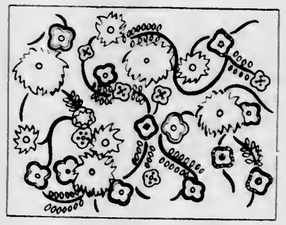
The ornamental design for a textile fabric, as shown.

55,325. TEXTILE FABRIC. RUBY L. REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,134. Term of patent 3½ years.



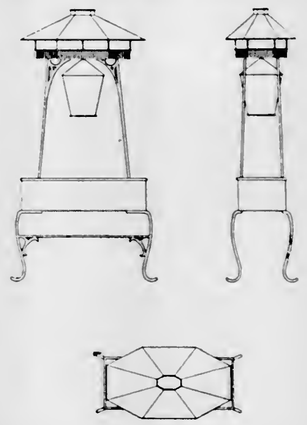
The ornamental design for a textile fabric as shown.

55,326. TEXTILE FABRIC. RUBY L. REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,135. Term of patent 3½ years.



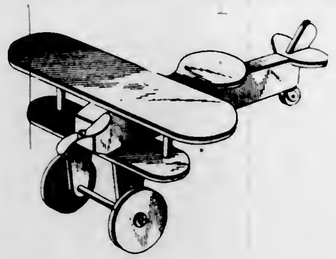
The ornamental design for a textile fabric as shown.

55,327. COMBINATION LAMP-STAND. LOUIS J. RIPICH, Cleveland, Ohio. Filed Dec. 1, 1919. Serial No. 341,816. Term of patent 7 years.



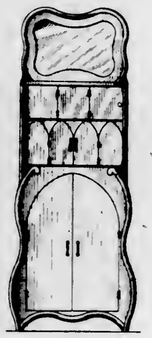
The ornamental design for a combination lamp stand, as shown.

55,328. CHILD'S VEHICLE. CHARLES O. ROBERTS and WILLIAM M. ROBERTS, Ashland, Ohio. Filed Nov. 20, 1919. Serial No. 339,444. Term of patent 3½ years.



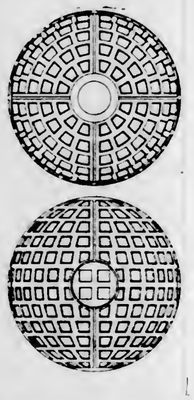
The ornamental design for a child's vehicle, as shown.

55,329. TALKING-MACHINE CABINET. LAFAYETTE ROBERTS, Philadelphia, Pa. Filed Apr. 6, 1920. Serial No. 371,772. Term of patent 7 years.



The ornamental design for a talking machine cabinet, as shown.

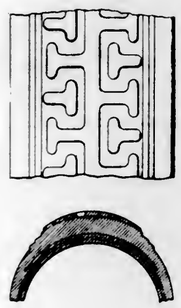
55,330. GOLF-BALL. JOHN C. ROBERTSON, Glasgow, Scotland. Filed Nov. 25, 1919. Serial No. 340,687. Term of patent 7 years.



The ornamental design for a golf ball as shown.

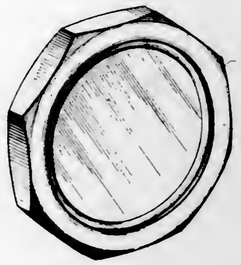
55,331. [WITHDRAWN.]

55,332. VEHICLE-TIRE. GEORGE NOAH SCHELL, Cleveland, Ohio. Filed Nov. 21, 1919. Serial No. 339,735. Term of patent 3½ years.



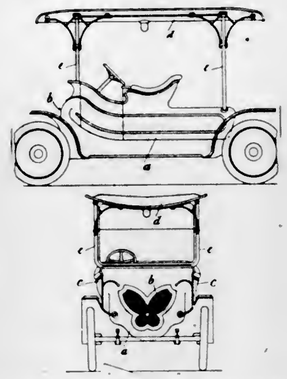
The ornamental design for a vehicle tire, as shown.

55,333. SOUND-REPRODUCER FOR A PHONOGRAPH OR SIMILAR DEVICE. SAMUEL S. SCHIFF, Chicago, Ill., assignor to Vitanola Talking Machine Co., a Corporation of Illinois. Filed Oct. 16, 1919. Serial No. 331,185. Term of patent 7 years.



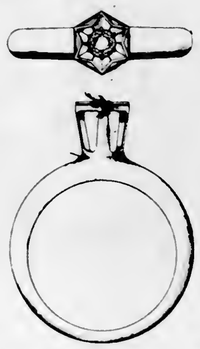
The ornamental design for a sound reproducer for phonograph or similar device, as shown.

55,334. AUTOMOBILE-BODY. CHARLES MARTIN SHAW, Yoker, Scotland. Filed Dec. 30, 1919. Serial No. 348,495. Term of patent 14 years.



The ornamental design for an automobile body, as shown and described.

55,335. FINGER-RING. CHARLES SHEER, Corona, N. Y. Filed Dec. 17, 1919. Serial No. 345,655. Term of patent 14 years.



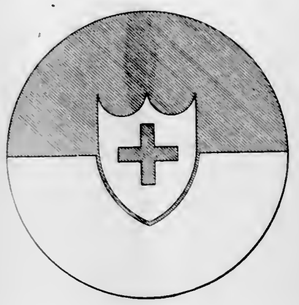
The ornamental design for a finger ring as shown.

55,336. ELECTRIC HEATER. MILTON H. SHOENBERG and GEORGE J. HENRY, San Francisco, Calif., assignors to Majestic Electric Development Company, San Francisco, Calif., a Corporation of California. Filed Sept. 16, 1919. Serial No. 324,253. Term of patent 14 years.



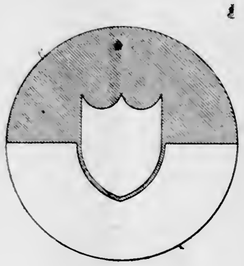
The ornamental design for an electric heater substantially as shown.

55,337. AUTOMOBILE-HEADLIGHT LENS. WILLIAM H. STURGEON, Ben Avon, Pa. Filed Sept. 24, 1919. Serial No. 326,085. Term of patent 3½ years.



The ornamental design for an automobile headlight lens, as shown.

55,338. AUTOMOBILE-HEADLIGHT LENS. WILLIAM H. STURGEON, Ben Avon, Pa. Filed Oct. 11, 1919. Serial No. 330,155. Term of patent 14 years.



The ornamental design for an automobile headlight lens, as shown.

55,339. GLOVE. HARRY A. TAYLOR, New York, N. Y. Filed Sept. 13, 1919. Serial No. 323,664. Term of patent 3½ years.



The ornamental design for a glove, substantially as shown.

55,340. EGG-BEATER. MILTON O. THOMPSON, Boston, Mass., assignor, by mesne assignments, of one-half to Dexter B. Hill, Newton, Mass. Filed May 9, 1919. Serial No. 296,005. Term of patent 7 years.



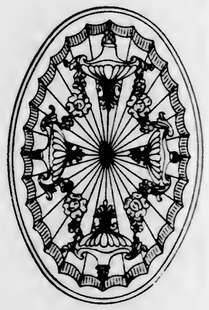
The ornamental design for an egg beater, as shown

55,341. LIGHTING-FIXTURE. ALBERT ULLMAN, Cleveland, Ohio, assignor to Scott-Ullman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 22, 1919. Serial No. 325,582. Term of patent 3½ years.



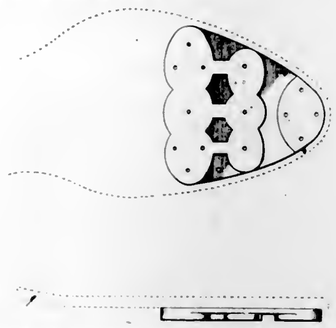
The ornamental design for a lighting fixture, as shown.

55,342. SCONCE FOR A LIGHTING-FIXTURE OR SIMILAR ARTICLE. GUSTAVE J. VESTER, Providence, R. I., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Filed Jan. 19, 1920. Serial No. 352,632. Term of patent 7 years.



The ornamental design for a sconce for a lighting fixture or similar article, as shown.

55,343. CUSHION SOLE-PAD FOR BOOTS AND SHOES. LEO MOTT VAN WAGNER and JOHN A. DUFFY, Far Rockaway, N. Y. Filed Aug. 11, 1919. Serial No. 316,879. Term of patent 3½ years.



The ornamental design for a cushion sole-pad for boots and shoes, as shown.

55,344. BADGE. DAVID E. VICTOR, New York, N. Y., assignor to Association of Army and Navy Stores Inc., New York, N. Y., a Corporation. Filed Mar. 17, 1919. Serial No. 283,275. Term of patent 14 years.



The ornamental design for a badge as shown and described.

55,345. TEXTILE FABRIC FOR DECORATIVE PURPOSES. COULTON WAUGH, New York, N. Y. Filed Oct. 30, 1919. Serial No. 334,544. Term of patent 3½ years.



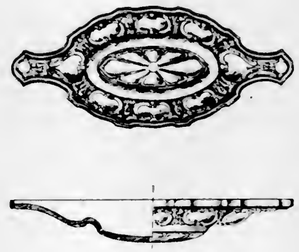
The ornamental design for a textile fabric for decorative purposes, as shown.

55,346. TEXTILE FABRIC FOR DECORATIVE PURPOSES. COULTON WAUGH, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,952. Term of patent 3½ years.



The ornamental design for a textile fabric for decorative purposes, as shown.

55,347. PLATE FOR LIGHTING-FIXTURES. GOTTFRIED WESTPHAL, Guttenberg, N. J., assignor to Shapiro & Aronson Inc., New York, N. Y., a Corporation of New York. Filed Apr. 30, 1918. Serial No. 231,749. Term of patent 3½ years



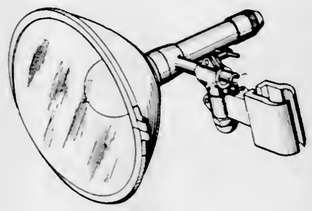
The ornamental design for a plate for lighting fixtures, as shown.

55,348. TAPE. FRANK WIBERLEY, Jamaica, N. Y., assignor to Barthels Manufacturing Company, Glendale, N. Y., a Corporation of New York. Filed Dec. 11, 1918. Serial No. 266,347. Term of patent 14 years.



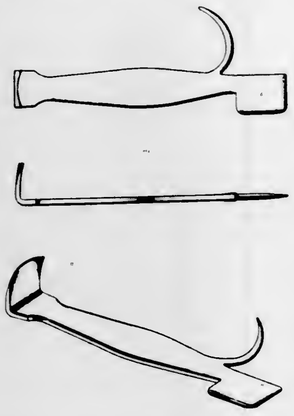
The ornamental design for a tape, as shown.

55,349. ELECTRIC-LAMP HANDLE AND SUPPORTING-BRACKET. RALPH E. WILLIAMS, Los Angeles, Calif. Filed Apr. 23, 1918. Serial No. 230,351. Term of patent 14 years.



The ornamental design for an electric lamp handle and supporting bracket, as shown.

55,350. PRUNING-TOOL. RUSSELL B. WILLIAMS, Bartlett, Kans. Filed Nov. 7, 1919. Serial No. 336,484. Term of patent 14 years.



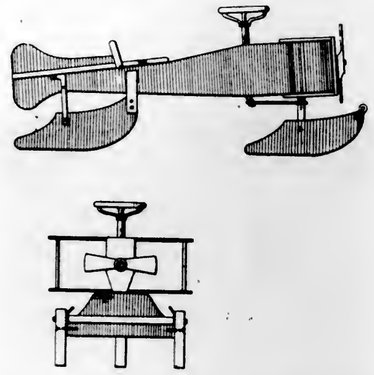
The ornamental design for a pruning tool, as shown.

55,351. DISH-WASHING MACHINE. FRANK E. WOLCOTT, Hartford, Conn. Filed Jan. 20, 1920. Serial No. 352,866. Term of patent 7 years.



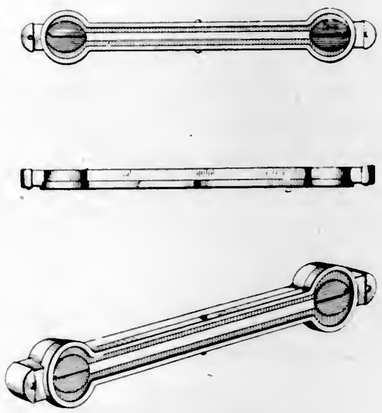
The ornamental design for a dish washing machine, as shown.

55,352. CHILD'S SLEIGH. GEORGE E. WORTH, Rochester, N. Y. Filed Oct. 3, 1919. Serial No. 328,301. Term of patent 14 years.



The ornamental design for a child's sleigh as shown.

55,353. INCLOSING-CASING FOR AN AUTOMOBILE-SIGNAL. GEORGE J. ZEIS, Buffalo, N. Y. Filed Dec. 1, 1919. Serial No. 341,832. Term of patent 14 years.



The ornamental design for an inclosing casing for an automobile signal, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 25, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 100,954. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DIEDRICH H. BRANDES, New York, N. Y. Filed Jan. 26, 1919.

BLANCINE

Particular description of goods.—Paints and Varnishes—to wit, Flatting-Powders Consisting of Zinc Precipitates Suitable for Waterproofing Preparations.

Claims use since Sept. 15, 1916.

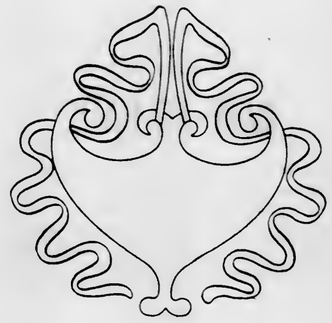
Ser. No. 104,618. (CLASS 38. PRINTS AND PUBLICATIONS.) MEDICI SOCIETY—AMERICAN BRANCH—INC., Boston, Mass. Filed June 22, 1917.



Particular description of goods.—Fine-Art Publications, Illustrated Works Relating to Art, Translations and Reproductions of Old and Rare Books, and Reprints of Books of Previously-Published Works or New Works in Which Facsimile Collotype-Printing is the Form of Illustrations Employed.

Claims use since July 26, 1916.

Ser. No. 104,620. (CLASS 38. PRINTS AND PUBLICATIONS.) MEDICI SOCIETY—AMERICAN BRANCH—INC., Boston, Mass. Filed June 22, 1917.



Particular description of goods.—Fine-Art Publications, Illustrated Works Relating to Art, Translations and Reproductions of Old and Rare Books, and Reprints of Books of Previously-Published Works or New Works in Which Facsimile Collotype-Printing is the Form of Illustrations Employed.

Claims use since July 26, 1916.

Ser. No. 105,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUGUSTE GAILLARD, Malaga, Spain. Filed Aug. 18, 1917.

LINDA

Particular description of goods.—Olive-Oil.

Claims use since the 6th day of June, 1917.

Ser. No. 105,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUGUSTE GAILLARD, Malaga, Spain. Filed Aug. 18, 1917.

LOLA

Particular description of goods.—Olive-Oil.
Claims use since the 10th day of April, 1917.

Ser. No. 107,937. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CAREY COMPANY, Cleveland, Ohio. Filed Dec. 13, 1917.

RAD HOOD

No claim is made to the word "Hood" apart from the mark shown in the drawing.
Particular description of goods.—Covers for Heating-Radiators.
Claims use since about Sept. 1, 1917.

Ser. No. 109,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. FORST, Scottdale, Pa. Filed Mar. 26, 1918.

BARE-TO-HAIR

Particular description of goods.—Hair-Tonic.
Claims use since Mar. 21, 1918.

Ser. No. 110,101. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD L. SMITH, New York, N. Y. Filed Apr. 10, 1918.



Particular description of goods.—Oils, Fluids, and Compounds Used for Waterproofing Textile Fabrics and Acid-proofing Fluids.
Claims use since Mar. 1, 1918.

Ser. No. 110,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHEMICAL COMPANY OF AMERICA, INC., New York, N. Y. Filed May 14, 1918.

AEROLACQ

Particular description of goods.—Chemical Compounds for Waterproofing Textile Fabrics.
Claims use since Sept. 7, 1917.

Ser. No. 112,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARMAND A. GARDOS, Cleveland, Ohio, assignor to The United Drug and Candy Mfg. Co., Cleveland, Ohio, a Corporation of Ohio. Filed July 26, 1918.

SWEETLAX

Particular description of goods.—Laxative Compounds.
Claims use since about Jan. 2, 1918.

Ser. No. 112,878. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed Aug. 26, 1918.



No claim is made specifically herein for the representation of the central thread or yarn appearing in the rope when untwisted or at its ends.
Particular description of goods.—Fiber Rope.
Claims use since May 26, 1918.

Ser. No. 113,023. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) IZUMI SHIKUSAWA, Chigusa Machi, Aichi Gun, Aichi Ken, Japan. Filed Sept. 4, 1918.



Particular description of goods.—Artificial Teeth.
Claims use since Oct. 4, 1904.

Ser. No. 114,676. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MUTUAL DRUG COMPANY, Ellenville, N. Y. Filed Dec. 16, 1918.

VELVOBALM

Particular description of goods.—Skin-Lotions.
Claims use since July 1, 1916.

Ser. No. 114,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STRIPES CITRUS PACKING CO., Fort Myers, Fla. Filed Dec. 20, 1918.

"BARS"

Particular description of goods.—Citrus Fruits—Namely, Oranges, Grape-Fruit, Lemons, Limes, and Tangerines.
Claims use since Nov. 15, 1918.

Ser. No. 114,775. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Dec. 23, 1918.

SPLASHME



Particular description of goods.—Soap.
Claims use since Dec. 15, 1918.

Ser. No. 115,164. (CLASS 12. CONSTRUCTION MATERIALS.) MICHAEL A. TERRY, New York, N. Y. Filed Jan. 13, 1919.

DUSTEX

Particular description of goods.—An Aqueous Adhesive Liquid Serving as an Earth-Binder and Dust-Layer, Adapted to be Employed by Being Distributed or Sprayed on Highways and Elsewhere.
Claims use since Nov. 1, 1918.

Ser. No. 115,582. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PANFILO ZENDEJAS, Los Angeles, Calif. Filed Feb. 1, 1919.



The picture on the drawing being a portrait of myself.
Particular description of goods.—A Medicine for the Treatment of Syphilis, Rheumatism, Constipation, Kidney Troubles, Eczema, Ulcers, Neurasthenia, and Weakness.
Claims use since Sept. 9, 1918.

Ser. No. 116,022. (CLASS 39. CLOTHING.) DORIS COHN, New York, N. Y. Filed Feb. 20, 1919.

Hearn
Knock-a-bout

The trade-mark "Hearn Knock-a-bout" as shown in the specimens is the facsimile handwriting of my son, Mr. Abraham Cohn.
Particular description of goods.—Ladies' Leather Shoes.
Claims use since about 1904.

Ser. No. 116,112. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France. Filed Feb. 24, 1919.

GNOME ET RHONE

Particular description of goods.—Internal-Combustion Aviation-Motors and All Kinds of Mechanical and Aeronautical Internal-Combustion Engines.
Claims use since the 27th of January, 1915.

Ser. No. 116,355. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESTATE OF GEORGE E. WALES, Newton Center, Mass. Filed Mar. 6, 1919. Under ten-year proviso.

WALES

Particular description of goods.—Jellies, Jam, and Fruit Preserves.
Claims use since 1867.

Ser. No. 116,362. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) APOLINARAS DOBRICKAS, Camp Merritt, N. J. Filed Mar. 7, 1919.



The trade-mark consists of my photograph.
Particular description of goods.—A Liquid Blood-Purifying Preparation.
Claims use since Jan. 1, 1919.

Ser. No. 116,654. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HIGHWAY TRAILER COMPANY, Edgerton, Wis. Filed Mar. 17, 1919.

HIGHWAY

Particular description of goods.—Trailers.
Claims use since May 1, 1917.

Ser. No. 116,936. (CLASS 39. CLOTHING.) GEORGE W. SMITH, McKinney, Tex. Filed Mar. 26, 1919.



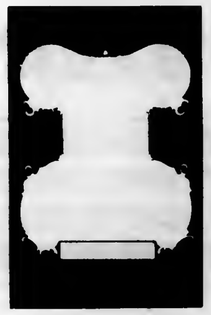
Particular description of goods.—Men's Suits.
Claims use since the 15th day of September, 1918.

Ser. No. 117,436. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CITRUS SOAP COMPANY, San Diego, Calif. Filed Apr. 14, 1919. Under ten-year proviso.



Comprising the representation of a lemon shown in the drawing.
Particular description of goods.—Washing-Powder.
Claims use since during the year 1893.

Ser. No. 117,437. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CITRUS SOAP COMPANY, San Diego, Calif. Filed Apr. 14, 1919. Under ten-year proviso.



Particular description of goods.—Washing-Powder.
Claims use since during the year 1893.

Ser. No. 117,438. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CITRUS SOAP COMPANY, San Diego, Calif. Filed Apr. 14, 1919. Under ten-year proviso.

CITRUS

Consisting of the arbitrary word "Citrus."
Particular description of goods.—Washing-Powder.
Claims use since during the year 1893.

Ser. No. 117,453. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRIFFIN MANUFACTURING CO. INC., New York, N. Y. Filed Apr. 14, 1919.

GRIFFIN

Particular description of goods.—Shoe-Polishes, Shoe-Blackings, Shoe-Cleansers, Leather-Dressings, Leather-Preservatives, and Metal-Polish.
Claims use since Apr. 4, 1894.

Ser. No. 117,526. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE T. HARZ, Chicago, Ill. Filed Apr. 16, 1919.

K-9

Particular description of goods.—Insecticides for Dogs and Cats.
Claims use since Sept. 30, 1917.

Ser. No. 117,823. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCOTT & BOWNE, Bloomfield, N. J. Filed Apr. 24, 1919.

KLAROL

Particular description of goods.—Cod-Liver Oil.
Claims use since Apr. 3, 1919.

Ser. No. 117,886. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MONARCH MILLS, INC., Chattanooga, Tenn. Filed Apr. 26, 1919.

BUTTER FAT



Particular description of goods.—Dairy Feed.
Claims use in its business and trade since Jan. 14, 1918.

Ser. No. 117,995. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HENRY M. SHEER, Quincy, Ill. Filed Apr. 29, 1919.



Particular description of goods.—Oil Burners and Heaters, Such as Employed in Incubators, Brooders, and Oil-Stoves.
Claims use since December, 1914.

Ser. No. 118,276. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL ROSENBLUM, Brooklyn, N. Y. Filed May 8, 1919.



The lining in the drawing merely representing shading.
Particular description of goods.—Fresh Onions, Potatoes, Turnips, and Carrots.
Claims use since Apr. 21, 1919.

Ser. No. 118,315. (CLASS 12. CONSTRUCTION MATERIALS.) MAZER ACOUSTILE COMPANY, Philadelphia, Pa. Filed May 9, 1919.

ACOUSTIFELT

The exclusive use of the word "Felt" apart from the trade-mark shown in the drawing is disclaimed.
Particular description of goods.—Acoustic Appliances—Namely, Composite Sound-Deadening Material Made of Fiber and Pads and Sheets Made of Felt or of Felt Attached to Air-Cell Fiber-Board for the Purpose of Improving the Acoustic Properties of Buildings.
Claims use since Oct. 12, 1916.

Ser. No. 118,582. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IWAN BURGER, New York, N. Y. Filed May 17, 1919.



No claim being made to the representation of a fish in so far as canned fish are concerned.
Particular description of goods.—Canned Fish, Canned Fruits, and Canned Vegetables; Cheese; Pimentos, and Olive-Oil.
Claims use since Mar. 13, 1917.

Ser. No. 118,717. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS W. TOMPKINS, New York, N. Y. Filed May 19, 1919.

SylvAnette

Particular description of goods.—Artificial-Silk Knit Fabrics, Worm-Silk Knit Fabrics, and Combined Artificial-Silk and Worm-Silk Knit Fabrics in the Piece, Used for Women's Wear of All Descriptions.
Claims use since Aug. 1, 1918.

Ser. No. 118,785. (CLASS 2. RECEPTACLES.) ERNEST S. JOHNSON, Webster City, Iowa. Filed May 22, 1919.

Therm-a-Jug

The word "Jug" forming a part of said trade-mark is hereby disclaimed.
Particular description of goods.—Jacketed Cans.
Claims use since Apr. 30, 1919.

Ser. No. 119,330. (CLASS 32. FURNITURE AND UPHOLSTERY.) BAKE-RITE OVEN MFG. COMPANY, Reno, Nev., and San Francisco, Calif. Filed June 9, 1919.

BAKE-RITE

Particular description of goods.—Sales-Counters, Display-Racks, Cooling-Racks, Display-Cabinets, Storage-Cabinets, Kitchen-Cabinets, Dough-Proofing Cabinets, Kitchen-Chairs, Kitchen-Stools, Kitchen-Tables, Dining-Room Chairs, Dining-Room Stools, Dining-Room Tables, Counter-Chairs, Office-Chairs, Counter-Stools, Desks.
Claims use since the 27th day of May, 1918.

Ser. No. 119,370. (CLASS 5. ADHESIVES.) WILLIAM SESSIONS, York, England. Filed June 9, 1919.

EUPAX

Particular description of goods.—Envelop-Sealing Slips and Adhesive Paper Seals.
Claims use since the 16th of July, 1917.

Ser. No. 120,202. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LESLIE R. N. CARVALHO, Brooklyn, N. Y., assignor, by mesne assignments, to Closure Service Corp., Brooklyn, N. Y., a Corporation of New York. Filed July 2, 1919.

Triple Seal

No claim being made to the word "Seal" apart from the mark shown in the drawing.
Particular description of goods.—Metal Caps for Bottles, Jars, and Tumblers.
Claims use since Apr. 1, 1919.

Ser. No. 120,469. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE WALLACE & SMITH COMPANY, Laporte, Ind. Filed July 11, 1919.

KAMP WELL

Particular description of goods.—Blankets and Robes for Outdoor and Household Uses, Made of Wool, Cotton, and Mixtures of Wool and Cotton, other Than Horse-Blankets.
Claims use since Apr. 3, 1919.

Ser. No. 120,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EGBERT J. SORMANI, Brooklyn, N. Y. Filed July 19, 1919.

Ol-Nas.

Particular description of goods.—Preparations for Diseases of the Nose and Throat.
Claims use since Sept. 1, 1918.

Ser. No. 120,857. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. FIRE EXTINGUISHER CO., Syracuse, N. Y. Filed July 23, 1919.

Autofyr

Particular description of goods.—Fire-Extinguishing Compounds.
Claims use since June 16, 1919.

Ser. No. 121,350. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR I. LUDWIG, New York, N. Y. Filed Aug. 7, 1919.

ARCH MILLS

The lining which appears in the drawing is for the purpose of shading only.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 13, 1915.

Ser. No. 121,490. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CATHERINE C. TURNER, Spokane, Wash. Filed Aug. 9, 1919.



Particular description of goods.—A Talking-Board or Question-Answering Device.
Claims use since Mar. 24, 1919.

Ser. No. 121,496. (CLASS 15. OILS AND GREASES.) VACUUM OIL COMPANY, New York, N. Y. Filed Aug. 9, 1919.

VOCO

Particular description of goods.—Oils, Greases, and Waxes of All Kinds and Similar Products for Lubricating, Illuminating, Heating, and Fuel Purposes; Also Gasolene.
Claims use since April, 1907.

Ser. No. 121,593. (CLASS 39. CLOTHING.) W. H. MILES SHOE CO., INC., Richmond, Va. Filed Aug. 12, 1919.

TEXAS STEER

Particular description of goods.—Boots and Shoes Made of Leather.
Claims use since May 1, 1912.

Ser. No. 121,803. (CLASS 2. RECEPTACLES.) PHILIP COHEN, New York, N. Y. Filed Aug. 19, 1919.



The body of the dart being in blue and the outline thereof in red, no claim being made to the exclusive use of the words "Sanitary Can, The Can with the Lid On" apart from the mark as shown in the drawing.
Particular description of goods.—Sanitary Garbage-Cans.
Claims use since July 30, 1919.

Ser. No. 121,825. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE AMES-BONNER COMPANY, Toledo, Ohio. Filed Aug. 20, 1919.



Particular description of goods.—Hand, Wall, and Stand Mirrors.
Claims use since 1900.

Ser. No. 121,827. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE AMES-BONNER COMPANY, Toledo, Ohio. Filed Aug. 20, 1919.



Particular description of goods.—Hair, Tooth, and Clothes Brushes.
Claims use since 1900.

Ser. No. 121,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. J. WILLIAMS, Chicago, Ill. Filed Aug. 20, 1919.

Mme C. J. Williams

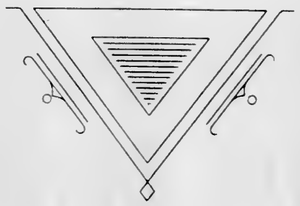
The trade-mark is the facsimile of applicant's signature.
Particular description of goods.—A Hair-Tonic.
Claims use since Dec. 15, 1918.

Ser. No. 122,077. (CLASS 39. CLOTHING.) HAND KNIT HOSIERY CO., Sheboygan, Wis. Filed Aug. 28, 1919.



No claim being made to the words "Hand Knit Hosiery Co.," "Trade Mark," and "Sheboygan" and the pictorial representation of hand-knitting except as relatively arranged and placed upon the red background as shown in the drawing.
Particular description of goods.—Wool, Cotton, and Mixed Cotton and Wool Hose and Half-Hose, Woolen and Cotton Gloves and Mittens, Infants' Bootees, and Knitted Scarf Sets Consisting of Knitted Scarfs and Knitted Caps Commonly Called Toques, Ladies' Knit Skirts, and Bathing-Suits.
Claims use since January, 1905.

Ser. No. 122,219. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN M. LOUNSBURY, Milwaukee, Wis. Filed Sept. 2, 1919.



Particular description of goods.—Calcium-Magnesium Oxids for a Neutralizer for Dairy Purposes.
Claims use since May, 1917.

Ser. No. 122,258. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKE REEDY PACKING CO., Frostproof, Fla. Filed Sept. 3, 1919.



Particular description of goods.—Citrus Fruits.
Claims use since Aug. 19, 1919.

Ser. No. 122,366. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE E. L. PATCH CO., Stoneham, Mass. Filed Sept. 5, 1919.

STIMULA

Particular description of goods.—A Rubefacient and Anodyne Cream.
Claims use since Mar. 14, 1911.

Ser. No. 122,391. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EUREKA PRODUCTS CO., St. Louis, Mo. Filed Sept. 6, 1919.

EUREKA

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Dec. 10, 1918.

Ser. No. 122,666. (CLASS 17. TOBACCO PRODUCTS.) STANDARD TOBACCO COMPANY, INC., New York, N. Y. Filed Sept. 13, 1919.

THE CHIEF

Particular description of goods.—Cigarettes.
Claims use since about Dec. 31, 1917.

Ser. No. 122,815. (CLASS 5. ADHESIVES.) FREDERICK F. BRINKER, Peoria, Ill. Filed Sept. 18, 1919.



Applicant hereby disclaims the use of the word "Grip" and of the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Canned Adhesive Rubber.
Claims use since Apr. 1, 1919.

Ser. No. 122,840. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES E. LINDH, INC., Philadelphia, Pa. Filed Sept. 18, 1919.

"Celin"

Particular description of goods.—Piece Goods—Namely, Cotton Bunting, Cotton Cloth, Cotton Duck, Khaki Cloth, Khaki Duck, and Canvas Porch-Floor Coverings.
Claims use since January, 1914.

Ser. No. 122,886. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FERRALINE MEDICINE COMPANY, Demopolis, Ala. Filed Sept. 19, 1919. Under ten-year proviso.

FERRALINE

Particular description of goods.—Iron Tonic, Salve Used in the Treatment of Wounds, Bruises, &c., and Cough-Syrup.
Claims use since Feb. 20, 1892.

Ser. No. 123,089. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ALBERT WISS, Peekskill, N. Y. Filed Sept. 24, 1919.

TELEFAME

Particular description of goods.—Watches, Watch-Movements, Watchcases, and Parts Thereof.
Claims use since Apr. 26, 1910.

Ser. No. 123,122. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICLES HARTOFELIS, Manchester, N. H. Filed Sept. 25, 1919.

Nicles Hartofelis

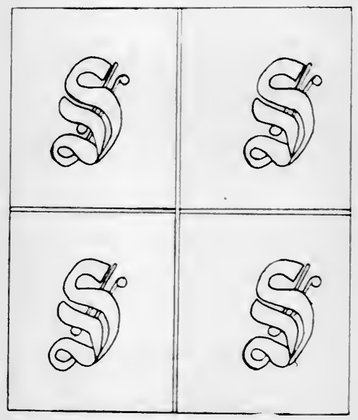
The trade-mark being a facsimile signature of applicant.
Particular description of goods.—Medicine in Liquid and Pill Form to be Taken Internally and Externally for the Treatment of Venereal Diseases.
Claims use since January, 1912.

Ser. No. 123,232. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WALES ADDING MACHINE COMPANY, Kingston borough, Pa. Filed Sept. 27, 1919.

WALES

Particular description of goods.—Adding, Listing, and Calculating Machines.
Claims use since Aug. 15, 1919.

Ser. No. 123,242. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAROLD B. EINGOLD, Worcester, Mass. Filed Sept. 29, 1919.



Particular description of goods.—Products—Namely, Butter.
Claims use since on or about the year 1893.

Ser. No. 123,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSCAR P. STRAYHORN, St. Louis, Mo. Filed Sept. 29, 1919.

O-P-S

Particular description of goods.—A Certain Pharmaceutical Preparation Used in Dressing the Hair and Cleansing the Scalp.
Claims use for a period of more than six months next preceding the filing of this statement—to wit, February, 1919.

Ser. No. 123,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. J. BRICKER, Minneapolis, Minn. Filed Oct. 4, 1919.

MANILO



The word "Manilo" is not claimed herein except in association with the tropical pictorial illustration shown.
Particular description of goods.—A Medicinal Compound Used for Rheumatism, Lumbago, Pleurisy, Pneumonia, Influenza, Neuralgia, Asthma, Female Trouble, Cramp-Colic, Indigestion, Ptomaine-Poisoning, Croup, Wire-Cuts, Nail-Wounds, and Insect-Bites.
Claims use since the 25th day of April, 1919.

Ser. No. 123,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEIGHTON SUPPLY CO., Fort Dodge, Iowa. Filed Oct. 6, 1919.



The picture of a woman shown on the drawing is fanciful.
Particular description of goods.—Ointments and Salves for Insect-Bites, Sunburn, Prickly Heat, Tired Feet, Piles, Burns, Sprains, Sore Muscles, Eczema, Bruises, Chilblains, Rheumatism, Sore Lips, Chapped Hands, Skin Irritation, Colds, Soothing and Healing Application After Shaving, Catarrh, Hay-Fever, Asthma, Croup, Sore Throat, Headache, and Neuralgia.
Claims use since Oct. 1, 1918.

Ser. No. 123,554. (CLASS 43. THREAD AND YARN.) NONOTUCK SILK COMPANY, Northampton, Mass. Filed Oct. 8, 1919.

AMERICANTOWN

Particular description of goods.—Yarn of Worsted, Mohair, Wool, Silk, or Cotton.
Claims use since about Mar. 4, 1919.

Ser. No. 123,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Oct. 11, 1919.

HEXALOIDS

"Hexaloids," as shown in the accompanying drawing.
Particular description of goods.—A Medicinal Preparation of Hexamethylenamin.
Claims use since Sept. 16, 1919.

Ser. No. 123,771. (CLASS 39. CLOTHING.) CHANDLER & CO., INC., Boston, Mass. Filed Oct. 14, 1919.

Centenaire

Particular description of goods.—Vests, Bodice-Vests, Bloomers, Union-Suits, and Envelop-Chemises in One-Piece Garments of Tricot and Milanese Fabrics for Women's Wear.
Claims use since May 12, 1919.

Ser. No. 123,952. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRAME DRUG COMPANY, INC., North Wilkesboro, N. C. Filed Oct. 20, 1919.



No claim apart from the trade-mark illustrated is made for the words "Salve" and also "Will Not Stain the Clothes" and also for the representation of a bottle.
Particular description of goods.—Salve for Influenza, Summer Colds, Catarrh, Asthma, Hay-Fever, Head-Colds.
Claims use since about June, 1919.

Ser. No. 124,000½. (CLASS 5. ADHESIVES.) ROBERT T. FURMAN, New York, N. Y. Filed Oct. 20, 1919.



Particular description of goods.—Library-Paste, Mucilage.
Claims use since the 1st day of November, 1918.

Ser. No. 124,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIET B. APPLETON, New York, N. Y. Filed Oct. 27, 1919.



Particular description of goods.—A Face-Lotion.
Claims use since Sept. 1, 1919.

Ser. No. 124,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. BELL CONFECTIONERY COMPANY, Cambridge, Mass. Filed Oct. 28, 1919.

Bell's
ForKdipt

The name "Bell's" as shown is in the handwriting of Mr. J. S. Bell, the treasurer of the company, the word "Forkdipt" being disclaimed apart from the mark shown.
Particular description of goods.—Candies.
Claims use since prior to Apr. 4, 1906.

Ser. No. 124,293. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLOSGARD WARDROBE COMPANY, Washington, D. C. Filed Oct. 29, 1919.

CLOSGARD

Particular description of goods.—Folding Wardrobes.
Claims use since about May 1, 1917.

Ser. No. 124,362. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE STAR BINDING & TRIMMING CO. INC., New York, N. Y. Filed Oct. 30, 1919.

WEBSTER

The lining of the letters indicates shading.
Particular description of goods.—Glove-Binding.
Claims use since the 19th day of May, 1917.

Ser. No. 124,441. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y. Filed Nov. 1, 1919.



Particular description of goods.—Table-Salt.
Claims use since about the last of August, 1894.

Ser. No. 124,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 3, 1919.

Lanchére

Particular description of goods.—Perfumes, Toilet Water, Face-Powder, Cold-Cream, Vanishing Cream, Sachet-Powder, Compact Powder, Rouges, Lip-Sticks, Mascaro, Bath-Salts, Soaps, Brilliantines, Complexion-Cream, Eyebrow-Pencils, Manicure Preparations, and Talcum Powder.
Claims use since Aug. 12, 1919.

Ser. No. 124,522. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HEKMAN & GOODMAN CANDY COMPANY, Denver, Colo. Filed Nov. 4, 1919.



No claim being made for the word "Candies" aside from the mark shown, the parallel lines in the drawing indicating red.
Particular description of goods.—Candies.
Claims use since Sept. 20, 1919.

Ser. No. 124,529. (CLASS 10. FERTILIZERS.) ALLAN G. MACDONELL, New York, N. Y. Filed Nov. 4, 1919.

RADIOLIFE

Particular description of goods.—Fertilizers.
Claims use since on or about Sept. 15, 1919.

Ser. No. 124,594. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNIE L. CARTER, New York, N. Y. Filed Nov. 6, 1919.

EUREKA

Particular description of goods.—A Chemical Compound for the Treatment of the Hair and Scalp.
Claims use since Oct. 14, 1919.

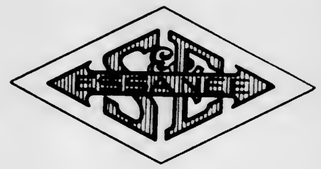
Ser. No. 124,667. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLOMON PRAISNER, Brooklyn, N. Y. Filed Nov. 7, 1919.

Sulpra



The portrait shown on the drawing is that of Sophia Praisner.
Particular description of goods.—A Fluid Intended to Relieve Falling Hair.
Claims use since the month of August, 1918.

Ser. No. 124,669. (CLASS 39. CLOTHING.) SHAINBERG AND EBER, Memphis, Tenn. Filed Nov. 7, 1919.



In the drawing the mark, comprising the fanciful letters "S & E," with a double-pointed arrow crossing the face thereof, is lined for red, indicating a red coloration.
Particular description of goods.—Women's and Children's Outer and Under Garments, as Follows: Ladies' Outer Garments—Coats, Suits, Dresses, Waists, Middies, Aprons, Sweaters, Leather or Fabric Gloves, Skirts; Ladies' Undergarments—Gowns, Hosiery, Drawers, Petticoats, Chemise, Princesse Slips, Camisoles, Teddies, Bloomers, Vests, Corsets, Kimonos; Children's Outer Garments—Dresses, Cloaks, Blouses, Pants, Suits, Rompers, Middies, Skirts, Sweaters; Children's Undergarments—Hosiery, Drawers, Petticoats, Union-Suits, Bloomers, Teddies.
Claims use since July, 1918.

Ser. No. 124,718. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUNTER PRESSED STEEL CO., Lansdale borough, Pa. Filed Nov. 10, 1919.

Airspring

No claim is made for the letters "spring" apart from their connection with the remaining portion of the mark.

Particular description of goods.—Grease-Cups.

Claims use since March, 1915.

Ser. No. 124,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM B. COSGROVE, Springfield, Mass. Filed Nov. 11, 1919.

COSUPCO

Particular description of goods.—Chemical Carbon-Remover.

Claims use since on or about Oct. 1, 1919.

Ser. No. 124,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BUREN H. SPALDING, Los Angeles, Calif. Filed Nov. 11, 1919.



The portrait shown being that of the applicant, no claim being made to the word "Sanar" apart from the mark shown in the drawing.

Particular description of goods.—A Vegetable Compound in the Form of a Tablet Used as an Aid to the Blood.

Claims use since the 7th day of June, 1916.

Ser. No. 124,820. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK L. SLAZENGER, New York, N. Y. Filed Nov. 12, 1919.



Particular description of goods.—Tennis-Rackets.

Claims use since Jan. 1, 1912.

Ser. No. 125,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MELTON MEDICINE COMPANY, INC., McBee, S. C. Filed Nov. 17, 1919.

MELTONE

Particular description of goods.—A Compound of Medicines for the Treatment of Liver, Kidney, and Stomach Troubles.

Claims use since Jan. 1, 1919.

Ser. No. 125,013. (CLASS 39. CLOTHING.) NOVELTY KNITTING MILLS, Milwaukee, Wis. Filed Nov. 17, 1919.



No claim being made to the words "Knitted Outerwear" apart from the mark as shown in the drawing.

Particular description of goods.—Knitted Caps, Sweaters, Gloves, and Mittens.

Claims use since Aug. 19, 1919.

Ser. No. 125,117. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT E. MURDOCK, South Hingham, Mass. Filed Nov. 20, 1919.



No claim is made to exclusive rights in the word "Murdock's" or in the words "Trade Mark" or in the word "Nufood" apart from the combination and special arrangement thereof in the mark as shown.

Particular description of goods.—Malt Extracts and Concentrated Food-Powders and Foods Composed Principally of Malt Extract, Milk, and Eggs.

Claims use since Jan. 1, 1919.

Ser. No. 125,119. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed Nov. 20, 1919.

NAVY PLUG

Particular description of goods.—Licorice Confection.

Claims use since 1896.

Ser. No. 125,160. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOYAL F. GARRIS, Jackson, Mich. Filed Nov. 21, 1919.

WHIRLWIND
WASHING WONDER.

The word "Washing" is disclaimed apart from the manner shown in the drawing.

Particular description of goods.—A Washing Compound for Clothes, Woodwork, Metal, Dishes, Porcelain, Lace Curtains, Chiffons, Delicate Fabrics, Woolens, China, and Cut Glass.

Claims use since about June, 1918.

Ser. No. 125,167. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILBUR WHITE CHEMICAL COMPANY, Owego, N. Y. Filed Nov. 21, 1919.

WHITOL

Particular description of goods.—A Phonographic Developer.

Claims use since June, 1919.

Ser. No. 125,178. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. F. GALLAHER, Dayton, Ohio. Filed Nov. 22, 1919.

RUBITONE

Particular description of goods.—An Ointment for Use in the Treatment of Pimples, Dandruff, and Dry Scaly Eczema.

Claims use since Sept. 1, 1914.

Ser. No. 125,200. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES TULLEY, Peoria, Ill. Filed Nov. 22, 1919.

UGETIT

Particular description of goods.—Salves and Ointments for the Treatment of Piles, Fistula, Eczema, and Burns.

Claims use since about the 1st day of October, 1919.

Ser. No. 125,238. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MINNEAPOLIS GENERAL ELECTRIC COMPANY, Jersey City, N. J., and Minneapolis, Minn. Filed Nov. 24, 1919.



The said The Minneapolis General Electric Company hereby disclaims the representation of an incandescent lamp shown in the accompanying drawing.

Particular description of goods.—Incandescent Electric Lamps, Electric Toasters, Electric Flatirons, and Electric Air-Heaters.

Claims use since Oct. 1, 1919.

Ser. No. 125,330. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PIROXLOID PRODUCTS CORPORATION, New York, N. Y. Filed Nov. 26, 1919.



Particular description of goods.—Dice, Dominoes, Chess, Checkers, (Made of Celluloid and Bone,) and Poker-Chips, (Made of Composition Material.)

Claims use since December, 1917.

Ser. No. 125,350. (CLASS 25. LOCKS AND SAFES.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Nov. 26, 1919.



Particular description of goods.—Padlocks, Night-Latches.

Claims use since Dec. 29, 1911.

Ser. No. 125,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DRUGGISTS COMMERCIAL ALLIANCE INC., New York, N. Y. Filed Nov. 28, 1919.



Particular description of goods.—A Blood-Purifier and Preparations for Coughs, Colds, Bronchitis, Hoarseness, Catarrh, Whooping-Cough, Croup, Asthma, and Tuberculosis.

Claims use since Aug. 1, 1919.

Ser. No. 125,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE LEFRINCE, Paris, France. Filed Nov. 29, 1919.

Eumictine

Particular description of goods.—A Remedy for Use in the Treatment of Venereal Diseases.

Claims use since about 1910.

Ser. No. 125,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AR-LON MEDICINE MFG. CO., St. Louis, Mo. Filed Dec. 2, 1919.

FA-VR

Particular description of goods.—Liniment for the Treatment of Neuralgia, Sprains, Stiff Neck, Headache, Toothache, Sore Muscles, Head-Noise, Tonsillitis, Croup, Pleurisy, Muscular Rheumatism, and Lumbago.
Claims use since July 30, 1917.

Ser. No. 125,500. (CLASS 31. FILTERS AND REFRIGERATORS.) HARDER MANUFACTURING CORPORATION, Cobleskill, N. Y. Filed Dec. 2, 1919.

VICTORY

Particular description of goods.—Refrigerators.
Claims use since Aug. 16, 1919.

Ser. No. 125,542. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK A. NORWOOD, Delaware, Ohio. Filed Dec. 3, 1919.

EUCALL

Particular description of goods.—Preparations for Headache, Colds, Rheumatism, Neuralgia, Pain, Grippe, Fever, and Stomach Trouble; Preparations for Healing the Skin; Toothache Preparations; Laxatives and Cathartics and Preparations for Constipation, Diarrhea, Dysentery, and Bowel Troubles; Tonics and Preparations for Nervous Disorders, General Debility, and Weakness; Bay-Rum and Hair-Tonics, Egg-Preserver, Face-Powder, Rouge and Talc, Tooth-Paste; Mineral Oil and Olive-Oil, (Medicinal;) Preparations for Dyspepsia and Indigestion; Preparations for Catarrh, Bronchial, Throat, and Lung Troubles and Asthma, Hoarseness, Coughs, Colds, and Affections of Mucous Membranes of the Mouth, Nose, and Throat, Heart Troubles, Kidney and Liver Troubles, Headache and Toothache, Disorders Involving Worms and Parasites, Skin Eruptions and Diseases, Gastric and Stomach Troubles, Being in the Form of Creams, Pastes, Salves, Jellies, Crystals, Powders, Granules, Lozenges, Pills, Troches, Tablets, Wafers, Jujubes, Salts, Syrups, Cordials, Liquids, Oils, Ointments, Rubbing-Oils, Plasters, Poultices, and Pencils.
Claims use since Oct. 1, 1915.

Ser. No. 125,549. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK P. SYMONDS, Salem, Mass. Filed Dec. 3, 1919.



Particular description of goods.—Witch-Hazel, Disinfectant, Insect-Exterminators, Fortified Ammonia.
Claims use since 1899.

Ser. No. 125,589. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL THEATRES CONCESSION CO., Chicago, Ill. Filed Dec. 4, 1919.

FROZEN SWEETS

"Frozen Sweets," the word "Sweets" being disclaimed apart from the mark as shown.
Particular description of goods.—Candy.
Claims use since Jan. 1, 1912.

Ser. No. 125,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN M. THOMPSON, Fort Dodge, Iowa. Filed Dec. 1, 1919.



Particular description of goods.—A Preparation for Use as a Seed-Preservative, Protecting All Farm and Garden Seeds to Which Applied from Rats, Mice, Gophers, and other Rodents.
Claims use since Oct. 21, 1919.

Ser. No. 125,642. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) H. W. YEAGER & CO., INC., Philadelphia, Pa. Filed Dec. 5, 1919.

AEREX

Particular description of goods.—Electrically-Operated Vacuum-Creating Apparatus for Player-Pianos.
Claims use since July 14, 1919.

Ser. No. 125,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KALI MANUFACTURING CO., Philadelphia, Pa. Filed Dec. 8, 1919.

DISFECTOL

Particular description of goods.—An Antiseptic and Disinfectant for Sick-Rooms, Closets, and Household Purposes.
Claims use since Jan. 1, 1919.

Ser. No. 125,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PARAGON INSULATING COMPANY, Cleveland, Ohio. Filed Dec. 8, 1919.

PARAGON

Particular description of goods.—Materials Used to Aid in the Process of Soldering—Namely, Soldering-Pastes, Soldering-Fluids, Soldering-Salts, and Soldering-Solids.
Claims use in its business for that part of the trade-mark consisting of the word "Paragon" continuously since about Jan. 1, 1899; in its business or that of its predecessors for that part of the trade-mark which consists of the representation of a stick of solder, a soldering-iron and a wire being joined, continuously since about Jan. 1, 1915, and in its business for the combination of the word "Paragon" and the device continuously since May 1, 1918.

Ser. No. 125,826. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES BUCHANAN BORDERS, Macon, Ga. Filed Dec. 11, 1919.



Consisting of my portrait and a facsimile of my signature.
Particular description of goods.—A Liquid Preparation for the Treatment of Corns, Muscular Aches and Pains, Burns, Cuts, Sores, and Cramps.
Claims use since Nov. 19, 1919.

Ser. No. 125,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDER W. CHAPPELL, Red Bank, N. J. Filed Dec. 13, 1919.

Succuline

Particular description of goods.—General Tonic for Poultry.
Claims use since May 1, 1918.

Ser. No. 125,949. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DUTT DRUG COMPANY, Akron, Ohio. Filed Dec. 13, 1919.

Veg-O-Cod
All the Good of Cod Liver Oil

No claim is made herein to the exclusive use of the words "All the Good of Cod Liver Oil."
Particular description of goods.—An Alterative and a Medicine Used in the Treatment of Consumption, General Debility, Pulmonary Diseases, and Wasting Diseases.
Claims use since May, 1913.

Ser. No. 125,982. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Dec. 13, 1919.

NORLEIGH DIAMOND

Particular description of goods.—Flash-Lights.
Claims use since June 15, 1908.

Ser. No. 125,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALL-QUAL SWEETS CO. INC., Chicago, Ill. Filed Dec. 15, 1919.

ALL-QUAL

Particular description of goods.—Confectionery—Namely, Chocolates.
Claims use since Nov. 22, 1919.

Ser. No. 126,012. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DENTAMINA TRADING CO., New York, N. Y. Filed Dec. 15, 1919.

Dentamina

Particular description of goods.—A Toothache Remedy.
Claims use since May, 1919.

Ser. No. 126,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. RUPERT COMPANY, INC., Portland, Oreg. Filed Dec. 15, 1919.

CHANTICLEER

Particular description of goods.—Canned Fruits—Canned Peaches and Canned Loganberries: Canned Vegetables—Namely, Canned White Wax-Beans—and Canned Fish—Namely, Canned Salmon.
Claims use since July 1, 1914.

Ser. No. 126,075. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHWEPPES, LIMITED, London, England. Filed Dec. 15, 1919.

RELENTA

Particular description of goods.—A Manufactured Medicinal Compound Comprising an Aperient Water.
Claims use since January, 1918.

Ser. No. 126,162. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE CHARLES WILLIAM STORES INC., Brooklyn, N. Y. Filed Dec. 16, 1919.

MILOLEUM

Particular description of goods.—A Floor-Covering in the Nature of Linoleum.
Claims use since Sept. 12, 1919.

Ser. No. 126,174. (CLASS 39. CLOTHING.) WILLIAM THOMSON DICKSON, Glasgow, Scotland. Filed Dec. 17, 1919.

CELES

Particular description of goods.—Coats, Pajamas, Underclothing of One and Two Piece Garments, and Negligée Shirts for Men and Women: Blouses, Dresses, and Underclothing of Three-Piece Garments for Women, of Woven Fabric.
Claims use since October, 1915.

Ser. No. 126,214. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER AND COMPANY, Chicago, Ill. Filed Dec. 18, 1919.

MELLO-FREEZE

Particular description of goods.—A Soluble and Powdered Stabilizing Agent to be Employed in the Manufacture of Ice-Cream.
Claims use since Oct. 31, 1919.

Ser. No. 126,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. E. PECK MANUFACTURING COMPANY, Minneapolis, Minn. Filed Dec. 19, 1919.

PEX

Particular description of goods.—Tooth-Paste and Tooth-Powder.
Claims use since the 12th day of December, 1919.

Ser. No. 126,290. (CLASS 5. ADHESIVES.) HOMER R. PENDLETON, Tulsa, Okla. Filed Dec. 20, 1919.

50 in $ 2

Particular description of goods.—An Adhesive Compound for Mending Automobile-Radiators, Gasolene-Tanks, Oil-Lines, Gas-Lines, and the Like.
Claims use since on or about Nov. 1, 1919.

Ser. No. 126,368. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

Grape Ola

Particular description of goods.—Flavoring Material in the Nature of Fruit Syrup for Making a Non-Alcoholic Fruit Beverage by Combining with Plain or Charged Water and the Non-Alcoholic Fruit Beverage Sold as a Soft Drink Made Therefrom.
Claims use since Aug. 1, 1910.

Ser. No. 126,369. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.

Grape Ola
CONCENTRATE

The word "Concentrate" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Flavoring Material in the Nature of Fruit Syrup for Making a Non-Alcoholic Fruit Beverage by Combining with Plain or Charged Water and the Non-Alcoholic Fruit Beverage Sold as a Soft Drink Made Therefrom.
Claims use since Oct. 1, 1912.

Ser. No. 126,373. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.



Particular description of goods.—Flavoring Material in the Nature of Fruit Syrup for Making a Non-Alcoholic Fruit Beverage by Combining with Plain or Charged Water and the Non-Alcoholic Fruit Beverage Sold as a Soft Drink Made Therefrom.
Claims use since Aug. 1, 1913.

Ser. No. 126,457. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass. Filed Dec. 26, 1919. Under ten-year proviso.

Hallet, Davis & Co.
Boston.

Particular description of goods.—Pianos.
Claims use since on or about Jan. 1, 1895.

Ser. No. 126,459. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass. Filed Dec. 26, 1919. Under ten-year proviso.

BRIGGS

Particular description of goods.—Pianos.
Claims use since on or about 1868.

Ser. No. 126,461. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass. Filed Dec. 26, 1919. Under ten-year proviso.

NORRIS & HYDE

Particular description of goods.—Pianos.
Claims use since on or about 1873.

Ser. No. 126,491. (CLASS 39. CLOTHING.) FREDERICK M. SIMPSON, San Francisco, Calif. Filed Dec. 26, 1919.

NULIFE

Consisting of the word "Nulife."
Particular description of goods.—Dress, Negligée, and Work Shirts.
Claims use since Oct. 30, 1919.

Ser. No. 126,554. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ARC-O'-MANUFACTURING CO., INC., Chicago, Ill. Filed Dec. 29, 1919.

Arc-O
Ribbon Fire

Particular description of goods.—Spark-Plugs.
Claims use since Nov. 20, 1919.

Ser. No. 126,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUSSELL ROBERTS, Concord, N. C. Filed Dec. 29, 1919.

R. I. R.
C. P.

Particular description of goods.—A Liquid Medicine, and a Salve Used in Treating Cholera, Sorehead, Limber-Neck, Mouth Disease, Foot Disease, Rheumatism, Chancre in the Craw in Fowls, Sores, Stiffness, Lameness, and Various Forms of Swelling, All of Which Ailments Are Common to Animals and Fowl.
Claims use since Oct. 15, 1919.

Ser. No. 126,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELEN STEWART, Columbus, Ohio. Filed Dec. 30, 1919.

Madame H Stewart

The mark as shown is a facsimile signature of the applicant.
Particular description of goods.—A Liniment Used in Treatment for Rheumatism, Sick Headaches, and All Kinds of Pain.
Claims use since Aug. 10, 1919.

Ser. No. 126,674. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass. Filed Dec. 31, 1919. Under ten-year proviso.

Hallet & Davis

Particular description of goods.—Pianos.
Claims use since on or about Jan. 1, 1895.

Ser. No. 126,675. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, Boston, Mass. Filed Dec. 31, 1919.

Conway BOSTON

The word "Boston" appearing with the trade-mark is not claimed as a part of said mark.
Particular description of goods.—Pianos.
Claims use since on or about October, 1906.

Ser. No. 126,681. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Swingletrees, Doubletrees, and Tripletrees and Four-Horse Eveners for Vehicles and Swingletrees for Farm Implements.
Claims use since Jan. 1, 1919.

Ser. No. 126,684. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE FARM EQUIPMENT CO., Baltimore, Md. Filed Dec. 31, 1919.

SECURO

Particular description of goods.—Knockdown, Ready-Cut, and Portable Garages, Animal and Poultry Houses, and Tractor-Houses, Self-Feeders or Hoppers for Stock and Poultry, Portable Corn-Cribs, and Automatic Feeders.
Claims use since Jan. 1, 1919.

Ser. No. 126,769. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY M. HOWELL, New York, N. Y. Filed Jan. 3, 1920.

GREAT KO-ZO KING O' KOLDS

Particular description of goods.—A Germicide.
Claims use since Dec. 12, 1919.

Ser. No. 126,779. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Jan. 3, 1920.

APHRODITE

Particular description of goods.—Combs in Shell, Shell and Amber, Gray and Amber, and Aluminum.
Claims use since Dec. 1, 1919.

Ser. No. 126,892. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AMERICAN OIL COMPANY, Providence, R. I. Filed Jan. 7, 1920.

SAPONOIL

Particular description of goods.—An Oil Used in the Treatment of Woolen Fabrics.
Claims use since Oct. 2, 1917.

Ser. No. 126,937. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE L. LILLY, Jacksonville, Fla. Filed Jan. 8, 1920.

Flojac

Particular description of goods.—A General Tonic.
Claims use since Aug. 1, 1919.

Ser. No. 126,955. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COMET AUTOMOBILE COMPANY, Decatur, Ill. Filed Jan. 9, 1920.

COMET

Particular description of goods.—Automobiles and Motor-Trucks.
Claims use since May 1, 1916.

Ser. No. 126,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNST T. KREBS, San Francisco, Calif. Filed Jan. 9, 1920.

LEPTO CREATOL

Particular description of goods.—A Preparation for Pulmonary Tuberculosis and All Pulmonary Affections, Prepared in the Form of a Powder or Pill.
Claims use since July, 1919.

Ser. No. 126,974. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE T. D. S. CO., Pasadena, Calif. Filed Jan. 9, 1920.

TDS THE ORIGINAL TDUFFY'S SOLUTION

The background of the trade-mark being red in color, as indicated on the drawing.
Particular description of goods.—A Blood-Purifier in the Form of a Liquid Solution.
Claims use since Dec. 6, 1919.

Ser. No. 126,980. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. M. WELCH, Cleveland, Ohio. Filed Jan. 9, 1920.

LATAPEP

Particular description of goods.—A General Medicinal Tonic.
Claims use since Sept. 15, 1919.

Ser. No. 126,981. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JOSEPH H. WITTMANN, Kansas City, Mo. Filed Jan 9, 1920.

Particular description of goods.—Tents.
Claims use since July 1, 1919.

Ser. No. 126,986. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLLAPSULE COMPANY, INC., New York, N. Y. Filed Jan. 10, 1920.

BICHLORIDOL

Particular description of goods.—A Medicament for the Treatment of Malignant Blood Diseases.
Claims use since about December, 1919.

Ser. No. 126,987. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLLAPSULE COMPANY, INC., New York, N. Y. Filed Jan. 10, 1920.

SALICIDOL

Particular description of goods.—A Medicament for the Treatment of Malignant Blood Diseases.
Claims use since about December, 1919.

Ser. No. 126,999. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERNATIONAL WORSTED MILLS, Methuen, Mass. Filed Jan. 10, 1920.

Moraer

The said trade-mark consists of the word "Moraer."
Particular description of goods.—Light-Weight Fancy Worsted Cloth in the Piece.
Claims use since Nov. 15, 1919.

Ser. No. 127,001. (CLASS 39. CLOTHING.) ALEXANDER & IRWIN CO., Philadelphia, Pa., assignor to Alexander & Irwin Co., Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1920.

A-1 Alwin

No claim is made for the exclusive use of the symbol "A-1" apart from the mark shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since about Apr. 1, 1919.

Ser. No. 127,009. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) PEARSON PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 10, 1920.

HUMIDYZOR

Particular description of goods.—Tobacco-Pouches.
Claims use since Oct. 25, 1919.

Ser. No. 127,039. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BAIR-COLLINS COAL CO., Billings, Mont. Filed Jan. 12, 1920.



No claim is made to the word "Coal" apart from the mark shown on the drawing.
Particular description of goods.—Coal.
Claims use since Sept. 15, 1919.

Ser. No. 127,057. (CLASS 39. CLOTHING.) HOLMAN MANUFACTURING COMPANY, Sheboygan, Wis. Filed Jan. 12, 1920.



Particular description of goods.—Dress, Negligée, and Work Shirts, Pants, Overalls, Hosiery, Sweaters; Men's, Women's, and Children's One and Two Piece Underwear of Woven and Textile Fabric; Leather, Rubber, Fabric, and Combination Gloves; Mittens, Jerseys, Men's Scarfs, Ladies' Set-Scarfs, and Hockey-Caps.
Claims use since Oct. 1, 1919.

Ser. No. 127,059. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KILBOURNE & CLARK MANUFACTURING CO., Seattle, Wash. Filed Jan. 12, 1920.



Particular description of goods.—Motors, Generators, Rotary Converters, Radiotelegraph Apparatus, Radiotelephone Apparatus, Switchboards, Panel-Boards, Switches, Electric Rivet-Machines, Transformers, Condensers, Telephone-Transmitters, Telephone-Receivers, Searchlights, Ship-Engine-Room Telegraph Apparatus, Speed-Indicators, Helm-Angle Indicators, and Binnacles. The above-named articles are intended for use with electrical or wireless apparatus.
Claims use since Jan. 1, 1910.

Ser. No. 127,117. (CLASS 39. CLOTHING.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif., and New York, N. Y. Filed Jan. 14, 1920.

OVER-EM-ALL

Particular description of goods.—Women's Dresses and Aprons, Children's Dresses, Rompers, and Play-Suits, and Boys' Wash-Suits and Blouses.
Claims use since Mar. 17, 1915.

Ser. No. 127,120. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GARRETT AND COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 14, 1920.

Monticello

Particular description of goods.—Dealcoholized Wines.
Claims use since Sept. 6, 1919.

Ser. No. 127,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KA-DENE MEDICINE CO., Nashville, Tenn. Filed Jan. 14, 1920.

Ka-Dene
REG. U.S. PATENT OFFICE
TRADE MARK

No claim being made to the words "Reg. U. S. Patent Office" and "Trade Mark."
Particular description of goods.—An Ointment, Same Being an External Preparation for the Treatment of Skin Diseases.
Claims use since May 10, 1917.

Ser. No. 127,169. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE CELLUCOTTON PRODUCTS COMPANY, Neenah, Wis. Filed Jan. 15, 1920.

KOTEX

Particular description of goods.—Sanitary Napkins.
Claims use since on or about Aug. 15, 1919.

Ser. No. 127,181. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COMMERCIAL MILLING CO., Detroit, Mich. Filed Jan. 15, 1920.



The picture of a boy shown on the mark is merely fanciful.
Particular description of goods.—Pancake-Flour, a Composition of Flours of Various Grains and Leavening.
Claims use since on or before February, 1914.

Ser. No. 127,213. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUGENIA GOBEIL HANCOCK, New York, N. Y. Filed Jan. 16, 1920.

HEALTH PORE

Particular description of goods.—An Antiseptic and Astringent.
Claims use since Jan. 13, 1920.

Ser. No. 127,225. (CLASS 15. OILS AND GREASES.) PEOPLES OIL COMPANY, Augusta, Ga. Filed Jan. 16, 1920.

Liberty

Particular description of goods.—Lubricating Oils and Greases, Kerosene, and Gasolene.
Claims use since on or about Feb. 1, 1919.

Ser. No. 127,253. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HARRY A. MACKIE, New York, N. Y. Filed Jan. 17, 1920.

VIRAY

Particular description of goods.—Electrotherapeutical Instruments for the Treatment of Diseases, of the Violet-Ray Type.
Claims use since Jan. 22, 1918.

Ser. No. 127,264. (CLASS 31. FILTERS AND REFRIGERATORS.) THE SANIBRASS CORPORATION, Brooklyn, N. Y. Filed Jan 17, 1920.

Sanicool

Particular description of goods.—A Water-Cooler.
Claims use since Feb. 4, 1919.

Ser. No. 127,278. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE APE LINIMENT CO., Detroit, Mich. Filed Jan. 19, 1920.



Particular description of goods.—Medicines—viz., a Solution for External Application in the Treatment of Rheumatism, Neuralgia, Stiff Joints, Sprains, Bruises, and Kindred Complaints.
Claims use since July 1, 1919.

Ser. No. 127,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. L. FINNEY, Canton, Ohio. Filed Jan. 19, 1920.

Anti-Stomia

Particular description of goods.—Medicine for Dyspepsia, Heartburn, Indigestion, and other Disorders of the Stomach.
Claims use since about Dec. 17, 1919.

Ser. No. 127,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES F. KARNOFSKY, Minneapolis, Minn. Filed Jan. 19, 1920.

YOU TRY KARN'S NU BOIL SALVE

No claim being made to the words "You Try Nu Boil Salve" and "Trade Mark Reg. U. S. Pat. Off." apart from the mark shown in the drawing.
Particular description of goods.—Salves Used as an Aid in the Treatment of Boils, Pimples, Acne, Chilblains, Cuts, Carbuncles, and Wounds.
Claims use since Jan. 1, 1920.

Ser. No. 127,381. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MANTONE CO., Baltimore, Md. Filed Jan. 20, 1920.

MANTONE

Particular description of goods.—A Blood, Nerve, and Brain Tonic Composed of Iron, Nux Vomica, and Phosphorus.
Claims use since June 30, 1919.

Ser. No. 127,439. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE MASTER JEWELER, INC., New York, N. Y. Filed Jan. 21, 1920.

The Masters

Particular description of goods.—Watches.
Claims use since Dec. 31, 1919.

Ser. No. 127,450. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SCIENTIFIC MANUFACTURING CO., Scranton, Pa. Filed Jan. 21, 1920.

ALL-IN-ONE

Particular description of goods.—A Cleaning and Polishing Preparation for Glass, Metals, and for Removing Road Tars and Greases and Preventing Rust of Metal-Work.
Claims use since Mar. 1, 1915.

Ser. No. 127,452. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD VARNISH WORKS, New York, N. Y. Filed Jan. 21, 1920.

KOVERFLOR

No claim being made to the exclusive use of the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Dry, Ready-Mixed, and Paste Paints and Enamel Paints.
Claims use since Dec. 31, 1919.

Ser. No. 127,461. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN THERMOPHONE COMPANY, Boston, Mass. Filed Jan. 22, 1920.



Particular description of goods.—Telephones and Parts Thereof.
Claims use since Nov. 13, 1919.

Ser. No. 127,490. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PINCUS SELDITCH, Philadelphia, Pa. Filed Jan. 22, 1920.



Particular description of goods.—Phonographs.
Claims use since Jan. 10, 1920.

Ser. No. 127,519. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARISTYLE NOVELTY CO. INC., New York, N. Y. Filed Jan. 23, 1920.



Consisting of the representation of a woman sitting in a chair, holding a mirror in one hand, and a Cupid in the act of placing a hair-net upon her head.
Particular description of goods.—Hair-Nets.
Claims use since the 15th day of December, 1919.

Ser. No. No. 127,569. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ARC-O'-MANUFACTURING CO. INC., Chicago, Ill. Filed Jan. 26, 1920.

Arc-O

Particular description of goods.—Spark-Plugs.
Claims use since February, 1917.

Ser. No. 127,572. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AUTO METAL PARTS COMPANY, Des Moines, Iowa. Filed Jan. 26, 1920.

UNIVERSAL

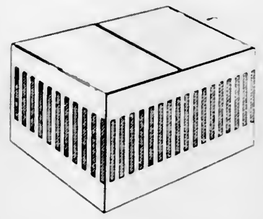
Particular description of goods.—Shutters for Radiators of Motor-Vehicles.
Claims use since February, 1918.

Ser. No. 127,587. (CLASS 10. FERTILIZERS.) THE FISHERIES PRODUCTS CO., INC., New York, N. Y. Filed Jan. 26, 1920.

FISCO

Particular description of goods.—Fertilizers.
Claims use since Jan. 6, 1920.

Ser. No. 127,596. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LINCOLN MANUFACTURING COMPANY, Detroit, Mich. Filed Jan. 26, 1920.



Consisting of a band encircling the container, composed of successively-equally-spaced equal-length parallel brown stripes perpendicular to the extent of the band, no claim being made to the representation of the container.
Particular description of goods.—Ornamental Art Electric-Lighting Fixtures.
Claims use since Nov. 10, 1919.

Ser. No. 127,633. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CLIFFORD C. CHURCH, Boston, Mass. Filed Jan. 27, 1920.

Sum-O-Sled.

Particular description of goods.—Toy Vehicles.
Claims use since Jan. 24, 1920.

Ser. No. 127,634. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JOHN E. CRONAN & CO., Portland, Me. Filed Jan. 27, 1920.



Particular description of goods.—Phonographs.
Claims use since Nov. 10, 1919.

Ser. No. 127,663. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Jan. 27, 1920.

LADY HAMILTON

Particular description of goods.—Cloth-Brushes, Bonnet-Brushes, Hat-Brushes, and Hair-Brushes.
Claims use since Jan. 1, 1919.

Ser. No. 127,680. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE B. EVANS, Philadelphia, Pa. Filed Jan. 28, 1920.

Lucile

Particular description of goods.—Toilet Powder.
Claims use since Dec. 1, 1919.

Ser. No. 127,681. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE B. EVANS, Philadelphia, Pa. Filed Jan. 28, 1920.

Amoray

Particular description of goods.—Toilet Powder.
Claims use since Dec. 1, 1919.

Ser. No. 127,694. (CLASS 39. CLOTHING.) JANET C. MCNEAL, Washington, D. C. Filed Jan. 28, 1920.



No claim being made to the words "Corset" and "Trade Mark" apart from the mark shown on the drawing.
Particular description of goods.—Corsets and Abdominal Supporters Worn as Regular Articles of Apparel.
Claims use since Jan. 23, 1920.

Ser. No. 127,696. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHAM WARREN CORPORATION, New York, N. Y. Filed Jan. 28, 1920.

CUTEX

Particular description of goods.—Cold-Cream.
Claims use since July 1, 1919.

Ser. No. 127,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNIE STEIN, San Francisco, Calif. Filed Jan. 28, 1920.

HERAVITA

Particular description of goods.—A Medicinal Preparation to be Used as a Medicinal Compound for the Treatment of Constipation, Indigestion, Weak Stomach, Liver and Kidney Disorders, Rheumatism, and Colds.
Claims use since Dec. 9, 1919.

Ser. No. 127,705. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUNBEAM CHEMICAL COMPANY, Chicago, Ill. Filed Jan. 28, 1920.

Laundry Lu

Particular description of goods.—Bluing.
Claims use since on or about Jan 15, 1920.

Ser. No. 127,706. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUNBEAM CHEMICAL COMPANY, Chicago, Ill. Filed Jan. 28, 1920.



Particular description of goods.—Bluing.
Claims use since on or about Jan. 15, 1920.

Ser. No. 127,760. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MICA CONDENSER COMPANY, LTD., Boston, Mass. Filed Jan. 30, 1920.

MIKON

Particular description of goods.—Condensers, Mica Condensers, Magneto-Condensers, Radio-Condensers, Power-Condensers, Laboratory-Condensers, and Parts Thereof.
Claims use since Jan. 14, 1920.

Ser. No. 127,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920.

HOUSE WIFE

Particular description of goods.—Wheat-Flour, Cornmeal, and Rolled Oats.
Claims use on rolled oats since July 11, 1919; on wheat-flour since Mar. 30, 1918, and on cornmeal since July 11, 1919.

Ser. No. 127,834. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE REGINA COMPANY, New York, N. Y. Filed Jan. 31, 1920.

REGINA

Particular description of goods.—Musical Instruments, as Follows: Talking-Machines, Music-Boxes and Instruments in Which a Music-Box is Combined with a Talking-Machine, Chimes, Pianos or Player-Pianos; Also Records, Disks, and Note-Sheets for Such Instruments; Also Separate Parts of Such Instruments and Supplies Therefor—Namely, Albums and Needle-Containers.
Claims use since September, 1903.

Ser. No. 127,835. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE REGINA COMPANY, New York, N. Y. Filed Jan. 31, 1920.

Regina

Particular description of goods.—Electric Vacuum-Cleaners and Parts Thereof.
Claims use since 1910.

Ser. No. 127,859. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. HOEFNER & SONS, Buffalo, N. Y. Filed Feb. 2, 1920. Under ten-year proviso.

SUNSHINE

Particular description of goods.—Soaps and Washing-Powders.
Claims use since May, 1885.

Ser. No. 127,905. (CLASS 39. CLOTHING.) ELOESSER-HEYNEMANN CO., San Francisco, Calif. Filed Feb. 3, 1920.

Kute-Kut

Particular description of goods. — Wearing-Apparel—Namely, Children's Play-Suits.
Claims use since February, 1913.

Ser. No. 127,920. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) IONITE STORAGE BATTERY CO., Worcester, Mass. Filed Feb. 3, 1920.

IONITE

Particular description of goods.—Electric Batteries and Parts Thereof.
Claims use since Sept. 1, 1919.

Ser. No. 127,930. (CLASS 43. THREAD AND YARN.) CARROLL D. NEWELL, New York, N. Y. Filed Feb. 3, 1920.



No claim being made to the word "Yarns" apart from the mark shown in the drawing.
Particular description of goods.—Yarn.
Claims use since Dec. 1, 1919.

Ser. No. 127,945. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN R. THOMPSON CO., Chicago, Ill. Filed Feb. 3, 1920. Under ten-year proviso.

Thompson's

Particular description of goods.—Crab-Apple Jelly, Plum Jam, Canned Corn, Prepared Mustard, Catsup, Pepper, Vinegar, Salad-Oil, Lemon Extract, Corn-Starch, Bread, and Cocoanut.
Claims use since 1893.

Ser. No. 127,989. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ADAMS-BAGNALL ELECTRIC CO., Cleveland, Ohio. Filed Feb. 5, 1920.

AB

Particular description of goods.—Transformers, Electric Headlights for Automobiles and Motor-Vehicles, Electric Motors and Switches, Electric Lamps, Arc-Lamps, Electric-Light-Shade Holders, Reflectors and Reflector-Holders and Supports for Electric Lamps, Gyrofans, Electric Horns, Transformers, and Machines for Marking or Writing on Metal by Electricity, and Parts of the Foregoing.
Claims use since the 7th day of November, 1915.

Ser. No. 128,012. (CLASS 5. ADHESIVES.) FRANK B. O'BRIEN, Chicago, Ill. Filed Feb. 5, 1920.

C-LER-TITE

Particular description of goods.—A Cementitious Preparation Usable in the Form of a Putty for Stopping Up and Sealing Cracks and Leaks in Iron and other Metallic Articles.
Claims use since on or about Jan. 1, 1919.

Ser. No. 128,013. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. E. PATRICK-YOUNG CO., Richmond, Va. Filed Feb. 5, 1920. Under ten-year proviso.

TODD BRAND HAM

Particular description of goods.—Hams, Bacon, and Lard.
Claims use since 1800.

Ser. No. 128,041. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CARDINAL CABINET COMPANY, Wabash, Ind. Filed Feb. 6, 1920.

THE CARDINAL

Particular description of goods.—Cabinets, Including Phonograph-Cabinets, and other Wooden Furniture.
Claims use since 1910.

Ser. No. 128,064. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHARLES E. CALBREATH, St. Louis, Mo. Filed Feb. 6, 1920.

UMP

Particular description of goods.—Metal-Polish.
Claims use since Jan. 1, 1920.

Ser. No. 128,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. C. BROWNE, Elmira, N. Y. Filed Feb. 7, 1920.

Pedigreed

Particular description of goods.—Salted Peanuts, Peanut-Butter, Coffee, Tea, Cocoa.
Claims use continuously in his business on coffee, tea, and cocoa since September, 1916, and on salted peanuts and peanut-butter since February, 1919.

Ser. No. 128,155. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN M. SEARS, Fuquay Springs, N. C. Filed Feb. 9, 1920.



Said trade-mark being a picture of myself.
Particular description of goods.—Medical Compounds for Cuts, Bruises, Burns, Sore Throat, Tonsillitis, Coughs, Colds, Catarrh, &c.
Claims use since February, 1914.

Ser. No. 128,166. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PLAZA MUSIC CO., New York, N. Y. Filed Feb. 9, 1920.

MAGNEDO

Particular description of goods.—Talking-Machine Needles.
Claims use since March, 1917.

Ser. No. 128,175. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SUPERTONE TALKING MACHINE CO., INC., New York, N. Y. Filed Feb. 9, 1920.

Supertone

Particular description of goods.—Talking-Machines and Parts Thereof.
Claims use since March, 1916.

Ser. No. 128,227. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Cleaning and Polishing Materials for Jewelry and Metal-Ware.
Claims use since 1868.

Ser. No. 128,230. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Medals of Base Metals and Art-Bronzes, Etched or Engraved Metal Plates from Which Book-Plates are Stricken Off.
Claims use since 1868.

Ser. No. 128,231. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Medals of Base Metals and Art-Bronzes, Etched or Engraved Metal Plates from Which Book-Plates are Stricken Off.
Claims use since 1868.

Ser. No. 128,254. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Shoe-Horns Not Made of Precious Metal, Button-Hooks Not Made of Precious Metal, Buckles Not Made of Precious Metal, Fans, Hatpins Not Made of Precious Metal, Bodkins Not Made of Precious Metal, Garters, Suspenders, Sleeve-Holders, and Belts for Supporting Wearing-Apparel, Crocheting-Needles, Collar-Buttons Not Made of Precious Metal, Pincushions, Combs, Hairpins.
Claims use since 1868.

Ser. No. 128,255. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & CO.

Particular description of goods.—Shoe-Horns Not Made of Precious Metal, Button-Hooks Not Made of Precious Metal, Buckles Not Made of Precious Metal, Fans, Hatpins Not Made of Precious Metal, Bodkins Not Made of Precious Metal, Crocheting-Needles, Collar-Buttons Not Made of Precious Metal, Pincushions, Combs, Hairpins, Garters, Suspenders, Sleeve-Holders, and Belts for Supporting Wearing-Apparel.
Claims use since 1868.

Ser. No. 128,284. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HIGGINS SPRING & AXLE COMPANY, Racine, Wis. Filed Feb. 11, 1920.

HIGGINS QUALITY SPRINGS

Without waiving its common-law rights, applicant makes no claim herein to the word "Quality" *per se* or to the word "Springs" apart from the mark shown by the drawing.
Particular description of goods.—Vehicle-Springs and Spring-Plates and Spring-Leaves for Such Springs.
Claims use since about Dec. 1, 1919.

Ser. No. 128,317. (CLASS 17. TOBACCO PRODUCTS.) PERFECTO MANUFACTURERS, INC., New York, N. Y. Filed Feb. 12, 1920.

CUBAROMA

Particular description of goods.—Cigars.
Claims use since Jan. 5, 1920.

Ser. No. 128,320. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PLIX LIGHT COMPANY, INC., New York, N. Y. Filed Feb. 12, 1920.

PLIX

Particular description of goods.—Motor-Driven Electric Light and Power Units.
Claims use since Aug. 2, 1919.

Ser. No. 128,459. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL ELECTRICAL SUPPLY COMPANY, Washington, D. C. Filed Feb. 16, 1920.

CALOR-EL STRIP

Particular description of goods.—Electric Heating Apparatus, and More Particularly Heating Units Adapted for Use in Electrical Heaters of All Types—Namely, Office-Heaters, Small-Room Heaters, Water-Heaters, Liquid-Heaters, Sterilizers, Plate-Warmers, Food-Warmers, Chocolate-Cookers, Candy-Cookers, Bonbon-Tables, Slab-Warmers, Laundry-Driers, Mangle-Heaters, Operating-Table Warmers, Sealing-Wax Pots, Glue-Pots, Gluing-Machines, Padding-Cement Pots, Wax-Knife Heaters, Metal-Melting Pots, Ruling-Machine Driers, Paper-Warming Ovens, Press-Head Heaters, Offset Static Removers, Armature-Drying Ovens, Motor-Driers on Job, Car-Heaters, Crane-Cab Heaters, Core-Drying Ovens, Workmen's Foot-Warmers, Watchmen's House-Warmers, Soldering-Iron Heaters, Vacuum Drying-Ovens, Exposed-Water-Pipe Heaters, Exposed-Fire-Plug Heaters, Enamel-Ovens, Bread-Baking Ovens, Battery-Composition Ovens, Storage-Battery-Head Heaters, and the Like.
Claims use since the 1st day of January, 1920.

Ser. No. 128,477. (CLASS 10. FERTILIZERS.) MAX TRUMPER, Montgomery, Ala. Filed Feb. 16, 1920.

NITROBAC

Particular description of goods.—A Pure Culture of Nitrogen-Gathering Bacteria for Inoculating Seeds Prior to Sowing.
Claims use since Jan. 15, 1920.

Ser. No. 128,510. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERNE D. LERSCH, Wellington, Ohio. Filed Feb. 17, 1920.

Cereal Goodies

Particular description of goods.—Breakfast Foods.
Claims use since January, 1918.

Ser. No. 128,525. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ADOLPHE SCHWOB, INC., New York, N. Y. Filed Feb. 17, 1920.

WELTA

Particular description of goods.—Watches and Watch-Movements.
Claims use since the 15th day of June, 1915.

Ser. No. 128,550. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE HORTON MANUFACTURING CO., Bristol, Conn. Filed Feb. 18, 1920.

RAINBOW

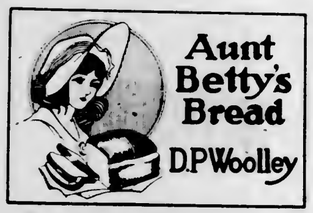
The lining on the drawing being shading only.
Particular description of goods.—Fishing-Lines.
Claims use since Jan. 21, 1920.

Ser. No. 128,601. (CLASS 31. FILTERS AND REFRIGERATORS.) HARDER MANUFACTURING CORPORATION, Cobleskill, N. Y. Filed Feb. 19, 1920.

KLEEN KOLD

Particular description of goods.—Refrigerators.
Claims use since January, 1918.

Ser. No. 128,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL P. WOOLLEY, Great Neck and New York, N. Y. Filed Feb. 19, 1920.



I hereby disclaim registration of the word "Bread." The lining appearing on the drawing submitted herewith is intended for the purpose of shading only.
Particular description of goods.—Bread.
Claims use since Jan. 30, 1920.

Ser. No. 128,644. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCTIC CREAM CO., Fremont, Nebr. Filed Feb. 20, 1920.



Particular description of goods.—Ice-Cream, Fancy Chocolates, and Creamery-Butter.
Claims use since January, 1918.

Ser. No. 128,661. (CLASS 15. OILS AND GREASES.) COLUMBIA REFINING CO., New York, N. Y. Filed Feb. 20, 1920.

COLUMBIA

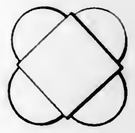
Particular description of goods.—Lubricating Oils and Greases.
Consisting of the word "Columbia."
Claims use since 1885.

Ser. No. 128,668. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) THE DECO CO., New York, N. Y. Filed Feb. 20, 1920.

DECO

Particular description of goods.—Leather Suitcases; Leather Pocket-Books; Leather Belts for Personal Wear; Leather Brief-Cases and Portfolios; Leather Trunks, and Saddles.
Claims use since Sept. 1, 1910.

Ser. No. 128,680. (CLASS 39. CLOTHING.) THOMAS H. HALL, Jersey City, N. J. Filed Feb. 20, 1920.



Particular description of goods.—Gloves of Leather and Fabric.
Claims use since Oct. 17, 1919.

Ser. No. 128,699. (CLASS 39. CLOTHING.) ABRAHAM RIFKIN, Wilkes-Barre, Pa. Filed Feb. 20, 1920.



Particular description of goods.—Work-Shirts and Overalls.
Claims use since Aug. 1, 1919.

Ser. No. 128,736. (CLASS 39. CLOTHING.) THE LIBERTY HOSIERY COMPANY, Rock Hill, S. C. Filed Feb. 21, 1920.



Particular description of goods.—Men's Half-Hose.
Claims use since Jan. 16, 1920.

Ser. No. 128,800. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FRED RUEPING LEATHER CO., Fond du Lac, Wis. Filed Feb. 24, 1920.



Particular description of goods.—Shoe and Glove Leathers—Namely, Calf, Kip, Veals, Sides, and Splits.
Claims use since Dec. 5, 1919.

Ser. No. 128,896. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARKHILL MFG. CO., Fitchburg, Mass. Filed Feb. 25, 1920.

BRAELOCH
32IN GINGHAMS

Consisting of the words "Braeloch 32in Ginghams," no claim being made to the exclusive use of the phrase "32in Ginghams" apart from the mark as shown in the drawing.
Particular description of goods.—Ginghams and Cotton Piece Goods.
Claims use since about December, 1914.

Ser. No. 128,901. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERFECTION STORAGE BATTERY CO., Chicago, Ill. Filed Feb. 25, 1920.

Jupiter

Particular description of goods.—Unitary Electric-Light Plants for Isolated or Farm Use.
Claims use since on or about Feb. 1, 1916.

Ser. No. 128,925. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. J. & G. W. HAYNES, Atlanta, Ga. Filed Feb. 26, 1920.

Del-zo

Particular description of goods.—A Cleansing Preparation for Woodwork, Metal, or Clothing.
Claims use since the 10th day of October, 1918.

Ser. No. 128,982. (CLASS 39. CLOTHING.) STERLING SHOES CORPORATION, Buffalo, N. Y. Filed Feb. 27, 1920.

£

Particular description of goods.—Leather, Fabric, and Combinations of Leather and Fabric Boots and Shoes.
Claims use since Sept. 3, 1917.

Ser. No. 129,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR CO., Denver, Colo. Filed Feb. 28, 1920.



Wherein exclusive use of the word "Flour" is disclaimed except in association with the mark as shown.
Particular description of goods.—Wheat-Flour.
Claims use since July, 1919.

Ser. No. 129,050. (CLASS 46. FOODS AND INGREDIENTS OF FOOD.) CREAM PRODUCTS CO., Peoria, Ill. Filed Mar. 1, 1920.

Albatross

Particular description of goods.—Candies.
Claims use since the 15th day of January, 1920.

Ser. No. 129,051. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CREAM PRODUCTS CO., Peoria, Ill. Filed Mar. 1, 1920.

Topsy

Particular description of goods.—Candies.
Claims use since the 15th day of January, 1920.

Ser. No. 129,053. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FULGHUM & COMPANY, Los Angeles, Calif. Filed Mar. 1, 1920.

Turbanette

Particular description of goods.—Hair-Nets.
Claims use since Jan. 12, 1914.

Ser. No. 129,083. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE RITCHIE-WEBTZ MANUFACTURING COMPANY, Dayton, Ohio. Filed Mar. 1, 1920.

RITEFLYER

Particular description of goods.—Toy Airplanes.
Claims use since Feb. 1, 1920.

Ser. No. 129,188. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PRECISION EQUIPMENT CO., Cincinnati, Ohio. Filed Mar. 3, 1920.

ACE

Particular description of goods.—Wireless Apparatus—Namely, Vacuum-Tube Sockets, Audion Control Apparatus, Radio Receiving Sets, Radio Tuning Sets, Radiotelephone-Transmitters, Radiotelegraph-Transmitters, Electrical Condensers, Binding-Posts, Audion Frequency-Transformers, Undamped-Wave Transmitters, Audion-Tube Receptacles, Indicating-Dials for Electrical Apparatus, and Grid-Leaks.
Claims use since Jan. 1, 1918.

Ser. No. 129,290. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STANWOOD MOTOR CAR COMPANY, St. Louis, Mo. Filed Mar. 5, 1920.

STANWOOD MOTOR CAR CO — STANWOOD — SAINT LOUIS

No claim is made to the words "Motor Car Company" and "Saint Louis," and no claim is made to the word "Stanwood" apart from the mark shown in the drawing.
Particular description of goods.—Automobiles Used for Pleasure and in Business and Motor-Trucks.
Claims use since July 6, 1919.

Ser. No. 129,327. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KANDYKRAFT KORPORATION, New York, N. Y. Filed Mar. 6, 1920.

Kandykraft

No claim is made to the use of the word "Kandy" apart from the other features of the mark.
Particular description of goods.—Chocolate.
Claims use since Feb. 1, 1920.

Ser. No. 129,334. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NEATSOL PRODUCTS COMPANY, Philadelphia, Pa. Filed Mar. 6, 1920.

NEPCO PRODUCTS

No claim being made to the word "Products" apart from the mark shown in the drawing.
Particular description of goods.—Leather-Belt Preservatives and Rubber-Belt Preservatives.
Claims use since Feb. 11, 1920.

Ser. No. 129,511. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JOHN H. MOBERG, Chicago, Ill. Filed Mar. 10, 1920.

ASCO

Particular description of goods.—Automobile-Springs.
Claims use since Feb. 1, 1920.

Ser. No. 129,513. (CLASS 39. CLOTHING.) SAMUEL W. PECK & CO., New York, N. Y. Filed Mar. 10, 1920.

I SERVE
The Prince of Wales

Particular description of goods.—Young Men's Three-Piece Suits.
Claims use since September, 1919.

Ser. No. 129,514. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCRANTON DISTRIBUTING AND MFG. CO., Scranton, Pa. Filed Mar. 10, 1920.

BRO-WAL

Particular description of goods.—Bitter-Wine Tonic for Medicinal Purposes.
Claims use since Nov. 26, 1919.

Ser. No. 129,541. (CLASS 39. CLOTHING.) DIAMOND SHOE CO., New York, N. Y. Filed Mar. 11, 1920.

POMEROY

Particular description of goods.—Men's and Women's Boots, Shoes, and Slippers Made Wholly or in Part of Leather and Fabric.
Claims use since Dec. 1, 1919.

Ser. No. 129,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRANGE MILLING COMPANY, New Douglas, Ill. Filed Mar. 11, 1920.

DEPOSIT

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 4, 1919.

Ser. No. 129,628. (CLASS 5. ADHESIVES.) M. FEIGEL & BRO. INC., New York, N. Y. Filed Mar. 13, 1920. Under ten-year proviso.

STIXFAST

Particular description of goods.—Glue.
Claims use since Jan. 2, 1891.

Ser. No. 129,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

NORSE CROWN

Particular description of goods.—Sardines.
Claims use since about 1914.

Ser. No. 129,690. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed Mar. 13, 1920.

WONDER

Particular description of goods.—Pulleys.
Claims use since Mar. 6, 1920.

Ser. No. 129,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JONES & PETTIGREW, San Francisco, Calif. Filed Mar. 15, 1920.

RIVER MAID

Particular description of goods.—Fresh Fruits—Namely, Pears.
Claims use since Feb. 10, 1920.

Ser. No. 129,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY A. JONES, Baltimore, Md. Filed Mar. 15, 1920.

KING GEORGE

Particular description of goods.—Tea.
Claims use since Feb. 1, 1912.

Ser. No. 129,726. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KING-KEEN CO., New York, N. Y. Filed Mar. 15, 1920.

KING KEEN

Particular description of goods.—Stropping Devices for Safety-Razor Blades.
Claims use since Nov. 1, 1919.

Ser. No. 129,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PUYALLUP AND SUMNER FRUIT GROWERS CANNING CO., Puyallup, Wash. Filed Mar. 15, 1920.

PAUL'S



Particular description of goods.—Canned Fruits, Crushed Fruits, Fruit Preserves, and Fruit Jams.
Claims use since June 1, 1908.

Ser. No. 129,747. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REDEL CANDY CORPORATION, Milwaukee, Wis. Filed Mar. 15, 1920.

SWEET PATOOTIE

Particular description of goods.—Candy.
Claims use since Jan. 10, 1920.

Ser. No. 129,748. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REDEL CANDY CORPORATION, Milwaukee, Wis. Filed Mar. 15, 1920.



Particular description of goods.—Candy.
Claims use since Jan. 10, 1920.

Ser. No. 129,749. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REDEL CANDY CORPORATION, Milwaukee, Wis. Filed Mar. 15, 1920.



Particular description of goods.—Candy.
Claims use since Jan. 10, 1920.

Ser. No. 129,750. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REDEL CANDY CORPORATION, Milwaukee, Wis. Filed Mar. 15, 1920.



Particular description of goods.—Candy.
Claims use since Jan. 10, 1920.

Ser. No. 129,767. (CLASS 39. CLOTHING.) WEINROD & KAEMPFER, INC., New York, N. Y. Filed Mar. 15, 1920.

Winak

Consisting of the word "Winak."
Particular description of goods.—Leather, Fabric, Silk, Wool, and Cotton Gloves for Ladies, Misses, Men, Boys, and Children; Ladies' Knit Underwear of Cotton, Wool, Silk, and Combinations of the Same; Hosiery of Cotton, Wool, and Silk and Combinations of the Same.
Claims use since June 1, 1919.

Ser. No. 129,770. (CLASS 39. CLOTHING.) THE WISE, SHAW & FEDER COMPANY, Cincinnati, Ohio. Filed Mar. 15, 1920.

TAILORED

Particular description of goods.—Shoes.
Claims use since January, 1917.

Ser. No. 129,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LYNN L. BOWLES, Franconia, N. H. Filed Mar. 16, 1920.

RIVERSIDE

The word "Riverside."
Particular description of goods.—Maple-Sugar.
Claims use since August, 1919.

Ser. No. 129,780. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM J. FIKES, St. Louis, Mo. Filed Mar. 16, 1920.

U-Like

Particular description of goods.—Pudding-Powder.
Claims use since January, 1920.

Ser. No. 129,789. (CLASS 39. CLOTHING.) THE MARATHON TIRE AND RUBBER COMPANY, Cuyahoga Falls, Ohio. Filed Mar. 16, 1920.

VICTORY

The word "Victory."
Particular description of goods.—Composition Heels, Soles, and Taps.
Claims use since May 15, 1919.

Ser. No. 129,791. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ALLEN MICA CO., New York, N. Y. Filed Mar. 16, 1920.

Allenruby

Particular description of goods.—Phonograph-Diaphragms.
Claims use since Sept. 1, 1918.

Ser. No. 129,812. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUCHARD, S. A., Serrieres, Switzerland. Filed Mar. 16, 1920.

BITTRA

Particular description of goods.—Chocolate.
Claims use since 1914.

Ser. No. 129,827. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) JOHN U. BURT INC., New York, N. Y. Filed Mar. 17, 1920.

JUB

Particular description of goods.—Umbrellas.
Claims use since Mar. 2, 1920.

Ser. No. 129,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED L. FREDEN, Brooklyn, N. Y. Filed Mar. 17, 1920.

BEVEX

Particular description of goods.—Bouillon-Cubes.
Claims use since Mar. 8, 1920.

Ser. No. 129,860. (CLASS 39. CLOTHING.) NU-TEX HOSIERY CO., INC., Utica, N. Y. Filed Mar. 17, 1920.



Particular description of goods.—Men's and Women's Hosiery of Wool, Cotton, Silk, and Mixtures of the Same.
Claims use since September, 1919.

Ser. No. 129,905. (CLASS 39. CLOTHING.) E. W. ROBISCHON, INC., New York, N. Y. Filed Mar. 18, 1920.

ROMAY

Consisting of the word "Romay."
Particular description of goods.—Men's and Women's Hosiery of Wool, Cotton, Silk, and Mixtures of the Same.
Claims use since Aug. 15, 1919.

Ser. No. 129,925. (CLASS 39. CLOTHING.) ELGART SPECIALTY CLOTHING CO., New York, N. Y. Filed Mar. 19, 1920.

EL-CORDETTE

Particular description of goods.—Boys' Corduroy, Wash, Linen, Woolen, and Worsted Suits and Boys' Knickerbockers.
Claims use since February, 1917.

Ser. No. 129,930. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE HIND & HARRISON PLUSH CO., New York and Clark Mills, N. Y. Filed Mar. 19, 1920.

POLASEAL

Particular description of goods.—Pile-Fabric Piece Goods.
Claims use since Mar. 10, 1920.

Ser. No. 129,935. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEVER BROTHERS COMPANY, Cambridge, Mass. Filed Mar. 19, 1920.

COOKET

Particular description of goods.—A Cooking Compound Comprising Oils and Hydrogenated Oils.
Claims use since Mar. 10, 1920.

Ser. No. 129,946. (CLASS 39. CLOTHING.) MORRIS ISAAC & SONS, Cincinnati, Ohio. Filed Mar. 19, 1920.

HEALTHRIB

Particular description of goods.—Union-Suits, Shirts, and Drawers.
Claims use since June, 1919.

Ser. No. 129,954. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWEET CANDY CO., Salt Lake City, Utah. Filed Mar. 19, 1920.



Particular description of goods.—Candy.
Claims use since July 1, 1919.

Ser. No. 130,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALASKA SALMON CO., San Francisco, Calif. Filed Mar. 22, 1920.

ICE-KIST

Particular description of goods.—Canned Fish, Salted Fish, and Pickled Fish.
Claims use since Mar. 15, 1919.

Ser. No. 130,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN-MEXICAN PACKING COMPANY, Wilmington, Calif. Filed Mar. 22, 1920.

SURETY

Particular description of goods.—Canned Fish—Namely, Canned Tuna and Canned Sardines.
Claims use since Dec. 1, 1918.

Ser. No. 130,054. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POLLODORO RESTAURANT CO., INC., New York, N. Y. Filed Mar. 22, 1920.

POLLODORO

Particular description of goods.—Cold Meats—Namely, Roast Chicken, Roast Beef, Roast Lamb, and Roast Pork.
Claims use since about Mar. 15, 1920.

Ser. No. 130,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN JOSE CANNING CO., San Jose, Calif. Filed Mar. 22, 1920.

ALUM ROCK

Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since July 1, 1919.

Ser. No. 130,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN JOSE CANNING CO., San Jose, Calif. Filed Mar. 22, 1920.

CLEARCUT BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since July 1, 1919.

Ser. No. 130,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUSSELL & COMPANY, INCORPORATED, Cambridge, Mass. Filed Mar. 23, 1920.

Little Millionaire

Particular description of goods.—Candy.
Claims use since August, 1915.

Ser. No. 130,108. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA PHONOGRAPH CORPORATION, New York, N. Y. Filed Mar. 23, 1920.

Sonora

Particular description of goods.—Sound-Records for Phonographs and Talking-Machines.
Claims use since on or about Dec. 1, 1919.

Ser. No. 130,109. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Mar. 23, 1920.

PATTI

Particular description of goods.—Talking-Machines, Phonographs, Gramophones, Graphophones, and Music-Boxes.
Claims use since on or about Jan. 30, 1920.

Ser. No. 130,110. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN R. THOMPSON CO., Chicago, Ill. Filed Mar. 23, 1920.

ROMA

Particular description of goods.—Coffee.
Claims use since Nov. 1, 1919.

Ser. No. 130,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis. Filed Mar. 24, 1920.

BAUT

Particular description of goods.—Candy.
Claims use since Feb. 2, 1920.

Ser. No. 130,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HORMEL MILLING COMPANY, Austin, Minn. Filed Mar. 25, 1920.

HORMEL'S QUALITY

The disk in the center being colored red and no claim being made for the word "Quality" apart from the other features of the mark.
Particular description of goods.—Wheat-Flour.
Claims use since the 1st day of April, 1919.

Ser. No. 130,184. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Mrs. B. F. TILLEY JR., Jamestown, R. I. Filed Mar. 25, 1920.

CLIPPER CANDIES

The word "Candies" not being claimed.
Particular description of goods.—Chocolates, (Mixed,) Assorted Caramels, Chocolate Peppermints, Bonbons, Glacé Nuts, and Barley Toys.
Claims use since Jan. 5, 1920.

Ser. No. 130,235. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PENN MFG. CO., Kansas City, Mo. Filed Mar. 26, 1920.

Penn

Particular description of goods.—Spark-Plugs.
Claims use since Dec. 1, 1919.

Ser. No. 130,237. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. J. POWERS & CO., INC., Dover, Del., and Philadelphia, Pa. Filed Mar. 26, 1920.

Tips

Particular description of goods.—Candies.
Claims use since Feb. 1, 1920.

Ser. No. 130,250. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WARDWELL BRAIDING MACHINE COMPANY, Central Falls, R. I. Filed Mar. 26, 1920.

WARDWELLIAN

Particular description of goods.—Braiding-Machines and Parts Thereof.
Claims use since Mar. 17, 1920.

Ser. No. 130,269. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSOLIDATED COMPANIES, INC., Plaquemine, Morgan City, St. Martinville, New Roads, and White Castle, La. Filed Mar. 27, 1920.

The background being lined for red.
Particular description of goods.—Canned Corn, Tomatoes, Peas, Canned Oysters and Shrimp, and Canned Syrup.
Claims use since 1914, except on oysters, upon which the mark has been used since Jan. 8, 1920.

Ser. No. 130,276. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOPEDALE MANUFACTURING COMPANY, Milford, Mass. Filed Mar. 27, 1920.

NOR-DRAY

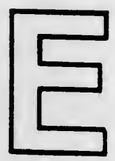
Particular description of goods.—Looms, Loom-Temples and other Parts of Looms, and Attachments for Looms.
Claims use since on or about Oct. 5, 1915.

Ser. No. 130,312. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN "E" PRODUCTS COMPANY, Minneapolis, Minn. Filed Mar. 29, 1920.



Particular description of goods.—Soups, as Follows: Cream of Celery, Cream of Oats, Cream of Barley, Cream of Onion, Cream of Tomato, Pea with Rice, Pea, Bean; Rice, Vegetables; Rice; Oats, Household; Purée of Lentils.
Claims use since on or about Mar. 15, 1920.

Ser. No. 130,313. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN "E" PRODUCTS COMPANY, Minneapolis, Minn. Filed Mar. 29, 1920.



Particular description of goods.—Soups, as Follows: Cream of Celery, Cream of Oats, Cream of Barley, Cream of Onion, Cream of Tomato, Pea with Rice, Pea, Bean; Rice, Vegetables; Rice; Oats, Household; Purée of Lentils.
Claims use since on or about Mar. 15, 1920.

Ser. No. 130,321. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. M. COSBY FLOUR & GRAIN CO., Birmingham, Ala. Filed Mar. 29, 1920.



Particular description of goods.—Cornmeal.
Claims use since Feb. 23, 1920.

Ser. No. 130,327. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JUDAH PIERCE GRAY, Nampa and Emmett, Idaho. Filed Mar. 29, 1919.



No claim being made for "Best in the West Fruit" apart from the mark shown.
Particular description of goods.—Fresh Apples.
Claims use since about Oct. 27, 1919.

Ser. No. 130,432. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE RAMEY MFG. COMPANY, Columbus, Ohio. Filed Mar. 31, 1920.

RAYVAC

The word "Rayvac."
Particular description of goods.—Electric Vacuum Cleaners.
Claims use since Jan. 1, 1920.

Ser. No. 130,552. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIÉTÉ RODIER, Paris, France. Filed Apr. 2, 1920.

KASHANGORA

Particular description of goods.—Velvet, Wool, and Cashmere Piece Goods.
Claims use since the 11th of February, 1920.

Ser. No. 130,553. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIÉTÉ RODIER, Paris, France. Filed Apr. 2, 1920.

AGNELLA

Particular description of goods.—Woolen and Cotton Piece Goods.
Claims use since Jan. 26, 1914.

Ser. No. 130,554. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIÉTÉ RODIER, Paris, France. Filed Apr. 2, 1920.

KASHAVELLA

Particular description of goods.—Velvet, Wool, and Cashmere Piece Goods.
Claims use since the 11th of February, 1920.

Ser. No. 130,558. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINFIELD SCOTT TAYLOR, Trenton, N. J. Filed Apr. 2, 1920. Under ten-year proviso.

TAYLOR'S
HOREHOUND
BALSAM

Particular description of goods.—Medicinal Preparation for the Treatment of Coughs, Croup, and Whooping-Cough.
Claims use since Oct. 7, 1885.

Ser. No. 130,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TYLER & COMPANY, Junction City, Kans. Filed Apr. 2, 1920.

TYCO

BEST

No claim being made to the word "Best" apart from the mark shown.
Particular description of goods.—Hard-Wheat Flour.
Claims use since 1912.

Ser. No. 130,655. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

CRI DE PARIS

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 130,656. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

LISETTE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 130,657. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

VAPOREUSE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 130,659. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

FOLLETTE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 130,660. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

FANTINE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 130,661. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

HAVANETTE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 130,797½. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. H. BECKER, Baltimore, Md. Filed Apr. 8, 1920.

Petso

Particular description of goods.—Potato Chips, Doughnuts, Zwieback.
Claims use since Feb. 1, 1916.

Ser. No. 130,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GLIDDEN NUT BUTTER COMPANY, Chicago, Ill. Filed Apr. 9, 1920.

DINNER BELL

Particular description of goods.—Oleomargarin.
Claims use since Feb. 5, 1920.

Ser. No. 130,891. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GLIDDEN NUT BUTTER COMPANY, Chicago, Ill. Filed Apr. 9, 1920



Particular description of goods.—Oleomargarin.
Claims use since Feb. 5, 1920.

Ser. No. 130,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUTUAL CREAMERY COMPANY, Salt Lake City, Utah. Filed Apr. 9, 1920.

Paro Seal

Particular description of goods.—Eggs Subjected to a Preservative Process.
Claims use since Mar. 1, 1919.

Ser. No. 131,260. (CLASS 43. THREAD AND YARN.) DE LUXE THREAD CORP., New York, N. Y. Filed Apr. 17, 1920.

DETREO

Consisting of the word "Detreo."
Particular description of goods.—Sewing-Cotton.
Claims use since Mar. 19, 1920.

Ser. No. 131,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. C. SUNDERLAND, Norwood, Pa. Filed Apr. 20, 1920.

DADDY'S SALVE

No claim being made to the use of the word "Salve" apart from the mark shown on the drawing.
Particular description of goods.—Salve for Burns, Bruises, Bunions, Catarrh, Cuts, Chilblains, Piles, Wounds, Scalds, Sprains, Chapped Hands, and Frosted Feet.
Claims use since July, 1917.

Ser. No. 131,722. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOE LITTLE BEAR, Philadelphia, Pa. Filed Apr. 28, 1920.



CREAT BEAR

The portrait shown being that of the applicant.
Particular description of goods.—A Liniment for Rheumatism, Lumbago, Lame Back, Stiff Joints, Sprains, Headache, Earache, Toothache, and Neuralgia.
Claims use since March, 1918.

TRADE-MARK REGISTRATIONS GRANTED

MAY 25, 1920.

131,685. TALCUM POWDERS, FACE-POWDERS, TOILET WATERS, PERFUMES, COLD-CREAMS, AND VANISH-CREAMS. THE AGRA COMPANY, Detroit, Mich.
Filed October 31, 1919. Serial No. 124,381. PUBLISHED MARCH 9, 1920.

131,686. PREPARED FOOD PRODUCTS—NAMELY, MAYONNAISE DRESSING, LEMON-PIE FILLING, CHOCOLATE PUDDING, PICCALILLI, MARMALADE, OLIVE-OIL. JAMES A. AICARDI & SONS, Boston, Mass.
Filed November 10, 1919. Serial No. 124,704. PUBLISHED MARCH 2, 1920.

131,687. AUTOMOBILES, AUTOMOBILE-TRUCKS, AND SUSPENSION-CYLINDERS THEREFOR. AIR-O-FLEX AUTOMOBILE CORPORATION, Detroit, Mich.
Filed August 9, 1918. Serial No. 112,640. PUBLISHED OCTOBER 29, 1918.

131,688. AUTOMOBILES, AUTOMOBILE-TRUCKS, AND SUSPENSION-CYLINDERS THEREFOR. AIR-O-FLEX AUTOMOBILE CORPORATION, Detroit, Mich.
Filed August 16, 1918. Serial No. 112,742. PUBLISHED APRIL 15, 1919.

131,689. GINGER-ALE, CREAM-SODA, SARSAPARILLA, AND OTHER FRUIT-FLAVORED NON-ALCOHOLIC NON-CEREAL MALTLESS CARBONATED BEVERAGES. ALPINE CO., INC., New York, N. Y.
Filed September 27, 1919. Serial No. 123,199. PUBLISHED JANUARY 6, 1920.

131,690. CARBONATED NON-ALCOHOLIC MALTLESS NON-CEREAL BEVERAGE. ALPINE CO., INC., New York, N. Y.
Filed November 26, 1919. Serial No. 125,312. PUBLISHED FEBRUARY 10, 1920.

131,691. ANTICORROSIVE, ANTIFOULING, AND MIXED PAINTS. AMALGAMATED PAINT CO., New York, N. Y.
Filed August 16, 1919. Serial No. 121,703. PUBLISHED FEBRUARY 16, 1920.

131,692. GUANO. THE AMERICAN AGRICULTURAL CHEMICAL CO., New York, N. Y.
Filed December 23, 1919. Serial No. 126,341. PUBLISHED MARCH 2, 1920.

131,693. CERTAIN NAMED OPTICAL GOODS AND PARTS THEREOF AND MEASURING APPLIANCES. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed February 19, 1919. Serial No. 115,969. PUBLISHED FEBRUARY 24, 1920.

131,694. PAPETERIE-PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 8, 1919. Serial No. 125,682. PUBLISHED FEBRUARY 24, 1920.

131,695. PAPETERIE-PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 8, 1919. Serial No. 125,683. PUBLISHED FEBRUARY 24, 1920.

131,696. PAPETERIE-PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 8, 1919. Serial No. 125,686. PUBLISHED FEBRUARY 24, 1920.

131,697. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 8, 1919. Serial No. 125,687. PUBLISHED FEBRUARY 24, 1920.

131,698. PAPETERIE-PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 8, 1919. Serial No. 125,688. PUBLISHED FEBRUARY 24, 1920.

131,699. PAPETERIE-PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 8, 1919. Serial No. 125,690. PUBLISHED FEBRUARY 24, 1920.

131,700. MALT BEVERAGES CONTAINING LESS THAN FIVE ONE-HUNDREDTHS PER CENT. ALCOHOL BY VOLUME. ANZAC COMPANY, Boston, Mass.
Filed August 18, 1919. Serial No. 121,733. PUBLISHED DECEMBER 9, 1919.

131,701. NON-ALCOHOLIC SYRUPS MANUFACTURED FROM FRUIT-JUICES AND USED IN THE MAKING OF SOFT DRINKS. ANZAC COMPANY, Boston, Mass.
Filed December 3, 1919. Serial No. 125,524. PUBLISHED FEBRUARY 24, 1920.

131,702. TALKING-MACHINE RECORDS AND MUSIC-ROLL ENDS. THE ARTO CO., Orange, N. J.
Filed October 21, 1919. Serial No. 124,037. PUBLISHED FEBRUARY 17, 1920.

131,703. CERTAIN NAMED OILS AND GREASES. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed October 6, 1919. Serial No. 123,468. PUBLISHED FEBRUARY 10, 1920.

131,704. KEROSENE AND CANDLES. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed October 6, 1919. Serial No. 123,470. PUBLISHED FEBRUARY 10, 1920.

131,705. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES, PLAIN AND CARBONATED, AND NON-ALCOHOLIC FRUIT SYRUP FOR MAKING THE SAME. WILLIAM BACHRACH, Oakland, Calif.
Filed September 25, 1919. Serial No. 123,104. PUBLISHED JANUARY 6, 1920.

131,706. CERTAIN NAMED TOILET PREPARATIONS. H. L. BAKER & CO., Rochester, N. Y.
Filed September 26, 1919. Serial No. 123,195. PUBLISHED MARCH 9, 1920.

131,707. FILTER-PAPER. W. & R. BALSTON, LIMITED, Maidstone, England.
Filed November 29, 1919. Serial No. 125,417. PUBLISHED FEBRUARY 24, 1920.

131,708. STRIPPING-POWDER, BLEACHING-POWDER, DECOLORIZER, AND REMOVER OF COLORS AND DYES FROM FABRICS. LOUIS S. BELLER, New York, N. Y.
Filed October 7, 1919. Serial No. 123,511. PUBLISHED FEBRUARY 3, 1920.

131,709. ELECTRIC-LIGHTING PLANTS. BLACK SWAN COMPANY, Waseca, Minn.
Filed September 29, 1919. Serial No. 123,237. PUBLISHED FEBRUARY 24, 1920.

131,710. CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. JOHN W. BOLTON AND SONS, INC., Lawrence, Mass.
Filed November 7, 1919. Serial No. 124,652. PUBLISHED FEBRUARY 24, 1920.

131,711. TOILET POWDER. GEORGE BORGFELDT & CO., New York, N. Y.
Filed October 4, 1919. Serial No. 123,418. PUBLISHED JANUARY 27, 1920.

131,712. SHOES OF LEATHER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. BOYDEN SHOE MANUFACTURING COMPANY, Newark, N. J.
Filed September 26, 1919. Serial No. 123,156. PUBLISHED MARCH 2, 1920.

131,713. SPARK-PLUGS. THE BREWSTER-GOLDSMITH CORP. INC., New York, N. Y.
Filed June 24, 1919. Serial No. 119,927. PUBLISHED MARCH 2, 1920.

131,714. PREPARED CALCIMINE, COLD-WATER AND OIL PAINTS, ENAMEL PAINTS, AND VARNISHES. THE CHARLES H. BROWN PAINT COMPANY, Brooklyn, N. Y.
Filed September 12, 1919. Serial No. 122,581. PUBLISHED FEBRUARY 3, 1920.

131,715. INSECTICIDE. ROBERT E. BUCHTEL, Omaha, Nebr.
Filed October 4, 1919. Serial No. 123,416. PUBLISHED MARCH 2, 1920.

131,716. LIQUID COMPOUNDS WHICH ARE USED FOR FLOOR-OILS. JOSEPH WARREN BULLEN, Folcroft, Pa.
Filed September 5, 1919. Serial No. 122,327. PUBLISHED JANUARY 6, 1920.

131,717. NAPPED COTTON SHIRTINGS. BURTON BROS. & Co., New York, N. Y.
Filed September 6, 1919. Serial No. 122,388. PUBLISHED FEBRUARY 10, 1920.

131,718. HOSIERY FOR MEN, WOMEN, AND CHILDREN. THE CAMPE CORPORATION, New York, N. Y.
Filed August 30, 1919. Serial No. 122,152. PUBLISHED MARCH 2, 1920.

131,719. PETROLEUM PRODUCTS—NAMELY, FUEL-OIL, LUBRICATING-OIL, LUBRICATING-GREASES. CARSON PETROLEUM COMPANY, Chicago, Ill.
Filed March 17, 1919. Serial No. 116,644. PUBLISHED JANUARY 6, 1920.

131,720. FURNITURE AND AUTOMOBILE POLISHES. CENTRAL AUTO SUPPLY CO., Washington, D. C.
Filed May 7, 1919. Serial No. 118,219. PUBLISHED DECEMBER 2, 1919.

131,721. WOMAN'S OUTER GARMENT OR WRAP. L. C. CHASE & COMPANY, Boston, Mass.
Filed June 17, 1919. Serial No. 119,702. PUBLISHED MARCH 2, 1920.

131,722. WOOLEN AND COTTON PIECE GOODS. CHINA & JAPAN TRADING COMPANY, LIMITED, New York, N. Y.
Filed March 4, 1918. Serial No. 109,351. PUBLISHED OCTOBER 8, 1918.

131,723. LUBRICATING OILS AND GREASES. THE FRED G. CLARK CO., Cleveland, Ohio.
Filed November 24, 1919. Serial No. 125,224. PUBLISHED FEBRUARY 10, 1920.

131,724. CERTAIN NAMED CLOTHING. A. J. COCCARO & Co., New York, N. Y.
Filed December 28, 1918. Serial No. 114,845. PUBLISHED MARCH 2, 1920.

131,725. FERTILIZER. COE-MORTIMER COMPANY, New York, N. Y.
Filed December 23, 1919. Serial No. 126,350. PUBLISHED MARCH 2, 1920.

131,726. LITHOPONE. COLLINSVILLE ZINC CORPORATION, Collinsvills, Ill.
Filed September 29, 1919. Serial No. 123,240. PUBLISHED FEBRUARY 10, 1920.

131,727. TOWELS AND TOWELING. CONVERSE & COMPANY, New York, N. Y.
Filed April 10, 1918. Serial No. 110,088. PUBLISHED DECEMBER 17, 1918.

131,728. BOOTS OR SHOES MADE OF OR CONTAINING RUBBER. THE CONVERSE RUBBER SHOE COMPANY, Malden, Mass.
Filed September 27, 1919. Serial No. 123,202. PUBLISHED MARCH 2, 1920.

131,729. CHOCOLATES. CLARENCE A. CRANE, Cleveland, Ohio.
Filed December 20, 1919. Serial No. 126,273. PUBLISHED MARCH 2, 1920.

131,730. MUSIC-ROLL ENDS. GEORGE J. CROSMAN, Newark, N. J.
Filed October 21, 1919. Serial No. 124,044. PUBLISHED FEBRUARY 17, 1920.

131,731. COSMETICS FOR THE HAIR, HAIR-OILS, PERFUMES, TOOTH-PASTE, TOOTH-POWDERS, TOILET POWDERS, HAIR-WASHES. THE CROWN PERFUMERY COMPANY, New York, N. Y.
Filed January 3, 1919. Serial No. 114,970. PUBLISHED APRIL 22, 1919.

131,732. SALT. CRYSTALINE SALT COMPANY, Jersey City, N. J., and Boston, Mass.
Filed June 12, 1919. Serial No. 119,499. PUBLISHED SEPTEMBER 30, 1919.

131,733. LUBRICATING OILS AND GREASES AND LUBRICATING CUTTING COMPOUNDS. DALJAR MFG. CO., Boston, Mass.
Filed December 16, 1919. Serial No. 126,113. PUBLISHED MARCH 2, 1920.

131,734. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. EDMUND J. DELAHANTY, Fall River, Mass.
Filed October 15, 1919. Serial No. 123,795. PUBLISHED FEBRUARY 10, 1920.

131,735. COFFEE SUBSTITUTE COMPOSED OF CORN, WHEAT, AND OTHER VEGETABLES. W. W. DEVORE, Cincinnati, Ohio.
Filed December 8, 1919. Serial No. 125,693. PUBLISHED MARCH 2, 1920.

131,736. CERTAIN NAMED INSULATING MATERIALS FOR ELECTRICAL PURPOSES. J. E. DOCKENDORFF & Co., INC., New York, N. Y.
Filed September 5, 1919. Serial No. 122,344. PUBLISHED MARCH 2, 1920.

131,737. CERTAIN NAMED HARDWARE, PLUMBING, AND STEAM-FITTING SUPPLIES. R. J. DONOVAN CO., OF NEW YORK, INC., New York, N. Y.
Filed November 2, 1917. Serial No. 107,109. PUBLISHED FEBRUARY 24, 1920.

131,738. CERTAIN NAMED ELECTRICAL GOODS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed October 31, 1919. Serial No. 124,392. PUBLISHED MARCH 2, 1920.

131,739. RESISTANCE MATERIAL IN SHEETS, STRIPS, STRANDS, AND ROLLED AND FLATTENED WIRE FOR ELECTRIC-RESISTANCE ELEMENTS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed November 6, 1919. Serial No. 124,596. PUBLISHED MARCH 2, 1920.

131,740. FABRIC PUTTEES. EATON RAPIDS WOOLEN MILLS, Eaton Rapids, Mich.
Filed October 23, 1919. Serial No. 124,099. PUBLISHED MARCH 2, 1920.

131,741. STEEL CASTINGS AND STEEL FORGINGS. EDGEWATER STEEL COMPANY, Pittsburgh, Pa.
Filed July 11, 1918. Serial No. 112,060. PUBLISHED FEBRUARY 10, 1920.

131,742. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. EGAN, RONAN, HAUSMAN COMPANY, INCORPORATED, Brooklyn, N. Y.
Filed October 25, 1919. Serial No. 124,173. PUBLISHED FEBRUARY 3, 1920.

131,743. ELECTRIC WELDING-MACHINES. ELECTRIC WELDING MACHINE CO., Detroit, Mich.
Filed November 19, 1919. Serial No. 125,083. PUBLISHED FEBRUARY 10, 1920.

131,744. WATER. ELECTRIFIED WATER AND MACHINE COMPANY, Dallas, Tex.
Filed October 8, 1919. Serial No. 123,538. PUBLISHED FEBRUARY 3, 1920.

131,745. CASCARA PREPARATIONS. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed October 11, 1919. Serial No. 123,697. PUBLISHED MARCH 2, 1920.

131,746. SODIUM-SALICYLATE PREPARATIONS. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed October 11, 1919. Serial No. 123,699. PUBLISHED MARCH 2, 1920.

131,747. ANTI-EPILEPTIC, ANTICEPHALALGIC, HYPNOTIC, AND SEDATIVE PREPARATIONS. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed October 11, 1919. Serial No. 123,700. PUBLISHED MARCH 2, 1920.

131,748. HOSIERY. ENCORE HOSIERY CO., New York, N. Y.
Filed October 3, 1919. Serial No. 123,386. PUBLISHED MARCH 2, 1920.

131,749. CERTAIN NAMED MACHINERY FOR SUGAR AND OTHER MILLS AND OTHER NAMED MACHINES AND PARTS THEREOF. FARREL FOUNDRY & MACHINE COMPANY, Ansonia, Conn.
Filed February 6, 1919. Serial No. 115,657. PUBLISHED FEBRUARY 10, 1920.

131,750. AIR-DRYING ENAMEL PAINT, OIL-STAINS, ACID-STAINS, COATERS, VARNISH, AND VARNISH-STAINS. FEDERAL VARNISH CO., Chicago, Ill.
Filed September 5, 1919. Serial No. 122,351. PUBLISHED FEBRUARY 10, 1920.

131,751. HATS AND CAPS FOR MEN AND BOYS. MORRIS FELDSTEIN, New York, N. Y.
Filed November 10, 1919. Serial No. 124,715. PUBLISHED MARCH 2, 1920.

131,752. MEDICINE FOR THE TREATMENT OF SORES, CUTS, AND WOUNDS. FONDAOL LABORATORIES CO., Kansas City, Mo.
Filed October 8, 1919. Serial No. 123,539. PUBLISHED FEBRUARY 3, 1920.

131,753. FACE-LOTION. LINDA FAIRCHILD FOW, Jenkintown, Pa.
Filed August 22, 1919. Serial No. 121,892. PUBLISHED MARCH 9, 1920.

131,754. NECKTIES, CRAVATS, AND SCARFS. FRANC, STROHMENGER & COWAN, INC., New York, N. Y.
Filed August 6, 1918. Serial No. 112,564. PUBLISHED MARCH 2, 1920.

131,755. SYRUP CONSISTING OF ROCK-CANDY SYRUP AND FRUIT FLAVOR AND NON-ALCOHOLIC BEVERAGES MADE FROM SAME. FRUIT VALLEY CORPORATION, Rochester, N. Y.
Filed November 3, 1919. Serial No. 124,478. PUBLISHED FEBRUARY 24, 1920.

131,756. INKS OF VARIOUS KINDS AND COLORS. ROBERT T. FURMAN, New York, N. Y.
Filed December 31, 1918. Serial No. 114,902. PUBLISHED MARCH 2, 1920.

131,757. CERTAIN NAMED GLASSWARE. TIFFANY FURNACES, New York, N. Y.
Filed March 10, 1920. Serial No. 129,516.

131,758. BOND-PAPER FOR WRITING AND PRINTING PURPOSES. GILBERT PAPER COMPANY, Menasha, Wis.
Filed November 12, 1919. Serial No. 124,790. PUBLISHED FEBRUARY 24, 1920.

131,759. WOMEN'S AND MISSES' SPORTING SUITS AND COATS FOR OUTSIDE WEAR AND MADE FROM WOOL STOCKINET. GIMBEL BROTHERS, INCORPORATED, Philadelphia, Pa.
Filed July 10, 1919. Serial No. 120,419. PUBLISHED MARCH 2, 1920.

131,760. COTTON LININGS. J. W. GODDARD & SONS, INCORPORATED, New York, N. Y.
Filed September 26, 1919. Serial No. 123,160. PUBLISHED FEBRUARY 24, 1920.

131,761. TALCUM POWDER, FACE-POWDER, MASSAGE-CREAM, ROUGE, TOILET WATER, PERFUME, AND SACHET-POWDER. GOODRICH DRUG COMPANY, Omaha, Nebr.
Filed July 25, 1919. Serial No. 120,916. PUBLISHED MARCH 9, 1920.

131,762. INK IN TABLET FORM. GOSSELIN TRADING CORPORATION, New York, N. Y.
Filed September 6, 1919. Serial No. 122,395. PUBLISHED MARCH 2, 1920.

131,763. PAINTS, VARNISHES, AND PREPARATIONS IN THE NATURE OF PAINTS, ALL FOR APPLICATION TO SHIPS' BOTTOMS. GRAPHITE PRODUCTS LIMITED, London, England.
Filed July 16, 1919. Serial No. 120,608. PUBLISHED JANUARY 6, 1920.

131,764. CERTAIN NAMED ADHESIVES. GREAT WESTERN PRODUCTS CO., INC., New York, N. Y.
Filed July 15, 1919. Serial No. 120,569. PUBLISHED DECEMBER 30, 1919.

131,765. CERTAIN NAMED ADHESIVES. GREAT WESTERN PRODUCTS CO., INC., New York, N. Y.
Filed July 15, 1919. Serial No. 120,570. PUBLISHED DECEMBER 30, 1919.

131,766. VARNISHES, SHELLACS, LACQUERS, AND FINISHES FOR STAINING, VARNISHING, AND COLORING LADIES' STRAW HATS. A. R. HAEUSER CO., New York, N. Y.
Filed April 10, 1919. Serial No. 117,329. PUBLISHED FEBRUARY 24, 1920.

131,767. VARNISHES, SHELLACS, LACQUERS, AND FINISHES FOR STAINING, VARNISHING, AND COLORING STRAW BRAID IN ONE OPERATION. A. R. HAEUSER CO., New York, N. Y.
Filed October 10, 1919. Serial No. 123,641. PUBLISHED FEBRUARY 24, 1920.

131,768. MEN'S AND WOMEN'S OUTER-WEAR SUITS AND OVERCOATS, SAID GOODS BEING MADE OF WATER-SHEDDING MATERIAL. ISAAC HAMBURGER & SONS, INCORPORATED, Baltimore, Md.
Filed May 27, 1919. Serial No. 118,962. PUBLISHED MARCH 2, 1920.

131,769. ELECTRIC SPOT-LIGHTS OR SEARCH-LIGHTS. HARDWARE MANUFACTURING CO., Seattle, Wash.
Filed September 9, 1919. Serial No. 122,484. PUBLISHED MARCH 2, 1920.

131,770. MIXED PAINTS. HARLAND AND LITTLE, INC., New York, N. Y.
Filed October 11, 1918. Serial No. 113,691. PUBLISHED DECEMBER 30, 1919.

131,771. CHEMICAL PREPARATION CONTAINING THE PROPERTIES OF A MANURE. HAWKER & BOTWOOD LTD., London, England.
Filed September 3, 1919. Serial No. 122,254. PUBLISHED DECEMBER 9, 1919.

131,772. BACKING-PASTES USED IN SHOE MANUFACTURE. HAZEN-BROWN COMPANY, Boston, Mass.
Filed November 2, 1916. Serial No. 99,038. PUBLISHED FEBRUARY 3, 1920.

131,773. LUBRICATING-OILS. HEARN OIL COMPANY, Wilmington, Del.
Filed October 8, 1919. Serial No. 123,545. PUBLISHED FEBRUARY 10, 1920.

131,774. HAIR PREPARATIONS—TO WIT, HAIR-GROWERS, SHAMPOO, AND PRESSING-OIL. SARAH HELM, Indianapolis, Ind.
Filed October 13, 1919. Serial No. 123,737. PUBLISHED MARCH 9, 1920.

131,775. NON-ALCOHOLIC MALTLESS NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS. HODDE BROTHERS, Detroit, Mich.
Filed November 6, 1919. Serial No. 124,602. PUBLISHED FEBRUARY 10, 1920.

131,776. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. HORLACHER BREWING CO., Allentown, Pa.
Filed October 15, 1919. Serial No. 123,810. PUBLISHED JANUARY 20, 1920.

131,777. OIL COMPOUND USED IN THE CUTTING AND SHAPING OF METALS AND AS A RUST-PREVENTIVE. E. F. HOUGHTON & CO., Philadelphia, Pa.
Filed October 17, 1918. Serial No. 113,760½. PUBLISHED FEBRUARY 10, 1920.

131,778. PHONOGRAPHS. THE HUSS BROS. PHONOGRAPH & PIANO CO., Cincinnati, Ohio.
Filed September 29, 1919. Serial No. 123,245. PUBLISHED MARCH 2, 1920.

131,779. ADHESIVE PASTE. IDEAL PASTE & CHEMICAL WORKS, Cleveland, Ohio.
Filed September 13, 1919. Serial No. 122,639. PUBLISHED DECEMBER 9, 1919.

131,780. ADHESIVE PASTE. IDEAL PASTE & CHEMICAL WORKS, Cleveland, Ohio.
Filed September 13, 1919. Serial No. 122,638. PUBLISHED DECEMBER 9, 1919.

131,781. TOILET-PAPER. THE IMPERIAL MERCHANDISE COMPANY, Perry, Ohio.
Filed November 14, 1919. Serial No. 124,908. PUBLISHED FEBRUARY 24, 1920.

131,782. TOILET-PAPER. THE IMPERIAL MERCHANDISE COMPANY, Perry, Ohio.
Filed November 14, 1919. Serial No. 124,909. PUBLISHED FEBRUARY 24, 1920.

131,783. CRASH GOODS IN THE PIECE AND CRASH GOODS IN SHORT LENGTHS. INTERNATIONAL COTTON MILLS, Boston, Mass.
Filed August 7, 1919. Serial No. 121,345. PUBLISHED FEBRUARY 24, 1920.

131,784. PERIODICAL PUBLICATION ISSUED MONTHLY. ITALIAN DISCOUNT AND TRUST COMPANY, New York, N. Y.
Filed June 27, 1919. Serial No. 120,007. PUBLISHED FEBRUARY 10, 1920.

131,785. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS. JACKSON BREWING COMPANY, New Orleans, La.
Filed November 24, 1919. Serial No. 125,233. PUBLISHED FEBRUARY 10, 1920.

131,786. PHONOGRAPHS, TALKING-MACHINES, AND PIANOS. JEFFERSON D. KILGORE, Poplar Bluff, Mo.
Filed September 23, 1919. Serial No. 123,033. PUBLISHED MARCH 2, 1920.

131,787. HARMONICAS OR MOUTH-ORGANS. J. KENDRICK JOHNSON, Elizabeth, N. J.
Filed September 30, 1919. Serial No. 123,285. PUBLISHED MARCH 2, 1920.

131,788. MEN'S DRESS-SHIRTS. KAPLAN & KAPLAN, New York, N. Y.
Filed October 9, 1919. Serial No. 123,583. PUBLISHED MARCH 2, 1920.

131,789. LEATHER BOOTS AND SHOES. KNIPE BROS., INC., Haverhill, Mass.
Filed November 21, 1919. Serial No. 125,156. PUBLISHED MARCH 2, 1920.

131,790. READY-MIXED PAINT AND READY-MIXED ROUGH SURFACE COATING. KUSTAA KOIVISTO, Portland, Oreg.
Filed October 17, 1919. Serial No. 123,896. PUBLISHED FEBRUARY 24, 1920.

131,791. PAINTS, VARNISHES, PAINT-OILS, AND RESINS USED IN THE MANUFACTURE OF PAINTS AND VARNISHES. THE KOPPERS COMPANY, Pittsburgh, Pa.
Filed June 24, 1919. Serial No. 119,905. PUBLISHED DECEMBER 9, 1919.

131,792. REMEDY FOR INFLUENZA, PNEUMONIA, BRONCHITIS, AND ALL PULMONARY AFFECTIONS. ERNST T. KREBS, Carson City, Nev.
Filed September 24, 1919. Serial No. 123,056. PUBLISHED MARCH 9, 1920.

131,793. LADIES' MUSLIN AND SILK UNDERWEAR IN ONE AND TWO PIECE GARMENTS. CHAS. A. KUPFERMAN CO., New York, N. Y.
Filed October 31, 1919. Serial No. 124,412. PUBLISHED MARCH 2, 1920.

131,794. ELECTRIC SPARK-TIMER FOR AUTOMOBILE-ENGINES. ROSCOE B. LACEY, Grand Rapids, Mich.
Filed July 19, 1919. Serial No. 120,706. PUBLISHED MARCH 2, 1920.

131,795. LUBRICATING-OILS. LAMBORN & CO., New York, N. Y.
Filed October 6, 1919. Serial No. 123,487. PUBLISHED JANUARY 6, 1920.

131,796. LIQUID SPRAY FOR ANIMALS. LESSER MANUFACTURING COMPANY, Olean, N. Y.
Filed Oct. 4, 1919. Serial No. 123,441. PUBLISHED MARCH 9, 1920.

131,797. LOTIONS TO BE RUBBED INTO THE SKIN TO RELIEVE PAIN. LUMOFF AND EVANOVE, Seattle, Wash.
Filed April 24, 1919. Serial No. 117,811. PUBLISHED FEBRUARY 3, 1920.

131,798. CUFF-LINKS MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL. MCRAE & KEELER, Attleboro, Mass.
Filed December 3, 1919. Serial No. 125,540. PUBLISHED FEBRUARY 24, 1920.

131,799. CANNED FRUITS — NAMELY, CANNED PEACHES AND PEARS. MANTECA PACKING COMPANY, Manteca, Calif.
Filed December 27, 1919. Serial No. 126,537. PUBLISHED MARCH 2, 1920.

131,800. FEMALE-APPAREL — NAMELY, DRESSES AND COATS. LEON MARX, New York, N. Y.
Filed August 9, 1919. Serial No. 121,501. PUBLISHED MARCH 2, 1920.

131,801. LEATHER BOOTS AND SHOES. F. MAYER BOOT & SHOE CO., Milwaukee, Wis.
Filed December 3, 1919. Serial No. 125,539. PUBLISHED MARCH 2, 1920.

131,802. CERTAIN NAMED ARTICLES OF STATIONERY. WILLIAM MITCHELL (PENS) LIMITED, Smethwick, near Birmingham, England.
Filed November 13, 1919. Serial No. 124,863. PUBLISHED FEBRUARY 24, 1920.

131,803. LAUNDRY BLUE. NATIONAL BLUE CORPORATION, New York, N. Y.
Filed October 3, 1919. Serial No. 123,392. PUBLISHED MARCH 2, 1920.

131,804. LAUNDRY BLUE. NATIONAL BLUE CORPORATION, New York, N. Y.
Filed October 3, 1919. Serial No. 123,393. PUBLISHED MARCH 2, 1920.

131,805. LAUNDRY BLUE. NATIONAL BLUE CORPORATION, New York, N. Y.
Filed October 3, 1919. Serial No. 123,394. PUBLISHED MARCH 2, 1920.

131,806. PITCH-PIPES FOR USE IN TUNING VIOLINS, BANJOS, AND GUITARS. NATIONAL MUSICAL STRING COMPANY, New Brunswick, N. J.
Filed October 13, 1919. Serial No. 123,750. PUBLISHED MARCH 2, 1920.

131,807. PECAN-NUTS IN THEIR NATURAL STATE. NATIONAL PECAN GROWERS EXCHANGE, Albany, Ga.
Filed November 12, 1919. Serial No. 124,806. PUBLISHED MARCH 2, 1920.

131,808. INCANDESCENT ELECTRIC LAMPS, AND ESPECIALLY NITROGEN-FILLED LAMPS. NITROGEN ELECTRIC COMPANY, Newark, N. J.
Filed August 16, 1919. Serial No. 121,724. PUBLISHED MARCH 2, 1920.

131,809. CANE-SYRUP NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AT SODA-FOUNTAINS AS SOFT DRINKS. THE NULOMOLINE COMPANY, New York, N. Y.
Filed November 5, 1919. Serial No. 124,574. PUBLISHED FEBRUARY 24, 1920.

131,810. WRITING AND PRINTING-PAPERS AND TABLETS. OSBORN PAPER COMPANY, Marion, Ind.
Filed December 5, 1919. Serial No. 125,625. PUBLISHED FEBRUARY 24, 1920.

131,811. WRITING AND PRINTING PAPERS AND TABLETS. OSBORN PAPER COMPANY, Marion, Ind.
Filed December 8, 1919. Serial No. 125,720. PUBLISHED FEBRUARY 24, 1920.

131,812. LIQUID COMPOUND FOR TREATING CERTAIN NAMED DISEASES AND AFFECTIONS. THE OWL DRUG CO., Decatur, Ala.
Filed October 9, 1919. Serial No. 123,585. PUBLISHED FEBRUARY 3, 1920.

131,813. FERTILIZING CULTURE OF NITROGEN-FIXING BACTERIA. PACIFIC NITROSOIL COMPANY, San Francisco, Calif.
Filed September 10, 1919. Serial No. 122,545. PUBLISHED MARCH 2, 1920.

131,814. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. HANDLEY PAGE LIMITED, Cricklewood, London, England.
Filed June 25, 1919. Serial No. 119,947. PUBLISHED FEBRUARY 24, 1920.

131,815. LIQUID PAINTS, VARNISHES, AND PAINT COMPOUNDS FOR PROTECTIVE AND PRESERVATIVE PURPOSES. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed November 11, 1919. Serial No. 124,762. PUBLISHED MARCH 2, 1920.

131,816. MEDICINAL SALVE FOR THE TREATMENT OF CERTAIN NAMED AFFECTIONS AND DISEASES. MEINRAD MAX PARZINGER, Linden Heights, Ohio.
Filed October 10, 1919. Serial No. 123,660. PUBLISHED MARCH 2, 1920.

131,817. DISKS FOR TALKING-MACHINES. PATHE FRERES PHONOGRAPH COMPANY, Wilmington, Del., and Brooklyn, N. Y.
Filed April 12, 1917. Serial No. 102,911. PUBLISHED FEBRUARY 24, 1920.

131,818. TALKING-MACHINES. THE PERFEK'TONE CORPORATION, Philadelphia, Pa.
Filed September 30, 1919. Serial No. 123,290. PUBLISHED FEBRUARY 24, 1920.

131,819. GASOLENE, BENZIN, DISTILLATE, KEROSENE, LUBRICATING-OILS, LUBRICATING-GREASES. PETROLEUM PRODUCTS CO., San Francisco, Calif.
Filed September 19, 1919. Serial No. 122,910. PUBLISHED MARCH 2, 1920.

131,820. LIME-JUICE AND GRAPE-JUICE. S. S. PIERCE CO., Boston, Mass.
Filed November 22, 1919. Serial No. 125,196. PUBLISHED FEBRUARY 10, 1920.

131,821. WRITING-TABLETS. ABRAHAM PLOUGH, Memphis, Tenn.
Filed November 15, 1919. Serial No. 124,951. PUBLISHED FEBRUARY 24, 1920.

131,822. CERTAIN NAMED MEASURING APPLIANCES. PNEUMERCATOR COMPANY, New York, N. Y.
Filed March 17, 1919. Serial No. 116,665. PUBLISHED FEBRUARY 10, 1920.

131,823. LINIMENTS USED IN THE TREATMENT OF MUSCULAR PAINS, BRUISES, AND SPRAINS. THE POLONIA DRUG COMPANY, Philadelphia, Pa.
Filed April 25, 1919. Serial No. 117,854. PUBLISHED MARCH 9, 1920.

131,824. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. PRECISION INSTRUMENT COMPANY, Detroit, Mich.
Filed October 13, 1917. Serial No. 106,759. PUBLISHED FEBRUARY 10, 1920.

131,825. FERTILIZERS. RANDALL MCLOUGHLIN CO., Seattle, Wash.
Filed August 13, 1919. Serial No. 121,642. PUBLISHED FEBRUARY 10, 1920.

131,826. HOUSE AND ROOFING PAINTS. GEORGE W. REINHARDT CO., Boston, Mass.
Filed September 16, 1919. Serial No. 122,790. PUBLISHED FEBRUARY 10, 1920.

131,827. SILK PIECE GOODS. LOUIS ROESSEL & CO., INC., New York, N. Y.
Filed July 26, 1919. Serial No. 120,971. PUBLISHED FEBRUARY 10, 1920.

131,828. IMITATION LINOLEUM. SALEM MANUFACTURING COMPANY, Salem, N. J., and New York, N. Y.
Filed October 7, 1919. Serial No. 123,525. PUBLISHED MARCH 2, 1920.

131,829. WOOL KNITTING-YARN. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 25, 1918. Serial No. 113,390. PUBLISHED JANUARY 6, 1920.

131,830. CERTAIN NAMED CHEMICALS. THE SEYDEL MANUFACTURING COMPANY, Jersey City, N. J.
Filed June 23, 1919. Serial No. 119,871. PUBLISHED JANUARY 20, 1920.

131,831. RUBEFACIENT OINTMENT. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,543. PUBLISHED MARCH 9, 1920.

131,832. DIGESTIVE COMPOUND. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,545. PUBLISHED MARCH 9, 1920.

131,833. ALTERATIVE ANTISEPTIC OINTMENT. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,546. PUBLISHED MARCH 9, 1920.

131,834. ANTISEPTIC ANTIPRURITIC OINTMENT. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,554. PUBLISHED MARCH 9, 1920.

131,835. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. CARL L. SHEARER, Oneonta, N. Y.
Filed December 1, 1919. Serial No. 125,476. PUBLISHED FEBRUARY 10, 1920.

131,836. COFFEE. THE W. J. SHEDD COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 19, 1919. Serial No. 125,096. PUBLISHED MARCH 2, 1920.

131,837. FILLER FOR PNEUMATIC TIRES. SHUREFIX MANUFACTURING CO., Seattle, Wash.
Filed August 13, 1919. Serial No. 121,644. PUBLISHED DECEMBER 30, 1919.

131,838. GLUE. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed March 25, 1919. Serial No. 116,905. PUBLISHED JANUARY 6, 1920.

131,839. BLACKINGS, CREAMS, AND POLISHES FOR ALL KINDS OF LEATHER ARTICLES. SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France.
Filed October 1, 1919. Serial No. 123,321. PUBLISHED MARCH 2, 1920.

131,840. LUBRICATING OILS AND GREASES. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,501. PUBLISHED DECEMBER 2, 1919.

131,841. PEARLS, COLLARS OF PEARLS, AND JEWELS ADORNED WITH PEARLS, FINE OR ARTIFICIAL. SOCIÉTÉ LA PERLE SASKIA, Paris, France.
Filed November 26, 1919. Serial No. 125,346. PUBLISHED FEBRUARY 24, 1920.

131,842. GINGER-ALE. SOUTHWESTERN COCA-COLA BOTTLING CO., Deming, N. Mex.
Filed November 6, 1919. Serial No. 124,627. PUBLISHED JANUARY 6, 1920.

131,843. REFINED OIL FOR ILLUMINATING, HEATING, AND POWER PURPOSES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed June 10, 1919. Serial No. 119,444. PUBLISHED DECEMBER 9, 1919.

131,844. KEROSENE, GASOLENE, NAPHTHA, LUBRICATING-OILS, AND LUBRICATING-GREASES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed August 2, 1919. Serial No. 121,217. PUBLISHED MARCH 2, 1920.

131,845. POLISH FOR VARNISHED AND ENAMELED SURFACES. THE STICKNEY COLOR COMPANY, Indianapolis, Ind.
Filed July 30, 1919. Serial No. 121,135. PUBLISHED NOVEMBER 11, 1919.

131,846. RUBBER CEMENTS, TREAD-FILLER, TIRE-TAPE, TUBE-REPAIR GUMS, TREAD-REPAIR GUMS. ST. LOUIS RUBBER CEMENT CO., St. Louis, Mo.
Filed November 24, 1919. Serial No. 125,255. PUBLISHED FEBRUARY 10, 1920.

131,847. OUTER COATS AND VESTS FOR MEN, WOMEN AND CHILDREN. ST. PAUL GARMENT MFG. CO., St. Paul, Minn.
Filed November 29, 1919. Serial No. 125,440. PUBLISHED MARCH 2, 1920.

131,848. HOSIERY. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn.
Filed December 3, 1919. Serial No. 125,546. PUBLISHED MARCH 2, 1920.

131,849. MEDICINE FOR INDIGESTION, NERVOUS AFFECTIONS, KIDNEY TROUBLE, AND CONSTIPATION. MIROSLAV SZCZEPKOWSKI, Chicago, Ill.
Filed June 19, 1919. Serial No. 119,776. PUBLISHED MARCH 9, 1920.

131,850. CALENDAR-PADS. THE SAMUEL C. TATUM CO., Cincinnati, Ohio.
Filed May 29, 1917. Serial No. 104,149. PUBLISHED OCTOBER 1, 1918.

131,851. COTTON PIECE GOODS. TAYLOR, CLAPP & BEALL, New York, N. Y.
Filed June 21, 1919. Serial No. 119,841. PUBLISHED JANUARY 27, 1920.

131,852. ANODYNE, ANTISEPTIC, AND LOCAL ANESTHETIC. THE TILDEN COMPANY, New Lebanon, N. Y., and St. Louis, Mo.
Filed October 2, 1919. Serial No. 123,372. PUBLISHED JANUARY 27, 1920.

131,853. LIQUID AND PASTE SHAMPOOS. THE TIPP WHIP COMPANY, Tippecanoe City, Ohio.
Filed September 22, 1919. Serial No. 123,003. PUBLISHED MARCH 9, 1920.

131,854. VARNISH PREPARATION FOR PRESERVING, WATERPROOFING, AND COLORING TEXTILE FABRICS, LEATHER, AND THE LIKE. TITANINE, INC., New York, N. Y.
Filed February 7, 1919. Serial No. 115,682. PUBLISHED JANUARY 6, 1920.

131,855. FUEL-OILS. THE TOLEDO FUEL COMPANY, Toledo, Ohio.
Filed August 13, 1919. Serial No. 121,648. PUBLISHED MARCH 2, 1920.

131,856. FINGER-RINGS. CHAS. L. TROUT COMPANY, INC., New York, N. Y.
Filed November 1, 1919. Serial No. 124,453. PUBLISHED FEBRUARY 24, 1920.

131,857. FINGER-RINGS. CHAS. L. TROUT COMPANY, INC., New York, N. Y.
Filed November 1, 1919. Serial No. 124,454. PUBLISHED FEBRUARY 24, 1920.

131,858. FINGER-RINGS. CHAS. L. TROUT COMPANY, INC., New York, N. Y.
Filed November 1, 1919. Serial No. 124,455. PUBLISHED FEBRUARY 24, 1920.

131,859. ELECTRIC KNIFE-SWITCHES, ELECTRIC SAFETY-SWITCHES, AND PANEL-BOARDS. THE TRUMBULL-VANDERPOEL ELECTRIC MFG. CO., Bantam, Conn.
Filed December 3, 1919. Serial No. 125,552. PUBLISHED FEBRUARY 10, 1920.

131,860. CLEANSER IN POWDERED FORM. UNIVERSAL CLEANSER CO., Oklahoma, Okla.
Filed August 8, 1919. Serial No. 121,427. PUBLISHED FEBRUARY 10, 1920.

131,861. ETHYL ALCOHOL FOR USE AS THINNER OR SOLVENT FOR PAINTS, VARNISHES, AND THE LIKE. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed January 29, 1919. Serial No. 115,513. PUBLISHED DECEMBER 9, 1919.

131,862. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS. VACUUM OIL COMPANY, New York, N. Y.
Filed August 9, 1919. Serial No. 121,495. PUBLISHED JANUARY 6, 1920.

131,863. OILS, GREASES, AND WAXES AND SIMILAR PRODUCTS FOR LUBRICATING, ILLUMINATING, AND HEATING PURPOSES, ALSO GASOLENE. VACUUM OIL COMPANY, New York, N. Y.
Filed August 9, 1919. Serial No. 121,497. PUBLISHED FEBRUARY 10, 1920.

131,864. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS. VACUUM OIL COMPANY, New York, N. Y.
Filed September 29, 1919. Serial No. 123,268. PUBLISHED FEBRUARY 10, 1920.

131,865. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS. VACUUM OIL COMPANY, New York, N. Y.
Filed September 12, 1919. Serial No. 122,618. PUBLISHED JANUARY 6, 1920.

131,866. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS. VACUUM OIL COMPANY, New York, N. Y.
Filed September 29, 1919. Serial No. 123,269. PUBLISHED FEBRUARY 10, 1920.

131,867. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS. VACUUM OIL COMPANY, New York, N. Y.
Filed September 29, 1919. Serial No. 123,270. PUBLISHED FEBRUARY 10, 1920.

131,868. CANNED FISH—NAMELY, CANNED SARDINES. CHARLES EDWARD VAN LANDINGHAM, Los Angeles, Calif.
Filed December 12, 1919. Serial No. 125,920. PUBLISHED MARCH 2, 1920.

131,869. AUTOMOBILE AND FURNITURE POLISH. N. & P. VARNISHFOOD COMPANY, Spokane, Wash.
Filed March 3, 1919. Serial No. 116,272. PUBLISHED FEBRUARY 3, 1920.

131,870. CERTAIN NAMED BEVERAGE, SYRUPS, FLAVORING EXTRACTS, LIQUID COLORS, AND ALL KINDRED FRUIT PRODUCTS. THE VER-VAC COMPANY, Baltimore, Md.
Filed August 9, 1919. Serial No. 121,499. PUBLISHED DECEMBER 30, 1919.

131,871. PHONOGRAPHS. VOICE TALKING MACHINE CO., New York, N. Y.
Filed June 25, 1919. Serial No. 119,965. PUBLISHED MARCH 2, 1920.

131,872. CERTAIN NAMED FOOTWEAR. PHILIP H. VOLK, Baltimore, Md.
Filed December 1, 1919. Serial No. 125,479. PUBLISHED MARCH 2, 1920.

131,873. CERTAIN NAMED TOOLS AND MACHINERY. THE VULCAN PLOW CO., Evansville, Ind.
Filed September 8, 1919. Serial No. 122,453. PUBLISHED FEBRUARY 3, 1920.

131,874. LIQUID PAINT. WADSWORTH, HOWLAND & CO., INCORPORATED, Boston, Mass.
Filed October 21, 1919. Serial No. 124,063. PUBLISHED FEBRUARY 24, 1920.

131,875. LAUNDRY SOAP. WEST COAST SOAP CO., Oakland, Calif.
Filed October 8, 1917. Serial No. 106,682. PUBLISHED JUNE 3, 1919.

131,876. GRAPE-JUICE AND GINGER-ALE. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,605. PUBLISHED FEBRUARY 24, 1920.

131,877. CERTAIN NAMED MACHINES, BUCKS, LATHES, BLOCKS, BARS, CUTTERS, REAMERS, DRILLS, JIGS, AND FIXTURES. A. F. WAY COMPANY, INCORPORATED, Hartford, Conn.
Filed July 12, 1919. Serial No. 120,510. PUBLISHED FEBRUARY 10, 1920.

131,878. STERLING-SILVER HOLLOW WARE, SUCH AS BOWLS, DISHES, COMPOTES, CANDLESTICKS, VASES, CUPS, &c. WEBER, WAGNER & BENSON, INC., New York, N. Y.
Filed August 29, 1919. Serial No. 122,149. PUBLISHED MARCH 2, 1920.

131,879. MACKINAWS, WOOLEN SHIRTS, STORM-VESTS, TROUSERS, AND OUTER SUITS IN TWO AND THREE PIECES. THE LAWRENCE WEBSTER CO., Malone, N. Y.
Filed December 2, 1919. Serial No. 125,520. PUBLISHED MARCH 2, 1920.

131,880. SILK AND VELVET RIBBONS. WERTHEIMER BROS., New York, N. Y.
Filed September 12, 1919. Serial No. 122,619. PUBLISHED FEBRUARY 3, 1920.

131,881. CANNED FRUITS—NAMELY, CANNED APRICOTS, CANNED PEARS, AND CANNED PEACHES. WESTERN CANNING COMPANY, Oakland, Calif.
Filed October 20, 1919. Serial No. 124,030. PUBLISHED MARCH 2, 1920.

131,882. IMITATION PEARLS AND PEARL NECKLACES. HAYDEN W. WHEELER & CO., New York, N. Y.
Filed December 23, 1919. Serial No. 126,406. PUBLISHED FEBRUARY 24, 1920.

131,883. POLISHES FOR AUTOMOBILES, FURNITURE, WOODWORK, AND THE LIKE. CHARLES B. WHITNEY, Decatur, Ill.
Filed September 26, 1919. Serial No. 123,190. PUBLISHED MARCH 2, 1920.

131,884. LAXATIVE TABLET OR WAFER. JAMES OTIS WILLIAMSON, Montgomery, Ala.
Filed October 2, 1919. Serial No. 123,381. PUBLISHED MARCH 2, 1920.

131,885. WOMEN'S SILK UNDERWEAR. WINDSOR UNDERSILKS, INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,311. PUBLISHED MARCH 2, 1920.

131,886. MEDICINAL TABLETS FOR LAXATIVE, LIVER-REGULATOR, AND BLOOD-PURIFIER. M. A. WINTER COMPANY, Washington, D. C.
Filed October 10, 1919. Serial No. 123,673. PUBLISHED MARCH 9, 1920.

131,887. ELECTRIC DISH-WASHING MACHINES AND PARTS THEREOF. THE WOLCOTT MANUFACTURING COMPANY, Hartford, Conn.
Filed December 10, 1919. Serial No. 125,816. PUBLISHED FEBRUARY 10, 1920.

131,888. PEARLS AND IMITATION PEARLS. MARCEL WORMSER, Summit, N. J.
Filed October 7, 1919. Serial No. 123,529. PUBLISHED FEBRUARY 24, 1920.

131,889. MEDICINAL ANTISEPTIC SPRAY. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa.
Filed October 9, 1919. Serial No. 123,594. PUBLISHED FEBRUARY 3, 1920.

131,890. NEEDLES FOR TALKING-MACHINES. MORRIS & YEOMANS LIMITED, Redditch, England.
Filed September 15, 1919. Serial No. 122,714. PUBLISHED MARCH 2, 1920.

131,891. CONFECTIONERY—NAMELY, CHOCOLATES. ALL-QUAL-SWEETS CO. INC., Chicago, Ill.
Filed December 15, 1919. Serial No. 125,996. PUBLISHED MARCH 9, 1920.

131,892. CERTAIN NAMED CORDAGE. AMERICAN STEEL EXPORT COMPANY, New York, N. Y.
Filed April 30, 1918. Serial No. 110,553. PUBLISHED NOVEMBER 4, 1919.

131,893. WINDOW-GLASS AND PICTURE-GLASS. AMERICAN WINDOW GLASS COMPANY, Pittsburgh, Pa.
Filed July 16, 1919. Serial No. 120,588. PUBLISHED MARCH 9, 1920.

131,894. READY-MIXED PAINTS AND ENAMEL PAINTS. HARRY B. BLESSING, Jersey City, N. J.
Filed September 4, 1919. Serial No. 122,277. PUBLISHED FEBRUARY 10, 1920.

131,895. SNAP-FASTENER. CARR FASTENER COMPANY, Cambridge, Mass.
Filed January 2, 1920. Serial No. 126,714. PUBLISHED MARCH 9, 1920.

131,896. SHOE-BUTTONS. COMPAGNIE FRANCAISE DES BOUTONS DE LA MARQUE J. P., Paris, France
Filed December 31, 1919. Serial No. 126,672. PUBLISHED MARCH 9, 1920.

131,897. HYDROCARBON-BURNERS. JOHN SCHEMINGER, Jr., Providence, R. I.
Filed August 7, 1919. Serial No. 121,363. PUBLISHED FEBRUARY 10, 1920.

131,898. HOOKS AND EYES. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed January 13, 1917. Serial No. 100,577. PUBLISHED MARCH 9, 1920.

131,899. GASOLENE. THE DENVER POWERINE COMPANY, Denver, Colo.
Filed May 13, 1919. Serial No. 118,431. PUBLISHED JANUARY 6, 1920.

131,900. FELT POLISHING-WHEELS. EASTERN FELT COMPANY, Winchester, Mass.
Filed May 6, 1919. Serial No. 118,204. PUBLISHED MARCH 9, 1920.

131,901. REAL FUDGE AND PENOCHI, HOME-MADE. ALICE EATON, Atlantic City, N. J.
Filed August 5, 1919. Serial No. 121,277. PUBLISHED MARCH 9, 1920.

131,902. PHONOGRAPH-RECORDS. EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y.
Filed December 24, 1918. Serial No. 114,807. PUBLISHED NOVEMBER 11, 1919.

131,903. FLUX OR COVERED ELECTRODES. GENSONITE WELDING ELECTRODE CO., Philadelphia, Pa.
Filed September 19, 1919. Serial No. 122,883. PUBLISHED JANUARY 6, 1920.

131,904. CANNED FRUITS—NAMELY, PEACHES AND APRICOTS. GOLDEN STATE CANNERIES, Los Angeles, Calif.
Filed December 12, 1919. Serial No. 125,885. PUBLISHED MARCH 9, 1920.

131,905. CANNED SALMON. HAAS, BARUCH & CO., Los Angeles, Calif.
Filed December 12, 1919. Serial No. 125,887. PUBLISHED MARCH 9, 1920.

131,906. GASOLENE. THE HICKOK PRODUCING COMPANY, Toledo, Ohio.
Filed March 20, 1919. Serial No. 116,746. PUBLISHED MARCH 2, 1920.

131,907. PERMANENT UNCHANGING SIGNS FORMED OF PLASTIC MATERIAL, SUCH AS CONCRETE, PORCELAIN, OR THE LIKE. FRANK W. HOCKADAY, Wichita, Kans.
Filed May 20, 1919. Serial No. 118,733. PUBLISHED MARCH 9, 1920.

131,908. MALT AND HOP EXTRACT FOR NON-ALCOHOLIC BEVERAGES. BRUNO A. HOEHL, Wheeling, W. Va.
Filed October 20, 1919. Serial No. 123,982. PUBLISHED JANUARY 27, 1920.

131,909. SHINGLES. HOWELL, FIELD & GODDARD, INC., Long Island City, N. Y.
Filed November 22, 1919. Serial No. 125,179. PUBLISHED MARCH 9, 1920.

131,910. WHEAT-FLOUR. INTERNATIONAL MILLING COMPANY, New Prague, Minn.
Filed December 27, 1919. Serial No. 126,521. PUBLISHED MARCH 9, 1920.

131,911. GELATIN. CHARLES B. KNOX GELATINE COMPANY, INC., Johnstown, N. Y.
Filed December 11, 1919. Serial No. 125,849. PUBLISHED MARCH 9, 1920.

131,912. CERTAIN NAMED NON-INTOXICATING FRUIT BEVERAGES. G. LOEWUS & CO., Jersey City, N. J.
Filed December 15, 1919. Serial No. 126,040. PUBLISHED MARCH 9, 1920.

131,913. FINISHED AND UNFINISHED LUMBER—NAMELY, TIES, TIMBER, BOARDS, AND PLANKS. THE LONG-BELL LUMBER COMPANY, Kansas City, Mo.
Filed July 1, 1919. Serial No. 120,168. PUBLISHED MARCH 9, 1920.

131,914. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. MASSACHUSETTS BREWERIES COMPANY, Alexandria, Va., and Boston, Mass.
Filed November 3, 1919. Serial No. 124,487. PUBLISHED JANUARY 20, 1920.

131,915. BREAKFAST-BACON. JOHN MORRELL & CO., Ottumwa, Iowa.
Filed August 22, 1917. Serial No. 105,809. PUBLISHED JANUARY 14, 1919.

131,916. LUBRICATING OILS AND GREASES. MOTOR-LIFE OIL COMPANY, Athens, Ga.
Filed November 5, 1919. Serial No. 124,573. PUBLISHED FEBRUARY 3, 1920.

131,917. STRAIGHT AND BIAS BINDING-STRIPS FOR CLOTHING, KNITTED AND WOVEN TAPES, AND STOCKING-SUPPORTERS. THE NICHOLS UNDERWEAR CORPORATION, Bridgeport, Conn.
Filed December 6, 1919. Serial No. 125,667. PUBLISHED MARCH 9, 1920.

131,918. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. W. IRVING PEIRCE, Fall River, Mass.
Filed September 15, 1919. Serial No. 122,723. PUBLISHED MARCH 16, 1920.

131,919. CANNED RED PEPPERS, CANNED PIMENTO SAUCE, CANNED GREEN PEPPERS, CANNED PIMENTOS. POMONA PRODUCTS CO., Pomona, Ga.
Filed February 4, 1919. Serial No. 115,630. PUBLISHED MARCH 9, 1920.

131,920. BLENDED COFFEE. MARIE A. REINHARD, New Orleans, La.
Filed April 28, 1919. Serial No. 117,951. PUBLISHED MARCH 9, 1920.

131,921. PREPARED ROOFING. ROOFBESTOS MANUFACTURING CO., St. Louis, Mo.
Filed August 25, 1919. Serial No. 121,994. PUBLISHED MARCH 9, 1920.

131,922. WATERPROOFING PLASTIC OR SEMIPLASTIC COMPOUND CONSISTING OF ELASTIC WATERPROOF GUMS AND LONG-FIBER-ASBESTOS THREADS. A. H. ROTHSCHILD, New York, N. Y.
Filed August 12, 1918. Serial No. 112,676. PUBLISHED APRIL 15, 1919.

131,923. CANNED FRUITS—NAMELY, CANNED BLACKBERRIES AND CANNED STRAWBERRIES; CANNED VEGETABLES — NAMELY, CANNED BEETS. A. RUPERT COMPANY, INC., Portland, Oreg.
Filed December 15, 1919. Serial No. 126,063. PUBLISHED MARCH 9, 1920.

131,924. OARS AND PADDLES. SHEA OAR COMPANY, Springfield, Mass.
Filed December 16, 1919. Serial No. 126,143. PUBLISHED MARCH 9, 1920.

131,925. GASOLENE. SHERWOOD BROS., Baltimore, Md.
Filed October 23, 1919. Serial No. 124,125. PUBLISHED MARCH 16, 1920.

131,926. FLAVORING EXTRACTS FOR ICE-CREAM, JELLIES, PASTRY, CUSTARDS. SOUTHERN EXTRACT & SPICE CO., Greenville, S. C.
Filed December 5, 1917. Serial No. 107,777. PUBLISHED MARCH 9, 1920.

131,927. LACING-HOOKS FOR USE ON SHOES. EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y.
Filed September 10, 1918. Serial No. 113,103. PUBLISHED MARCH 9, 1920.

131,928. LUMBER. WALNUT EXPORT SALES CO., INC., Dover, Del., and New York, N. Y.
Filed July 2, 1919. Serial No. 120,230. PUBLISHED MARCH 9, 1920.

131,929. CHOCOLATE CANDY. WATTERS CANDY COMPANY, Everett, Wash.
Filed June 24, 1919. Serial No. 119,924. PUBLISHED MARCH 9, 1920.

LABELS

REGISTERED MAY 25, 1920.

21,870.—*Title:* "TIP-TOP." (For Bread.) EMILE FRISCH, Chicago, Ill. Filed November 3, 1919.

21,871.—*Title:* "BRO-WAL." (For Bitter-Wine Tonic.) SCRANTON DISTRIBUTING AND MFG. CO., Scranton, Pa. Filed February 21, 1920.

21,872.—*Title:* "ORANGE-COLA." (For Orange-Cola Beverage.) J. L. SHIPP, Washington, Ga. Filed September 3, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

ANTOINE AND TRAVIS *v.* GROVER AND BARBER.

Decided October 24, 1918.

1. PATENTS—INTERFERENCE—REDUCTION TO PRACTICE—MACHINES SOLD, BUT NO DIRECT EVIDENCE OF SUCCESSFUL OPERATION.

Where a party to an interference proves the construction of a device embodying the issue and the testimony is to the effect that a large number of machines of the same construction were made and sold prior to the reduction to practice of the opposing party, names and addresses of persons to whom they were shipped being given, *Held* that the testimony proves a prior reduction to practice in the absence of controverting evidence showing that the machines so alleged to have been sold were not reductions to practice.

2. SAME—SAME—ABANDONED EXPERIMENT—SUBSEQUENT CHANGE OF CONSTRUCTION ALONE DOES NOT ESTABLISH.

The making of improved machines after an alleged reduction to practice and after commercial production of such machines is not alone sufficient to discredit the claim of successful operation and warrant a holding that the earlier construction was merely an abandoned experiment.

APPEAL from Examiners-in-Chief.

CHECK-DETECTOR FOR CHECK-ACTUATED MACHINES.

Mr. J. H. Jochum, Jr., for Antoine and Travis.

Mr. A. Alexander Thomas for Grover and Barber.

NEWTON, *Commissioner:*

This is an appeal from a decision of the Examiners-in-Chief awarding priority to Antoine and Travis, the junior parties, thus reversing the decision of the Examiner of Interferences, on four counts, of which count 4 is probably the most limited, and which is as follows:

4. In a coin controlled machine, a casing having a coin slot or passage, a coin carrier normally free to rotate in a direction to carry the deposited coin into operative position within the machine, an upwardly extending yieldable member supported at its lower end and provided at its upper or free end with a head projecting normally into said coin slot or passage, whereby said head is adapted to enter the opening of a washer on said coin carrier, said head having a beveled surface and an abrupt surface so arranged that said abrupt surface unyieldingly engages the inner edge of the washer and thereby positively locks said washer and coin carrier against further movement, said beveled surface permitting reverse rotation of the coin carrier for removal of the inserted washer through said coin slot, and a hand-operable member on the front wall of said casing for operating said coin-carrier.

The invention is an improvement in a coin-controlled machine—that is, a machine into which if a coin, usually in this class of machines a nickel or penny, is dropped into a slot and a handle turned it will release a package of chewing-gum or peanuts, etc.

This art has been well worked over by inventors, and the improvements now are in details. The counts are limited, and must be so construed to avoid the prior art.

The novel feature of the invention is in the mechanism for preventing operation of the machine with a slug or washer having a hole in the middle, as such washers are ordinarily made. These parties, however, are not the first to produce such machines. Indeed, Antoine and Travis have a patent, No. 1,043,374, November 5, 1912, and the patent to Davis, No. 753,961, March 8, 1904, shows another form of a very similar coin-controlled device, the main difference being that in both the Davis and Antoine and Travis patents the yieldable member has a button or knob (numbered 33 in Davis's patent and 37 in the Antoine and Travis patent) which is projected into the hole in the slug or washer, thus allowing a projection 28 of the Davis patent and 38 of the Antoine and Travis patent to arrest the coin-disk.

Antoine and Travis found this knob or button wore a groove in the disk, the button being made of hard metal and the disk of soft metal, and it was to obviate this difficulty that the present inventions were designed, the characteristic feature being a spring-actuated lever having a dog or projection at the free end, which contacts with the coin-disk, and if a washer were to be used with a hole in its middle the projection will be projected into the hole and prevent further turning of the disk in a direction to operate the mechanism, the projection having a beveled surface to permit a reverse rotation of the disk to allow the removal of the washer.

It is admitted that Grover and Barber conceived in April, 1912, and reduced to practice in January, 1913. Nothing further need be considered as to their dates.

Antoine and Travis unquestionably conceived in 1911. This case turns on whether Antoine and Travis have proven reduction to practice in the early part of 1912.

The Examiners-in-Chief have held that Antoine and Travis have proven reduction to practice in February, 1912, and awarded priority to them. The Examiner of Interferences has held that the testimony was not sufficient to establish a reduction to

practice for Antoine and Travis prior to December, 1913, the date of filing of their application for patent.

The decision of the Examiners-in-Chief and that of the Examiner of Interferences have been carefully considered in connection with the evidence. Little can be said additional to what those two decisions have set forth.

I have concluded to adopt the views of the Examiners-in-Chief for reasons set forth in their decision.

Exhibits A and E are the storm-centers of this contest. Antoine (Q. 71 *et seq.*) testifies that Exhibit A was put on a coin-controlled vending-machine, tried out in the month of September, 1911, and that the test proved satisfactory. Exhibit A discloses every feature of the invention called for by the counts. It is true that the coin-disk of Exhibit A was not on that exhibit in 1911; but these coin-disks were old and common and had long been used in machines made by Antoine and Travis. Hagan, who made the casing of Exhibit A, sufficiently establishes its construction in October or November, 1911. (Q. 11 *et seq.* and XQ. 42 *et seq.*) Indeed, as I understand this case there is no dispute as to the date when the casing of Exhibit A was made or that the casing, together with the dog, was different from what is now shown in Exhibit A. Antoine (Q. 40 *et seq.*) described Exhibit A as it was at the time testimony was taken; but he states (Q. 27) that he saw it in the fall of 1911. His testimony is frank and without dissimulation. Indeed, a careful reading of it convinces me that the defects are in too much conciseness rather than in overstatements in his favor. He has been criticized for stating (Q. 65) that three of the casings only were made in the first lot and later that six casings were made, while the invoice shows there were probably ten; but it is immaterial whether there were three or ten so far as the merits of this case go. At best it is only a reflection on Antoine's accuracy; but reading the testimony as a whole I think it only fair to him to attribute some unexplained matters that caused him to make the error.

The point which seems to me to be conclusive as bearing on the Antoine and Travis reduction to practice is that a large number of machines were made like Exhibit A. Antoine (Q. 68) says 2,000, and Exhibit E, Gebert says, was made from the same mold as Exhibit A. Gebert's testimony, fortified by Antoine and Travis's Exhibits G. H, I, and J, clearly shows that many machines like Exhibit E were shipped to customers—2,000, Gebert says in answer to Q. 59. Many in the early part of 1912 and the names of the parties to whom they were shipped are given, and such machines are still being sold. The pertinent parts of this testimony are accurately set forth in the decision of the Examiners-in-Chief and will not be repeated here.

I know of no case wherein machines had been sold and put into use as extensively as the testimony shows these machines have been sold and used in which a holding of reduction to practice has failed. In *Stanton* v. *Howe et al.* (153 O. G., 823; 34 App. D. C., 418) there was no better reduction to practice proven than in the instant case; yet since the machines relied upon were sold for actual use that of itself establishes reduction to practice, especially where the other party might have easily seen the machines to determine whether or not they were successful reductions to practice. To the same effect is the decision in *Schneider* v. *Driggs* (162 O. G., 1000; 36 App. D. C., 116, and *Herman* v. *Fullman*, (107 O. G., 1094, affirmed by the Court of Appeals of the District of Columbia, 109 O. G., 1888.)

Indeed, where a party has, as Antoine and Travis, given the other side the names and addresses of purchasers of the machines it is the practice to hold it incumbent on the other side, if they controvert reduction to practice, to see those machines that have been sold and to show that they were not reductions to practice. This was the effect of the holding of the court of appeals in *Smith* v. *Kihlgren*, (215 O. G., 324; 43 App. D. C., 193.) The proofs of reduction to practice in that case were much more meager than they are in the present case.

Grover and Barber contend, in effect, that the making of improved machines subsequently to the production of the Exhibit E machine tends to discredit the claim of successful reduction to practice of that machine, or at least indicates that Antoine and Travis were not satisfied with the machine of the Exhibit E type, and it should be regarded as an abandoned experiment; but they are not sustained in their contention by the trend of decisions. In *Wyman* v. *Donnelly*, (104 O. G., 310; 21 App. D. C., 81,) for example, the Court of Appeals of the District of Columbia held that where after making and testing one form of ejecting mechanism for match-machines Donnelly made an improved form and showed the second form in his application, but made broad claims covering both forms, the first machine was a reduction to practice. Furthermore, Antoine and Travis have shown that they are constantly putting out new and improved forms of machines; but this in no way discredits the reduction to practice of their Exhibit E machine or indicates that it was an abandoned experiment.

It must be held that the Examiners-in-Chief were correct in their holding that Antoine and Travis have proven a reduction to practice in February, 1912, and must therefore prevail as against Grover and Barber, who did not conceive until April, 1912, and their decision is affirmed.

EX PARTE MOORE AND PACK.

Decided November 18, 1918.

PATENTS—PATENTABILITY—INVENTION—ASSOCIATION OF OLD MEANS.

Where one prior-art patent disclosed a portable cleaning-machine of the vacuum type in which the vacuum-creating means is mounted on the device and another patent disclosed such a machine having two compartments in the casing, one connected with the machine-nozzle and the other containing a rotary brush, but in which the vacuum-creating means was separately mounted and connected to the device by a pipe, *Held* that it involved no invention to make a separate compartment in the casing of the former and place a rotary brush therein in view of the latter.

APPEAL from Examiners-in-Chief.

COMBINED SUCTION AND BRUSH CLEANING-MACHINE.

Mr. Edward E. Longan and *Mr. John S. Barker* for the applicants.

WHITEHEAD, *First Assistant Commissioner:*

Applicants appeal from the decision of the Examiners-in-Chief affirming the decision of the Primary Examiner finally rejecting the claims of this application, eleven in number, of which claims 1 and 8 are illustrative:

1. In a portable cleaning machine, the combination of a suction nozzle, a suction creating device connected therewith, a sweeping device, a supporting casing for said parts, a drive wheel carried by said casing, an energy-storing device operatively connected with the suction creating device and with the sweeping device, and means for operating said energy-storing device from the said drive wheel.

8. A portable carpet-cleaning machine comprising a casing divided into two separate compartments, a dust-collecting nozzle carried at the front end of the casing and positioned to lie in close engagement with the carpet being cleaned and operating to collect the lighter particles of dust and discharge them into one of the compartments of the casing, a suction-creating device carried by the casing and in communication with the nozzle through the last mentioned compartment, a drive wheel located at the rear of the casing, connections between the drive wheel and the suction creating devices for operating the latter as the casing is moved over the surface being cleaned, and a rotary driven brush located in the other compartment of the casing and situated between the nozzle and the said drive wheel.

Auberlin, No. 444,683, January 13, 1891; Dunaway *et al.*, No. 779,773, January 10, 1905; Sturgeon, No. 996,810, July 4, 1911; Rowbotham, No. 1,007,799, November 7, 1911; Rowbotham, No. 1,007,800, November 7, 1911; Seeger, German, No. 70,688 of 1893; British patent to Nicholson, No. 14,455 of 1906; British patent to Behringer *et al.*, No. 11,413 of 1908; French patent to Martini, No. 380,336 of 1907.

The application discloses a portable cleaning-machine of the vacuum type provided with two compartments in the casing, one of which is connected to the nozzle and in the other of which is placed a brush. This brush is driven by the same wheels that operate the bellows, and there is no connection between the compartment in which it is located and the compartment which is connected to the nozzle. The shaft connected to the driving-wheels is provided with a flywheel, and there is provided an overrunning clutch, so that when the cleaner is stopped the bellows will continue to be operated for a time.

Applicants argue that they have done something more than merely add together a vacuum-cleaner and a carpet-sweeper, since by arranging the parts as shown upon moving the device backward the dust stirred up by the brush can be drawn up through the nozzle and since by placing the brush between the nozzle and the drive-wheel the device can be made light and compact.

The British patent to Behringer *et al.* shows a vacuum-cleaner in which a brush is placed in a similar relation to the suction-nozzle of a vacuum cleaning-machine. It is true that this device does not carry the suction-creating means, as in applicants' case, but is connected to a pump, which in the patent is shown as being operated by a rocking-chair. The hose 56 could, however, be connected to an air-pump, no matter where located. The patent to Sturgeon shows a vacuum-cleaner having a bellows operated from the traction-wheels. It is not seen that there would be any invention in making a separate compartment in the casing of such a machine and placing a brush therein in view of the disclosure of the British patent, where it has the same function as in applicants' device. It is argued that the machine of the British patent is not a vacuum-cleaner in the sense in which that term is generally used. The operation of the device, as described in the specification, is that of the ordinary vacuum-cleaner, and there is nothing in the drawing to show that it would not work as described.

Attention is called to a number of patents issued since this application was filed showing brushes associated with vacuum-cleaners. The claims of these patents are, however, all devoted to details of construction, and the fact that these patentees thought it advantageous to use a brush with the cleaner does not show that merely to bring them together in one machine was invention.

Nor would there be any invention in the use of a flywheel or, as expressed in the claims, an energy-storing device, in view of the common use of flywheels for a similar purpose. An example of such use in a vacuum cleaning-machine is shown in the British patent to Nicholson, and an overrunning clutch between the traction-wheels and the fan is shown in the patent to Rowbotham, No. 1,007,799.

The decision of the Examiners-in-Chief is therefore affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

GROVER AND BARBER *v.* ANTOINE AND TRAVIS.

Decided April 5, 1920.

PATENTS—INTERFERENCE—PRIORITY.

Evidence reviewed and the decision of the Commissioner of Patents awarding priority to Antoine and Travis on the ground that they were the first to conceive and reduce to practice affirmed.

Mr. Melville Church, *Mr. A. A. Thomas*, and *Mr. Alex. S. Stuart* for the appellants.

Mr. J. H. Jochum, Jr., for the appellees.

ROBB, *J.:*

Appeal from a decision of the Patent Office (274 O. G., 839) in an interference proceeding awarding priority of invention to the junior parties, Antoine and Travis. The invention is a washer-catcher in coin-controlled vending-machines, such as are used in theaters and other public places. The four counts of the issue will be sufficiently illustrated by the reproduction of the fourth count, as follows:

4. In a coin controlled machine, a casing having a coin slot or passage, a coin carrier normally free to rotate in a direction to carry the deposited coin into operative position within the machine, an upwardly extending yieldable member supported at its lower end and provided at its upper or free end with a head projecting normally into said coin slot or passage, whereby said head is adapted

to enter the opening of a washer on said coin carrier, said head having a beveled surface and an abrupt surface so arranged that said abrupt surface unyieldingly engages the inner edge of the washer and thereby positively locks said washer and coin carrier against further movement, said beveled surface permitting reverse rotation of the coin carrier for removal of the inserted washer through said coin slot, and a hand-operable member on the front wall of said casing for operating said coin carrier.

The difference between this invention and the prior art lies in a pocket and dog, the dog being described in the claims as—

an upwardly extending yieldable member supported at its lower end and provided at its upper or free end with a head projecting normally into said coin slot or passage.

It will be unnecessary further to describe the invention. The Patent Office tribunals have found that Grover and Barber, the appellants, conceived the invention in April of 1912 and reduced it to practice in January of 1913, and we accept these findings. The Examiner of Interferences held that Antoine and Travis had not established an earlier date of conception and reduction to practice. The Examiners-in-Chief and the Commissioner, however, after a very careful review of the evidence, reached the conclusion that Antoine and Travis had proven conception of the invention in the fall of 1911 and reduction to practice in the early part of 1912. They further found that a large number of machines embodying the invention were sold and shipped to the trade immediately following reduction to practice of the invention.

An examination of the record and the exhaustive and helpful briefs of counsel have convinced us that the decision appealed from was correct. Since the evidence has been carefully reviewed by both the Examiners-in-Chief and the Commissioner, no useful purpose would be served by its restatement here, and accordingly we affirm the decision without more.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE MOORE AND PACK.

Decided April 5, 1920.

PATENTS—INCORPORATION OF ONE OLD DEVICE INTO ANOTHER NOT INVENTION.

The application of a rotary brush and its coöperative parts to an old carpet-cleaning device where the parts so associated operated in the old way to effect the same results does not constitute invention.

Mr. J. S. Barker for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.:*

Appeal from a decision in the Patent Office (274 O. G., 840) rejecting certain patent claims for a portable cleaning-machine of the vacuum type. Claims Nos. 6 to 11, inclusive, are here involved. Claim numbered 8 sufficiently illustrates the group, and reads as follows:

8. A portable carpet-cleaning machine comprising a casing divided into two separate compartments, a dust collecting nozzle carried at the front end of the casing and positioned to lie in close engagement with the carpet being cleaned and operated to collect the lighter particles of dust and discharge them into one of the compartments of the casing, a suction-creating device carried by the casing and in communication with the nozzle through the last mentioned compartment, a drive wheel located at the rear of the casing, connections between the drive wheel and the suction-creating devices for operating the latter as the casing is moved over the surface being cleaned, and a rotary driven brush located in the other compartment of the casing and situated between the nozzle and the said drive wheel.

Appellant has done no more than apply to the Sturgeon device (Patent No. 996,810, July 4, 1911) a rotary brush and its coöperative parts shown in the Behringer device, (British Patent No. 11,413, of 1908.) Each element in the new combination operates in substantially the same way that it operated in the prior device, and effects substantially the same result. This is not invention. (*Grinnell Washing Company* v. *Johnson Company*, 247 U. S., 426.) Nothing more was involved than the skill of the mechanic. Since each of the Patent Office tribunals has fully considered the references, we affirm the decision without further discussion.

Affirmed.

ADJUDICATED PATENTS.

(U. S. D. C. Md.) The Sly patent, No. 710,624, for a dust-collector, *Held* valid and infringed. *W. W. Sly Mfg. Co.* v. *Pangborn Corporation*, 263 Fed. Rep., 394.

(U. S. C. C. A. Ky.) The Watson patent, No. 836,475, for an improvement on the tubular construction of rewireable screen-frames, claims 1 and 2 *Held* invalid and claim 3 *Held* valid and infringed. *Higgin Mfg. Co.* v. *Watson et al.*, 263 Fed. Rep., 378.

(U. S. C. C. A. N. J.) The Rohm patent, No. 886,411, for a process for bating hides, *Held* invalid because of the application's failure to fully and clearly disclose the invention, as required by section 4888, Revised Statutes. *Rohm et al.* v. *Martin Dennis Co.*, 263 Fed. Rep., 388.

(U. S. C. C. A. Ky.) The Watson patent, No. 956,239, for rewireable-screen construction, claims 3, 10, 11, 12, and 13 *Held* not infringed. *Higgin Mfg. Co.* v. *Watson et al.*, 263 Fed. Rep., 378.

(U. S. D. C. N. Y.) The Kurtz patent, No. 1,216,140, for a hat-lining, *Held* valid and infringed. *Kurtz et al.* v. *Blatt et al.*, 263 Fed. Rep., 392.

(U. S. C. C. A. Ill.) The Foltz patent, No. 1,235,516, for a furnace, *Held* invalid. *Eureka Smokeless Furnace Co.* v. *Consumers' Co.*, 263 Fed. Rep., 390.

INDEX

TO THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

MAY, 1920.

[The opinion of the Attorney-General is indicated by a double dagger (‡), the decisions of the Court of Appeals of the District of Columbia by one star (*), of the United States Circuit Court of Appeals by the letter (ᵈ), and of the Supreme Court of the United States by two stars (**).]

TABLE OF CASES.

	Page.
Antoine and Travis *v.* Grover and Barber	839
**Beckwith *v.* Commissioner of Patents	613
*Brown *v.* Tomlinson	613
‡ Construction of act of March 3, 1883	406
*Day *v.* Bower	408
*De Forest *v.* Richards	408
Dement. *In re*	203
Doyle and Hedley *v.* Tomlinson	613
*Grover and Barber *v.* Antoine and Travis	841
ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents	204
Moore and Pack. *Ex parte*	840
*Moore and Pack. *In re*	842
‡ Opinion of the Attorney-General	406
Shenk and Holman *v.* Clark	405
*Shenk and Holman *v.* Clark	409
Wright. *Ex parte*	405

SUBJECT-MATTER INDEX.

Act of March 3, 1883, construction of, ‡ Opinion of the Attorney-General 406

Commissioner's decision, sustained by Court of Appeals of the District of Columbia, on motion within his discretion, where no abuse is shown, **in re* Dement 203

Dedication to the public, not the result of act of March 3, 1883, invention can be used only in work for the Federal Government, ‡ Opinion of the Attorney-General 406

Interference, error not having been discovered, concurrent decisions of the Patent Office, *Brown *v.* Tomlinson 613
Doyle and Hedley *v.* Tomlinson 613
Reopening not warranted, though decision of the Commissioner, whose ruling was followed, was reversed by Supreme Court, *ex parte* Wright. 405
Refused four years after decision adverse to right to make claim in later application, party barred in earlier application by doctrine of *res adjudicata*, * *in re* Dement 203
Right to make claim, Shenk and Holman *v.* Clark 405

Invention, association of parts from two prior patents accomplishing same results in same way not invention, merely mechanical skill, *ex parte* Moore and Pack 840
**In re* Moore and Pack 842

Patentability, combination of old elements not invention, *ex parte* Moore and Pack 840
**In re* Moore and Pack 842

Priority of invention, award, *Brown *v.* Tomlinson 613
*De Forest *v.* Richards 408
*Grover and Barber *v.* Antoine and Travis 841
*Shenk and Holman *v.* Clark 409
Award appealed from, court reversed decision, *De Forest *v.* Richards 408

Reduction to practice, evidence that many machines were made and sold proves reduction in absence of controverting testimony, Antoine and Travis *v.* Grover and Barber. 839

Trade-marks, certain phrase construed and held registrable if accompanied by proper disclaimer, *Beckwith *v.* Commissioner of Patents 613

Trade-marks, certain words and phrases defined, ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents 204
Composite marks, registration not prohibited, though descriptive words may form a part, requirement to remove such words improper, *Beckwith *v.* Commissioner of Patents 613
Disclaimers, practice of allowing, though no provision in the statute, approved by court, in view of statement by Commissioner, *Beckwith *v.* Commissioner of Patents 613
Exclusive use of terms merely descriptive or geographical, ten years not expiring until after passage of act of 1905, no property rights acquired, ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents 204
Nothing which others may use for the same purpose with equal truth and right can be a valid trademark, ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents 204
Property rights recognized or created by 10 years' exclusive use doubtful or non-existent prior to act of 1905, ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents 204
Registrable mark not defined by act of 1905, though certain rules are laid down by which descriptive and geographical terms are barred, ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents 204
Registration, question of descriptiveness purely legal, *Beckwith *v.* Commissioner of Patents 613
ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents 204
Refused, continued use not prevented, but benefits of statute withheld, *Beckwith *v.* Commissioner of Patents 613
Suit under section 4915, brought in district in which neither party is resident, jurisdiction exists where defendant consents to suit, ᵈ Hercules Powder Company *v.* Newton, Commissioner of Patents .. 204

DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

MAY, 1920.

[The opinion of the Attorney-General is indicated by a double dagger (‡), the decisions of the Court of Appeals of the District of Columbia by one star (*), of the United States Circuit Court of Appeals by the letter (ᵈ), and of the Supreme Court of the United States by two stars (**).]

ABANDONED EXPERIMENT.

SUBSEQUENT CHANGE OF CONSTRUCTION ALONE DOES NOT ESTABLISH.

The making of improved machines after an alleged reduction to practice and after commercial production of such machines is not alone sufficient to discredit the claim of successful operation and warrant a holding that the earlier construction was merely an abandoned experiment.

[Antoine and Travis v. Grover and Barber, 839.

ABUSE OF DISCRETION.

See Discretion of the Commissioner of Patents.

APPEAL TO THE COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Discretion of the Commissioner of Patents.

APPEAL TO EXAMINERS-IN-CHIEF.

See Interference, 1.

BURDEN OF PROOF.

See Interference, 6.

CITIZENSHIP.

See Trade-Marks, 1.

COMBINATION OF OLD DEVICES.

See Invention.

COMMERCIAL PRODUCTION.

See Abandoned Experiment; Reduction to Practice.

COMPOSITE TRADE-MARKS.

See Trade-Marks, 13, 14, 17.

CONCURRENT DECISIONS OF TRIBUNALS OF THE PATENT OFFICE.

See Interference, 6.

CONSTRUCTION OF CLAIMS.

See Interference, 3, 4; Invention; Priority of Invention, 1.

CONSTRUCTION OF STATUTES.

PATENTS—STATUTES—ACT OF MARCH 3, 1883, CONSTRUED.

When a patent issues under the provisions of the act of March 3, 1883, (22 Stat., 603,) authorizing the Secretary of the Interior and the Commissioner of Patents to grant patents without the payment of any fee to officers of the Government, except officers and employees of the Patent Office, no dedication to the public results, but any person in the United States, including governmental officers and employees, may use the invention disclosed in the patent without the payment of royalty, provided the use be in the prosecution of work for the Federal Government.

[‡Opinion of the Attorney-General, 406.

CONSTRUCTION OF TRADE-MARK STATUTES.

See Trade-Marks, 2, 3, 4, 5, 7, 10, 11, 12, 13, 15.

DECISIONS OF THE COMMISSIONER OF PATENTS.

See Interference, 1, 5, 6; Priority of Invention, 3.

DEDICATED TO THE PUBLIC.

See Construction of Statutes.

DESCRIPTIVE TERMS.

See Trade-Marks, 2, 3, 4, 5, 7, 8, 9, 10, 13, 16, 17.

DISCLAIMERS.

See Trade-Marks, 15, 17.

DISCLOSURE OF INVENTION.

See Interference, 3; Priority of Invention, 1.

DISCRETION OF THE COMMISSIONER OF PATENTS.

APPEAL—REVIEW BY COURT OF APPEALS—QUESTIONS DISCRETIONARY WITH COMMISSIONER.

Where a motion brought before the Commissioner of Patents is directed to his discretion, his decision thereon must be sustained unless there was an abuse of discretion.

[**In re* Dement, 203.

DISSOLUTION OF INTERFERENCE.

See Interference, 1.

DRAWINGS.

See Trade-Marks, 15.

EARLIER AND LATER APPLICATIONS.

See Interference, 1.

ESTOPPEL.

See Interference, 1, 2.

EVIDENCE.

See Priority of Invention, 2, 3; Reduction to Practice.

EXCLUSIVE USE.

See Trade-Marks, 5, 6, 10, 15.

FEES.

See Construction of Statutes.

FIRST AND ORIGINAL INVENTOR.

See Priority of Invention, 2.

FORMER DECISION CITED.

See Interference, 2; Trade-Marks, 6.

FORMER DECISION DISTINGUISHED.

See Trade-Marks, 3.

GEOGRAPHICAL TERMS.

See Trade-Marks, 4, 5.

INTERFERENCE.

See Abandoned Experiments; Discretion of the Commissioner of Patents; Priority of Invention; Reduction to Practice.

1. PATENTS—PRIORITY—ESTOPPEL BY JUDGMENT IN PRIOR INTERFERENCE INVOLVING ANOTHER APPLICATION OF SAME PARTY.
Where in a tri-party interference between P., H., and D. the interference was dissolved as to one claim because D. had no right to make it, and no appeal was taken from that decision, and at the time D. had an earlier application pending in which he could make it, but did not attempt to include the earlier application in the interference until after testimony had been taken by the other parties and the interference was before the Examiners-in-Chief on appeal from an adverse decision, *Held* that the Commissioner was right in refusing to reopen the interference at that time to include the earlier application and that D. was barred by the doctrine of *res judicata* from making the claim in his earlier application after final adverse adjudication in the interference and four years after the decision denying his right to make the claims in his later application. [**In re* Dement, 203.

2. REOPENING—CHANGE IN PRACTICE.
Where in an interference involving an applicant and a patentee priority was awarded to the patentee on the ground that under the ruling in *Wintroath* v. *Chapman* (248 O. G., 1004; 46 App. D. C., 428), the applicant was estopped to make the claims and no appeal was taken from that decision, *Held* that the fact that the decision in the case cited was subsequently reversed by the Supreme Court does not warrant the reopening of the interference.
[*Ex parte* Wright, 405.

3. PATENTS—RIGHT TO MAKE CLAIM.
The disclosure of Clark considered and *Held* that he has a right to make the count in issue, which was directed to a refractive screen for headlights having a reflector comprising surfaces of variant vertical distributive dispersion and surfaces of variant lateral distributive dispersion.
[Shenk and Holman *v.* Clark, 405.

SAME—ISSUE CONSTRUED—VEHICLE-GOVERNING MEANS.
In traffic-controlling systems danger-signals operated on a vehicle considered as "vehicle-governing means" in view of the admissions of the opposing party. [*Day *v.* Bower, 408.

5. SAME—RIGHT TO MAKE CLAIM.
The Commissioner's ruling that Clark has a right to make the claim in issue reviewed and affirmed.
[*Shenk and Holman *v.* Clark, 409.

6. SAME—SAME—SAME.
Record reviewed and *Held* that appellee, Brown, has failed to overcome the burden imposed by concurrent decisions of the Patent Office tribunals holding that Tomlinson had a right to make the claims in issue, and the decision of the Commissioner of Patents therefore affirmed. [*Brown *v.* Tomlinson, 613.

INVENTION.

1. PATENTS—PATENTABILITY—ASSOCIATION OF OLD MEANS.
Where one prior-art patent disclosed a portable cleaning-machine of the vacuum type in which the vacuum-creating means is mounted on the device and another patent disclosed such a machine having two compartments in the casing, one connected with the machine-nozzle and the other containing a rotary brush, but in which the vacuum-creating means was separately mounted and connected to the device by a pipe, *Held* that it involved no invention to make a separate compartment in the casing of the former and place a rotary brush therein in view of the latter.
[*Ex parte* Moore and Pack, 840.

2. INCORPORATION OF ONE OLD DEVICE INTO ANOTHER NOT INVENTION.
The application of a rotary brush and its coöperative parts to an old carpet-cleaning device where the parts so associated operated in the old way to effect the same results does not constitute invention. [**In re* Moore and Pack, 842.

JURISDICTION.

See Trade-Marks, 1.

LEGAL QUESTION.

See Trade-Marks, 3, 4.

MOTION TO REOPEN INTERFERENCE.

See Discretion of the Commissioner of Patents; Interference, 1, 2.

PATENTEE AND APPLICANT.

See Interference, 2, 3, 5; Priority of Invention, 2.

PATENTS WITHOUT FEE.

See Construction of Statutes.

PRACTICE IN THE PATENT OFFICE.

See Interference, 2; Trade-Marks, 15.

PRIORITY OF INVENTION.

See Interference, 2, 6.

1. RIGHT TO MAKE CLAIMS.
Where in an interference between B. and D., relating to traffic-controlling systems, certain counts called for vehicle-controlling means having a retarding condition, B. disclosed only signals, *Held* that he had no right to make such claims, and priority awarded to D. [*Day *v.* Bower, 408.

2. PATENTS—ORIGINALITY.
Evidence considered and *Held* that Richards derived the invention from De Forest. [*De Forest *v.* Richards, 408.

3. SAME—DECISION AFFIRMED.
Evidence reviewed and the decision of the Commissioner of Patents awarding priority to Antoine and Travis on the ground that they were the first to conceive and reduce to practice affirmed.
[*Grover and Barber *v.* Antoine and Travis, 841.

PROPERTY RIGHTS.

See Trade-Marks, 5, 6.

PUBLIC USE AND SALE.

See Reduction to Practice.

REDUCTION TO PRACTICE.

See Abandoned Experiments; Priority of Invention, 3

MACHINES SOLD, BUT NO DIRECT EVIDENCE OF SUCCESSFUL OPERATION.
Where a party to an interference proves the construction of a device embodying the issue and the testimony is to the effect that a large number of machines of the same construction were made and sold prior to the reduction to practice of the opposing party, names and addresses of persons to whom they were shipped being given, *Held* that the testimony proves a prior reduction to practice in the absence of controverting evidence showing that the machines so alleged to have been sold were not reductions to practice.
[Antoine and Travis *v.* Grover and Barber, 839.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks, 2, 3, 4, 10, 11, 12, 14, 15, 17.

REQUIREMENTS OF THE PATENT OFFICE.

See Trade-Marks, 14.

RES ADJUDICATA.

See Interference, 1.

RESULTS.

See Invention, 2.

RIGHT TO MAKE CLAIMS.

See Interference, 1, 3, 5, 6; Priority of Invention, 1.

ROYALTY.

See Construction of Statutes.

SUITS UNDER SECTION 4915, REVISED STATUTES.

See Trade-Marks, 1.

TEN-YEARS CLAUSE.

See Trade-Marks, 5.

TERMINOLOGY.

See Trade-Marks, 6, 7, 8, 9.

TESTIMONY.

See Interference, 1; Reduction to Practice.

TRADE-MARK RIGHTS.

See Trade-Marks, 5, 6.

TRADE-MARKS.

1. SUIT UNDER SECTION 4915, REVISED STATUTES—JURISDICTION.
In a suit brought under section 4915, Revised Statutes, against the Commissioner of Patents to obtain registration of a trade-mark, where there is diversity of citizenship of the parties, although neither is a resident of the district where suit is brought, jurisdiction exists where defendant consents to the suit.
[dHercules Powder Company *v.* Newton, Commissioner of Patents, 204.

2. REGISTRATION—RIGHT GOVERNED ALONE BY STATUTORY PROVISIONS.
Upon application to register a trade-mark where the question presented is whether the mark is descriptive, and hence not registrable under the statutes, the value of the mark or the fact that dealers and buyers of the goods to which it has been applied do not associate it with the goods except as indicative of origin is immaterial and tends only to prove rights which should be protected from unfair competition. [dId.

3. SAME—DESCRIPTIVENESS OF MARK QUESTION OF LAW.
Upon application to register a trade-mark the question whether it is descriptive is a legal one where there are no contradictions of fact or contradictory inferences of fact. (*Gold* v. *Newton*, 256 O. G., 649; 254 Fed. Rep., 824, distinguished.) [dId.

4. WHAT IS A REGISTRABLE MARK NOT DEFINED BY STATUTE.
The trade-mark statute, (act of 1905, 33 Stat., 724,) as amended, does not describe or define what constitutes either a good trade-mark or a registrable trade-mark. It assumes that the word has a meaning sufficiently well known to dispense with statutory definition. It does, however, lay down some rules for the guidance of the Commissioner, among which is the provision that "no mark which consists * * * merely in words * * * which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term, shall be registered." [dId.

5. RIGHTS ACQUIRED BY TEN YEARS' EXCLUSIVE USE.
The Trade-Mark Act of 1905 (33 Stat., 724) in the so-called "ten-year clause" recognized, if it did not create, a property right previously doubtful, if not wholly non-existent; but it does not give similar rights to one who has exclusively used a merely descriptive or geographical mark for ten years expiring after the passage of the act. [dId.

6. WHAT MAY NOT BE APPROPRIATED.
"No sign or form of words can be appropriated as a valid trade-mark which from the nature of the fact conveyed by its primary meaning others may employ with equal truth, and with equal right, for the same purpose." (*Standard Paint Co.* v. *Trinidad Asphalt Co.*, 165 O. G., 971; 220 U. S., 446.) [dId.

7. DESCRIPTIVE MARKS—"MERELY" DESCRIPTIVE.
"Merely descriptive" (Trade-Mark Act of 1905, section 5 (*b*)) means *only* descriptive, or nothing more than descriptive. It may be that the force of the adverb is satisfied by the addition to the descriptive word of a picture or device, or by qualifying the description through the addition of another word. * * * But if the proposed trade-mark consists of a single word, then that word standing alone is merely descriptive, or it is not descriptive at all." [dId.

8. "INFALLIBLE," FOR SMOKELESS POWDER, MERELY DESCRIPTIVE.
The word "Infallible," as applied to smokeless powder, *Held* merely descriptive. Perhaps, when accurately used, it refers always to mental processes, but in common acceptation it means "exempt from uncertainty" or "absolutely trustworthy." [dId.

9. SUGGESTIVENESS AND DESCRIPTIVENESS DISTINGUISHED.
"The difference between suggestion and description is often hard to perceive. An explosive powder marked as "Hercules" would be suggestive, and no person other than its maker could with equal right and equal truth call his powder by that name or any derivation therefrom; but "Infallible" is merely descriptive because it has no association with the Hercules Company other than that acquired by a long course of business nomenclature." [dId.

10. ACT OF 1905, SECTION 5 CONSTRUED—MARKS MERELY DESCRIPTIVE.
In the Trade-Mark Act of 1905 (33 Stat., 724), the proviso of section 5 that "no mark which consists * * * merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods * * * shall be registered" is simply an expression in statutory form of the prior general rule of law that words merely descriptive are not a proper subject for exclusive trade-mark appropriation.
[**Beckwith *v.* Commissioner of Patents, 613.

11. SAME.
The requirement of the act of 1905, section 5, that "no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark unless, etc.," is just as imperative as the prohibition of the proviso against registration in cases specified. [**Id.

12. REGISTRATION—LIBERAL ATTITUDE SHOULD BE ADOPTED.
"Of course, refusal to register a mark does not prevent a former user from continuing its use, but it deprives him of the benefits of the statute, and this should not be done if it can be avoided by fair, even liberal, construction of the act, designed as it is to promote the domestic and foreign trade of our country." [**Id.

13. COMPOSITE MARKS CONTAINING DESCRIPTIVE TERMS—REGISTRATION NOT PROHIBITED.
A composite mark including arbitrary matter and a descriptive term forming a definitely-positioned part of the mark does not fall within the terms of the statute, since such a mark does not consist merely ("only") of descriptive words. [**Id.

14. SAME—REQUIREMENT TO DELETE DESCRIPTIVE WORDS IMPROPER.
The requirement that descriptive words constituting part of a composite mark be deleted as a prerequisite to registration *Held* improper, since such deletion would often result in so changing the mark sought to be registered from the form in which it had been used in actual trade that it would not be recognized as the same mark. [**Id.

15. SAME—PRACTICE OF ALLOWING DISCLAIMERS APPROVED.
"While there is no specific provision for disclaimers in the trade-mark statute, the practice of using them is commended to our judgment by the statement of the Commissioner of Patents that, so far as known, no harm came to the public from the practice of distinguishing, without deleting, non-registrable matter in the drawing of the mark as registered, when a statement, forming a part of the record, was required that the applicant was not making claim to an exclusive appropriation of such matter except in the precise relation and association in which it appeared in the drawing and description." [**Id.

16. "MOISTAIR HEATING SYSTEM"—DESCRIPTIVE.
The words "Moistair Heating System" applied to "hot air and combined hot air and hot water heaters and furnaces" are merely descriptive of a claimed property or quality of applicant's heating system, that by it moisture is imparted to the air in the process of heating. [**Id.

17. SAME—COMPOSITE MARK—REGISTRATION.
A trade-mark for heating systems consisting of certain arbitrary matter and the descriptive words "Moistair Heating System" *Held* registrable if an appropriate disclaimer of the descriptive words be made by the applicant. [**Id.

UNFAIR COMPETITION.

See Trade-Marks, 2.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A/S. Arendal Smelteverk. (See Kaaten, Einar, assignor.)
Abegg, Julius, West Hoboken, N. J. Stylographic pen. No. 1,339,011; May 4; v. 274; p. 66.
Adair, Thomas D., Jr., assignor to Standard Thermometer Company, Boston, Mass. Carbureter-adjusting device. No. 1,338,849; May 4; v. 274; p. 37.
Adams, Harry E., Belle Vernon, Pa. Soap-holding attachment for scrub-brushes. No. 1,338,665; May 4; v. 274; p. 3.
Adsit, Frank W., St. Paul, Minn. Photographic phonograph. No. 1,338,719; May 4; v. 274; p. 13.
Aktiebolaget Pump-Separator. (See Munters, Anders J. E., assignor.)
Albright, Henry F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding, polishing, and buffing machine and the like. No. 1,339,312; May 4; v. 274; p. 122.
Aluminum Solder Co., The (See de St. Laurent, Eugene E. P. J. P. S. J., assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, W. E., and Normal, assignors.)
American Bosch Magneto Corporation. (See Tost, Max.)
American Can Company. (See Harbeck, Jervis R., assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American Clay Machinery Company, The. (See Brown, Davis, assignor.)
American Drying Processes. (See Lissauer, A. W. Fleisher, and Keyes, assignors.)
American Mailing Device Corporation of New York. (See Wuesthoff, Frederick J., assignor.)
American Optical Company. (See Laabs, Max A., assignor.)
American Thermophone Company. (See van Doorn, Anthonius M., assignor.)
American Tool Works Company, The. (See Sosa, Augustus M., assignor.)
Ames, Adelbert, Jr., Tewkesbury, Mass. Light-signaling. No. 1,339,085; May 4; v. 274; p. 81.
Ammons, William H., Jackson Springs, N. C. Watermotor. No. 1,339,012; May 4; v. 274; p. 67.
Anderson, Edmund B. (See Faust, L., and Anderson.)
Anderson, Homer, Peekskill, N. Y. Nut-shaving machine. No. 1,339,086; May 4; v. 274; p. 82.
Andrews, Searle E., Pittsburgh, Pa. Compass. No. 1,338,666; May 4; v. 274; p. 3.
Andrus, George S., Akron, Ohio. Vulcanizer. No. 1,339,151; May 4; v. 274; p. 93.
Aner, Martin A., Liverpool, England. Aerial railway. No. 1,338,663; May 4; v. 274; p. 3.
Armstrong Cork Company. (See Blakeney, John W., assignor.)
Arnold, Howard P., Rockland, Mass. Manufacturing cutting-tools. No. 1,339,152; May 4; v. 274; p. 93.
Artkop, Jan, Detroit, Mich. Bread-molding machine. No. 1,339,087; May 4; v. 274; p. 82.
Ashton, E. C. (See Springer, Elijah H., assignor.)
Atlantic Service Company. (See Schaefer, Adolph O., assignor.)
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Aviss, Alfred, Rugby, England. Cardboard and like boxes which are made collapsible. No. 1,338,664; May 4; v. 274; p. 3.
Badger, Arthur C., Newton, assignor to E. B. Badger & Sons Company, Boston, Mass. Holder for wood being distilled. No. 1,338,667; May 4; v. 274; p. 3.
Badger, E. B., & Sons Company. (See Badger, Arthur C., assignor.)
Baker & Company. (See Van Allen, George L., assignor.)
Baker, Cloice B., assignor of one-half to W. Bawden, St. Louis, Mo. Support for running-boards for vehicles. No. 1,339,379; May 4; v. 274; p. 135.
Baker, Frank. (See Nathan, F. L., Rintoul, and Baker.)
Baker, Henry, administrator. (See Nathan F. L., Rintoul, and Baker.)
Ball, John R. (See Rogers, Homer S., assignor.)
Balsam, Maurice M., New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,338,668; May 4; v. 274; p. 4.
Bank, William, Chicago, Ill. Saw-filing machine. No. 1,339,153; May 4; v. 274; p. 93.

Barbour, John P. (See Pelton, C. W., and Barbour.)
Barnes, Frederick W., assignor to Eastman Kodak Company, Rochester, N. Y. Developing-rack. No. 1,339,088; May 4; v. 274; p. 82.
Barrell Holding and Manufacturing Company. (See Ratzburg, Victor P., assignor.)
Barrett, Herbert L., Opportunity, Wash. Feeding mechanism. No. 1,339,051; May 4; v. 274; p. 75.
Bascom, Eric W., Alstead, N. H. Stable-cleaning means. No. 1,339,089; May 4; v. 274; p. 82.
Bassler, Edwin M., Milwaukee, Wis. Electrical welding-machine. No. 1,338,762; May 4; v. 274; p. 21.
Bauer, Franz, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Stop device. No. 1,339,052; May 4; v. 274; p. 75.
Bauert, William H., Roseville, New South Wales, Australia. Hat-ventilation means. No. 1,339,154; May 4; v. 274; p. 94.
Baumgartner, Arthur, assignor to Ira Co. Fabrique Suisse d'Articles en bois, Schweizerische Holzwarenfabrik, Swiss Wood Works, Soleure, Switzerland. Blotting-pad. No. 1,338,669; May 4; v. 274; p. 4.
Baush Machine Tool Company. (See Calkins, Charles H., assignor.)
Bawden, William. (See Baker, Cloice B., assignor.)
Bear, John F., assignor to The Ohio Suspender Company, Mansfield, Ohio. Suspender-link. No. 1,338,850; May 4; v. 274; p. 37.
Bearden, Fred E., Chesnee, S. C. Heddle-harness-spacer machine. No. 1,339,313; May 4; v. 274; p. 122.
Beaulieu, Eugene A., Graceville, Minn. Folding emergency-tire. No. 1,338,807; May 4; v. 274; p. 29.
Beck, Edward H. (See Tod, G. H., and Beck.)
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Copying and enlarging camera. No. 1,339,090; May 4; v. 274; p. 82.
Beckwith, Edward P., Garrison, N. Y. Stationery appliance. No. 1,339,155; May 4; v. 274; p. 94.
Beldam, William R., London, England. Means for packing joints. No. 1,339,156; May 4; v. 274; p. 94.
Bell, Daniel J., Salamanca, N. Y. Expelling-pin. No. 1,339,157; May 4; v. 274; p. 94.
Bellwood, Robert A. (See Downs, C., Bellwood, and Turnill.)
Benefiel, Claude, Bremerton, Wash., assignor of one-half to W. A. Clench, Seattle, Wash. Chain saw. No. 1,339,091; May 4; v. 274; p. 83.
Benjamin, George H., New York, N. Y. Method of and apparatus for drying fruits, vegetables, and other substances. No. 1,339,092; May 4; v. 274; p. 83.
Bennett, George L., Hastings-on-Hudson, N. Y. Ice-vending machine. No. 1,339,053; May 4; v. 274; p. 75.
Bennett, Leland V., Westerville, Ohio. Game-board. No. 1,339,013; May 4; v. 274; p. 67.
Bennett, Reuel W., Indianapolis, Ind., and E. M. Jones, Adrian, Mich.; said Jones assignor to said Bennett. Apparatus for conducting experiments. No. 1,338,967; May 4; v. 274; p. 58.
Berg, Alexander, St. Louis, Mo. Hide-stretcher. No. 1,339,093; May 4; v. 274; p. 83.
Bernier, Joseph J., Chartley, Mass. Separable cuff-button. No. 1,339,314; May 4; v. 274; p. 122.
Berry, Robert C., Indianapolis, Ind. Carbon-removing means for internal-combustion engines. No. 1,339,014; May 4; v. 274; p. 67.
Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Sprocket-chain. No. 1,338,808; May 4; v. 274; p. 30.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Beutler, Oswald H., South Bend, Ind. Antiskid-chain repair-link. No. 1,338,851; May 4; v. 274; p. 37.
Bevan, William W., Melrose, and C. E. Clarke, Winthrop, Mass. Automatic paper-cup-forming machine. No. 1,339,315; May 4; v. 274; p. 122.
Bishop, Ernest T. (See Bolton, W., and Bishop.)
Bishop, Merle E., Heyworth, Ill. Handle for various articles. No. 1,338,968; May 4; v. 274; p. 58.
Björnstad, Jörgen, Reading, England. Apparatus for producing sound. No. 1,339,158; May 4; v. 274; p. 94.
Blackburne, Albert. (See Hutchinson, Warren B., assignor.)

Blackledge, John T., assignor of two-fifths to C. Hartshorn, Elvins, Mo. Automatic mine-car coupling. No. 1,339,016; May 4; v. 274; p. 67.

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press-tripping mechanism. No. 1,339,316; May 4; v. 274; p. 122.

Blair, Peter W., Quincy, assignor to The Haydenville Company, Haydenville, Mass. Drinking-fountain. No. 1,339,159; May 4; v. 274; p. 94.

Blake, Albert C., Buffalo, N. Y. Nut-lock. No. 1,339,015; May 4; v. 274; p. 67.

Blakeney, John W., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole and making same. No. 1,339,160; May 4; v. 274; p. 95.

Blydenburgh, Daniel, South Attleboro, Mass. Carriage-threading device. No. 1,338,809; May 4; v. 274; p. 30.

Bock, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,338,763; May 4; v. 274; p. 22.

Bolton, Wilford, Accrington, and E. T. Bishop, Reading, England. Means for measuring the pitch of screws and the like. No. 1,338,670; May 4; v. 274; p. 4.

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borger, Henry E. (See Libby, A. D. T., and Borger.)

Boss, Leigh C. (See Perl, E. G., and Boss.)

Boughen, Malachi F., assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel lathe. No. 1,339,017; May 4; v. 274; p. 68.

Bowman, Ford C., Wyoming, Ohio, assignor to the Philip Carey Manufacturing Company, Lockland, Ohio. Preformed expansion-joint strip. No. 1,339,094; May 4; v. 274; p. 83.

Boyce, Charles A., Worcester, Mass. Nursery-bottle holder. No. 1,339,018; May 4; v. 274; p. 68.

Bradley & Vrooman Company. (See Davidson, Donald, assignor.)

Bradshaw, Granville E., Walton-on-Thames, England. Carbureter. No. 1,339,095; May 4; v. 274; p. 83.

Brandt, Carl A. W., Manhasset, N. Y., and A. J. Langelier, Providence, R. I., assignors to Locomotive Superheater Company, New York, N. Y. Swaging-machine for making U-shaped pipe-bends. No. 1,339,054; May 4; v. 274; p. 75.

Brandt, Charles D., New York, N. Y., assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump-piston. No. 1,338,765; May 4; v. 274; p. 22.

Brazeal, Thomas E., Maitland, W. Va. Fluid-pressure circuit-closer. No. 1,338,896; May 4; v. 274; p. 45.

Brisendine, Guy F., Decatur, Ill. Check and deposit-slip cabinet. No. 1,339,255; May 4; v. 274; p. 112.

Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Mounting for instruments. No. 1,338,766; May 4; v. 274; p. 22.

British Automobile Equipment Company. (See Cooke, George F., assignor.)

Britts, Bancroft B. (See Britts, Peter W. and B. B.)

Britts, Peter W. and B. B., Portland, Oreg. Punch. No. 1,338,969; May 4; v. 274; p. 58.

Brock, Frank P. (See Redman, L. V., Weith, and Brock.)

Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,338,971; May 4; v. 274; p. 59.

Broldo, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Superheater-header. No. 1,338,972; May 4; v. 274; p. 59.

Brooks, Elbert J., Sparta, Wis. Chain attachment. (Reissue.) No. 14,851; May 4; v. 274; p. 135.

Brooks, Roscoe A., assignor to Western Tire & Rubber Works, Chicago, Ill. Tire-retreading apparatus. (Reissue.) No. 14,852; May 4; v. 274; p. 135.

Brown & Bigelow. (See Welcker, Paul H., assignor.)

Brown, Davis, Bucyrus, Ohio, assignor to The American Clay Machinery Company. Casting iron screen-plates for steel grids. No. 1,339,096; May 4; v. 274; p. 84.

Brown, Douglas R., Coffeyville, Kans. Oil-pump-operating mechanism. No. 1,339,097; May 4; v. 274; p. 84.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of generators. No. 1,338,897; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,898; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, and J. M. Hopwood, Pittsburgh, Pa.; said Brown assignor to said Hopwood. Combustion-regulating method and mechanism. No. 1,338,899; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,900; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,901; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of furnaces. No. 1,338,902; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of generators. No. 1,339,055; May 4; v. 274; p. 76.

Brown, Robert, Montrose, Colo. Puzzle ring and bracelet, &c. No. 1,338,973; May 4; v. 274; p. 59.

Browning, George W., Clinton, N. Y. Fertilizer-distributer. No. 1,339,256; May 4; v. 274; p. 112.

Brunelle, Arthur, Madoc, assignor of one-half to H. L. Gordon, Flatville, Mont. Fly-chaser. No. 1,338,810; May 4; v. 274; p. 30.

Brunton, David W., Denver, Colo. Illuminated transit. No. 1,339,019; May 4; v. 274; p. 68.

Bryan, William E., Akron, Ohio. Sizing or separating apparatus. No. 1,339,161; May 4; v. 274; p. 95.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Change-speed gearing. No. 1,338,974; May 4; v. 274; p. 59.

Buensod, Alfred C., assignor to The Tobacco Treating Co. Inc., New York, N. Y. Curing tobacco. No. 1,339,373; May 4; v. 274; p. 133.

Buensod, Alfred C., assignor to The Tobacco Treating Co. Inc., New York, N. Y. Curing tobacco. No. 1,339,374; May 4; v. 274; p. 134.

Buensod, Alfred C., New York, N. Y. Curing and treating tobacco. No. 1,339,375; May 4; v. 274; p. 134.

Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,339,020; May 4; v. 274; p. 68.

Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Duplex-acting percussive boiler-tube cleaner. No. 1,339,098; May 4; v. 274; p. 84.

Burnham, Lincoln, Urbana, Ohio. Meter. No. 1,338,852; May 4; v. 274; p. 37.

Burnham, William A., Irvington, N. Y. Sash-operating mechanism. No. 1,338,671; May 4; v. 274; p. 4.

Burrill, John R. (See Turner, L. P., and Burrill.)

Burton, William H., and C. J. Wilkerson, East St. Louis, Ill. Aerial-mail exchange. No. 1,338,970; May 4; v. 274; p. 59.

Busk, Anthony S., Woodhaven, assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,339,099; May 4; v. 274; p. 84.

Calhoun, George E., Amsterdam, N. Y. Brake-lining dressing. No. 1,338,811; May 4; v. 274; p. 30.

Calhoun, John B., Apollo, Pa. Package-tie. No. 1,339,317; May 4; v. 274; p. 123.

Calkins, Charles H., Ludlow, Mass., assignor to Baush Machine Tool Company. Composite gear. No. 1,338,672; May 4; v. 274; p. 4.

Callahan, James M., Washington, D. C. Swagger-stick. No. 1,339,162; May 4; v. 274; p. 95.

Callahan, James M., Washington, D. C. Swagger-stick. No. 1,339,257; May 4; v. 274; p. 112.

Carborundum Company, The. (See Hutchins, Otis, assignor.)

Carborundum Company, The. (See Linbarger, Silas C., assignor.)

Carey, Philip S., Manufacturing Co., The. (See Bowman, Ford C., assignor.)

Carlson, Wendell L., and E. C. Hanson, Washington, D. C. Electrotherapeutic apparatus. No. 1,338,812; May 4; v. 274; p. 30.

Carlucci, Rocco T., West New York, assignor to Oscar Schmidt, Inc., Jersey City, N. J. Banjo. No. 1,339,318; May 4; v. 274; p. 123.

Carroll, Fred M., assignor to The National Cash Register Company, Dayton, Ohio. Printing mechanism for cash-registers. No. 1,338,903; May 4; v. 274; p. 47.

Cauley, William F., Wade Miss. Automobile-spring. No. 1,338,673; May 4; v. 274; p. 5.

Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Spark-coil. No. 1,339,100; May 4; v. 274; p. 84.

Central Tool Co., The. (See Jaques, Fernando O., Sr., assignor.)

Chain Belt Company. (See Bethke, Leo, assignor.)

Champion, Albert J., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,338,674; May 4; v. 274; p. 5.

Champion Ignition Company. (See Champion, Albert J., assignor.)

Chapman, Fred H., Winchester, Mass. Ball-bearing spindle. No. 1,338,904; May 4; v. 274; p. 47.

Chase, L. C., & Company. (See Norcross, Walter E., assignor.)

Chemical Foundation, The. (See Goldschmidt, H., and Müller, assignors.)

Chemical Foundation, Inc., The. (See Graaff, Clemens, assignor.)

Chemical Foundation, The. (See Strauss, Benno, assignor.)

Chemical Foundation Company, The. (See Wirth, Ernst, assignor.)

Chen, Kungche, Shanghai, China. Camera. No. 1,339,319; May 4; v. 274; p. 123.

Chiarelli, Anthony, New York, N. Y. Mechanical roller-skate. No. 1,338,813; May 4; v. 274; p. 30.

Childers, Marion G., Willows, Calif. Hydrocarbon-burner. No. 1,338,853; May 4; v. 274; p. 37.

Christopher, Calvin F., Canton, assignor of one-half to J. H. Everett, Bryson City, N. C. Collapsible box. No. 1,339,021; May 4; v. 274; p. 68.

Church, Edmund S., Chicago, Ill. Check-valve. No. 1,339,101; May 4; v. 274; p. 85.

Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Headlight for vehicles. No. 1,338,675; May 4; v. 274; p. 5.

Clamer, George F., Collegeville, Pa. Electric system for storage and measurement of gasolene. No. 1,338,814; May 4; v. 274; p. 31.

Clark, A. C., & Co. (See Clark, Albert C., assignor.)

Clark, Albert C., assignor to A. C. Clark & Co., Chicago, Ill. Anesthetic apparatus. No. 1,338,905; May 4; v. 274; p. 47.

Clark, Edward, Milwaukee, Wis. Vehicle-spring. No. 1,338,854; May 4; v. 274; p. 38.

Clarke, Charles E. (See Bevan, W. W., and Clarke.)

Claus, Emil L., Milwaukee, Wis. Ignition-torch for gas-burners. No. 1,339,102; May 4; v. 274; p. 85.

Clench, William A. (See Benefiel, Claude, assignor.)

Cleworth, Ernest R., St. Paul, Minn. Heater. No. 1,338,855; May 4; v. 274; p. 38.

Clifford, William E., Memphis, Tenn. Separating wood-tars and pyroligneous acid. No. 1,339,022; May 4; v. 274; p. 69.

Close, William F., Waterloo, Iowa. Holder for liquid-containers. No. 1,339,163; May 4; v. 274; p. 95.

Clough, William R., Alton, N. H. Pocket implement. No. 1,339,164; May 4; v. 274; p. 95.

Coddington, Charles C. (See Fite, C. V., and Coddington.)

Coffey, Joseph H., and J. H., Jr., Toronto, Ontario, Canada. Forming tubular cord fabrics. No. 1,339,103; May 4; v. 274; p. 85.

Coffey, Joseph H., Jr. (See Coffey, J. H. and J. H., Jr.)

Cohon, Benjamin J., Westwood, assignor of one-half to L. Moskowitz, Bayonne, N. J. Latching device. No. 1,339,320; May 4; v. 274; p. 123.

Coke-Hill, Lionel, Montreal, Quebec, Canada. Concrete vessel. No. 1,338,815; May 4; v. 274; p. 31.

Cole, William F., Waco, Tex. Apparatus for forming gun-barrels. No. 1,339,023; May 4; v. 274; p. 69.

Collins, Fonzo M., and J. H. Glenn, Holtville, Calif. Toy. No. 1,339,165; May 4; v. 274; p. 95.

Collins, William A., Vancouver, British Columbia, Canada. Soap-container. No. 1,339,166; May 4; v. 274; p. 96.

Comfort, Edward W. (See Thompson, A. W., and Comfort.)

Condran, Joseph J., New Orleans, La. Bumpers. No. 1,339,167; May 4; v. 274; p. 96.

Cone Carrier Corporation. (See McIntosh, Frank E., assignor.)

Connecticut Telephone & Electric Company. (See Cavanagh, John F., assignor.)

Connecticut Telephone & Electric Company, The. (See Livingston, Stanley D., assignor.)

Constantinesco, George, Alperton, and J. R. Middleton, London, England. Storage of energy due to an explosion. No. 1,338,676; May 4; v. 274; p. 5.

Cook, Frederick B., New York, N. Y. Mail-chute. No. 1,338,975; May 4; v. 274; p. 60.

Cook, Frederick B., New York, N. Y. Mail-chute. No. 1,338,976; May 4; v. 274; p. 60.

Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)

Cook, Thomas E., and A. T. Freije, Rincon, N. Mex. Locks for tire-casings. No. 1,338,677; May 4; v. 274; p. 5.

Cooke, George F., assignor to British Automobile Equipment Company Limited, London, England. Method and apparatus for manufacturing radiator-tubes. No. 1,339,104; May 4; v. 274; p. 85.

Corning Glass Works. (See Churchill, William, assignor.)

Coté, Theodore, Duluth, Minn. Fishhook. No. 1,338,856; May 4; v. 274; p. 38.

Coulson, William J., Houston, Tex. Pump-piston. No. 1,338,906; May 4; v. 274; p. 47.

Coulson, William J., Houston, Tex. Valve-flushing means. No. 1,338,907; May 4; v. 274; p. 47.

Counselman, Theodore B. (See Swart, W. G., Jordan, Davis, and Counselman.)

Cox, Harry S., Clayton, N. Mex. Automobile-wheel. No. 1,339,168; May 4; v. 274; p. 96.

Cox, William F., assignor to Sanitary Heating and Ventilating Company, Incorporated, Danville, Va. Apparatus for cleaning, moistening, and cooling air. No. 1,339,105; May 4; v. 274; p. 85.

Crawford, Joseph L., Raymond, Wash. Razor. No. 1,338,908; May 4; v. 274; p. 48.

Crouch, William S., Tacoma, Wash., assignor to Line Carrying Buoy Company. Buoy. No. 1,339,321; May 4; v. 274; p. 123.

Cultitractor Company. (See Stahl, Michael, assignor.)

Curran, William F., Annapolis, Md. Sanitary drinking-fountain. No. 1,339,322; May 4; v. 274; p. 124.

Cutler-Hammer Mfg. Co., The. (See Fernow, Bernard E., Jr., assignor.)

Dain, A. L. (See Jones, Harry H., assignor.)

Dakin, Isaac C., Owosso, Mich. Grain and food cooker. No. 1,339,323; May 4; v. 274; p. 124.

Darr, Harry O., near Marion, Iowa. Differential-locking mechanism. No. 1,338,720; May 4; v. 274, p. 13.

Dauster, John, Wilkinsburg, Pa. Fan. No. 1,339,169; May 4; v. 274; p. 96.

Davenport, John R., Hoxie, Ark. Timber-cutting machine. No. 1,338,977; May 4; v. 274; p. 60.

Davidson, Donald, assignor to Bradley & Vrooman Company, Chicago, Ill. Stabilizing polysulfids and the products of such methods. No. 1,338,678; May 4; v. 274; p. 60.

Davidson, George, Britannia Beach, British Columbia, Canada. Device for pulling rock-drills when stuck. No. 1,339,024; May 4; v. 274; p. 69.

Davis, Edward W. (See Swart, W. G. Jordan, Davis, and Counselman.)

Davis, Henry P., New York, N. Y. Window-frame. No. 1,339,170; May 4; v. 274; p. 96.

Davis, William J., Bush Hill Park, England. Stamp-affixing machine. No. 1,338,978; May 4; v. 274; p. 60.

Davis-Bournonville Company. (See Buckman, Worthy C., assignor.)

Dauteuil, Fernand. (See Krèe, P. M., and Dauteuil.)

Davison, Neville C., Edgeworth, Pa. Fuel-burner. No. 1,338,679; May 4; v. 274; p. 6.

Deam, Henry D., Benton Harbor, Mich. Salvaging apparatus. No. 1,338,816; May 4; v. 274; p. 31.

Dean, James, New York, N. Y. Motor-driven vehicle. No. 1,338,680; May 4; v. 274; p. 6.

Dean-Osgood, Henry J., Loughborough, assignor to H. W. Sullivan, London, England. Tumbler-switch. No. 1,339,171; May 4; v. 274; p. 96.

Delano, James K., New York, N. Y. Power transmission. No. 1,339,258; May 4; v. 274; p. 112.

Delco-Light Company, The. (See Kettering, Charles F., assignor.)

De Luca, Pasquale T., New York, N. Y. Cushion-heel for shoes. No. 1,338,817; May 4; v. 274; p. 31.

Demaine, George, Nogales, Ariz. Ore-separating machine. No. 1,339,056; May 4; v. 274; p. 76.

Dempsey, Thomas J., Corry, Pa. Surface trimming or planing machine. No. 1,339,172; May 4; v. 274; p. 97.

Dennington, Arthur R., East Orange, N. J., assignor to Westinghouse Lamp Company. Optical apparatus and operating same. No. 1,338,818; May 4; v. 274; p. 31.

De St. Laurent, Eugene E. P. J. P. S. J., Twickenham, England, assignor to The Aluminum Solder Co. Limited. Manufacturing solder. No. 1,338,966; May 4; v. 274; p. 58.

Detroit Carrier and Manufacturing Company. (See Taylor, Huston, assignor.)

Detroit Stove Works. (See Schall, Henry D., assignor.)

De Vries, Herman D., Grand Rapids, Mich. Ornamenting wood. No. 1,339,259; May 4; v. 274; p. 112.

Dietz, R. E., Company. (See Everett, Ernest C., assignor.)

Dittmar, Elmer C., Williamsport, Pa. Apparatus for coating and finishing flooring. No. 1,339,106; May 4; v. 274; p. 86.

Dittmar, Elmer C., Williamsport, Pa. Apparatus for coating and finishing flooring. No. 1,339,107; May 4; v. 274; p. 86.

Diver, Bertice M., Indianapolis, Ind. Automobile-body construction. No. 1,339,325; May 4; v. 274; p. 124.

Dixon, David J., Tacoma, Wash. Cutter-head. No. 1,338,819; May 4; v. 274; p. 32.

Dobson, Daniel J., Greenlee Station, N. C. Machine for ballasting railway-tracks. No. 1,338,681; May 4; v. 274; p. 6.

Dorman, John H., New York, N. Y. Jack. No. 1,338,682; May 4; v. 274; p. 6.

Dorr Company, The. (See Peck, Charles L., assignor.)

Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)

Douledes, Christ, Schenectady, N. Y. Condiment-holder. No. 1,339,173; May 4; v. 274; p. 97.

Dovener, William N., Washington, D. C. Change-counter. No. 1,338,683; May 4; v. 274; p. 7.

Downs, Charles, R. A. Bellwood, Kingston-upon-Hull, and T. W. Turnill, Cottingham, near Kingston-upon-Hull, England. Extracting oil from vegetable seeds, nuts, and the like. No. 1,338,909; May 4; v. 274; p. 48.

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Dreyfus, Henry, London, England. Manufacture of acetic anhydrid. No. 1,338,979; May 4; v. 274; p. 60.

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Duffey, Edward. (See Thompson, Joseph W., assignor.)

Duggan, Charles E., Los Angeles, Calif. Trunk and suit-case fastener. No. 1,339,174; May 4; v. 274; p. 97.

Dunham, Bert G., Hawthorne, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Two-wire multiple automatic telephone system. No. 1,339,175; May 4; v. 274; p. 97.

Dunlap, Frederick L., Chicago, Ill., and R. A. Kuever, Iowa City, Iowa. Treating fruit-juices. No. 1,338,684; May 4; v. 274; p. 7.

Dyer, Leonard H., Greenwich, Conn. Internal-combustion engine. No. 1,339,176; May 4; v. 274; p. 97.

Dyer, Leonard H., Greenwich, Conn. Power plant. No. 1,339,177; May 4; v. 274; p. 97.

Dysart, Marby F., Huntington, Tex. Window attachment. No. 1,339,178; May 4; v. 274; p. 98.

Eanes, Arthur R., Jr., Draper, N. C. Pick take-up shuttle. No. 1,338,820; May 4; v. 274; p. 32.

Earl, Henry E., Indianapolis, Ind. Automatic weighing-scale. No. 1,339,326; May 4; v. 274; p. 124.

Eastman Kodak Company. (See Barnes, Frederick W., assignor.)

Eastman Kodak Company. (See Becker, Joseph, assignor.)

Edwards, Albert Y., Springfield, Ohio. Internal-combustion engine. No. 1,338,721; May 4; v. 274; p. 14.

Eisner, Max, and A. M. Freeman, Sioux Falls, S. D. Rotary toothbrush. No. 1,338,821; May 4; v. 274; p. 32.

Electric Boat Company. (See Gunn, Thomas M., assignor.)

Elmen, George P., Lincoln, Nebr. Vibrator. No. 1,339,179; May 4; v. 274; p. 98.

Engineering Products Corporation. (See Burlingham, William, assignor.)

Enriquez, Magdalena de los S., New York, N. Y. Lady's garter. No. 1,338,858; May 4; v. 274; p. 39.

Enslin, Herbert E., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for lacing shoe-uppers. No. 1,338,910; May 4; v. 274; p. 48.
Entwistle, T. C., Company. (See Farrell, James E., assignor.)
Entz, Justus B., Cleveland, Ohio. Engine-starting and automobile-lighting system. No. 1,338,857; May 4; v. 274; p. 38.
Erdoes, Julius, and E. Sas, assignors to The Metallograph Corporation, New York, N. Y. Napkin-ring. No. 1,339,180; May 4; v. 274; p. 98.
Essex Motors. (See Fekete, Stephen I., assignor.)
Etablissements Continsouza, Société Anonyme. (See Figour, Maurice, assignor.)
Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 1,338,911; May 4; v. 274; p. 48.
Everett, John H. (See Christopher, Calvin F., assignor.)
Fahrenholz, Martin H., Norfolk, Nebr. Aerial torpedo. No. 1,339,181; May 4; v. 274; p. 98.
Fairbanks, Morse & Co. (See Thompson, H. E., Lindsey, and Rix, assignors.)
Farmer, James D., St. Louis, Mo. Valve-lock. No. 1,338,912; May 4; v. 274; p. 48.
Farnum, William C., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Cutter. No. 1,338,822; May 4; v. 274; p. 32.
Farrell, James E., New Bedford, assignor to T. C. Entwistle Company, Lowell, Mass. Pneumatic lint-clearer for warping-machines. No. 1,339,182; May 4; v. 274; p. 99.
Faust, Levin, and E. B. Anderson, assignors to Mechanics Machine Company, Rockford, Ill. Automobile-locking device. No. 1,338,915; May 4; v. 274; p. 49.
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
Fekete, Stephen I., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Cooling apparatus for internal-combustion engines. No. 1,338,722; May 4; v. 274; p. 14.
Fellows, Edwin R., Springfield, Vt. Gear-generating machine. No. 1,338,685; May 4; v. 274; p. 7.
Fennessy, John P., Providence, R. I. Snap-hook for tire-chains. No. 1,338,686; May 4; v. 274; p. 7.
Felthousen, John H., assignor to S. Morgan Smith Company, York, Pa. Turbine. No. 1,339,183; May 4; v. 274; p. 99.
Fernow, Bernard E., Jr., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetically-controlled brake. No. 1,338,980; May 4; v. 274; p. 61.
Fiege, Raymond G., Cleveland, Ohio. Automatic oiler. No. 1,338,914; May 4; v. 274; p. 49.
Figour, Maurice, assignor to Etablissements Continsouza, Société Anonyme, Paris, France. Star-wheel transmission. No. 1,338,823; May 4; v. 274; p. 32.
Firsching, Joseph A., Utica, N. Y. Winding and dyeing machine and winding and dyeing yarn, thread, and the like. No. 1,339,184; May 4; v. 274; p. 99.
Fisher, Edwin J., New York, N. Y. Match-lighter. No. 1,339,185; May 4; v. 274; p. 99.
Fitch, Charles L., New York, N. Y. Hair-curler. No. 1,338,687; May 4; v. 274; p. 7.
Fite, Cephas V., and C. C. Coddington, Charlotte, N. C. Internal-combustion engine. No. 1,339,187; May 4; v. 274; p. 99.
Fleisher, Walter L. (See Lissauer, A. W., Fleisher, and Keyes.)
Fogg, Newell T., Melrose, Mass. Belt. No. 1,338,859; May 4; v. 274; p. 39.
Fogg, Newell T., Melrose, Mass. Hockey-stick. No. 1,338,860; May 4; v. 274; p. 39.
Ford, Silas M., St. Paul, Minn. Manufacturing prepared roofing. No. 1,339,327; May 4; v. 274; p. 125.
Fowler, Charles, Watseka, Ill. Deflector. No. 1,338,824; May 4; v. 274; p. 32.
Foxboro Company, The. (See Bristol, Edgar H., assignor.)
Frame, Robert N., Buffalo, N. Y. Bookmarker. No. 1,338,861; May 4; v. 274; p. 39.
Frank, Harry J. L. and L. H., assignors to Mutual Electric & Machine Company, Detroit, Mich. Starting-switch for motors. No. 1,338,825; May 4; v. 274; p. 32.
Frank, Leon H. (See Frank, Harry J. L. and L. H.)
Frecska, Julius, assignor of one-half to Z. Frecska, Amsterdam, Ohio. Aerial torpedo. No. 1,339,188; May 4; v. 274; p. 100.
Frecska, Zigmond. (See Frecska, Julius and Z.)
Freeman, Albert M. (See Eisner, M., and Freeman.)
Freije, Alexander T. (See Cook, T. E., and Freije.)
Frensdorf, Herman R., Gibbs City, Mich. Fishing-tackle. No. 1,339,189; May 4; v. 274; p. 100.
Friedline, Frederick I., Kentland, Ind. Corn-picker. No. 1,338,723; May 4; v. 274; p. 14.
Fries, Edward A. (See Randall, L. L., and Fries.)
Frissell, Frank H. (See Krenz, Rudolph, assignor.)
Fuller, George F. Worcester, Mass. Method and apparatus for controlling furnace temperature. No. 1,339,190; May 4; v. 274; p. 100.
Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,339,191; May 4; v. 274; p. 100.
Fuller, Louis F., Girard, Kans. Automobile attachment. No. 1,338,915; May 4; v. 274; p. 49.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Humidifying device. No. 1,338,916; May 4; v. 274; p. 49.
Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Reverse-phase relay for use in connection with polyphase alternating-current circuits. No. 1,339,192; May 4; v. 274; p. 100.
Garlock, John. (See Kinney, Thaddeus, assignor.)
Garst, Charles M., Independence, Mo. Paint-bucket hanger. No. 1,339,025; May 4; v. 274; p. 69.
Gehrke, Robert H., Libby, Mont. Press. No. 1,339,193; May 4; v. 274; p. 100.
Gelke, Henry, Brooklyn, N. Y. Lining for refrigerators. No. 1,339,328; May 4; v. 274; p. 125.
George, Harry F., Chicago, Ill. Steering-gear lock for automobiles. No. 1,339,329; May 4; v. 274; p. 125.
Gledhill, Arthur H., Halifax, England. Apparatus for releasing bodies from aircraft. No. 1,338,724; May 4; v. 274; p. 14.
Glenn, James H. (See Collins, E. M., and Glenn.)
Goelkel, Rinaldo A., New York, N. Y. Eyeglass case and cleaning device. No. 1,339,330; May 4; v. 274; p. 125.
Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic valve. No. 1,339,057; May 4; v. 274; p. 76.
Goldberg, Nathan E., New York, N. Y. Deposit-slip. No. 1,339,331; May 4; v. 274; p. 125.
Goldschmidt, Hans, and K. Müller, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Zinc alloy. No. 1,338,826; May 4; v. 274; p. 33.
Good, Samuel S., Jenkintown, Pa. Sanitary hen's nest. No. 1,338,725; May 4; v. 274; p. 14.
Goodfellow, Willard J., Bentley Springs, Md. Making cigar-wrappers. No. 1,338,827; May 4; v. 274; p. 33.
Gordon, Henry L. (See Brunelle, Arthur, assignor.)
Gorr, Wallace H., Milwaukee, Wis. Lock-nut. No. 1,338,862; May 4; v. 274; p. 39.
Goudie, John N., Hunters Quay, Scotland. Luffing mechanism for jib-cranes. No. 1,338,726; May 4; v. 274; p. 14.
Graaff, Clemens, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cartridge for chemical fire-extinguishers. No. 1,338,828; May 4; v. 274; p. 33.
Graef, Forrest J. (See Skerl, F., and Graef.)
Gainer, Frank J. (See Holland, W. W., and Gainer.)
Grammich, Frank, Brooklyn, N. Y. Holder for disk records. No. 1,339,194; May 4; v. 274; p. 101.
Granville, R. Gordon. (See Jarman, Alfred R., assignor.)
Granzow, Carl A. and H. M., Dayton, Ohio. Power-transmission mechanism. No. 1,338,767; May 4; v. 274; p. 22.
Granzow, Henry M. (See Granzow, Carl A. and H. M.)
Green Engineering Company. (See Livensparger, David A., assignor.)
Green, Henry M., Kansas City, Mo. Sand-screen for pumps. No. 1,338,829; May 4; v. 274; p. 33.
Greene, J. A. (See Willis, Joseph H., assignor.)
Greenly, Arthur J., London, England. Power control for aeronautical machines and the like. No. 1,339,332; May 4; v. 274; p. 126.
Gretencord, Edward J., Ottawa, Ill. Sheller-drag. No. 1,338,727; May 4; v. 274; p. 15.
Griswold, Williamson D., Burlington, Iowa. Automatic stop for phonographs. No. 1,339,058; May 4; v. 274; p. 76.
Grob, Henry, Detroit, Mich. Cooking utensil. No. 1,338,830; May 4; v. 274; p. 33.
Grochmal, Jan, Chicopee, Mass. Alcohol-stove. No. 1,339,059; May 4; v. 274; p. 77.
Grover, William H., Bay Shore, N. Y. Drip device. No. 1,339,195; May 4; v. 274; p. 101.
Guardian Trust and Savings Bank of Toledo, The. (See Lott, Clyde R., assignor.)
Gunn, Thomas M., New London, Conn., assignor to Electric Boat Company. Depth-gage. No. 1,338,981; May 4; v. 274; p. 61.
Haggin Estate, Inc. (See Kendall, Edward D., assignor.)
Hall, Edward, Laurium, Mich. Conduit-cleaner. No. 1,338,917; May 4; v. 274; p. 49.
Hall, Rupert E., Chicago, Ill. Dental articulator. No. 1,338,918; May 4; v. 274; p. 49.
Halstead, Robert E., Los Angeles, Calif. Violin-tailpiece. No. 1,339,196; May 4; v. 274; p. 101.
Hamilton, Asbury, Brooklyn, N. Y. Mop or brush. No. 1,339,026; May 4; v. 274; p. 70.
Hammerstein, Emma S., executrix. (See Hammerstein, O.)
Hammerstein's, Oscar, Tobacco Stripping Machine Co. Inc. (See Hammerstein, Oscar, assignor.)
Hammerstein, Oscar, deceased, New York, N. Y.; E. S. Hammerstein, executrix, assignor to Oscar Hammerstein's Tobacco Stripping Machine Co., Inc. Process and apparatus for stripping tobacco-leaf. No. 1,338,768; May 4; v. 274; p. 22.
Handlan, Alexander H., Jr., St. Louis, Mo. Railway-signal lamp. No. 1,338,769; May 4; v. 274; p. 23.
Handshy, Charles F., and W. P. Potter, Springfield, Ill. Shipping-ticket. No. 1,338,770; May 4; v. 274; p. 23.
Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Feeding device. No. 1,339,060; May 4; v. 274; p. 77.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cylindrical grinding-machine. No. 1,339,027; May 4; v. 274; p. 70.

Hanson, Earl C. (See Carlson, W. L., and Hanson.)
Harbeck, Jervis R., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can or container. No. 1,338,688; May 4; v. 274; p. 7.
Harrop, Carl B., Columbus, Ohio. Method and apparatus for burning clay ware. No. 1,338,771; May 4; v. 274; p. 23.
Hart, Morris C., Moville, Iowa. Automobile-tire chain. No. 1,338,772; May 4; v. 274; p. 23.
Hartshorn, Carr. (See Blackledge, John T., assignor.)
Hawkins, Alda F., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex. Battery-plate and terminal connection. No. 1,339,061; May 4; v. 274; p. 77.
Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. No. 1,338,728; May 4; v. 274; p. 15.
Haydenville Company, The. (See Blair, Peter W., assignor.)
Hayes, Albert, New York, N. Y., assignor to A. F. Ray, Woburn, Mass. Composite motor-fuel. No. 1,338,982; May 4; v. 274; p. 61.
Hayes, Albert, New York, N. Y., assignor to A. F. Ray, Woburn, Mass. Distilling. No. 1,338,983; May 4; v. 274; p. 61.
Hearn, John F. (See Reynolds, J. N., and Hearn.)
Hedström, Herman O., Djursholm, Sweden. Producing compounds of radium. No. 1,338,831; May 4; v. 274; p. 33.
Hein, Paul P., New York, N. Y. Extension-base lamp-bulb. No. 1,339,333; May 4; v. 274; p. 126.
Heiser, Joseph B., Williamsport, Pa. Self-locking paper carton. No. 1,339,334; May 4; v. 274; p. 126.
Heienbolt, George S, Middleport, assignor to The Rex Company, Rochester, N. Y. Sorting apparatus. No. 1,338,729; May 4; v. 274; p. 15.
Hemingway, Horace B., assignor to Winchester Repeating Arms Co., New Haven, Conn. Two-part self-locking rivet. No. 1,339,197; May 4; v. 274; p. 101.
Hemingway, Horace B., assignor to Winchester Repeating Arms Co., New Haven, Conn. Two-part self-locking rivet for tool-handles. No. 1,339,198; May 4; v. 274; p. 101.
Hendricks, Walter, L., Aurora, Ill. Tractor. No. 1,338,919; May 4; v. 274; p. 50.
Hennicke, Charles A., Cleveland, Ohio. Coupling device or splice for wagon or trailer tongues. No. 1,339,335; May 4; v. 274; p. 126.
Henry, George R., Denver, Colo. Flying-machine. No. 1,339,336; May 4; v. 274; p. 126.
Hercules Powder Company. (See Vanderkleed, Charles E., assignor.)
Hetherington, George, Philadelphia, Pa. Sound-box for talking-machines. No. 1,339,337; May 4; v. 274; p. 127.
Hickok, Henry N., Rochester, N. Y. Fruit-harvester. No. 1,339,338; May 4; v. 274; p. 127.
High, John E., Great Falls, Mont. Match-scratcher. No. 1,338,920; May 4; v. 274; p. 50.
Hill, Guy, Washington, D. C. Combined wave-changer and wave-meter. No. 1,338,984; May 4; v. 274; p. 61.
Hill, James F., Salem, Ohio. Combination spear and cutter. No. 1,338,773; May 4; v. 274; p. 23.
Hitchner, Joseph C., Philadelphia, Pa. Repeating attachment for talking-machines. No. 1,339,199; May 4; v. 274; p. 102.
Hitner, Harry F., Creighton, Pa., and T. E. Oakes, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company. Device for capping off glass cylinders. No. 1,339,200; May 4; v. 274; p. 102.
Hodge, Thomas D., Duluth, Minn. Roll-cooling means. No. 1,339,108; May 4; v. 274; p. 86.
Hoe, R., and Co. (See Busk, Anthony S., assignor.)
Hoffman, Peter A., Hastings, Minn. Folding box. No. 1,339,339; May 4; v. 274; p. 127.
Holland, Robert B., Yakima, Wash. Folding automobile camp-table. No. 1,339,028; May 4; v. 274; p. 70.
Holland, William W., and F. J. Gainer, Woodriver, Ill. Hand-hole cover. No. 1,339,340; May 4; v. 274; p. 127.
Hollick, Walter J., Manchester, England. Grabs, lifting-dogs, and like lifting and lowering apparatus. No. 1,339,341; May 4; v. 274; p. 127.
Holzapfel, Albert C., and P. Walther, New York, N. Y. Composition for coating iron, steel, and wood. No. 1,338,921; May 4; v. 274; p. 50.
Hopwood, John M. (See Brown, F. H., and Hopwood.)
Hopwood, John M. (See Brown, Francis H., assignor.)
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,923; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,924; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,925; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,926; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,927; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Regulation and apparatus therefor. No. 1,338,928; May 4; v. 274, p. 51.
Hopwood, John M., Dormont, Pa. Regulating mechanism. No. 1,338,929; May 4; v. 274; p. 51.
Hopwood, John M., Pittsburgh, Pa. Regulating combustion-furnaces. No. 1,338,922; May 4; v. 274; p. 50.
Horton, Aaron, Detroit, Mich. Washboard. No. 1,338,930; May 4; v. 274; p. 52.
Hubbard, Morris V., San Jose, Calif. Stretcher. No. 1,338,774; May 4; v. 274; p. 24.
Hubbell, Henry S., Ashburnham, Mass. Chuck. No. 1,338,775; May 4; v. 274; p. 24.
Hughes, Alexander, assignor to H. Hughes and Son, Limited, London, England. Sextant. No. 1,339,342; May 4; v. 274; p. 128.
Hughes, Henry, and Son. (See Hughes, Alexander, assignor.)
Hulett, Frank A., South Londonderry, Vt. Marble-game board. No. 1,339,343; May 4; v. 274; p. 128.
Huntington, Robert, Rosebank, N. Y. Spherical triangle calculator. No. 1,338,730; May 4; v. 274; p. 15.
Hurxthal, Alpheus O., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Rotary driers. No. 1,339,260; May 4; v. 274; p. 112.
Huston, Charles L., Coatesville, Pa. Double-head milling-machine. No. 1,339,029; May 4; v. 274; p. 70.
Hutchins Car Roofing Company. (See Hawksworth, D. W., assignor.)
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Aluminous composition and making the same. No. 1,339,344; May 4; v. 274; p. 128.
Hutchinson, Albert A., Winchester, Mass. Hide-working machine. No. 1,339,201; May 4; v. 274; p. 102.
Hutchinson, Warren B., Newark, N. J., assignor of one-half to A. Blackburne, New York, N. Y. Drier. No. 1,338,731; May 4; v. 274; p. 15.
Hyle, Jacob A., Philadelphia, Pa., assignor to Tri-City Steele Company, St. Louis, Mo. Metallic railway-crosstie. No. 1,339,345; May 4; v. 274; p. 128.
Hymans, Charles, Cambridge, England. Range-finder or telemeter. No. 1,338,985; May 4; v. 274; p. 62.
Icy-Hot Bottle Company, The. (See Lindahl, Erick P., assignor.)
Illinois Pen Company. (See Kritikson, John.)
Independent Button Fastener Machine Co. (See Snelerson, Samuel L., assignor.)
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll, Robert H. & Bros. (See Maloney, William T., assignor.)
Ira Co. Fabrique Suisse d' Articles en bois, Schweizerische Holzwarenfabrik. (See Baumgartner, Arthur, assignor.)
Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machines. No. 1,339,346; May 4; v. 274; p. 128.
Irrgang, William F., assignor to The Warren & Irrgang Company, Springfield, Mass. Truck. No. 1,339,109; May 4; v. 274; p. 86.
Jackson, Harry, Brooklyn, N. Y. Pump. No. 1,339,347; May 4; v. 274; p. 128.
Jackson, Thomas C. (See Rodgers, R. E., and Jackson.)
Janicki, Andrew, Milwaukee, Wis. Sweat-pad for horse-collars. No. 1,338,931; May 4; v. 274; p. 52.
Jaques, Fernando O., Sr., Providence, assignor to The Central Tool Company, Cranston, R. I. Micrometer-gage. No. 1,338,932; May 4; v. 274; p. 52.
Jarman, Alfred R., Philadelphia, Pa., assignor of one-half to R. G. Granville, New York, N. Y. Oscillating valve. No. 1,339,110; May 4; v. 274; p. 86.
Jennings, Victor H., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Receptacle or pocket and making same. No. 1,338,776; May 4; v. 274; p. 24.
Jessup, George C., Camden, N. J. Power transmission. No. 1,338,832; May 4; v. 274; p. 34.
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Reversing mechanism for fluid-engines. No. 1,338,732; May 4; v. 274; p. 16.
John, Lillian, New York, N. Y. Hose-supporter. No. 1,338,733; May 4; v. 274; p. 16.
Johnson, Fred V., Berkeley, Calif. Transmission. No. 1,338,777; May 4; v. 274; p. 24.
Johnson, Raymond D., Sea Gate, Coney Island, N. Y. Tank and forming the same. No. 1,339,062; May 4; v. 274; p. 77.
Johnson, Woolsey M., Hartford, Conn. Mineral-manure process. No. 1,338,734; May 4; v. 274; p. 16.
Jolley, Thomas M., Des Moines, Iowa. Music-leaf turner. No. 1,339,261; May 4; v. 274; p. 113.
Jones, Clifford C., Washington, D. C. Fire-extinguishing apparatus. No. 1,338,778; May 4; v. 274; p. 24.
Jones, Elmer M. (See Bennett, R. W., and Jones.)
Jones, Harry B., *et al* (See Salsman, James E., assignor.)
Jones, Harry H., Segundo, assignor of one-half to A. L. Dain, Trinidad, Colo. Flue-cleaning machine. No. 1,339,348; May 4; v. 274; p. 129.
Jones, Johnny J. (See Stock, John J., assignor.)
Jordan, Fred A. (See Swart, W. G., Jordan, Davis, and Counselman.)
Kaaten, Einar, assignor to A/S Arendal Smelteverk, Eydehavn, near Arendal, Norway. Electrode-holder. No. 1,339,111; May 4; v. 274; p. 87.
Kade, Charles F., assignor to C. F. Kade, Jr., Plymouth, Wis. Piano-bench. No. 1,339,262; May 4; v. 274; p. 113.
Kade, Charles F., Jr. (See Kade, Charles F., assignor.)
Kahler, Venice A., Pasadena, Calif. Half-spray sprinkler. No. 1,339,349; May 4; v. 274; p. 129.

Kansas City Structural Steel Company, The. (See Meyers, Alfred M., assignor.)
Kaufman, Samuel E., Beaver Dam, Wis. Portable adjusting-table for use of chiropractors. No. 1,338,735; May 4; v. 274; p. 16.
Kay, Arethusa, *et al.* (See Kay, Samuel P., assignor.)
Kay, Samuel P., Rochester, assignor of one-half to A. K. Rownd and one-half to A. Kay, Rochester, N. Y. Pencil-holder. No. 1,338,933; May 4; v. 274; p. 52.
Kelley, Marven, Luling, Tex. Signaling-boiler. No. 1,339,350; May 4; v. 274; p. 129.
Kellogg, Lewis L., Denver, Colo. Non-skid device. No. 1,338,934; May 4; v. 274; p. 52.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,339,030; May 4; v. 274; p. 70.
Kemble, William I., San Francisco, Calif. Lamp-base. No. 1,339,351; May 4; v. 274; p. 129.
Kendall, Edward D., Elizabeth, N. J., assignor of one-half to Haggin Estate, Inc. Composition of matter for use in welding steels and iron. No. 1,338,736; May 4; v. 274; p. 16.
Kennard, William W., Sewickley, Pa. Dirigible headlight. No. 1,339,352; May 4; v. 274; p. 129.
Kennedy, John S., Philadelphia, Pa. Gas-washing apparatus. No. 1,339,112; May 4; v. 274; p. 87.
Kent, William J., Brooklyn, N. Y. assignor to The Mechanical Rubber Company. Hoof-protector. No. 1,338,986; May 4; v. 274; p. 62.
Kernen, Emil, Weiner, Ark. Manure-loader. No. 1,339,263; May 4; v. 274; p. 113.
Kerr, John H., Fort Mills, Corregidor, Philippine Islands. Combined line-reel and marker or chalker. No. 1,338,935; May 4; v. 274; 53.
Kessel, Frank, assignor to The Mansfield Lock Washer Company, Mansfield, Ohio. Lock-washer-making machine. No. 1,338,737; May 4; v. 274; p. 16.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical generation and control. No. 1,338,987; May 4; v. 274; p. 62.
Keyes, Robert E. (See Lissauer, A. W., Fleisher, and Keyes.)
Kimber, Walter E., London, England. Drapery-curtain-pole fixture. No. 1,339,353; May 4; v. 274; p. 130.
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kinney, Thaddeus, assignor of one-half to J. Garlock, Milwaukee, Wis. Nut. No. 1,339,113; May 4; v. 274; p. 87.
Kinoshita, Yokichi, Boston, Mass. Thumb-tack. No. 1,338,988; May 4; v. 274; p. 62.
Klocke, William, New York, assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y. Forging. No. 1,338,779; May 4; v. 274; p. 24.
Knapp, John, Holland, Mich. Molding-machine. No. 1,339,354; May 4; v. 274; p. 130.
Kochendorfer, Frederic S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding, polishing, and buffing machine equipment. No. 1,339,202; May 4; v. 274; p. 102.
Koehring Machine Company. (See Wetmore, Charles P., assignor.)
Kohlman, Dirk L., Dordrecht, Netherlands. Collapsible baby and wheeling chair and carriage. No. 1,339,355; May 4; v. 274; p. 130.
Kometter, John, Jr., Milwaukee, Wis. Autoscope. No. 1,338,738; May 4; v. 274; p. 17.
Kondolf, George V., Rochester, N. Y. Slab or brick for driveways. No. 1,339,356; May 4; v. 274; p. 130.
Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Ratchet-jack. No. 1,339,377; May 4; v. 274; p. 134.
Kopriva, Alvis F. (See Kopriva, Charles J., assignor.)
Kopriva, Charles J., New York, assignor to A. F. Kopriva, Stony Brook, N. Y. Ax. No. 1,339,357; May 4; v. 274; p. 130.
Kornsweet, Samiel A., Los Angeles, Calif. Sanitary ice-cream-cone holder. No. 1,338,833; May 4; v. 274; p. 34.
Krée, Paul M., and F. Dauteuil, New York, N. Y. Automatic stop and start for phonographs. No. 1,339,203; May 4; v. 274; p. 102.
Krenz, Rudolph, assignor of one-half to F. H. Frissell, Middletown, Conn. Machine for loading machine-gun cartridge-belts. No. 1,339,204; May 4; v. 274; p. 103.
Krieg, Theodore F., Detroit, Mich. Fuel-oil burner. No. 1,339,358; May 4; v. 274; p. 131.
Kritikson, John, assignor to Illinois Pen Company, Chicago, Ill. Penholder-clip. No. 1,339,359; v. 274; p. 131.
Kuever, Rudolph A. (See Dunlap, F. L., and Kuever.)
Kundtz, Theodor, Lakewood, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Cable-guide for drophead-sewing-machine cabinets. No. 1,338,834; May 4; v. 274; p. 34.
Kundtz, Theodor, Company, The. (See Kundtz, Theodor, assignor.)
Kunkel, Edward F. (See Schranck, E. V., and Kunkel.)
Kupfer, Samuel, New York, N. Y. Hand-guard for printing-presses. No. 1,338,780; May 4; v. 274; p. 25.
Laabs, Max A., assignor to American Optical Company, Southbridge, Mass. Testing process. No. 1,339,031; May 4; v. 274; p. 71.
Lachman, Maurice, New York, N. Y., assignor, by meane assignments, to Bethlehem Steel Company, Bethlehem, Pa. Wheel. No. 1,338,936; May 4; v. 274; p. 53.
Lake, John L., and F. D. McMahon, Cleveland, Ohio. Tractor. No. 1,338,835; May 4; v. 274; p. 34.
Landenberger, Charles H., Philadelphia, Pa. Brooder. No. 1,339,264; May 4; v. 274; p. 113.
Lane, Frank A., Mendon, Mo. Pump-coupling. No. 1,338,739; May 4; v. 274; p. 17.
Lanfear, Harold, Amberg Wis. Comb-cleaner. No. 1,338,937; May 4; v. 274; p. 53.
Lang, George L., assignor to Splitdorf Electrical Company, Newark, N. J. Combined distributer and connector. No. 1,338,989; May 4; v. 274; p. 62.
Langdon, Jesse D., Waterville, Wash. Auxiliary device for gas-engines. No. 1,338,938; May 4; v. 274; p. 53.
Langelier, Antoine J. (See Brandt, C. A. W., and Langelier.)
Larner, Chester W., Philadelphia, Pa. Valve. No. 1,339,114; May 4; v. 274; p. 87.
Laycock, Arthur M., Kingston, Pa. Roller-bearing. No. 1,338,939; May 4; v. 274; p. 53.
Layman, Kent E., Cleveland, Ohio. Self-filling grease-gun. No. 1,338,743; May 4; v. 274; p. 18.
Lenzi, Dwight, Idaho Falls, Idaho. Apparatus for drying food. No. 1,339,032; May 4; v. 274; p. 71.
Leonard, Elof R., Woodcliff, N. J. Fireproof door. No. 1,339,205; May 4; v. 274; p. 103.
Leonard, Elof R., Woodcliff, N. J. Fireproof partition. No. 1,339,360; May 4; v. 274; p. 131.
Levitan, Nathan A., New York, N. Y. Toilet article. No. 1,339,265; May 4; v. 274; p. 113.
Levy, Jennie, Philadelphia, Pa. Telephone-receiver holder No. 1,338,781; May 4; v. 274; p. 25.
Levy, Morris, Denver, Colo. Spring-wheel. No. 1,339,361; May 4; v. 274; p. 131.
Lewis, John D. P., St. Louis, Mo. Atomizing-primer for internal-combustion engines. No. 1,338,740; May 4; v. 274; p. 17.
L'heureux, Joseph E., Manville, R. I. Sash-lock. No. 1,339,362; May 4; v. 274; p. 131.
Libby, Albion D. T., East Orange, and E. Borger, assignors to Splitdorf Electrical Company, Newark, N. J. Combined generator and timer-distributer bearing-head. No. 1,338,990; May 4; v. 274; p. 63.
Liebers, Earnest M., Minden, Nebr. Feeder for grain-separators. No. 1,339,206; May 4; v. 274; p. 103.
Linbarger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Graphite articles and making the same. No. 1,339,266; May 4; v. 274; p. 114.
Lindahl, Erick P., Pleasant Ridge, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Coating apparatus and coating. No. 1,338,782; May 4; v. 274; p. 25.
Lindahl, Erick P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Coating apparatus. No. 1,338,940; May 4; v. 274; p. 53.
Lindahl, Erick P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Method of and apparatus for manufacturing glassware. No. 1,338,941; May 4; v. 274; p. 54.
Lindemann, A. J., & Hoverson Company. (See Lindemann, Albert J. and W. C., assignors.)
Lindemann, A. J., & Hoverson Company. (See Lindemann, Walter C., assignor.)
Lindemann, Albert J. and W. C., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Hydrocarbon-burner. No. 1,339,207; May 4; v. 274; p. 103.
Lindemann, Walter C. (See Lindemann, Albert J. and W. C.)
Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Oil heating-stove. No. 1,339,208; May 4; v. 274; p. 103.
Line Carrying Buoy Company. (See Crouch, William S., assignor.)
Linsley, Raymond B. (See Thompson, Harry E., Linsley, and Rix.)
Lipshitz, Benjamin, Brooklyn, N. Y. Combination bedstead and wardrobe. No. 1,338,741; May 4; v. 274; p. 17.
Lissauer, Adolph W., W. L. Fleisher, and R. E. Keyes, assignors to American Drying Processes, Inc., New York, N. Y. Desiccation. No. 1,339,115; May 4; v. 274; p. 87.
Livensparger, Daniel A., Battle Creek, Mich., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,339,209; May 4; v. 274; p. 104.
Livingston, Stanley D., Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated. Electric-switch lock. No. 1,339,267; May 4; v. 274; p. 114.
Lloid, Benjamin, Corvallis, Idaho. Truss. No. 1,338,991; May 4; v. 274; p. 63.
Lloyd, Marshall B., Menominee, Mich. Method and means for producing woven reed articles. No. 1,339,063; May 4; v. 274; p. 77.
Lloyd, Marshall B., Menominee, Mich. Apparatus for producing woven reed articles. No. 1,339,064; May 4; v. 274; p. 78.
Lobar, Abraham J., assignor to Joseph E. Sloe, New York, N. Y. Garment-hanger. No. 1,338,783; May 4; v. 274; p. 25.
Lockwood, Nelson A., Ogden, Utah. Knife-setting appliance. No. 1,339,210; May 4; v. 274; p. 104.
Locomotive Superheater Company. (See Brandt, C. A. W., and Langelier, assignors.)
Locomotive Superheater Company. (See Broido, Benjamin, assignor.)

Lofton, Herbert M., Chattanooga, Tenn. Lathe. No. 1,338,742; May 4; v. 274; p. 17.
Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, Toledo, Ohio. Mechanism for transferring ware to leers. No. 1,338,992; May 4; v. 274; p. 63.
Lowry, Emmet J., Dubuque, Iowa. Convertible car. No. 1,338,942; May 4; v. 274; p. 54.
Lucas, Blaine, Harlowton, Mont. Stove attachment. No. 1,339,268; May 4; v. 274; p. 114.
Luckett, Philip A., Philadelphia, Pa. Undergarment. No. 1,339,116; May 4; v. 274; p. 88.
Lundin, Karl G., assignor of one-half to J. C. Morris, Detroit, Mich. Motor-vehicle construction. No. 1,339,269; May 4; v. 274; p. 114.
Luttrell, Edward J., New York, N. Y. Plastic-block mold. No. 1,339,270; May 4; v. 274; p. 114.
McCallister, Thomas F., Prineville, Oreg. Motor-tractor. No. 1,339,271; May 4; v. 274; p. 114.
McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Brake for fire-shutters. No. 1,339,380; May 4; v. 274; p. 135.
McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
McConway & Torley Company, The. (See Kelso, William, assignor.)
McDermott, Keen J., Cedar, Colo. Ditch-excavating machine. No. 1,338,784; May 4; v. 274; p. 25.
McEwen, Willard M. (See Olson, Gustaf, assignor.)
McElvilla, Walter H., Philadelphia, Pa. Shaving-brush. No. 1,339,065; May 4; v. 274; p. 78.
McEwen, Norman S., Nashville, Tenn. Timing device for cameras. No. 1,339,117; May 4; v. 274; p. 88.
McGee, Richard T., Wheeling, W. Va. Die-holder. No. 1,339,363; May 4; v. 274; p. 132.
McGlehan, Patrick H., New York, N. Y. Machine for printing carpets, floor-rugs, &c. No. 1,338,785; May 4; v. 274; p. 25.
McIntosh, Frank E., assignor to Cone Carrier Corporation, Burlington, Vt. Ice-cream-cone carrier. No. 1,338,744; May 4; v. 274; p. 18.
McKerahan, George, Avonmore, Pa. Oxygen concentrator. No. 1,339,211; May 4; v. 274; p. 104.
McMahon, Francis D. (See Lake, J. L., and McMahon.)
McManus, Charles E., New York, N. Y. Bottle-closure. No. 1,339,066; May 4; v. 274; p. 78.
McNeel, Grant, North Platte, Nebr. Decarbonizer attachment for engines. No. 1,338,993; May 4; v. 274; p. 63.
MacEwan, Robert S., Troy, N. Y. Reamer-frame. No. 1,339,118; May 4; v. 274; p. 88.
Mackenrot, Percy W., Vancouver, British Columbia, Canada. Salting-machine. No. 1,339,212; May 4; v. 274; p. 104.
Mackenzie, Alexander S., assignor to Texas Oil Well Pump Company, Houston, Tex. Pump-plunger. No. 1,338,943; May 4; v. 274; p. 54.
Majewski, Frank, Chicago, Ill. Dancing-figure toy. No. 1,338,944; May 4; v. 274; p. 54.
Maloney, William T., Waterbury, Conn., assignor to Robert H. Ingersoll & Bros., New York, N. Y. Dial and dial-fastener. No. 1,338,745; May 4; v. 274; p. 18.
Manlet, Peter L., St. Paul, Minn. Automatic stop for elevators. (Reissue.) No. 14,853; May 4; v. 274; p. 135.
Manley, Ralph J., Iowa City, Iowa. Lock for shift-levers. No. 1,338,945; May 4; v. 274; p. 54.
Mann, Charles B., *et al.* (See Shaffer, Richard M., assignor.)
Mann, Charles B., Jr. (See Shaffer, Richard M., assignor.)
Manning, Michael, Newark, N. J. Pocket tool-holder. No. 1,339,213; May 4; v. 274; p. 104.
Mansfield Lock Washer Company, The. (See Kessel, Frank, assignor.)
Marek, Frank, Los Angeles, Calif. Cornucopia-dispenser. No. 1,339,067; May 4; v. 274; p. 78.
Martin, George W., Philadelphia, N. Y. Chair. No. 1,339,068; May 4; v. 274; p. 78.
Martin, James P., Lancaster, Pa., assignor to R. C. Penfield, Chicago, Ill. Pipe-rack drier-car. No. 1,339,119; May 4; v. 274; p. 88.
Martin, John M., Dallas, Tex. Roofing-tile. No. 1,339,033; May 4; v. 274; p. 71.
Massoll, Curtis A., assignor of one-half to J. A. Whittaker, Detroit, Mich. Latch. No. 1,338,689; May 4; v. 274; p. 7.
Mathias, Berton M., Minneapolis, Minn. Rod-splicing clamp. No. 1,338,746; May 4; v. 274; p. 18.
Mathy, Maurice, Liege, Belgium. Furnace for heating rods and the like. No. 1,339,034; May 4; v. 274; p. 71.
Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Centrifugal apparatus with planetary movement. No. 1,339,272; May 4; v. 274; p. 114.
Maxwell, George S., assignor to A. Ralph Serven, trustee, Washington, D. C. Internal-combustion engine. No. 1,339,035; May 4; v. 274; p. 71.
Mechanical Rubber Company, The. (See Kent, William J., assignor.)
Mechanics Machine Company. (See Faust, L., and Anderson, assignors.)
Mecky, A., Company. (See Papini, Antonio, assignor.)
Metallograph Corporation, The. (See Erdoes, J., and Sas, assignors.)
Meyers, Alfred M., Merriam, Kans., assignor to The Kansas City Structural Steel Company, Kansas City, Mo. Bending-machine. No. 1,338,946; May 4; v. 274; p. 55.
Middleton, John R. (See Constantinesco, G., and Middleton.)
Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
Miles, John H., Trinity Center, Calif. Thawing ground. No. 1,339,036; May 4; v. 274; p. 72.
Miley, Benjamin, walla Walla, Wash. Nut-lock. No. 1,339,120; May 4; v. 274; p. 88.
Miller, George W., Rochester, N. Y. Wooden-sole working-shoe. No. 1,338,947; May 4; v. 274; p. 55.
Miller, John G., Waterloo, Iowa. Machine for forming postholes. No. 1,338,948; May 4; v. 274; p. 55.
Miller, Julius, Los Angeles, Calif. Safety-drive for meat-cutters. No. 1,339,273; May 4; v. 274; p. 115.
Miller, Samuel W., Rochester, N. Y. Piping system. No. 1,338,994; May 4; v. 274; p. 63.
Mills Woven Cartridge Belt Company. (See Jennings, Victor H., assignor.)
Mills Woven Cartridge Belt Company. (See Spalding, George W., assignor.)
Mills Woven Cartridge Belt Company. (See Sullivan, Cecelia L., assignor.)
Miner, William H. (See Bock, William A., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Miner, William H. (See Strid, Sven J., assignor.)
Minnesota Cement Products Company. (See Perl, E. G., and Boss, assignors.)
Mix, Melville W., Mishawaka, Ind. Airplane or analogous strut member. No. 1,338,836; May 4; v. 274; p. 34.
Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,339,214; May 4; v. 274; p. 105.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,339,121; May 4; v. 274; p. 89.
Mojonnier, Oliver W., Oak Park, Ill. Can-polishing machine. No. 1,338,949; May 4; v. 274; p. 55.
Montross, Frederick L., assignor of one-half to himself and one-half to H. A. Montross, Camden, N. J. Exhaust-gas heater for automobiles. No. 1,339,122; May 4; v. 274; p. 89.
Montross, Harry A. (See Montross, Frederick L., assignor.)
Moore, Charles B., Evanston, Ill. Rail-anchor. No. 1,339,123; May 4; v. 274; p. 89.
Moore, George, Joplin, Mo. Liquid-supply-control apparatus. No. 1,338,995; May 4; v. 274; p. 64.
Moore Steam Turbine Corporation. (See Spicer, Elmer D., assignor.)
Moorman, Thomas L., Farmville, Va. Battery-box. No. 1,338,690; May 4; v. 274; p. 8.
Morgan, Benjamin J., Des Moines, Iowa. Railway-frog. No. 1,338,786; May 4; v. 274; p. 26.
Moritz, John, Lebanon, Pa. Hair-lock coat-front. No. 1,339,274; May 4; v. 274; p. 115.
Morris, Harry, Haddonfield, N. J. Flame-protector. No. 1,339,215; May 4; v. 274; p. 105.
Morris, Joseph C. (See Lundin, Karl G., assignor.)
Morse, Lawrence H., and J. J. Tracy, Cleveland, Ohio; said Morse assignor to said Tracy. Windshield-cleaner. No. 1,339,216; May 4; v. 274; p. 105.
Morton, Walter S., Harrisburg, Pa. Motor-truck construction and drive. No. 1,339,124; May 4; v. 274; p. 89.
Morton, Walter S., Harrisburg, Pa. Steering mechanism for motor-trucks. No. 1,339,125; May 4; v. 274; p. 89.
Moskowitz, Louis. (See Cohon, Benjamin J., assignor.)
Motors Lock Company of America. (See Swyers, Brice P., assignor.)
Motte, Charles M., Paris, France. Tractor comprising driving and steering wheel. No. 1,338,837; May 4; v. 274; p. 34.
Mueller, Charles W., Jersey City, N. J. Fish and crab trap. No. 1,339,275; May 4; v. 274; p. 115.
Mulder, Thomas P., Kalamazoo, Mich. Tool for applying tips to laces. No. 1,339,217; May 4; v. 274; p. 105.
Müller, Karl. (See Goldschmidt, H., and Müller.)
Munters, Anders J. E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Strainer. No. 1,339,037; May 4; v. 274; p. 72.
Murphy Engineering Co., The. (See Murphy, Peter W., assignor.)
Murphy, Peter W., assignor to The Murphy Engineering Co., Detroit, Mich. Cam. No. 1,339,276; May 4; v. 274; p. 115.
Mutual Electric & Machine Company. (See Frank, Harry, J. L., and L. H., assignors.)
Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Tone-modulator for phonographs. No. 1,338,950; May 4; v. 274; p. 55.
Myers Phonograph Corporation. (See Myers, Frederick, assignor.)
Nadel, Abram R., Dorchester, Mass. Loose-leaf sketching-pad. No. 1,338,951; May 4; v. 274; p. 56.
Nathan, Frederic L., W. Rintoul, and F. Baker, deceased, Stevenston, Scotland; H. Baker, administrator, Eton, Windsor, England, assignors to Nobel's Explosives Company, Limited, Glasgow, Scotland. Gelatinized propellent explosive and preparing same. No. 1,338,691; May 4; v. 274; p. 8.
National Cash Register Company, The. (See Carroll, Fred M., assignor.)
National Cash Register Company, The. (See Skerl, F., and Graef, assignors.)
National Shorthand Machine Company. (See Ireland, Ward S., assignor.)

Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,338,692; May 4; v. 274; p. 8.

Neighbour, William W., Spartanburg, S. C. Shaft-bearing. No. 1,339,277; May 4; v. 274; p. 115.

Nelson, Harold, and J. Wedwick, Clifford, N. D. Dirigible headlight. No. 1,338,787; May 4; v. 274; p. 26.

Newcomb, Edward C., North Scituate, Mass. Carbureter. No. 1,339,218; May 4; v. 274; p. 105.

Nichols, Harold W., *et al.* (See Salsman, James E., assignor.)

Nicholls, Harry J., Minneapolis, Minn. Soap-making apparatus. No. 1,339,126; May 4; v. 274; p. 90.

Nicolétis, Minos, Paris, France. Apparatus for regulating the strength of electric currents for medical purposes. No. 1,338,952; May 4; v. 274; p. 56.

Niles, Harry F., Chicago, Ill., assignor of one-third to E. A. Schlick, Cook county, Ill. Valve. No. 1,338,838; May 4; v. 274; p. 35.

Niles-Bement-Pond Company. (See Boughen, Malachi F., assignor.)

Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)

Nobel's Explosives Company. (See Nathan F. L., Rintoul, and Baker, assignors.)

Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,863; May 4; v. 274; p. 39.

Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,864; May 4; v. 274; p. 39.

Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,865; May 4; v. 274; p. 40.

Norcross, Collen E., West Chester, Pa. Method of and apparatus for emulsification. No. 1,338,996; May 4; v. 274; p. 64.

Norcross, Walter E., Dorchester, assignor to L. C. Chase & Company, Boston, Mass. Radiator and hood cover for automobiles. No. 1,338,693; May 4; v. 274; p. 8.

Nordberg, Carl V., Butte, Mont. Clutch. No. 1,338,788; May 4; v. 274; p. 26.

Norman, Frederick D. (See Schwarzmann, W. E., and Norman.)

Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Manufacture of printing-plates. No. 1,339,127; May 4; v. 274; p. 90.

Nye, Mark D., Buffalo, N. Y. Automatic check-valve mechanism. No. 1,339,128; May 4; v. 274; p. 90.

Oakes, George C., Merced, Calif. Chiropractor's table. No. 1,339,038; May 4; v. 274; p. 72.

Oakes, Travis E. (See Hitner, H. F., and Oakes.)

Oathout, Arthur N., assignor to C. L. Van Doren, Inc., Gloversville, N. Y. Glove. No. 1,339,129; May 4; v. 274; p. 90.

Ober, John V., Ada, Minn. Coupling and operating device for tractor-harvesters. No. 1,339,278; May 4; v. 274; p. 116.

Odell, Robert R., Minneapolis, Minn. Artificial bait. No. 1,338,953; May 4; v. 274; p. 56.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,338,747; May 4; v. 274; p. 18.

Oebbecke, Ferdinand J., Philadelphia, Pa. Stage illusion effect. No. 1,339,279; May 4; v. 274; p. 116.

Ohio Suspender Company, The. (See Bear, John F., assignor.)

Oka, Charly, Santa Clara County, Calif. Fruit cutting and pitting machine. No. 1,339,364; May 4; v. 274; p. 132.

Oldfield, Robert A., Birmingham, England. Lamp. No. 1,338,954; May 4; v. 274; p. 56.

Olson, Gustaf, assignor of one-half to Willard M. McEwen, Chicago, Ill. Fluid-pump. No. 1,338,839; May 4; v. 274; p. 35.

Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)

Overaas, Nils, Tonsbergfjordens, Befæstninger, Norway. Apparatus for determining the elevation and distance of an aerial mark from a battery. No. 1,339,130; May 4; v. 274; p. 90.

Pack, Samuel B., Washington, D. C., assignor to Packmore Manufacturing Company. Portable cleaning-machines. No. 1,339,280; May 4; v. 274; p. 116.

Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Packmore Manufacturing Company. (See Pack, Samuel B., assignor.)

Paddack, Truman G., Wyoming, assignor to The Stearns and Foster Company, Lockland, Ohio. Upholstery-fold. No. 1,339,281; May 4; v. 274; p. 116.

Palmer, George B., New York, N. Y. Manufacture of colors. No. 1,339,219; May 4; v. 274; p. 106.

Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electrically-operated fluid-heater. No. 1,338,997; May 4; v. 274; p. 64.

Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,338,998; May 4; v. 274; p. 64.

Parks, G. M. Company, The. (See Thompson, A. W., and Comfort, assignors.)

Parr, Elmer O., Greenview, Ill. Heating-stove. No. 1,339,039; May 4; v. 274; p. 72.

Parrish, Vernon E., Cupertino, Calif. Machine for ridging land. No. 1,339,040; May 4; v. 274; p. 73.

Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England, said Cook and said Douglas assignors to said Parsons. Carbon-gland. No. 1,338,955; May 4; v. 274; p. 56.

Patrono, Frank, and N. Patrono, Mount Vernon, N. Y. Drying apparatus. No. 1,339,131; May 4; v. 274; p. 91.

Patrono, Nicola. (See Patrono, Frank, and N.)

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,338,866; May 4; v. 274; p. 40.

Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Rotating-screen filter. No. 1,338,999; May 4; v. 274; p. 64.

Peckham, Samuel C., Mexia, Texas. Peanut-roaster. No. 1,339,365; May 4; v. 274; p. 132.

Peebles, Thomas A., Pittsburgh, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Furnace. No. 1,338,694; May 4; v. 274; p. 8.

Peebles, Thomas A., assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion. No. 1,338,956; May 4; v. 274; p. 56.

Peebles, Thomas A., assignor to J. M. Hopwood, Pittsburgh, Pa. Method of and apparatus for regulating combustion. No. 1,339,000; May 4; v. 274; p. 65.

Pelton, Charles W., and J. P. Barbour, Livingston, Mont. Tire filler and tester. No. 1,339,041; May 4; v. 274; p. 73.

Pelnar, John E., Deerfield, Kans. Cutter for broom-corn, maize, and the like. No. 1,339,282; May 4; v. 274; p. 116.

Penfield, Raymond C. (See Martin, James P., assignor.)

Perey Manufacturing Company. (See Trubenbach, C. D. and Sanneman, assignors.)

Perkins, James A., Brooklyn, N. Y. Inner tube for tires. No. 1,339,283; May 4; v. 274; p. 116.

Perl, Elmer G., and L. C. Boss, assignors to Minnesota Cement Products Company, Minneapolis, Minn. Concrete lamp-standard. No. 1,339,220; May 4; v. 274; p. 106.

Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,338,957; May 4; v. 274; p. 57.

Petersen, Arnold J., Cedar Rapids, Iowa. Light-bowl hanger. No. 1,338,958; May 4; v. 274; p. 57.

Peterson, Christen J., Chicago, Ill. Motion-picture machine. No. 1,338,695; May 4; v. 274; p. 9.

Petrovic, Tony N., Pictou, Colo. Spring-wheel. No. 1,339,132; May 4; v. 274; p. 91.

Petry, Nicholas A., Philadelphia, Pa. Muffler cut-out. No. 1,339,284; May 4; v. 274; p. 117.

Philadelphia Textile Machinery Company, The. (See Hurxthal, Alpheus O., assignor.)

Phoenix Hardening Equipment Company, The. (See Radabaugh, Noah B., assignor.)

Pierson, Leonard F., Fredericksburg, Va. Game device. No. 1,339,285; May 4; v. 274; p. 117.

Pigache, Charles E. and P., Paris, France. Locking device for derailed trolley-arms. No. 1,339,221; May 4; v. 274; p. 106.

Pigache, Pierre. (See Pigache, Charles E. and P.)

Pittsburgh Plate Glass Company. (See Hitner, H. F., and Oakes, assignor.)

Pittsburgh Plate Glass Company. (See Rotheram, Thomas, assignor.)

Pittsburgh Plate Glass Company. (See Shrigluff, Harry G., assignor.)

Platten, William J., Green Bay, Wis. Concrete rail and track. No. 1,339,046; May 4; v. 274; p. 74.

Plummer, Emma A., Brooklyn, N. Y. Head-covering. No. 1,339,286; May 4; v. 274; p. 117.

Pneumatic Scale Corporation, Limited. (See Robinson, George A., assignor.)

Poston, Leon L., Council Bluffs, Iowa. Artificial tooth. No. 1,338,959; May 4; v. 274; p. 57.

Potter, Walter P. (See Handshy, C. F., and Potter.)

Povotzky, Phillip, Chicago, Ill. Carbureter. No. 1,338,960; May 4; v. 274; p. 57.

Power, Jeffrey J., assignor to Power, Stevens Fan Devices Company, Madison, Wis. Laundry-drier. No. 1,338,696; May 4; v. 274; p. 9.

Power, Stevens Fan Devices Company. (See Power, Jeffrey J., assignor.)

Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)

Preining, Adolf J., Detroit, Mich. Liquid-fuel torch. No. 1,338,840; May 4; v. 274; p. 35.

Pressed Bearing Company. (See Klocke, William, assignor.)

Prince, Clarence K., Westfield, Mass. Combined mold-pouring and weighting unit. No. 1,339,133; May 4; v. 274; p. 91.

Purcell, William F., Morristown, N. J. Safety device. No. 1,338,867; May 4; v. 274; p. 40.

Radabaugh, Noah B., assignor to The Phoenix Hardening Equipment Company, Cleveland, Ohio. Making carbonizing material. No. 1,338,841; May 4; v. 274; p. 35.

Radio Corporation of America. (See Weagant, Roy A., assignor.)

Radzinsky, Harry, New York, N. Y. Hair-curler. No. 1,338,748; May 4; v. 274; p. 19.

Rand, James H., North Tonawanda, N. Y. Card-index. No. 1,338,789; May 4; v. 274; p. 26.

Randall, James R., Bonnie, Ill. Combination hoe, extension-marker, and weeder. No. 1,339,222; May 4; v. 274; p. 106.

Randall, Lillian L., and E. A. Fries, Boston, Mass. Joint-assembling machine. No. 1,338,697; May 4; v. 274; p. 9.

Ratzburg, Victor P., Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 1,338,842; May 4; v. 274; p. 35.

Ratzburg, Victor P., Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 1,338,843; May 4; v. 274; p. 36.

Ray, Arthur F. (See Hayes, Albert, assignor.)

Read, Harry A. S., Andover, Mass. Driving-band. No. 1,339,287; May 4; v. 274; p. 117.

Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, Chicago, assignors to Redmanol Chemical Products Company, Chicago, Ill. Phenolic condensation product and manufacturing. No. 1,339,134; May 4; v. 274; p. 91.

Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)

Renaud, Eugène Lavergne dit, Montreal, Quebec, Canada. Card-holder for record systems and the like. No. 1,338,790; May 4; v. 274; p. 26.

Replogle, Daniel B., Berkeley, Calif. Vacuum-cleaner handle. No. 1,338,791; May 4; v. 274; p. 27.

Rex Company, The. (See Helenbolt, George S., assignor.)

Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Cross-bar switch. No. 1,339,001; May 4; v. 274; p. 65.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,339,002; May 4; v. 274; p. 65.

Rice, Joel A. (See Rice, Joel T., J. A., and R. A.)

Rice, Joel T., J. A., and R. A., New York, N. Y. Anti-friction-bearing. No. 1,338,868; May 4; v. 274; p. 40.

Rice, Royal A. (See Rice, Joel T., J. A., and R. A.)

Rice, William, New York, N. Y. Fireproof film-reel. No. 1,339,366; May 4; v. 274; p. 132.

Rich, Edward P., Chicago, Ill. Heating system. No. 1,338,961; May 4; v. 274; p. 57.

Richards, George, Westminster, London, England. Means applicable for use in milling screw-threads. No. 1,339,223; May 4; v. 274; p. 106.

Richards, Horace J., Watervliet, N. Y. Thermometer-holder. No. 1,339,288; May 4; v. 274; p. 117.

Richards, John W., Ralston, Ky. Rat-trap. No. 1,339,135; May 4; v. 274; p. 91.

Richardson, William D., assignor to Swift and Company, Chicago, Ill. Apparatus for making catalyzers. No. 1,338,698; May 4; v. 274; p. 9.

Rintoul, William. (See Nathan, F. L., Rintoul, and Baker.)

Rios, Ernesto G., Chicago, Ill. Rule. No. 1,338,962; May 4; v. 274; p. 57.

Risdon, I. V. (See Risdon, William N., assignor.)

Risdon, William N., assignor of one-half to Mrs. I. V. Risdon, Watsonville, Calif. Fruit pitter and cutter. No. 1,339,367; May 4; v. 274; p. 132.

Rix, Milton H. (See Thompson, Harry E., Linsley, and Rix.)

Roberge, James Z., Dallas, Tex. Automobile-tool. No. 1,339,289; May 4; v. 274; p. 117.

Roberts, Lyman R., Rutherford, N. J. Ribbon movement. No. 1,338,699; May 4; v. 274; p. 10.

Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, Pa. Thermostatic valve mechanism. No. 1,339,368; May 4; v. 274; p. 132.

Robertshaw, George A. (See Robertshaw, Frederick W., and G. A.)

Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. End folding and sealing machine for cartons. No. 1,338,749; May 4; v. 274; p. 19.

Roble, Pedro, Bogota, Colombia. Typewriting-machine. No. 1,339,369; May 4; v. 274; p. 133.

Rockwell, Christopher W. (See Rockwell, Welcome A., and C. N.)

Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)

Rockwell, Welcome A., and C. N., Groton, Conn. Railway safety device. No. 1,339,136; May 4; v. 274; p. 91.

Rodgers, Robert E., and T. C. Jackson, Chicago, Ill. Apparatus for laying roadbeds. No. 1,339,069; May 4; v. 274; p. 78.

Roehrig, Bernard F., Pasadena, Calif. Capping bottles. No. 1,339,370; May 4; v. 274; p. 133.

Rogers, Edwin M., New York, N. Y. Air-lift apparatus. No. 1,339,137; May 4; v. 274; p. 92.

Rogers, Homer S., assignor to J. R. Ball, Milwaukee, Wis. Pneumatic pump. No. 1,339,224; May 4; v. 274; p. 106.

Rolfe, Charles A., Redlands, Calif. Golf game. No. 1,338,963; May 4; v. 274; p. 58.

Rollins, Martin P., Cherrydale, Va. Support for multigraph-segments. No. 1,338,964; May 4; v. 274; p. 58.

Rose, Benjamin H., Lakewood, Ohio. Means for stacking tire-molds. No. 1,338,844; May 4; v. 274; p. 36.

Rose, James R., Edgeworth, Pa. Manufacturing gaseous fuel. No. 1,339,225; May 4; v. 274; p. 107.

Rose, Sandford C., Port Angeles, Wash. Wheel. No. 1,339,376; May 4; v. 274; p. 134.

Rotermund, William F., Seattle, Wash. Circuit-lock. No. 1,339,003; May 4; v. 274; p. 65.

Rotheram, Thomas, Creighton, Pa., assignor to Pittsburgh Plate Glass Company. Block-turning apparatus. No. 1,339,138; May 4; v. 274; p. 92.

Rouse, George L., Cincinnati, Ohio. Combined anti-rattler and window-locking device. No. 1,338,792; May 4; v. 274; p. 27.

Rousseau, Sidney A., New Orleans, La. Automatic coupling for fluid-conducting pipes of railway-cars. No. 1,339,042; May 4; v. 274; p. 73.

Rowe, W. S., *et al.* (See Salsman, James E., assignor.)

Rowley, George, Spotswood, Victoria, Australia. Twyer. No. 1,338,700; May 4; v. 274; p. 10.

Rownd, Annie K., *et al.* (See Kay, Samuel P., assignor.)

Ryckman, John, Minneapolis, Minn. Heating apparatus. No. 1,338,965; May 4; v. 274; p. 58.

Safety Steering Device Manufacturing Company, The. (See Small, Nathan, assignor.)

Salsman, James E., Crescentville, assignor of one-twelfth to W. S. Rowe and five-twelfths to H. W. Nichols, Cincinnati, and one-fourth to H. B. Jones, Arlington, Ohio. Tub-beater. No. 1,338,869; May 4; v. 274; p. 40.

Sanders, Alexander B., Miama, Fla. Combination-undergarment. No. 1,339,070; May 4; v. 274; p. 79.

Sanford, Henry H., Mansfield, Ohio. Combined solid and gaseous fuel range. No. 1,338,701; May 4; v. 274; p. 10.

Sanitary Heating and Ventilating Company. (See Cox, William F., assignor.)

Sanneman, Diedrich R. (See Trubenbach, C. D., and Sanneman.)

Sas, Elmer. (See Erdoes, J., and Sas.)

Sauer, George H. (See St. John, H. A., and Sauer.)

Schaefer, Adolph O., assignor, by mesne assignments, to Atlantic Service Company, Inc., Brooklyn, N. Y. Attachment for saws. No. 1,339,139; May 4; v. 274; p. 92.

Schaefer, Henry G., Cleveland, Ohio. Loading device. No. 1,339,290; May 4; v. 274; p. 118.

Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,338,870; May 4; v. 274; p. 41.

Schissel, Henry S., Philadelphia, Pa. Self-ejecting record-cabinet. No. 1,339,291; May 4; v. 274; p. 118.

Schlick, Erva A. (See Niles, Harry F., assignor.)

Schmidt, Charles D., Woodhaven, N. Y. Hook. No. 1,339,004; May 4; v. 274; p. 65.

Schmidt, Jacob J., Ogema, Saskatchewan, Canada. Disk-sharpener. No. 1,339,043; May 4; v. 274; p. 73.

Schmidt, Oscar. (See Carlucci, Rocco T., assignor.)

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for the application of hydraulic pressure to the interior of a tube being shaped by the self-hooping process. No. 1,338,871; May 4; v. 274; p. 41.

Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Apparatus for self-hooping tubes. No. 1,338,872; May 4; v. 274; p. 41.

Schou, Christian M. C., Copenhagen, Denmark. Labeling-machine. No. 1,338,793; May 4; v. 274; p. 27.

Schranck, Edward V., and E. F. Kunkel, Milwaukee, Wis. Heat-storing attachment for radiator systems. No. 1,338,750; May 4; v. 274; p. 19.

Schrantz, Samuel, St. Louis, Mo. Clasp. No. 1,338,702; May 4; v. 274; p. 10.

Schuster, Karl R., Brooklyn, N. Y. Structural bar. No. 1,339,226; May 4; v. 274; p. 107.

Schutz Hawley Company. (See Schutz, Joseph M., assignor.)

Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Wet coal-mill. No. 1,338,845; May 4; v. 274; p. 36.

Schwarzmann, Wolfgang E., and F. D. Norman, Springfield, Mass., assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Shaft-coupling. No. 1,338,751; May 4; v. 274; p. 19.

Schweizer, Eugene J. (See Brandt, Charles D., assignor.)

Scott, Henry B., Rock Ferry, England. Grass-border shears. No. 1,338,873; May 4; v. 274; p. 41.

Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Drilling-machine. No. 1,339,044; May 4; v. 274; p. 73.

Sebeto, John, Brooklyn, N. Y. Life-saving device. No. 1,339,227; May 4; v. 274; p. 107.

Selden, Charles W., Richmond, Va. Blotting-paper cabinet. No. 1,339,140; May 4; v. 274; p. 92.

Self Seating Valve Company. (See Washburn, William H., assignor.)

Sendiker, Edward A., Bradford, Pa. Automobile-signal. No. 1,338,703; May 4; v. 274; p. 10.

Serven, A. Ralph, trustee. (See Maxwell, George S., assignor.)

Shaffer, Richard M., assignor of one-fourth to C. B. Mann and one-fourth to C. B. Mann, Jr., Baltimore, Md. Aeroplane-propeller. No. 1,338,874; May 4; v. 274; p. 41.

Sharpnack, Matthew C., Jamison, Nebr. Hose-coupling. No. 1,339,141; May 4; v. 274; p. 92.

Sherman, Willis S., Milwaukee, Wis. End-matcher. No. 1,338,704; May 4; v. 274; p. 11.

Shimp, William A., Minneapolis, Minn. Valve. No. 1,338,705; May 4; v. 274; p. 11.

Shipman, Charles H., San Francisco, Calif. Operating means for direction-indicators. No. 1,339,071; May 4; v. 274; p. 79.

Shoemaker, George W., Dalton, Pa. Washboard. No. 1,339,292; May 4; v. 274; p. 118.

Sledlicks, Charles, Syracuse, N. Y. Ash-hoist. No. 1,339,072; May 4; v. 274; p. 79.

Siegel, Hermann. (See Zelewski, R. v., and Siegel.)

Siamo, Antonio P., Lowell, Mass. Letter-holder for packages. No. 1,338,875; May 4; v. 274; p. 41.

Simmons, Arthur W., Tyler, Tex. Locomotive driving-box. No. 1,339,228; May 4; v. 274; p. 107.

Sjoberg, John G., Oakland, Calif. Ship-launching control device. No. 1,339,293; May 4; v. 274; p. 118.

Skerl, Francesco, and Forrest J. Graef, assignors to The National Cash Register (Incorporated 1906) Company, Dayton, Ohio. Ticket-issuing accounting-machine. No. 1,338,876; May 4; v. 274; p. 42.

Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Drawing glass sheets. No. 1,339,229; May 4; v. 274; p. 107.

Sloe, Joseph E. (See Lobar, Abraham J., assignor.)

Small, Nathan, asignor to The Safety Steering Device Manufacturing Company, Baltimore, Md. Steering devise. No. 1,339,294; May 4; v. 274; p. 118.

Smith, Charles L., Regan, N. D. Fish-lure. No. 1,338,877; May 4; v. 274; p. 42.

Smith, Edward A., New York, N. Y. Protecting device for ships. No. 1,338,706; May 4; v. 274; p. 11.

Smith, James F., Gaffney, S. C. Lug-strap support. No. 1,339,295; May 4; v. 274; p. 118.

Smith, Kleber W., Freeport, Me. Gasolene-delivery tank. No. 1,338,878; May 4; v. 274; p. 42.

Smith, S. Morgan, Company. (See Felthousen, John H., assignor.)

Snejerson, Samuel L., Roxbury, assignor to Independent Button Fastener Machine Co., Boston, Mass. Button-feed mechanism for button-attaching machines. No. 1,339,324; May 4; v. 274; p. 124.

Sosa, Augustus M., assignor to The American Tool Works Company, Cincinnati, Ohio. Drilling machinery. No. 1,338,752; May 4; v. 274; p. 19.

Sosskin, Harry, Philadelphia, Pa. Radiator. No. 1,338,753; May 4; v. 274; p. 19.

Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven carrier. No. 1,338,794; May 4; v. 274; p. 27.

Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven pocketed carrier. No. 1,338,795; May 4; v. 274; p. 27.

Sparks, John W., Clear Lake, Iowa. Chair-swing. No. 1,338,296; May 4; v. 274; p. 119.

Speicher, Samuel J., Pittsburgh, Pa. Dust-valve. No. 1,339,005; May 4; v. 274; p. 66.

Sperry Gyroscope Company, The. (See Bauer, Franz, assignor.)

Sperry, Lawrence, Air Craft Company, The. (See Sperry, Lawrence B., assignor.)

Sperry, Lawrence B., Brooklyn, assignor to The Lawrence Sperry Air Craft Company, Inc., New York, N. Y. Aeroplane height-indicator. No. 1,339,006; May 4; 1, 274; p. 66.

Spicer, Elmer D., assignor to Moore Steam Turbine Corporation, Wellsville, N. Y. Packing for steam-turbine. No. 1,339,297; May 4; v. 274; p. 119.

Splitdorf Electrical Company. (See Broegger, Ivar W., assignor.)

Splitdorf Electrical Company. (See Lang, George L., assignor.)

Splitdorf Electrical Company. (See Libby, A. D. T., and Borger, assignors.)

Springer, Elijah H., assignor of one-half to E. C. Ashton, Salt Lake City, Utah. Pusher for Grain-heading machine. No. 1,338,707; May 4; 274; p. 11.

Stahl, Michael, assignor to Cultitractor Company, Minneapolis, Minn. Traction-engine. No. 1,338,754; May 4; v. 274; p. 20.

Standard Battery Manufacturing Company. (See Hawkins, Alda F., assignor.)

Standard Machinery Company. (See Zahn, Otto E., assignor.)

Standard Tank Car Company. (See Wood-Smith, George F., assignor.)

Standard Thermometer Company. (See Adair, Thomas D., Jr., assignor.)

Starkie, Nellie. (See Starkie, Robert E. and N.)

Starkie, Robert E. and N., Burnley, England. Combined toy and savings-bank. No. 1,338,879; May 4; v. 274; p. 42.

Staufenbell, Karl, Dubuque, Iowa. Collar-clip. No. 1,339,073; May 4; v. 274; p. 79.

Staver, Fred C., Avis, Pa. Combination-lock. No. 1,338,796; May 4; v. 274; p. 28.

Stearns and Foster Company, The. (See Paddack, Truman G., assignor.)

Steele, Hugh C., Minneapolis, Minn. Traction-belt. No. 1,339,298; May 4; v. 274; p. 119.

Stein, Samuel F., Williamsport, Pa. Label. No. 1,339,007; May 4; v. 274; p. 66.

Stengel, Joseph L., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. Stocking-guide for sewing-machines. No. 1,339,230; May 4; v. 274; p. 107.

Stern, Louis J., assignor to E. R. Tolfree, Boston, Mass. Water-filter. No. 1,339,045; May 4; v. 274; p. 74.

Sterzing, Albert A. E., New York, N. Y. Steam-turbine. No. 1,338,708; May 4; v. 274; p. 11.

Stevens and Company. (See Stevens, Frederick A., assignor.)

Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. No. 1,338,880; May 4; v. 274; p. 42.

Stewart, Roy C., Portland, Oreg. Spoon and spinner book. No. 1,339,231; May 4; v. 274; p. 108.

St. John, Henry A., and G. H. Sauer, Utica, N. Y. Folding dining-room set. No. 1,339,232; May 4; v. 274; p. 108.

Stock, Guy J., Bradford, England. Production of iron in an electric furnace. No. 1,338,881; May 4; v. 274; p. 43.

Stock, John J., New York, N. Y., assignor of one-half to J. J. Jones, Orlando, Fla. Amusement device. No. 1,339,299; May 4; v. 274; p. 119.

Stokes, J. Stogdell. (See Novotny, Emil E., assignor.)

Stone, Stewart, Butler, Pa. Pipe-grip. No. 1,339,233; May 4; v. 274; p. 108.

Strauss, Benno, Bredeney, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Object having great strength and great resitsance against the action of acids. No. 1,339,378; May 4; v. 274; p. 134.

Strid, Sven J., Chicago Heights, Ill., assignor to W. H. Miner, Chazy, N. Y. Door-operating mechanism. No. 1,338,755; May 4; v. 274; p. 20.

Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)

Strong, Carlisle and Hammond Company, The. (See Weintz, Jacob, assignor.)

Strong, Deborah V., Akron, Ind. Teapot-strainer. No. 1,339,008; May 4; v. 274; p. 66.

Sullivan, Cecelia L., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven carrier. No. 1,338,797; May 4; v. 274; p. 28.

Sullivan, Herbert W. (See Dean-Osgood, Henry J., assignor.)

Sulzberger, Nathan, New York, N. Y. Catalyst and producing same. No. 1,338,709; May 4; v. 274; p. 11.

Summers, Frank E., Memphis, Mo. Receiver for wireless telegraph and telephone circuits. No. 1,338,756; May 4; v. 274; p. 20.

Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Relieving attachment for lathes. No. 1,338,757. May 4; v. 274; p. 20.

Swanson, Fred W., Des Moines, Iowa. Combination truck and wagon dump. No. 1,338,798; May 4; v. 274; p. 28.

Swart, Walter G., F. A. Jordan, E. W. Davis, and T. B. Counselman, Duluth, Minn. Magnetic sizing and grading of ore. No. 1,339,300; May 4; v. 2744 p. 119.

Swartwood, Charles B. (See Swartwood, Charles B., *et al.* (See Swartwood, Charles H., assignor.)

Swartwood, Charles H., Boston, Mass., assignor of one-third to M. Swartwood, Swartwood, and one-third to C. B. Swartwood, Elmira, N. Y. Metallic railway-tie. No. 1,339,301; May 4; v. 274; p. 119.

Swartwood, Miles, *et al.* (See Swartwood, Charles H., assignor.)

Swift and Company. (See Richardson, William D., assignor.)

Swyers, Brice P., assignor to Motors Lock Company of America, Pittsburgh, Pa. Lock-switch. No. 1,339,302; May 4; v. 274; p. 120.

Szczurek, Joe, Chicago, Ill. Air-opener for doors. No. 1,338,882; May 4; v. 274; p. 43.

Szyperski, Edward V., Detroit, Mich. Douche-nozzle. No. 1,338,710; May 4; v. 274; p. 12.

Tarkington, Harry K., Connersville, Ind. Curtain-fastener. No. 1,338,883; May 4; v. 274; p. 43.

Taylor, Albert J., Lamasco, Tex. Button-fastener. No. 1,339,234; May 4; v. 274; p. 108.

Taylor, Harold D., York, England. Range-finding and the like instrument. No. 1,339,235; May 4; v. 274; p. 108.

Taylor, Huston, assignor to Detroit Carrier and Manufacturing Company, Detroit, Mich. Fire-pump. No. 1,338,711; May 4; v. 274; p. 12.

Taylor, John L., Oakmont, Pa. Metal barges. No. 1,338,712; May 4; v. 274; p. 12.

Terzich, John M., Sutter Creek, Calif. Time-controlled light. No. 1,339,236; May 4; v. 274; p. 108.

Texas Oil Well Pump Company. (See Mackenzie, Alexander S., assignor.)

Thomas, John W., Daisy, Tenn. Die and spiral. No. 1,338,799; May 4; v. 274; p. 28.

Thompson, Albert W., Lowell, and E. W. Comfort, Winchester, assignors to The G. M. Parks Company, Fitchburg, Mass. Vaporizing device. No. 1,339,303; May 4; v. 274; p. 120.

Thompson, George T., Washington, D. C. Light-projecting apparatus. No. 1,339,304; May 4; v. 274; p. 120.

Thompson, Harry E., R. B. Linsley, and M. H. Rix, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co. Standpipe. No. 1,338,846; May 4; v. 274; p. 36.

Thompson, Joseph W., Carbonado, assignor to E. Duffey, Seattle, Wash. Grease-gun attachment. No. 1,339,237; May 4; v. 274; p. 109.

Thordarson, Chester H., Chicago, Ill. Transformer. No. 1,338,884; May 4; v. 274; p. 43.

Throop, William D., Norwich, Conn. Electric switch. No. 1,339,306; May 4; v. 274; p. 121.

Tillinghast, Wallace E., Auburn, R. I. Vacuum and return steam-trap. No. 1,339,074; May 4; v. 274; p. 79.

Tillman, Clarence W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Reel-mount. No. 1,339,238; May 4; v. 274; p. 109.

Tobacco Treating Co., The. (See Buensod, Alfred C., assignor.)

Tod, George H., and E. H. Beck, Toronto, Ontario, Canada. Spacing device. No. 1,338,800; May 4; v. 274; p. 28.

Toelle, Walter H., Wallingford, Conn. Lock-housing for screws and bolts. No. 1,339,075; May 4; v. 274; p. 80.

Toland, Mary H., Chattanooga, Tenn. Float-operated circuit-closer. No. 1,339,239; May 4; v. 274; p. 109.

Tolfree, Edward R. (See Stern, Louis J., assignor.)

Toney, Jay, Omaha, Nebr. Door-lock. No. 1,338,713; May 4; v. 274; p. 12.

Tost, Max, Detroit, Mich., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism and operating same. No. 1,338,758; May 4; v. 274; p. 20.

Tracy, James J. (See Morse, Lawrence H., assignor.)

Tracy, James J., Cleveland, Ohio. Hat-making machine. No. 1,339,305; May 4; v. 274; p. 120.

Travis, Thurlow, Brooklyn, N. Y. Fur-screen. No. 1,339,240; May 4; v. 274; p. 109.

Tri-City Steel Company. (See Hyle, Jacob A., assignor.)

Tripp, Henry C., Auburn, N. Y. Duplex cleaner for windshields. No. 1,339,241; May 4; v. 274; p. 109.

Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Percy Manufacturing Company, Inc. Turnstile. No. 1,339,076; May 4; v. 274; p. 80.

Trufant, Walter E., Whitman, Mass. Cranberry-separator. No. 1,339,077; May 4; v. 274; p. 80.

Turner, Luther P., and J. R. Burrill, Spokane, Wash. Roadway. No. 1,338,801; May 4; v. 274; p. 28.

Turnill, Thomas W. (See Downs, C., Bellwood, and Turnill.)

Ulm, John E., Barberton, Ohio. Sewer-block. No. 1,338,885; May 4; v. 274; p. 43.

Underwood Typewriter Company. (See Waldheim, John, assignor.)

Union Special Machine Company. (See Moffatt, James R., assignor.)

Union Special Machine Company. (See Stengel, Joseph L., assignor.)

United Lead Company. (See Worrall, George H., assignor.)

United Shoe Machinery Corporation. (See Enslin, Herbert E., assignor.)

United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)

United States Convertible Car Co. (See Wyatt, Everett, assignor.)

Valenta, Charles, Chicago, Ill. Carpet-stitching device. No. 1,339,307; May. 4; v. 274; p. 121.

Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Alloy. No. 1,339,009; May 4; v. 274; p. 66.

Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Machine for making thermophone-blanks. No. 1,338,886; May 4; v. 274; p. 43.

Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Machine for finishing thermophones. No. 1,338,887; May 4; v. 274; p. 44.

Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Making thermophones. No. 1,338,888; May 4; v. 274; p. 44.

Van Doren, C. L., Inc. (See Oathout, Arthur N., assignor.)

Van Norman, Charles E., Springfield, Mass. Tool-carrying spindle. No. 1,339,308; May 4; v. 274; p. 121.

Vanderkleed, Charles E., Collingswood, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making manganates. No. 1,339,242; May 4; v. 274; p. 109.

Veselý, Karel, Tynice, near Sazavon, Czechoslovakia. Sewing-machine. No. 1,339,243; May 4; v. 274; p. 109.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Clutch. No. 1,339,047; May 4; v. 274; p. 74.

Wagner, Frank J., Yonkers, N. Y. Machine for cleaning truck-wheels and the like. No. 1,338,714; May 4; v. 274; p. 12.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,339,078; May 4; v. 274; p. 80.

Waldref, Grant, St. Paul, Minn. Hydraulic unloader. No. 1,339,079; May 4; v. 274; p. 80.

Walker, Matthew A., South Connellsville, Pa. Shell for machine-guns. No. 1,338,802; May 4; v. 274; p. 29.

Walters, Charles, Jr., Wessington Springs, S. D. Steering device. No. 1,339,048; May 4; v. 274; p. 74.

Walther, Paul. (See Holzapfel, A. C., and Walther.)

Waltz, Claud M., Summitville, Ind. Belt. No. 1,339,309; May 4; v. 274; p. 121.

Warren & Irrgang Company, The. (See Irrgang, William F., assignor.)

Washburne, William H., assignor to Self Seating Valve Company, Chicago, Ill. Valve. No. 1,338,759; May 4; v. 274; p. 21.

Waterhouse, Harold D., Hartford, Conn. Primer for internal-combustion engines. No. 1,339,080; May 4; v. 274; p. 80.

Watson, William, Portland, Oreg. Bucket-plow. No. 1,339,371; May 4; v. 274; p. 133.

Weagant, Roy A., Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for radiosignaling. No. 1,338,889; May 4; v. 274; p. 44.

Wedwick, Jacob. (See Nelson, H., and Wedwick.)

Weintz, Jacob, assignor to The Strong, Carlisle and Hammond Company, Cleveland, Ohio. Annealing and heat-treating furnace. No. 1,339,081; May 4; v. 274; p. 81.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,142; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,143; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,144; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,145; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,146; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,147; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,148; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,149; May 4; v. 274; p. 93.

Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,150; May 4; v. 274; p. 93.

Weith, Archie J. (See Redman, L. V., Weith, and Brock.)

Welch, Horace H., Chicago, Ill. Electric recorder. No. 1,338,715; May 4; v. 274; p. 12.

Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Bottle-cap lifter. No. 1,338,847; May 4; v. 274; p. 37.

Wells, Ezra T., Chicago, Ill. Water-heater. No. 1,338,760; May 4; v. 274; p. 21.

Western Electric Company. (See Albright, Henry F., assignor.)

Western Electric Company. (See Dunham, Bert G., assignor.)

Western Electric Company. (See Kochendorfer, Frederic S., assignor.)

Western Electric Company. (See Reynolds, J. N., and Hearn, assignors.)

Western Electric Company. (See Wright, Joseph L., assignor.)

Western Tire & Rubber Works. (See Brooks, Roscoe A, assignor.) (Reissue.)

Westinghouse Electric and Manufacturing Company. (See Woodward, Walter R., assignor.)

Westinghouse Lamp Company. (See Dennington, Arthur R., assignor.)

Wetmore, Charles P., assignor, by mesne assignments, to Koehring Machine Company, Milwaukee, Wis. Timing mechanism for intermittently-fed machines. No. 1,338,761; May 4; v. 274; p. 21.

Wetzstein, Bruno, Neuhausen, Switzerland. Stopping mechanism for fabric-frame-moving mechanism. No. 1,339,049; May 4; v. 274; p. 74.

White, Richard T., Chicago, Ill. Liquid-evaporator. No. 1,338,848; May 4; v. 274; p. 37.

Whitney, Baxter D., & Son, Inc. (See Farnum, William C., assignor.)

Whiton, Lucius E., New London, Conn. Protection of ships against torpedo attack. No. 1,339,372; May 4; v. 274; p. 133.

Whittaker, John A. (See Massoll, Curtis A., assignor.)

Widell, Magnus E., Maywood, Ill., assignor to American Can Company, New York, N. Y. Soldering-machine. No. 1,338,716; May 4 v. 274; p. 13.

Wilber, William H., Buffalo, N. Y. Water-power apparatus. No. 1,338,890; May 4; v. 274; p. 44.

Wilhelmy, Walter, Sr., Pueblo, Colo. Making non-intoxicating beverages. No. 1,338,803; May 4; v. 274; p. 29.

Wilkerson, Claud J. (See Burton, William H., and Wilkerson.)

Willcox, Frank A., Dartford, England. Safety device for use in connection with refrigerating-machines. No. 1,339,244; May 4; v. 274; p. 110.

Williams, George A., Watertown, Conn. Metal-can nozzle and closure therefor. No. 1,339,245; May 4; v. 274; p. 110.

Willis, Joseph H., assignor of one-half to J. A. Greene, Mahan, W. Va. Pole-setting device. No. 1,339,082; May 4; v. 274; p. 81.

Willmore, Amy D., Maywood, British Columbia, Canada. Vehicle attachment. No. 1,339,246; May 4; v. 274; p. 110.

Wilson, Ernest L., Preston, assignor of one-half to H. G. Wilson, London, England. Curtain-fitting. No. 1,339,247; May 4; v. 274; p. 110.

Wilson, Harold G. (See Wilson, Ernest L., assignor.)

Winchester Repeating Arms Co. (See Hemmingway, Horace B., assignor.)

Winchester Repeating Arms Co. (See Tillman, Clarence W., assignor.)

Winder, Charles B., Columbus, Ohio. Firearm-sight. No. 1,339,248; May 4; v. 274; p. 110.

Windisch, William C., Company. (See Windisch, George W., assignor.)

Windisch, George W., assignor to W. C. Windisch Company, Detroit, Mich. Temporary binder. No. 1,339,249; May 4; v. 274; p. 110.

Winn, Celestia M., Watonga, Okla. Bed. No. 1,339,250; May 4; v. 274; p. 111.
Wirt, Charles, Philadelphia, Pa. Making electrical resistance units. No. 1,338,717; May 4; v. 274; p. 13.
Wirth, Ernst, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing resinous bases from tar. No. 1,339,310; May 4; v. 274; p. 121.
Wischhusen, Frederick B., Houston, Tex. Stamping-machine. No. 1,339,050; May 4; v. 274; p. 75.
Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.)
Wolcott, Darwin S., trustee. (See Peebles, Thomas A., assignor.)
Wood-Smith, George F., assignor, by mesne assignments, to Standard Tank Car Company, St. Louis, Mo. Outlet-valve mechanism for tank-cars. No. 1,339,083; May 4; v. 274; p. 81.
Woodhouse, Albert E., Westminster, London, England. Clutch. No. 1,338,891; May 4; v. 274; p. 44.
Woodward, Walter R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulating system. No. 1,338,718; May 4; v. 274; p. 13.
Woodworth, Donald C., Auburn, Me. Antiskid-chain tool. No. 1,338,804; May 4; v. 274; p. 29.
Worrall, George H., Kirkwood, Mo., assignor to United Lead Company, New York, N. Y. Bearing. No. 1,339,084; May 4; v. 274; p. 81.
Wray, Albert A., Fredonia, Kans. Computing-table device. No. 1,338,892; May 4; v. 274; p. 45.
Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Inc., New York, N. Y. Telephone-exchange system. No. 1,339,010; May 4; v. 274; p. 66.
Wuesthoff, Frederick J., San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Mail-chute. (Reissue.) No. 14,854; May 4; v. 274; p. 135.
Wuesthoff, Frederick J., San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Mail-chute. (Reissue.) No. 14,855; May 4; v. 274; p. 136.
Wyatt, Everett, assignor to United States Convertible Car Co., Fort Worth, Tex. Convertible stock and freight car. No. 1,338,805; May 4; v. 274; p. 29.
Yoerg, Henry, St. Paul, Minn. Friction draft-gear. No. 1,338,893; May 4; v. 274; p. 45.
Yonemoto, Karokn, Honolulu, Hawaii. Puzzle. No. 1,339,251; May 4; v. 274; p. 111.
Young, Leonard A., Detroit, Mich. Upholstery-spring construction. No. 1,338,806; May 4; v. 274; p. 29.
Younkin, David F., Johnstown, Pa. Printing-frame. No. 1,338,894; May 4; v. 274; p. 45.
Zahn, Otto E., assignor to Standard Machinery Company, Schleisingerville, Wis. Spring-perch. No. 1,338,895; May 4; v. 274; p. 45.
Zelewski, Roman v. and H. Siegel, Engis, Belgium. Device for pushing back ores into the interior of mechanical muffler roasting-furnaces. No. 1,339,252; May 4; v. 274; p. 111.
Zetterlund, Carl, Chicago, Ill. Hoisting apparatus and controlling means therefor. No. 1,339,253; May 4; v. 274; p. 111.
Zitella, William, Adamston, W. Va. Vegetable-cutter. No. 1,339,254; May 4; v. 274; p. 112.
Zwicky, Jean, South Tottenham, England. Pump and compressor. No. 1,339,311; May 4; v. 274; p. 121.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Alsterlund, Henry E., Roslindale, Mass. Badge, emblem, or similar article. Nos. 55,013–14; May 4; v. 274; p. 136.
American Auto Lamp Company. (See Berk, William, assignor.)
American Balsa Company. (See Ranlett, David L., assignor.)
American Fabrics Company, The. (See Smith, William H., assignor.)
Arnold, Edwin E., assignor to Iron City Products Company, Pittsburgh, Pa. Lifting-jack. Nos. 55,015–16; May 4; v. 274; pp. 136–7.
Art In Buttons, Inc. (See Hallauer, Charles, assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Ayala, Federico. (See Campderá, R., and Ayala.)
Bailey, Mark W., New York, N. Y. Liquid-projecting device. No. 55,017; May 4; v. 274; p. 137.
Beach, H. D., Company. (See Stetson, John P., assignor.)
Belfry, Michael. (See Sedell, C. H., Whelan, and Belfry.)
Bellis, John R., Hackettstown, N. J. Button. No. 55,018; May 4; v. 274; p. 137.
Benedict, T. N., Mfg. Co. (See Saunders, Albert F. assignor.)
Bennet, Harold W., Evanston, Ill. Clock-casing. No. 55,019; May 4; v. 274; p. 137.
Benvenuti, Julius D., assignor to M. Moran, San Francisco, Calif. Doll. No. 55,020; May 4; v. 274; p. 137.
Berk, William, assignor to American Auto Lamp Company, Inc., New York, N. Y. Auto tail-lamp. No. 55,021; May 4; v. 274; p. 137.
Blair, James B., assignor of one-half to F. B. Owens, Decatur, Ill. Trail-marker. No. 55,022; May 4; v. 274; p. 137.
Blood, Thomas G., Birmingham, England. Housemaid's box. No. 55,023; May 4; v. 274; p. 138.
Campderá, Ramon, and F. Ayala, Mexico, Mexico. Perfumery-bottle. No. 55,024; May 4; v. 274; p. 138.
Cirelli, Francesco, Philadelphia, Pa. Sound-conducting device for talking-machines. No. 55,025; May 4; v. 274; p. 138.
Clarke, Walter H., Elyria, Ohio. Tire-tread. No. 55,026; May 4; v. 274; p. 138.
Dandoy, John J. (See McDonnell, G. F., and Dandoy.)
De Lautreppe, Albert, and H. M. Mesrines, New York, N. Y. Medal. No. 55,027; May 4; v. 274; p. 138.
Doran, Robert L., Chicago, Ill. Oil-burner. No. 55,028; May 4; v. 274; p. 138.
Dueber, Albert M., assignor to The Dueber Watch Case Manufacturing Company, Canton, Ohio. Watch-bow. No. 55,029; May 4; v. 274; p. 139.
Dueber Watch Case Manufacturing Company, The. (See Dueber, Albert M., assignor.)
Eberhardt, Paul, Palisade, N. J., assignor to Patchogue Manufacturing Company, New York, N. Y. Lace. No. 55,030; May 4; v. 274; p. 139.
Essayan, Harold G., Brookline, Mass. Spoon. No. 55,031; May 4; v. 274; p. 139.
Fort Wayne Tire & Rubber Manufacturing Company. (See Kraft, Louis E., assignor.)
Fuhrmann, Henry W. A., Alhambra, Calif. Toy automobile. No. 55,032; May 4; v. 274; p. 139.
Fybush, Moses F., Los Angeles, Calif. Cabinet for a talking-machine. No. 55,033; May 4; v. 274; p. 139.
Garnett, James C. M., Manchester, England. Flag. No. 55,034; May 4; v. 274; p. 139.
Giroux, Leon M., New York, N. Y. Watch-stand. No. 55,035; May 4; v. 274; p. 140.
Gordon Electric Mfg. Co., The. (See Seltzer, Ira R., assignor.)
Gorham Manufacturing Company. (See Staf, Axel H., assignor.)
Greenfield, Arthur L., Newark, N. J. Toy known as a go-beel. No. 55,036; May 4; v. 274; p. 140.
Haag Cabinet Company. (See Howard, Emmett M., assignor.)
Hallauer, Charles, assignor to Art In Buttons, Inc., Rochester, N. Y. Button. No. 55,037; May 4; v. 274; p. 140.
Hamilton, John R., Yonkers, N. Y., assignor to Automatic Sprinkler Company of America. Retainer-lever for a sprinkler-head or similar article. No. 55,038; May 4; v. 274; p. 140.
Hartline, William A., Penns Grove, N. J. Service-pin. No. 55,039; May 4; v. 274; p. 140.
Hatch, Florence B., St. Louis, Mo. Doll. No. 55,040; May 4; v. 274; p. 141.
Hatfield, Robert L., Newark, N. J. Emblem, badge, pin, fob, ring, or like article. No. 55,041; May 4; v. 274; p. 141.
Heath, Thomas, assignor to The Standard Button Company, Attleboro, Mass. Pin or similar article. No. 55,042; May 4; v. 274; p. 141.
Heine, Frank H. (See Nicholas, L. B., and Heine.)
Heywood Brothers & Wakefield Company. (See Keeney, Howard R., assignor.)
Hinger, John A., Detroit, Mich. Radiator. No. 55,043; May 4; v. 274; p. 141.
Hinger, John A., Detroit, Mich. Radiator. No. 55,044; May 4; v. 274; p. 141.
Howard, Emmett M., Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa. Phonographic-disk-record cabinet. No. 55,045; May 4; v. 274; p. 141.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 55,046; May 4; v. 274; p. 141.
Humphrey, Clen S., Brooklyn, N. Y. Powder-can or similar receptacle. No. 55,047; May 4; v. 274; p. 142.
Humphrey, Ira V., Highland Park, Pa. Tire. No. 55,048; May 4; v. 274; p. 142.
Iron City Products Company. (See Arnold, Edwin E., assignor.)
Jacobs, Samuel A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Font of Syriac type. Nos. 55,049–51; May 4; v. 274; p. 142.
Janlecz, Antoni, Curtis Bay, Md. Hairpin. No. 55,052; May 4; v. 274; p. 142.
Kazanjian, Manoog, Boston, Mass. Phonograph-record. No. 55,053; May 4; v. 274; p. 142.
Keeney, Howard R., Melrose, assignor to Heywood Brothers Wakefield Company, Wakefield, Mass. Child's vehicle. No. 55,054; May 4; v. 274; p. 143.
Keystone Manufacturing Company. (See Marks, Isidore, assignor.)
Kirchen, Theodore, Chicago, Ill. Novelty-basket. No. 55,055; May 4; v. 274; p. 143.
Knothe, Frank F., Ridgewood, N. J. Belt. No. 55,056; May 4; v. 274; p. 143.

Kraft, Louis E., assignor to Fort Wayne Tire & Rubber Manufacturing Company, Fort Wayne, Ind. Pneumatic-tire tread. No. 55,057; May 4; v. 274; p. 143.
Kregling, Adolf, Stratford, Conn. Musical instrument. No. 55,058; May 4; v. 274; p. 143.
Large, George C., assignor to Wear-Well Tire Company, Mahoningtown, Pa. Vehicle-tire. No. 55,059; May 4; v. 274; p. 143.
Larson, Ragnar, Chicago, Ill. Boy's wagon. No. 55,060; May 4; v. 274; p. 144.
Le Duc, Nancy B., Santa Monica, Calif. Button, brooch, badge, or similar article. No. 55,061; May 4; v. 274; p. 144.
Lesem, Isaac H., St. Louis, Mo. Hand or toilet fan. No. 55,062; May 4; v. 274; p. 144.
Lloyd, Thomas, Boston, Mass. Sanitary fountain. No. 55,063; May 4; v. 274; p. 144.
Lutz, John E., Blair, Nebr. Cemetery-lot coping. No. 55,064; May 4; v. 274; p. 144.
McDonald, John B., East Liverpool, Ohio. Hollow china tableware article. No. 55,067; May 4; v. 274; p. 145.
McDonnell, George F., Charleston, and J. J. Dandoy, Dunbar, W. Va. Milk-jar. No. 55,068; May 4; v. 274; p. 145.
McKee, John J., East Orange, N. J. Naval service-flag. No. 55,069; May 4; v. 274; p. 146.
Marks, Isidore, assignor to Keystone Manufacturing Company, Boston, Mass. Toy motion-picture machine. No. 55,107; May 4; v. 274; p. 152.
Marsh, C. A., and Company. (See Rounseville, William E., assignor.)
Masonoff, Morris H. J., Kansas City, Mo. Housing for a spark-intensifier. No. 55,065; May 4; v. 274; p. 145.
Mergenthaler Linotype Company. (See Jacobs, Samuel A., assignor.)
Mesrines, Henry M. (See de Lautreppe, A., and Mesrines.)
Messer, Charles J., Syracuse, N. Y. Candle. No. 55,066; May 4; v. 274; p. 145.
Miller, Harry A., Los Angeles, Calif. Automobile. No. 55,070; May 4; v. 274; p. 146.
Moffat, Frederick W., assignor to The Moffat Stove Company Limited, Weston, Ontario, Canada. Insulator-porcelain for electric ovens. No. 55,071; May 4; v. 274; p. 146.
Moffat Stove Company, The. (See Moffat, Frederick W., assignor.)
Moor, Herbert H., Davenport, Iowa. Radiator-cap ornament. No. 55,072; May 4; v. 274; p. 146.
Moran, May. (See Benvenuti, Julius D., assignor.)
Morrison, Ralph W., Omaha, Nebr. Phonograph-cabinet. No. 55,073; May 4; v. 274; p. 146.
Noble, Arnold, Weehawken, N. J. Doll-head. No. 55,074; May 4; v. 274; p. 146.
Nicholas, Lorena B., Los Angeles, and F. H. Heine, Santa Ana, Calif. Toy aeroplane. No. 55,075; May 4; v. 274; p. 147.
Obrecht, Frances, Flint, Mich. Sammy Sandman doll. No. 55,076; May 4; v. 274; p. 147.
Owens, Frank B. (See Blair, James B., assignor.)
Page, Samuel D., Des Moines, Iowa. Pad-rack. No. 55,077; May 4; v. 274; p. 147.
Pasecky, Karl, Washington, D. C. Toy animal. No. 55,078; May 4; v. 274; p. 147.
Patchogue Manufacturing Company. (See Eberhart, Paul, assignor.)
Ranlett, David L., New York, N. Y., assignor to American Balsa Company. Surf-board. No. 55,079; May 4; v. 274; p. 147.
Reid, Elmer A., Somerset, N. J. Tire. No. 55,080; May 4; v. 274; p. 147.
Rounseville, William E., assignor to C. A. Marsh and Company, Attleboro, Mass. Belt-clasp. Nos. 55,081–2; May 4; v. 274; p. 148.
Sandstrom, August E., New York, N. Y. Toy top. No. 55,084; May 4; v. 274; p. 148.
Saunders, Albert F., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Sundae-cup. No. 55,085; May 4; v. 274; p. 148.
Saunders, Albert F., Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Sundae-holder. No. 55,086; May 4; v. 274; p. 149.
Schleicher, Adolf B., Pasadena, Calif. Tire. No. 55,087; v. 274; p. 149.
Seeholzer, Albert G., Detroit, Mich. Emblem, badge, or similar article. No. 55,088; May 4; v. 274; p. 149.
Sedell, Charles H., C. C. Whelan, and M. Belfry, Chicago, Ill., assignors to C. H. Sedell and C. C. Whelan. Memorial tablet. No. 55,089; May 4; v. 274; p. 149.
Seltzer, Ira R., Waterbury, assignor to The Gordon Electric Mfg. Co., Waterville, Conn. Plural-pole entrance-switch base. No. 55,090; May 4; v. 274; p. 149.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 55,091; May 4; v. 274; p. 149.
Sharpe, James, Detroit, Mich. Game apparatus. No. 55,092; May 4; v. 274; p. 150.
Smigielski, Stanley, Detroit, Mich. Lamp-box. No. 55,093; May 4; v. 274; p. 150.
Smith, Harry J., Binghamton, N. Y. Vehicle-tire. No. 55,094; May 4; v. 274; p. 150.
Smith, William H., assignor to The American Fabrics Company, Bridgeport, Conn. Lace for trimming purposes. No. 55,095; May 4; v. 274; p. 150.
Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 55,096; May 4; v. 274; p. 150.
Standard Button Company, The. (See Heath, Thomas, assignor.)
Steinert, Rudolph, New Haven, Conn. Phonograph-needle. No. 55,097; May 4; v. 274; p. 150.
Stetson, John P., New York, N. Y., assignor to H. D. Beach Company, Coshocton, Ohio. Display-stand. No. 55,098; May 4; v. 274; p. 151.
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Sullivan, Mae F., Duluth, Minn. Child's sled. No. 55,099; May 4; v. 274; p. 151.
Tabara, Joseph, Woodhaven, N. Y. Toy. No. 55,083; May 4; v. 274; p. 148.
Tenney, John, Jr., Plainfield, N. J. Tire. No. 55,100; May 4; v. 274; p. 151.
Trump, Elno H., Barberton, Ohio. Elastic vehicle-tire. No. 55,101; May 4; v. 274; p. 151.
Van Schrum, William H., Columbus, Ohio. Flying toy. No. 55,102; May 4; vol. 274; p. 151.
Wear-Well Tire Company. (See Large, George C., assignor.)
Whelan, Christopher C. (See Sedell, C. H., Whelan, and Belfry.)
Williams, David C., Arlington, Mass. Talking-machine cabinet. No. 55,103; May 4; v. 274; p. 151.
Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 55,104; May 4; v. 274; p. 152.
Willson, T. A., & Co. (See Willson, Frederick, assignor.)
Wilmarth, Frank L., Central Falls, R. I. Emblem, badge, pin, ornament, or similar article. No. 55,105; May 4; v. 274; p. 152.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Searchlight. No. 55,106; May 4; v. 274; p. 152.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. California hops. No. 131,077. May 4; v. 274; p. 195.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Vacuum-cleaners. No. 131,078; May 4; v. 274; p. 195.
Aberdeen Packing Co., Aberdeen, Wash. Canned salmon. No. 131,012; May 4; v. 274; p. 193.
Ace Manufacturing Company, St. Louis, Mo. Mechanical starting devices for automobiles. No. 130,596; May 4; v. 274; p. 181.
Adams, J. D., & Company, Indianapolis, Ind. Road-graders. No. 130,597; May 4; v. 274; p. 181.
Alaska Salmon & Herring Packers, Inc., Seattle, Wash. Canned salmon and herring. No. 130,598; May 4; v. 274; p. 181.
Albertson & Company, Sioux City, Iowa. Valve-grinders, valve-seat reamers, &c. No. 130,599; May 4; v. 274; p. 181.
Alforth, Alma R., Chicago, Ill. Candies. No. 130,600; May 4; v. 274; p. 181.
Alling and Cory Co., Rochester, N. Y. Wrapping-paper. No. 131,104; May 4; v. 274; p. 193.
Alling, Leon B., Plainfield, N. J. Hose. No. 130,601; May 4; v. 274; p. 181.
Alling, Leon B., Plainfield, N. J. Hose. No. 131,013; May 4; v. 274; p. 193.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting machinery. No. 130,602; May 4; v. 274; p. 181.
American Abrasive Company, Westfield, Mass. Abrasives. No. 130,603; May 4; v. 274; p. 181.
American Bosch Magneto Corporation, Springfield, Mass. Magneto-electric generators and parts thereof. No. 131,015; May 4; v. 274; p. 193.
American Bureau of Engineering, Inc., Chicago, Ill. Voltmeters, armature-testers, &c. No. 130,604; May 4, v. 274; p. 181.
American Commercial Car Co., Detroit, Mich. Automobile-trucks. No. 131,016; May 4; v. 274; p. 193.
American Hard Rubber Company, Hempstead, N. Y. Combs and buttons. No. 130,605; May 4; v. 274; p. 181.
American Hard Rubber Company, Hempstead and New York, N. Y. Combs for dressing, ornamenting, and cleaning the hair and buttons for wearing-apparel. Nos. 131,017–18; May 4; v. 274; p. 193.
American Import Co., The, San Francisco, Calif. Clothing. No. 130,606; May 4; v. 274; p. 181.
American Lady Corset Company, Detroit, Mich. Corsets. No. 131,019; May 4; v. 274; p. 193.

American La France Fire Engine Co., Inc., Elmira, N. Y. Clothing. No. 130,607; May 4; v. 274; p. 181.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine of vegetable fiber. No. 130,608; May 4; v. 274; p. 181.
American Non-Ferrous Metals Corporation, Chester, Pa. Bearing-metal. No. 130,609; May 4; v. 274; p. 181.
American Optical Company, Southbridge, Mass. Ophthalmic lenses. No. 130,610; May 4; v. 274; p. 181.
American Overgaiter Co., Baltimore, Md. Overgaiters. No. 130,611; May 4; v. 274; p. 181.
American Pop Corn Works, Inc., Boston, Mass. Popcorn confections. No. 131,020; May 4; v. 274; p. 193.
American Pozzolana Company, Indianapolis, Ind. Cement, stucco, and plaster. No. 130,612; May 4; v. 274; p. 181.
American Products Co., Omaha, Nebr. Foods and ingredients of foods. No. 136,613; May 4; v. 274; p. 181.
American Steel Export Company, New York, N. Y. Electrical apparatus and supplies. No. 130,614; May 4; v. 274; p. 181.
American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar for use as a food. No. 131,021; May 4; v. 274; p. 193.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. Nos. 130,615–16; May 4; v. 274; p. 181.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 130,617; May 4; v. 274; p. 181.
American Trading Company, New York, N. Y. Cotton blankets and flannels in the piece and made of cotton. No. 131,022; May 4; v. 274; p. 193.
American Twine Co., Inc., New York, N. Y. Twine. No. 130,618; May 4; v. 274; p. 181.
Anchor Webbing Co., Pawtucket, R. I. Webbings. No. 130,619; May 4; v. 274; p. 181.
Anti-Bacilli Company, St. Louis, Mo. Mouthpiece attachments for the transmitters of telephones. No. 131,023; May 4; v. 274; p. 194.
Anti-Pyorrhea Chemical Company, St. Louis, Mo. Compositions for fitting false teeth. No. 130,620; May 4; v. 274; p. 181.
Apsley Rubber Company, Hudson, Mass. Canvas outing-shoes. No. 130,621; May 4; v. 274; p. 181.
Archbold Manufacturing Corporation, Rochester, N. Y. Syrup to be used as a food. No. 130,622; May 4; v. 274; p. 182.
Argonne Motor Car Company, Jersey City, N. Y. Automobiles, automobile-radiators, and wheel-hub caps. No. 131,025; May 4; v. 274; p. 194.
Armstrong Cork Company, Pittsburgh, Pa. Composition soles and heels for boots and shoes. Nos. 130,624–5; May 4; v. 274; p. 182.
Arctic Ice & Coal Co., Greensboro, N. C. Ice-cream and ices. No. 131,024; May 4; v. 274; p. 194.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,627; May 4; v. 274; p. 182.
Aspegren & Co., New York, N. Y. Shortening and frying medium. No. 131,026; May 4; v. 274; p. 194.
Asphalt Manufacturing Company, The, Lancaster, Ohio. Slate-surfaced roofings and shingles. No. 130,628; May 4; v. 274; p. 182.
Atlantic Insulated Wire & Cable Company, Jersey City, N. J., and Stamford, Conn. Electric wire. No. 130,629; May 4; v. 274; p. 182.
Aubry, Justin E., Springfield, Mass. Bread, cakes, pies, and pastry. No. 131,027; May 4; v. 274; p. 194.
Austin, Nichols & Company Incorporated, Brooklyn and New York, N. Y. Certain named foods. No. 130,630; May 4; v. 274; p. 182.
Automatic Electric Sterilizer Co., The, Hamilton, Ohio. Electric sterilizers. No. 131,028; May 4; v. 274; p. 194.
B. & H. Fibre Mfg. Co., Chicago, Ill. Talking-machine needles. No. 130,719; May 4; v. 274; p. 184.
B. V. D. Company, The, New York, N. Y. Underwear. No. 130,663; May 4; v. 274; p. 185.
"Babs" Manufacturing Corporation, Philadelphia, Pa. Walking doll. No. 130,631; May 4; v. 274; p. 182.
Backé, Tod, Brooklyn, N. Y. Candies. No. 131,029; May 4; v. 274; p. 194.
Baker, George W., Dallas, Tex. Waterproof dressing for leather, &c. No. 131,030; May 4; v. 274; p. 194.
Bakke, A., Omaha, Nebr. Bread. No. 131,031. May 4; v. 274; p. 194.
Ballin, Solomon, New York, N. Y. Clothing. No. 131,032; May 4; v. 274; p. 194.
Ballin, Solomon, New York, N. Y. Sleeping-garments. No. 131,033; May 4; v. 274; p. 194.
Barber & Bennett, Inc., Albany, N. Y. Stock, horse, dairy, and poultry feed. No. 130,633; May 4; v. 274; p. 182.
Barva Heel & Tire Factory, Inc., Fort Wayne, Ind. Rubber heels. No. 131,034; May 4; v. 274; p. 194.
Beich, Paul F., Co., Bloomington, Ill. Candy. No. 130,636; May 4; v. 274; p. 182.
Bell & Howell Co., Chicago, Ill. Motion-picture producing apparatus. No. 130,637; May 4; v. 274; p. 182.
Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 131,036; May 4; v. 274; p. 194.
Becton, Dickinson & Co., Rutherford, N. J. All-cotton elastic bandage. No. 130,635; May 4; v. 274; p. 182.
Beck, Mitchel, Brooklyn, N. Y. Canned fish. No. 130,634; May 4; v. 274; 182.
Beinhauer Bros. Candy Co., New York, N. Y. Candy. No. 131,035; May 4; v. 274; p. 194.
Bentley & Twohey, New York, N. Y. Silk piece goods. No. 131,037; May 4; v. 274; p. 194.
Berbecker & Rowland Manufacturing Company, Waterville, Conn. Metallic articles of upholstery and cabinet hardware. No. 131,038; v. 274; p. 194.
Billings & Spencer Company, The, Hartford, Conn. Tools and parts thereof. No. 130,638; May 4; v. 274; p. 182.
Bishop & Company, Los Angeles, Calif. Candies, cocoa, jams, &c. No. 130,639; May 4; v. 274; p. 182.
Bittner, G. C., Co., The, Toledo, Ohio. Toilet preparation. No. 131,039; v. 274; p. 194.
Bixler Baking Co., Youngstown, Ohio. Bread. No. 130,640; May 4; v. 274; p. 182.
Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, blank books. No. 131,041; May 4; v. 274; p. 194.
Blatchford Calf Meal Company, Waukegan, Ill. Compound ground feed. No. 130,641; May 4; v. 274; p. 182.
Blawn, James F., Brooklyn, N. Y. Cleaning fluid for polishing metal surfaces. No. 131,042; May 4; v. 274; p. 194.
Block Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. Nos. 130,642–3; May 4; v. 274; p. 182.
Bloom Flusher Co., Tiffin, Ohio. Oil-cup. No. 130,644; May 4; v. 274; p. 182.
Blublaze Motor Specialties Corp., New York, N. Y. Ignition-timers. No. 130,645; May 4; v. 274; p. 182.
Boker, H., & Co. Inc., New York, N. Y. Steel balls for ball-bearings. No. 130,632; May 4; v. 274; p. 182.
Boldemann Chocolate Company, San Francisco, Calif. Sweet chocolate. No. 130,646; May 4; v. 274; p. 182.
Bonebright, Gertrude R., Grand Rapids, Mich. Supporters for diapers. No. 131,043; May 4; v. 274; p. 194.
Bourjois, A., & Co., Inc., New York, N. Y. Tooth, nail, hair, bath, and face brushes. No. 130,650; May 4; v. 274; p. 182.
Borden Company, The, Jersey City, N. J., and New York, N. Y. Foods and ingredients of foods. No. 130,647; May 4; v. 274; p. 182.
Boston Auto Gage Company, Boston, Mass. Lubricating and grease guns. No. 130,648; May 4; v. 274; p. 182.
Boston Food Products Company, East Boston, Mass. Canned meats, soup, sauces, sausages, &c. No. 130,649; May 4; v. 274; p. 182.
Brackett, Ernest R., Dallas, Tex. Automobile-lenses. No. 131,044; May 4; v. 274; p. 194.
Bradley, Milton, Company, Springfield, Mass. Games of jackstraws. No. 131,045; May 4; v. 274; p. 194.
Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. Nos. 131,046–52; May 4; v. 274; p. 194.
Brecht Candy Company, The, Denver, Colo. Chocolates. No. 130,651; May 4; v. 274; p. 182.
Brecht Candy Company, The, Denver, Colo. Chocolates. Nos. 131,053–5; May 4; v. 274; p. 194.
Bridgeport Brass Company, Bridgeport, Conn. Copper, brass, and bronze ingots, rods, sheets, &c. No. 131,056; May 4; v. 274; p. 195.
Brintnall, Leslie C., Los Angeles, Calif. Dolls. No. 130,652; May 4; v. 274; p. 182.
Brown Instrument Company, The, Philadelphia, Pa. Protecting-tubes for pyrometers. No. 130,653; May 4; v. 274; p. 182.
Brown, L. L., Paper Company, Adams, Mass. Ledger, record, linen, bond, and writing papers. No. 130,654; May 4; v. 274; p. 182.
Browning, C. A., Co. Boston, Mass. Millinery. No. 130,655; May 4; v. 274; p. 183.
Brownstein-Louis Company, Los Angeles, Calif. Men's dress, &c., shirts. No. 130,656; May 4; v. 274; p. 183.
Brownstein-Louis Company, Los Angeles, Calif. Overalls. No. 130,658; May 4; v. 274; p. 183.
Bruns, Armin R., Washington, Iowa. Field, garden, and flower seeds. No. 130,623; May 4; v. 274; p. 182.
Bryant, Augustus H., Glen Ridge, N. J. Edge tools—viz., razors. No. 130,661; May 4; v. 274; p. 183.
Buckeye Nurseries, Tampa, Winterhaven, Lucerne Park, and Howey, Fla. Fresh oranges. No. 130,853; May 4; v. 274; p. 188.
Burger, Iwan, Inc., New York, N. Y. Foods and ingredients of foods. No. 131,057; May 4; v. 274; p. 195.
Buscaglia, A. & C., Co., Buffalo, N. Y. Olive-oil and tomato paste. No. 130,662; May 4; v. 274; p. 183.
Byrne, Joseph F., Omaha, Nebr. Hosiery for women. Nos. 131,058–9; May 4; v. 274; p. 195.
Byron Weston Co., Dalton, Mass. Machine-bookkeeping paper. No. 130,990; May 4; v. 274; p. 192.
California Walnut Sauce Co., Los Angeles, Calif. Walnut sauce and pickled walnuts. No. 130,664; May 4; v. 274; p. 183.
Candy Cake Corporation, Wilmington, Del., and Newark, N. J. Cakes and crackers. No. 131,060; May 4; v. 274; p. 195.
Carlyle Milling Company, Carlyle, Ill. Self-rising wheat-flour. No. 131,061; May 4; v. 274; p. 195.
Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 130,665; May 4; v. 274; p. 183.
Carteret Silk Company, Jersey City, N. J. Underwear, petticoats, and outer waists. No. 130,667; May 4; v. 274; p. 183.

Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Nainsooks, muslins, longcloth, and cambrics. No. 130,666; May 4; v. 274; p. 183.
Chamberlain, F. B., Company, St. Louis, Mo. Flavoring extracts for foods. No. 131,062; May 4; v. 274; p. 195.
Charms Company, Newark, N. J. Candy and fruit tablets. Nos. 130,669–70; May 4; v. 274; p. 183.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 130,671; May 4; v. 274; p. 183.
Chicago Flexible Shaft Company., Chicago, Ill. Electric flat-irons. Nos.131,063–4; May 4; v. 274; p. 195.
Chicago Pneumatic Tool Company, Chicago, Ill. Electric track and spindle drills, grinders, hammer-drills, &c. No 131,065; May 4; v. 274; p. 195.
Chicago Tanning Co., Chicago, Ill. Horse-leather. No. 130,672; May 4; v. 274; p. 183.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 130,673; May 4; v. 274; p. 183.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 131,066; May 4; v. 274; p. 195.
Cloud-Thomas Co., Yakima, Wash. Fresh fruits. No. 130,674; May 4; v. 274; p. 183.
Cody, John P., Evansville, Ind. Caps and hats. No. 130,675; May 4; v. 274; p. 183.
Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments. No. 131,067; May 4; v. 274; p. 195.
Cohn, Doris, New York, N. Y. Ladies' leather shoes. No. 130,676; May 4; v. 274; p. 183.
Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 130,677; May 4; v. 274; p. 183.
Columbia Manicure Mfg. Co., New York, N. Y. Manicuring implements. No. 130,678; May 4; v. 274; p. 183.
Columbus Dental Manufacturing Company, The, Columbus, Ohio. Artificial teeth. No. 130,679; May 4; v. 274; p. 183.
Commercial Shirt Company, New York, N. Y. Dress shirts. No. 131,068; May 4; v. 274; p. 195.
Commonwealth Motors Co., Chicago, Ill. Pleasure-automobiles. No. 131,069; May 4; v. 274; p. 195.
Commonwealth Steel Company, St. Louis, Mo. Railway-cars and parts thereof. No. 130,680; May 4; v. 274; p. 183.
Conceição, Julio, Santos, Brazil. Machines for injecting fluid into the ground for exterminating insects. No. 130,681; May 14; v. 274; p. 183.
Conkey, G. E., Co., The, Cleveland, Ohio. Starting feed for chicks. Nos. 130,682–3; May 4; v. 274; p. 183.
Conklin, Horace E., Binghamton, N. Y. Seed-corn, grass and field seeds. No. 130,684; May 4; v. 274; p. 183.
Connecticut Telephone & Electric Company, Incorporated, The, Meriden, Conn. Detectors for wireless-telegraph apparatus. No. 130,685; May 4; v. 274; p. 183.
Cooper Underwear Company, Kenosha, Wis. Underwear. No. 131,070; May 4; v. 274; p. 195.
Converse Rubber Shoe Co., Malden, Mass. Boots and shoes of rubber, canvas, or combination. No. 130,686; May 4; v. 274; p. 183.
Corno Mills Company, St. Louis, Mo. Rolled oats. No. 130,687; May 4; v. 274; p. 183.
Cowden Manufacturing Co., St. Paul, Minn. Overalls. No. 130,688; May 4; v. 274; p. 184.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 131,071; May 4; v. 274; p. 195.
Crawford McGregor and Canby Company, Dayton, Ohio. Golf-clubs. No. 130,689; May 4; v. 274; p. 184.
Crown Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls. No. 130,690; May 4; v. 274; p. 184.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blocks, forgings, &c. Nos. 130,691–2; May 4; v. 274; p. 184.
Cummings, Charles C., St. Louis, Mo. Laundry soaps, soap tablets, and rug cleaners. No. 131,072; May 4; v. 274; p. 195.
D. A. P. Confectionery, Inc., New York, N. Y. Candies and chocolates. No. 130,693; May 4; v. 274; p. 184.
Dantzler, Mortimer O., Orangeburg, S. C. Nuts. No. 131,073; May 4; v. 274; p. 195.
Daum Rogers Spritzer Co., New York, N. Y. Hosiery. No. 130,694; May 4; v. 274; p. 184.
David, Geo. M., Barre, Vt. Laundry-tablets. No. 131,074; May 4; v. 274; p. 195.
Davies, William, Company, Limited, Chicago, Ill. Bacon, hams, lard, &c. No. 130,695; May 4; v. 274; p. 184.
Delaware Electric & Supply Co., Wilmington, Del. Composition roofing and covering for pipes. No. 131,075; May 4; v. 274; p. 195.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. No. 131,076; May 4; v. 274; p. 195.
De Luca, John A., St. Helena, Md. Mayonnaise dressing, chilli-chow, and marshmallow preparation. No. 130,696; May 4; v. 274; p. 184.
Deshler Broom Factory, Deshler, Nebr. Brooms and whisk-brooms. Nos. 130,697–8; May 4; v. 274; p. 184.
De Vilbiss Manufacturing Company, Toledo, Ohio. Powder-blowers for use in medicine and surgery. No. 130,699; May 4; v. 274; p. 184.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Parchmentized fiber, sheets, rods, tubes, and disks. No. 130,700; May 4; v. 274; p. 184.
Divine, Dwight & Sons, Ellenville, N. Y. Pocket, pen, kitchen knives, &c. No. 130,706; May 4; v. 274; p. 184.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. Nos. 131,079–80; May 4; v. 274; p. 195.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. Nos. 131,081–7; May 4; v. 274; p. 195.
Dollfus-Mieg & Cie, Societé Anonyme, Mülhouse, Germany. Braids and passementerie. Nos. 131,088–92; May 4; v. 274; pp. 195–6.
Dorris Milling Company, Nashville, Tenn. Wheat-flour. No. 131,093; May 4; v. 274; p. 196.
Drodle & Vital, Detroit, Mich. Puzzle. No. 130,701; May 4; v. 274; p. 184.
Drum Medicine Company, The, Salisbury, N. C. Medicinal preparation for stomach, nerves, and liver. No. 130,702; May 4; v. 274; p. 184.
Dudclif & Company, Chicago, Ill. Shoes. No. 131,094; May 4; v. 274; p. 196.
Duncan Coffee Co., Houston, Tex. Coffee. No. 130,703; May 4; v. 274; p. 184.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. High explosive of dynamite type. No. 130,704; May 4; v. 274; p. 184.
Durfee, Lydia M., Springfield, Mass. Mechanical hair-extractor. No. 130,705; May 4; v. 274; p. 184.
Dymalkon Metals Corporation, New York, N. Y. Architectural bronze-work for building exteriors and interiors. No. 131,095; May 4; v. 274; p. 196.
Dymalkon Metals Corporation, New York, N. Y. Honor-rolls, bas-reliefs, and memorial tablets. No. 130,707; May 4; v. 274; p. 184.
Eastern Fountain Co., Boston, Mass. Drinking-fountains and parts thereof for human use. No. 130,708; May 4; v. 274; p. 184.
Economou, Nickitas P., New York, N. Y. Olive-oil. No. 131,096; May 4; v. 274; p. 196.
Elie, Philip, New York, N. Y. Tobacco, cigars, and cigarettes. No. 130,709; May 4; v. 274; p. 184.
Elastowear Manufacturing Company, The, Cincinnati, Ohio. Girdles, brassières, hip-reducing corsets, &c. No. 130,710; May 4; v. 274; p. 184.
Elbe Motor Co., Los Angeles, Calif. Rear-sight mirrors for vehicles. No. 131,097; May 4; v. 274; p. 196.
Elder Manufacturing Co., St. Louis, Mo. Boys' and children's clothing. No. 131,098; May 4; v. 274; p. 196.
Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric apparatus and supplies. No. 131,099; May 4; v. 274; p. 196.
Electro Silicon Co., New York, N. Y. Preparation for cleaning and polishing metals and glass. Nos. 131,100–101; May 4; v. 274; p. 196.
Emerson Shoe Company, The, Rockland, Mass. Leather boots and shoes. Nos. 130,711–13; May 4; v. 274; p. 184.
Emery Food Co., Chicago, Ill. Canned fruits and vegetables. No. 131,103; May 4; v. 274; p. 196.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 131,104; May 4; v. 274; p. 196.
Enterprise Manufacturing Company, Atlanta, Ga. Middy-blouses and dresses for children, misses, and ladies. No. 131,102; May 4; v. 274; p. 196.
Estelle Company, The, Chicago, Ill. Dresses. No. 130,715; May 4; v. 274; p. 184.
Estes, E. B., & Sons, New York, N. Y. Worsted-winders. No. 131,105; May 4; v. 274; p. 196.
Evans Coal Company, The, Fort Wayne, Ind. Bituminous coal. No. 130,716; May 4; v. 274; p. 184.
Evans, John R., & Company, Philadelphia, Pa. Leather. No. 131,107; May 4; v. 274; p. 196.
Everett, Aughenbaugh & Co., Waseca, Minn. Bread. No. 131,108. May 4; v. 274; p. 196.
Fabian Hedges, Inc., New York, N. Y. Mallow topping for ice-cream, desserts, &c. No. 131,135; May 4; v. 274; p. 197.
Fafnir Bearing Co., New Britain, Conn. Antifriction-bearings, antifriction-bearing hanger-boxes, balls, and rollers, cages, &c. No. 131,109; May 4; v. 274; p. 196.
Faw, J. H., Inc., New York, N. Y. Wrenches. No. 130,717; May 4; v. 274; p. 184.
Federal Mfg. Co., Lynn, Mass. Solder. No. 130,718; May 4; v. 274; p. 184.
Feuser, Conrad, Bloomfield, N. J. Radiator-valves and radiator check-valves. No. 131,110; May 4; v. 274; p. 196.
Firestone Tire and Rubber Company, The, Akron, Ohio. Boots, overshoes, pacs, &c. No. 130,720; May 4; v. 274; p. 184.
Fleckenstein, C. G., Co., Muskegon, Mich. Leather soles and heels. No. 131,111; May 4; v. 274; p. 196.
Foot, Schulze & Co., St. Paul, Minn. Men's leather boots and shoes. No. 131,112; May 4; v. 274; p. 196.
Force Air Pump Company, Jefferson, Iowa. Automobile-tire pumps. No. 130,721; May 4; v. 274; p. 185.
Ford, Gertrude H., Tea Company, New York, N. Y. Teas. No. 130,722; May 4; v. 274; p. 185.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 130,723; May 4; v. 274; p. 185.
Fortner, William A., Cisco, Tex. Knockdown buildings. No. 131,113; May 4; v. 274; p. 196.
Fresno Brewing Co., Fresno, Calif. Ice-cream and ices. No. 130,724; May 4; v. 274; p. 185.
Froes, Arsenio Jose, & Company, Inc., New York, N. Y. Table covers, napkins, table and bureau scarfs, handkerchiefs. No. 130,626; May 4; v. 274; p. 182.

Fuerst & Kraemer, Ltd., New Orleans, La. Candies. No. 131,114; May 4; v. 274; p. 196.
Galbraith Milling Company, Mount Morris, N. Y. Wheat-flour. No. 130,725; May 4; v. 274; p. 185.
Gambrill, C. A., Manuf'g Company, Baltimore, Md. Self-rising wheat-flour. No. 130,726; May 4; v. 274; p. 185.
Gareau, Charles A., Detroit, Mich. Sheltering-troughs for protecting coils on automobiles. No. 131,115; May 4; v. 274; p. 196.
Garland Milling Company, Greenburg, Ind. Self-rising flour. No. 130,727; May 4; v. 274; p. 185.
Gernert, Earle, Billings, Mont. Canned vegetables. No. 130,729; May 4; v. 274; p. 185.
General Illuminating Co., New York, N. Y. Electrical flash-lights. No. 130,728; May 4; v. 274; p. 185.
General Insulating & Manufacturing Company, St. Louis, Mo., and Alexandria, Ind. Construction material. No. 131,116; May 4; v. 274; p. 196.
General Top Company, The, Cleveland, Ohio. Permanent tops for vehicles. No. 131,117; May 4; v. 274; p. 196.
Gesell, Frank A., Los Angeles, Calif. Bank-deposit account-books. No. 130,730; May 4; v. 274; p. 185.
Giavi, Francis N., New York, N. Y. Olive-oil. No. 130,731; May 4; v. 274; p. 185.
Gibbs Preserving Co., Baltimore, Md Pure fruit jams. No. 130,732; May 4; v. 274; p. 185.
Gilbert, John O., Jackson, Mich. Candy. No. 131,118; May 4; v. 274; p. 196.
Gilbert Paper Company, Menasha, Wis. Bond-paper. No. 131,120; May 4; v. 274; p. 196.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 131,119; May 4; v. 274; p. 196.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 131,121; May 4; v. 274; p. 197.
Given, John M., Inc., New York, N. Y., Chicago, Ill., and Pittsburgh, Pa. Children's hosiery. No. 131,122; May 4; v. 274; p. 197.
Given, John M., Inc., Pittsburgh, Pa., and New York, N. Y. Hosiery. No. 130,733; May 4; v. 274; p. 185.
Glacier Products Company, Kalispell, Mont. Malt and corn syrup. No. 130,734; May 4; v. 274; p. 185.
Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 131,123; May 4; v. 274; p. 197.
Goldman, Wm. P., & Bros. Inc., New York, N. Y. Men's and youths' suits and overcoats. No. 131,124; May 4; v. 274; p. 197.
Graceline Manufacturing Company, Seattle, Wash. Ladies' silk underwear. No. 130,735; May 4; v. 274; p. 185.
Grand Union Tea Co., Brooklyn, N. Y. Tea. No. 130,736; May 4; v. 274; p. 185.
Grand Union Tea Co., Brooklyn, N. Y. Spaghetti and macaroni. No. 131,126; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Stove-polish. No. 131,127; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Toilet and laundry soap. No. 131,128; May 4; v. 274; p. 197.
Grant, Robert, New York, N. Y. Steel. No. 130,737; May 4; v. 274; p. 185.
Gray Tractor Company, Inc., Minneapolis, Minn. Farm-tractors. No. 130,738; May 4; v. 274; p. 185.
Grewe, Alexander, New York, N. Y. Candy. No. 130,739; May 4; v. 274; p. 185.
Griswold Manufacturing Company, The, Erie, Pa. Aluminum and iron cooking utensils. No. 130,740; May 4; v. 274; p. 185.
Gross, J. B., Corporation, New York, N. Y. Condensed milk. No. 130,741; May 4; v. 274; p. 185.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. Nos. 131,129–30; May 4; v. 274; p. 197.
Hagopian, Seraphen G., Chicago, Ill. Ice-cream cones. No. 130,742; May 4; v. 274; p. 185.
Hale Company, The, San Francisco, Calif. Canned fruits, &c. No. 131,131; May 4; v. 274; p. 197.
Haller Baking Company, Pittsburgh, Pa. Bread. No. 130,743; May 4; v. 274; p. 185.
Haller Baking Company, Pittsburgh, Pa. Bread, cakes, and pastry. No. 131,132; May 4; v. 274; p. 197.
Happ Brothers Co., Macon, Ga. Overalls and jackets. No. 130,744; May 4; v. 274; p. 185.
Harrold Tool & Forge Co., The, Columbiana, Ohio. Tools. No. 131,133; May 4; v. 274; p. 197.
Hartman Company, Chicago, Ill. Hog-waterers of the nature of tanks, serving as a water-supply. No. 130,745; May 4; v. 274; p. 185.
Hastings, Henry M., San Francisco, Calif. Printed forms for estimates of printing-work. No. 130,747; May 4; v. 274; p. 185.
Hathaway, C. F., & Sons, North Cambridge, Mass. Bread. No. 130,748; v. 274; p. 185.
Hays, Levi & Co., New York, N. Y. Men's suits. No. 131,134; May 4; v. 274; p. 197.
Heller Leather Co., Milwaukee, Wis. Leather gloves. No. 130,750; May 4; v. 274; p. 185.
Hensch Food Company, Cleveland, Ohio. Foods for infants, invalids, and convalescents. No. 131,136; May 4; v. 274; p. 197.
Herkimer Fibre Company, The, Herkimer, N. Y. Manufactured leather board. No. 130,749; May 4; v. 274; p. 185.
Heroux, Frederick A., Oakland, Calif. Bread. No. 131,137; May 4; v. 274; p. 197.
Hezel Milling Company, East St. Louis, Ill. Self-rising wheat-flour. No. 131,138; May 4; v. 274; p. 197.
Hinkley, Albert, Newark, N. J. Stove-polish. No. 131,139; May 4; v. 274; p. 197.
Hirsch, Friedman Co., Chicago, Ill. Garments for men and boys. No. 131,140; May 4; v. 274; p. 197.
Hirsch-Mirviss Mfg. Co., Minneapolis, Minn. Overalls, work coats, shirts, and trousers. No. 130,751; May 4; v. 274; p. 185.
Homan-Hughes Company, Cincinnati, Ohio. Women's leather shoes. No. 130,757; May 4; v. 274; p. 186.
Hornor-Gaylord Company, Clarksburg, W. Va. Wheat-flour. No. 131,141; May 4; v. 274; p. 197.
Hooven & Allison Company, Xenia, Ohio. Fiber ropes and twines. Nos. 130,752–5; May 4; v. 274; p. 185.
Hoover Suction Sweeper Company, New Berlin, Ohio. Electric suction-sweepers. No. 130,756; May 4; v. 274; p. 186.
Howes, S., Co., Inc., Silver Creek, N. Y. Machinery for certain named purposes. No. 130,758; May 4; v. 274; p. 186.
Hubbell, Harvey, Incorporated, Bridgeport, Conn. Electrical lighting and wiring fixtures. No. 130,746; May 4; v. 274; p. 185.
Huth & Co., New York, N. Y. Cutlery. No. 130,759; May 4; v. 274; p. 186.
Ideal Roller Company, Chicago, Ill. Rollers for certain named machines. No. 130,760; May 4; v. 274; p. 186.
Indiana Board & Filler Company, Decatur, Ind. Egg-cases, egg-case fillers, cushion-fillers, &c. No. 130,761; May 4; v. 274; p. 186.
Individual Drinking Cup Company, Inc., New York, N. Y. Catamenial bandages. No. 130,762; May 4; v. 274; p. 186.
International Button Co., Rochester, N. Y. Buttons. No. 130,763; May 4; v. 274; p. 186.
International Carbon Products Company, New York, N. Y. Flake graphite. No. 130,764; May 4; v. 274; p. 186.
International Cork Company, Brooklyn, N. Y. Cork. No. 130,765; May 4; v. 274; p. 186.
International Corset Company, Aurora, Ill. Corsets. No. 131,142; May 4; v. 274; p. 197.
International Duplex Coat Co., Inc., New York, N. Y. Reversible leather coat. No. 130,766; May 4; v. 274; p. 186.
Jacobs, Albert, Company, New York, N. Y. Job and delivery tags. No. 131,143; May 4; v. 274; p. 197.
Janney & Burroughs, Inc., Philadelphia, Pa. Sole-leather. No. 130,767; May 4; v. 274; p. 186.
Johnson, Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. No. 131,144; May 4; v. 274; p. 197.
Johnston Dry Goods Co., Birmingham, Ala. Hosiery, men's collars, dress-shirts, &c. No. 130,768; May 4; v. 274; p. 186.
Just Shoe Company, The, West Alhambra, Calif. Children's and misses' leather, canvas, and felt shoes and slippers. No. 131,145; May 4; v. 274; p. 197.
Kahan, Gabriel, Lowell, Mass. Food paste to be used in a manner similar to butter. No. 131,146; May 4; v. 274; p. 197.
Kamenstein, Myer, New York and Brooklyn, N. Y. Ash, garbage, and oil cans. No. 130,769; May 4; v. 274; p. 186.
Kappas, Evaggelos, St. Louis, Mo. Candy. No. 131,106; May 4; v. 274; p. 196.
Karalun, Melcon A., New York, N. Y. Petticoats and bloomers. No. 130,770; May 4; v. 274; p. 186.
Kaut, Wm., Footwear Company, Carthage, Mo. Leather boots and shoes. No. 131,147; May 4; v. 274; p 197.
Kaut, Wm., Footwear Company, Carthage, Mo. Boots and shoes made of leather. Nos. 130,771–4; May 4; v. 274; p. 186.
Kaut, Wm., Footwear Co., Carthage, Mo. Leather boots, shoes, slippers, and sandals. No. 131,148; May 4; v. 274; p. 197.
Kayser, Julius, & Co., New York, N. Y. Short narrow strips of fabric for use as trimmings for underwear. No. 131,149; May 4; v. 274; p. 197.
Keebler Weyl Baking Co., Philadelphia, Pa. Bread, rolls, cakes, pies, &c. No. 130,775; May 4; v. 274; p. 186.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 130,776; May 4; v. 274; p. 186.
Kellogg Seed Co., Milwaukee, Wis. Field and grass seeds. No. 131,150; May 4; v. 274; p. 197.
Kelly-Springfield Motor Truck Company, The, Springfield, Ohio. Automobile-trucks. Nos. 131,151–2; May 4; v. 274; p. 197.
Kenosha Wheel & Axle Company, Kenosha, Wis. Cast metal vehicle-wheels. No. 131,153; May 4; v. 274; p. 197.
Keppel, R. F., & Bro, Lancaster, Pa. Candies. No. 130,777; May 4; v. 274; p. 186.
Kiddie Kover Manufacturing Company, Detroit, Mich. Children's suits and rompers. No. 130,778; May 4; v. 274; p. 186.
King Coal Company, San Francisco, Calif. Coal. No. 130,779; May 4; v. 274; p. 186.
Kinney Bros, Inc., Binghamton, N. Y. Evaporated milk. No. 131,154; May 4; v. 274; p. 198.
Klema, Joseph W., Austin, Minn. Lanterns. No. 131,155; May 4; v. 274; p. 198.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 131,156–8; May 4; v. 274; p. 198.
Kohlman, Chas., Co., Inc., New York, N. Y. Cotton piece goods. No. 131,159; May 4; v. 274; p. 198.
Kohn, Louis, Bradford, Pa. Overalls and shop-coats. No. 131,160; May 4; v. 274; p. 198.
Kohnstamm, H., & Co., New York, N. Y. Flavoring extracts for foods. No. 130,780; May 4; v. 274; p. 186.

Kohnstamm, H., & Co., New York, N. Y. Flavoring extracts for foods. No. 131,161; May 4; v. 274; p. 198.
Kokomar Company, Cleveland, Ohio. Oleomargarin. No. 130,781; May 4; v. 274; p. 186.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Railway appliances and parts thereof. No. 130,783; May 4; v. 274; p. 186.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Welded and riveted pipe, railway-spikes, &c. No. 130,782; May 4; v. 274; p. 186.
Kops Bros., New York, N. Y. Corsets and brassières. No. 130,784; May 4; v. 274; p. 186.
Krause, Chas. A., Milling Co., Greenfield, Wis. Stock-feed. No. 130,785; May 4; v. 274; p. 186.
Krenning-Schlapps Crocer Company, St. Louis, Mo. Clothestlines. No. 130,786; May 4; v. 274; p. 186.
Ktenaveas, Stratos D., Washington, D. C. Preparation that destroys dandruff, stops falling out of hair, &c. No. 130,787; May 4; v. 274; p. 186.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 131,162; May 4; v. 274; p. 198.
Kux Brothers, Cleveland, Ohio. Women's suits, dresses, and skirts. No. 130,788; May 4; v. 274; p. 187.
L. A. Sea Food Packing Co., East San Pedro, Calif. Canned fish. No. 130,911; May 4; v. 274; p. 190.
L. A. Sea Food Packing Co., East San Pedro, Calif. Canned fish. No. 131,174; May 4; v. 274; p. 198.
Lafferty, Herbert D., Oakland, Calif. Toy vehicles of the coaster type. No. 131,009; May 4; v. 274; p. 193.
La Monte, George, & Son, Nutley, N. J., and New York, N. Y. Safety-paper. No. 131,010; May 4; v. 274; p. 193.
Lane, Willey B., Chicago, Ill. Ratchet-wrenches. No. 130,995; May 4; v. 274; p. 193.
Langenberg Hat Company, St. Louis, Mo. Men's and boys' caps and hats. No. 131,011; May 4; v. 274; p. 198.
Larson, L. P., Jr., Company, Chicago, Ill. Confection. No. 130,789; May 4; v. 274; p. 187.
Laundry Supplies Corporation, Richmond, Va. Preparation for cleansing purposes. No. 131,163; May 4; v. 274; p. 198.
Lawrence Canning Co., Rockland, Me. Canned fish. No. 130,790; May 4; v. 274; p. 187.
Lawson, Robert, & Sons, Philadelphia, Pa. Trousers. No. 130,791; May 4; v. 274; p. 187.
Lee, H. D., Mercantile Co., Salina, Kans., and Kansas City, Mo. Wearing-apparel. No. 130,792; May 4; v. 274; p. 187.
Leggett, Francis H., & Co., New York, N. Y. Cigars. No. 130,793; May 4; v. 274; p. 187.
Lehman Brothers, Inc., Easton, Pa. Ladies' silk and cotton woven underwear. No. 131,164; May 4; v. 274; p. 198.
Leopold Solomon and Eisendrath, Chicago, Ill. Men's and boys' suits, vests, trousers, and overcoats. No. 131,165; May 4; v. 274; p. 198.
Levy & Fish, New York, N. Y. Table and shelf oil-cloths, enameled cloth. No. 131,168; May 4; v. 274; p. 198.
Levy, B. H., Bro. & Co., Savannah, Ga. Boys' suits and overcoats. No. 131,166; May 4; v. 274; p. 198.
Levy, B. H., Bro. & Co., Savannah, Ga. Men's suits and overcoats. No. 130,794; May 4; v. 274; p. 187.
Levy, Lewis, Philadelphia, Pa. Dresses. No. 131,167; May 4; v. 274; p. 198.
Lewis Manufacturing Company, Walpole, Mass. Sanitary napkins. No. 130,795; May 4; v. 274; p. 187.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarette-paper. No. 130,796; May 4; v. 274; p. 187.
Limpert Bros., Inc., New York, N. Y. An extract having a maple flavor. No. 130,797; May 4; v. 274; p. 187.
Lindner, David J., New York, N. Y. Chamois-skins and sponges. No. 131,169; May 4; v. 274; p. 198.
Linehan-Conover Company, Worcester, Mass. Corsets, corset-waists, and brassières. No. 131,170; May 4; v. 274; p. 198.
Lion Manufacturing Company, Omaha, Nebr. Suspenders, waist-belts, garters, &c. No. 131,171; May 4; v. 274; p. 198.
Little, A. E., Company, Lynn, Mass. Boots, shoes, leggings, or puttees. No. 131,172; May 4; v. 274; p. 198.
Locke Shoe Co., Wheeling, W. Va. Leather boots and shoes. No. 130,798; May 4; v. 274; p. 187.
Loos, Reinhold, Newark, N. J. Rope-clamp. No. 131,173; May 4; v. 274; p. 198.
Louis Brun Fils, Arre, France. Stockings and socks. Nos. 130,659–60; May 4; v. 274; p. 183.
Lovsted, Carl M., Seattle, Wash. Electric steam alarm-whistles. No. 130,799; May 4; v. 274; p. 187.
Lowney, Walter M., Company, The, Boston, Mass. Candy. No. 130,800; May 4; v. 274; p. 187.
Lowney, Walter M., Company, The, Boston, Mass. Candy. Nos. 131,175–7; May 4; v. 274; p. 198.
Lummus Cotton Gin Company, Columbus, Ga. Machinery. No. 131,178; May 4; v. 274; p. 198.
Lynard, John, Owatonna, Minn. Eggs, poultry, and butter. No. 130,801; May 4; v. 274; p. 187.
Lynchburg Foundry Company, Lynchburg, Va. Plows and parts thereof. No. 130,802; May 4; v. 274; p. 189.
M-C Syndicate, Philadelphia, Pa. Articles on current events for children. No. 131,186; May 4; v. 274; p. 198.
McCormick & Co., Baltimore, Md. Extracts and flavors. No. 130,803; May 4; v. 274; p. 187.
McDowell, Pyle & Co., Inc., Baltimore, Md. Candies. No. 130,804; May 4; v. 274; p. 187.
McIntosh Battery and Optical Co., Chicago, Ill. Apparatus for generating, &c., electric current for therapeutic purposes. No. 130,805; May 4; v. 274; p. 187.
McIntosh Battery & Optical Co., Chicago, Ill. Electrode-pads. No. 130,806. May 4; v. 274; p. 187.
McIntosh, Norman S., Detroit, Mich. Cleaning compound for the hands. No. 131,179; May 4; v. 274; p. 198.
McKenna, Marguerite C., New York, N. Y. Combination of sugar and cinnamon. No. 130,807; May 4; v. 274; p. 187.
McLane Silk Company, Turners Falls, Mass. Silk and satin piece goods. No. 131,180; May 4; v. 274; p. 198.
MacKellar's, R., Sons Co., Peekskill, N. Y. Charcoal. No. 131,181; May 4; v. 274; p. 198.
Mahan, Cyril C., Baltimore, Md. Candy. No. 130,808; May 4; v. 274; p. 187.
Majestic Electric Development Co., San Francisco, Calif. Electric air, water, and immersion heaters. No. 130,809; May 4; v. 274; p. 187.
Malone, Lawrence T., San Antonio, Tex. Taffy and cream candy. No. 130,822; May 4; v. 274; p. 188.
Malone, Lawrence T., San Antonio, Tex. Chocolate-coated candy. No. 130,823; May 4; v. 274; p. 188.
Malott, H. F., Shoe Co., Chicago, Ill. Boys' and girls' shoes made wholly or in part of leather. No. 130,810; May 4; v. 274; p. 187.
Malouf, Abraham M., New York, N. Y. Hats, caps, mackinaws, dresses, &c. No. 130,811; May 4; v. 274; p. 178.
Marathon Shoe Co., Wausau, Wis. Shoes. No. 130,812; May 4; v. 274; p. 187.
Marathon Tire and Rubber Co., Cuyahoga Falls, Ohio. Imitation leather. No. 131,182; May 4; v. 274; p. 198.
Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber composition soles, half-soles, and heels. Nos. 130824–5; May 4; v. 274; p. 188.
Marcelino Perez & Co., New York, N. Y. Cigars. No. 130,813; May 4; v. 274; p. 187.
Marfleet, Gerald J., Rock Falls, Ill. Moving-picture films. No. 130,826; May 4; v. 270; p. 188.
Margolis, Jacob H., Dayton, Ohio. Coats, vests, trousers. No. 130,814; May 4; v. 274; p. 187.
Marmon Chicago Company, Chicago, Ill. Self-contained electric power-generating and lighting plants. No. 130,827; May 4; v. 274; p. 188.
Marquetand, Theodore, Philadelphia, Pa. Candy. No. 131,184; May 4; v. 274; p. 198.
Marshall Field & Company, Chicago, Ill. Grain-bags. No. 130,816; May 4; v. 274; p. 187.
Marshall Field Company, Chicago, Ill. Sleeping-garments. No. 130,815; May 4; v. 274; p. 187.
Marx, Louis E., Huntington, Ind. Hair-curler. No. 131,185; May 4; v. 274; p. 198.
Mason, An & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 130,817; May 4; v. 274; p. 187.
Mason City Candy Co., Mason City, Iowa. Candies. No. 130,818; May 4; v. 274; p. 187.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 130,819; May 4; v. 274; p. 187.
Massey-Harris Harvester Co., Inc., Batavia, N. Y. Mowers, self-raking reapers, hay-tedders, &c. No. 130,820; May 4; v. 274; p. 187.
Maurer, Oscar E., San Francisco, Calif. Malt syrup for baking purposes. No. 131,183; May 4; v. 274; p. 198.
Maurice Company, The, Cleveland, Ohio. Milk-chocolates. No. 130,821; May 4; v. 274; p. 188.
Mayhew Steel Products, Inc., New York, N. Y. Mechanics' hand-tools. No. 130,828; May 4; v. 274; p. 188.
Megler, Nellie E., Brookfield, Wash. Fish, fresh, canned, or cured, particularly shad-cutlets and shad-roe in cans. No. 131,187; May 4; v. 274; p. 198.
Mentzer, John P., Chicago, Ill. Dry storage batteries. No. 130,829; May 4; v. 274; p. 188.
Mero Mills, Nashville, Tenn. Wheat-flour. No. 131,188; May 4; v. 274; p. 199.
Merritt, Stephen, New York, N. Y. Coffins, caskets, rough boxes. No. 130,830; May 4; v. 274; p. 188.
Metalwood Manufacturing Co., Detroit, Mich. Hydraulic machinery and equipment. No. 130,831; May 4; v. 274; p. 188.
Mewhinney, A. B., Co., Terre Haute, Ind. Candy. No. 131,189; May 4; v. 274; p. 199.
Mewhinney, A. B., Co. Inc., Terre Haute, Ind. Chocolate candies. No. 131,190; May 4; v. 274; p. 199.
Meyer, Milton J., & Co., Inc., New York, N. Y. Leather shoes. No. 130,832; May 4; v. 274; p. 188.
Miller, J. E., Chicago, Ill. Glass-cutters. No. 130,833; May 4; v. 274; p. 188.
Millichamp, F. Stanley, Wapato, Wash. Fresh apples. No. 130,929; May 4; v. 274; p. 191.
Millman, Abe, New York, N. Y. Infants' and children's dresses. No. 130,834; May 4; v. 274; p. 188.
Minnesota Stove Co., Minneapolis, Minn. Porcelain-enamel-coated metal sheets, plates, and angle-pieces. No. 131,191; May 4; v. 274; p. 199.
Morgan Crucible Compy., Ld., Battersea, London, England. Brushes for dynamos and electric motors. No. 131,192; May 4; v. 274; p. 199.
Morrell, John, & Co., Ottumwa, Iowa. Eggs. No. 130,835; May 4; v. 274; p. 188.
Morrison, John, Jr., Glens Falls, N. Y. Hair and clothes brushes, shoe brushes and daubers. No. 130,836; May 4; v. 274; p. 188.

Mt. Ida Packing Company, Oroville, Calif. Pickled olives. No. 131,193; May 4; v. 274; p. 199.
Music Table Company, The, Greenfield, Ohio. Phonographs. No. 130,837; May 4; v. 274; p. 188.
N. & S. Engine Co., Seattle, Wash. Internal-combustion engines, &c. No. 130,714; May 4; v. 274; p. 184.
Nash Engineering Co., South Norwalk, Conn. Relief and ball float valves for machinery. No. 130,838; May 4; v. 274; p. 188.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 130,839; May 4; v. 274; p. 188.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 131,194; May 4; v. 274; p. 199.
Nashua Manufg. Company, Nashua, N. H. Cotton blankets. Nos. 131,195–6; May 4; v. 274; p. 199.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 131,197; May 4; v. 274; p. 199.
National Fruit Flavor Co., New Orleans, La. Flavoring extracts for food. No. 130,840; May 4; v. 274; p. 188.
National Grave Vault Company, Galion, Ohio. Gravevaults. No. 130,841; May 4; v. 274; p. 188.
National Mills, Spartanburg, S. C. Hosiery. No. 131,198; May 4; v. 274; p. 199.
National Shirt Shops, Inc., New York, N. Y. Garments for men. No. 130,842; May 4; v. 274; p. 188.
National Transit Pump & Machine Company, Oil City, Pa. Steam-driven pumps, oil-engines, air-compressors, pipe-stocks, &c. No. 130,843; May 4; v. 274; p. 188.
Naumkeag Steam Cotton Co., Salem, Mass. Pillow-cases. No. 131,199; May 4; v. 274; p. 199.
Nebeling, Edmund R., New York, N. Y. Alloyed platinum. No. 130,844; May 4; v. 274; p. 188.
Nebraska Fountain & Supply Co., Omaha, Nebr. Topping for ice-cream sundaes and hot chocolate. No. 130,845; May 4; v. 274; p. 188.
Nevada Chemical Company, Philadelphia, Pa. Planttonic. No. 131,200; May 4; v. 274; p. 199.
New-Energy Appliance Company, Boston, Mass. Suspensory straps. No. 130,846; May 4; v. 274; p. 188.
New Jersey Foundry & Machine Co., Garwood, N. J., and New York, N. Y. Trolleys, cranes, tongs, and portable elevators. No. 130,848; May 4; v. 274; p. 188.
New York Pacific Commercial Co., Inc., San Francisco, Calif. Canned salmon. No. 130,849; May 4; v. 274; p. 188.
Newhall Chain Forge & Iron Co., New York, N. Y. Iron and steel chains and chain-slugs. No. 130,847; May 4; v. 274; p. 188.
Newman, William, Alexandria, Va. Shoe-polishing paste. No. 131,201; May 4; v. 274; p. 199.
Niven, Maxim, Chicago, Ill. Glass bottles. No. 130,850; May 4; v. 274; p. 188.
Noble Dairy Farms, Inc., New York, N. Y. Condensed milk. No. 131,202; May 4; v. 274; p. 199.
Nowlin, A. S., & Co., Lynchburg, Va. Coal. No. 130,851; May 4; v. 274; p. 188.
Nu-Way Strech Suspender Company, Adrian, Mich. Suspenders and garters. No. 131,203; May 4; v. 274; p. 199.
Nulomoline Company, The, New York, N. Y. Table-syrups. No. 130,852; May 4; v. 274; p. 188.
Oneida Community Limited, Oneida, N. Y. Plated flatware. No. 131 204; May 4; v. 274; p. 199.
Osmundson, Chris, Webster City, Iowa. Spades, shovels. No. 130,854; May 4; v. 274; p. 188.
Otis Co., Ware and Three Rivers, Mass. Cotton piece goods. No. 130,853; May 4; v. 274; p. 189.
Oversmith, Clarence D., Davenport, Iowa. Electric advertising display apparatus. No. 130,856; May 4; v. 274; p. 189.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece and cotton dress goods. No. 131,205; May 4; v. 274; p. 199.
Pacific Novelty Company, New York, N. Y. Dolls. No. 130,857; May 4; v. 274; p. 189.
Page, Leonard G., St. Joseph, Mo. Mixture which comprises chilli peppers, comino, &c. No. 130,858; May 4; v. 274; p. 189.
Palnut Corporation, Buffalo, N. Y. Nut-locks. No. 130,860; May 4; v. 274; p. 189.
Parisian Mfg. Company, Philadelphia, Pa. Hair-wavers. No. 131,206; May 4; v. 274; p. 199.
Parsons Chemical Works, Grand Ledge, Mich. Medicated food for live stock. No. 130,861; May 4; v. 274; p. 189.
Peerless Mineral Products Co., Inc., New York, N. Y. Soap. No. 131,207; May 4; v. 274; p. 199.
Peerless Motor Car Company, The, Cleveland, Ohio. Automobiles and motor-trucks. No. 130,862; May 4; v. 274; p. 189.
Peet Bros. Manufacturing Company, Kansas City, Kans. Soap. No. 131,208; May 4; v. 274; p. 199.
Pennsylvania Lawn Mower Works. (See Braun, John & Sons, assignors.)
Perkins Dry Goods Company, Dallas, Tex. Work-Clothing for men and boys. No. 131,209; May 4; v. 274; p. 199.
Peters Manufacturing Co., Boston, Mass. Shoe fabrics. No. 130,863; May 4; v. 274; p. 189.
Philadelphia Malt Extract Company, Philadelphia, Pa. Bakers' and confectioners' syrup. No. 131,210; May 4; v. 274; p. 199.
Philadelphia Roll & Machine Company, Philadelphia, Pa. Castings, forgings, and rolled products of iron and steel. No. 130,864; May 4; v. 274; p. 189.
Philadelphia Roll & Machine Company, Philadelphia, Pa. Alloy rolls for rolling-mills, &c. No. 130,865; May 4; v. 274; p. 189.
Phillips-Doscher Corporation, New York, N. Y. Knitted undershirts and union-suits for women. No. 131,211; May 4; v. 274; p. 199.
Piedmont Motor Car Company, Inc., Lynchburg, Va. Passenger-automobiles and motor-trucks. No. 131,212; May 4; v. 274; p. 199.
Pinder, Walter J., Orlando, Fla. Cigars and cigarettes. No. 130,866; May 4; v. 274; p. 189.
Pitard's, Inc., New Orleans, La. Tools. No. 131,213; May 4; v. 274; p. 199.
Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 130,867; May 4; v. 274; p. 189.
Poage, R. C., Milling Co., Ashland, Ky. Flour. No. 131,214; May 4; v. 274; p. 199.
Polonia Phonograph Co., Inc., New York, N. Y. Phonographs, mechanical motors for same, record-needles, &c. No. 130,868; May 4; v. 274; p. 189.
Power Manufacturing Company, Marion, Ohio. Gas-engines. No. 131,215; May 4; v. 274; p. 199.
Pratt Bread Company, Boston, Mass. Bread. No. 130,869; May 4; v. 274; p. 189.
Pratt & Whitney Company, New York, N. Y. Dimension-gages and attachments therefor. No. 130,870; May 4; v. 274; p. 189.
Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. No. 130,871; May 4; v. 274; p. 189.
Procter and Gamble Company, The, Cincinnati, Ohio. Refined candle-tar for roofing compositions. No. 131,216; May 4; v. 274; p. 199.
Pyro Products Company, Chicago, Ill. Fire-brick. No. 130,872; May 4; v. 274; p. 189.
Raab, Charles, Philadelphia, Pa. Ladies' blouses and shirt-waists. No. 130,873; May 4; v. 274; p. 189.
Rafael del Castillo & Co., New York, N. Y. Wheat-flour. No. 130,668; May 4; v. 274; p. 182.
Ray & Frazier, Florence, S. C. Non-alcoholic beverages. No. 130,889; May 4; v. 274; p. 190.
Record Card Co., New York, N. Y. Filing-cards. No. 130,874; May 4; v. 274; p. 189.
Reid Bros., Inc., San Francisco, Calif., and Seattle, Wash. Measuring and scientific appliances. No. 130,875; May 4; v. 274; p. 189.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 130,876; May 4; v. 274; p. 189.
Reliance Wheel Co., Youngstown, Ohio. Pressed-steel disk wheels for automobiles and aeroplanes. No. 130,890; May 4; v. 274; p. 190.
Renaker, Leon, Winchester, Ky. Eggs. No. 131,218; May 4; v. 274; p. 199.
Retail Grocers Syndicate, Inc., Worcester, Mass. Foods and ingredients of foods. No. 131,217; May 4; v. 274; p. 199.
Reversible Collar Company, Boston and Cambridge, Mass. Collars, cuffs, bosoms. No. 131,219; May 4; v. 274; p. 199.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Smoking and chewing tobacco. No. 130,879; May 4; v. 274; p. 189.
Reynolds, Wm. T., & Co., Poughkeepsie, N. Y. Butter, olive-oil, rice, dried fruits, coffee. No. 130,877; May 4; v. 274; p. 189.
Reznikove, Abraham, Sharon, Pa. Bread. No. 130,878; May 4; v. 274; p. 189.
Rhoads, Edwin K., Philadelphia, Pa. Bedspreads, sheets, pillow-cases, sheeting. No. 131,220; May 4; v. 274; p. 199.
Rice & Hutchins, Incorporated, Boston, Mass. Boots, shoes, and slippers. No. 130,880; May 4; v. 274; p. 189.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton drills in the piece. No. 131,221; May 4; v. 274; p. 200.
Rice-Stix Dry Goods Company, St. Louis, Mo. Suspenders, garters, hose-supporters, &c. No. 130,881; May 4; v. 274; p. 189.
Richards & Brennan Co., Randolph, Mass. Boots and shoes. No. 130,882; May 4; v. 274; p. 189.
Richardson Silk Co., Chicago, Ill. Silk threads, cotton yarns and threads. No. 131,222; May 4; v. 274; p. 200.
Ridgway, Herbert N., Revere, Mass. Amusement devices. No. 130,883; May 4; v. 274; p. 189.
Ripley, Edward, & Son, Ltd., Bradford, England. Raincoats. No. 130,884; May 4; v. 274; p. 189.
Ritter Brothers, New York, N. Y. Ladies' coats and suits. No. 130,885; May 4; v. 274; p. 189.
Ritter Hosiery Company, Fleetwood, Pa. Men's hosiery. No. 130,886; May 4; v. 274; p. 189.
Riverside Boiler Works, Inc., Cambridgeport, Mass. Tanks and tanks for hot water. Nos. 130,887–8; May 4; v. 274; pp.189–90.
Roanoke City Mills, Roanoke, Va. Self-rising wheat-flour. No. 130,892; May 4; v. 274; p. 190.
Roanoke City Mills, Roanoke, Va. Wheat-flour. No. 130,891; May 4; v. 274; p. 190.
Robinson, George T., South Portland, Me. Puzzles. No. 130,893; May 4; v. 274; p. 190.
Robinson Milling Co., The, Salina, Kans. Wheat-flour. No. 130,894; May 4; v. 274; p. 190.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 131,223–26; May 4; v. 274; p. 200.

Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 131,227; May 4; v. 274; p. 200.
Rothman, Eugene, New York, N. Y. Watches, clocks, alarm-clocks. No. 130,895; May 4; v. 274; p. 190.
Roulston, Thos., Inc., Brooklyn, N. Y. Bread. No. 130,896; May 4; v. 274; p. 190.
Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Artificial-silk fabrics. No. 131,228; May 4; v. 274; p. 200.
Rueckheim Bros. & Eckstein, Chicago, Ill. Chocolate candies. No. 130,897; May 4; v. 274; p. 190.
Ruff's, A., Sons, Butler, Pa. Boots and shoes. No. 130,898; May 4; v. 274; p. 190.
Ruggles, Frank W., Alma, Mich. Motor-trucks. No. 131,229; May 4; v. 274; p. 200.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 130,899; May 4; v. 274; p. 190.
Russell Jobbers' Mills, Oklahoma, Okla. Peanut-butter, vinegar, rice, &c. No. 131,230; May 4; v. 274; p. 200.
Russell, Thos., & Son, Liverpool England. Watches and clocks. No. 130,900; May 4; v. 274; p. 190.
S. & P. Manufacturing Co. Inc., New York, N. Y. Valve-grinding compounds. No. 131,231; May 4; v. 274; p. 200.
Safe-Cabinet & Company, The, Marietta, Ohio. Documentfiles. No. 130,901; May 4; v. 274; p. 190.
Samoset Chocolates Co., Boston, Mass. Candies. No. 130,902; May 4; v. 274; p. 190.
Samstag & Hilder Bros., New York, N. Y. Infants' pants. No. 130,903; May 4; v. 274; p. 190.
Samstag & Hilder Bros., New York, N. Y. Marcel and water waver. No. 131,232; May 4; v. 274; p. 200.
Sangoff, Peter, Worcester, Mass. Coats. No. 131,233; May 4; v. 274; p. 200.
Sanitary Phone Corporation, New York, N. Y. Sanitary protectors for telephone-transmitters. No. 130,904; May 4; v. 274; p. 190.
Sato, Genshiro, Seattle, Wash. Wooden toys. No. 130,905; May 4; v. 274; p. 190.
Schaefer, William H., New York, N. Y. Inhalers. No. 130,906; May 4; v. 274; p. 190.
Schiller, S. New York, N. Y. Women's, men's and children's hats. No. 130,907; May 4; v. 274; p. 190.
Schofield Oil Co., Inc., New York, N. Y. Soap. No. 131,234; May 4; v. 274; p. 200.
Schumacher, Frank M., New Orleans, La. Leather boots and shoes for men. No. 130,908; May 4; v. 274; p. 190.
Scientific Products Company, Steubenville, Ohio, and New Cumberland, W. Va. Electric warming-pads. No. 130,909; May 4; v. 274; p. 190.
Screencraft Pictures, Inc., New York, N. Y. Moving-picture films. No. 130,910; May 4; v. 274; p. 190.
Sears and Nichols Canning Company, Chillicothe, Ohio. Canned vegetables. No. 130,912; May 4; v. 274; p. 190.
Sears, Roebuck and Co., Chicago, Ill. Candy. Nos. 131,235–6; May 4; v. 274; p. 200.
Selz, Abraham, Chicago, Ill. Dry cleaner for fabrics and leather. No. 131,237; May 4; v. 274; p. 200.
Sheldon, George C., Nehawka, Nebr. Concrete-mixers. No. 130,913; May 4; v. 274; p. 190.
Shoe Hardware Company, The, Waterbury, Conn. Buckles. No. 130,914; May 4; v. 274; p. 190.
Shoup, Forest F., Brooklyn, N. Y. Coffee substitute. No. 130,915; May 4; v. 274; p. 190.
Shutter-Johnson Candy Co., Chicago, Ill. Candy. No. 130,916. May 4; v. 274; p. 190.
Silverman, Joseph, Baltimore, Md. Suspenders, garters, armbands, &c. No. 130,917; May 4; v. 274; p. 190.
Simmons Hardware Company, St. Louis, Mo. Watches. No. 130,918; May 4; v. 274; p. 190.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 130,919; May 4; v. 274; p. 190.
Singer, Philip A., & Bro., Newark, N. J. Dressed furs for use in apparel. No. 130,920; May 4; v. 274; p. 190.
Singer, Samuel A., Boston, Mass. Hosiery. No. 130,921; May 4; v. 274; p. 191.
Slatedale Knitting Mills, Harrisburg, Pa. Hose for men, women, and children. No. 130,922; May 4; v. 274; p. 191.
Slater & Morrill, Incorporated, South Braintree, Mass. Boots or shoes. No. 131,238; May 4; v. 274; p. 200.
Smart & Final Co., Santa Ana, Calif. Roasted coffee in packages. No. 130,923; May 4; v. 274; p. 191.
Smith, Lillian W., Cape Charles, Va. Fresh potatoes. No. 130,924; May 4; v. 274; p. 191.
Società Industrie Chimiche Ittiolo, Naples, Italy. Soaps for hygienic and medical purposes. No. 131,239; May 4; v. 274; p. 200.
Societe Anonyme La Bruyere, Par's, and St. Claude, France. Tobacco-pipes. No. 130,925; May 4; v. 274; p. 191.
Solace Comfort Service Corporation, New York, N. Y. Sanitary napkins. No. 130,926; May 4; v. 274; p. 191.
Southwest Cotton Company, Phoenix, Ariz. Baled cotton. No. 130,927; May 4; v. 274; p. 191.
Sparks Milling Company, Alton, Ill., and Terre Haute, Ind. Wheat-flour. No. 131,240; May 4; v. 274; p. 200.
Standard, O. L., Dry Goods Company, Huntington, W. Va. Knitted hosiery, underwear, and sweaters, work-shirts for men and boys. No. 131,241; May 4; v. 274; p. 200.
Standard Parts Company, The, Cleveland Ohio. Vehicle axles and springs. No. 130,928; May 4; v. 274; p. 191.
Sterling Products Company, Cleveland, Ohio. Construction material. No. 131,242; May 4; v. 274; p. 200.
Stern, Charles & Sons, Inc., Los Angeles, Calif. Canned fruits. No. 131,243; May 4; v. 274; p. 200.
Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. Nos. 130,930–1; May 4; v. 274; p. 191.
Stewart Motor Corporation, Buffalo, N. Y. Motor-trucks and passenger-automobiles. No. 130,932; May 4; v. 274; p. 191.
Stiles-Pellens Coffee Co., Cincinnati, Ohio. Tea, spices, cocoa, &c. No. 131,244; May 4; v. 274; p. 200.
Stokes Milling Co., Watertown, S. D. Wheat-flour. No. 130,933; May 4; v. 274; p. 191.
Stollwerck Brothers, Inc., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass. Chocolate and cocoa. No. 130,934; May 4; v. 274; p. 191.
Stout, Charles F., Rice Lake, Wis. Cigars. No. 130,935; May 4; v. 274; p. 191.
Strohmeyer & Arpe Company, New York, N. Y. Foods and ingredients of foods. No. 130,936; May 4; v. 274; p. 191.
Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 131,245; May 4; v. 274; p. 200.
Sunnyland Fruit Company, Inc., New York, N. Y. Candies. No. 130,938; May 4; v. 274; p. 191.
Swift and Company, Chicago, Ill. Hams, bacon, and shoulders. No. 130,940; May 4; v. 274; p. 191.
Tampa Dairy Co., Tampa, Fla. Ice-cream. No. 130,941; May 4; v. 174; p. 191.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 130,942; May 4; v. 174; p. 191.
Templar Motors Corporation, Cleveland, Ohio. Automobiles and motor-cars. No. 131,246; May 4; v. 274; p. 200.
Textile Products Manufacturing Company, St. Louis, Mo. Overalls, jumpers, and work-shirts. No. 130,943; May 4; v. 274; p. 191.
Thompson, Gwladys G., St. Louis, Mo. Negligées. No. 130,944; May 4; v. 274; p. 191.
Timmons, Charles S., Snow Hill, Md. Raw potatoes.. No. 130,945; May 4; v. 274; p. 191.
Toomay Company, Boston, Mass. Finished leather in the piece. No. 130,946; May 4; v. 274; p. 191.
Townsend, E. M., & Co., New York, N. Y. Hosiery. No. 130,947; May 4; v. 274; p. 191.
Traub, Lewis & Co., New York, N. Y. Veilings and nettings in the piece. No. 130,948; May 4; v. 274; p. 191.
Trifari & Krussman, Inc., New York, N. Y. Metal shoe-buckles, combs, hairpins. No. 130,950; May 4; v. 274; p. 191.
Turner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 131,247; May 4; v. 274; p. 200.
Turner, William G., Brooklyn, N. Y. Tooth-filling. No. 130,951; May 4; v. 274; p. 191.
Turney, John J., Philadelphia, Pa. Cigarettes. No. 130,952; May 4; v. 274; p. 191.
Ultramares Corporation, New York, N. Y. Flour. No. 131,248; May 4; v. 274; p. 200.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 130,953; May 4; v. 274; p. 191.
Union Steam Pump Company, Battle Creek, Mich. Machines for effecting emulsion and producing homogeneous and emulsified mixtures. No. 131,249; May 4; v. 274; p. 200.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 130,954; May 4; v. 274; p. 191.
Unique Novelty Co., Los Angeles, Calif., and Independence, Iowa. Planchette-boards. No. 130,955; May 4; v. 274; p. 191.
United Drug Company, Boston, Mass. Candy. No. 130,956; May 4; v. 274; p. 191.
United Engine & Manufacturing Co., Hanover, Pa. Engine-stands, portable cranes, &c. No. 130,957; May 4; v. 274; p. 192.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Household gloves, bathing-caps, &c. No. 131,251; May 4; v. 274; p. 200.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of leather. No. 131,250; May 4; v. 274; p. 200.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of rubber and canvas. No. 130,958; May 4; v. 274; p. 192.
United Trimming Co., New York, N. Y. Snap-fasteners. No. 130,959; May 4; v. 274; p. 192.
Universal Battery Company, Chicago, Ill. Isolated electric power-generating and lighting plants. No. 130,960; May 4; v. 274; p. 192.
Universal Merchandise Co., New York, N. Y. Hosiery. No. 130,962; May 4; v. 274; p. 192.
Universal Merchandise Company, New York, N. Y. Underwear. No. 130,961; May 4; v. 274; p. 192.
Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches used with dental handpieces for preparing cavities. No. 130,963; May 4; v. 274; p. 192.
Vacuum Oil Company, New York, N. Y. Emulsifying oil for leather. No. 131,252; May 4; v. 274; p. 201.
Van Camp Packing Company, The, Indianapolis, Ind. Evaporated milk. No. 130,964; May 4; v. 274; p. 192.
Van Landingham, Charles E., Los Angeles, Calif. Canned fruits. No. 131,254; May 4; v. 274; p. 201.
Van Noorden, E., & Co., Boston, Mass. Cowl-ventilators. No. 131,255; May 4; v. 274; p. 201.

Van Sand, Albert, New York, N. Y. Accountants' books for keeping accounts. No. 131,256; May 4; v. 274; p. 201.
Van Vleet Mansfield Drug Co., Memphis, Tenn. Remedy for diseases of the heart and nerves. No. 131,258; May 4; v. 274; p. 201.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Whiting used as a filler in rubber goods. No. 131,253; May 4; v. 274; p. 201.
Vehicle Top & Supply Company, St. Louis, Mo. Commercial motor-vehicle bodies. No. 131,259; May 4; v. 274; p. 201.
Vericel, Antoine, New York, N. Y. Perfume glass vial. No. 130,965; May 4; v. 274; p. 192.
Victory Sparkler Company, Elkton, Md. Sparklers. No. 130,966; May 4; v. 274; p. 192.
Virginia Overall & Shirt Corporation, The, Harrisonburg, Va., Dress and work coats, pants, drawers, &c. No 130,967; May 4; v. 274; p. 192.
Visible Spark Plug Co., Pittsburgh, Pa. Spark-plugs. No. 130,968; May 4; v. 274; p. 192.
Vivaudou, Victor, New York, N. Y. Candies. No. 130,969; May 4; v. 274; p. 192.
Voorhorst, J. Clarence, New York, N. Y. Egg cartons or cases. No. 130,970; May 4; v. 274; p. 192.
Vreeland Motor Co. Inc., Newark, N. J. Automobiles. No. 131,260; May 4; v. 274; p. 201.
Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 130,977; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 130,979; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. Nos. 130,975–6; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. No. 130,978; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. No. 130,980; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Notions. Nos. 131,262–3; May 4; v. 274; p. 201.
Waldes & Co., Prague, Bohemia. Placket-fasteners, glove-buttons, &c. Nos. 130,971–4; May 4; v. 274; p. 192.
Waldes & Co., Prague, Bohemia. Placket, glove, and snap fasteners, buttons, clasps, &c. No. 131,261; May 4; v. 274; p. 201.
Walla Walla Gardener's Association, Walla Walla, Wash. Fresh onions. No. 130,981; May 4; v. 274; p. 192.
Wallis Tractor Company, Racine, Wis. Tractors. No. 130,982; May 4; v. 274; p. 192.
Ward Baking Company, New York, N. Y. Bread. No. 131,264; May 4; v. 274; p. 201.
Ward, C. E., Company, The, New London, Conn. Overall-garments. No. 130,983; May 4; v. 274; p. 192.
Ward Motor Vehicle Company, Mount Vernon, N. Y. Automobiles. No. 130,984; May 4; v. 274; p. 192.
Warner Bros. Co., The, Bridgeport, Conn. Waterproof diaper-covers. No. 130,985; May 4; v. 274; p. 192.
Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 130,986; May 4; v. 274; p. 192.
Waterbury Jewel Company, Waterbury, Conn. Pipe-covers. No. 130,987; May 4; v. 274; p. 192.
Webster Electric Company, Racine, Wis. Ignition-magnetos. No. 131,265; May 4; v. 274; p. 201.
Weed, Howard W., Stamford, Conn. Awning in the nature of wind-shield protector. No. 131,266; May 4; v. 274; p. 201.
West, Jarold R., Denver, Colo. Cereal food. No. 131,267; May 4; v. 274; p. 201.
Western Bottle Mfg. Co., Chicago, Ill. Writing-paper. No. 130,988; May 4; v. 274; p. 192.
Western Electric Company Incorporated, New York, N. Y. Electrical massaging-machines. No. 130,989; May 4; v. 274; p. 192.
Western Grocer Company, Oskaloosa and Marshalltown, Iowa. Foods and ingredients of foods. No. 131,268; May 4; v. 274; p. 201.
White, Louis P., Philadelphia, Pa. Clocks and watches. No. 130,991; May 4; v. 274; p. 193.
White Stokes Co. Inc., Chicago, Ill. Icings and toppings for foods. No. 130,992; May 4; v. 274; p. 193.
Whitehouse Brothers, Newark, N. J. Buckles. No. 130,993; May 4; v. 274; p. 193.
Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 130,994; May 4; v. 274; p. 193.
Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 131,269; May 4; v. 274; p. 201.
Whitmore, Vaughn D., Ceres, Calif. Fresh fruits—namely, grapes. No. 131,257; May 4; v. 274; p. 201.
Williams Chocolate Company, Scranton, Pa. Chocolate candy. No. 130,996; May 4; v. 274; p. 193.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. No. 131,270; May 4; v. 274; p. 201.
Wilton Manufacturing Co., Inc., New York, N. Y. Cotton piece goods. No. 130,997; May 4; v. 274; p. 193.
Winchenbaugh, Lester P., Co., Boston, Mass. Window-display paper. No. 131,271; May 4; v. 274; p. 201.
Winget, Limited, Westminster, London, England. Machinery and parts of machinery for mixing and for molding concrete and such like material. No. 130,998; May 4; v. 274; p. 193.
Wittl, Frederick J., Milwaukee, Wis. Razor-strops. No. 130,999; May 4; v. 274; p. 193.
Wolf Company, New York, N. Y. Ladies' nightgowns, petticoats, drawers, &c. No. 131,000; May 4; v. 274; p. 193.
Wolff Brothers, Paterson, N. J. Breakfast cereal foods and buckwheat-flour. No. 131,272; May 4; v. 274; p. 201.
Wood, W. B., Mfg. Co., St. Louis, Mo. Powder for the manufacture of ice-cream, fruit sherbet, &c. No. 131,001; May 4; v. 274; No. 193.
Woods, Leonard, St. Louis, Mo. Article of men's furnishings in the form of aluminum-plate supporters for trousers. No. 131,273; May 4; v. 274; p. 201.
Woolson Spice Co., Toledo, Ohio. Coffee. No. 131,002; May 4; v. 274; p. 193.
Wortendyke Manufacturing Company, Richmond Va. Paper bags. No. 131,003; May 4; v. 274; p. 193.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing-gum. No. 131,004; May 4; v. 274; p. 193.
Wuellner, J. J., & Son, Alton, Ill. Construction hoisting-towers. No. 131,005; May 4; v. 274; p. 193.
Wunderle, Philip, Philadelphia, Pa. Candy. No. 131,006; May 4; v. 274; p. 193.
York Pretzel Bakery, York, Pa. Pretzels, cakes, crackers, and biscuits. No. 131,007; May 4; v. 274; p. 193.
Yucaipa Apple Growers' Association, Yucaipa, Calif. Fresh apples. No. 131,274; May 4; v. 274; p. 201.
Ziff, Joseph, Detroit, Mich. Suspenders and men's garters. No. 131,008; May 4; v. 274; p. 193.
Zimmerer, John W., Fort Thomas, Ky. Live poultry and setting-eggs. No. 131,276; May 4; v. 274; p. 201.
Zinn, Robert, Epsom, N. H. Silk and cotton woven edges. No. 131,275; May 4; v. 274; p. 201.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Abrasive Company, Philadelphia, Pa. Grinding and polishing wheels. No. 128,035; May 4; v. 274; p. 175.
Acme Chemical Mfg. Co., New Orleans, La. Medicinal treatment for catarrhal conditions. No. 126,836; May 4; v. 274; p. 169.
Adelmann, Clarence N., Newark, N. J. Corsets, shirt-waists, dresses, nightgowns, petticoats, hats, bonnets, &c. No. 126,842; May 4; v. 274; p. 166.
Agorastos, Strates, New York, N. Y. Chocolates. No. 119,729; May 4; v. 274; p. 156.
Aktiebolaget Arca Regulatorer, Stockholm, Sweden. Regulators and parts thereof for regulating steam-valves, &c. No. 114,873; May 4; v. 274; p. 154.
American Abrasive Company, Westfield, Mass. Corundum in bulk. No. 126,437; May 4; v. 274; p. 167.
American Iron Products Company, Inc., New York, N. Y. Sheet iron and steel, tinplate, iron and steel bars and plates, black and galvanized wire. No. 127,532; May 4; v. 274; p. 172.
Arnheim, Benjamin H., Pittsburgh, Pa. Metal-polish. No. 126,440; May 4; v. 274; p. 167.
Austin-Nichols & Company, Inc., New York, N. Y. Coffee. No. 116,734; May 4; v. 274; p. 155.
Automatic Carbonic Machine Company, Peoria, Ill. Refrigerating-machines. No. 122,506; May 4; v. 274; p. 160.
Baldwin Estella, Huntington, N. Y. Liniment used in the treatment of sprains, bruises, &c. No. 103,581; May 4; v. 274; p. 153.
Batchelder, George F., Chicago, Ill. Face cream and powder, perfumes, toilet waters, rouge, &c. No. 126,984; May 4; v. 274; p. 170.
Bates, A. J. & Company, Inc., New York, N. Y. Shoes and slippers. No. 128,138; May 4; v. 274; p. 176.
Bauer & Black, Chicago, Ill. Medicated plasters. No. 126,985; May 4; v. 274; p. 170.
Bauman, Hyman & Co., New York, N. Y. Cotton piece goods. No. 128,197; May 4; v. 274; p. 176.
Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 125,172; May 4; v. 274; p. 163.
Bayer Company, Inc., The, New York, N. Y. Analgesic and antipyretic. Nos. 110,799–800; May 4; v. 274; p. 153.
Becker, Edward M. Company, The, Cleveland, Ohio. Marshmallow candy. No. 127,885; May 4; v. 274; p. 175.
Bisceglia Brothers Co., San Jose, Calif. Canned fruits. No. 128,823; May 4; v. 274; p. 179.
Blackman, Maurice R., Washington, D. C. Sundaes. No. 116,076; May 4; v. 274; p. 154.
Blanck & Co. Inc., New York, N. Y. Laces and embroideries in the piece. No. 117,432; May 4; v. 274; p. 155.
Block Chemical Company, Inc., The. Hair-nets. No. 128,073; May 4; v. 274; p. 176.
Bolt, Cadimus L., Ware Shoals, S. C. Medicinal compound for a liver regulator and general tonic. No. 126,269; May 4; v. 274; p. 166.
Browne, Waldo R., Wyoming, N. Y. Article of confectionery consisting of honey nougat. No. 123,725; May 4; v. 274; p. 161.
Bray Picture Corporation, The, New York, N. Y. Moving-picture films. No. 129,872; May 4; v. 274; p. 180.
Buchanan, Walter D., Greenville, Ohio. Candy. No. 118,038; May 4; v. 274; p. 156.
Buehler, Herbert J., Newark, N. J. Prepared pudding. No. 211,969; May 4; v. 274; p. 158.
Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Explosive-engines and parts therefor. No. 127,112; May 4; v. 274; p. 171.
Carpenter-Morton Company, Boston, Mass. Prepared roofing. No. 117,106; May 4; v. 274; p. 155.
Central States Orchards Co., Kansas City, Mo. Apples in their natural state. No. 120,816; May 4; v. 274; p. 157.
Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Radiator compound for internal-combustion engines. No. 126,895; May 4; v. 274; p. 170.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 122,109; May 4; v. 274; p. 159.
Chipman Knitting mills, Easton, Pa. Knit underwear and hosiery. No. 126,616; May 4; v. 274; p. 168.
Christoforides, John, London, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 125,514; May 4; v. 274; p. 161.
Clark, Sawyer D., Boulder, Colo. Salve or ointment for catarrh, eczema, &c. No. 123,840; May 4; v. 274; p. 162;
Clark Bros. Stores, Scranton, Pa. Peanuts in the shell and peanut-butter. No. 120,744; May 4; v. 274; p. 157.
Clarotype Company, The, Charleston, S. C., and New York, N. Y. Chemical cleansing compound for typewriters and other metal type, &c. No. 125,219; May 4; v. 274; p. 164.
Cochran & Horseman, Marion, Ohio. Bread. No. 122,206; May 4; v. 274; p. 159.
Comstock, C. & F. W., Port Jefferson Station, N. Y. Cake and cookies. No. 121,456; May 4; v. 274; p. 158.
Condrell, Paul K, Kenmore, N. Y. Pure milk-chocolate bars containing roasted almonds and cocoanut. No. 126,352; May 4; v. 274; p. 167.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Men's knitted union-suits. No. 128,081; May 4; v. 274; p. 176.
D. D. D. Company, Chicago, Ill. Liquid for treatment of eye trouble. No. 119,825; May 4; v. 274; p. 157.
Davidson Brothers, Chula Vista, Calif. Chemicals, medicines, and pharmaceutical preparations. No. 122,010; May 4; v. 274; p. 159.
De Montmorency, Beresford B., Chicago, Ill. Teas. No. 126,562; May 4; v. 274; p. 168.
De Nordiske Fabriker, De-No-Fa, Aktieselskab, Christiania, Norway. Fats produced by the hydrogenation of vegetable and animal oils and fats. No. 120,989; May 4; v. 274; p. 158.
De Nordiske Fabriker, De-No-Fa, Christiania, Norway. Refined and unrefined fats produced by the hydrogenation of vegetable and animal oils and fats. No. 123,311; May 4; v. 274; p. 161.
Decker, Jacob E., & Sons, Mason City, Iowa. Hams, bacon, and picnic-hams. No. 125,368; May 4; v. 274; p. 164.
Delmonico, Charles C., New York, N. Y. Candy. No. 128,426; May 4; v. 274; p. 177.
Diffenbacher, Mark M., San Francisco, Calif. Candies. No. 127,799; May 4; v. 274; p. 174.
Dilas, George S., & Company, Bay City, Mich. Bonbons and chocolates. No. 118,906; May 4; v. 274; p. 156.
Dodge, A. & Son Corp., Beverly, Mass. Wheat-flour, bran, middlings. No. 128,297; May 4; v. 274; p. 177.
Eadon, Moses, & Sons Limited, Sheffield, England. Twist-drills, reamers, machine-knives, hand and hack saws, &c. No. 120,343; May 4; v. 274; p. 157.
Eagle Cotton Mills Co., Madison, Ind. Rope yarns and cotton twines and cordage. No. 125,322; May 4; v. 274; p. 164.
Elseman, Samuel & Co., New York, N. Y. Silk piece goods. No. 128,834; May 4; v. 274; p. 179.
Empire Silk Company, Wilmington, Del., New York, N. Y. Silk piece goods. No. 128,885; May 4; v. 274; p. 179.
Faehner, Madeleine, New York, N. Y. Hair-tonic. No. 125,153; May 4; v. 274; p. 163.
Fagan, Hosea B., Burlington, Iowa. Malt syrup for food purposes. No. 126,719; May 4; v. 274; p. 169.
Farm Equipment Co., The, Baltimore, Md. Barbed wire, metal stock drinking-cups, water-bowls, &c. No. 126,685; May 4; v. 274; p. 168.
Field, Marshall, & Co., Chicago, Ill. Draperies composed of cotton, silk, artificial silk, wool, &c., decorative fabrics, &c. No. 128,430; May 4; v. 274; p. 178.
Fine & Levy, New York, N. Y. Men's and boy's caps. No. 126,630; May 4; v. 274; p. 168.
Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes and slippers of leather, rubbers, &c. No. 126,793; May 4; v. 274; p. 169.
Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes and slippers of leather, rubber, or other material. No. 127,503; May 4; v. 274; p. 172.
Fortune Products Company, Chicago, Ill. Spaghetti, macaroni, vermicelli, and egg-noodles. Nos. 127,805–6; May 4; v. 274; p. 174.
G. & H. Chemical Co., Inc., New York, N. Y. Metal-polish. No. 126,855; May 4; v. 274; p. 169.
Galveston Typewriter Exchange, Inc., Galveston, Tex. Typewriter-ribbons and carbon-paper. No. 116,771; May 4; v. 274; p. 155.
Gavey, William S., New York, N. Y. Woolens, plaid backs, woolen suitings, coatings, cloakings, &c. No. 127,473; May 4; v. 274; p. 172.
General Rubber Goods Company, The, Cleveland, Ohio. Manufactured rubber merchandise. No. 117,403; May 4; v. 274; p. 155.
Gentile, Oronzio, West Hoboken, N. J. Leather shoes. No. 123,929; May 4; v. 274; p. 162.
Ghosh, Satish C., Chicago, Ill. Incense. No. 126,575; May 4; v. 274; p. 168.

Giroux, Pierre E., & Co., Johnstown, N. Y. Slippers. No. 126,767; May 4; v. 274; p. 169.
Goodrich, B. F., Company, The, New York, N. Y. Printing-press inking-rollers. No. 126,022; May 4; v. 274; p. 165.
Gordon & Dilworth, Inc., New York, N. Y. Preserved fruits, jellies, jams, &c. No. 115,529; May 4; v. 274; p. 154.
Grace, W. R., & Co., New York, N. Y., San Francisco, Calif. Canned fruit. No. 126,930; May 4; v. 274; p. 170.
Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 124,107; May 4; v. 274; p. 162.
Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 126,932; May 4; v. 274; p. 170.
Griggs-Paxton Shoe Co., Inc., Roanoke, Va. Boots and shoes of leather, leather and fabric, and rubber fabric. No. 122,890; May 4; v. 274; p. 160.
Gulesian, Selden J., Revere, Mass. Pipe-rail fittings comprising metal-pipe railing, floor-flanges, elbows, &c. No. 127,644; May 4; v. 274; p. 174.
Gumpert, S., & Co., Brooklyn, N. Y. Powder for use in making meringue, marshmallow, cake-fillings, &c. No. 128,838; May 4; v. 274; p. 179.
Gutmann, Henri, Silks Corporation, New York, N. Y. Silk goods in the piece. No. 129,011; May 4; v. 274; p. 179.
Halperin, Nathan, Brooklyn, N. Y. Wearing-apparel for males and females, known as jerseys. No. 122,398; May 4; v. 274; p. 159.
Hamburger, D. Ellis, Brooklyn, N. Y. Candy. No. 125,154; May 4; v. 274; p. 163.
Harrell, Arlando T., Chicago, Ill. Candy. No. 128,503; May 4; v. 274; p. 178.
Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 126,381; May 4; v. 274; p. 167.
Headley Good Roads Company, Philadelphia, Pa. Road-oil used as a binder. No. 101,650; May 4; v. 274; p. 153.
Hodgson Oil Refining Co., Athens, Ga. Lard substitute. No. 124,685; May 4; v. 274; p. 163.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 128,504; May 4; v. 274; p. 178.
Horlick's Food Company, Racine, Wis. Preparations for the modification of milk. No. 120,457; May 4; v. 274; p. 157.
Hubbell-Plummer, Beatrice, Los Angeles, Calif. Smocks and aprons. No. 128,107; May 4; v. 274; p. 176.
Hughes, Emanuella M., New York, N. Y. Medicinal treatment for skin disease. No. 126,279; May 4; v. 274; p. 166.
Hume, Geo. W., Company, San Francisco, Calif. Canned fish, salmon, fruits, and vegetables. No. 128,844; May 4; v. 274; p. 179.
International Handkerchief Mfg. Co., The, New York, N. Y. Handkerchiefs. No. 128,440; May 4; v. 274; p. 178.
Jackson, C. D., & Co. Inc., New York, N. Y. Marble and stone. Nos. 127,551–60 ;aMy 4; v. 274; pp. 173–4.
Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 127,288; May 4; v. 274; p. 171.
Johnson & Murray, Inc., Utica, N. Y. Canned lye, bluing, and ammonia in glass. No. 126,864; May 4; v. 274; p. 169.
Johnson, F. N., Maple Syrup Company, The, Bellefontaine, Ohio. Cane and maple syrup. No. 128,973; May 4; v. 274; p. 179.
Jones, D. Stuart, Washington, D. C. Coffee and tea. No. 123,125; May 4; v. 274; p. 161.
Jones, Joseph M., Baltimore, Md. Insecticide and fungicide. No. 125,702; May 4; v. 274; p. 164.
Jureidini Export Company, New York, N. Y. Philippine lingerie, underwear, shoes, and hats. No. 125,155; May 4; v. 274; p. 163.
Kellogg Products, Inc., Buffalo, N. Y. Oleomargarin. No. 128,270; May 4; v. 274; p. 177.
Kelly, Margaret A., San Francisco, Calif. Medicinal preparation to be used as a dentifrice and for treating pyorrhea. No. 124,795; May 4; v. 274; p. 163.
Kenyon, John, & Co. (Sheffield) Limited, Sheffield, England. Milling-cutters, twist-drills, hoes, hammers, spades, shovels, &c. No. 119,899; May 4; v. 274; p. 157.
Kipper, Allen F., Los Angeles, Calif. Wind-deflectors for automobiles. No. 124,217; May 4; v. 274; p. 162.
La Fayette Motor Company, Indianapolis, Ind. Automobiles. No. 127,292–3; May 4; v. 274; p. 171.
Lapeyre Brothers, Great Falls, Mont. Toilet cream for the skin. No. 127,373; May 4; v. 274; p. 171.
Lawrence Canning Co., Rockland, Me. Sardines. No. 129,016; May 4; v. 274; p. 180.
Lead Products Company, St. Louis, Mo. Lead products—Namely, red lead, litharge, and orange mineral. No. 122,991; May 4; v. 274; p. 160.
Lisenby Manufacturing Company, Fresno, Calif. Printing-presses and parts thereof. No. 123,249; May 4; v. 274; p. 161.
Little Goddess Dress Co., Inc., The, New York, N. Y. Children's dresses. No. 118,992; May 4; v. 274; p. 156.
Loeb, S. S., & Co., Boston, Mass. Cravats, collars, dress-shirts, &c No. 123,746; May 4; v. 274; p. 162.
Logan, Thos. H., Co., Hudson, Mass. Boots and shoes. No. 126,967; May 4; v. 274; p. 170.
Longino & Collins, New Orleans, La. Butter. No. 127,927; May 4; v. 274; p. 175.
Lunn & Sweet Co., Auburn, Me. Leather shoes and juliets. No. 124,999; May 4; v. 274; p. 163.
Luxite Silk Products Co., Milwaukee, Wis. Underwear for men, women, and children. No. 127,005; May 4; v. 274; p. 170.
Mackenzie Robert F., Co., The, Cleveland, Ohio. Candy. No. 127,376; May 4; v. 274; p. 171.
Manhattan Medicine Co., The, Des Moines, Iowa. Laxative tonic. No. 125,794; May 4; v. 274; p. 165.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N.Y. Candies and chocolates. No. 116,549; May 4; v. 274; p. 154.
Maurer, Oscar E., San Francisco, Calif. Food-syrup for baking purposes. No. 120,172; May 4; v. 274; p. 157.
Maurice, R., and Company, Limited, Willesden, London, England. Enriched pastry-flour. No. 116,185; May 4; v. 274; p. 154.
Mayo-Skinner Mfg. Company, Chicago, Ill. Hand-operated tire-pumps. No. 124,724; May 4; v. 274; p. 163.
McClaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 126,586; May 4; v. 274; p. 168.
McKesson & Robbins Inc., New York, N. Y. Perfumery. No. 125,294; May 4; v. 274; p. 164.
Meakin, J. & G., Limited, Hanley, England. Ironstone china and semiporcelain earthenware. No. 123,288; May 4; v. 274; p. 161.
Menzin, Morris, New York, N. Y. Men's dress-shirts. No. 121,311; May 4; v. 274; p. 158.
Mexican Products Corporation, Nogales, Ariz. Boxes of fresh tomatoes, cabbage, canteloups, &c. No. 128,215; May 4; v. 274; p. 176.
Meyer, Otto, and Co., Inc., New York, N. Y. Leather shoes. No. 125,757; May 4; v. 274; p. 164.
Miller, Willard A., Cambridge, Mass. Candy. No. 128,216; May 4; v. 274; p. 176.
Mims, J. H., Boston, Ga. Medicine for constipation, torpid liver, indigestion, &c. No. 125,236; May 4; v. 274; p. 164.
Mitchell, T. J., & Co. Inc., New York, N. Y. Silk goods in the piece. No. 127,824; May 4; v. 274; p. 174.
Morse, A. G. Co., Chicago, Ill. Candy. No. 128,692; May 4; v. 274; p. 178.
Multiple Electric Products Company, Inc., New York, N. Y. Electric fuses, motors, lamps, switches, &c. No. 125,793; May 4; v. 274; p. 165.
Nardi, Pasquali, New York, N. Y. Ladies' riding-habits. No. 126,483; May 4; v. 274; p. 167.
Nathan and Cohen Co., New York, N. Y. Silk-filled crêpe de chine piece goods. No. 128,312; May 4; v. 274; p. 177.
National Cloak & Suit Co., New York, N. Y. Ladies' and misses' blouses. No. 123,252; May 4; v. 274; p. 161.
National Water-Proofing Company, Memphis, Tenn. Water-proof clothing or coverings consisting of rain-coats, leggings, and puttees. No. 122,607; May 4; v. 274; p. 160.
Neher, Irvin R., Ross, Mich. Chemical tablets for increasing the efficiency of gasolene. No. 127,388; May 4; v. 274; p. 172.
Nemser, Joseph, New York, N. Y. Ladies' gowns for outer wear. No. 126,872; May 4; v. 274; p. 169.
Neptune Fisheries, Ocean Grove, N. J. Sea foods such as dried boneless codfish. No. 126,419; May 4; v. 274; p. 167.
New Products Company, Pittsburgh, Pa. Gummed and ungummed paper and cloth strips or tapes in rolls and tape-moistening machines. No. 119,244; May 4; v. 274; p. 156.
New York Boat Oar Co., Inc., New York, N. Y. Oars, sweeps, and sculls. No. 127,769; May 4; v. 274; p. 174.
Norma Chocolate Company, Brooklyn, N. Y. Chocolate. No. 128,314; May 4; v. 274; p. 177.
Novocal Chemical Mfg. Co., Inc., Brooklyn, N. Y. Local anesthetics. No. 126,388; May 4; v. 274; p. 167.
Nulomoline Company, The, New York, N. Y. Cereal and sugar syrups for table purposes. No. 118,791; May 4; v. 274; p. 156.
Pantasote Leather Company, The, Passaic, N. J. Water-proof fabrics in the piece. No. 128,402; May 4; v. 274; p. 177.
Pantasote Leather Company, The, Passaic, N. J. Water-proof fabrics in the piece. No. 128,559; May 4; v. 274; p. 178.
Par Po Mfg. Co., Detroit, Mich. Parcel-post packages. No. 126,590; May 4; v. 274; p. 168.
Paskie, D. R., & Co., New York, N. Y. Coat-collars. No. 126,539; May 4; v. 274; p. 167.
Pearsall & Company, New York, N. Y. Piece goods composed of woolens, worsted, wool and cotton, &c. No. 127,830; May 4; v. 274; p. 175.
Pemetine Company, Inc., The, New York, N. Y. Preparation for the treatment of the teeth. No. 125,059; May 4; v. 274; p. 163.
Peoples System of Bakeries, Inc., Chicago, Ill. Baking plant comprising ovens, dough-mixers, bread-troughs, &c. No. 128,979; May 4; v. 274; p. 179.
Popular Canning Co. Inc., Los Angeles, Calif. Canned peaches, pears, and tomatoes. No. 127,931; May 4; v. 274; p. 175.
Ransom & Randolph Company, The, Toledo, Ohio. Local anesthetic, sodium phenique compound, &c. No. 1,240,492; May 4; v. 274; p. 163.

Reed, James W., Imperial, Calif. Citrus fruit—namely, grapefruit. No. 127,660; May 4; v. 274; p. 174.
Reflex Auto Accessory Co., Auburn, Ind. Brake-band lining. No. 126,141; May 4; v. 274; p. 166.
Reliance Manufacturing Company, Chicago, Ill. Workshirts. No. 126,821; May 4; v. 274; p. 169.
Reuben and Zukerman, Inc., New York, N. Y. Ladies' waists. No. 126,232; May 4; v. 274; p. 166.
Rhodes Metallic Packing Co., Inc., Shreveport, La. Metallic rod-packing. No. 126,068; May 4; v. 274; p. 165.
Richardson Dry Goods Co., St. Joseph, Mo. Ribbons, handkerchiefs, sheets, linen, cotton, and union damask, &c. No. 125,859; May 4; v. 274; p. 165.
Rider Wallis Dry Goods Co., Dubuque, Iowa, New York, N. Y. Cotton and knit piece goods, muslins, &c. No. 128,218; May 4; v. 274; p. 176.
Robin, Jacob I., New York, N. Y. Gas-heaters. No. 127,448; May 4; v. 274; p. 172.
Rochester Germicide Company, Rochester, N. Y. Disinfectants, insecticides, and germicides. No. 123,078; May 4; v. 274; p. 160.
Rodgers Hosiery Company, Incorporated, Philadelphia, Pa. Hosiery. No. 127,185; May 4; v. 274; p. 171.
Roessel, Louis & Co., New York, N. Y. Light-weight woven silk and cotton fabrics for millinery purposes. No. 114,978; May 4; v. 274; p. 154.
Rogers, Hennessey & Jenkins, Boston, Mass. Quilts, cotton and wool blankets, and traveling-rugs. No. 128,325; May 4; v. 274; p. 177.
Ross, George W., New York, N. Y. Ointment for the growth and darkening of the eyebrows and eyelashes. No. 127,523; May 4; v. 274; p. 172.
Royal Ink & Mucilage Co., Pittsburgh, Pa. Writing fluid. No. 128,112; May 4; v. 274; p. 176.
Rub-Tex Organization Company, Kenton, Ohio. Fibrous rubber floor-board, running-board, and step mats for automobiles. No. 122,997; May 4; v. 274; p. 160.
Rupert, A., Company, Inc., Portland, Oreg. Canned fruits, vegetables, and fish. No. 126,066; May 4; v. 274; p. 165.
Rupert, A., Company, Inc., Portland, Oreg. Fruit preserves, raspberry jam, and canned salmon. No. 126,541; May 4; v. 274; 168.
Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Ginghams, cotton goods, wool and cotton goods, &c. No. 128,113; May 4; v. 274; p. 176.
Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 124,078; May 4; v. 274; p. 162.
Scandrett, Leslie A., Sydney, New South Wales, Australia. Rabbit-meat. No. 114,487; May 4; v. 274; p. 154.
Scott, Lester C., San Diego, Calif. Lubricating-oils for guns, locks, bicycles, &c. No. 116,504; May 4; v. 274; p. 154.
Searle, Robinson P., Toledo, Ohio. Lubricating oils and greases. Nos. 123,177–8; May 4; v. 274; p. 161.
Seligman, N., Merchandise Co., New York, N. Y. Hair-nets and laces. No. 118,939; May 4; v. 274; p. 156.
Senoret Chemical Co., St. Louis, Mo. Medicinal preparation for colds, coughs, bronchitis, pleurisy, &c. No. 127,400; May 4; v. 274; p. 172.
Shapiro Bros. & Mirsky, Los Angeles, Calif. Ladies' waists for outer wear. No. 127,401; May 4; v. 274; p. 172.
Shaw Family, Inc., The, San Jose, Calif. Canned fruits, jams, preserves. Nos. 127,937–8; May 4; v. 274; p. 175.
Shoninger, B., Co., New Haven, Conn. Pianos. No. 126,395; May 4; v. 274; p. 167.
Silkheart Mattress Co., Methane, N. C. Mattresses. No. 125,916; May 4; v. 274; p. 165.
Sjoquist, Theodore, Chicago, Ill. Sound-intensifiers for telephones. No. 125,253; May 4; v. 274; p. 164.
Skinner, William, & Sons, Holyoke, Mass. Silk piece goods and cotton piece goods and combinations of same. No. 128,530; May 4; v. 274; p. 178.
Smith, Kline & French Co., Philadelphia, Pa. Aspirin. No. 124,450; May 4; v. 274; p. 162.
Somma Shops, Inc., New York, N. Y. Furniture and reproductions of period furniture. No. 122,556; May 4; v. 274; p. 160.
Sonn Brothers Company, New York, N. Y. Dyestuffs. No. 126,153; May 4; v. 274; p. 166.
South Bend Lathe Works, South Bend, Ind. Engine-lathes. No. 129,024; May 4; v. 274; p. 180.
Standard Accessory Corporation, Milwaukee, Wis. Electrical-lighting attachments for sound-reproducing machines. No. 127,524; May 4; v. 274; p. 172.
Stix, Louis, & Co., Cincinnati, Ohio. Articles of outer and under clothing for women and children. No. 127,981; May 4; v. 274; p. 175.
Strasbaugh, Harry P., Aberdeen, Md. Foods in hermetically-sealed cans. No. 128,746; May 4; v. 274; p. 178.
Super-Glass Co., The, Philadelphia, Pa. Sheet-glass. No. 116,043; May 4; v. 274; p. 154.
Tew Patent Development Company, Seattle, Wash. Valves for cleaning out oil and gas pipes, &c. No. 125,983; May 4; v. 274; p. 165.
Texas Oil, Gas & Mineral Products Company, Houston, Tex. Powder for cleansing, scouring, and polishing metal, glass, &c. No. 120,854; May 4; v. 274; p. 158.
Texas Oil, Gas & Mineral Products Company, Houston, Tex. Powder for cleaning, scouring, and polishing, metal, glass, woodwork, &c. No. 121,881; May 4; v. 274; p. 158.
Thompson, John R., Co., Chicago, Ill. Bread. No. 125,550; May 4; v. 274; p. 164.
Thompson, Selene P., New York, N. Y. Apparatus symbolizing a journey to the moon. No. 124,289; May 4; v. 274; p. 162.
Tiffany and Company, New York, N. Y. Non-electric lamps, candlesticks, and candelabra. Nos. 128,248–9; May 4; v. 274; p. 177.
Tiffany and Company, New York, N. Y. Table-glassware. No. 128,245; May 4; v. 274; p. 176.
Tiffany and Company, New York, N. Y. Table-glassware. No. 128,247; May 4; v. 274; p. 177.
Tiffin Products, Inc., New York, N. Y. Candy. No. 126,399; May 4; v. 274; p. 167.
Tropics Corporation, The, New York, N. Y. Sugar. No. 127,407; May 4; v. 274; p. 172.
Tyler, G. H., & Co., Cincinnati, Ohio. Belts for supporting wearing-apparel. No. 126,494; May 4; v. 274; p. 167.
United Drug and Candy Manufacturing Company, The, Cleveland, Ohio. Chocolate candy. No. 128,258; May 4; v. 274; p. 177.
United Drug Company, Boston, Mass. Talcum and chafing powder, zinc-stearate talc, worm, colic, and cough remedy, &c. No. 127,621; May 4; v. 274; p. 174.
United States Drug & Chemical Co., The, Cleveland, Ohio. Toilet preparations, hair-tonics, face and shaving lotions, dentifrices, &c. No. 126,295; May 4; v. 274; p. 166.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Floor-covering made of rubber compound. No. 120,778; May 4; v. 274; p. 157.
Universal Remedies Company, Duluth, Minn. Liniment for rheumatism, stiff joints, cuts, bruises, toothache, chilblains, &c. No. 127,070; May 4; v. 274; p. 170.
Van Range, John, Co., The, Cincinnati, Ohio. Serving-tables. No. 126,296; May 4; v. 274; p. 166.
Vancouver Drug Company, Limited, Vancouver, British Columbia, Canada. Preparations for the relief of headache and neuralgia. No. 124,457; May 4; v. 274; p. 162.
Vermont Maple Syrup Company, Inc., Essex Junction, Vt. Blended cane and maple table-syrup. No. 119,459; May 4; v. 274; p. 156.
Waldes & Co., Inc., Long Island City, N. Y. Snap-fasteners. No. 128,947; May 4; v. 274; p. 179.
Wall & Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, barometers, &c. No. 130,400; May 4; v. 274; p. 180.
Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 128,576; May 4; v. 274; p. 178.
Waters, Cleveland L., Seattle, Wash. Hair-restorer. No. 121,702; May 4; v. 274; p. 158.
Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 129,115; May 4; v. 274; p. 180.
Weber, Jacob H., Brooklyn, N. Y. Talking-machines. No. 120,862; May 4; v. 274; p. 158.
Weil Maximilian, New York, N. Y. Devices for transmitting communication into transmitter of telephone sets. No. 113,685; May 4; v. 274; p. 153.
White, James P., & Co., New York, N. Y. Toweling. No. 127,987; May 4; v. 274; p. 175.
Whittemore Brothers Corporation, Cambridge, Mass. Dye to be used on leather and articles made therefrom. No. 113,783; May 4; v. 274; p. 154.
Woldert Peanut Products Co., Tyler, Tex. Peanut-butter. No. 126,889; May 4; v. 274; p. 170.
Woodill, Alfred L., Riverside, Calif. Fresh oranges. No. 115,303; May 4; v. 274; p. 154.
Worumbo Manufacturing Company, Bath, Me. Woolen piece goods. No. 129,364; May 4; v. 274; p. 180.
Yntema, Theodore J., Scranton, Pa. Scalp remedies, a liquid preparation used in treatment of the hair. No. 113,153; May 4; v. 274; p. 153.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting machine, Ticket-issuing. F. Skerl and F. J. Graef. No. 1,338,876; May 4; v. 274; p. 42.
Acetic anhydrid. H. Dreyfus. No. 1,338,979; May 4; v. 274; p. 60.
Acids, Object having great strength and resistance against the action of. B. Strauss. No. 1,339,378; May 4; v. 274; p. 134.
Aerial mark from a battery, Apparatus for determining the elevation and distance of an. N. Overaas. No. 1,339,130; May 4; v. 274; p. 90.
Aeronautical machine, Power control for. A. J. Greenly. No. 1,339,332; May 4; v. 274; p. 126.
Aeroplane height-indicator. L. B. Sperry. No. 1,339,006 May 4; v. 274; p. 66.
Aeroplane-propeller. R. M. Shaffer. No. 1,338,874; May 4; vol. 274; p. 41.
Air cleaning, moistening, and cooling apparatus. W. F. Cox. No. 1,339,105; May 4; v. 274; p. 85.
Air-lift apparatus. E. M. Rogers. No. 1,339,137; May 4; v. 274; p. 92.
Aircraft, Apparatus for releasing bodies from. A. H. Gledhill. No. 1,338,724; May 4; v. 274; p. 14.
Airplane strut member. M. W. Mix. No. 1,338,836; May 4; v. 274; p. 34.
Alloy. G. L. Van Allen. No. 1,339,009; May 4; v. 274; p. 66.
Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,338,826; May 4; v. 274; p. 33.
Aluminous composition and making same. O. Hutchins. No. 1,339,344; May 4; v. 274; p. 128.
Amusement device. J. J. Stock. No. 1,339,299; May 4; v. 274; p. 119.
Anesthetic apparatus. A. C. Clark. No. 1,338,905; May 4; v. 274; p. 47.
Annealing and heat-treating furnace. J. Weintz. No. 1,339,081; May 4; v. 274; p. 81.
Anterattler and window-locking device, Combined. G. L. Rouse. No. 1,338,792; May 4; v. 274; p. 27.
Ash-conveying system. D. A. Livensparger. No. 1,339,209; May 4; v. 274; p. 104.
Ash-hoist. C. Siedlickis. No. 1,339,072; May 4; v. 274; p. 79.
Automobile attachment. L. F. Fuller. No. 1,338,915; May 4; v. 274; p. 49.
Automobile-body construction. B. M. Diver. No. 1,339,325; May 4; v. 274; p. 124.
Automobile-locking device. L. Faust and E. B. Anderson. No. 1,338,913; May 4; v. 274; p. 49.
Automobile-signal. E. A. Sendker. No. 1,338,703; May 4; v. 274; p. 10.
Automobile-spring. W. F. Cauley. No. 1,338,673; May 4; v. 274; p. 5.
Automobile-tool. J. Z. Roberge. No. 1,339,289; May 4; v. 274; p. 117.
Automobile-wheel. H. S. Cox. No. 1,339,168; May 4; v. 274; p. 96.
Automobiles, Radiator and hood cover for. W. E. Norcross. No. 1,338,693; May 4; v. 274; p. 8.
Automobiles, Steering-gear lock for. H. F. George. No. 1,339,329; May 4; v. 274; p. 125.
Autoscope. J. Kometter, Jr. No. 1,338,738; May 4; v. 274; p. 17.
Ax. C. J. Kopriva. No. 1,339,357; May 4; v. 274; p. 130.
Bait, Artificial. R. R. Odell. No. 1,338,953; May 4; v. 274; p. 56.
Ball-bearing spindle. F. H. Chapman. No. 1,338,904; May 4; v. 274; p. 47.
Banjo. R. T. Carlucci. No. 1,339,318; May 4; v. 274; p. 123.
Bar: *See*—
Structural bar.
Barge, Metal. J. L. Taylor. No 1,338,712; May 4; v. 274; p. 12.
Battery-box. T. L. Moorman. No. 1,338,690; May 4; v. 274; p. 8.
Battery-plate and terminal connection. A. F. Hawkins. No. 1,339,061; May 4; v. 274; p. 77.
Bearing. G. H. Worrall. No. 1,339,084; May 4; v. 274; p. 81.
Bearing, Antifriction-. J. T. Rice. No. 1,338,868; May 4; v. 274; p. 40.
Bearing, Roller-. A. M. Laycock. No. 1,338,939; May 4; v. 274; p. 53.
Bearing, Shaft-. W. W. Neighbour. No. 1,339,277; May 4; v. 274; p. 115.
Bearing, Side. W. A. Bock. No. 1,338,763; May 4; v. 274; p. 22.
Bed. C. M. Winn. No. 1,339,250; May 4; v. 274; p. 111.
Bedstead and wardrobe, Combination. B. Lipshitz. No. 1,338,741; May 4; v. 274; p. 17.
Belt. N. T. Fogg. No. 1,338,859; May 4; v. 274; p. 39.
Belt. C. M. Waltz. No. 1,339,309; May 4; v. 274; p. 121.
Belt, Traction-. H. C. Steele. No. 1,339,298; May 4; v. 274; p. 119.
Bench, Piano-. C. F. Kade. No. 1,339,262; May 4; v. 274; p. 113.
Bending-machine. A. M. Meyers. No. 1,338,946; May 4; v. 274; p. 55.
Beverages, Making non-intoxicating. W. Wilhelmy, Sr. No. 1,338,803; May 4; v. 274; p. 29.
Binder, Temporary. G. W. Windisch. No. 1,339,249; May 4; v. 274; p. 110.
Block: *See*—
Sewer-block.
Block-turning apparatus. T. Rotheram. No. 1,339,138; May 4; v. 274; p. 92.
Blotting-pad. A. Baumgartner. No. 1,338,669; May 4; v. 274; p. 4.
Board: *See*—
Game-board.
Boiler: *See*—
Signaling-boiler.
Boiler-tube cleaner, Duplex-acting percussion. W. Burlingham. No. 1,339,098; May 4; v. 274; p. 84.
Book, Spoon and spinner. R. C. Stewart. No. 1,339,231; May 4; v. 274; p. 108.
Bookmarker. R. N. Frame. No. 1,338,861; May 4; v. 274; p. 39.
Bottle-cap lifter. P. H. Welcker. No. 1,338,847; May 4; v. 274; p. 37.
Bottle-closure. C. E. McManus. No. 1,339,066; May 4; v. 274; p. 78.
Bottle holder, Nursery-. C. A. Boyce. No. 1,339,018; May 4; v. 274; p. 68.
Bottles, Capping. B. F Rochrig. No. 1,339,370; May 4; v. 274; p. 133.
Bowl hanger, Light-. A. J. Petersen. No. 1,338,958; May 4; v. 274; p. 57.
Box: *See*—
Pattery-box.
Collapsible box.
Folding box.
Locomotive driving-box.
Talking-machine sound-box.
Brake: *See*—
Electromagnetically-controlled brake.
Fire-shutter brake.
Brake-lining dressing. G. E. Calhoun. No. 1,338,811. May 4; v. 274; p. 30.
Bread-molding machine. J. Artkop. No. 1,339,087; May 4; v. 274; p. 82.
Brooder. C. H. Landenberger. No. 1,339,264; May 4; v. 274; p. 113.
Broom-corn and maize cutter. J. E. Pelnar. No. 1,339,282; May 4; v. 274; p. 116.
Brush, Shaving-. W. H. McEvilla. No. 1,339,065; May 4; v. 274; p. 78.
Bucket hanger, Paint-. C. M. Garst. No. 1,339,025; May 4; v. 274; p. 69.
Bumper. J. J. Condran. No. 1,339,167; May 4; v. 274; p. 96.
Buoy. W. S. Crouch. No. 1,339,321; May 4; v. 274; p. 123.
Burner: *See*—
Fuel-burner.
Fuel-oil burner.
Hydrocarbon-burner.
Button-attaching machine, Button-feed mechanism for. S. L. Snelerson. No. 1,339,324; May 4; v. 274; p. 124.
Button-fastener. A. J. Taylor. No. 1,339,234; May 4; v. 274; p. 108.
Cabinet, Blotting-paper. C. W. Selden. No. 1,339,140; May 4; v. 274; p. 92.
Cabinet, Check and deposit-slip. G. F. Brisendine. No. 1,339,255; May 4; v. 274; 112.
Cabinet, Self-ejecting record. H. S. Schissel. No. 1,339,291; 291; May 4; v. 274; p. 118.

Cabinets, Cable-guide for drophead-sewing-machine. T Kundtz. No. 1,338,834; May 4; v. 274; p. 34.
Calculator, Spherical triangle. R. Huntington. No. 1,338,730; May 4; v. 274; p. 15.
Cam. P. W. Murphy. No. 1,339,276; May 4; v. 274; p. 115.
Camera. K. Chen. No. 1,339,319; May 4; v. 274; p. 123.
Camera, Copying and eplarging. J. Beeker. No. 1,339,090; May 4; v. 274; p. 82.
Camera-timing device. N. S. McEwen. No. 1,339,117; May 4; v. 274; p. 88.
Camp-table, Folding automobile. R. B. Holland. No. 1,339,028; May 4; v. 274; p. 70.
Can nozzle and closure therefor, Metal-. G. A. Williams. No. 1,339,245; May 4; v. 274; p. 110.
Can or container. J. R. Harbeck. No. 1,338,688; May 4; v. 274; p. 7.
Can-polishing machine. O. W. Mojonnier. No. 1,338,949; May 4; v. 274; p. 55.
Car, Convertible. E. J. Lowry. No. 1,338,942; May 4; v. 274; p. 54.
Car, Convertible stock and freight. E. Wyatt. No. 1,338,805; May 4; v. 274; p. 29.
Car-coupling. W. Kelso. No. 1,339,030; May 4; v. 274; p. 70.
Car coupling, Automatic mine-. J. T. Blackledge. No. 1,339,016; May 4; v. 274; p. 67.
Car, Pipe-rack drier-. J. P. Martin. No. 1,339,119; May 4; v. 274; p. 88.
Car-wheel lathe. M. F. Boughen. No. 1,339,017; May 4; v. 274; p. 68.
Cars, Automatic coupling for fluid-conducting pipes of railway-. S. A. Rousseau. No. 1,339,042; May 4; v. 274; p. 73.
Cars, Outlet-valve mechanism for tank-. G. F. Wood-Smith. No. 1,339,083; May 4; v. 274; p. 81.
Cars, Side bearing for railway-. J. F. O'Connor. No. 1,338,747; May 4; v. 274; p. 18.
Carbon-gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,338,955; May 4; v. 274; p. 56.
Carbonizing material, Making. N. B. Radabaugh. No. 1,338,841; May 4; v. 274; p. 35.
Carbureter. G. E. Bradshaw. No. 1,339,095; May 4; v. 274; p. 83.
Carbureter. F. C. Mock. No. 1,339,214; May 4; v. 274; p. 105.
Carbureter. E. C. Newcomb. No. 1,339,218; May 4; v. 274; p. 105.
Carbureter. P. Povlotzky. No. 1,338,960; May 4; v. 274; p. 57.
Carbureter-adjusting device. T. D. Adair, Jr. No. 1,339,849; May 4; v. 274; p. 37.
Card-holder for record system. E. Lavergne dit Renaud. No. 1,338,790; May 4; v. 274; p. 26.
Cardboard and like boxes which are made collapsible. A. Aviss. No. 1,338,664; May 4; v. 274; p. 3.
Carpet-stitching device. C. Valenta. No. 1,339,307; May 4; v. 274; p. 121.
Carpets, floor-rugs, &c., Machine for printing. P. H. McGlehan. No. 1,338,785; May 4; v. 274; p. 25.
Carriage-threading device. D. Blydenburgh. No. 1,338,809; May 4; v. 274; p. 30.
Carrier: *See*—
Ice-cream-cone carrier.
Woven carrier.
Woven pocketed carrier.
Cartons, End-folding and sealing machine for. G. A. Robinson. No. 1,338,749; May 4; v. 274; p. 19.
Cash-register printing mechanism. F. M. Carroll. No. 1,338,903; May 4; v. 274; p. 47.
Casting iron screen-plates for steel grids. D. Brown. No. 1,339,096; May 4; v. 274; p. 84.
Catalyst and producing same. N. Sulzberger. No. 1,338,709; May 4; v. 274; p. 11.
Catalyzers, Apparatus for making. W. D. Richardson. No. 1,338,698; May 4; v. 274; p. 9.
Centrifugal apparatus with planetary movement. W. Mauss. No. 1,339,272; May 4; v. 274; p. 114.
Chain attachment. E. J. Brooks. (Reissue.) No. 14,851; May 4; v. 274; p. 135.
Chain repair-links, Antiskit-. O. H. Beutler. No. 1,338,851; May 4; v. 274; p. 37.
Chain, Sprocket-. L. Bethke. No. 1,338,808; May 4; v. 274; p. 30.
Chair. G. W. Martin. No. 1,339,068; May 4; v. 274; p. 78.
Chair and carriage, Collansible baby and wheeling. D. L. Kohlman. No. 1,339,355; May 4; v. 274; p. 130.
Change-counter. W. N. Dovener. No. 1,338,683; May 4; v. 274; p. 7.
Check-valve mechanism, Automatic. M. B. Nye. No. 1,339,128; May 4; v. 274; p. 90.
Chiropractor's table. G. C. Oakes. No 1,339,038; May 4; v 274; p. 72.
Chuck. H. S. Hubbell. No. 1,338,775; May 4; v. 274; p. 24.
Cigar-wrappers, Making. W. J. Goodfellow. No. 1,338,827; May 4; v. 274; p. 33.
Circuit-breaker. I. W. Broegger. No. 1,338,971; May 4; v. 274; p. 59.
Circuit-closer, Float-operated. M. H. Toland. No. 1,339,239; May 4; v. 274; p. 109.
Circuit-closer, Fluid-pressure. T. E. Brazeal. No. 1,338,896; May 4; v. 274; p. 45.
Circuit-lock. W. F. Rotermund. No. 1,339,003; May 4; v. 274; p. 65.
Circuits, Reverse-phase relay for use in connection with polyphase alternating-current. E. L. Gale, Sr. No. 1,339,192; May 4; v. 274; p. 100.
Clamp: *See*—
Rod-splicing clamp.
Clasp. S. Schrantz. No. 1,338,702; May 4; v. 274; p. 10.
Clay ware, Method and apparatus for burning. C. B. Harrop. No. 1,338,771; May 4; v. 274; p. 23.
Cleaner: *See*—
Boiler-tube cleaner.
Comb-cleaner.
Conduit-cleaner.
Windshield-cleaner.
Clip: *See*—
Collar-clip.
Penholder-clip.
Cleaning-machine, Portable. S. B. Pack. No. 1,339,280; May 4; v. 274; p. 116.
Clutch. C. V. Nordberg. No. 1,338,788; May 4; v. 274; p. 26.
Clutch. J. G. Vincent. No. 1,339,047; May 4; v. 274; p. 74.
Clutch. A. E. Woodhouse. No. 1,338,891; May 4; v. 274; p. 44.
Coat-front, Hair-lock. J. Moritz. No. 1,339,274; May 4; v. 274; p. 115.
Coating apparatus. E. P. Lindahl. No. 1,338,940; May 4; v. 274; p. 53.
Coating apparatus and method of coating. E. P. Lindahl. No. 1,338,782; May 4; v. 274; p. 25.
Coating composition for iron, steel, and wood. A. C. Holzapfel and P. Walther. No. 1,338,921; May 4; v. 274; p. 50.
Collapsible box. C. F. Christopher. No. 1,339,021; May 4; v. 274; p. 68.
Collar-clip. K. Staufenbell. No. 1,339,073; May 4; v. 274; p. 79.
Colors, Manufacture of. G. B. Palmer. No. 1,339,219; May 4; v. 274; p. 106.
Comb-cleaner. H. Lanfear. No. 1,338,937; May 4; v. 274; p. 53.
Combination-lock. F. C. Staver. No. 1,338,796; May 4; v. 274; p. 28.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,923; May 4; v. 273; p. 50.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,924; May 4; v. 274; p. 50.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,925; May 4; v. 274; p. 51.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,926; May 4; v. 274; p. 51.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,927; May 4; v. 274; p. 51.
Combustion, Method of and apparatus for regulating. T. A. Peebles. No. 1,339,000; May 4; v. 274; p. 65.
Combustion, Regulating. T. A. Peebles. No. 1,338,956; May 4; v. 274; p. 57.
Combustion regulating method and mechanism. F. H. Brown and J. M. Hopwood. No. 1,338,899; May 4; v. 274; p. 46.
Compass. S. E. Andrews. No. 1,338,666; May 4; v. 274; p. 3.
Computing-table device. A. A. Wray. No. 1,338,892; May 4; v. 274; p. 45.
Concrete rail and track. W. J. Platten. No. 1,339,046; May 4; v. 274; p. 74.
Condiment-holder. C. Douledes. No. 1,339,173; May 4; v. 274; p. 97.
Conduit-cleaner. E. Hall. No. 1,338,917; May 4; v. 274; p. 49.
Containers, Holder for liquid-. W. F. Close. No. 1,339,163; May 4; v. 274; p. 95.
Cooker, Grain and food. I. G. Dakin. No. 1,339,323; May 4; v. 274; p. 124.
Cooking utensil. H. Grob. No. 1,338,830; May 4; v. 274; p. 33.
Corn-picker. F. I. Friedline. No. 1,338,723; May 4; v. 274; p. 14.
Cornucopia-dispenser. F. Marek. No. 1,339,067; May 4; v. 274; p. 78.
Coupling: *See*—
Car-coupling.
Hose-coupling.
Pump-coupling.
Shaft-coupling.
Cranberry-separator. W. E. Trufant. No. 1,339,077; May 4; v. 274; p. 80.
Cranes, Luffing mechanism for jib-. J. N. Goudie. No. 1,338,726; May 4; v. 274; p. 14.
Cross-bar switch. J. N. Reynolds and J. F. Hearn. No. 1,339,001; May 4; v. 274; p. 65.
Cuff-button, Separable. J. J. Bernier. No. 1,339,314; May 4; v. 274; p. 122.
Current-regulating plug and socket. A. Papini. No. 1,338,998; May 4; v. 274; p. 64.
Curtain-fastener. H. K. Tarkington. No. 1,338,883; May 4; v. 274; p. 43.
Curtain-fitting. E. L. Wilson. No. 1,339,247; May 4; v. 274; p. 110.
Curtain-pile fixture, Drapery-. W. E. Kimber. No. 1,339,353; May 4; v. 274; p. 130.
Cutter: *See*—
Broom-corn and maize cutter.
Vegetable-cutter.
Cutter. W. C. Farnum. No. 1,338,822; May 4; v. 274; p. 32.
Cutter-head. D. J. Dixon. No. 1,338,819; May 4; v. 274; p. 32.

Cutting-tools, Manufacturing. H. P. Arnold. No. 1,339,152; May 4; v. 274; p. 93.
Cylinders, Device for capping off. H. F. Hitner and T. E. Oakes. No. 1,339,200; May 4; v. 274; p. 102.
Deflector. C. Fowler. No. 1,338,824; May 4; v. 274; p. 32.
Dental articulator. R. E. Hall. No. 1,338,918; May 4; v. 274; p. 49.
Deposit-slip. N. E. Goldberg. No. 1,339,331; May 4; v. 274; p. 125.
Depth-gage. T. M. Gunn. No. 1,338,981; May 4; v. 274; p. 61.
Desiccation. A. W. Lissauer. No. 1,339,115; May 4; v. 274; p. 87.
Developing-rack. F. W. Barnes. No. 1,339,088; May 4; v. 274; p. 82.
Dial and dial fastener. W. T. Maloney. No. 1,338,745; May 4; v. 274; p. 18.
Die and spiral. J. W. Thomas. No. 1,338,799; May 4; v. 274; p. 28.
Die-holder. R. T. McGee. No. 1,339,363; May 4; v. 274; p. 132.
Diestock. I. W. Nonneman. No. 1,338,863; May 4; v. 274; p. 39.
Diestock. I. W. Nonneman. No. 1,338,864; May 4; v. 274; p. 39.
Diestock. I. W. Nonneman. No. 1,338,865; May 4; v. 274; p. 40.
Dining-room set, Folding. H. A. St. John and G. H. Sauer. No. 1,339,232; May 4; v. 274; p. 108.
Disk-record holder. F. Grammich. No. 1,339,194; May 4; v. 274; p. 101.
Distilling. A. Hayes. No. 1,338,983; May 4; v. 274; p. 61.
Distributer and connector, Combined. G. L. Lang. No. 1,338,989; May 4; v. 274; p. 62.
Ditch-excavating machine. K. J. McDermott. No 1,338,784; May 4; v. 274; p. 25.
Door-lock. J. Toney. No. 1,338,713; May 4; v. 274; p. 12.
Door-operating mechanism. S. J. Strid. No. 1,338,755; May 4; v. 274; p. 20.
Doors, Air-opener for. J. Szczurek. No. 1,338,882; May 4; v. 274; p. 43.
Drag, Sheller-. E. J. Gretencord. No. 1,338,727; May 4; v. 274; p. 15.
Drier: *See*—
Laundry-drier.
Drier. W. B. Hutchinson. No. 1,338,731; May 4; v. 274; p. 15.
Driers, Rotary. A. O. Hurxthal. No. 1,339,260; May 4; v. 274; p. 112.
Drilling-machine. W. T. Sears. No. 1,339,044; May 4; v. 274; p. 73.
Drilling machinery. A. M. Sosa. No. 1,338,752; May 4; v. 274; p. 19.
Drip device. W. H. Grover. No. 1,339,195; May 4; v. 274; p. 101.
Driveways, Slab or brick for. G. V. Kondolf. No. 1,339,356; May 4; v. 274; p. 130.
Driving-band. H. A. S. Read. No. 1,339,287; May 4; v. 274; p. 117.
Drying apparatus. F. and N. Patrono. No. 1,339,131; May 4; v. 274; p. 91.
Electric currents for medical purposes, Apparatus to regulate the strength of. M. Nicolétis. No. 1,338,952; May 4; v. 274; p. 56.
Electric recorder. H. H. Welch. No. 1,338,715; May 4; v. 274; p. 12.
Electric switch. W. D. Throop. No. 1,339,306; May 4; v. 274; p. 121.
Electric-switch lock. S. D. Livingston. No. 1,339,267; May 4; v. 274; p. 114.
Electrical generation and control, System of. C. F. Kettering. No. 1,338,987; May 4; v. 274; p. 62.
Electrical resistance units, Making. C. Wirt. No. 1,338,717; May 4; v. 274; p. 13.
Electrode-holder. E. Kaaten. No. 1,339,111; May 4; v. 274; p. 87.
Electromagnetically-controlled brake. B. E. Fernow, Jr. No. 1,338,980; May 4; v. 274; p. 61.
Electrotherapeutic apparatus. W. L. Carlson and E. C. Hanson. No. 1,338,812; May 4; v. 274; p. 30.
Elevators, Automatic stop for. P. L. Manlet. (Reissue.) No. 14,853; May 4; v. 274; p. 135.
Emulsification, Method of and apparatus for. C. E. Norcross. No. 1,338,996; May 4; v. 274; p. 64.
End-matcher. W. S. Sherman. No. 1,338,704; May 4; v. 274; p. 11.
Engine: *See*—
Internal-combustion engine.
Traction-engine.
Engine-starting and automobile-lighting system. J. B. Entz. No. 1,338,857; May 4; v. 274; p. 38.
Engines, Atomizing-primer for internal-combustion. J. D. P. Lewis. No. 1,338,740; May 4; v. 274; p. 17.
Engines, Auxiliary device for gas-. J. D. Langdon. No. 1,338,938; May 4; v. 274; p. 53.
Engines, Carbon-removing means for internal-combustion. R. C. Berry. No. 1,339,014; May 4; v. 274; p. 67.
Engines, Cooling apparatus for internal-combustion. S. I. Fekete. No. 1,338,722; May 4; v. 274; p. 14.
Engines, Decarbonizer attachment for. G. McNeel. No. 1,338,993; May 4; v. 274; p. 63.
Engines, Primer for internal-combustion. H. D. Waterhouse. No. 1,339,080; May 4; v. 274; p. 80.
Engines, Reversing mechanism for fluid-. F. A. Jimerson. No. 1,338,732; May 4; v. 274; p. 16.
Engines, Starting mechanism for internal-combustion. M. M. Balsam. No. 1,338,668; May 4; v. 274; p. 4.
Expelling-pin. D. J. Bell. No. 1,339,157; May 4; v. 274; p. 94.
Experiments, Apparatus for conducting. R. W. Bennett. No. 1,338,967; May 4; v. 274; p. 58.
Explosive and preparing same, Gelatinized propellent. F. L. Nathan, W. Rintoul, and F. Baker. No. 1,338,691; May 4; v. 274; p. 8.
Eyeglass case and cleaning device. R. A. Goelkel. No. 1,339,330; May 4; v. 274; p. 125.
Fabric-frame-moving mechanism, Stopping mechanism for. B. Wetzstein. No. 1,339,049; May 4; v. 274; p. 74.
Fabrics, Forming tubular cord. J. H. and J. H., Jr., Coffey. No. 1,339,103; May 4; v. 274; p. 85.
Fan. J. Dauster. No. 1,339,169; May 4; v. 274; p. 96.
Feeding device. O. H. Hansen. No. 1,339,060; May 4; v. 274; p. 77.
Feeding mechanism. H. L. Barrett. No. 1,339,051; May 4; v. 274; p. 75.
Fertilizer-distributer. G. W. Browning. No. 1,339,256; May 4; v. 274; p. 112.
Film-reel, Fireproof. W. Rice. No. 1,339,366; May 4; v. 274; p. 132.
Filter, Rotating-screen. C. L. Peck. No. 1,338,999; May 4; v. 274; p. 64.
Filter, Water-. L. J. Stern. No. 1,339,045; May 4; v. 274; p. 74.
Fire-extinguishers, Cartridge for chemical. C. Graaff. No. 1,338,828; May 4; v. 274; p. 33.
Fire-extinguishing apparatus. C. C. Jones. No. 1,338,778; May 4; v. 274; p. 24.
Fire-shutter brake. E. H. McCloud. No. 1,339,380; May 4; v. 274; p. 135.
Firearm. O. V. Payne. No. 1,338,866; May 4; v. 274; p. 40.
Firearm-sight. C. B. Winder. No. 1,339,248; May 4; v. 274; p. 110.
Fireproof doors. E. R. Leonard. No. 1,339,205; May 4; v. 274; p. 103.
Fireproof partition. E. R. Leonard. No. 1,339,360; May 4; v. 274; p. 131.
Fish and crab trap. C. W. Mueller. No. 1,339,275; May 4; v. 274; p. 115.
Fish-lure. C. L. Smith. No. 1,338,877; May 4; v. 274; p. 42.
Fishhook. T. Coté. No. 1,338,856; May 4; v. 274; p. 38.
Fishing-tackle. H. R. Frensdorf. No. 1,339,189; May 4; v. 274; p. 100.
Flame-protector. H. Morris. No. 1,339,215; May 4; v. 274; p. 105.
Flooring, Apparatus for coating and finishing. E. C. Dittmar. No. 1,339,106; May 4; v. 274; p. 86.
Flooring, Apparatus for coating and finishing. E. C. Dittmar. No. 1,339,107; May 4; v. 274; p. 86.
Flue-cleaning machine. H. H. Jones. No. 1,339,348; May 4; v. 274; p. 129.
Fluid-heater, Electrically-operated. A. Papini. No. 1,338,997; May 4; v. 274; p. 64.
Fly-chaser. A. Brunelle. No. 1,338,810; May 4; v. 274; p. 30.
Flying-machine. G. R. Henry. No. 1,339,336; May 4; v. 274; p. 126.
Folding box. P. A. Hoffman. No. 1,339,339; May 4; v. 274; p. 127.
Food-drying apparatus. D. Lenzi. No. 1,339,032; May 4; v. 274; p. 71.
Forging. W. Klocke. No. 1,338,779; May 4; v. 274; p. 24.
Fountain, Drinking-. P. W. Blair. No. 1,339,159; May 4; v. 274; p. 94.
Fountain, Sanitary drinking-. W. F. Curran. No. 1,339,322; May 4; v. 274; p. 124.
Frame: *See*—
Printing-frame.
Reamer-frame.
Window-frame.
Fruit cutting and pitting machine. C. Oka. No. 1,339,364; May 4; v. 274; p. 132.
Fruit-juices, Treating. F. L. Dunlap and R. A. Kuever. No. 1,338,684; May 4; v. 274; p. 7.
Fruit pitter and cutter. W. N. Risdon. No. 1,339,367; May 4; v. 274; p. 132.
Fruits, vegetables, &c., Method of and apparatus for drying. G. H. Benjamin. No. 1,339,092; May 4; v. 274; p. 83.
Fuel-burner. N. C. Davison. No. 1,338,679; May 4; v. 274; p. 6.
Fuel, Composite motor-. A. Hayes. No. 1,338,982; May 4; v. 274; p. 61.
Fuel, Manufacturing gaseous. J. R. Rose. No. 1,339,225; May 4; v. 274; p. 107.
Fuel-oil burner. T. F. Krieg. No. 1,339,358; May 4; v. 274; p. 131.
Fur-screen. T. Travis. No. 1,339,240; May 4; v. 274; p. 109.
Furnace: *See*—
Annealing and heat-treating furnace.
Furnace. T. A. Peebles. No. 1,338,694; May 4; v. 274; p. 8.
Furnace for heating rods. M. Mathy. No. 1,339,034; May 4; v. 274; p. 71.

Furnace, Production of iron in an electric. G. J. Stock. No. 1,338,881; May 4; v. 274; p. 43.
Furnace temperature, Method and apparatus for controlling. G. F. Fuller. No. 1,339,190; May 4; v. 274; p. 100.
Furnaces, Controlling combustion in a plurality of. F. H. Brown. No. 1,338,902; May 4; v. 274; p. 46.
Furnaces, Device for pushing back ores into the interior of mechanical muffle roasting-. R. V. Zelewski and H. Siegel. No. 1,339,252; May 4; v. 274; p. 111.
Furnaces, Regulating combustion-. J. M. Hopwood. No. 1,338,922; May 4; v. 274; p. 50.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,898; May 4; v. 274; p. 46.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,900; May 4; v. 274; p. 46.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,901; May 4; v. 274; p. 46.
Gage: *See*—
Depth-gage. Micrometer-gage.
Game-board. L. V. Bennett. No. 1,339,013; May 4; v. 274; p. 67.
Game board, Marble-. F. A. Hulett. No. 1,339,343; May 4; v. 274; p. 128.
Game device. L. F. Pierson. No. 1,339,285; May 4; v. 274; p. 117.
Garment-hanger. A. J. Lobar. No. 1,338,783; May 4; v. 274; p. 25.
Garter, Lady's. M. de los S. Enriquez. No. 1,338,858; May 4; v. 274; p. 39.
Gas heater for automobiles, Exhaust-. F. L. Montross. No. 1,339,122; May 4; v. 274; p. 89.
Gas-washing apparatus. J. S. Kennedy. No. 1,339,112; May 4; v. 274; p. 87.
Gasolene-delivering tank. K. W. Smith. No. 1,338,878; May 4; v. 274; p. 42.
Gasolene, Electric system for storage and measurement of. G. F. Clamer. No. 1,338,814; May 4; v. 274; p. 31.
Gear, Composite. C. H. Calkins. No. 1,338,672; May 4; v. 274; p. 4.
Gear, Friction draft-. H. Yoerg. No. 1,338,893; May 4; v. 274; p. 45.
Gear-generating machine. E. R. Fellows. No. 1,338,685; May 4; v. 274; p. 7.
Gearing, Change-speed. W. C. Bucknam. No. 1,338,974; May 4; v. 274; p. 59.
Generator and timer-distributer bearing-head, Combined. A. D. T. Libby. No. 1,338,990; May 4; v. 274; p. 63.
Generators, Controlling combustion in a plurality of. F. H. Brown. No. 1,338,897; May 4; v. 274; p. 46.
Generators, Controlling combustion in a plurality of. F. H. Brown. No. 1,339,055; May 4; v. 274; p. 76.
Glass sheets, Drawing. H. G. Slingluff. No. 1,339,229; May 4; v. 274; p. 107.
Glassware, Method of and apparatus for manufacturing. E. P. Lindahl. No. 1,338,941; May 4; v. 274; p. 54.
Glove. A. M. Oathout. No. 1,339,129; May 4; v. 274; p. 90.
Golf game. C. A. Rolfe. No. 1,338,963; May 4; v. 274; p. 58.
Grab, lifting-dogs, and like lifting apparatus. W. J. Hollick. No. 1,339,341; May 4; v. 274; p. 127.
Grain-heading machines, Pusher for. E. H. Springer. No. 1,338,707; May 4; v. 274; p. 11.
Grain-separator feeder. E. M. Liebers. No. 1,339,206; May 4; v. 274; p. 103.
Graphite article and making same. S. C. Linbarger. No. 1,339,266; May 4; v. 274; p. 114.
Grease-gun attachment. J. W. Thompson. No. 1,339,237; May 4; v. 274; p. 109.
Grinding-machine, Cylindrical. B. M. W. Hanson. No. 1,339,027; May 4; v. 274; p. 70.
Grinding, polishing, and buffing machine. H. F. Albright. No. 1,339,312; May 4; v. 274; p. 122.
Grinding, polishing, and buffing machine equipment. F. S. Kochendorfer. No. 1,339,202; May 4; v. 274; p. 102.
Gun-barrels, Apparatus for forming. W. F. Cole. No. 1,339,023; May 4; v. 274; p. 69.
Gun cartridge-belts, Machine for loading machine-. R. Krenz. No. 1,339,204; May 4; v. 274; p. 103.
Gun, Self-filling grease-. K. E. Lyman. No. 1,338,743; May 4; v. 274; p. 18.
Hair-curler. C. L. Fitch. No. 1,338,687; May 4; v. 274; p. 7.
Hair-curler. H. Radzinsky. No. 1,338,748; May 4; v. 274; p. 19.
Half-spray sprinkler. V. A. H. Kahler. No. 1,339,349; May 4; v. 274; p. 129.
Hand-hole cover. W. W. Holland and F. J. Gainer. No. 1,339,340; May 4; v. 274; p. 127.
Handle: *See*—
Vacuum-cleaner handle.
Handle for various articles. M. E. Bishop. No. 1,338,968; May 4; v. 274; p. 58.
Hanger: *See*—
Bowl-hanger. Garment-hanger.
Bucket-hanger.
Harvester, Fruit-. H. N. Hickok. No. 1,339,338; May 4; v. 274; p. 127.
Harvesters, Coupling and operating device for tractor-. J. V. Ober. No. 1,339,278; May 4; v. 274; p. 116.
Hat-making machine. J. J. Tracy. No. 1,339,305; May 4; v. 274; p. 120.
Hat-ventilation means. W. H. Bauert. No. 1,339,154; May 4; v. 274; p. 94.
Head-covering. E. A. Plummer. No. 1,339,286; May 4; v. 274; p. 117.
Headlight, Dirigible. W. W. Kennard. No. 1,339,352; May 4; v. 274; p. 129.
Headlight, Dirigible. H. Nelson and J. Wedwick. No. 1,338,787; May 4; v. 274; p. 26.
Headlight, Vehicle-. W. Churchill. No. 1,338,675; May 4; v. 274; p. 5.
Heater: *See*—
Fluid-heater. Water-heater.
Heater. E. B. Cleworth. No. 1,338,855; May 4; v. 274; p. 38.
Heating apparatus. J. Ryckman. No. 1,338,965; May 4; v. 274; p. 58.
Heating system. E. P. Rich. No. 1,338,961; May 4; v. 274; p. 57.
Heddle-harness-spacer machine. F. E. Bearden. No. 1,339,313; May 4; v. 274; p. 122.
Heel for shoes, Cushion-. P. A. De Luca. No. 1,338,817; May 4; v. 274; p. 31.
Hide-stretcher. A. Berg. No. 1,339,093; May 4; v. 274; p. 83.
Hide-working machine. A. A. Hutchinson. No. 1,339,201; May 4; v. 274; p. 102.
Hockey-stick. N. T. Fogg. No. 1,338,860; May 4; v. 274; p. 39.
Hoe, extension-marker, and weeder, Combination. J. R. Randall. No. 1,339,222; May 4; v. 274; p. 106.
Hoisting apparatus and controlling means therefor. C. Zetterlund. No. 1,339,253; May 4; v. 274; p. 111.
Hoof-protector. W. J. Kent. No. 1,338,986; May 4; v. 274; p. 62.
Hook: *See*—
Tire-chain snap-hook.
Hook. C. D. Schmidt. No. 1,339,004; May 4; v. 274; p. 65.
Horse-collar sweat-pad. A. Janicki. No. 1,338,931; May 4; v. 274; p. 52.
Hose-coupling. M. C. Sharpnack. No. 1,339,141; May 4; v. 274; p. 92.
Hose-supporter. L. John. No. 1,338,733; May 4; v. 274; p. 16.
Humidifying device. W. M. Fulton. No. 1,338,916; May 4; v. 274; p. 49.
Hydraulic pressure to the interior of a tube being shaped by the self-hooping process, Apparatus for the application of. E. Schneider. No. 1,338,871; May 4; v. 274; p. 41.
Hydrocarbon-burner. M. G. Childers. No. 1,338,853; May 4; v. 274; p. 37.
Hydrocarbon-burner. A. J. and W. C. Lindemann. No. 1,339,207; May 4; v. 274; p. 103.
Ice-cream-cone carrier. F. E. McIntosh. No. 1,338,744; May 4; v. 274; p. 18.
Ice-cream-cone holder, Sanitary. S. A. Kornsweet. No. 1,338,833; May 4; v. 274; p. 34.
Ice-vending machine. G. L. Bennett. No. 1,339,053; May 4; v. 274; p. 75.
Impulse starting mechanism and operating same. M. Tost. No. 1,338,758; May 4; v. 274; p. 20.
Index, Card-. J. H. Rand. No. 1,338,789; May 4; v. 274; p. 26.
Indicator: *See*—
Aeroplane height-indicator.
Indicators, Operating means for direction-. C. H. Shipman. No. 1,339,071; May 4; v. 274; p. 79.
Insole and making same. J. W. Blakeney. No. 1,339,160; May 4; v. 274; p. 95.
Instrument-mounting. E. H. Bristol. No. 1,338,766; May 4; v. 274; p. 22.
Internal-combustion engine. L. H. Dyer. No. 1,339,176; May 4; v. 274; p. 97.
Internal-combustion engine. A. Y. Edwards. No. 1,338,721; May 4; v. 274; p. 14.
Internal-combustion engine. C. V. Fite and C. C. Coddington. No. 1,339,187; May 4; v. 274; p. 99.
Internal-combustion engine. G. S. Maxwell. No. 1,339,035; May 4; v. 274; p. 71.
Jack: *See*—
Ratchet-jack.
Jack. J. H. Dorman. No. 1,338,682; May 4; v. 274; p. 6.
Joint-assembling machine. L. L. Randall and E. A. Fries. No. 1,338,697; May 4; v. 274; p. 9.
Joint strip, Preformed expansion-. F. C. Bowman. No. 1,339,094; May 4; v. 274; p. 83.
Joints, Means for packing. W. R. Beldam. No. 1,339,156; May 4; v. 274; p. 94.
Knife-setting appliance. N. A. Lockwood. No. 1,339,210; May 4; v. 274; p. 104.
Label. S. F. Stein. No. 1,339,007; May 4; v. 274; p. 66.
Labeling-machine. C. M. C. Schou. No. 1,338,793; May 4; v. 274; p. 27.
Laces, Tool for applying tips to. T. P. Mulder. No. 1,339,217; May 4; v. 274; p. 105.
Lamp. R. A. Oldfield. No. 1,338,954; May 4; v. 274; p. 56.
Lamp-base. W. I. Kemble. No. 1,339,351; May 4; v. 274; p. 129.
Lamp-bulb extension-base. P. P. Hein. No. 1,339,333; May 4; v. 274; p. 126.
Lamp, Railway signal-. A. H. Handlan, Jr. No. 1,338,769; May 4; v. 274; p. 23.

Lamp-standards, Concrete. E. G. Perl and L. C. Boss. No. 1,339,220; May 4; v. 274; p. 106.
Land-ridging machine. V. E. Parrish. No. 1,339,040; May 4; v. 274; p. 73.
Lantern, Tubular. E. C. Everett. No. 1,338,911; May 4; v. 274; p. 48.
Latch. C. A. Massoll. No. 1,338,689; May 4; v. 274; p. 7.
Latching device. B. J. Cohon. No. 1,339,320; May 4; v. 274; p. 123.
Lathe. H. M. Lofton. No. 1,338,742; May 4; v. 274; p. 17.
Lathes, Relieving attachment for. G. D. Sundstrand. No. 1,338,757; May 4; v. 274; p. 20.
Laundry-drier. J. J. Power. No. 1,338,696; May 4; v. 274; p. 9.
Letter-holder for packages. A. P. Simao. No. 1,338,875; May 4; v. 274; p. 41.
Levers, Lock for shift-. R. J. Manley. No. 1,338,945; May 4; v. 274; p. 54.
Life-saving device. J. Sebeto. No. 1,339,227; May 4; v. 274; p. 107.
Light: *See*—
Time-controlled light.
Light-projecting apparatus. G. T. Thompson. No. 1,339,304; May 4; v. 274; p. 120.
Line-reel and marker or chalker, Combined. J. H. Kerr. No. 1,338,935; May 4; v. 274; p. 53.
Liquid-evaporator. R. T. White. No. 1,338,848; May 4; v. 274; p. 37.
Liquid-supply-control apparatus. G. Moore. No. 1,338,995; May 4; v. 274; p. 64.
Loading device. H. G. Schaefer. No. 1,339,290; May 4; v. 274; p. 118.
Lock: *See*—
Circuit-lock. Sash-lock.
Combination-lock. Switch-lock.
Door-lock. Tire-casing lock.
Electric-switch lock. Valve-lock.
Nut-lock.
Lock-washer-making machine. F. Kessel. No. 1,338,737; May 4; v. 274; p. 16.
Locking mechanism. Differential-. H. O. Darr. No. 1,338,720; May 4; v. 274; p. 13.
Locomotive driving-box. A. W. Simmons. No. 1,339,228; May 4; v. 274; p. 107.
Looms, Feeler mechanism for. A. E. Rhoades. No. 1,339,002; May 4; v. 274; p. 65.
Lug-strap support. J. P. Smith. No. 1,339,295; May 4; v. 274; p. 118.
Mail-chute. F. B. Cook. No. 1,338,975; May 4; v. 274; p. 60.
Mail-chute. F. B. Cook. No. 1,338,976; May 4; v. 274; p. 60.
Mail-chute. F. J. Wuesthoff. (Reissue.) No. 14,854; May 4; v. 274; p. 135.
Mail-chute. F. J. Wuesthoff. (Reissue.) No. 14,855; May 4; v. 274; p. 136.
Mail-exchange, Aerial. W. H. Burton and C. J. Wilkerson. No. 1,338,970; May 4; v. 274; p. 59.
Manganates, Making. C. E. Vanderkleed. No. 1,339,242; May 4; v. 274; p. 109.
Manure-loader. E. Kernen. No. 1,339,263; May 4; v. 274; p. 113.
Match-lighting device. J. E. Neahr. No. 1,338,692; May 4; v. 274; p. 8.
Match-lighter. E. J. Fisher. No. 1,339,185; May 4; v. 274; p. 99.
Match-scratcher. J. E. High. No. 1,338,920; May 4; v. 274; p. 50.
Meat-cutter safety-drive. J. Miller. No. 1,339,273; May 4; v. 274; p. 115.
Meter. L. Burnham. No. 1,338,852; May 4; v. 274; p. 37.
Micrometer-gage. F. O. Jaques, Sr. No. 1,338,932; May 4; v. 274; p. 52.
Mill: *See*—
Wet-coal mill.
Milling-machine, Double-head. C. L. Huston. No. 1,339,029; May 4; v. 274; p. 70.
Milling screw-threads, Means applicable for use in. G. Richards. No. 1,339,223; May 4; v. 274; p. 106.
Mineral-manure process. W. M. Johnson. No. 1,338,734; May 4; v. 274; p. 16.
Mold: *See*—
Plastic-block mold.
Mold pouring and weighting unit, Combined. C. K. Prince. No. 1,339,133; May 4; v. 274; p. 91.
Molding-machine. J. Knapp. No. 1,339,354; May 4; v. 274; p. 130.
Mop or brush. A. Hamilton. No. 1,339,026; May 4; v. 274; p. 70.
Motor: *See*—
Water-motor.
Motor-starting switch. H. J. L. and L. H. Frank. No. 1,338,825; May 4; v. 274; p. 32.
Muffler cut-out. N. A. Petry. No. 1,339,284; May 4; v. 274; p. 117.
Multigraph-segments, Support for. M. P. Rollins. No. 1,338,964; May 4; v. 274; p. 58.
Music-leaf turner. T. M. Jolley. No. 1,339,261; May 4; v. 274; p. 113.
Napkin-ring. J. Erdoes and E. Sas. No. 1,339,180; May 4; v. 274; p. 98.
Nest, Sanitary hen's. S. S. Good. No. 1,338,725; May 4; v. 274; p. 14.
Non-skid device. L. L. Kellogg. No. 1,338,934; May 4; v. 274; p. 52.
Nozzle, Douche-. E. V. Szyperski. No. 1,338,710; May 4; v. 274; p. 12.
Nut. T. Kinney. No. 1,339,015; May 4; v. 274; p. 87.
Nut-lock. A. C. Blake. No. 1,339,015; May 4; v. 274; p. 67.
Nut, Lock-. W. H. Gorr. No. 1,338,862; May 4; v. 274; p. 39.
Nut, Lock-. B. Miley. No. 1,339,120; May 4; v. 274; p. 88.
Nut-shaving machine. H. Anderson. No. 1,339,086; May 4; v. 274; p. 82.
Oil from vegetable seeds, and nuts, Extracting. C. Downs, R. A. Bellwood, and T. W. Turnill. No. 1,338,809; May 4; v. 274; p. 48.
Oiler, Automatic. R. G. Fiege. No. 1,338,914; May 4; v. 274; p. 49.
Ophthalmic mounting. F. A. Stevens. No. 1,338,880; May 4; v. 273; p. 42.
Optical apparatus and operating same. A. R. Dennington. No. 1,338,818; May 4; v. 274; p. 31.
Ore, Magnetic sizing and grading of. W. G. Swart, F. A. Jordan, E. W. Davis, and T. B. Counselman. No. 1,339,300; May 4; v. 274; p. 119.
Ore-separating machine. G. Demaine. No. 1,339,056; May 4; v. 274; p. 76.
Oxygen-concentrator. G. McKerahan. No. 1,339,214; May 4; v. 274; p. 104.
Package-tie. J. B. Calhoun. No. 1,339,317; May 4; v. 274; p. 123.
Packing for steam-turbine shafts. E. D. Spicer. No. 1,339,297; May 4; v. 274; p. 119.
Pad: *See*—
Blotting-pad. Sketching-pad.
Horse-collar sweat-pad.
Paper carton, Self-locking. J. B. Heiser. No. 1,339,334; May 4; v. 274; p. 126.
Paper-cup-forming machine, Automatic. W. W. Bevan and C. E. Clarke. No. 1,339,315; May 4; v. 274; p. 122.
Peanut-roaster. S. C. Peckham. No. 1,339,365; May 4; v. 274; p. 132.
Pen, Stylographic. J. Abegg. No. 1,339,011; May 4; v. 274; p. 66.
Pencil-holder. S. P. Kay. No. 1,338,933; May 4; v. 274; p. 52.
Penholder-clip. J. Kritikson. No. 1,339,359; May 4; v. 274; p. 131.
Perch, Spring. O. E. Zahn. No. 1,338,895; May 4; v. 274; p. 45.
Phonograph-stop, Automatic. W. D. Griswold. No. 1,339,058; May 4; v. 274; p. 76.
Phonograph tone-modulator. F. Myers. No. 1,338,950; May 4; v. 274; p. 55.
Phonographs, Automatic stop and start for. P. M. Krèe and F. Dauteuil. No. 1,339,203; May 4; v. 274; p. 102.
Phenolic condensation product and manufacturing. L. V. Redman, A. J. Wedth, and F. P. Brock. No. 1,339,134; May 4; v. 274; p. 91.
Photographic phonograph. F. W. Adsit. No. 1,338,719; May 4; v. 274; p. 13.
Picker: *See*—
Corn-picker.
Picture machine, Motion-. C. J. Peterson. No. 1,338,695; May 4; v. 274; p. 9.
Pipe-grip. S. Stone. No. 1,339,233; May 4; v. 274; p. 108.
Piping system. S. W. Miller. No. 1,338,994; May 4; v. 274; p. 63.
Plastic-block mold. E. J. Luttrell. No. 1,339,270; May 4; v. 274; p. 114.
Plow, Bucket. W. Watson. No. 1,339,371; May 4; v. 274; p. 133.
Pocket implement. W. R. Clough. No. 1,339,164; May 4; v. 274; p. 95.
Pole-setting device. J. H. Willis. No. 1,339,082; May 4; v. 274; p. 81.
Polysulfids and the products of such method, Stabilizing. D. Davidson. No. 1,338,678; May 4; v. 274; p. 6.
Posthole-forming machine. J. G. Miller. No. 1,338,948; May 4; v. 274; p. 55.
Power plant. L. H. Dyer. No. 1,339,177; May 4; v. 274; p. 97.
Power transmission. J. K. Delano. No. 1,339,258; May 4; v. 274; p. 112.
Power transmission. G. C. Jessup. No. 1,338,832; May 4; v. 274; p. 34.
Power-transmission machine. C. A. and H. M. Granzow. No. 1,338,767; May 4; v. 274; p. 22.
Press. R. H. Gehrke. No. 1,339,193; May 4; v. 274; p. 100.
Printing-frame. D. F. Younkin. No. 1,338,894; May 4; v. 274; p. 45.
Printing-machine. S. A. Busk. No. 1,339,099; May 4; v. 274; p. 84.
Printing-plates, Manufacture of. E. E. Novotny. No. 1,339,127; May 4; v. 274; p. 90.
Printing-press tripping mechanism. J. R. Blaine. No. 1,339,316; May 4; v. 274; p. 122.
Printing-presses, Hand-guard for. S. Kupfer. No. 1,338,780; May 4; v. 274; p. 25.
Pump. H. Jackson. No. 1,339,347; May 4; v. 274; p. 128.

Pump and compressor. J. Zwicky. No. 1,339,311; May 4; v. 274; p. 121.
Pump-coupling. F. A. Lane. No. 1,338,739; May 4; v. 274; p. 17.
Pump, Fluid-. G. Olson. No. 1,338,839; May 4; v. 274; p. 35.
Pump-operating mechanism, Oil-. D. R. Brown. No. 1,339,097; May 4; v. 274; p. 84.
Pump-piston. C. D. Brandt. No. 1,338,765; May. 4; v. 274; p. 22.
Pump-piston. W. J. Coulson. No. 1,338,906; May 4; v. 274; p. 47.
Pump-plunger. A. S. Mackenzie. No. 1,338,943; May 4; v. 274; p. 54.
Pump, Pneumatic. H. S. Rogers. No. 1,339,224; May 4; v. 274; p. 106.
Pump, Tire-. H. Taylor. No. 1,338,711; May 4; v. 274; p. 12.
Pumps, Sand-screen for. H. M. Green. No. 1,338,829; May 4; v. 274; p. 33.
Punch. P. W. and B. B. Britts. No. 1,338,969; May 4; v. 274; p. 58.
Puzzle. K. Yonemoto. No. 1,339,251; May 4; v. 274; p. 111.
Puzzle-ring and bracelet, &c. R. Brown. No. 1,338,973; May 4; v. 274; p. 59.
Rack: *See*—
Developing-rack.
Radiator. H. Sosskin. No. 1,338,753; May 4; v. 274; p. 19.
Radiator systems, Heat-storing attachment for. E. V. Schranck and E. F. Kunkel. No. 1,338,750; May 4; v. 274; p. 19.
Radiator-tubes, Method and apparatus for manufacturing. F. G. Cooke. 1,339,104; May 4; v. 274; p. 85.
Radiosignaling, Apparatus for. R. A. Weagant. No. 1,338,889; May 4; v. 274; p. 44.
Radiotelegraphy. L. F. Fuller. No. 1,339,191; May 4; v. 274; p. 100.
Radium, Producing compounds of. H. O. Hedström. No. 1,338,831; May 4; v. 274; p. 33.
Rail-anchor. C. B. Moore. No. 1,339,123; May 4; v. 274; p. 89.
Railway, Aerial. M. A. Aner. No. 1,338,663; May 4; v. 274; p. 3.
Railway-crosstie, Metallic. J. A. Hyle. No. 1,339,345; May 4; v. 274; p. 128.
Railway draft appliance. H. C. Buhoup. No. 1,339,020; May 4; v. 274; p. 68.
Railway-frog. B. J. Morgan. No. 1,338,786; May 4; v. 274; p. 26.
Railway safety device. W. A. and C. N. Rockwell. No. 1,339,136; May 4; v. 274; p. 91.
Railway-tie, Metallic. C. H. Swartwood. No. 1,339,301; May 4; v. 274; p. 119.
Railway-tracks, Machine for ballasting. D. J. Dobson. No. 1,338,681. May 4; v. 274; p. 6.
Range. H. D. Schall. No. 1,338,870; May 4; v. 274; p. 41.
Range, Combined solid and gaseous fuel. H. H. Sanford. No. 1,338,701; May 4; v. 274; p. 10.
Range-finder or telemeter. C. Hymans. No. 1,338,985; May 4; v. 274; p. 62.
Range-finding and like instrument. H. D. Taylor. No. 1,339,235; May 4; v. 274; p. 108.
Rat-trap. J. W. Richards. No. 1,339,135; May 4; v. 274; p. 91.
Ratchet-jack. J. C. Kopf. No. 1,339,377; May 4; v. 274; p. 134.
Razor. J. L. Crawford. No. 1,338,908; May 4; v. 274; p. 48.
Reamer-frame. R. S. MacEwan. No. 1,339,118; May 4; v. 274; p. 88.
Receptacle or pocket and method of making same. V. H. Jennings. No. 1,338,776; May 4; v. 274; p. 24.
Reed articles, Apparatus for producing woven-. M. B. Lloyd. No. 1,339,064; May 4; v. 274; p. 78.
Reed articles, Method and means for producing woven-. M. B. Lloyd. No. 1,339,063; May 4; v. 274; p. 77.
Reel: *See*—
Film-reel.
Reel-mount. C. W. Tillman. No. 1,339,238; May 4; v. 274; p. 109.
Refrigerating-machines, Safety device for use in connection with. F. A. Willcox. No. 1,339,244; May 4; v. 274; p. 110.
Refrigerator-lining. H. Gelke. No. 1,339,328; May 4; v. 274; p. 125.
Regulating mechanism. J. M. Hopwood. No. 1,338,929; May 4; v. 274; p. 51.
Regulating system. W. R. Woodward. No. 1,338,718; May 4; v. 274; p. 13.
Regulation and apparatus therefor. J. M. Hopwood. No. 1,338,928; May 4; v. 274; p. 51.
Ribbon movement. L. R. Roberts. No. 1,338,699; May 4; v. 274; p. 10.
Ring: *See*—
Napkin-ring.
Rivet, Two-part self-locking. H. B. Hemingway. No. 1,339,197; May 4; v. 274; p. 101.
Roadbeds, Apparatus for laying. R. E. Rodgers and T. C. Jackson. No. 1,339,069; May 4; v. 274; p. 78.
Roadway. L. P. Turner and J. R. Burrill. No. 1,338,801; May 4; v. 274; p. 28.
Rock-drills when stuck, Device for pulling. G. Davidson. No. 1,339,024; May 4; v. 274; p. 69.
Rod-splicing clamp. B. M. Mathias. No. 1,338,746; May 4; v. 274; p. 18.
Roll-cooling means. T. D. Hodge. No. 1,339,108; May 4; v. 274; p. 86.
Roofing, Manufacturing prepared. S. M. Ford. No. 1,339,327; May 4; v. 274; p. 125.
Rule. E. G. Rios. No. 1,338,962. May 4; v. 274; p. 57.
Saddle, Running-board. D. W. Hawksworth. No. 1,338,728; May 4; v. 274; p. 15.
Safety device. W. F. Purcell. No. 1,338,867; May 4; v. 274; p. 40.
Salting-machine. P. W. Mackenrot. No. 1,339,212; May 4; v. 274; p. 104.
Salvaging apparatus. H. D. Deam. No. 1,338,816; May 4; v. 274; p. 31.
Sash-lock. J. E. L'heureux. No. 1,339,362; May 4; v. 274; p. 131.
Sash-operating mechanism. W. A. Burnham. No. 1,338,671; May 4; v. 274; p. 4.
Saw attachment. A. O. Schaefer. No. 1,339,139; May 4; v. 274; p. 92.
Saw, Chain. C. Benefiel. No. 1,339,091; May 4; v. 274; p. 83.
Saw-filing machine. W. Bank. No. 1,339,153; May 4; v. 274; p. 93.
Scale, Automatic weighing-. H. E. Earl. No. 1,339,326; May 4; v. 274; p. 124.
Screen: *See*—
Fur-screen.
Screws and bolts, Lock-housing for. W. H. Toelle. No. 1,339,075; May 4; v. 274; p. 80.
Screws, Means for measuring the pitch of. W. Bolton and E. T. Bishop. No. 1,338,670; May 4; v. 274; p. 4.
Scrub-brushes, Soap-holding attachment for. H. E. Adams. No. 1,338,665; May 4; v. 274; p. 3.
Separator: *See*—
Cranberry-separator.
Sewer-block. J. E. Ulm. No. 1,338,885; May 4; v. 274; p. 43.
Sewing-machine. K. Vesely. No. 1,339,243; May 4; v. 274; p. 109.
Sewing-machines, Presser-foot for. J. R. Moffatt. No. 1,339,121; May 4; v. 274; p. 89.
Sewing-machines, Stocking-guide for. J. L. Stengel. No. 1,339,230; May 4; v. 274; p. 107.
Sextant. A. Hughes. No. 1,339,342; May 4; v. 274; p. 128.
Shaft-coupling. W. E. Schwarzman and F. D. Norman. No. 1,338,751; May 4; v. 274; p. 19.
Sharpener, Disk-. J. J. Schmidt. No. 1,339,043; May 4; v. 274; p. 73.
Shears, Grass-border. H. B. Scott. No. 1,338,873; May 4; v. 274; p. 41.
Shell for machine-guns. M. A. Walker. No. 1,338,802; May 4; v. 274; p. 29.
Ship-launching control device. J. G. Sjoberg. No. 1,339,293; May 4; v. 274; p. 118.
Ship-protecting device. E. A. Smith. No. 1,338,706; May 4; v. 274; p. 11.
Ships against torpedo attack, Protection of. L. E. Whiton. No. 1,339,372; May 4; v. 274; p. 133.
Shoe-uppers, Machine for lacing. H. E. Ensilin. No. 1,338,910; May 4; v. 274; p. 48.
Shoe, Wooden-sole working-. G. W. Miller. No. 1,338,947; May 4; v. 274; p. 55.
Shorthand-machine. W. S. Ireland. No. 1,339,346; May 4; v. 274; p. 128.
Shuttle, Pick take-up. A. R. Eanes, Jr. No. 1,338,820; May 4; v. 274; p. 32.
Signal: *See*—
Automobile-signal.
Signaling-boiler. M. Kelley. No. 1,339,350; May 4; v. 274; p. 129.
Signaling, Light-. A. Ames, Jr. No. 1,339,085; May 4; v. 274; p. 81.
Sizing or separating apparatus. W. E. Bryan. No. 1,339,161; May 4; v. 274; p. 95.
Skate, Mechanical roller-. A. Chiarelli. No. 1,338,813; May 4; v. 274; p. 30.
Sketching-pad, Loose-leaf. A. R. Nadel. No. 1,338,951; May 4; v. 274; p. 56.
Smoke, Colored. E. C. Weisgerber. No. 1,339,142; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,143; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,144; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,145; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,146; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,147; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,148; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,149; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,150; May 4; v. 274; p. 93.
Soap-container. W. A. Collins. No. 1,339,166; May 4; v. 274; p. 96.

Soap-making apparatus. H. J. Nicholls. No. 1,339,126; May 4; v. 274; p. 90.
Solder, Manufacturing. E. E. P. J. P. S. J. de St. Laurent. No. 1,338,966; May 4; v. 274; p. 58.
Soldering-machines. M. E. Widell. No. 1,338,716; May 4; v. 274; p. 13.
Sole-fitting machine. F. H. Perry. No. 1,338,957; May 4; v. 274; p. 57.
Sorting apparatus. G. S. Helenbolt. No. 1,338,729; May 4; v. 274; p. 15.
Sound-producing apparatus. J. Björnstad. No. 1,339,158; May 4; v. 274; p. 94.
Spacing device. G. H. Tod and E. H. Beck. No. 1,338,800; May 4; v. 274; p. 28.
Spark-coil. J. F. Cavanagh. No. 1,339,100; May 4; v. 274; p. 84.
Spark-plug. A. J. Champion. No. 1,338,674; May 4; v. 274; p. 5.
Spear and cutter, Combination. J. F. Hill. No. 1,338,773; May 4; v. 274; p. 23.
Spindle: *See*—
Ball-bearing spindle. Tool-carrying spindle.
Spring: *See*—
Automobile-spring. Vehicle-spring.
Spring-wheel. M. Levy. No. 1,339,361; May 4; v. 274; p. 131.
Spring-wheel. T. N. Petrovic. No. 1,339,132; May 4; v. 274; p. 91.
Sprinkler: *See*—
Half-spray sprinkler.
Stable-cleaning means. E. W. Bascom. No. 1,339,089. May 4; v. 274; p. 82.
Stage-illusion effect. F. J. Oebbecke. No. 1,339,279; May 4; v. 274; p. 116.
Stamp-affixing machine. W. J. Davis. No. 1,338,978; May 4; v. 274; p. 60.
Stamping-machine. F. B. Wischhusen. No. 1,339,050; May 4; v. 274; p. 75.
Standpipe. H. E. Thompson, R. B. Linsley, and M. H. Rix. No. 1,338,846; May 4; v. 274; p. 36.
Stationery appliance. E. P. Beckwith. No. 1,339,155; May 4; v. 274; p. 94.
Steels and iron, Composition of matter for use in welding. E. D. Kendall. No. 1,338,736; May 4; v. 274; p. 16.
Steering device. N. Small. No. 1,339,294; May 4; v. 274; p. 118.
Steering device. C. Walters, Jr. No. 1,339,048; May 4; v. 274; p. 74.
Stop device. F. Bauer. No. 1,339,052; May 4; v. 274; p. 75.
Storage of energy due to an explosion. G. Constantinesco and J. R. Middleton. No. 1,338,676; May 4; v. 274; p. 5.
Stove, Alcohol-. J. Grochmal. No. 1,339,059; May 4; v. 274; p. 77.
Stove attachment. B. Lucas. No. 1,339,268; May 4; v. 274; p. 114.
Stove, Heating-. E. O. Parr. No. 1,339,039; May 4; v. 274; p. 72.
Stove, Oil heating-. W. C. Lindemann. No. 1,339,208; May 4; v. 274; p. 103.
Strainer. A. J. E. Munters. No. 1,339,037; May 4; v. 274; p. 72.
Strainer, Teapot-. D. V. Strong. No. 1,339,008; May 4; v. 274; p. 66.
Stretcher. M. V. Hubbard. No. 1,338,774; May 4; v. 274; p. 24.
Structural bar. K. R. Schuster. No. 1,339,226; May 4; v. 274; p. 107.
Superheater-header. B. Broido. No. 1,338,972; May 4; v. 274; p. 59.
Suspender-link. J. F. Bear. No. 1,338,850; May 4; v. 274; p. 37.
Swagger-stick. J. M. Callahan. No. 1,339,162; May 4; v. 274; p. 95.
Swagger-stick. J. M. Callahan. No. 1,339,257; May 4; v. 274; p. 112.
Swaging-machine for making U-shaped pipe-bends. C. A. W. Brandt and A. J. Langeller. No. 1,339,054; May 4; v. 274; p. 75.
Swing, Chair-. J. W. Sparks. No. 1,339,296; May 4; v. 274; p. 119.
Swith: *See*—
Cross-bar switch. Motor-starting switch.
Electric switch. Tumbler-switch.
Switch-lock. B. P. Swyers. No. 1,339,302; May 4; v. 274; p. 120.
Table: *See*—
Camp-table. Chiropractor's table.
Table for use of chiropractors, Portable adjusting-. S. E. Kaufman. No. 1,338,735; May 4; v. 274; p. 16.
Tack, Thumb-. Y. Kinoshita. No. 1,338,988; May 4; v. 274; p. 62.
Talking-machine repeating attachment. J. C. Hitchner. No. 1,339,199; May 4; v. 274; p. 102.
Talking-machine sound-box. G. Hetherington. No. 1,339,337; May 4; v. 274; p. 127.
Tank: *See*—
Gasolene-delivering tank.
Tank and forming same. R. D. Johnson. No. 1,339,062; May 4; v. 274; p. 77.
Tar, Producing resinous bases from. E. Wirth. No. 1,339,310; May 4; v. 274; p. 121.
Tars and pyroligneous acid, Separating wood-. W. E. Clifford. No. 1,339,022; May 4; v. 274; p. 69.
Telegraph and telephone circuits, Receiver for wireless-. F. E. Summers. No. 1,338,756; May 4; v. 274; p. 20.
Telephone-exchange system. J. L. Wright. No. 1,339,010; May 4; v. 274; p. 66.
Telephone-receiver holder. J. Levy. No. 1,338,781; May 4; v. 274; p. 25.
Telephone system, Two-wire multiple automatic. B. G. Dunham. No. 1,339,175; May 4; v. 274; p. 97.
Testing process. M. A. Laabs. No. 1,339,031; May 4; v. 274; p. 71.
Thawing ground. J. H. Miles. No. 1,339,036; May 4; v. 274; p. 72.
Thermometer-holder. H. J. Richards. No. 1,339,288; May 4; v. 274; p. 117.
Thermophone-blanks, Machine for making. A. M. van Doorn. No. 1,338,886; May 4; v. 274; p. 43.
Thermophones, Machine for finishing. A. M. van Doorn. No. 1,338,887; May 4; v. 274; p. 44.
Thermophones, Making. A. M. van Doorn. No. 1,338,888; May 4; v. 274; p. 44.
Ticket, Shipping-. C. F. Handshy and W. P. Potter. No. 1,338,770; May 4; v. 274; p. 23.
Tie: *See*—
Package-tie. Railway-tie.
Tile, Roofing-. J. M. Martin. No. 1,339,033; May 4; v. 274; p. 71.
Timber-cutting machine. J. R. Davenport. No. 1,338,977; May 4; v. 274; p. 60.
Time-controlled light. J. M. Terzich. No. 1,339,236; May 4; v. 274; p. 108.
Timing mechanism for intermittently-fed machines. C. P. Wetmore. No. 1,338,761; May 4; v. 274; p. 21.
Tire armor, Vehicle-. V. P. Ratzburg. No. 1,338,842; May 4; v. 274; p. 35.
Tire armor, Vehicle-. V. P. Ratzburg. No. 1,338,843; May 4; v. 274; p. 36.
Tire-casing lock. T. E. Cook and A. T. Freije. No. 1,338,677; May 4; v. 274; p. 5.
Tire chain, Automobile-. M. C. Hart. No. 1,338,772; May 4; v. 274; p. 23.
Tire-chain snap-hook. J. P. Fennessy. No. 1,338,686; May 4; v. 274; p. 7.
Tire filler and tester. C. W. Pelton and J. P. Barbour. No. 1,339,041; May 4; v. 274; p. 73.
Tire, Folding emergency-. E. A. Beaulieu. No. 1,338,807; May 4; v. 274; p. 29.
Tire-molds, Means for stacking. B. H. Rose. No. 1,338,844; May 4; v. 274; p. 36.
Tire-retreading apparatus. R. A. Brooks. (Reissue.) No. 14,852; May 4; v. 274; p. 135.
Tires, Inner tube for. J. A. Perkins. No. 1,339,283; May 4; v. 274; p. 116.
Tobacco-curing. A. C. Buensod. No. 1,339,373; May 4; v. 274; p. 133.
Tobacco-curing. A. C. Buensod. No. 1,339,374; May 4; v. 274; p. 134.
Tobacco curing and treating. A. C. Buensod. No. 1,339,375; May 4; v. 274; p. 134.
Tobacco-leaf, Process and apparatus for stripping. O. Hammerstein. No. 1,338,768; May 4; v. 274; p. 22.
Toilet article. N. A. Levitan. No. 1,339,265; May 4; v. 274; p. 113.
Tool, Antiskid-chain. D. C. Woodworth. No. 1,338,804; May 4; v. 274; p. 29.
Tool-carrying spindle. C. E. Van Norman. No. 1,339,308; May 4; v. 274; p. 121.
Tool-handles, Two-part self-locking rivet for. H. B. Hemingway. No. 1,339,198; May 4; v. 274; p. 101.
Tool-holder, Pocket. M. Manning. No. 1,339,213; May 4; v. 274; p. 104.
Tooth, Artificial. L. L. Poston. No. 1,338,959; May 4; v. 274; p. 57.
Tooth-brush, Rotary. M. Eisner and A. M. Freeman. No. 1,338,821; May 4; v. 274; p. 32.
Torch for gas-burners, Ignition-. E. L. Claus. No. 1,339,102; May 4; v. 274; p. 85.
Torch, Liquid-fuel. A. J. Prelning. No. 1,338,840; May 4; v. 274; p. 35.
Torpedo, Aerial. M. H. Fahrenholz. No. 1,339,181; May 4; v. 274; p. 98.
Torpedo, Aerial. J. Frecska. No. 1,339,188; May 4; v. 274; p. 100.
Toy. F. M. Collins and J. H. Glenn. No. 1,339,165; May 4; v. 274; p. 95.
Toy and savings-bank, Combined. R. E. and N. Starkie. No. 1,338,879; May 4; v. 274; p. 42.
Toy, Dancing-figure. F. Majewski. No. 1,338,944; May 4; v. 274; p. 54.
Traction-engine. M. Stahl. No. 1,338,754; May 4; v. 274; p. 20.
Tractor. W. L. Hendricks. No. 1,338,919; May 4; v. 274; p. 50.
Tractor. J. L. Lake and F. D. McMahon. No. 1,338,835; May 4; v. 274; p. 34.
Tractor comprising a driving and steering wheel. C. M. Motte. No. 1,338,837; May 4; v. 274; p. 34.
Tractor, Motor. T. F. McCallister. No. 1,339,271; May 4; v. 274; p. 114.
Transformer. C. H. Thordarson. No. 1,338,884; May 4; v. 274; p. 43.
Transmission. F. V. Johnson. No. 1,338,777; May 4; v. 274; p. 24.

Transit, Illuminated. D. W. Brunton. No. 1,339,019; May 4; v. 274; p. 68.
Trap: *See*—
Rat-trap.
Vacuum and return steam-trap.
Trimming or planing machine, Surface. T. J. Dempsey. No. 1,339,172; May 4; v. 274; p. 97.
Trolley-arms, Locking device for derailed-. C. E. and P. Pigache. No. 1,339,221; May 4; v. 274; p. 106.
Truck. W. F. Irrgang. No. 1,339,109; May 4; v. 274; p. 86.
Truck and wagon dump, Combination. F. W. Swanson. No. 1,338,798; May 4; v. 274; p. 28.
Truck construction and drive, Motor-. W. S. Morton. No. 1,339,124; May 4; v. 274; p. 89.
Trucks, Steering mechanism for motor-. W. S. Morton. No. 1,339,125; May 4; v. 274; p. 89.
Trunk and suitcase fastener. C. E. Duggan. No. 1,339,174; May 4; v. 274; p. 97.
Truss. B. Lloid. No. 1,338,991; May 4; v. 274; p. 66.
Tub-beater. J. E. Salsman. No. 1,338,869; May 4; v. 274; p. 40.
Tube: *See*—
Tire inner tube.
Tubes, Apparatus for self-hooping. E. Schneider. No. 1,338,872; May 4; v. 274; p. 41.
Tumbler-switch. H. J. Dean-Osgood. No. 1,339,171; May 4; v. 274; p. 96.
Turbine. J. H. Felthousen. No. 1,339,183; May 4; v. 274; p. 99.
Turbine, Steam-. A. A. E. Sterzing. No. 1,338,708; May 4; v. 274; p. 11.
Turnstile. C. D. Trubenbach and D. B. Sanneman. No. 1,339,076; May 4; v. 274; p. 80.
Twyer. G. Rowley. No. 1,338,700; May 4; v. 274; p. 10.
Typewriting-machine. P. Roble. No. 1,339,369; May 4; v. 274; p. 133.
Typewriting-machine. J. Waldheim. No. 1,339,078; May 4; v. 274; p. 80.
Undergarment. P. A. Luckett. No. 1,339,116; May 4; v. 274; p. 88.
Undergarment, Combination-. A. B. Sanders. No. 1,339,070; May 4; v. 274; p. 79.
Unloader, Hydraulic. G. Waldref. No. 1,339,079; May 4; v. 274; p. 80.
Upholstery-fold. T. G. Paddack. No. 1,339,281; May 4; v. 274; p. 116.
Upholstery-spring construction. L. A. Young. No. 1,338,806; May 4; v. 274; p. 29.
Vacuum and return steam-trap. W. E. Tillinghast. No. 1,339,074; May 4; v. 274; p. 79.
Vacuum-cleaner handle. D. B. Replogle. No. 1,338,791; May 4; v. 274; p. 27.
Valve. C. W. Larner. No. 1,339,114; May 4; v. 274; p. 87.
Valve. H. F. Niles. No. 1,338,838; May 4; v. 274; p. 35.
Valve. W. A. Shimp. No. 1,338,705; May 4; v. 274; p. 11.
Valve. W. H. Washburne. No. 1,338,759; May 4; v. 274; p. 21.
Valve, Check-. E. S. Church. No. 1,339,101; May 4; v. 274; p. 85.
Valve, Dust-. S. J. Speicher. No. 1,339,005; May 4; v. 274; p. 66.
Valve-flushing means. W. J. Coulson. No. 1,338,907; May 4; v. 274; p. 47.
Valve-lock. J. D. Farmer. No. 1,338,912; May 4; v. 274; p. 48.
Valve mechanism, Thermostatic. F. W. and G. A. Robertshaw. No. 1,339,368; May 4; v. 274; p. 132.
Valve, Oscillating. A. R. Jarman. No. 1,339,110; May 4; v. 274; p. 86.
Valve, Thermostatic. E. E. Gold. No. 1,339,057; May 4; v. 274; p. 76.
Vaporizing device. A. W. Thompson and E. W. Comfort. No. 1,339,303; May 4; v. 274; p. 120.
Vegetable-cutter. W. Zitella. No. 1,339,254; May 4; v. 274; p. 112.
Vehicle attachment. A. D. Willmore. No. 1,339,246; May 4; v. 274; p. 110.
Vehicle construction, Motor-. K. G. Lundin. No. 1,339,269; May 4; v. 274; p. 114.
Vehicle, Motor-driven. J. Dean. No. 1,338,680; May 4; v. 274; p. 6.
Vehicle-spring. E. Clark. No. 1,338,854; May 4; v. 274; p. 38.
Vehicles, Support for running-boards for. C. B. Baker. No. 1,339,379; May 4; v. 274; p. 135.
Vessel, Concrete. L. Coke-Hill. No. 1,338,815; May 4; v. 274; p. 31.
Vibrator. G. P. Elmen. No. 1,339,179; May 4; v. 274; p. 98.
Violin-tailpiece. R. E. Halstead. No. 1,339,196; May 4; v. 274; p. 101.
Vulcanizer. G. S. Andrus. No. 1,339,151; May 4; v. 274; p. 93.
Wagon or trailer tongues, Coupling device or splice for. C. A. Hennicke. No. 1,339,335; May 4; v. 274; p. 126.
Ware to leers, Mechanism for transferring. C. R. Lott. No. 1,338,992; May 4; v. 274; p. 63.
Warping-machines, Pneumatic lint-cleaner for. J. E. Farrell. No. 1,339,182; May 4; v. 274; p. 99.
Washboard. A. Horton. No. 1,338,930; May 4; v. 274; p. 52.
Washboard. G. W. Shoemaker. No. 1,339,292; May 4; v. 274; p. 118.
Water-heater. E. T. Wells. No. 1,338,760; May 4; v. 274; p. 21.
Water-motor. W. H. Ammons. No. 1,339,012; May 4; v. 274; p. 67.
Water-power apparatus. W. H. Wilber. 1,338,890; May 4; p. 44;
Wave-changer and wave-meter. G. Hill. No. 1,338,984; May 4; v. 274; p. 61.
Welding-machine, Electrical. E. M. Bassler. No. 1,338,762; May 4; v. 274; p. 21.
Wet-coal mill, J. M. Schutz. No. 1,338,845; May 4; v. 274; p. 36.
Wheel: *See*—
Automobile-wheel. Spring-wheel.
Car-wheel.
Wheel, M. Lachman. No. 1,338,936; May 4; v. 274; p. 53.
Wheel, S. C. Rose. No. 1,339,376; May 4; v. 274; p. 134.
Wheel transmission, Star-. M. Figour. No. 1,338,823; May 4; v. 274; p. 32.
Wheels, Machine for cleaning truck-. F. J. Wagner. No. 1,338,714; May 4; v. 274; p. 12.
Winding and dyeing machine and winding and dyeing yarn and thread. J. A. Firsching. No. 1,339,184; May 4; v. 274; p. 99.
Window attachment. M. P. Dysart. No. 1,339,178; May 4; v. 274; p. 98.
Window-frame. H. P. Davis. No. 1,339,170; May 4; v. 274; p. 96.
Windshield-cleaner. L. H. Morse and J. J. Tracy. No. 1,339,216; May 4; v. 274; p. 105.
Windshield-cleaner, Duplex. H. C. Tripp. No. 1,339,241; May 4; v. 274; p. 109.
Wood being distilled, Holder for. A. C. Badger. No. 1,338,667; May 4; v. 274; p. 3.
Wood, Ornamenting. H. E. De Vries. No. 1,339,259; May 4; v. 274; p. 112.
Woven carrier. G. W. Spalding. No. 1,338,794; May 4; v. 274; p. 27.
Woven carrier. C. I. Sullivan. No. 1,338,797; May 4; v. 273; p. 28;
Woven pocketed carrier. G. W. Spalding. No. 1,338,795; May 4; v. 274; p. 27.

ALPHABETICAL LIST OF DESIGNS.

Automobile. Harry A. Miller. No. 55,070; May 4; v. 274; p. 146.
Badge, emblem, or similar article. H. E. Alsterlund. Nos. 55,013–4; May 4; v. 274; p. 136.
Basket, Novelty-. T. Kirchen. No. 55,055; May 4; v. 274; p. 143.
Belt. F. F. Knothe. No. 55,056; May 4; v. 274; p. 143.
Belt-clasp. W. E. Rounseville. Nos. 55,081–2; May 4; v. 274; p. 148.
Bottle, Perfumery-. R. Campdera and F. Ayala. No. 55,024; May 4; v. 274; p. 138.
Box, Housemaid's. T. G. Blood. No. 55,023; May 4; v. 274; p. 138.
Burner, Oil-. R. L. Doran. No. 55,028; May 4; v. 274; p. 138.
Button. J. R. Bellis. No. 55,018; May 4; v. 274; p. 137.
Button. C. Hallauer. No. 55,037; May 4; v. 274; p. 140.
Button, brooch, badge, or similar article. N. B. Le Duc. No. 55,061; May 4; v. 274; p. 144.
Cabinet, Phonograph-. R. W. Morrison. No. 55,073; May 4; v. 274; p. 146.
Cabinet, Phonographic-disk-record. E. M. Howard. No. 55,045; May 4; v. 274; p. 141.
Cabinet, Talking-machine. M. F. Pybush. No. 55,033; May 4; v. 274; p. 139.
Cabinet, Talking-machine. D. C. Williams. No. 55,103; May 4; v. 274; p. 151.
Candle. C. J. Messer. No. 55,066; May 4; v. 274; p. 145.
Cemetery-lot coping. J. E. Lutz. No. 55,064; May 4; v. 274; p. 144.
Clock-casing. H. W. Bennet. No. 55,019; May 4; v. 274; p. 137.
Cup, Sundae-. A. F. Saunders. No. 55,085; May 4; v. 274; p. 148.
Display-stand. J. P. Stetson. No. 55,098; May 4; v. 274; p. 151.
Doll. J. D. Benvenuti. No. 55,020; May 4; v. 274; p. 137.
Doll. F. B. Hatch. No. 55,040; May 4; v. 274; p. 141.
Doll-head. A. Neble. No. 55,074; May 4; v. 274; p. 146.
Doll, Sammy Sandman. F. Obrecht. No. 55,076; May 4; v. 274; p. 147.
Emblem, badge, or similar article. A. G. Seeholzer. No. 55,088; May 4; v. 274; p. 149.
Emblem, badge, pin, ornament, or similar article. F. L. Wilmarth. No. 55,105; May 4; v. 274; p. 152.
Emblem, badge, pin, fob, ring, or like article. R. L. Hatfield. No. 55,041; May 4; v. 274; p. 141.
Fan, Hand or toilet. I. H. Lesem; No. 55,062; May 4; v. 274; p. 144.
Flag. J. C. M. Garnett. No. 55,034; May 4; v. 274; p. 139.
Flag, Naval service-. J. J. McKee. No. 55,069; May 4; v. 274; p. 146.
Fountain, Sanitary. T. Lloyd. No. 55,063; May 4; v. 274; p. 144.
Game apparatus. J. Sharpe. No. 55,092; May 4; v. 274; p. 150.
Goggles. F. Willson. No. 35,104; May 4; v. 274; p. 152.
Hairpin. A. Janiecz. No. 55,052; May 4; v. 274; p. 142.
Insulator-porcelain for electric ovens. F. W. Moffat. No. 55,071; May 4; v. 274; p. 146.
Jack, Lifting-. E. E. Arnold. Nos. 55,015–6; May 4; v. 274; p. 136–7.
Lace. P. Eberhart. No. 55,030; May 4; v. 274; p. 139.
Lace for trimming purposes. W. H. Smith. No. 55,095; May 4; v. 274; p. 150.
Lamp, Auto tail-. W. Berk. No. 55,021; May 4; v. 274; p. 137.
Lamp-box. S. Smigielski. No. 55,093; May 4; v. 274; p. 150.
Lever for a sprinkler-head or similar article, Retainer-. J. R. Hamilton. No. 55,038; May 4; v. 274; p. 140.
Liquid-projecting device. M. W. Bailey. No. 55,017; May 4; v. 274; p. 137.
Medal. A. de Lantrepne and H. M. Mesrines. No. 55,027; May 4; v. 274; p. 138.
Milk-jar. G. F. McDonnell and J. J. Dandoy. No. 55,068; May 4; v. 274; p. 145.
Musical instrument. A. Kregling. No. 55,058; May 4; v. 274; p. 143.
Pad-rack. S. D. Page. No. 55,077; May 4; v. 274; p. 147.
Phonograph-needle. R. Steinert. No. 55,097; May 4; v. 274; p. 150.
Phonograph-record. M. Kazanjian. No. 55,053; May 4; v. 274; p. 142.
Pin or similar article. T. Heath. No. 55,042; May 4; p. 274; p. 141.
Pin, Service-. W. A. Hartline. No. 55,039; May 4; v. 274; p. 140.
Powder-can or similar receptacle. C. S. Humphrey. No. 55,047; May 4; v. 274; p. 142.
Powder-container. C. S. Humphrey. No. 55,046; May 4; v. 274; p. 141.
Radiator. J. A. Hinger. No. 55,043–4; May 4; v. 274; p. 141.
Radiator-cap ornament. H. H. Moor. No. 55,072; May 4; v. 274; p. 146.
Searchlight. A. C. Wood. No. 55,106; May 4; v. 274; p. 152.
Sled, Child's. M. F. Sullivan. No. 55,099; May 4; v. 274; p. 151.
Spark-intensifier, Housing for. M. H. J. Masonoff. No. 55,065; May 4; v. 274; p. 145.
Spoon. H. G. Essayan. No. 55,031; May 4; v. 274; p. 139.
Spoon, fork, or similar article handle. A. H. Staf. No. 55,096; May 4; v. 274; p. 150.
Sundae-holder. A. F. Saunders. No. 55,086; May 4; v. 274; p. 149.
Surf-board. D. L. Ranlett. No. 55,079; May 4; v. 274; p. 147.
Switch base, Plural-pole entrance-. I. R. Seltzer. No. 55,090; May 4; v. 274; p. 149.
Tablet, Memorial. C. H. Sedell, C. C. Whelan, and M. Belfry. No. 55,089; May 4; v. 274; p. 149.
Tableware article, Hollow china. J. B. McDonald. No. 55,067; May 4; v. 274; p. 145.
Talking-machine sound-conducting device. F. Cirelli. No. 55,025; May 4; v. 274; p. 138.
Tire. I. V. Humphrey. No. 55,048; May 4; v. 274; p. 142.
Tire. E. A. Reid. No. 55,080; May 4; v. 274; p. 147.
Tire. A. B. Schleicher. No. 55,087; May 4; v. 274; p. 149.
Tire. J. Tenney, Jr. No. 55,100; May 4; v. 274; p. 151.
Tire, Elastic vehicle-. F. E. Shannon. No. 55,091; May 4; v. 274; p. 149.
Tire, Elastic vehicle-. E. H. Trump. No. 55,101; May 4; v. 274; p. 151.
Tire-tread. W. H. Clarke. No. 55,026; May 4; v. 274; p. 138.
Tire-tread, Pneumatic-. L. E. Kraft. No. 55,057; May 4; v. 274; p. 143.
Tire, Vehicle-. G. C. Large. No. 55,059; May 4; v. 274; p. 143.
Tire, Vehicle-. H. J. Smith. No. 55,094; May 4; v. 274; p. 150.
Toy. J. Tabara. No. 55,083; May 4; v. 274; p. 148.
Toy aeroplane. L. B. Nicholas. No. 55,075; May 4; v. 274; p. 147.
Toy animal. K. Pasecky. No. 55,078; May 4; v. 274; p. 147.
Toy automobile. H. W. A. Fuhrmann. No. 55,032; May 4; v. 274; p. 139.
Toy, Flying. W. H. Van Shrum. No. 55,102; May 4; v. 274; p. 151.
Toy known as a go-beel. A. L. Greenfield. No. 55,036; May 4; v. 274; p. 140.
Toy motion-picture machine. I. Marks. No. 55,107; May 4; v. 274; p. 152.
Toy top. A. E. Sandstrom. No. 55,084; May 4; v. 274; p. 148.
Trail-marker. J. B. Blair. No. 55,022; May 4; v. 274; p. 137.
Type, Font of Syriac. S. A. Jacobs. Nos. 55,049–51; May 4; v. 274; p. 142.
Vehicle, Child's. H. R. Keeney. No. 55,054; May 4; v. 274; p. 143.
Wagon, Boy's. R. Larson. No. 55,060; May 4; v. 274; p. 144.
Watch-bow. A. M. Dueber. No. 55,029; May 4; v. 274; p. 139.
Watch-stand. L. M. Giroux. No. 55,035; May 4; v. 274; p. 140.

ALPHABETICAL LIST OF TRADE-MARKS.

Abrasives. American Abrasive Company. No. 130,603; May 4; v. 274; p. 181.
Account-books, Bank-deposit. F. A. Gesell. No. 130,730; May 4; v. 274; p. 175.
Accountants' books. A. van Sand. No. 131,256; May 4; v. 274; p. 201.
Advertising display apparatus, Electric. C. D. Oversmith. No. 130,856; May 4; v. 274; p. 189.
Alloy rolls for rolling-mills, &c. Philadelphia Roll & Machine Company. No. 130,865; May 4; v. 274; p. 189.
Amusement devices. W. N. Ridgway. No. 130,883; May 4; v. 274; p. 189.
Apparel, Wearing. H. D. Lee Mercantile Co. No. 130,792; May 4; v. 274; p. 187.
Apples, Fresh. F. S. Millichamp. No. 130,929; May 4; v. 274; p. 191.
Apples, Fresh. Yucaipa Apple Growers' Association. No. 131,274; May 4; v. 274; p. 201.
Articles on current events for children. M. C. Syndicate. No. 131,186; May 4; v. 274; p. 198.
Automobile-dashes, Sheltering troughs for protecting coils on. C. A. Gareau. No. 131,115; May 4; v. 274; p. 196.
Automobile starting devices. Ace Manufacturing Company. No. 130,596; May 4; v. 274; p. 181.
Automobiles. Vreeland Motor Co. No. 131,260; May 4; v. 274; p. 201.
Automobiles. Ward Motor Vehicle Company. No. 130,984; May 4; v. 274; p. 192.
Automobiles and motor-cars. Templar Motors Corporation. No. 131,246; May 4; v. 274; p. 200.
Automobiles and motor-trucks. Peerless Motor Car Company. No. 130,862; May 4; v. 274; p. 189.
Automobiles and motor-trucks, Passenger-. Piedmont Motor Car Company. No. 131,212; May 4; v. 274; p. 199.
Automobiles, automobile-radiators, and wheel-hub caps. Argonne Motor Car Co. No. 131,025; May 4; v. 274; p. 194.
Automobiles, Pleasure-. Commonwealth Motors Co. No. 131,069; May 4; v. 274; p. 195.
Awning in the nature of wind-shield protector. H. W. Weed. No. 131,266; May 4; v. 274; p. 201.
Axles and springs for vehicles. Standard Parts Company. No. 130,928; May 4; v. 274; p. 191.
Bacon, hams, lard, &c. William Davies Company. No. 130,695; May 4; v. 274; p. 184.
Bags, Grain-. Marshall Field & Company. No. 130,816; May 4; v. 274; p. 187.
Bandage, Elastic. Becton, Dickinson & Co. No. 130,635; May 4; v. 274; p. 182.
Bandages, Catamenial. Individual Drinking Cup Company. No. 130,762; May 4; v. 274; p. 186.
Batteries, Dry storage. J. P. Mentzer. No. 130,829; May 4; v. 274; p. 188.
Bearing metal. American Non-Ferrous Metals Corporation. No. 130,609; May 4; v. 274; p. 181.
Bearings, balls, and rollers, &c., Antifriction. Fafnir Bearing Co. No. 131,109; May 4; v. 274; p. 196.
Bearings, Steel balls for ball-. H. Baker & Co. No. 130,632; May 4; v. 274; p. 182.
Bedspreads, sheets, &c. E. K. Rhoads. No. 131,220; May 4; v. 274; p. 199.
Beverages. Ray & Frazier. No. 130,889; May 4; v. 274; p. 190.
Biscuit. National Biscuit Company. No. 131,197; May 4; v. 274; p. 199.
Blankets and flannels in the piece and made of cotton, Cotton. American Trading Company. No. 131,022; May 4; v. 274; p. 193.
Blankets, Cotton. Nashua Manufg. Company. Nos. 131,195–6; May 4; v. 274; p. 199.
Blouses and shirtwaists, Ladies'. C. Raab. No. 130,873; May 4; v. 274; p. 189.
Boots and shoes. Converse Rubber Shoe Co. No. 130,686; May 4; v. 274; p. 183.
Boots and shoes. Richards & Brennan Co. No. 130,882; May 4; v. 274; p. 189.
Boots and shoes. A. Ruff's Sons. No. 130,898; May 4; v. 274; p. 190.
Boots and shoes. Wm. Kaut Footwear Company. Nos. 130,771–4; May 4; v. 274; p. 186.
Boots and shoes for men, Leather. F. M. Schumacher. No. 130,980; May 4; v. 274; p. 190.
Boots and shoes for misses and children. Wm. Kaut Footwear Company. No. 131,147; May 4; v. 274; p. 197.
Boots and shoes, Leather. The Emerson Shoe Company. Nos. 130,711–13; May 4; v. 274; p. 182.
Boots and shoes, Leather. Locke Shoe Co. No. 130,798; May 4; v. 274; p. 189.
Boots and shoes, Men's leather. Foot, Schulze & Co. No. 131,112; May 4; v. 274; p. 196.
Boots or shoes. Slater & Morrill. No. 131,238; May 4; v. 274; p. 200.
Boots, overshoes, gum shoes, &c. The Firestone Tire and Rubber Company. No. 130,720; May 4; v. 274; p. 184.
Boots, shoes, and slippers. Rice & Hutchins. No. 130,880; May 4; v. 274; p. 189.
Boots, shoes, leggings, or puttees. A. E. Little Company. No. 131,172; May 4; v. 274; p. 198.
Boots, shoes, slippers, sandals, Leather. Wm. Kaut Footwear Co. No. 131,148; May 4; v. 274; p. 197.
Bottles, Glass. M. Niven. No. 130,850; May 4; v. 274; p. 188.
Braids and passementerie. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 131,088–92; May 4; v. 274; pp. 195–6.
Bread. A. Bakke. No. 131,031; May 4; v. 274; p. 194.
Bread. Bixler Baking Co. No. 130,640; May 4; v. 274; p. 182.
Bread. Everett, Augenbaugh & Co. No. 131,108; May 4; v. 274; p. 196.
Bread. Haller Baking Company. No. 130,743; May 4; v. 274; p. 185.
Bread. C. F. Hathaway & Sons. No. 130,748; May 4; v. 274; p. 185.
Bread. F. A. Heroux. No. 131,137; May 4; v. 274; p. 197.
Bread. Pratt Bread Company. No. 130,869; May 4; v. 274; p. 189.
Bread. A. Reznikove. No. 130,878; May 4; v. 274; p. 189.
Bread. T. Roulston. No. 130,896; May 4; v. 274; p. 190.
Bread. Ward Baking Company. No. 131,264; May 4; v. 274; p. 201.
Bread, cakes, and pastry. Haller Baking Company. No. 131,132; May 4; v. 274; p. 197.
Bread, cakes, pies, pastry. J. E. Aubry. No. 131,027; May 4; v. 274; p. 194.
Bread, rolls, cakes, pies, &c. Keebler Weyl Baking Co. No. 130,775; May 4; v. 274; p. 186.
Brick, Fire-. Pyro Products Company. No. 130,872; May 4; v. 274; p. 189.
Bronzework for buildings, Architectural. Dymalkon Metals Corporation. No. 131,095; May 4; v. 274; p. 196.
Brooms and whisk-brooms. Deshler Broom Factory. Nos. 130,697–8; May 4; v. 274; p. 184.
Brushes for dynamos and electric motors. Morgan Crucible Compy. No. 131,192; May 4; v. 274; p. 199.
Brushes, shoe brushes and daubers, Hair and clothes. J. Morrison, Jr. No. 130,836; May 4; v. 274; p. 188.
Brushes, Tooth, nail, hair, bath, and face. A. Bourjois & Co. No. 130,650; May 4; v. 274; p. 182.
Buckles. Shoe Hardware Company. No. 130,914; May 4; v. 274; p. 190.
Buckles for personal wear. Whitehouse Brothers. No. 130,993; May 4; v. 274; p. 193.
Buildings, Knockdown. W. A. Fortner. No. 131,113; May 4; v. 274; p. 196.
Burs and broaches for dental use. Usona Dental Company. No. 130,963; May 4; v. 274; p. 192.
Butter, olive-oil, rice, dried fruits, coffee. Wm. T. Reynolds & Co. No. 130,877; May 4; v. 274; p. 189.
Buttermilk, Powdered. Collis Products Company. No. 130,677; May 4; v. 274; p. 183.
Buttons. International Button Co. No. 130,763; May 4; v. 274; p. 186.
Cakes and crackers. Candy Cake Corporation. No. 130,060; May 4; v. 274; p. 195.
Candles. A. R. Alfoth. No. 130,600; May 4; v. 274; p. 181.
Candles. T. Backé. No. 131,029; May 4; v. 274; p. 194.
Candles. Fuerst & Kraemer. No. 131,114; May 4; v. 274; p. 196.
Candles. R. F. Keppel & Bro. No. 130,777; May 4; v. 274; p. 186.

Candles. McDowell, Pyle & Co. No. 130,804; May 4; v. 274; p. 187.
Candles. Mason City Candy Co. No. 130,818; May 4; v. 274; p. 187.
Candles. Samoset Chocolate Co. No. 130,902; May 4; v. 274; p. 190.
Candles. Sunnyland Fruit Company. No. 130,938; May 4; v. 270; p. 191.
Candles. V. Vivaudou. No. 130,969; May 4; v. 274; p. 192.
Candles and chocolate. Mason, Au & Magenheimer Conf. Mfg. Co. No. 130,817; May 4; v. 274; p. 187.
Candles and chocolates. D. A. P. Confectionery. No. 130,693; May 4; v. 274; p. 184.
Candles, Chocolate. A. B. Mewhinney Co. Inc. No. 131,190; May 4; v. 274; p. 199.
Candles, Chocolate. Rueckheim Bros. & Eckstein. No. 130,897; May 4; v. 274; p. 190.
Candles, cocoa, jellies, peanut-butter, &c. Bishop & Company. No. 130,639; May 4; v. 274; p. 182.
Candy. Paul F. Beich Co. No. 130,636; May 4; v. 274; p. 182.
Candy. Beinhauer Bros. Candy Co. No. 131,035; May 4; v. 274; p. 194.
Candy. J. S. Bell Confectionery Company. No. 131,036; May 4; v. 274; p. 194.
Candy. C. A. Crane. No. 131,071; May 4; v. 274; p. 195.
Candy. J. O. Gilbert. No. 131,118; May 4; v. 274; p. 196.
Candy. A. Greive. No. 130,739; May 4; v. 274; p. 185.
Candy. E. Kappas. No. 131,106; May 4; v. 274; p. 196.
Candy. The Walter M. Lowney Company. No. 130,800; May 4; v. 274; p. 187.
Candy. Walter M. Lowney Company. Nos. 131,175–7; May 4; v. 274; p. 198.
Candy. C. C. Mahan. No. 130,808; May 4; v. 274; p. 187.
Candy. L. T. Malone. No. 130,822; May 4; v. 274; p. 188.
Candy. T. Marquetand. No. 131,184; May 4; v. 274; p. 198.
Candy. A. B. Mewhinney Co. No. 131,189; May 4; v. 274; p. 199.
Candy. Sears, Roebuck & Co. Nos. 131,235–6; May 4; v. 274; p. 200.
Candy. Shutter-Johnson Candy Co. No. 130,916; May 4; v. 274; p. 190.
Candy. United Drug Company. No. 130,956; May 4; v. 270; p. 191.
Candy. P. Wunderle. No. 131,006; May 4; v. 274; 193.
Candy and fruit tablets. Charms Company. Nos. 130,669–70; May 4; v. 274; p. 183.
Candy, Chocolate. Williams Chocolate Company. No. 130,996; May 4; v. 274; p. 193.
Candy, Chocolate-coated. L. T. Malone. No. 130,823; May 4; v. 274; p. 188.
Canned fish. M. Beck. No. 130,634; May 4; v. 274; p. 182.
Canned fish. Lawrence Canning Co. No. 130,790; v. 274; p. 187.
Canned fish. L. A. Sea Food Packing Co. No. 130,911; May 4; v. 274; p. 190.
Canned fish. L. A. Sea Food Packing Co. No. 131,174; May 4; v. 274; p. 198.
Canned fruits. Charles Stern & Sons Inc. No. 131,243; May 4; v. 274; p. 200.
Canned fruits. C. E. Van Landingham. No. 131,254; May 4; v. 274; p. 201.
Canned fruits and vegetables. Emery Food Co. No. 131,103; May 4; v. 274; p. 196.
Canned fruits, vegetables, and fish. Hale Company. No. 131,131; May 4; v. 274; p. 197.
Canned meats, soup, &c. Boston Food Products Company. No. 130,649; May 4; v. 274; p. 182.
Canned salmon. Aberdeen Packing Co. No. 131,012; May 4; v. 274; p. 193.
Canned salmon. Kelley-Clarke Co. No. 130,776; May 4; v. 274; p. 186.
Canned salmon. New York Pacific Commercial Company. No. 130,849; May 4; v. 274; p. 188.
Canned salmon and herring. Alaska Salmon & Herring Jackers. No. 130,598; May 4; v. 274; p. 181.
Canned sugar-corn. Warrensburg Canning Company. No. 130,986; May 4; v. 274; p. 192.
Canned vegetables. E. Gernert. No. 130,729; May 4; v. 274; p. 185.
Canned vegetables. The Sears and Nichols Canning Company. No. 130,912; May 4; v. 274; p. 190.
Cans, Ash, garbage, and oil. M. Kamenstein. No. 130,769; May 4; v. 274; p. 170.
Caps and hats for men and children. J. P. Cody. No. 130,675; May 4; v. 274; p. 183.
Caps and hats, Men's and boys'. Langenberg Hat Company. No. 131,011; May 4; v. 274; p. 193.
Cards, Filing-. Record Card Co. No. 130,874; May 4; v. 274; p. 189.
Cars and exports thereof, Railway-. Commonwealth Steel Company. No. 130,680; May 4; v. 274; p. 183.
Castings, forgings, &c., of iron and steel. Philadelphia Roll & Machine Company. No. 130,864; May 4; v. 274; p. 189.
Cement, stucco, plaster. American Pozzolana Company. No. 130,612; May 4; v. 274; p. 181.
Cereal food. J. R. West. No. 131,267; May 4; v. 274; p. 201.
Chains and chain-slings. Newhall Chain Forge & Iron Co. No. 130,847; May 4; v. 274; p. 188.
Charcoal. R. MacKellar's Sons Co. No. 131,181; May 4; v. 274; p. 198.
Cheese, olives, canned goods, &c. Iwan Burger, Inc. No. 131,057; May 4; v. 274; p. 195.
Chocolate and cocoa. Stollwerck Brothers. No. 130,934; May 4; v. 274; p. 191.
Chocolate, Milk-. The Maurice Company. No. 130,821; May 4; v. 274; p. 188.
Chocolate, Sweet. Boldemann Chocolate Company. No. 130,646; May 4; v. 274; p. 182.
Chocolates. The Brecht Candy Company. No. 130,651; May 4; v. 274; p. 182.
Chocolates. The Brecht Candy Company. Nos. 131,053–5; May 4; v. 274; p. 194.
Cigarette-paper. Liggett & Myers Tobacco Company. No. 130,796; May 4; v. 274; p. 187.
Cigarettes. J. J. Turney. No. 130,952; May 4; v. 274; p. 191.
Cigarettes. The Bloch Bros. Tobacco Co. Nos. 130,642–3; May 4; v. 274; p. 182.
Cigars. Francis H. Leggett & Co. No. 130,793; May 4; v. 274; p. 187.
Cigars. Marcelino Perez & Company. No. 130,813; May 4; v. 274; p. 187.
Cigars. C. F. Stout. No. 130,935; May 4; v. 274; p. 191.
Cigars and cigarettes. P. Elle. No. 130,709; May 4; v. 274; p. 184.
Cigars and cigarettes. W. J. Pinder. No. 130,866; May 4; v. 274; p. 189.
Cleaner for fabrics and leather. A. Selz. No. 131,237; May 4; v. 274; p. 200.
Cleaners, Vacuum-. A/S Det Almindelige Handelskompagni. No. 131,078; May 4; v. 274; p. 195.
Cleaning compound for removing carbon, &c., from the hands. N. S. McIntosh. No. 131,179; May 4; v. 274; p. 198.
Cleaning fluid for polishing metal surfaces. J. F. Blawn. No. 131,042; May 4; v. 274; p. 194.
Cleansing preparation. Laundry Supplies' Corporation. No. 131,163; May 4; v. 274; p. 198.
Clocks and watches. L. P. White. No. 130,991; May 4; v. 274; p. 193.
Clotheslines. Krenning-Schlapp Grocer Company. No. 130,786; May 4; v. 274; p. 186.
Clothing. American La France Fire Engine Co. No. 130,607; May 4; v. 274; p. 181.
Clothing. American Import Co. No. 130,606; May 4; v. 274; p. 181.
Clothing. S. Ballin. No. 131,032; May 4; v. 274; p. 194.
Clothing, Boys' and children's. Elder Manufacturing Co. No. 131,098; May 4; v. 274; p. 196.
Clothing for men and boys. Perkins Dry Goods Company. No. 131,209; May 4; v. 274; p. 199.
Coal. King Coal Company. No. 130,779; May 4; v. 274; p. 186.
Coal. A. S. Nowlin & Co. No. 130,851; May 4; v. 274. p. 188.
Coal, Bituminous. The Evans Coal Company. No. 130,716; May 4; v. 274; p. 184.
Coats. P. Sangoff. No. 131,233; May 4; v. 274; p. 200.
Coats and suits, Ladies'. Ritter Brothers. No. 130,885; May 4; v. 274; p. 189.
Coats, pants, drawers, &c., Dress and work. The Virginia Overall & Shirt Corporation. No. 130,967; May 4; v. 274; p. 192.
Coats, Reversible leather. International Duplex Coat Co. No. 130,766; May 4; v. 274; p. 186.
Coats, vests, and trousers. J. M. Margolis. No. 130,814; May 4; v. 274; p. 187.
Coats, vests, pants, overcoats, Men's. Rosenberg Bros. & Co. Nos. 131,223–6; May 4; v. 274; p. 200.
Coffee. Duncan Coffee Co. No. 130,703; May 4; v. 274; p. 184.
Coffee. Woolson Spice Co. No. 131,002; May 4; v. 274; p. 193.
Coffee, Roasted. Smart & Final Co. No. 130,923; May 4; v. 274; p. 191.
Coffee substitute. F. F. Shoup. No. 130,915; May 4; v. 274; p. 190.
Coffins, caskets, rough boxes. S. Merritt. No. 130,830; May 4; v. 274; p. 188.
Collars, cuffs, and bosoms. Reversible Collar Company. No. 131,219; May 4; v. 274; p. 199.
Combs and buttons. American Hard Rubber Co. Nos. 131,017–18; v. 274; p. 193.
Combs and buttons for wearing-apparel. American Hard Rubber Company. No. 130,605; May 4; v. 274; p. 181.
Comminuting machinery, &c. Allis-Chalmers Manufacturing Company. No. 130,602; May 4; v. 274; p. 181.
Concrete-mixers. G. C. Sheldon. No. 130,913; May 4; v. 274; p. 190.
Concrete mixing and molding machinery. Winget Limited. No. 130,998; May 4; v. 274; p. 193.
Confection. L. P. Larson, Jr., Company. No. 130,789; May 4; v. 274; p. 187.
Construction material. General Insulating & Manufacturing Company. No. 131,116; May 4; v. 274; p. 196.
Construction material, Plastic. Sterling Products Company. No. 131,242; May 4; v. 274; p. 200.
Cooking utensils, Aluminum and iron. The Griswold Manufacturing Company. No. 130,740; May 4; v. 274; p. 185.
Copper, brass, and bronze ingots, rods, &c. Bridgeport Brass Company. No. 131,056; May 4; v. 274; p. 195.

Cork. International Cork Company. No. 130,765; May 4; v. 274; p. 186.
Corsets. American Lady Corset Company. No. 131,019; May 4; v. 274; p. 193.
Corsets. International Corset Company. No. 131,142; May 4; v. 274; p. 197.
Corsets and brassières. Kops Bros. No. 130,784; May 4; v. 274; p. 186.
Corsets, corset waists, brassières. Linehan-Conover Company. No. 131,170; May 4; v. 274; p. 198.
Cotton, Baled. Southwest Cotton Company. No. 130,927; May 4; v. 274; p. 191.
Cotton piece and dress goods. Pacific Mills. No. 131,205; May 4; v. 274; p. 199.
Cotton piece goods. Chas. Kohlman Co. No. 131,159; May 4; v. 274; p. 198.
Cotton piece goods. Otis Co. No. 130,855; May 4; v. 274; p. 189.
Cotton piece goods. Wilton Manufacturing Co. No. 130,997; May 4; v. 274; p. 193.
Cutlery. Dwight Divine & Sons. No. 130,706; May 4; v. 274; p. 150.
Cutlery. Huth & Co. No. 130,759; May 4; v. 274; p. 186.
Cutlery, razors, &c. Pocket-. Union Cutlery Co. No. 130,954; May 4; v. 274; p. 191.
Diaper-supporters. G. R. Bonebright. No. 131,043; May 4, v. 274; p. 194.
Dimension-gages and attachments therefor. Pratt & Whitney Company. No. 130,870; May 4; v. 274; p. 189.
Doll, Walking. "Babs" Manufacturing Corporation. No. 130,631; May 4; v. 274; p. 182.
Dolls. L. C. Brintnall. No. 130,652; May 4; v. 274; p. 182.
Dolls. Pacific Novelty Company. No. 130,857; May 4; v. 274; p. 189.
Dresses. The Estelle Company. No. 130,715; May 4; v. 274; p. 184.
Dresses. L. Levy. No. 131,167; May 4; v. 274; p. 198.
Dresses, Infants' and children's. A. Milliman. No. 130,834; May 4; v. 274; p. 188.
Drills, grinders, &c., Electric track, spindle, and hammer. Chicago Pneumatic Tool Company. No. 131,065; May 4; v. 274; p. 195.
Drills in the piece, Cotton. Rice Stix Dry Goods Company. No. 131,221; May 4; v. 274; p. 200.
Drinking-fountains and parts. Eastern Fountain Co. No. 130,708; May 4; v. 274; p. 184.
Edge-tools—viz., razors. A. H. Bryant. No. 130,661; May 4; v. 274; p. 183.
Edgings, Woven. R. Zinn. No. 131,275; May 4; v. 274; p. 201.
Egg cartons or cases. J. C. Voorhorst. No. 130,970; May 4; v. 274; p. 192.
Egg-cases, egg-case and cushion fillers, &c. Indiana Board & Filler Company. No. 130,761; May 4; v. 274; p. 186.
Eggs. John Morrell & Co. No. 130,835; May 4; v. 274; p. 188.
Eggs. X. Renaker. No. 131,218; May 4; v. 274; p. 199.
Eggs, poultry, and butter. J. Lynard. No. 130,801; May 4; v. 274; p. 187.
Electric current for therapeutic purposes, Apparatus for generating, &c. McIntosh Battery and Optical Co. No. 130,805; May 4; v. 274; p. 187.
Electric generators and parts thereof, Magneto. American Bosch Magneto Corporation. No. 131,015; May 4; v. 274; p. 193.
Electric lighting and wiring fixtures. Harvey Hubbell, Incorporated. No. 130,746; May 4; v. 274; p. 185.
Electric power-generating and lighting plants. Marmon Chicago Company. No. 130,827; May 4; v. 274; p. 188.
Electric power-generating and lighting plants, Isolated. Universal Battery Company. No. 130,960; May 4; v. 274; p. 192.
Electric warming-pads. Scientific Products Company. No. 130,909; May 4; v. 274; p. 190.
Electric wire. Atlantic Insulated Wire & Cable Company. No. 130,629; May 4; v. 274; p. 182.
Electrical apparatus and supplies. American Steel Export Company. No. 130,614; May 4; v. 274; p. 181.
Electrical apparatus and supplies. Electric Controller & Manufacturing Company. No. 131,099; May 4; v. 274; p. 196.
Electrical flash-lights. General Illuminating Co. No. 130,728; May 4; v. 274; p. 185.
Electrode-pads. McIntosh Battery & Optical Co. No. 130,806; May 4; v. 274; p. 187.
Emulsion of milk, cream, &c. Machinery for effecting. Union Steam Pump Company. No. 131,249; May 8; v. 274; p. 200.
Engine-stands, portable cranes, &c. United Engine & Manufacturing Co. No. 130,957; May 4; v. 274; p. 192.
Engines and parts therof, winches, and capstans. N. & S. Engine Co. No. 130,714; May 4; v. 274; p. 184.
Engines, Gas-. Power Manufacturing Company. No. 131,215; May 4; v. 274; p. 199.
Explosive of the dynamite type, High. E. I. du Pont de Nemours & Company. No. 130,704; May 4; v. 274; p. 184.
Extracts and flavors. McCormick & Co. No. 130,803; May 4; v. 274; p. 187.
Fabric strips for underwear-trimmings. Julius Kayser & Co. No. 131,149; May 4; v. 274; p. 197.
Fabrics, Artificial-silk. Royal Embroidery Works, Naday & Fleischer. No. 131,228; May 4; v. 274; p. 200.
Fancy goods and notions, &c. Waldes & Company. No. 130,977; May 4; v. 274; p. 192.
Fancy goods and notions. Waldes & Company. No. 130,979; May 4; v. 274; p. 192.
Farm-tractors. Gray Tractor Company. No. 130,738; May 4; v. 274; p. 185.
Feed, Compound ground. Blatchford Calf Meal Company. No. 130,641; May 4; v. 274; p. 182.
Feed, Poultry. The G. E. Conkey Co. Nos. 130,682–3; May 4; v. 274; p. 183.
Feed, Stock. Chas. A. Krause Milling Co. No. 130,785; May 4; v. 274; p. 186.
Feeds, Stock, &c. Barber & Bennett. No. 130,633; May 4; v. 274; p. 182.
Files, Document-. Safe-Cabinet Company. No. 130,901; May 4; v. 274; p. 190.
Fish. N. E. Megler. No. 131,187; May 4; v. 274; p. 198.
Flatirons, Electric. Chicago Flexible Shaft Company. Nos. 131,063–4; May 4; v. 274; p. 195.
Flat-ware, Plated. Oneida Community. No. 131,204; May 4; v. 274; p. 199.
Flavoring extract for foods. H. Kohnstamm & Co. No. 130,780; May 4; v. 274; p. 186.
Flavoring extracts. National Fruit Flavor Co. No. 130,840; May 4; v. 274; p. 188.
Flavoring extracts and syrups. Limpert Bros., Inc. No. 130,797; May 4; v. 274; p. 187.
Flavoring extracts for foods. F. B. Chamberlain Company. No. 131,062; May 4; v. 274; p. 195.
Flavoring extract for foods. H. Kohnstamm & Co. No. 131,161; May 4; v. 274; p. 198.
Flour. R. C. Poage Milling Co. No. 131,214; May 4; v. 274; p. 199.
Flour. Ultramares Corporation. No. 131,248; May 4; v. 274; p. 200.
Foods and buckwheat flour, Breakfast cereal. Wolff Brothers. No. 131,272; May 4; v. 274; p. 201.
Flour, Rye-. Stern Milling Company. Nos. 130,930–1; May 4; v. 274; p. 191.
Flour, Self-rising. Garland Milling Company. No. 130,727; May 4; v. 274; p. 185.
Flour, Self-rising wheat-. Carlyle Milling Company. No. 131,061; May 4; v. 274; p. 195.
Flour, Self-rising wheat-. C. A. Gambrill Manuf'g Company. No. 130,726; May 4; v. 274; p. 185.
Flour, Self-rising wheat-. Hezel Milling Company. No. 131,138; May 4; v. 274; p. 197.
Flour, Self-rising wheat-. Roanoke City Mills. No. 130,892; May 4; v. 274; p. 190.
Flour, Wheat-. T. L. Carroll Company. No. 130,665; May 4; v. 274; p. 183.
Flour, Wheat-. Dorris Milling Company. No. 131,093; May 4; v. 274; p. 196.
Flour, Wheat-. Galbraith Milling Company. No. 130,725; May 4; v. 274; p. 185.
Flour, Wheat-. Gladney Milling Company. No. 131,123; May 4; v. 274; p. 197.
Flour, Wheat-. Hornor-Gaylord Company. No. 131,141; May 4; v. 274; p. 197.
Flour, Wheat-. M. Mills. No. 131,188; May 4; v. 274; p. 199.
Flour, Wheat-. Nashville Roller Mills. No. 130,839; May 4; v. 274; p. 188.
Flour, Wheat-. Nashville Roller Mills. No. 131,194; May 4; v. 274; p. 199.
Flour, Wheat-. Rafael del Castillo & Co. No. 130,668; May 4; v. 274; p. 183.
Flour, Wheat-. Roanoke City Mills. No. 130,891; May 4; v. 274; p. 190.
Flour, Wheat-. The Robinson Milling Co. No. 130,894; May 4; v. 274; p. 190.
Flour, Wheat-. J. Rosenstein. No. 131,227; May 4; v. 274; p. 200.
Flour, Wheat-. Sparks Milling Company. No. 131,240; May 4; v. 274; p. 200.
Flour, Wheat-. Stokes Milling Co. No. 130,933; May 4; v. 274; p. 191.
Flour, Wheat-. W. P. Tanner-Gross & Company, Inc. No. 130,942; May 4; v. 274; p. 191.
Food for live stock, Medicated. Parsons Chemical Works. No. 130,861; May 4; v. 274; p. 189.
Food paste. G. Kahan. No. 131,146; May 4; v. 274; p. 197.
Foods. Austin, Nichols & Company. No. 130,630; May 4; v. 274; p. 182.
Foods and ingredients of foods. American Products Co. No. 130,613; May 4; v. 274; p. 181.
Foods and ingredients of food. The Borden Company. No. 130,647; May 4; v. 274; p. 182.
Foods and ingredients of foods. Retail Grocers Syndicate. No. 131,217; May 4; v. 274; p. 199.
Foods and ingredients of foods. Western Grocer Company. No. 131,268; May 4; v. 274; p. 201.
Foods, Infants', &c. Hensch Food Company. No. 131,136; May 4; v. 274; p. 197.
Fruits, Fresh. Cloud-Thomas Co. No. 130,674; May 4; v. 274; p. 183.
Fruits—namely, grapes, Fresh. V. D. Whitmore. No. 131,257; May 4; v. 274; p. 201.
Furs, Dressed. Philip A. Singer & Bro. No. 130,920; May 4; v. 274; p. 190.
Games of jackstraws. Milton Bradley Company. No. 131,045; May 4; v. 274; p. 194.
Garments for men. National Shirt Shops. No. 130,842; May 4; v. 274; p. 188.

Garments for men and boys. Hirsch, Friedman Co. No. 131,140; May 4; v. 274; p. 197.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 131,067; May 4; v. 274; p. 195.
Garments, Overall-. The C. E. Ward Company. No. 130,983; May 4; v. 274; p. 192.
Garments, Sleeping-. Marshall Field & Company. No. 130,815; May 4; v. 274; p. 187.
Girdles, brassières, hip-reducers, &c. The Elastowear Manufacturing Company. No. 130,710; May 4; v. 274; p. 184.
Glass-cutters. J. E. Miller. No. 130,833; May 4; v. 274; p. 188.
Glass vial, Perfume. A. Vericel. No. 130,965; May 4; v. 274; p. 192.
Gloves, Leather. Heller Leather Co. No. 130,750; May 4; v. 274; p. 185.
Golf-clubs. The Crawford McGregor and Canby Company. No. 130,689; May 4; v. 274; p. 184.
Grapes, Fresh. L. Rusconi. No. 130,899; May 4; v. 274; p. 190.
Graphite, Flake. International Carbon Products Company. No. 130,764; May 4; v. 274; p. 186.
Gum, Chewing-. Wm. Wrigley, Jr., Company. No. 131,004; May 4; v. 274; p. 193.
Hair-curler. L. E. Marx. No. 131,185; May 4; v. 274; p. 198.
Hair-extractor, Mechanical. L. M. Durfee. No. 130,705; May 4; v. 274; p. 184.
Hair-waversr. Parisian Mfg. Company. No. 131,206; May 4; v. 274; p. 199.
Hams, bacon, shoulders. Swift & Company. No. 130,940. May 4; v. 274; p. 191.
Hats. S. Schiller. No. 130,967; May 4; v. 274; p. 190.
Hats, shoes, overcoats, dresses, &c. A. M. Malouf. No. 130,811; May 4; v. 274; p. 187.
Heaters, Electric air, water, and immersion. Majestic Electric Development Co. No. 130,809; May 4; v. 274; p. 187.
Hides and leather. Kullman, Salz & Co. No. 131,162; May 4; v. 274; p. 198.
Hog-waterers. The Hartman Company. No. 130,745; May 4; v. 274; p. 185.
Hoisting-towers, Construction. J. J. Wuellner & Son. No. 131,005; May 4; v. 274; p. 193.
Honor-rolls, bas-reliefs, and memorial tablets. Dymalkon Metals Corporation. No. 130,707; May 4; v. 274; p. 184.
Hops, California. A/D Det Almindelige Handelskompagni. No. 131,077; May 4; v. 274; p. 195.
Hooks and eyes. The De Long Hook and Eye Company. No. 131,076; May 4; v. 274; p. 195.
Hose. L. B. Alling. No. 130,601; May 4; v. 274; p. 181.
Hose. L. B. Alling. No. 131,013; May 4; v. 274; p. 193.
Hose. Slatedale Knitting Mills. No. 130,922; May 4; v. 274; p. 191.
Hosiery. Chipman Knitting Mills. No. 130,673; May 4; v. 274; p. 183.
Hosiery. Daum Rogers Spritzer Co. No. 130, 694; May 4; v. 274; p. 184.
Hosiery. John M. Given, Inc. No. 130,733; May 4; v. 274; p. 185.
Hosiery. National Mills. No. 131,198; May 4; v. 274; p. 199.
Hosiery. S. A. Singer. No. 130,921; May 4; v. 274; p. 191.
Hosiery. E. M. Townsend & Co. No. 130,947; May 4; v. 274; p. 191.
Hosiery. Universal Merchandise Co. No. 130,962; May 4; v. 274; p. 192.
Hosiery. Chipman Knitting Mills; No. 131,066; May 4; v. 274; p. 195.
Hosiery, Children's. John M. Given, Inc. No. 131,122; May 4; v. 274; p. 197.
Hosiery for women. J. F. Byrne. Nos. 131,058–9; May 4; v. 274; p. 195.
Hosiery. Ritter Hosiery Company. No. 130,886; May 4; v. 274; p. 189.
Hosiery, men's collars, dress-shirts, &c. Johnston Dry Goods Co. No. 130,768; May 4; v. 274; p. 186.
Hosiery, underwear, and sweaters, and work-shirts for men and boys, Knitted. O. L. Stanard Dry Goods Company. No. 131,241; May 4; v. 274; p. 200.
Hydraulic machinery and equipment. Metalwood Manufacturing Co. No. 130,831; May 4; v. 274; p. 188.
Ice-cream. Tampa Dairy Co. No. 130,941; May 4; v. 274; p. 191.
Ice-cream and ices. Arctic Ice & Coal Co. No. 131,024; May 4; v. 274; p. 194.
Ice-cream and ices. Fresno Brewing Co. No. 130,724; May 4; v. 274; p. 185.
Ice-cream, &c., Powder for. W. B. Wood Mfg. Co. No. 131,001; May 4; v. 274; p. 193.
Ice-cream cones. S. G. Hagopian. No. 130,742; May 4; v. 274; p. 185.
Icings and toppings for foods. White Stokes Co. No. 130,992; May 4; v. 269; p. 193.
Ignition-magnetos. Webster Electric Company. No. 131,265; May 4; v. 274; p. 201.
Inhalers. W. H. Schaefer. No. 130,906; May 4; v. 274; p. 190.
Insects, Machines for injecting fluid into the ground for exterminating. J. Conceição. No. 130,681; May 4; v. 274; p. 183.
Irons, Electric flat-. Chicago Flexible Shaft Company. No. 130,671. May 4; v. 274; p. 183.
Jams, Fruit. Gibbs Preserving Co. No. 130,732; May 4; v. 274; p. 185.
Knitted undershirts and union-suits for women. Phillips-Doscher Corporation. No. 131,211; May 4; v. 274; p. 199.
Lanterns. J. N. Klema. No. 131,155; May 4; v. 274; p. 198.
Laundry-tablets. G. M. David. No. 131,074; May 4; v. 274; p. 195.
Leather. John R. Evans & Company. No. 131,107; May 4; v. 274; p. 196.
Leather-board, Manufactured. Herkimer Fibre Company. No. 130,749; May 4; v. 274; p. 185.
Leather, Horse-. Chicago Tanning Co. No. 130,672; May 4; v. 274; p. 183.
Leather, Imitation. Marathon Tire and Rubber Co. No. 131,182; May 4; v. 274; p. 198.
Leather in the piece, Finished. The Toomay Company. No. 130,946; May 4; v. 274; p. 191.
Leather, Sole-. Janney & Burroughs. No. 130,767; May 4; v. 274; p. 186.
Lenses, Automobile. E. R. Brackett. No. 131,044; May 4; v. 274; p. 194.
Lenses, Ophthalmic. American Optical Company. No. 130,610; May 4; v. 274; p. 181.
Locks, Nut-. Palnut Corporation. No. 130,860; May 4; v. 274; p. 189.
Lubricating and grease guns. Boston Auto Gage Company. No. 130,648; May 4; v. 274; p. 182.
Macaroni. Prince Macaroni Mfg. Co. No. 130,871; May 4; v. 274; p. 189.
Machinery. Lummus Cotton Gin Company. No. 131,178; May 4; v. 274; p. 198.
Machinery and parts thereof. Massey-Harris Harvester Co. No. 130,820; May 4; v. 274; p. 187.
Machinery for certain named purposes. S. Howes Co. No. 130,758; May 4; v. 274; p. 186.
Mallow topping for ice-cream, desserts, &c. Fabian Hedges Inc. No. 131,135; May 4; v. 274; p. 197.
Manicuring implements. Columbia Manicure Mfg. Co. No. 130,678; May 4; v. 274; p. 183.
Marcel and water waver. Samstag & Hilder Bros. No. 131,232; May 4; v. 274; p. 200.
Massaging-machines, Electrical. Western Electric Company. No. 130,989; May 4; v. 274; p. 192.
Mayonnaise dressing, chili-chow, and a marshmallow preparation. J. A. De Luca. No. 130,696; May 4; v. 274; p. 184.
Measuring and scientific appliances. Reid Bros. No. 130,875; May 4; v. 274; p. 189.
Medicinal preparation. The Drum Medicine Company. No. 130,702; May 4; v. 274; p. 184.
Middy-blouses and dresses. Enterprise Manufacturing Company. No. 131,102; May 4; v. 274; p. 196.
Milk, Condensed. J. B. Gross Corporation. No. 130,741; May 4; v. 274; p. 879.
Milk, Condensed. Noble Dairy Farms. No. 131,202; May 4; v. 274; p. 199.
Milk, Evaporated. Kinney Bros. No. 131,154; May 4; v. 274; p. 198.
Milk, Evaporated. The Van Camp Packing Company. No. 130,964; May 4; v. 274; p. 192.
Millinery. C. A. Browning Co. No. 130,655; May 4; v. 274; p. 183.
Mirrors for vehicles, Rear-sight. Elbe Motor Co. No. 131,097; May 4; v. 274; p. 196.
Mixture which comprises chilli peppers, comino, &c. L. G. Page. No. 130,858; May 4; v. 274; p. 189.
Mowers, Lawn-. John Braun & Sons. Nos. 131,046–52; May 4; v. 274; p. 194.
Nainsooks, muslins, long-cloth, cambrics. Carson, Pirie, Scott & Co. No. 130,666; May 4; v. 274; p. 183.
Negligées. G. G. Thompson. No. 130,944; May 4; v. 274; p. 191.
Nightgowns, petticoats, drawers, &c., Ladies'. Wolf Company. No. 131,000; May 4; v. 274; p. 193.
Notions. Waldes & Co. Nos. 130,975–6; May 4; v. 274; p. 192.
Notions. Waldes & Co. No. 130,978; May 4; v. 274; p. 192.
Notions. Waldes & Co. No. 130,980; May 4; v. 274; p. 192.
Notions. Waldes & Co. Nos. 131,262–3; May 4; v. 274; p. 201.
Nuts. M. O. Dantzler. No. 131,073; May 4; v. 274; p. 195.
Oats, Rolled. The Corno Mills Company. No. 130,687; May 4; v. 274; p. 183.
Oil and tomato paste, Olive-. A. & C. Buscaglia Co. No. 130,662; May 4; v. 274; p. 182.
Oil-cloths and enameled cloth, Table and shelf. Levy & Fish. No. 131,168; May 4; v. 274; p. 198.
Oil-cups. Bloom Flusher Co. No. 130,644; May 4; v. 274; p. 182.
Oil, Olive-. N. P. Economou. No. 131,096; May 4; v. 274; p. 196.
Oil, Olive-. F. N. Giavi. No. 130,731; May 4; v. 274; p. 185.
Oil for leather, Emulsifying, Vacuum Oil Company. No. 131,252; May 4; v. 274; p. 201.
Oil, preserved vegetables and fish, cheese, tea, pickles, candy, &c., Olive-. Strohmeyer & Arpe Company. No. 130,936; May 4; v. 274; p. 191.

Oils, Edible. Aspegren & Co. No. 130,627; May 4; v. 274; p. 182.
Oleomargarin. Kokomar Company. No. 130,781; May 4; v. 274; p. 186.
Olives, Pickled. Mt. Ida Packing Company. No. 131,192; May 4; v. 274; p. 199.
Onions, Fresh. Walla Walla Gardener's Association. No. 130,981; May 4; v. 274; p. 192.
Oranges, Fresh. Buckeye Nurseries. No. 130,853; May 4; v. 274; p. 188.
Overalls. Brownstein-Louis Company. No. 130,658; May 4; v. 274; p. 183.
Overalls. The Crown Overall Manufacturing Company. No. 130,690; May 4; v. 274; p. 184.
Overalls. Cowden Manufacturing Co. No. 130,688; May 4; v. 274; p. 184.
Overalls and jackets. Happ Brothers Co. No. 130,744; May 4; v. 274; p. 185.
Overalls and shop-coats. L. Kohn. No. 131,160; May 4; v. 274; p. 198.
Overalls, jumpers and work-shirts. Textile Products Manufacturing Company. No. 130,943; May 4; v. 274; p. 191.
Overalls, work coats, shirts, and trousers. Hirsch-Mirviss Mfg. Co. No. 130,751; May 4; v. 274; p. 185.
Overgaiters. American Overgaiter Co. No. 130,611; May 4; v. 274; p. 181.
Pants, Infants'. Samstag & Hilder Bros. No. 130,903; May 4; v. 274; p. 190.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 131,269; May 4; v. 274; p. 201.
Paper bags. Wortendyke Manufacturing Company. No. 131,003; May 4; v. 274; p. 193.
Paper, Bond-. Gilbert Paper Company. No. 131,120; May 4; v. 274; p. 196.
Paper, envelops, tablets, blank books. J. C. Blair Company. No. 131,041; May 4; v. 274; p. 194.
Paper, Machine-bookkeeping. Byron Weston Co. No. 130,990; May 4; v. 274; p. 192.
Paper, Safety-. G. La Monte & Son. No. 131,010; May 4; v. 274; p. 193.
Paper, Window-display. Lester P. Winchenbaugh Co. No. 131,271; May 4; v. 274; p. 201.
Paper, Wrapping-. The Alling and Cory Co. No. 131,014; May 4; v. 274; p. 193.
Paper, Writing-. Gilbert Paper Company. No. 131,119; May 4; v. 274; p. 196.
Paper, Writing-. Gilbert Paper Company. No. 131,121; May 4; v. 274; p. 197.
Paper, Writing-. Western Bottle Mfg. Co. No. 130,988; May 4; v. 274; p. 192.
Paper, Writing-. Whiting Paper Company. No. 130, 994; May 4; v. 274; p. 193.
Papers, Ledger, writing, &c. L. L. Brown Paper Company. No. 130,654; May 4; v. 274; p. 182.
Parchmentized fiber, sheets, rods, tubes, and disks. Diamond State Fibre Company. No. 130,700; May 4; v. 274; p. 184.
Peanut-butter, vinegar, rice, &c. The Russell Jobbers' Mills. No. 131,230; May 4; v. 274; p. 200.
Pencils. Joseph Dixon Crucible Company. Nos. 131,079–87; May 4; v. 274; p. 195.
Petticoats and bloomers. M. A. Karaian. No. 130,770; May 4; v. 274; p. 186.
Phonographs. Music Table Company. No. 130,837; May 4; v. 274; p. 188.
Phonographs, record-needles, &c. Polonia Phonograph Co. No. 130,868; May 4; v. 274; p. 189.
Picture films, Moving-. G. J. Marfleet. No. 130,826; May 4; v. 274; p. 188.
Picture films, Moving-. Screencraft pictures. No. 130,910; May 4; v. 274; p. 190.
Picture-producing apparatus, Motion-. Bell & Howell Co. No. 130,637; May 4; v. 274; p. 182.
Piece goods. Haas Brothers Fabrics' Corporation. Nos. 131,129–30; May 4; v. 274; p. 197.
Pillow-cases. Naumkeag Steam Cotton Co. No. 131,199; May 4; v. 274; p. 199.
Pipe-covers. The Waterbury Jewel Company. No. 130,987; May 4; v. 274; p. 192.
Pipe, railway-spikes, &c., Welded and riveted. Koppel Industrial Car & Equipment Company. No. 130,782; May 4; v. 274; p. 186.
Pipes, Tobacco-. Societe Anonym La Bruyere. No. 130,925; May 4; v. 274; p. 191.
Placket and snap fasteners, glove-buttons, clasps. Waldes & Co. Nos. 130,971–4; May 4; v. 274; p. 192.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 131,261; May 4; v. 274; p. 20.
Planchette-boards. Unique Novelty Co. No. 130,955; May 4; v. 274; p. 191.
Platinum, Alloyed. E. R. Nebeling No. 130,844; May 4; v. 274; p. 188.
Plows and parts thereof. Lynchburg Foundry Company. 130,802; May 4; v. 274; p. 187.
Popcorn confections. American Pop Corn Works. No. 131,020; May 4; v. 274; p. 193.
Porcelain-enamel-coated metal sheets, plates, and angle-pieces. Minnesota Stove Co. No 131,191; May 4; v. 274; p. 199.
Potatoes, Fresh. L. W. Smith. No. 130,924; May 4; v. 274; p. 191.
Potatoes, Raw. C. S. Timmons. No. 130,945; May 4; v. 274; p. 191.
Poultry and setting-eggs, Live. J. W. Zimmerer. No. 131,276; May 4; v. 274; p. 201.
Powder-blowers. The De Vilbiss Manufacturing Company. No. 130,699; May 4; v. 274; p. 184.
Preparation for cleaning and polishing metals and glass. Electro-Silicon Co. Nos. 131,100–101; May 4; v. 274; p. 196.
Preparation that destroys dandruff, &c. S. D. Ktenaveas. No. 130,787; May 4; v. 274; p. 186.
Pretzels, cakes, crackers, biscuits. York Pretzel Bakery. No. 131,007; May 4; v. 274; p. 193.
Printing work, Printed forms for estimates of. H. M. Hastings. No. 130,747; May 4; v. 274; p. 185.
Pumps for all classes of industrial service, oil and gas engines, &c. National Transit Pump & Machine Company. No. 130,843; May 4; v. 274; p. 188.
Puzzle. Droelle & Vital. No. 130,701; May 4; v. 274; p. 184.
Puzzles. G. T. Robinson. No. 130,893; May 4; v. 274; p. 190
Pyrometers, Protecting-tubes for. The Brown Instrument Company. No. 130,653; May 4; v. 274; p. 182.
Radiator-valves and check-valves. C. Feuser. No. 131,110; May 4; v. 274; p. 196.
Railway appliances and parts thereof. Koppel Industrial Car & Equipment Company. No. 130,783; May 4; v. 274; p. 186.
Raincoats. Edward Ripley & Son. No. 130,884; May 4; v. 274; p. 189.
Razor-strops. F. J. Wittl. No. 130,999; May 4; v. 274; p. 193.
Remedy for diseases of the heart and nerves. Van Vleet Mansfield Drug Co. No. 131,258; May 4; v. 274; p. 201.
Rice. Stuttgart Rice Mill Company. No. 131,245; May 4; v. 274; p. 200.
Road-graders. J. D. Adams & Company. No. 130,597; May 4; v. 274; p. 181.
Rollers for certain named machines. Ideal Roller Company. No 130,760; May 4; v. 274; p. 186.
Roofing and covering for pipes. Delaware Electric & Supply Co. No. 131,075; May 4; v. 274; p. 195.
Roofings and shingles, Slate-surfaced. Asphalt Manufacturing Company. No. 130,628; May 4; v. 274; p. 182.
Rope-clamp. R. Loos. No. 131,173; May 4; v. 274; p. 198.
Rope, cord, twine. American Manufacturing Company. No. 130,608; May 4; v. 274; p. 181.
Ropes and twines, Fiber. Hooven & Allison Company. Nos. 130,752–5; May 4; v. 274; p. 185.
Rubber and fabric and rubber gloves and bathing-caps. United States Rubber Company. No. 131,251; May 4; v. 274; p. 200.
Rubber composition soles, half-soles, and heels. The Marathon Tire & Rubber Co. Nos. 130,824–5; May 4; v. 274; p. 188.
Rubber heels for boots and shoes. Plymouth Rubber Company. No. 130,867; May 4; v. 274; p. 189.
Rubber heels. Barva Heel & Tire Factory Inc. No. 131,034; May 4; v. 274; p. 194.
Sanitary napkins. Lewis Manufacturing Company. No. 130,795; May 4; v. 274; p. 187.
Sanitary napkins. Solace Comfort Service Corporation. No. 130,926; May 4; v. 274; p. 191.
Saws. Simonds Manufacturing Company. No. 130,919; May 4; v. 274; p. 190.
Scales, Weighing-. Mason, Davis & Company. No. 130,819; May 4; v. 274; p. 187.
Seeds, Corn, grass, and field. H. E. Conklin. No. 130,684; May 4; v. 274; p. 183.
Seeds, Field and grass. Kellogg Seed Co. No. 131,150; May 4; v. 274; p. 197.
Seeds, Field, garden, and flower. A. R. Bruns. No. 130,623; May 4; v. 274; p. 182.
Shirts, Dress-. Commercial Shirt Company. No. 131,068; May 4; v. 274; p. 195.
Shirts, Men's. Brownstein-Louis Company. No. 130,656–7; May 4; v. 274; p. 183.
Shirts, Work-. Reliance Manufacturing Company. No. 130,876; May 4; v. 274; p. 144.
Shoe-buckles, combs, &c., Metal. Trifari & Krussman. No. 130,950; May 4; v. 274; p. 191.
Shoe fabrics. Peters Manufacturing Company. No. 130,863; May 4; v. 274; p. 189.
Shoe-polishing paste. W. Newman. No. 131,201; May 4; v. 274; p. 199.
Shoes. Dudclif & Company. No. 131,094; May 4; v. 274; p. 196.
Shoes. Johnson, Stephens & Shinkle Shoe Company. No. 131,144; May 4; v. 274; p. 197.
Shoes and slippers, Children's and misses'. The Just Shoe Company. No. 131,145; May 4; v. 274; p. 197.
Shoes, boys' and girls'. H. F. Malott Shoe Co. No. 130,810; May 4; v. 274; p. 187.
Shoes, Canvas outing-. Apsley Rubber Company. No. 130,621; May 4; v. 274; p. 181.
Shoes, Ladies'. D. Cohn. No. 130,676; May 4; v. 274; p. 183.
Shoes, Leather. Milton J. Meyer & Co. No. 130,832; May 4; v. 274; p. 188.
Shoes, Leather. United States Rubber Company. No. 131,250; May 4; v. 274; p. 200.
Shoes, Leather, rubber &c. Marathon Shoe Co. No. 130,812; May 4; v. 274; p. 187.
Shoes made of rubber and canvas. United States Rubber Company. No. 130,958. May 4; v. 274; p. 192.

Shoes, Women's leather. Homan-Hughes Company. No. 130,757; May 4; v. 274; p. 186.
Shortening and frying medium. Aspegren & Co. No. 131,026 May 4; v. 274; p. 194.
Silk and cotton piece goods and combinations of same. Turner & Walls. No. 131,247; May 4; v. 274; p. 200.
Silk and satin piece goods. McLane Silk Company. No. 131,180; May 4; v. 274; p. 198.
Silk piece goods. Bentley & Twohey Silk Co. No. 131,037; May 4; v. 274; p. 194.
Silk piece goods. Empire Silk Company. No. 131,104; May 4; v. 274; p. 196.
Skins and sponges, Chamois-. D. J. Lindner. No. 131,169. May 4; v. 274; p. 198.
Sleeping-garments. S. Ballin. No. 131,033; May 4; v. 274; p. 194.
Snap-fasteners. United Trimming Co. No. 130,959; May 4; v. 274; p. 192.
Soap. Peerless Mineral Products Co. No. 131,207; May 4; v. 274; p. 199.
Soap. Peet Bros. Manufacturing Co. No. 131,208; May 4; v. 274; p. 199.
Soap. Schofield Oil Co. No. 131,234; May 4; v. 274; p. 200.
Soap. J. R. Williams Company. No. 131,270; May 4; v. 274; p. 201.
Soap, toilet and laundry. Grand Union Tea Co. No. 131,128; May 4; v. 274; p. 197.
Soaps for hygienic and medical purposes. Societa Industrie Chimiche Ittiolo. No. 131,239; May 4; v. 274; p. 200.
Soaps, soap tablets, and rug-cleaners, Laundry. C. C. Cummings. No. 131,072; May 4; v. 274; p. 195.
Solder. Federal Mfg. Co. No. 130,718; May 14; v. 274; p. 184.
Soles and heels, Boot and shoe. Armstrong Cork Company. Nos. 130,624–5; May 4; v. 274; p. 182.
Soles and heels, Leather. C. G. Fleckenstein Co. No. 131,111; May 4; v. 274; p. 196.
Spades, shovels. C. Osmundson. No. 130,854; May 4; v. 274; p. 188.
Spaghetti and macaroni. Grand Union Tea Co. No. 131,126; May 4; v. 274; p. 197.
Spark-plugs. The Visible Spark Plug Co. No. 130,968; May 4; v. 274; p. 192.
Sparklers. Victory Sparkler Company. No. 130,966; May 4; v. 274; p. 192.
Steel. R. Grant. No. 130,737; May 4; v. 274; p. 185.
Steel bars, rods, blocks, and forgings. Crucible Steel Company of America. Nos. 130,691–2; May 4; v. 274; p. 184.
Sterilizers, Electric. The Automatic Electric Sterilizer Co. No. 131,028; May 4; v. 274; p. 194.
Stockings and socks. Louis Brun Fils. Nos. 130,659–60; May 4; v. 274; p. 183.
Stove-polish. Grand Union Tea Co. No. 131,127; May 4; v. 274; p. 197.
Stove-polish. A. Hinkley. No. 131,139; May 4; v. 274; p. 197.
Sugar. American Sugar Refining Co. No. 131,021; May 4; v. 274; p. 193.
Sugar and cinnamon combination. M. C. McKenna. No. 130,807; May 4; v. 274; p. 187.
Suits and overcoats, Men's. B. H. Levy Bros. & Co. No. 131,166; May 4; v. 274; p. 198.
Suits and overcoats, Men's. B. H. Levy & Bro. & Co. No. 130,794; May 4; v. 274; p. 187.
Suits and overcoats, Men's and youths'. W. P. Goldman & Bros. Inc. No. 131,124; May 4; v. 274; p. 197.
Suits and rompers, Children's. Kiddie Kover Manufacturing Company. No. 130,778; May 4; v. 274; p. 186.
Suits, coats, vests, &c., Men's and boys'. Leopold Solomon and Eisendrath. No. 131,165; May 4; v. 274; p. 198.
Suits, dresses, and skirts, Women's. Kux Brothers. No. 130,788; May 4; v. 274; p. 187.
Suits, Men's. Hays, Levi & Co. No. 131,134; May 4; v. 274; p. 197.
Suspenders and garters. Nu-Way Strech Suspender Company. No. 131,203; May 4; v. 274; p. 199.
Suspenders and men's garters. J. Ziff. No. 131,008; May 4; v. 274; p. 193.
Suspenders, garters, armbands, &c. J. Silberman. No. 130,917; May 4; v. 274; p. 190.
Suspenders, garters, hose-supporters, &c. Rice-Stix Dry Goods Company. No. 130,881; May 4; v. 274; p. 189.
Suspenders, waist-belts for supporting wearing-apparel, &c. Lion Manufacturing Company. No. 131,171; May 4; v. 271; p. 198.
Suspensory straps. New-Energy Appliance Company. No. 130,846; May 4; v. 274; p. 188.
Sweepers, Electric suction-. Hoover Suction Sweeper Company. No. 130,756; May 4; v. 274; p. 186.
Syrup for baking purposes, Malt-. O. E. Maurer. No. 131,183; May 4; v. 274; p. 198.
Syrup made of cane-sugar. Archbold Manufacturing Corporation. No. 130,622; May 4; v. 274; p. 181.
Syrup, Malt and corn. Glacier Products Company. No. 130,734; May 4; v. 274; p. 185.
Syrups, Bakers' and confectioners'. Philadelphia Malt Extract Company. No. 131,210; May 4; v. 274; p. 199.
Syrups, Table-. Nulomoline Company. No. 130,852; May 4; v. 274; p. 188.
Table covers, napkins, &c. Arsenio Jose Froes & Company. No. 130,626; May 4; v. 274; p. 182.
Tags, Job and delivery. Albert Jacobs Company. No. 131,143; May 4; v. 274; p. 197.
Talking-machine needles. B. & H. Fibre Mfg. Co. No. 130,719; May 4; v. 274; p. 184.
Tanks. Riverside Boiler Works. Nos. 130,887–8; May 4; v. 274; pp. 189–90.
Tar for roofing composition. The Procter and Gamble Company. No. 131,216; May 4; v. 274; p. 199.
Tea. Grand Union Tea Co. No. 130,736; May 4; v. 274; p. 185.
Tea, spices, cocoa, mustard, &c. Stiles-Pellens Coffe Company. No. 131,244; May 4; v. 274; p. 200.
Teas. Gertrude H. Ford Tea Company. No. 130,722; May 4; v. 274; p. 185.
Teeth, Artificial. The Columbus Dental Manufacturing Company. No. 130,679; May 4; v. 274; p. 183.
Teeth, Compositions for fitting false. Anti-Pyorrhea Chemical Company. No. 130,620; May 4; v. 274; p. 181.
Telegraph apparatus, Detectors for. The Connecticut Telephone & Electric Company. No. 130,685; May 4; v. 274; p. 183.
Telephone-transmitter mouthpiece attachment. Anti-Bacilli Company. No. 131,023; May 4; v. 274; p. 194.
Telephone-transmitter sanitary protectors. Sanitary Phone Corporation. No. 130,904; May 4; v. 274; p. 190.
Threads and yarns. Richardson Silk Co. No. 131,222; May 4; v. 274; p. 200.
Timers, Ignition-. Blublaze Motor Specialties Corporation. No. 130,645; May 4; v. 274; p. 182.
Tire pumps, Automobile-. Force Air Pump Company. No. 130,721; May 4; v. 274; p. 185.
Tobacco. The American Tobacco Company. Nos. 130,615–16; May 4; v. 274; p. 181.
Tobacco. R. J. Reynolds Tobacco Company. No. 130,879; May 4; v. 274; p. 189.
Tobacco and cigarettes. The American Tobacco Company. No. 130,617; May 4; v. 274; p. 181.
Toilet preparation. G. C. Bittner Co. No. 131,039; May 4; v. 274; p. 194.
Tonic, Plant-. Nevada Chemical Company. No. 131,200; May 4; v. 274; p. 199.
Tools and parts thereof. The Billings & Spencer Company. No. 130,638; May 4; v. 274; p. 182.
Tooth-filling. W. G. Turner. No. 130,951; May 4; v. 274; p. 191.
Tools. Harrold Tool & Forge Co. No. 131,133; May 4; v. 274; p. 197.
Tools, Pitard's, Inc. No. 131,213; May 4; v. 274; p. 199.
Tools, Mechanics' hand. Mayhew Steel Products. No. 130,828; May 4; v. 274; p. 188.
Topping for ice-cream sundaes and hot chocolate. Nebraska Fountain & Supply Co. No. 130,845; May 4; v. 274; p. 188.
Toy vehicles. H. D. Lafferty. No. 131,009; May 4; v. 274; p. 193.
Toys, Wooden. G. Sato. No. 130,905; May 4; v. 274; p. 190.
Tractors. Wallis Tractor Company. No. 130,982; May 4; v. 274; p. 192.
Trolleys, cranes, and tongs, for hoisting, &c., and portable elevators. New Jersey Foundry & Mach. Co. No. 130,848; May 4; v. 274; p. 188.
Trousers. Robert Lawson & Sons. No. 130,791; May 4; v. 274; p. 187.
Trousers-supporters. L. Woods. No. 131,273; May 4; v. 274; p. 201.
Trucks and passenger-automobiles, Motor-. Stewart Motor Corporation. No. 130,932; May 4; v. 274; p. 191.
Trucks, Automobile-. American Commercial Car Co. No. 131,016; May 4; v. 274; p. 193.
Trucks, Automobile-. The Kelly-Springfield Motor Truck Company. Nos. 131,151–2; May 4; v. 274; p. 197.
Trucks, Motor-. F. W. Ruggles. No. 131,229; May 4; v. 274; p. 200.
Twine. American Twine Co. No. 130,618; May 4; v. 274; p. 187.
Underwear. The B. V. D. Company. No. 130,663; May 4; v. 274; p. 183.
Underwear. Cooper Underwear Company. No. 131,070; May 4; v. 274; p. 195.
Underwear. Universal Merchandise Company. No. 130,961; May 4; v. 274; p. 192.
Underwear. Ladies' silk and cotton woven. Lehman Brothers. No. 131,164; May 4; v. 274; p. 198.
Underwear, Ladies' silk. Graceline Manufacturing Company. No. 130,735; May 4; v. 274; p. 185.
Underwear, petticoats, and waists. Carteret Silk Company. No. 130,667; May 4; v. 274; p. 183.
Upholstery and cabinet hardware. Berbecker & Rowland Manufacturing Company. No. 131,038; May 4; v. 274; p. 194.
Valve grinders and refacing tools, &c. Albertson & Company. No. 130,599; May 4; v. 274; p. 181.
Valve-grinding compounds. S. & P. Manufacturing Co. No. 131,231; May 4; v. 274; p. 200.
Valves for machinery. Nash Engineering Co. No. 130,838; May 4; v. 274; p. 188.
Vaults, Grave-. National Grave Vault Company. No. 130,841; May 4; v. 274; p. 188.

Vehicle bodies, Commercial-motor-. Vehicle Top & Supply Company. No. 131,259; May 4; v. 274; p. 201.
Vehicle-tops. The General Top Company. No. 131,117; May 4; v. 274; p. 196.
Vellings and nettings. Traub, Lewis & Co. No. 130,948; May 4; v. 274; p. 191.
Ventilators, Cowl-. E. Van Noorden & Co. No. 131,255; May 4; v. 274; p. 201.
Voltmeters, Armature-testers, &c. American Bureau of Engineering. No. 130,604; May 4; v. 274; p. 181.
Walnut sauce and pickled walnuts. California Walnut Sauce Co. No. 130,664; May 4; v. 274; p. 183.
Watches. Knickerbocker Watch Co. Nos. 131,156–8; May 4; v. 274; p. 198.
Watches. Simmons Hardware Company. No. 130,918; May 4; v. 274; p. 190.
Watches and clocks. E. Rothman. No. 130,895; May 4; v. 274; p. 190.
Watches and clocks. Thos. Russell & Son. No. 130,900; May 4; v. 274; p. 190.
Waterproof diaper-covers. The Warner Bros. Co. No. 130,985; May 4; v. 274; p. 192.
Waterproof dressing for leather, &c. G. W. Baker. No. 131,030; May 4; v. 274; p. 194.
Waterproof goods. Union City Manufacturing Co. No. 130,953; May 4; v. 274; p. 191.
Webbings. Anchor Webbing Co. No. 130,619; May 4; v. 274; p. 181.
Wheels, Automobile and aeroplane. Reliance Wheel Co. No. 130,890; May 4; v. 274; p. 190.
Wheels, Cast-metal vehicles-. Kenosha Wheel & Axle Company. No. 131,153; May 4; v. 274; p. 197.
Whistles, Electric steam alarm-. C. M. Lovsted. No. 130,799; May 4; v. 274; p. 187.
Whiting. R. T. Vanderbilt Company. No. 131,253; May 4; v. 274; p. 201.
Woolen piece goods. Forstmann & Huffmann Co. No. 130,723; May 4; v. 274; p. 185.
Worsted-winders. E. B. Estes & Sons. No. 131,105; May 4; v. 274; p. 196.
Wrenches. J. H. Faw Inc. No. 130,717; May 4; v. 274; p. 184.
Wrenches, Ratchet-. W. B. Lane. No. 130,995; May 4; v. 274; p. 193.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Analgesic and antipyretic. The Bayer Company. Nos. 110,799–800; May 4; v. 274; p. 153.
Anesthetics, Local. Novocol Chemical Mfg. Co. No. 126,388; May 4; v. 274; p. 167.
Apparel known as jerseys, Wearing-. N. Halperin. No. 122,398; May 4; v. 274; p. 159.
Apples. Central States Orchards Co. No. 120,816; May 4; v. 274; p. 157.
Aspirin. Smith, Kline & French Co. No. 124,450; May 4; v. 274; p. 162.
Automobiles. La Fayette Motor Company. Nos. 127,292–3; May 4; v. 274; p. 171.
Automobiles, Wind-deflectors for. A. F. Kipper. No. 124,217; May 4; v. 274; p. 162.
Baking plant sold as a unit. Peoples System of Bakeries. No. 128,979; May 4; v. 274; p. 179.
Belts for supporting wearing-apparel. G. H. Tyler & Co. No. 126,494; May 4; v. 274; p. 167.
Blouses. National Cloak & Suit Co. No. 123,252; May 4; v. 274; p. 161.
Bonbons and chocolates. George S. Dilas & Company. No. 118,906; May 4; v. 274; p. 156.
Boots and shoes. Griggs-Paxton Shoe Co. No. 122,890; May 4; v. 274; p. 160.
Boots and shoes. Thos. H. Logan Co. No. 126,967; May 4; v. 274; p. 170.
Boots, shoes, and slippers. Nath'l Fisher & Co. No. 126,793; May 4; v. 274; p. 169.
Boots, shoes, and slippers of leather, rubber, and other material. Nath'l Fisher & Co. No. 127,503; May 1; v. 274; p. 172.
Brake-band lining. Reflex Auto Accessory Co. No. 126,141; May 4; v. 274; p. 166.
Bread. Cochran & Horseman. No. 122,206; May 4; v. 274; p. 159.
Bread. John R. Thompson Co. No. 125,550; May 4; v. 274; p. 164.
Butter. Longino & Collins. No. 127,927; May 4; v. 274; p. 175.
Cake and Cookies. C. & F. W. Comstock. No. 121,456; May 4; v. 274; p. 158.
Candies. M. M. Diffenbacher. No. 127,799; May 4; v. 274; p. 174.
Candies and Chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 116,549; May 4; v. 274; p. 155.
Candy. W. D. Buchanan. No. 118,038; May 4; v. 274; p. 156.
Candy. C. C. Delmonico. No. 128,426; May 4; v. 274; p. 177.
Candy. D. E. Hamburger. No. 125,154; May 4; v. 274; p. 163.
Candy. A. T. Harrell. No. 128,503; May 4; v. 274; p. 178.
Candy. W. A. Miller. No. 128,216; May 4; v. 274; p. 176.
Candy. The Robert F. Mackenzie Co. No. 127,376; May 4; v. 274; p. 171.
Candy. A. G. Morse Co. No. 128,692; May 4; v. 274; p. 178.
Candy. Tiffin Products, Inc. No. 126,399; May 4; v. 274; p. 167.
Candy, Chocolate. The United Drug and Candy Manufacturing Company. No. 128,258; May 4; v. 274; p. 177.
Candy, Marshmallow. The Edward M. Becker Company. No. 127,885; May 4; v. 274; p. 175.
Canned fish, fruits, and vegetables. G. W. Hume Company. No. 128,844; May 4; v. 274; p. 179.
Canned foods. H. P. Strasbaugh. No. 128,746; May 4; v. 274; p. 178.
Canned fruit. W. R. Grace & Co. No. 126,930; May 4; v. 274; p. 170.
Canned fruits and vegetables. Bisceglia Brothers. No. 128,823; May 4; v. 274; p. 179.
Canned fruits, jams, and preserves. The Shaw Family, Inc. No. 127,937; May 4; v. 274; p. 175.
Canned fruits, vegetables and fish. A. Rubert Company. No. 126,066; May 4; v. 274; p. 165.
Canned lye, bluing, and ammonia in glass. Johnson & Murray, Inc. No. 126,864; May 4; v. 274; p. 169.
Canned peaches, pears, and tomatoes. Popular Canning Co. No. 127,931; May 4; v. 274; p. 175.
Caps, Men's and boys'. Fine & Levy. No. 126,630; May 4; v. 274; p. 168.
Chemicals, Organic. Davidson Brothers. No. 122,010; May 4; v. 274; p. 159.
China and semiporcelain earthenware, Ironstone. J. & G. Meakin. No. 123,288; May 4; v. 274; p. 161.
Chocolate bars, Pure milk-. P. K. Condrell. No. 126,352; May 4; v. 274; p. 167.
Chocolate. Norma Chocolate Company. No. 128,314; May 4; v. 274; p. 177.
Chocolates. S. Agoratos. No. 119,729; May 4; v. 274; p. 156.
Cleaning, scouring, and polishing powder for metal, glass, &c. Texas Oil, Gas, & Mineral Products Co. No. 121,881; May 4; v. 274; p. 158.
Cleansing compound for typewriters and other metal type, &c., Chemical. The Clarotype Company. No. 125,219. May 4; v. 274; p. 164.
Cleansing, scouring, and polishing powder for metal, glass, &c. Texas Oil, Gas & Mineral Products Company. No. 120,854; May 4; v. 274; p. 158.
Clothing for women and children, Outer and under. L. Stix & Co. No. 127,981; May 4; v. 274; p. 175.
Coffee. Austin-Nichols & Company. No. 116,734; May 4; v. 274; p. 155.
Coffee and tea. D. S. Jones. No. 123,125; May 4; v. 274; p. 161.
Collars, Coat-. D. R. Paskle & Co. No. 126,539; May 4; v. 274; p. 167.
Confectionery article consisting of honey nougat. W. R. Browne. No. 123,725; May 4; v. 274; p. 161.
Corsets, corset-waists, shirt-waists, dresses, hats, &c. C. N. Adelmann. No. 126,342; May 4; v. 274; p. 166.
Corundum in bulk. American Abrasive Company. No. 126,437; May 4; v. 274; p. 167.
Cotton and knit piece goods, muslins, ribbons, webs, and webbing, &c. Rider Wallis Dry Goods Co. No. 128,218; May 4; v. 274; p. 176.
Cotton piece goods. Hyman Bauman & Co. No. 128,197; May 4; v. 274; p. 176.
Cotton piece goods. Warner-Godfrey Co. No. 128,576; May 4; v. 274; p. 178.
Cotton piece goods. Watts, Stebbins & Co. No. 129,115; May 4; v. 274; p. 180.
Cravats, shirts, night-shirts, pajamas, and underwear. S. S. Loeb & Co. No. 123,746; May 4; v. 274; p. 162.
Cream for the skin, Toilet. Lapeyre Brothers. No. 127,373; May 4; v. 274; p. 171.
Cream, powder, perfumes, toilet waters, rouge, Face-. G. F. Batchelder. No. 126,984; May 4; v. 274; p. 170.
Disinfectants, insecticides, and germicides. Rochester Germicide Company. No. 123,078; May 4; v. 274; p. 160.
Draperies, &c. Marshall Field & Company. No. 128,430; May 4; v. 274; p. 178.
Dresses, Children's. The Little Goddess Dress Co. No. 118,992; May 4; v. 274; p. 156.

Drills, reamers, machine-knives, &c., Twist-. Moses Eadon & Sons. No. 120,343; May 4; v. 274; p. 157.
Dye, Leather-. Whittemore Brothers Corporation. No. 113,783; May 4; v. 274; p. 154.
Dyestuffs. Jennings & Company. No. 127,288; May 4; v. 274; p. 171.
Dyestuffs. Sonn Brothers Company. No. 126,153; May 4; v. 274; p. 166.
Engines and parts thereof, Explosive-. The Burnett-Larsh Manufacturing Company. No. 127,112; May 4; v. 274; p. 171.
Fats produced by hydrogenation of vegetable and animal oils and fats. De Nordiske Fabriker, De-No-Fa. No. 123,311; May 4; v. 274; p. 161.
Fats produced by hydrogenation of vegetable and animal oils and fats. De Nordiske Fabriker, De-No-Fa, Aktieselskab. No. 120,989; May 4; v. 274; p. 158.
Flour, bran, middlings, &c., Wheat-. A. Dodge & Son Corp. No. 128,297; May 4; v. 274; p. 177.
Flour, Enriched pastry-. R. Maurice and Company. No. 116,185; May 4; v. 274; p. 154.
Foods, Sea. Neptune Fisheries. No. 126,419; May 4; v. 274; p. 167.
Fruit—namely, grape-fruit, Citrus. J. W. Reed. No. 127,660; May 4; v. 274; p. 174.
Fruit preserves, raspberry jam, canned salmon. A. Rupert Company. No. 126,541; May 4; v. 274; p. 168.
Fruits, jams, and preserves, Canned. The Shaw Family. No. 127,938; May 4; v. 274; p. 175.
Fruits, jellies, jams, &c., Preserved. Gordon & Dilworth. No. 115,529; May 4; v. 274; p. 154.
Furniture and reproductions of period furniture. Somma Shops, Inc. No. 122,556; May 4; v. 274; p. 160.
Fuses, motors, lamps, &c., Electric. Multiple Electric Products Company. No. 125,793; May 4; v. 274; p. 165.
Ginghams, cotton goods, silk and cotton goods in the piece. Sanger Brothers. No. 128,113; May 4; v. 274; p. 176.
Glass, Sheet-. The Super-Glass Co. No. 116,043; May 4; v. 274; p. 154.
Glassware, Table-. Tiffany and Company. No. 128,245; May 4; v. 274; p. 176.
Glassware, Table-. Tiffany and Company. No. 128,247; May 4; v. 274; p. 177.
Gowns for outer wear, Ladies'. J. Nemser. No. 126,872; May 4; v. 274; p. 169.
Hair-nets. The Bloch Chemical Company. No. 128,073; May 4; v. 274; p. 176.
Hair-nets. Hartmann Brothers. No. 126,381; May 4; v. 274; p. 167.
Hair-nets and laces. N. Seligman Merchandise Co. No. 118,939; May 4; v. 274; p. 156.
Hair-restorer. C. L. Waters. No. 121,702; May 4; v. 274; p. 158.
Hair-tonic. M. Faehner. No. 125,153; May 4; v. 274; p. 163.
Hams, bacon, and picnic-hams. J. E. Decker & Sons. No. 125,368; May 4; v. 274; p. 164.
Handkerchiefs. Hyman Bauman & Co. No. 125,172; May 4; v. 274; p. 163.
Handkerchiefs. The International Handkerchief Mfg. Co. No. 128,440; May 4; v. 274; p. 178.
Heaters, Gas-. J. I. Robin. No. 127,448; May 4; v. 274; p. 172.
Hosiery. Rodgers Hosiery Company. No. 127,185; May 4; v. 274; p. 171.
Incense. S. C. Ghosh. No. 126,575; May 4; v. 274; p. 168.
Insecticide and fungicide. J. M. Jones. No. 125,702; May 4; v. 274; p. 164.
Iron, steel, tinplate, iron and steel bars and plates, black and galvanized wire, Sheet. American Iron Products Company. No. 127,532; May 4; v. 274; p. 172.
Irons, Electric flat-. Chicago Flexible Shaft Company. No. 122,109; May 4; v. 274; p. 159.
Journey to the moon, Apparatus symbolizing a. S. P. Thompson. No. 124,289; May 4; v. 274; p. 162.
Laces and embroideries in the piece. Blanck & Co. No. 117,432; May 4; v. 274; p. 155.
Lamps, candlesticks, and candelabra, Non-electric. Tiffany and Company. Nos. 128,248–9; May 4; v. 274; p. 177.
Lard substitute. Hodgson Oil Refining Co. No. 124,685; May 4; v. 274; p. 163.
Lathes, Engine-. South Bend Lathe Works. No. 129,024; May 4; v. 274; p. 180.
Lead products. Lead Products Company. No. 122,991; May 4; v. 274; p. 160.
Lingerie, underwear, shoes, &c., Philippine. Jureidini Export Company. No. 125,155; May 4; v. 274; p. 163.
Liniment for rheumatism, headaches, cuts, bruises, burns, &c. Universal Remedies Company. No. 127,070; May 4; v. 274; p. 170.
Liniment for sprains, &c. E. Baldwin. No. 103,581; May 4; v. 274; p. 153.
Local anesthetic, sodium phenique compound, and dental medicines for treating pyorrhea. The Ransom & Randolph Company. No. 124,492; May 4; v. 274; p. 163.
Marble and stone. G. D. Jackson & Co. Nos. 127,551–60; May 4; v. 274; pp. 173–4.
Mats for automobiles, Fibrous rubber floor-board. Rub-Tex Organization Company. No. 122,997; May 4; v. 274; p. 160.
Mattresses. Silkheart Mattress Co. No. 125,916; May 4; v. 274; p. 165.
Meat, Rabbit-. L. A. Scandrett. No. 114,487; May 4; v. 274; p. 154.
Medicinal compound for use as liver-regulator and general tonic. C. L. Bolt. No. 126,269; May 4; v. 274; p. 166.
Medicinal preparation for coughs, colds, bronchitis, pleurisy, &c. Senorct Chemical Co. No. 127,400; May 4; v. 274; p. 172.
Medicinal preparation used as a dentifrice and for treating pyorrhea. M. A. Kelly. No. 124,795; May 4; v. 274; p. 163.
Medicinal treatment for catarrhal conditions. Acme Chemical Mfg. Co. No. 126,836; May 4; v. 274; p. 169.
Medicinal treatment for skin diseases. E. M. Hughes. No. 126,279; May 4; v. 274; p. 166.
Medicine for constipation, pellagra, dropsy, &c. J. H. Mims. No. 125,236. May 4; v. 274; p. 164.
Metal-polish. B. H. Arnhelm. No. 126,440; May 4; v. 274; p. 167.
Metal-polish. The G. & H. Chemical Co. No. 126,855; May 4; v. 174; p. 169.
Milk, Preparations for the modification of. Horlick's Food Company. No. 120,457; May 4; v. 274; p. 157.
Milling-cutters, twist-drills, machine-knives, &c. John Kenyon & Co. (Sheffield). No. 119,899; May 4; v. 274; p. 157.
Oars, sweeps, and sculls. New York Boat Oar Co. No. 127,769; May 4; v. 274; p. 174.
Oil, Road-. Headley Good Roads Company. No. 101,650; May 4; v. 274; p. 153.
Oils and greases, Lubricating. R. P. Searle. Nos. 123,177–8; May 4; v. 274; p. 161.
Oils for guns, &c., Lubricating-. L. C. Scott. No. 116,504; May 4; v. 274; p. 155.
Ointment for growth and darkening of eyebrows and eyelashes. G. W. Ross. No. 127,523; May 4; v. 274; p. 172.
Oleomargarin. Kellogg Products, Inc. No. 128,270; May 4; v. 274; p. 177.
Oranges, Fresh. A. L. Woodill. No. 115,303; May 4; v. 274; p. 154.
Packing, Metallic rod-. Rhodes Metallic Packing Co. No. 126,068; May 4; v. 274; p. 165.
Paper and cloth strips or tapes in rolls and strips and tape-moistening machines. New Products Company. No. 119,244; May 4; v. 274; p. 156.
Parcel-post packages. Par Po Mfg. Co. No. 126,590; May 4; v. 274; p. 168.
Peanut-butter. Woldert Peanut Products Co. No. 126,889; May 4; v. 274; p. 170.
Peanuts and peanut-butter. Clarke Bros. Stores. No. 120,744; May 4; v. 274; p. 157.
Perfumery. McKesson & Robbins. No. 125,294; May 4; v. 274; p. 164.
Pianos. B. Shoninger Co. No. 126,395; May 4; v. 274; p. 167.
Picture films, Moving-. The Bray Pictures Corporation. No. 129,872; May 4; v. 274; p. 180.
Pipe-rail fittings. S. J. Guleslan. No. 127,644; May 4; v. 274; p. 174.
Plasters, Medicated. Bauer & Black. No. 126,985; May 4; v. 274; p. 170.
Powder for making meringue, marshmallow, cake fillings and icings, &c. S. Gumpert & Co. No. 128,838; May 4; v. 274; p. 179.
Powders, milk of magnesia, cough-syrup, &c., Talcum and chafing. United Drug Company. No. 127,621; May 4; v. 274; p. 174.
Preparation for the treatment of the teeth. The Pemetine Company. No. 125,059; May 4; v. 274; p. 163.
Preparations for relief of headaches and neuralgia. Vancouver Drug Company. No. 124,457; May 4; v. 274; p. 162.
Printing-press inking-rollers. The B. F. Goodrich Company. No. 126,022; May 4; v. 274; p. 165.
Printing-presses and parts thereof. Lisenby Manufacturing Company. No. 123,249; May 4; v. 274; p. 161.
Pudding, Prepared. H. J. Buehler. No. 121,969; May 4; v. 274; p. 158.
Quilts, cotton and wool blankets, and traveling-rugs. Rogers, Hennessey & Jenkins. No. 128,325; May 4; v. 274; p. 177.
Radiator compound for internal-combustion engines. The Chamberlain-Haber Chemical Co. No. 126,895; May 4; v. 274; p. 170.
Refrigerating-machines. Automatic Carbonic Machine Company. No. 122,506; May 4; v. 274; p. 160.
Regulators and parts thereof for steam-valves, &c. Aktiebolaget Arca Regulatorer. No. 114,873; May 4; v. 274; p. 154.
Remedies, Scalp. T. J. Yntema. No. 113,153; May 4; v. 274; p. 153.
Ribbons, handkerchiefs, sheets, veils, lace, &c. Richardson Dry Goods Co. No. 125,859; May 4; v. 274; p. 165.
Riding-habits, Ladies'. P. Nardi. No. 126,483; May 4; v. 274; p. 167.
Roofing, Prepared. Carpenter-Morton Company. No. 117,106; May 4; v. 274; p. 155.
Rope yarns, cotton twines and cordage. Eagle Cotton Mills Co. No. 125,322; May 4; v. 274; p. 164.

(REGISTRATION APPLIED FOR.)

Rubber-compound floor-covering. United States Rubber Company. No. 120,778; May 4; v. 274; . 157.
Rubber merchandise, Manufactured. General Rubber Goods Company. No. 117,403; May 4; v. 274; p. 155.
Salve or ointment for catarrh, hay-fever, burns, &c. S. D. Clark. No. 123,840; May 4; v. 274; p. 162.
Sardines. Lawrence Canning Co. No. 129,016. May 4; v. 274; p. 180.
Shirts, Men's dress-. M. Menzin. No. 121,311; May 4; v. 274; p. 158.
Shirts, Work-. Reliance Manufacturing Company. No. 126,821; May 4; v. 274; p. 169.
Shoes and juliettes, Leather. Lunn & Sweet Co. No. 124,999; May 4; v. 274; p. 163.
Shoes and slippers of leather, &c. A. J. Bates & Company. No. 128,138; May 4; v. 274; p. 176.
Shoes, Leather. O. Gentile. No. 123,929; May 4; v. 274; p. 162.
Shoes, Leather. Otto Meyer and Co. No. 125,757; May 4; v. 274; p. 164.
Silk and cotton fabrics, Light-weight woven. Louis Roessel & Co. No. 114,978; May 4; v. 274; p. 154.
Silk and cotton piece goods and combinations of same. W. Skinner & Sons. No. 128,530; May 4; v. 274; p. 178.
Silk-filled crêpe de chine piece goods. Nathan and Cohen Co. No. 128,312; May 4; v. 274; p. 177.
Silk goods in the piece. Henri Gutmann Silks Corporation. No. 129,011; May 4; v. 274; p. 179.
Silk goods in the piece. T. J. Mitchell & Co. No. 127,824; May 4; v. 274; p. 174.
Silk piece goods. S. Eiseman & Co. No. 128,834; May 4; v. 274; p. 179.
Silk piece goods. Empire Silk Company. No. 128,885; May 4; v. 274; p. 179.
Slippers. Pierre E. Giroux & Co. No. 126,767; May 4; v. 274; p. 169.
Smocks and aprons. B. H. Plummer. 128,107; May 4; v. 274; p. 176.
Snap-fasteners. Waldes & Co. No. 128,947; May 4; v. 274; p. 179.
Soaps and soap powders. Grain Soaps Corporation. No. 124,107; May 4; v. 274; p. 162.
Soaps and soap powders. Grain Soaps Corporation. No. 126,932; May 4; v. 274; p. 170.
Sound-reproducing machines, Electrical-lighting attachments for. Standard Accessory Corporation. No. 127,524; May 4; v. 274; p. 172.
Spaghetti, macaroni, vermicelli, and egg-noodle. Fortune Products Company. Nos. 127,805–6; May 4; v. 274; p. 174;.
Spectacles, eyeglasses, eyeglass-mountings, ophthalmic lenses, &c. Wall & Ochs. No. 130,400; May 4; v. 274; p. 180.
Sugar. The Tropics Corporation. No. 127,407; May 4; v. 274; p. 172.
Sundaes. M. R. Blackman. No. 116,076; May 4; v. 274; p. 154.
Syrup, blended cane and maple table-. Vermont Maple Syrup Company. No. 119,459; May 4; v. 274; p. 156.
Syrup, Cane and maple. The F. N. Johnson Maple Syrup Company. No. 128,973; May 4; v. 274; p. 179.
Syrup for baking purposes, Food-. O. E. Maurer. No. 120,172; May 4; v. 274; p. 157.
Syrup for food purposes, Malt. H. B. Fagan. No. 126,719; May 4; v. 274; p. 169.
Syrups, Cereal and sugar. The Nulomoline Company. No. 118,791; May 4; v. 274; p. 156.
Tablets for increasing the efficiency of gasolene, Chemical. I. R. Neher. No. 127,388; May 4; v. 274; p. 172.
Tables, Serving-. The John Van Range Co. No. 126,296; May 4; v. 274; p. 166.
Talking-machines. J. H. Weber. No. 120,862; May 4; v. 274; p. 158.
Teas. B. B. de Montmorency. No. 126,562; May 4; v. 274; p. 168.
Telephone sets, Devices for transmitting communication into transmitter of. M. Weil. No. 113,685; May 4; v. 274; p. 153.
Telephones, Sound-intensifiers for. T. Sjoquist. No. 125,253; May 4; v. 274; p. 164.
Tire-pumps, Hand-operated. Mayo-Skinner Manufacturing Company. No. 124,724; May 4; v. 274; p. 163.
Tires and tubes for vehicles. Rubber or rubber and fabric. McClaren Rubber Co. No. 126,586; May 4; v. 274; p. 168.
Tobacco, cigars, and cigarettes, Smoking and chewing. J. Christoforides. No. 123,514; May 4; v. 274; p. 161.
Toilet preparations. The United States Drug & Chemical Co. No. 126,295; May 4; v. 274; p. 166.
Tomatoes, cabbage, cantaloups, cucumbers, &c., Boxes of fresh. Mexican Products Corporation. No. 128,215; May 4; v. 274; p. 176.
Tonic, Laxative. The Manhattan Medicine Co. No. 125,794; May 4; v. 274; p. 165.
Toweling. J. F. White & Co. No. 127,987; May 4; v. 274; p. 175.
Treatment of eye trouble, Liquid for. D. D. D. Company. No. 119,825; May 4; v. 274; p. 157.
Typewriter-ribbons and carbon-paper. Galveston Typewriter Exchange. No. 116,771; May 4; v. 274; p. 155.
Underwear. Luxite Silk Products Co. No. 127,005; May 4; v. 274; p. 170.
Underwear and hosiery, Knit. Chipman Knitting Mills. No. 126,616; May 4; v. 274; p. 168.
Union-suits, Men's knitted. Cooper, Coate & Casey Dry Goods Co. No. 128,081; May 4; v. 274; p. 176.
Valves for cleaning out oil and gas pipes, &c. Tew Patent Development Company. No. 125,983; May 4; v. 274; p. 165.
Waists for outer wear, Ladies'. Shapiro Bros. & Mirsky. No. 127,401; May 4; v. 274; p. 172.
Waists, Ladies'. Reuben and Zukerman. No. 126,232; May 4; v. 274; p. 166.
Washboilers for laundry purposes. Sargoy Bros. No. 124,078; May 4; v. 274; p. 162.
Waterproof clothing. National Water-Proofing Company. No. 122,607; May 4; v. 274; p. 160.
Waterproof fabrics in the piece. The Pantasote Leather Company. No. 128,402; May 4; v. 274; p. 177.
Waterproof fabrics in the piece. The Pantasote Leather Company. No. 128,559; May 4; v. 274; p. 178.
Wheels, Grinding and polishing. Abrasive Company. No. 128,035; May 4; v. 274; p. 175.
Wire, metal stock drinking-cups and water-bowls, metal fencing, &c., Barbed. The Farm Equipment Co. No. 126,685; May 4; v. 274; p. 168.
Woolen goods in the piece. Worumbo Manufacturing Company. No. 129,364; May 4; v. 274; p. 180.
Woolens, whip-cords, silks, and linen, all in the piece. W. S. Gavey. No. 127,473; May 4; v. 274; p. 172.
Woolens, worsted, silk, &c., piece goods. Pearsall & Company. No. 127,830; May 4; v. 274; p. 175.
Worsted and woolen textile fabrics in the piece. Holden-Leonard Company. No. 128,504; May 4; v. 274; p. 178.
Writing fluid. Royal Ink and Mucilage Co. No. 128,112; May 4; v. 274; p. 176.

CLASSIFICATION OF PATENTS

ISSUED MAY 4, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 48: 1,339,307
2— 9: 1,339,129
53: 1,338,783
63: 1,339,274
114: 1,339,154
118: 1,339,286
144: 1,339,116
5— 4: 1,338,741
8: 1,339,250
58: 1,339,355
70: 1,338,774
8— 19: 1,339,184
9— 8: 1,339,321
10—120.5: 1,338,863
1,338,864
1,338,865
154: 1,339,223
12— 20: 1,338,957
146: 1,339,160
15— 13: 1,338,665
37: 1,338,821
41: 1,338,917
50: 1,339,065
56: 1,339,026
59: 1,339,216
1,339,241
60: 1,338,791
16— 173: 1,338,908
18— 17: 1,338,844
18: R. 14,852
1,339,151
55: 1,339,134
21— 69: 1,338,936
150: 1,339,298
151: 1,339,376
22— 32: 1,339,354
112: 1,339,133
206: 1,339,096
23— 3: 1,338,967
11: 1,338,678
13: 1,338,831
1,339,242
24: 1,338,979
1,339,310
28: 1,338,698
1,338,709
24— 3: 1,338,702
1,339,213
11: 1,338,933
1,339,359
16: 1,338,875
1,339,317
79: 1,339,309
81: 1,339,073
102: 1,339,314
106: 1,339,234
214: 1,338,883
231: R. 14,851
236: 1,338,686
241: 1,339,004
245: 1,338,733
25— 14: 1,338,799
121: 1,339,270
142: 1,338,771
28— 14: 1,339,182
29—1.11: 1,338,871
1,338,872
36: 1,338,742
81: 1,339,348
84: 1,338,697
1,339,210
86.1: 1,339,157
87.1: 1,339,289
103: 1,338,822
148: 1,338,779
30— 12: 1,338,908
24: 1,339,282
32— 1: 1,338,918
9: 1,338,959
33— 1: 1,338,730
47: 1,339,248
64: 1,338,951
67: 1,339,130
87: 1,338,935
109: 1,338,962
164: 1,338,932
33— 192: 1,338,800
199: 1,338,670
223: 1,338,666
34— 5: 1,338,696
1,338,731
1,339,032
1,339,365
6: 1,339,260
12: 1,339,092
39: 1,339,119
36— 13: 1,338,947
38: 1,338,817
37— 25: 1,338,784
30: 1,339,341
38— 10: 1,339,240
40— 2: 1,339,007
21: 1,339,180
64: 1,338,790
67: 1,338,703
86: 1,338,892
134: 1,339,019
41— 25.5: 1,339,127
31: 1,339,259
42— 3: 1,338,866
43— 12: 1,339,275
22: 1,339,238
32: 1,339,231
41: 1,338,877
45: 1,339,189
46: 1,338,856
1,338,953
61: 1,339,135
44— 8: 1,338,982
1,338,983
45— 27: 1,338,834
28: 1,339,166
31: 1,339,232
46— 4: 1,338,860
36: 1,338,879
40: 1,338,944
41: 1,338,973
1,339,251
45: 1,339,165
51: 1,338,813
61: 1,339,285
1,339,343
62: 1,338,963
64: 1,339,013
49— 7: 1,338,941
17: 1,339,229
47: 1,338,992
50: 1,339,200
51— 4: 1,338,685
1,339,027
7: 1,339,043
1,339,202
20: 1,338,920
1,339,185
52— 3: 1,338,691
6: 1,339,142
1,339,143
1,339,144
1,339,145
1,339,146
1,339,147
1,339,148
1,339,149
1,339,150
53— 3: 1,338,830
1,339,008
54— 65: 1,338,931
56— 10: 1,339,278
18: 1,338,773
202: 1,338,873
58— 127: 1,338,745
60— 11: 1,339,177
16: 1,339,176
61— 67: 1,339,293
64— 10: 1,339,084
25: 1,339,228
36: 1,339,308
38: 1,338,868
1,339,277
62: 1,338,939
64: 1,338,747
1,338,763
80: 1,338,904
64— 90: 1,338,751
105: 1,339,273
65— 45: 1,339,173
48: 1,339,164
53: 1,338,833
66— 6: 1,338,809
68— 29: 1,338,930
1,339,292
70— 14: 1,339,267
53: 1,338,796
122: 1,339,075
126: 1,338,913
128: 1,338,945
129: 1,339,329
72— 13: 1,339,062
46: 1,339,360
51: 1,338,885
85: 1,339,220
111: 1,339,226
73— 31: 1,338,981
98: 1,338,852
74— 1: 1,339,276
32: 1,338,808
34: 1,338,767
36: 1,339,097
41: 1,338,672
1,338,823
45: 1,339,380
46: 1,339,052
1,339,058
1,339,203
58: 1,338,974
66: 1,339,287
70: 1,338,980
100: 1,338,720
105: 1,338,780
75— 1: 1,338,826
1,338,966
1,339,009
1,339,378
17: 1,338,764
76— 35: 1,339,153
101: 1,339,152
77— 28: 1,338,752
32: 1,339,044
72: 1,339,118
78— 21: 1,339,054
80— 41: 1,339,108
81— 15: 1,338,804
1,339,217
66: 1,339,233
195: 1,338,773
82— 8: 1,339,017
19: 1,338,757
83— 12: 1,338,845
64: 1,339,098
71: 1,339,300
88: 1,339,161
84— 121: 1,339,318
135: 1,339,261
146: 1,339,196
85— 16: 1,338,988
39: 1,339,197
1,339,198
1,339,204
86— 48: 1,339,204
87— 6: 1,338,909
16: 1,339,126
88— 1: 1,339,342
2.7: 1,339,006
1,339,235
17: 1,338,695
1,339,366
24: 1,338,818
1,339,090
1,339,279
52: 1,338,880
56: 1,339,031
67: 1,338,738
214: 1,338,985
89— 1: 1,338,676
90— 15: 1,339,029
91— 12.2: 1,338,782
1,338,940
13: 1,339,106
1,339,107
92— 3: 1,338,827
23: 1,338,869
93— 44: 1,338,749
60: 1,339,315
94— 5: 1,338,801
18: 1,339,094
47: 1,339,069
95— 42: 1,339,319
77: 1,338,894
100: 1,339,088
97— 37: 1,339,040
66: 1,339,371
82: 1,339,222
99— 2: 1,339,212
1,339,323
11: 1,338,684
100— 44: 1,339,193
101— 28: 1,339,363
37: 1,339,050
178: 1,338,785
218: 1,339,316
232: 1,339,099
102— 39: 1,388,802
103— 8: 1,339,224
44: 1,339,347
54: 1,339,311
63: 1,338,765
1,338,906
1,338,943
1,338,820
65: 1,338,739
80: 1,338,907
84: 1,339,137
104— 7: 1,338,681
23: 1,338,663
59: 1,339,299
105— 341: 1,339,076
375: 1,338,805
429: 1,338,882
457: 1,338,728
1,339,379
106— 10: 1,339,266
107— 7: 1,339,087
108— 10: 1,339,033
110— 54: 1,338,897
1,338,898
1,338,922
1,338,924
1,338,925
1,338,956
1,339,000
74: 1,338,694
112— 5: 1,338,910
20: 1,339,230
86: 1,339,049
187: 1,339,243
235: 1,339,121
113— 61: 1,338,716
116: 1,339,104
114— 51: 1,338,816
65: 1,338,815
80: 1,338,712
240: 1,338,706
1,339,372
116— 1: 1,339,350
36: 1,339,071
40: 1,339,246
119: 1,338,861
147: 1,339,158
119— 8: 1,338,942
45: 1,338,725
120— 8: 1,339,155
24: 1,338,669
45: 1,339,011
121— 55: 1,338,832
138: 1,338,732
122— 6.7: 1,338,700
18: 1,338,760
123— 25: 1,338,993
51: 1,339,187
81: 1,339,110
119: 1,339,035
124: 1,338,915
143: 1,339,014
149: 1,338,758
1,338,990
169: 1,338,674
170: 1,338,722
1,338,938
123— 174: 1,338,750
180: 1,338,740
1,339,080
185: 1,338,668
188: 1,338,759
195: 1,338,721
126— 15: 1,339,268
36: 1,338,701
39: 1,338,870
43: 1,339,059
77: 1,338,855
1,339,039
214: 1,339,215
127— 9: 1,339,115
128— 48: 1,339,179
72: 1,338,735
73: 1,339,038
107: 1,338,991
159: 1,339,070
203: 1,338,905
239: 1,338,710
129— 16.5: 1,338,789
130— 32: 1,338,729
1,339,077
131— 6: 1,339,373
1,339,374
1,339,375
132— 17: 1,338,937
18: 1,338,687
1,338,748
133— 13: 1,338,683
134— 11: 1,338,811
51: 1,338,921
58: 1,339,219
135— 47: 1,339,162
1,339,257
137— 21: 1,338,846
1,339,083
1,339,244
75: 1,339,209
103: 1,339,074
104: 1,338,995
139— 27: 1,338,820
48: 1,339,295
85: 1,339,002
94: 1,339,313
140— 71: 1,338,886
1,338,887
141— 7: 1,338,949
142— 27: 1,338,819
143— 62: 1,338,977
135: 1,339,091
144— 91: 1,338,704
145— 3: 1,339,357
33: 1,339,139
146— 6: 1,339,364
1,339,367
1,339,086
1,339,254
147— 48: 1,339,063
148— 24: 1,338,736
25: 1,338,841
149— 16: 1,339,201
21: 1,339,093
150— 52: 1,338,693
151— 13: 1,339,120
29: 1,338,862
152— 53: 1,339,132
■ 114: 1,338,851
153— 56: 1,338,946
65: 1,338,737
71: 1,339,023
154— 8: 1,339,103
40: 1,339,327
155— 58: 1,339,296
90: 1,339,262
181: 1,338,806
184: 1,339,281
197: 1,339,068
156— 19: 1,339,353
21: 1,339,247
158— 13: 1,338,853
33: 1,338,840
36: 1,338,965
74: 1,338,679
76: 1,339,358
87: 1,339,207
94: 1,339,208
115: 1,339,102
161— 1: 1,338,761
26: 1,339,117
164— 124: 1,338,969
168— 26: 1,338,986
169— 2: 1,338,778
32: 1,338,828
170— 103: 1,338,890
117: 1,339,012
171: 1,338,874
171— 119: 1,338,718
172— 239: 1,339,312
174— 177: 1,338,812
175— 294: 1,339,192
360: 1,339,100
361: 1,338,884
176— 31: 1,339,351
32: 1,339,333
119: 1,339,111
179— 18: 1,339,175
27: 1,339,010
27.5: 1,339,001
101: 1,338,888
180— 9: 1,338,777
12: 1,338,707
13: 1,338,837
14: 1,338,919
17: 1,338,754
1,338,835
27: 1,338,680
50: 1,339,124
69: 1,339,269
73: 1,339,271
81: 1,339,125
89: 1,339,325
184— 70: 1,338,914
187— 35: R. 14,853
61: 1,338,867
189— 34: 1,339,253
46: 1,339,205
190— 11: 1,339,028
191— 95: 1,339,221
192— 7: 1,338,788
10: 1,339,047
11: 1,338,891
193— 8: 1,339,089
13: 1,339,060
14: 1,338,727
1,339,206
29: 1,339,338
31: R. 14,854
R. 14,855
1,338,975
1,338,976
195— 1: 1,338,803
197— 5: 1,339,078
9: 1,339,346
10: 1,339,369
151: 1,338,699
200— 3: 1,338,825
24: 1,338,989
30: 1,338,971
41: 1,339,236
43: 1,339,302
44: 1,339,008
67: 1,339,306

200— 73: 1,339,171
82: 1,338,896
84: 1,339,239
203— 6: 1,338,667
1,339,022
204— 29: 1,338,690
1,339,061
31: 1,339,225
64: 1,338,734
1,338,881
1,339,344
206— 6: 1,339,330
33: 1,338,692
210— 16: 1,339,195
127: 1,339,045
156: 1,339,037
199: 1,338,999
211— 7: 1,339,140
8: 1,339,053
1,339,067
16: 1,339,291
24: 1,339,194
37: 1,339,255
212— 44: 1,339,263
54: 1,338,726
1,339,072
213— 10: 1,339,030
42: 1,339,020
45: 1,339,016
64: 1,338,893
214— 3: 1,339,082
18: 1,339,081
49: 1,338,798
75: 1,339,290
130: 1,339,138
215— 9: 1,338,847
1,339,370
10: 1,339,066
216— 2: 1,338,978
54: 1,338,793
217— 3: 1,339,328
12: 1,339,021
218— 12: 1,339,324
219— 4: 1,338,762
35: 1,338,952
39: 1,338,997
49: 1,338,998
64: 1,338,717
220— 24: 1,339,340
46: 1,338,688
221— 11: 1,339,245
67: 1,338,878
78: 1,339,237
79: 1,338,743
80: 1,338,814
223— 31: 1,339,305
224— 23: 1,338,776
1,338,794
1,338,795
1,338,797
229— 6: 1,338,744
16: 1,339,334
40: 1,339,339
41: 1,338,664
230— 1: 1,339,131
7: 1,338,810
1,339,169
27: 1,338,711
230— 30: 1,338,839
233— 32: 1,339,211
234— 11: 1,338,715
235— 2: 1,338,903
3: 1,338,876
25: 1,339,272
236— 14: 1,338,900
1,338,901
1,338,902
1,338,923
1,338,926
1,338,927
1,338,928
1,339,055
15: 1,338,899
25: 1,338,929
33: 1,339,368
40: 1,339,057
44: 1,338,916
237— 3: 1,339,264
9: 1,338,961
238— 5: 1,339,356
7: 1,339,046
30: 1,339,301
286: 1,339,345
321: 1,339,123
240— 1: 1,339,085
3: 1,339,304
15: 1,338,954
29: 1,338,769
32: 1,338,911
48.4: 1,338,675
1,338,824
61: 1,339,352
240— 62: 1,338,787
111: 1,338,958
241— 5: 1,338,858
8: 1,338,859
19: 1,338,850
244— 1: 1,338,724
1,339,151
1,339,188
12: 1,339,336
21: 1,339,227
29: 1,339,332
31: 1,338,836
246— 186: 1,339,136
276: 1,338,786
248— 20: 1,339,018
1,339,163
1,339,288
30: 1,338,766
41: 1,338,781
250— 19: 1,339,191
27: 1,338,880
32: 1,338,756
39: 1,338,984
251— 6: 1,338,912
18: 1,338,705
108: 1,339,284
125: 1,339,128
127: 1,339,101
156: 1,338,994
162: 1,338,838
253— 17: 1,339,183
94: 1,338,708
254— 30: 1,339,024
89: 1,339,186
254— 95: 1,338,682
111: 1,339,377
255— 19: 1,338,948
257— 16: 1,339,122
130: 1,338,753
240: 1,338,848
258— 1: 1,338,970
259— 96: 1,338,996
109: 1,339,056
261— 40: 1,338,960
41: 1,339,214
48: 1,339,218
66: 1,339,095
83: 1,339,303
108: 1,339,105
111: 1,339,112
262— 3: 1,339,036
263— 1: 1,339,190
23: 1,339,252
265— 62: 1,339,326
266— 5: 1,339,034
267— 28: 1,338,673
1,338,854
268— 9: 1,338,755
18: 1,338,671
274— 5: 1,338,719
15: 1,339,199
27: 1,338,950
35: 1,339,337
275— 1: 1,339,256
276— 1: 1,338,964
279— 62: 1,338,775
280— 33.2: 1,339,335
33.7: 1,339,048
280— 49: 1,339,109
94: 1,339,294
112: 1,338,895
158: 1,338,714
283— 12: 1,339,331
23: 1,338,770
284— 6: 1,339,042
285— 25: 1,338,972
143: 1,339,141
286— 7: 1,338,955
14: 1,339,156
24: 1,339,297
287— 118: 1,338,746
290— 31: 1,338,857
35: 1,338,987
46: 1,339,258
292— 15: 1,339,178
39: 1,338,689
160: 1,339,320
241: 1,339,362
247: 1,339,174
335: 1,338,713
342: 1,338,792
293— 55: 1,339,167
296— 145: 1,339,170
298— 22: 1,339,079
299— 12: 1,339,159
1,339,322
18: 1,339,349
73: 1,339,005
304— 36: 1,339,025

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adler, Herman, New York, N. Y. Feeding device for producing spiral switches. No. 1,340,099; May 11; v. 274; p. 347.

Air Production Company. (See Kaufman, Alfonse, assignor.)

Airhart, Lewis, West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Electrical switch. No. 1,339,911; May 11; v. 274; p. 312.

Africa, Elmer M., assignor to J. C. Blair Company, Huntingdon, Pa. Guide-line sheet. No. 1,340,100; May 11; v. 274; p. 347.

Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co. (See Guyer, Hans, assignor.)

Albersworth, Henry J. (See Powell, E. L., and Albersworth.)

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Method of and means for controlling electrical energy. No. 1,340,101; May 11; v. 274; p. 348.

Allen, Charles, El Paso, Tex. Settling-basin separating device. No. 1,339,682; May 11; v. 274; p. 269.

Allen, Charles, El Paso, Tex. Upward-current separating process and device. No. 1,339,683; May 11; v. 274; p. 269.

Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,339,684; May 11; v. 274; p. 269.

Allen, Charles H., Pittsburgh, and J. L. Morris, Crafton, Pa. Electrically-operated releasing device for weighing-machines. No. 1,339,539; May 11; v. 274; p. 241.

Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,339,732; May 11; v. 274; p. 278.

Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,339,733; May 11; v. 274; p. 278.

Alphaero Engines (Foreign Patents). (See Houston, Percival T., assignor.)

Alter, John H., Conneaut, Ohio. Power-operated reversing-gear. No. 1,339,939; May 11; v. 274; p. 317.

Alva Carpet & Rug Company. (See Fromuth, August G., assignor.)

Ambler, Sam, Bradford, England. Doffing mechanism for spinning-frames. No. 1,339,803; May 11; v. 274; p. 291.

Ambursen, Nils F., Pittsburgh, Pa., assignor to Unl-Form Company. Mold-panel. No. 1,339,912; May 11; v. 274; p. 312.

American Balsa Company. (See Welin, Axel, assignor.)

American Brake Company. (See Burton, Thomas L., assignor.)

American Chain Company. (See Pye, Robert E., assignor.)

American Chain Company. (See Reyburn, John R., assignor.)

American Cotton Oil Company, The. (See Boyce, James, assignor.)

American Flange Frog and Railway Improvement Company, The. (See Einstein, Robert E., assignor.)

American Steel Foundries. (See Peycke, Armand H., assignor.)

American Stove Company. (See Meacham, Benjamin E., assignor.)

American Type Founders Company. (See Kelly, William M., assignor.)

Anderson, Carl E., assignor to The Bryant Electric Company, Bridgeport, Conn. Spring-operated mechanism. No. 1,340,000; May 11; v. 274; p. 329.

Anderson, James L. (See Cave, H., and Anderson.)

Andresen, Herman P., Chicago, Ill. Combination heater and maintenance-wagon. No. 1,340,131; May 11; v. 274; p. 354.

Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Shoe-machine. No. 1,339,591; May 11; v. 274; p. 251.

Axberg, Alfred C., Springvale, Me. Receptacle-support. No. 1,339,491; May 11; v. 274; p. 232.

Arndt, Richard L. (See Porter, J. W., and Arndt.)

Arnesen, Bernhardt M., *et al.* (See Maltz, Mayer, assignor.)

Art Metal Construction Company. (See Fosberg, Henry C., assignor.)

Associated Manufacturers Company. (See Kimball, Earl H., assignor.)

Avram, Mois H., New York, N. Y., assignor to Slocum Laboratories, Inc., Newark, N. J. Efficiency-recorder. No. 1,339,381; May 11; v. 274; p. 211.

Ayres, George W., Pungoteague, Va. Vine-lifter. No. 1,339,840; May 11; v. 274; p. 299.

Ayres, Seymour A., East Lansing, Mich. Adjustable journal-box. No. 1,340,102; May 11; v. 274; p. 348.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Company, New York, N. Y. Compression, storage, &c., of ethylene. No. 1,339,431; May 11; v. 274; p. 220.

Bahan, William H., Jr., Union, S. C. Stop mechanism for looms. No. 1,339,841; May 11; v. 274; p. 299.

Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Core for tire-casings. No. 1,339,875; May 11; v. 274; p. 305.

Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Resilient core for tire-casings. No. 1,339,876; May 11; v. 274; p. 305.

Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles of the lighter class. No. 1,339,913; May 11; v. 274; p. 312.

Baker, Eugene L., Taunton, Mass. Molding device. No. 1,339,642; May 11; v. 274; p. 261.

Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)

Baldwin, Francis J., Canton, Ohio. Arbor. No. 1,339,877; May 11; v. 274; p. 306.

Ball, Arlington L., Dunkirk, N. Y., assignor, by mesne assignments, to Germer Stove Company, Erie, Pa. Liquid-feed device. No. 1,339,734; May 11; v. 274; p. 279.

Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Spark-coil-testing apparatus. No. 1,339,804; May 11; v. 274; p. 292.

Baltimore Process Company. (See Straus, Alexander L., assignor.)

Baltzley, Owen F. (See Grimes E. O., Jr., and Baltzley.)

Barber, Herman, Elwood, Ind. Spraying apparatus. No. 1,339,382; May 11; v. 274; p. 211.

Barber-Colman Company. (See Hathaway, E. F., and Lea, assignors.)

Barchard, Emma C., Chicago, Ill. Oiler for air-compressors. No. 1,339,540. May 11; v. 274; p. 241.

Barnes, John S., Detroit, Mich. Wire fabric. No. 1,339,541; May 11; v. 274; p. 242.

Barr and Stroud. (See Barr, A., and Stroud, assignors.)

Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Apparatus for the conversion of motion of one type into motion of another type. No. 1,339,643; May 11; v. 274; p. 261.

Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Bomb-dropping device. No. 1,339,432; May 11; v. 274; p. 220.

Barrett, Thomas A., Englewood, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Starting means for electric apparatus. No. 1,339,914; May 11; v. 274; p. 313.

Bartlett, Madeline A., Boston, Mass. Game. No. 1,340,001; May 11; v. 274; p. 329.

Bateman, William M., Chester, Pa. Anchor shanks and shackles. No. 1,340,002; May 11; v. 274; p. 329.

Bauer, Carl E., Hammond, Ind. Draw-bar yoke. No. 1,339,940; May 11; v. 274; p. 318.

Baukus, Frank J., Saginaw, Mich. Roller fly-screen. No. 1,340,103; May 11; v. 274; p. 348.

Beard, James R. (See Hunter, P. V., and Beard.)

Beardsley, Charles S., assignor to The United Electric Company, Canton, Ohio. Adjustable caster. No. 1,339,805; May 11; v. 274; p. 292.

Beeby, Alfred R. (See Milner, H. L., and Beeby.)

Beese, Frank F., Chicago, Ill. Water-gage safety-valve. No. 1,339,383; May 11; v. 274; p. 211.

Belcher & Taylor Agricultural Tool Company, The. (See Butterfield, Lewis A., assignor.)

Belden, Edward H., assignor to Packard Motor Car Company, Detroit, Mich. Door-latching means. No. 1,339,492; May 11; v. 274; p. 232.

Bellairs, John W., Mishawaka, Ind. Rocking-horse. No. 1,339,493; May 11; v. 274; p. 232.

Benjamin, Philip, New York, and S. Burger, Brooklyn, N. Y. Watch. No. 1,340,003; May 11; v. 274; p. 329.

Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,339,735; May 11; v. 274; p. 279.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,004; May 11; v. 274; p. 329.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,005; May 11; v. 274; p. 330.

Bergmann, Conrad, Philadelphia, Pa. Cabinet. No. 1,339,842; May 11; v. 274; p. 299.

Berman, Louis C. (See Santino, Salvatore, assignor.)

Berthelot, Charles, Paris, France. Oven with regenerators. No. 1,340,104; May 11; v. 274; p. 348.

Bettger, Christian, Bremen, N. D. Clevis. No. 1,340,105; May 11; v. 274; p. 348.

Bigelow, George W., New Haven, Conn. Damper-regulator. No. 1,340,106; May 11; v. 274; p. 349.

Birth, Charles, Kingston borough, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,339,542; May 11; v. 274; p. 242.

Bishop, Harry, Lyons, N. Y. Spring-gripping device. No. 1,339,843; May 11; v. 274; p. 299.

Bishopric, George F., Wyoming, Ohio. Wall-covering. No. 1,339,915; May 11; v. 274; p. 313.

Blache, François M. P., La Rieamarie, France. Cock. No. 1,340,107; May 11; v. 274; p. 349.

Blair, Albert, *et al.* (See Ehrlich, Leo, assignor.)

Blair, David E., and D. K. Macleod, Montreal, Quebec, Canada. Signal. No. 1,339,685; May 11, v. 274; p. 270.

Blair, J. C., Company. (See Africa, Elmer M., assignor.)

Blake, Charles C., Brookline, Mass. Edge-trimming machine. No. 1,339,878; May 11; v. 274; p. 306.

Blasco, Walter, Erie, Pa. Portable stand. No. 1,340,108; May 11; v. 274; p. 349.

Blyth, James. (See Nettle, W. E., Selby, Blyth, and Holman.)

Bodin, Emil P., New York, N. Y. Toy. No. 1,340,109; May 11; v. 274; p. 349.

Boe, Hans M., Minneapolis, Minn. Grease-gun. No. 1,339,916; May 11; v. 274; p. 313.

Bolger, Robert S., New York, assignor of one-half to G. F. Whistler, Brooklyn, N. Y. Manufacturing paper barrels. No. 1,340,110; May 11; v. 274; p. 350.

Bonall, Frank, Clifton, N. J., assignor to C. De Felice, New York, N. Y. Anti-aircraft guns. No. 1,340,111; May 11; v. 274; p. 350.

Bond, Ignatius, Evanston, Ill. Controlling mechanism for electric motors for ironing-machines. No. 1,339,917; May 11; v. 274; p. 313.

Booth, William C., Chicago, Ill. Shower-bath apparatus. No. 1,339,593; May 11; v. 274; p. 252.

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borresen, Helge A., Marquette, Mich., assignor of one-half to E. R. Hills, Chicago, Ill. Watch-barrel. No. 1,339,941; May 11; v. 274; p. 318.

Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,339,592; May 11; v. 274; p. 251.

Botscheider, George F., San Francisco, Calif. Automatic locking device for pneumatic-tube systems. No. 1,339,594; May 11; v. 274; p. 252.

Boulais, Wilfrid, Ipswich, Mass. Tractor. No. 1,340,112; May 11; v. 274; p. 350.

Bouma, Louis C., Lynnville, Iowa. Sanitary nest-egg. No. 1,339,543; May 11; v. 274; p. 242.

Boyce, James, Chicago, Ill., assignor to The American Cotton Oil Company, Guttenberg, N. J. Manufacture of catalysts. No. 1,339,686; May 11; v. 274; p. 270.

Brackett, Edward B., Lufkin, Tex. Engine-fan-belt guard. No. 1,340,113; May 11; v. 274; p. 350.

Brandt, Charles D., New York, assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump-stirrup. No. 1,339,943; May 11; v. 274; p. 318.

Brandt, Matthew A., asignor to J. G. Eddy, Minneapolis, Minn. Combined letter-sheet and envelop. No. 1,340,114; May 11; v. 274; p. 351.

Branson, Edward H., Pittsfield, Mass., assignor to General Electric Company. Universal die. No. 1,340,006; May 11; v. 274; p. 330.

Branson, Horace M., Knoxville, Tenn. Blank form. No. 1,339,942; May 11; v. 274; p. 318.

Breining, Clayton P., Mill Hall, Pa. Fountain-toothbrush. No. 1,340,115; May 11; v. 274; p. 351.

Brewer, Charles A., assignor to Charles A. Brewer & Sons, Chicago, Ill. Board-filling machine. No. 1,339,595; May 11; v. 274; p. 252.

Brewer, Charles A., & Sons. (See Brewer, Charles A., assignor.)

Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)

Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., as signors to The New Jersey Zinc Company, New York, N. Y. Treating zinc oxid. No. 1,339,544; May 11; v. 274; p. 242.

Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to New Jersey Zinc Company, New York, N. Y. Treating zinc oxid. No. 1,339,545; May 11; v. 274; p. 242.

Bridgers, John E. (See Smith, Henry, assignor.)

Briggs, Alfred A., New York, N. Y. Portable excavator. No. 1,339,687; May 11; v. 274; p. 270.

Briggs and Stratton Company. (See Smith, Reuben S., assignor.)

Brooklus, Andrew J., Chicago, Ill. Automatic train-control apparatus. No. 1,339,918; May 11; v. 274; p. 313.

Brooks, James, Mount Vernon, assignor to Matthew Hawe, Pelham Manor, N. Y. Spark-plug. No. 1,340,116; May 11; v. 274; p. 351.

Brown, Charles A., *et al.* (See Wood, Albert B., assignor.)

Brown, John C., Niagara Falls, Ontario, Canada. Manually-propelled toy car. No. 1,339,433; May 11; v. 274; p. 221.

Brown, William H., Cleveland, O., assignor to G. L. Woodard, San Diego, Calif. Spring-oiler. No. 1,339,546; May 11; v. 274; p. 243.

Bruger, Louise, Jersey City, N. J. Open-mesh joint in textile and other fabrics and making same. No. 1,340,117; May 11; v. 274; p. 351.

Brumfield, W. H., *et al.* (See Strickland, Dewitt W., assignor.)

Bryant Electric Company, The. (See Anderson, Carl E., assignor.)

Bukola, Joseph. (See Ustrzycki, S., and Bukola.)

Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipe-supporting means. No. 1,339,547; May 11; v. 274; p. 243.

Bunce, Earl H. (See Breyer, F. G., and Bunce.)

Burchett, Walter J., East Orange, assignor to Slocum, Avram & Slocum Laboratories, Inc, Newark, N. J. Electromechanical switch. No. 1,339,844; May 11; v. 274; p. 299.

Burchett, Walter J., East Orange, assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J. Electromechanical switch. No. 1,339,845; May 11; v. 274; p. 299.

Burdick, Charles L., Sheffield, Ala. Process of and apparatus for treating gas mixtures containing oxids of nitrogen. No. 1,339,494; May 11; v. 274; p. 232.

Burger, Samuel. (See Benjamin, P., and Burger.)

Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)

Burgess, Henry. (See Stevenson, C. V., and Burgess.)

Burke, Wilbur B., Cleveland, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio. Apparatus for vulcanizing rubber and making same. No. 1,339,736; May 11; v. 274; p. 279.

Burnham, Donald C. (See Porter, Robert S., assignor.)

Burridge, Francis O., executor. (See Burridge, Lee S.)

Burridge, Lee S., deceased; F. O. Burridge executor, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,339,806; May 11; v. 274; p. 292.

Burrowes, Edward T. *et al.* (See Davis, G. H., and Griffin, assignors.)

Butler, Glenn, *et al.* (See Otto, A. and W., assignors.)

Burton, Thomas L., assignor to American Brake Company, St. Louis, Mo. Metal brake-beam. No. 1,340,007; May 11; v. 274; p. 330.

Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,008; May 11; v. 274; p. 330.

Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,009; May 11; v. 274; p. 330.

Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,010; May 11; v. 274; p. 330.

Butler, James A., Needham, Mass. Trimming-machine. No. 1,339,807; May 11; v. 274; p. 292.

Butterfield, Lewis A., assignor to the Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass. Snapping-rolls for corn-husking machines. No. 1,339,737; May 11; v. 274; p. 279.

Butterworth, H. W., & Sons Company. (See Hunter, Rudolph M., assignor.)

Callahan, John W. and M. B., El Paso, Tex. Sanitary cover-pad for mattresses. No. 1,339,738; May 11; v. 274; p. 279.

Callahan, Maud B. (See Callahan, John W. and M. B.)

Callely, Thomas F. (See Seeley, Leonard E., assignor.)

Canale, Mario A., and R. Frias, Buenos Aires, Argentina: Apparatus for utilizing the trepidations of vehicles. No. 1,340,013; May 11; v. 274; p. 331.

Cant, Alfred. (See Hall, Nelson, assignor.)

Carver, James H., Schenectady, N. Y., assignor to General Electric Company. Gear, roll, and the like. No. 1,340,011; May 11; v. 274; p. 331.

Casale Safety Device Company. (See Shaver, Archibald G., assignor.)

Caskey, Samuel S., Philadelphia, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spark-arrester. No. 1,339,495; May 11; v. 274; p. 233.

Cave, Henry, Elizabeth, and J. L. Anderson, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y. Flame-projector apparatus. No. 1,340,012. May 11; v. 274; p. 331.

Chamberlain, Alice R. (See Chamberlain, Parker G., assignor.)

Chamberlain, Parker G., assignor of half to A. R. Chamberlain, Spokane, Wash. Linear counter-rule. No. 1,339,644; May 11; v. 274; p. 262.

Chambeflin, Albert V., Coeur d'Alene, Idaho. Coin-wrapping machine. No. 1,339,808; May 11; v. 274; p. 293.

Chambers, Percy H., *et al.*, executors. (See Tyrer, Thomas.)

Charles, Roy B. (See Park, Jay M., assignor.)

Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-box. No. 1,339,809; May 11; v. 274; p. 293.

Cheney Talking Machine Company. (See Cheney, Forest, assignor.)

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,496; May 11; v. 274; p. 233.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,497; May 11; v. 274; p. 233.

Cima, Valentine, Chicago, Ill. Window-sash operator. No. 1,339,879; May 11; v. 274; p. 306.

Cing-Mars, Legendre, San Francisco, Calif. Gas-radiator. No. 1,339,944; May 11; v. 274; p. 318.

Claflin, Albert B., Toledo, Oreg. Clothes-hook. No. 1,340,014; May 11; v. 274; p. 331.

Claflin, Albert B., Toledo, Oreg. Hammock or bed construction. No. 1,340,015; May 11; v. 274; p. 331.

Clarinda Lawn Mower Company. (See Toll, Herman H., assignor.)

Clark, L. A. (See Floyd, Charles W., assignor.)

Clarke, John A., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,339,945; May 11; v. 274; p. 319.

Cleveland Worm & Gear Company, The. (See Fitzpatrick, David, assignor.)

Cobb, Julia L., executrix. (See Cobb, Leander B.)

Cobb, Leander B., deceased, Julia L. Cobb, executrix, Portland, Me., assignor of one-half to W. B. Cobb, Cleveland, Ohio. Shaft-alining device. No. 1,339,919; May 11; v. 274; p. 313.

Cobb, William B. (See Cobb, Leander B., assignor.)

Cochran, Smith H., Chicago, Ill. Dish-washing machine. No. 1,339,810; May 11; v. 274; p. 293.

Cochrane, Thomas H., Jersey City, N. J. Locomotive-crane sander. No. 1,340,016; May 11; v. 274; p. 331.

Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Machine for assembling radiator-cores. No. 1,339,434; May 11; v. 274; p. 221.

Cole, Elisha W., Charlotte, N. C. Planter. No. 1,339,688; May 11; v. 274; p. 270.

Coleman Boiler Appliance Company, The. (See Coleman, Charles S., assignor.)

Coleman, Charles S., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. Boiler-tube end section. No. 1,339,739; May 11; v. 274; p. 279.

Coleman, Charles S., Los Angeles, Calif., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. Safe end flue. No. 1,339,740; May 11; v. 274; p. 279.

Coleman, Charles S., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. Boiler-tube and end-plate connection. No. 1,340,118; May 11; v. 274; p. 351.

Collignon, William C., Chicago, Ill. Pneumatic action for musical instruments. No. 1,340,017; May 11; v. 274; p. 332.

Collins, Edgar V., and F. T., Ames, Iowa. Clutch and fuel-supply control mechanism. No. 1,339,435; May 11; v. 274; p. 221.

Collins, Fred T. (See Collins, Edgar V. and F. T.)

Colmus, Frank J., Baltimore, Md. Hitch-pin for pianos and other string instruments. No. 1,339,689; May 11; v. 274; p. 270.

Columbian Bronze Corporation. (See Hull, Louis J., assignor.)

Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)

Connable, Frank L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spark-arresting device. No. 1,339,498; May 11; v. 274; p. 233.

Connor, Charles F., Marlboro, Mass. Cutting-block. No. 1,340,018; May 11; v. 274; p. 332.

Conrad, Albert L., Pasadena, Calif. Rake. No. 1,339,436; May 11; v. 274; p. 221.

Contal, Camille, St. Cloud, and E. Requillart, Paris, France. Expression mechanism for mechanical pianos. No. 1,340,019; May 11; v. 274; p. 332.

Cooper, Charles W. (See Morris, Pratt C., assignor.)

Cooper, Clarence S., Hondo, Calif. Sanitary mattress. No. 1,339,880; May 11; v. 274; p. 306.

Cooper Hewitt Electric Company. (See Barrett, Thomas A., assignor.)

Corcoran, Margaret J., Scranton, Pa. Egg-washer. No. 1,340,020; May 11; v. 274; p. 332.

Corey, James A., London, England. Intaglio printing-plate. No. 1,339,741; May 11; v. 274; p. 280.

Corrall, Herbert, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company. Hemming and trimming attachment for sewing-machines. No. 1,339,742; May 11; v. 274; p. 280.

Cortese, Emilio M. Crespi, and A. Squassi, Milan, Italy. Rotary pulverizer. No. 1,339,499; May 11; v. 274; p. 234.

Cox, Ralph C., Waumeta, Nebr. Road-grader. No. 1,339,548; May 11; v. 274; p. 243.

Coxe Traveling Grate Company. (See Wallen, Earl S., assignor.)

Crawford, Walter. (See Johnson, Charles, assignor.)

Crespi, Mario. (See Cortese, E., Crespi, and Squassi.)

Cress, Isaac N., Wakeeney, Kans. Truss. No. 1,339,946; May 11; v. 274; p. 319.

Criqui, Charles A., and E. T. Larkin, Buffalo, N. Y.; said Larkin assignor to said Criqui. Pump. No. 1,339,500; May 11; v. 274; p. 234.

Cross, Andrew J., New York, N. Y. Ophthalmic-lens blank. No. 1,340,021; May 11; v. 274; p. 332.

Curme, Henry R., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Making ethyl sulfates. No. 1,339,947; May 11; v. 274; p. 319.

Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)

Cuttrell, William H. (See Rothwell, R., and Cuttrell.)

Czarnecki, Wladyslaw. (See Murphy, T. W., and Czarnecki.)

Dallas, William, Philadelphia, Pa. Cutter-clearance gage. No. 1,340,022; May 11; v. 274; p. 333.

Danielson, Edward. (See Forsman, V., and Danielson, assignor.)

Davey, Leigh H., Jersey City, N. J. Heads for barrels and other similar receptacles. No. 1,340,023; May 11; v. 274; p. 333.

Davies, Laurence, New Malden, England. Water-waste preventer. No. 1,339,690; May 11; v. 274; p. 271.

Davis, Donald C., Depew, assignor to Gould Coupler Co., New York, N. Y. Buffer for railway rolling-stock. No. 1,339,743; May 11; v. 274; p. 280.

Davis, George H. Portland, Me., and W. G. Griffin, Washington, D. C., assignors of one half to said Davis and one-half to E. T. Burrowes, Portland, Me. Auxiliary tractor for motor-vehicles. No. 1,340,024; May 11; v. 274; p. 333.

Davis, Noah W., assignor of one-half to E. M. Markel, Des Moines, Iowa. Burial-vault. No. 1,339,920; May 11; v. 274; p. 314.

Davis-Bournonville Company. (See Cave, H., and Anderson, assignors.)

De Barros, Jose, Imperial, Calif. Nut-marking machine. No. 1,339,881; May 11; v. 274; p. 306.

Decuir, Joseph O. (See Runyam, Benjamin F., assignor.)

De Felice, Carlo. (See Bonali, Frank, assignor.)

Deneau, William M., assignor of one-half to H. Paschen, Chicago, Ill. Life-preserver. No. 1,339,617; May 11; v. 274; p. 256.

De Normanville, Samuel A., Ealing, and L. H. Kent, Stanmore, England. Visual weather-screen. No. 1,340,025; May 11; v. 274; p. 333.

Depatie, Theophile, Montreal, Quebec, Canada. Building construction. No. 1,339,596; May 11; v. 274; p. 252.

Derr, Charles E., Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting machine. No. 1,339,921; May 11; v. 274; p. 314.

Desert Fibre Company. (See Holdaway, Hall H., assignor.)

Detroit Stove Works. (See Mersfelder, William L., assignor.)

Detroit Stove Works. (See Schall, Henry D., assignor.)

Deutsch, Isidor, Avalon, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switch for electric circuits. No. 1,339,922; May 11; v. 274; p. 314.

De Witt, W. J., *et al.* (See Lionne, Ernest, assignor.)

Diamant, Sidney, New York, N. Y. Adenotome. No. 1,339,691; May 11; v. 274; p. 271.

Diamant, Sidney, New York, N. Y. Adenotome. No. 1,339,692; May 11; v. 274; p. 271.

Diamond Match Company, The. (See Pfersch, Clarence L., assignor.)

Dianiska, John, Dayton, Ohio, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Sewing-machine cabinet. No. 1,339,501; May 11; v. 274; p. 234.

Dickelman, Lizzie H., Forest, Ohio. Grain-storage bin. No. 1,339,437; May 11; v. 274; p. 221.

Dirienzo, John A. (See Dirienzo, Joseph M. and J. A.)

Dirienzo, Joseph M. and J. A., Madison, Wis. Inner tube. No. 1,339,948; May 11; v. 274; p. 319.

Diskin, Moses B., New York, N. Y. Article-register. No. 1,339,744; May 11; v. 274; p. 280.

Dink, Phillip, St. Paul, Minn. Shoe-heel. No. 1,339,438; May 11; v. 274; p. 222.

Dixon, Henry C., Tulsa, Okla. Tailor's order-blank. No. 1,339,693; May 11; v. 274; p. 271.

Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,549; May 11; v. 274; p. 243.

Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,550; May 11; v. 274; p. 243.

Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,551; May 11; v. 274; p. 244.

Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Valve-regulating means. No. 1,339,811; May 11; v. 274; p. 293.

Doughty, Edgar S., Red Wing, Minn. Amusement apparatus. No. 1,339,502; May 11; v. 274; p. 234.

Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)

Douglas, Harry A., Bronson, Mich. Electrical conductor. No. 1,339,694; May 11; v. 274; p. 271.

Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Reflecting-lamp. No. 1,339,695; May 11; v. 274; p. 271.

Douglass, Harry B., Detroit, Mich. Gage. No. 1,339,384; May 11; v. 274; p. 211.

Dove, Alice B. (See Greenwood, Oliver P., assignor.)

Dow Chemical Company, The. (See Dow, Herbert H., assignor.)

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Plastic composition. No. 1,339,552; May 11; v. 274; p. 244.

Downey, Richard F., Milwaukee, assignor of one-half to H. Schreier, Sheboygan, Wis. Ball game. No. 1,339,846; May 11; v. 274; p. 300.

Downing, Virgil L., assignor to Winther Motor Truck Company, Kenosha, Wis. Wheel. No. 1,339,439; May 11; v. 274; p. 222.

Doyle, William J., and J. J. Wollenhaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Hot-air furnace. No. 1,340,134; May 11; v. 274; p. 355.

Drange, Carl E. (See Scott, D. J., and Drange.)

Dresch, Israel J., Toledo, Ohio. Dental-plate attachment. No. 1,339,812; May 11; v. 274; p. 293.

Drews, Frank, Willmar, Minn. Manually-operated rotary device. No. 1,340,026; May 11; v. 274; p. 333.

Duff, Frank C. (See Toll, H. H., and Duff.)

Duffy, Clarence O., Dallas, Tex. Producing tire-patch material. No. 1,339,696; May 11; v. 274; p. 272.

Dunaway, William S., Carmel, Calif. Combination-brush. No. 1,339,745; May 11; v. 274; p. 280.

Dunbar, Howard W., A. Turner, and G. H. Smith, assignors, by mesne assignments, to Norton Company, Worcester, Mass. Cam-grinding apparatus. No. 1,339,746; May 11; v. 274; p. 281.

Dunbar, Leon W., Worcester, Mass. Electromagnetic chuck. No. 1,339,553; May 11; v. 274; p. 244.

Dunham, Charles W., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electroconducting-coil. No. 1,340,027; May 11; v. 274; p. 334.

Dunn, Frank P., Anderson, Ind., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,339,440; May 11; v. 274; p. 222.

Du Pont, E. I., de Nemours and Company. (See Caskey, Samuel S., assignor.)

Du Pont, E. I., de Nemours and Company. (See Connable, Frank L., assignor.)

Durable Box Co. (See Kenniker, N. O., and Fritze, assignors.)

Duresen, Andrew, Minneapolis, Minn. Two-wheeled motor-vehicle. No. 1,339,554; May 11; v. 274; p. 244.

Dutton, Frederick O. (See Lewis, A. A., and Dutton.)

Dwyer, Joseph, Hamilton, Ontario, Canada. Miter-cutting device. No. 1,339,747; May 11; v. 274; p. 281.

Dyckman, Stephen W., New York, N. Y. Radiator. No. 1,339,813; May 11; v. 274; p. 293.

Dyer, John B. (See Hill, Hugh, assignor.)

Eagar, George, Dunboyne, Ontario, Canada. Gas-saver. No. 1,339,441; May 11; v. 274; p. 222.

Earl, Charles M., Detroit, Mich. Sealing-valve for carbonated-beverage containers. No. 1,339,555; May 11; v. 274; p. 244.

Earl, Geo. G., *et al.* (See Wood, Albert B., assignor.)

Eastwood, Benjamin, Company. (See Zeedyk, William, assignor.)

Eddy, J. G. (See Brandt, Matthew A., assignor.)

Een, John, Amherst, Wis. Poison-distributer. No. 1,339,556; May 11; v. 274; p. 244.

Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone sets. No. 1,339,814; May 11; v. 274; p. 294.

Egts, Louie M., Atlanta, Ga. Pistol. No. 1,339,949; May 11; v. 274; p. 319.

Ehrlich, Leo, assignor of one-half to A. S. Partridge and one-half to A. Blair, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,339,748; May 11; v. 274; p. 281.

Elchhorn, Jacob C., Detroit, Mich. Storage-battery cell. No. 1,339,442; May 11; v. 274; p. 223.

Elnstein, Robert E., St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla. Flange-frog. No. 1,339,597; May 11; v. 274; p. 253.

Einstein, Robert E., St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla. Cast-metal flange-frog. No. 1,339,598; May 11; v. 274; p. 253.

Electric Vulcanizing Rubber Company, The. (See Burke, Wilbur R., assignor.)

Electrical Engineers Equipment Company. (See Getts, Frank E., assignor.)

Elrod, Benjamin S., Omaha, Nebr. Pin-dispenser. No. 1,339,503; May 11; v. 274; p. 234.

England, Henry, Chicago, Ill. Fishing-tackle. No. 1,339,697; May 11; v. 274; p. 272.

Enterprise Manufacturing Company, The. (See Pflueger, Ernest A. and C. T., assignors.)

Eppler, Andrew, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,339,645; May 11; v. 274; p. 262.

Erickson, John E., St. Paul, Minn. Device for use in changing tires. No. 1,339,504; May 11; v. 274; p. 235.

Erwin, Jeremiah, Chicago, Ill. Fluid dispenser and spreader. No. 1,340,028; May 11; v. 274; p. 334.

Evans', John, Sons. (See Evans, William, assignor.)

Evans, William, Philadelphia, Pa., assignor to John Evans' Sons, Philadelphia, Pa. Machine for forming spring-eyes. No. 1,339,443; May 11; v. 274; p. 223.

Fachman, Oswald, Lindsey, Ohio. Wire-wrapping tool. No. 1,340,029; May 11; v. 274; p. 334.

Fahrenwald, Frank A., assignor to The Rhotanium Company, Cleveland, Ohio. Composition of matter for platinum substitute in electrical terminals and other uses. No. 1,339,505; May 11; v. 274; p. 235.

Faix, John and S., San Francisco, Calif. Combination-tool. No. 1,339,698; May 11; v. 274; p. 272.

Faix, Samuel. (See Faix, John and S.)

Fensey, George T., *et al.*, executors. (See Tyrer, Thomas.)

Feather, S., Company (See Hall, William R. D., assignor.)

Ferguson, Manton M., Des Moines, Iowa. Picture hanger and hook remover. No. 1,339,444; May 11; v. 274; p. 223.

Fessler, Frank, Des Moines, Iowa. Opera-chair. No. 1,339,445; May 11; v. 274; p. 223.

Fiddyment, John C., Akron, Ohio. Tire-core-sawing machine. No. 1,339,815; May 11; v. 274; p. 294.

Fiddyment, John C., Akron, Ohio. Machine for finishing tire-molds. No. 1,339,816; May 11; v. 274; p. 294.

Fidrocki, Antoni B., Lynn, Mass. Permutation-lock. No. 1,339,446; May 11; v. 274; p. 223.

Field, Edward A., Jr., Grand Rapids, Mich., assignor of one-half to E. A. Field, Sr., Chicago, Ill. Internal-combustion engine. No. 1,339,447; May 11; v. 274; p. 224.

Field, Edward A., Sr. (See Field, Edward A., Jr., assignor.)

Filbar Electric Heater, The. (See Smith, William H., assignor.)

Fitzpatrick, David, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Worm-grinding machine. No. 1,340,030; May 11; v. 274; p. 334.

Fitzpatrick, David, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Thread-grinder. No. 1,340,031; May 11; v. 274; p. 334.

Fleming, James R., Scranton, Pa. Axle reconstruction. No. 1,340,032; May 11; v. 274; p. 335.

Floyd, Charles W., Walnut Cove, N. C., assignor of one-fourth to L. A. Clark, Roanoke, Va. Collapsible hogshead or barrel. No. 1,339,749; May 11; v. 274; p. 281.

Foister, John L., assignor of one-half to W. S. Roberson, Chapel Hill, N. C. Valve. No. 1,339,750; May 11; v. 274; p. 282.

Fojtik, Peter, Fayetteville, Tex. Stovepipe-cap. No. 1,340,033; May 11; v. 274; p. 335.

Forsberg, Marcus. (See Forsberg, William, assignor.)

Forsberg, William, assignor of one-half to M. Forsberg, New York, N. Y. Motor control for sewing-machines. No. 1,339,817; May 11; v. 274; p. 294.

Forsman, Viktor and E. Danielson, Detroit, Mich. Bushing-holder. No. 1,339,448; May 11; v. 274; p. 224.

Forse, Lyndall, assignor of one-third to T. Thring and one-third to R. J. Luffman, Yeovil, Somerset, England. Manufacture of Mocha leather. No. 1,339,751; May 11; v. 274; p. 282.

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective means for distributing systems. No. 1,339,923; May 11; v. 274; p. 314.

Fosberg, Henry C., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y. File-box. No. 1,340,034; May 11; v. 274; p. 335.

Fosberg, Henry C., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y. File-box and follower. No. 1,340,035; May 11; v. 274; p. 335.

Foss, Ludvig T., Sandefjord, Norway. Motion-registering apparatus. No. 1,340,036; May 11; v. 274; p. 335.

Fosston, Axel A., assignor to Seal-Tite Piston Ring Company, Minneapolis, Minn. Making piston-rings. No. 1,340,037; May 11; v. 274; p. 335.

Fountain Toothbrushes Limited. (See Grace, Walter, assignor.)

Fowler, John T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizer. No. 1,339,950; May 11; v. 274; p. 319.

Fox, John H. (See Turnbull, C. W., and Fox.)

Franz, John W., assignor of one-half to C. A. Marien, St. Louis, Mo. Automobile-radiator. No. 1,339,752; May 11; v. 274; p. 282.

Frey, John C., Middletown, N. Y., assignor to Ideal Wrapping Machine Company, Conveyer-belt. No. 1,339,646; May 11; v. 274; p. 262.

Frias, Ricardo. (See Canale, M. A., and Frias.)

Frisbie, Ray A., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Adjustable lamp-support for motor-vehicles. No. 1,339,449; May 11; v. 274; p. 224.

Fritze, Ferdinand A., Jr. (See Kenniker, N. O., and Fritze.)

Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Pile fabric and yarn and making. No. 1,339,753; May 11; v. 274; p. 282.

Fuller, Alstyn. (See Gibson, B. and Fuller.)

Fuller, Charles H., assignor to Fuller Davit Company, Portland, Oreg. Boat-launching apparatus. No. 1,339,647; May 11; v. 274; p. 262.

Fuller Davit Company. (See Fuller, Charles H., assignor.)

Fuller, Lexie L., Pine Bluff, Ark. Time-controlled switch. No. 1,340,039; May 11; v. 274; p. 336.

Fulname Company, The. (See Lyon, Jesse D., assignor.)

Fulton Iron Works Company. (See Hurter, Henry, assignor.)

Gabriel, Antuony. (See Pogany, Alfred, assignor.)

Galopin, Henri, Melbourne, Victoria, Australia. Household-lamp. No. 1,339,699; May 11; v. 274; p. 272.

Gardner, Charles J., Santa Ana, Calif. Harvester. No. 1,339,924; May 11; v. 274; p. 314.

Garner, Herman H. (See Naftel, P. F., and Garner.)

Garren, George S., Oak Park, assignor to Sargent Company, Chicago, Ill. Gasket. No. 1,339,599; May 11; v. 274; p. 253.

Gasser, Joseph, Trenton, N. J. Brush. No. 1,340,040; May 11; v. 274; p. 336.

Gates, Charles C., assignor to The Gates Rubber Company, Denver, Colo. Pneumatic tire. No. 1,339,951; May 11; v. 274; p. 320.

Gates Rubber Company, The. (See Gates, Charles C., assignor.)

Gauslin, Anthony. (See White, W. M., and Gauslin.)

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Bergman, Sven R., assignor.)

General Electric Company. (See Branson, Edward H., assignor.)

General Electric Company. (See Carver, James H., assignor.)

General Electric Company. (See Lum, Walter O., assignor.)

General Electric Company. (See Macloskie, George, assignor.)

General Electric Company. (See Troy, Matthew O., assignor.)

General Electric Company. (See Winter, Fred H., assignor.)

General Electric Company. (See Wright, Daniel K., assignor.)

General Indurating Corporation. (See Lander, Wintworth V., assignor.)

General Motors Corporation. (See Frisbie, Ray A., assignor.)

General Motors Corporation. (See Stranahan, Samuel A., assignor.)

George, Eleanor V., New York, N. Y. Apparatus for cleaning phonograph-records. No. 1,339,700; May 11; v. 274; p. 272.

Gerli, Paul and O. A. Ross, New York, N. Y. Range-finding and sighting instrument. No. 1,339,450; May 11; v. 274; p. 224.

Germer Stove Company. (See Ball, Arlington L., assignor.)

Getts, Frank E., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Locking-switch. No. 1,339,506; May 11; v. 274; p. 235.

Ghijsen, Hulbert C., assignor to N. V. Vitrite Works, Middelburg, Netherlands. Manufacturing and adjustment of contact-plates in Swan-lamp bases. No. 1,340,041; May 11; v. 274; p. 336.

Gibson, Benjamin, and A. Fuller, Hill City, Kans. Silobrace. No. 1,339,701; May 11; v. 274; p. 273.

Gibson, Marshal D., Webster Groves, Mo. Washing-machine. No. 1,339,818; May 11; v. 274; p. 294.

Gilbert, William W. Santa Ana, Calif. Pattern for cutting half-soles. No. 1,339,702; May 11; v. 274; p. 273.

Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,340,135; May 11; v. 274; p. 355.

Gilmour, William H., St. Landry, La. Sawmill attachment. No. 1,340,042; May 11; v. 274; p. 336.

Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Pyrometer. No. 1,339,952; May 11; v. 274; p. 320.

Gleason, James E., trustee. (See Derr, Charles E., assignor.)

Goertz, August & Co. (See vom Elgen, Benno.)

Goff, Frank, Camden, N. J. Controller for electropneumatic brake apparatus. No. 1,339,754; May 11; v. 274; p. 282.

Goff, William F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Centering-ring for tire-beads. No. 1,339,451; May 11; v. 274; p. 224.

Gonzalez, Hugh F. (See Saltmarsh, T. W., and Gonzalez.)

Goodrich, B. F., Company, The. (See Goff, William F., assignor.)

Goodrich, B. F., Company, The. (See Pierce, Robert C., assignor.)

Gore, Frederick W., Huntington, N. Y. Ship's-hull construction. No. 1,339,755; May 11; v. 274; p. 283.

Gorham, Edwin T., assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Dressing-tool for grinding-wheels. No. 1,339,452; May 11; v. 274; p. 225.

Gould Coupler Co. (See Davis, Donald C., assignor.)

Grace, Walter, assignor to Fountain Toothbrushes Limited, Auckland, New Zealand. Fountain-brush. No. 1,340,043; May 11; v. 274; p. 337.

Graiver, Charles, New York, N. Y. String for musical instruments. No. 1,339,953; May 11; v. 274; p. 320.

Grant, Alexander W., Montreal, Quebec, Canada. Mop. No. 1,339,925; May 11; v. 274; p. 315.

Grawcour, Henry I. (See Lake, Frederick, assignor.)

Green, Harry E., St. John, New Brunswick, Canada. Support for pictures, plaques, and similar articles. No. 1,339,703; May 11; v. 274; p. 273.

Greenwood, Oliver P., Billerica, assignor, by mesne assignments, to A. B. Dove, Andover, Mass. Distributing-machine. No. 1,339,557; May 11; v. 274; p. 244.

Gresham, William S., Richland, Mo. Fencepost. No. 1,339,819; May 11; v. 274; p. 295.

Griffin, William G. (See Davis, G. H., and Griffin.)

Grimes, Elias O., Jr., Westminster, and O. F. Baltzley, Hagerstown, assignors to The Liberty Tool Company, Baltimore, Md. Staybolt-heading attachment for pneumatic hammers. No. 1,339,453; May 11; v. 274; p. 225.

Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,558; May 11; v. 274; p. 245.

Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,648; May 11; v. 274; p. 262.

Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,649; May 11; v. 274; p. 263.

Grissinger, Lucy A. (See Grissinger, Elwood, assignor.)

Gross, Daniel N., South Fort Smith, Ark. Gas-stove. No. 1,339,618; May 11; v. 274; p. 257.

Groten, Maximilian. (See Vinograd, E., and Groten.)

Guano & Raggio, Inc. (See Tyhout, Richard R., assignor.)

Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,339,820; May 11; v. 274; p. 295.

Guyer, Hans., assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Ribbed body for heat-interchange devices. No. 1,339,385; May 11; v. 274; p. 211.

Haight, Reuben, Hudson, N. Y. Folding beds. No. 1,339,650; May 11; v. 274; p. 263.

Haines, William B., Sunbury, Pa. Spot-light for automobiles. No. 1,339,954; May 11; v. 274; p. 320.

Hall, Everett E. (See Merrell, C. F., and Hall.)

Hall, Louis J., assignor to Columbian Bronze Corporation, Freeport, N. Y. Lifting-jack. No. 1,339,926; May 11; v. 274; p. 315.

Hall, Nelson, assignor of one-half to A. Cant, Detroit, Mich. Gear reduction and lock for steering apparatus. No. 1,339,454; May 11; v. 274; p. 225.

Hall, Rupert E., Philadelphia, Pa. Artificial teeth. No. 1,339,821; May 11; v. 274; p. 295.

Hall, William R. D., Narberth, Pa., assignor to S. Feather Company. Spinning artificial-silk waste. No. 1,340,044; May 11; v. 274; p. 337.

Ham, William R., State College, Pa. Telescope. No. 1,339,386; May 11; v. 274; p. 212.

Hamburger, Mark. (See Hamilton, E. M., and Hamburger.)

Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)

Hamilton, Edward M., and M. Hamburger, Baltimore, Md. Garage. No. 1,340,045; May 11; v. 274; p. 337.

Hammond, Edward V., Balham, London, England. Motorcycle. No. 1,339,387; May 11; v. 274; p. 212.

Hammond, John H., Jr., Gloucester, Mass. System of ether-wave control. No. 1,339,927; May 11; v. 274; p. 315.

Hankins, Isaac W. H. (See Hankins, Robert J. and I. W. H.)

Hankins, Robert J. and I. W. H. Hankins, Tazewell, Va. Mail-distributing device. No. 1,340,046; May 11; v. 274; p. 337.

Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Lubricating device. No. 1,339,619; May 11; v. 274; p. 257.

Hansen, Louis S., Pittsburgh, Pa. Toy house. No. 1,340,047; May 11; v. 274; p. 337.

Hantzsch, Eugene G., Omaha, Nebr. Automobile attachment. No. 1,339,822; May 11; v. 274; p. 295.

Harbaugh, Paul C., Portland, Oreg. Ticket-dispensing device. No. 1,339,823; May 11; v. 274; p. 295.

Hardel, Jean A., Paris, France. Apparatus for and process of lining wells. No. 1,339,955; May 11; v. 274; p. 320.

Harris, Charles J. (See Sperling, Leopold N., assignor.)

Harris, George H., assignor to Utica Valve and Fixture Company, Utica, N. Y. Gas-cock. No. 1,339,882; May 11; v. 274; p. 307.

Harris, William W., Detroit, Mich. Priming-cup. No. 1,339,883; May 11; v. 274; p. 307.

Harris, William W., Detroit, Mich. Priming-cup. No. 1,339,884; May 11; v. 274; p. 307.

Hart, Albert A., Richmond, Calif. Hose-coupling. No. 1,339,620; May 11; v. 274; p. 257.

Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)

Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,339,704; May 11; v. 274; p. 273.

Hartdorn, Louis G., Brooklyn, N. Y. Horn. No. 1,339,559; May 11; v. 274; p. 245.

Harvey, William A., Scranton, Pa. Electrical appliance. No. 1,339,847; May 11; v. 274; p. 300.

Hatfield, Frank D. (See Savidge, A. C., and Hatfield.)

Hathaway, Edgar F., and C. Lea, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-replenishing mechanism. No. 1,339,507; May 11; v. 274; p. 235.

Hauss, Hermann, Philadelphia, Pa. Building construction. No. 1,339,388; May 11; v. 274; p. 212.

Havens, Henry F., Sr., Hudson Falls, N. Y. Folding table. No. 1,339,389; May 11; v. 274; p. 212.

Havey, Michael, Los Angeles, Calif. Nozzle-holder. No. 1,339,885; May 11; v. 274; p. 307.

Hawe, Matthew. (See Brooks, James, assignor.)

Hazelton, George, Battersea, London, England. Machine-gun. No. 1,339,390; May 11; v. 274; p. 212.

Heath, Spencer, Baltimore, Md. Protector for propeller-blades. No. 1,339,886; May 11; v. 274; p. 307.

Hebert, Joseph A., Freeport, Tex. Apparatus for raising liquids from deep wells. No. 1,339,621; May 11; v. 274; p. 257.

Heggie, James. (See Corrall, H., and Heggie.)

Heine, Herman, Brooklyn, assignor to A. Kimball Company, New York, N. Y. Pin-ticket machine. No. 1,339,887; May 11; v. 274; p. 307.

Heinrich, S. J., *et al.* (See Lioune, Ernest, assignor.)

Heintz, James E., Elkhart, Kans. Disk-bearing. No. 1,339,455; May 11; v. 274; p. 225.

Helsing, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telegraph system. No. 1,339,824; May 11; v. 274; p. 295.

Heltmund, Rudolf E., Swissvale, Pa. System of control for single-phase alternating-current motors. No. 1,339,928; May 11; v. 274; p. 315.

Helimund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,339,929; May 11; v. 274; p. 315.

Helman, Calvin C., Cleveland, Ohio. Automobile-bumper. No. 1,339,756; May 11; v. 274; p. 283.

Hemphill Company. (See Bosworth, George P., assignor.)

Henlee, Lem E., Milwaukee, Wis. Support for line-conductors. No. 1,339,391; May 11; v. 274; p. 212.

Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,339,456; May 11; v. 274; p. 225.

Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,339,930; May 11; v. 274; p. 316.

Henderson, Robert B., and R. E. James, Oklahoma, Okla.; said Henderson assignor to said James. Refrigerating apparatus. No. 1,339,622; May 11; v. 274; p. 257.

Hendricks, Carl R., Jersey City, N. J. Etching apparatus. No. 1,339,457; May 11; v. 274; p. 226.

Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Geared turbine. No. 1,339,508; May 11; v. 274; p. 235.

Hicks, Charles L., Easley, S. C. Bobbin-cleaning machine. No. 1,339,888; May 11; v. 274; p. 308.

Heartzman, Artnur H., Baltimore, Md. Meat-slicing machine. No. 1,339,623; May 11; v. 274; p. 258.

Higgins, Joseph W., Bordentown, N. J. Demountable rim. No. 1,339,651; May 11; v. 274; p. 263.

Hill, Hugh, and J. B. Dyer, Anderson, Ind.; said Dyer assignor to said Hill. Dust-separator. No. 1,339,757; May 11; v. 274; p. 283.

Hills, Edward R. (See Borresen, Helge A., assignor.)

Hillman, Ernest C., Los Angeles, Calif. Auxiliary windshield. No. 1,339,889; May 11; v. 274; p. 308.

Himrod, Kirk, Ironton, Minn., assignor to P. W. McKay, trustee, Waterford, Pa. Kiln. No. 1,339,705; May 11; v. 274; p. 273.

Hinnekens, Florent, Paterson, N. J. Tentering-clip. No. 1,339,509; May 11; v. 274; p. 236.

Hintz, Joseph, Chicago, Ill. Cart. No. 1,339,624; May 11; v. 274; p. 258.

Hire, Willis, Detroit, Mich. Envelop. No. 1,339,392; May 11; v. 274; p. 213.

Hiteshew, Harvey R., Cleveland, Ohio. Making a composite casting of aluminum and another metal. No. 1,339,956; May 11; v. 274; p. 321.

Hleb, Peter, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Transmitter-guard for power-tables. No. 1,339,758; May 11; v. 274; p. 283.

Hoffman, Daniel E., Plymouth, Ohio. Adjustable sleve for separators. No. 1,339,560; May 11; v. 274; p. 245.

Hoffman, William A., Dayton, Ohio. Air blower and distributer. No. 1,339,510; May 11; v. 274; p. 236.

Holdaway, Hall H., Los Angeles, Calif., assignor to Desert Fibre Company. Machine for extracting fiber from yucca and the like. No. 1,339,825; May 11; v. 274; p. 296.

Holman, Joseph H. (See Nettle, W. E., Selby, Blyth, and Holman.)

Holloway, Sarah A., Hereford, Tex. Roasting-pan. No. 1,339,625; May 11; v. 274; p. 258.

Holm, Charles A., Tigerton, Wis. Sharpener for feed-cutters. No. 1,339,511; May 11; v. 274; p. 236.

Hopkins, Ralph Z., Detroit, Mich. Vehicle-shipping apparatus. No. 1,339,890; May 11; v. 274; p. 308.

Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Scale. No. 1,339,759; May 11; v. 274; p. 283.

Houston, Percival T., assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,339,760; May 11; v. 274; p. 283.

Howard, Monroe S., Waukon, Iowa. Player-piano-control apparatus. No. 1,339,848; May 11; v. 274; p. 300.

Howe, Albert A., Terrill, Iowa. Nursery-seat. No. 1,339,891; May 11; v. 274; p. 308.

Huda, Frank, Perth Amboy, N. J. Non-skid for wheels. No. 1,340,048; May 11; v. 274; p. 337.

Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,512; May 11; v. 274; p. 236.

Hughel, Clarence, Indianapolis, Ind. Dispensing-pump. No. 1,339,626; May 11; v. 274; p. 258.

Hughes, Emily W., administratrix. (See Hughes, Johnson.)

Hughes Granite Company, The. (See Hughes, W. E., and King, assignors.)

Hughes, Johnson, deceased; E. W. Hughes, administratrix, Philadelphia, Pa. Electric furnace. No. 1,339,393; May 11; v. 274; p. 213.

Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Ventilating and drainage system. No. 1,339,761; May 11; v. 274; p. 284.

Hulett, Elzie H., Michigan City, Ind. Water-glass. No. 1,339,561; May 11; v. 274; p. 245.

Humpherys, William L., Sarasota, Fla., Dispensing-counter. No. 1,339,652; May 11; v. 274; p. 263.

Hunstad, Clarence J., Guttenberg, Iowa. Leak-proof oil-washer. No. 1,339,762; May 11; v. 274; p. 284.

Hunter, Philip V., Purley, and J. R. Beard, Benton, England. Protection of electric distribution systems. No. 1,339,394; May 11; v. 274; p. 213.

Hunter, Rudolph M., Philadelphia, Pa, assignor to H. W. Butterworth & Sons Company. Apparatus for feeding and guiding cloth. No. 1,339,826; May 11; v. 274; p. 296.

Huntington, Henry J., *et al.* (See Lippitt, Elihu, assignor.)

Hurt, George C., Blackstone, Va. Combined cap and funnel for radiator-filling tubes. No. 1,339,562; May 11; v. 274; p. 245.

Hurteau, Jean B., Terrebonne, Quebec, Canada. Boot and shoe. No. 1,340,049; May 11; v. 274; p. 338.

Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane-crushing apparatus. No. 1,339,600; May 11; v. 274; p. 253.

Hyman, Herbert R., Indianapolis, Ind., and T. B. Messick, Toledo, Ohio. Securing depth and relief for commercial advertising. No. 1,339,892; May 11; v. 274; p. 308.

Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)

Ideal Wrapping Machine Company. (See Frey, John C., assignor.)

Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)

Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,339,395; May 11; v. 274; p. 213.

Ingersoll, Howard L., White Plaines, N. Y. Governor control for booster-motors for locomotives. No. 1,339,513; May 11; v. 274; p. 236.

International Precipitation Company. (See Schmidt, Walter A., assignor.)

Ioka, Unji Sakai, Osaka-Fu, Japan. Removing the odor from fish-oil. No. 1,340,050; May 11; v. 274; p. 338.

Jackson, Avis, East St. Louis, Ill. Automobile-lock. No. 1,340,051; May 11; v. 274; p. 338.

Jackson, Roy A., Springfield, N. J. Apparatus for teaching arithmetic. No. 1,340,052; May 11; v. 274; p. 338.

James, Robert E. (See Henderson, R. B., and James.)

Janda, John, Noble, Okla. Dirigible airship. No. 1,340,053; May 11; v. 274; p. 338.

Jansma, Jacob, Hospers, Iowa. Device for hiding shingles. No. 1,339,458; May 11; v. 274; p. 226.

Janssen, Henry, assignor to Textile Machine Works, Wyomissing, Pa. Jacquard mechanism. No. 1,339,957; May 11; v. 274; p. 321.

Jeffrey Manufacturing Company, The. (See Fowler, John T., assignor.)

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assigner.)

Jeffrey Manufacturing Company, The. (See Liggett, William K., asignor.)

Jenkins, Edward W., Norristown, Pa. Machine for Tying bundles, &c. No. 1,339,396; May 11; v. 274; p. 213.

Johnson, Charles, assignor of one-half to W. Crawford, Bedford, Ind. Fan-belt retaining and tightening device. No. 1,339,893; May 11; v. 274; p. 308.

Johnson, Ernest S., Webster City, Iowa. Animal-feeding device. No. 1,339,763; May 11; v. 274; p. 284.

Johnson, Gustave P., Waukegan, Ill. Pump. No. 1,339,563; May 11; v. 274; p. 246.

Johnson, Herman, and A. D. C. Walker, Marion, Ind. Flag, pennant, or banner floating bracket. No. 1,339,849; May 11; v. 274; p. 300.

Johnson, John A., Baltimore, Md. Truck. No. 1,339,514; May 11; v. 274; p. 237.

Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Label-wiping mechanism. No. 1,339,764; May 11; v. 274; p. 284.

Johnson, Peter A., assignor to Johnson-Fries Marine Construction Co., Portland, Oreg. Ship-steering apparatus. No. 1,339,850; May 11; v. 274; p. 300.

Johnson, Thomas W., North Attleboro, Mass. Brush. No. 1,339,894; May 11; v. 274; p. 309.

Johnson-Fries Marine Construction Co. (See Johnson, Peter A., assignor.)

Jones, Charles W., St. Paul, Minn. Razor-blade holder. No. 1,339,397; May 11; v. 274; p. 214.

Jones, Ernest H., Islington, London, England. Manufacture of electrodes for soldering and depositing metals by the electric arc. No. 1,339,515; May 11; v. 274; p. 237.

Josephson, Harry, assignor of one-half to R. C. McNeil, Bridgeport, Conn. Coal-bag. No. 1,339,851; May 11; v. 274; p. 301.

Josephson, Henry, Cleveland, Ohio. Brake mechanism for automobiles. No. 1,339,895; May 11; v. 274; p. 309.

Judge, John, New York, N. Y. Incandescent lamp. No. 1,340,054; May 11; v. 274; p. 339.

Jurist, Martin. (See Nelson, Emil A., assignor.)

Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)

Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)

Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Oil-can. No. 1,339,765; May 11; v. 274; p. 284.

Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Guard for Power-table driving mechanisms. No. 1,339,766; May 11; v. 274; p. 285.

Karlsson, Karl W., East Boston, Mass. Feeding attachment for bitstocks. No. 1,339,958; May 11; v. 274; p. 321.

Karr, Burton A., Los Angeles, Calif. Pneumatic tire. No. 1,339,516; May 11; v. 274; p. 237.

Katz, Joseph M., Brooklyn, N. Y. Bag or suitcase. No. 1,339,653; May 11; v. 274; p. 263.

Kaufman, Alfonse, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Making sodium cyanid. No. 1,339,706; May 11; v. 274; p. 274.

Kaufman, Isaac M., Brooklyn, N. Y. Mop-head. No. 1,339,398; May 11; v. 274; p. 214.

Keller Pneumatic Tool Company. (See Sykes, Lewis, assignor.)

Kelly, Daniel R., assignor to J. P. Murray, Toronto, Ontario, Canada. Duster attachment for brooms. No. 1,339,767; May 11; v. 274; p. 285.

Kelly, William G., Hot Springs, Ark. Bunk-block. No. 1,340,055; May 11; v. 274; p. 339.

Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Gripper-actuating mechanism. No. 1,339,654; May 11; v. 274; p. 264.

Kemp, Walter D., New York, N. Y. Educational game-board. No. 1,339,399; May 11; v. 274; p. 214.

Kemper, Charles H., Oakland, Calif. Bracelet-gage. No. 1,339,896 May 11; v. 274; p. 309.

Kenney, James R., Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shaft-oscillator. No. 1,339,897; May 11; v. 274; p. 309.

Kenniker, Nicholas O., and F. A. Fritze, Jr., assignors to Durable Box Co., Chicago, Ill. Box. No. 1,340,119; May 11; v. 274; p. 352.

Kent, Leslie H. (See de Normanville, S. A., and Kent.)

Kenyon, Otis A., New York, N. Y. Multiple-arc welding. No. 1,340,056; May 11; v. 274; p. 339.

Killman, Emil. (See Ruhl, George W., assignor.)

Kimball, A., Company. (See Heine, Herman, assignor.)

Kimball, Earl H., assignor to Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engine. No. 1,339,517; May 11; v. 274; p. 237.

King, Alexander C. (See Le Cerf, Joseph E., assignor.)

Kinnear, Harry B., Massillon, and A. J. Townsend, Canton, Ohio. Furnace. No. 1,339,564; May 11; v. 274; p. 246.

King, James B. (See Hughes W. E., and King.)

Kresky, Theron J., assignor to E. C. Newton, Marysville, Calif. Magneto-governor. No. 1,339,655; May 11; v. 274; p. 264.

Kriel, John J. and O. J., Taylor, Tex. Cotton-chopper. No. 1,340,057; May 11; v. 274; p. 339.

Kriel, Otto J. (See Kriel, John J. and O. J.)

Krueger, Carl E., Glenwood Springs, Colo. Attachment to telephones. No. 1,339,518; May 11; v. 274; p. 237.

Kunditz Theodor Company, The. (See Dianiska, John, assignor.)

La Chapelle, Andrew S., Detroit, Mich. Automobile-jack. No. 1,339,459; May 11; v. 274; p. 226.

La Grant, John H. (See Bailey, F. L. and La Grant.)

Lambert, Alvan R., Anderson, Ind. Air-cleaner for internal-combustion engines. No. 1,340,058; May 11; v. 274; p. 339.

Lambert, Zéphirin, assignor to J. E. McLaughlin, Grand Mére, Quebec, Canada. Pneumatic drill. No. 1,339,565; May 11; v. 274; p. 246.

La Montagne, Patrick P., Burbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine needle. No. 1,339,959; May 11; v. 274; p. 321.

Lamprecht, Emil, Philadelphia, Pa. Mouth-organ. No. 1,339,960; May 11; v. 274; p. 321.

La Munyon, Lynne, Soshone, Idaho. Bell-Ringer. No. 1,340,059; May 11; v. 274; p. 339.

Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Impregnating apparatus. No. 1,339,400; May 11; v. 274; p. 214.

Landgrebe, Anton, New York, N. Y. Faucet. No. 1,340,060; May 11; v. 274; p. 340.

Landgrebe, Anton, New York, N. Y. Tube-cap. No. 1,340,061; May 11; v. 274; p. 340.

Langston, Samuel M., Wenonah, assignor to Samuel M. Langston Company, Camden, N. J. Delivery-stand for rolled material. No. 1,339,460; May 11; v. 274; p. 226.

Langston, Samuel M., Company. (See Langston, Samuel M., assignor.)

Lapham, Frank W., Lake Beulah, Wis. Carbueting-screen for intake-valves. No. 1,340,062; May 11; v. 274; p. 340.

Lapointe, Francis J., Ann Arbor, Mich. Cutter-bar and bushing therefor. No. 1,339,656; May 11; v. 274; p. 264.

Lapointe, Francis J., Ann Arbor, Mich. Finishing-broach. No. 1,339,657; May 11; v. 274; p. 264.

Larkin, Elwood T. (See Criqui, C. A., and Larkin.)

Lawrence, John T., Inman, S. C. Seed-cotton culler. No. 1,340,063; May 11; v. 274; p. 340.

Layman, James C., Devilsfork, W. Va. Wire-winding device. No. 1,340,064; May 11; v. 274; p. 340.

Layne, Mahlon E., Memphis, Tenn. Well-screen. No. 1,339,898; May 11; v. 274; p. 309.

Lazarides, Platon, New York, N. Y. Eraser-holding clip for pencils. No. 1,339,707; May 11; v. 274; p. 274.

Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Apparatus for producing hydrochloric acid utilizing sludge acid. No. 1,339,519; May 11; v. 274; p. 237.

Latter, Alexander, Jersey City, N. J. Calendar. No. 1,339,401; May 11; v. 274; p. 214.

Launbranch, Malcolm E., Chicago, Ill. Electric sign. No. 1,339,566; May 11; v. 274; p. 246.

Law, George H., Portland, Me. Rolling automobile-jack. No. 1,339,827; May 11; v. 274; p. 296.

Lea, Charles. (See Hathaway, E. F., and Lea.)

Le Cerf, Joseph E., Raymond, Wash., assignor of one-half to A. C. King, San Diego, Calif. Receptacle. No. 1,339,899; May 11; v. 274; p. 310.

Lee, Alfred W., Tarrytown, N. Y. Folding universal table. No. 1,340,065; May 11; v. 274; p. 340.

Lee, Charles H., Garwood, Mo. Paper-file. No. 1,339,768; May 11; v. 274; p. 285.

Lees, Ernest J., assignor to The Lees-Bradner Company, Cleveland, Ohio. Drill-machine. No. 1,339,461; May 11; v. 274; p. 226.

Lees-Bradner Company, The. (See Lees, Ernest J., assignor.)

Leigh, John S., Cincinnati, Ohio. Oil-refiner. No. 1,339,769; May 11; v. 274; p. 285.

Lemle, William, Chicago, Ill. Theater-curtain-operating mechanism. No. 1,340,066; May 11; v. 274; p. 341.

Leo, Isaac L. (See Normandy, Isaac, assignor.)

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulley-block. No. 1,339,931. May 11; v. 274; p. 316.

Lewis, Alfred A., Melbourne, and F. O. Dutton, Northcote, Victoria, Australia. Safety device or appliance for use with aeroplanes, airships, and other aircraft. No. 1,339,828; May 11; v. 274; p. 296.

Lewis, Harry A., Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electromagnet apparatus. No. 1,339,900; May 11; v. 274; p. 310.

Lewis, Leroy M., Philadelphia, Pa. Alarm-controlling mechanism. No. 1,339,567; May 11; v. 274; p. 247.

Lewis, Leroy M., Philadelphia, Pa. Fusible link and strut. No. 1,339,829; May 11; v. 274; p. 297.

Liberty Radiator Company. (See Coffelder, Thomas N., assignor.)

Liberty Tool Company, The. (See Grimes, E. O., Jr., and Baltzley, assignor.)

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Single-roll crusher. No. 1,339,932; May 11; v. 274; p. 316.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Single-roll crusher. No. 1,339,933; May 11; v. 274; p. 316.

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Running-gear for children's carriages and the like. No. 1,339,961; May 11; v. 274; p. 321.

Lindstrom, Frank L., Bridgeport, Conn. Spring-movement for toy vehicles. No. 1,339,934; May 11; v. 274; p. 316.

Link, Anton, Chicago, Ill. Clamp. No. 1,339,830; May 11; v. 274; p. 297.

Lionne, Ernest, Needham, assignor of one-fourth to A. E. Reinbardt, Lynn, one-fourth to W. J. DeWitt, and one-fourth to S. J. Heinrich, Newton, Mass. Protecting-covering for boots and shoes and other articles and preparing same. No. 1,339,462; May 11; v. 274; p. 227.

Lippert, Samuel, East Cleveland, Ohio. Condensing and vacuum pump. No. 1,339,402; May 11; v. 274; p. 215.

Lippitt, Elihu, Cleveland, Ohio, assignor of one-third to H. J. Huntington and one-third to S. W. Lippitt. Knitting-machine. No. 1,339,708; May 11; v. 274; p. 274.

Lippitt, Stephen W., *et al.* (See Lippitt, Elihu, assignor.)

Locke, Leslie L., Washington, D. C. Folding portable ironing-board. No. 1,339,831; May 11; v. 274; p. 297.

Lockewitz, Arthur E. C. and E. W. M., Bloomington, Ill. Spark-plug. No. 1,339,463; May 11; v. 274; p. 227.

Lockewitz, Edward W. M. (See Lockewitz, Arthur E. C. and E. W. M.)

Lockhart, Harold J., Parkersburg, W. Va. Band-wheel construction. No. 1,339,852; May 11; v. 274; p. 301.

Lockwood, Lee W., Minneapolis Minn. Combined rain and glare guard for the windshields of automobiles. No. 1,339,770; May 11; v. 274; p. 285.

Lorenz, Herman E. S., Chappaqua, N. Y. Coil-box protector. No. 1,339,568; May 11; v. 274; p. 247.

Lovell, John E., Hastings, Nebr. File-handle. No. 1,339,658; May 11; v. 274; p. 264.

Lowden, Hugh B., Denver, Colo. Drying materials. No. 1,339,771; May 11; v. 274; p. 286.

Lowenstein, Fritz, Brooklyn, N. Y. Radiosignaling apparatus. No. 1,339,772; May 11; v. 274; p. 286.

Lucas, Henry M., Cleveland, Ohio. Power-press. No. 1,339,773; May 11; v. 274; p. 286.

Lucas, Henry M., Cleveland, Ohio. Power-press. No. 1,339,774; May 11; v. 274; p. 286.

Ludlum Electric Furnace Corporation. (See Trembour, Max R., assignor.)
Luffman, Reginald J., *et al.* (See Forse, Lyndall, assignor.)
Luft, Edward, St. Louis, Mo. Metallic window-screen. No. 1,339,464; May 11; v. 274; p. 227.
Luke, Frederick, assignor of one-fourth to H. I. Grawcour, Geelong, Victoria, Australia. Economization of hydrocarbon-engine fuel. No. 1,339,465; May 11; v. 274; p. 227.
Lum, Walter O., Amsterdam, N. Y., assignor to General Electric Company. Controlling means for electric circuits. No. 1,339,466; May 11; v. 274; p. 227.
Luthy, Joseph O., San Antonio, Tex. Separator for storage-battery plates. No. 1,339,853; May 11; v. 274; p. 301.
Lyon, Jesse D., assignor to the Fulname Company, Cincinnati, Ohio. Golf-ball marker. No. 1,339,569; May 11; v. 274; p. 247.
Lytle, John H., and J. J. McFarland, Milwaukee, Wis. Carbureter. No. 1,339,403; May 11; v. 274; p. 215.
McAvoy, Francis J., Newark, N. J. Automatic train-stop. No. 1,340,068; May 11; v. 274; p. 341.
McConnell, George, Grand Rapids, Mich. Gluing-machine. No. 1,339,467; May 11; v. 274; p. 228.
McConway & Torley Company, The. (See Regan, William J., assignor.)
McCoy, Joseph, Minneapolis, Minn. Apparatus for refrigeration. No. 1,339,659; May 11; v. 274; p. 264.
McCray, John M., Pueblo, Colo. Shoe-holder. No. 1,339,520; May 11; v. 274; p. 238.
McCullough, Alfred, Callery, Pa. Anti-skid attachment for vehicle-wheels. No. 1,339,854; May 11; v. 274; p. 301.
McFarland, John J. (See Lytle, J. H., and McFarland.)
McKay, Paul W., trustee. (See Himrod, Kirk, assignor.)
McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, London, England. Car for airships. No. 1,339,570; May 11; v. 274; p. 247.
McKune, Frank B., Hamilton, Ontario, Canada. Open-hearth furnace. No. 1,339,855; May 11; v. 274; p. 302.
McLaughlin, J. E. (See Lambert, Zéphirin, assignor.)
McLaughlin, Joseph H., Chicago, Ill. Attachment for slicing-machines. No. 1,339,901; May 11; v. 274; p. 310.
McManus, Edward L., Southbridge, Mass. Fly-guard. No. 1,340,069; May 11; v. 274; p. 341.
McNeil, Roderick C. (See Josephson, Harry, assignor.)
MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical device. No. 1,339,902; May 11; v. 274; p. 310.
Macleod, Donald K. (See Blair, D. E., and Macleod.)
Macloskie, George, Erie, Pa., assignor to General Electric Company. Air-brake system. No. 1,339,962; May 11; v. 274; p. 322.
Maehler, Arthur, Chicago, Ill. Sectional oven. No. 1,339,601; May 11; v. 274; p. 253.
Mahan, Chancy E., Shelbyville, Ill. Antiskid device for automobile-wheels. No. 1,339,963; May 11; v. 274; p. 322.
Mailloux, Harvey A., Haverhill, Mass. Time-controlled furnace-regulator. No. 1,339,468; May 11; v. 274; p. 228.
Malone, James H. (See Peck, Frederick G., assignor.)
Maltz, Meyer, assignor of one-half to B. M. Arnesen and one-half to W. C. Utes, Chicago, Ill. Phonograph-tone modifier. No. 1,339,404; May 11; v. 274; p. 215.
Marien, Charles A. (See Franz, John W., assignor.)
Markel, Edwin M. (See Davis, Noah W., assignor.)
Markham, Elnathan E., Kenosha, Wis. Clothesline-supporter. No. 1,340,070; May 11; v. 274; p. 341.
Marsh, Elsie D., Watervliet, N. Y. Child's waterproof diaper. No. 1,339,602; May 11; v. 274; p. 253.
Marx, George G., Detroit, Mich. Iron composition. No. 1,339,469; May 11; v. 274; p. 228.
Mason, Jason B., assignor to Reed Foundry & Machine Co., Kalamazoo, Mich. Tractor-plow. No. 1,339,603; May 11; v. 274; p. 254.
Massillon Wire Basket Co., The. (See Schworm, Clarence W., assignor.)
Maxey, Warren G., and W. A. Rideout, Oshkosh, Wis. Door-bottom weather-strip. No. 1,339,775; May 11; v. 274; p. 286.
Mayer, William G., Pittsburgh, Pa. Supporting connection for vehicle-bodies. No. 1,339,521; May 11; v. 274; p. 238.
Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Thermostatic fuel-regulating device for gas-ovens. No. 1,339,964; May 11; v. 274; p. 322.
Mears, Robert S., Arkansas City, Kans. Combination boiler and still. No. 1,339,470; May 11; v. 274; p. 228.
Melland, William. (See Nield, William H., assignor.)
Merrell, Charles F., Jasper, Mo., and E. E. Hall, Bayard, Kans. Cattle-flytrap. No. 1,340,071; May 11; v. 274; p. 342.
Merrick, Frank W., Boston, Mass. Leather-edge-finishing machine and method therefor. No. 1,339,776; May 11; v. 274; p. 286.
Mersfelder, William L., assignor to Detroit Stove Works, Detroit, Mich. Automatic damper control. No. 1,339,571; May 11; v. 274; p. 247.
Messick, Turner B. (See Hyman, H. R., and Messick.)
Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Means for removing deposits from electrodes. No. 1,339,471; May 11; v. 274; p. 228.
Metcalf, Maurice A. (See Sabbag, Litfallah G., assignor.)
Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regenerating system. No. 1,339,903; May 11; v. 274; p. 310.
Meyers, Frank, Laurel, Oreg. Compound implement. No. 1,339,405; May 11; v. 274; p. 215.
Middlebrooks, James M., Birmingham, Ala. Actuator for traffic-signals. No. 1,339,660; May 11; v. 274; p. 265.
Mikkin, Carl A., Olmstead, Ill. Hame and trace connector. No. 1,339,777; May 11; v. 274; p. 287.
Miller, Daniel D., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,339,778; May 11; v. 274; p. 287.
Miller, Henry, assignor to A. O. Smith Corporation, Milwaukee, Wis. Offsetting-press. No. 1,340,138; May 11; v. 274; p. 355.
Miller, John M., Sewickley, Pa. Liquid-vending apparatus. No. 1,339,522; May 11; v. 274; p. 238.
Mills Woven Cartridge Belt Company. (See Spalding, George W., assignor.)
Milner, Harry L., Manchester, and A. R. Beeby, South Farnborough, England. Valve mechanism of internal-combustion engines. No. 1,339,406; May 11; v. 274; p. 215.
Milton, Fred C., Eastside, Oreg. Staging. No. 1,339,661; May 11; v. 274; p. 265.
Mitchell, Moorehouse, Quebec, Quebec, Canada. Fastener for shuttle-tips. No. 1,339,572; May 11; v. 274; p. 248.
Mitchell, William C., Grandview, Tenn. Wire-stretcher. No. 1,339,407; May 11; v. 274; p. 216.
Mohler, Charles M., Richmond, Ind. Spring-saddle and shock-absorber. No. 1,339,779; May 11; v. 274; p. 287.
Mohn, Augustus A., London, England. Liquid-hydrocarbon burner of the injection type. No. 1,339,709; May 11; v. 274; p. 274.
Monitor Stove & Range Company, The. (See Doyle, W. J., and Wollenhaupt, assignors.)
Monkhorst, Hermanus G., Delft, Netherlands. Automatic corking-machine. No. 1,339,904; May 11; v. 274; p. 310.
Monteith, Caroline, South Orange, N. J. Juvenile printing-block. No. 1,340,072; May 11; v. 274; p. 342.
Moore, Thomas C., San Francisco, Calif. Door-securer. No. 1,339,856; May 11; v. 274; p. 302.
Morey, Roy C., Lincoln, Nebr. Shock-absorber; No. 1,339,780; May 11; v. 274; p. 287.
Morgan, Thomas, Worcester, Mass. Machine for making popcorn. No. 1,339,662; May 11; v. 274; p. 265.
Morris, Jolly L. (See Allen, C. H., and Morris.)
Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Fan-belt guide for Ford and other cars. No. 1,339,408; May 11; v. 274; p. 216.
Morrison, Abraham L., Dubuque, Iowa. Headlight-glass. No. 1,339,604; May 11; v. 274; p. 254.
Moses, Alice, Bennington, Vt. Button-fastener. No. 1,340,073; May 11; v. 274; p. 342.
Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
Murphy, Thomas W., and W. Czarnecki, Philadelphia, Pa. Spray-nozzle. No. 1,340,136; May 11; v. 274; p. 355.
Murray, James G. (See Sawders, F. P., and Murray.)
Murray, James P. (See Kelly, Daniel R., assignor.)
Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
Murray, Thomas E. New York, N. Y. Electric fuse. No. 1,339,965; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing a rib on an electrically-welded joint. No. 1,339,966; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrically welding metal bodies. No. 1,339,967; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,968; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,969; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing longitudinal ribs on the exterior of tubes. No. 1,339,970; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,971; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,972; May 11; v. 274; p. 323.
Myers, William S., and A. L. Smith, Ashland, Ky., assignors of one-third to C. R. Wilson, Chicago, Ill. Portable boring and grinding device for automobile-cylinders. No. 1,339,409; May 11; v. 274; p. 216.
N. V. Vitrite Works. (See Ghijsen, Hulbert C., assignor.)
Naftel, Paul F., and H. H. Garner, Pomona, Calif. Tractor-tread idler. No. 1,339,523; May 11; v. 274; p. 238.
Nakabayashi, Yoshinohu, deceased, Seattle, K. Nakabayashi, administrator, Seattle, Wash. Fender for ships. No. 1,339,663; May 11; v. 274; p. 265.
Nakabayashi, Kisaburo, administrator. (See Nakabayashi, Yoshinohu.)
Napier, D., & Son. (See Rowledge, Arthur J., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Spring & Wire Company. (See Wiselogel, James J., assignor.)

Neal, Franklin G., St. Louis, Mo. Machine for applying marks to articles. No. 1,339,857; May 11; v. 274; p. 302.
Needham, Moses W., Waco, Tex. Rubber-tire filler with a flexible metal cable in the center. No. 1,339,472; May 11; v. 274; p. 228.
Nellis, Addan, Monowi, Nebr. Gate-fastener. No. 1,339,781; May 11; v. 274; p. 288.
Nelson, Charley E., Morgan, Tex. Drag. No. 1,339,664; May 11; v. 274; p. 266.
Nelson, Emil A., Detroit, Mich., assignor to Martin Jurist, Toledo, Ohio. Spring suspension for motor-vehicles. (Reissue.) No. 14,856; May 11; v. 274; p. 355.
Nettle, William E., P. Selby, J. Blyth, and J. H. Holman, Johannesburg, Transvaal, South Africa. Conveying liquid to rock-drilling tools. No. 1,339,858; May 11; v. 274; p. 302.
New Jersey Zinc Company, The. (See Breyer, F. G., and Bunce, assignors.)
Newton, Edward C. (See Kresky, Theron J., assignor.)
Nichols, James S., Atlanta, Ga. Superheater. No. 1,340,074; May 11; v. 274; p. 342.
Nield, William H., Stockport, assignor of one-half to W. Melland, Manchester, England. Furnace. No. 1,339,859; May 11; v. 274; p. 302.
Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,339,473; May 11; v. 274; p. 229.
Norman, George, Birmingham, England. Mount or stand for machine-guns. No. 1,339,410; May 11; v. 274; p. 216.
Normandy, Isaac, St. Catharines, assignor to I. L. Leo, Toronto, Ontario, Canada. Pneumatic tire. No. 1,339,782; May 11; v. 274; p. 288.
North, Charles E., Montclair, N. J., assignor of one-half to E. B. Phelps, Washington, D. C. Cleansing and sterilizing preparations. No. 1,339,783; May 11; v. 274; p. 288.
Norton Company. (See Dunbar, H. W., Turner, and Smith, assignors.)
Norton Company. (See Norton, C. H., Turner, and Wilcox, Jr., assignors.)
Norton, Charles H., A. Turner, and J. S. Wilcox, Jr., assignors, by mesne assignments, to Norton Company, Worcester, Mass. Cross-feed mechanism for grinding-machines. No. 1,339,860; May 11; v. 274; p. 302.
O. & J. Machine Company, The. (Johnson, J. E., and Oslund, assignors.)
O'Connor, Arthur F., assignor to The Union Railway Equipment Co., Chicago, Ill. Tank hand-hole and cover. No. 1,339,905; May 11; v. 274; p. 311.
O'Connor, Arthur F., assignor to The Union Railway Equipment Co., Chicago, Ill. Ventilator. No. 1,339,973; May 11; v. 274; p. 324.
Odier, Antoine L., Puteaux, France. Apparatus for starting internal-combustion engines and also for other purposes. No. 1,339,411; May 11; v. 274; p. 216.
Olson, Benjamin W., Stillwater, Minn. Automobile-brake. No. 1,339,524; May 11; v. 274; p. 238.
Ordnance Engineering Corporation. (See Bergman, Axel G., assignor.)
Ormes, Norman A., Pittsburgh, Pa. Barrel-cleat. No. 1,340,075; May 11; v. 274; p. 342.
Orr, Robert P., Albany, N. Y. Yoke or shoulder-weight carrier. No. 1,340,076; May 11; v. 274; p. 342.
Orr, Robert P., Albany, N. Y. Carrier-receptacle. No. 1,340,077; May 11; v. 274; p. 343.
Osborne, Randolph J., Chicago, Ill. Rug-drying device. No. 1,339,784; May 11; v. 274; p. 288.
Oslund, Charles H. (See Johnson, J. E., and Oslund.)
Otto, Albert and W., assignors of one-half to F. E. Scott and G. Butler, Kansas City, Mo. Air and gas valve. No. 1,339,665; May 11; v. 274; p. 266.
Otto, William. (See Otto, Albert and W.)
Owen, John E. (See Van Camp, John, assignor.)
Pace, Carl D., Oxford, assignor of one-half to J. C. Wheeler, Anniston, Ala. Stump-puller. No. 1,339,666; May 11; v. 274; p. 266.
Packard Motor Car Company. (See Belden, Edward H., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Paddon, Wadham, L., Gosport, England. Sleigh-carrier. No. 1,339,861; May 11; v. 274; p. 303.
Page, Adolphus L., Rochester, N. Y., assignor of two-fifths to S. Rubin, Baltimore, Md. Tinning aluminum. No. 1,339,710; May 11; v. 274; p. 274.
Paramount Knitting Company. (See La Montague, Patrick P., assignor.)
Paris, Pablo, New York, N. Y. Motor-drive for typesetting-machines. No. 1,339,667; May 11; v. 274; p. 266.
Park, Jay M., assignor of one-half to R. B. Charles, Chaffee, N. Y. Tongue-depressor. No. 1,339,711; May 11; v. 274; p. 275.
Partridge, Arthur S., *et al.* (See Ehrlich, Leo, assignor.)
Paschen, Henry. (See Deneau, William M., assignor.)
Pauly, Albert A., Cleveland, Ohio. Molding apparatus. No. 1,339,712; May 11; v. 274; p. 275.
Pearson, Terrell B., Waco, Tex. Cylindrical structure. No. 1,339,862; May 11; v. 274; p. 303.
Peck, Frederick G., Bradford, assignor, by mesne assignments, to J. H. Malone, Philadelphia, Pa. Portable grinding device. No. 1,340,120; May 11; v. 274; p. 352.
Pedrick, Albert C. (See Selah, Howard A., assignor.)
Peoples, John S., United States Army. Container. No. 1,340,078; May 11; v. 274; p. 343.
Perrine, George L., Portland, Oreg. Hose-reel. No. 1,339,785; May 11; v. 274; p. 288.
Persohn, Frank A., Baltimore, Md. Lens-mount. No. 1,339,974; May 11; v. 274; p. 324.
Peters, Lyle, Denver, Colo. Valve-lock. No. 1,339,412; May 11; v. 274; p. 217.
Peters, Thomas J., Peters, Fla. Tomato and fruit sorter and distributer. No. 1,340,079; May 11; v. 274; p. 343.
Petersen Owen Company. (See Wundrack, Otto, assignor.)
Pettibone, Charles L., Detroit, Mich. Thread-gage. No. 1,339,573; May 11; v. 274; p. 248.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-rigging arrangement. No. 1,339,413; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,339,414; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-rigging. No. 1,339,415; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake supporting and leveling device. No. 1,339,416; May 11; v. 274; p. 217.
Pfau, William F., Cincinnati, Ohio. Wheel. No. 1,339,574; May 11; v. 274; p. 248.
Pfersch, Clarence L., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Card-matches. No. 1,339,975; May 11; v. 274; p. 324.
Pfister, George J., St. Paul, Minn. Cutter. No. 1,340,137; May 11; v. 274; p. 355.
Pflueger, Charles T. (See Pflueger, Ernest A. and C. T.)
Pflueger, Ernest A. and C. T., assignors to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-tackle. No. 1,339,832; May 11; v. 274; p. 297.
Phelps, Earle B. (See North, Charles E., assignor.)
Pratt, Walter J. (See Smith, Joseph H., assignor.)
Pierce, Robert C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bonded-wire-cable structure and making same. No. 1,339,417; May 11; v. 274; p. 217.
Piersen, Edwin H., Topeka, Kans. Electric switch. No. 1,339,976; May 11; v. 274; p. 324.
Poehland, Bernhard, Brooklyn, N. Y. Tuning-peg for stringed instruments. No. 1,339,418; May 11; v. 274; p. 218.
Pogany, Alfred, assignor of one-half to A. Gabriel, Philadelphia, Pa. Stopping device. No. 1,339,474; May 11; v. 274; p. 229.
Poindexter, George B., Bremerton, Wash. Combination-lock. No. 1,339,668; May 11; v. 274; p. 266.
Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,339,575; May 11; v. 274; p. 248.
Porteous, James, Fresno, Calif. Rotary harrow. No. 1,339,605; May 11; v. 274; p. 254.
Porter, Joseph W., Oakland, and R. L. Arndt, assignors to Union Tractor Company, San Francisco, Calif. Traction-belt. No. 1,339,786; May 11; v. 274; p. 288.
Porter, Robert S., assignor of one-half to D. C. Burnham, San Diego, Calif. Fuse-plug. No. 1,340,080; May 11; v. 274; p. 343.
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Pouvailsmith Corporation. (See Smith, Grant E., assignor.)
Powdered Coal Engineering Equipment Company. (See Pruden, Harry B., assignor.)
Powell, Elwood L., Philadelphia, Pa., and H. J. Allersworth, St. Louis, Mo. Protractor-level. No. 1,339,787; May 11; v. 274; p. 289.
Powers, John C., Rockwell City, Iowa. Corn-planter. No. 1,339,576; May 11; v. 274; p. 248.
Premier Motor Corporation of America. (See Taylor, John S., assignor.)
Prosser, Joseph W., New York, N. Y. Motor-vehicle drive. No. 1,339,475; May 11; v. 274; p. 229.
Pruden, Harry B., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Container for comminuted material. No. 1,339,977; May 11; v. 274; p. 324.
Pugh, Morton E., Fulton, Mo. Dipper for excavators. No. 1,339,606; May 11; v. 274; p. 254.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,339,906; May 11; v. 274; p. 311.
Pullen, Ovid, Harmony, N. C. Cuff-button. No. 1,339,713; May 11; v. 274; p. 275.
Pye, Robert E., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain-tire grip. No. 1,339,978; May 11; v. 274; p. 324.
Quin, Frank, Philadelphia, Pa. Sanctuary-lamp. No. 1,339,788; May 11; v. 274; p. 289.

Rabbitt, James H., Mamaroneck, N. Y. Direction-indicator. No. 1,340,081; May 11; v. 274; p. 343.
Rapp, Andrew, New York, N. Y. Foldable furniture. No. 1,339,669; May 11; v. 274; p. 267.
Rea, Philip M., West Chicago, Ill. Wire-line clamp. No. 1,339,419; May 11; v. 274; p. 218.
Rea, Philip M., West Chicago, Ill. Liner for wire-line clamps. No. 1,339,420; May 11; v. 274; p. 218.
Reader, James H., Kanapolis, N. C. Combined roll-holders, cutters, and twine-holders. No. 1,340,132; May 11; v. 274; p. 354.
Rechter, George, San Francisco, Calif. Comb-cleaner. No. 1,339,863; May 11; v. 274; p. 303.
Reed Foundry & Machine Co. (See Mason, Jason B., assignor.)
Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging for railway-cars. No. 1,339,714; May 11; v. 274; p. 275.
Reichel, Louis J., and W. L. Warner, Chicago, Ill. Locking means for printers' forms. No. 1,339,607; May 11; v. 274; p. 254.
Reinhardt, A. E., *et al.* (See Lionne, Ernest, assignor.)
Reinl, Herman, Secaucus, N. J. Sash-lock. No. 1,339,670; May 11; v. 274; p. 267.
Remington Typewriter Company. (See Barr, John H., assignor.)
Requillart, Edouard. (See Contal, C., and Requillart.)
Research Corporation. (See Meston, Archibald F., assignor.)
Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn., Chain tire-grip. No. 1,339,979; May 11; v. 274; p. 325.
Reynolds, Arthur W., Newton, Conn. One-horse sulky-cultivator. No. 1,339,864; May 11; v. 274; p. 303.
Rhotanium Company, The. (See Fahrenwald, Frank A., assignor.)
Rich, George R., Battle Creek, Mich. Tappet for internal-combustion engines. No. 1,339,421; May 11; v. 274; p. 218.
Rideout, William A. (See Maxcy, W. G., and Rideout.)
Rieger, Henry E. (See White, F. M., and Rieger.)
Roberson, William S. (See Foister, John L., assignor.)
Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Drop-stitch mechanism for knitting-machines. No. 1,339,715; May 11; v. 274; p. 275.
Roche, John W., Philadelphia, Pa., assignor of one-half to E. M. Sleppy, Binghamton, N. Y. Purifier. No. 1,339,680; May 11; v. 274; p. 325.
Rod, Lars, Washington, D. C. Serving apparatus for dining-tables. No. 1,339,525; May 11; v. 274; p. 238.
Roffels, Frank J., Helena, Mont. Envelop for burning tobacco. No. 1,339,577; May 11; v. 274; p. 248.
Rogers, Howard C. (See Schroeder, Albert, assignor.)
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company, Circuit-breaker. No. 1,339,981; May 11; v. 274; p. 325.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rose, William D. (See White, John W., assignor.)
Rosenbrook, August C., Madison, Wis. Valve-tool. No. 1,339,422; May 11; v. 274; p. 218.
Rosenfeld, Mortimer C., Cleveland, Ohio. Faucet-supporting means. No. 1,339,578; May 11; v. 274; p. 249.
Rosenfeld, Sidney, Cleveland, Ohio. Faucet-supporting collar. No. 1,339,982; May 11; v. 274; p. 325.
Ross, Oscar A. (See Gerli, P., and Ross.)
Rothenberger, John W., Syracuse, Ind. Anti-mouth-breathing device. No. 1,339,865; May 11; v. 274; p. 303.
Rothwell, Robert, Kerport, and W. H. Cuttrell, Matawan, N. J., assignor to Whitall Tatum Company, New York, N. Y. Removing fins from rubber articles. No. 1,339,789; May 11; v. 274; p. 289.
Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Internal-combustion engine. No. 1,339,423; May 11; v. 274; p. 219.
Rowntree, Harold, Kenilworth, assignor to National Pneumatic Company, Chicago, Ill. Power-operated mechanism for moving doors or the like. No. 1,339,671; May 11; v. 274; p. 267.
Rubin, Samuel. (See Page, Adolphus L., assignor.)
Ruhl, George W., assignor of one-half to E. Killman, Barnes, Kans. Direction-indicator. No. 1,340,082; May 11; v. 274; p. 344.
Runge, William H., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Relieving attachment for lathes and the like. No. 1,339,983; May 11; v. 274; p. 325.
Runge, William H., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Micrometer-gage or stop device for lathes or the like. No. 1,339,984; May 11; v. 274; p. 326.
Runyan, Benjamin F., assignor of one-half to J. O. Decuir, Houston, Tex. Crude-oil burner. No. 1,339,579; May 11; v. 274; p. 249.
Runyan, Benjamin F., Houston, Tex. Combustion-gas and crude-oil burner. No. 1,339,580; May 11; v. 274; p. 249.
Sabbag, Litfallah G., assignor of one-half to M. A. Metcalf, Boston, Mass. Shedding-motion for looms. No. 1,339,716; May 11; v. 274; p. 275.
Safety Car Heating & Lighting Company. (See Schepmoes, Lindsley, assignor.)
Salladay, Isaiah R., Ainsworth, Iowa. Door-hanger. No. 1,339,790; May 11; v. 274; p. 289.
Saltmarsh, Thomas W., and H. F. Gonzalez, Pensacola, Fla. Adjustable flag-holder. No. 1,339,833; May 11; v. 274; p. 297.
Sanger, Charles, Bay St. Louis, Miss. Salvaging apparatus. No. 1,339,717; May 11; v. 274; p. 276.
Sanowski, Walter, Carnegie, Pa. Rail-fastener. No. 1,339,718; May 11; v. 274; p. 276.
Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Pulling and lifting device. No. 1,339,581; May 11; v. 274; p. 249.
Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Jack. No. 1,339,582; May 11; v. 274; p. 249.
Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Jack. No. 1,339,583; May 11; v. 274; p. 249.
Sargent Company. (See Garren, George S., assignor.)
Sargent & Company. (See Shaw, John H., assignor.)
Saunderson, Herbert P., Bedford, England. Change-speed gearing. No. 1,339,477; May 11; v. 274; p. 230.
Savidge, Albert C., and F. D. Hatfield, Indianapolis, Ind. Valve-lathe. No. 1,339,791; May 11; v. 274; p. 289.
Savonius, Sigurd, Helsingfors, Finland. Apparatus for melting snow and the like. No. 1,339,719; May 11; v. 274; p. 276.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Carrier-bearing. No. 1,339,476; May 11; v. 274; p. 229.
Scarbrough, Levi, Weldon, Ill. Grappling-tool. No. 1,340,083; May 11; v. 274; p. 374.
Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,339,478; May 11; v. 274; p. 230.
Schatz, Grover H., *et al.* (See Schatz, John W., assignor.)
Schatz, Herman, A., *et al.* (See Schatz, John W., assignor.)
Schatz, John W., assignor of one-third to H. A. Schatz and one-third to G. H. Schatz, Poughkeepsie, N. Y. Manufacture of so-called "cup-rings" for antifriction-bearings. No. 1,339,672; May 11; v. 274; p. 267.
Schepmoes, Lindsley, Hasbronck Heights, N. J., assignor to Safety Car Heating & Lighting Company. Lamp construction. No. 1,339,985; May 11; v. 274; p. 326.
Schmidt, Charles D., Woodhaven, N. Y. Hook for use with chains. No. 1,339,986; May 11; v. 274; p. 326.
Schmidt, John C., Chicago, Ill. Door-checks. No. 1,339,479; May 11; v. 274; p. 230.
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Separating suspended particles from gases. No. 1,339,480; May 11; v. 274; p. 230.
Schneider, Hugo, New York, N. Y. Toilet article. No. 1,339,673; May 11; v. 274; p. 267.
Schreier, Herman. (See Downey, Richard F., assignor.)
Schroeder, Albert, Piqua, assignor of one-half to H. C. Rogers, Columbus, Ohio. Street-sweeping machine. No. 1,340,133; May 11; v. 274; p. 254.
Schroeder, Charles, Neillsville, Wis. Spring-trap. No. 1,339,481; May 11; v. 274; p. 230.
Schubert, William W., Chicago, Ill. Timer. No. 1,340,121; May 11; v. 274; p. 352.
Schwartzkopf, Jacob, Hailey, Wyo. Harvester attachment. No. 1,339,627; May 11; v. 274; p. 258.
Schweizer, Eugene J. (See Brandt, Charles D., assignor.)
Schworm, Clarence W., assignor to The Massillon Wire Basket Co., Massillon, Ohio. Bucket-ear. No. 1,339,584; May 11; v. 274; p. 250.
Scott, David J., *et al.* (See Scott, D. J., and Drange, assignors.)
Scott, David J., and C. E. Drange, Plainfield, N. J., assignors to I. Scott, and D. J. Scott, executors. Printing-machine. No. 1,339,526; May 11; v. 274; p. 239.
Scott, Francis E., *et al.* (See Otto, A., and W., assignors.)
Scott, Isabella, *et al.*, executors. (See Scott, D. J., and Drange, assignors.)
Seal-Tite Piston Ring Company. (See Fosston, Axel A., assignor.)
Sederburg, Henry O., East Mill Creek, Pa. Scaffold-bracket. No. 1,339,482; May 11; v. 274; p. 231.
Seeley, Leonard E., assignor of one-half to T. F. Callely, Wellington, Ohio. Electrolytic alternating-current chemical-rectifier. No. 1,339,907; May 11; v. 274; p. 311.
Seifert, John W., Houston, Tex. Closure for Refrigerators and the like. No. 1,340,084; May 11; v. 274; p. 344.
Selah, Howard A., assignor of one-half to Albert C. Pedrick, Newark, N. J. Automatic ballast-shifting device. No. 1,339,628; May 11; v. 274; p. 259.
Selby, Paul. (See Nettle, W. E., Selby, Blyth, and Holman.)
Seneca Falls Manufacturing Co., The. (See Runge, William H., assignor.)
Sera, Ryumatsu, Banning, Calif. Bean-harvesting machine. No. 1,339,674; May 11; v. 274; p. 268.
Shafer, Francis M., Moab, Utah. Daling-stamp. No. 1,340,122; May 11; v. 274; p. 352.
Shaver, Archibald G., Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y. Brake-pipe valve. No. 1,339,720; May 11; v. 274; p. 276.
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,339,721; May 11; v. 274; p. 276.
Siebring, Claude, George, Iowa. Portable hog-fountain. No. 1,340,085; May 11; v. 274; p. 344.

Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer, Manufacturing Company, The. (See Corrall, H., and Heggie, assignors.)
Singer Manufacturing Company, The. (See Hieb, Peter, assignor.)
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Skinner, Allan D., Erie, Pa. Steam-heated piston. No. 1,339,629; May 11; v. 274; p. 259.
Skinner, Le Grand, Erie, Pa. Steam-engine. No. 1,339,630; May 11; v. 274; p. 259.
Simpson, William G., Detroit, Mich. Hydrocarbon or gasolene turbine-motor. No. 1,339,483; May 11; v. 274; p. 231.
Sleppy, E. M. (See Roche, John W., assignor.)
Sloan, James W., Tulsa, Okla. Blank for manufacture of baller-bottoms. No. 1,339,722; May 11; v. 274; p. 277.
Sloan, William E., Chicago, Ill. Closet-seat device. No. 1,339,585; May 11; v. 274; p. 250.
Slocum, Avram & Slocum Laboratories. (See Burchett, Walter J., assignor.)
Slocum Laboratories. (See Avram, Mols H., assignor.)
Smallwood, Alfred, Highgate, London, England. Furnace for the annealing, hardening, quenching, or like heat treatment of metals and the like. No. 1,339,424; May 11; v. 274; p. 219.
Smith, A. O. Corporation. (See Miller, Henry, assignor.)
Smith, Amzy L. (See Myers, W. S., and Smith.)
Smith, Evelina P., Chicago, Ill. Couch. No. 1,339,608; May 11; v. 274; p. 255.
Smith, George H. (See Dunbar, H. W., Turner, and Smith.)
Smith, Grant E., assignor to Pouvallsmith Corporation, Poughkeepsie, N. Y. Steering-post bearing. No. 1,339,987; May 11; v. 274; p. 326.
Smith, Henry, assignor of one-half to J. E. Bridgers, Richmond, Va. Key-ring attachment. No. 1,339,631; May 11; v. 274; p. 259.
Smith, Joseph H., assignor to W. J. Platt, Oakland, Calif. Rotary pump. No. 1,339,723; May 11; v. 274; p. 277.
Smith, Oliver A., Seattle, Wash. Milk-bottle hanger. No. 1,339,792; May 11; v. 274; p. 289.
Smith, Reuben S., assignor, by mesne assignments, to Briggs and Stratton Company, Milwaukee, Wis. Carbureter. No. 1,340,123; May 11; v. 274; p. 252.
Smith, Virgil L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transformer. No. 1,339,793; May 11; v. 274; p. 290.
Smith, William H., Falkirk, assignor to The Filbar Electric Heater, Limited, London, England. Liquid-operated electric switch. No. 1,340,086; May 11; v. 274; p. 344.
Snelling, Walter O., Allentown, Pa. Photochemical apparatus. No. 1,339,675; May 11; v. 274; p. 268.
Sollaway, Stephen P., Wilmington, Del. Waterproofing composition and making and using same. No. 1,339,724; May 11; v. 274; p. 277.
Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carrier and producing same. No. 1,339,794; May 11; v. 274; p. 290.
Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carried and producing same. No. 1,339,795; May 11; v. 274; p. 290.
Sperling, Leopold N., and C. J. Harris, Youngstown, Ohio; said Harris, assignor to said Sperling. Collapsible screen for baby-carriages. No. 1,339,527; May 11; v. 274; p. 239.
Speth, Charlie, Palmyra, Nebr. Road-grader. No. No. 1,339,866; May 11; v. 274; p. 304.
Squassi, Alessandro. (See Cortese, E., Crespi, and Squassi.)
Standard Parts Company, The. (See Utz, John G., assignor.)
Starkweather, George A., Fort Madison, Iowa. Shock-absorber. No. 1,339,484; May 11; v. 274; p. 231.
Stefanlak, Stanley. (See Velchansky, J. A., and Stefaniak.)
Steinbauer, Edwin O., Niles, Mich. Priming attachment for internal-combustion engines. No. 1,340,087; May 11; v. 274; p. 345.
Steinberger, Louis, Brooklyn, N. Y. Insulating-collector or distributer-spool. No. 1,339,988; May 11; v. 274; p. 326.
Stender, William, Milwaukee, Wis. Bottle-feeding mechanism for annealing-ovens. No. 1,339,834; May 11; v. 274; p. 297.
Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Bowling-alley. No. 1,339,425; May 11; v. 274; p. 219.
Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)
Stevenson, Cecil V., Sydney, and H. Burgess, Paddington, New South Wales, Australia; said Burgess assignor to said Stevenson. Electric radiator. No. 1,339,935; May 11; v. 274; p. 317.
Stewart, James G., Minneapolis, Minn. Bundle-carrier attachment for binders. No. 1,340,088; May 11; v. 271; p. 345.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined adding and typewriting machine. No. 1,339,796; May 11; v. 274; p. 290.
Stinson, Charles H., Superior, Wis., assignor to Stinson Tractor Company. Dust-collector for carbureters. No. 1,339,609; May 11; v. 274; p. 255.
Stinson Tractor Company. (See Stinson, Charles H., assignor.)
Stoke, Josiah W., Peniel, Tex. Tool-holding implement. No. 1,339,725; May 11; v. 274; p. 277.
Stone, Arthur S., Brooklyn, N. Y. Removable bridge for dental work. No. 1,340,089; May 11; v. 274; p. 345.
Storz, Charles R., Brooklyn, N. Y. Scissors. No. 1,339,797; May 11; v. 274; p. 290.
Stowe, John F., Lincoln, Nebr. Automatically-releasing clutch. No. 1,340,124; May 11; v. 274; p. 253.
Stranahan, Samuel A., Flint, Mich., assignor to General Motors Corporation, Detroit, Mich. Gasolene-tank-filler cap. No. 1,339,485; May 11; v. 274; p. 231.
Straus, Alexander L., assignor to Baltimore Process Company, Baltimore, Md. Composition of matter. No. 1,339,528; May 11; v. 274; p. 239.
Strickland, Dewitt W., assignor of one-eighth to W. H. Brumfield, one-fourth to G. W. Summerall, and one-eighth to J. W. Sullivan, Tylertown, Miss. Trigger for double-barrel guns. No. 1,339,867; May 11; v. 274; p. 304.
Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Organized-wheel structure. No. 1,339,676; May 11; v. 274; p. 268.
Stroud, William. (See Barr, A., and Stroud.)
Stuart, Francis L., Greenwich, Conn. Conveyer system. No. 1,339,486; May 11; v. 274; p. 231.
Sturgis Steel Go-Cart Co. (See Lindberg, Charles A., assignor.)
Subers, Lawrence A., Lakewood, Ohio. Tire having a reserve of expansibility. No. 1,339,868; May 11; v. 274; p. 304.
Subers, Lawrence A., Lakewood, Ohio. Laminated cohesive interwound fabric band. No. 1,339,869; May 11; v. 274; p. 304.
Sullivan, J. W., *et al.* (See Strickland, Dewitt W., assignor.)
Summerall, G. W., *et al.* (See Strickland, Dewitt W., assignor.)
Swarens, John F., Kansas City, Mo. Air-filter for automatic engines. No. 1,339,726; May 11; v. 274; p. 277.
Sweet, Meachem D., Alliance, Ohio. Celluloid insulation. No. 1,339,835; May 11; v. 274; p. 298.
Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Throttle-valve handle for pneumatic drills, holders-on, and other appliances. No. 1,339,426; May 11; v. 274; p. 219.
Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Connecting means for pistons and piston-rods. No. 1,339,427; May 11; v. 274; 219.
Tankins, Sacramenta G., Atlantic City, N. J. Comb. No. 1,339,632; May 11; v. 274; p. 259.
Taylor, John S., Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America. Internal-combustion engine. No. 1,339,870; May 11; v. 274; p. 304.
Taylor, Silas P., assignor to Tennessee Implement Sales Co., Loretto, Tenn. Fender. No. 1,339,586; May 11; v. 274; p. 250.
Tennessee Implement Sales Co. (See Taylor, Silas P., assignor.)
Textile Machine Works. (See Airhart, Lewis, assignor.)
Textile Machine Works. (See Janssen, Henry, assignor.)
Thayer, Joseph E., West Bridgewater, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Inseam shoe-sewing machine. No. 1,339,633; May 11; v. 274; p. 259.
Thompson, George W., Cheboygan, Mich. Valve. No. 1,339,798; May 11; v. 274; p. 290.
Thompson, J. D., administrator. (See Thompson, William H.)
Thompson, Orville W., Chicago, Ill. Gage. No. 1,339,989; May 11; v. 274; p. 327.
Thompson, William H., deceased, Memphis, Tenn.; J. D. Thompson, administrator, assignor, by mesne assignments, to R. T. Van Riper, Dallas, Tex. Prepay time-controlled-service apparatus. No. 1,339,634; May 11; v. 274; p. 260.
Thomson, Electric Welding Company. (See Von Henke, Edmund J., assignor.)
Thorell, Swan O., Denver, Colo. Foldable square. No. 1,340,125; May 11; v. 274; p. 353.
Thorpe, Herbert R., Holyoke, Mass. Stationery-package. No. 1,339,908; May 11; v. 274; p. 311.
Thring, Theodore, *et al.* (See Forse, Lyndall, assignor.)
Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulators. No. 1,339,936; May 11; v. 274; p. 317.
Toledo Scale Company. (See Dunn, Frank P., assignor.)
Toll, Herman H., assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Driving mechanism for power washing-machines. No. 1,339,587; May 11; v. 274; p. 250.
Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Combination washing-machine. No. 1,339,588; May 11; v. 274; p. 251.

Torkin, William R., Bisbee, Ariz. Vehicle-signal. No. 1,339,589; May 11; v. 274; p. 251.

Townsend, Arthur J. (See Kinnear, H. B., and Townsend.)

Tracy, Angie M., Ryan, Iowa. Flue-stopper. No. 1,340,090; May 11; v. 274; p. 345.

Trane, Reuben N., La Crosse, Wis. Centrifugal pump. No. 1,340,091; May 11; v. 274; p. 345.

Trembour, Max R., Watervliet, assignor, by mesne assignments, to Ludlum Electric Furnace Corporation, Albany, N. Y. Operating an electric furnace. No. 1,339,428; May 11; v. 274; p. 220.

Tripolitis, Themlos, Cleveland, Ohio. Dispensing apparatus. No. 1,339,635; May 11; v. 274; p. 260.

Troy, Matthew O., Pittsfield, Mass., assignor to General Electric Company. Production of core lamination-sections. No. 1,339,990; May 11; v. 274; p. 327.

Truesdell, George L., Redwood Falls, Minn. Spark-plug. No. 1,339,429; May 11; v. 274; p. 220.

Tretter, Joseph W., Birmingham, Ala. Manufacture of gasolene. No. 1,339,727; May 11; v. 274; p. 277.

Tulloch, Thomas G., Westminster, London, England. Fluid-tight joints for steam-pipes and the like. No. 1,339,636; May 11; v. 274; p. 260.

Turnbull, Charles W., and J. H. Fox, Albert Lea, Minn. Vapor-oil burner. No. 1,340,038; May 11; v. 274; p. 336.

Turner, Albert. (See Dunbar, H. W., Turner, and Smith.)

Turner, Albert. (See Norton, C. H., Turner, and Wilcox, Jr.)

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic speed-control equipment. No. 1,339,677; May 11; v. 274; p. 268.

Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Combined vacuum and compressed-air brake. No. 1,339,678; May 11; v. 274; p. 268.

Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. No. 1,339,679; May 11; v. 274; p. 268.

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Remote-control brake equipment. No. 1,339,680; May 11; v. 274; p. 269.

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Co., Wilmerding, Pa. Electropneumatic brake. No. 1,339,681; May 11; v. 274; p. 269.

Tüscher, Adolf, Jr., Zurich, Switzerland. Pipe-wrench. No. 1,340,092; May 11; v. 274; p. 345.

Tybout, Richard R., assignor to Guano & Raggio, Inc., Philadelphia, Pa. Dough-compressor. No. 1,339,637; May 11; v. 274; p. 260.

Tyrer, Thomas, deceased; P. H. Chambers and G. T. Feasey, executors, London, England. Production of cellulose acetate solutions. No. 1,339,728; May 11; v. 274; p. 277.

U. S. Industrial Alcohol Company. (See Backhaus, Arthur A., assignor.)

U. S. Slicing Machine Company. (See Van Berkel, Cornelis, F. M., assignor.)

Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)

Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)

Underwood Computing Machine Company. (See Waldheim, John, assignor.)

Underwood Typewriter Company. (See Burridge, Lee S., assignor.)

Uni-Form Company. (See Ambursen, Nils F., assignor.)

Union Carbide Company. (See Curme, Henry R., assignor.)

Union Railway Equipment Co., The. (See O'Connor, Arthur F., assignor.)

Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)

Union Tractor Company. (See Porter, J. W., and Arndt, assignors.)

United Electric Company, The. (See Beardsley, Charles S., assignor.)

United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)

United Shoe Machinery Corporation. (See Thayer, Joseph E., assignor.)

Ustrzycki, Stanislaw, and J. Bukola, Chicago, Ill. Plunger. No. 1,340,126; May 11; v. 274; p. 353.

Utes, William C., *et al.* (See Maltz, Meyer, assignor.)

Utica Valve and Fixture Company. (See Harris, George H., assignor.)

Utz, John G., assignor to The Standard Parts Company, Cleveland, Ohio. Bearing. No. 1,339,991; May 11; v. 274; p. 327.

Van Berkel, Cornelis F. M., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,339,590; May 11; v. 274; p. 251.

Van Camp, John, Long Beach, assignor of one-half to J. E. Owen, Venice, Calif. Amusement device. No. 1,339,871; May 11; v. 274; p. 304.

Van Riper, Richard T. (See Thompson, William H., assignor.)

Velchansky, John A., and S. Stefaniak, Hamtramck, Mich. Pick. No. 1,339,638; May 11; v. 274; p. 260.

Verhoogen, Gustave, Brussels, Belgium. Manufacture of hard toe-blocks and the like for footwear. No. 1,339,529; May 11; v. 274; p. 239.

Vernon, Percy V., Coventry, England. Lathe or like machine. No. 1,339,836; May 11; v. 274; p. 298.

Vernon, Percy V., Keresley, England. Bed for machine-tools. No. 1,339,837; May 11; v. 274; p. 298.

Vickers, Limited. (See McKechnie, James, assignor.)

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,530; May 11; v. 274; p. 239.

Vinograd, Eliezer, and M. Grofen, New York, N. Y. Car-coupling. No. 1,339,487; May 11; v. 274; p. 231.

Voight, Frederick E., Grand Haven, Mich. Device for gaging tapering bodies. No. 1,339,639; May 11; v. 274; p. 261.

Vom Eigen, Benno, Newark, N. J., assignor to August Goertz & Co. Bag-frame and hinge connection therefor. No. 1,339,799; May 11; v. 274; p. 291.

Von Henke, Edmond J., Milwaukee, Wis., assignor to Thomson Electric Welding Company, Lynn, Mass. Weld-testing device for chains. No. 1,339,610; May 11; v. 274; p. 255.

Wais, Charles C., Cincinnati, Ohio. Ball and making same. No. 1,339,992; May 11; v. 274; p. 327.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,339,993; May 11; v. 274; p. 327.

Wales Adding Machine Company. (See Birth, Charles, assignor.)

Walker, Albert D. C. (See Johnson, H., and Walker.)

Walkup, Vincent A., Apache, Okla. Resilient wheel. No. 1,339,800; May 11; v. 274; p. 291.

Wallen, Earl S., Lansford, assignor, by mesne assignments, to Coxe Traveling Grate Company, Hazleton, Pa. Mechanical stoker. No. 1,339,531; May 11; v. 274; p. 240.

Walsh, Joseph P., Vancouver, British Columbia, Canada. Wood-refuse burner. No. 1,339,729; May 11; v. 274; p. 278.

Warner Gear Company. (See White, Samuel O., assignor.)

Warner, William L. (See Reichel, L. J., and Warner.)

Warshauer, Alexander, Cambridge, Mass. Blotting attachment for check-books, &c. No. 1,339,937; May 11; v. 274; p. 317.

Weiss, Howard F., Madison, Wis., assignor to C. F. Burgess Laboratories. Fireproofing wood. No. 1,339,488; May 11; v. 274; p. 232.

Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Recovery of organic products from wood. No. 1,339,489; May 11; v. 274; p. 232.

Welin, Axel, London, England, assignor to American Balsa Company, Inc. Mechanism for turning ships' davits. No. 1,339,532; May 11; v. 274; p. 240.

Welch, Herman L., El Centro, Calif. Pistol. No. 1,340,127; May 11; v. 274; p. 353.

Western Electric Company. (See Egerton, Henry C., assignor.)

Western Electric Company. (See Helsing, Raymond A., assignor.)

Western Electric Company. (See Miller, Daniel D., assignor.)

Western Electric Company. (See Pollnkowsky, Lipa, assignor.)

Western Electric Co. (See Smith, Virgil L., assignor.)

Westhafer, James S., Braman, Okla. Toothbrush. No. 1,340,093; May 11; v. 274; p. 346.

Westinghouse Air Brake Company, The. (See Turner, Walter V., asignor.)

Westinghouse Electric and Manufacturing Company. (See Clarke, John A., Jr., assignor.)

Westinghouse Electric and Manufacturing Company. (See Deutsch, Isidor, assignor.)

Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)

Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)

Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)

Westinghouse Electric and Manufacturing Company. (See Kenney, James R., assignor.)

Westinghouse Electric and Manufacturing Company. (See Lewis, Harry A.)

Westinghouse Electric and Manufacturing Company. (See MacGahan, Paul, assignor.)

Westinghouse Electric and Manufacturing Company. (See Meyer, Friedrich W., assignor.)

Westinghouse Electric and Manufacturing Company. (See Pukerud, Thomas S., assignor.)

Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)

Westinghouse Electric and Manufacturing Company. (See Yardley, John L. M., assignor.)

Westling, Herman, Hudson, Mass. Overshoe. No. 1,339,994; May 11; v. 274; p. 327.

Westgard, Anton, Tacoma, Wash. Saw-tooth. No. 1,340,128; May 11; v. 274; p. 353.

Wetherill, Roy, Kansas City, Mo. Signal device for automobiles. No. 1,339,938; May 11; v. 274; p. 317.

Wheary, George H., Racine, Wis. Trunk-wardrobe-section protector. No. 1,339,533; May 11; v. 274; p. 240.

Wheary, George H., Racine, Wis. Combined trunk-collar and track. No. 1,339,534; May 11; v. 274; p. 240.

Wheeler, Joseph C. (See Pace, Carl D., assignor.)

Whistler, George F. (See Bolger, Robert S., assignor.)

Whitall Tatum Company. (See Rothwell R., and Cuttrell, assignors.)

White, Frank O., Belleville, Ill. Ventilated upholstered furniture. No. 1,339,611; May 11; v. 274; p. 255.

White, Frederick M., and H. E. Rieger, San Diego, Calif. Apparatus for covering submerged piles with concrete. No. 1,339,535; May 11; v. 274; p. 240.

White, James R., Fort Wayne, Ind. Egg-case. No. 1,339,430; May 11; v. 274; p. 220.

White, John W., assignor of one-half to W. D. Rose, Lewistown, Mont. Sectional wheel-rim. No. 1,340,094; May 11; v. 274; p. 346.

White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Clutch. No. 1,339,801; May 11; v. 274; p. 291.

White, William M., and A. Gauslin, Trona, Calif. Leaf-spring oiler. No. 1,339,872; May 11; v. 274; p. 305.

Whitted, John L., Long Island, Kans. Clothespin. No. 1,340,095; May 11; v. 274; p. 346.

Whitten, Stahl A. (See Ballman, Edwin C., assignor.)

Wilcox, Joseph S., Jr. (See Norton, C. H., Turner and Wilcox, Jr.)

Wilkins, John W., Battle Creek, Mich. Automobile-tool. No. 1,339,612; May 11; v. 274; p. 255.

Willems, Henry J., Kenosha, Wis. Spring fabric. No. 1,339,802; May 11; v. 274; p. 291.

Willey, Josiah F., Wichita, Kans. Jack. No. 1,339,613; May 11; v. 274; p. 256.

Williams, Earl B., Los Angeles, Calif. Audible theft-alarm signal for automobiles. No. 1,339,873; May 11; v. 274; p. 305.

Williams, Enoch L., Marshalltown, Iowa. Milling-machine. No. 1,339,490; May 11; v. 274; p. 232.

Williams, George T., Oakland, Calif. Combustion-engine of the rotary type. No. 1,339,730; May 11; v. 274; p. 278.

Williams, John, Liverpool, England. Dental plate or denture. No. 1,339,640; May 11; v. 274; p. 261.

Williams, William, Gilwern, Wales. Apparatus for manipulating ingots, bars, and the like in rolling-mills. No. 1,340,129; May 11; v. 274; p. 354.

Williams, Winfield, San Jose, Calif. Revolving teeter-board. No. 1,339,536; May 11; v. 274; p. 241.

Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,339,731; May 11; v. 274; p. 278.

Willson, T. A., & Co., Inc. (See Willson, Frederick, assignor.)

Wilmarth & Morman Company. (See Gorham, Edwin T., assignor.)

Wilmot, George, Linwood, Mass. Record-form. No. 1,339,995; May 11; v. 274; p. 328.

Wilson, C. R. (See Myers, W. S., and Smith, assignors.)

Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Light for vehicle-curtains. No. 1,339,858; May 11; v. 274; p. 298.

Windle, Randolph T., New York, N. Y. Pump. No. 1,340,130; May 11; v. 274; p. 354.

Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulating system. No. 1,339,996; May 11; v. 274; p. 328.

Winters, John H., Adams, Tenn. Hog-feeder. No. 1,340,096; May 11; v. 274; p. 346.

Winther Motor Truck Company. (See Downing, Virgil L., assignor.)

Winton, Alexander, Lakewood, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio. Cam-shaft structure and oiling mechanism for internal-combustion motors. No. 1,339,839; May 11; v. 274; p. 298.

Winton Gas Engine & Manufacturing Company, The. (See Winton, Alexander, assignor.)

Wisegarver, Marion O., Umbarger, Tex. Milk-can cover. No. 1,340,097; May 11; v. 274; p. 347.

Wiselogel, James J., Detroit, assignor to National Spring & Wire Company, Albion, Mich. Cushion-seat. No. 1,339,537; May 11; v. 274; p. 241.

Woken, Elfon P., Northwood, N. D. Flash-absorber for machine-guns. No. 1,339,614; May 11; v. 274; p. 256.

Wollenhaupt, Justin J. (See Doyle, W. J., and Wollenhaupt.)

Wolny, Joseph, Carneyville, Wyo. Beet-machine. No. 1,339,874; May 11; v. 274; p. 305.

Wood, Albert B., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to G. G. Earl, New Orleans, La. Fluid-measuring device. No. 1,339,909; May 11; v. 274; p. 311.

Wood, Albert B., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to G. G. Earl, New Orleans, La. Fluid-measuring device. No. 1,339,997; May 11; v. 274; p. 328.

Woodyard, Guy L. (See Brown, William H., assignor.)

Woodyard, Guy L., San Diego, Calif. Spring-oiler. No. 1,339,538; May 11; v. 274; p. 241.

Wright, Daniel K., Paterson, N. J., assignor to General Electric Company. Shaped filament. No. 1,339,998; May 11; v. 274; p. 328.

Wright, John F., Damon, Tex. Pipe-cutter. No. 1,339,641; May 11; v. 274; p. 261.

Wundrack, Otto, Maywood, Ill. Flat arch for furnaces. No. 1,339,615; May 11; v. 274; p. 256.

Wundrack, Otto, assignor to Petersen Oven Company, Chicago, Ill. Multiple baker's oven. No. 1,339,616; May 11; v. 274; p. 256.

Yardley, John L. M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,339,910; May 11; v. 274; p. 312.

Zamecnik, Frank, Washington, D. C. Musical instrument. No. 1,340,098; May 11; v. 274; p. 347.

Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Box-operating mechanism. No. 1,339,999; May 11; v. 274; p. 328.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Abolin, Harry T., Woodridge, N. J., assignor to Witcombe McGeachin & Co., New York, N. Y. Article of manufacture. No. 55,108; May 11; v. 274; p. 356.

Ainsworth, Albert, Swarthmore, assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,109–12. May 11; v. 274; p. 356.

Ajax Rubber Company. (See Kraft, Emil J., assignor.)

Allard, Edwin R., Athol, Mass. Label. No. 55,113; May 11; v. 274; p. 357.

American Cement Products Company. (See Landwehr, Henry A., assignor.)

American Metal Cap Company. (See Hammer, Charles, assignor.)

Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)

Barney, James E., New York, assignor to Pioneer Products, Incorporated, Malone, N. Y. Rubber sole-pad for boots and shoes. Nos. 55,114–16; May 11; v. 274; p. 357.

Becker, Smith & Page. (See Ainsworth, Albert, assignor.)

Becker, Smith & Page. (See Roehlin, William F., assignor.)

Belz, Edward P., Athens, Wis. Chain-trace link. No. 55,117; May 11; v. 274; p. 357.

Cluett, Peabody & Co. (See Hurd, Hubbard F., assignor.)

Duersten, William E., New Castle, Pa. Non-skid tire. Nos. 55,118–19; May 11; v. 274; p. 357.

Dulczewski, Sigmund A., Buffalo, N. Y. Clock-case. No. 55,120. May 11; v. 274; p. 358.

Earl, Charles M., Detroit, Mich. Beverage-dispensing device. No. 55,121; May 11; v. 274; p. 358.

Empire Tire & Rubber Corporation. (See Seabridge, William, assignor.)

Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile-tire. No. 55,122; May 11; v. 274; p. 358.

Haddix, James P., Crawford, Nebr. Combined pocket-knife and bottle-opener. No. 55,123; May 11; v. 274; p. 358.

Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Sprinkler head or similar article. No. 55,124; May 11; v. 274; p. 359.

Hammer, Charles, assignor to American Metal Cap Company, Queens, N. Y. Bottle-cap. No. 55,125; May 11; v. 274; p. 359.

Hasel, Leo, San Francisco, Calif. Shoe-plate. No. 55,126; May 11; v. 274; p. 359.

Hess, Herman, Baltimore, Md. Heel. No. 55,127; May 11; v. 274; p. 359.

Hurd, Hubbard F., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Fold-collar. No. 55,128; May 11; v. 274; p. 359.

Koken, Walter F., St. Louis, Mo. Towel-urn. No. 55,129; May 11; v. 274; p. 359.

Koken, Walter F., st. Louis, Mo. Cuspidor. No. 55,130; May 11; v. 274; p. 360.

Knott, Henry, Boston, Mass., assignor to The R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon, fork, or similar article. No. 55,131; May 11; v. 274; p. 360.

Kraft, Emil J., Racine, Wis., assignor to Ajax Rubber Company, Inc., New York, N. Y. Tire. No. 55,132; May 11; v. 274; p. 360.

Kumler, Harry F., and I. K. Rystedt, assignors to The Modern Comb and Device Company, Dayton, Ohio. Shell for a spark-plug. No. 55,133; May 11; v. 274; p. 360.

Landwehr, Henry A., assignor to American Cement Products Company, Los Angeles, Calif. Post. No. 55,134; May 11; v. 274; p. 360.

McGreevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch case and bow. No. 55,136; May 11; v. 274; p. 361.

Maxwell, John S., Richmond, Ind. Balloon-valve. No. 55,135; May 11; v. 274; p. 361.
Miller, Morris S., Cleveland, Ohio. Hand-stamp. No. 55,137; May 11; v. 274; p. 361.
Modern Comb and Device Company, The. (See Kumler, H. F., and Rystedt, assignors.)
Pioneer Products, Incorporated. (See Barney, James E., assignor.)
Rieg, Bernard E., and E. B. Williams, Los Angeles, Calif. Statuette. No. 55,138; May 11; v. 274; p. 361.
Roehlin, William F., Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,139; May 11; v. 274; p. 361.
Rotary Tire and Rubber Company, The. (See Sterns, Edward O., assignor.)
Rystedt, Ingemar K. (See Kumler, H. F., and Rystedt.)
Seabridge, William, assignor to Empire Tire & Rubber Corporation, Trenton, N. J. Tire. No. 55,140; May 11; v. 274; p. 362.
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
Standard Four Tire Company. (See Gabeline, Jacob B., assignor.)
Standard Tire Company, The. (See Tinsman, Edgar A., assignor.)
Sterns, Edward O., Columbus, assignor to The Rotary Tire and Rubber Company, Zanesville, Ohio, Pneumatic tire. No. 55,141; May 11; v. 274; p. 362.
Tinsman, Edgar A., assignor to The Standard Tire Company, Willoughby, Ohio. Tire. No. 55,142; May 11; v. 274; p. 362.
Wallace, R., & Sons Manufacturing Company, The. (See Knott, Henry, assignor.)
Wiersching, Edward H. and E. K., Binghamton, N. Y. Toothbrush-casing. No. 55,143; May 11; v. 274; p. 362.
Wiersching, Edward K. (See Wiersching, Edward H. and E. K.)
Williams, Earl B. (See Rieg, B. E., and Williams.)
Witcombe McGeachin & Co. (See Abolin, Harry T., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams, Eva, Sparta, Ill. Hair-tonics and hair-straighteners. No. 131,277; May 11; v. 274; p. 399.
American Locomotive Company, Schenectady, and New York, N. Y. Steam-engine reverse-gear. No. 131,278; May 11; v. 274; p. 399.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 131,279; May 11; v. 274; p. 399.
Bauer Chemical Co. Inc., New Orleans, La. Corn medicine and foot-powder. No. 131,280; May 11; v. 274; p. 399.
Beall, Edward, Los Angeles, Calif. Combination of herbs for use in the treatment of certain named diseases. No. 131,281; May 11; v. 274; p. 399.
Beaver Machine & Tool Co., Inc., Newark, N. J. Milking-machines. No. 131,282; May 11; v. 274; p. 399.
Beich, Paul F., Company, Bloomington, Ill. Salted peanuts and topping for sundaes, &c. No. 131,283; May 11; v. 274; p. 399.
Belding Bros. & Co., New York, N. Y. Silks and satins in the piece. No. 131,284; May 11; v. 274; p. 399.
Birk Brothers Brewing Company, Chicago, Ill. Non-intoxicating beverage. No. 131,285; May 11; v. 274; p. 399.
Borden Company, The, Warren Ohio. Diestocks, hand pipe-cutters, &c. No. 131,286; May 11; v. 274; p. 399.
Brach, E. J., and Sons, Chicago, Ill. Candies. No. 131,287; May 11; v. 274; p. 399.
Burlasky, Louis, New York, N. Y. Sewing-machines and parts thereof. No. 131,288; May 11; v. 274; p. 399.
Case, J. I., Threshing Machine Company, Racine, Mich. Machinery. No. 131,289; May 11; v. 274; p. 399.
Chicago Steel Post Company, Chicago, Ill. Metallic fence posts. No. 131,290; May 11; v. 274; p. 399.
Coal Conservation Company, Boston, Mass. Substance for treating coal. No. 131,291; May 11; v. 274; p. 399.
Collinsville Zinc Corporation, Collinsville, Ill. Sulfuric acid. No. 131,292; May 11; v. 274; p. 399.
Connery, Edwin E., Minneapolis, Minn. Fresh fruit in packages and barrels. No. 131,293; May 11; v. 274; p. 399.
Corrasanti Chemical Co. Inc., Newark, N. J. Boiler compounds. No. 131,294; May 11; v. 274; p. 399.
Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables. No. 131,295; May 11; v. 274; p. 399.
Davis, Elroy R., Paris, Me. Bolt-hooks and ice-tongs. No. 131,296; May 11; v. 274; p. 399.
Denny and Denny, Philadelphia, Pa. Perfumes, toilet waters, face-powders, &c. No. 131,297; May 11; v. 274; p. 399.
Disston, Henry, & Sons, Philadelphia, Pa. Magneto-files and tools for cleaning spark-plugs. No. 131,298; May 11; v. 274; p. 399.
Di-Testa Co., New Haven, Conn. Salve for scalp maladies. No. 131,299; May 11; v. 274; p. 399.
Driver-Harris Company, Harrison, N. J. Wire, rods, sheets, &c., composed of metals or alloys of metals. No. 131,300; May 11; v. 274; p. 399.
Drulard, Lee, Detroit, Mich. Wrenches and socket-wrench sets. No. 131,301; May 11; v. 274; p. 399.
Duff Manufacturing Company, Pittsburgh, Pa. Drop-forged parts. No. 131,302; May 11; v. 274; p. 399.
Dumais Chemical Co., Los Angeles, Calif., and El Paso, Tex. Insecticide and germicide. No. 131,303; May 11; v. 274; p. 399.
Fairmont Creamery Company, The, Omaha, Nebr. Eggs. No. 131,305; May 11; v. 274; p. 400.
Fearless Products Manufacturing Corporation, The, Manhattan, Kans. Liquid carbon-remover. No. 131,306; May 11; v. 274; p. 400.
Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 131,307; May 11; v. 274; p. 400.
Flood, Arthur M., San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 131,308; May 11; v. 274; p. 400.
General Coffee & Tea Co., Baltimore, Md. Canned vegetables. No. 131,309; May 11; v. 274; p. 400.
Glering Bottling Company, The, Youngstown, Ohio. Cherry phosphate, birch-beer, orange-soda, &c. No. 131,310; May 11; v. 274; p. 400.
Globe Ear-Phone Company, Boston, Mass. Auricular seismographs. No. 131,311; May 11; v. 274; p. 400.
Gordon, Sewall & Co., Houston, Tex. Coffee. No. 131,312; May 11; v. 274; p. 400.
Grand Union Tea Co., Brooklyn, N. Y. Talcum powder. No. 131,313; May 11; v. 274; p. 400.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate and candies. No. 131,314; May 11; v. 274; p. 400.
Griffin Mfg. Co., The, Boston, Mass. Air-valves for automobile-tires, pneumatic cushions, &c. No. 131,315; May 11; v. 274; p. 400.
Grimes-Perry Canning Company, Grimes, Iowa. Canned vegetables. No. 131,316; May 11; v. 274; p. 400.
Hallmark Picture Corporation, New York, N. Y. Moving-picture films. No. 131,317; May 11; v. 274; p. 400.
Harriman Manufacturing Company, The, Harriman, Tenn. Cultivators, planters, and fertilizer-distributers. No. 131,318; May 11; v. 274; p. 400.
Hartmann & Fehrenbach Products Co., Wilmington, Del. Malt beverage. No. 131,319; May 11; v. 274; p. 400.
Hell, Henry, Chemical Company, St. Louis, Mo. Insecticides. No. 131,320; May 11; v. 274; p. 400.
Heucken & Burner, San Francisco, Calif. Canned condensed milk. No. 131,321; May 11; v. 274; p. 400.
Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Hammers, knives, and shingling-hatchets. No. 131,322; May 11; v. 274; p. 400.
Hogan, John R., Philadelphia, Pa. Steel. No. 131,323; May 11; v. 274; p. 400.
Home-Made Noodle Co., Philadelphia, Pa. Noodles. No. 131,324; May 11; v. 274; p. 400.
Hyland, Michael J., Rochester, N. Y. Preparations used in embalming. No. 131,325; May 11; v. 274; p. 400.
Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Malt beverage. Nos. 131,326–7; May 11; v. 274; p. 400.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Fluid-pressure-operated drilling-machines. No. 131,328; May 11; v. 274; p. 400.
Jaeger, Wm. J., New York, N. Y. Domestic cooking-boilers. No. 131,329; May 11; v. 274; p. 400.
Jetter Beverage Company, Omaha, Nebr. Cereal malt beverage. No. 131,330; May 11; v. 274; p. 400.
Jones, Leroy, Houston, Tex. Liniment for the treatment of certain named affections. No. 131,331; May 11; v. 274; p. 400.
Kalyptol Chemical Company, Newark, N. J. Preparation for the treatment of mucous-membrane disorders and diseases. No. 131,332; May 11; v. 274; p. 400.
Kelley Clarke Co., Seattle, Wash. Fruit jams. No. 131,333; May 11; v. 274; p. 400.
Kreo-Rub Chemical Co., Maryville, Tenn. Medicinal preparation for rheumatism, backache, lumbago, &c. No. 131,334; May 11; v. 274; p. 400.
Lamle Chemical Company, Huntington, W. Va. Dyes. No. 131,335; May 11; v. 274; p. 400.
Larco Wrench and Mfg. Corporation, Chicago, Ill. Wrenches, pipe-cutters, clamps, lathe-dogs. No. 131,336; May 11; v. 274; p. 401.
Larson, L. P., Jr., Company, Chicago, Ill. Chewing-gum. No. 131,337; May 11; v. 274; p. 401.
Liberty Bread Slicer Company, Inc., Rochester, N. Y. Bread-slicing machines. No. 131,338; May 11; v. 274; p. 401.
Lilly, Eli, & Company, The, Indianapolis, Ind. Expectorant and cough-sedative. No. 131,304; May 30; v. 274; p. 399.
Long, Lawrence R., San Antonio, Tex. Face-powder, rouge, &c. No. 131,339; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 131,340; May 11; v. 274; p. 401.

Lunkenheimer Company, The, Cincinnati, Ohio. Oil-pumps. No. 131,341; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 131,342; May 11; v. 274; p. 401.
Lynch, William C., Washington, D. C. Ointment for piles, burns, boils, &c. No. 131,343; May 11; v. 274; p. 401.
Manteca Packing Company, Manteca, Calif. Canned fruits. No. 131,344; May 11; v. 274; p. 401.
Maxey, Latimer, Frostproof, Fla. Fresh citrus fruits. No. 131,345; May 11; v. 274; p. 401.
Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetics. No. 131,346; May 11; v. 274; p. 401.
Michigan Machine Company, Detroit, Mich. Pumps for pumping liquids. No. 131,347; May 11; v. 274; p. 401.
Monarch Mfg. Co., Atlanta, Ga. Non-alcoholic, &c., beverage. No. 131,348; May 11; v. 274; p. 401.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 131,349–56; May 11; v. 274; p. 401.
National Pecan Growers Exchange, Albany, Ga. Pecan-nuts. No. 131,357; May 11; v. 274; p. 401.
Otorino Manufacturing Company, New York, N. Y. Medicine for the diseased mucous membrane of the nose, throat, mouth, and ear. No. 131,358; May 11; v. 274; p. 401.
Packer Auto Specialty Co., Chicago, Ill. Wrenches. No. 131,359; May 11; v. 274; p. 401.
Page-Connell Coffee Company, St. Joseph, Mo. Coffee, tea, and flavoring extracts. No. 131,360; May 11; v. 274; p. 401.
Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Drying machinery for the manufacture of clay and ceramic products. No. 131,361; May 11; v. 274; p. 401.
Pierre, Joseph M., Fort Wayne, Ind. Preparation for the treatment of asthma, bronchitis, burns, &c. No. 131,362; May 11; v. 274; p. 401.
Piso Company, The, Warren, Pa. Preparation for coughs and colds. No. 131,363; May 11; v. 274; p. 401.
Pollak Steel Company, The, Cincinnati, Ohio. Locomotive and machinery axles, shafts, and gears. No. 131,364; May 11; v. 274; p. 401.
Prussian, Samuel W., Cambridge, Mass. Power-hoists. No. 131,365; May 11; v. 274; p. 401.
Ross, W. A., & Sons, Limited, Belfast, Ireland. Mineral and aerated waters, natural and artificial. No. 131,366; May 11; v. 274; p. 401.
Scott-Fetzer Company, The, Cleveland, Ohio. Hand-operated suction carpet-sweepers. No. 131,367; May 11; v. 274; p. 401.
Select Products Sales Corporation, New York, N. Y. Chemical fire-extinguishing-powder compound. No. 131,368; May 11; v. 274; p. 402.
Shifrin, Adolph, Brooklyn, N. Y. Salves and ointments. No. 131,369; May 11; v. 274; p. 402.
Skinner Manufacturing Company, Omaha, Nebr. Macaroni, vermicelli, and noodles. No. 131,370; May 11; v. 274; p. 402.
Stanley Rule & Level Company, The, New Britain, Conn. Carpenter's planes. No. 131,371; May 11; v. 274; p. 402.
Sunbeam Chemical Company, Chicago, Ill. Pharmaceutical preparation for skin diseases. No. 131,372; May 11; v. 274; p. 402.
Umbaugh, Lou W., Ohio City, Ohio. Liniment for treatment for certain named diseases and affections. No. 131,373; May 11; v. 274; p. 402.
United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. Nos. 131,374–79; May 11; v. 274; p. 402.
United Laboratories, Inc., St. Louis, Mo. Remedies for headaches, insomnia, constipation, &c. No. 131,370; May 11; v. 274; p. 402.
United Nut Lock Company, Springfield, Mass. Nut-locks. No. 131,381; May 11; v. 274; p. 402.
Usit Mfg. Co. of America, Inc., New York, N. Y. Cosmetics and facial beautifiers. No. 131,382; May 11; v. 274; p. 402.
Vitagraph Company of America, The, Brooklyn, N. Y. Moving-picture films. No. 131,383; May 11; v. 274; p. 402.
Vivandou, Victor, New York, N. Y. Toilet preparations. No. 131,384; May 11; v. 274; p. 402.
Wallace Manufacturing Co. Inc., New York, N. Y. Spark-plug tools. No. 131,385; May 11; v. 274; p. 402.
Wellman-Peck & Co., San Francisco, Calif. Foods and ingredients of foods. No. 131,386; May 11; v. 274; p. 402.
Western Canning Company, Oakland, Calif. Canned fruits. No. 131,387; May 11; v. 274; p. 402.
Wheeler Optical Company, Portland, Oreg. Eye Remedy. No. 131,388; May 11; v. 274; p. 402.
Wollensak Optical Co., Rochester, N. Y. Photographic lenses. No. 131,389; May 11; v. 274; p. 402.
Wood Shovel & Tool Co., Piqua, Ohio. Shovels, spades, scoops, &c. No. 131,390; May 11; v. 274; p. 402.
Wood Turret Machine Co., Brazil, Ind. Turret-lathes and screw-machines. No. 131,391; May 11; v. 274; p. 402.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bay City Milling Co., Bay City, Mich. "American Leader." (For Flour.) No. 21,853; May 11; v. 274; p. 403.
Commercial Tea & Coffee Co., The, Boston, Mass. "Anatolikos Astir." (For Coffee.) No. 21,854; May 11; v. 274; p. 403.
Gilfer, W. R., Jacksonville, Fla. "Export Beverage—Extra Fine." (For a Certain Beverage.) No. 21,868; May 11; v. 274; p. 403.
Glidden Company, The, Cleveland, Ohio. "Everywhere On Everything." (For Paints, Varnishes, Colors, and Insecticides.) No. 21,855; May 11; v. 274; p. 403.
Holtrans Company, Inc., New York, N. Y. "Holco Brand Sardines." (For Sardines.) No. 21,856; May 11; v. 274; p. 403.
Magnus Drug Chemical Company, Chicago, Ill. "Magnus Stomach Bitters." (For a Proprietary Medicine.) No. 21,857; May 11; v. 274; p. 403.
M. & S. Chemical Co., The, Omaha, Nebr. "Peerless Laundry Tablets." (For Laundry-Tablets.) No. 21,858; May 11; v. 274; p. 403.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason's Khufu." (For Chocolate Cocoanut Cream Bars.) Nos. 21,859–60; May 11; v. 274; p. 403.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason's Nut Malobar." (For Chocolate Marshmallow Candy.) No. 21,861; May 11; v. 274; p. 403.
Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason Mints." (For Mint Candy.) Nos. 21,862–3; May 11; v. 274; p. 403.
Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nuts." (For Chocolate Candy—namely, Chocolate-Covered Nuts.) No. 21,864; May 11; v. 274; p. 403.
Shepard Fruit Products Company, Wenatchee, Wash. "Mrs. Shepard's Fruit Flakes." (For Flaked and Cooked Fruits—namely, Apples.) No. 21,865; May 11; v. 274; p. 403.
Welch Grape Juice Company, The, Westfield, N. Y. "Welch-Apl." (For a Non-Alcoholic Beverage Consisting of Apple Syrup and Carbonated Water.) No. 21,866; May 11; v. 274; p. 403.
York Chocolate Company, York, Pa. "Swiss-Alpine Style Sweet Milk Chocolate." (For Sweet Chocolate.) No. 21,867; May 11; v. 274; p. 403.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Grant, J. C., Chemical Co., East St. Louis, Ill. "Starting Right! Bon Bon never disappoints." (For Baking-Powder.) No. 5,256; May 11; v. 274; p. 403.
United Fuel & Supply Company, Detroit, Mich. "Comfort Coke." (For Fuel-Coke.) No. 5,257; May 11; v. 274; p. 403.
Williams Patent Crusher & Pulverizer Co., St Louis, Mo. "Taking care of Ball-Bearings of Our Little Giant Line of Grinding Mills." (For Ball-Bearings of Our Little Giant Line of Grinding-Mills Used as Feed-Grinders.) No. 5,258; May 11; v. 274; p. 403.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

A. O. Chemical Co., Ocilla, Ga. Insecticide. No. 127,468; May 11; v. 274; p. 384.
Air Way Company, Toledo, Ohio. Electric vacuum-cleaners. No. 126,441; May 11; v. 274; p. 377.
Alexander, J., Mfg. Co., The, New York, N. Y. Rear-view mirrors for automobiles. No. 121,289; May 11; v. 274; p. 370.
American Candy Manufacturing Co., Selma, Ala. Candy. No. 128,192; May 11; v. 274; p. 386.
American Ink Company, Seattle, Wash. Writing-inks. No. 128,642; May 11; v. 274; p. 388.
Ames, F. A., Company, The, Owensboro, Ky. Buggies and carriages, automobile-bodies, &c. No. 124,830; May 11; v. 274; p. 373.
Andersen, A. O., & Co., Portland, Oreg. Unsweetened evaporated milk. No. 129,036; May 11; v. 274; p. 390.
Andersen-Meyer & Company, Ltd., New York, N. Y. Bristles and human hair. No. 126,090; May 11; v. 274; p. 377.
Andrews, Frederick E., Pelham Manor, N. Y. Preparation for polishing metal and glass, such as gold, silver, nickel, &c. No. 120,632; May 11; v. 274; p. 369.
Ansbacher, A. B., & Company, New York, N. Y. Dry paints, water paste paints, and paint and varnish pigments. Nos. 120,739–40; May 11; v. 274; p. 369.
Apollo Magneto Corporation, Dover, Del., and Brooklyn, N. Y. Ignition-magnetos and parts thereof and electrical condensers. No. 128,585; May 11; v. 274; p. 387.
Argonne Products Co., Los Angeles, Calif. Table-syrups. No. 129,038; May 11; v. 274; p. 390.
Atchison Mills Corporation, The, Atchison, Kans. Flour, Wheat-. No. 130,008; May 11; v. 274; p. 395.
Automatic appliance Company, The, St. Louis, Mo. Machines for timing and controlling the period of operation of laundry-machines and signaling the end of operation thereof. Nos. 127,573–4; May 11; v. 274; p. 384.
Bacharach, S., and Company, Philadelphia, Pa. Men's and young men's suits and overcoats. No. 127,992; May 11; v. 274; p. 386.
Baldwin Company, The, Cincinnati, Ohio. Pianos, player-pianos, and piano-players. No. 130,154; May 11; v. 274; p. 396.
Bard, W. E., Sedalia, Mo. Medicine for the treatment of colds, coughs, and other throat and lung diseases. No. 127,575; May 11; v. 274; p. 384.
Barna, Peter, New York, N. Y. Canned mackerel. No. 129,440; May 11; v. 274; p. 392.
Baugatz, Frédéric G., Paris, France. Corsets and belts worn as substitutes for corsets. No. 108,211; May 11; v. 274; p. 364.
Bay City Milling Company, Bay City, Mich. Wheat-flour and buckwheat-flour. No. 127,234; May 11; v. 274; p. 381.
Bay, H. C., Company, Chicago, Ill., and Bluffton, Ind. Pianos and piano-players. Nos. 121,736–7; May 11; v. 274; p. 370.
Bay, H. C., Company, Chicago, Ill., and Bluffton, Ind. Pianos and piano-players. No. 126,270; May 11; v. 274; p. 377.
Beacon Phonograph Company, Boston, Mass. Phonographs, records, and needles. No. 128,875; May 11; v. 274; p. 389.
Biflex Products Company, Waukegan, Ill. Automobile-bumpers and attaching brackets. No. 128,723; May 11; v. 274; p. 389.
Binz, Edward G., Los Angeles, Calif. Medicinal treatment for coughs, bronchitis, croup, &c. No. 127,351; May 11; v. 274; p. 382.
Blahnik, V. L., & Sons, Chicago, Ill. Internal remedy for affections of the lungs and throat, colds, coughs, &c. No. 117,797; May 11; v. 274; p. 367.
Block, Louis A., New Orleans, La. Polishing and cleaning liquid for use on furniture, floors, &c. No. 115,753; May 11; v. 274; p. 366.
Block, Louis A., New Orleans, La. Cleaning liquid adapted for general use and for removing grease and dirt from the hands, &c. No. 115,754; May 11; v. 274; p. 366.
Blual Chemical Co., New York, N. Y. Laundry bluing in capsule form. No. 127,465; May 11; v. 274; p. 384.
Bogert & Hopper, New York, N. Y. Bubble-blowers. No. 126,952; May 11; v. 274; p. 380.
Borgfeldt, George, & Co., New York, N. Y. Toy building blocks. No. 128,876; May 11; v. 274; p. 389.
Borgfeldt, George, & Co., New York, N. Y. Kimonos. No. 129,124; May 11; v. 274; p. 391.

Bowman, Allan K. Wilkinsburg, Pa. Cleaning compound—namely, wall-paper cleaner. No. 124,639; May 11; v. 274; p. 373.
Brandon, A. H., & Co., Toledo, Ohio. Fishing-tools for wells. No. 126,303; May 11; v. 273; p. 377.
Bray Pictures Corporation, The, New York, N. Y. Moving-picture films. No. 130,083; May 11; v. 274; p. 396.
Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Aprons. No. 129,168; May 11; v. 274; p. 392.
Brownstein-Louis Company, Los Angeles, Calif. Overalls, jumpers, overall-coats, &c. No. 120,693; May 11; v. 274; p. 369.
Brubaker, W. L., & Bros, Millersburg, Pa. Machines for boring automobile and locomotive cylinders. No. 128,999; May 11; v. 274; p. 390.
Calhoun, George E., Amsterdam, N. Y. Dressing for brake-linings and the like. No. 128,141; May 11; v. 274; p. 386.
California Soda Products Co., San Francisco, Calif. Preparation used for softening water. No. 123,967; May 11; v. 274; p. 372.
Calisher, Joseph H., New York, N. Y. Perfumes, toilet water, face-powders, cold-cream, &c. No. 127,355; May 11; v. 274; p. 383.
Candy Products Corporation, Chicago, Ill. Confectionery. No. 129,043; May 11; v. 274; p. 390.
Caut-Slip Co., Rochester, N. Y. Liquid preparation used for preventing paper from slipping while feeding over the rubber platen on a typewriter or multigraph machine. No. 122,685; May 11; v. 274; p. 371.
Carnrick, G. W., Co., New York, N. Y. Medicinal tablet for the treatment of anemia and chlorosis. No. 127,577; May 11; v. 274; p. 384.
Chapa, A. C., San Antonio, Tex. Salve for treatment of colds, fever, rheumatism, itching, &c. No. 127,030; May 11; v. 274; p. 380.
Chase & Sanborn, Boston, Mass. Tea. Nos. 129,126–7; May 11; v. 274; p. 391.
Chéri, Incorporated, Philadelphia, Pa. Chocolates and candies. No. 117,005; May 11; v. 274; p. 367.
Chicago Hardware Foundry Company, North Chicago, Ill. Lunch-room equipment, Industrial. No. 124,972; May 11; v. 274; p. 374.
Churchill, Ray S., Danville, Ill. Soldering compounds in powder form. No. 124,785; May 11; v. 274; p. 373.
City Mills Company, Columbus, Ga. Cornmeal. No. 128,654; May 11; v. 274; p. 388.
City Mills Company, Columbus, Ga. Wheat-flour and self-rising wheat-flour. No. 128,655; May 11; v. 274; p. 388.
City Mills Company, Columbus, Ga. Wheat-flour and self-rising wheat-flour. No. 128,658; May 11; v. 274; p. 388.
Colonial Preserve Company, Philadelphia, Pa. Canned fruits. No. 118,604; May 11; v. 274; p. 368.
Columbian Hardware Company, The, Cleveland, Ohio. Heavy hardware, especially vises, anvils, hinges, &c. No. 126,243; May 11; v. 274; p. 377.
Conn, C. G., Ltd., Elkhart, Ind. Wind musical instruments of the bugle and trumpet type. No. 128,080; May 11; v. 274; p. 386.
Crane, Clarence A., Cleveland, Ohio. Non-alcoholic maltless cola beverage. No. 126,102; May 11; v. 274; p. 377.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, &c. No. 129,971; May 11; v. 274; p. 395.
Dairy Products Company, The, Dayton, Ohio. Non-alcoholic non-cereal maltless beverage. No. 127,500; May 11; v. 274; p. 384.
Darnold, E. C., Belpre, Ohio. Candy. No. 129,450; May 11; v. 274; p. 393.
De Nobili Cigar Co., Inc., Long Island City and New York, N. Y. Cigars. No. 126,852; May 11; v. 274; p. 379.
Deaderick, Sallie B., Ford City, Pa. Remedy for falling hair, dandruff, and scalp diseases. No. 127,241; May 11; v. 274; p. 381.
Deco Co., The, New York, N. Y. Finger-rings, bracelets, necklaces, &c. No. 128,669; May 11; v. 274; p. 388.
Detroit Creamery Company, Detroit, Mich. Ice-cream. No. 122,425; May 11; v. 274; p. 371.
Dibble, Louis G., Shortsville, N. Y. Bassinettes. No. 128,424; May 11; v. 274; p. 387.
Dick, W. B., & Company, Inc., New York, N. Y. Lubricating oils and greases. No. 125,421; May 11; v. 274; p. 375.

Dixie Fruit Products Corporation, New York, N. Y. Vinegar. No. 129,171; May 11; v. 274; p. 392.
Donmeyer, Gardner Co., Peoria, Ill. Wheat-flour. Nos. 122,158–9; May 11; v. 274; p. 371.
Donnelly, W. J. Company, The, Detroit, Mich. Waterproof automobile top and curtain material, &c. No. 115,140; May 11; v. 274; p. 365.
Druggists Concentrates Co., Pittsburgh, Pa. Toilet preparations. No. 125,606; May 11; v. 274; p. 375.
Duluth Creamery & Produce Company, Duluth, Minn. Ice-cream and butter. No. 128,730; May 11; v. 274; p. 389.
Educator Co., The, Philadelphia, Pa. Medicinal treatment for pyorrhea. No. 126,679; May 11; v. 274; p. 378.
Elberfeld Chemical & Mfg. Co., Sandwich, Mass. Ammonia, bluing, bleaching preparation, and disinfectant. No. 117,616; May 11; v. 274; p. 367.
Epstein, Sam, Raeford, N. C. Leather shoes. No. 124,751; May 11; v. 274; p. 373.
Esmond Mills, The, Jersey City, N. J. Cotton bed-blankets. No. 126,275; May 11; v. 274; p. 377.
Essex Rubber Company, Trenton, N. J. Tank-balls. No. 128,428; May 11; v. 274; p. 387.
Evans, Madge, Hat Co., New York, N. Y. Straw and cloth hats for children, girls, and misses. No. 126,734; May 11; v. 274; p. 379.
Everett, Aughenbaugh & Co., Waseca, Minn. Bread. No. 116,735; May 11; v. 274; p. 366.
Everit Chemical Co., New Haven, Conn. Fire-extinguishing fluid. No. 127,242; May 11; v. 274; p. 381.
Fair Maid Undergarment Co., The, New York, N. Y. Children's and misses' undergarments. No. 126,680; May 11; v. 274; p. 378.
Faire Bros. & Co., Leicester, England. Elastic webs. No. 117,659; May 11; v. 274; p. 367.
Farm Equipment Co., The, Baltimore, Md. Steel fire-resisting and surface roofing and shingles. No. 126,682; May 11; v. 274; p. 379.
Fashion Boot-Shop, Kansas City, Mo. Leather, fabric, and combination shoes. No. 125,456; May 11; v. 274; p. 375.
Feinberg & Feinberg, New York, N. Y. Cravats and neckties. No. 127,682; May 11; v. 274; p. 385.
Fischer, J. & C., New York, N. Y. Pianofortes, grand and upright pianos, and player-pianos. No. 127,672; May 11; v. 274; p. 385.
Fitzgerald & Perry, Keota, Iowa. Preparation adapted to be externally used for the treatment of fistula, poll-evil, quittor, &c. No. 127,243; May 11; v. 274; p. 381.
Free Sewing Machine Company, Rockford, Ill. Sewing-machines. No. 129,544; May 11; v. 274; p. 393.
Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 120,792; May 11; v. 274; p. 369.
Fritz-Richards Company, Lynchburg, Va. Leather shoes. No. 127,428; May 11; v. 274; p. 383.
Fulfashion Hosiery Company, New York, N. Y. Hosiery. Nos. 128,676–7; May 11; v. 274; p. 388.
Galbani, Egidio, Melzo, Italy. Cheeses. No. 100,139; May 11; v. 274; p. 363.
Gambrill Grain Products Company, The, Baltimore, Md. Barley malt-flour. No. 130,468; May 11; v. 274; p. 396.
Garden, Polly B., New York, N. Y. Hair-tonic and gloss and shampoo preparation. No. 126,511; May 11; v. 274; p. 378.
Gardner Motor Co., St. Louis, Mo. Automobiles. No. 127,363; May 11; v. 274; p. 383.
Gary Laboratories Company, Gary, Ind. Foot-lotion. No. 127,364; May 11; v. 274; p. 383.
Gavin, Charles E., Milwaukee, Wis. Liquid soap. No. 128,151; May 11; v. 274; p. 386.
General Manufacturing Corporation, Milwaukee, Wis. Phonographs. No. 128,091; May 11; v. 274; p. 386.
Grand Rapids School Equipment Co., Grand Rapids, Mich. Phonographs. No. 121,245; May 11; v. 274; p. 370.
Gerstendorfer Bros., New York, N. Y. Aluminum, bronze, and gold enamel paints, wood-stains, varnishes, &c. No. 127,429; May 11; v. 274; p. 383.
Globe Canning Company, Eastport, Me. Canned sardines. Nos. 129,497–8; May 11; v. 274; p. 393.
Globe Canning Company, Eastport, Me. Canned sardines. No. 129,500; May 11; v. 274; p. 393.
Goodrich, B. F., Company, The, New York, N. Y. Billiard cushions. No. 126,571; May 11; v. 274; p. 378.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt, bearing and type metals. No. 117,934; May 11; v. 274; p. 367.
Greb Company, Inc., The, Portland, Me., and Boston, Mass. Tools and attachments for removing from shafts, and the like, gears and pulleys, &c. No. 116,415; May 11; v. 274; p. 366.
Greenbaum, Jacob L., Toledo, Ohio. Physic for children. No. 127,369; May 11; v. 274; p. 383.
Grimwood Bros., Evansville, Ind. Phonograph-cabinets. No. 126,724; May 11; v. 274; p. 379.
Haas, Adolph R., Chicago, Ill. Ladies' waists and blouses. No. 124,070; May 11; v. 274; p. 372.
Halff, S., & Co., Los Angeles, Calif. Hosiery. No. 121,392; May 11; v. 274; p. 370.
Hanson & Van Winkle Company, The, Newark, N. J. Preparation for polishing metals. Nos. 124,935–6; May 11; v. 274; p. 373–4.

Haynes Automobile Company, The, Kokomo, Ind. Automobiles. No. 124,990; May 11; v. 274; p. 374.
Hedman, Nels O., Leadville, Colo. Saw-sets. No. 128,889; May 11; v. 274; p. 389.
Heffner, Charles L., Brooklyn, N. Y. Medicinal preparation used in the treatment of hardening of the arteries, high blood-pressure, &c. No. 125,844; May 11; v. 274; p. 376.
Hendler Creamery Company, The, Baltimore, Md. Ice-cream, frozen custard, and ices. No. 129,549; May 11; v. 274; p. 393.
Heppenstall Forge and Knife Company, Pittsburgh, Pa. Heat-treated forgings. No. 129,325; May 11; v. 274; p. 392.
Hollingshead, W. R., Co., Binghamton, N. Y. Stove and shoe polishes, stove and shoe polishing outfits, and shoe cleaner. No. 97,083; May 11; v. 274; p. 363.
Holquin, Ramona M., Douglas, Ariz. Remedy against dandruff, &c., and tonic to stimulate the growth of hair. No. 125,457; May 11; v. 274; p. 375.
Hope Knitting Company, Cohoes, N. Y. Underwear for men and women. No. 128,685; May 11; v. 274; p. 388.
Hunt Chemical Company, Jacksonville, Fla. Cold, croup and pneumonia salve. No. 127,372; May 11; v. 274; p. 383.
Hunt Chemical Company, Jacksonville, Fla. Stainless croup and pneumonia salve. No. 127,371; May 11; v. 274; p. 383.
Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 127,086; May 11; v. 274; p. 380.
Imrie, Carl B., Brooklyn, N. Y. Deodorants and preparations for the relief of excessive perspiration. No. 127,286; May 11; v. 274; p. 382.
International Coal Products Corporation. (See Smith, Charles H., assignor.)
J. D. Insulating & Refrigerating Co., Ltd., Liverpool, England. Composition fireproof floorings and coverings for partitions, walls, and roofings. No. 124,180; May 11; v. 274; p. 372.
Jackson, J., Limited, Bramley, England. Taps and valves of metal for general use with fluids. No. 128,442; May 11; v. 274; p. 387.
Jennings Lace Works Corporation, Brooklyn, N. Y. Sweaters, underwear, silk gloves, and hosiery, &c. No. 129,145; May 11; v. 274; p. 392.
Johnson City Mills, Johnson City, Tenn. Hosiery. No. 115,178; May 11; v. 274; p. 365.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 124,111; May 11; v. 274; p. 372.
Kahan, Joseph C., Philadelphia, Pa. Optical goods. No. 119,833; May 11; v. 274; p. 369.
Kayser, Henry, & Fils, Inc., New York, N. Y. Filter-paper. No. 129,014; May 11; v. 274; p. 390.
Kendorski, Walter, Philadelphia, Pa. Deodorant, an insecticide, and a roach-powder. No. 116,205; May 11; v. 274; p. 366.
Kickbusch, A., Grocery Co., Wausau, Wis. Canned goods, &c. No. 126,526; May 11; v. 274; p. 378.
Kiger, Elizabeth, Birmingham, Ala. Hair-tonic. No. 126,639; May 11; v. 274; p. 376.
Kilbourne & Clark Manufacturing Co., Seattle, Wash. Radio telegraph and telephone apparatus. No. 127,091; May 11; v. 274; p. 380.
Lange Soap Co., San Antonio, Tex. Soap. No. 122,126; May 11; v. 274; p. 371.
Lawrence Aëroplane Model and Supply Company, Chicago, Ill. Toy airplanes. No. 118,289; May 11; v. 274; p. 368.
Leonard, Andrew J., West Branch, Mich. Hand-washing compounds. No. 126,642; May 11; v. 274; p. 378.
Liberty Flexible Heel Company, Waterloo, Iowa. Metal, composition, and combination heels for boots and shoes. No. 125,708; May 11; v. 274; p. 375.
Liebenstein & Company, Limited, Exbridge, England. Coloring-matters for foods and liquids. No. 126,691; May 11; v. 274; p. 379.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 125,755; May 11; v. 274; p. 375.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. No. 127,250; May 11; v. 274; p. 381.
Locke, H. E., & Company, Boston, Mass. Thread and yarn. No. 120,758; May 11; v. 274; p. 369.
Locke Insulator Manufacturing Company, The, Victor, N. Y. Insulators for high-tension insulation. No. 127,597; May 11; v. 274; p. 385.
London, Samuel, & Co., Inc., New York, N. Y. Dress, negligée, and work shirts. No. 128,448; May 11; v. 274; p. 387.
Louisiana Motor Car Company, Inc., Shreveport, La. Automobiles. No. 130,229; May 11; v. 274; p. 396.
Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass dishes. No. 123,217; May 11; v. 274; p. 371.
Macy, R. H., & Co., Inc., New York, N. Y. Phonographs, graphophones, talking-machines, needles, &c. No. 121,003; May 11; v. 274; p. 370.
Maganasky Brothers, Oklahoma, Okla. Men's and boys' suits, shoes, hats, caps, shirts, hosiery, &c. No. 122,604; May 11; v. 274; p. 371.
Maggioni, L. P., & Company, Savannah, Ga. Fresh oysters, canned or otherwise put up. Nos. 125,712–3; May 11; v. 274; p. 375.
Maire, August E., Minneapolis, Minn. Cold-water paint. No. 124,658; May 11; v. 274; p. 373.

Manghisi, Andrew A., West Hoboken, N. J. Phonographs. No. 128,512; May 11; v. 274; p. 387.
Mann, Alexander S., Providence, R. I. Cleaner in powdered form for textile goods. No. 121,250; May 11; v. 274; p. 370.
Many, Blanc and Co., Chicago, Ill. Cigars. No. 125,900; May 11; v. 274; p. 376.
McCullough, W. A., & Sons, Webster City, Iowa. Watering-fountains for poultry and feed-hoppers for stock and poultry. No. 121,008; May 11; v. 274; p. 370.
Mebane Bedding Co., The, Mebane, N. C. Felt mattresses. No. 126,051; May 11; v. 274; p. 376.
Medical Society—American Branch—Inc., Boston, Mass. Publications, Fine-art. No. 104,619; May 11; v. 274; p. 363.
Meissner, C. R., Co., New York, N. Y. Embroidery-wool, wool threads, and threads made of linen, cotton, &c. No. 129,852; May 11; v. 274; p. 394.
Melhuish, Harold T., Amityville, N. Y. Antiseptic and healing ointment for the treatment of rash, cuts, burns, &c. No. 127,440; May 11; v. 274; p. 384.
Melikian Cigarettes, Inc., Wilmington, Del., and Trenton, N. J. Cigarettes. No. 127,821; May 11; v. 274; p. 385.
Meyer Brothers Drug Company, St. Louis, Mo. Perfumes, face and massage creams, beauty-powder, &c. No. 124,941; May 11; v. 274; p. 374.
Midland Playing Card Co., Chicago, Ill. Cards, Playing. No. 126,589; May 11; v. 274; p. 378.
Miller, Thomas R. E., Evansville, Ind. Metal pipes, pipe-couplings, reducers, unions, and elbows. No. 111,798; May 11; v. 274; p. 365.
Mills Brothers Company, The, Cincinnati, Ohio. Powder to be used as a washing preparation. No. 127,116; May 11; v. 274; p. 380.
Mills Brothers Company, The, Cincinnati, Ohio. Prepared cake-flour. No. 129,565; May 11; v. 274; p. 393.
Moore & Thompson Paper Company, Bellows Falls, Vt. Wrapping-paper. No. 127,324; May 11; v. 274; p. 382.
Moss, Henry, & Co., Inc., New York, N. Y. Stencils, oil-board, wax seals, and rubber bands. No. 111,504; May 11; v. 274; p. 364.
Mt. Tom Hat Manufacturing Company, Inc. Easthampton, Mass. Hats, Men's. No. 125,665; May 11; v. 274; p. 375.
Narrow Fabric Co., The, Wyomissing borough, near Reading, Pa. Shoe and corset lacings, braided and loom edgings, elastics, &c. No. 116,005; May 11; v. 274; p. 366.
New York Band Instr. Co., New York, N. Y. Musical instruments. No. 127,255; May 11; v. 274; p. 382.
Newark Plaster Company, Newark, N. J. Plaster of Paris of non-adhesive character for use of dentists and surgeons. No. 118,321; May 11; v. 274; p. 368.
Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent electric lamps. No. 128,614; May 11; v. 274; p. 388.
Odelsa Mfg. Co., The, Oklahoma, Okla. Coffees, teas, spices, flavoring extracts, canned vegetables, &c. No. 130,549; May 11; v. 274; p. 396.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. No. 129,655; May 11; v. 274; p. 394.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. No. 129,658; May 11; v. 274; p. 394.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. No. 129,660; May 11; v. 274; p. 394.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. No. 129,663; May 11; v. 274; p. 394.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. No. 129,666; May 11; v. 274; p. 394.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild. Nos. 129,669–70; May 11; v. 274; p. 394.
Overton, Anthony, Chicago, Ill. Shoe and leather polish and metal-polish. No. 117,893; May 11; v. 274; p. 367.
Palmine Company, Inc., Dobbs Ferry, and New York, N. Y. Oleomargarin. No. 129,797; May 11; v. 274; p. 394.
Papillon, Alfred, Jennings, La. Crude-oil burners for stoves and furnaces. No. 128,517; May 11; v. 274; p. 387.
Parsons, T. I. C., Ripley, W. Va. Headache, neuralgia, neuritis, rheumatism, &c., medicines. No. 127,182; May 11; v. 274; p. 381.
Patent Cereals Company, The, Geneva, and New York, N. Y. Corn-flour. No. 129,078; May 11; v. 274; p. 390.
Paxton & Gallagher Co., Omaha, Nebr. Canned fish. No. 129,079; May 11; v. 274; p. 390.
Petersen, Arthur E., Portland, Oreg. Laundry washing compound. No. 110,033; May 11; v. 274; p. 364.
Petri and Jones Company, Incorporated, Boston, Mass. Machinery and appliances used in the manufacture of foods, &c. No. 107,567; May 11; v. 274; p. 364.
Petroleum Products Co., San Francisco, Calif. Kerosene. No. 111,625; May 11; v. 274; p. 365.
Pitometer Company, The, New York, N. Y. Instruments for indicating, measuring, and recording the velocity of flowing streams. No. 114,083; May 11; v. 274; p. 365.
Plymouth Phonograph Co., Plymouth, Wis. Phonographs. No. 126,778; May 11; v. 274; p. 379.
Poetzl, Charles, Baltimore, Md. Remedy to promote the growth of the hair. No. 126,777; May 11; v. 274; p. 379.
Porcupine Manufacturing Company. (See Steell, Edgar M., assignor.)
Porterfield Baking Company, Indianapolis, Ind. Doughnuts and cookies. No. 130,053; May 11; v. 274; p. 396.
Postum Cereal Company, Inc., Wilmington, Del., and Battle Creek, Mich. Corn-flour, hominy, grits, meal. No. 129,986; May 11; v. 274; p. 395.
Powers, Lucius, Fresno, Calif. Citrus and fresh fruits. No. 129,081; May 11; v. 274; p. 391.
Powers Paper Company, Springfield, Mass. Non-carbonized typewriting and printing paper. No. 113,591; May 11; v. 274; p. 365.
Premier Manufacturing Co., Lexington, Ky. Athletic union-suits. No. 128,698; May 11; v. 274; p. 389.
Racine Universal Motor Co., Chicago, Ill. Electric hair-cutters. No. 127,604; May 11; v. 274; p. 385.
Rapp, Samuel W., Jr., Morton, Ill. Compound in liquid or paste form for cleaning the hands, fabrics, glassware, &c. No. 127,739; May 11; v. 274; p. 385.
Reed, Chas. H., New York, N. Y. Cotton piece goods. No. 127,014; May 11; v. 274; p. 380.
Rice-Stix Dry Goods Company, St. Louis, Mo. Trunks, traveling-bags, suitcases, and brief-cases. No. 125,974; May 11; v. 274; p. 376.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. Nos. 129,086–7; May 11; v. 274; p. 391.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. Nos. 129,089–90; May 11; v. 274; p. 391.
Ritter Bros., New York, N. Y. Ladies' handbags. Nos. 127,151–2; May 11; v. 274; p. 381.
Ritzwoller & Co., Inc., New York, N. Y. Children's dresses. No. 128,744; May 11; v. 274; p. 389.
Rosenberg Bros., St. Louis, Mo. Woolen cloth for tailoring purposes. No. 119,047; May 11; v. 274; p. 368.
Russ Manufacturing Company, The, Cleveland, Ohio. Soda-fountains and soda-water carbonators. No. 128,408; May 11; v. 274; p. 387.
Safety Equipment Company, The, Cleveland, Ohio. Trestles of the portable variety. No. 126,699; May 11; v. 274; p. 379.
Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses. No. 128,328; May 11; v. 274; p. 387.
Samuel, Isaac, Elmira, N. Y. Soap. No. 121,185; May 11; v. 274; p. 370.
San Fernando Canning Co., San Fernando, Calif. Canned peaches and apricots. No. 114,361; May 11; v. 274; p. 365.
Sands Manufacturing Company, The, Cleveland, Ohio. Gas, gasolene, and kerosene water-heaters, &c. No. 130,121; May 11; v. 274; p. 396.
Schmid, Julius, Incorporated, New York, N. Y. Capping-skins for stoppered bottles. No. 125,438; May 11; v. 274; p. 375.
Schoenfeld, Henry, New York, N. Y. Saffron. No. 117,997; May 11; v. 274; p. 368.
Sears, Roebuck and Co., Chicago, Ill. Hats for children and misses. No. 129,023; May 11; v. 274; p. 390.
Sears, Roebuck and Co., Chicago, Ill. Women's hats. No. 128,706; May 11; v. 274; p. 389.
Simmons Hardware Company, St. Louis, Mo. Safety-razor blades. No. 128,868; May 11; v. 274; p. 389.
Sinclair Manufacturing Company, The, Toledo, Ohio. Powdered lye. Nos. 127,337–8; May 11; v. 274; p. 382.
Smith, Charles H., Irvington, N. J., assignor to International Coal Products Corporation, Richmond, Va. Briquets made from coal. No. 108,043; May 11; v. 274; p. 364.
St. Albans Grain Company, St. Albans, Vt. Stock feed. No. 130,692; May 11; v. 274; p. 396.
St. Albans Grain Company, St. Albans, Vt. Dairy feed. No. 130,695; May 11; v. 274; p. 396.
Standard Gas Engine Co., Oakland, Calif. Marine and stationary gas engines and hoists for same. No. 125,915; May 11; v. 274; p. 376.
Standard Oil Company, New York, N. Y. Isopropyl alcohol. No. 127,265; May 11; v. 274; p. 382.
Steell, Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Automobile-tire patches and inner liners. No. 121,788; May 11; v. 274; p. 371.
Stephens-Adamson Manufacturing Co., Aurora, Ill. Roller brackets for belt conveyers. No. 89,590; May 11; v. 274; p. 363.
Stoll, Irene H., Cleveland, Ohio. Fluid dye compound especially adapted for dyeing hair. No. 115,444; May 11; v. 274; p. 365.
Strong, Carlisle & Hammond Company, The, Cleveland, Ohio. Annealing, tempering, forging, case-hardening, and melting metallurgical furnaces. No. 129,515; May 11; v. 274; p. 393.
Thacker, D. W., Springfield, Ohio. Coffee. No. 129,294; May 11; v. 274; p. 392.
Tiffany & Company, New York, N. Y. Cleaning and polishing materials for jewelry and precious-metal ware. No. 128,226; May 11; v. 274; p. 386.
Tiffany & Company, New York, N. Y. Electric lamps, candelabra, candlesticks, &c. Nos. 128,232–3; May 11; v. 274; p. 386.
Torres y Ribelles, Sevilla, Spain. Olive-oil and other edible oils. No. 116,505; May 11; v. 274; p. 366.
Towle Sons, Inc., San Francisco, Calif. Sauce. No. 129,196; May 11; v. 274; p. 392.
Townsend Grace Company, The, Baltimore, Md. Straw hats and caps. No. 127,565; May 11; v. 274; p. 384.

Treefilm Company, Inc., New York, N. Y. Cinematographic films. No. 128,623; May 11; v. 274; p. 388.
True, Dr. J. F. & Co., Inc., Auburn, Me. Vermifuge and remedies for indigestion, biliousness, headache, colds, &c. No. 126,979; May 11; v. 274; p. 380.
United Drug Company, Boston, Mass. Preparation having deodorant, antiseptic, and perspiration-absorbent properties. No. 126,497; May 11; v. 274; p. 377.
United Drug Company, Boston, Mass. Smoking-tobacco. No. 126,078; May 11; v. 274; p. 376.
United Products & Sales Corporation, San Francisco, Calif. Lubricating oils and greases. No. 125,411; May 11; v. 274; p. 374.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Arctics. No. 124,922; May 11; v. 274; p. 372.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Liquid preparation for surface finish in the nature of a varnish. No. 129,157; May 11; v. 274; p. 392.
Vasquez, Francisco S., Los Angeles, Calif. Tobasco sauce, pickled hot peppers, and red-chilli sauce. No. 119,686; May 11; v. 274; p. 368.
Vollrath, Jacob J., Mfg. Co., The, Sheboygan, Wis. Steel enameled ware. No. 107,123; May 11; v. 274; p. 364.
Walton, Thompson G., Chicago, Ill. Preparation for a medicinal tonic for treatment of stomach, kidneys, liver, and bowels. No. 125,266; May 11; v. 274; p. 374.
Ward Baking Company, New York, N. Y. Bread. No. 128,416; May 11; v. 274; p. 387.
Ward's, Edgar T., Sons Co., Boston, Mass. Tool-steel. No. 129,918; May 11; v. 274; p. 395.
Warren Tool and Forge Company, The, Warren, Ohio. Coal-pick eyes, railroad picks, hazel-hoes, pining-bars, bush-hammers, &c. No. 124,378; May 11; v. 274; p. 372.
Washburn-Crosby Co., Minneapolis, Minn. Wheat-flour. No. 129,917; May 11; v. 274; p. 395.
Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. Nos. 130,864–6; May 11; v. 274; p. 397.
Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. No. 130,868; May 11; v. 274; p. 397.
Waterproofings Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing in the nature of a preservative. No. 125,988; May 11; v. 274; p. 376.
Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Underwear for men and women. No. 128,716 May 11; v. 274; p. 389.
West Coast Soap Co., Oakland, Calif. Laundry soap. No. 117,788; May 11; v. 274; p. 367.
West Virginia Malleable Iron Co., Point Pleasant, W. Va. Malleable-iron castings. No. 127,879; May 11; v. 274; p. 385.
Western Soap Products Company, Modesto, Calif. Soap. No. 126,299; May 11; v. 274; p. 377.
Westmoreland Candy Co., Inc., Richmond, Va. Candy. No. 129,362; May 11; v. 274; p. 392.
Whitney, W. F. Company, South Ashburnham, Mass. Ordinary chairs in domestic use. No. 124,701; May 11; v. 274; p. 373.
Williams, Connor O., Wichita, Kans. Automobile tires and inner tubes of rubber. No. 126,086; May 11; v. 274; p. 376.
Wilson, Clarence, Dinuba, Calif. Fresh fruits. No. 129,116; May 11; v. 274; p. 391.
Wonder-Nut Food Products Company, Jefferson, Wis. Oleomargarin. Nos. 129,959–61; May 11; v. 274; p. 395.
Wooditte Laboratories, The, Modesto, Calif. Compounded autowash used as a cleanser. No. 118,720; May 11; v. 274; p. 368.
Woolson Spice Company, The, Toledo, Ohio. Coffee. No. 129,522; May 11; v. 274; p. 393.
Wright & Lawrence, Chicago, Ill. Preparation for the treatment of psoriasis, scrofula, asthma, goiter &c. No. 127,343; May 11; v. 274; p. 382.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PANENTS WERE ISSUED ON THE 11TH DAY OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid utilizing sludge acid, Apparatus for producing hydrochloric. H. M. Lasher. No. 1,339,519; May 11; v. 274; p. 237.
Adding and typewriting machine. B. C. Stickney. No. 1,339,796; May 11; v. 274; p. 290.
Adenotome. S. Diamant. No. 1,339,691; May 11; v. 274; p. 271.
Adenotome. S. Diamant. No. 1,339,692; May 11; v. 274; p. 271.
Advertising. Securing depth and relief for commercial. H. R. Hyman and T. R. Messick. No. 1,339,892; May 11; v. 274; p. 308.
Aeroplanes, airships, and other aircraft, Safety device for use with. A. A. Lewis. No. 1,339,828; May 11; v. 274; p. 296.
Air blower and distributer. W. A. Hoffman. No. 1,339,510; May 11; v. 274; p. 236.
Air-brake system. G. Macloskie. No. 1,339,962; May 11; v. 274; p. 322.
Airship-car. J. McKechnie. No. 1,339,570; May 11; v. 274; p. 247.
Airship, Dirigible. J. Janda. No. 1,340,053; May 11; v. 274; p. 338.
Alarm-controlling mechanism. L. M. Lewis. No. 1,339,567; May 11; v. 274; p. 247.
Aluminum, Tinning. A. L. Page. No. 1,339,710; May 11; v. 274; p. 274.
Amusement apparatus. E. S. Doughty. No. 1,339,502; May 11; v. 274; p. 234.
Amusement device. J. Van Camp. No. 1,339,871; May 11; v. 274; p. 304.
Anchor shank and shackle. W. M. Bateman. No. 1,340,002; May 11; v. 274; p. 329.
Anti-mouth-breathing device. J. W. Rothenberger. No. 1,339,865; May 11; v. 274; p. 303.
Arbor. F. J. Baldwin. No. 1,339,877; May 11; v. 274; p. 306.
Arithmetic, Apparatus for teaching. R. A. Jackson. No. 1,340,052; May 11; v. 274; p. 338.
Article-register. M. B. Diskin. No. 1,339,744; May 11; v. 274; p. 280.
Automobile attachment. E. G. Hantzsch. No. 1,339,822; May 11; v. 274; 295.
Automobile-brake. B. W. Olson. No. 1,339,524; May 11; v. 274; p. 238.
Automobile-brake mechanism. H. Josephson. No. 1,339,895; May 11; v. 274; p. 309.
Automobile-bumper. C. C. Helman. No. 1,339,756; May 11; v. 274; p. 283.
Automobile-jack. A. S. La Chapelle. No. 1,339,459; May 11; v. 274; p. 226.
Automobile-jack, rolling. G. H. Law. No. 1,339,827; May 11; v. 274; p. 296.
Automobile-lock. A. Jackson. No. 1,340,051; May 11; v. 274; p. 338.
Automobile spot-light. W. B. Haines. No. 1,339,954; May 11; v. 274; p. 320.
Automobile-tool. J. W. Wilkins. No. 1,339,612; May 11; v. 274; p. 255.
Automobiles, Audible theft-alarm signal for. E. B. Williams. No. 1,339,873; May 11; v. 274; p. 305.
Automobiles, Combined rain and glare guard for windshields of. L. W. Lockwood. No. 1,339,770; May 11; v. 274; p. 285.
Automobiles of the lighter class, Wheels for. E. K. Baker. No. 1,339,913; May 11; v. 274; p. 312.
Automobiles, Signal device for. R. Wetherill. No. 1,339,938; May 11; v. 274; p. 317.
Axle reconstruction. J. R. Fleming. No. 1,340,032; May 11; v. 274; p. 335.
Bag: *See*—
Coal-bag.
Bag-frame and hinge connection therefor. B. vom Elgen. No. 1,339,799; May 11; v. 274; p. 291.
Bag or suitcase. J. M. Katz. No. 1,339,653; May 11; v. 274; p. 263.
Bailer-bottoms, Blank and manufacture of. J. W. Sloan. No. 1,339,722; May 11; v. 274; p. 277.
Ball and making same. C. C. Wals. No. 1,339,992; May 11; v. 274; p. 327.
Ballast-shifting device, Automatic. H. A. Selah. No. 1,339,628; May 11; v. 274; p. 259.
Barrel-cleat. N. A. Ormes. No. 1,340,075; May 11; v. 274; p. 342.
Barrels and other similar receptacles, Head for. L. H. Davey. No. 1,340,023; May 11; v. 274; p. 333.
Barrels, Manufacturing paper. R. S. Bolger. No. 1,340,110; May 11; v. 274; p. 350.
Bath apparatus, Shower-. W. C. Booth. No. 1,339,593; May 11; v. 274; p. 252.
Battery cell, Storage-. J. C. Eichhorn. No. 1,339,442; May 11; v. 274; p. 223.
Battery plates, Separator for storage-. J. O. Luthy. No. 1,339,853; May 11; v. 274; p. 301.
Bean-harvesting machine. R. Sera. No. 1,339,674; May 11; v. 274; p. 268.
Bearing. J. G. Utz. No. 1,339,991; May 11; v. 274; p. 327.
Bearing, Carrier-. F. P. Sawders and J. G. Murray. No. 1,339,476; May 11; v. 274; p. 229.
Bearing, Disk-. J. E. Heintz. No. 1,339,455; May 11; v. 274; p. 225.
Bearing, Steering-post. G. E. Smith. No. 1,339,987; May 11; v. 274; p. 326.
Bearings, Manufacture of so-called cup-rings for anti-friction-. J. W. Schatz. No. 1,339,672; May 11; v. 274; p. 267.
Bed, Folding. R. Haight. No. 1,339,650; May 11; v. 274; p. 263.
Belt-machine. J. Wolny. No. 1,339,874; May 11; v. 274; p. 305.
Bell-ringer. L. La Munyon. No. 1,340,059; May 11; v. 274; p. 339.
Belt, Conveyer. J. C. Frey. No. 1,339,646; May 11; v. 274; p. 262.
Belt retaining and tightening device, Fan-. C. Johnson. No. 1,339,893; May 11; v. 274; p. 308.
Belt, Traction-. J. W. Porter and R. L. Arndt. No. 1,339,786; May 11; v. 274; p. 288.
Beverage containers, Sealing-valve for carbonated-. C. M. Earl. No. 1,339,555; May 11; v. 274; p. 244.
Bin: *See*—
Grain-storage bin.
Binders, Bundle-carrier attachment for. J. G. Stewart. No. 1,340,088; May 11; v. 274; p. 345.
Bitstock feeding attachment. K. W. Karlsson. No. 1,339,958; May 11; v. 274; p. 321.
Blocks: *See*—
Bunk-block.
Cutting-block.
Printing-block.
Pulley-block.
Board: *See*—
Game-board.
Ironing-board.
Teeter-board.
Board-filling machine. C. A. Brewer. No. 1,339,595; May 11; v. 274; p. 252.
Boat-launching apparatus. C. H. Fuller. No. 1,339,647; May 11; v. 274; p. 262.
Bobbin-cleaning machine. C. L. Hicks. No. 1,339,888; May 11; v. 274; p. 308.
Boiler and still, Combination. R. S. Mears. No. 1,339,470; May 11; v. 274; p. 228.
Boiler-tube and end-plate connection. C. S. Coleman. No. 1,340,118; May 11; v. 274; p. 351.
Boiler-tube end section. C. S. Coleman. No. 1,339,739; May 11; v. 274; p. 279.
Bomb-dropping device. J. H. Barr. No. 1,339,432; May 11; v. 274; p. 220.
Books, Blotting attachment for check-. A. Warshauer. No. 1,339,937; May 11; v. 274; p. 317.
Boot and shoe. J. B. Hurteau. No. 1,340,049; May 11; v. 274; p. 338.
Boots and shoes and preparing same, Protecting-covering for. E. Lionne. No. 1,339,462; May 11; v. 274; p. 227.
Bottle hanger, Milk-. O. A. Smith. No. 1,339,792; May 11; v. 274; p. 289.
Bowling-alley. C. W. Stevens. No. 1,339,425; May 11; v. 274; p. 219.
Box: *See*—
File-box.
Journal-box
Sound-box.
Box. N. O. Kennlker and F. A. Fritze, Jr. No. 1,340,119; May 11; v. 274; p. 352.
Box-operating mechanism. W. Zeedyk. No. 1,339,999; May 11; v. 274; p. 328.
Brace: *See*—
Silo-brace.

Bracelet-gage. C. H. Kemper. No. 1,339,896; May 11; v. 274; p. 309.
Bracket: *See*—
Scaffold-bracket.
Brake: *See*—
Automobile-brake. Electropneumatic brake.
Vacuum and compressed-air brake.
Brake apparatus, Controller for electropneumatic. F. Goff. No. 1,339,754; May 11; v. 274; p. 282.
Brake-beam support. T. L. Burton. No. 1,340,008; May 11; v. 274; p. 330.
Brake-beam support. T. L. Burton. No. 1,340,009; May 11; v. 274; p. 330.
Brake-beam support. T. L. Burton. No. 1,340,010; May 11; v. 274; p. 310.
Brake mechanism. A. H. Peycke. No. 1,339,414; May 11; v. 274; p. 217.
Brake-rigging. A. H. Peycke. No. 1,339,415; May 11; v. 274; p. 217.
Brake-rigging arrangement. A. H. Peycke. No. 1,339,413; May 11; v. 274; p. 217.
Brake supporting and leveling device. A. H. Peycke. No. 1,339,416; May 11; v. 274; p. 217.
Brooch, Finishing-. F. J. Lapointe. No. 1,339,657; May 11; v. 274; p. 264.
Brooms, Duster attachment for. D. R. Kelly. No. 1,339,767; May 11; v. 274; p. 285.
Brush. J. Gasser. No. 1,340,040; May 11; v. 274; p. 336.
Brush. T. W. Johnson. No. 1,339,894; May 11; v. 274; p. 309.
Brush, Combination-. W. S. Dunaway. No. 1,339,745; May 11; v. 274; p. 280.
Brush, Fountain-. W. Grace. No. 1,340,043; May 11; v. 274; p. 337.
Bucket-car. C. W. Schworm. No. 1,339,584; May 11; v. 274; p. 250.
Building construction. T. Depatie. No. 1,339,596; May 11; v. 274; p. 252.
Building construction. H. Hauss. No. 1,339,388; May 11; v. 274; p. 212.
Bundles, &c., Machine for tying. E. W. Jenkins. No. 1,339,396; May 11; v. 274; p. 213.
Bunk-block. W. G. Kelly. No. 1,340,055; May 11; v. 274; p. 339.
Burner: *See*—
Crude-oil burner. Oil-burner.
Gas and crude-oil burner. Wood-refuse burner.
Bushing-holder. V. Forsman and E. Danielson. No. 1,339,448; May 11; v. 274; p. 224.
Button, Cuff-. O. Pullen. No. 1,339,713; May 11; v. 274; p. 275.
Button-fastener. A. Moses. No. 1,340,073; May 11; v. 274; p. 342.
Cabinet. C. Bergmann. No. 1,339,842; May 11; v. 274; p. 299.
Cabinet, Sewing-machine. J. Dianiska. No. 1,339,501; May 11; v. 274; p. 234.
Cable structure and making same, Bonded-wire-. R. C. Pierce. No. 1,339,417; May 11; v. 274; p. 217.
Calculating-machine. C. Birth. No. 1,339,542; May 11; v. 274; p. 242.
Calendar. A. Latler. No. 1,339,401; May 11; v. 274; p. 214.
Can: *See*—
Oil-can.
Cane-crushing apparatus. H. Hurter. No. 1,339,600; May 11; v. 274; p. 253.
Cap, Stovepipe-. P. Fojtik. No. 1,340,033; May 11; v. 274; p. 335.
Car-coupling. E. Vinograd and M. Groten. No. 1,339,489; May 11; v. 274; p. 231.
Cars, Draft-rigging for railway-. W. J. Regan. No. 1,339,714; May 11; v. 274; p. 275.
Cars, Fan-belt guide for Ford and other. P. C. Morris. No. 1,339,408; May 11; v. 274; p. 216.
Carbureter. J. H. Lytle and J. J. McFarland. No. 1,339,403; May 11; v. 274; p. 215.
Carbureter. R. S. Smith. No. 1,340,123; May 11; v. 274; p. 352.
Carbureters, Dust-collector for. C. H. Stinson. No. 1,339,609; May 11; v. 274; p. 255.
Carriages, Collapsible screen for baby-. L. N. Sperling and C. J. Harris. No. 1,339,527; May 11; v. 274; p. 239.
Carriages, Running-gear for children's. C. A. Lindberg. No. 1,339,961; May 11; v. 274; p. 321.
Carrier: *See*—
Sleigh-carrier.
Carrier and producing same, Pocketed. G. W. Spalding. No. 1,339,794; May 11; v. 274; p. 290.
Carrier and producing same, Pocketed. G. W. Spalding. No. 1,339,795; May 11; v. 274; p. 290.
Carrier-receptacle. R. P. Orr. No. 1,340,077; May 11; v. 274; p. 343.
Cart. J. Hintz. No. 1,339,624; May 11; v. 274; p. 258.
Case: *See*—
Egg-case.
Caster, Adjustable. C. S. Beardsley. No. 1,339,605; May 11; v. 274; p. 292.
Casting of aluminum and another metal, Making a composite. H. B. Hiteshaw. No. 1,339,956; May 11; v. 274; p. 321.
Catalysts, Manufacture of. J. Boyce. No. 1,339,686; May 11; v. 274; p. 270.
Celluloid insulation. M. D. Sweet. No. 1,339,835; May 11; v. 274; p. 298.
Cellulose-acetate solutions, Production of. T. Tyrer. No. 1,339,728; May 11; v. 274; p. 277.
Chair: *See*—
Opera-chair.
Chains, Weld-testing device for. E. J. von Henke. No. 1,339,610; May 11; v. 274; p. 255.
Check, Door-. J. C. Schmidt. No. 1,339,479; May 11; v. 274; p. 230.
Chopper: *See*—
Cotton-chopper.
Chuck, Electromagnetic. L. W. Dunbar. No. 1,339,553; May 11; v. 274; p. 244.
Circuit-breaker. F. W. Roller. No. 1,339,981; May 11; v. 274; p. 325.
Circuit-controller. C. T. Henderson. No. 1,339,456; May 11; v. 274; p. 225.
Clamp: *See*—
Wire-line clamp.
Clamp. A. Link. No. 1,339,830; May 11; v. 274; p. 297.
Cleaner: *See*—
Comb-cleaner.
Cleansing and sterilizing preparation. C. E. North. No. 1,339,783; May 11; v. 274; p. 288.
Clevis. C. Bettger. No. 1,340,105; May 11; v. 274; p. 348.
Closet-seat device. W. E. Sloan. No. 1,339,585; May 11; v. 274; p. 250.
Clothes-hook. A. B. Claflin. No. 1,340,014; May 11; v. 274; p. 331.
Clothesline-supporter. E. F. Markham. No. 1,340,070; May 11; v. 274; p. 341.
Clothespin. J. L. Whitted. No. 1,340,095; May 11; v. 274; p. 346.
Clutch. S. O. White. No. 1,339,801; May 11; v. 274; p. 291.
Clutch and fuel supply control mechanism. E. V. and F. T. Collins. No. 1,339,435; May 11; v. 274; p. 221.
Clutch, Automatically-releasing. J. F. Stowe. No. 1,340,124; May 11; v. 274; p. 353.
Coal-bag. H. Josephson. No. 1,339,851; May 11; v. 274; p. 301.
Cock. F. M. P. Blache. No. 1,340,107; May 11; v. 274; p. 349.
Cock, Gas-. G. H. Harris. No. 1,339,882; May 11; v. 274; p. 307.
Coil-box protector. H. E. S. Lorenz. No. 1,339,568; May 11; v. 274; p. 247.
Coin-wrapping machine. A. V. Chamberlin. No. 1,339,808; May 11; v. 274; p. 293.
Comb. S. G. Tankins. No. 1,339,632; May 11; v. 274; p. 259.
Comb-cleaner. G. Rechter. No. 1,339,863; May 11; v. 274; p. 303.
Combination-lock. G. B. Poindexter. No. 1,339,668; May 11; v. 274; p. 266.
Conductors, Support for line-. L. E. Hendee. No. 1,339,391; May 11; v. 274; p. 212.
Container. J. S. Peoples. No. 1,340,078; May 11; v. 274; p. 343.
Container for comminuted material. H. B. Pruden. No. 1,339,977; May 11; v. 274; p. 324.
Control apparatus. T. S. Pukerud. No. 1,339,906; May 11; v. 274; p. 311.
Control brake equipment, Remote-. W. V. Turner. No. 1,339,680; May 11; v. 274; p. 269.
Control system. J. A. Clarke, Jr. No. 1,339,945; May 11; v. 274; p. 319.
Control system. R. E. Hellmund. No. 1,339,929; May 11; v. 274; p. 315.
Conveyer system. F. L. Stuart. No. 1,339,486; May 11; v. 274; p. 231.
Core lamination-sections, Production of. M. O. Troy. No. 1,339,990; May 11; v. 274; p. 327.
Corking-machine, Automatic. H. G. Monkhorst. No. 1,339,904; May 11; v. 274; p. 310.
Corn-husking machine, Snapping-rolls for. L. A. Butterfield. No. 1,339,737; May 11; v. 274; p. 279.
Cotton-chopper. J. J. and O. J. Kriel. No. 1,340,057; May 11; v. 274; p. 339.
Cotton cullers, Seed-. J. T. Lawrence. No. 1,340,063; May 11; v. 274; p. 340.
Couch. E. P. Smith. No. 1,339,608; May 11; v. 274; p. 255.
Counter, Dispensing-. W. L. Humphreys. No. 1,339,652; May 11; v. 274; p. 263.
Coupling: *See*—
Car-coupling. Hose-coupling.
Crude-oil burner. B. F. Runyan. No. 1,339,579; May 11; v. 274; p. 249.
Crusher: *See*—
Single-roll crusher.
Cultivator, One-horse sulky-. A. W. Reynolds. No. 1,339,864; May 11; v. 274; p. 303.
Cup: *See*—
Priming-cup.
Current separating process and device, Upward-. C. Allen. No. 1,339,683; May 11; v. 274; p. 269.
Cushion-seat. J. J. Wiselogel. No. 1,339,537; May 11; v. 274; p. 241.
Cutter: *See*—
Pipe-cutter.

Cutter. G. J. Pfister. No. 1,340,137; May 11; v. 274; p. 355.
Cutter-bar and bushing therefor. F. J. Lapointe. No. 1,339,656; May 11; v. 274; p. 264.
Cutter-clearance gage. W. Dallas. No. 1,340,022; May 11; v. 274; p. 333.
Cutting-block. C. F. Connor. No. 1,340,018; May 11; v. 274; p. 332.
Cyanid, Making sodium. A. Kaufman. No. 1,339,706; May 11; v. 274; p. 274.
Cylinders, Portable boring and grinding device for automobile. W. S. Myers and A. L. Smith. No. 1,339,409; May 11; v. 274; p. 216.
Die: *See*—
Universal die.
Damper control, Automatic. W. L. Mersfelder. No. 1,339,571; May 11; v. 274; p. 247.
Damper-regulator. G. W. Bigelow. No. 1,340,106; May 11; v. 274; p. 349.
Davits, Mechanism for turning ships'. A. Welin. No. 1,339,532; May 11; v. 274; p. 240.
Dental-plate attachment. I. J. Dresch. No. 1,339,812; May 11; v. 274; p. 293.
Dental plate or denture. J. Williams. No. 1,339,640; May 11; v. 274; p. 261.
Dental work, Removable bridge for. A. S. Stone. No. 1,340,089; May 11; v. 274; p. 345.
Diaper, Child's waterproof. E. D. Marsh. No. 1,339,602; May 11; v. 274; p. 253.
Diestock. L. W. Nonneman. No. 1,339,473; May 11; v. 274; p. 229.
Direction-indicator. J. H. Rabbitt. No. 1,340,081; May 11; v. 274; p. 343.
Direction-indicator. G. W. Ruhl. No. 1,340,082; May 11; v. 274; p. 344.
Dispensing apparatus. T. Tripolitis. No. 1,339,635; May 11; v. 274; p. 260.
Distributing-machine. O. P. Greenwood. No. 1,339,557; May 11; v. 274; p. 244.
Distributing systems, Protective means for. C. L. Fortescue. No. 1,339,923; May 11; v. 274; p. 314.
Door-hanger. I. R. Salladay. No. 1,339,790; May 11; v. 274; p. 289.
Door-latching means. E. H. Belden. No. 1,339,492; May 11; v. 274; p. 232.
Door-securer. T. C. Moore. No. 1,339,856; May 11; v. 274; p. 302.
Doors, Power-operated mechanism for moving. H. Rowntree. No. 1,339,671; May 11; v. 274; p. 267.
Dough-compressor. R. R. Tyson. No. 1,339,637; May 11; v. 274; p. 260.
Drag. C. E. Nelson. No. 1,339,664; May 11; v. 274; p. 266.
Drill: *See*—
Pneumatic drill.
Drill-machine. E. J. Lees. No. 1,339,461; May 11; v. 274; p. 226.
Drills, holders-on, and other appliances, Throttle-valve handle for. L. Sykes. No. 1,339,426; May 11; v. 274; p. 219.
Drying materials. H. B. Lowden. No. 1,339,771; May 11; v. 274; p. 286.
Dust-separator. H. Hill and J. B. Dyer. No. 1,339,757; May 11; v. 274; p. 283.
Dynamo-electric machine. J. L. M. Yardley. No. 1,339,910; May 11; v. 274; p. 312.
Edge-trimming machine. C. C. Blake. No. 1,339,878; May 11; v. 274; p. 306.
Efficiency-recorder. M. H. Avram. No. 1,339,381; May 11; v. 274; p. 211.
Egg-case. J. B. White. No. 1,339,430; May 11; v. 274; p. 220.
Egg, Sanitary nest-. L. C. Bouma. No. 1,339,543; May 11; v. 274; p. 242.
Egg-washer. M. J. Corcoran. No. 1,340,020; May 11; v. 274; p. 332.
Electric apparatus, Starting means for. T. A. Barrett. No. 1,339,914; May 11; v. 274; p. 313.
Electric-circuit switch. I. Deutsch. No. 1,339,922; May 11; v. 274; p. 314.
Electric circuits, Controlling means for. W. O. Lum. No. 1,339,466; May 11; v. 274; p. 227.
Electric distribution systems, Protection of. P. V. Hunter and J. R. Beard. No. 1,339,394; May 11; v. 274; p. 213.
Electric furnace. J. Hughes. No. 1,339,393; May 11; v. 274; p. 213.
Electric machine, Dynamo-. S. R. Bergman. No. 1,340,004; May 11; v. 274; p. 329.
Electric machine, Dynamo-. S. R. Bergman. No. 1,340,005; May 11; v. 274; p. 330.
Electric switch. M. Guett. No. 1,339,820; May 11; v. 274; p. 295.
Electric switch. E. H. Pierson. No. 1,339,976; May 11; v. 274; p. 324.
Electric switch, Liquid-operated. W. H. Smith. No. 1,340,086; May 11; v. 274; p. 344.
Electrical appliance. W. A. Harvey. No. 1,339,847; May 11; v. 274; p. 300.
Electrical conductor. H. A. Douglas. No. 1,339,694; May 11; v. 274; p. 271.
Electrical device. P. Mac Gahan. No. 1,339,902; May 11; v. 274; p. 310.
Electrical energy, Method of and means for controlling. E. F. W. Alexanderson. No. 1,340,101; May 11; v. 274; p. 348.
Electrical regulator. A. A. Tirrill. No. 1,339,936; May 11; v. 274; p. 317.
Electrical switch. L. Airhart. No. 1,339,911; May 11; v. 274; p. 312.
Electroconducting-coil. C. W. Dunham. No. 1,340,027; May 11; v. 274; p. 334.
Electrodes for soldering and depositing metals by the electric arc, Manufacture of. E. H. Jones. No. 1,339,515; May 11; v. 274; p. 237.
Electrodes, Means for removing deposits from. A. F. Moston. No. 1,339,471; May 11; v. 274; p. 228.
Electrolytic alternating-current chemical rectifier. L. E. Seeley. No. 1,339,907; May 11; v. 274; p. 311.
Electromagnet apparatus. H. A. Lewis. No. 1,339,900; May 11; v. 274; p. 310.
Electromagnetic device. D. D. Miller. No. 1,339,778; May 11; v. 274; p. 287.
Electromechanical switch. W. J. Burchett. No. 1,339,844; May 11; v. 274; p. 299.
Electromechanical switch. W. J. Burchett. No. 1,339,845; May 11; v. 274; p. 299.
Electropneumatic brake. W. V. Turner. No. 1,339,681; May 11; v. 274; p. 269.
Engine: *See*—
Internal-combustion engine.
Steam-engine.
Engine-fan-belt guard. E. B. Brackett. No. 1,340,113; May 11; v. 274; p. 350.
Engine of the rotary type. G. T. Williams. No. 1,339,730; May 11; v. 274; p. 278.
Engines, Air-cleaner for internal-combustion. A. R. Lambert. No. 1,340,058; May 11; v. 274; p. 339.
Engines, Air-filter for automatic. J. F. Swarens. No. 1,339,726; May 11; v. 274; p. 277.
Engines, Apparatus for starting internal-combustion. A. I. Odier. No. 1,339,411; May 11; v. 274; p. 216.
Engines, Priming attachment for internal-combustion. E. O. Steinbauer. No. 1,340,087; May 11; v. 274; p. 345.
Engines, Tappet for internal-combustion. G. R. Rich. No. 1,339,421; May 11; v. 274; p. 218.
Engines, Valve mechanism of internal-combustion. H. L. Milner and A. R. Beeby. No. 1,339,406; May 11; v. 274; p. 215.
Envelop. W. Hire. No. 1,339,392; May 11; v. 274; p. 213.
Etching apparatus. C. R. Hendricks. No. 1,339,457; May 11; v. 274; p. 226.
Ether-wave control, System of. J. H. Hammond, Jr. No. 1,339,927; May 11; v. 274; p. 315.
Ethylene, Compression, storage, &c. of. A. A. Backhaus. No. 1,339,431; May 11; v. 274; p. 220.
Excavator-dipper. M. E. Pugh. No. 1,339,606; May 11; v. 274; p. 254.
Excavator, Portable. A. A. Briggs. No. 1,339,687; May 11; v. 274; p. 270.
Eyes, Machine for forming spring-. W. Evans. No. 1,339,443; May 11; v. 274; p. 223.
Fabric: *See*—
Spring fabric. Wire fabric.
Fabric and making same, Open-mesh joint in textile and other. L. Bruger. No. 1,340,117; May 11; v. 274; p. 351.
Fabric and yarn and making, Pile. A. G. From. No. 1,339,753; May 11; v. 274; p. 282.
Fabric band, Laminated cohesive interwound. L. A. Subers. No. 1,339,869; May 11; v. 274; p. 304.
Faucet. A. Landgrebe. No. 1,340,060; May 11; v. 274; p. 340.
Faucet-supporting collar. S. Rosenfeld. No. 1,339,982; May 11; v. 274; p. 325.
Faucet-supporting means. M. C. Rosenfeld. No. 1,339,578; May 11; v. 274; p. 249.
Feed-cutters, Sharpener for. C. A. Holm. No. 1,339,511; May 11; v. 274; p. 236.
Feed device, Liquid-. A. L. Ball. No. 1,339,734; May 11; v. 274; p. 279.
Feeding and guiding cloth, Appliances for. R. M. Hunter. No. 1,339,826; May 11; v. 274; p. 296.
Feeding device, Animal-. E. S. Johnson. No. 1,339,763; May 11; v. 274; p. 284.
Fencepost. W. S. Gresham. No. 1,339,819; May 11; v. 274; p. 295.
Fender: *See*—
Ship-fender.
Fender. S. P. Taylor. No. 1,339,586; May 11; v. 274; p. 250.
Fiber from yucca, Machine for extracting. H. H. Holdaway. No. 1,339,825; May 11; v. 274; p. 296.
Filament, Shaped. D. K. Wright. No. 1,339,998; May 11; v. 274; p. 328.
File-box. H. C. Fosberg. No. 1,340,034; May 11; v. 274; p. 335.
File box and follower. H. C. Fosberg. No. 1,340,035; May 11; v. 274; p. 335.
File-handle. J. E. Lovell. No. 1,339,658; May 11; v. 274; p. 264.
Fishing-tackle. H. England. No. 1,339,697; May 11; v. 274; p. 272.
Fishing-tackle. E. A. and C. T. Pflueger. No. 1,339,832; May 11; v. 274; p. 297.

Flag-holder, Adjustable. T. W. Saltmarsh and H. F. Gonzalez. No. 1,339,833; May 11; v. 274; p. 297.
Flag, pennant, or banner floating bracket. H. Johnson and A. D. C. Walker. No. 1,339,849; May 11; v. 274; p. 300.
Flame-projector apparatus. H. Cave and J. L. Anderson. No. 1,340,012; May 11; v. 274; p. 331.
Flange-frog. R. E. Einstein. No. 1,339,597; May 11; v. 274; p. 253.
Flange-frog, Cast-metal. R. E. Einstein. No. 1,339,598; May 11; v. 274; p. 253.
Flue, Safe end. C. S. Coleman. No. 1,339,740. May 11; v. 274; p. 279.
Flue-stopper. M. A. Tracy. No. 1,340,090. May 11; v. 274; p. 345.
Fluid-pressure-brake device. W. V. Turner. No. 1,339,679; May 11; v. 274; p. 268.
Fly-guard. E. L. McManus. No. 1,340,069; May 11; v. 274; p. 341.
Fly-screen, Roller. F. J. Baukus. No. 1,340,103; May 11; v. 274; p. 348.
Flytrap, Cattle-. C. E. Merrell and E. E. Hall. No. 1,340,071; May 11; v. 274; p. 342.
Folding table. H. F. Havens, Sr. No. 1,339,389; May 11; v. 274; p. 212.
Folding universal table. A. W. Lee. No. 1,340,065; May 11; v. 274; p. 340.
Footwear, Manufacture of hard toe-blocks for. G. Verhoogen. No. 1,339,529; May 11; v. 274; p. 239.
Form, Blank. H. M. Branson. No. 1,339,942; May 11; v. 274; p. 318.
Form, Record-. G. Wilmot. No. 1,339,995; May 11; v. 274; p. 328.
Fountain, Portable hog-. C. Siebring. No. 1,340,085; May 11; v. 274; p. 344.
Fuel dispenser and spreader. J. Erwin. No. 1,340,028; May 11; v. 274; p. 334.
Fuel, Economization of hydrocarbon-engine. F. Luke. No. 1,339,465; May 11; v. 274; p. 227.
Furnace: *See*—
Electric furnace. Open-hearth furnace.
Hot-air furnace.
Furnace. H. B. Kinnear and A. J. Townsend. No. 1,339,564; May 11; v. 274; p. 246.
Furnace. H. W. Nield. No. 1,339,859; May 11; v. 274; p. 302.
Furnace for the annealing, hardening, quenching, or like heat treatment of metals. A. Smallwood. No. 1,339,434; May 11; v. 274; p. 219.
Furnace, Operating an electric. M. R. Trembour. No. 1,339,428; May 11; v. 274; p. 220.
Furnace-regulator, Time-controlled. H. A. Mailloux. No. 1,339,468; May 11; v. 274; p. 228.
Furnaces, Flat arch for. O. Wundrack. No. 1,339,615; May 11; v. 274; p. 256.
Furniture, Foldable. A. Rapp. No. 1,339,669; May 11; v. 274; p. 267.
Furniture, Ventilated, upholstered. F. O. White. No. 1,339,611; May 11; v. 274; p. 255.
Fuse, Electric. T. E. Murray. No. 1,339,965; May 11; v. 274; p. 322.
Fuse-plug. R. S. Porter. No. 1,340,080; May 11; v. 274; p. 343.
Gage: *See*—
Bracelet-gage. Thread-gage.
Cutter-clearance gage.
Gage. H. B. Douglass. No. 1,339,384; May 11; v. 274; p. 211.
Gage. O. W. Thompson. No. 1,339,989; May 11; v. 274; p. 327.
Gaging tapering bodies. Device for. F. E. Voigt. No. 1,339,639; May 11; v. 274; p. 261.
Game. M. A. Bartlett. No. 1,340,001; May 11; v. 274; p. 329.
Game, Ball. R. F. Downey. No. 1,339,846; May 11; v. 274; p. 300.
Game-board, Educational. W. D. Kemp. No. 1,339,399; May 11; v. 274; p. 214.
Garage. E. M. Hamilton and M. Hamburger. No. 1,340,045; May 11; v. 274; p. 337.
Gas and crude-oil burner, Combustion. R. F. Runyan. No. 1,339,580; May 11; v. 274; p. 274; v. 249.
Gas mixtures contahing oxids of nitrogen, Process of and apparatus for treating. C. L. Burdick. No. 1,339,494; May 11; v. 274; p. 232.
Gas-saver. G. Eagar. No. 1,339,441; May 11; v. 274; p. 222.
Gases, Separating suspended particles from. W. A. Schmidt. No. 1,339,480; May 11; v. 274; p. 230.
Gasket. G. S. Garren. No. 1,339,599; May 11; v. 274; p. 253.
Gasolene manufacture. J. W. Trotter. No. 1,339,727; May 11; v. 274; p. 277.
Gate-fastener. A. Nellis. No. 1,339,781; May 11; v. 274; p. 288.
Gear-cutting machine. C. E. Derr. No. 1,339,921; May 11; v. 274; p. 314.
Gear, Power-operated reversing-. J. H. Alter. No. 1,339,939; May 11; v. 274; p. 317.
Gear, roll, and the like. J. H. Carver. No. 1,340,011; May 11; v. 274; p. 331.
Gearing, Change-speed. H. P. Saunderson. No. 1,339,477; May 11; v. 274; p. 230.
Glass: *See*—
Headlight-glass.
Glass, Water-. E. H. Hulett. No. 1,339,561; May 11; v. 274; p. 245.
Glove and making same. G. P. Bosworth. No. 1,339,592; May 11; v. 274; p. 251.
Gluing-machine. G. McConnell. No. 1,339,467; May 11; v. 274; p. 228.
Goggles. F. Willson. No. 1,339,731; May 11; v. 274; p. 278.
Golf-ball marker. J. D. Lyon. No. 1,339,569; May 11; v. 274; p. 247.
Governor, Magneto-. T. J. Kresky. No. 1,339,655; May 11; v. 274; p. 264.
Grader, Road-. R. C. Cox. No. 1,339,548; May 11; v. 274; p. 243.
Grader, Road-. C. Speth. No. 1,339,866; May 11; v. 274; p. 304.
Grain-storage bin. L. H. Dickelman. No. 1,339,437; May 11; v. 274; p. 221.
Grenade, Hand-. A. G. Bergman. No. 1,339,735; May 11; v. 274; p. 279.
Grinder, Thread-. D. Fitzpatrick. No. 1,304,031; May 11; v. 274; p. 334.
Grinding apparatus, Cam-. H. W. Dunbar, A. Turner, and G. H. Smith. No. 1,339,746; May 11; v. 274; p. 281.
Grinding device, Portable. F. G. Peck. No. 1,340,120; May 11; v. 274; p. 352.
Grinding machine, Worm-. D. Fitzpatrick. No. 1,340,030; May 11; v. 274; p. 334.
Grinding-machines, Cross-feed mechanism for. C. H. Norton, A. Turner, and J. S. Wilcox, Jr. No. 1,339,860; May 11; v. 274; p. 302.
Grinding-wheels, Dressing-tool for. E. T. Gorham. No. 1,339,452; May 11; v. 274; p. 225.
Gripper-actuating mechanism. W. M. Kelly. No. 1,339,654; May 11; v. 274; p. 264.
Gun, Anti-aircraft. F. Bonaii. No. 1,340,111; May 11; v. 274; p. 350.
Gun, Grease-. H. M. Boe. No. 1,339,916; May 11; v. 274; p. 313.
Gun, Machine-. G. Hazelton. No. 1,339,390; May 11; v. 274; p. 212.
Guns, Flash-absorber for machine-. E. P. Woken. No. 1,339,614; May 11; v. 274; p. 256.
Guns, Mount or stand for machine-. G. Norman. No. 1,339,410; May 11; v. 274; p. 216.
Guns, Trigger for double-barrel. D. W. Strickland. No. 1,339,867; May 11; v. 274; p. 304.
Half-soles, Pattern for cutting. W. W. Gilbert. No. 1,339,702; May 11; v. 274; p. 273.
Hame and trace connector. C. A. Mikkin. No. 1,339,777; May 11; v. 274; p. 287.
Hammers, Staybolt-heading attachment for pneumatic-. E. O. Grimes, Jr., and F. Baltzley. No. 1,339,453; May 11; v. 274; p. 225.
Hammock or bed construction. A. B. Claflin. No. 1,340,015; May 11; v. 274; p. 331.
Handle: *See*—
File-handle.
Hanger: *See*—
Bottle-hanger. Door-hanger.
Harvester. C. J. Gardner. No. 1,339,924; May 11; v. 274; p. 314.
Harvester attachment. J. Schwartzkopf. No. 1,339,627; May 11; v. 274; p. 258.
Harrow, Rotary. J. Porteous. No. 1,339,605; May 11; v. 274; p. 254.
Headlight-glass. A. L. Morrison. No. 1,339,604; May 11; v. 274; p. 254.
Heat-interchange devices, Ribbed body for. H. Guyer. No. 1,339,385; May 11; v. 274; p. 211.
Heater and maintenance-wagon, Combination. H. P. Andresen. No. 1,340,131; May 11; v. 274; p. 354.
Heel, Shoe-. P. Diuk. No. 1,339,438; May 11; v. 274; p. 222.
Hog-feder. J. H. Winters. No. 1,340,096; May 11; v. 274; p. 346.
Hogshead or barrel, Collapsible. C. W. Floyd. No. 1,339,749; May 11; v. 274; p. 281.
Hook: *See*—
Clothes-hook.
Hook for use with chains. C. D. Schmidt. No. 1,339,986; May 11; v. 274; p. 326.
Horn. L. G. Hartdorn. No. 1,339,559; May 11; v. 274; p. 245.
Hose-coupling. A. A. Hart. No. 1,339,620; May 11; v. 274; p. 257.
Hose-reel. G. L. Perrine. No. 1,339,785; May 11; v. 274; p. 288.
Horse, Rocking-. J. W. Bellairs. No. 1,339,493; May 11; v. 274; p. 232.
Hot-air furnace. W. J. Doyle and J. J. Wollenhaupt. No. 1,340,134; May 11; v. 274; p. 355.
House: *See*—
Toy house.
Hydrocarbon-burner of the injection type, Liquid. A. A. Mohn. No. 1,339,709; May 11; v. 274; p. 274.
Hydrocarbon-motor. H. D. Church. No. 1,339,496; May 11; v. 274; p. 233.
Hydrocarbon-motor. H. D. Church. No. 1,339,497; May 11; v. 274; p. 233.

Hydrocarbon-motor. R. Huff. No. 1,339,512; May 11; v. 274; p. 236.
Hydrocarbon-motor. J. G. Vincent. No. 1,339,530; May 11; v. 274; p. 239.
Implement, Compound. F. Meyers. No. 1,339,405; May 11; v. 274; p. 215.
Impregnating apparatus. W. V. Lander. No. 1,339,400; May 11; v. 274; p. 214.
Indicator: *See*—
Direction-indicator.
Inner tube. J. M. and J. A. Dirienzo. No. 1,339,948; May 11; v. 274; p. 319.
Internal-combustion engine. E. A. Field, Jr. No. 1,339,447; May 11; v. 274; p. 224.
Internal-combustion engine. P. T. Houston. No. 1,339,760; May 11; v. 274; p. 283.
Internal-combustion engine. E. H. Kimball. No. 1,339,517; May 11; v. 274; p. 237.
Internal-combustion engine. A. J. Rowledge. No. 1,339,423; May 11; v. 274; p. 219.
Internal-combustion engine. J. S. Taylor. No. 1,339,870; May 11; v. 274; p. 304.
Iron composition. G. G. Marx. No. 1,339,469; May 11; v. 274; p. 228.
Ironing-board, Folding portable. L. L. Locke. No. 1,339,831; May 11; v. 274; p. 297.
Ironing-machines, Controlling mechanism for electric motors for. I. Bond. No. 1,339,917; May 11; v. 274; p. 313.
Jack: *See*—
Automatic jack. Lifting-jack.
Automobile-jack.
Jack. S. Santino. No. 1,339,582; May 11; v. 274; p. 249.
Jack. S. Santino. No. 1,339,583; May 11; v. 274; p. 249.
Jack. J. F. Willey. No. 1,339,613; May 11; v. 274; p. 256.
Jacquard mechanism. H. Janssen. No. 1,339,957; May 11; v. 274; p. 321.
Journal-box, Adjustable. S. A. Ayres. No. 1,340,102; May 11; v. 274; p. 348.
Key-ring attachment. H. Smith. No. 1,339,631; May 11; v. 274; p. 259.
Kiln. K. Himrod. No. 1,339,705; May 11; v. 274; p. 273.
Knitting-machine. E. Lippitt. No. 1,339,708; May 11; v. 274; p. 274.
Knitting-machines, Drop-stitch mechanism for. F. W. Robinson. No. 1,339,715; May 11; v. 274; p. 275.
Label-wiping mechanism. J. E. Johnson and C. H. Oslund. No. 1,339,764; May 11; v. 274; p. 284.
Lamp, Sanctuary. F. Quin. No. 1,339,788; May 11; v. 274; p. 289.
Lamp bases, Manufacturing and adjustment of contact-plates in Swan-. H. C. Ghijsen. No. 1,340,041; May 11; v. 274; p. 336.
Lamp construction. L. Schepmoes. No. 1,339,985; May 11; v. 274; p. 326.
Lamp, Household-. H. Galopin. No. 1,339,699; May 11; v. 274; p. 272.
Lamp, Incandescent. J. Judge. No. 1,340,054; May 11; v. 274; p. 339.
Lamp, Reflecting-. H. A. Douglas. No. 1,339,695; May 11; v. 274; p. 271.
Lathe-machine. P. V. Vernon. No. 1,339,836; May 11; v. 274; p. 298.
Lathe, Valve-. A. C. Savidge and F. D. Hatfield. No. 1,339,791; May 11; v. 274; p. 289.
Lathes, Micrometer gage or stop device for. W. H. Runge. No. 1,339,984; May 11; v. 274; p. 326.
Lathes, Relieving attachment for. W. H. Runge. No. 1,339,983; May 11; v. 274; p. 325.
Lather-edge-finishing machines and method therefor. F. W. Merrick. No. 1,339,776; May 11; v. 274; p. 286.
Leather, Manufacture of Mocha. L. Forse. No. 1,339,751; May 11; v. 274; p. 282.
Letter-sheet and envelop, Combined. M. A. Brandt. No. 1,340,114; May 11; v. 274; p. 351.
Lens blank, Ophthalmic-. A. J. Cross. No. 1,340,021; May 11; v. 274; p. 332.
Lens-mount. F. A. Persohn; No. 1,339,974; May 11; v. 274; p. 324.
Level, Protractor- E. L. Powell. No. 1,339,787; May 11; v. 274; p. 289.
Life-preserver. W. M. Deneau. No. 1,339,617; May 11; v. 274; p. 256.
Lifting-jack. L. J. Hall. No. 1,339,926; May 11; v. 274; p. 315.
Light: *See*—
Automobile spot-light. Vehicle-curtain light.
Link and strut, Fusible. L. M. Lewis. No. 1,339,829; May 11; v. 274; p. 297.
Liquid-vending apparatus. J. M. Miller. No. 1,339,522; May 11; v. 274; p. 238.
Lock: *See*—
Automobile-lock. Sash-lock
Combination-lock. Valve-lock.
Permutation-lock.
Lock. J. H. Shaw. No. 1,339,721; May 11; v. 274; p. 276.
Locking-switch. F. E. Getts. No. 1,339,506; May 11; v. 274; p. 235.
Locomotive booster-motor. H. L. Ingersoll. No. 1,339,395; May 11; v. 274; p. 213.
Locomotive-crane sander. T. H. Cochrane. No. 1,340,016; May 11; v. 274; p. 331.
Locomotives, Governor for booster-motors for. H. L. Ingersoll. No. 1,339,513; May 11; v. 274; p. 236.
Loom stop mechanism. W. H. Bahan, Jr. No. 1,339,841; May 11; v. 274; p. 299.
Looms, Shedding motion for. L. G. Sabbag. No. 1,339,716; May 11; v. 274; p. 275.
Lubricating device. A. L. Hansen. No. 1,339,619; May 11; v. 274; p. 257.
Machine-tool bed. P. V. Vernon. No. 1,339,937; May 11; v. 274; p. 298.
Mail-distributing device. R. J. and I. W. H. Hankins. No. 1,340,046; May 11; v. 274; p. 337.
Marks to articles, Machine for applying. F. G. Neal. No. 1,339,857; May 11; v. 274; p. 302.
Matches, Card-. C. L. Pfersch. No. 1,339,975; May 11; v. 274; p. 324.
Matter, Composition of. A. L. Straus. No. 1,339,528; May 11; v. 274; p. 239.
Mattress, Sanitary. C. S. Cooper. No. 1,339,880; May 11; v. 274; p. 306.
Mattresses, Sanitary cover-pad for. J. W. and M. B. Callahan. No. 1,339,738; May 11; v. 274; p. 279.
Measuring and cost-computing machine, Fabric-. L. Ehrlich. No. 1,339,748; May 11; v. 274; p. 281.
Measuring device, Fluid-. A. B. Wood. No. 1,339,909; May 11; v. 274; p. 311.
Measuring device, Fluid-. A. B. Wood. No. 1,339,997; May 11; v. 274; p. 328.
Meat-slicing machine. A. H. Heatzman. No. 1,339,623; May 11; v. 274; p. 258.
Metal brake-beam. T. L. Burton. No. 1,340,007; May 11; v. 274; p. 330.
Milk-can cover. M. O. Wisegarver. No. 1,340,097; May 11; v. 274; p. 347.
Milling-machine. E. L. Williams. No. 1,339,490; May 11; v. 274; p. 232.
Miter-cutting device. J. Dwyer. No. 1,339,747; May 11; v. 274; p. 281.
Mold-panel. N. F. Ambursen. No. 1,339,912; May 11; v. 274; p. 312.
Molding apparatus. A. A. Pauly. No. 1,339,712; May 11; v. 274; p. 275.
Molding device. E. L. Baker. No. 1,339,642; May 11; v. 274; p. 261.
Mop. A. W. Grant. No. 1,339,925; May 11; v. 274; p. 315.
Mop-head. I. M. Kaufman. No. 1,339,398; May 11; v. 274; p. 214.
Motion of one type into motion of another type, Apparatus for the conversion of. A. Barr and W. Stroud. No. 1,339,643; May 11; v. 274; p. 261.
Motion-registering apparatus. L. T. Foss. No. 1,340,036; May 11; v. 274; p. 335.
Motor: *See*—
Hydrocarbon-motor. Turbine-motor.
Locomotive booster-motor.
Motor-controller. C. T. Henderson. No. 1,339,930; May 11; v. 274; p. 316.
Motors, Cam-shaft structure and oiling mechanism for internal-combustion. A. Winton. No. 1,339,839; May 11; v. 274; p. 298.
Motors, Control system for single-phase alternating-current. R. E. Helmund. No. 1,339,928; May 11; v. 274; p. 315.
Motorcycle. E. V. Hammond. No. 1,339,387; May 11; v. 274; p. 212.
Musical instrument. F. Zamecnik. No. 1,340,098; May 11; v. 274; p. 347.
Musical instruments, Pneumatic action for. W. C. Collignon. No. 1,340,017; May 11; v. 274; p. 332.
Musical instruments, String for. C. Graiver. No. 1,339,953; May 11; v. 274; p. 320.
Needle, Knitting-machine. P. P. La Montague. No. 1,339,959; May 11; v. 274; p. 321.
Non-skid for wheels. F. Huda. No. 1,340,048; May 11; v. 274; p. 337.
Nozzle-holder. M. Havey. No. 1,339,885; May 11; v. 274; p. 307.
Nursery-seat. A. A. Howe. No. 1,339,891; May 11; v. 274; p. 308.
Nut-marking machine. J. de Barros. No. 1,339,881; May 11; v. 274; p. 306.
Offsetting-press. H. Miller. No. 1,340,138; May 11; v. 274; p. 355.
Oil-burner, Vapor. C. W. Turnbull and J. H. Fox. No. 1,340,038; May 11; v. 274; p. 336.
Oil-can. J. D. Karle. No. 1,339,765; May 11; v. 274; p. 284.
Oil-refiner. J. S. Leigh. No. 1,339,769; May 11; v. 274; p. 285.
Oil, Removing odor from fish-. U. Ioka. No. 1,340,050; May 11; v. 274; p. 338.
Oil-washer, Leak-proof. C. J. Hunstad. No. 1,339,762; May 11; v. 274; p. 284.
Oiler for air-compressors. E. C. Barchard. No. 1,339,540; May 11; v. 274; p. 241.
Oiler, Leaf-spring. W. M. White and A. Gauslin. No. 1,339,872; May 11; v. 274; p. 305.
Oiler, Spring-. W. H. Brown. No. 1,339,546; May 11; v. 274; p. 243.
Oiler, Spring-. G. L. Woodjard. No. 1,339,538; May 11; v. 274 p. 241.
Oiler, Tractor-tread. P. F. Naftel and H. H. Garner. No. 1,339,523; May 11; v. 274; p. 238.

Open-hearth furnace. F. B. McKune. No. 1,339,855; May 11; v. 274; p. 302.
Opera-chair. F. Fessler. No. 1,339,445; May 11; v. 274; p. 223.
Order-blank, Tailor's. H. C. Dixon. No. 1,339,693; May 11; v. 274; p. 271.
Organ, Mouth-. E. Lamprecht. No. 1,339,960; May 11; v. 274; p. 321.
Oven, Multiple baker's. O. Wundrack. No. 1,339,616; May 11; v. 274; p. 256.
Oven, Sectional. A. Maehler. No. 1,339,601; May 11; v. 274; p. 253.
Oven with regenerator. C. Berthelot. No. 1,340,104; May 11; v. 274; p. 348.
Ovens, Bottle-feeding mechanism for annealing-. W. Stender. No. 1,339,834; May 11; v. 274; p. 297.
Ovens, Thermostatic fuel-regulating device for gas-. B. E. Meacham. No. 1,339,964; May 11; v. 274; p. 322.
Overshoe. H. Westling. No. 1,339,994; May 11; v. 274; p. 327.
Package, Stationery-. H. R. Thorpe. No. 1,339,908; May 11; v. 274; p. 311.
Pan: *See*—
Roasting-pan.
Paper-file. C. H. Lee. No. 1,339,768; May 11; v. 274; p. 285.
Pencils, Eraser-holding clip for. P. Lazarides. No. 1,339,707; May 11; v. 274; p. 274.
Permutation-lock. A. B. Fidrockl. No. 1,339,446; May 11; v. 274; p. 223.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,558; May 11; v. 274; p. 245.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,648; May 11; v. 274; p. 262.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,649; May 11; v. 274; p. 263.
Phonograph-records, Apparatus for cleaning. E. V. George. No. 1,339,700; May 11; v. 274; p. 272.
Phonograph-tone modifier. M. Maltz. No. 1,339,404; May 11; v. 274; p. 215.
Photochemical apparatus. W. O. Snelling. No. 1,339,675; May 11; v. 274; p. 268.
Piano and other string instruments, Hitch-pin for. F. J. Colmus. No. 1,339,689; May 11; v. 274; p. 270.
Piano-control apparatus, Player-. M. S. Howard. No. 1,339,848; May 11; v. 274; p. 300.
Pianos, Expression mechanism for mechanical. C. Contal. No. 1,340,019; May 11; v. 274; p. 332.
Pick. J. A. Velchansky and S. Stefaniak. No. 1,339,638; May 11; v. 274; p. 260.
Picture hanger and hook remover. M. M. Ferguson. No. 1,339,444; May 11; v. 274; p. 223.
Pictures, plaques, etc., Support for. H. E. Green. No. 1,339,703; May 11; v. 274; p. 273.
Piles with concrete, Apparatus for covering submerged. F. M. White and H. E. Rieger. No. 1,339,535; May 11; v. 274; p. 240.
Pin-dispenser. B. S. Elrod. No. 1,339,503; May 11; v. 274; p. 234.
Pipe-cutter. J. F. Wright. No. 1,339,641; May 11; v. 274; p. 261.
Pipe-supporting means. C. M. Buller. No. 1,339,547; May 11; v. 274; p. 243.
Pipe-wrench. A. Tilscher, Jr. No. 1,340,092; May 11; v. 274; p. 345.
Pipes, Fluid-tight joint for steam-. T. G. Tulloch. No. 1,339,636; May 11; v. 274; p. 260.
Pistol. L. M. Egts. No. 1,339,949; May 11; v. 274; p. 319.
Pistol. H. L. Welch. No. 1,340,127. May 11; v. 274; p. 353.
Piston-rings, Making. —A. A. Fosston. No. 1,340,037; May 11; v. 274; p. 335.
Piston, Steam-heated. A. D. Skinner. No. 1,339,629; May 11; v. 274; p. 259.
Pistons and piston-rods, Connecting means for. L. Sykes. No. 1,339,427; May 11; v. 274; p. 219.
Planter. E. W. Cole. No. 1,339,688; May 11; v. 274; p. 270.
Planter, Corn-. J. C. Powers. No. 1,339,576; May 11; v. 274; p. 248.
Plastic composition. H. H. Dow. No. 1,339,552; May 11; v. 274; p. 244.
Platinum substitute in electrical terminals, Composition of matter for. F. A. Fahrenwald. No. 1,399,505; May 11; v. 274; p. 235.
Plow, Tractor-. J. B. Mason. No. 1,339,603; May 11; v. 274; p. 254.
Plunger. S. Ustrzycki and J. Bukola. No. 1,340,126; May 11; v. 274; p. 353.
Pneumatic drill. Z. Lambert. No. 1,339,565; May 11; v. 274; p. 246.
Popcorn, Machine for making. T. Morgan. No. 1,339,662; May 11; v. 274; p. 265.
Poison-distributer. J. Een. No. 1,339,556; May 11; v. 274; p. 244.
Portable stand. W. Blasco. No. 1,340,108; May 11; v. 274; p. 349.
Power-press. H. M. Lucas. No. 1,339,773; May 11; v. 274; p. 286.
Power-press. H. M. Lucas. No. 1,339,774; May 11; v. 274; p. 286.
Power-table driving machines, Guard for. J. D. Karle. No. 1,339,766; May 11; v. 274; p. 285.
Press: *See*—
Offsetting-press. Power-press.
Priming-cup. W. W. Harris. No. 1,339,883; May 11; v. 274; p. 307.
Priming-cup. W. W. Harris. No. 1,339,884; May 11; p. 274; p. 307.
Printers' forms, Locking means for. L. J. Reichel and W. L. Warner. No. 1,339,607; May 11; v. 274; p. 254.
Printing-block, Juvenile. C. Montelth. No. 1,340,072; May 11; v. 274; p. 342.
Printing-machine. D. J. Scott and C. E. Drange. No. 1,339,526; May 11; v. 274; p. 239.
Printing-plate, Intaglio. J. A. Corey. No. 1,339,741; May 11; v. 274; p. 280.
Propeller-blades, Protector for. S. Heath. No. 1,339,886; May 11; v. 274; p. 307.
Puller: *See*—
Stump-puller.
Pulley-blocks. N. D. Levin. No. 1,339,931; May 11; v. 274; p. 316.
Pulling and lifting device. S. Santino. No. 1,339,581; May 11; v. 274; p. 249.
Pulverized. J. T. Fowler. No. 1,339,950; May 11; v. 274; p. 319.
Pulverizer, Rotary. E. Cortese, M. Crespi, and A. Squassi. No. 1,339,499; May 11; v. 274; p. 234.
Pump. C. A. Criqui and E. T. Larkin. No. 1,339,500; May 11; v. 274; p. 234.
Pump. G. P. Johnson. No. 1,339,563; May 11; v. 274; p. 246.
Pump. R. T. Windle. No. 1,340,130; May 11; v. 274; p. 354.
Pump, Centrifugal. R. N. Trane. No. 1,340,091; May 11; v. 274; p. 345.
Pump, Condensing and vacuum. S. Lippert. No. 1,339,402; May 11; v. 274; p. 215.
Pump, Dispensing-. C. Hughel. No. 1,339,626; May 11; v. 274; p. 258.
Pump, Rotary. J. H. Smith. No. 1,339,723; May 11; v. 274; p. 277.
Purifier. J. W. Roche. No. 1,339,980; May 11; v. 274; p. 325.
Pyrometer. W. Glaeser. No. 1,339,952; May 11; v. 274; p. 320.
Radiator. S. W. Dyckman. No. 1,339,813; May 11; v. 274; p. 293.
Radiator, Automobile-. J. W. Franz. No. 1,339,752; May 11; v. 274; p. 282.
Radiator-cores, Machine for assembling. T. N. Coffelder. No. 1,339,434; May 11; v. 274; p. 221.
Radiator, Electric. C. V. Stevenson. No. 1,339,935; May 11; v. 274; p. 317.
Radiator-filling tubes, Combined cap and funnel for. G. C. Hurt. No. 1,339,562; May 11; v. 274; p. 245.
Radiator, Gas-. L. Cinq-Mars. No. 1,339,944; May 11; v. 274; p. 318.
Radiosignaling apparatus. F. Lowenstein. No. 1,339,772; May 11; v. 274; p. 286.
Rail-anchor. H. G. Gillmor. No. 1,340,135; May 11; v. 274; p. 355.
Rail-fastener. W. Sanowski. No. 1,339,718; May 11; v. 274; p. 276.
Railway rolling-stock, Buffer for. D. C. Davis. No. 1,339,743; May 11; v. 274; p. 280.
Rake. A. I. Conrad. No. 1,339,436; May 11; v. 274; p. 221.
Range. H. D. Schall. No. 1,339,478; May 11; v. 274; p. 230.
Range finding and sighting instrument. P. Gerli and O. A. Ross. No. 1,339,450; May 11; v. 274; p. 224.
Razor-blade holder. C. W. Jones. No. 1,339,397; May 11; v. 274; p. 214.
Receptacle. J. E. La Cerf. No. 1,339,899; May 11; v. 274; p. 310.
Receptacle-support. A. C. Axberg. No. 1,339,491; May 11; v. 274; p. 232.
Reel: *See*—
Hose-reel.
Refrigerating apparatus. R. B. Henderson and R. E. James. No. 1,339,622; May 11; v. 274; p. 257.
Refrigeration, Apparatus for. J. McCoy. No. 1,339,659; May 11; v. 274; p. 264.
Refrigerator-closure. J. W. Seifert. No. 1,340,084; May 11; v. 274; p. 344.
Regenerating system. F. W. Meyer. No. 1,339,903; May 11; v. 274; p. 310.
Register: *See*—
Article-register.
Regulating system. F. H. Winter. No. 1,339,996; May 11; v. 274; p. 328.
Regulator: *See*—
Damper-regulator.
Electrical regulator. Furnace-regulator.
Resilient wheel. V. A. Walkup. No. 1,339,800; May 11; v. 274; p. 291.
Rim, Demountable. J. W. Higgins. No. 1,339,651; May 11; v. 274; p. 263.
Roasting-pan. S. A. Holloway. No. 1,339,625; May 11; v. 274; p. 258.
Roll-holder, cutter, and twine-holder, Combined. J. H. Reader. No. 1,340,132; May 11; v. 274; p. 354.
Rolling-mills, Apparatus for manipulating ingots, bars, and the like in. W. Williams. No. 1,340,129; May 11; v. 274; p. 354.

Rotary device, Manually-operated. F. W. Drews. No. 1,340,026 May 11; v. 274; p. 333.
Rubber and making same, Apparatus for vulcanizing. W. B. Burke. No. 1,339,736; May 11; v. 274; p. 279.
Rubber articles, Removing flus from. R. Rothwell and W. H. Cuttrell. No. 1,339,789; May 11; v. 274; p. 289.
Rug-drying device. R. J. Osborne. No. 1,339,784; May 11; v. 274; p. 288.
Rule, Linear counter-. P. G. Chamberlain. No. 1,339,644; May 11; x. 274; p. 262.
Salvaging apparatus. C. Sanger. No. 1,339,717; May 11; v. 274; p. 276.
Sash-lock. H. Reinl. No. 1,339,670; May 11; v. 274; p. 267.
Sash operator, Window-. V. Cima. No. 1,339,879; May 11; v. 274; p. 306.
Saw-tooth. A. Westgard. No. 1,340,128; May 11; v. 274; p. 353.
Sawing machine, Tire-core-. J. C. Fiddyment. No. 1,339,815; May 11; v. 274; p. 294.
Sawmill attachment. W. H. Gilmour. No. 1,340,042; May 11; v. 274; p. 336.
Scaffold-bracket. H. O. Sederburg. No. 1,339,482; May 11; v. 274; p. 231.
Scale. J. Hopkinson. No. 1,339,759; May 11; v. 274; p. 283.
Scale, Weighing-. F. P. Dunn. No. 1,339,440; May 11; v. 274; p. 222.
Scissors. C. R. Storz. No. 1,339,797; May 11; v. 274; p. 290.
Screen: *See*—
Fly-screen. Well-screen.
Weather-screen. Window-screen.
Seat: *See*—
Cushion-seat. Nursery-seat.
Separator: *See*—
Dust-separator.
Separators, Adjustable sieve for. D. E. Hoffman. No. 1,339,560; May 11; v. 274; p. 245.
Service apparatus, Prepay time-controlled-. W. H. Thompson. No. 1,339,634; May 11; v. 274; p. 260.
Settling-basin-separating device. C. Allen. No. 1,339,682; May 11; v. 274; p. 269.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,339,732; May 11; v. 274; p. 278.
Sewing machine, Inseam shoe-. J. E. Thayer. No. 1,339,633; May 11; v. 274; p. 259.
Sewing machine, Shoe-. A. Eppler. No. 1,339,645; May 11; v. 274; p. 262.
Sewing-machines, Hemming and trimming attachments for. H. Corrall and J. Heggie. No. 1,339,742; May 11; v. 274; p. 280.
Sewing-machines, Motor control for. W. Forsberg. No. 1,339,817; May 11; v. 274; p. 294.
Sewing-machines, Thread-controlling mechanism for. E. B. Allen. No. 1,339,733; May 11; v. 274; p. 278.
Shaft-alining device. L. B. Cobb. No. 1,339,919; May 11; v. 274; p. 313.
Shaft-oscillator. J. R. Kenney. No. 1,339,897; May 11; v. 274; p. 309.
Sheet, Guide-line. E. M. Africa. No. 1,340,100; May 11; v. 274; p. 347.
Shingle-holding device. J. Jansma. No. 1,339,458; May 11; v. 274; p. 226.
Ship-fender. Y. Nakabayashi. No. 1,339,663; May 11; v. 274; p. 265.
Ship-steering apparatus. P. A. Johnson. No. 1,339,850; May 11; v. 274; p. 300.
Ship's hull construction. F. W. Gore. No. 1,339,755; May 11; v. 274; p. 283.
Shipping apparatus, Vehicle-. R. Z. Hopkins. No. 1,339,890; May 11; v. 274; p. 308.
Shock-absorber. R. C. Morey. No. 1,339,780; May 11; v. 274; p. 287.
Shock-absorber. G. A. Starkweather. No. 1,339,484; May 11; v. 274; p. 231.
Shoe-holder. J. M. McCray. No. 1,339,520; May 11; v. 274; p. 238.
Shoe-machine. O. R. Angell. No. 1,339,591; May 11; v. 274; p. 251.
Shuttle-tip fastener. M. Mitchell. No. 1,339,572; May 11; v. 274; p. 248.
Sign, Electric. M. E. Launbranch. No. 1,339,566; May 11; v. 274; p. 246.
Signal: *See*—
Vehicle-signal.
Signal. D. E. Blair and D. K. Macleod. No. 1,339,685; May 11; v. 274; p. 270.
Signal actuator, Traffic-. J. M. Middlebrooks. No. 1,339,660; May 11; v. 274; p. 265.
Silk waste, Spinning artificial-. W. R. D. Hall. No. 1,340,044; May 11; v. 274; p. 337.
Silo-brace. B. Gibson and A. Fuller. No. 1,339,701; May 11; v. 274; p. 273.
Single-roll crusher. W. K. Liggett. No. 1,339,932; May 11; v. 274; p. 316.
Single-roll crusher. W. K. Liggett. No. 1,339,933; May 11; v. 274; p. 316.
Sleigh-carrier. W. L. Paddon. No. 1,339,861; May 11; v. 274; p. 303.
Slicing-machine attachment. J. H. McLaughlin. No. 1,339,901; May 1; v. 274; p. 310.
Slicing-machine. C. F. M. van Berkel. No. 1,339,590; May 11; v. 274; p. 251.
Slime-pulp thickener. C. Allen. No. 1,339,684; May 11; v. 274; p. 269.
Snow, Apparatus for melting. S. Savonius. No. 1,339,719; May 11; v. 274; p. 276.
Sound-box. F. Cheney. No. 1,339,809; May 11; v. 274; p. 293.
Spark-arrester. S. S. Caskey. No. 1,339,495; May 11; v. 274; p. 233.
Spark-arresting device. F. L. Connable. No. 1,339,498; May 11; v. 274; p. 233.
Spark-coil-testing apparatus. E. C. Ballman. No. 1,339,804; May 11; v. 274; p. 292.
Spark-plug. J. Brooks. No. 1,340,116; May 11; v. 274; p. 351.
Spark-plug. A. E. C. and E. W. M., Lockewitz. No. 1,339,463; May 11; v. 274; p. 227.
Spark-plug. G. L. Truesdell. No. 1,339,429; May 4; v. 274; p. 220.
Spray-nozzle. T. W. Murphy and W. Czarnecki. No. 1,340,136; May 11; v. 274; p. 355.
Spraying apparatus. H. Barber. No. 1,339,382; May 11; v. 274; p. 211.
Speed control equipment, Automatic. W. V. Turner. No. 1,339,677; May 11; v. 274; p. 268.
Spinning-frames, Doffing mechanism for. S. Ambler. No. 1,339,803; May 11; v. 274; p. 291.
Spool, Insulating collector or distributer. L. Steinberger. No. 1,339,988; May 11; v. 274; p. 326.
Spring fabric. H. J. Willems. No. 1,339,802; May 11; v. 274; p. 291.
Spring-gripping device. H. Bishop. No. 1,339,843; May 11; v. 274; p. 299.
Spring-operated mechanism. C. E. Anderson. No. 1,340,000; May 11; v. 274; p. 329.
Spring saddle and shock-absorber. C. M. Mohler. No. 1,339,779; May 11; v. 274; p. 287.
Spring-trap. C. Schroeder. No. 1,339,481; May 11; v. 274; p. 230.
Square, Foldable. S. O. Thorell. No. 1,340,125; May 11; v. 274; p. 353.
Staging. F. C. Milton. No. 1,339,661; May 11; v. 274; p. 265.
Stamp, Dating-. F. M. Shafer. No. 1,340,122; May 11; v. 274; p. 352.
Stand: *See*—
Portable stand.
Stand for rolled material, Delivery-. S. M. Langston. No. 1,339,460; May 11; v. 274 p. 226.
Steam-engine. L. Skinner. No. 1,339,630; May 11; v. 274; p. 259.
Steering apparatus, Gear reduction and lock for. N. Hall. No. 1,339,454; May 11; v. 274; p. 225.
Stirrup, Pump-. C. D. Brandt. No. 1,339,943; May 11; v. 274; p. 318.
Stitches, Feeding device for producing spiral. H. Adler. No. 1,340,099; May 11; v. 274; p. 347.
Stoker, Mechanical. E. S. Wallen. No. 1,339,531; May 11; v. 274; p. 240.
Stopper: *See*—
Pipe-stopper.
Stopping device. A. Pogany. No. 1,339,474; May 11; v. 274; p. 229.
Stove, Gas-. D. N. Gross. No. 1,339,618; May 11; v. 274; p. 257.
Stringed instruments, Tuning-peg for. B. Poehland. No. 1,339,418. May 11; v. 274; p. 218.
Structure, Cylindrical. T. B. Pearson. No. 1,339,862; May 11; v. 274; p. 303.
Stump-puller. C. D. Pace. No. 1,339,666; May 11; v. 274; p. 266.
Sulfates, Making ethyl. H. R. Curme. No. 1,339,947; May 11; v. 274; p. 319.
Superheater. J. S. Nichols. No. 1,340,074; May 11; v. 274; p. 342.
Sweeping machine, Street-. A. Schroeder. No. 1,340,133; May 11; v. 274; p. 354.
Switch: *See*—
Electric switch. Electromechanical switch.
Electric-circuit switch. Locking-switch.
Electrical switch. Time-controlled switch.
Table: *See*—
Folding table. Folding universal table.
Tables, Serving apparatus for dining-. L. Rod. No. 1,339,525; May 11; v. 274; p. 238.
Tables, Transmitter-guard for power-. P. Hleb. No. 1,339,758; May 11; v. 274; p. 283.
Tank-filler cap, Gasolene-. S. A. Stranahan. No. 1,339,485; May 11; v. 274; p. 231.
Tank hand-hole and cover. A. F. O'Connor. No. 1,339,905; May 11; v. 274; p. 311.
Teeter-board, Revolving. W. Williams; No. 1,339,536; May 11; v. 274; p. 241.
Teeth, Artificial. R. E. Hall. No. 1,339,821; May 11; v. 274; p. 295.
Telegraph system. R. A. Heising. No. 1,339,824; May 11; v. 274; p. 295.
Telegraphy. T. B. Dixon. No. 1,339,549; May 11; v. 274; p. 243.
Telegraphy. T. B. Dixon. No. 1,339,550; May 11; v. 274; p. 243.
Telegraphy. T. B. Dixon. No. 1,339,551; May 11; v. 274; p. 244.

Telephone attachment. C. E. Krueger. No. 1,339,518; May 11; v. 274; p. 237.
Telephone-exchange system. L. Polinkowsky. No. 1,339,575; May 11; v. 274; p. 248.
Telephone set. H. C. Egerton. No. 1,339,814; May 11; v. 274; p. 294.
Telephone-transformer. V. L. Smith. No. 1,339,793; May 11; v. 274; p. 290.
Telescope. W. R. Ham. No. 1,339,386; May 11; v. 274; p. 212.
Tentering-clip. F. Hinnekens. No. 1,339,509; May 11; v. 274; p. 236.
Theater-curtain-operating mechanism. W. Lemle. No. 1,340,066; May 11; v. 274; p. 341.
Thread gage. C. L. Pettibone. No. 1,339,573; May 11; v. 274; p. 248.
Ticket-dispensing device. P. C. Harbaugh. No. 1,339,823; May 11; v. 274; p. 295.
Ticket machine, Pin-. H. Heine. No. 1,339,887; May 11; v. 274; p. 307.
Time-controlled switch. L. L. Fuller. No. 1,340,039; May 11; v. 274; p. 336.
Timer. W. W. Schubert. No. 1,340,121; May 11; v. 274; p. 352.
Tire-beads, Centering-ring for. W. F. Goff. No. 1,339,451; May 11; v. 274; p. 224.
Tire-casing core. F. L. Bailey and J. H. La Grant. No. 1,339,875; May 11; v. 274; p. 305.
Tire-casings, Resilient core for. F. L. Bailey and J. H. La Grant. No. 1,339,876; May 11; v. 274; p. 305.
Tire-filler with a flexible cable in the center, Rubber. M. W. Needham. No. 1,339,472; May 11; v. 274; p. 228.
Tire-grip, Chain. R. E. Pye. No. 1,339,978; May 11; v. 274; p. 324.
Tire-grip, Chain. J. R. Reyburn. No. 1,339,979; May 11; v. 274; p. 325.
Tire having a reserve of expansibility. L. A. Subers. No. 1,339,868; May 11; v. 274; p. 304.
Tire-molds, Machine for finishing. J. C. Fiddyment. No. 1,339,816; May 11; v. 274; p. 294.
Tire-patch material, Producing. C. O. Duffy. No. 1,339,696; May 11; v. 274; p. 272.
Tire, Pneumatic. C. C. Gates. No. 1,339,951; May 11; v. 274; p. 320.
Tire, Pneumatic. B. A. Karr. No. 1,339,516; May 11; v. 274; p. 237.
Tire, Pneumatic. I. Normandy. No. 1,339,782; May 11; v. 274; p. 288.
Tires, Device for use in changing. J. E. Erickson. No. 1,339,504; May 11; v. 274; p. 235.
Tobacco, Envelop for burning. F. J. Roffels. No. 1,339,577; May 11; v. 274; p. 248.
Toilet article. H. Schneider. No. 1,339,673; May 11; v. 274; p. 267.
Tomato and fruit sorter and distributer. T. J. Peters. No. 1,340,079; May 11; v. 274; p. 343.
Tongue-depressor. J. M. Park. No. 1,339,711; May 11; v. 274; p. 275.
Tool, Combination-. J. and S. Faix. No. 1,339,698; May 11; v. 274; p. 272.
Tool, Grappling-. L. Scarbrough. No. 1,340,083; May 11; v. 274; p. 344.
Tool-holding implement. J. W. Stoke. No. 1,339,725; May 11; v. 274; p. 277.
Tool, Wire-wrapping. O. Fachman. No. 1,340,029; May 11; v. 274; p. 334.
Tools, Conveying liquid to rock-drilling. W. E. Nettle, P. Selby, J. Blyth, and J. H. Holman. No. 1,339,858; May 11; v. 274; p. 302.
Toothbrush. J. S. Westhafer. No. 1,340,093; May 11; v. 274; p. 346.
Toothbrush, Fountain-. C. P. Breining. No. 1,340,115; May 11; v. 274; p. 351.
Toy. E. P. Rodin. No. 1,340,109; May 11; v. 274; p. 349.
Toy car, Manually-propelled. J. C. Brown. No. 1,339,433; May 11; v. 274; p. 221.
Toy house. L. S. Hansen. No. 1,340,047; May 11; v. 274; p. 337.
Toy vehicles, Spring-movement for. F. L. Lindstrom. No. 1,339,934; May 11; v. 274; p. 316.
Tractor. W. Boulais. No. 1,340,112; May 11; v. 274; p. 350.
Train-control apparatus, Automatic. A. J. Brookins. No. 1,339,918; May 11; v. 274; p. 313.
Train-stop, Automatic. F. J. McAvoy. No. 1,340,068; May 11; v. 274; p. 341.
Trap; *See*—
Spring-trap.
Trimming-machine. J. A. Butler. No. 1,339,807; May 11; v. 274; p. 292.
Truck. J. A. Johnson. No. 1,339,514; May 11; v. 274; p. 237.
Trunk-collar and track, Combined. G. H. Wheary. No. 1,339,534; May 11; v. 274; p. 240.
Trunk-wardrobe-section protector. G. H. Wheary. No. 1,339,533; May 11; v. 274; p. 240.
Truss. I. N. Cress. No. 1,339,946; May 11; v. 274; p. 319.
Tube-cap. A. Landgrebe. No. 1,340,061; May 11; v. 274; p. 340.
Tube systems, Automatic locking device for pneumatic-. G. F. Botscheider. No. 1,339,594; May 11; v. 274; p. 252.
Tubes, Producing longitudinal ribs on the exteriors of. T. E., Jr., and J. B. Murray. No. 1,339,970; May 11; v. 274; p. 323.
Turbine, Geared. H. T. Herr. No. 1,339,508; May 11; v. 274; p. 235.
Turbine motor, Hydrocarbon or gasolene. W. G. Simpson. No. 1,339,483; May 11; v. 274; p. 231.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,339,704; May 11; v. 274; p. 273.
Typewriting and computing machine, Combined. J. Waldheim. No. 1,339,993; May 11; v. 274; p. 327.
Typewriting-machine. L. S. Burridge. No. 1,339,806; May 11; v. 274; p. 292.
Typesetting-machines, Motor-drive for. P. Paris. No. 1,339,667; May 11; v. 274; p. 266.
Universal die. E. H. Branson. No. 1,340,006; May 11; v. 274; p. 330.
Vacuum and compressed air brake, Combined. W. V. Turner. No. 1,339,678; May 11; v. 274; p. 268.
Valve. J. L. Folster. No. 1,339,750; May 11; v. 274; p. 282.
Valve. G. W. Thompson. No. 1,339,798; May 11; v. 274; p. 290.
Valve, Air and gas. A. and W. Otto. No. 1,339,665; May 11; v. 274; p. 266.
Valve, Brake-pipe. A. G. Shaver. No. 1,339,720; May 11; v. 274; p. 276.
Valve-lock. L. Peters. No. 1,339,412; May 11; v. 274; p. 217.
Valve-regulating means. A. C. Dobrick. No. 1,339,811; May 11; v. 274; p. 293.
Valve-tool. A. C. Rosenbrook. No. 1,339,422; May 11; v. 274; p. 218.
Valve, Water-gage safety-. F. F. Beese. No. 1,339,383; May 11; v. 274; p. 211.
Valves, Carbureting-screen for intake-. F. W. Lapham. No. 1,340,062; May 11; v. 274; p. 340.
Vault, Burial. N. W. Davis. No. 1,339,920; May 11; v. 274; p. 314.
Vehicle-bodies, Supporting connection for. W. G. Mayer. No. 1,339,521; May 11; v. 274; p. 238.
Vehicle-curtain light. D. M. Winans. No. 1,339,838; May 11; v. 274; p. 298.
Vehicle drive, Motor-. J. W. Prosser. No. 1,339,475; May 11; v. 274; p. 229.
Vehicle-signal. W. R. Tonkin. No. 1,339,589; May 11; v. 274; p. 251.
Vehicle, Two-wheeled motor-. A. Duresen. No. 1,339,554; May 11; v. 274; p. 244.
Vehicles, Adjustable lamp-support for motor-. R. A. Frisbie. No. 1,339,449; May 11; v. 274; p. 224.
Vehicles, Apparatus for utilizing the trepidations of. M. A. Canale and R. Frias. No. 1,340,013; May 11; v. 274; p. 331.
Vehicles, Auxiliary tractor for motor-. G. H. Davis and W. G. Griffin. No. 1,340,024; May 11; v. 274; p. 333.
Vehicles, Spring suspension for motor-. E. A. Nelson. (Reissue.) No. 14,856; May 11; v. 274; p. 355.
Ventilating and drainage system. W. E. Hughes and J. B. King. No. 1,339,761; May 11; v. 274; p. 284.
Ventilator. A. F. O'Connor. No. 1,339,973; May 11; v. 274; p. 324.
Vine-lifter. G. W. Ayres. No. 1,339,840; May 11; v. 274; p. 299.
Wall-covering. G. F. Bishopric. No. 1,339,915; May 11; v. 274; p. 313.
Warp-replenishing mechanism. E. F. Hathaway and C. Lea. No. 1,339,507; May 11; v. 274; p. 235.
Washer; *See*—
Egg-washer. Oil-washer.
Washing-machine. M. D. Gibson. No. 1,339,818; May 11; v. 274; p. 294.
Washing machine, Combination. H. H. Toll and F. C. Duff. No. 1,339,688; May 11; v. 274; p. 251.
Washing machine, Dish-. S. H. Cochran. No. 1,339,810; May 11; v. 274; p. 293.
Washing-machines, Driving mechanism for power. H. H. Toll. No. 1,339,587; May 11; v. 274; p. 250.
Watch. P. Benjamin and S. Burger. No. 1,340,003; May 11; v. 274; p. 329.
Watch-barrel. H. A. Borresen. No. 1,339,941; May 11; v. 274; p. 318.
Water-waste preventer. L. Davies. No. 1,339,690; May 11; v. 274; p. 271.
Waterproofing composition and making and using same. S. P. Sollaway. No. 1,339,724; May 11; v. 274; p. 277.
Weather-screen, Visual. S. A. de Normanville and L. H. Kent. No. 1,340,025; May 11; v. 274; p. 33.
Weather-strip, Door-bottom. W. G. Maxey and W. A. Rideout. No. 1,339,775; May 11; v. 274; p. 286.
Weighing-machines, Electrically-operated releasing device for. C. H. Allen and J. L. Morris. No. 1,339,539; May 11; v. 274; p. 241.
Welded joint, Producing a rib on an electrically-. T. E., Jr., and J. B. Murray. No. 1,339,966; May 11; v. 274; p. 322.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,968; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,969; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,971; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,972; May 11; v. 274; p. 323.

Welding metal bodies, Electrically. T. E., Jr., and J. B. Murray. No. 1,339,967; May 11; v. 274; p. 322.
Welding, Multiple-arc. O. A. Kenyon. No. 1,340,056; May 11; v. 274; p. 339.
Well-screen. M. E. Layne. No. 1,339,898; May 11; v. 274; p. 309.
Wells, Apparatus for and process of lining. J. A. Hardel. No. 1,339,955; May 11; v. 274; p. 320.
Wells, Apparatus for raising liquids from deep. J. A. Hebert. No. 1,339,621; May 11; v. 274; p. 257.
Wheel; *See*—
Resilient wheel.
Wheel. V. L. Downing. No. 1,339,439; May 11; v. 274; p. 222.
Wheel. W. F. Pfau. No. 1,339,574; May 11; v. 274; p. 248.
Wheel construction, Band-. H. J. Lockhart. No. 1,339,852; May 11; v. 274; p. 301.
Wheel-rim, Sectional. J. W. White. No. 1,340,094; May 11; v. 274; p. 346.
Wheel structure, Organized-. J. E. Strietelmeier. No. 1,339,676; May 11; v. 274; p. 268.
Wheels, Antiskid attachment for vehicle-. A. McCullough. No. 1,339,854; May 11; v. 274; p. 301.
Wheels, Antiskid device for automobile-. C. E. Mahan. No. 1,339,963; May 11; v. 274; p. 322.
Window-screen, Metallic. E. Luft. No. 1,339,464; May 11; v. 274; p. 227.
Windshield, Auxiliary. E. C. Hillman. No. 1,339,889; May 11; v. 274; p. 308.
Wire fabric. J. S. Barnes. No. 1,339,541; May 11; v. 274; p. 242.
Wire-line clamp. P. M. Rea. No. 1,339,419; May 11; v. 274; p. 218.
Wire-line clamps, Liner for. P. M. Rea. No. 1,339,420; May 11; v. 274; p. 218.
Wire-stretcher. W. C. Mitchell. No. 1,339,407; May 11; v. 274; p. 216.
Wire-winding device. J. C. Layman. No. 1,340,064; May 11; v. 274; p. 340.
Wood, Fireproofing. H. F. Weiss. No. 1,339,488; May 11; v. 274; p. 232.
Wood, Recovery of organic products from. H. F. Weiss. No. 1,339,489; May 11; v. 274; p. 232.
Wood-refuse burner. J. P. Walsh. No. 1,339,729; May 11; v. 274; p. 278.
Wrench; *See*—
Pipe-wrench.
Yoke, Draw-bar. C. E. Bauer. No. 1,339,940; May 11; v. 274; p. 318.
Yoke or shoulder-weight carrier. R. P. Orr. No. 1,340,076; May 11; v. 274; p. 342.
Zinc oxid, Treating. F. G. Breyer and E. H. Bunce. No. 1,339,544; May 11; v. 274; p. 242.
Zinc oxid, Treating. F. G. Breyer and E. H. Bunce. No. 1,339,545; May 11; v. 274; p. 242.

ALPHABETICAL LIST OF DESIGNS.

Article of manufacture. H. T. Abolin. No. 55,108; May 11; v. 274; p. 356.
Beverage-dispensing device. C. M. Earl. No. 55,121; May 11; v. 274; p. 358.
Bottle-cap. C. Hammer. No. 55,125; May 11; v. 274; p. 359.
Clock-case. S. A. Dulczewski. No. 55,120; May 11; v. 274; p. 358.
Collar, Fold-. H. F. Hurd. No. 55,128; May 11; v. 274; p. 359.
Cuspidor. W. F. Koken. No. 55,130; May 11; v. 274; p. 360.
Heel. H. Hess. No. 55,127; May 11; v. 274; p. 359.
Knife and bottle-opener, Combined pocket-. J. P. Haddix. No. 55,123; May 11; v. 274; p. 358.
Label. E. R. Allard. No. 55,113; May 11; v. 274; p. 357.
Paper, Embossed wall-. A. Ainsworth. Nos. 55,109–12; May 11; v. 274; p. 356.
Paper, Embossed wall-. W. F. Roehlin. No. 55,139; May 11; v. 274; p. 361.
Post. H. A. Landwehr. No. 55,134; May 11; v. 274; p. 360.
Rubber heel-pad for boots and shoes. J. E. Barney. No. 55,116; May 11; v. 274; p. 357.
Rubber sole-pad for boots and shoes. J. E. Barney. Nos. 55,114–15; May 11; v. 274; p. 357.
Shoe-plate. L. Hasel. No. 55,126; May 11; v. 274; p. 359.
Spark-plug shell. H. F. Kumler and I. R. Rystedt. No. 55,133; May 11; v. 274; p. 360.
Spoon, fork, or similar article. H. Knott. No. 55,131; May 11; v. 274; p. 360.
Sprinkler-head or similar article. J. R. Hamilton. No. 55,124; May 11; v. 274; p. 359.
Stamp, Hand-. M. S. Miller. No. 55,137; May 11; v. 274; p. 361.
Statuette. B. E. Rieg and E. B. Williams. No. 55,138; May 11; v. 274; p. 361.
Tire. E. J. Kraft. No. 55,132; May 11; v. 274; p. 360.
Tire. W. Seabridge. No. 55,140; May 11; v. 274; p. 362.
Tire. E. A. Tinsman. No. 55,142; May 11; v. 274; p. 362.
Tire, Automobile-. J. B. Gabeline. No. 55,122; May 11; v. 274; p. 358.
Tire, Non-skid. W. E. Duersten. Nos. 55,118–19; May 11; v. 274; p. 357–8.
Tire, Pneumatic. E. O. Sterns. No. 55,141; May 11; v. 274; p. 362.
Toothbrush-casing. E. H. and E. K. Wiersching. No. 55,143; May 11; v. 274; p. 362.
Towel-urn. W. F. Koken. No. 55,129; May 11; v. 274; p. 359.
Trace link, Chain-. E. P. Belz. No. 55,117; May 11; v. 274; p. 357.
Valve, Balloon-. J. S. Maxwell. No. 55,135; May 11; v. 274; p. 361.
Watch case and bow. J. McGreevy. No. 55,136; May 11; v. 274; p. 361.

ALPHABETICAL LIST OF TRADE-MARKS.

Anesthetics. H. A. Metz Laboratories. No. 131,346; May 11; v. 274; p. 401.
Acid, Sulfuric. Collinsville Zinc Corporation. No. 131,292; May 11; v. 274; p. 399.
Axles, shaft, gears, Locomotive and machinery. Pollak Steel Company. No. 131,364; May 11; v. 274; p. 401.
Bait-hooks and ice-tongs. E. R. Davis. No. 131,296; May 11; v. 274; p. 399.
Beverage, Cereal malt. Jetter Beverage Company. No. 131,330; May 11; v. 274; p. 400.
Beverage, Malt. Hartmann & Fehrenbach Products Co. No. 131,319; v. 274; p. 400.
Beverage, Malt. Independent Brewing Company of Pittsburgh. Nos. 131,326–7; May 11; v. 274; p. 400.
Beverage, Non-alcoholic, &c., sold as a soft drink. Monarch Mfg. Co. No. 131,348; May 11; v. 274; p. 401.
Beverage, Non-intoxicating. Birk Brothers Brewing Company. No. 131,285; May 11; v. 274; p. 399.
Boiler compounds. Corrosanti Chemical Co. No. 131,294; May 11; v. 274; p. 399.
Bread-slicing machines. Liberty Bread Slicer Company. No. 131,338; May 11; v. 274; p. 401.
Candles. E. J. Brach and Sons. No. 131,287; May 11; v. 274; p. 399.
Canned condensed milk. Hencken & Burner. No. 131,321; May 11; v. 274; p. 400.
Canned fruits. Manteca Packing Company. No. 131,344; May 11; v. 274; p. 401.
Canned fruits. Western Canning Company. No. 131,387; May 11; v. 274; p. 402.
Canned fruits and vegetables. Croker Packing Co. No. 131,295; May 11; v. 274; p. 399.
Canned vegetables. General Coffee & Tea Co. No. 131,309; May 11; v. 274; p. 400.
Canned vegetables. Grimes-Perry Canning Company. No. 131,316; May 11; v. 274; p. 400.
Carbon remover. Fearless Products Manufacturing Corporation. No. 131,306; May 11; v. 274; p. 400.
Carpet-sweepers. Scott-Fetzer Company. No. 131,367; May 11; v. 274; p. 401.
Cherry phosphate, birch and root beers, &c. Giering Bottling Company. No. 131,310; May 11; v. 274; p. 400.
Chocolates. D. Auerbach & Sons. No. 131,279; May 11; v. 274; p. 399.
Chocolate and candies. E. Greenfield's Sons. No. 131,314; May 11; v. 274; p. 400.
Coal-treating substance. Coal Conservation Company. No. 131,291; May 11; v. 274; p. 399.
Coffee. Gordon, Sewall & Co. No. 131,312; May 11; v. 274; p. 400.
Coffee, tea, and flavoring extracts for foods. Page-Connell Coffee Company. No. 131,360; May 11; v. 274; p. 401.
Colors, Food. National Aniline & Chemical Company. Nos. 131,349–56; May 11; v. 274; p. 401.
Cooking, Domestic. W. J. Jaeger. No. 131,329; May 11; v. 274; p. 400.
Corn medicine and foot-powder. Bauer Chemical Co., Inc. No. 131,280; May 11; v. 274; p. 399.
Cosmetics. Usit Mfg. Co. of America. No. 131,382; May 11; v. 274; p. 402.
Cultivators, planters, &c. Harriman Manufacturing Company. No. 131,318; May 11; v. 274; p. 400.

Dies tocks, hand pipe-cutters, &c. Borden Company. No. 131,286; May 11; v. 274; p. 399.
Magneto-files and tools for cleaning spark-plugs. Henry Disston & Sons. No. 131,298; May 11; v. 274; p. 399.
Drilling-machines. Fluid-pressure-operated. Ingersoll-Rand Company. No. 131,328; May 11; v. 274; p. 400.
Drop-forged parts. The Duff Manufacturing Company. No. 131,302; May 11; v. 274; p. 399.
Dyes. Lamie Chemical Company. No. 131,335; May 11; v. 274; p. 400.
Drying machinery for the manufacture of clay and ceramic products. Philadelphia Drying Machinery Company. No. 131,361; May 11; v. 274; p. 401.
Eggs. The Fairmont Creamery Company. No. 131,305; May 11; v. 274; p. 400.
Embalming preparations. M. J. Hyland. No. 131,325; May 11; v. 274; p. 400.
Engine reverse-gear, Steam-. American Locomotive Company. No. 131,278; May 11; v. 274; p. 399.
Expectorant and cough-sedative. Elf Lilly & Company. No. 131,304; May 11; v. 274; p. 399.
Fenceposts, Metallic. Chicago Steel Post Company. No. 131,290; May 11; v. 274; p. 399.
Fire-extinguishing powder compound. Select Products Sales Corporation. No. 131,368; May 11; v. 274; p. 402.
Foods and ingredients of foods. Wellman-Peck & Co. No. 131,386; May 11; v. 274; p. 402.
Fruit, Fresh. E. E. Connery. No. 131,293; May 11; v. 274; p. 399.
Fruits, Fresh citrus. M. Latimer. No. 131,345; May 11; v. 274; p. 401.
Gum, Chewing-. L. P. Larson Jr. Company. No. 131,337; May 11; v. 274; p. 401.
Hair tonics and straighteners. E. Adams. No. 131,277; May 11; v. 274; p. 399.
Hammers, knives, shingling-hatchets. Hibbard, Spencer, Bartlett & Co. No. 131,322; May 11; v. 274; p. 400.
Herb combination for use in the treatment of certain named diseases. E. Beall. No. 131,281; May 11; v. 274; p. 399.
Insecticide and germicide. Dupuis Chemical Co. No. 131,302; May 11; v. 274; p. 399.
Insecticides. Henry Heil Chemical Company. No. 131,320; May 11; v. 274; p. 400.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 131,307; May 11; v. 274; p. 400.
Jams, Fruit. Kelley-Clarke Co. No. 131,333; May 11; v. 274; p. 400.
Lathes and screw-machines, Turret-. Wood Turret Machine Co. No. 131,391; May 11; v. 274; p. 402.
Lenses, eyeglasses, &c., Ophthalmic. United Eye Glass Shops Corporation. Nos. 131,374–9; May 11; v. 274; p. 402.
Lenses, Photographic. Wollensak Optical Co. No. 131,389; May 11; v. 274; p. 402.
Liniment. L. W. Umbaugh. No. 131,373; May 11; v. 274; p. 402.
Liniment for the treatment of certain named affections. Leroy Jones. No. 131,331; May 11; v. 274; p. 400.
Locks, Nut-. United Nut Lock Company. No. 131,381; May 11; v. 274; p. 402.
Macaroni, vermicelli, and noodles. Skinner Mfg. Co. No. 131,370; May 11; v. 274; p. 402.
Machinery. J. I. Case Threshing Machine Company. No. 131,289; May 11; v. 274; p. 399.
Medicine for the diseased mucous membrane of the nose, throat, mouth, and ear. Otorino Manufacturing Company. No. 131,358; May 11; v. 274; p. 401.
Medicinal preparation. A. M. Flood. No. 131,308; May 11; v. 274; p. 400.
Medicinal preparation for rheumatism, &c. Kreo-Rub Chemical Co. No. 131,334; May 11; v. 274; p. 400.
Milking-machines. Beaver Machine & Tool Co. No. 131,282; May 11; v. 274; p. 399.
Noodles. Home-made Noodle Co. No. 131,324; May 11; v. 274; p. 400.
Nuts, Pecan-. National Pecan Growers Exchange. No. 131,357; May 11; v. 274; p. 401.
Oil-cups. Lunkenheimer Company. No. 131,340; May 11; v. 274; p. 401.
Oil-cups. Lunkenheimer Company. No. 131,342; May 11; v. 274; p. 401.
Ointment for piles, burns, &c. W. C. Lynch. No. 131,343; May 11; v. 274; p. 401.
Peanuts and topping for sundaes, &c., Salted. P. F. Beich Company. No. 131,283; May 11; v. 274; p. 399.
Perfumes, toilet waters, powders, &c. Denney & Denney. No. 131,297; May 11; v. 274; p. 399.
Picture Films, Moving-. Hallmark Pictures Corporation. No. 131,317; May 11; v. 274; p. 400.
Picture films, Moving-. Vitagraph Company of America. No. 131,383; May 11; v. 274; p. 402.
Planes, Carpenters'. Stanley Rule & Level Company. No. 131,371; May 11; v. 274; p. 402.
Power-hoists. S. W. Prussian. No. 131,365; May 11; v. 274; p. 401.
Powder, rouge, depilatories, nail-polish, &c. L. R. Long. No. 131,339; May 11; v. 274; p. 401.
Powder, Talcum. Grand Union Tea Co. No. 131,313; May 11; v. 274; p. 400.
Preparation for asthma, &c. J. M. Pierre. No. 131,362; May 11; v. 274; p. 401.
Preparation for coughs and colds. Piso Company. No. 131,363; May 11; v. 274; p. 401.
Preparation for skin diseases, Pharmaceutical. Sunbeam Chemical Company. No. 131,372; May 11; v. 274; p. 402.
Preparation for treatment of mucous-membrane disorders and diseases. Kolyptol Chemical Company. No. 131,332; May 11; v. 274; p. 400.
Pumps and pumping liquids. Michigan Machine Company. No. 131,347; May 11; v. 274; p. 401.
Pumps, Oil-. Lunkenheimer Company, The. No. 131,341; May 11; v. 274; p. 401.
Remedies for headache, insomnia, &c. United Laboratories. No. 131,380; May 11; v. 274; p. 402.
Remedy, Eye. Wheeler Optical Company. No. 131,388; May 11; v. 274; p. 402.
Salve for scalp maladies. Di-Testa Co. No. 131,299; May 11; v. 274; p. 399.
Salves and ointments. A. Shifrin. No. 131,369; May 11; v. 274; p. 402.
Seismographs, Auricular. Globe Ear-Phone Company. No. 131,311; May 11; v. 274; p. 400.
Machines, and parts thereof, Sewing-. L. Burlasky. No. 131,288; May 11; v. 274; p. 399.
Shovels, spades, scoops, and drainage-tools. Wood Shovel & Tool Co. No. 131,390; May 11; v. 274; p. 402.
Silks and satins in the piece. Belding Bros. & Co. No. 131,284; May 11; v. 274; p. 399.
Spark-plug tools. Wallace Manufacturing Co. No. 131,385; May 11; v. 274; p. 402.
Steel, J. R. Hogan. No. 131,323; May 11; v. 274; p. 400.
Toilet preparations. V. Vivaudou. No. 131,384; May 11; v. 274; p. 402.
Valves for tires, pneumatic cushions, life-preservers, &c., Air-. Griffin Mfg. Co. No. 131,315; May 11; v. 274; p. 400.
Waters, Mineral and aerated. W. A. Ross & Sons. No. 131,366; May 11; v. 274; p. 401.
Wire, rods, sheets, &c. Driver-Harris Company. No. 131,300; May 11; v. 274; p. 399.
Wrenches, Packer Auto Specialty Co. No. 131,359; May 11; v. 274; p. 401.
Wrenches and socket-wrenches sets. L. Druland. No. 131,301; May 11; v. 274; p. 399.
Wrenches, pipe-cutters, &c. Larco Wrench and Mfg. Corporation. No. 131,336; May 11; v. 274; p. 401.

ALPHABETICAL LIST OF LABELS.

"American Leader." (For Flour.) Bay City Milling Co. No. 21,853; May 11; v. 274; p. 403.
"Anatolikos Astir." (For Coffee.) The Commercial Tea & Coffee Co. No. 21,854; May 11; v. 274; p. 403.
"Chocolate Covered Nuts." (For Chocolate Candy—namely, Chocolate-Covered Nuts.) Milwaukee Paper Box Company. No. 21,864; May 11; v. 274; p. 403.
"Everywhere on Everything." (For Prints, Varnishes, Colors, and Insecticides.) The Glidden Company. No. 21,855; May 11; v. 274; p. 403.
"Export Beverage—Extra Fine." (For a Certain Beverage.) W. B. Giller. No. 21,868; May 11; v. 274; p. 403.
"Holco Brand Sardines." (For Sardines.) Holtrans Company. No. 21,856; May 11; v. 274; p. 403.
"Magnus Stomach Bitters." (For a Proprietary Medicine.) Magnus Drug Chemical Company. No. 21,857; May 11; v. 274; p. 403.
"Mason Mints." (For Mint Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. Nos. 21,862–3; May 11; v. 274; p. 403.
"Mason's Khufu." (For Chocolate Cocoanut Cream Bars.) Mason, Au & Magenheimer Confectionery Mfg. Co. Nos. 21,859–60; May 11; v. 274; p. 403.
"Mason's Nut Malobar." (For Chocolate Marshmallow Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. No. 21,861; May 11; v. 274; p. 403.
"Mrs. Shepards Fruit Flakes." (For Flaked and Cooked Fruits—namely, Apples.) Shepard Fruit Products Company. No. 21,865; May 11; v. 274; p. 403.
"Peerless Laundry Tablets." (For Laundry Tablets.) The M. & S. Chemical Co. No. 21,858; May 11; v. 274; p. 403.
"Swiss-Alpine Style Sweet Milk Chocolate." (For Sweet Chocolate.) York Chocolate Company. No. 21,867; May 11; v. 274; p. 403.
"Welch-Apl." (For a Non-Alcoholic Beverage Consisting of Apple Syrup and Carbonated Water.) The Welch Grape-Juice Company. No. 21,866; May 11; v. 274; p. 403.

ALPHABETICAL LIST OF PRINTS.

"Comfort Coke." (For Fuel-Coke.) United Fuel & Supply Company. No. 5,257; May 11; v. 274; p. 403.
"Starting Right! Bon Bon never Disappoints." (For Baking-Powder.) J. C. Grant Chemical Co. No. 5,256; May 11; v. 274; p. 403.
"Taking Care of Ball Bearings of Our Little Giant Line of Grinding Mills." (For Ball-Bearings of Our Little Giant Line of Grinding Mills Used as Feed-Grinders.) Williams Patent Crusher & Pulverizer Co. No. 5,258; May 11; v. 274; p. 403.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Alcohol, Isopropyl. Standard Oil Company. No. 127,265; May 11; v. 274; p. 382.
Ammonia, bluing, bleaching preparation, and disinfectant. Elberfeld Chemical & Mfg. Co. No. 117,616; May 11; v. 274; p. 367.
Aprons. Brooklyn Shield & Rubber Company. No. 129,168; May 11; v. 274; p. 392.
Arctics. United States Rubber Company. No. 124,922; May 11; v. 274; p. 373.
Auto-top dye and dressing. The Waterproofing Manufacturing Co. No. 125,988; May 11; v. 274; p. 376.
Automobile-bumpers and attaching-brackets. Bifdex Products Company. No. 128,723; May 11; v. 274; p. 389.
Automobiles. Gardner Motor Co. No. 127,363; May 11; v. 274; p. 383.
Automobiles. The Haynes Automobile Company. No. 124,990; May 11; v. 274; p. 374.
Automobiles. Louisiana Motor Car Company. No. 130,229; May 11; v. 274; p. 396.
Autowash used as a cleanser, Compounded. The Woodtite Laboratories. No. 118,720; May 11; v. 274; p. 368.
Bassinettes. L. G. Dibble. No. 128,424; May 11; v. 274; p. 387.
Belt conveyers, Roller-brackets for. Stephens-Adamson Manufacturing Co. No. 89,590; May 11; v. 274; p. 363.
Beverage, Non-alcoholic maltless cola. C. A. Crane. No. 126,102; May 11; v. 274; p. 377.
Beverage, Non-alcoholic non-cereal maltless. The Dairy Products Company. No. 127,500; May 11; v. 274; p. 384.
Billiard-cushions. The B. F. Goodrich Company. No. 126,571; May 11; v. 274; p. 378.
Blankets, Cotton bed-. The Esmond Mills. No. 126,275; May 11; v. 274; p. 377.
Blowers, Bubble. Bogert & Hopper. No. 126,952; May 11; v. 274; p. 380.
Bluing in capsule form, Laundry. Blual Chemical Co. No. 127,465; May 11; v. 274; p. 384.
Bread. Everett, Aughenbaugh & Co. No. 116,735; May 11; v. 274; p. 366.
Bread. Ward Baking Company. No. 128,416; May 11; v. 274; p. 387.
Briquets made from coal. C. H. Smith. No. 108,043; May 11; v. 274; p. 364.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. No. 129,655; May 11; v. 274; p. 393.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. No. 129,658; May 11; v. 274; p. 394.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. No. 129,660; May 11; v. 274; p. 394.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. No. 129,663; May 11; v. 274; p. 394.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. No. 129,666; May 11; v. 274; p. 394.
Brisling and sild, (frequently known generically as sardines.) The Oversea Export Co. Nos. 129,669–70; May 11; v. 274; p. 394.
Bristles and human hair. Andersen-Meyer & Company. No. 126,090; May 11; v. 274; p. 377.
Buggies, carriages automobile-bodies, &c. The F. A. Ames Company. No. 124,830; May 11; v. 274; p. 373.
Burners for stores and furnaces, Crude-oil. A. Papillon. No. 128,517; May 11; v. 274; p. 387.
Candy. American Candy Manufacturing Co. No. 128,192; May 11; v. 274; p. 386.
Candy. E. C. Darnold. No. 129,450; May 11; v. 274; p. 393.
Candy. Westmoreland Candy Co. No. 129,362; May 11; v. 274; p. 392.
Canned fish. Paxton & Gallagher Co. No. 129,079; May 11; v. 274; p. 390.
Canned fruits. Colonial Preserve Company. No. 118,604; May 11; v. 274; p. 368.
Canned fruits and vegetables. Richmond-Chase Company. Nos. 129,086–7; May 11; v. 274; p. 391.
Canned fruits and vegetables. Richmond-Chase Company. No. 129,089; May 11; v. 274; p. 391.
Canned fruits and vegetables. Richmond-Chase Company. No. 129,090; May 11; v. 274; p. 391.
Canned goods, &c. A. Kickbusch Grocery Co. No. 126,526; May 11; v. 274; p. 378.
Canned mackerel. P. Barna. No. 129,440; May 11; v. 274; p. 392.
Canned peaches and apricots. San Fernando Canning Co. No. 114,361; May 11; v. 274; p. 365.
Canned sardines. Globe Canning Company. Nos. 129,497–8; May 11; v. 274; p. 393.
Canned sardines. Globe Canning Company. No. 129,500; May 11; v. 274; p. 393.
Cards, Playing-. Midland Playing Card Co. No. 126,589; May 11; v. 274; p. 378.
Castings, Malleable iron. West Virginia Malleable Iron Co. No. 127,879; May 11; v. 274; p. 385.
Chairs, Ordinary. W. F. Whitney Company. No. 124,701; May 11; v. 274; p. 373.
Cheeses. E. Galbani. No. 100,139; May 11; v. 274; p. 363.
Chocolates and candies. Chéri Incorporated. No. 117,005; May 11; v. 274; p. 367.
Cigarettes. Liggett & Myers Tobacco Company. No. 125,755; May 11; v. 274; p. 375.
Cigarettes. Liggett & Myers Tobacco Company. No. 127,250; May 11; v. 274; p. 381.
Cigarettes. Melikian Cigarettes, Inc. No. 127,821; May 11; v. 274; p. 385.
Cigars. De Nobili Cigar Co. No. 126,852; May 11; v. 274; p. 379.
Cigars. Many, Blanc & Co. No. 125,900; May 11; v. 274; p. 376.
Cleaners, electric vacuum-. Air Way Company. No. 126,441; May 11; v. 274; p. 377.
Cleanser in powdered form for textile goods. A. S. Mann. No. 121,250; May 11; v. 274; p. 370.
Cleaning and polishing materials for jewelry and precious metal ware. Tiffany & Company. No. 128,226; May 11; v. 274; p. 386.
Cleaning compounds for wall-paper. A. K. Bowman. No. 124,639; May 11; v. 274; p. 373.
Cleaning liquid for removing grease and dirt from the hands and ink-stains, &c. L. A. Block. No. 115,754; May 11; v. 274; p. 366.
Coffee. D. W. Thacker. No. 129,294; May 11; v. 274; p. 392.
Coffee. Woolson Spice Company. No. 129,522; May 11; v. 274; p. 393.
Coffees, teas, spices, flavoring extracts, canned vegetables, &c. Odelsa Mfg. Co., The. No. 130,549; May 11; v. 274; p. 396.
Coloring matters for foods and liquids. Lichtenstein & Company, Limited. No. 126,691; May 11; v. 274; p. 379.
Compound in liquid or paste form for cleaning hands, fabrics, glassware, metal ware, &c., painted and varnished surfaces. S. W. Rapp, Jr. No. 127,739; May 11; v. 274; p. 385.
Confectionery. Candy Products Corporation. No. 129,043; May 11; v. 274; p. 390.
Cornmeal. City Mills Company. No. 128,654; May 11; v. 274; p. 388.
Corsets and belts worn as substitutes for corsets. F. G. Baugatz. No. 108,211; May 11; v. 274; p. 364.
Cotton piece goods. Hunter Mfg. & Com. Co. No. 127,086; May 11; v. 274; p. 380.
Cotton piece goods. C. H. Reed. No. 127,014; May 11; v. 274; p. 380.
Cravats and neckties. Feinberg & Feinberg. No. 127,682; May 11; v. 274; p. 385.
Cylinders, Machines for boring automobile and locomotive. W. L. Brubaker & Bros. No. 128,999; May 11; v. 274; p. 390.
Deodorant, an insecticide, and a roach powder. W. Rendorski. No. 116,205; May 11; v. 274; p. 366.
Deodorants and preparations for relief of excessive perspiration. C. B. Imrie. No. 127,286; May 11; v. 274; p. 382.
Doughnuts and cookies. Porterfield Baking Company. No. 130,053; May 11; v. 274; p. 396.
Dresses, Children's. Ritzwoller & Co., Inc. No. 128,744; May 11; v. 274; p. 389.
Dressing for brake linings and the like. George E. Calhoun. No. 128,141; May 11; v. 274; p. 386.
Dye compound for hair, particularly live hair. Fluid-I. H. Stoll. No. 115,444; May 11; v. 274; p. 365.
Embroidery wool, wool threads, and threads made of linen, cotton, metal, or silk. C. R. Meissner Co. No. 129,852; May 11; v. 274; p. 394.
Enameled ware, Steel. The Jacob J. Vollrath M'f'g Co. No. 107,123; May 11; v. 274; p. 364.
Feed, Dairy. St. Albans Grain Company. No. 130,695; May 11; v. 274; p. 396.
Feed, Stock. St. Albans Grain Company. No. 130,692; May 11; v. 274; p. 396.

Films, Cinematographic. Treefilm Company, Inc. No. 128,623; May 11; v. 274; p. 388.
Fine-art publications, &c. Medici Society—American Branch—Inc. No. 104,619; May 11; v. 274; p. 363.
Fire-extinguishing fluid. Everit Chemical Co. No. 127,242; May 11; v. 274; p. 381.
Fireproof floorings and coverings for partitions, walls, and roofings, Composition. J. D. Insulating & Refrigerating Co. No. 124,180; May 11; v. 274; p. 372.
Fishing-tools for wells. Arthur H. Brandon & Co. No. 126,303; May 11; v. 274; p. 377.
Flour, Barley malt. The Gambrill Grain Products Company. No. 130,468; May 11; v. 274; p. 396.
Flour, Corn-. Patent Cereals Company. No. 129,078; May 11; v. 274; p. 390.
Flour, hominy, grits, meal, &c., Corn. Postum Cereal Company. No. 129,986; May 11; v. 274; p. 395.
Flour, Prepared cake-. Mills Brothers Company. No. 129,565; May 11; v. 274; p. 393.
Flour, Wheat-. The Atchison Mills Corporation. No. 130,008; May 11; v. 274; p. 395.
Flour, Wheat-. Dommeyer, Gardner Co. Nos. 122,158–9; May 11; v. 274; p. 371.
Flour, Wheat-. Washburn Crosby Co. No. 129,917; May 11; v. 274; p. 395.
Flour, Wheat-. Washburn-Crosby Company. Nos. 130,864–6; May 11; v. 274; p. 397.
Flour, Wheat-. Washburn-Crosby Company. No. 130,868; May 11; v. 274; p. 397.
Flour, Wheat and buckwheat. Bay City Milling Company. No. 127,234; May 11; v. 274; p. 381.
Flour, Wheat and self-rising wheat. City Mills Company. No. 128,655; May 11; v. 274; p. 388.
Flour, Wheat and self-rising wheat. City Mills Company. No. 128,658; May 11; v. 274; p. 388.
Foods, drugs, and chemicals, machinery and appliances used in their manufacture. Petri and Jones Company. No. 107,567. May 11; v. 274; p. 364.
Forgings, Heat-treated. Heppenstall Forge and Knife Company. No. 129,325; May 11; v. 274; p. 392.
Fountains for poultry and feed-hoppers for stock and poultry, Watering. W. A. McCollough & Sons. No. 121,008; May 11; v. 274; p. 370.
Fruits, Citrus and fresh. L. Powers. No. 129,081; May 11; v. 274; p. 391.
Fruits—namely grapes, Fresh. C. Wilson. No. 129,116; May 11; v. 274; p. 391.
Furnaces, Annealing, tempering, forging, metallurgical, &c. The Strong Carlisle & Hammond Company. No. 129,515; May 11; v. 274; p. 393.
Gas-engines and hoists for same, Marine and stationary. Standard Gas Engine Co. No. 125,915; May 11; v. 274; p. 376.
Glass dishes. Macbeth-Evans Glass Company. No. 123,217; May 11; v. 274; p. 371.
Hair-cutters, Electric. Racine Universal Motor Co. No. 127,604; May 11; v. 274; p. 385.
Hair-tonic. E. Kiger. No. 126,039; May 11; v. 274; p. 376.
Hair-tonic and gloss and shampoo preparation. P. B. Garden. No. 126,511; May 11; v. 274; p. 378.
Handbags, Ladies'. Ritter Bros. Nos. 127,151–2; May 11; v. 274; p. 381.
Hardware, Heavy. The Columbian Hardware Company. No. 126,243; May 11; v. 274; p. 377.
Hats and caps for men, women, and children, Straw. The Townsend Grace Company. No. 127,565; May 11; v. 274; p. 384.
Hats for children and misses. Sears, Roebuck and Co. No. 129,023; May 11; v. 274; p. 390.
Hats for children, girls, and Misses, Straw and cloth. Madge Evans Hat Co. No. 126,734; May 11; v. 274; p. 379.
Hats, Men's. Mt. Tom Hat Manufacturing Company. No. 125,665; May 11; v. 274; p. 375.
Hats, Women's. Sears, Roebuck and Co. No. 128,706; May 11; v. 274; p. 389.
Heels for boots and shoes, Metal, composition, and combination. Liberty Flexible Heel Company. No. 125,708; May 11; v. 274; p. 375.
Hosiery. Fulfashon Hosiery Company. Nos. 128,676–7; May 11; v. 274; p. 388.
Hosiery. S. Halff & Co. No. 121,392; May 11; v. 274; p. 370.
Hosiery. Johnson City Mills. No. 115,178; May 11; v. 274; p. 365.
Ice-cream. Detroit Creamery Company. No. 122,425; May 11; v. 274; p. 371.
Ice-cream and butter. Duluth Creamery & Produce Company. No. 128,730; May 11; v. 274; p. 389.
Ice-cream, frozen custard, and ices. Hendler Creamery Company. No. 129,549; May 11; v. 274; p. 393.
Ignition-magnetos and parts and electrical condensers. Apollo Magneto Corporation. No. 128,585; May 11; v. 274; p. 387.
Inks, Writing-. American Ink Company. No. 128,642; May 11; v. 274; p. 388.
Insecticide. A. O. Chemical Co. No. 127,468; May 11; v. 274; p. 384.
Instruments for indicating, measuring, and recording the velocity of flowing streams. The Pitometer Company. No. 114,083; May 11; v. 274; p. 365.
Insulators for high-tension insulation. The Locke Insulator Manufacturing Company. No. 127,597; May 11; v. 274; p. 385.
Kerosene. Petroleum Products Co. No. 111,625; May 11; v. 274; p. 365.
Kimonos. George Borgfeldt & Co. No. 129,124; May 11; v. 274; p. 391.
Lacings, edgings, elastics, braids, &c., Shoe and corset. The Narrow Fabric Co. No. 116,005; May 11; v. 274; p. 366.
Lamps, candelabra, candlesticks, electroliers and pocket-lights, Electric. Tiffany and Company. Nos. 128,232–3; May 11; v. 274; p. 386.
Lamps, Incandescent electric. Novelty Incandescent Lamp Company. No. 128,614; May 11; v. 274; p. 388.
Laundry-machines, Machines for timing and controlling the period of operation of, &c. The Automatic Appliance Company. Nos. 127,573–4; May 11; v. 274; p. 384.
Lotion, Foot-. Gary Laboratories Company. No. 127,364; May 11; v. 274; p. 383.
Lunch-room equipment, Industrial. Chicago Hardware Foundry Company. No. 124,972; May 11; v. 274; p. 374.
Lye, Powdered. The Sinclair Manufacturing Company. Nos. 127,337–8; May 11; v. 274; p. 382.
Machinery, Tools, and parts thereof. The Warren Tool and Forge Company. No. 124,378; May 11; v. 274; p. 372.
Mattresses. Salisbury & Satterlee Co. No. 128,428; May 11; v. 274; p. 387.
Mattresses, Felt. The Mebane Bedding Co. No. 126,051; May 11; v. 274; p. 376.
Medicinal preparation. C. L. Heffner. No. 125,844; May 11; v. 274; p. 376.
Medicinal tablet for the treatment of anemia and chlorosis. G. W. Carnrick Co. No. 127,577; May 11; v. 274; p. 384.
Medicinal treatment for coughs, bronchitis, croup, sore throat, &c. E. G. Birz. No. 127,351; May 11; v. 274; p. 382.
Medicinal treatment for pyorrhea. The Educator Co. No. 126,679; May 11; v. 274; p. 378.
Medicine for colds, coughs, and other throat and lung diseases. W. E. Bard. No. 127,575; May 11; v. 274; p. 384.
Medicines, headache, neuralgia, rheumatism, la grippe, &c. T. I. C. Parson. No. 127,182; May 11; v. 274; p. 381.
Metals, Babitt, bearing, and type. Great Western Smelting & Refining Company. No. 117,934; May 11; v. 274; p. 367.
Milk, Unsweetened evaporated. A. O. Anderson & Co. No. 129,036; May 11; v. 274; p. 390.
Mirrors for automobiles, Rear-view. The J. Alexander Mfg. Co. No. 121,289; May 11; v. 274; p. 270.
Musical instruments. New York Band Instrument Co. No. 127,255; May 11; v. 274; p. 382.
Musical instruments of the bugle and trumpet type, Wind. C. G. Conn, Ltd. No. 128,080; May 11; v. 274; p. 386.
Oils and greases, Lubricating. W. B. Dick & Company. No. 125,421; May 11; v. 274; p. 375.
Oils and greases, Lubricating. United Products & Sales Corporation. No. 125,411; May 11; v. 274; p. 374.
Ointment for rash, skin infections, burns, chilblains, &c., Antiseptic and healing. H. T. Melhuish. No. 127,440; May 11; v. 274; p. 384.
Oleomargarin. Palmine Company. No. 129,797; May 11; v. 274; p. 391.
Oleomargarin. Wonder-Nut Food Products Company. Nos. 129,959–61; May 11; v. 274; p. 375.
Olive-oil and other edible oils. Torres y Ribelles. No. 116,505; May 11; v. 274; p. 366.
Optical goods. J. C. Kahan. No. 119,833; May 11; v. 274; p. 369.
Overalls, jumpers, pants of khaki, corduroy, &c. Brownstein-Louis Company. No. 120,693; May 11; v. 274; p. 369.
Oysters, canned or otherwise put up, Fresh. L. P. Maggioni & Company. Nos. 125,712–13; May 11; v. 274; p. 375.
Paint, Cold-water. A. E. Maire. No. 124,658; May 11; v. 274; p. 373.
Paints, &c., Dry and water paste. A. B. Ansbacher & Company, Inc. Nos. 120,739–40; May 11; v. 274; p. 369.
Paints, stains, polishes, &c. Gerstendorfer Bros. No. 127,429; May 11; v. 274; p. 383.
Paper, Filter-. Henry Kayser & Fils. No. 129,014; May 11; v. 274; p. 390.
Paper, Non-carbonized typewriting and printing. Powers Paper Company. No. 113,591; May 11; v. 274; p. 365.
Paper, Wrapping-. Moore & Thompson Paper Company. No. 127,324; May 11; v. 274; p. 382.
Perfumes, face and massage creams, lip-pomade, beauty powder, &c. Meyer Brothers Drug Company. No. 124,941; May 11; v. 274; p. 374.
Perfumes, toilet waters, cold-creams, eyebrow-pencils, &c. J. H. Calisher. No. 127,355; May 11; v. 274; p. 383.
Phonograph-cabinets. Grimwood Bros. No. 126,724; May 11; v. 274; p. 379.
Phonographs. General Manufacturing Corporation. No. 128,091; May 11; v. 274; p. 386.

Phonographs. Grand Rapids School Equipment Co. No. 121,245; May 11; v. 274; p. 370.
Phonographs. A. A. Manghisi. No. 128,512; May 11; v. 274; p. 387.
Phonographs. Plymouth Phonograph Co. No. 126,778; May 11; v. 274; p. 379.
Phonographs, graphophones, records, needles, and record-albums, &c. R. H. Macy & Co. No. 121,003; May 11; v. 274; p. 370.
Phonographs, records, and needles. Beacon Phonograph Company. No. 128,875; May 11; v. 274; p. 389.
Physic for children. J. L. Greenbaum. No. 127,369; May 11; v. 274; p. 383.
Pianofortes, grand and upright pianos, and piano-players. J. & C. Fischer. No. 127,672; May 11; v. 274; p. 385.
Pianos and piano-players. H. C. Bay Company. Nos. 121,736–7; May 11; v. 274; p. 370.
Pianos and Piano-Players. H. C. Bay Company. No. 126,270; May 11; v. 274; p. 377.
Pianos, player-pianos, and piano-players. The Baldwin Company. No. 130,154; May 11; v. 274; p. 396.
Picture films, Moving-. The Bray Pictures Corporation. No. 130,083; May 11; v. 274; p. 396.
Pipes, pipe-couplings, reducers, unions, and elbows, Metal. T. R. E. Miller. No. 111,798; May 11; v. 274; p. 365.
Plaster of Paris for dentists' and surgeons' use in laboratory work, Non-adhesive. Newark Plaster Company. No. 118,321; May 11; v. 274; p. 368.
Polishing and cleaning liquid for furniture, floors, and automobile-chassis, &c. L. A. Block. No. 115,753; May 11; v. 274; p. 366.
Polishing metal, glass, silver, aluminum, &c., Preparation for. F. E. Andrews. No. 120,632; May 11; v. 274; p. 369.
Preparation, Powder to be used as a washing. The Mills Brothers Company. No. 127,116; May 11; v. 274; p. 380.
Preparation externally used for treatment of fistula, pollevil, quittor, &c. Fitzerald & Perry. No. 127,243; May 11; v. 274; p. 381.
Preparation for a medicinal tonic for the stomach, kidneys, liver, and bowels. T. G. Walton. No. 125,266; May 11; v. 274; p. 374.
Preparation for preventing paper from slipping over rubber platen on a typewriter or mutigraph-machine. Cant-Slip Co. No. 122,685; May 11; v. 274; p. 371.
Preparation for softening water. California Soda Products Co. No. 123,967; May 11; v. 274; p. 372.
Preparation for the treatment of psoriasis, scrofula, asthma, goiter, chronic bronchistis, &c. Wright & Lawrence. No. 127,343; May 11; v. 274; p. 382.
Preparation having deodorant antiseptic and perspiration-absorbent properties. United Drug Company. No. 126,497; May 11; v. 274; p. 377.
Preparation in cake form for polishing metals. The Hanson & Van Winkle Company. Nos. 124,935–6; May 11; v. 274; pp. 373–4.
Preparations for surface finish in the nature of a varnish, Liquid. Van Camp Hardware & Iron Company. No. 129,157; May 11; v. 274; p. 392.
Radio telegraph and telephone apparatus. Kilbourne & Clark Manufacturing Co. No. 127,091; May 11; v. 274; p. 380.
Razor blades, Safety-. Simmons Hardware Company. No. 128,868; May 11; v. 274; p. 389.
Remedy against dandruff and falling out of hair, &c. R. M. Holquin. No. 125,457; May 11; v. 274; p. 375.
Remedy for falling hair, dandruff, and scalp diseases. S. B. Deaderick. No. 127,241; May 11; v. 274; p. 381.
Remedy for various affections of the lungs and relief of consumptive and asthmatic patients, Internal. V. L. Blahnik & Sons. No. 117,797; May 11; v. 274; p. 367.
Remedy to promote the growth. C. Poetzl. No. 126,777; May 11; v. 274; p. 379.
Ribbons in the piece. Johnson, Cowdin & Co. No. 124,111; May 11; v. 274; p. 372.
Rings, bracelets, necklaces, &c., Finger-. The Deco Co. No. 128,669; May 11; v. 274; p. 388.
Roofing shingles, Steel fire-resisting and surface-. The Farm Equipment Co. No. 126,682; May 11; v. 274; p. 379.
Saffron. H. Schoenfeld. No. 117,997; May 11; v. 274; p. 368.
Salve, Cold, croup, and pneumonia. Hunt Chemical Company. No. 127,372; May 11; v. 274; p. 383.
Salve for colds, fever, rheumatism, diseases of the skin, &c. A. C. Chapa. No. 127,030; May 11; v. 274; p. 380.
Salve, Stainless, croup and pneumonia. Hunt Chemical Company. No. 127,371; May 11; v. 274; p. 383.
Sauce. Towle Sons, Inc. No. 129,196; May 11; v. 274; p. 392.
Sauce, Tobasco and red-chilli, &c. F. S. Vasquez. No. 119,686; May 11; v. 274; p. 368.
Saw-sets. N. O. Hedman. No. 128,889; May 11; v. 274; p. 389.
Sewing-machines, Free Sewing Machine Company. No. 129,544; May 11; v. 274; p. 393.
Shirts, dress, negligée, and work. S. London & Co. No. 128,448; May 11; v. 274; p. 387.
Shoe, leather, and metal polishes. A. Overton. No. 117,893; May 11; v. 274; p. 367.
Shoes, Leather. S. Epstein. No. 124,751; May 11; v. 274; p. 373.
Shoes, Leather. Fritz-Richards Company. No. 127,428; May 11; v. 274; p. 383.
Shoes, leather, fabric, and combination. Fashion Boot Shop. No. 125,456; May 11; v. 274; p. 375.
Silks in pieces, plain and printed, Broad. Friedman & Moss. No. 120,792; May 11; v. 274; p. 369.
Skins for stoppered bottles, Capping-. Julius Schmid, Incorporated. No. 125,438; May 11; v. 274; p. 375.
Soap. Lange Soap Co. No. 122,126; May 11; v. 274; p. 371.
Soap. I. Samuel. No. 121,185; May 11; v. 274; p. 370.
Soap, Western Soap Products Company. No. 126,299; May 11; v. 274; p. 377.
Soda-fountain and soda-water carbonators. The Russ Manufacturing Company. No. 128,408; May 11; v. 274; p. 378.
Soap, Laundry. West Coast Soap Co. No. 117,788; May 11; v. 274; p. 367.
Soap, Liquid. C. E. Gavin. No. 128,151; May 11; v. 274; p. 386.
Soldering compounds in powder form. R. S. Churchill. No. 124,785; May 11; v. 274; p. 373.
Steel bars, rods, billets, blooms, forgings, &c. Crucible Steel Company of America. No. 129,971; May 11; v. 274; p. 395.
Steel, Tool-. Edgar T. Ward's Sons Co. No. 129,918; May 11; v. 274; p. 395.
Stencils, oil-board, wax seals, and rubber bands. Henry Moss & Co. No. 111,504; May 11; v. 274; p. 364.
Stove and shoe polishes, stove and shoe polishing outfits, and shoe-cleaner. Hollingshead, W. R., Co. No. 97,083; May 11; v. 274; p. 363.
Suits and overcoats, Men's and young men's. S. Bacharach and Company. No. 127,992; May 11; v. 274; p. 386.
Suits, shoes, hats, shirts, hosiery, Men's and boys'. Madansky Brothers. No. 122,604; May 11; v. 274; p. 371.
Sweaters, underwear, silk gloves and hosiery, &c. Jennings Lace Works Corporation. No. 129,145; May 11; v. 274; p. 392.
Syrups, Table-. Argonne Products Co. No. 129,038; May 11; v. 274; p. 390.
Tank-balls. Essex Rubber Company. No. 128,328; May 11; v. 274; p. 387.
Taps and valves of metal for general use with fluids. J. Jackson, Limited. No. 128,442; May 11; v. 274; p. 387.
Tea. Chase & Sanborn. Nos. 129,126–7; May 11; v. 274; p. 391.
Thread and yarn. H. E. Locke & Company. No. 120,758; May 11; v. 274; p. 369.
Tire patches and inner liners, Automobile-. E. M. Steell. No. 121,788; May 11; v. 274; p. 371.
Tires and inner tubes of rubber, Automobile-. O. Williams. No. 126,086; May 11; v. 274; p. 376.
Tobacco, Smoking-. United Drug Company. No. 126,078; May 11; v. 274; p. 376.
Toilet preparations. Druggists Concentrates Co. No. 125,666; May 11; v. 274; p. 375.
Tools and attachments for removing gears, pulleys, &c., from shafts and the like, removing and replacing automobile tires, rims, &c. The Greb Company. No. 116,415; May 11; v. 274; p. 366.
Toy airplanes. Lawrence Airplane Model and Supply Company. No. 118,389; May 11; v. 274; p. 368.
Toy building-blocks. George Borgfeldt & Co. No. 128,876; May 11; v. 274; p. 389.
Trestles. The Safety Equipment Company. No. 126,699; May 11; v. 274; p. 379.
Trunks, traveling-bags, suitcases, and brief-cases. Rice-Stix Goods Company. No. 125,974; May 11; v. 274; p. 396.
Undergarments, Children's and misses'. The Fair Maid Undergarment Co. No. 126,680. May 11; v. 274; p. 378.
Underwear for men and women. Hope Knitting Company. No. 128,685; May 11; v. 274; p. 388.
Underwear for men and women. Watts, Ritter & Company. No. 128,716; May 11; v. 274; p. 389.
Union-suits, Athletic. Premier Manufacturing Co. No. 128,698; May 11; v. 274; p. 389.
Vermifuge and remedies for indigestion, biliousness, colds, &c., Dr. J. F. True & Co. No. 136,979; May 11; v. 274; p. 380.
Vinegar. Dixie Fruit Products Corporation. No. 129,171; May 11; v. 274; p. 392.
Waists and blouses, Ladies'. A. R. Haas. No. 124,079; May 11; v. 274; p. 372.
Washing compound, Laundry-. A. E. Petersen. No. 110,033; May 11; v. 274; p. 364.
Washing compounds, Hand-. A. J. Leonard. No. 126,642; May 11; v. 274; p. 378.
Water-heaters, &c., Gas, gasolene, and kerosene. The Sands Manufacturing Company. No. 130,121; May 11; v. 274; p. 396.
Waterproof automobile top and curtain material, silk and woolen fabrics for upholstering, &c. The W. J. Donnelly Company. No. 115,140; May 11; v. 274; p. 365.
Webs, Elastic. Faire Bros. & Co. No. 117,659; May 11; v. 274; p. 367.
Woolen cloth for tailoring purposes. Rosenberg Bros. No. 119,047; May 11; v. 274; p. 368.

CLASSIFICATION OF PATENTS

MAY 11, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

2— 147: 1,340,117
149: 1,339,731
4— 1: 1,340,126
5: 1,339,690
18: 1,339,585
26: 1,339,566
5— 9: 1,339,650
13: 1,339,738
1,339,880
72: 1,340,015
7— 11: 1,339,698
9— 20: 1,339,647
22: 1,339,532
1,339,647
10— 122: 1,339,473
12— 78: 1,339,591
13— 5: 1,340,044
19: 1,340,003
21: 1,339,825
15— 17: 1,340,133
20: 1,339,767
37: 1,339,700
1,339,894
1,340,040
1,340,003
48: 1,339,745
52: 1,340,115
56: 1,339,398
1,339,830
1,339,925
16— 88: 1,339,479
111: 1,339,709
165: 1,339,805
17— 14: 1,339,901
24: 1,339,590
1,339,623
18— 6: 1,339,736
56: 1,339,789
59: 1,340,041
19— 15: 1,339,888
20— 5: 1,339,915
6: 1,339,425
16: 1,340,084
24: 1,339,790
40: 1,340,069
67: 1,339,775
113: 1,340,045
21— 69: 1,339,439
1,339,913
150: 1,339,786
22— 105: 1,339,642
23— 1: 1,339,494
1,339,519
11: 1,339,431
13: 1,339,706
24: 1,339,675
1,339,947
28: 1,339,686
24— 1: 1,339,520
102: 1,339,713
103: 1,340,073
132: 1,339,419
133: 1,339,420
139: 1,340,095
231: 1,339,986
1,340,048
259: 1,340,070
25— 1: 1,339,535
1,339,712
131: 1,339,912
132: 1,339,601
26— 8: 1,339,509
18: 1,339,826
28— 5: 1,339,869
29— 7: 1,339,443
26: 1,339,400
29: 1,339,816
70: 1,339,815
80: 1,339,658
84: 1,339,434
85: 1,339,773
1,339,774
87.1: 1,339,422
148: 1,339,722
1,340,032
156: 1,339,672
156.1: 1,340,037
30— 13: 1,339,797
31— 78: 1,340,097
32— 4: 1,339,640
1,339,821
12: 1,339,812
1,340,089
33— 6: 1,339,702
46: 1,339,450
1,339,919
76: 1,339,644
97: 1,339,405
117: 1,340,125
133: 1,339,748
172: 1,339,384
174: 1,339,639
178: 1,339,896
199: 1,339,573
201: 1,340,022
215: 1,339,787
34— 19: 1,339,705
23: 1,339,771
26: 1,339,784
35— 2: 1,340,052
36— 5: 1,339,994
42: 1,339,438
44: 1,340,049
37— 5: 1,339,664
17: 1,339,866
24: 1,339,687
49: 1,339,548
54: 1,339,606
40— 115: 1,339,401
130: 1,340,067
145.1: 1,339,703
41— 9: 1,339,457
38: 1,339,892
42— 42: 1,339,867
72: 1,340,127
43— 45: 1,339,832
52: 1,339,697
81: 1,339,481
145: 1,339,556
45— 13: 1,340,014
26: 1,339,525
27: 1,339,501
77: 1,339,842
98: 1,339,673
116: 1,339,389
1,340,065
46— 22: 1,339,493
1,339,536
37: 1,340,047
40: 1,340,109
41: 1,339,399
59: 1,339,871
63: 1,340,001
51— 4: 1,339,746
1,339,860
1,340,030
1,340,031
7: 1,339,511
16: 1,339,397
52— 5: 1,339,975
53— 4: 1,339,662
6: 1,339,625
54— 30: 1,339,777
55— 13: 1,339,605
39: 1,339,436
107: 1,339,874
56— 10: 1,339,924
193: 1,339,674
474: 1,340,088
58— 86: 1,339,941
88: 1,340,003
59— 96: 1,339,631
60— 13: 1,339,483
41: 1,339,730
70: 1,339,508
62— 109: 1,339,659
118: 1,339,622
64— 5: 1,339,803
1,340,120
17: 1,339,574
24: 1,339,476
30: 1,339,811
55: 1,340,102
62: 1,339,991
66: 1,339,455
66— 4: 1,339,592
5: 1,339,959
24: 1,339,715
28: 1,339,708
67— 36: 1,339,788
59: 1,339,699
68— 9: 1,339,917
10: 1,339,831
18: 1,339,588
69— 17: 1,339,776
70— 19: 1,339,446
53: 1,339,668
91: 1,339,721
124: 1,339,412
128: 1,340,051
72— 7: 1,339,920
38: 1,339,595
66: 1,339,388
82: 1,339,819
73— 32: 1,339,952
54: 1,339,383
1,339,561
68: 1,339,909
109: 1,339,989
74— 32: 1,339,523
34: 1,339,643
39: 1,339,660
41: 1,340,011
46: 1,339,474
1,339,587
51: 1,339,408
1,340,113
55: 1,339,411
56: 1,339,758
1,339,766
58: 1,339,477
79: 1,339,454
107: 1,339,435
108: 1,339,427
1,339,956
75— 1: 1,339,505
19: 1,339,544
1,339,545
50: 1,339,469
76— 82: 1,339,725
77— 21: 1,339,461
59: 1,339,958
78— 1: 1,340,138
46: 1,339,453
80— 48: 1,340,129
81— 18: 1,339,448
157: 1,340,092
195: 1,339,641
82— 1: 1,339,791
5: 1,339,836
19: 1,339,983
24: 1,339,984
32: 1,339,837
44: 1,339,877
83— 11: 1,339,499
1,339,950
14: 1,339,932
1,339,933
82: 1,339,682
1,339,683
84— 33: 1,339,960
44: 1,339,953
61: 1,340,019
78: 1,339,418
133: 1,340,098
144: 1,339,689
168: 1,339,848
178: 1,340,017
87— 12: 1,340,050
88— 33: 1,339,386
42: 1,339,974
54: 1,340,021
89— 27: 1,339,390
37: 1,340,111
40: 1,339,410
42: 1,339,614
90— 3: 1,339,921
15: 1,339,490
33: 1,339,656
1,339,657
91— 46: 1,339,400
47: 1,339,467
67.4: 1,340,028
68: 1,339,462
91— 68: 1,339,529
70.2: 1,339,710
92— 2: 1,339,489
93— 2: 1,339,808
81: 1,340,110
88: 1,339,887
94— 41: 1,340,131
97— 13: 1,339,586
33: 1,339,840
35: 1,339,864
45: 1,340,057
98— 4: 1,340,033
26: 1,339,437
32: 1,339,761
99— 11: 1,339,528
12: 1,339,488
60: 1,339,603
100— 31: 1,339,396
47: 1,339,600
101— 7: 1,339,569
44: 1,339,881
111: 1,340,122
125: 1,339,857
282: 1,339,526
394: 1,339,607
396: 1,340,072
409: 1,339,654
102— 29: 1,339,735
103— 10: 1,339,500
44: 1,339,723
65: 1,339,943
84: 1,339,621
104— 20: 1,340,046
134: 1,339,502
105— 48: 1,339,395
1,339,513
368: 1,339,890
106— 37: 1,339,552
107— 12: 1,339,637
57: 1,339,616
109— 150: 1,339,741
110— 18: 1,339,729
32: 1,339,859
40: 1,339,531
99: 1,339,615
111— 16: 1,339,576
229: 1,339,936
112— 2: 1,340,099
46: 1,339,633
62: 1,339,645
71: 1,339,732
122: 1,339,742
248: 1,339,733
114— 53: 1,339,717
66.5: 1,339,755
124— 12: 1,339,949
15: 1,339,846
60: 1,339,603
125— 11: 1,339,452
126— 39: 1,339,478
91: 1,339,944
99: 1,340,134
287: 1,339,571
319: 1,340,090
333: 1,339,491
343.5: 1,339,719
128— 16: 1,339,711
112: 1,339,946
164: 1,339,865
256: 1,339,510
286: 1,339,602
309: 1,339,691
1,339,692
129— 11: 1,339,768
16: 1,340,034
1,340,035
130— 5: 1,339,737
19: 1,339,360
32: 1,340,079
3: 1,339,632
17: 1,339,863
57: 1,339,724
134— 51: 1,339,728
79: 1,339,728
135— 10: 1,339,527
137— 68: 1,339,734
75: 1,339,547
76: 1,340,061
104: 1,339,750
1,340,123
139— 16: 1,339,967
28: 1,339,969
51: 1,339,841
71: 1,339,753
79: 1,339,716
89: 1,339,572
94: 1,339,507
140— 122: 1,340,029
141— 9: 1,339,810
143— 89: 1,339,747
122: 1,340,042
145: 1,340,128
145— 68: 1,340,026
146— 14: 1,340,020
149— 5: 1,339,751
150— 50: 1,339,851
152— 5: 1,339,472
1,339,875
180— 1: 1,340,024
1,339,876
8: 1,339,800
10: 1,339,516
13: 1,339,782
1,339,868
1,339,948
1,339,951
183— 7: 1,339,471
1,339,480
14: 1,339,854
1,339,963
1,339,978
1,339,979
21: 1,339,651
1,340,044
181: 1,339,629
50: 1,339,676
184— 1: 1,339,538
154— 2: 1,339,696
9: 1,339,451
16: 1,339,992
1,339,611
155— 5: 1,339,611
13: 1,339,445
20: 1,339,608
31: 1,339,891
185— 30: 1,340,013
41: 1,339,669
180: 1,339,537
188— 1: 1,339,679
123— 90: 1,339,839
108: 1,339,496
1,339,497
113: 1,339,517
119: 1,339,465
141: 1,340,062
149: 1,339,655
154: 1,339,429
169: 1,339,463
1,340,116
180: 1,340,087
185: 1,340,124
187.5: 1,339,883
1,339,884
1,339,949
15: 1,339,846
1,339,452
1,339,478
1,339,944
1,340,134
1,339,571
1,339,490
1,339,782
1,339,868
1,339,948
1,339,951
1,339,854
1,339,963
1,339,978
1,339,979
1,339,651
1,340,044
1,339,676
1,339,696
1,339,451
1,339,992
1,339,611
1,339,445
1,339,608
1,339,891
1,339,669
1,339,537
156— 38: 1,339,464
39: 1,340,103
46: 1,340,066
157— 1: 1,339,504
158— 28: 1,340,012
36: 1,339,441
53: 1,340,038
74: 1,339,580
1,339,709
75: 1,339,579
106: 1,339,618
160— 1: 1,339,402
161— 1: 1,339,634
8: 1,339,468
164— 17: 1,339,990
29: 1,340,006
49: 1,340,157
58: 1,340,018
61: 1,339,807
64: 1,339,878
166— 1: 1,339,955
8: 1,339,898
167— 3: 1,339,783
169— 23: 1,339,567
42: 1,339,829
170— 159: 1,339,886
171— 97: 1,339,903
1,339,923
123: 1,339,910
223: 1,340,004
1,340,005
229: 1,339,930
1,339,996
317: 1,339,897
322: 1,339,988
172— 179: 1,339,817
1,339,929
1,339,945
276: 1,339,928
288: 1,339,466
269: 1,339,694
324: 1,339,987
173— 21: 1,340,027
183: 1,339,610
1,339,804
294: 1,339,394
1,339,456
1,339,981
318: 1,339,907
321: 1,339,902
367: 1,339,533
176— 34: 1,340,054
40: 1,339,998
45: 1,339,914
177— 7: 1,339,559
350: 1,339,566
178— 33: 1,339,824
46: 1,339,793
88: 1,339,549
1,339,550
1,339,551
179— 16: 1,339,575
100: 1,339,814
109: 1,339,518
180— 1: 1,340,024
14: 1,340,112
33: 1,339,387
67: 1,339,475
69: 1,339,822
70: 1,339,688
90: 1,339,568
183— 7: 1,339,471
45: 1,339,726
62: 1,339,495
77: 1,339,757
1,339,498
1,340,058
184— 1: 1,339,538
1,339,546
1,339,872
6: 1,339,530
1,339,798
54: 1,339,540
69: 1,339,619
30: 1,340,013
37: 1,339,934
1: 1,339,679

188— 16: 1,339,524
18: 1,339,895
130: 1,339,780
213: 1,339,413
1,339,414
1,339,415
1,339,416
1,340,008
1,340,009
1,340,010
219: 1,340,007
189— 62: 1,339,973
190— 13: 1,339,533
1,339,534
33: 1,339,653
192— 7: 1,339,801
193— 1: 1,339,904
4: 1,339,646
10: 1,339,977
14: 1,339,627
24: 1,339,486
26: 1,339,834
196— 26: 1,339,727
197— 186: 1,339,806
200— 8: 1,339,911
11: 1,339,754
17: 1,339,906
24: 1,340,121
37: 1,340,039
52: 1,339,844
1,339,845
68: 1,339,976
72: 1,339,820
1,340,000
83: 1,340,086
93: 1,339,778
94: 1,339,900
1,339,922
117: 1,340,080
200— 131: 1,339,965
169: 1,339,506
203— 5: 1,339,470
204— 29: 1,339,835
1,339,853
64: 1,339,393
1,339,428
206— 38: 1,339,899
41: 1,339,577
63: 1,339,908
208— 32: 1,339,433
38: 1,339,624
94: 1,339,554
210— 18: 1,339,980
54: 1,339,684
62: 1,339,769
211— 11: 1,339,652
29: 1,339,885
32: 1,340,132
37: 1,339,823
44: 1,339,503
213— 5: 1,339,487
39: 1,339,743
42: 1,339,714
1,339,940
67: 1,340,105
215— 87: 1,339,442
216— 9: 1,339,764
217— 12: 1,340,119
44: 1,339,749
76: 1,340,023
89: 1,340,075
95: 1,339,701
1,339,862
219— 3: 1,339,970
8: 1,339,515
10: 1,339,417
1,339,966
1,339,967
219— 10: 1,339,968
1,339,969
1,339,971
1,339,972
15: 1,340,056
34: 1,339,935
220— 39: 1,339,485
57: 1,339,905
86: 1,339,562
91: 1,339,584
221— 24: 1,339,578
1,339,982
32: 1,339,765
78: 1,339,916
79: 1,340,043
83: 1,339,626
85: 1,340,078
100: 1,339,522
114: 1,339,635
122: 1,339,557
224— 5: 1,340,076
1,340,077
1,339,704
23: 1,339,795
226— 2: 1,339,595
229— 14: 1,339,430
72: 1,339,392
92.1: 1,340,114
230— 5: 1,339,563
234— 1.5: 1,339,381
235— 59: 1,339,903
60: 1,339,542
1,339,704
1,339,706
98: 1,339,744
105: 1,340,036
236— 15: 1,339,964
85: 1,340,106
237— 17: 1,339,813
238— 14: 1,339,612
322: 1,340,135
331: 1,339,718
240— 41: 1,339,695
48.4: 1,339,604
61: 1,339,954
78: 1,339,985
242— 58: 1,339,460
147: 1,340,064
243— 10: 1,339,594
244— 1: 1,339,432
3: 1,339,570
6: 1,340,053
21: 1,339,828
245— 2: 1,339,541
5: 1,339,802
246— 49: 1,339,918
182: 1,339,677
456: 1,339,597
1,339,598
247— 20: 1,339,847
248— 1: 1,340,108
20: 1,339,449
1,339,792
22: 1,339,843
34: 1,339,391
37: 1,339,833
182: 1,340,068
249— 58: 1,339,539
250— 6: 1,340,101
17: 1,339,772
20: 1,339,927
251— 20: 1,340,107
77: 1,339,665
99: 1,339,882
134: 1,340,060
253— 189: 1,340,091
254— 2: 1,339,827
71: 1,339,407
84: 1,339,459
106: 1,339,581
1,339,582
1,339,583
1,339,613
111: 1,339,926
145: 1,339,666
190: 1,339,931
257— 125: 1,339,752
263: 1,339,385
259— 72: 1,339,818
261— 12: 1,339,403
121: 1,339,609
263— 6: 1,339,564
15: 1,339,855
20: 1,340,104
265— 62: 1,339,759
68: 1,339,440
266— 4: 1,339,424
267— 16: 1,339,779
19: 1,339,484
41: R. 14,856
268— 4: 1,339,879
271— 27: 1,339,404
1,339,809
35: 1,339,558
1,339,648
1,339,649
275— 19: 1,339,667
277— 20: 1,339,997
280— 47: 1,339,961
53: 1,339,514
61: 1,339,861
145: 1,340,055
281— 1: 1,339,937
283— 1: 1,339,693
34: 1,339,942
283— 45: 1,340,100
66: 1,339,995
284— 18: 1,339,555
285— 47: 1,340,118
54: 1,339,740
75: 1,339,620
107: 1,339,858
130: 1,339,636
197: 1,339,739
286— 7: 1,339,762
12: 1,340,130
287— 35: 1,339,638
52: 1,339,852
288— 1: 1,339,599
291— 16: 1,340,016
292— 128: 1,339,781
175: 1,339,670
221: 1,339,492
296: 1,339,856
293— 55: 1,339,756
294— 24: 1,339,444
114: 1,340,083
296— 30: 1,339,521
84: 1,339,889
1,340,025
96: 1,339,770
145: 1,339,838
299— 43: 1,339,382
78: 1,339,785
115: 1,340,136
303— 15: 1,339,681
1,339,720
18: 1,339,680
20: 1,339,962
53: 1,339,678
304— 2: 1,339,661
20: 1,339,458
1,339,482

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adamson, Andrew J., Winner, S. D. Automobile-heater. No. 1,340,314; May 18; v. 274; p. 445.

Adix, Albert W., and G. W. Haglund, Boone, Iowa. Hog-breeding crate. No. 1,340,357; May 18; v. 274; p. 453.

Ahearn, Thomas, Ottawa, Ontario, Canada. Resetting device for phonographs. No. 1,340,358; May 18; v. 274; p. 453.

Ainsworth, Howard D. (See Freitag, K. J. W., and Ainsworth.)

Air Brake Safety Appliance Co. (See Hellmann, L. F., and Baxter, assignors.)

Albertson & Company. (See Albertson, Frans O., assignor.)

Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-seat reamer. No. 1,340,359; May 18; v. 274; p. 453.

Alexander, True, assignor to Norton Iron Works, Ashland, Ky. Nail-packing machinery. No. 1,340,200; May 18; v. 274; p. 424.

Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,340,592; May 18; v. 274; p. 498.

Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,340,593; May 18; v. 274; p. 498.

Alleman, Edward C., Kenosha, Wis., assignor to Simmons Company. Method of and apparatus for applying liquid coating. No. 1,340,645; May 18; v. 274; p. 508.

Allen, Herbert, Somerset, Ohio. Disintegrating-machine. No. 1,340,201; May 18; v. 274; p. 424.

Allen, Mary P., executrix. (See Allen, William P.)

Allen, William P., deceased, Chicago, Ill.; M. F. Allen, executrix. Dirigible tractor. No. 1,340,514; May 18; v. 274; p. 483.

Allis-Chalmers Manufacturing Company. (See Nicht, Alexander J., Jr., assignor.)

American Arch Company. (See Anthony, J. T., and Bean, assignors.)

American Can Company. (See Eberhart, Felix, assignor.)

American Can Company. (See Nowack, Charles H., assignor.)

American Chain Company. (See Reyburn, John R., assignor.)

American Optical Company. (See Day, George H., assignor.)

American Optical Company. (See Hill, Harry W., assignor.)

American Optical Company. (See Tillyer, Edgar D., assignor.)

American Platinum Works. (See Koch, Theodor, assignor.)

American Telephone and Telegraph Company. (See Thompson, George K., assignor.)

Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Knitting-machine. No. 1,340,695; May 18; v. 274; p. 518.

Anderson, August P., Chicago, Ill. Refrigerating apparatus. No. 1,340,646; May 18; v. 274; p. 508.

Anderson, Edward L., assignor to R & G Company, Attleboro, Mass. Manufacture of buttons. No. 1,340,515; May 18; v. 274; p. 483.

Anderson, John A., Lockport, Ill. Combined bushing and valve. No. 1,340,810; May 18; v. 274; p. 538.

Andren, Fritz L., Chicago, Ill. Wire-coiling machine. No. 1,340,516; May 18; v. 274; p. 483.

Angel, Andrea, deceased; M. L. Angel, executrix, Oxford, England. Dyestuff and making same. No. 1,340,696; May 18; v. 274; p. 518.

Angel, Mary L., executrix. (See Angel, Andrea.)

Anthony, James T., East Orange, N. J., and G. M. Bean, Los Angeles, Calif., assignors to American Arch Company, New York, N. Y. Oil-burning locomotive. No. 1,340,202; May 18; v. 274; p. 424.

Anthony, Stanley, Boston, Mass. Push-button. No. 1,340,139; May 18; v. 274; p. 413.

Anthony, Stanley, Boston, Mass. Card-index. No. 1,340,140; May 18; v. 274; p. 413.

Armstrong, Celia J. (See Jennings, W., and Armstrong.)

Arno, Oliver H., assignor to G. O. G. Coale, trustee, Boston, Mass. Tracking device. No. 1,340,360; May 18; v. 274; p. 454.

Ashley, William C., Chicago, Ill. Dish-washing machine. No. 1,340,517; May 18; v. 274; p. 483.

Augustus, Albert A., Cleveland, Ohio. Vehicle-top. No. 1,340,518; May 18; v. 274; p. 484.

Austin, Herbert, Bromsgrove, England. Road-wheel of the sheet-metal type. No. 1,340,697; May 18; v. 274; p. 518.

Automatic Bookkeeping Register Company. (See Hayes, B. P., and Laughlin, assignors.)

Badenhausen, John P., Philadelphia, Pa. Riveting-machine and riveting. No. 1,340,361; May 18; v. 274; p. 454.

Bally, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Electric furnace. No. 1,340,203; May 18; v. 274; p. 424.

Baird, Philander C., Oklahoma, Okla. Bed-supporting means for vehicles. No. 1,340,204; May 18; v. 274; p. 424.

Baltary, Shain E., Baltimore, Md. Pressing-machine. No. 1,340,519; May 18; v. 274; p. 484.

Baker, Weller H. (See Reid, Edward M., assignor.)

Balkwill, Stephen, Cleveland, Ohio. Railway-crossing. No. 1,340,205; May 18; v. 274; p. 425.

Ball Brothers Glass Manufacturing Company. (See Bingham, Alvah L., assignor.)

Ballman, Edwin C., assignor of one-half to S. A. Whitten, St. Louis, Mo. Lathe-stopping mechanism. No. 1,340,811; May 18; v. 274; p. 539.

Ballou, B. A., & Co. (See Ballou, Frederick A., Jr., assignor.)

Ballou, Frederick A., Jr., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Spring-ring. No. 1,340,206; May 18; v. 274; p. 425.

Barbarou, Marius J. B., Neuilly-sur-Seine, France. Cylinder for internal-combustion engines. No. 1,340,647; May 18; v. 274; p. 509.

Barber Asphalt Paving Company, The. (See Oliensis, G. L., and Miller, assignors.)

Barbour Flax Spinning Company. (See Tracy, Homer D., assignor.)

Barnes, Avery, Danville, Ill. Valve-timing gear for explosive-engines. No. 1,340,362; May 18; v. 274; p. 454.

Barnes, Benie A., assignor of one-half to C. W. Early, Arkansas City, Kans. Composition for cleaning and polishing. No. 1,340,747; May 18; v. 274; p. 527.

Barnum, Paul, San Francisco, Calif. Tire-carrier. No. 1,340,431; May 18; v. 274; p. 468.

Barrell, William L., Lawrence, Mass. Thread-parting mechanism for looms. No. 1,340,207; May 18; v. 274; p. 425.

Barrett Company, The. (See Weiss, John M., assignor.)

Batchelder, Frank R., Worcester, Mass. Pocketed carrier. No. 1,340,141; May 18; v. 274; p. 413.

Batchelder, Frank R., Worcester, Mass. Pocketed carrier. No. 1,340,142; May 18; v. 274; p. 413.

Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,340,143; May 18; v. 274; p. 413.

Baum, Erich, Nuremberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleansing compound and making same. No. 1,340,315; May 18; v. 274; p. 445.

Baxter, William W. (See Hellmann, L. F., and Baxter.)

Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Handling apparatus. No. 1,340,648; May 18; v. 274; p. 509.

Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)

Bean, Louis A., Denver, Colo. Direction-indicator. No. 1,340,363; May 18; v. 274; p. 454.

Bean, Guy M. (See Anthony, J. T., and Bean.)

Beaty, William S., Milton, Ontario, Canada. Swing-pole track-hinge for litter-carriers. No. 1,340,208; May 18; v. 274; p. 425.

Beck, William E., Birmingham, England. Stand for watches. No. 1,340,859; May 18; v. 274; p. 548.

Beidler, George C., Rochester, N. Y. Photographic-printing apparatus. No. 1,340,209; May 18; v. 274; p. 425.

Békefi, Vendel L., Cleveland, Ohio. Air-propeller. No. 1,340,210; May 18; v. 274; p. 426.

Benjamin, Clarence F., Milford, Conn. Machine for dropping bullets, &c. No. 1,340,432; May 18; v. 274; p. 468.

Bennett, James, Cleveland, Ohio. Boiler-tube and combustion-chamber cleaner. No. 1,340,144; May 18; v. 274; p. 414.

Bentley, Robert J., Monroe, Mich. Phonograph-recordfiling device. No. 1,340,364; May 18; p. 274; p. 455.

Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,812; May 18; v. 274; p. 539.

Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,813; May 18; v. 274; p. 539.

Bernau, Friedrich. (See Bernau, Gottfrid J., assignor.)

Bernau, Gottfrid J., New York, N. Y., assignor of one-half to F. Bernau, Cöln-Kalk, Germany. Doll. No. 1,340,848; May 18; v. 274; p. 546.

Berry, Ora, Princeton, Ind. Snowplow. No. 1,340,263; May 18; v. 274; p. 435.

Berry, William H., Chester, Pa. Feed-water regulator. No. 1,340,365; May 18; v. 274; p. 455.

Bettcher Stamping and Manufacturing Company. (See Bump, Edward D., assignor.)

Beynon, John H., Ontario, Calif. Atomizer. No. 1,340,433; May 18; v. 274; p. 468.

Bierbaum, Christopher H., Buffalo, N. Y. Making lubricants. No. 1,340,316; May 18; v. 274; p. 445.

Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator for plates and the like. No. 1,340,594; May 18; v. 274; p. 499.

Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator for shear-tables. No. 1,340,595; May 18; v. 274; p. 499.

Bilan, John, Flint, Mich. Stove. No. 1,340,367; May 18; v. 274; p. 455.

Bingham, Aivah L., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,340,366; May 18; v. 274; p. 455.

Bird Machine Company. (See Clarke, Ralph S., assignor.)

Birkenbeuel, Edward B., Portland, Oreg. Jar-seal tester. No. 1,340,473; May 18; v. 274; p. 475.

Birkenmaier, Theodore. St. Louis, Mo. Water-controlling mechanism for ice-cans. No. 1,340,814; May 18; v. 274; p. 539.

Black, Douglas F., Tofield, Alberta, Canada. Collapsible poultry-crate. No. 1,340,815; May 18; v. 274; p. 539.

Blair, Frank P., Toledo, C. L. Dows and G. S. Merrill, Cleveland, Ohio; said Dows assignor to said Blair and Merrill. Indicating device. No. 1,340,145; May 18; v. 274; p. 414.

Blake, Charles C., Brookline, Mass. Insole-rounding machine. No. 1,340,520; May 18; v. 274; p. 484.

Blake, George A., Storrs, Conn. Portable fire-escape. No. 1,340,146. May 18; v. 274; p. 414.

Blunt, James G., Schenectady, N. Y. Universal joint. No. 1,340,368; May 18; v. 274; p. 455.

Bono, Michelangelo, New York, N. Y. Delivering apparatus. No. 1,340,748; May 18; v. 274; p. 527.

Borden Book Stack Company, The. (See Borden, William A., assignor.)

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borden, William A., assignor to The Borden Book Stack Company, Westport, Conn. Book-shelf. No. 1,340,317; May 18; v. 274; p. 445.

Boswell, Fletcher O., Philadelphia, Pa. Vehicle suspension and shock-absorber. No. 1,340,434; May 18; v. 274; p. 468.

Botts, Raymond A., Hanford, Calif. Harvester for Egyptian corn, Milo maize, and the like. No. 1,340,816; May 18; v. 274; p. 540.

Boughton, Charles H. E., Chicago, Ill. Mount for photographs and the like. No. 1,340,369; May 18; v. 274; p. 456.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Pump. No. 1,340,596; May 18; v. 274; p. 499.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Pump. No. 1,340,597; May 18; v. 274; p. 499.

Boyd, William W., assignor to Buffalo Scale Company, Buffalo, N. Y. Scale. No. 1,340,318; May 18; v. 274; p. 445.

Boze, William H., Norfolk, Va. Collapsible stand. No. 1,340,370; May 18; v. 274; p. 456.

Bradbury, Frederick L., Bridgeport, Conn. Cruller-forming die. No. 1,340,371; May 18; v. 274; p. 456.

Bradlee, Arthur T. (See Osborne, Ernest J., assignor.)

Bradley, Linn. (See Schmidt, W. A., and Bradley.)

Braid, Fountain S., New York, N. Y. Portfolio-drawer. No. 1,340,319; v. 274; p. 445.

Brandon, Irwin, Naughton Glen, Alberta, Canada. Comb-cleaner. No. 1,340,817; May 18; v. 274; p. 540.

Breeze, George A., Detroit, Mich. Shim-holder for valve-tappets. No. 1,340,211; May 18; v. 274; p. 426.

Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation, Flexible tube. No. 1,340,818; May 18; v. 274; p. 540.

Brinton, H., Company. (See Ames, Elmer U., assignor.)

Brisbee, Ernest J., Cleveland, Ohio. Pipe-holding vise. No. 1,340,147; May 18; v. 274; p. 414.

Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. No. 1,340,148; May 18; v. 274; p. 415.

Brouwers, Ysbrand, Wageningen, Netherlands. Coaling device. No. 1,340,819; May 18; v. 274; p. 540.

Brown, Boggs & Co. Limited, The. (See Brown, John M., assignor.)

Brown, Clarence M., Minden, La. Air-hose coupling. No. 1,340,820; May 18; v. 274; p. 540.

Brown, John M., assignor to The Brown, Boggs Co. Limited, Hamilton, Ontario, Canada. Crimped-elbow-bending machine. No. 1,340,320; May 18; v. 274; p. 446.

Brown, Margaret J., executrix. (See Brown, Perry.)

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Brake. No. 1,340,321; May 18; v. 274; p. 446.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Hand-brake for railway-cars. No. 1,340,322; May 18; v. 274; p. 446.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Hand-brake for railway-cars. No. 1,340,322; May 18; v. 274; p. 446.

Brown, Raymond E., Glen Ridge, N. J., assignor to Heyl & Patterson Incorporated, Pittsburgh, Pa. Rail-clamp. No. 1,340,598; May 18; v. 274; p. 499.

Browne, Arthur W. (See Johnston, W. A., Brown, and Wallace.)

Browne, Vere B., Tarentum, Pa. Manufacture of steel sheets. No. 1,340,149; May 18; v. 274; p. 415.

Bruce, Charles R., Kansas City, Mo. Folding bed. No. 1,340,212; May 18; v. 274; p. 426.

Brulan, Daniel, Hammond, Ind. Vehicle-jack. No. 1,340,150; May 18; v. 274; p. 415.

Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)

Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Cost-keeping machine. No. 1,340,435; May 18; v. 274; p. 469.

Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,340,821; May 18; v. 274; p. 541.

Buck, Alonzo M., Elizabeth, N. J. Registering mechanism for vehicles or tractors. No. 1,340,324; May 18; v. 274; p. 447.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckle, John V., assignor of one-half to E. R. Dustin, Salt Lake City, Utah. Drink-mixer. No. 1,340,849; May 18; v. 274; p. 546.

Buffalo Scale Company. (See Boyd, William W., assignor.)

Bump, Edward D., assignor to The Bettcher Stamping and Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,340,151; May 18; v. 274; p. 415.

Burnett, Ira A., Chicago, Ill. Gold-saving receptacle. No. 1,340,213; May 18; v. 274; p. 426.

Burrows, Charles W., Washington, D. C. Electromagnetic device. No. 1,340,698; May 18; v. 274; p. 518.

Bushell, Ernest E., and M. E. Conkling, Lawton, Okla. Dispensing-machine. No. 1,340,822; May 18; v. 274; p. 541.

Butler, Leonard F. G., assignor of one-third to A. H. R. Fedden and one-third to Cosmos Engineering Company Limited, Bristol, England. Balancing engines. No. 1,340,823; May 18; v. 274; p. 541.

Butters, William H., Calgary, Alberta, Canada. Automobile-jack. No. 1,340,749; May 18; v. 274; p. 527.

Cadman, Addi B., Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill. Vehicle-coupling. No. 1,340,521; May 18; v. 274; p. 484.

California Burdett Oxygen Company. (See Coberly, Clarence J., assignor.)

Campbell, Roy L., assignor of one-half to J. W. Cummings, Altonpark, Tenn. Stop mechanism. No. 1,340,152; May 18; v. 274; p. 415.

Can Conservation Company. (See Rude, James M., assignor.)

Capehart, Newton P., Crystal River, Fla. Trap. No. 1,340,372; May 18; v. 274; p. 456.

Capman, Carl E., assignor to J. Saltzman, Chicago, Ill. Ironing-machine. No. 1,340,522; May 18; v. 274; p. 484.

Cardwell, Addison A., New York, N. Y., assignor to Pratt & Cady Company, Incorporated, Hartford, Conn. Heater. No. 1,340,153; May 18; v. 274; p. 416.

Carlin, Alfred J., St. Paul, Minn. Non-refillable bottle. No. 1,340,373; May 18; v. 274; p. 456.

Carns, Edmund B., Detroit, Mich. Aircraft. No. 1,340,154; May 18; v. 274; p. 416.

Carter, Daniel. (See Roach, P. J., and Carter.)

Cashman, Clarence G., assignor to Cashman Tool Company, Waynesboro, Pa. Detachable-tooth cutter. No. 1,340,474; May 18; v. 274; p. 475.

Cashman Tool Company. (See Cashman, Clarence G., assignor.)

Cassea, Erwin, Gloversville, N. Y. Floating-weight sound-box. No. 1,340,436; May 18; v. 274; p. 469.

Caulkins, John A., Hartford, Conn. Landing-stage for aeroplanes. No. 1,340,325; May 18; v. 274; p. 447.

Caukan, Joseph L., Mammoth, Pa. Automobile-lock. No. 1,340,326; May 18; v. 274; p. 447.

Champion Ignition Company. (See Schmidt, Albert, assignor.)

Chapman, Charles H., assignor to General Abrasive Company, Inc., Niagara Falls, N. Y. Controlling the thickness of walls in an electric furnace. No. 1,340,155; May 18; v. 274; p. 416.

Chapman, Elsworth E., Tacoma, Wash. Car-mover. No. 1,340,523; May 18; v. 274; p. 484.

Chapman Valve Manufacturing Company. (See Wittstein, Herman L., assignor.)

Chase Adding Machine Corporation. (See Chase, George C., assignor.)

Chase, George C., East Orange, assignor to Chase Adding Machine Corporation, Orange, N. J., Adding-machine. No. 1,340,374; May 18; v. 274; p. 457.

Chemical Foundation, Inc., The. (See Baum, Erich, assignor.)

Chiarelli, Anthony, New York, N. Y. Aeroplane-stabilizer. No. 1,340,214; May 18; v. 274; p. 426.

Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)

Christensen, Rasmus P., assignor of one-half to C. O. Johnson, Buffalo, N. Y. Record-repeating device for sound-reproducing instruments. No. 1,340,524; May 18; v. 274; p. 485.

Christensen, Rasmus P., assignor of one-half to C. O. Johnson, Buffalo, N. Y. Record-repeating device for sound-reproducing machines. No. 1,340,525; May 18; v. 274; p. 485.

Clamert Manufacturing Company, The. (See Emmert, George W., assignor.)

Clark, Claiborn, Los Angeles, Calif. Railway-crossing. No. 1,340,750; May 18; v. 274; p. 527.

Clark, Earl W., Sharon, and F. C. Clarke, near Sharon, Pa. Slagging-machine for furnaces. No. 1,340,156; May 18; v. 274; p. 416.

Clarke, Frank C. (See Clark, E. W., and Clarke.)

Clarke, Ralph S., Walpole, Mass., assignor to Bird Machine Company. Strainer. No. 1,340,599; May 18; v. 274; p. 499.

Cleveland, Arthur, Augusta, Ark. Combination umbrella and cane. No. 1,340,375; May 18; v. 274; p. 457.

Coale, George O. G., trustee. See Arno, Oliver H., assignor.)

Coberly, Clarence J., Los Angeles, Calif., assignor to California Burdett Oxygen Company. Oxyhydrogen cutting-torch. No. 1,340,699; May 18; v. 274; p. 518.

Colbert, James A., Delphos, Ohio. Hone-holder. No. 1,340,751; May 18; v. 274; p. 528.

Cole, Albert L., Auburndale, Mass. Fire-extinguisher. No. 1,340,376; May 18; v. 274; p. 457.

Collar, Wells N., Detroit, Mich. Upholstery-fastening means. No. 1,340,475; May 18; v. 274; p. 475.

Combo Manufacturing Co. (See Tiffin, Vandevere, assignor.)

Conkling, Marion E. (See Bushell, E. E., and Conkling.)

Conner, Thomas R., Sylvan, Pa. Soap-dish. No. 1,340,327; May 18; v. 274; p. 447.

Cooling, Arthur B., assignor to Superior Machine Company, Sterling, Ill. Driving mechanism for washing-machines. No. 1,340,328; May 18; v. 274; p. 447.

Cope, Frank T. (See Baily, T. F., and Cope.)

Corbett, Jay R. (See Settle, William L., assignor.)

Cordery, Charles. (See Cordery, William and C.)

Cordery, William and C., Toledo, Ohio. Wall-plug. No. 1,340,752; May 18; v. 274; p. 528.

Cosmos Engineering Company, *et al.* (See Butler, Leonard F. G., assignor.)

Cott, Charles M., Richmond, Va. Household safety-deposit box. No. 1,340,377; May 18; v. 274; p. 457.

Cotton, Walter H., Chicago, Ill. Spark-plug. No. 1,340,526; May 18; v. 274; p. 485.

Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)

Covey, Frank E., San Francisco, assignor of one-fourth to H. L. Covey, Oakland, Calif. Combination reciprocal and turbine internal-combustion engine. No. 1,340,527; May 18; v. 274; p. 485.

Covey, Howard L. (See Covey, Frank E., assignor.)

Coxe Travelling Grate Company. (See Lloyd, William, assignor.)

Crabill, Frank M., San Francisco, Calif. Seat-support. No. 1,340,753; May 18; v. 274; p. 528.

Craig, Angus G., *et al.* (See Dobbins, Michael G., assignor.)

Crandon, Joseph B., assignor to Crandon Manufacturing Company, Portland, Me. Regulating the acidity of sulfite liquor. No. 1,340,649; May 18; v. 274; p. 509.

Crandon Manufacturing Company. (See Crandon, Joseph B., assignor.)

Crane, William M., Company. (See O'Dowd, Henry W., assignor.)

Crozier, Alfred O., New York, N. Y. Apparatus for making hollow concrete bricks and other articles. No. 1,340,824; May 18; v. 274; p. 541.

Culver, Lewis O., and J. B. Wills, West Pittston, Pa.; said Wills assignor to said Culver. Truck. No. 1,340,378; May 18; v. 274; p. 457.

Cummings, J. W. (See Campbell, Roy L., assignor.)

Curry, William. (See Seidenburg, Charles L., assignor.)

Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)

Cypert, Joseph A., Kansas City, Mo. Comb. No. 1,340,379; May 18; v. 274; p. 457.

Dahl, Emil, Minneapolis, Minn. Brace for correcting foot-angles. No. 1,340,700; May 18; v. 274; p. 519.

Dallard, Lucien H., New York, N. Y. Vise. No. 1,340,477; May 18; v. 274; p. 476.

Dalman, John W., Chicago, Ill. Producing yokes for draft-rigging. No. 1,340,528; May 18; v. 274; p. 485.

Danner, Emil C., Westmont borough, Pa. Track-fastening and making same. No. 1,340,478; May 18; v. 274; p. 476.

D'Aquin, Richard J., New Orleans, La. Pad for umbrella-tips. No. 1,340,476; May 18; v. 274; p. 476.

Darrin, Marc, Wilkinsburg, assignor to The Koppers Company, Pittsburgh, Pa. Turpentine substitute. No. 1,340,600; May 18; v. 274; p. 500.

Davis, H. D., Manufacturing Company, The. (See Davis, Harry G., assignor.)

Davis, Harry G., assignor to The H. D. Davis Manufacturing Company, Philadelphia, Pa. Printing and inking device. No. 1,340,380; May 18; v. 274; p. 458.

Davison, Charles W., assignor to William T. Stead Memorial Center, Chicago, Ill. Automatograph. No. 1,340,529; May 18; v. 274; p. 486.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,340,215; May 18; v. 274; p. 427.

Dawson, James C., Webster Groves, Mo. Ledger. No. 1,340,157; May 18; v. 274; p. 416.

Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,340,701; May 18; v. 274; p. 519.

Dean, John, Racine, Wis. Tinning or soldering aluminum. No. 1,340,264; May 18; v. 274; p. 435.

Dean, Vernie, Detroit, Mich. Hospital or sleeping garment. No. 1,340,381; May 18; v. 274; p. 458.

Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and making same. No. 1,340,702; May 18; v. 274; p. 519.

Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and method of and apparatus for making same. No. 1,340,703; May 18; v. 274; p. 519.

Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and making same. No. 1,340,704; May 18; v. 274; p. 519.

Deering, Julius H., Brainerd, Minn. Attachment for automobile-seats. No. 1,340,754; May 18; v. 274; p. 528.

Deeter, George C., Mechanicsburg, Pa. Metal alloy. No. 1,340,437; May 18; v. 274; p. 469.

De Lander, August J., Spokane, Wash. Nail-driving implement. No. 1,340,705; May 18; v. 274; p. 519.

Delavan, Sophia E., Chicago, Ill., assignor to El Dorado Jones, New York, N. Y. Exhaust-muffler. No. 1,340,158; May 18; v. 274; p. 417.

Demmler, Max A. (See Markmann, D. H., and Demmler.)

Dennert, Edward C., Detroit, Mich. Radiator. No. 1,340,382; May 18; v. 274; p. 458.

Denning, Joseph M., Denver, Colo. Fence-machine. No. 1,340,530; May 18; v. 274; p. 486.

Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)

Deranek, Joseph P., East St. Louis, Ill. Piston packing-ring. No. 1,340,650; May 18; v. 274; p. 509.

Derr, William R., assignor of one-half to W. J. Lillie, New York, N. Y. Locking clothespin. No. 1,340,159; May 18; v. 274; p. 417.

Derringer, Stephen, Camden, N. J., assignor to Dietz Machine Works, Philadelphia, Pa. Tube-making machine. No. 1,340,706; May 18; v. 274; p. 519.

Desbane, Albert W., Cosmopolis, Wash. Tie-holder. No. 1,340,755; May 18; v. 274; p. 528.

De Witt La France Co. (See La France, D. J., and De Witt, assignors.)

De Witt, William P. (See La France, D. J., and De Witt.)

Dicker, George C. (See Serwe, Philip L., assignor.)

Diepenbrock, Joseph F., Chicago, Ill. System of shop control. No. 1,340,216; May 18; v. 274; p. 427.

Dietrich, Richard R., Baltimore, Md. Internal-explosive engine. No. 1,340,651; May 18; v. 274; p. 509.

Dietz Machine Works. (See Derringer, Stephen, assignor.)

Dilweg, Lloyd W., Milwaukee, Wis. Automobile-bumper. No. 1,340,867; May 18; v. 274; p. 549.

Dinsmoor, Winfield L., Oakland, Calif. Valve-grinder. No. 1,340,756; May 18; v. 274; p. 529.

Dinsmoor, Winfield L., San Francisco, Calif. Card-file. No. 1,340,757; May 18; v. 274; p. 529.

Dobbins, Michael G., Philadelphia, assignor of one-third to F. H. Shaw, Norristown, and one-third to A. G. Craig, Philadelphia, Pa. Soap-bubble device. No. 1,340,758; May 18; v. 274; p. 529.

Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Apparatus for burning fuel. No. 1,340,383; May 18; v. 274; p. 458.

Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)

Dodge Brothers. (See Duncan, James N., assignor.)

Doman, Herman C., Oshkosh, Wis., assignor, by mesne assignments to F. Novotny and J. Kastohryz. Driving mechanism for washing-machines. No. 1,340,329; May 18; v. 274; p. 448.

Downing, John W., Rockford, Ill. Card-index system. No. 1,340,384; May 18; v. 274; p. 458.

Dows, Chester L. (See Blair, F. P., Dows, and Merrill.)

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Duff, Michael J., assignor to The Moo-V Doll Manufacturing Company, Bridgeport, Conn. Doll. No. 1,340,160; May 18; v. 274; p. 417.

Duncan, George S., Jeffersonville, Ind. Front-wheel-drive mechanism. No. 1,340,759; May 18; v. 274; p. 529.

Duncan, James N., assignor to Dodge Brothers, Detroit, Mich. Automobile-support. No. 1,340,438; May 18; v. 274; p. 469.

Duncan, Levi H., Ben Avon, Pa. Valve-chest. No. 1,340,652; May 18; v. 274; p. 509.
Dunham Company, The. (See Griswold, R. H., and Hammond, assignors.)
Dustin, Edgar R. (See Buckle, John V., assignor.)
Eaglesfield, Robert D. (See Gathman, M. B., and Eaglesfield.)
Early, Chas. W. (See Barnes, Benie A., assignor.)
Eaton, Joseph E., San Francisco, Calif. Airplane. No. 1,340,707; May 18; v. 274; p. 520.
Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 1,340,217; May 18; v. 274; p. 427.
Edmonds, Cleland J. (See Jacoby, S. E., and Edmonds.)
Edmondson, Warren L., Washington, D. C. Renewable cutting-tooth point. No. 1,340,385; May 18; v. 274; p. 459.
Edmonston, William L. (See Schoolfield, Lucille D., assignor.)
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Ehrig, George B., Washington, D. C. Rotary toothbrush. No. 1,340,760; May 18; v. 274; p. 529.
Electric Controller & Manufacturing Company, The. (See Wright, Reuben I., assignor.) (Reissue.)
Electric Furnace Company, The. (See Baily, T. F., and Cope, assignors.)
Electric Phonograph Co. (See Shigley, Cyrus C., assignor.)
Elliott, Cloa A., Marion, Ind. Screen-door brace. No. 1,340,161; May 18; v. 274; p. 417.
Ellis, Frank A., Jr., Denver, Colo. Rope-measuring device. No. 1,340,218; May 18; v. 274; p. 427.
Emco Manufacturing Company. (See Taber, George H., assignor.)
Emerson, William F., Buffalo, N. Y. Coaster-brake. No. 1,340,386; May 18; v. 274; p. 459.
Emmert, George W., assignor to The Clamert Manufacturing Company, Pittsburgh, Pa. License-plate holder. No. 1,340,387; May 18; v. 274; p. 459.
Empson, Frederick J., Sydney, New South Wales, Australia. Talking-machine. No. 1,340,531; May 18; v. 274; p. 486.
Enck, Walter B. (See Rose, H. B., and Enck.)
Enos, Richard E., Baltimore, Md. Shuttle tension. No. 1,340,330; May 18; v. 274; p. 448.
Erwin, James B. and O. R., Milwaukee, Wis. Apparatus for generating foam for extinguishing fires. No. 1,340,601; May 18; v. 274; p. 500.
Erwin, Orlando R. (See Erwin, James B. and O. R.)
Evans, George S., Corryong, near Towong, Victoria, Australia. Nut-locking device. No. 1,340,602; May 18; v. 274; p. 500.
Evaporating and Drying Machinery Company. (See Miller, John C., assignor.)
Evers, William H. (See Pease, W. E., and Suloff, assignors.)
F. A. B. Manufacturing Co. (See Freitag, K. J. W., and Ainsworth, assignors.)
Faehndrich, William, New York, N. Y. Cheese-cutting machine. No. 1,340,479; May 18; v. 274; p. 476.
Faust, Samuel D., Pittsburgh, Pa., assignor to International Gasolene Process Corporation. Apparatus for the distillation of oil. No. 1,340,532; May 18; v. 274; p. 486.
Fedden, Albert H. R., *et al.* (See Butler, Leonard F. G., assignor.)
Feuser, Conrad, Bloomfield, N. J. Radiator air-valve. No. 1,340,439; May 18; v. 274; p. 469.
Fischer, Howard L., assignor, by mesne assignments, of one-half to F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,340,331; May 18; v. 274; p. 448.
Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,340,603; May 18; v. 274; p. 500.
Fiset, Antoine, Quebec, Quebec, Canada. Hay-press. No. 1,340,388; May 18; v. 274; p. 459.
Fisher, Carl, Bridgeport, Conn. Combined safety-pin and clasp. No. 1,340,533; May 18; v. 274; p. 486.
Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
Fitzpatrick, James R., Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Frost-casing. No. 1,340,332; May 18; v. 274; p. 448.
Fix, Albert P., Detroit, Mich. Combination end-gate and step for trailers. No. 1,340,761; May 18; v. 274; p. 529.
Fjellanger, Mikal, Hvalstad, near Christiania, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Fertilizer and manufacture of same. No. 1,340,708; May 18; v. 274; p. 520.
Flagstad, Cornell, assignor of forty-five per cent. to H. Thorsgard and K. Thorsgard and ten per cent. to A. Markoe, Minneapolis, Minn. Draft-creating device. No. 1,340,865; May 18; v. 274; p. 549.
Flegal, Forrest G., assignor to The Savage Tire Company, San Diego, Calif. Means for treating vehicle-tires during vulcanizing. No. 1,340,440; May 18; v. 274; p. 469.
Flechter, L. V., & Company. (See Kline, James A., assignor.)
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Flintkote Company, The. (See Rahr, Chester E., assignor.)
Folk, Joseph, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,340,219; May 18; v. 274; p. 427.
Foss, Antonius, and B. F. Halvorsen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Metallurgical process. No. 1,340,480; May 18; v. 274; p. 477.
Foster, Henry J., and E. Gruenfeldt, assignors to Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal wheel. No. 1,340,220; May 18; v. 274; p. 428.
Fox, Ralph, Wooster, Ohio. Folding ironing-board. No. 1,340,265; May 18; v. 274; p. 436.
Foxboro Co., The. (See Bristol, Edgar H., assignor.)
France, George R., Waycross, Ga. Locomotive driving-gear. No. 1,340,762; May 18; v. 274; p. 530.
France, John A., Sault Ste. Marie, Mich. Hay-cocking machine. No. 1,340,763; May 18; v. 274; p. 530.
France, Merle C., Cleveland, Ohio. Safety control for power-presses and the like. No. 1,340,333; May 18; v. 274; p. 448.
Francis, Daniel H., Detroit, Mich. Valve construction. No. 1,340,481; May 18; v. 274; p. 477.
Frank, Henry. (See Yarnell, J. B., and Frank.)
Freitag, Knud, J. W. and H. D. Ainsworth, assignors to F. A. B. Manufacturing Co., San Francisco, Calif. Pump overflow-pan. No. 1,340,534; May 18; v. 274; p. 487.
Fry, H. C., Glass Company. (See Williams, Warren S., assignor.)
Fuhrmann, Warren. (See Soderstrom, O., and Fuhrmann.)
Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Multiple-ticket-issuing register. No. 1,340,221; May 18; v. 274; p. 428.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Means for attaching handles to valve-stems. No. 1,340,604; May 18; v. 274; p. 500.
Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Toe-softener. No. 1,340,825; May 18; v. 274; p. 541.
Gaillard, Ella N., New York, N. Y. Hook and eye. No. 1,340,334; May 18; v. 274; p. 449.
Gardner, William Broomhill, Glasgow, Scotland. Sheet-metal boat or other vessel. No. 1,340,441; May 18; v. 274; p. 470.
Garcin, Edward H., New York, N. Y. Treating asbestos. No. 1,340,535; May 18; v. 274; p. 487.
Gathman, Monte B., Shelbyville, and R. D. Eaglesfield, said Gathman assignor to A. Vonnegut, Indianapolis, Ind. Spindle adjustment for motor-driven molders. No. 1,340,709; May 18; v. 274; p. 520.
Gathmann, Emil, Baltimore, Md. Detonator for high-explosive shells. No. 1,340,536; May 18; v. 274; p. 487.
Gazzi, Peter, Chicago Heights, Ill. Latch. No. 1,340,605; May 18; v. 274; p. 501.
Geigy, J. R., S. A. (See Fischer, Max, assignor.)
General Abrasive Company. (See Chapman, Charles H., assignor.)
General Chain Company. (See Weinacker, Hermann, assignor.)
Gibson, Freeman L., Savannah, Ga. Apparatus and process for the continuous distillation of liquids. No. 1,340,653; May 18; v. 274; p. 510.
Gibson, William E. F., and L. M. James, Port Coquitlam, British Columbia, Canada. Automobile-signal. No. 1,340,537; May 18; v. 274; p. 487.
Giglio, John, New York, N. Y. Piano-pedal. No. 1,340,162; May 18; v. 274; p. 417.
Gill, George W., Battle Creek, Mich. Car-coupling. No. 1,340,538; May 18; v. 274; p. 488.
Gilmore, Willis B., Idaho Springs, Colo. Animal-trap. No. 1,340,442; May 18; v. 274; p. 470.
Gilson, Bert D., Chicago, Ill. Motor-pump attachment. No. 1,340,389; May 18; v. 274; p. 459.
Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 1,340,443; May 18; v. 274; p. 470.
Glynn, Stephen A., Antigo, Wis. Button. No. 1,340,390; May 18; v. 274; p. 460.
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,340,163; May 18; v. 274; p. 417.
Golden, Joseph A., New York, N. Y. Motion-picture camera. No. 1,340,539; May 18; v. 274; p. 478.
Golloher, Charles H., Bellville, Tex. Discharge device for cotton-seed unloaders. No. 1,340,164; May 18; v. 274; p. 418.
Goodlett, Edgar N., Chicago, Ill., assignor to Monolithic Machine Company. Vibrator. No. 1,340,860; May 18; v. 274; p. 548.
Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain. No. 1,340,765; May 18; v. 274; p. 530.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug. No. 1,340,856; May 18; v. 274; p. 547.
Goss Printing Press Company. (See Walser, Joseph J., assignor.)
Graamans, Christiaan A. R., assignor to Syndicaat Graamans Patent, Rotterdam, Netherlands. Galvanic cell. No. 1,340,222; May 18; v. 274; p. 428.
Grabowski, John, Baltimore, Md. Horseshoe. No. 1,340,764; May 18; v. 274; p. 530.

Grace, John F., Kearney, N. J., assignor to Worthington Pump and Machinery Corporation. Condenser system and vacuum-pump. No. 1,340,165; May 18; v. 274; p. 418.
Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Making spoke-nipples. No. 1,340,166; May 18; v. 274; p. 418.
Graham, Wallace A., Gore, New Zealand. Friction braking means for cinematograph-film spools. No. 1,340,710; May 18; v. 274; p. 520.
Grasser, Joseph, Netstal, Switzerland. Apparatus for steaming fabrics. No. 1,340,482; May 18; v. 274; p. 477.
Green, George L. (See Morley, H. J., and Green.)
Greenawalt, William E., Denver, Colo. Electrolytic process. No. 1,340,826; May 18; v. 274; p. 542.
Greenleaf, George S., Chicago, Ill. Bed-bottom structure. No. 1,340,540; May 18; v. 274; p. 488.
Greenwald, Jacob, New York, N. Y. Combination hanger and frame-protector. No. 1,340,711; May 18; v. 274; p. 520.
Griswold, Ray H., and A. W. Hammond, Cleveland, assignors to The Dunham Company, Berea, Ohio. Apparatus for seeding. No. 1,340,654; May 18; v. 274; p. 510.
Groenewold, Dick, Kiel, Okla. Grain-elevator. No. 1,340,606; May 18; v. 274; p. 501.
Groff, Joseph G., Buffalo, N. Y. Holder for paper bags and similar articles. No. 1,340,335; May 18; v. 274; p. 449.
Gruenfeldt, Emil. (See Foster, H. J., and Gruenfeldt.)
Gudegast, Christian H., Richmond Hill, N. Y. Phonograph-cabinet. No. 1,340,766; May 18; v. 274; p. 530.
Guillemet, François L., San Francisco, Calif. Aeroplane-undercarriage. No. 1,340,483; May 18; v. 274; p. 477.
Haglund, George W. (See Adix, A. W., and Haglund.)
Haight, Harry W., Princeton, N. J. Printed book. No. 1,340,713; May 18; v. 274; p. 521.
Halvorsen, Birger F. (See Foss, A., and Halvorsen.)
Hamachek, Frank, Kewaunee, Wis. Pea-huller. No. 1,340,607; May 18; v. 274; p. 501.
Hammond, Alfred W. (See Griswold, R. H., and Hammond.)
Hampton Electric and Machine Company. (See Welch, Lon L., assignor.)
Hankulich, Michael, Stockdale, Pa. Milk-boiler. No. 1,340,336; May 18; v. 274; p. 449.
Hannon, George M., Belton, Tex. Fly-killing device. No. 1,340,767; May 18; v. 274; p. 530.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Thread-guiding device. No. 1,340,541; May 18; v. 274; p. 488.
Hare, Arthur J., Dunedin, New Zealand. Winding-reel. No. 1,340,712; May 18; v. 274; p. 520.
Harris, Grover D., Menasha, Wis., assignor to U. S. Tractor & Machinery Company. Centrifugally-governed clutch-pulley. (Reissue.) No. 14,857; May 18; v. 274; p. 549.
Harvey, George T., Halstead, Kans. Repair-plug for pipes. No. 1,340,167; May 18; v. 274; p. 418.
Haskelite Manufacturing Corporation. (See Fitzpatrick, James R., assignor.)
Hawkes, Frederic W., New York, N. Y. Implement-holder. No. 1,340,224; May 18; v. 274; p. 428.
Hayes, Benjamin P., and F. D. Laughlin, assignors to Automatic Bookkeeping Register Company, Kansas City, Mo. Accounting machine. No. 1,340,827; May 18; v. 274; p. 542.
Hayes, Walter H., London, England. Vaporizer for combustion-engines. No. 1,340,444; May 18; v. 274; p. 470.
Heap, Edgar, Detroit, Mich. Irrigator shut-off; No. 1,340,828; May 18; v. 274; p. 542.
Heath, Frank C., Detroit, Mich., assignor, by mesne assignments, to L. Olsen, Indianapolis, Ind. Process and apparatus for lining a bearing-shell. No. 1,340,337; May 18; v. 274; p. 449.
Hecker, John H., New Orleans, La. Chain-fastener. No. 1,340,484; May 18; v. 274; p. 477.
Heilmann, Lui F., and W. W. Baxter, assignors to Air Brake Safety Appliance Co., Indianapolis, Ind. Automatic railway safety control. No. 1,340,861; May 18; v. 274; p. 548.
Helm, William A., Traverse City, Mich. Tire-protector. No. 1,340,608; May 18; v. 274; p. 501.
Henderson, Christie H., Oakland, Calif. Sanitation appliance. No. 1,340,338; May 18; v. 274; p. 449.
Henderson, Thomas E., Fort Worth, Tex. Cold process of repairing radiators of internal-combustion engines. No. 1,340,655; May 18; v. 274; p. 510.
Henry, Ernest J., Cedar Rapids, Iowa. Window-bed. No. 1,340,609; May 18; v. 274; p. 501.
Herr, Abram B., assignor of one-third to E. M. Royer and one-third to J. H. Moseman, Lancaster, Pa. Can-washing machine. No. 1,340,768; May 18; v. 274; p. 531.
Herrman, George E. (See Herrman, John L. and G. E.)
Herrman, John L. and G. E., Mica, Wash. Bag-holder. No. 1,340,714; May 18; v. 274; p. 521.
Heyl & Patterson, Incorporated. (See Brown, Raymond E., assignor.)
Hildebrand, Harry D., Pittsburgh, Pa. Heat-exchanger. No. 1,340,266; May 18; v. 274; p. 436.
Hildebrand, Harry D., Mount Vernon, Ohio. Exchanging heat. No. 1,340,267; May 18; v. 274; p. 436.
Hill, Arthur W., Belmond, Iowa. Electric-conductor take-up; No. 1,340,268; May 18; v. 274; p. 436.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,340,715; May 18; v. 274; p. 521.
Hill, Joseph H., Wilmington, Del. Tire. No. 1,340,339. May 18; v. 274; p. 450.
Hill, Reginald J. H., assignor of one-half to M. J. Railing, London, England. Electric cigar-lighter, pipe-lighter, and the like. No. 1,340,716; May 18; v. 274; p. 521.
Hiller, Charles, assignor of one-half to S. G. Stahlhuth, St. Louis, Mo. Hot-air furnace, stove, and the like. No. 1,340,340; May 18; v. 274; p. 450.
Hills, Ray D., Blanchard, Iowa. Flexible adjustable magneto-coupling. No. 1,340,610; May 18; v. 274; p. 502.
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,542; May 18; v. 274; p. 488.
Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Sanitary fixture. No. 1,340,611; May 18; v. 274; p. 502.
Hitchcock, Halbert K., Pittsburgh, Pa. Sole. No. 1,340,341; May 18; v. 274; p. 450.
Hoesing, Louis, Crofton, Nebr. Attachment for hay-sweeps. No. 1,340,391; May 18; v. 274; p. 460.
Hofmann, Alfred, Zurich, Switzerland. Washing-machine. No. 1,340,543; May 18; v. 274; p. 488.
Hogg, Arthur D., Grand Forks, N. D. Spare wheel for vehicles. No. 1,340,485; May 18; v. 274; p. 478.
Holbrook, Harry R., Attleboro, Mass. Key and container. No. 1,340,850; May 18; v. 274; p. 546.
Holderle, Carl L. and F. W., Rochester, N. Y. Faucet for dispensing high-pressure liquids. No. 1,340,769; May 18; v. 274; p. 531.
Holderle, Frederick W. (See Holderle, Carl L. and F. W.)
Holle, Joseph, Newark, N. J. Cam and push-rod machine. No. 1,340,717; May 18; v. 274; p. 521.
Holze, Homer M., Cleveland, Ohio. Internal-combustion motor. No. 1,340,223; May 18; v. 274; p. 428.
Hood, Ernest K., deceased, Indianapolis, Ind.; H. H. Hood, administratrix. Operating mechanism for slicing-machines. No. 1,340,829; May 18; v. 274; p. 542.
Hood, Harriet H., administratrix. (See Hood, Ernest K.)
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Hooven Radiator Company. (See Spery, Charles F., assignor.)
Hopkins, Nevil M., Washington, D. C. Apparatus for treating footwear. No. 1,340,544; May 18; v. 274; p. 489.
Horgan, Stephen H., Orange, N. J. Art and apparatus for making printing-surfaces. No. 1,340,342; May 18; v. 274; p. 450.
Hornung, Anton N., Los Angeles, Calif. Cold-storage-door adjustable hinge. No. 1,340,862; May 18; v. 274; p. 548.
Horton, Charles S., Huntley, Mont. Manifold-heater. No. 1,340,770; May 18; v. 274; p. 531.
Hout, Frank W. (See Watson, William F., assignor.)
Howard, Charles B., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting sheet material. No. 1,340,225; May 18; v. 274; p. 428.
Hudson, Frank W., assignor to H. E. Johnstone, Bakersfield, Calif. Game. No. 1,340,612; May 18; v. 274; p. 502.
Huelsdonk, William A., San Francisco, Calif. Combination excavator, crusher, and dredger. No. 1,340,445; May 18; v. 274; p. 470.
Hughes Granite Company, The. (See Hughes, W. E., and King, assignors.)
Hughes Tool Company. (See Simmons, John T., assignor.)
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Wall construction for mausoleums. No. 1,340,656; May 18; v. 274; p. 510.
Huntoon, Charles F., Chicago, Ill. Brake-beam strut. No. 1,340,168; May 18; v. 274; p. 418.
Hutton, Robert G. (See Wilson, D. H., and Hutton.)
Hydraulic Pressed Steel Company. (See Foster, H. J., and Gruenfeld, assignors.)
Igou, Durward B., Lakewood, Ohio. Gas-burner. No. 1,340,226; May 18; v. 274; p. 429.
Igou, Durward B., Lakewood, Ohio. Multiple diestock. No. 1,340,227; May 18; v. 274; p. 429.
Imans, Pierre, Paris, France. Arms for exhibition lay figures. No. 1,340,446; May 18; v. 274; p. 470.
Independent Trunk and Bag Company. (See Plummer, Henry L., assignor.)
Ingham, Clarence H., and W. H. Wilcox, Cooper, Iowa. Reversible plow-shovel. No. 1,340,392; May 18; v. 274; p. 460.
Ingoldby, Maurice K., assignor to Vickers Limited, Westminster, London, England. Power-transmission device. No. 1,340,447; May 18; v. 274; p. 471.
International Farm Implement Company. (See Pile, John R., assignor.)
International Gasolene Process Corporation. (See Faust, Samuel D., assignor.)
International Harvester Company. (See Rice, George L., assignor.)
International Manufacturing Company. (See Thompson, R. A., and Morris, assignors.)
International Time Recording Company, The. (See Bryce, James W., assignor.)

Ivey, Percy D., Guelph, and A. J. Salisbury, Toronto, Ontario, Canada. Storage battery. No. 1,340,269; May 18; v. 274; p. 436.
Jackson, Alfred A., Denver, Colo. Means for introducing auxillary air. No. 1,340,228; May 18; v. 274; p. 429.
Jackson, Robert E., and B. O. Yearwood, Princeton, W. Va. Transmission-gearing. No. 1,340,486; May 18; v. 274; p. 478.
Jacobus, Edward, Montclair, N. J. Lightning-arrester. No. 1,340,657; May 18; v. 274; p. 510.
Jacoby, Stanley E., and C. J. Edmonds, Brimfield, Ind. Headlight control. No. 1,340,771; May 18; v. 274; p. 531.
Jahoda, Emil, New York, N. Y. Safety electric welding-torch. No. 1,340,270; May 18; v. 274; p. 436.
James, Ida M. (See Gibson, W. E. F., and James.)
Jaques, Rufus S., Spokane, Wash. Automobile-lock. No. 1,340,393; May 18; v. 274; p. 460.
Jeffries, Carl F., Detroit, Mich. Internal-combustion engine. No. 1,340,229; May 18; 274; p. 429.
Jenkins, Wilton F., Richmond, Va. Temperature-indicator for automobile-radiators. No. 1,340,830; May 18; v. 274; p. 542.
Jennings, William, Camp Nelson, and C. J. Armstrong, Louisville, Ky. Surgical-bandage heater and wringer. No. 1,340,772; May 18; v. 274; p. 532.
Jensen, Peter W., Princeton, Minn. Halter. No. 1,340,271; May 18; v. 274; p. 437.
Jessen, James, assignor to The Line Drive Tractor, Inc., Milwaukee, Wis. Tractor. No. 1,340,169; May 18; v. 274; p. 418.
Jinkner, John F., Buffalo, N. Y. Detachable wire wheel. No. 1,340,773; May 18; v. 274; p. 532.
Johns, Thomas W., Brooklyn, N. Y. Casting mechanism for typographical machines. No. 1,340,613; May 18; v. 274; p. 502.
Johnson, Andrew J., Long Prairie, Minn. Silo-heater. No. 1,340,718; May 18; v. 274; p. 521.
Johnson Automobile Lock Company. (See Vodoz, Frederick W., assignor.)
Johnson, Clarence O. (See Christensen, Rasmus P., assignor.)
Johnson, Evans S., Eldorado, Okla. Spring-tire. No. 1,340,272; May 18; v. 274; p. 437.
Johnson, Fritz, Fountain, Colo. Radiator. No. 1,340,774; May 18; v. 274; p. 532.
Johnson, John L., Humble, Tex. Pump. No. 1,340,545; May 18; v. 274; p. 489.
Johnston, William A., and A. W. Browne, Prince Bay, N. Y., and F. L. Wallace, Philadelphia, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Anesthetic-administering apparatus. No. 1,340,448; May 18; v. 274; p. 471.
Johnstone, H. E. (See Hudson, Frank W., assignor.)
Jones, El Dorado. (See Delavan, Sophia E., assignor.)
Jones, George A., Baldwin, assignor to Ordnance Engineering Corporation, New York, N. Y. Adjustable liner for type-casting machines. No. 1,340,831; May 18; v. 274; p. 543.
Jones, Harry H., Boston, Mass. Combination electric switch. No. 1,340,230; May 18; v. 274; p. 429.
Jones, John G., Detroit, Mich. Electric-light bracket. No. 1,340,273; May 18; v. 274; p. 437.
Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)
Kastohryz, Joseph, *et al.* (See Doman, Herman C., assignor.)
Keeran, Charles R., Chicago, Ill. Forming two-piece caps for receptacles. No. 1,340,449; May 18; v. 274; p. 471.
Keeran, Charles R., Chicago, Ill. Bomb. No. 1,340,546; May 18; v. 274; p. 489.
Kellner, Franz, Barmen, Germany. Braiding or lacing machine. No. 7,340,487; May 18; v. 274; p. 478.
Kelly, John F., Elkins, W. Va. Shoe-dauber. No. 1,340,775; May 18; v. 274; p. 532.
Kelly, Orin, Columbus, Ohio. Automatic firing device. No. 1,340,274; May 18; v. 274; p. 437.
Kendall, William G., Newark, N. J. Rouge-powder measure. No. 1,340,275; May 18; v. 274; p. 437.
Kenney, Frank E., Portland, Oreg. Hydraulic donkey-engine. No. 1,340,547; May 18; v. 274; p. 489.
Kernston, Otto, Detroit, Mich. Commutator. No. 1,340,857; May 18; v. 274; p. 547.
Kicklighter, Charles H., Macon, Ga. Joining metals by electric welding. No. 1,340,170; May 18; v. 274; p. 419.
Kidwell, James A., Lakewood, Ohio. Check-cabinet. No. 1,340,231; May 18; v. 274; p. 430.
Kimmel, Roger Q. (See Procunier, Frank G., assignor.)
King, Charles H., Ithaca, N. Y. Valve. No. 1,340,719; May 18; v. 274; p. 522.
King, Gustave A., Chicago, Ill. Toy. No. 1,340,394; May 18; v. 274; p. 460.
King, James B. (See Hughes, W. E., and King.)
Kingsbury, Edward J. (See Kingsbury Harry T. and E. J.)
Kingsbury, Harry T. and E. J. Keene, N. H. Toy boat. No. 1,340,614; May 18; v. 274; p. 502.
Kleidman, Joseph, New York, N. Y. Aeroplane. No. 1,340,450; May 18; v. 274; p. 471.
Kline, James A., York, Pa., assignor, by mesne assignments, to I. Y. Flechter & Company. Carbureter. No. 1,340,720; May 18; v. 274; p. 522.
Knight, Harriet W., New York, N. Y. Ornamental telephone-concealing hood. No. 1,340,863; May 18; v. 274; p. 548.
Koch, Theodor, Newark, N. J., assignor to American Platinum Works. Alloy. No. 1,340,451; May 18; v. 274; p. 471.
Koehne, John B., New London, N. H. Appliance for men's trousers. No. 1,340,276; May 18; v. 274; p. 437.
Koppers Company, The. (See Darrin, Marc, assignor.)
Krause, William P., Chicago, Ill., assignor to Mumford Molding Machine Company. Molding-machine. No. 1,340,658; May 18; v. 274; p. 511.
Kristofek, Frank J. (See Fischer, Howard L., assignor.)
Kryder, Frank L., Akron, Ohio, and E. W. Snyder, Indianapolis, Ind. Apparatus for reclaiming rubber waste. No. 1,340,776; May 18; v. 274; p. 532.
Kryder, Frank L., Akron, Ohio. Reclaiming and regenerating rubber waste. No. 1,340,777; May 18; v. 274; p. 533.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,488; May 18; v. 274; p. 478.
La France, David J., and W. P. De Witt, Somerville, assignors to De Witt La France Co., Cambridge, Mass. Fountain-pen. No. 1,340,277; May 18; v. 274; p. 438.
Lamb, Morris C., London, England. Detanning chrome-leather. No. 1,340,721; May 18; v. 274; p. 522.
Landa, Louis F., assignor of one-fourth to W. F. Schmalkuche and one-fourth to W. F. Schmalkuche, Jr., Flushing, N. Y. Spark-plug. No. 1,340,232; May 18; v. 274; p. 430.
Landstra, Dirk S., South Orange, N. J. Molding plastic materials. No. 1,340,452; May 18; v. 274; p. 471.
Lane, Charles H., and J. H. Steele, Portland, Oreg. Nameplate. No. 1,340,778; May 18; v. 274; p. 533.
Lang, Herbert, Oakland, Calif. Manufacture of iron and steel. No. 1,340,548; May 18; v. 274; p. 489.
Lanning, John G., Detroit, Mich. Safety-valve. No. 1,340,832; May 18; v. 274; p. 543.
Laughlin, Frank D. (See Hayes, B. P., and Laughlin.)
Lavenberg, Perry C., South Bend, Ind., assignor to Wirebounds Patents Company, Chicago, Ill. Box. No. 1,340,489; May 18; v. 274; p. 478.
Lawa, Richard, New York, N. Y. Combination gas-range. No. 1,340,615; May 18; v. 274; p. 502.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,171; May 18; v. 274; p. 479.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,172; May 18; v. 274; p. 419.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,173; May 18; v. 274; p. 419.
Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)
Lee, William J., Eugene, Oreg. Flytrap. No. 1,340,779; May 18; v. 274; p. 533.
Leger, Oswald C., Los Angeles, Calif. Billiard-cue construction and attaching the cue-tip. No. 1,340,395; May 18; v. 274; p. 461.
Leon, Kalman, Washington, D. C. Fishhook. No. 1,340,780; May 18; v. 274; p. 533.
Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-registering device. No. 1,340,722; May 18; v. 274; p. 522.
Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-registering device. No. 1,340,723; May 18; v. 274; p. 522.
Lera, Peter, San Francisco, Calif. Rifle-grenade sight. No. 1,340,453; May 18; v. 274; p. 471.
Levy, William, Paterson, N. J. Railway-passenger-ticket holder. No. 1,340,724; May 18; v. 274; p. 523.
Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem draft-rigging. No. 1,340,490; May 18; v. 274; p. 478.
Lewitzky, Lottie, Philadelphia, Pa. Baking-pan. No. 1,340,659; May 18; v. 274; p. 511.
Lidberg, Tlodolf, Chicago, Ill. Holder and carrier for blood-pipettes. No. 1,340,660; May 18; v. 274; p. 511.
Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Hydropneumatic device. No. 1,340,233; May 18; v. 274; p. 430.
Lilley, Alfred L., West Hartford, Conn. Toy or game. No. 1,340,278; May 18; v. 274; p. 438.
Lillie, William J. (See Derr, William R., assignor.)
Lind, Sivert N., Streator, Ill. Line-lock. No. 1,340,851; May 18; v. 274; p. 546.
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Carriage-top. No. 1,340,279; May 18; v. 274; p. 438.
Lindbloom, Ralph, St. Paul, Minn. Power transmission. No. 1,340,833; May 18; v. 274; p. 543.
Line Drive Tractor, The. (See Jessen, James, assignor.)
Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Guide for calenders. No. 1,340,234; May 18; v. 274; p. 430.
Lloyd, William, Hazleton, asignor to Coxe Traveling Grate Company, Port Carbon, Pa. Furnace. No. 1,340,549; May 18; v. 274; p. 490.
Lloyd, William, Hazleton, Pa. Furnace. No. 1,340,725; May 18; v. 274; p. 523.
Lobl, Frederick, Boston, Mass. Disinfectant and odorizer. No. 1,340,661; May 18; v. 274; p. 511.

Lobl, Frederick, Middleboro, Mass. Inhaler. No. 1,340,662; May 18; v. 274; p. 511.
Lofstrand, Albin P., Edmonton, Alberta, Canada. Automatic grain-shocker. No. 1,340,781; May 18; v. 274; p. 533.
Loggie, William J., Frankfort, Ky., assignor to Union Special Machine Company, Chicago, Ill. Folder or seam-opener for sewing-machines. No. 1,340,782; May 18; v. 274; p. 533.
Lowe, David T., Ohlman, Ill. Churn. No. 1,340,491; May 18; v. 274; p. 479.
Loyster, James A., Cazenovia, N. Y. Closure for bottles and jars. No. 1,340,783; May 18; v. 274; p. 534.
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Die. No. 1,340,235; May 18; v. 274; p. 430.
Lundy, Joseph G., Evergreen, Ala. Garden plow or cultivator. No. 1,340,784; May 18; v. 274; p. 534.
Lynde, Frederick C., Manchester, England. Pad used on crutches, artificial limbs, and sticks. No. 1,340,616; May 18; v. 274; p. 503.
Lynde, Frederick C., Manchester, England. Pad used on crutches, artificial limbs, and sticks. No. 1,340,617; May 18; v. 274; p. 503.
McArdle, Fred W., Boston, Mass. Scale for weighing mail-matter. No. 1,340,280; May 18; v. 274; p. 438.
McCallum, Herbert A., Yonkers, N. Y. View-finder for cameras. No. 1,340,618; May 18; v. 274; p. 503.
McCallum, Herbert A., Yonkers, N. Y. View-finder for cameras. No. 1,340,619; May 18; v. 274; p. 503.
McClenahan, Walter, San Francisco, Calif. Rail. No. 1,340,454; May 18; v. 274; p. 472.
McGrory, Edward L. (See Wilcox, F. A., and McGrory.)
McIntyre, Patrick J., Auburn, R. I., assignor to United Wire and Supply Company. Priming device. No. 1,340,281; May 18; v. 274; p. 438.
McLean, Philip S., Bloomfield, N. J. Music-roll. No. 1,340,175; May 18; v. 274; p. 420.
McMullin, Joseph B., assignor to Western Manufacturing Co., Oskaloosa, Iowa. Tire-pump connection. No. 1,340,785; May 18; v. 274; p. 534.
MacGregor, John G., Pequannock, N. J. Grease-gun. No. 1,340,726; May 18; v. 274; p. 523.
MacGregor, Robert, Port Glasgow, Scotland. Telemotor. No. 1,340,727; May 18; v. 274; p. 523.
Maddox, Robert D., U. S. Army. Arm-abduction splint. No. 1,340,630; May 18; v. 274; p. 505.
Madigan, Thomas J., Brooklyn, assignor of one-fourth to J. O. Schwank, New York, N. Y. Battery hand-lamp. No. 1,340,550; May 18; v. 274; p. 490.
Madsen, Christen T., Oakland, Calif. Cork-extractor. No. 1,340,551; May 18; v. 274; p. 490.
Maire, Auguste, Argenteuil, France, assignor to Societe Lorraine des Anciennes Etablissements de Dietrich & Cie., de Luneville, Paris, France. Special design for ball-bearings and thrust-bearings. No. 1,340,663; May 18; v. 274; p. 512.
Manzie, Angelo W., Newport News, Va. Toy. No. 1,340,786; May 18; v. 274; p. 534.
Markmann, Daniel H., and M. A. Demmler, St. Louis, Mo. Velocipede-horse. No. 1,340,282; May 18; v. 274; p. 439.
Markoe, Arthur, *et al.* (See Flagstad, Cornell, assignor.)
Martin, Thomas N., Mountain Home, Ark. Adjustable thrust-bearing for crank-shafts. No. 1,340,396; May 18; v. 274; p. 461.
Mathias, Berton M., Minneapolis, Minn. Mud-lug. No. 1,340,834; May 18; v. 274; p. 543.
Mecky, A., Company. (See Papini, Antonio, assignor.)
Meier, Wilhelm H. (See Smithback, N., and Meier.)
Melanson, Philip P., Moncton, New Brunswick, Canada. Roof-bracket. No. 1,340,492; May 18; v. 274; p. 479.
Mercer Tire Company. (See Dech, Henry, assignor.)
Merrell, Irving S., Syracuse, N. Y. Communication-controlling device. No. 1,340,552; May 18; v. 274; p. 490.
Merrill, George S. (See Blair, F. P., Dows, and Merrill.)
Merritt, Robert W., New York, N. Y. Garter. No. 1,340,455; May 18; v. 274; p. 472.
Metzger, Sylvester G., Delphos, Ohio. Power device. No. 1,340,620; May 18; v. 274; p. 503.
Meyer, Philip, Newark, N. J. Pipe-testing and leak-finding device. No. 1,340,176; May 18; v. 274; p. 420.
Miers, Albert L., Indianapolis, Ind. Automobile-door bumper. No. 1,340,621; May 18; v. 274; p. 504.
Miles, Percival W., Wilkes-Barre, Pa. Sanding device. No. 1,340,728; May 18; v. 274; p. 523.
Miller, Charles F., Lancaster, Pa., assignor to M. Smithey, Lawrenceville, Va. Odometer. No. 1,340,493; May 18; v. 274; p. 479.
Miller, Emmett S., Chicago, Ill. Elevator-lock. No. 1,340,664; May 18; v. 274; p. 512.
Miller, Guy F., Traverse City, Mich. Fire-alarm switch. No. 1,340,729; May 18; v. 274; p. 523.
Miller, Jan, Brooklyn, N. Y. Trolley-harp. No. 1,340,456; May 18; v. 274; p. 472.
Miller, John C., Ludlow, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Pasteurizer. No. 1,340,177; May 18; v. 274; p. 420.
Miller, John S., Jr. (See Oliensis, G. L., and Miller.)
Miller, Thomas S., South Orange, N. J. Marine cableway. (Reissue.) No. 14,858; May 18; v. 274; p. 549.
Mills, Cecil J., Wanganarel, New Zealand. Fountain shoe-brush. No. 1,340,283; May 18; v. 274; p. 439.
Miner, William H. (See Lewis, Goodrich Q., assignor.)
Moehle, Walter, Brooklyn, N. Y. Hot-water or ice bag. No. 1,340,236; May 18; v. 274; p. 431.
Money, Chester E., Chicago, Ill. Cloth-winding machine. No. 1,340,178; May 18; v. 274; p. 420.
Monitor Controller Company of Baltimore. (See Whittingham, George H., assignor.)
Monolithic Machine Company. (See Goodlett, Edgar N., assignor.)
Moo-V Doll Manufacturing Company, The. (See Duff, Michael J., assignor.)
Moore, Thomas C., San Francisco, Calif. Rope and cable attachment. No. 1,340,730; May 18; v. 274; p. 524.
Moore, Thomas M., New York, N. Y. Bottle-stopper. No. 1,340,237; May 18; v. 274; p. 431.
Morgan, Edmund C., Chicago, Ill. Mining and loading machine. No. 1,340,731; May 18; v. 274; p. 524.
Morley, Harry J., and G. L. Green, Logan, Ohio. Rivet-head catcher. No. 1,340,787; May 18; v. 274; p. 534.
Morris, Lute P. (See Thompson, R. A., and Morris.)
Morrison, Egbert R., Cleveland, Ohio. Steam-boiler. (Reissue.) No. 14,859; May 18; v. 274; p. 550.
Morse, John B. (See Sherlock, C. B., and Morse.)
Moseman, John H., *et al.* (See Herr, Abram B., assignor.)
Motion Picture Apparatus Co. (See Pennypacker, Edward J., assignor.)
Mount, William D., Lynchburg, Va. Flaker. No. 1,340,732; May 18; v. 274; p. 524.
Multiple Storage Battery Company. (See Sturges, Norman D., assignor.)
Mumford Molding Machine Company. (See Krause, William P., assignor.)
Munn, William B., assignor of one-half to M. Scharff, Memphis, Tenn. Wrapping-machine. No. 1,340,665; May 18; v. 274; p. 512.
Murray, Peter W., Buffalo, N. Y. Clasp. No. 1,340,284; May 18; v. 274; p. 439.
Nagel, Carl E., St. Paul, Minn. Reinforced-concrete piling. No. 1,340,397; May 18; v. 274; p. 461.
Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft-arm for railway-cars. No. 1,340,285; May 18; v. 274; p. 439.
Nash, William A., Plainview, Tex. Device for extracting automobiles from mud, sand, or ditches. No. 1,340,238; May 18; v. 274; p. 431.
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
Neal, Joseph A., Mobile, Ala. Twin circular resawing machine. No. 1,340,286; May 18; v. 274; p. 439.
Nelson, Gilbert, St. Paul, Minn. Artificial limb. No. 1,340,239; May 18; v. 274; p. 431.
Newton, Edmund, Minneapolis, Minn. Apparatus for separating magnetic material. No. 1,340,457; May 18; v. 274; p. 472.
Nicholson, George F., and G. Whitestone, Seattle, Wash. Portable freight-stacking elevator. No. 1,340,458; May 18; v. 274; p. 472.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hoist control. No. 1,340,240; May 18; v. 274; p. 431.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Liquid rheostat. No. 1,340,241; May 18; v. 274; p. 432.
Nielsen, Aagot M., Boston, Mass. Laundry-tub. No. 1,340,852; May 18; v. 274; p. 546.
Nikander, August, Detroit, Mich. Wrench. No. 1,340,287; May 18; v. 274; p. 439.
Niles, Charles E., Fargo, N. D. Clothes-reel. No. 1,340,494; May 18; v. 274; p. 479.
Nissen, Eugene F., Alameda, Calif. Safety-container. No. 1,340,553; May 18; v. 274; p. 490.
Nissen, Eugene F., Alameda, Calif. Envelop. No. 1,340,554; May 18; v. 274; p. 491.
Nissen, Eugene F., Alameda, Calif. Safety-container. No. 1,340,555; May 18; v. 274; p. 491.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-wrench. No. 1,340,622; May 18; v. 274; p. 504.
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Fjellanger, Mikal, assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Foss, A., and Halvorsen, assignors.)
North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,340,288; May 18; v. 274; p. 440.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Norton Iron Works. (See Alexander, True, assignor.)
Novotny, Frank, *et al.* (See Doman, Herman C., assignor.)
Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Pouring-spout. No. 1,340,242; May 18; v. 274; p. 432.
Nussbaum, Louis, Albany, N. Y. Vehicle. No. 1,340,733; May 18; v. 274; p. 524.
O'Brien, Daniel D., Waukesha, Wis. Tire-protector. No. 1,340,179; May 18; v. 274; p. 420.
O'Brien, Edmund H., Kansas City, Mo. Door-lock. No. 1,340,398; May 18; v. 274; p. 461.
O'Brien, Joseph J., Springfield, Mass. Paper-clip. No. 1,340,180; May 18; v. 274; p. 420.
O'Brien, Vincent R., and W. N. Parks, St. Paul, Minn. Nipple-coupling for radiators and similar structures. No. 1,340,289; May 18; v. 274; p. 440.
O'Connell, Timothy, Brooklyn, N. Y. Producing carbon-hydrogen gas. No. 1,340,495; May 18; v. 274; p. 479.

O'Dowd, Henry W., Jersey City, N. J., assignor to W. M. Crane Company. Gas-stove. No. 1,340,666; May 18; v. 274; p. 512.
O'Hara, Daniel L., Greenland, Mich. Electric switch. No. 1,340,788; May 18; v. 274; p. 534.
Ohlson, Olof, West Newton, assignor to Waltham Watch Company, Waltham, Mass. Pressure-gage. No. 1,340,399; May 18; v. 274; p. 461.
Oium, George T., Minneapolis, Minn. Machine for making phonograph-needles. No. 1,340,400; May 18; v. 274; p. 461.
Oliensis, Gershon L., Philadelphia., Pa., and J. S. Miller, Jr., Rahway, N. J., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa. Fibered asphalt. No. 1,340,181; May 18; v. 274; p. 420.
Oliver, Charles E., assignor to Universal Safety Tread Company, Boston, Mass. Stair-tread. No. 1,340,243; May 18; v. 274; p. 432.
Ollivier, Jocelyn E., Paris, France. Motor-vehicle for soft ground. No. 1,340,789; May 18; v. 274; p. 535.
Olney, Joseph W., Latah, Wash. Hatchet. No. 1,340,401; May 18; v. 274; p. 462.
Olsen, Lawrence. (See Heath, Frank C., assignor.)
O'Neil, Colin C., Sarnia, Ontario, Canada. Boiler blow-off valve. No. 1,340,790; May 18; v. 274; p. 535.
Ordnance Engineering Corporation. (See Jones, George A., assignor.)
Orlopp, Platt M., Indianapolis, Ind. Auxiliary air-intake for internal-combustion engines. No. 1,340,734; May 18; v. 274; p. 534.
Osborne, Ernest J., assignor of one-half to A. T. Bradlee, Brookline, Mass. Demountable rim. No. 1,340,244; May 18; v. 274; p. 432.
Otis, Spencer, Chicago, Ill. Railway-car-roof construction. No. 1,340,667; May 18; v. 274; p. 512.
Overbury, Frederick C., Montclair, N. J., assignor to The Flintkote Company, Boston, Mass. Making shingle-strips. No. 1,340,402; May 18; v. 274; p. 462.
Overman, Max V., New York, N. Y. Tire. No. 1,340,556; May 18; v. 274; p. 491.
Owens, William L., Scottdale, Pa. Coördinator. No. 1,340,623; May 18; v. 274; p. 504.
Pacifico, James, Denver, Colo. Gun. No. 1,340,791; May 18; v. 274; p. 535.
Page, Roscoe B., Los Angeles, Calif. Folding bed. No. 1,340,735; May 18; v. 274; p. 525.
Panetti, David C. (See Panetti, Louis J. and D. C.)
Panetti, Louis J. and D. C., Jump River, Wis. Weeding-tool. No. 1,340,624; May 18; v. 274; p. 504.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Automatic electric switch or circuit controlling mechanism for electric fluid-heaters. No. 1,340,668; May 18; v. 274; p. 513.
Parker, John F., Kansas City, Mo. Non-skid chain. No. 1,340,182; May 18; v. 274; p. 421.
Parker, John F., Kansas City, Mo. Non-skid chain. No. 1,340,183; May 18; v. 274; p. 421.
Parks, William N. (See O'Brien, V. R., and Parks.)
Parsons, Harold K., and H. H. Styll, Southbridge, Mass. Electric soldering. No. 1,340,736; May 18; v. 274; p. 505.
Patten, John, Baltimore, assignor of one-half to S. M. Shoemaker, Eccleston, Md. Sulfuric-acid concentration. No. 1,340,290; May 18; v. 274; p. 440.
Patterson, Benjamin G., Fayetteville, Ark. Nut-lock. No. 1,340,496; May 18; v. 274; p. 480.
Paulson, Sivil, St. Paul, Minn. Cartridge-tube filler. No. 1,340,737; May 18; v. 274; p. 525.
Pausser, Arnaud, Philadelphia, Pa. Process of and apparatus for curling hair. No. 1,340,738; May 18; v. 274; p. 505.
Pavelka, Joseph, St. Louis, Mo. Shoe-lace tip. No. 1,340,669; May 18; v. 274; p. 513.
Peal, Marshall B., Brooklyn, N. Y. Combined spindle and casing for music-rolls. (Reissue.) No. 14,860; May 18; v. 274; p. 550.
Pease, William E., and N. H. Suloff, Cleveland, Ohio, assignors of one-third to W. H. Evers. Retaining-wall structure. No. 1,340,670; May 18; v. 274; p. 513.
Peck, Harley T., Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Shotgun-shell. No. 1,340,245; May 18; v. 274; p. 432.
Pennypacker, Edward J., Los Angeles, Calif., assignor to Motion Picture Apparatus Co., Inc., New York, N. Y. Shutter mechanism for motion-picture cameras. No. 1,340,557; May 18; v. 274; p. 491.
Perkins Electric Door Control Co. (See Perkins, Seth E., assignor.)
Perkins, Seth E., assignor to Perkins Electric Door Control Co., Waterloo, Iowa. Switch. No. 1,340,403; May 18; v. 274; p. 462.
Petan, John, Philadelphia, Pa. Ash-sage color-preserving extract. No. 1,340,246; May 18; v. 274; p. 432.
Peters Cartridge Company, The. (See Peck, Harley T., assignor.)
Petersen, Oluf G., Somerset, Ky. Excavating-machine. No. 1,340,247; May 18; v. 274; p. 432.
Peterson, Andrew M., New Athens, Ohio. Chimney-cap. No. 1,340,459; May 18; v. 274; p. 473.
Petit, Arthur G., Southbridge, Mass. Knockdown box. No. 1,340,248; May 18; v. 274; p. 433.
Piccioni, Gino, Tivoli, Italy. Multiple reproduction of patterns. No. 1,340,460; May 18; v. 274; p. 473.
Pieper, Henri, Liege, Belgium. Automatic controlling apparatus for mixed driving systems. No. 1,340,249; May 18; v. 274; p. 433.
Pierce, James S., Dunkirk, N. Y. Demountable rim. No. 1,340,671; May 18; v. 274; p. 513.
Pigeon, Albert M., assignor to Wildman M'f'g Co., Norristown, Pa. Anti-thread-ballooning device for knitting-machines. No. 1,340,681; May 18; v. 274; p. 515.
Pile, John R., assignor to International Farm Implement Company, Owensboro, Ky. Grading-machine. No. 1,340,497; May 18; v. 274; p. 480.
Pittock, John W., Philadelphia, Pa. Centrifugal machine for separating oil from chips. No. 1,340,682; May 18; v. 274; p. 515.
Planche, Benjamin R., Villefranche-sur-Saône, France. Rotary machine. No. 1,340,625; May 18; v. 274; p. 504.
Plummer, Henry L., assignor to Independent Trunk and Bag Company, Petersburg, Va. Machine for cutting and preparing dress-suit-case body-blanks. No. 1,340,558; May 18; v. 274; p. 491.
Pockert, John G., Dunn Center, N. D. Trace-buckle. No. 1,340,792; May 18; v. 274; p. 535.
Pohlig, Edgar W., New York, N. Y. Fender for vehicles. No. 1,340,835; May 18; v. 274; p. 543.
Poirier, Marcel H., Woonsocket, R. I. Coupling. No. 1,340,739; May 18; v. 274; p. 525.
Pollock, Robert B., Los Angeles, Calif. Direction-indicator. No. 1,340,343; May 18; v. 274; p. 451.
Poole Oil-Cracking & Refining Company. (See Poole, Willard B., assignor.)
Poole, Willard B., Okmulgee, Okla., assignor to Poole Oil-Cracking & Refining Company, Yuma, Ariz. Oil-cracking apparatus. No. 1,340,793; May 18; v. 274; p. 535.
Post, Judson. (See Witter, Ezra E., assignor.)
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Metal fitting for connecting together certain structural members of an aeroplane. No. 1,340,626; May 18; v. 274; p. 504.
Potter, Frederick C., Omaha, Nebr. Circuit-closer for vehicle-alarms. No. 1,340,344; May 18; v. 274; p. 451.
Powell, Letitia, Caruthersville, Mo. Ladder. No. 1,340,627; May 18; v. 274; p. 505.
Powell, Robert, St. Louis, Mo. Apparatus for making an underground passageway and for making and laying a pipe in same. No. 1,340,836; May 18; v. 274; p. 543.
Pratt & Cady Company. (See Cardwell, Addison A., assignor.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Power-shovel. No. 1,340,498; May 18; v. 274; p. 480.
Pratt, Walter M., Detroit, Mich. Reinforced-concrete floor construction. No. 1,340,291; May 18; v. 274; p. 440.
Preble, George L., Lynn, Mass. Insole. No. 1,340,404; May 18; v. 274; p. 462.
Preddey, Walter G., San Francisco, Calif. Picture-projection lamp. No. 1,340,499; May 18; v. 274; p. 480.
Prescott, Charles F., Brooklyn, N. Y. Steam-engine valve-gear. No. 1,340,405; May 18; v. 274; p. 462.
Price, Virgil M., Alameda, Calif. Concrete-mixer loader. No. 1,340,345; May 18; v. 274; p. 451.
Procunier, Frank G., De Soto, assignor of one-half to R. Q. Kimmel, Elkville, Ill. Compound-engine guide. No. 1,340,740; May 18; v. 274; p. 526.
Pruismann, Edward G., Webster City, Iowa. Transportation-truck. No. 1,340,672; May 18; v. 274; p. 513.
Pruyn, Emily C. (See Pruyn, John E., assignor.)
Pruyn, John E., assignor of one-half to E. C. Pruyn, Philadelphia, Pa. Ball-bearing. No. 1,340,250; May 18; v. 274; p. 433.
Pulsifer, Harrie B., Butte, Mont., assignor to Schaar & Company, Chicago, Ill. Analytical apparatus. No. 1,340,346; May 18; v. 274; p. 451.
R & G Company. (See Anderson, Edward L., assignor.)
Rahr, Chester E., Brookline, assignor to The Flintkote Company, Boston, Mass. Roofing element. No. 1,340,347; May 18; v. 274; p. 451.
Rahr, Chester E., Brookline, assignor to The Flintkote Company, Boston, Mass. Roof-shingle. No. 1,340,348; May 18; v. 274; p. 451.
Ralling, Max J. (See Hill, Reginald J. H., assignor.)
Rand, James H., North Tonawanda, N. Y. Index. No. 1,340,251; May 18; v. 274; p. 433.
Rasmussen, Niels C., Troy, N. Y. Blind-slat attachment. No. 1,340,252; May 18; v. 274; p. 433.
Re, Enrico, Camden, N. J. String musical instrument. No. 1,340,628; May 18; v. 274; p. 505.
Read, George B., Bloomington, Ill. Elevator. No. 1,340,253; May 18; v. 274; p. 433.
Reid, Edward M., assignor of one-half to W. H. Baker, Cambria, Va. Oiler. No. 1,340,406; May 18; v. 274; p. 463.
Reid, William, Hamilton, Scotland. Connection with apparatus for tipping wagons. No. 1,340,683; May 18; v. 274; p. 515.
Research Corporation. (See Schmidt, W. A., and Bradley, assignors.)
Reyburn, John R., Bridgeport, Conn., assignor to American Chain Company, Inc. Tire-grip tightener. No. 1,340,184; May 18; v. 274; p. 421.
Rhoades, Alonzo E., Hopedale, assignor to Draper Corporation, Hopedale, Mass. Friction-clutch pulley. No. 1,340,559; May 18; v. 274; p. 492.
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Twine ball. No. 1,340,254; May 18; v. 274; p. 434.

Rice, George L., Chicago, Ill., assignor, by mesne assignment, to International Harvester Company. Twine ball. No. 1,340,837; May 18; v. 274; p. 544.
Rice, Joseph M., Missoula, Mont. Signal device for motor-vehicles. No. 1,340,292; May 18; v. 274; p. 441.
Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Signal system for moving vehicles. No. 1,340,500; May 18; v. 274; p. 480.
Roach, Patrick J., and D. Carter, Toronto, Ontario, Canada. Meter for liquids. No. 1,340,293; May 18; v. 274; p. 441.
Roberts, Henry T., New York, N. Y. Making wrenches. No. 1,340,560; May 18; v. 274; p. 492.
Roberts, Lafe O., Portland, Oreg. Surgical appliance. No. 1,340,501; May 18; v. 274; p. 481.
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analysis apparatus. No. 1,340,838; May 18; v. 274; p. 544.
Roe, John J. A., Manchester, England. Ventilator. No. 1,340,673; May 18; v. 274; p. 513.
Rogers, Ernest, Cleveland, Ohio. Spark-plug. No. 1,340,674; May 18; v. 274; p. 514.
Rogers, Joel H., Jacksonville, Fla. Bracket. No. 1,340,684; May 18; v. 274; p. 516.
Ronning, Adolph. (See Ronning, Andrean G. and A.)
Ronning, Andrean G. and A., Minneapolis, Minn. Combination tractor implement. No. 1,340,461; May 18; v. 274; p. 473.
Rose, Harry B., and W. B. Enck, Buffalo, N. Y. Annealing-box. No. 1,340,675; May 18; v. 274; p. 514.
Ross, Charles E., Lebanon, Ohio. Antislipping tire-armor. No. 1,340,629; May 18; v. 274; p. 505.
Ross, Lafayette, East Lynn, W. Va. Rotary crushing-mill. No. 1,340,407; May 18; v. 274; p. 463.
Rowan, Robert C., Wheaton, assignor to Steel Fabricating Company, Chicago Heights, Ill. Sectional building. No. 1,340,561; May 18; v. 274; p. 492.
Rowe, John, assignor of one-half to S. R. Trotter, Casey, Iowa. Twine-treating attachment for binders. No. 1,340,294; May 18; v. 274; p. 441.
Royer, Elam M., *et al.* (See Herr, Abram B., assignor.)
Ruczynski, Boleslaw, Indiana Harbor, Ind. Sash-lock. No. 1,340,462; May 18; v. 274; p. 473.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Can-treating apparatus. No. 1,340,408; May 18; v. 274; p. 463.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Can-cover-removing apparatus. No. 1,340,409; May 18; v. 274; p. 463.
Runzel, William L., assignor to Runzel-Lenz Electric Mfg. Co., Chicago, Ill. Flexible cord. No. 1,340,839; May 18; v. 274; p. 544.
Runzel-Lenz Electric Mfg. Co. (See Runzel, William L., assignor.)
Rushing, Joe, Hickory Ridge, Ark. Mail-delivery apparatus. No. 1,340,840; May 18; v. 274; p. 544.
Russell, George H., Pittsfield, Mass. Window-wiping device. No. 1,340,794; May 18; v. 274; p. 536.
Russell, George W., Berryville, Ark. Cleaning apparatus for wells. No. 1,340,295; May 18; v. 274; p. 441.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,340,685; May 18; v. 274; p. 516.
Ryan, John F., Chicago Ill. Index. No. 1,340,410; May 18; v. 274; p. 463.
Sabin, William W., Portland, Oreg. Demountable lamp-bracket for automobiles. No. 1,340,686; May 18; v. 274; p. 516.
Safford, Henry, Little Rock, Ark. Copy and book holder. No. 1,340,411; May 18; v. 274; p. 464.
Sailer & Melvin Manufacturing Company, The. (See Sailer, Arthur G., assignor.)
Sailer, Arthur G., assignor to The Sailer & Melvin Manufacturing Company, Massillon, Ohio. Wire-coiling machine. No. 1,340,296; May 18; v. 274; p. 441.
Sallsbury, Alfred J. (See Ivey, P. D., and Salisbury.)
Saltzman, Joseph. (See Capman, Carl E., assignor.)
Sandmann, Frank A., Rahway, N. J. Metal filing-case. No. 1,340,562; May 18; v. 274; p. 492.
Savage Tire Company, The. (See Flegal, Forrest G., assignor.)
Sawyer-Soucy, Albert G. (See Sawyer-Soucy, Louis and A. G.)
Sawyer-Soucy, Louis and A. G., Lynn, Mass. Electric-light regulator. No. 1,340,795; May 18; v. 274; p. 536.
Schaar & Company. (See Pulsifer, Harrie B., assignor.)
Scharff, May. (See Munn, William B., assignor.)
Schaub, Jacob, Newark, N. J., assignor to The Theroz Company, New York, N. Y. Artificial-fuel machine. No. 1,340,463; May 18; v. 274; p. 473.
Schaub, Jacob, Lawrenceburg, Ind., assignor to The Theroz Company, New York, N. Y. Mixing-mill. No. 1,340,464; May 18; v. 274; p. 473.
Schell, Charles F., Philadelphia, Pa. Oiling system. No. 1,340,687; May 18; v. 274; p. 516.
Schiff, Julian N., New York, N. Y. Multiplex-sheave drum. No. 1,340,297; May 18; v. 274; p. 442.
Schindler, Walter R., Long Beach, Calif. Plant-protecting cap. No. 1,340,631; May 18; v. 274; p. 506.
Schmalkuche, William F., *et al.* (See Landa, Louis F., assignor.)
Schmalkuche, William F., Jr., *et al.* (See Landa, Louis F., assignor.)
Schmelzer, Charles F., Flint, Mich. Milling-machine attachment. No. 1,340,741; May 18; v. 274; p. 526.
Schmid, Gottlob F. and K. O., Indianapolis, Ind. Tprbine gas-engine. No. 1,340,563; May 18; v. 274; p. 492.
Schmid, Karl O. (See Schmid, Gottlob F. and K. O.)
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Electrically welding. No. 1,340,412; May 18; v. 274; p. 464.
Schmidt, John, Jr., Philadelphia, Pa. Can-filling machine. No. 1,340,185; May 18; v. 274; p. 421.
Schmidt, Walter A., Los Angeles, Calif., and L. Bradley, East Orange, N. J., assignors to Research Corporation, New York, N. Y. Apparatus and method for rectifying high-tension alternating current. No. 1,340,502; May 18; v. 274; p. 481.
Schmidt, Willielm, Monroe, Wash. Beet-puller. No. 1,340,796; May 18; v. 274; p. 536.
Schneeweiss, William T., St. Louis, Mo. Device for removing slip-covers. No. 1,340,413; May 18; v. 274; p. 464.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers. No. 1,340,414; May 18; v. 274; p. 464.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-supporting platform. No. 1,340,415; May 18; v. 274; p. 465.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,416; May 18; v. 274; p. 465.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,417; May 18; v. 274; p. 465.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,418; May 18; v. 274; p. 465.
Schloch, Frank J., Greensboro, N. C. Window-screen. No. 1,340,797; May 18; v. 274; p. 536.
Schoolfield, Lucille D., Danville, Va., assignor of one-fourth to W. L. Edmonston, Washington, D. C. Knitting-needle. No. 1,340,255; May 18; v. 274; p. 434.
Schopper, Albert L., Endora, Kans. Laced shoe. No. 1,340,503; May 18; v. 274; p. 481.
Schrage, Louis F., Palatine, Ill. Corn-husker pin. No. 1,340,419; May 18; v. 274; p. 466.
Schwank, James O. (See Madigan, Thomas J., assignor.)
Scott, Charles E., Del Norte, Colo. Potato-receptacle. No. 1,340,798; May 18; v. 274; p. 537.
Scott, James A., Los Angeles, Calif. Centering device for pistons, &c. No. 1,340,841; May 18; v. 274; p. 544.
Scott, William M., Tredyffrin township, Chester county, Pa. Shock-proof circuit-breaker structure. No. 1,340,564; May 18; v. 274; p. 493.
Seastrunk, Thomas P., Dallas, Tex. Emblem structure. No. 1,340,465; May 18; v. 274; p. 474.
Seidenberg, Armin, New York, N. Y. Fractionating compound substances containing ingredients of closely-related solubility. No. 1,340,186; May 18; v. 274; p. 421.
Seidenburg, Charles L., assignor to W. Curry, Philadelphia, Pa. Garment-hanger support. No. 1,340,565; May 18; v. 274; p. 493.
Seidl, Rudolf, Minneapolis, Minn. Culinary device. No. 1,340,566; May 18; v. 274; p. 493.
Seitz, James P., Walla Walla, Wash. Tractor-draw-bar attachment. No. 1,340,504; May 18, v. 274; p. 481.
Serwe, Philip L., Chicago, Ill., and G. C. Dickey, Seattle, Wash. Refrigerator display vending-vehicle. No. 1,340,853; May 18; v. 274; p. 547.
Settle, William L., assignor to J. R. Corbett, Memphis, Tenn. Spudding-shoe. No. 1,340,420; May 18; v. 274; p. 466.
Seymour, Mark L., Potlatch, Idaho, assignor of one-third to T. Tucker, and one-third to Washington Machinery and Supply Company, Spokane, Wash. Portable cooking-stove. No. 1,340,421; May 18; v. 274; p. 466.
Shadall, Charles E., Milwaukee, assignor to Shadall Manufacturing Company, Wauwatosa, Wis. Water-closet. No. 1,340,567; May 18; v. 274; p. 493.
Shadall Manufacturing Company. (See Shadall, Charles E., assignor.)
Shambow, John C., Woonsocket, R. I., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttles. No. 1,340,568; May 18; v. 274; p. 493.
Shambow Shuttle Company. (See Shambow, John C., assignor.)
Sharp, William P., Columbus, Ohio. Curtain-holder for automobile-tops. No. 1,340,799; May 18; v. 274; p. 537.
Shaw, Frederick H., *et al.* (See Dobbins, Michael G., assignor.)
Shea, Francis A. (See Tucker, Frank W., assignor.)
Sheldon, Samuel B., Duluth, Minn. Ingot-pouring mechanism. No. 1,340,422; May 18; v. 274; p. 466.
Sherlock, Charles B., and J. B. Morse, Washington, D. C. Cutter. No. 1,340,800; May 18; v. 274; p. 537.
Shields, Mark M., Republic, Wash. Trap. No. 1,340,801; May 18; v. 274; p. 537.
Shigley, Cyrus C., Grand Rapids, assignor to Electric Phonograph Co., Kalamazoo, Mich. Reproducer. No. 1,340,298; May 18; v. 274; p. 442.

Shiner, Albert E., London, England. Rotary pump. No. 1,340,632; May 18; v. 274; p. 506.
Shoemaker, Samuel M. (See Patten, John, assignor.)
Siegel, Anna. (See Siegel, Samuel, assignor.)
Siegel, Samuel, assignor to A. Siegel, New York, N. Y. Note-indicator for pianos. No. 1,340,569; May 18; v. 274; p. 493.
Silva, Juan N., Dover, Ohio. Kiln. No. 1,340,633; May 18; v. 274; p. 506.
Simmen Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)
Simmons Company. (See Alleman, Edward C., assignor.)
Simmons Company. (See Bayer, Matthew F., assignor.)
Simmons, John T., Brownwood, assignor of one-half to Hughes Tool Company, Houston, Tex. Pipe-puller. No. 1,340,676; May 18; v. 274; p. 514.
Small, Chesley T., St. Louis, Mo. Seaming-roll. No. 1,340,842; May 18; v. 274; p. 544.
Smiley, Orvall, Indianapolis, Ind. Motor-stethoscope. No. 1,340,299; May 18; v. 274; p. 442.
Smiley, Orvall, Indianapolis, Ind. Motor-stethoscope. No. 1,340,300; May 18; v. 274; p. 442.
Smith, Floyd, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company. Parachute. No. 1,340,423; May 18; v. 274; p. 466.
Smith, Floyd, Aerial Equipment Company. (See Smith, Floyd.)
Smith, Jack, New York, N. Y. Scenic amusement apparatus. No. 1,340,570; May 18; v. 274; p. 494.
Smith, Raymond D., assignor to Tremont Products Company, Boston, Mass. Delayed cut-off for Bunsen gas-burners. No. 1,340,843; May 18; v. 274; p. 545.
Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,340,505; May 18; v. 274; p. 481.
Smithback, Neal, and W. H. Meier, Madison, Wis. Grain-door. No. 1,340,506; May 18; v. 274; p. 482.
Smithey, Marvin. (See Miller, Charles F., assignor.)
Snideman, Frank A., Gary, Ind. Pull-out device for motor-vehicles. No. 1,340,349; May 18; v. 274; p. 452.
Snider, Charles A., Atlanta, Ga. Double-acting metal-planer. No. 1,340,256; May 18; v. 274; p. 434.
Snyder, Edgar W. (See Kryder, F. L., and Snyder.)
Snyder, Hubberd J., Tacoma, Wash. Lumber-loading roll for cars. No. 1,340,507; May 18; v. 274; p. 482.
Societe Des Moteurs Salmson (Systeme Canton-Unne). (See Postel-Vinay, Pierre J. R., assignor.)
Societe du Carburateur Zenith. (See Boulade, Antonin, assignor.)
Societe Lorraine Des Anciennes Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)
Soderstrom, Oscar, New York, N. Y., and W. Fuhrmann, Westfield, N. J. Machine for making snap-fasteners. No. 1,340,634; May 18; v. 274; p. 506.
Sommers, Adolph H., Allentown, Pa. Heel. No. 1,340,571; May 18; v. 274; p. 494.
Sonnichsen, Andreas M., Chicago, Ill. Constructing air-pumps. No. 1,340,844; May 18; v. 274; p. 545.
Spahr, Otto, assignor to Strause Gas Iron Co., Philadelphia, Pa. Sadiron. No. 1,340,257; May 18; v. 274; p. 434.
Sparks, William, Jackson, Mich. Float. No. 1,340,572 May 18; v. 274; p. 494.
Speer, John G., assignor of one-half to U. S. Williams, Wichita, Kans. Saw-oiler. No. 1,340,742; May 18; v. 274; p. 526.
Spery, Charles F., assignor to Hooven Radiator Company, Chicago, Ill. Radiator-core plate. No. 1,340,258; May 18; v. 274; p. 434.
Stafford, David G., Phoenix, British Columbia, Canada. Automatic control mechanism for hoisting machinery and the like. No. 1,340,301; May 18; v. 274; p. 442.
Stafford, Thomas H., Franklin, N. H. Gas-mantle lamp. No. 1,340,424; May 18; v. 274; p. 466.
Stahlhuth, Samuel G. (See Hiller, Charles, assignor.)
Stead, William T., Memorial Center. (See Davison, Charles W., assignor.)
Steel Fabricating Company. (See Rowan, Robert C., assignor.)
Steele, John H. (See Lane, C. H., and Steele.)
Steinmetz, Joseph A., Philadelphia, Pa. Navigating aircraft. No. 1,340,573; May 18; v. 274; p. 494.
Stenbo, Kristen S., Copenhagen, Denmark. Grinding-mill for coffee. No. 1,340,635; May 18; v. 274; p. 506.
Sterne, Alfred J., Scarsdale, N. Y. Buckle. No. 1,340,302; May 18; v. 274; p. 442.
Sterne, Alfred J., Scarsdale, N. Y. Buckle. No. 1,340,303; May 18; v. 247; p. 443.
Stevenson, William G., Chicago, Ill. Car-loading device. No. 1,340,574; May 18; v. 274; p. 494.
Stockle, Erwin R., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrolonic valve. No. 1,340,575; May 18; v. 274; p. 495.
Strause Gas Iron Co. (See Spahr, Otto, assignor.)
Strong, Albin L., Hoboken, N. J. Drill-chuck or the like. No. 1,340,845; May 18; v. 274; p. 545.
Sturges, Norman D., Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company. Storage-battery. No. 1,340,636; May 18; v. 274; p. 507.
Sturges, Norman D., Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company. Storage battery. No. 1,340,637; May 18; v. 274; p. 507.
Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)
Styll, Harry H. (See Parsons, H. K., and Styll.)
Suloff, Noah H. (See Pease, W. E., and Suloff.)
Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Quick-opening separable fastener. No. 1,340,187; May 18; v. 274; p. 422.
Superior Machine Company. (See Cooling, Arthur B., assignor.)
Superior Manufacturing Company. (See Woock, Herbert J. and W. R., assignors.)
Superior Tool Company, The. (See Williams, Harry W., assignor.)
Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
Syndicaat Graamans Patent. (See Graamans, Christian A. R., assignor.)
Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Hand- operating device for muffler cut-outs. No. 1,340,802; May 18; v. 274; p. 537.
Taft, Robert C., Moline, Ill. Car-underframe. No. 1,340,576; May 18; v. 274; p. 495.
Tangerman, William J., Hammond, Ind. Tank-car anchorage. No. 1,340,188; May 18; v. 274; p. 422.
Tate, Earl H., Los Angeles, Calif. Liquid-fuel burner. No. 1,340,803; May 18; v. 274; p. 537.
Taussig, Gottlieb, New York, and C. Wagenfohr, Brooklyn, N. Y. Educational toy. No. 1,340,304; May 18; v. 274; p. 443.
Taylor, Harry C., West Frankfort, Ill. Automatic safety-stop. No. 1,340,305; May 18; v. 274; p. 443.
Taylor, John W., Philadelphia, Pa. Parachute. No. 1,340,259; May 18; v. 274; p. 434.
Theroz Company, The. (See Schaub, Jacob, assignor.)
Thollander, John A., Piedmont, Fla. Sectional tool-ladder. No. 1,340,688; May 18; v. 274; p. 516.
Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,340,804; May 18; v. 274; p. 538.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Registering-circuits for coin-boxes. No. 1,340,260; May 18; v. 274; p. 435.
Thompson, James T., Washington, D. C. Lighting-fixture. No. 1,340,261; May 18; v. 274; p. 435.
Thompson, Robert A., and L. P. Morris, assignors to International Manufacturing Company of Texas, Dallas, Tex. Churn. No. 1,340,466; May 18; v. 274; p. 474.
Thomson, John C., Chicago, Ill. Doughnut-making machine. No. 1,340,805; May 18; v. 274; p. 538.
Thorne, Frederick W., Chicago, Ill. Strap and fastening. No. 1,340,350. May 18; v. 274; p. 452.
Thornycroft, John E. (See Thornycroft, T. and J. E.)
Thornycroft, Tom and J. E., Westminster, England. Gun for discharging projectiles by gases supplied thereto under pressure. No. 1,340,689; May 18; v. 274; p. 517.
Thorsgard, Henry, *et al.* (See Flagstad, Cornell, assignor.)
Thorsgard, Knut, *et al.* (See Flagstad, Cornell, assignor.)
Threadgill, Wilmer, Laredo, Tex. Machine for picking cotton. No. 1,340,577; May 18; v. 274; p. 495.
Tidd Recording Clock Company. (See Tidd, Walter J., assignor.)
Tidd, Walter J., assignor to Tidd Recording Clock Company, Springfield, Mass. Watchman's time-recorder. No. 1,340,578; May 18; v. 274; p. 495.
Tiffin, Vandevere, Tacoma, assignor to Combo Manufacturing Co., Seattle, Wash. Convertible furniture. No. 1,340,467; May 18; v. 274; p. 474.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,340,189; May 18; v. 274; p. 422.
Titeflex Metal Hose Corporation. (See Brinkman, Louis H., assignor.)
Torrington Company, The. (See Graham, James H., assignor.)
Tousey, Sinclair, New York, N. Y. Device for aiming firearms. No. 1,340,579; May 18; v. 274; p. 495.
Tracy, Homer D., assignor to Barbour Flax Spinning Company, Paterson, N. J. Machine for forming tubular fabrics. No. 1,340,425; May 18; v. 274; p. 467.
Travis, Clayton H., Polo, Ill. Fertilizer-distributer. No. 1,340,806; May 18; v. 274; p. 538.
Trego, Jennie C. (See Trego, Joseph P., Jr., assignor.)
Trego, Joseph P., administrator. (See Trego, Joseph P., Jr.)
Trego, Joseph P., Jr., deceased; J. P. Trego, administrator, assignor to J. C. Trego, Newton, Kans. Explosion-engine. No. 1,340,580; May 18; v. 274; p. 496.
Tremont Products Company. (See Smith, Raymond D., assignor.)
Trenton Potteries Company. (See Hinsdale, Winfield E., assignor.)
Trotter, S. R. (See Rowe, J., assignor)
Truscott, Herbert W., Omaha, Nebr. Tractor. No. 1,340,306; May 18; v. 274; p. 443.
Tucker, Edwin W., North Prairie, Wis. Wagon-brake. No. 1,340,743; May 18; v. 274; p. 526.
Tucker, Frank W., Lynn, assignor to F. A. Shea, Boston, Mass. Leather-working machine. No. 1,340,262; May 18; v. 274; p. 435.
Tucker, Theodore, *et al.* (See Seymour, Mark L., assignor.)
Turney, Eugene T., New York, N. Y., assignor of one-half to E. C. Wilcox, Meriden, Conn. Sound-box. No. 1,340,854; May 18; v. 274; p. 547.

Turtle, Morton A., East Orange, N. J. Toy pistol. No. 1,340,190; May 18; v. 274; p. 422.
U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)
U. S. Tractor & Machinery Company. (See Harris, Grover D., assignor.) (Reissue.)
Udovich, Joseph, Duluth, Minn. Safety scaffolding-hanging apparatus. No. 1,340,191; May 18; v. 274; p. 422.
Umholtz, Augustus, Port Carbon, Pa. Telephone-receiver. No. 1,340,807; May 18; v. 274; p. 538.
Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Union Special Machine Company. (See Loggie, William J., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., Jr., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Howard, Charles B., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Wire and Supply Company. (See McIntyre, Patrick J., assignor.)
Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
Universal Safety Tread Company. (See Oliver, Charles E., assignor.)
Urbieta, José M., Del Rio, Tex. Car-axle lubricator. No. 1,340,808; May 18; v. 274; p. 538.
Van Brunt Manufacturing Company, The. (See Van Brunt, Willard A., assignor.)
Van Brunt, Willard A., Los Angeles, Calif., assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Spring-pressure-regulating device. No. 1,340,581; May 18; v. 274; p. 496.
Van Iderstine, Raymond, Newark, N. J. Display-carton. No. 1,340,744; May 18; v. 274; p. 526.
Vaughan, David, Youngstown, Ohio. Overhead-valve lifter. No. 1,340,192; May 18; v. 274; p. 422.
Vaughan, George W., Mount Vernon, N. Y. Frog footguard. No. 1,340,582; May 18; v. 274; p. 496.
Vaught, James C. H., New York, N. Y. Power-drill. No. 1,340,468; May 18; v. 274; p. 474.
Veara, Albert L., Bridgeport, Conn. Permutation-lock. No. 1,340,583; May 18; v. 274; p. 496.
Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed-water-regulator system. No. 1,340,846; May 18; v. 274; p. 545.
Vetter, Joseph, Toledo, Ohio. Bow for automobile-tops. No. 1,340,307; May 18; v. 274; p. 443.
Vick, Martin L., Sheyenne, N. D. Rural mail-box support or holder. No. 1,340,426; May 18; v. 274; p. 467.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vickers Limited. (See Ingoldby, Maurice K., assignor.)
Vickers Limited. (See North, Thomas K., assignor.)
Victor Electric Corporation. (See Wantz, Julius B., assignor.)
Vodoz, Frederick W., Chicago, Ill., assignor to Johnson Automobile Lock Company. Adjustable steering-wheel and lock. No. 1,340,638; May 18; v. 274; p. 507.
Vonnegut, Anton. (See Gathman, M. B., and Eaglesfield, assignors.)
Vreeland, Frederick K., Montclair, N. J. Electrical oscillator. No. 1,340,193; May 18; v. 274; p. 423.
Waechter, Ferdinand F., Philadelphia, Pa. Making puddle-balls and furnaces therefor. No. 1,340,690; May 18; v. 274; p. 517.
Wagenfohr, Carl. (See Taussig, G., and Wagenfohr.)
Waite, Lorenzo E., Toledo, Ohio. Feeding mechanism for machine-tools. No. 1,340,584; May 18; v. 274; p. 497.
Waite, Lorenzo E., Toledo, Ohio. Spindle-driving mechanism for machine-tools. No. 1,340,585; May 18; v. 274; p. 497.
Waite, Lorenzo E., Toledo, Ohio. Quick-traverse mechanism for feeds for machine-tools. No. 1,340,586; May 18; v. 274; p. 497.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,469; May 18; v. 274; p. 474.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,864; May 18; v. 274; p. 548.
Walker, Reginald E., Tyseley, Birmingham, England. Spring-frame for motorcycles. No. 1,340,508; May 18; v. 274; p. 482.
Wallace, Frederick L. (See Johnston, W. A., Browne, and Wallace.)
Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Printing-press impression-cylinder. No. 1,340,194; May 18; v. 274; p. 423.
Waltham Watch Company. (See Ohlson, Olof, assignor.)
Walton, William L., Bantry, N. D. Wheel-lift. No. 1,340,587; May 18; v. 274; p. 497.
Wantz, Julius B., assignor, by mesne assignments, to Victor Electric Corporation, Chicago, Ill. Electrical apparatus. No. 1,340,588; May 18; v. 274; p. 497.
Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
Washington Machinery and Supply Company, *et al.* (See Seymour, Mark L., assignor.)
Watanabe, Konosuke, Edmonton, Alberta, Canada. Lamp-adjuster. No. 1,340,195; May 18; v. 274; p. 423.
Watson, Henry, Newport, Wales. Device for sharpening or honing ordinary or safety razors, blades, or other light cutting-tools. No. 1,340,509; May 18; v. 274; p. 482.
Watson, William F., assignor of one-half to F. W. Hout, Olean, N. Y. Hose-supporter. No. 1,340,745; May 18; v. 274; p. 527.
Way, John H., Philadelphia, Pa. Pneumatic riveting-hammer. No. 1,340,196; May 18; v. 274; p. 423.
Wehr, Austin A., Baden, Pa. Art of and apparatus for cooling and condensing gasolene or light vapors. No. 1,340,427; May 18; v. 274; p. 467.
Weimer, Rudolph. (See Wiester, Stefan, assignor.)
Weinacker, Hermann, assignor, by mesne assignments, to General Chain Company, Providence, R. I. Chain-making machine. No. 1,340,639; May 18; v. 274; p. 507.
Weisman, Ralph. (See Weissman, S., and Weisman.)
Weiss, John M., New York, N. Y., assignor to The Barrett Company. Composition of matter containing bituminous material. No. 1,340,855; May 18; v. 274; p. 547.
Weissman, Samuel, and R. Weisman, Detroit, Mich. Bed-spring. No. 1,340,510; May 18; v. 274; p. 482.
Welch, Lon L., assignor to Hampton Electric and Machine Company, San Francisco, Calif. Billet-turner. No. 1,340,640; May 18; v. 274; p. 507.
Wells, Loren S., New York, N. Y. System for recording electrical phenomena. No. 1,340,197; May 18; v. 274; p. 423.
Wendelken, Charles, Tivoli, Tex. Bank-check writer. No. 1,340,428; May 18; v. 274; p. 467.
Wendelken, Charles, Robstown, Tex. Check-writer. No. 1,340,429; May 18; v. 274; p. 468.
Western Manufacturing Co. (See McMullin, Joseph B., assignor.)
Western Vulcanizer Manufacturing Company. (See Wheelock, Herbert K., assignor.)
Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
Whall, Richard A., Athol, Mass. Outer garment. No. 1,340,351; May 18; v. 274; p. 452.
Wheeler, Robert S., Grenloch, N. J. Cotton-gin. No. 1,340,691; May 18; v. 274; p. 517.
Wheelock, Herbert K., Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,340,641; May 18; v. 274; p. 507.
Wheelock, Herbert K., Chicago, Ill., assignor to Western Vulcanizer Manufacturing Company. Vulcanizer. No. 1,340,642; May 18; v. 274; p. 508.
White, Frederick H., Chicago, Ill. Photoprinting-machine. No. 1,340,511; May 18; v. 274; p. 482.
White, John C. (See Wilkinson, John B., assignor.)
White, S. S., Dental Manufacturing Company, The. (See Johnston, W. A., Browne, and Wallace, assignors.)
Whitehead, Paul, San Diego, Calif. Means and method of catching fish. No. 1,340,677; May 18; v. 274; p. 514.
Whitener, James T., assignor, by mesne assignments, of one-half to W. L. Whitener, Tishomingo, Miss. Millstone-sharpening pick. No. 1,340,589; May 18; v. 274; p. 498.
Whitener, William L. (See Whitener, James T., assignor.)
Whitestone, Godtfred. (See Nicholson, G. F., and Whitestone.)
Whitmore, Fremont F., Seattle, Wash. Bolting-up device. No. 1,340,470; May 18; v. 274; p. 475.
Whitmore, William F., West Hartford, Conn. Water-hydrant. No. 1,340,352; May 18; v. 274; p. 452.
Whitten, Stahl A. (See Ballman, Edwin C., assignor.)
Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Regulator for electric motors. No. 1,340,678; May 18; v. 274; p. 514.
Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Regulator for electric motors. No. 1,340,679; May 18; v. 274; p. 515.
Wiester, Stefan, Beaver Dam, assignor of one-half to Rudolph Weimer, Sheboygan, Wis. Cooling enamel. No. 1,340,353; May 18; v. 274; p. 452.
Wilcox, Ernest C. (See Turney, Eugene T., assignor.)
Wilcox, Frank S., Union, S. C. Apparatus for treating knitted webs. No. 1,340,809; May 18; v. 274; p. 538.
Wilcox, Frederick A., and L. McGregory Spokane, Wash. Coffee-roasting machine. No. 1,340,692; May 18; v. 275; p. 517.
Wilcox, William H. (See Ingham, C. H., and Wilcox.)
Wild, Morton, New York, N. Y. Toy. No. 1,340,512; May 18; v. 274; p. 483.
Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)
Wilkinson, John B., Milwaukee, assignor of one-half to J. C. White, Madison, Wis. Differential gage. No. 1,340,198; May 18; v. 274; p. 423.
Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Lard-dispensing machine. No. 1,340,590; May 18; v. 274; p. 498.

Williams, Joseph S., Philadelphia, Pa. Demountable-wheel equipment. No. 1,340,199; May 18; v. 274; p. 424.

Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Cage construction for mills. No. 1,340,643; May 18; v. 274; p. 508.

Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)

Williams, Percy N., Pelham Manor, N. Y. Odontometer. No. 1,340,354; May 18; v. 274; p. 453.

Williams, U. S. (See Speer, John G., assignor.)

Williams, Warren S., assignor to H. C. Fry Glass Company, Rochester, Pa., Making earthenware articles. No. 1,340,308; May 18; v. 274; p. 444.

Williamson, Marshall L., Baltimore, Md. Vibratory-diaphragm controller. No. 1,340,471; May 18; v. 274; p. 475.

Wills, James B. (See Culver, L. O., and Wills.)

Wilson, David H., Ridgewood Park, and R. G. Hutton, Wortendyke, N. J. Reinforced welded joint. No. 1,340,644; May 18; v. 274; p. 508.

Wilson, William R. Terre Haute, Ind. Rolling-disk-colter hub. No. 1,340,693; May 18; v. 274; p. 517.

Wilson, Wylie G., New York, N. Y. Coin-controlled vending machine. No. 1,340,174; May 18; v. 274; p. 419.

Winget, Jasper S., York, Pa. Child's folding combined bed and coop. No. 1,340,694; May 18; v. 274; p. 517.

Wirebounds Patents Company. (See Lavenberg, Perry C., assignor.)

Witter, Ezra E., assignor of one-third to J. Post, Zion City, Ill. Hinge. No. 1,340,866; May 18; v. 274; p. 549.

Wittstein, Herman L., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Gate-valve. No. 1,340,591; May 18; v. 274; p. 498.

Woerz, Henry C., New York, N. Y. Air-navigating vessel. No. 1,340,309; May 18; v. 274; p. 444.

Wolff, George, Paterson, N. J. Antifriction-bearing. No. 1,340,310; May 18; v. 274; p. 444.

Woock, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Deep-well pump. No. 1,340,472; May 18; v. 274; p. 475.

Woock, Walter R. (See Woock, Herbert J. and W. R.)

Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Safety device for printing-presses. No. 1,340,355; May 18; v. 274; p. 453.

Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)

Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)

Wright, Frank, Blairmore, Alberta, Canada. Security sheath hinge and door fastening. No. 1,340,430; May 18; v. 274; p. 468.

Wright, Reuben L., Wickliffe-on-the-Lake, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Motor-control system. (Reissue.) No. 14,861; May 18; v. 274; p. 550.

Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)

Yarnell, John B., and H. Frank, Johnstown, Pa. Baseball-overshoe. No. 1,340,356; May 18; v. 274; p. 453.

Yates, John W., New York, N. Y. Fireproof window-closing means. No. 1,340,311; May 18; v. 274; p. 444.

Yates, John W., New York, N. Y. Fireproof window. No. 1,340,312; May 18; v. 274; p. 444.

Yearwood, Byrd O. (See Jackson, R. E., and Yearwood.)

Yeats, Samuel W., Monrovia, Calif. Hook-and-eye fastener. No. 1,340,858; May 18; v. 274; p. 547.

Youngman, Emanuel M., Coney Island, N. Y. Thermostat-controller for hot-water gas-heaters. No. 1,340,513; May 18; v. 274; p. 483.

Yungk, Edwin L., Hartford, Conn. Swagger-stick. No. 1,340,746; May 18; v. 274; p. 527.

Zimmerman, Carrie F., Taft, Calif. Bedpan. No. 1,340,680; May 18; v. 274; p. 515.

Zipp, Arthur J., Charlevoix, Mich. Logging grapples or tongs. No. 1,340,313; May 18; v. 274; p. 445.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Allard, Maurice L. A. A., Akron, Ohio, assignor to The Overland Tire & Rubber Co., Omaha, Nebr. Tire-tread. No. 55,144; May 18; v. 274; p. 550.

Ashland Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)

Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)

Bent, George H. (See Cheney, Forest, assignor.)

Bradfield, Fred E., Davenport, Iowa. Radiator. No. 55,145; May 18; v. 274; p. 551.

Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio. Tire-tread. Nos. 55,146–7; May 18; v. 274; p. 551.

Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)

Campling, Gilbert, Purley, assignor to Gilbert Campling, Limited, London, England. Motor-scooter. No. 55,148; May 18; v. 274; p. 551.

Cheney, Forest, Grand Rapids, Mich., assignor of one-third to G. H. Bent, Chicago, Ill. Bell for a brass-wind instrument. No. 55,149; May 18; v. 274; p. 551.

Chicago Surgical & Electrical Company. (See Lidberg, Tiodolf, assignor.)

Continental Sheffield Silver Co. (See Gaertner, Victor, assignor.)

Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 55,150–55; May 18; v. 274; p. 552.

Dayton Manufacturing Company, The. (See Hutchins, Rufus J., assignor.)

Delikat, Thomas, Newark, N. J. Spring support and hanger. No. 55,156; May 18; v. 274; p. 553.

Dubish, Mike, Chicago, Ill. Curtain and shade hanger. No. 55,157; May 18; v. 274; p. 553.

Durham, William E., assignor to The Emory Rubber Sole Co., Inc., Norfolk, Va. Shoe-heel. No. 55,158; May 18; v. 274; p. 553.

Electric Phonograph Corporation, The. (See Thorpe, Walter, assignor.)

Emory Rubber Sole Co., Inc., The. (See Durham, William E., assignor.)

Fidelity Tire & Rubber Company. (See McConnell, George C., assignor.)

Forrest, Edwin, New York, N. Y. Combined phonograph case and cabinet. No. 55,159; May 18; v. 274; p. 553.

Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Article of hollow tableware. Nos. 55,160–4; May 18; v. 274; pp. 553–4.

Garford Manufacturing Company, The. (See Kunkle, George R., assignor.)

General Electric Company. (See Gosling, Joseph W., assignor.)

Gilbert Campling, Limited. (See Campling, Gilbert, assignor.)

Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Canopy for a lamp-globe. Nos. 55,165–7; May 18; v. 274; p. 554.

Grayson, John H., Athens, Ohio. Gas-heater. No. 55,168; May 18; v. 274; p. 555.

Griswold, Manufacturing Company. (See Massing, Charles A., assignor.)

Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Auto-curtain window. No. 55,169; May 18; v. 274; p. 555.

Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Frame for a sprinkler-head or similar article. No. 55,170; May 18; v. 274; p. 555.

Hanley, John L., Chicago, Ill. Tread of a pneumatic-tire casing. No. 55,171; May 18; v. 274; p. 555.

Hickok Manufacturing Company. (See Davis, Earl M., assignor.)

Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

Hoffman, Harry and L., Philadelphia, Pa. Seepage-intercepting attachment for dashboards. No. 55,172; May 18; v. 274; p. 555.

Hoffman, Lois. (See Hoffman, Harry and L.)

Howe Rubber Corporation. (See Tenney, John, Jr., assignor.)

Humphrey, Alfred H., New York, N. Y. Gas-stove. Nos. 55,173–8; May 18; v. 274; p. 556.

Hutchins, Rufus J., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Casing for water-heaters. No. 55,179; May 18; v. 274; p. 557.

International Silver Co. (See Kintz, Alfred G., assignor.)

Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 55,180; May 18; v. 274; p. 557.

Kunkle, George R., assignor to The Garford Manufacturing Company, Elyria, Ohio. Phonograph-casing. No. 55181; May 18; v. 274; p. 557.

Landry, Joseph L. P., Mont Joli, Quebec, Canada. Headlight-bracket. No. 55,182; May 18; v. 274; p. 557.

Langhammer, Frank L. (See Warner, D. C., and Langhammer.)

Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Candelabrum. Nos. 55,183–5; May 18; v. 274; pp. 557–8.

Lidberg, Tiodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Physician's table. No. 55,186; May 18; v. 274; p. 558.

Luminous Unit Company. (See Owen, Raymond V., assignor.)

Luttringhaus, Walter, Maywood, Ill. Cooker-pot. No. 55,187; May 18; v. 274; p. 558.

McCargar, Rush, Seattle, Wash. Casing for a stage floodlight. No. 55,189; May 18; v. 274; p. 558.

McConnell, George C., assignor to Fidelity Tire & Rubber Co., Massillon, Ohio. Tire-tread or similar article. No. 55,190; May 18; v. 274; p. 559.

McMullen, Charles. (See Miller, A. G., and McMullen.)

Marsh, C. A., and Company. (See Rounseville, William E., assignor.)

Massing, Charles A., Millcreek township, Erie county, assignor to Griswold Manufacturing Company, Erie, Pa. Cooking-receptacle. No. 55,188; May 18; v. 274; p. 558.

Miller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 55,191; May 18; v. 274; p. 559.

Nichthauser, Charles A., New York, N. Y. Purse. Nos. 55,192–3; May 18; v. 274; p. 559.

Nightingale Manufacturing Company. (See Wolper, Harry B., assignor.)

Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Top plate for a phonograph-motor. No. 55,194; May 18; v. 274; p. 559.

Overland Tire and Rubber Co., The. (See Allard, Maurice L. A. A., assignor.)

Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Lamp-shade. No. 55,195; May 18; v. 274; p. 559.

Pearson, Sigrid L. M., Chicago, Ill. Phonograph-casing. No. 55,196; May 18; v. 274; p. 560.

Rounseville, William E., assignor to C. A. Marsh and Company, Attleboro, Mass. Belt-clasp. No. 55,197; May 18; v. 274; p. 560.

Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 55,198–213; May 18; v. 274; pp. 560–2.

Stanfenbell, Karl, Dubuque, Iowa. Collar-clip. No. 55,214; May 18; v. 274; p. 565.

Talbot, Vernon, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Ice-cream scoop. No. 55,215; May 18; v. 274; p. 563.

Tenney, John, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation. Tire. No. 55,216; May 18; v. 274; p. 563.

Thorpe, Walter, Mount Vernon, N. Y., assignor to The Electric Phonograph Corporation, New York, N. Y. Phonograph. No. 55,217; May 18; v. 274; p. 563.

Torgeson, Clara, Radium, Minn. Serving-plate. No. 55,218; May 18; v. 274; p. 563.

United States Glass Company. See Haley, Reuben, assignor.)

Van Bergh Silver Plate Company, The. (See Leavenworth, Seth H., assignor.)

Wallace, R., & Sons Mfg. Co. (See Talbot, Vernon, assignor.)

Warner Brothers Company, The. (See Warner, D. C., and Langhammer, assignors.)

Warner, De Ver C., and Frank L. Langhammer, assignors to The Warner Brothers Company, Bridgeport, Conn. Brassière-hook. No. 55,219; May 18; v. 274; p. 563.

Weber, Jacob H., Brooklyn, N. Y. Phonograph-cabinet. No. 55,220; May 18; v. 274; p. 564.

Weeks, Frank A., Plainfield, N. J. Loose-leaf-pad-calendar holder. No. 55,221; May 18; v. 274; p. 564.

Wentz, Jere L., Passaic, N. J. Dish or receptacle. No. 55,222; May 18; v. 274; p. 564.

Wescott, Fred A., Corning, N. Y. Motor-vehicle signal. Nos. 55,223–4; May 18; v. 274; p. 564.

Williamson, Richard L., Oakland, Calif. Tractor. No. 55,225; May 18; v. 274; p. 564.

Wolper, Harry B., assignor to Nightingale Manufacturing Company, Chicago, Ill. Talking-machine cabinet. Nos. 55,226–7; May 18; v. 274; p. 565.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams & Westlake Company, The, Chicago, Ill. Electrical apparatus. No. 131,393; May 18; v. 274; p. 601.

Aktiebolaget Gyro, Stockholm, Sweden. Machine tools, transmission-gears, and parts thereof. No. 131,474; May 18; v. 274; p. 603.

Albany Chemical Company, Albany, N. Y. Aspirin and photo-engraving chemicals. No. 131,392; May 18; v. 274; p. 601.

Albany Chemical Company, Albany, N. Y. Fluid for priming and starting internal-combustion engines. No. 131,394; May 18; v. 274; p. 601.

American Aniline Products, Inc., New York, N. Y. Dyes. No. 131,395; May 18; v. 274; p. 601.

American Cotton Oil Company, The, Union township, Hudson county, N. J., and New York, N. Y. Edible vegetable-oil. No. 131,396; May 18; v. 274; p. 601.

American Fire Prevention Bureau, New York, N. Y. Thermostatically-operated electric switches. No. 131,397; May 18; v. 274; p. 601.

American Paper Exports, Inc., New York, N. Y. Writing, printing, and wrapping papers and mailing-envelops. No. 131,398; May 18; v. 274; p. 601.

American Piano Company, New York, N. Y. Pianos. No. 131,399; May 18; v. 274; p. 601.

American Pure Food Process Co., Baltimore, Md. Jar-capping machines. No. 131,400; May 18; v. 274; p. 601.

American Tool & Machine Co., Boston, Mass. Machinery and tools. No. 131,402; May 18; v. 274; p. 601.

American Stores Company, Philadelphia, Pa. Ginger-ale, sarsaparilla, and root-beer. No. 131,401; May 18; v. 274; p. 601.

American Webbing Manufacturers Export Corporation, New York, N. Y. Elastic and non-elastic webbings. No. 131,403; May 18; v. 274; p. 601.

Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, scoops. No. 131,404; May 18; v. 274; p. 601.

Arrow Products Co., Peoria, Ill. Non-alcoholic non-intoxicating maltless non-cereal beverage-punch. No. 131,405; May 18; v. 274; p. 601.

Bake-Rite Oven Mfg. Company, San Francisco, Calif. Bread-making machinery and accessories. No. 131,407; May 18; v. 274; p. 601.

Baum & Schoel, Waterloo, Iowa. Doughnut-machines. No. 131,409; May 18; v. 274; p. 601.

Bee Bee Confection Company, The, Dayton, Ohio. Chewing-gum. No. 131,410; May 18; v. 274; p. 601.

Benton, Theodore, Roff, Okla. Blight-exterminator. No. 131,411; May 18; v. 274; p. 601.

Black Swan Company, Waseca, Minn. Electric-lighting plants. No. 131,412; May 18; v. 274; p. 601.

Blue Bird Manufacturing Company, St. Louis, Mo. Dish-washing and sewing machines. No. 131,413; May 18; v. 274; p. 601.

Boedeker & Co., Cincinnati, Ohio. Beverage, non-alcoholic. No. 131,414; May 18; v. 274; p. 601.

Bonat, Samuel & Bro., New York, N. Y. Hair-nets. No. 131,415; May 18; v. 274; p. 601.

Bong, C. Harry, Chicago, Ill. Lotions for soothing and treating irritations of the skin. No. 131,416; May 18; v. 274; p. 601.

Bosch, Herman J., New York, N. Y. Nail-polish, brilliantine, and cuticle-cream. No. 131,418; May 18; v. 274; p. 601.

Boyce Extract Co., Inc., New York, N. Y. Non-intoxicating beverage. No. 131,419; May 18; v. 274; p. 601.

Brewster-Goldsmith Corp, Inc., The, New York, N. Y. Spark-plugs. No. 131,420; May 18; v. 274; p. 601.

Bridgeport Brass Company, Bridgeport, Conn. Bronze ingots, castings, rods, &c. No. 131,421; May 18; v. 274; p. 602.

California Wine Association, San Francisco, Calif. Grape-juice. No. 131,422; May 18; v. 274; p. 602.

Carell, Western L., Omaha, Nebr. Medical compound for the treatment of syphillis. No. 131,423; May 18; v. 274; p. 602.

Carreras, Alfonso, London, England. Tooth-paste. No. 131,424; May 18; v. 274; p. 602.

Catterlin Francis J., Long Beach, Calif. Non-alcoholic non-cereal maltless beverage. No. 131,425; May 18; v. 274; p. 602.

Celro-Kola Co., Portland, Oreg. Non-alcoholic beverage. No. 131,426; May 18; v. 274; p. 602.

Century Rubber Stamp Works, New York, N. Y. Rubber stamps, hand stamping and marking devices. No. 131,427; May 18; v. 274; p. 602.

Chill-O Company, Chicago, Ill. Non-alcoholic non-intoxicating maltless non-cereal beverage. No. 131,430; May 18; v. 274; p. 602.

Childs, W. H., & Son, New York, N. Y. Cotton, linen, silk, &c., piece goods and velvets and velveteens in the piece. Nos. 131,428–9; May 18; v. 274; p. 602.

Clayton Chemical Co., New York, N. Y. A preparation for the relief of inflammation and pain by cutaneous absorption. No. 131,431; May 18; v. 274; p. 602.

Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. No. 131,479; May 18; v. 274; p. 603.

Collier, J. Homer, Dawson, Ga. Liquid aspirin. No. 131,432; May 18; v. 274; p. 602.

Colorado Milling & Elevator Co., The, Denver and Pueblo, Colo. Wheat-flour. No. 131,433; May 18; v. 274; p. 602.

Community Motion-Picture Bureau, New York, N. Y. Motion-picture films. No. 131,434; May 18; v. 274; p. 602.

Consolidated Sales Company, Centralia, Mo. Garden preparation for killing bugs, worms, and vermin. No. 134,435; May 18; v. 274; p. 602.

Cormond, Francois, San Francisco, Calif. Bleaching fluid. No. 131,437; May 18; v. 274; p. 602.

Corning Glass Works, Corning, N. Y. Condensing-lenses for projecting apparatus. No. 131,436; May 18; v. 274; p. 602.

Coss, John H., Mansfield, Ohio. Sleves and chaffers for use in threshing-machines. No. 131,438; May 18; v. 274; p. 602.

Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, sheets, &c. No. 131,439; May 18; v. 274; p. 602.

Daski, Peter, Ottawa, Canada. Hair-tonic. No. 131,440; May 18; v. 274; p. 602.

Day, Horace L., Company, New York, N. Y. Sugar. No. 131,441; May 18; v. 274; p. 602.

Deutsche Conservierungsgeselischaft mit beschrankter Haftung, Marienfelde, near Berlin, Germany. Preservative compound for preserving articles of food. No. 131,444; May 18; v. 274; p. 602.

Derby, John H., Rockledge, Fla. Citrus fruits and avocados. No. 131,442; May 18; v. 274; p. 602.

Detroit Twist Drill Co., Detroit, Mich. Drills. No. 131,443; May 18; v. 274; p. 602.

Dinstman & Lasko, Inc., New York, N. Y. Watchcases. No. 131,445; May 18; v. 274; p. 602.

Divine, Dwight, & Sons, Ellenville, N. Y. Knives. No. 131,448; May 18; v. 274; p. 602.

Duffy, Leinster, New Bern, N. C. Medicinal remedy for chills, fevers, colds, &c. No. 131,446; May 18; v. 274; p. 602.

Durling, Calvin J., Trenton, N. J. Ointment for lung congestion, croup, &c. No. 131,447; May 18; v. 274; p. 602.

East Iron & Machine Co., The, Lima, Ohio. Mixing, kneading, and masticating machines. No. 131,450; May 18; v. 274; p. 602.

Electric Lamp & Products Co., Jersey City, N. J. Electric-lamp products. No. 131,451; May 18; v. 274; p. 603.

Embalmers' Supply Company, Westport, Conn. Embalming fluid. No. 131,453; May 18; v. 274; p. 603.

Equinox Mountain Spring, Inc., New York, N. Y. Ginger-ale. No. 131,454; May 18; v. 274; p. 603.

Essex Aniline Works, Inc., Boston, Mass. Dyestuffs. No. 131,455; May 18; v. 274; p. 603.

Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engines. No. 131,456; May 18; v. 274; p. 603.

Farmer Bros., Los Angeles, Calif. Coffee, tea, spices, and flavoring extracts of pure vanilla, &c. No. 131,457; May 18; v. 274; p. 603.

Farmer, Thomas, Jr., New York, N. Y. Speedometers. No. 131,458; May 18; v. 274; p. 603.

Fats and Oils Service Company, Philadelphia, Pa. Vegetable and animal oils and fats. No. 131,459; May 18; v. 274; p. 603.

Fessler, William R., Kansas City, Kans. Pharmaceutical preparation. No. 131,460; May 18; v. 274; p. 603.

Fingl, Anton W., Chicago, Ill. Liniments. No. 131,461; May 18; v. 274; p. 603

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 131,462–3; May 18; v. 274; p. 603.

Frankenstein, Henry, New York, N. Y. Device for cleaning bristle brushes and brooms. No. 131,464; May 18; v. 274; p. 603.

Frolong, Lena, Oakland, Calif. Salve for the feet. No. 131,465; May 18; v. 274; p. 603.

Fruit Valley Corporation, Rochester, N. Y. Concentrated syrup and non-alcoholic beverage made from same. No. 131,466; May 18; v. 274; p. 603.

Fukuhara, Shinzo, Tokyo, Japan. Toilet preparations. No. 131,467; May 18; v. 274; p. 603.

Geary, Thomas, Chicago, Ill. Tonic for the treatment of general debility, &c. No. 131,468; May 18; v. 274; p. 603.

George Borgfeldt & Co., New York, N. Y. Toilet powder. No. 131,417; May 18; v. 274; p. 601.

Gets Manufacturing Company, Andrews, Ind. Spark-plugs. No. 131,469; May 18; v. 274; p. 603.

Gray, Frank A., Kansas City, Mo. Powder to be used in making a face-cream. No. 131,471; May 18; v. 274; p. 603.

Groetsch, Jules, New Orleans, La. Non-alcoholic beverage and syrup for making same. No. 131,472; May 18; v. 274; p. 603.

Grossenbacher, John G., Apopka, Fla. Insecticides. No. 131,473; May 18; v. 274; p. 603.

Haas Brothers Fabrics' Corporation, New York, N. Y. Piece goods composed of silk. No. 131,475; May 18; v. 274; p. 603.

Haas Brothers Fabrics' Corporation, New York, N. Y. Piece goods composed of cotton. No. 131,476; May 18; v. 274; p. 603.

Habicht and Company, New York, N. Y. Shelled nuts and unshelled nuts in their natural state and dried fruits. No. 131,478; May 18; v. 274; p. 603.

Haloid Company, The, Rochester, N. Y. Photographic and developing papers. No. 131,480; May 18; v. 274; p. 603.

Hammondsport Products Co. Inc., Hammondsport, N. Y. Grape juice. No. 131,481; May 18; v. 274; p. 603.

Hampton, James, Detroit, Mich. Salve for eczema. No. 131,482; May 18; v. 274; p. 604.

Handley Page Limited, Cricklewood, London, England. Engines and compressed-air motors. No. 131,569; May 18; v. 274; p. 606.

Harbor City Canning Company, Harbor City, Calif. Canned fruits. No. 131,483; May 18; v. 274; p. 604.

Harris, Chas. A., Dawson, Ga. Blood remedy. No. 131,484; May 18; v. 274; p. 604.

Hartman Company, The, Chicago, Ill. Saw-frames and sawing outfits, certain named feed-cutters, &c. No. 131,485; May 18; v. 274; p. 604.

Hawkins, Glover R., Lexington, Mo. Hair-grower, pressing-oil, temple-oil, and hair dye. No. 131,486; May 18; v. 274; p. 604.

H-B. Tempering Process Co., Clearbrook, Minn. Composition for tempering steel or other metals. No. 131,477, May 18; v. 274; p. 603.

Hebb Motors Company, Lincoln, Nebr. Tractors. No. 131,487; May 18; v. 274; p. 604.

Heide, Henry, Incorporated, New York, N. Y. Marshmallow candies and confection. No. 131,488; May 18; v. 274; p. 604.

Hill Insulating & Manufacturing Corporation, New York, N. Y. Spark-plugs. No. 131,489; May 18; v. 274; p. 604.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 131,490; May 18; v. 274; p. 604.

Holt Manufacturing Company, Stockton, Calif. Internal-combustion engines. No. 131,491; May 18; v. 274; p. 604.

Holton & Adams, New York, N. Y. Preparation for cleansing and beautifying the skin. No. 131,492; May 18; v. 274; p. 604.

Home Distributing Co., St. Louis, Mo. Non-alcoholic beverage. No. 131,493; May 18; v. 274; p. 604.

Hovermale, Howard B., Brunswick, Md. Laxative tablet. No. 131,494; May 18; v. 274; p. 604.

Hunt, Philip A., Company, New York, N. Y. Gold, metal, and composition leaf. No. 131,495; May 18; v. 274; p. 604.

Hunter, Frances E., Dallas, Tex. Lung medicine. No. 131,496; May 18; v. 274; p. 604.

Hygeia Beverage Co., Natick, Mass. Non-alcoholic beverages and syrups. No. 131,497; May 18; v. 274; p. 604.

Hyman Bauman & Co., New York, N. Y. Handkerchiefs. No. 131,408; May 18; v. 274; p. 601.

Imperial Electrical Co., Union City, Ind. Electric milk and cream testers. No. 131,498; May 18; v. 274; p. 604.

India Refining Company, Philadelphia, Pa. Cocoanut oil. No. 131,499; May 18; v. 274; p. 604.

International Conduit Corporation, New York, N. Y. Conduits and fittings. No. 131,500; May 18; v. 274; p. 604.

International Manufacturing Company of Texas, Dallas, Tex. Butter-churns and parts thereof. No. 131,501; May 18; v. 274; p. 604.

Intravenous Products Company, The, Denver, Colo. Preparations used for intramuscular, intravenous, subcutaneous, or local administration. No. 131,502; May 18; v. 274; p. 604

Italian Food Products Co., Los Angeles, Calif. Canned tomatoes, tomato paste, canned string-beans, &c. No. 131,503; May 18; v. 274; p. 604.

Jacknowitz, Charles, Union Hill, N. J. Liquid eyeglass-cleaner. No. 131,505; May 18; v. 274; p. 604.

Jackson Brewing Company, New Orleans, La. Non-alcoholic maltless cereal beverages. No. 131,504; May 18; v. 274; p. 604.

Jasmine Ink Corporation, Norfolk, Va. Condensed ink. No. 131,506; May 18; v. 274; p. 604.

Jennings Manufacturing Company, Grand Rapids, Mich. Perfumery, toilet water, face and talcum powder, and face-cream. No. 131,507; May 18; v. 274; p. 604.

Jetter Beverage Company, Omaha, Nebr. Cereal malt beverage. No. 131,508; May 18; v. 274; p. 604.

Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 131,509; May 18; v. 274; p. 604.

Kansas Book Dealers Association. (See Lee, H. D., Mercantile Co., The, assignor.)

Kaye, Harry, Yonkers, N. Y. Insect-powder. No. 131,511; May 18; v. 274; p. 605.

Keasbey & Mattison Company, Ambler, Pa. Medicinal preparation for headache and nervous diseases. No. 131,512; May 18; v. 274; p. 605.

Keasbey & Mattison Company, Ambler, Pa. Medicinal remedy for colds and malaria. No. 131,514; May 18; v. 274; p. 605.

Keasbey & Mattison Company, Ambler, Pa. Preparation for rheumatism and cystitis. No. 131,513; May 18; v. 274; p. 605.

Keeps-Fresh Electric Bakeries, Chicago, Ill. Electric ovens. No. 131,515; May 18; v. 274; p. 605.

Kenyon, John, & Co. (Sheffield,) Limited, Sheffield, England. Iron and steels. Nos. 131,516–18; May 18; v. 274; p. 605.

Klausner, Samuel, Chicago, Ill. Non-alcoholic beverage and syrup for making same. No. 131,519; May 18; v. 274; p. 605.

Klebanoff, David, Philadelphia, Pa. Remedy for la grippe, colds and headache. No. 131,520; May 18; v. 274; p. 605.

Klima, Louis, New York, N. Y. Bloater paste, anchovy paste, sardine paste, &c. No. 131,521; May 18; v. 274; p. 155.

Kohnstamm, H. & Co., New York, N. Y. Starch for laundry purposes and in treating textiles. No. 131,522; May 18; v. 274; p. 605.

Lafferty, Herbert D., Oakland, Calif. Force-feed oilers. No. 131,523; May 18; v. 274; p. 605.

Lambert, A. W., Jr., & Company, St. Louis, Mo. Soaps. No. 131,524; May 18; v. 274; p. 605.

Lamson and Goodnow Manufacturing Company, Shelburne Falls, Mass. Steel knives. No. 131,528; May 18; v. 274; p. 605.

Lanman & Kemp, New York, N. Y. Aniline colors, dry and liquid dye-colors, dyes, and dyestuffs. No. 131,526; May 18; v. 274; p. 605.

Laporte, Ernest W., New Orleans, La. Non-alcoholic beverages and flavoring syrups. No. 131,525; May 18; v. 274; p. 605.

Lathrop, H. R., & Co., New York, N. Y. Haarlem oil for kidney, liver, bladder, rheumatism, and uric-acid troubles. No. 131,527; May 18; v. 274; p. 605.

Lee, H. D., Mercantile Co., The, Salina, Kans., and Kansas City, Mo., assignors to Kansas Book Dealers Association. Writing-tablets. No. 131,529; May 18; v. 274; p. 605.

Lele I, George, Hancock, N. Y. Heave remedy for horses. No. 131,530; May 18; v. 274; p. 605.

Lennon, John F., Providence, R. I. Wheat-flour. No. 131,531; May 18; v. 274; p. 605.

Lewis, Florence N., New York, N. Y. Cake face-powder. No. 131,532; May 18; v. 274; p. 605.

Liebich G. J., Co., Chicago, Ill. Paints and painters' materials. No. 131,533; May 18; v. 274; p. 605.

Lilly, Eli & Co., The, Indianapolis, Ind. Disinfectant and germicide preparation. No. 131,452; May 18; v. 274; p. 603.

Locomotive Pulverized Fuel Company, New York, N. Y. Engines, locomotives, and their parts, motors, &c. No. 131,534; May 18; v. 274; p. 605.

London 'O-T' Limited, Blackfriars, London, England, and Prahran, Victoria, Australia. Lemon-squash and lime-juice. No. 131,536; May 18; v. 274; p. 605.

Longhorn Drilling & Development Association, Fort Worth, Tex. Well-drilling machinery and tools and well equipment. No. 131,537; May 18; v. 274; p. 605.

Lopez, V., & Company, Inc., New York, N. Y. Butter. No. 131,535; May 18; v. 274; p. 605.

Lorenz Company, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio. Perfumes, tooth and toilet powders, &c. No. 131,538; May 18; v. 274; p. 605.

Lorenz Company, The, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio. Toilet lotion. No. 131,539; May 18; v. 274; p. 606.

Lorenz Company, The, Everett, Mass. Tooth and foot powders. No. 131,540; May 18; v. 274; p. 606.

Lundborg Company, The, New York, N. Y. Perfume, toilet water, face-powder, toilet cream, and sachet. No. 131,541; May 18; v. 274; p. 606.

Lydon Manufacturing Co., Chicago, Ill. Spark-plugs. No. 131,542; May 18; v. 274; p. 606.

Malone & Hyde, Memphis, Tenn. Castor-oil, epsom salts, and sulfur. No. 131,545; May 18; v. 274; p. 606.

Mangos, Constantine G., Davenport, Iowa. Carbonated water. No. 131,546; May 18; v. 274; p. 606.

Mann, Alexander S., Providence, R. I. Liquid antiseptic. No. 131,547; May 18; v. 274; p. 606.

Manufacturers Textile Co. Inc., New York, N. Y. Cotton, wool, silk, and linen piece goods. No. 131,548; May 18; v. 274; p. 606.

Martin, C. J., Austin, Tex. Worm-exterminator. No. 131,549; May 18; v. 274; p. 606.

Mazzone, Salvatore, Brooklyn, N. Y. Remedy for rheumatism and sciatica. No. 131,550; May 18; v. 274; p. 606.

McDougall Brothers, Limited, Manchester, England. Insecticides. No. 131,543; May 18; v. 574; p. 606.

McLaughlin, Wallace D., Fort Scott, Kans. Seed-planting attachments for hoes, &c. No. 131,544; May 18; v. 274; p. 606.

Mennel Milling Company, Toledo, Ohio. Wheat-flour. No. 131,551; May 18; v. 274; p. 606.

Merrell, William S., Company, Cincinnati, Ohio. Compound and ointment of iodin and oil. No. 131,552; May 18; v. 274; p. 606.

Metz, Herman A., New York, N. Y. Dyestuffs and chemicals. No. 131,553; May 18; v. 274; p. 606.

Mirete Ayala, Angel, Madrid, Spain. Solder for aluminium. No. 131,406; May 18; v. 274; p. 601.

Morcott Co., Inc., New York, N. Y. Piece goods of cotton, silk, and silk and cotton mixtures. No. 131,554; May 18; v. 274; p. 606.

Morey, Robert G., North Prairie, Wis. Sweetened condensed milk and unsweetened evaporated milk. No. 131,555; May 18; v. 274; p. 606.

Moses Eadon & Sons, Limited, Sheffield, England. Steel. No. 131,449; May 18; v. 274; p. 602.

Murdock, C. A., Mfg. Co., Kansas City, Mo. Laundry bluing. No. 131,556; May 18; v. 274; p. 606.

Mosher & Company, Incorporated, New York, N. Y.; Baltimore, Md.; San Diego, Calif., and Washington, D. C. Cured and preserved fish, edible virgin vegetable oils, &c. No. 131,557; May 18; v. 274; p. 606.

National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 131,558–61; May 18; v. 274; p. 606.

National Tube Company, Pittsburgh, Pa. Metal pipe-couplings, pipes, tubes, and casings. No. 131,562; May 18; v. 274; p. 606.

Nayberger, Joseph B., McMinnville, Oreg. Hair-tonic. No. 131,563; May 18; v. 274; p. 606.

New England Enameling Company, Middletown, Conn. Metal ware. No. 131,564; May 18; v. 274; p. 606.

Nitrate Agencies Company, New York, N. Y. Insecticides. No. 131,565; May 18; v. 274; p. 606.

Nordham, Ivan B., Company, New York, N. Y. Bread. No. 131,566; May 18; v. 274; p. 606.

Ogur, Eugene, Jersey City, N. J. Shampoo and hair-tonic. No. 131,567; May 18; v. 274; p. 606.

Oro-Tone Co., The, Chicago, Ill. Phonographs and sound-boxes and tone-arms for same. No. 131,568; May 18; v. 274; p. 606.

Paristyle Novelty Co., Inc., New York, N. Y. Hair-nets. No. 131,570; May 18; v. 274; p. 606.

Parker, Frederick R., Chicago, Ill. Cold-cream. No. 131,571; May 18; v. 274; p. 607.

Pearl City Fruit Co. Ltd., Honolulu, Hawaii. Pineapple-extract syrup. No. 131,572; May 18; v. 274; p. 607.

Peppas, Vasili, Braddock, Pa. Salve for wounds, sores, &c. No. 131,573; May 18; v. 274; p. 607.

Pepsotone Company, Huntington, W. Va. Medicated oil for certain named affections and diseases. No. 131,574; May 18; v. 274; p. 607.

Peters, Arnold B., San Francisco, Calif. Tooth-powder. No. 131,575; May 18; v. 274; p. 607.

Pettijohn Pure Products Co., Minneapolis, Minn. Wheat pancake-flour, parched bran, Indian mixture, &c. No. 131,576; May 18; v. 274; p. 607.

Philo Derma Company, Chicago, Ill. Cosmetics. No. 131,577; May 18; v. 274; p. 607.

Pratt & Lambert—Inc., Buffalo, N. Y. Aeroplane-dope (a preparation for coating, shrinking, and filling the cloth wings of aeroplanes). No. 131,580; May 18; v. 274; p. 607

Pratt, Milan F., Rochester, N. Y. Remedies to correct an acid condition of the stomach. No. 131,578; May 18; v. 274; p. 607.

Precision Instrument Company, Detroit, Mich. Measuring and scientific appliances. No. 131,579; May 18; v. 274; p. 607.

Prince Lauten Co., New York, N. Y. Cotton goods in the piece. No. 131,581; May 18; v. 274; p. 607.

Pure Beverage Company, Toledo, Ohio. Non-alcoholic beverage. No. 131,582; May 18; v. 274; p. 607.

Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 131,583; May 18; v. 274; p. 607.

Quinebaug Company, Danielson, Conn. Piece goods—ramely, shirtings. No. 131,584; May 18; v. 274; p. 607.

Radium Luminous Material Corporation, New York, N. Y. Luminous material. No. 131,585; May 18; v. 274; p. 607.

Rainier Products Company, Seattle, Wash. Birch and root beer, sarsaparilla, ginger-ale, and cider. No. 131,587; May 18; v. 274; p. 607.

Rand, Donald A., Stoughton, Mass. Chocolates. No. 131,586; May 18; v. 274; p. 607.

Remiller Company, The, New York, N. Y. Toilet preparations. No. 131,588; May 18; v. 274; p. 607.

Rhodenbaugh, Isaiah F., Fort Wayne, Ind. Preparation for use in the treatment of piles. No. 131,590; May 18; v. 274; p. 607.

Rice-Stix Goods Company, St. Louis, Mo. Woven elastics in the piece. No. 131,592; May 18; v. 274; p. 607.

Richardson-Phenix Co., The, Milwaukee, Wis. Mechanical lubricators and oiling devices. No. 131,589; May 18; v. 274; p. 607.

Richter, F. Ad. & Co., New York, N. Y. Liniment. Nos. 131,593–4; May 18; v. 274; p. 607.

Richter, F. Ad. & Co., New York, N. Y. Medicinal preparations. No. 131,595; May 18; v. 274; p. 607.

Robert, Joseph, Paris, France. Medicinal preparations. No. 131,596; May 18; v. 274; p. 607.

Rohm & Haas Company, Philadelphia, Pa. Anhydrous sodium hydrosulfite. No. 131,598; May 18; v. 274; p. 607.

Rohm & Haas Company, Philadelphia, Pa. Chemical used for tanning hides. No. 131,599; May 18; v. 274; p. 607.

Rohm & Haas Company, Philadelphia, Pa. Sulfoxalate of sodium formaldehyde. No. 131,600; May 18; v. 274; p. 608.

Rudd, Anne H., St. Louis, Mo. Pharmaceutical preparations. No. 131,601; May 18; v. 274; p. 608.

Rye-Ola Company, Birmingham, Ala. Ginger-ale. No. 131,602; May 18; v. 274; p. 608.

Sh-h! Company, New York, N. Y. Non-alcoholic beverages. No. 131,591; May 18; v. 274; p. 607.

Saberton Mfg. Co., Tampa, Fla. Medicated soap. No. 131,603; May 18; v. 274; p. 608.

Sampson, Archibald T., Lynn, Mass. Electric conduits, lighting and power fixtures. No. 131,604; May 18; v. 274; p. 608.

Sanitary Engineering Company, Charlotte, N. C. Septic tanks. No. 131,605; May 18; v. 274; p. 608.

Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage. No. 131,606; May 18; v. 274; p. 608.

Schlesinger, Richard M., New Athens, Ill. Ginger-ale. No. 131,618; May 18; v. 274; p. 608.

Schmid, Julius, Incorporated, New York, N. Y. Face-powders, talcum powder, compacts, lip-salve, &c. No. 131,607; May 18; v. 274; p. 608.

Schwab, Jules, & Co., New York, N. Y. Bead and metal bags, beaded sautoirs, necklaces. No. 131,608; May 18; v. 274; p. 608.

Schwarz, Max, New York, N. Y. Voiles in the piece. No. 131,619; May 18; v. 274; p. 608.

Sentanel Remedies Company, The, Cincinnati, Ohio. Laxative preparation. No. 131,610; May 18; v. 274; p. 608.

Seydel Manufacturing Company, Jersey City, N. J. Sizing and finishing compounds for textile fabrics and threads. No. 131,609; May 18; v. 274; p. 608.

Sharpe & Dohme, Baltimore, Md. Alkaline antiseptic suppositories. No. 131,611; May 18; v. 274; p. 608.

Sheep and Cattle Men's Supply Manufacturing Company, Cheyenne, Wyo., and Salt Lake City, Utah. Live-stock-dipping powder and fluid. No. 131,620; May 18; v. 274; p. 608.

Shields, John D., Chaplin, Ky. Veterinary medicine for outward application. No. 131,612; May 18; v. 274; p. 608.

Shutter Johnson Candy Co., Chicago, Ill. Candies. No. 131,510; May 18; v. 274; p. 604.

Siegle, G., Company, Rosebank, assignor to G. Siegle Corporation of America, New York, N. Y. Colors for a combination of uses. No. 131,621; May 18; v. 274; p. 608.

Siegle, G., Corporation of America. (See Siegle, G., Company, assignor.)

Silverman, Eugene J., Akron, Ohio. Finger-rings and broaches. No. 131,613; May 18; v. 274; p. 608.

Singer, Julius S., Chicago, Ill. Dyes in soap form. No. 131,614; May 18; v. 274; p. 608.

Sizer, Forge Company, Buffalo, N. Y. Steel forgings. No. 131,622; May 18; v. 274; p. 608.

Skowbo Co., The, Spokane, Wash. Liquid face-cream. No. 131,615; May 18; v. 274; p. 608.

Slim, Pedro, Mexico, Mexico. Snap-fasteners. No. 131,623 May 18; v. 274; p. 608.

Société Industrielle des Specialites Techniques S. A., Emmenbrücke-Lucerne, Switzerland. Mechanical razor-stroppers. No. 131,624; May 18; v. 274; p. 608.

Société Rodier, Paris, France. Textile fabrics. No. 131,597; May 18; v. 274; p. 607.

Southern Sales Corporation, New York, N. Y. Caustic soda, chlorid of lime, &c. No. 131,625; May 18; v. 274; p. 608.

Speight, Walter E., Jacksonville, Fla. Preparation used as a tonic for chills and fever. No. 131,616; May 18; v. 274; p. 608.

Spencer, Sally M., Chicago, Ill. Cleaning preparation for fabrics. No. 131,617; May 18; v. 274; p. 608.

Standard Chemical Works, Reading, Pa. Combined insecticide and fungicide. Nos. 131,626–7; May 18; v. 274; p. 608.

Standard Products Supply Co., Minneapolis, Minn. Honey, peanut-butter, and ice-cream cones. No. 131,628; May 18; v. 274; p. 608.

Standard Union Company, Augusta, Me., and Boston, Mass. Pipe joints or couplings. No. 131,629; May 18; v. 274; p. 608.

Star Oil Company, Chicago, Ill. Automobile dynamo, crank-case &c., lubricating oils and greases. No. 131,630; May 18; v. 274; p. 608.

Sue, Narm S., Modesto, Calif. Medicinal preparation for the treatment of influenza. No. 131,631; May 18; v. 274; p. 609.

Swift and Company, Chicago, Ill. Hog feed. No. 131,632; May 18; v. 274; p. 609.

Symington, T. H., Company, The, New York and Rochester N. Y. Malleable castings. No. 131,633; May 18; v. 274; p. 609.

Tanner, W. P., Gross & Company, Inc., New York, N. Y. Wheat-flour. No. 131,634; May 18; v. 274; p. 609.

Theodoropoulos, Alexander, New York, N. Y. Ointment for piles. No. 131,635; May 18; v. 274; p. 609.

Thom, Charles H., Los Angeles, Calif. Bottled carbonated non-alcoholic non-cereal maltless beverage. No. 131,636; May 18; v. 274; p. 609.

Thomison, Victoria, Jacksonville, Fla. Preparation for destroying boll-weevils, &c. No. 131,637; May 18; v. 274; p. 609.

Thornton Mineral Springs Company, Thornton, Ill. Non-alcoholic beverages and syrups for making same. No. 131,638; May 18; v. 274; p. 609.

Thrill Exploiting Co., The, Philadelphia, Pa. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 131,639; May 18; v. 274; p. 609.

Tramontin, Amelia, Derrossburg, Pa. Healing-salve composition for the treatment of varicose veins, &c. No. 131,640; May 18; v. 274; p. 609.

Traster, Roy C., Kansas City, Mo. Confection containing a laxative ingredient. No. 131,641; May 18; v. 274; p. 609.

Tucker, John T., Chattanooga, Tenn. Salve used in the treatment of colds, coughs, sore throat, &c. No. 131,642; May 18; v. 274; p. 609.

Turner & Walls, New York, N. Y. Broadcloth. No. 131,644; May 18; v. 274; p. 609.

Turner Manufacturing Company, Port Washington, Wis. Tractors. No. 131,643; May 18; v. 274; p. 609.

U. S. Industrial Alcohol Co., New York, N. Y. Fusel-oil or amyl alcohol, denatured alcohol, cologne-spirits. No. 131,652; May 18; v. 274; p. 609.

Underwood Typewriter Company, New York, N. Y. Typewriting-machines. No. 131,645; May 18; v. 274; p. 609.

Ungerer & Company, Inc., New York, N. Y. Resins and volatile oils for imparting scent to toilet preparations. No. 131,646; May 18; v. 274; p. 609.

Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Wrapping-papers. No. 131,647; May 18; v. 274; p. 609.

Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 131,648; May 18; v. 274; p. 609.

Union Metal Manufacturing Company, Canton, Ohio. Metal foundry-flasks, bottom boards for same, core-plates. No. 131,649; May 18; v. 274; p. 609.

United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. No. 131,650; May 18; v. 274; p. 609.

United States Color and Chemical Company, Boston, Mass. Anilin dyes, dye-colors, and color-bases. No. 131,651; May 18; v. 274; p. 609.

Urego Chemical Laboratories, Omaha, Nebr. Skin preparations for certain purposes. No. 131,653; May 18; v. 274; p. 609.

Usit Manufacturing Co. of America Inc., Buffalo, N. Y. Preparation for treating eyes. No. 131,654; May 18; v. 274; p. 609.

Valentin, Ord & Co., Limited, Hayes, England. Artificial mineral water. No. 131,655; May 18; v. 274; p. 609.

Vandervoer, Jean J., Brattleboro, Va. Book-marks. No. 131,656; May 18; v. 274; p. 609.

Vasold Brothers, Midland, Mich. Butter. No. 131,657; May 18; v. 274; p. 609.

Velvoto Company, Grand Rapids, Mich. Cold-cream. No. 131,658; May 18; v. 274; p. 609.

Vermilion Malleable Iron Company, Chicago, Ill. Malleable-iron castings. No. 131,659; May 18; v. 274; p. 609.

Vernon, Ezekiel J., Vancouver, Canada. Medical compound for the treatment of typhoid fever, sciatica, &c. No. 131,660; May 18; v. 274; p. 609.

Viduseck, Andrew, Bellevue, Pa. Hair-salve. No. 131,661; May 18; v. 274; p. 609.

Vivandou, Victor, New York, N. Y. Deodorants. No. 131,662; May 18; v. 274; p. 610.

Vulcan Plow Co., The, Evansville, Ind. Tools and machinery. No. 131,663; May 18; v. 274; p. 610.

Wa-Ba-Va-Nes-Ta Medicine & Drug Co., Bay City, Mich. Medicine used in the treatment of certain named diseases. No. 131,664; May 18; v. 274; p. 610.

Walter-William Therapeutic Laboratories, Inc., New York, N. Y. Preparations for the relief of constipation and other intestinal disorders of women. No. 131,673; May 18; v. 274; p. 610.

Walter-William Therapeutic Laboratories, Inc., New York, N. Y. Preparation for the treatment of dysmenorrhea, &c. No. 131,674; May 18; v. 274; p. 610.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 131,665; May 18; v. 274; p. 610.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 131,666; May 18; v. 274; p. 610.

Weber-Schiltz Candy Co., Milwaukee, Wis. Hard candies. No. 131,667; May 18; v. 274; p. 610.

Whistle Bottling Co., Norfolk, Va. Non-intoxicating maltless non-cereal beverages. No. 131,668; May 18; v. 274; p. 610.

Whittemore Brothers, Corporation, Cambridge, Mass. Leather-dressing. Nos. 131,669–71; May 18; v. 274; p. 610.

Williams Chocolate Co., Scranton, Pa. Candy. No. 131,672; May 18; v. 274; p. 610.

Wingate, Rosier B., Dallas, Tex. Non-alcoholic beverage and syrup for making same. No. 131,675; May 18; v. 274; p. 610.

Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Condensers. No. 131,676; May 18; v. 274; p. 610.

Wolf, Leo M., Crawfordsville, Ind. Medicine for use in the treatment of certain named diseases. No. 131,677; May 18; v. 274; p. 610.

Woodruff, Will R., Stanton, Nebr. Gas-pumps employing poisonous gases for killing gophers, &c. No. 131,678; May 18; v. 274; p. 610.

World Bottling Co. Ltd., New Orleans, La. Non-alcoholic non-cereal maltless beverages and syrups. No. 131,679; May 18; v. 274; p. 610.

York Haven Paper Company, The, Philadelphia, Pa. Wrapping-paper. No. 131,680; May 18; v. 274; p. 610.

Young, Frederick H., Toledo, Ohio. Toilet cream, face, talcum, and tooth powders. Nos. 131,681–2; May 18; v. 274; p. 610.

Zatyko, Paul, Divernon, Ill. Salve for sores, burns, &c. No. 131,683; May 18; v. 274; p. 610.

Zevely, Percival B., Pittsburgh, Pa. Liquid vegetable laxative. No. 131,684; May 18; v. 274; p. 610.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Pennsylvania Soap Company, The, Lancaster, Pa. "Soap Baby." (For Soap.) No. 21,869; May 18; v. 274; p. 612.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Accounting Machine Company, New York, N. Y. Memorandum-paper holders. No. 127,568; May 18; v. 274; p. 586.

Acme Packing Co., Chicago, Ill. Canned pork and beans, apple butter, jams, and jelly. No. 128,987; May 18; v. 274; p. 594.

Ades Products Corporation, Philadelphia, Pa. Food-flavoring extracts. No. 128,482; May 18; v. 274; p. 591.

Aero Products Company, The, Cleveland, Ohio. Carbureters. No. 129,438; May 18; v. 274; p. 595.

Aktiebolaget Ingeniorsfirman G. A. Lindstedt & Co., Stockholm, Sweden. Cutlery, machinery, and tools, and parts thereof. No. 115,377; May 18; v. 274; p. 569.

Alexanian, John G., Fort Wayne, Ind. Rug-cleaning compound. No. 120,863; May 18; v. 274; p. 573.

Alford, W. M., & Sons, New York, N. Y. Broad silks in the piece. No. 124,703; May 18; v. 274; p. 577.

Allen, Rena, Daytona, Fla. Medicine for ground-itch on children and sorehead on chickens. No. 126,982; May 18; v. 274; p. 585.

Altman, B. & Co., New York, N. Y. Soap. No. 128,583; May 18; v. 274; p. 592.

American Calculating Machine Co., The, New York, N. Y. Calculating-machines. No. 131,199; May 18; v. 274; p. 599.

American Device Manufacturing Company, St. Louis, Mo. Vacuum suction-pumps. No. 126,949; May 18; v. 274; p. 584.

American Seeding-Machine Company, The, Springfield, Ohio. Grain-drills, combined grain-drills and fertilizer-sowers, and broadcast fertilizer-sowers. No. 128,132; May 18; v. 274; p. 589.

American Writing Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 128,991; May 18; v. 274; p. 594.

American Writing Paper Company, Holyoke, Mass. Writing-paper and printing-paper. No. 128,992; May 18; v. 274; p. 594.

Anti-Bacilli Company, The, St. Louis, Mo. Mouthpiece attachments for the transmitters of telephones. No. 129,037; May 18; v. 274; p. 594.

Armour & Co., Chicago, Ill. Musical-instrument strings. Nos. 128,913–14; May 18; v. 274; p. 593.

Armour and Co., Chicago, Ill. Musical instrument strings. Nos. 129,366–7; May 18; v. 274; p. 595.

Armour Fertilizer Works, Chicago, Ill. Fertilizers. No. 127,026; May 18; v. 274; p. 585.

Arrow Brand Hemstitching & Tucking Co., The, New York, N. Y. Ladies' and misses' waists for outer wear. No. 128,588. May 18; v. 274; p. 592.

Atlantic Remedies Co., The, New York, N. Y. Medicines for stomach, bowel, liver, &c., and for the blood. No. 127,626; May 18; v. 274; p. 587.

Aubrey-Becker Sales Company, San Francisco, Calif. Cough candy, drops, and lozenges. No. 125,358; May 18; v. 274; p. 578.

Balsamea Co., The, San Francisco, Calif. Preparation for treating influenza, pneumonia, &c., prepared in the form of an ointment. No. 126,951; May 18; v. 274; p. 584.

Bartholomew, Roy L., Minneapolis, Minn. Tire-patch. No. 126,443; May 18; v. 274; p. 582.

Barton, Ernest L., Chester, S. C. Dress-shirts, negligée shirts, and soft collars. No. 127,999; May 18; v. 274; p. 588.

Batcheider, Inc. (See Davis, Emerson, assignor.)

Bau, José, Tortosa, Spain. Olive-oil. Nos. 116,875–7; May 18; v. 274; p. 571.

Beaver Refining Company, Pittsburgh, Pa. Gasolene, benzin, naphtha, fuel-oil, &c. No. 124,387; May 18; v. 274; p. 576.

Berger, Samuel, Newark, N. J. Sink-scoops. No. 124,928; May 18; v. 274; p. 577.

Bernsteen, David, Cleveland, Ohio. Liquid fiber roofing-cement. No. 115,238; May 18; v. 274; p. 569.

"Bestov" Manufacturing Co., Seattle, Wash. Electric cookers, toasters, ovens, &c. No. 130,406; May 18; v. 274; p. 598.

Bloch Chemical Company, Inc., The, New York, N. Y. Hair-nets. No. 128,072; May 18; v. 274; p. 588.

Boorum & Pease Co., New York, N. Y. Blank books, pads, and tablets. No. 126,953; May 18; v. 274; p. 585.

Briggs, Andrew G., Richmond, Va. Waxy preparation for polishing automobiles, furniture, and stained and hard-wood floors. No. 127,888; May 18; v. 274; p. 588.

British-American Tobacco Company, Limited, London, England. Cigarettes. No. 120,370; May 18; v. 274; p. 572.

Bromley-Merseles Mfg. Co., New York, N. Y. Dish-washing machines and metal-parts-washing machines. No. 124,134; May 18; v. 274; p. 576.

Burgan, Robert J., New York, N. Y. Paper patterns for making men's clothes. No. 124,879; May 18; v. 274; p. 577.

Burgess Battery Company, Madison, Wis. Electric batteries. No. 129,169; May 18; v. 274; p. 594.

Burns, Jabez, & Sons, New York, N. Y. Machinery and parts thereof for treating coffee, spices, &c. No. 125,217; May 18; v. 274; p. 578.

Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops, papeteries, and writing-tablets. No. 128,484; May 18; v. 274; p. 591.

Charleston Oil Company, Charleston, S. C. Lubricating-oil. No. 122,042; May 18; v. 274; p. 574.

Cheney, S., & Son, Manlius, N. Y. Stock-feed-grinding machines. No. 120,818; May 18; v. 274; p. 572.

Chesapeake Iron Works, Baltimore, Md. Cranes. No. 114,642; May 18; v. 274; p. 569.

Christoforides, John, London, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 123,512; May 18; v. 274; p. 575.

Clarke, Charles F., Madison, Wis. Feeding attachment for use with ordinary pens. No. 129,536; May 18; v. 274; p. 596.

Cohn, Goldwater Company, Los Angeles, Calif. Men's and boys' athletic underwear. No. 125,049; May 18; v. 274; p. 577.

Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 121,107; May 18; v. 274; p. 573.

Continental Castings Corp., New York, N. Y. Aluminum alloys. No. 125,603; May 18; v. 274; p. 579.

Cope-Walton Co., The, New York, N. Y. Hand-soap. No. 129,538; May 18; v. 274; p. 596.

Davis, Emerson, assignor to Batcheider, Inc., Concord, N. H. Candies. No. 121,660; May 18; v. 274; p. 573.

De Nordiske Fabriker, De-No-Fa Aktieselskab, Christiania, Norway. Refined and unrefined fats used in manufacture of ointments. No. 120,988; May 18; v. 274; p. 573.

De Palma, Frank, Brooklyn, N. Y. Shaving-cream. No. 128,558; May 18; v. 274; p. 591.

Dentrocide Chemical Co., The, Baltimore, Md. Tooth-paste. No. 126,762; May 18; v. 274; p. 583.

Dixie Fruit Products Corporation, New York, N. Y. Canned vegetables. No. 129,170; May 18; v. 274; p. 594.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. No. 123,617; May 18; v. 274; p. 575.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. No. 123, 619; May 18; v. 274; p. 575.

Douglas Paint Oil Co., Chicago, Ill. Linseed-oil substitute. No. 121,461; May 18; v. 274; p. 573.

Dowjat, Boleslaw, New Britain, Conn. General medicinal tonic. No. 125,945; May 18; v. 274; p. 580.

Doyle, Henry J., Lyndhurst, N. J. Sun-shields for automobiles. No. 127,853; May 18; v. 274; p. 587.

Easterday, William A., Washington, D. C. Candies. No. 128,770; May 18; v. 274; p. 593.

Eastern Machine Screw Corporation, The, New Haven, Conn. Automatic die-heads, collapsible taps, threading-machines, &c. No. 126,678; May 18; v. 274; p. 583.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 129,627; May 18; v. 274; p. 596.

Fair, The, Chicago, Ill. Sheets and pillow-cases. No. 126,569; May 18; v. 274; p. 582.

Farm Equipment Co., The, Baltimore, Md. Clevises, clod-crushers, seed-drills, mowers, &c. No. 126,686; May 18; v. 274; p. 583.

Feeback, Harry F., El Paso, Tex. Hair-tonic. No. 124,930; May 18; v. 274; p. 577.

Fleishman's Cloak & Suit Company, Baltimore, Md. Ladies' and misses' wearing-apparel. No. 127,504; May 18; v. 274; p. 586.

Forest Paper Company, New York, N. Y. Writing and printing bond-paper, ledger and writing paper, and mailing-envelops. No. 114,536; May 18; v. 274; p. 569.

Forsyth Dental Infirmary for Children, The, Boston, Mass. Dentifrice. No. 124,983; May 18; v. 274; p. 577.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 129,974; May 18; v. 274; p. 597.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 130,131; May 18; v. 274; p. 598.

Foster, C. B., Biloxi, Miss. Canned shrimp. No. 92,519; May 18; v. 274; p. 567.

Fougera, E., & Co., New York, N. Y. Medicines for the prevention of infections of the urinary tract. No. 126,312; May 18; v. 274; p. 581.
Freedman, Hyman, Chicago, Ill. Furniture. No. 124,207; May 18; v. 274; p. 576.
Friedman & Moss, Inc., New York, N. Y. Plain and printed broad silks in pieces. No. 129,495; May 18; v. 274; p. 596.
General Electric Company, Limited, The, London, England. Electric carbons. No. 119,234; May 18; v. 274; p. 572.
General Necessities Corporation, Detroit, Mich. Artificial ice. No. 123,880; May 18; v. 274; p. 576.
Gibson, Joseph E., San Diego, Calif. Photograph-mountings. No. 128,063; May 18; v. 274; p. 588.
Glass, Henry, & Co., New York, N. Y. Voiles and sateen in the piece. Nos. 130,135–6; May 18; v. 274; p. 598.
Glemby, S., Inc., New York, N. Y. Hair-nets. Nos. 129,838–40; May 18; v. 274; p. 597.
Glidden Company, The, Cleveland, Ohio. Varnishes, furniture and automobile polishes, wood-stains, enamels, &c. Nos. 128,152–3; May 18; v. 274; p. 589.
Goldenwest Citrus Assn., Tustin, Calif. Citrus fruits. No. 111,107; May 18; v. 274; p. 568.
Graham, Murdock M., Boston, Mass. Dolls. No. 127,483; May 18; v. 274; p. 586.
Granger, Fred L., Benton Harbor, Mich. Fruits—namely, Concord grapes in their natural state. No. 128,600; May 18; v. 274; p. 592.
Grant, W. T. Co., New York, N. Y. Hosiery. No. 128,207; May 18; v. 274; p. 589.
Grasselli Chemical Co., The, Cleveland, Ohio. Dyestuffs. No. 126,902; May 18; v. 274; p. 584.
Graves, Willard E., New York, N. Y. Children's dresses. No. 129,460; May 18; v. 274; p. 595.
Greenhalgh, J. H., & Company, Chicago, Ill. Accounting-forms. No. 127,053; May 18; v. 274; p. 585.
H. K. H. Silk Co. of New York, Inc., The, New York, N. Y. Natural and artificial silk threads and yarns. Nos. 130,416–7; May 18; v. 274; p. 598.
Haas, Baruch & Co., Los Angeles, Calif. Canned fruit in glass. Melba pears, preserves in glass, honey, &c. No. 126,857; May 18; v. 274; p. 584.
Halsam Products Company, Chicago, Ill. Building-blocks, play-blocks, and blocks for games. No. 127,510; May 18; v. 274; p. 586.
Hall, Martha, San Francisco, Calif. Medicine for tuberculosis. No. 126,994; May 18; v. 274; p. 585.
Harding, Ralph T., Kansas City, Mo. Animal foods, particularly bird-seed. No. 129,546; May 18; v. 274; p. 596.
Harper & McIntire Company, Inc., Ottumwa, Iowa. Bicycles. No. 130,896; May 18; v. 274; p. 599.
Harper & McIntire Company, Inc., Ottumwa, Iowa. Chicken-waterers and chicken-coops. No. 130,892; May 18; v. 274; p. 599.
Hartford Battery Manufacturing Company, The, Hartford, Conn. Storage batteries and parts thereof. No. 129,386; May 18; v. 274; p. 595.
Hartmann Brothers, Inc., New York, N. Y. Hair-nets. No. 126,380; May 18; v. 274; p. 582.
Hartman Company, The, Chicago, Ill. Animal-feed cookers. No. 126,377; May 18; v. 274; p. 582.
Haynes Stellite Co., The, Kokomo, Ind. Blades, and cutters for milling, turning, and the like metal-working machinery. No. 116,051; May 18; v. 274; p. 570.
Hoerner, William M., Harrisburg, Pa. Blank books in which saving-stamps will be pasted. No. 119,123; May 18; v. 274; p. 572.
Hogue, Charles L., Oakland, Calif. Eyeglasses. No. 128,306; May 18; v. 274; p. 590.
Holt Manufacturing Company, The, Stockton, Calif. Tractors, internal-combustion engines, harvesters, &c. No. 127,689; May 18; v. 274; p. 587.
Hones, Charles A., Brooklyn, N. Y. Gas soldering-furnaces, soft-metal furnaces, burners, and torches. No. 130,759; May 18; v. 274; p. 599.
Hoosier Chemical Company, Mt. Carmel, Ill. Stove-polish. No. 129,389; May 18; v. 274; p. 595.
Head-Lipscomb-McCormick Co., Bristol, Va. Overalls, work and dress shirts. No. 105,802; May 18; v. 274; p. 567.
Hellig, Luther A., San Diego, Calif. Optical lenses for spectacles and eyeglasses. No. 127,592; May 18; v. 274; p. 586.
Hendricks, Charles I., New York, N. Y. Protective coverings cut and fitted for attachment to the platens or rolls of typewriters and adding-machines. No. 126,725; May 18; v. 274; p. 583.
Herrmann, Geo., Company, San Francisco, Calif. Hops. No. 128,843; May 18; v. 274; p. 593.
Hughes & Curren Co. Inc., Rochester, N. Y. Tops, fenders, and clutch-hooks as accessories for tractors. No. 122,046; May 18; v. 274; p. 574.
Hurley, William J., Chicago, Ill. Tonic for aiding the digestion organs and improving the appetite. No. 126,730; May 18; v. 274; p. 583.
Hurley, William J., Chicago, Ill. Tonic for the bowel action and improving the digestion. No. 126,729; May 18; v. 274; p. 583.
Hutchinson, James F., Rochester, N. Y. Telephone-index blank. No. 128,926; May 18; v. 274; p. 593.
Hyco Fuel Products Corpn., New York, N. Y. Self-generating gas-burners. No. 126,933; May 18; v. 274; p. 584.
Iles, Albert S., Birmingham, England. Table ball-game. No. 125,284; May 18; v. 274; p. 578.
Johnson & Murray, Incorporated, Utica, Watertown, and Ogdensburg, N. Y. Canned vegetables. No. 126,863; May 18; v. 274; p. 584.
Johnson, Roe L., New York, N. Y. Metal-working boring-bars, cutters, reamers, drills, &c. No. 119,478; May 18; v. 274; p. 572.
Johnston, Robert A., Co., Milwaukee, Wis. Candies. No. 128,507; May 18; v. 274; p. 591.
Jonas, Joseph C., Brooklyn, N. Y. Corn remedies, cough medicine, liniment for sprains, &c. No. 123,811; May 18; v. 274; p. 575.
Jordan and Hamble Compounding Company, Houston, Tex. Liniment for the treatment of rheumatism. No. 126,036; May 18; v. 274; p. 580.
Kasser, Adolf, Philadelphia, Pa. Soap. No. 129,553; May 18; v. 274, p. 596.
Kaufman, Jacob J., Columbus, Ga. Pomade hair-dressing. No. 125,752; May 18; v. 274; p. 579.
Kaufmann Bros., and Bondy, New York, N. Y. Smokers' pipes, cigar and cigarette holders. No. 126,473; May 18; v. 274; p. 582.
Keever Starch Co., The, Columbus, Ohio. Laundry starch. No. 127,478; May 18; v. 274; p. 586.
Keystone Driller Company, Beaver Falls, Pa. Deep-well, &c., pumps, pumping outfits, and pump-valves. No. 128,689; May 18; v. 274; p. 592.
Kleenx Company, The, Cleveland, Ohio. Cleaning preparations for articles of straw and similar materials. No. 128,271; May 18; v. 274; p. 590.
Korndorfer, Casper J., Tompkinsville, N. Y. Bank-checks. No. 128,099; May 18; v. 274; p. 588.
Koss, Edward H., Washington, D. C. Ointment of a petrolatum base for the relief of cold in the head and chapped skin. No. 130,172; May 18; v. 274; p. 598.
Krug, Fred, Products Co., Omaha, Nebr. Non-intoxicating malt beverages. No. 104,935; May 18; v. 274; p. 567.
Laclede-Christy Clay Products Company, St. Louis, Mo. High-temperature cement for the construction and repair of furnaces. No. 115,391; May 18; v. 274; p. 570.
Lamb Railway Service Co., Ltd., Windsor, Canada, and Detroit, Mich. Automobile and furniture finish. No. 128,690; May 18; v. 274; p. 592.
Lamborn & Co., New York, N. Y. Sugar, American wheat-flour, and tea. No. 111,881; May 18; v. 274; p. 568.
Lang, John, Lakewood, N. J. Candy. No. 127,374; May 18; v. 274; p. 585.
Lazell Perfumer, Newburgh, N. Y. Perfumes, extracts, toilet water, talcum powder, &c. No. 123,813; May 18; v. 274; p. 576.
Lily Cup Company, The, New York, N. Y. Paper or pulp towels. No. 117,120; May 18; v. 274; p. 571.
Lustr-Ite Corporation, The, Brooklyn, N. Y. Brilliantine rose, cold-cream, cuticle-powder, lip-stick, &c. No. 125,893; May 18; v. 274; p. 580.
Lynchburg Shoe Company, Lynchburg, Va. Boots and shoes of leather, &c. No. 128,511; May 18; v. 274; p. 591.
Lynn-Kerr & Co., Louisville, Ky. Pattern-hats for misses, women, and children. No. 123,267; May 18; v. 274; p. 574.
M. & G. Novelty Company, Attleboro, Mass. Lingerie, scarf, collar, and bib clasps. No. 129,149; May 18; v. 274; p. 594.
Malone & Hyde, Memphis, Tenn. Cane-syrup for table use. No. 109,564; May 18; v. 274; p. 568.
Marshburn, N. E., Atlanta, Ga. Liniment, laxative tonic, liver medicine, and salve. No. 123,287; May 18; v. 274; p. 575.
Marten, Edward R., St. Louis, Mo. Laxative medicinal remedies. No. 127,064; May 18; v. 274; p. 585.
Martin, C. J., Austin, Tex. Insecticide and vermin-exterminator. No. 130,426; May 18; v. 274; p. 598.
Maschinenfabrik Schweiter A-G, Horgen, Switzerland. Textile machinery and apparatus, selvage apparatus, and regulators, &c. No. 113,493; May 18; v. 274; p. 569.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies and chocolates. No. 129,639; May 18; v. 274; p. 596.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 128,737; May 18; v. 274; p. 593.
Master Builders Company, The, Cleveland, Ohio. Liquid preparation to be incorporated with or applied to cement and concrete for the purpose of controlling and accelerating its setting, &c. No. 113,225; May 18; v. 274; p. 569.
Matthews, W. N., and Brother, Inc., St. Louis, Mo. Liquid and dry-powder sprayers. No. 129,467; May 18; v. 274; p. 595.
Maus, Charles F., Chicago, Ill. Razors, pocket-knives, scissors, hair-clips, &c. Nos. 129,267–8; May 18; v. 274; p. 594.
McClaren Rubber Company, Charlotte, N. C. Rubber or rubber and fabric tires and tubes for vehicles. No. 126,587; May 18; v. 274; p. 582.
McCrackin, Furman B., Bamberg, S. C. Medicine used in the treatment of chills fever, malaria, &c. No. 125,717; May 18; v. 274; p. 579.

McIntosh Battery and Optical Co., Chicago, Ill. Sets of apparatus for generating, controlling, and applying electric current for therapeutic purposes. No. 113,297; May 18; v. 274; p. 569.
Measuregraph Company, The, St. Louis, Mo. Fabric-measuring and cost-computing machines. No. 127,561; May 18; v. 274; p. 586.
Mehlin, Paul G., & Sons, New York, N. Y. Pianos. No. 127,382; May 18; v. 274; p. 586.
Meisel Press Manufacturing Company, Boston, Mass. Printing-presses, bed-plates, and grips for printing-presses, &c. No. 107,028; May 18; v. 274; p. 568.
Mexico Arizona Trading Company, Nogales, Ariz. Fresh fruits and vegetables. No. 125,468; May 18; v. 274; p. 579.
Mills, Angier, Ashland, Mass. Waterproof wrapping and lining paper. No. 108,337; May 18; v. 274; p. 568.
Monroe, Block & Co., Providence, R. I. Pearls. No. 127,628; May 18; v. 274; p. 587.
Morey and Company, Cambridge, Mass. Finished paper-stock, book-paper, newspaper, and wrapping-paper. No. 124,310; May 18; v. 274; p. 576.
Muller Export Company, New York, N. Y., and Chicago, Ill. Hosiery. No. 129,413; May 18; v. 274; p. 595.
Mutual Service Corporation, New York, N. Y. Sweet potatoes in their natural state. No. 128,609; May 18; v. 274; p. 592.
Nakayama, Toyozo, Osaka, Japan. Stationery. No. 122,224; May 18; v. 274; p. 574.
Nathan and Cohen Co., Inc., New York, N. Y. Silk-filled crepe-de-chine piece goods. No. 129,735; May 18; v. 274; p. 597.
National Canners Association. (See Strasbaugh, Harry P., assignor.)
National Cash Register Company, The, Dayton, Ohio. Machines of flexible design having four possible functions of printing, issuing, recording, and registering tickets, and their parts. No. 123,751; May 18; v. 274; p. 575.
New Diamond Point Pen Co, Inc., New York, N. Y. Magazine lead-pencils. No. 124,914; May 18; v. 274; p. 577.
Notaseme Hosiery Company, Philadelphia, Pa. Dolls. No. 130,388; May 18; v. 274; p. 598.
Ohio Varnish Company, The, Cleveland, Ohio. Paste soap. No. 118,325; May 18; v. 274; p. 571.
Omaha Flour Mills Co., Omaha, Nebr. Wheat-flour. No. 129,648; May 18; v. 274; p. 597.
Orange Manufacturing Company, Orange, Va. Automobile accessory consisting of an attachment for improving the vaporization of the gasolene. No. 120,844; May 18; v. 274; p. 573.
Osborn Paper Co., Marion, Ind. Writing-tablets, mailing-envelops, papeteries, &c. No. 129,242; May 18; v. 274; p. 594.
Pal-O'Mine Sanitary Soap Company, The, Leavenworth, Kans. Powdered soap. No. 128,897; May 18; v. 274; p. 593.
Palmer Tire Company, The, Topeka, Kans. Tire-repair outfits comprising rubber patches and cement for attaching same. No. 126,057; May 18; v. 274; p. 580.
Pandolfo, Samuel C., St. Cloud, Minn. Tanks, tool-chests, and canteens for automobiles. No. 123,256; May 18; v. 274; p. 574.
Paper Mills' Company, The, Chicago, Ill. Writing and printing paper and writing-tablets. No. 112,919; May 18; v. 274; p. 568.
Parker, Bettle, Lackawanna, N. Y. Soap. No. 128,895; May 18; v. 274; p. 593.
Patrick, F. A., & Co., Duluth, Minn. Steam-boilers. No. 130,928; May 18; v. 274; p. 599.
Perkins & McNeely, Philadelphia, Pa. Side-leather. No. 125,195; May 18; v. 274; p. 578.
Phoenix Light Company, Milwaukee, Wis. Electric-light-fixture parts. No. 129,801; May 18; v. 274; p. 597.
Polonia Drug Company, The, Philadelphia, Pa. Liniments to be used externally for relieving rheumatic and gouty conditions, neuralgia, liquid cough medicines, headache remedies, liver-pills, &c. No. 117,852; May 18; v. 274; p. 571.
Pomeroy Ink Manufacturing Co., Newark, N. J. Writing-inks of all kinds, inks for stamp-pads and numbering-machines, &c. Nos. 128,167–8; May 18; v. 274; p. 589.
Premium Metal & Packing Co., Wilkinsburg, Pa. Babbitt metals. No. 124,532; May 18; v. 274; p. 576.
Price, William B., Poughkeepsie and New York, N. Y. Preparation for waterproofing and preserving automobile-tops and similar articles. No. 127,447; May 18; v. 274; p. 586.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 128,980; May 18; v. 274; p. 594.
Quaker City Shirt Manufacturing Company, The, Norristown, Pa. Shirts, (dress, negligée, and work,) collars, and cuffs. No. 126,944; May 18; v. 274; p. 584.
Radior Co. Ltd. of London, New York, N. Y. Forehead and under-chin pads for strengthening the facial muscles, &c. No. 125,243; May 18; v. 274; p. 578.
Ralko Products Company, The, Dayton, Ohio. Hand fire-extinguishers. No. 124,734; May 18; v. 274; p. 577.
Reid Ice Cream Company, The, New York, N. Y. Ice-cream. No. 128,323; May 18; v. 274; p. 590.
Reid Ice Cream Company, The, New York, N. Y. Ice-cream and charlotte-russe. No. 128,322; May 18; v. 274; p. 590.
Robin Hood Mills, Limited, Moose Jaw, Saskatchewan, Canada. Wheat-flour. No. 126,542; May 18; v. 274; p. 582.
Rochester Germicide Company, Rochester, N. Y. Paper towels and toilet-paper. No. 123,080; May 18; v. 274; p. 574.
Rogers & Madison Trunk Corporation, Petersburg, Va. Trunks, suitcases, traveling-bags, and handbags. No. 127,262; May 18; v. 274; p. 585.
Rosenblum & Kern, New York, N. Y. Memorandum-books. No. 110,148; May 18; v. 274; p. 568.
Rowbottom, Thos., Co., New York, N. Y. Cotton and linen embroideries in the piece. No. 125,581; May 18; v. 274; p. 579.
Rumford Chemical Works, Providence, R. I. Baking-powder. No. 123,454; May 18; v. 274; p. 575.
Russia Cement Company, Gloucester, Mass. Polish, cleaning, and preserving preparations for stoves. No. 128,523; May 18; v. 274; p. 591.
Salisbury & Satterlee Co., Minneapolis, Minn. Mattresses, metal beds, couches, cribs, &c. No. 128,703; May 18; v. 274; p. 593.
Samstag & Hilder Bros., New York, N. Y. Hand-mirrors, bonnet-mirrors, and picture-frames. No. 127,662; May 18; v. 274; p. 587.
Sanchiz de Quesada, José, Madrid, Spain. Olive-oil. No. 118,542; May 18; v. 274; p. 572.
Schisa, Ettore M., Syracuse, N. Y., and Lebanon, Pa. Macaroni. No. 124,494; May 18; v. 274; p. 576.
Schoonmaker, F. W., Incorporated, New York, N. Y. Paste for skin irritations, bites, and poisonings. No. 119,053; May 18; v. 274; p. 572.
Schreiber & Wallach, Cleveland, Ohio. Children's and ladies' dresses, skirts, middy-blouses, and bloomers. No. 128,565; May 18; v. 274; p. 591.
Schweppes, Limited, London, England. Non-alcoholic non-cereal maltless flavored beverage. No. 125,439; May 18; v. 274; p. 579.
Scott, Lucinda, Wichita, Kans. Medicinal preparation for the treatment of cholera in hogs and poultry. No. 115,412; May 18; v. 274; p. 570.
Seligman and Latz, New York, N. Y. Cosmetics—namely, face and body creams, rouge, toilet articles, lip-sticks, &c. No. 126,654; May 18; v. 274; p. 583.
Service Station Supply Co., Detroit, Mich. Battery-testers. No. 129,097; May 18; v. 274; p. 594.
Sherman, Mae, Cleveland, Ohio. Liquid polish for furniture. No. 112,773; May 18; v. 274; p. 568.
Shiman-Miller Manufacturing Company, Newark, N. J. Jewelry, not including watches. No. 126,655; May 18; v. 274; p. 583.
Simlec Film Company, Pittsburgh, Pa. Motion-picture films. No. 122,579; May 18; v. 274; p. 574.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton piece goods. No. 129,576; May 18; v. 274; p. 596.
Solomon, Maurice, Cincinnati, Ohio. Liquid cleansing compound for removing grease-spots from fabrics. No. 102,673; May 18; v. 274; p. 567.
Solon, Palmer, New York, N. Y. Toilet and shaving soap. No. 129,512; May 18; v. 274; p. 596.
Sonn Brothers Company, New York, N. Y. Dyestuffs. Nos. 126,146–52; May 18; v. 274; pp. 580–1.
Sons and Daughters of Levi, Dothan, Ala. Medicine for treatment of mumps, measles, cholera, and liver trouble in hogs. No. 125,065; May 18; v. 274; p. 578.
Southwest Flour & Feed Company, Glendale, Ariz. Field-seed. No. 127,742; May 18; v. 274; p. 587.
St. Louis Beverage Company, St. Louis, Mo. Non-alcoholic non-intoxicating beverage. No. 126,072; May 18; v. 274; p. 580.
States Company, The, Hartford, Conn. Electrical transformers. No. 129,991; May 18; v. 274; p. 597.
Stearyte Co., The, New York, N. Y. Stearate of zinc, as employed by manufacturers of toilet preparations. No. 100,978; May 18; v. 274; p. 567.
Stitzel, E. E. & Son, Philadelphia, Pa. Automobile and furniture polish. No. 128,532; May 18; v. 274; p. 591.
Strasbaugh, Harry P., Aberdeen, Md., assignor to National Canners Association, Washington, D. C. Foods in hermetically-sealed cans. No. 128,745; May 18; v. 274; p. 593.
Stromberg, Benjamen, New York, N. Y. Men's soft silk collars. No. 128,476; May 18; v. 274; p. 591.
Stuart, D. A., & Co., Chicago, Ill. Cutting-oils. No. 128,374; May 18; v. 274; p. 590.
Tennessee Coal, Iron & Railroad Company, Birmingham, Ala. Plain, corrugated, round, square, and flat iron and steel. No. 127,843; May 18; v. 274; p. 587.
Tiffany & Company, New York, N. Y. Flexible steel measuring-tapes, field and marine glasses, thermometers, &c. Nos. 128,238–9; May 18; v. 274; p. 590.
Tiffany & Company, New York, N. Y. Table-cutlery of base metal, pocket-knives, scissors, razors, &c. No. 128,236; May 18; v. 274; p. 590.
Tilden Produce Co., St. Paul, Minn. Fresh eggs. No. 90,102; May 18; v. 274; p. 567.
Toledo Enameled Wire Products Co., The, Toledo, Ohio. Wire, particularly magnet-wire. No. 128,120; May 18; v. 274; p. 589.
Tuttle, W. E. Co., The, Rochester, N. Y. Shoes of leather and combination of leather and fabric. No. 127,949; May 18; v. 274; p. 588.

(REGISTRATION APPLIED FOR.)

U. S. Pharmaceutical Manufacturing Company, New York, N. Y. Cough medicine. No. 123,466; May 18; v. 274; p. 575.
Underwood, William, Company, Boston, Mass. Canned sardines. No. 129,518; May 18; v. 274; p. 596.
United Soap Products Co., Rochester, N. Y. Washing-tablets to be used for cleaning. No. 129,763; May 18; v. 274; p. 597.
Veratone Phonograph Co., The, Marietta, Ohio. Phonograph-cabinets. No. 125,588; May 18; v. 274; p. 579.
Vesper, Anna M., San Francisco, Calif. Automobile-polish. No. 120,144; May 18; v. 274; p. 572.
Waldes & Co., Prague, Bohemia. Toilet-paper, paper napkins, silk and Japanese paper, &c. No. 121,050; May 18; v. 274; p. 573.
Watson, Mamie E., Jackson, Miss. Hair-grower. No. 126,338; May 18; v. 274; p. 582.
Weinberg, L., Baking Co., Cincinnati, Ohio. Bread. No. 115,021; May 18; v. 274; p. 569.
Whitaker Paper Company, The, Cincinnati, Ohio. Printing-paper. No. 127,950; May 18; v. 274; p. 588.
Whitaker Paper Company, The, Cincinnati, Ohio. Wrapping-paper. No. 127,880; May 18; v. 274; p. 587.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Writing-paper tablets, note-books, block-pads, &c. No. 128,032; May 18; v. 274; p. 588.
Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and articles made thereof. No. 120,902; May 18; v. 274; p. 573.
Wilcox & White Co., The, Meriden, Conn. Mechanical music-playing instruments and music-rolls therefor. No. 125,097; May 18; v. 274; p. 578.
Williams, W. Reed, (1908) Limited, London, England. Articles of jewelry comprising brooches, pendants, necklets, &c. No. 125,819; May 18; v. 274; p. 580.
Wilson, Harold G., Titusville, Fla. Medicine used in the treatment of headache, neuralgia, rheumatism, &c. No. 124,505; May 18; v. 274; p. 576.
Wing, John F., Maywood, Ill. Spark-plug intensifiers. No. 116,121; May 18; v. 274; p. 570.
Wisconsin Shoe Company, Milwaukee, Wis. Athletic shoes made in the various combinations. No. 128,189; May 18; v. 274; p. 589.
Wood, George H., Boston, Mass. Liniment used externally for rheumatism, bruises, colds, &c. No. 125,519; May 18; v. 274; p. 579.
Wood, J. W., Detroit, Mich. Medicine for the treatment of tuberculosis, &c. No. 125,138; May 18; v. 274; p. 578.
Woolley, Daniel P., New York, N. Y. Bread. No. 128,631; May 18; v. 274; p. 592.
Woolley, Daniel P., New York, N. Y. Bread. No. 128,633; May 18; v. 274; p. 592.
Worden, W. H., Company, San Francisco, Calif. Drag-saws. No. 127,953; May 18; v. 274; p. 588.
Wyckoff Drawn Steel Co., Pittsburgh, Pa. Cold-drawn steel. No. 127,988; May 18; v. 274; p. 588.
Z. and S. Middy Co., New York, N. Y. Middy-blouses. No. 129,365; May 18; v. 274; p. 595.
Zalkind, Philip, New York, N. Y. Paper boxes and cartons. No. 126,407; May 18; v. 274; p. 582.
Zinsser, Wm., & Co., Inc., New York, N. Y. Bleached gum-shellac. No. 128,262; May 18; v. 274; p. 590.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting-machine. B. P. Hayes and F. D. Laughlin. No. 1,340,827; May 18; v. 274; p. 542.
Acid concentration, Sulfuric-. J. Patten. No. 1,340,290; May 18; v. 274; p. 440.
Adding-machine. G. C. Chase. No. 1,340,374; May 18; v. 274; p. 457.
Aeroplane. J. Kleidman. No. 1,340,450; May 18; v. 274; p. 471.
Aeroplane landing-stage. J. A. Caulkins. No. 1,340,325; May 18; v. 274; p. 447.
Aeroplane, Metal fitting for connecting together certain structural members of an. P. J. R. Postel-Vinay. No. 1,340,626; May 18; v. 274; p. 504.
Aeroplane-stabilizer. A. Chiarelli. No. 1,340,214; May 18; v. 274; p. 426.
Aeroplane-undercarriage. F. L. Guillemet. No. 1,340,483; May 18; v. 274; p. 477.
Air, Means for introducing auxiliary. A. A. Jackson. No. 1,340,228; May 18; v. 274; p. 420.
Air-propeller. V. L. Bókeli. No. 1,340,210; May 18; v. 274; p. 426.
Aircraft. E. B. Carns. No. 1,340,154; May 18; v. 274; p. 416.
Aircraft, Navigating. J. A. Steinmetz. No. 1,340,573; May 18; v. 274; p. 494.
Airplane. J. E. Eaton. No. 1,340,707; May 18; v. 274; p. 520.
Alarms, Circuit-closer for vehicle-. F. C. Potter. No. 1,340,344; May 18; v. 274; p. 451.
Alloy, T. Koch. No. 1,340,451; May 18; v. 274; p. 471.
Alloy, Metal. G. C. Deeter. No. 1,340,437; May 18; v. 274; p. 469.
Aluminum, Tinning or soldering. J. Dean. No. 1,340,264; May 18; v. 274; p. 435.
Aminoanthraquinone, Making 2 M. Fischer. No. 1,340,603; May 18; v. 274; p. 500.
Amusement apparatus, Scenic. J. Smith. No. 1,340,570; May 18; v. 274; p. 494.
Analytical apparatus. H. B. Pulsifer. No. 1,340,346; May 18; v. 274; p. 451.
Anesthetic-administering apparatus. W. A. Johnston, A. W. Brown, and F. L. Wallace. No. 1,340,448; May 18; v. 274; p. 471.
Animal-trap. W. B. Gilmore. No. 1,340,442; May 18; v. 274; p. 470.
Annealing-box. H. B. Rose and W. B. Enck. No. 1,340,675; May 18; v. 274; p. 514.
Asbestos, Treating. E. H. Garcin. No. 1,340,535; May 18; v. 274; p. 487.
Ash-sage color-preserving extract. J. Petan. No. 1,340,246; May 18; v. 274; p. 432.
Asphalt, Fibered. G. L. Oliensis and J. S. Miller, Jr. No. 1,340,181; May 18; v. 274; p. 420.
Atomizer. J. H. Beynon. No. 1,340,433; May 18; v. 274; p. 468.
Automatograph. C. W. Davison. No. 1,340,529; May 18; v. 274; p. 486.
Automobile-bumper. L. W. Dilweg. No. 1,340,867; May 18; v. 274; p. 549.
Automobile-heater. A. J. Adamson. No. 1,340,314; May 18; v. 274; p. 445.
Automobile-jack. W. H. Butters. No. 1,340,749; May 18; v. 274; p. 527.
Automobile-lock. J. L. Chackan. No. 1,340,326; May 18; v. 274; p. 447.
Automobile-lock. R. S. Jaques. No. 1,340,393; May 18; v. 274; p. 460.
Automobile-signal. W. E. F. Gibson and I. M. James. No. 1,340,537; May 18; v. 274; p. 487.
Automobile-support. J. N. Duncan. No. 1,340,438; May 18; v. 274; p. 469.
Automobile-top bow. J. Vetter. No. 1,340,307; May 18; v. 274; p. 443.
Automobile-tops, Curtain-holder for. W. P. Sharp. No. 1,340,799; May 18; v. 274; p. 537.
Automobiles, Demountable lamp-bracket for. W. W. Sabin. No. 1,340,686; May 18; v. 274; p. 516.
Automobiles from mud, sand, or ditches, Device for extracting. W. A. Nash. No. 1,340,238; May 18; v. 274; p. 431.
Bag: *See*—
Hot-water or ice bag.
Bag-holder. J. L. and G. E. Herrman. No. 1,340,714; May 18; v. 274; p. 521.
Baking-pan. L. Lewitzky. No. 1,340,659; May 18; v. 274; p. 511.
Ball: *See*—
Twine-ball.
Battery: *See*—
Storage battery.
Bearing, Antifriction-. G. Wolff. No. 1,340,310; May 18; v. 274; p. 444.
Bearing, Ball-. J. E. Pruyn. No. 1,340,250; May 18; v. 274; p. 433.
Bearing for crank-shafts, Adjustable thrust-. T. N. Martin. No. 1,340,396; May 18; v. 274; p. 461.
Bearing-shell, Process and apparatus for lining a. F. C. Heath. No. 1,340,337; May 18; v. 274; p. 449.
Bearings and thrust-bearings, Special design for ball-. A. Maire. No. 1,340,663; May 18; v. 274; p. 512.
Bed and coop, Child's folding combined. J. S. Winget. No. 1,340,694; May 18; v. 274; p. 517.
Bed-bottom structure. G. S. Greenleaf. No. 1,340,540; May 18; v. 274; p. 488.
Bed, Folding. C. R. Bruce. No. 1,340,212; May 18; v. 274; p. 426.
Bed, Folding. R. B. Page. No. 1,340,735; May 18; v. 274; p. 524.
Bed-spring. S. Weissman and R. Weisman. No. 1,340,510; May 18; v. 274; p. 482.
Bed, Window-. E. J. Henry. No. 1,340,609; May 18; v. 274; p. 501.
Bedpan. C. F. Zimmerman. No. 1,340,680; May 18; v. 274; p. 515.
Beet-puller. W. Schmidt. No. 1,340,796; May 18; v. 274; p. 536.
Billiard-cue construction and attaching the cue-tip. O. C. Leger. No. 1,340,395; May 18; v. 274; p. 461.
Billet-turner. L. L. Welch. No. 1,340,640; May 18; v. 274; p. 507.
Binders, Twine-treating attachment for. J. Rowe. No. 1,340,294; May 18; v. 274; p. 441.
Bituminous material, Composition of matter containing. J. M. Weiss. No. 1,340,855; May 18; v. 274; p. 547.
Blind-slot attachment. N. C. Rasmussen. No. 1,340,252; May 18; v. 274; p. 433.
Board: *See*—
Ironing-board.
Boat or other vessel, Sheet-metal. W. Gardner. No. 1,340,441; May 18; v. 274; p. 470.
Boiler: *See*—
Milk-boiler.
Boiler-tube and combustion-chamber cleaner. J. Bennett. No. 1,340,144; May 18; v. 274; p. 414.
Bolting-up device. F. F. Whitmore. No. 1,340,470; May 18; v. 274; p. 475.
Bomb. C. R. Keeran. No. 1,340,546; May 18; v. 274; p. 489.
Book, Printed. H. W. Haight. No. 1,340,713; May 18; v. 274; p. 521.
Book-shelf. W. A. Borden. No. 1,340,317; May 18; v. 274; p. 445.
Bottle-and jar closure. J. A. Loyster. No. 1,340,783; May 18; v. 274; p. 534.
Bottle, Non-refillable. A. J. Carlin. No. 1,340,373; May 18; v. 274; p. 456.
Bottle-stopper. T. M. Moore. No. 1,340,237; May 18; v. 274; p. 431.
Box: *See*—
Annealing-box. Safety-deposit box.
Knockdown box. Talcum-powder box.
Sound-box.
Box. P. C. Lavenberg. No. 1,340,489; May 18; v. 274; p. 478.
Brace: *See*—
Screen-door brace.
Brace for correcting foot-angles. E. Dahl. No. 1,340,700; May 18; v. 274; p. 519.
Bracket: *See*—
Electric-light bracket. Roof-bracket.
Bracket. J. H. Rogers. No. 1,340,684; May 18; v. 274; p. 516.
Braiding or lacing machine. F. Kellner. No. 1,340,487; May 18; v. 274; p. 478.

Brake: *See*—
Coaster-brake. Wagon-brake.
Brake. P. Brown. No. 1,340,321; May 18; v. 274; p. 446.
Brake-beam strut. C. F. Huntoon. No. 1,340,168; May 18; v. 274; p. 418.
Brush, Fountain shoe-. C. J. Mills. No. 1,340,283; May 18; v. 274; p. 439.
Buckle. A. J. Sterne. No. 1,340,302; May 18; v. 274; p. 442.
Buckle. A. J. Sterne. No. 1,340,303; May 18; v. 274; p. 443.
Buckle, Belt-. S. Buchsbaum. No. 1,340,821; May 18; v. 274; p. 541.
Buckle, Trace-. J. G. Pockert. No. 1,340,792; May 18; v. 274; p. 535.
Building, Sectional. B. C. Rowan. No. 1,340,561; May 18; v. 274; p. 492.
Bullets, Machine for dropping. C. F. Benjamin. No. 1,340,432; May 18; v. 274; p. 468.
Burner: *See*—
Gas-burner. Liquid-fuel burner.
Bushing and valve, Combined. J. A. Anderson. No. 1,340,810; May 18; v. 274; p. 538.
Button. S. A. Glynn. No. 1,340,390; May 18; v. 274; p. 460.
Button, Push-. S. Anthony. No. 1,340,139; May 18; v. 274; p. 413.
Buttons, Manufacture of. E. L. Anderson. No. 1,340,515; May 18; v. 274; p. 483.
Cabinet, Check-. J. A. Kidwell. No. 1,340,231; May 18; v. 274; p. 430
Cabinet, Phonograph-. C. H. Gudegast. No. 1,340,766; May 18; v. 274; p. 530.
Cableway, Marine. T. S. Miller. (Reissue) No. 14,858; May 18; v. 274; p. 549.
Calender-guide. T. P. Little. No. 1,340,234; May 18; v. 274; p. 430.
Cam and push-rod machine. J. Holle. No. 1,340,717; May 18; v. 274; p. 521.
Camera, Motion-picture. J. A. Golden. No. 1,340,539; May 18; v. 274; p. 48.
Cameras, Shutter mechanism for motion-picture. E. J. Pennypacker. No. 1,340,557; May 18; v. 274; p. 491.
Cameras, View-finder for. H. A. McCallum. No. 1,340,618; May 18; v. 274; p. 503.
Cameras, View-finder for. H. A. McCallum. No. 1,340,619; May 18; v. 274; p. 503.
Can-cover-removing apparatus. J. M. Rude. No. 1,340,409; May 18; v. 274; p. 463.
Can-filling machine. J. Schmidt, Jr. No. 1,340,185; May 18; v. 274; p. 421.
Can-treating apparatus. J. M. Rude. No. 1,340,408; May 18; v. 274; p. 463.
Cap, Chimney-. A. M. Peterson. No. 1,340,459; May 18; v. 274; p. 473.
Cap, Plant-protecting. W. R. Schindler. No. 1,340,631; May 18; v. 274; p. 506.
Caps for receptacles, Forming two-piece. C. R. Keeran. No. 1,340,449; May 18; v. 274; p. 471.
Car anchorage, Tank-. W. J. Tangerman. No. 1,340,188; May 18; v. 274; p. 422.
Car-axle lubricator. J. M. Urbieta. No. 1,340,808; May 18; v. 274; p. 538.
Car-coupling. G. W. Gill. No. 1,340,538; May 18; v. 274; p. 488.
Car-draft-arm, Railway-. C. J. Nash. No. 1,340,285; May 18; v. 274; p. 439.
Car-loading device. W. C. Stevenson. No. 1,340,574; May 18; v. 274; p. 494.
Car-mover. E. E. Chapman. No. 1,340,523; May 18; v. 274; p. 484.
Car-roof. T. N. Russell. No. 1,340,685; May 18; v. 274; p. 516.
Car-roof construction, Railway-. S. Otis. No. 1,340,667; May 18; v. 274; p. 512.
Car-underframe. R. C. Taft. No. 1,340,576; May 18; v. 274; p. 495.
Cars, Hand-brake for railway-. P. Brown. No. 1,340,322; May 18; v. 274; p. 446.
Cars, Hand-brake for railway-. P. Brown. No. 1,340,323; May 18; v. 274; p. 446.
Cars, Lumber-loading roll for. H. J. Snyder. No. 1,340,507; May 18; v. 274; p. 482.
Carburetor. J. A. Kline. No. 1,340,720; May 18; v. 274; p. 522.
Card-file. W. L. Dinsmoor. No. 1,340,757; May 18; v. 274; p. 529.
Carriage-top. C. A. Lindberg. No. 1,340,279; May 18; v. 274; p. 438.
Carrier: *See*—
Pocketed carrier. Tire-carrier.
Cartridge-tube filler. S. Paulson. No. 1,340,737; May 18; v. 274; p. 528.
Case: *See*—
Filing-case.
Chain. G. W. Goodridge. No. 1,340,765; May 18; v. 274; p. 530.
Chain-fastener. J. H. Hecker. No. 1,340,484; May 18; v. 274; p. 477.
Chain-making machine. H. Weinacker. No. 1,340,639; May 18; v. 274; p. 507.
Chain, Non-skid. J. F. Parker. No. 1,340,182; May 18; v. 274; p. 421.
Chain, Non-skid. J. F. Parker. No. 1,340,183; May 18; v. 274; p. 421.
Check writer, Bank-. C. Wendelken. No. 1,340,428; May 18; v. 274; p. 467.
Check-writer. C. Wendelken. No. 1,340,429; May 18; v. 274; p. 468.
Cheese-cutting machine. W. Faehndrich. No. 1,340,479; May 18; v. 275; p. 476.
Chuck, Drill-. A. L. Strong. No. 1,340,845; May 18; v. 274; p. 545.
Churn. D. T. Lowe. No. 1,340,491; May 18; v. 274; p. 479.
Churn. R. A. Thompson and L. P. Morris. No. 1,340,466; May 18; v. 274; p. 474.
Cigar-lighter, pipe-lighter, and the like, Electric. R. J. H. Hill. No. 1,340,716; May 18; v. 274; p. 521.
Cinematograph-film spool, Friction braking means for. W. A. Graham. No. 1,340,710; May 18; v. 274; p. 520.
Circuit-breaker structure, Shockproof. W. M. Scott. No. 1,340,564; May 18; v. 274; p. 493.
Clamp: *See*—
Rail-clamp.
Clasp. P. W. Murray. No. 1,340,284; May 18; v. 274; p. 439.
Cleaner: *See*—
Boiler-tube and combustion-chamber cleaner. Comb-cleaner.
Cleaning and polishing, Composition for. B. A. Barnes. No. 1,340,747; May 18; v. 274; p. 527.
Cleansing compound and making same. E. Baum. No. 1,340,315; May 18; v. 274; p. 445.
Clip: *See*—
Paper-clip.
Closet: *See*—
Water-closet.
Cloth-winding machine. C. E. Money. No. 1,340,178; May 18; v. 274; p. 420.
Clothes-reel. C. E. Niles. No. 1,340,494; May 18; v. 274; p. 479.
Clothespin, Locking-. W. R. Derr. No. 1,340,159; May 18; v. 274; p. 417.
Coaling device. Y. Brouwers. No. 1,340,819; May 18; v. 274; p. 540.
Coaster-brake. W. F. Emerson. No. 1,340,386; May 18; v. 274; p. 459.
Coating, Method of and apparatus for applying liquid. E. C. Alleman. No. 1,340,645; May 18; v. 274; p. 508.
Coffee-grinding mill. K. S. Stenbo. No. 1,340,635; May 18; v. 274; p. 506.
Coffee-roasting machine. F. A. Wilcox and E. L. McGrory. No. 1,340,692; May 18; v. 274; p. 517.
Coin-boxes, Registering-circuits for. G. K. Thompson. No. 1,340,260; May 18; v. 274; p. 435.
Collapsible stand. W. H. Boze. No. 1,340,370; May 18; v. 274; p. 456.
Colter hub, Rolling-disk-. W. R. Wilson. No. 1,340,693; May 18; v. 274; p. 517.
Comb. J. A. Cypert. No. 1,340,379; May 18; v. 274; p. 457.
Comb-cleaner. I. Brandon. No. 1,340,817; May 18; v. 274; p. 540.
Communication-controlling device. I. S. Merrell. No. 1,340,552; May 18; v. 274; p. 490.
Commutator. O. Kersten. No. 1,340,857; May 18; v. 274; p. 547.
Concrete bricks, apparatus for making hollow. A. O. Crozier. No. 1,340,824; May 18; v. 274; p. 541.
Concrete-mixer loader. V. M. Price. No. 1,340,345; May 18; v. 274; p. 451.
Connecting-rod. H. B. Layman. No. 1,340,171; May 18; v. 274; p. 419.
Connecting-rod. H. B. Layman. No. 1,340,172; May 18; v. 274; p. 419.
Connecting-rod. H. B. Layman. No. 1,340,173; May 18; v. 274; p. 419.
Container, Safety-. E. F. Nissen. No. 1,340,553; May 18; v. 274; p. 490.
Container, Safety-. E. F. Nissen. No. 1,340,555; May 18; v. 274; p. 491.
Coördinator. W. L. Owens. No. 1,340,623; May 18; v. 274; p. 504.
Copy and book holder. H. Safford. No. 1,340,411; May 18; v. 274; p. 464.
Cord, Flexible. W. L. Runzel. No. 1,340,839; May 18; v. 274; p. 544.
Cork-extractor. C. T. Madsen. No. 1,340,551; May 18; v. 274; p. 490.
Corn-husker pin. L. F. Schrage. No. 1,340,419; May 18; v. 274; p. 466.
Cost-keeping machine. J. W. Bryce. No. 1,340,435; May 18; v. 274; p. 469.
Cotton-gin. R. S. Wheeler. No. 1,340,691; May 18; v. 274; p. 517.
Cotton, Machine for picking. W. Threadgill. No. 1,340,577; May 18; v. 274; p. 495.
Cotton-seed unloaders, Discharge device for. C. H. Golloher. No. 1,340,164; May 18; v. 274; p. 418.
Coupling: *See*—.
Car-coupling. Magneto-coupling.
Coupling. M. H. Poirier. No. 1,340,739; May 18; v. 274; p. 525.
Covers, Device for removing slip-. W. T. Schneeweiss. No. 1,340,413; May 18; v. 274; p. 464.

Crate, Collapsible poultry-. D. F. Black. No. 1,340,815; May 18; v. 274; p. 539.
Crate, Hog-breeding. A. W. Adix and G. W. Haglund. No. 1,340,357; May 18; v. 274; p. 453.
Cruller-forming die. F. L. Bradbury. No. 1,340,371; May 18; v. 274; p. 456.
Crushing-mill, Rotary. L. Ross. No. 1,340,407; May 18; v. 274; p. 463.
Crutches, artificial limbs, and sticks, Pad used on. F. C. Lynde. No. 1,340,616; May 18; v. 274; p. 503.
Crutches, artificial limbs, and sticks, Pads used on. F. C. Lynde. No. 1,340,617; May 18; v. 274; p. 503.
Culinary device. R. Seidl. No. 1,340,566; May 18; v. 274; p. 493.
Current, Apparatus and method for rectifying high-tension alternating. W. A. Schmidt and L. Bradley. No. 1,340,502; May 18; v. 274; p. 481.
Cutter: *See*—
Tooth-cutter.
Cutter. C. B. Sherlock and J. B. Morse. No. 1,340,800; May 18; v. 274; p. 537.
Cutting sheet material. C. B. Howard. No. 1,340,225; May 18; v. 274; p. 428.
Delivering apparatus. M. Bono. No. 1,340,748; May 18; v. 274; p. 527.
Diaphragm controller, Vibratory-. M. I. Williamson. No. 1,340,471; May 18; v. 274; p. 475.
Die: *See*—
Cruller-forming die.
Die. T. Lund. No. 1,340,235; May 18; v. 274; p. 430.
Diestock, Multiple. D. B. Igon. No. 1,340,227; May 18; v. 274; p. 429.
Differential gage. J. B. Wilkinson. No. 1,340,198; May 18; v. 274; p. 423.
Direction-indicator. L. A. Bean. No. 1,340,363; May 18; v. 274; p. 454.
Direction-indicator. R. B. Pollock. No. 1,340,343; May 18; v. 274; p. 451.
Disinfectant and odorizer. F. Lobl. No. 1,340,661; May 18; v. 274; p. 514.
Disintegrating-machine. H. Allen. No. 1,340,201; May 18; v. 274; p. 424.
Dispensing-machine. E. E. Bushell and M. E. Conkling. No. 1,340,822; May 18; v. 274; p. 541.
Display-carton. R. Van Iderstine. No. 1,340,744; May 18; v. 274; p. 526.
Display vending-vehicle, Refrigerator. P. L. Serwe and G. C. Dickey. No. 1,340,853; May 18; v. 274; p. 547.
Doll. G. J. Bernau. No. 1,340,848; May 18; v. 274; p. 546.
Doll. M. J. Duff. No. 1,340,160; May 18; v. 274; p. 417.
Door bumper, Automobile-. A. L. Miers. No. 1,340,621; May 18; v. 274; p. 504.
Door, Grain-. N. Smithback and W. H. Meier. No. 1,340,506; May 18; v. 274; p. 482.
Door-lock. E. H. O'Brien. No. 1,340,398; May 18; v. 274; p. 461.
Doughnut-making machine. J. C. Thomson. No. 1,340,805; May 18; v. 274; p. 538.
Draft-creating device. C. Flagstad. No. 1,340,865; May 18; v. 274; p. 549.
Draft-rigging, Producing yokes for. J. W. Dalman. No. 1,340,528; May 18; v. 274; p. 485.
Draft-rigging, Tandem. G. Q. Lewis. No. 1,340,490; May 18; v. 274; p. 478.
Dress-suit-case body-blanks, Machine for cutting and preparing. H. L. Plummer. No. 1,340,558; May 18; v. 274; p. 491.
Drill: *See*—
Power-drill. Rock-drill.
Drink-mixer. J. V. Buckle. No. 1,340,849; May 18; v. 274; p. 546.
Driving systems, Automatic controlling apparatus for. H. Pieper. No. 1,340,249; May 18; v. 274; p. 433.
Drum, Multiplex-sheave. J. N. Schiff. No. 1,340,297; May 18; v. 274; p. 442.
Dyestuff and making same. A. Angel. No. 1,340,696; May 18; v. 274; p. 518.
Earthenware articles, Making. W. S. Williams. No. 1,340,308; May 18; v. 274; p. 444.
Elbow-bending machine, Crimped-. J. M. Brown. No. 1,340,320; May 18; v. 274; p. 446.
Electric-conductor take-up. A. W. Hill. No. 1,340,268; May 18; v. 274; p. 436.
Electric furnace. T. F. Baily and F. T. Cope. No. 1,340,203; May 18; v. 274; p. 424.
Electric-light bracket. J. G. Jones. No. 1,340,273; May 18; v. 274; p. 437.
Electric-light regulator. L. and A. G. Sawyer-Soucy. No. 1,340,795; May 18; v. 274; p. 536.
Electric-motor regulator. G. H. Whittingham. No. 1,340,678; May 18; v. 274; p. 514.
Electric-motor regulator. G. H. Whittingham. No. 1,340,679; May 18; v. 274; p. 515.
Electric switch. D. L. O'Hara. No. 1,340,788; May 18; v. 274; p. 534.
Electric switch, Combination. H. A. Jones. No. 1,340,230; May 18; v. 274; p. 429.
Electrical apparatus. J. B. Wantz. No. 1,340,588; May 18; v. 274; p. 497.
Electrical oscillator. F. K. Vreeland. No. 1,340,193; May 18; v. 274; p. 423.
Electrical phenomena, System for recording. L. S. Wells. No. 1,340,197; May 18; v. 274; p. 423.
Electrolytic process. W. E. Greenawalt. No. 1,340,826; May 18; v. 274; p. 542.
Electromagnetic device. C. W. Burrows. No. 1,340,698; May 18; v. 274; p. 518.
Elevator: *See*—
Grain-elevator.
Elevator. G. B. Read. No. 1,340,253; May 18; v. 274; p. 433.
Elevator-lock. E. S. Miller. No. 1,340,664; May 18; v. 274; p. 512.
Emblem structure. T. P. Seastrunk. No. 1,340,465; May 18; v. 274; p. 474.
Enamel, Cooling. S. Wiester. No. 1,340,353; May 18; v. 274; p. 452.
Engine: *See*—
Explosion-engine. Internal-explosive engine.
Hydraulic donkey-engine. Turbine gas-engine.
Internal-combustion engine.
Engine guide, Compound-. F. G. Procunier. No. 1,340,740; May 18; v. 274; p. 526.
Engines, Auxiliary air-intake for internal-combustion. P. M. Orlopp. No. 1,340,734; May 18; v. 274; p. 524.
Engines, Balancing. L. F. G. Butler. No. 1,340,823; May 18; v. 274; p. 541.
Engines, Cold process of repairing radiators of internal-combustion. T. E. Henderson. No. 1,340,655; May 18; v. 274; p. 510.
Engines, Cylinder for internal-combustion. M. J. B. Barbarou. No. 1,340,647; May 18; v. 274; p. 509.
Engines, Valve timing-gear for explosive-. A. Barnes. No. 1,340,362; May 18; v. 274; p. 454.
Engines, Vaporizer for combustion-. W. H. Hayes. No. 1,340,444; May 18; v. 274; p. 470.
Envelop. E. F. Nissen. No. 1,340,554; May 18; v. 274; p. 491.
Excavating-machine. O. G. Petersen. No. 1,340,247; May 18; v. 274; p. 432.
Excavator, crusher, and vaporizer, Combination. W. A. Huelsdonk. No. 1,340,445; May 18; v. 274; p. 470.
Explosive-engine. J. P. Trego, Jr. No. 1,340,580; May 18; v. 274; p. 496.
Extractor: *See*—
Cork-extractor.
Eye-protector. G. H. Day. No. 1,340,701; May 18; v. 274; p. 519.
Fabrics, Apparatus for steaming. J. Grasser. No. 1,340,482; May 18; v. 274; p. 477.
Fabrics, Machine for forming tubular. H. D. Tracy. No. 1,340,425; May 18; v. 274; p. 467.
Faucet for dispensing high-pressure liquids. C. L. and F. W. Holderle. No. 1,340,769; May 18; v. 274; p. 531.
Feed-water regulator. W. H. Berry. No. 1,340,365; May 18; v. 274; p. 455.
Feed-water-regulator system. V. V. Veenschoten. No. 1,340,846; May 18; v. 274; p. 545.
Fence-machine. J. M. Denning. No. 1,340,530; May 18; v. 274; p. 486.
Fender: *See*—
Vehicle-fender.
Fertilizer and manufacture of same. M. Fjellanger. No. 1,340,708; May 18; v. 274; p. 520.
Fertilizer-distributer. C. H. Travis. No. 1,340,806; May 18; v. 274; p. 538.
Filing-case, Metal. F. A. Sandmann. No. 1,340,562; May 18; v. 274; p. 492.
Fire-alarm switch. G. F. Miller. No. 1,340,729; May 18; v. 274; p. 523.
Fire-escape, Portable. G. A. Blake. No. 1,340,146; May 18; v. 274; p. 414.
Fire-extinguisher. A. L. Cole. 1,340,376; May 18; v. 274; p. 457.
Fires, Apparatus for generating foam for extinguishing. J. B. and O. R. Erwin. No. 1,340,601; May 18; v. 274; p. 500.
Firearms, Device for aiming. S. Tousey. No. 1,340,579; May 18; v. 274; p. 495.
Firing device, Automatic. O. Kelly. No. 1,340,274; May 18; v. 274; p. 437.
Fireproof window. J. W. Yates. No. 1,340,312; May 18; v. 274; p. 444.
Fireproof-window-closing means. J. W. Yates. No. 1,340,311; May 18; v. 274; p. 444.
Fish, Means and method of catching. P. Whitehead. No. 1,340,677; May 18; v. 274; p. 514.
Fishhook. K. Leon. No. 1,340,780; May 18; v. 274; p. 533.
Flaker. W. D. Mount. No. 1,340,732; May 18; v. 274; p. 524.
Flexible tube. L. H. Brinkman. No. 1,340,818; May 18; v. 274; p. 540.
Float. W. Sparks. No. 1,340,572; May 18; v. 274; p. 494.
Floor construction, Reinforced-concrete. W. M. Pratt. No. 1,340,291; May 18; v. 274; p. 440.
Fly-killing device. G. M. Hannon. No. 1,340,767; May 18; v. 274; p. 530.
Flytrap. W. J. Lee. No. 1,340,779; May 18; v. 274; p. 533.
Footwear, Apparatus for treating. N. M. Hopkins. No. 1,340,544; May 18; v. 274; p. 489.
Fractionating compound substances containing ingredients of closely-related solubility. A. Seidenberg. No. 1,340,186; May 18; v. 274; p. 421.

Frame: *See*—
Motorcycle spring-frame.
Freight-stacking elevator, Portable. G. F. Nicholson and G. Whitestone. No. 1,340,458; May 18; v. 274; p. 472.
Frog foot-guard. G. W. Vaughan. No. 1,340,582; May 18; v. 274; p. 496.
Frost-casing. J. R. Fitzpatrick. No. 1,340,332; May 18; v. 274; p. 448.
Fuel-burning apparatus. A. Doble. No. 1,340,383; May 18; v. 274; p. 458.
Fuel machine, Artificial-. J. Schaub. No. 1,340,463; May 18; v. 274; p. 473.
Furnace: *See*—
Electric furnace.
Furnace. W. Lloyd. No. 1,340,549; May 18; v. 274; p. 490.
Furnace. W. Lloyd. No. 1,340,725; May 18; v. 274; p. 523.
Furnace, Controlling the thickness of walls in an electric. C. H. Chapman. No. 1,340,155; May 18; v. 274; p. 416.
Furnace, stove, and the like, Hot-air. C. Hiller. No. 1,340,340; May 18; v. 274; p. 450.
Furnaces, Slagging-machine for. E. W. Clark and F. C. Clarke. No. 1,340,156; May 18; v. 274; p. 416.
Furniture, Convertible. V. Tiffin. No. 1,340,467; May 18; vol. 274; p. 474.
Gage: *See*—
Dental gage. Pressure-gage.
Galvanic cell. C. A. R. Graamans. No. 1,340,222; May 18; v. 274; p. 428.
Game. F. W. Hudson. No. 1,340,612; May 18; v. 274; p. 502.
Garment-hanger support. C. L. Seidenberg. No. 1,340,565; May 18; v. 274; p. 493.
Garment, Hospital or sleeping. V. Dean. No. 1,340,381; May 18; v. 274; p. 458.
Garment, Outer. R. A. Whall. No. 1,340,351; May 18; v. 274; p. 452.
Garter. R. W. Merritt. No. 1,340,455; May 18; v. 274; p. 472.
Gas-analysis apparatus. O. Rodhe. No. 1,340,838; May 18; v. 274; p. 544.
Gas-burner. D. B. Igou. No. 1,340,226; May 18; v. 274; p. 429.
Gas-burners, Delayed cut-off for Bunsen. R. D. Smith. No. 1,340,843; May 18; v. 274; p. 545.
Gas, Producing carbon-hydrogen. T. O'Connell. No. 1,340,495; May 18; v. 274; p. 479.
Gasolene or light vapors, Art of and appliances for cooling and condensing. A. A. Wehr. No. 1,340,427; May 18; v. 274; p. 467.
Gear, Locomotive driving-. G. R. France. No. 1,340,762; May 18; v. 274; p. 530.
Gearing, Transmission-. R. E. Jackson and B. O. Yearwood. No. 1,340,486; May 18; v. 274; p. 478.
Glass-working machine. A. L. Bingham. No. 1,340,366; May 18; v. 274; p. 455.
Gold-saving receptacle. I. A. Burnett. No. 1,340,213; May 18; v. 274; p. 426.
Grading-machine. J. R. Pile. No. 1,340,497; May 18; v. 274; p. 480.
Grain-elevator. D. Groenewold. No. 1,340,606; May 18; v. 274; p. 501.
Grain-shocker. Automatic. A. P. Lofstrand. No. 1,340,781; May 18; v. 274; p. 533.
Grapples or tongs, Logging. A. J. Zipp. No. 1,340,313; May 18; v. 274; p. 445.
Gun. J. Pacifico. No. 1,340,791; May 18; v. 274; p. 535.
Gun for discharging projectiles by gases supplied thereto under pressure. T. and J. E. Thornycroft. No. 1,340,689; May 18; v. 274; p. 517.
Gun, Grease-. J. G. MacGregor. No. 1,340,726; May 18; v. 274; p. 523.
Gun-supporting platform. E. Schneider. No. 1,340,415; May 18; v. 274; p. 465.
Hair, Process of and appliances for curling. A. Pausser. No. 1,340,738; May 18; v. 274; p. 525.
Halter. P. W. Jensen. No. 1,340,271; May 18; v. 274; p. 437.
Hammer, Pneumatic riveting-. J. H. Way. No. 1,340,196; May 18; v. 274; p. 423.
Handling apparatus. M. F. Bayer. No 1,340,648; May 18; v. 274; p. 509.
Hanger and frame-protector, Combination. J. Greenwald. No. 1,340,711; May 18; v. 274; p. 520.
Harp, Trolley-. J. Miller. No. 1,340,456; May 18; v. 274; p. 472.
Harvester, Egyptian corn, Milo maize, &c. R. A. Botts. No. 1,340,816; May 18; v. 274; p. 540.
Hatchet. J. W. Olney. No. 1,340,401; May 18; v. 274; p. 462.
Hay-cocking machine. J. A. France. No. 1,340,763; May 18; v. 274; p. 530.
Hay-press. A. Fiset. No. 1,340,388; May 18; v. 274; p. 459.
Hay-sweep attachment. L. Hoesing. No. 1,340,391; May 18; v. 274; p. 460.
Headlight control. S. E. Jacoby and C. J. Edmonds. No. 1,340,771; May 18; v. 274; p. 531.
Heat-exchanger. H. D. Hildebrand. No. 1,340,266; May 18; v. 274; p. 436.
Heat, Exchanging. H. D. Hildebrand. No. 1,340,267; May 18; v. 274; p. 436.
Heater: *See*—
Automobile-heater. Silo-heater.
Manifold-heater.
Heater. A. A. Cardwell. No. 1,340,153; May 18; v. 274; p. 416.
Heaters, Automatic electric switch or circuit-controlling mechanism for electric fluid-. A. Papini. No. 1,340,668; May 18; v. 274; p. 513.
Heaters, Thermostat-controller for hot-water gas-. E. M. Youngman. No. 1,340,513; May 18; v. 274; p. 483.
Heel. A. H. Sommers. No. 1,340,571; May 18; v. 274; p. 494.
Hinge. E. D. Bump. No. 1,340,151; May 18; v. 274; p. 415.
Hinge. E. E. Witter. No. 1,340,866; May 18; v. 274; p. 549.
Hinge and door fastening, Security sheath. F. Wright. No. 1,340,430; May 18; v. 274; p. 468.
Hinge, Cold-storage-door adjustable. A. N. Hornung. No. 1,340,862; May 18; v. 274; p. 548.
Hoist control. A. J. Nicht, Jr. No. 1,340,240; May 18; v. 274; p. 431.
Hoisting machinery, Automatic control mechanism for. D. G. Stafford. No. 1,340,301; May 18; v. 274; p. 442.
Hone-holder. J. A. Colbert. No. 1,340,751; May 18; v. 274; p. 528.
Hook and eye. E. N. Gaillard. No. 1,340,334; May 18; v. 274; p. 449.
Hook-and-eye fastener. S. W. Yeats. No. 1,340,858; May 18; v. 274; p. 547.
Horseshoe. J. Grabowski. No. 1,340,764; May 18; v. 274; p. 530.
Hose coupling, Air-. C. M. Brown. No. 1,340,820; May 18; v. 274; p. 540.
Hose-supporter. W. F. Watson. No. 1,340,745; May 18; v. 274; p. 527.
Hot-water or ice bag. W. Moehle. No. 1,340,236; May 18; v. 274; p. 431.
Huller: *See*—
Pea-huller.
Hydrant, Water-. W. F. Whitmore. No. 1,340,352; May 18; v. 274; p. 452.
Hydraulic donkey-engine. F. E. Kenney. No. 1,340,547; May 18; v. 274; p. 489.
Hydropneumatic device. R. Liebau. No. 1,340,233; May 18; v. 274; p. 430.
Ice-cans, Water-controlling mechanism for. T. Birkenmaier. No. 1,340,814; May 18; v. 274; p. 539.
Implement-holder. F. W. Hawkes. No. 1,340,224; May 18; v. 274; p. 428.
Index. J. H. Rand. No. 1,340,251; May 18; v. 274; p. 433.
Index. J. F. Ryan. No. 1,340,410; May 18; v. 274; p. 463.
Index, Card-. S. Anthony. No. 1,340,140; May 18; v. 274; p. 413.
Index system, Card-. J. W. Downing. No. 1,340,384; May 18; v. 274; p. 458.
Indicating device. F. P. Blair, C. L. Dows, and G. S. Merrill. No. 1,340,145; May 18; v. 274; p. 414.
Indicator: *See*—
Direction-indicator. Piano note-indicator.
Ingot-pouring mechanism. S. B. Sheldon. No. 1,340,422; May 18; v. 274; p. 466.
Inhaler. F. Lobl. No. 1,340,662; May 18; v. 274; p. 511.
Insole. G. L. Preble. No. 1,340,404; May 18; v. 274; p. 462.
Insole-rounding machine. C. C. Blake. No. 1,340,520; May 18; v. 274; p. 484.
Insulators, Manufacturing. P. J. H. Bernard. No. 1,340,812; May 18; v. 274; p. 539.
Insulators, Manufacturing. P. J. H. Bernard. No. 1,340,813; May 18; v. 274; p. 539.
Internal-combustion engine. C. F. Jeffries. No. 1,340,229; May 18; v. 274; p. 429.
Internal-combustion engine, Combination reciprocal and turbine. F. E. Covey. No. 1,340,527; May 18; v. 274; p. 485.
Internal-combustion motor. H. M. Holze. No. 1,340,223; May 18; v. 274; p. 428.
Internal-explosive engine. R. R. Dietrich. No. 1,340,651; May 18; v. 274; p. 509.
Iron and steel, Manufacture of. H. Lang. No. 1,340,548; May 18; v. 274; p. 489.
Ironing-board, Folding. R. Fox. No. 1,340,265; May 18; v. 274; p. 436.
Ironing-machine. C. E. Capman. No. 1,340,522; May 18; v. 274; p. 484.
Irrigator shut-off. E. Heap. No. 1,340,828; May 18; v. 274; p. 542.
Jack: *See*—
Automobile-jack. Vehicle-jack.
Jar-seal tester. E. B. Birkenbeuel. No. 1,340,473; May 18; v. 274; p. 475.
Joint: *See*—
Universal joint. Welded joint.
Key and container. H. R. Holbrook. No. 1,340,850; May 18; v. 274; p. 546.
Kiln. J. W. Silva. No. 1,340,633; May 18; v. 274; p. 506.
Knitted webs, Apparatus for treating. F. S. Wilcox. No. 1,340,809; May 18; v. 274; p. 538.
Knitting-machine. E. U. Ames. No. 1,340,695; May 18; v. 274; p. 518.

Knitting-machines, Anti-thread-ballooning device for. A. M. Pigeon. No. 1,340,681; May 18; v. 274; p. 515.
Knockdown box. A. G. Petit. No. 1,340,248; May 18; v. 274; p. 433.
Ladder. L. Powell. No. 1,340,627; May 18; v. 274; p. 505.
Ladder, Sectional tube-. J. A. Thollander. No. 1,340,688; May 18; v. 274; p. 516.
Lamp. C. E. Godley. No. 1,340,163; May 18; v. 274; p. 417.
Lamp-adjuster. K. Watanabe. No. 1,340,195; May 18; v. 274; p. 423.
Lamp, Battery hand-. T. J. Madigan. No. 1,340,550; May 18; v. 274; p. 490.
Lamp, Gas-mantle. T. H. Stafford. No. 1,340,424; May 18; v. 274; p. 466.
Lamp, Picture-projection. W. G. Preddey. No. 1,340,499; May 18; v. 274; p. 480.
Lard-dispensing machine. H. W. Williams. No. 1,340,590; May 18; v. 274; p. 498.
Latch. P. Gazzi. No. 1,340,605; May 18; v. 274; p. 501.
Lathe-stopping mechanism. E. C. Ballman. No. 1,340,811; May 18; v. 274; p. 539.
Laundry-tub. A. M. Neilsen. No. 1,340,852; May 18; v. 274; p. 546.
Lay figures, Arms for exhibition. P. Imans. No. 1,340,446; May 18; v. 274; p. 470.
Leather, Detanning chrome-. M. C. Lamb. No. 1,340,721; May 18; v. 274; p. 522.
Leather-working machine. F. W. Tucker. No. 1,340,262; May 18; v. 274; p. 435.
Ledger. J. C. Dawson. No. 1,340,157; May 18; v. 274; p. 416.
Lens. H. W. Hill. No. 1,340,715; May 18; v. 274; p. 521.
Lens. E. D. Tillyer. No. 1,340,189; May 18; v. 274; p. 422.
License-plate holder. G. W. Emmert. No. 1,340,387; May 18; v. 274; p. 459.
Lighting-fixture. H. E. Gleason. No. 1,340,443; May 18; v. 274; p. 470.
Lighting-fixture. J. T. Thompson. No. 1,340,261; May 18; v. 274; p. 435.
Lightning-arrester. E. Jacobus. No. 1,340,657; May 18; v. 274; p. 510.
Limb, Artificial. G. Nelson. No. 1,340,239; May 18; v. 274; p. 431.
Line-lock. S. N. Lind. No. 1,340,851; May 18; v. 274; p. 546.
Liquid-fuel burner. E. H. Tate. No. 1,340,803; May 18; v. 274; p. 537.
Liquid-meter. P. J. Roach and D. Carter. No. 1,340,293; May 18; v. 274; p. 441.
Liquids, Apparatus and process for the continuous distillation of. F. I. Gibson. No. 1,340,653; May 18; v. 274; p. 510.
Litter-carriers, Swing-pole track-hinge for. W. S. Beaty. No. 1,340,208; May 18; v. 274; p. 425.
Lock: *See*—
Automobile-lock. Permutation-lock.
Door-lock. Pin-tumbler lock.
Elevator-lock. Sash-lock.
Nut-lock. Time-lock.
Locomotive, Oil-burning. J. T. Anthony. No. 1,340,202; May 18; v. 274; p. 424.
Looms, Thread-parting mechanism for. W. L. Barrell. No. 1,340,207; May 18; v. 274; p. 425.
Lubricants, Making. C. H. Bierbaum. No. 1,340,316; May 18; v. 274; p. 445.
Lubricator: *See*—
Car-axle lubricator.
Machine-tools, Feeding mechanism for. L. E. Waite. No. 1,340,584; May 18; v. 274; p. 497.
Machine-tools, Spindle-driving mechanism for. L. E. Waite. No. 1,340,585; May 18; v. 274; p. 497.
Machine-tools, Quick-traverse mechanism for feeds for. L. E. Waite. No. 1,340,586; May 18; v. 274; p. 497.
Magnetic material, Apparatus for separating. E. Newton. No. 1,340,457; May 18; v. 274; p. 472.
Magneto-coupling, Flexible adjustable. R. D. Hills. No. 1,340,610; May 18; v. 274; p. 502.
Mail-box support or holder, Rural-. M. L. Vick. No. 1,340,426; May 18; v. 274; p. 467.
Mail-delivery apparatus. J. Rushing. No. 1,340,840; May 18; v. 274; p. 544.
Manifold-heater. C. S. Horton. No. 1,340,770; May 18; v. 274; p. 531.
Mausoleums, Wall construction for. W. E. Hughes and J. B. King. No. 1,340,656; May 18; v. 274; p. 510.
Measure, Rouge-powder. W. G. Kendall. No. 1,340,275; May 18; v. 274; p. 437.
Measuring device, Rope-. F. A. Ellis, Jr. No. 1,340,218; May 18; v. 274; p. 427.
Measuring instrument. E. H. Bristol. No. 1,340,148; May 18; v. 274; p. 415.
Metallurgical process. A. Foss and B. F. Halvorsen. No. 1,340,480; May 18; v. 274; p. 477.
Meter: *See*—
Liquid-meter.
Milk-boiler. M. Hankulich. No. 1,340,336; May 18; v. 274; p. 449.
Mill: *See*—
Coffee-grinding mill. Mixing-mill.
Crushing-mill.
Milling-machine attachment. C. F. Schmelzer. No. 1,340,741; May 18; v. 274; p. 526.
Mills, Cage construction for. M. F. Williams. No. 1,340,643; May 18; v. 274; p. 508.
Mine, Submarine. T. K. North. No. 1,340,288; May 18; v. 274; p. 440.
Mining and loading machine. E. C. Morgan. No. 1,340,731; May 18; v. 274; p. 524.
Mixer: *See*—
Drink-mixer.
Mixing-mill. J. Schaub. No. 1,340,464; May 18; v. 274; p. 473.
Molders, Spindle adjustment for motor-driven. M. B. Gathman and R. D. Eaglesfield. No. 1,340,709; May 18; v. 274; p. 520.
Molding-machine. W. P. Krause. No. 1,340,658; May 18; v. 274; p. 511.
Molding plastic materials. D. S. Landstra. No. 1,340,452; May 18; v. 274; p. 471.
Motor: *See*—
Internal-combustion motor.
Motor-control system. R. I. Wright. (Reissue.) No. 14,861; May 18; v. 274; p. 550.
Motorcycle spring-frame. R. E. Walker. No. 1,340,508; May 18; v. 274; p. 482.
Mud-lug. B. M. Mathias. No. 1,340,834; May 18; v. 274; p. 543.
Muffler cut-outs, Hand-operating device for. G. H. Taber. No. 1,340,802; May 18; v. 274; p. 537.
Muffler, Exhaust-. S. E. Delavan. No. 1,340,158; May 18; v. 274; p. 417.
Music-roll. P. S. McLean. No. 1,340,175; May 18; v. 274; p. 420.
Musical instrument, Stringed. E. Re. No. 1,340,628; May 18; v. 274; p. 505.
Nail-driving implement. A. J. De Lander. No. 1,340,705; May 18; v. 274; p. 519.
Nail-packing machinery. T. Alexander. No. 1,340,200; May 18; v. 274; p. 424.
Name-plate. C. H. Lane and J. H. Steele. No. 1,340,778; May 18; v. 274; p. 533.
Needle, Knitting-. L. D. Schoolfield. No. 1,340,255; May 18; v. 274; p. 434.
Nipples, Making spoke-. J. H. Graham. No. 1,340,166; May 18; v. 274; p. 418.
Nut-lock. B. G. Patterson. No. 1,340,496; May 18; v. 274; p. 480.
Nut-locking device. G. S. Evans. No. 1,340,602; May 18; v. 274; p. 500.
Odometer. C. F. Miller. No. 1,340,493; May 18; v. 274; p. 479.
Odontometer. P. N. Williams. No. 1,340,354; May 18; v. 274; p. 453.
Oil, Apparatus for the distillation of. S. D. Faust. No. 1,340,532; May 18; v. 274; p. 486.
Oil-cracking apparatus. W. B. Poole. No. 1,340,793; May 18; v. 274; p. 535.
Oil from chips, Centrifugal machine for separating. J. W. Pittock. No. 1,340,682; May 18; v. 274; p. 515.
Oiler. E. M. Reid. No. 1,340,406; May 18; v. 274; p. 463.
Oiler, Saw-. J. G. Speer. No. 1,340,742; May 18; v. 274; p. 526.
Oiling system. C. F. Schell. No. 1,340,687; May 18; v. 274; p. 516.
Ordnance-breech mechanism. A. L. Dawson and G. T. Buckham. No. 1,340,215; May 18; v. 274; p. 427.
Overshoe, Baseball-. J. B. Yarnell and H. Frank. No. 1,340,356; May 18; v. 274; p. 453.
Pad: *See*—
Umbrella-tip pad.
Pan: *See*—
Baking-pan. Pump overflow-pan.
Paper-bag holder. J. C. Groff. No. 1,340,335; May 18; v. 274; p. 449.
Paper-clip. J. J. O'Brien. No. 1,340,180; May 18; v. 274; p. 420.
Parachute. F. Smith. No. 1,340,423; May 18; v. 274; p. 466.
Parachute. J. W. Taylor. No. 1,340,259; May 18; v. 274; p. 434.
Passageway and for making and laying a pipe in same, Apparatus for making an underground. R. Powell. No. 1,340,836; May 18; v. 274; p. 543.
Pasteurizer. J. C. Miller. No. 1,340,177; May 18; v. 274; p. 420.
Patterns, Multiple reproduction of. G. Piccioni. No. 1,340,460; May 18; v. 274; p. 473.
Pea-huller. F. Hamachek. No. 1,340,607; May 18; v. 274; p. 501.
Pen, Fountain-. D. J. La France and W. P. De Witt. No. 1,340,277; May 18; v. 274; p. 438.
Pencil. H. L. Fischer. No. 1,340,331. May 18; v. 274; p. 448.
Permutation-lock. A. L. Vears. No. 1,340,583; May 18; v. 274; p. 496.
Phonograph-mount. C. H. E. Boughton. No. 1,340,369; May 18; v. 274; p. 456.
Phonograph-needles, Machine for making. G. T. Ojum. No. 1,340,400; May 18; v. 274; p. 461.
Phonograph-record-filing device. R. J. Bentley. No. 1,340,364; May 18; v. 274; p. 455.
Phonograph-resetting device. T. Ahearn. No. 1,340,358; May 18; v. 274; p. 453.

Photographic-printing apparatus. G. C. Beidler. No. 1,340,209; May 18; v. 274; p. 425.
Photoprinting-machine. F. H. White. No. 1,340,511; May 18; v. 274; p. 482.
Piano-note indicator. S. Siegel. No. 1,340,569; May 18; v. 274; p. 493.
Piano-pedal. J. Giglio. No. 1,340,162; May 18; v. 274; p. 417.
Piling, Reinforced-concrete. C. E. Nagel. No. 1,340,397; May 18; v. 274; p. 461.
Pin: *See*—
Corn-husker pin.
Pin and clasp, Combined safety-. C. Fisher. No. 1,340,533; May 18; v. 274; p. 486.
Pin tumbler-lock. F. E. Thompson. No. 1,340,804; May 18; v. 274; p. 538.
Pipe-puller. J. T. Simmons. No. 1,340,676; May 18; v. 274; p. 514.
Pipe-testing and leak-finding device. P. Meyer. No. 1,340,176; May 18; v. 274; p. 420.
Pipe-wrench. I. W. Nonneman. No. 1,340,622; May 18; v. 274; p. 504.
Pipes, Repair-plug for. G. T. Harvey. No. 1,340,167; May 18; v. 274; p. 418.
Pipettes, Holder and carrier for blood-. T. Lidberg. No. 1,340,660; May 18; v. 274; p. 511.
Piston-centering device. J. A. Scott. No. 1,340,841; May 18; v. 274; p. 544.
Piston packing-ring. J. P. Deranek. No. 1,340,650; May 18; v. 274; p. 509.
Planer, Double-acting metal. C. A. Snider. No. 1,340,256; May 18; v. 274; p. 434.
Plate-manipulator. F. C. Biggert, Jr. No. 1,340,594; May 18; v. 274; p. 499.
Plow or cultivator, Garden. J. G. Lundy. No. 1,340,784; May 18; v. 274; p. 534.
Plow-shovel, Reversible. C. H. Ingham and W. H. Wilcox. No. 1,340,392; May 18; v. 274; p. 460.
Plug, Attachment-. G. W. Goodridge. No. 1,340,856; May 18; v. 274; p. 547.
Plug, Wall-. W. and C. Cordery. No. 1,340,752; May 18; v. 274; p. 528.
Pocketed carrier. F. R. Batchelder. No. 1,340,141; May 18; v. 274; p. 413.
Pocketed carrier. F. R. Batchelder. No. 1,340,142; May 18; v. 274; p. 413.
Portfolio-drawer. F. S. Braid. No. 1,340,319; May 18; v. 274; p. 445.
Potato-receptacle. C. E. Scott. No. 1,340,798; May 18; v. 274; p. 537.
Power device. S. C. Metzger. No. 1,340,620; May 18; v. 274; p. 503.
Power-drill. J. C. H. Vaught. No. 1,340,468; May 18; v. 274; p. 474.
Power-presses, Safety control for. M. C. France. No. 1,340,333; May 18; v. 274; p. 448.
Power-shovel. C. A. Pratt. No. 1,340,498; May 18; v. 274; p. 480.
Power transmission. R. Lindbloom. No. 1,340,833; May 18; v. 274; p. 543.
Power-transmission device. M. K. Ingoldby. No. 1,340,447; May 18; v. 274; p. 471.
Press: *See*—
Hay-press.
Pressing-machine. S. E. Baltary. No. 1,340,519; May 18; v. 274; p. 484.
Pressure-gage. O. Ohlson. No. 1,340,399; May 18; v. 274; p. 461.
Priming device. P. J. McIntyre. No. 1,340,281; May 18; v. 274; p. 438.
Printing and inking device. H. G. Davis. No. 1,340,380; May 18; v. 274; p. 458.
Printing-press impression-cylinder. J. J. Walser. No. 1,340,194; May 18; v. 274; p. 423.
Printing-presses, Safety device for. H. A. W. Wood. No. 1,340,355; May 18; v. 274; p. 453.
Printing-surfaces, Art and apparatus for making. S. H. Horgan. No. 1,340,342; May 18; v. 274; p. 450.
Puddle-balls and furnaces therefor, Making. F. F. Waechter. No. 1,340,690; May 18; v. 274; p. 517.
Puller: *See*—
Beet-puller. Pipe-puller.
Pulley, Friction-clutch. A. E. Rhoades. No. 1,340,559; May 18; v. 274; p. 492.
Pulley, Centrifugally-governed clutch-. G. D. Harris. (Reissue.) No. 14,857; May 18; v. 274; p. 549.
Pump. A. Boulade. No. 1,340,596; May 18; v. 274; p. 499.
Pump. A. Boulade. No. 1,340,597; May 18; v. 274; p. 499.
Pump. J. L. Johnson. No. 1,340,545; May 18; v. 274; p. 489.
Pump attachment, Motor-. B. D. Gilson. No. 1,340,389; May 18; v. 274; p. 459.
Pump, Condenser system and vacuum-. J. F. Grace. No. 1,340,165; May 18; v. 274; p. 418.
Pump connection, Tire-. J. B. McMullin. No. 1,340,785; May 18; v. 274; p. 534.
Pump, Deep-well. H. J. and W. R. Woock. No. 1,340,472; May 18; v. 274; p. 475.
Pump overflow-pan. K. J. W. Freitag and H. D. Ainsworth. No. 1,340,534; May 18; v. 274; p. 487.
Pump, Rotary. A. E. Shiner. No. 1,340,632; May 18; v. 274; p. 506.
Pumps, Constructing air-. A. M. Sonnichsen. No. 1,340,844; May 18; v. 274; p. 545.
Quick-opening separable fastener. G. Sundback. No. 1,340,187; May 18; v. 274; p. 422.
Radiator. E. C. Dennert. No. 1,340,382; May 18; v. 274; p. 458.
Radiator. F. Johnson. No. 1,340,774; May 18; v. 274; p. 532.
Radiator-core plate. C. F. Spery. No. 1,340,258; May 18; v. 274; p. 434.
Radiators, Nipple-coupling for. V. R. O'Brien and W. N. Parks. No. 1,340,289; May 18; v. 274; p. 440.
Radiators, Temperature-indicator for automobile-. W. F. Jenkins. No. 1,340,830; May 18; v. 274; p. 542.
Rail-clamp. R. F. Brown. No. 1,340,598; May 18; v. 274; p. 499.
Railway-crossing. C. Clark. No. 1,340,750; May 18; v. 274; p. 527.
Range, Combination gas-. R. Lawa. No. 1,340,615; May 18; v. 274; p. 502.
Reproducer. C. C. Shigley. No. 1,340,298. May 18; v. 274; p. 442.
Resawing-machine, Twin circular. J. A. Neal. No. 1,340,286; May 18; v. 274; p. 439.
Rifle-grenade sight. P. Lera. No. 1,340,453; May 18; v. 274; p. 471.
Rail. W. McClenahan. No. 1,340,454; May 18; v. 274; p. 472.
Railway-crossing. S. Balkwill. No. 1,340,205; May 18; v. 274; p. 425.
Railway safety control, Automatic. L. F. Hellmann and W. W. Baxter. No. 1,340,861; May 18; v. 274; p. 548.
Recorder: *See*—
Time-recorder.
Reel: *See*—
Clothes-reel. Winding-reel.
Refrigerating apparatus. A. P. Anderson. No. 1,340,646; May 18; v. 274; p. 508.
Register: *See*—
Ticket-issuing register.
Regulator: *See*—
Electric-light. Feed-water regulator.
Electric-motor regulator.
Rheostat, Liquid. A. J. Nicht, Jr. No. 1,340,241; May 18; v. 274; p. 432.
Rim, Demountable. E. J. Osborne. No. 1,340,244; May 18; v. 274; p. 432.
Rim, Demountable. J. S. Pierce. No. 1,340,671; May 18; v. 274; p. 513.
Ring: *See*—
Piston packing-ring. Spring-ring.
Rivet-head catcher. H. J. Morley and G. L. Green. No. 1,340,787; May 18; v. 274; p. 534.
Riveting-machine and process of riveting. J. P. Badenhausen. No. 1,340,361; May 18; v. 274; p. 454.
Rock-drill. W. A. Smith. No. 1,340,565; May 18; v. 274; p. 481.
Rod: *See*—
Connecting-rod.
Roll, Seaming-. C. T. Small. No. 1,340,842; May 18; v. 274; p. 544.
Roof-bracket. P. P. Melanson. No. 1,340,492; May 18; v. 274; p. 479.
Roofing element. C. E. Rahr. No. 1,340,347; May 18; v. 274; p. 451.
Rope and cable attachment. T. C. Moore. No. 1,340,730; May 18; v. 274; p. 524.
Rotary machine. B. R. Planche. No. 1,340,625; May 18; v. 274; p. 504.
Rubber waste, Apparatus for reclaiming. F. L. Kryder. No. 1,340,776; May 18; v. 274; p. 532.
Rubber waste, Reclaiming and regenerating. F. L. Kryder. No. 1,340,777; May 18; v. 274; p. 533.
Safety-deposit box, Household. C. M. Cott. No. 1,340,377; May 18; v. 274; p. 457.
Sanitation appliance. C. H. Henderson. No. 1,340,338; May 18; v. 274; p. 449.
Sash-lock. B. Ruczynski. No. 1,340,462; May 18; v. 274; p. 473.
Scaffold-hanging apparatus, Safety. J. Udovich. No. 1,340,191; May 18; v. 274; p. 422.
Scale. W. W. Boyd. No. 1,340,318; May 18; v. 274; p. 445.
Screen: *See*—
Window-screen.
Screen-door brace. C. A. Elliott. No. 1,340,161; May 18; v. 274; p. 417.
Shingle, Roof-. C. E. Rahr. No. 1,340,348; May 18; v. 274; p. 451.
Shingle-strips, Making. F. C. Overbury. No. 1,340,402; May 18; v. 274; p. 462.
Shoe, Spudding-. W. L. Settle. No. 1,340,420; May 18; v. 274; p. 466.
Shovel: *See*—
Plow-shovel Power-shovel.
Shuttle-tension. R. E. Enos. No. 1,340,330; May 18; v. 274; p. 448.
Signal: *See*—
Automobile-signal.
Signal device for motor-vehicles. J. M. Rice. No. 1,340,292; May 18; v. 274; p. 440.
Slicing-machines, Operating mechanism for. E. K. Hood. No. 1,340,829; May 18; v. 274; p. 542.

Soap-dish. T. R. Conner. No. 1,340,327; May 18; v. 274; p. 447.
Sole. H. K. Hitchcock. No. 1,340,341; May 18; v. 274; p. 450.
Sound-box. E. T. Turney. No. 1,340,854; May 18; v. 274; p. 547.
Sound-box, Floating-weight. E. Cassea. No. 1,340,436; May 18; v. 274; p. 469.
Spindle and casing for music-rolls, Combined. M. B. Peal. (Reissue.) No. 14,860; May 18; v. 274; p. 550.
Spring: *See*—
Bed-spring.
Spring-ring. F. A. Ballou, Jr. No. 1,340,206; May 18; v. 274; p. 425.
Stand: *See*—
Collapsible stand. Watch-stand.
Steam-boiler. E. R. Morrison. (Reissue.) No. 14,859; May 18; v. 274; p. 550.
Steel sheets, Manufacture of. V. B. Browne. No. 1,340,149; May 18; v. 274; p. 415.
Stethoscope, Motor-. O. Smiley. No. 1,340,299; May 18; v. 274; p. 442.
Stethoscope, Motor-. O. Smiley. No. 1,340,300; May 18; v. 274; p. 442.
Stop, Automatic safety-. H. C. Taylor. No. 1,340,305; May 18; v. 274; p. 443.
Stop mechanism. R. L. Campbell. No. 1,340,152; May 18; v. 274; p. 415.
Stopper: *See*—
Bottle-stopper.
Stove. J. Bilan. No. 1,340,367; May 18; v. 274; p. 455.
Stove, Portable cooking-. M. L. Seymour. No. 1,340,421; May 18; v. 274; p. 466.
Strap and fastening. F. W. Thorne. No. 1,340,350; May 18; v. 274; p. 452.
Switch. S. E. Perkins. No. 1,340,403; May 18; v. 274; p. 462.
Sadiron. O. Spahr. No. 1,340,257; May 18; v. 274; p. 434.
Sanding device. P. W. Miles. No. 1,340,728; May 18; v. 274; p. 523.
Sanitary fixture. W. E. Hinsdale. No. 1,340,611; May 18; v. 274; p. 502.
Scale for weighing mail-matter. F. W. McArdle. No. 1,340,280; May 18; v. 274; p. 438.
Seat-support. F. M. Crabill. No. 1,340,753; May 18; v. 274; p. 528.
Seats, Attachment for automobile-. J. H. Deering. No. 1,340,754; May 18; v. 274; p. 528.
Seeding apparatus. R. H. Griswold and A. W. Hammond. No. 1,340,654; May 18; v. 274; p. 510.
Sewing-machines, Folder or seam-opener for. W. J. Loggie. No. 1,340,782; May 18; v. 274; p. 533.
Sharpening or honing ordinary or safety razors, blades, or other light cutting-tools, Device for. H. Watson. No. 1,340,509; May 18; v. 274; p. 482.
Sharpening pick, Millstone-. J. T. Whitener. No. 1,340,589; May 18; v. 274; p. 498.
Shell, Shot-gun. H. T. Peck. No. 1,340,245; May 18; v. 274; p. 432.
Shells, Detonator for high-explosive. E. Gathmann. No. 1,340,536. May 18; v. 274; p. 487.
Sheet-metal wheel. H. J. Foster and E. Gruenfeldt. No. 1,340,220; May 18; v. 274; p. 428.
Sheet-registering device. H. E. Leonard. No. 1,340,723; May 18; v. 274; p. 522.
Sheet-registering machine. H. E. Leonard. No. 1,340,722; May 18; v. 274; p. 522.
Shoe-dauber. J. F. Kelly. No. 1,340,775; May 18; v. 274; p. 532.
Shoe-lace tip. J. Pavelka. No. 1,340,669; May 18; v. 274; p. 513.
Shoe, Laced. A. L. Schopper. No. 1,340,503; May 18; v. 274; p. 481.
Shop-control system. J. F. Diepenbrock. No. 1,340,216; May 18; v. 274; p. 427.
Shuttle. J. C. Shambow. No. 1,340,568; May 18; v. 274; p. 493.
Silo-heater. A. J. Johnson. No. 1,340,718; May 18; v. 274; p. 521.
Slicing-machine. J. Folk. No. 1,340,219; May 18; v. 274; p. 427.
Snap-fasteners, Machine for making. O. Soderstrom and W. Fuhrmann. No. 1,340,634; May 18; v. 274; p. 506.
Snowplow. O. Berry. No. 1,340,263; May 18; v. 274; p. 435.
Soap-bubble device. M. G. Dobbins. No. 1,340,758; May 18; v. 274; p. 529.
Soldering, Electric. H. K. Parsons and H. H. Styll. No. 1,340,736; May 18; v. 274; p. 525.
Sound-reproducing instruments, Record-repeating device for. R. P. Christensen. No. 1,340,524; May 18; v. 274; p. 485.
Sound-reproducing machines, Record-repeating device for. R. P. Christensen. No. 1,340,525; May 18; v. 274; p. 485.
Spark-plug. W. H. Cotton. No. 1,340,526; May 18; v. 274; p. 485.
Spark-plug. L. F. Landa. No. 1,340,232; May 18; v. 274; p. 430.
Spark-plug. E. Rogers. No. 1,340,674; May 18; v. 274; p. 514.
Splint, Arm-abduction. R. D. Maddox. No. 1,340,630; May 18; v. 274; p. 505.
Spout, Pouring-. C. H. Nowack. No. 1,340,242; May 18; v. 274; p. 432.
Spring-pressure-regulating device. W. A. Van Brunt. No. 1,340,581; May 18; v. 274; p. 496.
Stair-tread. C. E. Oliver. No. 1,340,243; May 18; v. 274; p. 432.
Steering-wheel and lock, Adjustable. F. W. Vodoz. No. 1,340,638; May 18; v. 274; p. 507.
Storage battery. P. D. Ivey and A. J. Salisbury. No. 1,340,269; May 18; v. 274; p. 436.
Storage battery. N. D. Sturges. No. 1,340,636; May 18; v. 274; p. 507.
Storage battery. N. D. Sturges. No. 1,340,637; May 18; v. 274; p. 507.
Stove, Gas-. H. W. O'Dowd. No. 1,340,666; May 18; v. 274; p. 512.
Strainer. R. S. Clarke. No. 1,340,599; May 18; v. 274; p. 499.
Sulfite liquor, Regulating the acidity of. J. B. Crandon. No. 1,340,649; May 18; v. 274; p. 509.
Surgical appliance. L. O. Roberts. No. 1,340,501; May 18; v. 274; p. 481.
Surgical bandage heater and wringer. W. Jennings. No. 1,340,772; May 18; v. 274; p. 532.
Swagger-stick. E. L. Yungk. No. 1,340,746; May 18; v. 274; p. 527.
Switch: *See*—
Electric switch. Fire-alarm switch.
Tables, Manipulator for shear-. F. C. Biggert, Jr. No. 1,340,595; May 18; v. 274; p. 499.
Talcum-powder box. F. Eberhart. No. 1,340,217; May 18; v. 274; p. 427.
Talking-machine. F. J. Empson. No. 1,340,531; May 18; v. 274; p. 486.
Telemotor. R. MacGregor. No. 1,340,727; May 18; v. 274; p. 523.
Telephone-concealing hood, Ornamental. H. W. Knight. No. 1,340,863; May 18; v. 274; p. 548.
Telephone-receiver. A. Umholtz. No. 1,340,807; May 18; v. 274; p. 538.
Thread-guiding device. A. L. Hansen. No. 1,340,541; May 18; v. 274; p. 488.
Ticket holder, Railway-passenger-. W. Levy. No. 1,340,724; May 18; v. 274; p. 523.
Ticket-issuing register, Multiple-. F. L. Fuller. No. 1,340,221; May 18; v. 274; p. 428.
Tie-holder. A. W. Deshane. No. 1,340,755; May 18; v. 274; p. 528.
Time-recorder, Watchman's. W. J. Tidd. No. 1,340,578; May 18; v. 274; p. 495.
Tire. J. H. Hill. No. 1,340,339; May 18; v. 274; p. 450.
Tire. M. C. Overman. No. 1,340,556; May 18; v. 274; p. 491.
Tire-armor, Antislipping. C. E. Ross. No. 1,340,629; May 18; v. 274; p. 505.
Tire-carrier. P. Barnum. No. 1,340,431; May 18; v. 274; p. 468.
Tire-grip tightener. J. R. Reyburn. No. 1,340,184; May 18; v. 274; p. 421.
Tire-protector. W. A. Helm. No. 1,340,608; May 18; v. 274; p. 501.
Tire-protector. D. D. O'Brien. No. 1,340,179; May 18; v. 274; p. 420.
Tire, Spring-. E. S. Johnson. No. 1,340,272; May 18; v. 274; p. 437.
Tires during vulcanizing, Means for treating vehicle-. F. G. Flegal. No. 1,340,440; May 18; v. 274; p. 469.
Toe-softener. F. M. Furber. No. 1,340,825; May 18; v. 274; p. 541.
Tool, Weeding-. L. J. and D. C. Panetti. No. 1,340,624; May 18; v. 274; p. 504.
Tooth cutter, Detachable-. C. C. Cashman. No. 1,340,474; May 18; v. 274; p. 475.
Tooth point, Renewable cutting-. W. L. Edmondson. No. 1,340,385; May 18; v. 274; p. 459.
Toothbrush, Rotary. G. B. Ehrig. No. 1,340,760; May 18; v. 274; p. 529.
Torch, Oxyhydrogen cutting-. C. J. Coberly. No. 1,340,699; May 18; v. 274; p. 518.
Torch, Safety electric welding-. E. Jahoda. No. 1,340,270; May 18; v. 274; p. 436.
Toy. G. A. King. No. 1,340,394; May 18; v. 274; p. 460.
Toy. A. W. Manzle. No. 1,340,786; May 18; v. 274; p. 534.
Toy. M. Wild. No. 1,340,512; May 18; v. 274; p. 483.
Toy boat. H. T. and E. J. Kingbury. No. 1,340,614; May 18; v. 274; p. 502.
Toy, Educational. G. Taussig and C. Wagenfohr. No. 1,340,304; May 18; v. 274; p. 443.
Toy or game. A. L. Lilley. No. 1,340,278; May 18; v. 274; p. 438.
Toy pistol. M. A. Turtle. No. 1,340,190; May 18; v. 274; p. 422.
Track-fastening and making same. E. C. Danner. No. 1,340,478; May 18; v. 274; p. 476.
Tracking device. O. H. Arno. No. 1,340,360; May 18; v. 274; p. 454.
Tractor. J. Jessen. No. 1,340,169; May 18; v. 274; p. 418.
Tractor. H. W. Truscott. No. 1,340,306; May 18; v. 274; p. 443.
Tractor, Dirigible. W. P. Allen. No. 1,340,514; May 18; v. 274; p. 483.

Tractor-draw-bar attachment. J. P. Seitz. No. 1,340,504; May 18; v. 274; p. 481.
Tractor implement, Combination. A. G. and A. Ronning. No. 1,340,461; May 18; v. 274; p. 473.
Trailers, Combination end-gate and step for. A. P. Fix. No. 1,340,761; May 18; v. 274; p. 529.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,416; May 18; v. 274; p. 465.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,417; May 18; v. 274; p. 465.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,418; May 18; v. 274; p. 465.
Trailers, Removable bogie for. E. Schneider. No. 1,340,414; May 18; v. 274; p. 464.
Trap: *See*—
Animal-trap. Flytrap.
Trap. N. P. Capehart. No. 1,340,372; May 18; v. 274; p. 456.
Trap. M. M. Shields. No. 1,340,801; May 18; v. 274; p. 537.
Trousers, Appliance for men's. J. B. Koebne. No. 1,340,276; May 18; v. 274; p. 437.
Truck. L. O. Culver and J. B. Wills. No. 1,340,378; May 18; v. 274; p. 457.
Truck, Transportation-. E. C. Pruismann. No. 1,340,672; May 18; v. 274; p. 513.
Tub: *See*—
Laundry-tub.
Tube and making same, Inner. H. Dech. No. 1,340,702; May 18; v. 274; p. 519.
Tube and making same, Inner. H. Dech. No. 1,340,704; May 18; v. 274; p. 519.
Tube and method of and apparatus for making same, Inner. H. Dech. No. 1,340,703; May 18; v. 274; p. 519.
Tube-making machine. S. Derringer. No. 1,340,706; May 18; v. 274; p. 519.
Turbine gas-engine. G. F. and K. O. Schmid. No. 1,340,563; May 18; v. 274; p. 492.
Turpentine substitute. M. Darrin. No. 1,340,600; May 18; v. 274; p. 500.
Twine-ball. G. L. Rice. No. 1,340,254; May 18; v. 274; p. 434.
Twine-ball. G. L. Rice. No. 1,340,837; May 18; v. 274; p. 544.
Type-casting machines, Adjustable liner for. G. A. Jones. No. 1,340,831; May 18; v. 274; p. 543.
Typewriting-machine. C. M. Hillsee. No. 1,340,542; May 18; v. 274; p. 488.
Typewriting-machine. A. G. F. Kurowski. No. 1,340,488; May 18; v. 274; p. 478.
Typewriting-machine. J. Waldheim. No. 1,340,469; May 18; v. 274; p. 474.
Typewriting-machine. J. Waldheim. No. 1,340,864; May 18; v. 274; p. 548.
Typographical machines, Casting material for. T. W. Johns. No. 1,340,613; May 18; v. 274; p. 502.
Umbrella and cane, Combination. A. Cleveland. No. 1,340,375; May 18; v. 274; p. 457.
Umbrella-tip pad. R. J. d'Aquin. No. 1,340,476; May 18; v. 274; p. 476.
Universal joint. J. G. Blunt. No. 1,340,368; May 18; v. 274; p. 455.
Upholstery-fastening means. W. N. Collar. No. 1,340,475; May 18; v. 274; p. 475.
Valve. C. H. King. No. 1,340,719; May 18; v. 274; p. 522.
Valve, Roller blow-off. C. C. O'Neil. No. 1,340,790; May 18; v. 274; p. 535.
Valve-chest. L. H. Duncan. No. 1,340,652; May 18; v. 274; p. 509.
Valve construction. D. H. Francis. No. 1,340,481; May 18; v. 274; p. 477.
Valve, Electroionic. E. R. Stoekle. No. 1,340,575; May 18; v. 274; p. 495.
Valve Gates. H. L. Wittstein. No. 1,340,591; May 18; v. 274; p. 498.
Valve-gear, Steam-engine. C. F. Prescott. No. 1,340,405; May 18; v. 274; p. 462.
Valve-grinder. W. L. Dinsmoor. No. 1,340,756; May 18; v. 274; p. 528.
Valve lifter, Overhead-. D. Vaughan. No. 1,340,192; May 18; v. 274; p. 422.
Valve Radiator-. C. Fenser. No. 1,340,439; May 18; v. 274; p. 469.
Valve, Safety-. J. G. Lanning. No. 1,340,832; May 18; v. 274; p. 543.
Valve-seat reamer. F. O. Albertson. No. 1,340,359; May 18; v. 274; p. 453.
Valve-stems, Means for attaching handles to. W. M. Fulton. No. 1,340,604; May 18; v. 274; p. 500.
Valve-tappets, Shim-holder for. G. A. Breeze. No. 1,340,211; May 18; v. 274; p. 426.
Vehicle. L. Nussbaum. No. 1,340,733; May 18; v. 274; p. 524.
Vehicle-bed-supporting means. P. C. Baird. No. 1,340,204; May 18; v. 274; p. 424.
Vehicle-coupling. A. B. Cadman. No. 1,340,521; May 18; v. 274; p. 484.
Vehicle-fender. E. W. Pohlig. No. 1,340,835; May 18; v. 274; p. 543.
Vehicle for soft ground, Motor-. J. E. Ollivier. No. 1,340,789; May 18; v. 274; p. 535.
Vehicle-jack. D. Bruhn. No. 1,340,150; May 18; v. 274; p. 415.
Vehicle suspension and shock-absorber. F. O. Boswell. No. 1,340,434; May 18; v. 274; p. 468.
Vehicle-top. A. A. Augustus. No. 1,340,518; May 18; v. 274; p. 484.
Vehicle-wheel. W. N. Allan. No. 1,340,592; May 18; v. 274; p. 498.
Vehicle-wheel. W. N. Allan. No. 1,340,593; May 18; v. 274; p. 498.
Vehicles or tractors, Registering mechanism for. A. M. Buck. No. 1,340,324; May 18; v. 274; p. 447.
Vehicles, Pull-out device for motor-. F. A. Snideman. No. 1,340,349; May 18; v. 274; p. 452.
Vehicles, Signal system for moving. L. Ringer. No. 1,340,560; May 18; v. 274; p. 486.
Vehicles, Spare wheel for. A. D. Hogg. No. 1,340,485; May 18; v. 274; p. 478.
Velocipede-horse. D. H. Markmann and M. A. Demmler. No. 1,340,282; May 18; v. 274; p. 439.
Vending-machine, Coin-controlled. W. G. Wilson. No. 1,340,174; May 18; v. 274; p. 419.
Ventilator. J. J. A. Roe. No. 1,340,673; May 18; v. 274; p. 513.
Vessel, Air-navigating. H. C. Woerz. No. 1,340,309; May 18; v. 274; p. 444.
Vibrator. E. N. Goodlett. No. 1,340,860; May 18; v. 274; p. 548.
Vise. L. H. Dallard. No. 1,340,477; May 18; v. 274; p. 476.
Vise, Pipe-holding. E. J. Brisben. No. 1,340,147; May 18; v. 274; p. 414.
Vulcanizer. H. K. Wheelock. No. 1,340,641; May 18; v. 274; p. 507.
Vulcanizer. H. K. Wheelock. No. 1,340,642; May 18; v. 279; p. 508.
Wagon-brake. E. W. Tucker. No. 1,340,743; May 18; v. 274; p. 526.
Wagons, Connection with apparatus for tipping. W. Reid. No. 1,340,683; May 18; v. 274; p. 515.
Wall structure, Retaining-. W. E. Pease and N. H. Suloff. No. 1,340,670; May 18; v. 274; p. 513.
Washing-machine. A. Hofmann. No. 1,340,543; May 18; v. 274; p. 488.
Washing machine, Can-. A. B. Herr. No. 1,340,768; May 18; v. 274; p. 531.
Washing machine, Dish-. W. C. Ashley. No. 1,340,517; May 18; v. 274; p. 483.
Washing-machines, Driving mechanism for. A. B. Cooling. No. 1,340,328; May 18; v. 274; p. 447.
Washing-machines, Driving mechanism for. H. C. Doman. No. 1,340,329; May 18; v. 274; p. 448.
Watch-stand. W. E. Beck. No. 1,340,859; May 18; v. 274; p. 548.
Water-closet. C. E. Shadall. No. 1,340,567; May 18; v. 274; p. 493.
Welding, Electrically. A. Schmidt. No. 1,340,412; May 18; v. 274; p. 464.
Welding, Joining metals by electric. C. H. Kicklighter. No. 1,340,170; May 18; v. 274; p. 419.
Welded joint, Reinforced. D. H. Wilson and R. G. Hutton. No. 1,340,644; May 18; v. 274; p. 508.
Well-cleaning apparatus. G. W. Russell. No. 1,340,295; May 18; v. 274; p. 441.
Wheel: *See*—
Sheet-metal wheel. Wire wheel.
Vehicle-wheel.
Wheel-drive mechanism, Front-. G. S. Duncan. No. 1,340,759; May 18; v. 274; p. 529.
Wheel equipment, Demountable-. J. S. Williams. No. 1,340,199; May 18; v. 274; p. 424.
Wheel-lift. W. L. Walton. No. 1,340,587; May 18; v. 274; p. 497.
Wheel of the sheet-metal type, Road-. H. Austin. No. 1,340,697; May 18; v. 274; p. 518.
Winding-reel. A. J. Hare. No. 1,340,712; May 18; v. 274; p. 520.
Window-screen. F. J. Schoch. No. 1340,797; May 18; v. 274; p. 536.
Window-wiping device. G. H. Russell. No. 1,340,794; May 18; v. 274; p. 536.
Wire-coiling machine. F. L. Andren. No. 1,340,516; May 18; v. 274; p. 483.
Wire-coiling machine. A. G. Sailer. No. 1,340,296; May 18; v. 274; p. 441.
Wire wheel, detachable. J. F. Jinkner. No. 1,340,773; May 18; v. 274; p. 532.
Work-support. A. Bates. No. 1,340,143; May 18; v. 274; p. 413.
Wrapping-machine. W. B. Munn. No. 1,340,665; May 18; v. 274; p. 512.
Wrench: *See*—
Pipe-wrench.
Wrench. A. Nikander. No. 1,340,287; May 18; v. 274; p. 439.
Wrenches, Making. H. T. Roberts. No. 1,340,560; May 18; v. 274; p. 492.

ALPHABETICAL LIST OF DESIGNS.

Auto-curtain window. R. Haley. No. 55,169; May 18; v. 274; p. 555.
Belt-clasp. W. E. Rounsevill. No. 55,197; May 18; v. 274; p. 560.
Brassière-hook. D. C. Warner and F. L. Langhammer. No. 55,219; May 18; v. 274; p. 563.
Buckle frame, Belt-. E. M. Davis. Nos. 55,150–5; May 18; v. 274; p. 552.
Buckle frame, Belt-. L. W. Shields. Nos. 55,198–213; May 18; v. 274; pp. 560–2.
Cabinet, Phonograph-. J. H. Weber. No. 55,220; May 18; v. 274; p. 564.
Cabinet, Talking-machine. H. B. Wolper. Nos. 55,226–7; May 18; v. 274; p. 565.
Calendar-holder, Loose-leaf-pad. F. A. Weeks. No. 55,221; May 18; v. 274; p. 564.
Candelabrum. S. H. Leavenworth. Nos. 55,183–5; May 18; v. 274; p. 557.
Cooking-receptacle. C. A. Massing. No. 55,188; May 18; v. 274; p. 558.
Collar-clip. K. Staufenbeil. No. 55,214; May 18; v. 274; p. 563.
Cooker-pot. W. Luttringhaus. No. 55,187; May 18; v. 274; p. 558.
Curtain and shade hanger. M. Dubish. No. 55,157; May 18; v. 274; p. 553.
Dashboards, Seepage-intercepting attachment for. H. and L. Hoffman. No. 55,172; May 18; v. 274; p. 555.
Dish or receptacle. J. L. Wentz. No. 55,222; May 18; v. 274; p. 564.
Headlight-bracket. J. L. P. Landry. No. 55,182; May 18; v. 274; p. 557.
Heater, Gas-. J. H. Grayson. No. 55,168; May 18; v. 274; p. 555.
Heel, Shoe-. W. E. Durham. No. 55,158; May 18; v. 274; p. 553.
Ice-cream scoop. V. Talbot. No. 55,215; May 18; v. 274; p. 563.
Lamp-globe canopy. J. W. Gosling. Nos. 55,165–7; May 18; v. 274; p. 554.
Lamp-shade. R. V. Owen. No. 55,195; May 18; v. 274; p. 559.
Lens. A. G. Miller and C. McMullen. No. 55,191; May 18; v. 274; p. 559.
Light, Casing for a stage flood-. R. McCargar. No. 55,189; May 18; v. 274; p. 558.
Motor-scooter. G. Campling. No. 55,148; May 18; v. 274; p. 551.
Phonograph. W. Thorpe. No. 55,217; May 18; v. 274; p. 563.
Phonograph-case and cabinet, Combined. E. Forrest. No. 55,159; May 18; v. 274; p. 553.
Phonograph-casing. G. R. Kunkle. No. 55,181; May 18; v. 274; p. 557.
Phonograph-casing. S. L. M. Pearson. 55,196; May 18; v. 274; p. 560.
Phonograph-motor top-plate. M. Nystrom. No. 55,194; May 18; v. 274; p. 559.
Plate, Serving-. C. Torgeson. No. 55,218; May 18; v. 274; p. 563.
Purse. C. A. Nichthauser. Nos. 55,192–3; May 18; v. 274; p. 559.
Radiator. F. E. Bradfield. No. 55,145; May 18; v. 274; p. 551.
Signal, Motor-vehicle. F. A. Wescott. Nos. 55,223–4; May 18; v. 274; p. 564.
Spoon, fork, or similar article. A. G. Kintz. No. 55,180; May 18; v. 274; p. 557.
Spring support and hanger. T. Delikat. No. 55,156; May 18; v. 274; p. 553.
Sprinkler-head or similar article, Frame for. J. R. Hamilton. No. 55,170; May 18; v. 274; p. 555.
Stove, Gas-. A. H. Humphrey. Nos. 55,173–8; May 18; v. 274; p. 556.
Table, Physician's. T. Lidberg. No. 55,186; May 18; v. 274; p. 558.
Tableware, Article of hollow. V. Gaertner. Nos. 55,160–4; May 18; v. 274; pp. 553–4.
Tire. J. Tenney, Jr. No. 55,216; May 18; v. 274; p. 563.
Tire casing, Tread of a pneumatic-. J. L. Hanley. No. 55,171; May 18; v. 274; p. 555.
Tire-tread. M. L. A. A. Allard. No. 55,144; May 18; v. 274; p. 550.
Tire-tread. A. L. Breitenstein. Nos. 55,146–7; May 18; v. 274; p. 551.
Tire-tread or similar article. G. C. McConnell. No. 55,190; May 18; v. 274; p. 559.
Tractor. R. L. Williamson. No. 55,225; May 18; v. 274; p. 564.
Water-heater casing. R. J. Hutchins. No. 55,179; May 18; v. 274; p. 557.
Wind instrument, Pell for a brass-. F. Cheney. No. 55,149; May 18; v. 274; p. 551.

ALPHABETICAL LIST OF TRADE-MARKS.

Aeroplane dope. Pratt & Lambert. No. 131,580; May 18; v. 274; p. 607.
Antiseptic, Liquid. A. S. Mann. No. 131,547; May 18; v. 274; p. 606.
Aspirin and photo-engraving chemicals. Albany Chemical Company. No. 131,392; May 18; v. 274; p. 601.
Aspirin, Liquid. J. H. Collier. No. 131,432; May 18; v. 274; p. 602.
Bags, beaded santoires, necklaces, Bead and metal. Jules Schwab & Co. No. 131,608; May 18; v. 274; p. 608.
Beating and mixing machines, Electrically-driven. The Hobart Manufacturing Company. No. 131,490; May 18; v. 274; p. 604.
Beer, sarsaparilla, &c., Birch and root. Rainier Products Company. No. 131,587; May 18; v. 274; p. 607.
Beverage and syrup for making same, Non-alcoholic non-cereal maltless. J. Groetsch. No. 131,472; May 18; v. 274; p. 603.
Beverage and syrup for making same, Non-alcoholic. S. Klausner. No. 131,519; May 18; v. 274; p. 605.
Beverage and syrup for making same, Non-alcoholic. R. B. Wingate. No. 131,675; May 18; v. 274; p. 610.
Beverage and syrup for making same, Non-alcoholic non-cereal maltless. The Thrill Exploiting Co. No. 131,639; May 18; v. 274; p. 609.
Beverage, Bottled non-alcoholic. C. H. Thom. No. 131,636; May 18; v. 274; p. 609.
Beverage, Cereal malt. Jetter Beverage Company. No. 131,508; May 18; v. 274; p. 604.
Beverage made of malt and cereals. Adam Scheidt Beverage Company. No. 131,606; May 18; v. 274; p. 608.
Beverage, Non-alcoholic. Boedeker & Co. No. 131,414; May 18; v. 274; p. 601.
Beverage, Non-alcoholic. F. J. Catterlin. No. 131,425; May 18; v. 274; p. 602.
Beverage, Non-alcoholic. Celro-Kola Co. No. 131,426; May 18; v. 274; p. 602.
Beverage, Non-alcoholic. Home Distributing Co. No. 131,493; May 18; v. 274; p. 604.
Beverage, Non-alcoholic. Pure Beverage Company. No. 131,582; May 18; v. 274; p. 607.
Beverage, Non-intoxicating. Boyce Extract Co. No. 131,419; May 18; v. 274; p. 601.
Beverage, Non-intoxicating. Chill-O Company. No. 131,430; May 18; v. 274; p. 602.
Beverage-punch, sold as a soft drink, Non-alcoholic. Arrow Products Co. No. 131,405; May 18; v. 274; p. 601.
Beverages and syrups, Non-alcoholic. The Hygeria Beverage Co. No. 131,497; May 18; v. 274; p. 604.
Beverages and syrups, Non-alcoholic. E. W. Laporte. No. 131,525; May 18; v. 274; p. 605.
Beverages and syrups for making same, Non-alcoholic. Thornton Mineral Springs Company. No. 131,638; May 18; v. 274; p. 609.
Beverages and syrups for making same, Non-alcoholic. World Bottling Co. No. 131,679; May 18; v. 274; p. 610.
Beverages, Non-alcoholic. Jackson Brewing Company. No. 131,504; May 18; v. 274; p. 604.
Beverages, Non-alcoholic. Sh-h Company. No. 131,591; May 18; v. 274; p. 607.
Beverages, Non-intoxicating. Whistle Bottling Co. No. 131,668; May 18; v. 274; p. 610.
Bleaching fluid. F. Cormond. No. 131,437; May 18; v. 274; p. 602.
Blight exterminator. T. Benton. No. 131,411; May 18; v. 274; p. 601.
Bloater, anchovy, sardine, and salmon pastes, &c. L. Klima. No. 131,521; May 18; v. 274; p. 605.
Bluing, Laundry. C. A. Murdock Mfg. Co. No. 131,556; May 18; v. 274; p. 606.
Book-marks. J. J. Vanderveer. No. 131,656; May 18; v. 274; p. 609.
Bread. Ivan B. Nordhem Company. No. 131,566; May 18; v. 274; p. 606.
Bread-making machinery and accessories. Bake-Rite Oven Mfg. Company. No. 131,407; May 18; v. 274; p. 601.

Broadcloth. Turner & Walls. No. 131,644; May 18; v. 274; p. 609.
Bronze ingots, castings, rods, &c. Bridgeport Brass Company. No. 131,421; May 18; v. 274; p. 602.
Brushes and brooms. Device for cleaning bristle. H. Frankenstein. No. 131,464; May 18; v. 274; p. 603.
Butter. V. Lopez & Company. No. 131,535; May 18; v. 274; p. 605.
Butter. Vasold Brothers. No. 131,657; May 18; v. 274; p. 609.
Candies. Shutter Johnson Candy Co. No. 131,510; May 18; v. 274; p. 604.
Candies and confections, Marshmallow. Henry Heide, Incorporated. No. 131,488; May 18; v. 274; p. 604.
Candies, Hard. Weber-Schlitz Candy Co. No. 131,667; May 18; v. 274; p. 610.
Candy. Williams Chocolate Co. No. 131,672; May 18; v. 274; p. 610.
Canned fruits. Harbor City Canning Company. No. 131,483; May 18; v. 274; p. 604.
Canned tomatoes, &c. Italian Food Products Co. No. 131,503; May 18; v. 274; p. 604.
Castings. Vermilion Malleable Iron Company. No. 131,659; May 18; v. 274; p. 609.
Castings, Malleable. The T. H. Symington Company. No. 131,633; May 18; v. 274; p. 609.
Chocolates. D. A. Rand. No. 131,586; May 18; v. 274; p. 607.
Churns and parts thereof, Butter-. International Manufacturing Company of Texas. No. 131,501; May 18; v. 274; p. 604.
Cleaning preparation for cleaning fabrics. S. M. Spencer. No. 131,617; May 18; v. 274; p. 608.
Cocoanut-oil. India Refining Company. No. 131,499; May 18; v. 274; p. 604.
Coffee, tea, spices, &c. Farmer Bros. No. 131,457; May 18; v. 274; p. 603.
Colors. G. Siegle Company. No. 131,621; May 18; v. 274; p. 608.
Colors, dry and liquid dye-colors, &c., Aniline. Lanman & Kemp. No. 131,526; May 18; v. 274; p. 605.
Compound and ointment of iodin and oil. The William S. Merrill Company. No. 131,552; May 18; v. 274; p. 606.
Condensers. Wireless Specialty Apparatus Company. No. 131,676; May 18; v. 274; p. 610.
Conduits and fittings. International Conduit Corporation. No. 131,500; May 18; v. 274; p. 604.
Confection with a laxative ingredient. R. C. Traster. No. 131,641; May 18; v. 274; p. 609.
Cosmetics. Philo-Derma Company. No. 131,577; May 18; v. 274; p. 607.
Cotton goods in the piece. Prince Lauten Co. No. 131,581; May 18; v. 274; p. 607.
Cotton piece goods. Cohn Hall Marx Co. No. 131,479; May 18; v. 274; p. 603.
Cotton piece goods. Haas Brothers Fabrics Corporation. No. 131,476; May 18; v. 274; p. 603.
Cotton piece goods. Watts, Stebbins & Co. No. 131,666; May 18; v. 274; p. 610.
Cotton, silk, and silk and cotton mixture piece goods. Morcott Co. No. 131,554; May 18; v. 274; p. 606.
Cotton, silk, &c., piece goods and velvets and velveteens. W. H. Childs & Son. Nos. 131,428–9; May 18; v. 274; p. 602.
Cotton, wool, &c., piece goods. Manufacturers Textile Co. No. 131,548; May 18; v. 274; p. 606.
Cream, Cold-. F. S. Parker. No. 131,571; May 18; v. 274; p. 607
Cream, Cold-. Velvoto Company. No. 131,658; May 18; v. 274; p. 609.
Cream, face, talcum, and tooth powders, Toilet. F. H. Young. Nos. 131,681–2; May 18; v. 274; p. 610.
Cream, Liquid face-. The Skowbo Co. No. 131,615; May 18; v. 274; p. 608.
Cutlery, razors, shears, and butcher-knives, Pocket-. Union Cutlery Co. No. 131,648; May 18; v. 274; p. 609.
Deodorants. V. Vivandou. No. 131,662; May 18; v. 274; p. 610.
Dish-washing and sewing machines. Blue Bird Manufacturing Company. No. 131,413; May 18; v. 274; p. 601.
Disinfectant and germicide preparations. The Eli Lilly & Company. No. 131,452; May 18; v. 274; p. 603.
Doughnut-machines. Baum & School. No. 131,409; May 18; v. 274; p. 601.
Drills. Detroit Twist Drill Co. No. 131,443; May 18; v. 274; p. 602.
Dyes. American Aniline Products. No. 131,395; May 18; v. 274; p. 601.
Dyes, &c., Anilin. United States Color and Chemical Company. No. 131,651; May 18; v. 274; p. 609.
Dyes in soap form. J. S. Singer. No. 131,614; May 18; v. 274; p. 608.
Dyestuffs. Essex Aniline Works. No. 131,455; May 18; v. 274; p. 603.
Dyestuffs and chemicals. H. A. Metz. No. 131,553; May 18; v. 274; p. 606.
Elastics in the piece, Woven. Rice-Stix Dry Goods Company. No. 131,592; May 18; v. 274; p. 607.
Electric conduits, lighting and power fixtures. A. T. Sampson. No. 131,604; May 18; v. 274; p. 608.
Electric-lighting plants. Black Swan Company. No. 131,412; May 18; v. 274; p. 601.
Electric switches, Thermostatically-operated. American Fire Prevention Bureau. No. 131,397; May 18; v. 274; p. 601.
Electrical apparatus. The Adams & Westlake Company. No. 131,393; May 18; v. 274; p. 601.
Engines and compressed-air motors. Handley Page Limited. No. 131,569; May 18; v. 274; p. 606.
Engines, Fluid for priming and starting internal-combustion. Albany Chemical Company. No. 131,394; May 18; v. 274; p. 601.
Engines, Internal-combustion. Fairbanks, Morse & Co. No. 131,456; May 18; v. 274; p. 603.
Engines, Internal-combustion. The Holt Manufacturing Company. No. 131,491; May 18; v. 274; p. 604.
Engines, locomotives, and their parts, motors, &c. Locomotive Pulverized Fuel Company. No. 131,534; May 18; v. 274; p. 605.
Eyeglass-cleaner. C. Jacknowitz. No. 131,505; May 18; v. 274; p. 604.
Feed, Hog. Swift and Company. No. 131,632; May 18; v. 274; p. 609.
Fish, vegetable-oils, and dressings for meats, &c. Musher & Company. No. 131,557; May 18; v. 274; p. 606.
Flasks, &c., Metal foundry-. Union Metal Manufacturing Company. No. 131,649; May 18; v. 274; p. 609.
Flour, parched bran and wheat, &c., Pancake-. Pettijohn Pure Products Co. No. 131,576; May 18; v. 274; p. 607.
Flour, Wheat-. The Colorado Milling & Elevator Co. No. 131,433; May 18; v. 274; p. 662.
Flour, Wheat-. J. F. Lennon. No. 131,531; May 18; v. 274; p. 605.
Flour, Wheat-. The Mennel Milling Company. No. 131,551; May 18; v. 274; p. 606.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 131,634; May 18; v. 274; p. 609.
Flour, Wheat-. Washburn Crosby Co. No. 131,665; May 18; v. 274; p. 610.
Fluid, Embalming. The Embalmers' Supply Company. No. 131,453; May 18; v. 274; p. 603.
Food-colors. National Aniline & Chemical Company, Inc. Nos. 131,558–61; May 18; v. 274; p. 606.
Forgings, Steel. Sizer Forge Company. No. 131,622; May 18; v. 274; p. 608.
Formaldehyde, Sulfoxalate of sodium. Rohm & Haas Company. No. 131,600; May 18; v. 274; p. 608.
Fruits and avocados, Citrus. J. H. Derby. No. 131,442; May 18; v. 274; p. 602.
Ginger-ale. Equinox Mountain Spring, Inc. No. 131,454; May 18; v. 274; p. 603.
Ginger-ale. Rye-Ola Company. No. 131,602; May 18; v. 274; p. 608.
Ginger-ale. A. M. Schlesinger. No. 131,618; May 18; v. 274; p. 608.
Ginger-ale, sarsaparilla, root-beer. American Stores Company. No. 131,401; May 18; v. 274; p. 601.
Gold, metal, and composition leaf. Philip A. Hunt Company. No. 131,495; May 18; v. 274; p. 604.
Grape-juice. California Wine Association. No. 131,422; May 18; v. 274; p. 602.
Grape-juice. Hammondsport Products Co. No. 131,481; May 18; v. 274; p. 603.
Gum, Chewing-. The Bee Hee Confection Company. No. 131,410; May 18; v. 274; p. 601.
Hair-grower, pressing and temple oil, and hair-dye. G. R. Hawkins. No. 131,486; May 18; v. 274; p. 604.
Hair-nets. Samuel Boncet & Bro. No. 131,415; May 18; v. 274; p. 601.
Hair-nets. Paristyle Novelty Co. No. 131,570; May 18; v. 274; p. 606.
Hair-salve. Viduseck, A. No. 131,661; May 18; v. 274; p. 609.
Hair-tonic. P. Daski. No. 131,440; May 18; v. 274; p. 602.
Hair-tonic. J. B. Nayberger. No. 131,563; May 18; v. 274; p. 606.
Handkerchiefs. Hyman Bauman & Co. No. 131,408; May 18; v. 274; p. 601.
Honey, peanut-butter, and ice-cream cones. Standard Products Supply Co. No. 131,628; May 18; v. 274; p. 608.
Hydrosulfite, Anhydrous sodium. Rohn & Haas Company. No. 131,598; May 18; v. 274; p. 607.
Ink for making writing fluid, Condensed. Jasmine Ink Corporation. No. 131,506; May 18; v. 274; p. 604.
Insect-powder. H. Kaye. No. 131,511; May 18; v. 274; p. 605.
Insecticide and fungicide. Standard Chemical Works. Nos. 131,626–7; May 18; v. 274; p. 608.
Insecticides. McDougall Brothers. No. 131,543; May 18; v. 274; p. 606.
Insecticides. J. G. Grossenbacher. No. 131,473; May 18; v. 274; p. 603.
Insecticides. Nitrate Agencies Company. No. 131,565; May 18; v. 274; p. 606.
Iron and steels. John Kenyon & Co. (Sheffield). Nos. 131,516–18; May 18; v. 274; p. 605.
Jar-capping machines. The American Pure Food Process Co. No. 131,400; May 18; v. 274; p. 601.
Knives. Dwight Divine & Sons. No. 131,448; May 18; v. 274; p. 602.
Knives, Steel. Lamson and Goodnow Manufacturing Company. No. 131,528; May 18; v. 274; p. 605.
Lamp products, Electric-. Electric Lamp & Products Co. No. 131,451; May 18; v. 274; p. 603.

Laxative, Liquid vegetable. P. B. Zevely. No. 131,684; May 18; v. 274; p. 610.
Laxative preparation. Sentanel Remedies Company. No. 131,610; May 18; v. 274; p. 608.
Leather-dressing. Whittemore Brothers' Corporation. Nos. 131,669–71; May 18; v. 274; p. 610.
Lemon-squash and lime-juice. London 'O-T' Limited. No. 131,536; May 18; v. 274; p. 605.
Lenses, Condensing-. Corning Glass Works. No. 131,436; May 18; v. 274; p. 602.
Lenses, eyeglasses, and frames, Ophthalmic. United Eye Glass Shops Corporation. No. 131,650; May 18; v. 274; p. 609.
Liniment. F. Ad. Richter & Co. of New York. Nos. 131,593–4; May 18; v. 274; p. 607.
Liniments. A. W. Fingl. No. 131,461; May 18; v. 274; p. 603.
Lotion, Toilet. The Lorenz Company. No. 131,539; May 18; v. 274; p. 606.
Lotions, Skin-. C. H. Bong. No. 131,416; May 18; v. 274; p. 601.
Lubricators and oiling devices, Mechanical. Richardson-Phenix Co. No. 131,589; May 18; v. 274; p. 607.
Luminous material. Radium Luminous Material Corporation. No. 131,585; May 18; v. 274; p. 607.
Machinery and tools. American Tool & Machine Co. No. 131,402; May 18; v. 274; p. 601.
Mensuring and scientific appliances. Precision Instrument Company. No. 131,579; May 18; v. 274; p. 607.
Medical compound for syphilis. W. L. Capell. No. 131,423; May 18; v. 274; p. 602.
Medical compound for typhoid fever, &c. E. J. Vernon. No. 131,660; May 18; v. 274; p. 609.
Medicinal preparations. F. Ad. Richter & Co. No. 131,595; May 18; v. 274; p. 607.
Medicinal preparations. J. Robert. No. 131,596; May 18; v. 274; p. 607.
Medicinal preparation for influenza. N. S. Sue. No. 131,631; May 18; v. 274; p. 609.
Medicine for certain named diseases. Leo M. Wolf. No. 131,677; May 18; v. 274; p. 610.
Medicine, Lung. F. E. Hunter. No. 131,496; May 18; v. 274; p. 604.
Medicine used in the treatment of certain named diseases. Wa-Ba-Va-Nes-Ta Medicine & Drug Co. No. 131,664; May 18; v. 274; p. 610.
Metal wear. The New England Enameling Company. No. 131,564; May 18; v. 274; p. 606.
Milk and cream testers, Electric. Imperial Electrical Co. No. 131,498; May 18; v. 274; p. 604.
Milk, Sweetened condensed and unsweetened evaporated. R. G. Morey. No. 131,555; May 18; v. 274; p. 606.
Mixing, kneading, and masticating machines. East Iron & Machine Co. No. 131,450; May 18; v. 274; p. 602.
Nail-polish, brilliantine, and cuticle-cream. H. J. Bosch. No. 131,418; May 18; v. 274; p. 601.
Nuts, Shelled and unshelled. Habicht and Company. No. 131,478; May 18; v. 274; p. 603.
Oil, Edible vegetable. The American Cotton Oil Company. No. 131,396; May 18; v. 274; p. 601.
Oil, Epsom salts and sulfur, Castor-. Malone & Hyde. No. 131,545; May 18; v. 274; p. 606.
Oil, Haarlem. H. R. Lathrop & Co. No. 131,527; May 18; v. 274; p. 605.
Oil, Medicated. Pensotone Company. No. 131,575; May 18; v. 274; p. 607.
Oil or amyl alcohol, &c., Fusel-. U. S. Industrial Alcohol Co. No. 131,652; May 18; v. 274; p. 609.
Oilers, Force-feed. H. D. Lafferty. No. 131,523; May 18; v. 274; p. 605.
Oils and fats, Vegetable and animal. Fats and Oils Service Company. No. 131,459; May 18; v. 274; p. 603.
Oils and greases, Lubricating. Star Oil Company. No. 131,630; May 18; v. 274; p. 608.
Ointment. C. J. Durling. No. 131,447; May 18; v. 274; p. 602.
Ointment for treatment of piles and similar complaints. A. Theodoropoulos. No. 131,635; May 18; v. 274; p. 609.
Ovens for baking bread, pastry, &c., Electric. Keeps-Fresh Electric Bakeries. No. 131,515; May 18; v. 274; p. 605.
Paints, varnishes, &c. G. J. Liebich Co. No. 131,533; May 18; v. 274; p. 605.
Paper, Wrapping-. York Haven Paper Company. No. 131,680; May 18; v. 274; p. 610.
Papers and mailing envelops, Writing, &c., American Paper Exports. No. 131,398; May 18; v. 274; p. 601.
Papers, Wrapping-. Union Bag & Paper Corporation. No. 131,647; May 18; v. 274; p. 609.
Perfume, toilet water, &c. Lundborg Company. No. 131,541; May 18; v. 274; p. 606.
Perfumes, tooth and toilet powders, &c. The Lorenz Company. No. 131,538; May 18; v. 274; p. 605.
Perfumery, toilet water, &c. Jennings Manufacturing Company. No. 131,507; May 18; v. 274; p. 604.
Pharmaceutical preparations. W. R. Fessler. No. 131,460; May 18; v. 274; p. 603.
Pharmaceutical preparations. A. H. Rudd. No. 131,601; May 18; v. 274; p. 608.
Phonographs and sound-boxes and tone-arms for same. Oro-Tone Co. No. 131,568; May 18; v. 274; p. 606.
Photographic and developing papers. Haloid Company. No. 131,480; May 18; v. 274; p. 603.
Pianos. American Piano Company. No. 131,399; May 18; v. 274; p. 601.
Picture films, Motion-. Community Motion Picture Bureau. No. 131,434; May 18; v. 274; p. 602.
Pipe-couplings, &c., Metal. National Tube Company. No. 131,562; May 18; v. 274; p. 606.
Pipe joints or couplings. Standard Union Company. No. 131,629; May 18; v. 274; p. 608.
Powder, Cake face-. F. N. Lewis. No. 131,532; May 18; v. 274; p. 605.
Powder to be used in making a face-cream. F. A. Gray. No. 131,471; May 18; v. 274; p. 603.
Powder, Tooth-. A. B. Peters. No. 131,575; May 18; v. 274; p. 607.
Powders, lip salve and rouge, &c., Face and talcum. Julius Schmid, Incorporated. No. 131,607; May 18; v. 274; p. 608.
Powders, Tooth and foot. The Lorenz Company. No. 131,540; May 18; v. 274; p. 606.
Preparation for cleansing and beautifying the skin. Holton & Adams. No. 131,492; May 18; v. 274; p. 604.
Preparation for destroying boll-weevils, &c. V. Thompson. No. 131,637; May 18; v. 274; p. 609.
Preparation for headaches and nervous diseases. Keasbey & Mattison Company. No. 131,512; May 18; v. 274; p. 605.
Preparation for killing bugs, worms, and vermin, Garden. Consolidated Sales Company. No. 134,435; May 18; v. 274; p. 602.
Preparation for the relief of constipation and other intestinal disorders of women. Walter-William Therapeutic Laboratories. No. 131,673; May 18; v. 274; p. 610.
Preparation for relief of inflammation and pain by cutaneous absorption. Clayton Chemical Co. No. 131,431; May 18; v. 274; p. 602.
Preparation for rheumatism and cystitis. Keasbey & Mattison Company. No. 131,513; May 18; v. 274; p. 605.
Preparation for treating eyes. Usit Mfg. Co. of America. No. 131,654; May 18; v. 274; p. 609.
Preparation for treatment of dysmenorrhea, &c. Walter-William Therapeutic Laboratories. No. 131,674; May 18; v. 274; p. 610.
Preparation for use in the treatment of piles. I. F. Rhodenbaugh. No. 131,590; May 18; v. 274; p. 607.
Preparation used for intramuscular, intravenous, subcutaneous, or local administration. The Intravenous Products Company. No. 131,502; May 18; v. 274; p. 604.
Preparations, Skin. Urego Chemical Laboratories. No. 131,653; May 18; v. 274; p. 609.
Preservative compound for preserving food. Deutsche Conservierungsgesellschaft mit beschrankter Haftung. No. 131,444; May 18; v. 274; p. 602.
Pumps employing poisonous gases for killing gophers, &c. W. R. Woodruff. No. 131,678; May 18; v. 274; p. 610.
Razor-strappers, Mechanical. Société Industrielle des Specialties Techniques S. A. No. 131,624; May 18; v. 274; p. 608.
Remedies for acid condition of the stomach. M. F. Pratt. No. 131,578; May 18; v. 274; p. 607.
Remedy, Blood. C. A. Harris. No. 131,484; May 18; v. 274; p. 604.
Remedy for chills, fevers, colds, &c. L. Duffy. No. 131,446; May 18; v. 274; p. 602.
Remedy for colds and malaria. Keasbey & Mattison Company. No. 131,514; May 18; v. 274; p. 605.
Remedy for horses, Heave. G. Leicht. No. 131,530; May 18; v. 274; p. 605.
Remedy for la grippe, colds, and headache. D. Klebanoff. No. 131,520; May 18; v. 274; p. 605.
Remedy for rheumatism and sciatica. S. Mazzone. No. 131,550; May 18; v. 274; p. 606.
Resins and volatile oils. Ungerer & Company. No. 131,646; May 18; v. 274; p. 609.
Ribbons in the piece. Johnson, Cowdin and Co. No. 131,509; May 18; v. 274; p. 604.
Rings and brooches, Finger-. E. J. Silverman. No. 131,613; May 18; v. 274; p. 608.
Rubber stamps, hand stamping and marking devices. Century Rubber Stamp Works. No. 131,427; May 18; v. 274; p. 602.
Salve. J. T. Tucker. No. 131,642; May 18; v. 274; p. 609.
Salve. P. Zatyko. No. 131,683; May 18; v. 274; p. 610
Salve for eczema. J. Hampton. No. 131,482; May 18; v. 274; p. 604.
Salve for the feet. L. Frolong. No. 131,465; May 18; v. 274; p. 603.
Salve for wounds, &c. V. Peppas. No. 131,573; May 18; v. 274; p. 607.
Salve, Healing-. A. Tramontin. No. 131,640; May 18; v. 274; p. 609.
Saw-frames and sawing outfits, certain named cutters, &c. The Hartman Company. No. 131,485; May 18; v. 274; p. 604.
Seed-planting attachment for hoes, &c. W. D. McLaughlin. No. 131,544; May 18; v. 274; p. 606.
Shampoo and hair-tonic. E. Ogur. No. 131,567; May 18; v. 274; p. 606.
Shirtings. Quinebaug Company. No. 131,584; May 18; v. 274; p. 607.
Shovels, spades, and scoops. Ames Shovel and Tool Company. No. 131,404; May 18; v. 274; p. 601.

Sieves and chaffers for use in threshing-machines. J. H. Coss. No. 131,438; May 18; v. 274; p. 602.
Silk piece goods. Haas Brothers Fabrics' Corporation. No. 131,475; May 18; v. 274; p. 603.
Silk piece goods. Puritan Silks Corporation. No. 131,583; May 18; v. 274; p. 607.
Sizing and finishing compounds for textile fabrics and threads. Seydel Manufacturing Company. No. 131,609; May 18; v. 274; p. 608.
Snap-fasteners. P. Shiu. No. 131,623; May 18; v. 274; p. 608.
Soap, Medicated. Saberton Mfg. Co. No. 131,603; May 18; v. 274; p. 608.
Soaps. A. W. Lambert, Jr., & Company. No. 131,524; May 18; v. 274; p. 605.
Soda, benzoate of soda, chlorid of lime, &c., Caustic. Southern Sales Corporation. No. 131,625; May 18; v. 274; p. 608.
Solder for aluminium. A. Mirete Ayala. No. 131,406; May 18; v. 274; p. 601.
Spark-plug. Brewster-Goldsmith Corp. No. 131,420; May 18; v. 274; p. 601.
Spark-plugs. Gets Manufacturing Company. No. 131,469; May 18; v. 274; p. 603.
Spark-plugs. Hill Insulating & Manufacturing Corporation. No. 131,489; May 18; v. 274; p. 604.
Spark-plugs. Lydon Manufacturing Co. No. 131,542; May 18; v. 274; p. 606.
Speedometers. T. Farmer, Jr. No. 131,458; May 18; v. 274; p. 603.
Starch. H. Kohnstamm & Co. No. 131,522; May 18; v. 274; p. 605.
Steel, &c., Composition for tempering. H-B Tempering Process Co. No. 131,477; May 18; v. 274; p. 603.
Steel bars, rods, billets, &c. Crucible Steel Company of America. No. 131,439; May 18; v. 274; p. 602.
Steel, Unwrought and partly-wrought. Moses Eadon & Sons. No. 131,449; May 18; v. 274; p. 602.
Stock-dipping powder and fluid, Live-. Sheep and Cattle Men's Supply Manufacturing Company. No. 131,620; May 18; v. 274; p. 608.
Sugar. H. L. Day Company. No. 131,441; May 18; v. 274; p. 602.
Suppositories, Alkaline antiseptic. Sharp & Dohme. No. 131,611; May 18; v. 274; p. 608.
Syrup and beverage made from the same, Concentrated. Fruit Valley Corporation. No. 131,466; May 18; v. 274; p. 603
Syrup, Pineapple-extract. Pearl City Fruit Co. No. 131,572; May 18; v. 274; p. 607.
Tablet, Laxative. H. E. Hovehmale. No. 131,494; May 18; v. 274; p. 604.
Tablets, Writing-. The H. D. Lee Mercantile Co. No. 131,529; May 18; v. 274, p. 605.
Tanks, Septic. Sanitary Engineering Company. No. 131,605; May 18; v. 274; p. 608.
Tanning hides, Chemical for. Rohm & Haas Company. No. 131,599; May 18; v. 274; p. 607.
Textile fabrics. Societe Rodier. No. 131,597; May 18; v. 274; p. 607.
Toilet powder. George Borgfeldt & Co. No. 131,417; May 18; v. 274; p. 601.
Toilet preparations. S. Fukuhara. No. 131,467; May 18; v. 274; p. 603.
Toilet preparations. Remiller Company. No. 131,588; May 18; v. 274; p. 607.
Tonic for the treatment of general debility, &c. T. Geary. No. 131,468; May 18; v. 274; p. 603.
Tonic preparation used for chills and fever. W. E. Speight. No. 131,616; May 18; v. 274; p. 608.
Tools and machinery. The Vulcan Plow Co. No. 131,663; May 18; v. 274; p. 610.
Tools, transmission-gears, and parts thereof, Machine. Aktiebolaget Gyro. No. 131,474; May 18; v. 274; p. 603.
Tooth-paste. A. Carreras. No. 131,424; May 18; v. 274; p. 602.
Tractors. Hebb Motors Company. No. 131,487; May 18; v. 274; p. 604.
Tractors. Turner Manufacturing Company. No. 131,643; May 18; v. 274; p. 609.
Typewriting-machine. Underwood Typewriter Company. No. 131,645; May 18; v. 274; p. 609.
Veterinary medicine. J. D. Shields. No. 131,612; May 18; v. 274; p. 608.
Voiles in the piece. M. Schwarz. No. 131,619; May 18; v. 274; p. 608.
Watchcases. Dinstman & Laske. No. 131,445; May 18; v. 274; p. 602.
Water, Artificial mineral. Valentin, Ord & Co. No. 131,655; May 18; v. 274; p. 609.
Water, Carbonated. C. G. Mangos. No. 131,546; May 18; v. 274; p. 606.
Webbing, Elastic and non-elastic. American Webbing Manufacturers Export Corporation. No. 131,403; May 18; v. 274; p. 601.
Well-drilling machinery and tools and well equipment. Longhorn Drilling & Developing Association. No. 131,537; May 18; v. 274; p. 605.
Woolen piece goods. Forstmann & Huffmann. Nos. 131,462–3; May 18; v. 274; p. 603.
Worm-exterminator. C. J. Martin. No. 131,549; May 18; v. 274; p. 606.

ALPHABETICAL LIST OF LABELS.

"Soap Baby." (For Soap.) The Pennsylvania Soap Company. No. 21,869; May 18; v. 274; p. 612.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Accounting-forms. J. H. Greenhalgh & Company. No. 127,053; May 18; v. 274; p. 585.
Alloys, Aluminum. Continental Castings Corp. No. 125,603; May 18; v. 274; p. 579.
Apparel, Ladies' and misses' wearing-. Fleishman's Cloak & Suit Company. No. 127,504; May 18; v. 274; p. 586.
Automobile and furniture polish. Lamb Railway Service Co. No. 128,690; May 18; v. 274; p. 592.
Automobile and furniture polish. E. E. Stitzel & Son. No. 128,532; May 18; v. 274; p. 591.
Automobile accessory. Orange Manufacturing Company. No. 120,844; May 18; v. 274; p. 573.
Automobile-polish. A. M. Vesper. No. 120,144; May 18; v. 274; p. 572.
Automobile sun-shields. H. J. Doyle. No. 127,853; May 18; v. 274; p. 587.
Baking-powder. Rumford Chemical Works. No 123,454; May 18; v. 274; p. 575.
Battery-testers. Service Station Supply Co. No. 129,097; May 18; v. 274; p. 594.
Batteries and parts thereof, Storage. The Hartford Battery Manufacturing Company. No. 129,386; May 18; v. 274; p. 595.
Batteries, Electric. Burgess Battery Company. No. 129,169; May 18; v. 274; p. 594.
Beverage, Non-alcoholic non-cereal maltless flavored. Schweppes, Limited. No. 125,439; May 18; v. 274; p. 579.
Beverage, Non-alcoholic non-intoxicating. St. Louis Beverage Company. No. 126,072; May 18; v. 274; p. 580.
Beverages, Non-intoxicating malt. Fred Krug Products Co. No. 104,935; May 18; v. 274; p. 567.
Bicycles. Harper & McIntire Company. No. 130,896; May 18; v. 274; p. 599.
Boilers, Steam-. F. A. Patrick & Co. No. 130,928; May 18; v. 274; p. 599.
Books in which saving-stamps will be pasted, Blank. W. M. Hoerner. No. 119,123; May 18; v. 274; p. 572.
Books, Memorandum-. Rosenblum & Kern. No. 110,148; May 18; v. 274; p. 568.
Books, pads, and tablets, Blank. Boorum & Pease Co. No. 126,952; May 18; v. 274; p. 585.
Boots and shoes. Lynchburg Shoe Company. No. 128,511; May 18; v. 274; p. 591.
Bread. L. Weinberg Baking Co. No. 115,021; May 18; v. 274; p. 569.
Bread. D. P. Woolley. No. 128,631; May 18; v. 274; p. 592.
Bread. D. P. Woolley. No. 128,633; May 18; v. 274; p. 592.
Brilliantine rose, cold-cream, cuticle-powder, &c. The Lustr-Ite Corporation. No. 125,893; May 18; v. 274; p. 580.
Building and play blocks and blocks for games. Halsam Products Company. No. 127,510; May 18; v. 274; p. 586.
Burners, Self-generating gas-. Hyco Fuel Products Corpn. No. 126,933; May 18; v. 274; p. 584.
Buttermilk, Powdered. Collis Products Company. No. 121,107; May 18; v. 274; p. 573.
Cabinets, Phonograph-. The Veratone Phonograph Co. No. 125,588; May 18; v. 274; p. 579.
Candies. E. Davis. No. 121,660; May 18; v. 274; p. 573.
Candies. W. A. Easterday. No. 128,770; May 18; v. 274; p. 593.
Candies. Robert A. Johnson Co. No. 128,507; May 18; v. 274; p. 591.
Candies and chocolates. Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 129,639; May 18; v. 274; p. 596.
Candy. J. Lang. No. 127,374; May 18; v. 274; p. 585.
Canned fruit in glass, preserves in glass, &c. Haas, Baruch & Co. No. 126,857; May 18; v. 274; p. 584.
Canned pork and beans, apple butter, jams and jelly. Acme Packing Co. No. 128,987; May 18; v. 274; p. 594.
Canned sardines. William Underwood Company. No. 129,518; May 18; v. 274; p. 596.
Canned shrimp. C. B. Foster. No. 95,518; May 18; v. 274; p. 567.
Canned vegetables. Dixie Fruit Products Corporation. No. 129,170; May 18; v. 274; p. 594.
Canned vegetables. Johnson & Murray. No. 126,863; May 18; v. 274; p. 584.
Carbons, Electric. The General Electric Company. No. 119,234; May 18; v. 274; p. 572.
Carbureters. The Aero Products Company. No. 129,438; May 18; v. 274; p. 595.
Cement for the construction and repair of furnaces. Laclede-Christy Clay Products Company. No. 115,391; May 18; v. 274; p. 570.
Cement, Liquid fiber roofing-. D. Bernsteen. No. 115,238; May 18; v. 274; p. 569.
Checks, Bank-. C. J. Korndorfer. No. 128,099; May 18; v. 274; p. 588.
Cigarettes. British-American Tobacco Company. No. 120,370; May 18; v. 274; p. 572.
Clasps, Lingerie, scarf, collar, and bib. M. & G. Novelty Company. No. 129,149; May 18; v. 274; p. 594.
Cleaning compound, Rug-. J. G. Alexanian. No. 120,863; May 18; v. 274; p. 573.
Cleaning preparation for articles of straw, &c. The Kleenx Company. No. 128,271; May 18; v. 274; p. 590.
Cleansing compound for removing grease-spots from fabrics. M. Solomon. No. 102,673; May 18; v. 274; p. 567.
Clevises, clod-crushers, seed-drills, &c. The Farm Equipment Co. No. 126,686; May 18; v. 274; p. 583.
Collars, Men's soft silk. B. Stromberg. No. 128,476; May 18; v. 274; p. 591.
Cookers, Animal-feed. The Hartman Company. No. 126,377; May 18; v. 274; p. 582.
Cookers, toasters, ovens, &c., Electric. "Bestov" Manufacturing Co. No. 130,406; May 18; v. 274; p. 598.
Cosmetics. Seligman and Latz. No. 126,654; May 18; v. 274; p. 583.
Cotton and linen embroideries in the piece. Thos. Rowbottom Co. No. 125,581; May 18; v. 274; p. 579.
Cotton piece goods. Wm. Simpson, Sons & Co. No. 129,576; May 18; v. 274; p. 596.
Cough candy, drops, and lozenges. Aubrey-Becker Sales Co. No. 125,358; May 18; v. 274; p. 578.
Coverings cut and fitted for attachment to the platens or rolls of typewriters and adding-machines, Protective. C. I. Hendricks. No. 126,725; May 18; v. 274; p. 583.
Cranes. Chesapeake Iron Works. No. 114,642; May 18; v. 274; p. 569.
Cream, Shaving-. F. De Palmer. No. 128,558; May 18; v. 274; p. 591.
Crepe-de-chine piece goods, Silk-filled. Nathan and Cohen Co. No. 129,735; May 18; v. 274; p. 579.
Cutlery, machinery, tools, and parts thereof. Aktiebolaget Ingeniorsfirman G. A. Lindstedt & Co. No. 115,377; May 18; v. 274; p. 569.
Cutlery of base metal, dies for engraving stationery, &c., Table-. Tiffany & Company. No. 128,236; May 18; v. 274; p. 590.
Dentifrice. The Forsyth Dental Infirmary for Children. No. 124,983; May 18; v. 274; p. 577.
Die-heads, collapsible taps, threading and screw machines, Automatic. The Eastern Machine Screw Corporation, The. No. 126,678; May 18; v. 274; p. 583.
Dish-washing and washing machines. Bromley-Merceles Mfg. Co. No. 124,134; May 18; v. 274; p. 576.
Dolls. M. M. Graham. No. 127,483; May 18; v. 274; p. 586.
Dolls. Notaseme Hosiery Company. No. 130,388; May 18; v. 274; p. 598.
Dresses, Children's. W. E. Graves. No. 129,460; May 18; v. 274; p. 595.
Dresses, skirts, middy-blouses, and bloomers, Children's and ladies'. Schreiber & Wallach. No. 128,565; May 18; v. 274; p. 591.
Dyestuffs. The Grasselli Chemical Co. No. 126,902; May 18; v. 274; p. 584.
Dyestuffs. Sonn Brothers Company. Nos. 126,146–52; May 18; v. 274; pp. 580–1.
Eggs, Fresh. Tilden Produce Co. No. 90,102; May 18; v. 274; p. 567.
Electric current for therapeutic purposes, Sets of apparatus for generating, &c. McIntosh Battery and Optical Co. No. 113,297; May 18; v. 274; p. 569.
Electric-light-fixture parts. Phoenix Light Company. No. 129,801; May 18; v. 274; p. 597.
Electrical transformers. The States Company. No. 129,991; May 18; v. 274; p. 597.
Envelops, papeteries, and writing-tablets, Mailing-. The Central Ohio Paper Co. No. 128,484; May 18; v. 274; p. 591.
Eyeglasses. C. L. Hogue. No. 128,306; May 18; v. 274; p. 590.
Fats used in the manufacture of ointment. De Nordiske Fabriker. De-No-Fa Aktieselskab. No. 120,988; May 18; v. 274; p. 573.

Fertilizers. | Armour Fertilizer Works. No. 127,026; May 18; v. 274; p. 585.
Fire-extinguishers, Hand. The Ralko Products Company. No. 124,734; May 18; v. 274; p. 577.
Flavoring extracts, Food-. Ades Product Corporation. No. 128,482; May 18; v. 274; p. 591.
Flour, Wheat-. Omaha Flour Mills Co. No. 129,648; May 18; v. 274; p. 597.
Flour, Wheat-. Robin Hood Mills, Limited. No. 126,542; May 18; v. 274; p. 582.
Foods in hermetically-sealed cans. H. P. Strasbaugh. No. 128,745; May 18; v. 274; p. 593.
Foods, particularly bird-seed. Animal. R. T. Harding. No. 129,546; May 18; v. 274; p. 596.
Fruits. F. L. Granger. No. 128,600; May 18; v. 274; p. 592.
Fruits and vegetables, Fresh. Mexico Arizona Trading Company. No. 125,468; May 18; v. 274; p. 579.
Fruits, Citrus. Goldenwest Citrus Assn. No. 111,107; May 18; v. 274; p. 568.
Furnaces, burners, and torches, Gas soldering and soft-metal. Charles A. Hones, Inc. No. 130,759; May 18; v. 274; p. 599.
Furniture. H. Freedman. No. 124,207; May 18; v. 274; p. 576.
Furniture-polish. M. Sherman. No. 112,773; May 18; v. 274; p. 568.
Game, Table ball. A. S. Iles. No. 125,284; May 18; v. 274; p. 578.
Gasolene, benzin, naphtha, fuel-oil, &c. Beaver Refining Company. No. 124,387; May 18; v. 274; p. 576.
Grain-drills, broadcast fertilizer-sowers, &c. The American Seeding-Machine Company. No. 128,132; May 18; v. 274; p. 589.
Grinding machines, Stock-feed-. S. Cheney & Son. No. 120,818; May 18; v. 274; p. 572.
Gum-shellac, Bleached. Wm. Zinsser & Co. No. 128,262; May 18; v. 274; p. 590.
Hair-dressing, Pomade. J. J. Kaufman. No. 125,752; May 18; v. 274; p. 579.
Hair-grower. M. E. Watson. No. 126,338; May 18; v. 274; p. 582.
Hair-nets. The Bloch Chemical Company. No. 128,072; May 18; v. 274; p. 588.
Hair-nets. S. Glemby, Inc. Nos. 129,838–40; May 18; v. 274; p. 597.
Hair-nets. Hartmann Brothers. No. 126,380; May 18; v. 274; p. 582.
Hair-tonic. H. F. Feeback. No. 124,930; May 18; v. 274; p. 577.
Hats, Pattern-. Lynn-Kerr & Co. No. 123,267; May 18; v. 274; p. 574.
Hops. Geo. Herrmann Company. No. 128,843; May 18; v. 274; p. 593.
Hosiery. W. T. Grant Co. No. 128,207; May 18; v. 274; p. 589.
Hosiery. Muller Export Company. No. 129,413; May 18; v. 274; p. 595.
Ice, Artificial. General Necessities Corporation. No. 123,889; May 18; v. 274; p. 576.
Ice-cream. The Reid Ice Cream Company. No. 128,323; May 18; v. 274; p. 590.
Ice-cream and charlotte-russe. The Reid Ice Cream Company. No. 128,322; May 18; v. 274; p. 590.
Inks of all kinds, metal-stamp inks, &c., Writing. Pomeroy Ink Manufacturing Co. Nos. 128,167–8; May 18; v. 274; p. 589.
Insecticide and vermin-exterminator. C. J. Martin. No. 130,426; May 18; v. 274; p. 598.
Iron and steel, Plain, corrugated, round, square, and flat. Tennessee Coal, Iron & Railroad Company. No. 127,843; May 18; v. 274; p. 587.
Jewelry. W. Reed Williams (1908). No. 125,819; May 18; v. 274; p. 580.
Jewelry, not including watches. Shiman-Miller Manufacturing Company. No. 126,655; May 18; v. 274; p. 583.
Leather-dressing. Whittemore Brothers Corporation. No. 120,902; May 18; v. 274; p. 573.
Leather, Side-. Perkins & McNeely. No. 125,195; May 18; v. 274; p. 578.
Lenses for spectacles and eyeglasses, Optical. L. A. Hellig. No. 127,592; May 18; v. 274; p. 586.
Liniment. G. H. Wood. No. 125,519; May 18; v. 274; p. 579.
Liniment for the treatment of rheumatism. Jordan and Hamble Compounding Company. No. 126,036; May 18; v. 274; p. 580.
Liniment, salve, &c. N. E. Marshburn. No. 123,287; May 18; v. 274; p. 575.
Liniments, cough medicines, tonics &c. The Polonia Drug Company. No. 117,852; May 18; v. 274; p. 571.
Machinery and parts thereof for treating coffee, spices, &c. Jabez Burns & Sons. No. 125,217; May 18; v. 274; p. 578.
Macaroni. E. M. Schisa. No. 124,494; May 18; v. 274; p. 576.
Machines, Calculating-. The American Calculating Machine Co. No. 131,199; May 18; v. 274; p. 599.
Mattresses, metal beds, couches, &c. Salisbury & Satterlee Co. No. 128,703; May 18; v. 274; p. 593.
Measuring and cost-computing machines, Fabric-. The Measuregraph Company. No. 127,561; May 18; v. 274; p. 586.
Measuring-tapes, field and marine glasses, &c. Tiffany & Company. Nos. 128,238–9; May 18; v. 274; p. 590.
Medicinal preparation for cholera in hogs and poultry. L. Scott. No. 115,412; May 18; v. 274; p. 570.
Medicine, Cough. U. S. Pharmaceutical Manufacturing Company. No. 123,466; May 18; v. 274; p. 575.
Medicine for headache, neuritis, colds, &c. H. G. Wilson. No. 124,505; May 18; v. 274; p. 576.
Medicine for the treatment of mumps, measles, cholera, and liver-troubles in hogs. Sons and Daughters of Levi. No. 125,065; May 18; v. 274; p. 578.
Medicine for ground-itch on children and sorehead on chickens. R. Allen. No. 126,982; May 18; v. 274; p. 585.
Medicine for the treatment of tuberculosis, bronchitis, and asthma. J. W. Wood. No. 125,138; May 18; v. 274; p. 578.
Medicine used in the treatment of chills, fever, malaria, &c. F. B. McCrackin. No. 125,717; May 18; v. 274; p. 579.
Medicine used in the treatment of tuberculosis. M. Hall. No. 126,994; May 18; v. 274; p. 585.
Medicines for stomach, bowel, liver, and similar troubles, and for the blood. The Atlantic Remedies Co. No. 127,626; May 18; v. 274; p. 587.
Medicines for the prevention of infections of the urinary tract. E. Fougera & Co. No. 126,312; May 18; v. 274; p. 581.
Metal-working boring-bars, cutters, drills, &c. R. L. Johnson. No. 119,478; May 18; v. 274; p. 572.
Metals, Babbitt. Premium Metal & Packing Co. No. 124,532; May 18; v. 274; p. 576.
Middy-blouses. Z. & S. Middy Co. No. 129,365; May 18; v. 274; p. 595.
Milling, turning, and the like metal-working machinery, Blades and cutters for. The Haynes Stellite Co. No. 116,051; May 18; v. 274; p. 570.
Mirrors and picture-frames, Hand and bonnet. Samstag & Hilder Bros. No. 127,662; May 18; v. 274; p. 587.
Mouthpiece attachments for the transmitters of telephones. The Anti Bacilli Company. No. 129,037; May 18; v. 274; p. 594.
Music-playing instruments and music-rolls therefor, Mechanical. The Wilcox & White Co. No. 125,097; May 18; v. 274; p. 578.
Musical-instrument strings. Armour and Company. Nos. 128,913–14; May 18; v. 274; p. 593.
Musical-instrument strings. Armour and Company. Nos. 129,366–7; May 18; v. 274; p. 595.
Oil, Lubricating-. Charleston Oil Company. No. 122,042; May 18; v. 274; p. 574.
Oil, Olive-. J. Bau. Nos. 116,875–7; May 18; v. 274; p. 571.
Oil, Olive-. José Sanchis de Quesada. No. 118,542; May 18; v. 274; p. 572.
Oil substitute, Linseed-. Douglas Paint Oil Co. No. 121,461; May 18; v. 274; p. 573.
Oils, Cutting-. D. A. Stuart & Co. No. 128,374; May 18; v. 274; p. 590.
Ointment of a petrolatum base. E. H. Koss. No. 130,172; May 18; v. 274; p. 598.
Overalls, work and dress shirts. Head-Lipscomb-McCormick Co. No. 105,802; May 18; v. 274; p. 567.
Pads, Forehead and under-chin. Radior Co. Ltd. of London. No. 125,243; May 18; v. 274; p. 578.
Paper and mailing-envelops. Forest Paper Company. No. 114,536; May 18; v. 274; p. 569.
Paper and mailing-envelops, Writing-. American Writing Paper Company. No. 128,991; May 18; v. 274; p. 594.
Paper and paper napkins, Toilet, silk, Japanese, &c. Waldes & Co. No. 121,050; May 18; v. 274; p. 573.
Paper and writing-tablets. The Paper Mill's Company. No. 112,919; May 18; v. 274; p. 568.
Paper boxes and cartons. P. Zalkind. No. 126,407; May 18; v. 274; p. 582.
Paper-holders, Memorandum. Accounting Machine Company. No. 127,568; May 18; v. 274; p. 586.
Paper or pulp towels. The Lily Cup Company. No. 117,120; May 18; v. 274; p. 571.
Paper patterns for men's clothes. R. J. Burgan. No. 124,879; May 18; v. 274; p. 577.
Paper, Printing-. The Whitaker Paper Company. No. 127,950; May 18; v. 274; p. 588.
Paper-stock, book, newspaper, and wrapping paper, Finished. Morey and Company. No. 124,310; May 18; v. 274; p. 576.
Paper tablets, composition and note books, &c., Writing-. White & Wyckoff Manufacturing Company. No. 128,032; May 18; v. 274; p. 588.
Paper towels and toilet-paper. Rochester Germicide Company. No. 123,080; May 18; v. 274; p. 574.
Paper, Waterproof wrapping and lining. Angier Mills. No. 108,337; May 18; v. 274; p. 568.
Paper, Wrapping-. Whitaker Paper Company. No. 127,880; May 18; v. 274; p. 587.
Paper, Writing and printing. American Writing Paper Company. No. 128,992; May 18; v. 274; p. 594.

Paste for skin irritations, bites, and poisonings. F. W. Schoonmaker, Incorporated. No. 119,053; May 18; v. 274; p. 572.
Pearls. Monroe Block & Co. No. 127,628; May 18; v. 274; p. 587.
Pencils, Magazine lead-. New Diamond Point Pen Co. No. 124,914; May 18; v. 274; p. 577.
Pens, Feeding attachment for. C. F. Clarke. No. 129,536; May 18; v. 274; p. 596.
Perfumes, toilet-water, face-powder, &c. Lazell Perfumer. No. 123,813; May 18; v. 274; p. 576.
Photograph-mountings. J. E. Gibson. No. 128,063; May 18; v. 274; p. 588.
Pianos. Paul G. Mehlin & Sons. No. 127,382; May 18; v. 274; p. 586.
Picture films, Motion-. Simlec Film Company. No. 122,579; May 18; v. 274; p. 574.
Pipes, cigar and cigarette holders, Smokers'. Kaufmann Bros. and Bondy. No. 126,473; May 18; v. 274; p. 582.
Polish, cleaning, and preserving preparations for stoves. Russia Cement Company. No. 128,523; May 18; v. 274; p. 591.
Potatoes, Sweet. Mutual Service Corporation. No. 128,609; May 18; v. 274; p. 592.
Preparation for polishing automobiles, furniture, and stained and hardwood floors, Waxy. A. G. Briggs. No. 127,888; May 18; v. 274; p. 588.
Preparation for treating influenza, pneumonia, &c., prepared in the form of an ointment. The Balsamea Co. No. 126,951; May 18; v. 274; p. 584.
Preparation to be incorporated with or applied to cement and concrete, Liquid. The Master Builders Company. No. 113,225; May 18; v. 274; p. 569.
Printing, &c., tickets, Machines for. The National Cash Register Company. No. 123,751; May 18; v. 274; p. 575.
Printing-presses, bed-plates and grips for printing-presses, pad-cutters, &c. Meisel Press Manufacturing Company. No. 107,028; May 18; v. 274; p. 568.
Pumps. Keystone Driller Company. No. 128,689; May 18; v. 274; p. 592.
Pumps, Vacuum suction-. American Device Manufacturing Company. No. 126,949; May 18; v. 274; p. 584.
Razors, pocket-knives, scissors, hair-clips, &c. C. F. Maus. Nos. 129,267–8; May 18; v. 274; p. 594.
Remedies, cough medicine, liniment, hair-tonic, Corn. J. C. Jonas. No. 123,811; May 18; v. 274; p. 575.
Remedies, Laxative medicinal. E. R. Marten. No. 127,064; May 18; v. 274; p. 585.
Rubber erasers. Joseph Dixon Crucible Company. No. 123,617; May 18; v. 274; p. 575.
Rubber erasers. Joseph Dixon Crucible Company. No. 123,619; May 18; v. 274; p. 575.
Saws, Drag-. W. H. Worden Company. No. 127,953; May 18; v. 274; p. 588.
Scales, Weighing-. Mason, Davis & Company. No. 128,737; May 18; v. 274; p. 593.
Scoops, Sink-. S. Berger. No. 124,928; May 18; v. 274; p. 577.
Seeds, Field-. Southwest Flour & Feed Company. No. 127,742; May 18; v. 274; p. 587.
Sheets and pillow-cases. The Fair. No. 126,569; May 18; v. 274; p. 582.
Shirts and soft collars, Dress and negligé. E. L. Barton. No. 127,999; May 18; v. 274; p. 588.
Shirts, (dress, negligeé, and work,) collars, and cuffs. The Quaker City Shirt Manufacturing Company. No. 126,944; May 18; v. 274; p. 584.
Shoes. The W. E. Tuttle Co. No. 127,949; May 18; v. 274; p. 588.
Shoes, Athletic. Wisconsin Shoe Company. No. 128,189; May 18; v. 274; p. 589.
Silk piece goods. Empire Silk Company. No. 129,627; May 18; v. 274; p. 596.
Silk threads and yarns, Natural and artificial. The H. K. H. Silk Co. of New York. Nos. 130,416–17; May 18; v. 274; p. 598.
Silks in pieces, Plain and printed broad. Friedman & Moss. No. 129,495; May 18; v. 274; p. 596.
Silks in the piece, Broad. W. M. Alford & Sons. No. 124,703; May 18; v. 274; p. 577.
Soap. R. Altman & Co. No. 128,583; May 18; v. 274; p. 592.
Soap. A. Kasser. No. 129,553; May 18; v. 274; p. 596.
Soap. B Parker. No. 128,895; May 18; v. 274; p. 593.
Soap. The Procter and Gamble Company. No. 128,980; May 18; v. 274; p. 594.
Soap, Hand-. The Cope-Walton Co. No. 129,538; May 18; v. 274; p. 596.
Soap, Paste. The Ohio Varnish Company. No. 118,325; May 18; v. 274; p. 571.
Soap, Powdered. The Pal-O'-Mine Sanitary Soap Company. No. 128,897; May 18; v. 274; p. 593.
Soap, Toilet and shaving. Solon Palmer. No. 129,512; May 18; v. 274; p. 596.
Spark-plug intensifiers. J. F. Wing. No. 116,121; May 18; v. 274; p. 570.
Sprayers. W. N. Matthews and Brother. No. 129,467; May 18; v. 274; p. 595.
Starch, Laundry. The Keever Starch Co. No. 127,478; May 18; v. 274; p. 586.
Stationery. T. Nakayama. No. 122,224; May 18; v. 274; p. 574.
Steel, Cold-drawn. Wyckoff Drawn Steel Co. No. 127,988; May 18; v. 274; p. 588.
Stove-polish. Hoosier Chemical Company. No. 129,389; May 18; v. 274; p. 595.
Sugar, American wheat-flour, tea. Lamborn & Co. No. 111,881; May 18; v. 274; p. 568.
Syrup, Cane-. Malone & Hyde. No. 109,564; May 18; v. 274; p. 568.
Tablets, envelops, &c., Writing-. Osborn Paper Co. No. 129,242; May 18; v. 274; p. 594.
Tanks, tool-chests, and canteens for automobiles. S. C. Pandolfo. No. 123,256; May 18; v. 274; p. 574.
Telephone-index blank. J. F. Hutchinson. No. 128,926; May 18; v. 274; p. 593.
Textile machinery and apparatus, Accessories for the textile industry, &c. Maschinenfabrik Schweiter, A-G. No. 113,493; May 18; v. 274; p. 569.
Tire-patch. R. L. Bartholomew. No. 126,443; May 18; v. 274; p. 582.
Tire-repair outfits. The Palmer Tire Company. No. 126,057; May 18; v. 274; p. 580.
Tires and tubes for vehicles, Rubber or rubber and fabric. McClaren Rubber Company. No. 126,587; May 18; v. 274; p. 582.
Tobacco, cigars, and cigarettes, Smoking and chewing. J. Christoforides. No. 123,512; May 18; v. 274; p. 575.
Tonic, General medicinal. B. Dowjat. No. 125,945; May 18; v. 274; p. 580.
Tonic for aiding the digestion organs and improving the appetite. W. J. Hurley. No. 126,730; May 18; v. 274; p. 583.
Tonic for the bowel action and improving the digestion. W. J. Hurley. No. 126,729; May 18; v. 274; p. 583.
Tooth-paste. The Dentocide Chemical Co. No. 126,762; May 18; v. 274; p. 583.
Tractor accessories. Hughes & Curren Co. No. 122,046; May 18; v. 274; p. 574.
Tractors, internal-combustion engines, harvesters, &c. The Holt Manufacturing Company. No. 127,689; May 18; v. 274; p. 587.
Trunks, suitcases, traveling-bags, and handbags. Rogers & Madison Trunk Corporation. No. 127,262; May 18; v. 274; p. 585.
Underwear, Men's and boys' athletic. Cohn, Goldwater Company. No. 125,049; May 18; v. 274; p. 577.
Varnishes, furniture and automobile polishes, &c. The Glidden Company. Nos. 128,152–3; May 18; v. 274; p. 589.
Voiles and sateen in the piece. Henry Glass & Co. Nos. 130,135–6; May 18; v. 274; p. 598.
Waists for outer wear, Ladies' and misses'. The Arrow Brand Hemstitching & Tucking Co. No. 128,588; May 18; v. 274; p. 592.
Washing-tablets. United Soap Products Co. No. 129,763; May 18; v. 274; p. 597.
Waterproofing and preserving automobile-tops, &c., Preparation for. W. B. Price. No. 127,447; May 18; v. 274; p. 586.
Waterers and coops, Chicken. Harper & McIntire Company No. 130,892; May 18; v. 274; p. 599.
Wire and particularly magnet-wire. The Toledo Enameled Wire Products Co. No. 128,120; May 18; v. 274; p. 589.
Woolen piece goods. Forstmann & Huffmann Co. No. 129,974; May 18; v. 274; p. 597.
Woolen piece goods. Forstmann & Huffmann Co. No. 130,131; May 18; v. 274; p. 598.
Zinc stearate. The Stearyte Co. No. 100,978; May 18; v. 274; p. 567.

CLASSIFICATION OF PATENTS

ISSUED MAY 18, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 47: 1,340,705
2— 41: 1,340,381
60: 1,340,351
84: 1,340,755
126: 1,340,276
149: 1,340,701
150: 1,340,465
3— 6: 1,340,239
4— 18: 1,340,611
19: 1,340,680
21: 1,340,567
5— 4: 1,340,609
37: 1,340,212
1,340,735
39: 1,340,510
40: 1,340,540
41: 1,340,338
58: 1,340,694
72: 1,340,204
8— 13: 1,340,246
9— 6: 1,340,441
22: 1,340,847
10— 114: 1,340,227
12— 1: 1,340,143
1,340,825
23: 1,340,520
13— 9: 1,340,691
15— 16: 1,340,283
37: 1,340,760
46: 1,340,775
59: 1,340,794
16— 5: 1,340,151
11: 1,340,862
48: 1,340,866
77: 1,340,621
108: 1,340,430
159: 1,340,476
171: 1,340,604
17— 24: 1,340,219
18— 2: 1,340,234
1,340,776
13: 1,340,463
18: 1,340,641
1,340,642
34: 1,340,440
52: 1,340,777
19— 9: 1,340,201
20— 28: 1,340,506
38: 1,340,161
62: 1,340,252
21— 69: 1,340,220
1,340,697
1,340,773
22— 9: 1,340,658
65: 1,340,337
79: 1,340,422
23— 1: 1,340,290
3: 1,340,346
1,340,838
13: 1,340,649
24: 1,340,603
1,340,696
42: 1,340,490
24— 66: 1,340,180
88: 1,340,558
109: 1,340,390
134: 1,340,851
135: 1,340,730
143: 1,340,669
159: 1,340,533
168: 1,340,302
174: 1,340,792
194: 1,340,303
1,340,821
205: 1,340,187
206: 1,340,284
226: 1,340,334
261: 1,340,745
25— 27: 1,340,452
41: 1,340,860
45: 1,340,824
135: 1,340,633
156: 1,340,308
26— 7: 1,340,482
8: 1,340,809
28— 4: 1,340,425
40: 1,340,487
29— 18: 1,340,149
70: 1,340,400
83: 1,340,509
87.1: 1,340,192
105: 1,340,474
148: 1,340,166
1,340,844
167: 1,340,528
30— 11: 1,340,800
32— 5: 1,340,213
33— 46: 1,340,573
56: 1,340,453
63: 1,340,619
64: 1,340,618
31— 68: 1,340,479
33— 76: 1,340,623
134: 1,340,218
174: 1,340,354
191: 1,340,473
34— 5: 1,340,692
35— 8: 1,340,529
36— 22: 1,340,404
30: 1,340,341
34: 1,340,571
54: 1,340,503
72: 1,340,356
37— 7: 1,340,497
9: 1,340,445
33: 1,340,247
56: 1,340,385
60: 1,340,263
40— 10: 1,340,387
16: 1,340,724
132: 1,340,145
140: 1,340,778
145.1: 1,340,711
159: 1,340,369
41— 10: 1,340,863
33: 1,340,342
43— 4: 1,340,677
24: 1,340,372
37: 1,340,780
76: 1,340,801
81: 1,340,442
119: 1,340,779
137: 1,340,767
45— 2: 1,340,562
11: 1,340,370
28: 1,340,327
52: 1,340,766
54: 1,340,317
96: 1,340,319
46— 9: 1,340,395
27: 1,340,570
31: 1,340,758
37: 1,340,394
1,340,614
40: 1,340,160
1,340,848
41: 1,340,512
46: 1,340,746
56: 1,340,278
1,340,304
1,340,612
47— 22: 1,340,631
48— 204: 1,340,495
49— 38: 1,340,366
51— 4: 1,340,408
1,340,409
29: 1,340,756
211: 1,340,751
53— 1: 1,340,336
1,340,566
6: 1,340,659
54— 24: 1,340,271
55— 45: 1,340,624
108: 1,340,796
56— 16: 1,340,461
44: 1,340,577
58: 1,340,816
351: 1,340,763
395: 1,340,391
424: 1,340,781
59— 25: 1,340,639
80: 1,340,765
60— 13: 1,340,527
41: 1,340,563
60— 51: 1,340,547
61— 47: 1,340,670
56: 1,340,397
62— 4: 1,340,646
63— 21: 1,340,206
64— 34: 1,340,808
36: 1,340,663
39: 1,340,693
49: 1,340,396
59: 1,340,250
1,340,310
70: 1,340,456
90: 1,340,610
91: 1,340,368
1,340,447
65— 49: 1,340,551
66— 7: 1,340,152
12: 1,340,681
1,340,695
17: 1,340,255
1,340,541
67— 50: 1,340,424
87: 1,340,843
68— 3: 1,340,159
9: 1,340,519
1,340,522
10: 1,340,265
26: 1,340,257
32: 1,340,772
34: 1,340,494
37: 1,340,543
70— 9: 1,340,850
19: 1,340,583
47: 1,340,804
126: 1,340,326
128: 1,340,393
71— 9: 1,340,708
72— 71: 1,340,291
88: 1,340,656
88: 1,340,459
105: 1,340,752
73— 28: 1,340,203
109: 1,340,198
110: 1,340,148
1,340,399
165: 1,340,275
74— 5: 1,340,802
1,340,823
7: 1,340,829
14: 1,340,329
17: 1,340,171
1,340,172
1,340,173
33: 1,340,638
45: R. 14,857
46: 1,340,301
1,340,333
54: 1,340,486
58: 1,340,585
101: 1,340,328
106: 1,340,620
109: 1,340,650
112: 1,340,321
115: 1,340,323
118: 1,340,322
75— 1: 1,340,451
14: 1,340,548
17: 1,340,580
76— 114: 1,340,560
77— 63: 1,340,841
78— 50: 1,340,196
52: 1,340,361
96: 1,340,640
79— 3: 1,340,515
81— 3: 1,340,787
36: 1,340,147
1,340,477
102: 1,340,622
169: 1,340,287
82— 21: 1,340,811
83— 11: 1,340,643
13: 1,340,635
26: 1,340,714
71: 1,340,457
91: 1,340,353
1,340,732
84— 24: 1,340,162
84— 146: 1,340,628
150: 1,340,569
161: 1,340,175
1,340,390
85— 3: 1,340,470
86— 45: 1,340,432
47: 1,340,737
87— 4: 1,340,653
5: 1,340,315
7: 1,340,721
9: 1,340,316
12: 1,340,186
88— 16: 1,340,539
1,340,557
41: 1,340,579
54: 1,340,189
1,340,715
89— 7: 1,340,689
13: 1,340,791
21: 1,340,215
40: 1,340,415
90— 12.5: 1,340,359
21: 1,340,584
1,340,586
36: 1,340,256
58: 1,340,741
91— 31: 1,340,294
44: 1,340,645
55: 1,340,544
68: 1,340,655
93— 58: 1,340,558
95— 75: 1,340,209
1,340,511
97— 11: 1,340,392
42: 1,340,784
27: 1,340,673
98— 3: 1,340,388
100— 47: 1,340,407
66: 1,340,221
288: 1,340,380
378: 1,340,355
407: 1,340,194
102— 3: 1,340,288
16: 1,340,245
29: 1,340,546
39: 1,340,536
103— 43: 1,340,472
44: 1,340,632
52: 1,340,596
1,340,597
79: 1,340,165
104— 92: 1,340,208
105— 117: 1,340,762
362: 1,340,188
368: 1,340,438
377: 1,340,667
420: 1,340,576
106— 31: 1,340,181
107— 4: 1,340,805
8: 1,340,371
108— 5.4: 1,340,685
7: 1,340,347
8: 1,340,348
80: 1,340,545
110— 40: 1,340,725
44: 1,340,274
108: 1,340,549
162: 1,340,865
111— 5: 1,340,836
54: 1,340,654
112— 147: 1,340,782
266: 1,340,460
113— 19: 1,340,842
38: 1,340,634
112: 1,340,264
116: 1,340,449
116— 52: 1,340,292
1,340,363
114: 1,340,216
1,340,830
126: 1,340,727
119— 98: 1,340,357
120— 17: 1,340,331
28: 1,340,411
48: 1,340,277
121— 4: 1,340,505
67: 1,340,625
121— 163: 1,340,405
122— 352: R. 14,859
391: 1,340,144
123— 54: 1,340,651
59: 1,340,229
1,340,481
154— 47: 1,340,737
66: 1,340,223
90: 1,340,211
1,340,717
96: 1,340,362
122: 1,340,580
124: 1,340,734
129: 1,340,444
169: 1,340,232
1,340,526
1,340,647
175: 1,340,389
187.5: 1,340,281
124— 12: 1,340,190
125— 42: 1,340,589
126— 38: 1,340,421
39: 1,340,615
45: 1,340,367
99: 1,340,340
214: 1,340,666
350: 1,340,852
128— 80: 1,340,700
94: 1,340,630
178: 1,340,433
198: 1,340,662
203: 1,340,448
321: 1,340,501
129— 8: 1,340,157
9: 1,340,757
15: 1,340,410
16: 1,340,140
1,340,251
16.1: 1,340,384
130— 4: 1,340,419
30: 1,340,607
132— 3: 1,340,379
17: 1,340,817
19: 1,340,738
134— 24: 1,340,747
51: 1,340,855
56: 1,340,600
135— 18: 1,340,375
53: 1,340,616
1,340,617
137— 13: 1,340,352
53: 1,340,719
1,340,832
75: 1,340,818
77: 1,340,176
99: 1,340,167
101: 1,340,365
1,340,846
139— 46: 1,340,330
85: 1,340,207
140— 26: 1,340,530
141— 7: 1,340,768
9: 1,340,517
143— 40: 1,340,286
144— 130: 1,340,709
145— 35: 1,340,742
148— 24: 1,340,437
149— 20: 1,340,262
150— 8: 1,340,236
151— 21: 1,340,496
24: 1,340,602
152— 1: 1,340,556
8: 1,340,272
1,340,592
1,340,593
152— 21: 1,340,671
23: 1,340,485
114: 1,340,484
153— 32: 1,340,320
65: 1,340,206
1,340,516
154— 5: 1,340,703
14: 1,340,702
1,340,704
28: 1,340,812
45: 1,340,332
155— 6: 1,340,467
9: 1,340,754
184: 1,340,475
196: 1,340,753
156— 23: 1,340,684
39: 1,340,797
158— 3: 1,340,202
27.4: 1,340,690
31: 1,340,383
60: 1,340,803
113: 1,340,226
161— 1: 1,340,358
15: 1,340,324
164— 17: 1,340,402
29: 1,340,235
49: 1,340,706
61: 1,340,225
166— 19: 1,340,295
167— 3: 1,340,661
168— 19: 1,340,764
169— 32: 1,340,601
171— 229: 1,340,678
172— 152: 1,340,240
179: R. 14,861
1,340,679
173— 264: 1,340,839
359: 1,340,856
367: 1,340,268
175— 30: 1,340,657
183: 1,340,197
336: 1,340,698
364: 1,340,502
176— 10: 1,340,499
177— 327: 1,340,343
1,340,537
179— 6.3: 1,340,260
114: 1,340,471
182: 1,340,807
180— 9: 1,340,789
9.1: 1,340,514
17: 1,340,306
41: 1,340,587
43: 1,340,759
52: 1,340,169
53: 1,340,833
70: 1,340,834
83: 1,340,305
181— 24: 1,340,299
1,340,300
27: 1,340,531
184— 103: 1,340,687
187— 11: 1,340,458
61: 1,340,664
188— 22: 1,340,168
43: 1,340,598
119: 1,340,743
189— 2: 1,340,561
43: 1,340,243
71: 1,340,312
74: 1,340,311
192— 11: 1,340,559
193— 10: 1,340,164
19: 1,340,574
20: 1,340,253
21: 1,340,606
56: 1,340,507
194— 93: 1,340,174
196— 3: 1,340,793
14: 1,340,532
25: 1,340,427
197— 5: 1,340,469
6.5: 1,340,428
1,340,429
22: 1,340,864
135: 1,340,488
140: 1,340,542

199— 47: 1,340,613
58: 1,340,831
200— 27: 1,340,857
43: 1,340,230
52: 1,340,344
86: 1,340,552
104: 1,340,403
109: 1,340,564
142: 1,340,729
159: 1,340,139
163: 1,340,788
204— 15: 1,340,826
29: 1,340,222
1,340,269
1,340,636
1,340,637
64: 1,340,155
1,340,203
206— 1: 1,340,660
44: 1,340,744
52: R.14,860
208— 57: 1,340,386
94: 1,340,508
165: 1,340,282
210— 16: 1,340,599
73: 1,340,682
211— 2: 1,340,335
8: 1,340,748
13: 1,340,446
16: 1,340,364
1,340,565
24: 1,340,859
213— 10: 1,340,538
42: 1,340,285
67: 1,340,504
1,340,521

214— 1: 1,340,594
1,340,595
1,340,648
31: 1,340,156
43: 1,340,819
49: 1,340,683
83: 1,340,378
105: 1,340,345
137: 1,340,498
215— 14: 1,340,783
51: 1,340,237
62: 1,340,373
217— 12: 1,340,489
47: 1,340,515
66: 1,340,350
99: 1,340,810
219— 8: 1,340,270
1,340,644
10: 1,340,170
1,340,412
27: 1,340,736
32: 1,340,716
39: 1,340,668
57: 1,340,241
63: 1,340,813
71: 1,340,795
220— 4: 1,340,248
43: 1,340,413
221— 23: 1,340,242
54: 1,340,406
61: 1,340,217
72: 1,340,534
79: 1,340,726
103: 1,340,590
223— 55: 1,340,665
60: 1,340,224

224— 23: 1,340,141
1,340,142
29: 1,340,431
1,340,799
225— 2: 1,340,789
226— 72: 1,340,200
97: 1,340,185
127: 1,340,814
227— 25: 1,340,146
228— 40: 1,340,627
55: 1,340,688
229— 68: 1,340,553
76: 1,340,555
80: 1,340,554
230— 33: 1,340,210
232— 4: 1,340,377
234— 40: 1,340,578
235— 2: 1,340,827
17: 1,340,231
82: 1,340,374
92: 1,340,435
97: 1,340,493
236— 48: 1,340,513
237— 12.3: 1,340,314
50: 1,340,718
238— 134: 1,340,454
330: 1,340,478
240— 7: 1,340,686
8.5: 1,340,550
41: 1,340,163
61: 1,340,771
78: 1,340,261
92: 1,340,443
241— 6: 1,340,455
242— 61: 1,340,178
75: 1,340,710

242— 84.8: 1,340,712
109: 1,340,195
117: 1,340,297
159: 1,340,254
1,340,837
244— 2: 1,340,325
1,340,483
1,340,786
6: 1,340,309
21: 1,340,259
1,340,423
25: 1,340,214
29: 1,340,450
31: 1,340,154
1,340,626
1,340,707
246— 49: 1,340,500
378: 1,340,750
454: 1,340,562
463: 1,340,205
248— 19: 1,340,426
249— 52: 1,340,822
250— 27: 1,340,575
34: 1,340,588
36: 1,340,193
251— 5: 1,340,828
68: 1,340,591
85: 1,340,790
155: 1,340,652
252: 1,340,535
254— 8: 1,340,150
26: 1,340,401
30: 1,340,676
37: 1,340,523
89: 1,340,749

254— 166: 1,340,349
172: R.14,858
255— 33: 1,340,420
45: 1,340,468
257— 51: 1,340,267
88: 1,340,177
125: 1,340,258
129: 1,340,774
236: 1,340,153
243: 1,340,266
258— 8: 1,340,840
259— 8: 1,340,464
91: 1,340,466
1,340,491
131: 1,340,849
261— 41: 1,340,720
115: 1,340,382
262— 12: 1,340,731
263— 5: 1,340,770
33: 1,340,690
49: 1,340,675
265— 61: 1,340,280
71: 1,340,318
267— 1: 1,340,581
15: 1,340,434
64: 1,340,233
73: 1,340,184
271— 53: 1,340,722
1,340,723
274— 15: 1,340,524
1,340,525
27: 1,340,854
34: 1,340,298
1,340,436
277— 66: 1,340,228

279— 103: 1,340,845
280— 12: 1,340,733
61: 1,340,672
80: 1,340,416
1,340,417
1,340,418
81: 1,340,414
87: 1,340,740
151: 1,340,238
281— 18: 1,340,713
285— 24: 1,340,739
58: 1,340,820
146: 1,340,289
150: 1,340,785
287— 17: 1,340,273
290— 19: 1,340,249
291— 11: 1,340,728
292— 196: 1,340,462
285: 1,340,605
335: 1,340,398
293— 37: 1,340,835
55: 1,340,867
294— 66: 1,340,313
296— 21: 1,340,853
62: 1,340,761
110: 1,340,279
117: 1,340,518
118: 1,340,307
298— 23: 1,340,798
299— 38: 1,340,806
98: 1,340,376
303— 63: 1,340,861
304— 16: 1,340,191
20: 1,340,492

RANSOM PUBLIC
AUG 14 1920
LIBRARY

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A/S. Arendal Smelteverk. (See Kaaten, Einar, assignor.)

Abegg, Julius, West Hoboken, N. J. Stylographic pen. No. 1,339,011; May 4; v. 274; p. 66.

Abler, John B., Guelph, Ontario, Canada. Rubber glove. No. 1,341,451; May 25; v. 274; p. 734.

Abramson, Louis, Brooklyn, N. Y. Handbag, valise, &c. No. 1,341,099; May 25; v. 274; p. 666.

Ad-Photoscope Company. (See Burnett, John P., assignor.)

Adair, Thomas D., Jr., assignor to Standard Thermometer Company, Boston, Mass. Carbureter-adjusting device. No. 1,338,849; May 4; v. 274; p. 37.

Adams, Harry E., Belle Vernon, Pa. Soap-holding attachment for scrub-brushes. No. 1,338,665; May 4; v. 274; p. 3.

Adams & Westlake Co., The. (See Hamm, W. S., and Schuetz, assignors.)

Adams, Frederick, assignor to The Perfek'tone Corporation, Philadelphia, Pa. Talking-machine stylus-arm. No. 1,341,625; May 25; v. 274; p. 767.

Adamson, Andrew J., Winner, S. D. Automobile-heater. No. 1,340,314; May 18; v. 274; p. 445.

Adamson, Walter. (See Burstall, W. H., and Adamson.)

Ade, William F., Philadelphia, Pa. Garment-supporter. No. 1,341,406; May 25; v. 274; p. 725.

Adix, Albert W., and G. W. Haglund, Boone, Iowa. Hog-breeding crate. No. 1,340,357; May 18; v. 274; p. 453.

Adler, Herman, New York, N. Y. Feeding device for producing spiral switches. No. 1,340,099; May 11; v. 274; p. 347.

Adriau, Manuel. (See Ostenberg, Pontus, assignor.)

Adsit, Frank W., St. Paul, Minn. Photographic phonograph. No. 1,338,719; May 4; v. 274; p. 13.

Aermotor Company. (See Scholes, Daniel R., assignor.)

Africa, Elmer M., assignor to J. C. Blair Company, Huntingdon, Pa. Guide-line sheet. No. 1,340,100; May 11; v. 274; p. 347.

Ahearn, Thomas, Ottawa, Ontario, Canada. Resetting device for phonographs. No. 1,340,358; May 18; v. 274; p. 453.

Aidlotte, William F., Hiattville, Kans. Sickle-bar. No. 1,340,868; May 25; v. 274; p. 621.

Ainsworth, Howard D. (See Freitag, K. J. W., and Ainsworth.)

Air Brake Safety Appliance Co. (See Heilmann, L. F., and Baxter, assignors.)

Air Production Company. (See Kaufman, Alfonse, assignor.)

Airhart, Lewis, West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Electrical switch. No. 1,339,911; May 11; v. 274; p. 312.

Akeley, Carl E., New York, N. Y. Training control for light-projectors. No. 1,341,004; May 25; v. 274; p. 647.

Aktiebolaget Pump-Separator. (See Munters, Anders J. E., assignor.)

Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co. (See Guyer, Hans, assignor.)

Albersworth, Henry J. (See Powell, E. L., and Albersworth.)

Albertson & Company. (See Albertson, Frans O., assignor.)

Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-seat reamer. No. 1,340,359; May 18; v. 274; p. 453.

Albright, Henry F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding, polishing, and buffing machine and the like. No. 1,339,312; May 4; v. 274; p. 122.

Alden, Charles A., Steelton, Pa. Railway-switch apparatus. No. 1,341,161; May 25; v. 274; p. 677.

Alexander, Chester T., Victoria, British Columbia, Canada. Automobile air-brake. No. 1,341,531; May 25; v. 274; p. 749.

Alexander, True, assignor to Norton Iron Works, Ashland, Ky. Nail-packing machinery. No. 1,340,200; May 18; v. 274; p. 424.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Method of and means for controlling electrical energy. No. 1,340,101; May 11; v. 274; p. 348.

Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,340,592; May 18; v. 274; p. 498.

Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,340,593; May 18; v. 274; p. 498.

Alleman, Edward C., Kenosha, Wis., assignor to Simmons Company. Method of and apparatus for applying liquid coating. No. 1,340,645; May 18; v. 274; p. 508.

Allen, Charles, El Paso, Tex. Settling-basin separating device. No. 1,339,682; May 11; v. 274; p. 269.

Allen, Charles, El Paso, Tex. Upward-current separating process and device. No. 1,339,683; May 11; v. 274; p. 269.

Allen, Charles, El Paso, Tex. Slime-pulp thickener. No. 1,339,684; May 11; v. 274; p. 269.

Allen, Charles H., Pittsburgh, and J. L. Morris, Crafton, Pa. Electrically-operated releasing device for weighing-machines. No. 1,339,539; May 11; v. 274; p. 241.

Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,339,732; May 11; v. 274; p. 278.

Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,339,733; May 11; v. 274; p. 278.

Allen, Herbert, Somerset, Ohio. Disintegrating-machine. No. 1,340,201; May 18; v. 274; p. 424.

Allen, Mary F., executrix. (See Allen, William P.)

Allen, William H., Detroit, Mich. Rust-proofing compound. No. 1,341,100; May 25; v. 274; p. 666.

Allen, William P., deceased, Chicago, Ill.; M. F. Allen, executrix. Dirigible tractor. No. 1,340,514; May 18; v. 274; p. 483.

Allis-Chalmers Manufacturing Company. (See Nicht, Alexander J., Jr., assignor.)

Alphaero Engines (Foreign Patents). (See Houston, Percival T., assignor.)

Alter, John H., Conneaut, Ohio. Power-operated reversing-gear. No. 1,339,939; May 11; v. 274; p. 317.

Aluminum Castings Company, The. (See Diamond, James E., assignor.)

Aluminum Solder Co., The (See de St. Laurent, Eugene E. P. J. P. S. J., assignor.)

Alva Carpet & Rug Company. (See Fromuth, August G., assignor.)

Ambler, Sam, Bradford, England. Doffing mechanism for spinning-frames. No. 1,339,803; May 11; v. 274; p. 291.

Ambursen, Nils F., Pittsburgh, Pa., assignor to Uni-Form Company. Mold-panel. No. 1,339,912; May 11; v. 274; p. 312.

American Arch Company. (See Anthony, J. T., and Bean, assignors.)

American Balsa Company. (See Welin, Axel, assignor.)

American Bosch Magneto Corporation. (See Rosenthal, Leon W., assignor.)

American Bosch Magneto Corporation. (See Schwarzmann, W. E., and Normal, assignors.)

American Bosch Magneto Corporation. (See Tost, Max.)

American Brake Company. (See Burton, Thomas L., assignor.)

American Can Company. (See Eberhart, Felix, assignor.)

American Can Company. (See Harbeck, Jervis R., assignor.)

American Can Company. (See Nowack, Charles H., assignor.)

American Can Company. (See Widell, Magnus E., assignor.)

American Chain Company. (See Pye, Robert E., assignor.)

American Chain Company. (See Reyburn, John R., assignor.)

American Clay Machinery Company, The. (See Brown, Davis, assignor.)

American Cotton Oil Company, The. (See Boyce, James, assignor.)

American Drying Processes. (See Lissauer, A. W. Fleisher, and Keyes, assignors.)

American Flange Frog and Railway Improvement Company, The. (See Einstein, Robert E., assignor.)

American Hardware Corporation, The. (See Wright, Harry A., assignor.)

American La France Fire Engine Co. (See Knoblock, James W., assignor.)

American Mailing Device Corporation of New York. (See Wuesthoff, Frederick J., assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Optical Company. (See Day, George H., assignor.)
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Laabs, Max A., assignor.)
American Steel Foundries. (See Peycke, Armand H., assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Paper Goods Company, The. (See Cooley, Henry B., assignor.)
American Platinum Works. (See Koch, Theodor, assignor.)
American Steel and Wire Company of New Jersey, The. (See Carstarphen, Frederick C., assignor.)
American Stove Company. (See Meacham, Benjamin E., assignor.)
American Telephone and Telegraph Company. (See Smith, Temple C., assignor.)
American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
American Thermophone Company. (See van Doorn, Anthonius M., assignor.)
American Tool Works Company, The. (See Sosa, Augustus M., assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
Ames, Adelbert, Jr., Tewkesbury, Mass. Light-signaling. No. 1,339,085; May 4; v. 274; p. 81.
Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Knitting-machine. No. 1,340,695; May 18; v. 274; p. 518.
Ammons, William H., Jackson Springs, N. C. Water-motor. No. 1,339,012; May 4; v. 274; p. 67.
Amory, William N., New York, N. Y. Shock absorber for vehicles. No. 1,341,407; May 25; v. 274; p. 725.
Amott, William. (See Meyer, Theodore, assignor.)
Amsler, Walter O., Edgewood, Pa. Muffle-furnace. No. 1,341,031; May 25; v. 274; p. 652.
Anderson, August P., Chicago, Ill. Refrigerating apparatus. No. 1,340,646; May 18; v. 274; p. 508.
Anderson, Carl E., assignor to The Bryant Electric Company, Bridgeport, Conn. Spring-operated mechanism. No. 1,340,000; May 11; v. 274; p. 329.
Anderson, Edmund B. (See Faust, L., and Anderson.)
Anderson, Edward L., assignor to R & G Company, Attleboro, Mass. Manufacture of buttons. No. 1,340,515; May 18; v. 274; p. 483.
Anderson, Homer, Peekskill, N. Y. Nut-shaving machine. No.1,339,086; May 4; v. 274; p. 82.
Anderson, James L. (See Cave, H., and Anderson.)
Anderson, John A., Lockport, Ill. Combined bushing and valve. No. 1,340,810; May 18; v. 274; p. 538.
Andren, Fritz L., Chicago, Ill. Wire-coiling machine. No. 1,340,516; May 18; v. 274; p. 483.
Andresen, Herman P., Chicago, Ill. Combination heater and maintenance-wagon. No. 1,340,131; May 11; v. 274; p. 354.
Andrews, Searle E., Pittsburgh, Pa. Compass. No. 1,338,666; May 4; v. 274; p. 3.
Andrus, George S., Akron, Ohio. Vulcanizer. No. 1,339,151; May 4; v. 274; p. 93.
Aner, Martin A., Liverpool, England. Aerial railway. No. 1,338,663; May 4; v. 274; p. 3.
Angel, Andrea, deceased; M. L. Angel, executrix, Oxford, England. Dyestuff and making same. No. 1,340,696; May 18; v. 274; p. 518.
Angel, Mary L., executrix. (See Angel, Andrea.)
Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Shoe-machine. No. 1,339,591; May 11; v. 274; p. 251.
Anstice, Josiah, assignor to Josiah Anstice & Co., Inc., Rochester, N. Y. Combined bread cutter and stacker. No. 1,341,452; May 25; v. 274; p. 734.
Anstice, Josiah & Co., Inc. (See Anstice, Josiah, assignor.)
Anthony, James T., East Orange, N. J., and G. M. Bean, Los Angeles, Calif., assignors to American Arch Company, New York, N. Y. Oil-burning locomotive. No. 1,340,202; May 18; v. 274; p. 424.
Anthony, Stanley, Boston, Mass. Push-button. No. 1,340,139; May 18; v. 274; p. 413.
Anthony, Stanley, Boston, Mass. Card-index. No. 1,340,140; May 18; v. 274; p. 413.
Anthony, William J. (See Orr Elmore W., assignor.)
Apgar, Andrew B., Mapleton Depot, Pa. Wrench. No. 1,341,532; May 25; v. 274; p. 749.
Appleby, William H., Windsor, Ontario, Canada. Steering-wheels. No. 1,341,032; May 25; v. 274; p. 652.
Arapis, Michael S., Springfield, Mass. Snow cleaning and melting machine. No. 1,341,005; May 25; v. 274; p. 647.
Arata, Antonio J., assignor to Charles J. Ross Company, Philadelphia, Pa. Photo-engraver's screen. No. 1,341,610; May 25; v. 274; p. 764.
Arbetter Felling Machine Company. (See Hayes, Thomas J., assignor.)
Armistead-Ashley Engineering Corporation. (See Armistead, Hubert M., assignor.)
Armistead, Hubert M., San Francisco, Calif., assignor to Armistead-Ashley Engineering Corporation, Reno, Nev. Transmission. No. 1,341,162; May 25; v. 274; p. 678.
Armstrong, Celia J. (See Jennings, W., and Armstrong.)
Armstrong Cork Company. (See Blakeney, John W., assignor.)
Armstrong Harry Y., Springfield, Mass. Wrapping-machine. No. 1,340,408; May 25; v. 274; p. 725.
Armstrong, Percy A. E., Loudonville, N. Y. Preventing cores for tubular bodies from welding. No. 1,341,204; May 25; v. 274; p. 686.
Arndt, Richard L. (See Porter, J. W., and Arndt.)
Arnesen, Bernhardt M., *et al.* (See Maltz, Mayer, assignor.)
Arno, Oliver H., assignor to G. O. G. Coale, trustee, Boston, Mass. Tracking device. No. 1,340,360; May 18; v. 274; p. 454.
Arnold, James G., Toronto, Ontario, Canada. Illuminated sign. No. 1,341,251; May 25; v. 274; p. 694.
Arnold, Howard P., Rockland, Mass. Manufacturing cutting-tools. No. 1,339,152; May 4; v. 274; p. 93.
Art Metal Construction Company. (See Fosberg, Henry C., assignor.)
Artkop, Jan, Detroit, Mich. Bread-molding machine. No. 1,339,087; May 4; v. 274; p. 82.
Aschenbach, Ernest, Washington, D. C. Die or implement used in the manufacture of spark-plugs. No. 1,341,453; May 25; v. 274; p. 734.
Ashley, Freeland B., Kansas City, Mo. Poultry-feeder. No. 1,340,869; May 25; v. 274; p. 621.
Ashley, William C., Chicago, Ill. Dish-washing machine. No. 1,340,517; May 18; v. 274; p. 483.
Ashton, E. C. (See Springer, Elijah H., assignor.)
Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Mfg. Co. Potato-digger. No. 1,341,454; May 25; v. 274; p. 735.
Aspinwall Mfg. Co. (See Aspinwall, Lewis A., assignor.)
Associated Manufacturers Company. (See Kimball, Earl H., assignor.)
Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Hot-metal car. No. 1,341,291; May 25; v. 274; p. 702.
Atkins, Thomas B., Canutillo, Tex. Silo-door. No. 1,341,533; May 25; v. 274; p. 749.
Atlantic Service Company. (See Schaefer, Adolph O., assignor.)
Augustus, Albert A., Cleveland, Ohio. Vehicle-top. No. 1,340,518; May 18; v. 274; p. 484.
Austin, Herbert, Bromsgrove, England. Road-wheel of the sheet-metal type. No. 1,340,697; May 18; v. 274; p. 518.
Auto-Ordnance Corporation. (See Eickhoff, T. H., and Payne, assignors.)
Auto-Ordnance Corporation. (See Graham, Oliver B., assignor.)
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Auto Pneumatic Action Company. (See Hulder, Joseph P., assignor.)
Automatic Bookkeeping Register Company. (See Hayes, B. P., and Laughlin, assignors.)
Automatic Electric Company. (See Martin, Talbot G., assignor.) (Reissue.)
Automatic Storage Platform Company. (See Young, George H., assignor.)
Aviss, Alfred, Rugby, England. Cardboard and like boxes which are made collapsible. No. 1,338,664; May 4; v. 274; p. 3.
Avram, Mois H., New York, N. Y., assignor to Slocum Laboratories, Inc., Newark, N. J. Efficiency-recorder. No. 1,339,381; May 11; v. 274; p. 211.
Axberg, Alfred C., Springvale, Me. Receptacle-support. No. 1,339,491; May 11; v. 274; p. 232.
Ayres, George W., Pungoteague, Va. Vine-lifter. No. 1,339,840; May 11; v. 274; p. 299.
Ayres, Seymour A., East Lansing, Mich. Adjustable journal-box. No. 1,340,102; May 11; v. 274; p. 348.
Babcock, Clifford D., assignor of one-half to J. Neilson, New York, N. Y. Ionized-chamber device. No. 1,341,006; May 25; v. 274; p. 648.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Company, New York, N. Y. Compression, storage, &c., of ethylene. No. 1,339,431; May 11; v. 274; p. 220.
Badeau, Harry L., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch-handle. No. 1,341,611; May 25; v. 274; p. 764.
Badenhausen, John P., Philadelphia, Pa. Riveting-machine and riveting. No. 1,340,361; May 18; v. 274; p. 454.
Badger, Arthur C., Newton, assignor to E. B. Badger & Sons Company, Boston, Mass. Holder for wood being distilled. No. 1,338,667; May 4; v. 274; p. 3.
Badger, E. B., & Sons Company. (See Badger, Arthur C., assignor.)
Bahan, William H., Jr., Union, S. C. Stop mechanism for looms. No. 1,339,841; May 11; v. 274; p. 299.
Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Core for tire-casings. No. 1,339,875; May 11; v. 274; p. 305.
Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Resilient core for tire-casings. No. 1,339,876; May 11; v. 274; p. 305.

Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Electric furnace. No. 1,340,203; May 18; v. 274; p. 424.
Baird, Philander C., Oklahoma, Okla. Bed-supporting means for vehicles. No. 1,340,204; May 18; v. 274; p. 424.
Baitary, Shain E., Baltimore, Md. Pressing-machine. No. 1,340,519; May 18; v. 274; p. 484.
Baker & Company. (See Van Allen, George L., assignor.)
Baker, Cloice B., assignor of one-half to W. Bawden, St. Louis, Mo. Support for running-boards for vehicles. No. 1,339,379; May 4; v. 274; p. 135.
Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles of the lighter class. No. 1,339,913; May 11; v. 274; p. 312.
Baker, Eugene L., Taunton, Mass. Molding device. No. 1,339,642; May 11; v. 274; p. 261.
Baker, Frank. (See Nathan, F. L., Rintoul, and Baker.)
Baker, Henry, administrator. (See Nathan F. L., Rintoul, and Baker.)
Baker, Weller H. (See Reid, Edward M., assignor.)
Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
Baiboni, Anacleto, Neponset, Mass. Tool-box. No. 1,340,870; May 25; v. 274; p. 621.
Baldwin, Francis J., Canton, Ohio. Arbor. No. 1,339,877; May 11; v. 274; p. 306.
Balkwill, Stephen, Cleveland, Ohio. Railway-crossing. No. 1,340,205; May 18; v. 274; p. 425.
Ball, Arlington L., Dunkirk, N. Y., assignor, by mesne assignments, to Germer Stove Company, Erie, Pa. Liquid-feed device. No. 1,339,734; May 11; v. 274; p. 279.
Ball Brothers Glass Manufacturing Company. (See Bingham, Alvah L., assignor.)
Ball, John R. (See Rogers, Homer S., assignor.)
Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Spark-coil-testing apparatus. No. 1,339,804; May 11; v. 274; p. 292.
Ballman, Edwin C., assignor of one-half to S. A. Whitten, St. Louis, Mo. Lathe-stopping mechanism. No. 1,340,811; May 18; v. 274; p. 539.
Ballou, B. A., & Co. (See Ballou, Frederick A., Jr., assignor.)
Ballou, Frederick A., Jr., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Spring-ring. No. 1,340,206; May 18; v. 274; p. 425.
Balsam, Maurice M., New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,338,668; May 4; v. 274; p. 4.
Baltimore Process Company. (See Straus, Alexander L., assignor.)
Baltzley, Owen F. (See Grimes E. O., Jr., and Baltzley.)
Bank, William, Chicago, Ill. Saw-filing machine. No. 1,339,153; May 4; v. 274; p. 93.
Barbarou, Marius J. B., Neuilly-sur-Seine, France. Cylinder for internal-combustion engines. No. 1,340,647; May 18; v. 274; p. 509.
Barber Asphalt Paving Company, The. (See Ollensis, G. L., and Miller, assignors.)
Barber-Colman Company. (See Hathaway, E. F., and Lea, assignors.)
Barber, Herman, Elwood, Ind. Spraying apparatus. No. 1,339,382; May 11; v. 274; p. 211.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Draw-bar buffer. No. 1,341,455; May 25; v. 274; p. 735.
Barbour Flax Spinning Company. (See Tracy, Homer D., assignor.)
Barbour, John P. (See Pelton, C. W., and Barbour.)
Barchard, Emma C., Chicago, Ill. Oiler for air-compressors. No. 1,339,540. May 11; v. 274; p. 241.
Barker, Francis H., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Explosive shell. No. 1,340,871; May 25; v. 274; p. 621.
Barnaby, Charles W., New York, N. Y. Manufacture of multiple bearings. No. 1,341,205; May 25; v. 274; p. 686.
Barnes, Avery, Danville, Ill. Valve-timing gear for explosive-engines. No. 1,340,362; May 18; v. 274; p. 454.
Barnes, Benie A., assignor of one-half to C. W. Early, Arkansas City, Kans. Composition for cleaning and polishing. No. 1,340,747; May 18; v. 274; p. 527.
Barnes, Frank. (See Hutchinson, J. T., Shaw, and Barnes.)
Barnes, Frederick W., assignor to Eastman Kodak Company, Rochester, N. Y. Developing-rack. No. 1,339,088; May 4; v. 274; p. 82.
Barnes, John S., Detroit, Mich. Wire fabric. No. 1,339,541; May 11; v. 274; p. 242.
Barnum, Paul, San Francisco, Calif. Tire-carrier. No. 1,340,431; May 18; v. 274; p. 468.
Baron, Charles S., Tiffin, Ohio. Liquid-container. No. 1,340,872; May 25; v. 274; p. 621.
Barr and Stroud. (See Barr, A., and Stroud, assignors.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Apparatus for the conversion of motion of one type into motion of another type. No. 1,339,643; May 11; v. 274; p. 261.
Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Bomb-dropping device. No. 1,339,432; May 11; v. 274; p. 220.
Barrell Holding and Manufacturing Company. (See Ratzburg, Victor P., assignor.
Barrell, William L., Lawrence, Mass. Thread-parting mechanism for looms. No. 1,340,207; May 18; v. 274; p. 425.
Barrett Company, The. (See Weiss, John M., assignor.)
Barrett, Herbert L., Opportunity, Wash. Feeding mechanism. No. 1,339,051; May 4; v. 274; p. 75.
Barrett, Thomas A., Englewood, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Starting means for electric apparatus. No. 1,339,914; May 11; v. 274; p. 313.
Bartlett, Madeline A., Boston, Mass. Game. No. 1,340,001; May 11; v. 274; p. 329.
Bascom, Eric W., Aistead, N. H. Stable-cleaning means. No. 1,339,089; May 4; v. 274; p. 82.
Bassick Company, The. (See Johnson, John A., assignor.)
Bassler, Edwin M., Milwaukee, Wis. Electrical welding-machine. No. 1,338,762; May 4; v. 274; p. 21.
Batchelder, Frank R., Worcester, Mass. Pocketed carrier. No. 1,340,141; May 18; v. 274; p. 413.
Batchelder, Frank R., Worcester, Mass. Pocketed carrier. No. 1,340,142; May 18; v. 274; p. 413.
Bateman, William M., Chester, Pa. Anchor shanks and shackles. No. 1,340,002; May 11; v. 274; p. 329.
Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,340,143; May 18; v. 274; p. 413.
Batliner, Carl, assignor to W. S. Dickey, Kansas City, Mo. Automatic and intermittent brander for socket sewer-pipe. No. 1,340,929; May 25; v. 274; p. 632.
Bauer, Carl E., Hammond, Ind. Draw-bar yoke. No. 1,339,940; May 11; v. 274; p. 318.
Bauer, Franz, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Stop device. No. 1,339,052; May 4; v. 274; p. 75.
Bauert, William H., Roseville, New South Wales, Australia. Hat-ventilation means. No. 1,339,154; May 4; v. 274; p. 94.
Baukus, Frank J., Saginaw, Mich. Roller fly-screen. No. 1,340,103; May 11; v. 274; p. 348.
Baum, Erich, Nuremberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleansing compound and making same. No. 1,340,315; May 18; v. 274; p. 445.
Baumgartner, Arthur, assignor to Ira Co. Fabrique Suisse d'Articles en bois, Schweizerische Holzwarenfabrik, Swiss Wood Works, Soleure, Switzerland. Blotting-pad. No. 1,338,669; May 4; v. 274; p. 4.
Baumgartner, Henry H., Newark, N. J. Coin-collector. No. 1,341,534; May 25; v. 274; p. 750.
Baush Machine Tool Company. (See Calkins, Charles H., assignor.)
Bausman, Alonzo L., Chicopee, and G. S. Perkins, assignors to National Equipment Company, Springfield, Mass. Milling-machine. No. 1,341,252; May 25; v. 274; p. 695.
Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Confectionery-coating machine. No. 1,341,253; May 25; v. 274; p. 695.
Bawden, William. (See Baker, Cloice B., assignor.)
Baxter, William W. (See Heilmann, L. F., and Baxter.)
Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Handling apparatus. No. 1,340,648; May 18; v. 274; p. 509.
Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
Bean, Louis A., Denver, Colo. Direction-indicator. No. 1,340,363; May 18; v. 274; p. 454.
Bean, Guy M. (See Anthony, J. T., and Bean.)
Bear, John F., assignor to The Ohio Suspender Company, Mansfield, Ohio. Suspender-link. No. 1,338,850; May 4; v. 274; p. 37.
Bear, John F., assignor to The Ohio Suspender Company, Mansfield, Ohio. Suspender-link. No. 1,341,033; May 25; v. 274; p. 653.
Beard, James R. (See Hunter, P. V., and Beard.)
Bearden, Fred E., Chesnee, S. C. Heddle-harness-spacer machine. No. 1,339,313; May 4; v. 274; p. 122.
Beardsley, Charles S., assignor to The United Electric Company, Canton, Ohio. Adjustable caster. No. 1,339,805; May 11; v. 274; p. 292.
Beaton, A. J., Manufacturing Company, The. (See Beaton, Allan J., assignor.)
Beaton, Allan J., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn. Air-valve device. No. 1,341,101; May 25; v. 274; p. 666.
Beattie Manufacturing Co., The. (See Beattie, Walter J., assignor.)
Beattie, Walter J., assignor to The Beattie Manufacturing Co., Cohoes, N. Y. Folding-machine. No. 1,341,409; May 25; v. 274; p. 725.
Beaty, William S., Milton, Ontario, Canada. Swing-pole track-hinge for litter-carriers. No. 1,340,208; May 18; v. 274; p. 425.
Beaulieu, Eugene A., Graceville, Minn. Folding emergency-tire. No. 1,338,807; May 4; v. 274; p. 29.
Beck, Charles E., Baltimore, Md. Loose-leaf binder. No. 1,341,456; May 25; v. 274; p. 735.
Beck, Edward H. (See Tod, G. H., and Beck.)
Beck, William E., Birmingham, England. Stand for watches. No. 1,340,859; May 18; v. 274; p. 548.
Becker, Albert, Oldham, S. D. Bracket. No. 1,341,535; May 25; v. 274; p. 738.

Becker, Ferdinand A., San Francisco, Calif. Mute for cornets or the like. No. 1,341,351; May 25; v. 274; p. 714.

Becker, Johannes P., Berkeley, Calif. Direction-indicator. No. 1,341,352; May 25; v. 274; p. 714.

Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Copying and enlarging camera. No. 1,339,090; May 4; v. 274; p. 82.

Beckwith, Edward P., Garrison, N. Y. Stationery appliance. No. 1,339,155; May 4; v. 274; p. 94.

Beeby, Alfred R. (See Milner, H. L., and Beeby.)

Beede, Herbert G., Pawtucket, R. I. Milling-machine. No. 1,341,034; May 25; v. 274; p. 653.

Beese, Frank F., Chicago, Ill. Water-gage safety-valve. No. 1,339,383; May 11; v. 274; p. 211.

Behrens, Henry W., Chicago, Ill. Price-tag holder. No. 1,341,491; May 25; v. 274; p. 742.

Beidler, George C., Rochester, N. Y. Photographic-printing apparatus. No. 1,340,209; May 18; v. 274; p. 425.

Békeh, Vendel L., Cleveland, Ohio. Air-propeller. No. 1,340,210; May 18; v. 274; p. 426.

Belcher & Taylor Agricultural Tool Company, The. (See Butterfield, Lewis A., assignor.)

Beldam, William R., London, England. Means for packing joints. No. 1,339,156; May 4; v. 274; p. 94.

Belden, Edward H., assignor to Packard Motor Car Company, Detroit, Mich. Door-latching means. No. 1,339,492; May 11; v. 274; p. 232.

Belknap, Charles H., Brooklyn, N. Y. Toy hand-wagon. No. 1,341,102; May 25; v. 274; p. 666.

Bell, Daniel J., Salamanca, N. Y. Expelling-pin. No. 1,339,157; May 4; v. 274; p. 94.

Bell, Harry, and E. H. Lenz, Evansville, Ind. Touch-regulator for piano-keys. No. 1,341,035; May 25; v. 274; p. 653.

Bellairs, John W., Mishawaka, Ind. Rocking-horse. No. 1,339,493; May 11; v. 274; p. 232.

Bellwood, Robert A. (See Downs, C., Bellwood, and Turnill.)

Belvin, Preston, Richmond, Va. Canning-boiler. No. 1,341,353; May 25; v. 274; p. 715.

Benefiel, Claude, Bremerton, Wash., assignor of one-half to W. A. Clench, Seattle, Wash. Chain saw. No. 1,339,091; May 4; v. 274; p. 83.

Benjamin, Clarence F., Milford, Conn. Machine for dropping bullets, &c. No. 1,340,432; May 18; v. 274; p. 468.

Benjamin, George H., New York, N. Y. Method of and apparatus for drying fruits, vegetables, and other substances. No. 1,339,092; May 4; v. 274; p. 83.

Benjamin, Philip, New York, and S. Burger, Brooklyn, N. Y. Watch. No. 1,340,003; May 11; v. 274; p. 329.

Bennett, Clark H., Chicago, Ill. Manufacturing varnish. No. 1,341,103; May 25; v. 274; p. 666.

Bennett, Geoffrey T. (See Campbell, G. R. C., and Bennett.)

Bennett, George L., Hastings-on-Hudson, N. Y. Ice-vending machine. No. 1,339,053; May 4; v. 274; p. 75.

Bennett, James, Cleveland, Ohio. Boiler-tube and combustion-chamber cleaner. No. 1,340,144; May 18; v. 274; p. 414.

Bennett, Leland V., Westerville, Ohio. Game-board. No. 1,339,013; May 4; v. 274; p. 67.

Bennett, Reuel W., Indianapolis, Ind., and E. M. Jones, Adrian, Mich.; said Jones assignor to said Bennett. Apparatus for conducting experiments. No. 1,338,967; May 4; v. 274; p. 58.

Bentley, Robert J., Monroe, Mich. Phonograph-record-filing device. No. 1,340,364; May 18; p. 274; p. 455.

Berg, Albert, Hönefos, Norway. Angle-measuring instrument. No. 1,341,036; May 25; v. 274; p. 653.

Berg, Alexander, St. Louis, Mo. Hide-stretcher. No. 1,339,093; May 4; v. 274; p. 83.

Berg, William J., Maximo, and A. B. Kidder, Canton, Ohio; said Kidder assignor to said Berg. Rim-tool. No. 1,341,104; May 25; v. 274; p. 666.

Bergman Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,339,735; May 11; v. 274; p. 279.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,004; May 11; v. 274; p. 329.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,340,005; May 11; v. 274; p. 330.

Bergmann, Conrad, Philadelphia, Pa. Cabinet. No. 1,339,842; May 11; v. 274; p. 299.

Berman, Louis C. (See Santino, Salvatore, assignor.)

Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,812; May 18; v. 274; p. 539.

Bernard, Pierre J. H., Montreal, Quebec, Canada. Manufacturing insulators. No. 1,340,813; May 18; v. 274; p. 539.

Bernau, Friedrich. (See Bernau, Gottfrid J., assignor.)

Bernau, Gottfrid J., New York, N. Y., assignor of one-half to F. Bernau, Cöln-Kalk, Germany. Doll. No. 1,340,848; May 18; v. 274; p. 546.

Bernier, Joseph J., Chartley, Mass. Separable cuff-button. No. 1,339,314; May 4; v. 274; p. 122.

Berry, George W., Wolfeboro, N. H. Excelsior-cutting machine. No. 1,341,037; May 25; v. 274; p. 653.

Berry, Ora, Princeton, Ind. Snowplow. No. 1,340,263; May 18; v. 274; p. 435.

Berry, Robert C., Indianapolis, Ind. Carbon-removing means for internal-combustion engines. No. 1,339,014; May 4; v. 274; p. 67.

Berry, William H., Chester, Pa. Feed-water regulator. No. 1,340,365; May 18; v. 274; p. 455.

Berthelot, Charles, Paris, France. Oven with regenerators. No. 1,340,104; May 11; v. 274; p. 348.

Best Electric Company. (See Kennedy, John J., assignor.)

Beste, Herman C., Baltimore, Md. Means for applying crown-seals. No. 1,341,163; May 25; v. 274; p. 678.

Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Sprocket-chain. No. 1,338,808; May 4; v. 274; p. 30.

Bethlehem Steel Company. (See Fulda, Edward, assignor.)

Bethlehem Steel Company. (See Lachman, Laurence S., assignor.)

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Bettcher Stamping and Manufacturing Company. (See Bump, Edward D., assignor.)

Bettger, Christian, Bremen, N. D. Clevis. No. 1,340,105; May 11; v. 274; p. 348.

Beutler, Oswald H., South Bend, Ind. Antiskid-chain repair-link. No. 1,338,851; May 4; v. 274; p. 37.

Bevan, William W., Melrose, and C. E. Clarke, Winthrop, Mass. Automatic paper-cup-forming machine. No. 1,339,315; May 4; v. 274; p. 122.

Beynon, John H., Ontario, Calif. Atomizer. No. 1,340,433; May 18; v. 274; p. 468.

Bickel, James T., Mountain View, Mo. Lock and latch. No. 1,341,038; May 25; v. 274; p. 654.

Bierbaum, Christopher H., Buffalo, N. Y. Making lubricants. No. 1,340,316; May 18; v. 274; p. 445.

Bigelow, George W., New Haven, Conn. Damper-regulator. No. 1,340,106; May 11; v. 274; p. 349.

Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator for plates and the like. No. 1,340,594; May 18; v. 274; p. 499.

Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator for shear-tables. No. 1,340,595; May 18; v. 274; p. 499.

Bilan, John, Flint, Mich. Stove. No. 1,340,367; May 18; v. 274; p. 455.

Bingham, Alvah L., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,340,366; May 18; v. 274; p. 455.

Bird Machine Company. (See Clarke, Ralph S., assignor.)

Birkenbeuel, Edward B., Portland, Oreg. Jar-seal tester. No. 1,340,473; May 18; v. 274; p. 475.

Birkenmaier, Theodore, St. Louis, Mo. Water-controlling mechanism for ice-cans. No. 1,340,814; May 18; v. 274; p. 539.

Birth, Charles, Kingston borough, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,339,542; May 11; v. 274; p. 242.

Bishop, Ernest T. (See Bolton, W., and Bishop.)

Bishop, Harry, Lyons, N. Y. Spring-gripping device. No. 1,339,843; May 11; v. 274; p. 299.

Bishop, Merle E., Heyworth, Ill. Handle for various articles. No. 1,338,968; May 4; v. 274; p. 58.

Bishopric, George F., Wyoming, Ohio. Wall-covering. No. 1,339,915; May 11; v. 274; p. 313.

Björnstad, Jörgen, Reading, England. Apparatus for producing sound. No. 1,339,158; May 4; v. 274; p. 94.

Blache, François M. P., La Ricamarie, France. Cock. No. 1,340,107; May 11; v. 274; p. 349.

Black, Douglas F., Tofield, Alberta, Canada. Collapsible poultry-crate. No. 1,340,815; May 18; v. 274; p. 539.

Black, Lee J., Beaumont, Tex. Rotary drilling-machine. No. 1,341,410; May 25; v. 274; p. 726.

Blackburne, Albert. (See Hutchinson, Warren B., assignor.)

Blackledge, John T., assignor of two-fifths to C. Hartshorn, Elvins, Mo. Automatic mine-car coupling. No. 1,339,016; May 4; v. 274; p. 67.

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press-tripping mechanism. No. 1,339,316; May 4; v. 274; p. 122.

Blair, Albert, *et al.* (See Ehrlich, Leo, assignor.)

Blair, David E., and D. K. Macleod, Montreal, Quebec, Canada. Signal. No. 1,339,685; May 11, v. 274; p. 270.

Blair, Frank P., Toledo, C. L. Dows and G. S. Merrill, Cleveland, Ohio; said Dows assignor to said Blair and Merrill. Indicating device. No. 1,340,145; May 18; v. 274; p. 414.

Blair, J. C., Company. (See Africa, Elmer M., assignor.)

Blair, Peter W., Quincy, assignor to The Haydenville Company, Haydenville, Mass. Drinking-fountain. No. 1,339,159; May 4; v. 274; p. 94.

Blake, Albert C., Buffalo, N. Y. Nut-lock. No. 1,339,015; May 4; v. 274; p. 67.

Blake, Charles C., Brookline, Mass. Edge-trimming machine. No. 1,339,878; May 11; v. 274; p. 306.

Blake, Charles C., Brookline, Mass. Insole-rounding machine. No. 1,340,520; May 18; v. 274; p. 484.

Blake, George A., Storrs, Conn. Portable fire-escape. No. 1,340,146. May 18; v. 274; p. 414.

Blakeney, John W., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole and making same. No. 1,339,160; May 4; v. 274; p. 95.

Blanton, Robert W., Ironton, Ohio. Roofing. No. 1,341,254; May 25; v. 274; p. 695.

Blasco, Walter, Erie, Pa. Portable stand. No. 1,340,108; May 11; v. 274; p. 349.

Bliss, Charles A., Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,341,164; May 25; v. 274; p. 678.

Block Gas Mantle Co., The. (See Risinger, Frank V., assignor.)

Blood, Robert A. (See Warme, I. F., and Blood.)

Blume, Robert A., and P. F. C. Wilcke, Seattle, Wash.; said Wilcke assignor of one-sixth to said Blume. Engine. No. 1,341,255; May 25; v. 274; p. 695.

Blunt, James G., Schenectady, N. Y. Universal joint. No. 1,340,368; May 18; v. 274; p. 455.

Blunt, James G., Schenectady, N. Y. Grease-cup plug. No. 1,341,411; May 25; v. 274; p. 726.

Blydenburgh, Daniel, South Attleboro, Mass. Carriage-threading device. No. 1,338,809; May 4; v. 274; p. 30.

Blyth, James. (See Nettle, W. E., Selby, Blyth, and Rohman.)

Bock, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,338,763; May 4; v. 274; p. 22.

Bodin, Emil P., New York, N. Y. Toy. No. 1,340,109; May 11; v. 274; p. 349.

Boe, Hans M., Minneapolis, Minn. Grease-gun. No. 1,339,916; May 11; v. 274; p. 313.

Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone. No. 1,341,105; May 25; v. 274; p. 667.

Bolg, James H. C., Oklahoma, Okla. Cotton-picker. No. 1,341,039; May 25; v. 274; p. 654.

Bolduc, William H., Chester, assignor to Diamond State Fibre Company, Bridgeport, Pa. Cover for rollers and applying same. No. 1,341,612; May 25; v. 274; p. 764.

Bolger, Robert S., New York, assignor of one-half to C. P. Whistler, Brooklyn, N. Y. Manufacturing paper barrels. No. 1,340,110; May 11; v. 274; p. 350.

Bolton, Wilford, Accrington, and E. T. Bishop, Reading, England. Means for measuring the pitch of screws and the like. No. 1,338,670; May 4; v. 274; p. 4.

Bonall, Frank, Clifton, N. J., assignor to C. De Felice, New York, N. Y. Anti-aircraft guns. No. 1,340,111; May 11; v. 274; p. 350.

Bond, Ignatius, Evanston, Ill. Controlling mechanism for electric motors for ironing-machines. No. 1,339,917; May 11; v. 274; p. 313.

Bono, Michelangelo, New York, N. Y. Delivering apparatus. No. 1,340,748; May 18; v. 274; p. 527.

Booth, James A., Whitbay, W. Va. Emergency-switch. No. 1,341,354; May 25; v. 274; p. 715.

Booth, John, Indianapolis, Ind. Clothes and hat stand. No. 1,341,106; May 25; v. 274; p. 667.

Booth, William C., Chicago, Ill. Shower-bath apparatus. No. 1,339,593; May 11; v. 274; p. 252.

Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,341,007; May 25; v. 274; p. 648.

Borcherdt, Raymond, Naturita, Colo., assignor of one-half to C. C. Couch, Burns, Oreg. Blower attachment for drills. No. 1,341,536; May 25; v. 274; p. 750.

Borden Book Stack Company, The. (See Borden, William A., assignor.)

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borden, William A., assignor to The Borden Book Stack Company, Westport, Conn. Book-shelf. No. 1,340,317; May 18; v. 274; p. 445.

Borger, Henry E. (See Libby, A. D. T., and Borger.)

Borofsky, Allen, Roxbury, Mass. Automatic locking device for steering-gear mechanisms. No. 1,341,256; May 25; v. 274; p. 695.

Borresen, Helge A., Marquette, Mich., assignor of one-half to E. R. Hills, Chicago, Ill. Watch-barrel. No. 1,339,941; May 11; v. 274; p. 318.

Boss, Leigh C. (See Perl, E. G., and Boss.)

Bossu, Pierre, Paris, France. Electric machine. No. 1,341,492; May 25; v. 274; p. 742.

Boston Floating Hospital, The. (See Bosworth, Alfred W., assignor.)

Boswell, Fletcher O., Philadelphia, Pa. Vehicle suspension and shock-absorber. No. 1,340,434; May 18; v. 274; p. 468.

Bosworth, Alfred W., Milton, assignor to The Boston Floating Hospital, Boston, Mass. Reconstructed milk and making same. No. 1,341,040; May 25; v. 274; p. 654.

Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,339,592; May 11; v. 274; p. 251.

Botscheider, George P., San Francisco, Calif. Automatic locking device for pneumatic-tube systems. No. 1,339,594; May 11; v. 274; p. 252.

Botts, Raymond A., Hanford, Calif. Harvester for Egyptian corn, Milo maize, and the like. No. 1,340,816; May 18; v. 274; p. 540.

Boughen, Malachi F., assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel lathe. No. 1,339,017; May 4; v. 274; p. 68.

Boughton, Charles H. E., Chicago, Ill. Mount for photographs and the like. No. 1,340,369; May 18; v. 274; p. 456.

Boughton, George B., St. Louis, Mo. Disappearing garage-door. No. 1,341,041; May 25; v. 274; p. 654.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Pump. No. 1,340,596; May 18; v. 274; p. 499.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Pump. No. 1,340,597; May 18; v. 274; p. 499.

Boulais, Wilfrid, Ipswich, Mass. Tractor. No. 1,340,112; May 11; v. 274; p. 350.

Bouma, Louis C., Lynnville, Iowa. Sanitary nest-egg. No. 1,339,543; May 11; v. 274; p. 242.

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Drilling device. No. 1,341,292; May 25; v. 274; p. 702.

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric welding device. No. 1,341,293; May 25; v. 274; p. 703.

Bovee, Chaney W., Stevensville, N. Y. Collapsible barrel. No. 1,341,493; May 25; v. 274; p. 742.

Bowman, Ford C., Wyoming, Ohio, assignor to the Philip Carey Manufacturing Company, Lockland, Ohio. Preformed expansion-joint strip. No. 1,339,094; May 4; v. 274; p. 83.

Boyce, Charles A., Worcester, Mass. Nursery-bottle holder. No. 1,339,018; May 4; v. 274; p. 68.

Boyce, James, Chicago, Ill., assignor to The American Cotton Oil Company, Guttenberg, N. J. Manufacture of catalysts. No. 1,329,686; May 11; v. 274; p. 270.

Boyd, William W., assignor to Buffalo Scale Company, Buffalo, N. Y. Scale. No. 1,340,318; May 18; v. 274; p. 445.

Boze, William H., Norfolk, Va. Collapsible stand. No. 1,340,370; May 18; v. 274; p. 456.

Brackett, Edward B., Lufkin, Tex. Engine-fan-belt guard. No. 1,340,113; May 11; v. 274; p. 350.

Bradbury, Frederick L., Bridgeport, Conn. Cruller-forming die. No. 1,340,371; May 18; v. 274; p. 456.

Bradlee, Arthur T. (See Osborne, Ernest J., assignor.)

Bradley, Linn. (See Schmidt, W. A., and Bradley.)

Bradley & Vrooman Company. (See Davidson, Donald, assignor.)

Bradshaw, Granville E., Walton-on-Thames, England. Carbureter. No. 1,339,095; May 4; v. 274; p. 83.

Braid, Fountain S., New York, N. Y. Portfolio-drawer. No. 1,340,319; v. 274; p. 445.

Brandon, Irwin, Naughton Glen, Alberta, Canada. Comb-cleaner. No. 1,340,817; May 18; v. 274; p. 540.

Brandt, Carl A. W., Manhasset, N. Y., and A. J. Langeller, Providence, R. I., assignors to Locomotive Superheater Company, New York, N. Y. Swaging-machine for making U-shaped pipe-bends. No. 1,339,054; May 4; v. 274; p. 75.

Brandt, Charles D., New York, N. Y., assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump-piston. No. 1,338,765; May 4; v. 274; p. 22.

Brandt, Charles D., New York, assignor of one-half to E. J. Schweizer, Ridgewood, N. Y. Pump-stirrup. No. 1,339,943; May 11; v. 274; p. 318.

Brandt, Matthew A., asignor to J. G. Eddy, Minneapolis, Minn. Combined letter-sheet and envelop. No. 1,340,114; May 11; v. 274; p. 351.

Branson, Edward H., Pittsfield, Mass., assignor to General Electric Company. Universal die. No. 1,340,006; May 11; v. 274; p. 330.

Branson, Horace M., Knoxville, Tenn. Blank form. No. 1,339,942; May 11; v. 274; p. 318.

Brazeal, Thomas E., Maitland, W. Va. Fluid-pressure circuit-closer. No. 1,338,896; May 4; v. 274; p. 45.

Breeding, Robert G., Cincinnati, Ohio. Liquid-fuel-burning furnace. No. 1,341,294; May 25; v. 274; p. 703.

Breeze, George A., Detroit, Mich. Shim-holder for valve-tappets. No. 1,340,211; May 18; v. 274; p. 426.

Breining, Clayton P., Mill Hall, Pa. Fountain-toothbrush. No. 1,340,115; May 11; v. 274; p. 351.

Brewer, Charles A., & Sons. (See Brewer, Charles A., assignor.)

Brewer, Charles A., assignor to Charles A. Brewer & Sons, Chicago, Ill. Board-filling machine. No. 1,339,595; May 11; v. 274; p. 252.

Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)

Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Treating zinc oxid. No. 1,339,544; May 11; v. 274; p. 242.

Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to New Jersey Zinc Company, New York, N. Y. Treating zinc oxid. No. 1,339,545; May 11; v. 274; p. 242.

Bridge, Walter G., Newton, Mass. Universal dental pliers. No. 1,341,107; May 25; v. 274; p. 667.

Bridgers, John E. (See Smith, Henry, assignor.)

Briggs, Alfred A., New York, N. Y. Portable excavator. No. 1,339,687; May 11; v. 274; p. 270.

Briggs and Stratton Company. (See Smith, Reuben S., assignor.)

Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Flexible tube. No. 1,340,818; May 18; v. 274; p. 540.

Brinton, H., Company. (See Ames, Elmer U., assignor.)

Brisbeh, Ernest J., Cleveland, Ohio. Pipe-holding vise. No. 1,340,147; May 18; v. 274; p. 414.

Brisendine, Guy F., Decatur, Ill. Check and deposit-slip cabinet. No. 1,339,255; May 4; v. 274; p. 112.

Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Mounting for instruments. No. 1,338,766; May 4; v. 274; p. 22.

Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. No. 1,340,148; May 18; v. 274; p. 415.

British Automobile Equipment Company. (See Cooke, George F., assignor.)

Britt, Charles J., Willington, S. C. Tractor. No. 1,341,537; May 25; v. 274; p. 750.

Britts, Bancroft B. (See Britts, Peter W. and B. B.)

Britts, Peter W. and B. B., Portland, Oreg. Punch. No. 1,338,969; May 4; v. 274; p. 58.

Brock, Frank P. (See Redman, L. V., Weith, and Brock.)

Broegger, Ivar W., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,338,971; May 4; v. 274; p. 59.

Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Superheater-header. No. 1,338,972; May 4; v. 274; p. 59.

Brookins, Andrew J., Chicago, Ill. Automatic train-control apparatus. No. 1,339,918; May 11; v. 274; p. 313.

Brooks, Benjamin T., Bayside, N. Y., assignor to The Commercial Research Company. Purifying resins. No. 1,340,873; May 25; v. 274; p. 622.

Brooks, Elbert J., Sparta, Wis. Chain attachment. (Reissue.) No. 14,851; May 4; v. 274; p. 135.

Brooks, James, Mount Vernon, assignor to Matthew Hawe, Pelham Manor, N. Y. Spark-plug. No. 1,340,116; May 11; v. 274; p. 351.

Brooks, Roscoe A., assignor to Western Tire & Rubber Works, Chicago, Ill. Tire-retreading apparatus. (Reissue.) No. 14,852; May 4; v. 274; p. 135.

Brouwers, Ysbrand, Wageningen, Netherlands. Coaling device. No. 1,340,819; May 18; v. 274; p. 540.

Brown & Bigelow. (See Kristofek, Frank J., assignor.)

Brown & Bigelow. (See Welcker, Paul H., assignor.)

Brown, Boggs & Co. Limited, The. (See Brown, John M., assignor.)

Brown, Charles A., *et al.* (See Wood, Albert B., assignor.)

Brown, Charles W., Boston, Mass. Side-splash guard. No. 1,341,008; May 25; v. 274; p. 648.

Brown, Clarence M., Minden, La. Air-hose coupling. No. 1,340,820; May 18; v. 274; p. 540.

Brown, Davis, Bucyrus, Ohio, assignor to The American Clay Machinery Company. Casting iron screen-plates for steel grids. No. 1,339,096; May 4; v. 274; p. 84.

Brown, Douglas R., Coffeyville, Kans. Oil-pump-operating mechanism. No. 1,339,097; May 4; v. 274; p. 84.

Brown, Ellis E., Reading, Pa. Folding net-frame. No. 1,340,874; May 25; v. 274; p. 622.

Brown, Elwood V., Philadelphia, Pa. Filing-cabinet. No. 1,341,412; May 25; v. 274; p. 726.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of generators. No. 1,338,897; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,898; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,900; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion in furnaces. No. 1,338,901; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of furnaces. No. 1,338,902; May 4; v. 274; p. 46.

Brown, Francis H., Philadelphia, assignor to J. M. Hopwood, Pittsburgh, Pa. Controlling combustion in a plurality of generators. No. 1,339,055; May 4; v. 274; p. 76.

Brown, Francis H., Philadelphia, and J. M. Hopwood, Pittsburgh, Pa.; said Brown assignor to said Hopwood. Combustion-regulating method and mechanism. No. 1,338,899; May 4; v. 274; p. 46.

Brown, Harold, Dacoma, Okla. Tire-alarm. No. 1,341,613; May 25; v. 274; p. 765.

Brown, John C., Niagara Falls, Ontario, Canada. Manually-propelled toy car. No. 1,339,433; May 11; v. 274; p. 221.

Brown, John D., Las Animas, Colo. Harrow. No. 1,341,538; May 25; v. 274; p. 750.

Brown, John D., Las Animas, Colo. Harrow. No. 1,341,539; May 25; v. 274; p. 751.

Brown, John M., assignor to The Brown, Boggs Co. Limited, Hamilton, Ontario, Canada. Crimped-elbow-bending machine. No. 1,340,320; May 18; v. 274; p. 446.

Brown, Margaret J., executrix. (See Brown, Perry.)

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Brake. No. 1,340,321; May 18; v. 274; p. 446.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Hand-brake for railway-cars. No. 1,340,322; May 18; v. 274; p. 446.

Brown, Raymond E., Glen Ridge, N. J., assignor to Heyl & Patterson Incorporated, Pittsburgh, Pa. Rail-clamp. No. 1,340,598; May 18; v. 274; p. 499.

Brown, Robert, Montrose, Colo. Puzzle ring and bracelet, &c. No. 1,338,973; May 4; v. 274; p. 59.

Brown, William H., Cleveland, O., assignor to G. L. Woodard, San Diego, Calif. Spring-oiler. No. 1,339,546; May 11; v. 274; p. 243.

Browne, Arthur W. (See Johnston, W. A., Brown, and Wallace.)

Browne, Henry V., assignor of one-third to R. J. Mead, Tonkawa, Okla. Tractor-cab. No. 1,341,355; May 25; v. 274; p. 715.

Browne, Vere B., Tarentum, Pa. Manufacture of steel sheets. No. 1,340,149; May 18; v. 274; p. 415.

Browning, George W., Clinton, N. Y. Fertilizer-distributer. No. 1,339,256; May 4; v. 274; p. 112.

Bruce, Charles R., Kansas City, Mo. Folding bed. No. 1,340,212; May 18; v. 274; p. 426.

Bruder, George H., Fitchburg, Mass. Indicator for vehicles. No. 1,341,009; May 25; v. 274; p. 648.

Bruger, Louise, Jersey City, N. J. Open-mesh joint in textile and other fabrics and making same. No. 1,340,117; May 11; v. 274; p. 351.

Bruhn, Daniel, Hammond, Ind. Vehicle-jack. No. 1,340,150; May 18; v. 274; p. 415.

Brumfield, W. H., *et al.* (See Strickland, Dewitt W., assignor.)

Brunelle, Arthur, Madoc, assignor of one-half to H. L. Gordon, Flatville, Mont. Fly-chaser. No. 1,338,810; May 4; v. 274; p. 30.

Bruno, Walter A., Los Angeles, Calif. Filling composition. No. 1,341,540; May 25; v. 274; p. 751.

Brunton, David W., Denver, Colo. Illuminated transit. No. 1,339,019; May 4; v. 274; p. 68.

Bryan, William E., Akron, Ohio. Sizing or separating apparatus. No. 1,339,161; May 4; v. 274; p. 95.

Bryans, John E., Winnipeg, Manitoba, Canada. Automobile-radiator. No. 1,341,165; May 25; v. 274; p. 678.

Bryant Electric Company, The. (See Anderson, Carl E., assignor.)

Bryant Electric Company, The. (See Badeau, Harry U., assignor.)

Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)

Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Cost-keeping machine. No. 1,340,435; May 18; v. 274; p. 469.

Buchanan, Moses R., Silver City, N. Mex. Pressure-indicator. No. 1,341,542; May 25; v. 274; p. 751.

Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,340,821; May 18; y. 274; p. 541.

Buck, Alonzo M., Elizabeth, N. J. Registering mechanism for vehicles or tractors. No. 1,340,324; May 18; v. 274; p. 447.

Buckham, George T. (See Barker, F. H., and Buckham.)

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckle, John V., assignor of one-half to E. R. Dustin, Salt Lake City, Utah. Drink-mixer. No. 1,340,849; May 18; v. 274; p. 546.

Buckmann, Frederik L. W., Amsterdam, Netherlands. Cutting and rounding-off machine for teeth for clockwork. No. 1,341,541; May 25; v. 274; p. 751.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Change-speed gearing. No. 1,338,974; May 4; v. 274; p. 59.

Buensod, Alfred C., assignor to The Tobacco Treating Co. Inc., New York, N. Y. Curing tobacco. No. 1,339,373; May 4; v. 274; p. 133.

Buensod, Alfred C., assignor to The Tobacco Treating Co. Inc., New York, N. Y. Curing tobacco. No. 1,339,374; May 4; v. 274; p. 134.

Buensod, Alfred C., New York, N. Y. Curing and treating tobacco. No. 1,339,375; May 4; v. 274; p. 134.

Buffalo Scale Company. (See Boyd, William W., assignor.)

Bugbee, Lucian W., Southbridge, Mass., assignor to American Optical Company. Ophthalmic mounting. No. 1,340,875; May 25; v. 274; p. 622.

Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,341,257; May 25; v. 274; p. 696.

Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,341,258; May 25; v. 274; p. 696.

Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,339,020; May 4; v. 274; p. 68.

Bukola, Joseph. (See Ustrzycki, S., and Bukola.)

Bulanda, Franciszek. (See Bulanda, John, assignor.)

Bulanda, John, assignor of one-half to F. Bulanda, Pullman, Ill. Window-lock. No. 1,340,876; May 25; v. 274; p. 622.

Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipe-supporting means. No. 1,339,547; May 11; v. 274; p. 243.

Bump, Edward D., assignor to The Bettcher Stamping and Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,340,151; May 18; v. 274; p. 415.

Bunce, Earl H. (See Breyer, F. G., and Bunce.)

Burchett, Walter J., East Orange, assignor to Slocum, Avram & Slocum Laboratories, Inc. Newark, N. J. Electromechanical switch. No. 1,339,844; May 11; v. 274; p. 299.

Burchett, Walter J., East Orange, assignor to Slocum, Avram & Slocum Laboratories, Inc., Newark, N. J. Electromechanical switch. No. 1,339,845; May 11; v. 274; p. 299.

Burdick, Charles L., Sheffield, Ala. Process of and apparatus for treating gas mixtures containing oxids of nitrogen. No. 1,339,494; May 11; v. 274; p. 232.

Burger, Samuel. (See Benjamin, P., and Burger.)

Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)

Burgess, Henry. (See Stevenson, C. V., and Burgess.)

Burke, Wilbur B., Cleveland, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio. Apparatus for vulcanizing rubber and making same. No. 1,339,736; May 11; v. 274; p. 279.

Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Duplex-acting percussive boiler-tube cleaner. No. 1,339,098; May 4; v. 274; p. 84.

Burnett, Ira A., Chicago, Ill. Gold-saving receptacle. No. 1,340,213; May 18; v. 274; p. 426.

Burnett, John P., Oak Park, assignor to Ad-Photoscope Company, Inc., Chicago, Ill. Motion-picture machine. No. 1,341,108; May 25; v. 274; p. 667.

Burnham, Donald C. (See Porter, Robert S., assignor.)

Burnham, Lincoln, Urbana, Ohio. Meter. No. 1,338,852; May 4; v. 274; p. 37.

Burnham, William A., Irvington, N. Y. Sash-operating mechanism. No. 1,338,671; May 4; v. 274; p. 4.

Burridge, Francis O., executor. (See Burridge, Lee S.)

Burridge, Lee S., deceased; F. O. Burridge executor, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,339,806; May 11; v. 274; p. 292.

Burrill, John R. (See Turner, L. P., and Burrill.)

Burrowes, Edward T. *et al.* (See Davis, G. H., and Griffin, assignors.)

Burrows, Charles W., Washington, D. C. Electromagnetic device. No. 1,340,698; May 18; v. 274; p. 518.

Burstall, William H., and W. Adamson, Oxnard, Calif. Sucker-rod elevator. No. 1,341,166; May 25; v. 274; p. 678.

Burtis, Albert C., Mount Vernon, N. Y. Match-holding attachment for commercial tobacco-boxes. No. 1,341,295; May 25; v. 274; p. 703.

Burton, Thomas L., assignor to American Brake Company, St. Louis, Mo. Metal brake-beam. No. 1,340,007; May 11; v. 274; p. 330.

Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,008; May 11; v. 274; p. 330.

Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,009; May 11; v. 274; p. 330.

Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,340,010; May 11; v. 274; p. 330.

Burton, William H., and C. J. Wilkerson, East St. Louis, Ill., Aerial-mail exchange. No. 1,338,970; May 4; v. 274; p. 59.

Bushell, Ernest E., and M. E. Conkling, Lawton, Okla. Dispensing-machine. No. 1,340,822; May 18; v. 274; p. 541.

Busk, Anthony S., Woodhaven, assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,339,099; May 4; v. 274; p. 84.

Butler, Glenn, *et al.* (See Otto, A. and W., assignors.)

Butler, James A., Needham, Mass. Trimming-machine. No. 1,339,807; May 11; v. 274; p. 292.

Butler, Leonard F. G., assignor of one-third to A. H. R. Fedden and one-third to Cosmos Engineering Company Limited, Bristol, England. Balancing engines. No. 1,340,823; May 18; v. 274; p. 541.

Butterfield, Lewis A., assignor to the Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass. Snapping-rolls for corn-husking machines. No. 1,339,737; May 11; v. 274; p. 279.

Butters, William H., Calgary, Alberta, Canada. Automobile-jack. No. 1,340,749; May 18; v. 274; p. 527.

Butterworth, H. W., & Sons Company. (See Hunter, Rudolph M., assignor.)

Cadman, Addi B., Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill. Vehicle-coupling. No. 1,340,521; May 18; v. 274; p. 484.

Calhoun, George E., Amsterdam, N. Y. Brake-lining dressing. No. 1,338,811; May 4; v. 274; p. 30.

Calhoun, John B., Apollo, Pa. Package-tie. No. 1,339,317; May 4; v. 274; p. 123.

California Burdett Oxygen Company. (See Coberly, Clarence J., assignor.)

Calkins, Charles H., Ludlow, Mass., assignor to Baush Machine Tool Company. Composite gear. No. 1,338,672; May 4; v. 274; p. 4.

Callahan, James M., Washington, D. C. Swagger-stick. No. 1,339,162; May 4; v. 274; p. 95.

Callahan, James M., Washington, D. C. Swagger-stick. No. 1,339,257; May 4; v. 274; p. 112.

Callahan, John W. and M. B., El Paso, Tex. Sanitary cover-pad for mattresses. No. 1,339,738; May 11; v. 274; p. 279.

Callahan, Maud B. (See Callahan, John W. and M. B.)

Calleiy, Thomas F. (See Seeley, Leonard E., assignor.)

Campbell, Edward F., administrator. (See Campbell, George R. C.)

Campbell, George L., Springfield, Mo. Union overalls. No. 1,341,224; May 25; v. 274; p. 690.

Campbell, George R. C., deceased, Slough, England; Edward F. Campbell, administrator, Moy, Ireland, and Geoffrey T. Bennett, Slough, England. Magnetic compass. No. 1,341,296; May 25; v. 274; p. 703.

Campbell, Roy L., assignor of one-half to J. W. Cummings, Altonpark, Tenn. Stop mechanism. No. 1,340,152; May 18; v. 274; p. 415.

Can Conservation Company. (See Rude, James M., assignor.)

Canale, Mario A., and R. Frias, Buenos Aires, Argentina: Apparatus for utilizing the trepidations of vehicles. No. 1,340,013; May 11; v. 274; p. 331.

Canclanich, Francis J., Newport News, Va. Hat-fastener. No. 1,341,356; May 25; v. 274; p. 715.

Cant, Alfred. (See Hall, Nelson, assignor.)

Capehart, Newton P., Crystal River, Fla. Trap. No. 1,340,372; May 18; v. 274; p. 456.

Capman, Carl E., assignor to J. Saltzman, Chicago, Ill. Ironing-machine. No. 1,340,522; May 18; v. 274; p. 484.

Carborundum Company, The. (See Hutchins, Otis, assignor.)

Carborundum Company, The. (See Linbarger, Silas C., assignor.)

Cardwell, Addison A., New York, N. Y., assignor to Pratt & Cady Company, Incorporated, Hartford, Conn. Heater. No. 1,340,153; May 18; v. 274; p. 416.

Cardwell, Walter T., Birmingham, Ala. Camera. No. 1,341,543; May 25; v. 274; p. 751.

Careaga, Juan T., San Jose, Calif. Needle. No. 1,341,357; May 25; v. 274; p. 715.

Carey, Philip S., Manufacturing Co., The. (See Bowman, Ford C., assignor.)

Carlin, Alfred J., St. Paul, Minn. Non-refillable bottle. No. 1,340,373; May 18; v. 274; p. 456.

Carlson, Wendell L., and E. C. Hanson, Washington, D. C. Electrotherapeutic apparatus. No. 1,338,812; May 4; v. 274; p. 30.

Carlucci, Rocco T., West New York, assignor to Oscar Schmidt, Inc., Jersey City, N. J. Banjo. No. 1,339,318; May 4; v. 274; p. 123.

Carns, Edmund B., Detroit, Mich. Aircraft. No. 1,340,154; May 18; v. 274; p. 416.

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Snap-fastener. No. 1,341,043; May 25; v. 274; p. 655.

Carroll, Fred M., assignor to The National Cash Register Company, Dayton, Ohio. Printing mechanism for cash-registers. No. 1,338,903; May 4; v. 274; p. 47.

Carson, Helen S., Stamford, Conn. Heater for washing-machines. No. 1,341,109; May 25; v. 274; p. 667.

Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Load handling and measuring device. No. 1,341,297; May 25; v. 274; p. 704.

Carter, Daniel. (See Roach, P. J., and Carter.)

Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Injector or ejector. No. 1,341,010; May 25; v. 274; p. 648.

Carver, James H., Schenectady, N. Y., assignor to General Electric Company. Gear, roll, and the like. No. 1,340,011; May 11; v. 274; p. 331.

Casale Safety Device Company. (See Shaver, Archibald G., assignor.)

Cashman, Clarence G., assignor to Cashman Tool Company, Waynesboro, Pa. Detachable-tooth cutter. No. 1,340,474; May 18; v. 274; p. 475.

Cashman Tool Company. (See Cashman, Clarence G., assignor.)

Caskey, Samuel S., Philadelphia, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spark-arrester. No. 1,339,495; May 11; v. 274; p. 233.

Cassea, Erwin, Gloversville, N. Y. Floating-weight soundbox. No. 1,340,436; May 18; v. 274; p. 469.

Catlin, Hoyt, assignor to Landers, Frary & Clark, New Britain, Conn. Controlling device. No. 1,340,930; May 25; v. 274; p. 632.

Cauley, William F., Wade Miss. Automobile-spring. No. 1,338,673; May 4; v. 274; p. 5.

Caulkins, John A., Hartford, Conn. Landing-stage for aeroplanes. No. 1,340,325; May 18; v. 274; p. 447.

Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Spark-coil. No. 1,339,100; May 4; v. 274; p. 84.

Cave, Henry, Elizabeth, and J. L. Anderson, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y. Flame-projector apparatus. No. 1,340,012. May 11; v. 274; p. 331.

Cazel, Cassius E., and J. W. Le Craw, Cincinnati, Ohio. Brush. No. 1,340,931; May 25; v. 274; p. 632.

Central Tool Co., The. (See Jaques, Fernando O., Sr., assignor.)

Chackan, Joseph L., Mammoth, Pa. Automobile-lock. No. 1,340,326; May 18; v. 274; p. 447.

Chain Belt Company. (See Bethke, Leo, assignor.)

Chamberlain, Alice R. (See Chamberlain, Parker G., assignor.)

Chamberlain, Parker G., assignor of half to A. R. Chamberlain, Spokane, Wash. Linear counter-rule. No. 1,339,644; May 11; v. 274; p. 262.

Chamberlin, Albert V., Coeur d'Alene, Idaho. Coin-wrapping machine. No. 1,339,808; May 11; v. 274; p. 293.

Chamberlin, Clarence P., Birmingham, Mich. Sliding windshield-joint. No. 1,341,413; May 25; v. 274; p. 726.

Chambers, Percy H., *et al.*, executors. (See Tyrer, Thomas.)

Champeau, Lawrence X., Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y. Skylight illuminating device. No. 1,341,259; May 25; v. 274; p. 696.

Chapin, Byron E., Oklahoma, Okla. Acoustic stand for telephone-receivers. No. 1,341,358; May 25; v. 274; p. 716.

Champion, Albert J., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,338,674; May 4; v. 274; p. 5.

Champion Ignition Company. (See Champion, Albert J., assignor.)

Champion Ignition Company. (See Schmidt, Albert, assignor.)

Chapman, Charles H., assignor to General Abrasive Company, Inc., Niagara Falls, N. Y. Controlling the thickness of walls in an electric furnace. No. 1,340,155; May 18; v. 274; p. 416.

Chapman, Elsworth E., Tacoma, Wash. Car-mover. No. 1,340,523; May 18; v. 274; p. 484.

Chapman Engineering Company. (See Chapman, William B., assignor.)

Chapman, Fred H., Winchester, Mass. Ball-bearing spindle. No. 1,338,904; May 4; v. 274; p. 47.

Chapman Valve Manufacturing Company. (See Wittstein, Herman L., assignor.)

Chapman, William B., assignor to Chapman Engineering Company, Mount Vernon, Ohio. Gas-producer. No. 1,341,044; May 25; v. 274; p. 655.

Chappuis, John A., La Chaux-de-Fonds, Switzerland. Alarm. No. 1,341,298; May 25; v. 274; p. 704.

Charles, Roy B. (See Park, Jay M., assignor.)

Charlton, Harry W., New York, N. Y. Potash-reclaiming. No. 1,341,110; May 25; v. 274; p. 668.

Chase Adding Machine Corporation. (See Chase, George C., assignor.)

Chase, George C., East Orange, assignor to Chase Adding Machine Corporation, Orange, N. J. Adding-machine. No. 1,340,374; May 18; v. 274; p. 457.

Chase, L. C., & Company. (See Norcross, Walter E., assignor.)

Chemical Foundation, Inc., The. (See Baum, Erich, assignor.)

Chemical Foundation, The. (See Goldschmidt, H., and Müller, assignors.)

Chemical Foundation, Inc., The. (See Graaff, Clemens, assignor.)

Chemical Foundation, The. (See Strauss, Benno, assignor.)

Chemical Foundation Company, The. (See Wirth, Ernst, assignor.)

Cheek, Henry M., Ferndale, Ark. Air control. No. 1,341,260; May 25; v. 274; p. 696.

Chen, Kungche, Shanghai, China. Camera. No. 1,339,319; May 4; v. 274; p. 123.

Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-box. No. 1,339,809; May 11; v. 274; p. 293.

Cheney Talking Machine Company. (See Cheney, Forest, assignor.)

Chiarelli, Anthony, New York, N. Y. Mechanical roller-skate. No. 1,338,813; May 4; v. 274; p. 30.

Chiarelli, Anthony, New York, N. Y. Aeroplane-stabilizer. No. 1,340,214; May 18; v. 274; p. 426.

Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)

Childers, Marion G., Willows, Calif. Hydrocarbon-burner. No. 1,338,853; May 4; v. 274; p. 37.

Chrestenson, Louis F., assignor to Port Huron Engine & Thresher Company, Port Huron, Mich. Axle construction. No. 1,340,932; May 25; v. 274; p. 633.

Christensen, Rasmus P., assignor of one-half to C. O. Johnson, Buffalo, N. Y. Record-repeating device for sound-reproducing instruments. No. 1,340,524; May 18; v. 274; p. 485.

Christensen, Rasmus P., assignor of one-half to C. O. Johnson, Buffalo, N. Y. Record-repeating device for sound-reproducing machines. No. 1,340,525; May 18; v. 274; p. 485.

Christopher, Calvin F., Canton, assignor of one-half to J. H. Everett, Bryson City, N. C. Collapsible box. No. 1,339,071; May 4; v. 274; p. 68.

Chryst, William A. (See Kettering, C. F., and Chryst.)

Church, Edmund S., Chicago, Ill. Check-valve. No. 1,339,101; May 4; v. 274; p. 85.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,496; May 11; v. 274; p. 233.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,497; May 11; v. 274; p. 233.

Church, William H., Superb, Saskatchewan, Canada. Attachment to shocking-machines. No. 1,341,167; May 25; v. 274; p. 678.

Churchill, Charles W., Lowell, Mass. Ice-creeper. No. 1,340,877. May 25; v. 274; p. 622.

Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Headlight for vehicles. No. 1,338,675; May 4; v. 274; p. 5.

Cima, Valentine, Chicago, Ill. Window-sash operator. No. 1,339,879; May 11; v. 274; p. 306.

Cinq-Mars, Legendre, San Francisco, Calif. Gas-radiator. No. 1,339,944; May 11; v. 274; p. 318.

Claflin, Albert B., Toledo, Oreg. Clothes-hook. No. 1,340,014; May 11; v. 274; p. 331.

Claflin, Albert B., Toledo, Oreg. Hammock or bed construction. No. 1,340,015; May 11; v. 274; p. 331.

Clamer, George F., Collegeville, Pa. Electric system for storage and measurement of gasolene. No. 1,338,814; May 4; v. 274; p. 31.

Clamert Manufacturing Company, The. (See Emmert, George W., assignor.)

Clarinda Lawn Mower Company. (See Toll, Herman H., assignor.)

Clark, A. C., & Co. (See Clark, Albert C., assignor.)

Clark, Albert C., assignor to A. C. Clark & Co., Chicago, Ill. Anesthetic apparatus. No. 1,338,905; May 4; v. 274; p. 47.

Clark, Claiborn, Los Angeles, Calif. Railway-crossing. No. 1,340,750; May 18; v. 274; p. 527.

Clark, Earl W., Sharon, and F. C. Clarke, near Sharon, Pa. Slagging-machine for furnaces. No. 1,340,156; May 18; v. 274; p. 416.

Clark, Edward, Milwaukee, Wis. Vehicle-spring. No. 1,338,854; May 4; v. 274; p. 38.

Clark, Jerrie, Springfield, Mass. Cream-separator. No. 1,341,261; May 25; v. 274; p. 696.

Clark, L. A. (See Floyd, Charles W., assignor.)

Clarke, Charles E. (See Bevan, W. W., and Clarke.)

Clarke, Frank C. (See Clark, E. W., and Clarke.)

Clarke, John A., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,339,945; May 11; v. 274; p. 319.

Clarke, Ralph S., Walpole, Mass., assignor to Bird Machine Company. Strainer. No. 1,340,599; May 18; v. 274; p. 499.

Claus, Emil L., Milwaukee, Wis. Ignition-torch for gas-burners. No. 1,339,102; May 4; v. 274; p. 85.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical testing system. No. 1,340,933; May 25; v. 274; p. 633.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,340,934; May 25; v. 274; p. 633.

Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,340,935; May 25; v. 274; p. 633.

Clayberg, Clarence C., Detroit, Mich. Belt-splicer. No. 1,341,359; May 25; v. 274; p. 716.

Clayton, William G., Melbourne, Victoria, Australia. Sparking plug. No. 1,340,878; May 25; v. 274; p. 623.

Clench, William A. (See Benefiel, Claude, assignor.)

Cleveland, Arthur, Augusta, Ark. Combination umbrella and cane. No. 1,340,375; May 18; v. 274; p. 457.

Cleveland Worm & Gear Company, The. (See Fitzpatrick, David, assignor.)

Cleworth, Ernest B., St. Paul, Minn. Heater. No. 1,338,855; May 4; v. 274; p. 38.

Clifford, William E., Memphis, Tenn. Separating wood-tars and pyroligneous acid. No. 1,339,022; May 4; v. 274; p. 69.

Close, William F., Waterloo, Iowa. Holder for liquid-containers. No. 1,339,163; May 4; v. 274; p. 95.

Closs, Jacob, St. Ansgar, Iowa. Combined air regulator and deflector. No. 1,341,494. May 25; v. 274; p. 742.

Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, Sunnyvale, Calif. Collapsible furniture. No. 1,341,225; May 25; v. 274; p. 690.

Clough, William R., Alton, N. H. Pocket implement. No. 1,339,164; May 4; v. 274; p. 95.

Coale, George O. G., trustee. See Arno, Oliver H., assignor.)

Cobb, Julia L., executrix. (See Cobb, Leander B.)

Cobb, Leander B., deceased, Julia L. Cobb, executrix, Portland, Me., assignor of one-half to W. B. Cobb, Cleveland, Ohio. Shaft-aligning device. No. 1,339,919; May 11; v. 274; p. 313.

Cobb, William B. (See Cobb, Leander B., assignor.)

Coberly, Clarence J., Los Angeles, Calif., assignor to California Burdett Oxygen Company. Oxyhydrogen cutting-torch. No. 1,340,699; May 18; v. 274; p. 518.

Cochran, Smith H., Chicago, Ill. Dish-washing machine. No. 1,339,810; May 11; v. 274; p. 293.

Cochrane, Thomas H., Jersey City, N. J. Locomotive-crane sander. No. 1,340,016; May 11; v. 274; p. 331.

Cocks, James R. (See Scism, Arthur G., assignor.)

Coddington, Charles C. (See Fite, C. V., and Coddington.)

Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Machine for assembling radiator-cores. No. 1,339,434; May 11; v. 274; p. 221.

Coffey, Joseph H., and J. H., Jr., Toronto, Ontario, Canada. Forming tubular cord fabrics. No. 1,339,103; May 4; v. 274; p. 85.

Coffey, Joseph H., Jr. (See Coffey, J. H. and J. H., Jr.)

Coffin, Grange S., New York, N. Y. Valve. No. 1,341,544; May 25; v. 274; p. 751.

Cohen, Ellis C., Willimantic, Conn. Game. No. 1,341,360; May 25; v. 274; p. 716.

Cohon, Benjamin J., Westwood, assignor of one-half to L. Moskowitz, Bayonne, N. J. Latching device. No. 1,339,320; May 4; v. 274; p. 123.

Coke-Hill, Lionel, Montreal, Quebec, Canada. Concrete vessel. No. 1,338,815; May 4; v. 274; p. 31.

Colbert, James A., Delphos, Ohio. Hone-holder. No. 1,340,751; May 18; v. 274; p. 528.

Colburn, Irving W., Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company. Glass drawing and cutting mechanism. No. 1,341,262; May 25; v. 274; p. 697.

Cole, Albert L., Auburndale, Mass. Fire-extinguisher. No. 1,340,376; May 18; v. 274; p. 457.

Cole, Elisha W., Charlotte, N. C. Planter. No. 1,339,688; May 11; v. 274; p. 270.

Cole, William F., Waco, Tex. Apparatus for forming gun-barrels. No. 1,339,023; May 4; v. 274; p. 69.

Coleman Boiler Appliance Company, The. (See Coleman, Charles S., assignor.)

Coleman, Charles S., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. Boiler-tube end section. No. 1,339,739; May 11; v. 274; p. 279.

Coleman, Charles S., Los Angeles, Calif., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. Safe end flue. No. 1,339,740; May 11; v. 274; p. 279.

Coleman, Charles S., assignor to The Coleman Boiler Appliance Company, Los Angeles, Calif. Boiler-tube and end-plate connection. No. 1,340,118; May 11; v. 274; p. 351.

Collar, Wells N., Detroit, Mich. Upholstery-fastening means. No. 1,340,475; May 18; v. 274; p. 475.

Collignon, William C., Chicago, Ill. Pneumatic action for musical instruments. No. 1,340,017; May 11; v. 274; p. 332.

Collins, Edgar V., and F. T., Ames, Iowa. Clutch and fuel-supply control mechanism. No. 1,339,435; May 11; v. 274; p. 221.

Collins, Fonzo M., and J. H. Glenn, Holtville, Calif. Toy. No. 1,339,165; May 4; v. 274; p. 95.

Collins, Fred T. (See Collins, Edgar V. and F. T.)

Collins, William A., Vancouver, British Columbia, Canada. Soap-container. No. 1,339,166; May 4; v. 274; p. 96.

Colnus, Frank J., Baltimore, Md. Hitch-pin for pianos and other string instruments. No. 1,339,689; May 11; v. 274; p. 270.

Columbian Bronze Corporation. (See Hall, Louis J., assignor.)

Columbian Printing Company. (See Closky, George J., assignor.)

Combo Manufacturing Co. (See Tiffin, Vandevere, assignor.)

Comfort, Edward W. (See Thompson, A. W., and Comfort.)

Commercial Research Company, The. (See Brooks, Benjamin T., assignor.)

Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)

Comstock, Jesse F., Wilkes-Barre, Pa. Press. No. 1,341,414; May 25; v. 274; p. 726.

Condran, Joseph J., New Orleans, La. Bumpers. No. 1,339,167; May 4; v. 274; p. 96.

Cone Carrier Corporation. (See McIntosh, Frank E., assignor.)

Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Self-lubricating bearing. No. 1,341,415; May 25; v. 274; p. 727.

Conkling, Marion E. (See Bushell, E. E., and Conkling.)

Connable, Frank L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spark-arresting device. No. 1,339,498; May 11; v. 274; p. 233.

Connecticut Telephone & Electric Company. (See Cavanagh, John F., assignor.)

Connecticut Telephone & Electric Company, The. (See Livingston, Stanley D., assignor.)

Conner, Thomas R., Sylvan, Pa. Soap-dish. No. 1,340,327; May 18; v. 274; p. 447.

Connor, Charles F., Marlboro, Mass. Cutting-block. No. 1,340,018; May 11; v. 274; p. 332.

Conrad, Albert L., Pasadena, Calif. Rake. No. 1,339,436; May 11; v. 274; p. 221.

Consolidated Gas Company of New York. (See Hodges, Charles H., assignor.)

Constantinesco, George, Alperton, and J. R. Middleton, London, England. Storage of energy due to an explosion. No. 1,338,676; May 4; v. 274; p. 5.

Contal, Camille, St. Cloud, and E. Requillart, Paris, France. Expression mechanism for mechanical pianos. No. 1,340,019; May 11; v. 274; p. 332.

Continental Can Company. (See Warme, I. F., and Blood, assignors.)

Continental Gin Company. (See Ligon, Harry W., assignor.)

Continental Gin Company. (See Munger, Eugene, assignor.)

Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. No. 1,340,936; May 25; v. 274; p. 633.

Cook, Frederick R., New York, N. Y. Mail-chute. No. 1,338,975; May 4; v. 274; p. 60.

Cook, Frederick R., New York, N. Y. Mail-chute. No. 1,338,976; May 4; v. 274; p. 60.

Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)

Cook, Thomas E., and A. T. Freije, Rincon, N. Mex. Locks.

Cooke, George F., assignor to British Automobile Equipment Company Limited, London, England. Method and apparatus for manufacturing radiator-tubes. No. 1,339,104; May 4; v. 274; p. 85.

Cooley, Henry R., assignor to The American Paper Goods Company, Kensington, Conn. Cartridge-belt. No. 1,341,111; May 25; v. 274; p. 668.

Cooling, Arthur B., assignor to Superior Machine Company, Sterling, Ill. Driving mechanism for washing-machines. No. 1,340,328; May 18; v. 274; p. 447.

Cooper, Charles W. (See Morris, Pratt C., assignor.)

Cooper, Clarence S., Hondo, Calif. Sanitary mattress. No. 1,339,880; May 11; v. 274; p. 306.

Cooper Hewitt Electric Company. (See Barrett, Thomas A., assignor.)

Cooper, Isidor, Brooklyn, assignor to Otis-Flagg Corporation, New York, N. Y. Hose-clamp. No. 1,340,937; May 25; v. 274; p. 634.

Cooper, Isidor, Brooklyn, assignor to Otis-Flagg Corporation, New York, N. Y. Hose-clamp and making same. No. 1,340,938; May 25; v. 274; p. 634.

Cope, Frank T. (See Baily, T. F., and Cope.)

Copland, James P., South Euclid, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Furnace and lining therefor. No. 1,341,299; May 25; v. 274; p. 704.

Corbett, Jay B. (See Settle, William L., assignor.)

Corcoran, Margaret J., Scranton, Pa. Egg-washer. No. 1,340,020; May 11; v. 274; p. 332.

Cordery, Charles. (See Cordery, William and C.)

Cordery, William and C., Toledo, Ohio. Wall-plug. No. 1,340,752; May 18; v. 274; p. 528.

Corey, James A., London, England. Intaglio printing-plate. No. 1,339,741; May 11; v. 274; p. 280.

Corning Glass Works. (See Churchill, William, assignor.)

Corrall, Herbert, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company. Hemming and trimming attachment for sewing-machines. No. 1,339,742; May 11; v. 274; p. 280.

Cortella, Alfonso, Philadelphia, Pa. Sound recording and reproducing machine. No. 1,341,011; May 25; v. 274; p. 649.

Cortese, Emilio M. Crespi, and A. Squassi, Milan, Italy. Rotary pulverizer. No. 1,339,499; May 11; v. 274; p. 234.

Cosmos Engineering Company, *et al.* (See Butler, Leonard F. G., assignor.)

Costoviei, Nicolas B., Lausanne, Switzerland. Device for quickly tracing circles of given diameters. No. 1,341,457; May 25; v. 274; p. 735.

Coté, Theodore, Duluth, Minn. Fishhook. No. 1,338,856; May 4; v. 274; p. 38.

Cott, Charles M., Richmond, Va. Household safety-deposit box. No. 1,340,877; May 18; v. 274; p. 457.

Cotton, Clayborn B., Dardanelle, Ark. Method and apparatus for ginning cotton. No. 1,341,168; May 25; v. 274; p. 679.

Cotton, Walter H., Chicago, Ill. Spark-plug. No. 1,340,526; May 18; v. 274; p. 485.

Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)

Couch, Charles C. (See Borcherdt, Raymond, assignor.)

Coulson, William J., Houston, Tex. Pump-piston. No. 1,338,906; May 4; v. 274; p. 47.

Coulson, William J., Houston, Tex. Valve-flushing means. No. 1,338,907; May 4; v. 274; p. 47.

Counselman, Theodore B. (See Swart, W. G., Jordan, Davis, and Counselman.)

Courty, Leon, Windsor, Mo. Safety device for elevators. No. 1,341,112; May 25; v. 274; p. 668.

Covert, Ralph E., Detroit, Mich. Motor-operated rotary hammer. No. 1,341,545; May 25; v. 274; p. 752.

Covey, Frank E., San Francisco, assignor of one-fourth to H. L. Covey, Oakland, Calif. Combination reciprocal and turbine internal-combustion engine. No. 1,340,527; May 18; v. 274; p. 485.

Covey, Howard L. (See Covey, Frank E., assignor.)

Covington, Robert L., Morgantown, W. Va. Turning-machine. No. 1,341,495; May 25; v. 274; p. 742.

Cox, Charles C. (See Shoemaker, J. J., and Cox.)

Cox, Harry S., Clayton, N. Mex. Automobile-wheel. No. 1,339,168; May 4; v. 274; p. 96.

Cox, Ralph C., Waumeta, Nebr. Road-grader. No. 1,339,548; May 11; v. 274; p. 243.

Cox, William F., assignor to Sanitary Heating and Ventilating Company, Incorporated, Danville, Va. Apparatus for cleaning, moistening, and cooling air. No. 1,339,105; May 4; v. 274; p. 85.

Coxe Travelling Grate Company. (See Lloyd, William, assignor.)

Coxe Traveling Grate Company. (See Wallen, Earl S., assignor.)

Crabill, Frank M., San Francisco, Calif. Seat-support. No. 1,340,753; May 18; v. 274; p. 528.

Crawford, Joseph L., Raymond, Wash. Razor. No. 1,338,908; May 4; v. 274; p. 48.

Crawford, Walter. (See Johnson, Charles, assignor.)

Craig, Angus G., *et al.* (See Dobbins, Michael G., assignor.)

Crandon, Joseph B., assignor to Crandon Manufacturing Company, Portland, Me. Regulating the acidity of sulfite liquor. No. 1,340,649; May 18; v. 274; p. 509.

Crandon, Joseph B., assignor to Crandon Manufacturing Company, Portland, Me. Apparatus for regulating the acidity of sulfite liquor and other like purposes. No. 1,341,361; May 245; v. 274; p. 716.

Crandon Manufacturing Company. (See Crandon, Joseph B., assignor.)

Crane, William M., Company. (See O'Dowd, Henry W., assignor.)

Creasey, Samuel E., Sanford, Me. Squeezer. No. 1,341,496; May 25; v. 274; p. 743.

Crespi, Mario. (See Cortese, E., Crespi, and Squassi.)

Cress, Isaac N., Wakeeney, Kans. Truss. No. 1,339,946; May 11; v. 274; p. 319.
Criqui, Charles A., and E. T. Larkin, Buffalo, N. Y.; said Larkin assignor to said Criqui. Pump. No. 1,339,500; May 11; v. 274; p. 234.
Cronau, Otto, New York, N. Y. Tool-holder. No. 1,341,206; May 25; v. 274; p. 686.
Cross, Andrew J., New York, N. Y. Ophthalmic-lens blank. No. 1,340,021; May 11; v. 274; p. 332.
Crouch, William S., Tacoma, Wash., assignor to Line Carrying Buoy Company. Buoy. No. 1,339,321; May 4; v. 274; p. 123.
Crozier, Alfred O., New York, N. Y. Apparatus for making hollow concrete bricks and other articles. No. 1,340,824; May 18; v. 274; p. 541.
Cultitractor Company. (See Stahl, Michael, assignor.)
Culver, Lewis O., and J. B. Wills, West Pittston, Pa.; said Wills assignor to said Culver. Truck. No. 1,340,378; May 18; v. 274; p. 457.
Cummings, J. W. (See Campbell, Roy L., assignor.)
Curme, Henry R., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Making ethyl sulfates. No. 1,339,947; May 11; v. 274; p. 319.
Curran, William F., Annapolis, Md. Sanitary drinking-fountain. No. 1,339,322; May 4; v. 274; p. 124.
Currey, Charles F., Topeka, Kans. Windmill. No. 1,341,045; May 25; v. 274; p. 655.
Curry, Charles M., Paducah, Ky. Flytrap. No. 1,341,416; May 25; v. 274; p. 727.
Curry, J. P. M'f'g Co. Inc. (See Foulder, Henry B., assignor.)
Curry, William. (See Seidenburg, Charles L., assignor.)
Cutler, Clifford A., Buffalo, N. Y. Relative-humidity-controlling means. No. 1,340,939; May 25; v. 274; p. 634.
Cutler-Hammer Mfg. Co., The. (See Fernow, Bernard E., Jr., assignor.)
Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)
Cuttrell, William H. (See Rothwell, R., and Cuttrell.)
Cypert, Joseph A., Kansas City, Mo. Comb. No. 1,340,379; May 18; v. 274; p. 457.
Czarneckl, Wladyslaw. (See Murphy, T. W., and Czarneckl.)
Dahl, Emil, Minneapolis, Minn. Brace for correcting footangles. No. 1,340,700; May 18; v. 274; p. 519.
Dain, A. L. (See Jones, Harry H., assignor.)
Dakin, Isaac C., Owosso, Mich. Grain and food cooker. No. 1,339,323; May 4; v. 274; p. 124.
Dallard, Lucien H., New York, N. Y. Vise. No. 1,340,477; May 18; v. 274; p. 476.
Dallas, William, Philadelphia, Pa. Cutter-clearance gage. No. 1,340,022; May 11; v. 274; p. 333.
Dalman, John W., Chicago, Ill. Producing yokes for draft-rigging. No. 1,340,528; May 18; v. 274; p. 485.
Daniel, Benjamin F. (See Egeland, Peter O., assignor.)
Danielson, Edward. (See Forsman, V., and Danielson, assignor.)
Danner, Emil C., Westmont borough, Pa. Track-fastening and making same. No. 1,340,478; May 18; v. 274; p. 476.
D'Aquin, Richard J., New Orleans, La. Pad for umbrella-tips. No. 1,340,476; May 18; v. 274; p. 476.
Darlington, Philip J., assignor to The Roto Company, Hartford, Conn. Milling-machine. No. 1,341,300; May 25; v. 274; p. 704.
Darr, Harry O., near Marion, Iowa. Differential-locking mechanism. No. 1,338,720; May 4; v. 274, p. 13.
Darrin, Marc, Wilkinsburg, assignor to The Koppers Company, Pittsburgh, Pa. Turpentine substitute. No. 1,340,600; May 18; v. 274; p. 500.
Daubenspeck, Peter E., Butler, Pa. Tire-chain. No. 1,341,301; May 25; v. 274; p. 704.
Dauster, John, Wilkinsburg, Pa. Fan. No. 1,339,169; May 4; v. 274; p. 96.
Dauteuil, Fernand. (See Krèe, P. M., and Dauteuil.)
Davenport, John R., Hoxie, Ark. Timber-cutting machine. No. 1,338,977; May 4; v. 274; p. 60.
Davey, Leigh H., Jersey City, N. J. Heads for barrels and other similar receptacles. No. 1,340,023; May 11; v. 274; p. 333.
Davidson, Donald, assignor to Bradley & Vrooman Company, Chicago, Ill. Stabilizing polysulfids and the products of such methods. No. 1,338,678; May 4; v. 274; p. 60.
Davidson, George, Britannia Beach, British Columbia, Canada. Device for pulling rock-drills when stuck. No. 1,339,024; May 4; v. 274; p. 69.
Davies, Laurence, New Malden, England. Water-waste preventer. No. 1,339,690; May 11; v. 274; p. 271.
Davies, Samuel, Eltham, England. Hand soldering-tool. No. 1,341,497; May 25; v. 274; p. 743.
Davis, Arthur, Kidderminster, assignor to Thomas Bond North & Sons Limited, Stourport, England. Loom for weaving tufted fabrics such as carpets and the like. No. 1,341,417; May 25; v. 274; p. 727.
Davis-Bournonville Company. (See Buckman, Worthy C., assignor.)
Davis-Bournonville Company. (See Cave, H., and Anderson, assignors.)
Davis, Donald C., Depew, assignor to Gould Coupler Co., New York, N. Y. Buffer for railway rolling-stock. No. 1,339,743; May 11; v. 274; p. 280.
Davis, Edward W. (See Swart, W. G. Jordan, Davis, and Counselman.)
Davis, George H. Portland, Me., and W. G. Griffin, Washington, D. C., assignors of one half to said Davis and one-half to E. T. Burrowes, Portland, Me. Auxiliary tractor for motor-vehicles. No. 1,340,024; May 11; v. 274; p. 333.
Davis, H. D., Manufacturing Company, The. (See Davis, Harry G., assignor.)
Davis, Harry G., assignor to The H. D. Davis Manufacturing Company, Philadelphia, Pa. Printing and inking device. No. 1,340,380; May 18; v. 274; p. 458.
Davis, Henry P., New York, N. Y. Window-frame. No. 1,339,170; May 4; v. 274; p. 96.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 1,341,263; May 25; v. 274; p. 697.
Davis, John J., Youngstown, Ohio. Micrometer. No. 1,341,546; May 25; v. 274; p. 752.
Davis, Noah W., assignor of one-half to E. M. Markel, Des Moines, Iowa. Burial-vault. No. 1,339,920; May 11; v. 274; p. 314.
Davis, William E., Morristown, N. J. Portable fence. No. 1,341,264; May 25; v. 274; p. 697.
Davis, William J., Bush Hill Park, England. Stamp-affixing machine. No. 1,338,978; May 4; v. 274; p. 60.
Davison, Charles W., assignor to William T. Stead Memorial Center, Chicago, Ill. Automatograph. No. 1,340,529; May 18; v. 274; p. 486.
Davison, Harry, and W. R. Townsend, Shelbyville, Ind.; said Townsend assignor to said Davison. Heating and liquefying apparatus. No. 1,341,046; May 25; v. 274; p. 655.
Davison, Neville C., Edgeworth, Pa. Fuel-burner. No. 1,338,679; May 4; v. 274; p. 6.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,340,215; May 18; v. 274; p. 427.
Dawson, Charles, Paden City, W. Va. Glass-rolling apparatus. No. 1,341,547; May 25; v. 274; p. 752.
Dawson, James C., Webster Groves, Mo. Ledger. No. 1,340,157; May 18; v. 274; p. 416.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,340,701; May 18; v. 274; p. 519.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Temple. No. 1,340,879; May 25; v. 274; p. 623.
Day, William E., Pittsburgh, Pa. Connecting-rod bearing. No. 1,341,548; May 25; v. 274; p. 752.
Day, William H., Hounslow, London, England. Machine for molding tablets of compressed food and the like. No. 1,341,226; May 25; v. 274; p. 690.
Deam, Henry D., Benton Harbor, Mich. Salvaging apparatus. No. 1,338,816; May 4; v. 274; p. 31.
Dean, Clark A., assignor, by mesne assignments, to Shurnuff Manufacturing Company, St. Louis, Mo. Automobile-axle construction. No. 1,341,265; May 25; v. 274; p. 697.
Dean, James, New York, N. Y. Motor-driven vehicle. No. 1,338,680; May 4; v. 274; p. 6.
Dean, John, Racine, Wis. Tinning or soldering aluminum. No. 1,340,264; May 18; v. 274; p. 435.
Dean-Osgood, Henry J., Loughborough, assignor to H. W. Sullivan, London, England. Tumbler-switch. No. 1,339,171; May 4; v. 274; p. 96.
Dean, Vernie, Detroit, Mich. Hospital or sleeping garment. No. 1,340,381; May 18; v. 274; p. 458.
De Barros, Jose, Imperial, Calif. Nut-marking machine. No. 1,339,881; May 11; v. 274; p. 306.
De Boyrie, Eugène, Colonia El Sitio, Ermita, Cuba. Means for transporting harvested products. No. 1,341,042; May 25; v. 274; p. 654.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and making same. No. 1,340,702; May 18; v. 274; p. 519.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and method of and apparatus for making same. No. 1,340,703; May 18; v. 274; p. 519.
Dech, Henry, assignor to Mercer Tire Company, Trenton, N. J. Inner tube and making same. No. 1,340,704; May 18; v. 274; p. 519.
Deck, John F. A., Okmulgee, Okla. Knockdown clamp-tank. No. 1,341,549; May 25; v. 274; p. 752.
Decuir, Joseph O. (See Runyam, Benjamin F., assignor.)
Deemar, Henry V., St. Louis, Mo. Gas-burning apparatus. No. 1,341,266; May 25; v. 274; p. 697.
Deering, Julius H., Brainerd, Minn. Attachment for automobile-seats. No. 1,340,754; May 18; v. 274; p. 528.
Deeter, George C., Mechanicsburg, Pa. Metal alloy. No. 1,340,437; May 18; v. 274; p. 469.
De Felice, Carlo. (See Bonali, Frank, assignor.)
Delamotte, Leopold. (See Mauclaire, R., and Delamotte.)
De Lander, August J., Spokane, Wash. Nail-driving implement. No. 1,340,705; May 18; v. 274; p. 519.
Delano, James K., New York, N. Y. Power transmission. No. 1,339,258; May 4; v. 274; p. 112.
Delavan, Sophia E., Chicago, Ill., assignor to El Dorado Jones, New York, N. Y. Exhaust-muffler. No. 1,340,158; May 18; v. 274; p. 417.
Delco-Light Company, The. (See Kettering, Charles F., assignor.)

Delco-Light Company, The. (See Kittering, C. F., and Chryst, assignors.)
De Luca, Pasquale T., New York, N. Y. Cushion-heel for shoes. No. 1,338,817; May 4; v. 274; p. 31.
De Luxe Brush Company, The. (See Loeben, Gustave A., assignor.)
Demaine, George, Nogales, Ariz. Ore-separating machine. No. 1,339,056; May 4; v. 274; p. 76.
Demarmels, Peter, New York, N. Y., and A. Winkler, Bayonne, N. J. Wooden shoe or sandal. No. 1,341,498; May 25; v. 274; p. 743.
Demmler, Max A. (See Markmann, D. H., and Demmler.)
Dempsey, Thomas J., Corry, Pa. Surface trimming or planing machine. No. 1,339,172; May 4; v. 274; p. 97.
Deneau, William M., assignor of one-half to H. Paschen, Chicago, Ill. Life-preserver. No. 1,339,617; May 11; v. 274; p. 256.
Dennert, Edward C., Detroit, Mich. Radiator. No. 1,340,382; May 18; v. 274; p. 458.
Denning, Joseph M., Denver, Colo. Fence-machine. No. 1,340,530; May 18; v. 274; p. 486.
Dennington, Arthur R., East Orange, N. J., assignor to Westinghouse Lamp Company. Optical apparatus and operating same. No. 1,338,818; May 4; v. 274; p. 31.
De Normanville, Samuel A., Ealing, and L. H. Kent, Stanmore, England. Visual weather-screen. No. 1,340,025; May 11; v. 274; p. 333.
Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)
Depatie, Theophile, Montreal, Quebec, Canada. Building construction. No. 1,339,596; May 11; v. 274; p. 252.
Deranek, Joseph P., East St. Louis, Ill. Piston packing-ring. No. 1,340,650; May 18; v. 274; p. 509.
Derr, Charles E., Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting machine. No. 1,339,921; May 11; v. 274; p. 314.
Derr, William R., assignor of one-half to W. J. Lillie, New York, N. Y. Locking clothespin. No. 1,340,159; May 18; v. 274; p. 417.
Derringer, Stephen, Camden, N. J., assignor to Dietz Machine Works, Philadelphia, Pa. Tube-making machine. No. 1,340,706; May 18; v. 274; p. 519.
Desert Fibre Company. (See Holdaway, Hall H., assignor.)
Deshane, Albert W. Cosmopolis, Wash. Tie-holder. No. 1,340,755; May 18; v. 274; p. 528.
De St. Laurent, Eugene E. P. J. P. S. J., Twickenham, England, assignor to The Aluminum Solder Co. Limited. Manufacturing solder. No. 1,338,966; May 4; v. 274; p. 58.
Detroit Carrier and Manufacturing Company. (See Taylor, Huston, assignor.)
Detroit Closed Bushing Company. (See Temple, H. M., and Kearney, assignors.)
Detroit Stove Works. (See Mersfelder, William L., assignor.)
Detroit Stove Works. (See Schall, Henry D., assignor.)
De Vol, Thomas E., Belgrade, Nebr. Automatic dump-lock. No. 1,341,499; May 25; v. 274; p. 743.
De Vries, Herman D., Grand Rapids, Mich. Ornamenting wood. No. 1,339,259; May 4; v. 274; p. 112.
De Witt, W. J., *et al.* (See Lionne, Ernest, assignor.)
De Witt La France Co. (See La France, D. J., and De Witt, assignors.)
De Witt, William P. (See La France, D. J., and De Witt.)
Deutsch, Isidor, Avalon, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switch for electric circuits. No. 1,339,922; May 11; v. 274; p. 314.
Diamant, Sidney, New York, N. Y. Adenotome. No. 1,339,691; May 11; v. 274; p. 271.
Diamant, Sidney, New York, N. Y. Adenotome. No. 1,339,692; May 11; v. 274; p. 271.
Diamond, James E., assignor to The Aluminum Castings Company, Cleveland, Ohio. Internal-combustion engine. No. 1,341,227; May 25; v. 274; p. 690.
Diamond Match Company, The. (See Dixon, William H., assignor.)
Diamond Match Company, The. (See Pfersch, Clarence L., assignor.)
Diamond State Fibre Company. (See Bolduc, William H., assignor.)
Dianiska, John, Dayton, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Sewing-machine cabinet. No. 1,339,501; May 11; v. 274; p. 234.
Dickelman, Lizzie H., Forest Ohio. Grain-storage bin. No. 1,339,437; May 11; v. 274; p. 221.
Dickey, George C. (See Serwe, Philip L., assignor.)
Dickey, Walter S. (See Batliner, Carl, assignor.)
Dickey, Walter S. (See Minter, John E., assignor.)
Diehl Manufacturing Company. (See Marx, Gustave C., assignor.)
Diepenbrock, Joseph F., Chicago, Ill. System of shop control. No. 1,340,216; May 18; v. 274; p. 427.
Dietrich, Richard R., Baltimore, Md. Internal-explosive engine. No. 1,340,651; May 18; v. 274; p. 509.
Dietz, R. E., Company. (See Everett, Ernest C., assignor.)
Dietz Machine Works. (See Derringer, Stephen, assignor.)
Dillon, Alexander E., Halleyville, Okla. Repair apparatus for locomotives. No. 1,341,302; May 25; v. 274, p. 704.
Dilweg, Lloyd W., Milwaukee, Wis. Automobile-bumper. No. 1,340,867; May 18; v. 274; p. 549.
Dingwall, Nelson W. (See Holland, Joseph A., assignor.)
Dingwall, Nelson W., Mount Vernon, N. Y. Scraping-tool and the like. No. 1,341,047; May 25; v. 274; p. 655.
Dinsmoor, Winfield L., Oakland, Calif. Valve-grinder. No. 1,340,756; May 18; v. 274; p. 529.
Dinsmoor, Winfield L., San Francisco, Calif. Card-file. No. 1,340,757; May 18; v. 274; p. 529.
Dirienzo, John A. (See Dirienzo, Joseph M. and J. A.)
Dirienzo, Joseph M. and J. A., Madison, Wis. Inner tube. No. 1,339,948; May 11; v. 274; p. 319.
Diskin, Moses B., New York, N. Y. Article-register. No. 1,339,744; May 11; v. 274; p. 280.
Dissette, John W. (See Ranney, L., Dissette, and Tyrrell.)
Dittmar, Elmer C., Williamsport, Pa. Apparatus for coating and finishing flooring. No. 1,339,106; May 4; v. 274; p. 86.
Dittmar, Elmer C., Williamsport, Pa. Apparatus for coating and finishing flooring. No. 1,339,107; May 4; v. 274; p. 86.
Diuk, Phillip, St. Paul, Minn. Shoe-heel. No. 1,339,438; May 11; v. 274; p. 222.
Diver, Bertice M., Indianapolis, Ind. Automobile-body construction. No. 1,339,325; May 4; v. 274; p. 124.
Dixon, Amos F., and F. N. Reeves, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,340,940; May 25; v. 274; p. 634.
Dixon, David J., Tacoma, Wash. Cutter-head. No. 1,338,819; May 4; v. 274; p. 32.
Dixon, Henry C., Tulsa, Okla. Tailor's order-blank. No. 1,339,693; May 11; v. 274; p. 271.
Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,549; May 11; v. 274; p. 243.
Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,550; May 11; v. 274; p. 243.
Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,339,551; May 11; v. 274; p. 244.
Dixon, William H., London, England, assignor to The Diamond Match Company, Chicago, Ill. Match-ignition composition. No. 1,341,012; May 25; v. 274; p. 649.
Dobbins, Michael G., Philadelphia, assignor of one-third to F. H. Shaw, Norristown, and one-third to A. G. Craig, Philadelphia, Pa. Soap-bubble device. No. 1,340,758; May 18; v. 274; p. 529.
Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Apparatus for burning fuel. No. 1,340,383; May 18; v. 274; p. 458.
Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)
Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Valve-regulating means. No. 1,339,811; May 11; v. 274; p. 293.
Dobson, Daniel J., Greenlee Station, N. C. Machine for ballasting railway-tracks. No. 1,338,681; May 4; v. 274; p. 6.
Dodge Brothers. (See Duncan, James N., assignor.))
Doehler Die Casting Company. (See Gruss, A. G., and Geyer, assignors.)
Dohner, Burt E., and A. J. Huff, Dayton, Ohio. Roller-bearing. No. 1,340,941; May 25; v. 274; p. 634.
Doman, Herman C., Oshkosh, Wis., assignor, by mesne assignments to F. Novotny and J. Kastohryz. Driving mechanism for washing-machines. No. 1,340,329; May 18; v. 274; p. 448.
Dorman, John H., New York, N. Y. Jack. No. 1,338,682; May 4; v. 274; p. 6.
Dorr Company, The. (See Peck, Charles L., assignor.)
Dottl, Joseph, and H. G. Hart, Madison, Wis. Support. No. 1,341,113; May 25; v. 274; p. 668.
Doughty, Edgar S., Red Wing, Minn. Amusement apparatus. No. 1,339,502; May 11; v. 274; p. 234.
Douglas, Harry A., Bronson, Mich. Electrical conductor. No. 1,339,694; May 11; v. 274; p. 271.
Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Reflecting-lamp. No. 1,339,695; May 11; v. 274; p. 271.
Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)
Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)
Douglass, Harry B., Detroit, Mich. Gage. No. 1,339,384; May 11; v. 274; p. 211.
Douledes, Christ, Schenectady, N. Y. Condiment-holder. No. 1,339,173; May 4; v. 274; p. 97.
Dove, Alice B. (See Greenwood, Oliver P., assignor.)
Dovener, William N., Washington, D. C. Change-counter. No. 1,338,683; May 4; v. 274; p. 7.
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Plastic composition. No. 1,339,552; May 11; v. 274; p. 244.
Downey, Richard F., Milwaukee, assignor of one-half to H. Schreier, Sheboygan, Wis. Ball game. No. 1,339,846; May 11; v. 274; p. 300.
Downing, John W., Rockford, Ill. Card-index system. No. 1,340,384; May 18; v. 274; p. 458.
Downing, Virgil L., assignor to Winther Motor Truck Company, Kenosha, Wis. Wheel. No. 1,339,439; May 11; v. 274; p. 222.

Downs, Charles, R. A. Bellwood, Kingston-upon-Hull, and T. W. Turnill, Cottingham, near Kingston-upon-Hull, England. Extracting oil from vegetable seeds, nuts, and the like. No. 1,338,909; May 4; v. 274; p. 48.

Dows, Chester L. (See Blair, F. P., Dows, and Merrill.)

Doyle, William J., and J. J. Wollenbaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Hot-air furnace. No. 1,340,134; May 11; v. 274; p. 355.

Drange, Carl E. (See Scott, D. J., and Drange.)

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper Corporation. (See Rolen, John P., assignor.)

Draper Corporation. (See Taranto, John, assignor.)

Dresch, Israel J., Toledo, Ohio. Dental-plate attachment. No. 1,339,812; May 11; v. 274; p. 293.

Drevet, Emile, Montreal, Quebec, Canada. Water-heater. No. 1,341,048; May 25; v. 274; p. 656.

Drews, Frank, Willmar, Minn. Manually-operated rotary device. No. 1,340,026; May 11; v. 274; p. 333.

Dreyfus, Henry, London, England. Manufacture of acetic anhydrid. No. 1,338,979; May 4; v. 274; p. 60.

Dreyfus, Sylvain. (See Galsman, Lucien, assignor.)

Duff, Frank C. (See Toll, H, H., and Duff.)

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Duff, Michael J., assignor to The Moo-V Doll Manufacturing Company, Bridgeport, Conn. Doll. No. 1,340,160; May 18; v. 274; p. 417.

Duffey, Edward. (See Thompson, Joseph W., assignor.)

Duffy, Charles H., Chevy Chase, Md. Spark-plug. (Reissue.) No. 14,862; May 25; v. 274; p. 767.

Duffy, Clarence O., Dallas, Tex. Producing tire-patch material. No. 1,339,696; May 11; v. 274; p. 272.

Duggan, Charles E., Los Angeles, Calif. Trunk and suit-case fastener. No. 1,339,174; May 4; v. 274; p. 97.

Dunaway, William S., Carmel, Calif. Combination-brush. No. 1,339,745; May 11; v. 274; p. 280.

Dunbar, Howard W., A. Turner, and G. H. Smith, assignors, by mesne assignments, to Norton Company, Worcester, Mass. Cam-grinding apparatus. No. 1,339,746; May 11; v. 274; p. 281.

Dunbar, Leon W., Worcester, Mass. Electromagnetic chuck. No. 1,339,553; May 11; v. 274; p. 244.

Duncan, George S., Jeffersonville, Ind. Front-wheel-drive mechanism. No. 1,340,759; May 18; v. 274; p. 529.

Duncan, James N., assignor to Dodge Brothers, Detroit, Mich. Automobile-support. No. 1,340,438; May 18; v. 274; p. 469.

Duncan, Levi H., Ben Avon, Pa. Valve-chest. No. 1,340,652; May 18; v. 274; p. 509.

Dunham, Bert G., Hawthorne, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Two-wire multiple automatic telephone system. No. 1,339,175; May 4; v. 274; p. 97.

Dunham, Charles W., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electroconducting-coil. No. 1,340,027; May 11; v. 274; p. 334.

Dunham Company, The. (See Griswold, R. H., and Hammond, assignors.)

Dunhill, Alfred, St. James, London, England. Tobacco-pipe. No. 1,341,418; May 25; v. 274; p. 727.

Duniap, Frederick L., Chicago, Ill., and R. A. Kuever, Iowa City, Iowa. Treating fruit-juices. No. 1,338,684; May 4; v. 274; p. 7.

Dunn, Frank P., Anderson, Ind., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,339,440; May 11; v. 274; p. 222.

Du Pont, E. I., de Nemours and Company. (See Caskey, Samuel S., assignor.)

Du Pont, E. I., de Nemours and Company. (See Connable, Frank L., assignor.)

Du Pont, Francis I., Wilmington, Del. Explosive propellent powder. No. 1,341,207; May 25; v. 274; p. 687.

Durable Box Co. (See Kenniker, N. O., and Fritze, assignors.)

Duresen, Andrew, Minneapolis, Minn. Two-wheeled motor-vehicle. No. 1,339,554; May 11; v. 274; p. 244.

Durham, Charles L., Salina, Kans. Tire-treating machine. No. 1,341,500; May 25; v. 274; p. 743.

Dustin, Edgar R. (See Buckle, John V., assignor.)

Dutton, Frederick O. (See Lewis, A. A., and Dutton.)

Dwyer, Joseph, Hamilton, Ontario, Canada. Miter-cutting device. No. 1,339,747; May 11; v. 274; p. 281.

Dyckman, Stephen W., New York, N. Y. Radiator. No. 1,339,813; May 11; v. 274; p. 293.

Dyer, John B. (See Hill, Hugh, assignor.)

Dyer, Leonard H., Greenwich, Conn. Internal-combustion engine. No. 1,339,176; May 4; v. 274; p. 97.

Dyer, Leonard H., Greenwich, Conn. Power plant. No. 1,339,177; May 4; v. 274; p. 97.

Dysart, Marby P., Huntington, Tex. Window attachment. No. 1,339,178; May 4; v. 274; p. 98.

Eagar, George, Dunboyne, Ontario, Canada. Gas-saver. No. 1,339,441; May 11; v. 274; p. 222.

Eaglesfield, Robert D. (See Gathman, M. B., and Eaglesfield.)

Eanes, Arthur R., Jr., Draper, N. C. Pick take-up shuttle. No. 1,338,820; May 4; v. 274; p. 32.

Earl, Charles M., Detroit, Mich. Sealing-valve for carbonated-beverage containers. No. 1,339,555; May 11; v. 274; p. 244.

Earl, Geo. G., *et al.* (See Wood, Albert B., assignor.)

Earl, Henry E., Indianapolis, Ind. Automatic weighing-scale. No. 1,339,326; May 4; v. 274; p. 124.

Earley, James A., Washington College, and J. L. Humphrey, Telford, Tenn. Apparatus for dismembering and assembling rolling-stock. No. 1,341,501; May 25; v. 274; p. 743.

Early, Chas. W. (See Barnes, Benie A., assignor.)

East, Charles M., Boyertown, Pa. Illuminating attachment for pens or pencils. No. 1,341,267; May 25; v. 274; p. 697.

Eastman Kodak Company. (See Barnes, Frederick W., assignor.)

Eastman Kodak Company. (See Becker, Joseph, assignor.)

Eastwood, Benjamin, Company. (See Zeedyk, William, assignor.)

Eaton, Joseph E., San Francisco, Calif. Airplane. No. 1,340,707; May 18; v. 274; p. 520.

Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 1,340,217; May 18; v. 274; p. 427.

Eberle, John A., St. Louis, Mo. Child's rocker. No. 1,341,303; May 25; v. 274; p. 705.

Eddy, J. G. (See Brandt, Matthew A., assignor.)

Edwards, Albert Y., Springfield, Ohio. Internal-combustion engine. No. 1,338,721; May 4; v. 274; p. 14.

Edmonds, Cleland J. (See Jacoby, S. E., and Edmonds.)

Edmondson, Warren L., Washington, D. C. Renewable cutting-tooth point. No. 1,340,385; May 18; v. 274; p. 459.

Edmonston, William L. (See Schoolfield, Lucille D., assignor.)

Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)

Edwards, George D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,340,942; May 25; v. 274; p. 635.

Een, John, Amherst, Wis. Poison-distributer. No. 1,339,556; May 11; v. 274; p. 244.

Egan, James J. (See Tabor, Edward P., assignor.)

Egeland, Peter O., assignor of one-half to B. F. Daniel, Akeley, Minn. Cement-mixer. No. 1,340,880; May 25; v. 274; p. 623.

Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone sets. No. 1,339,814; May 11; v. 274; p. 294.

Egts, Louie M., Atlanta, Ga. Pistol. No. 1,339,949; May 11; v. 274; p. 319.

Ehlers, Albert, *et al.* (See Randolph, Chester L., assignor.)

Ehrig, George B., Washington, D. C. Rotary toothbrush. No. 1,340,760; May 18; v. 274; p. 529.

Ehrlich, Leo, assignor of one-half to A. S. Partridge and one-half to A. Blair, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,339,748; May 11; v. 274; p. 281.

Eichhorn, Jacob C., Detroit, Mich. Storage-battery cell. No. 1,339,442; May 11; v. 274; p. 223.

Eickhoff, Theodore H., and O. V. Payne, Cleveland, Ohio, assignors to Auto-Ordnance Corporation, New York, N. Y. Breech-closure. No. 1,340,943; May 25; v. 274; p. 635.

Einstein, Robert E., St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla. Flange-frog. No. 1,339,597; May 11; v. 274; p. 253.

Einstein, Robert E., St. Louis, Mo., assignor to The American Flange Frog and Railway Improvement Company, Gainesville, Fla. Cast-metal flange-frog. No. 1,339,598; May 11; v. 274; p. 253.

Eisenstadt Manufacturing Company. (See Jacobs, Jacob A., assignor.)

Eisner, Max, and A. M. Freeman, Sioux Falls, S. D. Rotary toothbrush. No. 1,338,821; May 4; v. 274; p. 32.

Electric Boat Company. (See Gunn, Thomas M., assignor.)

Electric Controller & Manufacturing Company, The. (See Wright, Reuben L., assignor.) (Reissue.)

Electric Furnace Company, The. (See Baily, T. F., and Cope, assignors.)

Electric Phonograph Co. (See Shigley, Cyrus C., assignor.)

Electric Vulcanizing Rubber Company, The. (See Burke, Wilbur B., assignor.)

Electrical Engineers Equipment Company. (See Getts, Frank E., assignor.)

Eller, Orlando S. (See Vertunni, J., and Eller.)

Elliott, Cloa A., Marion, Ind. Screen-door brace. No. 1,340,161; May 18; v. 274; p. 417.

Ellis, Frank A., Jr., Denver, Colo. Rope-measuring device. No. 1,340,218; May 18; v. 274; p. 427.

Ellis, Hartley, Cleveland, Ohio. Metal barrel or receptacle. No. 1,341,304; May 25; v. 274; p. 705.

Elmen, George P., Lincoln, Nebr. Vibrator. No. 1,339,179; May 4; v. 274; p. 98.

Elrod, Benjamin S., Omaha, Nebr. Pin-dispenser. No. 1,339,503; May 11; v. 274; p. 234.

Elyria Iron and Steel Company. (See Copland, James P., assignor.)

Emco Manufacturing Company. (See Taber, George H., assignor.)

Emerson, William F., Buffalo, N. Y. Coaster-brake. No. 1,340,386; May 18; v. 274; p. 459.

Emmert, George W., assignor to The Clamert Manufacturing Company, Pittsburgh, Pa. License-plate holder. No. 1,340,387; May 18; v. 274; p. 459.

Empson, Frederick J., Sydney, New South Wales, Australia. Talking-machine. No. 1,340,531; May 18; v. 274; p. 486.

Enberg, John C., Skärsätra, Sweden. Calculating-machine. No. 1,341,049; May 25; v. 274; p. 656.

Enck, Walter B. (See Rose, H. B., and Enck.)

Engel, William C., assignor of one-third to E. L. Hohenstein and one-third to F. Schott, St. Louis, Mo. Lifting-jack. No. 1,341,305; May 25; v. 274; p. 705.

Engineering Products Corporation. (See Burlingham, William, assignor.)

England, Henry, Chicago, Ill. Fishing-tackle. No. 1,339,697; May 11; v. 274; p. 272.

Engle, Charles G., Jackson, Mich. Padlock. No. 1,341,169; May 25; v. 274; p. 679.

Enos, Richard E., Baltimore, Md. Shuttle tension. No. 1,340,330; May 18; v. 274; p. 448.

Enscoe, Curwin. (See Kelly, John C., assignor.)

Enterprise Manufacturing Company, The. (See Pflueger, Ernest A. and C. T., assignors.)

Enriquez, Magdalena de los S., New York, N. Y. Lady's garter. No. 1,338,858; May 4; v. 274; p. 39.

Enslin, Herbert E., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for lacing shoe-uppers. No. 1,338,910; May 4; v. 274; p. 48.

Entwistle, T. C., Company. (See Farrell, James E., assignor.)

Entz, Justus B., Cleveland, Ohio. Engine-starting and automobile-lighting system. No. 1,338,857; May 4; v. 274; p. 38.

Eppler, Andrew, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,339,645; May 11; v. 274; p. 262.

Erdoes, Julius, and E. Sas, assignors to The Metallograph Corporation, New York, N. Y. Napkin-ring. No. 1,339,180; May 4; v. 274; p. 98.

Erickson, John E., St. Paul, Minn. Device for use in changing tires. No. 1,339,504; May 11; v. 274; p. 235.

Erwin, James B. and O. R., Milwaukee, Wis. Apparatus for generating foam for extinguishing fires. No. 1,340,601; May 18; v. 274; p. 500.

Erwin, Jeremiah, Chicago, Ill. Fluid dispenser and spreader. No. 1,340,028; May 11; v. 274; p. 334.

Erwin, Orlando R. (See Erwin, James B. and O. R.)

Essex Motors. (See Fekete, Stephen I., assignor.)

Etablissements Continsouza, Société Anonyme. (See Figour, Maurice, assignor.)

Eustis, Augustus H., Milton, Mass. Recovering sulfur dioxid from gases. No. 1,341,114; May 25; v. 274; p. 668.

Eustis, Augustus H., Milton, Mass. Apparatus for recovering sulfur dioxid from gases. No. 1,341,115; May 25; v. 274; p. 668.

Evangelist, Dominick, New York, N. Y. Folding chair. No. 1,341,050; May 25; v. 274; p. 656.

Evans, George S., Corryong, near Towong, Victoria, Australia. Nut-locking device. No. 1,340,602; May 18; v. 274; p. 500.

Evans', John, Sons. (See Evans, William, assignor.)

Evans, William, Philadelphia, Pa., assignor to John Evans' Sons, Philadelphia, Pa. Machine for forming spring-eyes. No. 1,339,443; May 11; v. 274; p. 223.

Evaporating and Drying Machinery Company. (See Miller, John C., assignor.)

Everett, Ernest C., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 1,338,911; May 4; v. 274; p. 48.

Everett, John H. (See Christopher, Calvin F., assignor.)

Evers, William H. (See Pease, W. E., and Suloff, assignors.)

F. A. B. Manufacturing Co. (See Freitag, K. J. W., and Ainsworth, assignors.)

Fachman, Oswald, Lindsey, Ohio. Wire-wrapping tool. No. 1,340,029; May 11; v. 274; p. 334.

Fachnidrich, William, New York, N. Y. Cheese-cutting machine. No. 1,340,479; May 18; v. 274; p. 476.

Fahrenholz, Martin H., Norfolk, Nebr. Aerial torpedo. No. 1,339,181; May 4; v. 274; p. 98.

Fahrenwald, Frank A., assignor to The Rhotanium Company, Cleveland, Ohio. Composition of matter for platinum substitute in electrical terminals and other uses. No. 1,339,505; May 11; v. 274; p. 235.

Fairbanks, Morse & Co. (See Thompson, H. E., Lindsey, and Rix, assignors.)

Faix, John and S., San Francisco, Calif. Combination-tool. No. 1,339,698; May 11; v. 274; p. 272.

Faix, Samuel. (See Faix, John and S.)

Farmer, Frank H., assignor, by mesne assignments, to The White Motor Company, Cleveland, Ohio. Motor-truck construction. No. 1,341,306; May 25; v. 274; p. 705.

Farmer, James D., St. Louis, Mo. Valve-lock. No. 1,338,912; May 4; v. 274; p. 48.

Farnum, William C., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Cutter. No. 1,338,822; May 4; v. 274; p. 32.

Farrell, James E., New Bedford, assignor to T. C. Entwistle Company, Lowell, Mass. Pneumatic lint-clearer for warping-machines. No. 1,339,182; May 4; v. 274; p. 99.

Farup, Peder, assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Manufacture of titanium oxygen compounds. No. 1,341,307; May 25; v. 274; p. 705.

Faust, Levin, and E. B. Anderson, assignors to Mechanics Machine Company, Rockford, Ill. Automobile-locking device. No. 1,338,913; May 4; v. 274; p. 49.

Faust, Samuel D., Pittsburgh, Pa., assignor to International Gasolene Process Corporation. Apparatus for the distillation of oil. No. 1,340,532; May 18; v. 274; p. 486.

Feasey, George T., *et al.*, executors. (See Tyrer, Thomas.)

Feather, S., Company (See Hall, William R. D., assignor.)

Federal Telegraph Company. (See Fuller, Leonard F., assignor.)

Fedden, Albert H. R., *et al.* (See Butler, Leonard F. G., assignor.)

Fekete, Stephen I., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Cooling apparatus for internal-combustion engines. No. 1,338,722; May 4; v. 274; p. 14.

Fellows, Edwin R., Springfield, Vt. Gear-generating machine. No. 1,338,685; May 4; v. 274; p. 7.

Felthousen, John H., assignor to S. Morgan Smith Company, York, Pa. Turbine. No. 1,339,183; May 4; v. 274; p. 99.

Fennessy, John P., Providence, R. I. Snap-hook for tire-chains. No. 1,338,686; May 4; v. 274; p. 7.

Fernández, Francisco L., Habana, Cuba. Vehicle-wheel. No. 1,340,944; May 25; v. 274; p. 635.

Fernow, Bernard E., Jr., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetically-controlled brake. No. 1,338,980; May 4; v. 274; p. 61.

Ferguson, Manton M., Des Moines, Iowa. Picture hanger and hook remover. No. 1,339,444; May 11; v. 274; p. 223.

Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Solid wheel and tire. No. 1,341,308; May 25; v. 274; p. 705.

Ferriss, Edward, Carson Lake, Minn. Attachment for gas-engine radiators. No. 1,341,419; May 25; v. 274; p. 727.

Fesler, John A., Detroit, Mich. Lubricating apparatus. No. 1,341,420; May 25; v. 274; p. 728.

Fessler, Frank, Des Moines, Iowa. Opera-chair. No. 1,339,445; May 11; v. 274; p. 223.

Feuser, Conrad, Bloomfield, N. J. Radiator air-valve. No. 1,340,439; May 18; v. 274; p. 469.

Fiala, Anthony, U. S. Army. Silencer and flash-obscurer. No. 1,341,363; May 25; v. 274; p. 717.

Fiddyment, John C., Akron, Ohio. Tire-core-sawing machine. No. 1,339,815; May 11; v. 274; p. 294.

Fiddyment, John C., Akron, Ohio. Machine for finishing tire-molds. No. 1,339,816; May 11; v. 274; p. 294.

Fidler, Francis, Wigan, and J. G. Maxwell, London, England. Kiln. No. 1,341,550; May 25; v. 274; p. 753.

Fidrocki, Antoni B., Lynn, Mass. Permutation-lock. No. 1,339,446; May 11; v. 274; p. 223.

Fiege, Raymond G., Cleveland, Ohio. Automatic oiler. No. 1,338,914; May 4; v. 274; p. 49.

Field, Edward A., Jr., Grand Rapids, Mich., assignor of one-half to E. A. Field, Sr., Chicago, Ill. Internal-combustion engine. No. 1,339,447; May 11; v. 274; p. 224.

Field, Edward A., Sr. (See Field, Edward A., Jr., assignor.)

Figour, Maurice, assignor to Etablissements Continsouza, Société Anonyme, Paris, France. Star-wheel transmission. No. 1,338,823; May 4; v. 274; p. 32.

Figueron, Peter P., New York, N. Y. Display-exhibitor. No. 1,341,116; May 25; v. 274; p. 669.

Filbar Electric Heater, The. (See Smith, William H., assignor.)

Finley, Coleman, Dudley, Ill. Can-opener. No. 1,341,421; May 25; v. 274; p. 728.

Finley, Sam E., Atlanta, Ga. Treating roadways. No. 1,341,458; May 25; v. 274; p. 735.

Firestone, Adrian A., Cleveland, Ohio. Worm-gearing. No. 1,341,309; May 25; v. 274; p. 706.

Firsching, Joseph A., Utica, N. Y. Winding and dyeing machine and winding and dyeing yarn, thread, and the like. No. 1,339,184; May 4; v. 274; p. 99.

Fischer, Alexander T., Detroit, Mich. Device for oblique firing. No. 1,341,117; May 25; v. 274; p. 669.

Fischer, Frederik, New York, N. Y. Key-ring. No. 1,341,228; May 25; v. 274; p. 690.

Fischer, Howard L., assignor, by mesne assignments, of one-half to F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,340,331; May 18; v. 274; p. 448.

Fischer, Max, assignor to J. R. Geigy S. A., Basel, Switzerland. Making 2-aminoanthraquinone. No. 1,340,603; May 18; v. 274; p. 500.

Fiset, Antoine, Quebec, Quebec, Canada. Hay-press. No. 1,340,388; May 18; v. 274; p. 459.

Fisher, Carl, Bridgeport, Conn. Combined safety-pin and clasp. No. 1,340,533; May 18; v. 274; p. 486.

Fisher, Edwin J., New York, N. Y. Match-lighter. No. 1,339,185; May 4; v. 274; p. 99.

Fisk, James, Stratford, Calif. Beehive for raising queen bees. No. 1,341,364; May 25; v. 274; p. 717.

Fisk Rubber Company, The. (See Little, Thomas P., assignor.)

Fitch, Charles L., New York, N. Y. Hair-curler. No. 1,338,687; May 4; v. 274; p. 7.

Fite, Cephas V., and C. C. Coddington, Charlotte, N. C. Internal-combustion engine. No. 1,339,187; May 4; v. 274; p. 99.

Fitzpatrick, David, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Worm-grinding machine. No. 1,340,030; May 11; v. 274; p. 334.

Fitzpatrick, David, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Thread-grinder. No. 1,340,031; May 11; v. 274; p. 334.

Fitzpatrick, James R., Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Frost-casing. No. 1,340,332; May 18; v. 274; p. 448.

Fix, Albert P., Detroit, Mich. Combination end-gate and step for trailers. No. 1,340,761; May 18; v. 274; p. 529.

Fjellanger, Mikal, Hvalstad, near Christiania, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Fertilizer and manufacture of same. No. 1,340,708; May 18; v. 274; p. 520.

Flagstad, Cornell, assignor of forty-five per cent. to H. Thorsgard and K. Thorsgard and ten per cent. to A. Markoe, Minneapolis, Minn. Draft-creating device. No. 1,340,865; May 18; v. 274; p. 549.

Flechter, L. V., & Company. (See Kline, James A., assignor.)

Flegal, Forrest G., assignor to The Savage Tire Company, San Diego, Calif. Means for treating vehicle-tires during vulcanizing. No. 1,340,440; May 18; v. 274; p. 469.

Fleisher, Walter L. (See Lissauer, A. W., Fleisher, and Keyes.)

Fleming, James R., Scranton, Pa. Axle reconstruction. No. 1,340,032; May 11; v. 274; p. 335.

Flemming, Edward L., Easton, Pa. Adjustable shade-roller. No. 1,341,051; May 25; v. 274; p. 656.

Flintkote Company, The. (See Overbury, Frederick C., assignor.)

Flintkote Company, The. (See Rahr, Chester E., assignor.)

Floyd, Charles W., Walnut Cove, N. C., assignor of one-fourth to L. A. Clark, Roanoke, Va. Collapsible hogshead or barrel. No. 1,339,749; May 11; v. 274; p. 281.

Fogg, Newell T., Melrose, Mass. Belt. No. 1,338,859; May 4; v. 274; p. 39.

Fogg, Newell T., Melrose, Mass. Hockey-stick. No. 1,338,860; May 4; v. 274; p. 39.

Fogh, Viggo, Miles City, Mont. Harrow. No. 1,341,365; May 25; v. 274; p. 717.

Foister, John L., assignor of one-half to W. S. Roberson, Chapel Hill, N. C. Valve. No. 1,339,750; May 11; v. 274; p. 282.

Fojtik, Peter, Fayetteville, Tex. Stovepipe-cap. No. 1,340,032; May 11; v. 274; p. 335.

Folk, Joseph, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,340,219; May 18; v. 274; p. 427.

Ford, Silas M., St. Paul, Minn. Manufacturing prepared roofing. No. 1,339,327; May 4; v. 274; p. 125.

Foreman, Amos L., Baltimore, Md., assignor to Foremans Systems, Incorporated, Wilmington, Del. Bottle-crate. No. 1,340,881; May 25; v. 274; p. 623.

Foremans Systems, Incorporated. (See Foreman, Amos L., assignor.)

Forsberg, Marcus. (See Forsberg, William, assignor.)

Forsberg, William, assignor of one-half to M. Forsberg, New York, N. Y. Motor control for sewing-machines. No. 1,339,817; May 11; v. 274; p. 294.

Forsman, Viktor and E. Danielson, Detroit, Mich. Bushing-holder. No. 1,339,448; May 11; v. 274; p. 224.

Forse, Lyndall, assignor of one-third to T. Thring and one-third to R. J. Luffman, Yeovil, Somerset, England. Manufacture of Mocha leather. No. 1,339,751; May 11; v. 274; p. 282.

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective means for distributing systems. No. 1,339,923; May 11; v. 274; p. 314.

Fosberg, Henry C., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y. File-box. No. 1,340,034; May 11; v. 274; p. 335.

Fosberg, Henry C., assignor to Art Metal Construction Company, Inc., Jamestown, N. Y. File-box and follower. No. 1,340,035; May 11; v. 274; p. 335.

Foss, Antonius, and B. F. Halvorsen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Metallurgical process. No. 1,340,480; May 18; v. 274; p. 477.

Foss, Ludvig T., Sandefjord, Norway. Motion-registering apparatus. No. 1,340,036; May 11; v. 274; p. 335.

Fosston, Axel A., assignor to Seal-Tite Piston Ring Company, Minneapolis, Minn. Making piston-rings. No. 1,340,037; May 11; v. 274; p. 335.

Foster, Henry J., and E. Gruenfeldt, assignors to Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal wheel. No. 1,340,220; May 18; v. 274; p. 428.

Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Rim-fastening means. No. 1,341,118; May 25; v. 274; p. 669.

Foulder, Henry B., Brooklyn, assignor to J. P. Curry M'f'g Co., Inc., New York, N. Y. Tool for twisting wire ties. No. 1,341,459; May 25; v. 274; p. 736.

Fountain Toothbrushes Limited. (See Grace, Walter, assignor.)

Fournier, Fred, San Francisco, Calif. Reversible window. No. 1,341,366; May 25; v. 274; p. 717.

Fowler, Charles, Watseka, Ill. Deflector. No. 1,338,824; May 4; v. 274; p. 32.

Fowler, John T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizer. No. 1,339,950; May 11; v. 274; p. 319.

Fox, John H. (See Turnbull, C. W., and Fox.)

Fox, Ralph, Wooster, Ohio. Folding ironing-board. No. 1,340,265; May 18; v. 274; p. 436.

Foxboro Company, The. (See Bristol, Edgar H., assignor.)

Frame, Robert N., Buffalo, N. Y. Bookmarker. No. 1,338,861; May 4; v. 274; p. 39.

France, George R., Waycross, Ga. Locomotive driving-gear. No. 1,340,762; May 18; v. 274; p. 530.

France, John A., Sault Ste. Marie, Mich. Hay-cocking machine. No. 1,340,763; May 18; v. 274; p. 530.

France, Merle C., Cleveland, Ohio. Safety control for power-presses and the like. No. 1,340,333; May 18; v. 274; p. 448.

Francis, Daniel H., Detroit, Mich. Valve construction. No. 1,340,481; May 18; v. 274; p. 477.

Frank, Harry J. L. and L. H., assignors to Mutual Electric & Machine Company, Detroit, Mich. Starting-switch for motors. No. 1,338,825; May 4; v. 274; p. 32.

Frank, Henry. (See Yarnell, J. B., and Frank.)

Frank, Leon H. (See Frank, Harry J. L. and L. H.)

Franz, John W., assignor of one-half to C. A. Marien, St. Louis, Mo. Automobile-radiator. No. 1,339,752; May 11; v. 274; p. 282.

Fraser, Joseph A., assignor to La Salle Institute, Glencoe, Mo. Automatic strainer and can-filler. No. 1,341,119; May 25; v. 274; p. 669.

Frecska, Julius, assignor of one-half to Z. Frecska, Amsterdam, Ohio. Aerial torpedo. No. 1,339,188; May 4; v. 274; p. 100.

Frecska, Zigmond. (See Frecska, Julius and Z.)

Freedman, William, Brooklyn, N. Y. Garment. No. 1,341,120; May 25; v. 274; p. 669.

Freeman, Albert M. (See Elsner, M., and Freeman.)

Freeman, Rufus A., Flushing, N. Y. Making articles from sheet-rubber. No. 1,340,882; May 25; v. 274; p. 623.

Freeman, Rufus A., Flushing, N. Y., assignor to I. B. Kleinert Rubber Company. Method of and apparatus for making rubber articles. No. 1,340,883; May 25; v. 274; p. 623.

Freeman, Rufus A., Flushing, N. Y. Machine for making sheet-rubber articles. No. 1,340,884; May 25; v. 274; p. 624.

Freije, Alexander T. (See Cook, T. E., and Freije.)

Frensdorf, Herman R., Gibbs City, Mich. Fishing-tackle. No. 1,339,189; May 4; v. 274; p. 100.

Freitag, Knud, J. W. and H. D. Ainsworth, assignors to F. A. B. Manufacturing Co., San Francisco, Calif. Pump overflow-pan. No. 1,340,534; May 18; v. 274; p. 487.

Frey, John C., Middletown, N. Y., assignor to Ideal Wrapping Machine Company. Conveyer-belt. No. 1,339,646; May 11; v. 274; p. 262.

Frias, Ricardo. (See Canale, M. A., and Frias.)

Friedline, Frederick L., Kentland, Ind. Corn-picker. No. 1,338,723; May 4; v. 274; p. 14.

Fries, Edward A. (See Randall, L. L., and Fries.)

Frisbie, Ray A., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Adjustable lamp-support for motor-vehicles. No. 1,339,449; May 11; v. 274; p. 224.

Frissell, Frank H. (See Krenz, Rudolph, assignor.)

Fritze, Ferdinand A., Jr. (See Kenniker, N. O., and Fritze.)

Fromuth, August G., Philadelphia, Pa., assignor to Alva Carpet & Rug Company. Pile fabric and yarn and making. No. 1,339,753; May 11; v. 274; p. 282.

Fry, H. C., Glass Company. (See Williams, Warren S., assignor.)

Frykman, Oscar, Monessen, Pa. Gas-turbine. No. 1,341,229; May 25; v. 274; p. 691.

Fuhrmann, Warren. (See Soderstrom, O., and Fuhrmann.)

Fulda, Edward, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Manufacturing metal-spoke wheels. No. 1,340,945; May 25; v. 274; p. 635.

Fuller, Alstyn. (See Gibson, B. and Fuller.)

Fuller, Charles H., assignor to Fuller Davit Company, Portland, Oreg. Boat-launching apparatus. No. 1,339,647; May 11; v. 274; p. 262.

Fuller Davit Company. (See Fuller, Charles H., assignor.)

Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Multiple-ticket-issuing register. No. 1,340,221; May 18; v. 274; p. 428.

Fuller, George F. Worcester, Mass. Method and apparatus for controlling furnace temperature. No. 1,339,190; May 4; v. 274; p. 100.

Fuller, Lawrence C., Kalamazoo, Mich. Disk-clutch. No. 1,340,885; May 25; v. 274; p. 624.

Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,339,191; May 4; v. 274; p. 100.

Fuller, Lexie L., Pine Bluff, Ark. Time-controlled switch. No. 1,340,039; May 11; v. 274; p. 336.

Fuller, Louis F., Girard, Kans. Automobile attachment. No. 1,338,915; May 4; v. 274; p. 49.

Fulname Company, The. (See Lyon, Jesse D., assignor.)

Fulton Company, The. (See Fulton, Weston M., assignor.)

Fulton Iron Works Company. (See Hurter, Henry, assignor.)

Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Humidifying device. No. 1,338,916; May 4; v. 274; p. 49.

Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Means for attaching handles to valve-stems. No. 1,340,604; May 18; v. 274; p. 500.

Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Toe-softener. No. 1,340,825; May 18; v. 274; p. 541.

Gabriel, Antuony. (See Pogany, Alfred, assignor.)

Gadbois, Paul, St. Paul, Minn. Pushcart. No. 1,341,013; May 25; v. 274; p. 649.

Gahl, Rudolf, Miami, Ariz. Ore leaching and settling artificial building-stone with outer and inner, vertical tank. No. 1,341,208; May 25; v. 274; p. 687.

Gaillard, Ella N., New York, N. Y. Hook and eye. No. 1,340,334; May 18; v. 274; p. 449.

Gainer, Frank J. (See Holland, W. W., and Gainer.)

Gaisman, Lucien, assignor of one-half to S. Dreyfus, Manchester, England. Guard for rubber-mills and like machines. No. 1,341,422; May 25; v. 274; p. 728.

Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Reverse-phase relay for use in connection with polyphase alternating-current circuits. No. 1,339,192; May 4; v. 274; p. 100.

Gale, Francis G., Waterville, Quebec, Canada. Chain. No. 1,341,052; May 25; v. 274; p. 657.

Gallegullios, Naviglio B., Philadelphia, Pa. Drinking utensil. No. 1,340,886; May 25; v. 274; p. 624.

Galopin, Henri, Melbourne, Victoria, Australia. Household-lamp. No. 1,339,699; May 11; v. 274; p. 272.

Garcin, Edward H., New York, N. Y. Treating asbestos. No. 1,340,535; May 18; v. 274; p. 487.

Gardner, Charles F. (See Cartwright, Ernest O., assignor.)

Gardner, Charles J., Santa Ana, Calif. Harvester. No. 1,339,924; May 11; v. 274; p. 314.

Gardner, William Broomhill, Glasgow, Scotland. Sheet-metal boat or other vessel. No. 1,340,441; May 18; v. 274; p. 470.

Garlock, John. (See Kinney, Thaddeus, assignor.)

Garner, Herman H. (See Naftel, P. F., and Garner.)

Garren, George S., Oak Park, assignor to Sargent Company, Chicago, Ill. Gasket. No. 1,339,599; May 11; v. 274; p. 253.

Garst, Charles M., Independence, Mo. Paint-bucket hanger. No. 1,339,025; May 4; v. 274; p. 69.

Gasser, Joseph, Trenton, N. J. Brush. No. 1,340,040; May 11; v. 274; p. 336.

Gates, Charles C., assignor to The Gates Rubber Company, Denver, Colo. Pneumatic tire. No. 1,339,951; May 11; v. 274; p. 320.

Gates, Charles C., assignor to The Gates Rubber Company, Denver, Colo. Applying repair-tires to worn casings. No. 1,341,121; May 25; v. 274; p. 669.

Gates Rubber Company, The. (See Gates, Charles C., assignor.)

Gathman, Monte B., Shelbyville, and R. D. Englesfield, said Gathman assignor to A. Vonnegut, Indianapolis, Ind. Spindle adjustment for motor-driven molders. No. 1,340,709; May 18; v. 274; p. 520.

Gathmann, Emil, Baltimore, Md. Detonator for high-explosive shells. No. 1,340,536; May 18; v. 274; p. 487.

Gauslin, Anthony. (See White, W. M., and Gauslin.)

Gay, George L., assignor of one-half to F. Whittmann, Philadelphia, Pa. Portable baker's oven. No. 1,340,946; May 25; v. 274; p. 636.

Gazzi, Peter, Chicago Heights, Ill. Latch. No. 1,340,605; May 18; v. 274; p. 501.

Gegenheimer, Ralph E., and M. Mauran, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works (Inc.), Providence, R. I. Making sulfur chlorid. No. 1,341,423; May 25; v. 274; p. 728.

Gehl, Henry M. (See Gehl, M. L., Merriam, and Gehl.)

Gehl, Michael L., A. L. Merriam, and H. M. Gehl, West Bend, Wis. Mixer. No. 1,340,947; May 25; v. 274; p. 636.

Gehrke, Robert H., Libby, Mont. Press. No. 1,339,193; May 4; v. 274; p. 100.

Geigy, J. R., S. A. (See Fischer, Max, assignor.)

Gelke, Henry, Brooklyn, N. Y. Lining for refrigerators. No. 1,339,328; May 4; v. 274; p. 125.

General Abrasive Company. (See Chapman, Charles H., assignor.)

General Chain Company. (See Weinacker, Hermann, assignor.)

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Bergman, Sven R., assignor.)

General Electric Company. (See Branson, Edward H., assignor.)

General Electric Company. (See Carver, James H., assignor.)

General Electric Company. (See Lum, Walter O., assignor.)

General Electric Company. (See Macloskie, George, assignor.)

General Electric Company. (See Traver, Oliver C., assignor.)

General Electric Company. (See Troy, Matthew O., assignor.)

General Electric Company. (See Wedmore, Edmund B., assignor.)

General Electric Company. (See Winter, Fred H., assignor.)

General Electric Company. (See Wright, Daniel K., assignor.)

General Indurating Corporation. (See Lander, Wintworth V., assignor.)

General Motors Corporation. (See Frisbie, Ray A., assignor.)

General Motors Corporation. (See Stranahan, Samuel A., assignor.)

Genung, Benjamin W., Ulysses, Pa. Jar-lifter. No. 1,341,502; May 25; v. 274; p. 744.

George, Eleanor V., New York, N. Y. Apparatus for cleaning phonograph-records. No. 1,339,700; May 11; v. 274; p. 272.

George, Harry F., Chicago, Ill. Steering-gear lock for automobiles. No. 1,339,329; May 4; v. 274; p. 125.

Gerli, Paul, and O. A. Ross, New York, N. Y. Range-finding and sighting instrument. No. 1,339,450; May 11; v. 274; p. 224.

Germer Stove Company. (See Ball, Arlington L., assignor.)

Getts, Frank E., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Locking-switch. No. 1,339,506; May 11; v. 274; p. 235.

Geyer, Philip. (See Gruss, A. G., and Geyer.)

Ghijsen, Hulbert C., assignor to N. V. Vitrite Works, Middelburg, Netherlands. Manufacturing and adjustment of contact-plates in Swan-lamp bases. No. 1,340,041; May 11; v. 274; p. 336.

Gibson, Benjamin, and A. Fuller, Hill City, Kans. Silobrace. No. 1,339,701; May 11; v. 274; p. 273.

Gibson, F. I. (See Shuey, Philip McG., assignor.)

Gibson, Freeman I., Savannah, Ga. Apparatus and process for the continuous distillation of liquids. No. 1,340,653; May 18; v. 274; p. 510.

Gibson, Marshal D., Webster Groves, Mo. Washing-machine. No. 1,339,818; May 11; v. 274; p. 294.

Gibson, William E. F., and J. M. James, Port Coquitlam, British Columbia, Canada. Automobile-signal. No. 1,340,537; May 18; v. 274; p. 487.

Gidley, Nicholas M., Oxford, Ala. Automatic mill-stop. No. 1,341,268; May 25; v. 274; p. 698.

Giglio, John, New York, N. Y. Piano-pedal. No. 1,340,162; May 18; v. 274; p. 417.

Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)

Gilbert, George A., Brewster, and G. H. Stephens, assignors of one-third to D. M. Stephens, Patterson, N. Y. Carstep. No. 1,341,310; May 25; v. 274; p. 706.

Gilbert, William W. Santa Ana, Calif. Pattern for cutting half-soles. No. 1,339,702; May 11; v. 274; p. 273.

Giles, Arch C., Hanceville, Ala. Well-curb. No. 1,341,551; May 25; v. 274; p. 753.

Gill, George W., Battle Creek, Mich. Car-coupling. No. 1,340,538; May 18; v. 274; p. 488.

Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,340,135; May 11; v. 274; p. 355.

Gilmore, Willis B., Idaho Springs, Colo. Animal-trap. No. 1,340,442; May 18; v. 274; p. 470.

Gilmour, William H., St. Landry, La. Sawmill attachment. No. 1,340,042; May 11; v. 274; p. 336.

Gilson, Bert D., Chicago, Ill. Motor-pump attachment. No. 1,340,389; May 18; v. 274; p. 459.

Givens, Glenn G., Newport News, Va. Comb. No. 1,340,948; May 25; v. 274; p. 636.

Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Pyrometer. No. 1,339,952; May 11; v. 274; p. 320.

Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 1,340,443; May 18; v. 274; p. 470.

Gleason, James E., trustee. (See Derr, Charles E., assignor.)

Gledhill, Arthur H., Halifax, England. Apparatus for releasing bodies from aircraft. No. 1,338,724; May 4; v. 274; p. 14.

Glenn, James H. (See Collins, F. M., and Glenn.)

Glines, Frederick S., Lynn, assignor to L. Muther, Newton, Mass. Machine for applying adhesive. No. 1,341,311; May 25; v. 274; p. 706.

Glines, Frederick S., Lynn, assignor to L. Muther, Newton, Mass. Gage for perforating-machines. No. 1,341,312; May 25; v. 274; p. 706.

Glynn, Stephen A., Antigo, Wis. Button. No. 1,340,390; May 18; v. 274; p. 460.

Godchaux, Herbert, Dallas, Tex. Overalls. No. 1,341,313; May 25; v. 274; p. 706.

Goddard, Robert H., Worcester, Mass. Magazine-rocket. No. 1,341,053; May 25; v. 274; p. 657.

Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,340,163; May 18; v. 274; p. 417.

Goelkel, Rinaldo A., New York, N. Y. Eyeglass case and cleaning device. No. 1,339,330; May 4; v. 274; p. 125.

Goertz, August & Co. (See vom Eigen, Benno.)

Goff, Frank, Camden, N. J. Controller for electropneumatic brake apparatus. No. 1,339,754; May 11; v. 274; p. 282.

Goff, William F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Centering-ring for tire-beads. No. 1,339,451; May 11; v. 274; p. 224.
Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic valve. No. 1,339,057; May 4; v. 274; p. 76.
Goldberg, Nathan E., New York, N. Y. Deposit-slip. No. 1,339,331; May 4; v. 274; p. 125.
Goldberg, Samuel. (See Ingram, H. G., and Goldberg.)
Golden, Joseph A., New York, N. Y. Motion-picture camera. No. 1,340,539; May 18; v. 274; p. 478.
Goldfaden, Samuel, New York, N. Y. Rimmed eyeglasses and spectacles. No. 1,341,503; May 25; v. 274; p. 744.
Goldschmidt, Hans, and K. Müller, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Zinc alloy. No. 1,338,826; May 4; v. 274; p. 33.
Golloher, Charles H., Bellville, Tex. Discharge device for cotton-seed unloaders. No. 1,340,164; May 18; v. 274; p. 418.
Gonzalez, Hugh F. (See Saltmarsh, T. W., and Gonzalez.)
Good, Samuel S., Jenkintown, Pa. Sanitary hen's nest. No. 1,338,725; May 4; v. 274; p. 14.
Goodfellow, Willard J., Bentley Springs, Md. Making cigar-wrappers. No. 1,338,827; May 4; v. 274; p. 33.
Goodlett, Edgar N., Chicago, Ill., assignor to Monolithic Machine Company. Vibrator. No. 1,340,860; May 18; v. 274; p. 548.
Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
Goodrich, B. F., Company, The. (See Goff, William F., assignor.)
Goodrich, B. F., Company, The. (See Pierce, Robert C., assignor.)
Goodrich, Chauncey M., U. S. Army. Building unit. No. 1,340,949; May 25; v. 274; p. 636.
Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain. No. 1,340,765; May 18; v. 274; p. 530.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug. No. 1,340,856; May 18; v. 274; p. 547.
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
Gordon, David D., Chicago, Ill. Plural socket. No. 1,341,054; May 25; v. 274; p. 657.
Gordon, Henry L. (See Brunelle, Arthur, assignor.)
Gordon, James F., Toledo, Ohio. Kinetoscopic shutter. No. 1,340,887; May 25; v. 274; p. 624.
Gordon, John, New York, N. Y. Separating and extracting zirconium oxid (zirconia) from ores and minerals. No. 1,340,888; May 25; v. 274; p. 625.
Gore, Frederick W., Huntington, N. Y. Ship's-hull construction. No. 1,339,755; May 11; v. 274; p. 283.
Gorham, Edwin T., assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Dressing-tool for grinding-wheels. No. 1,339,452; May 11; v. 274; p. 225.
Gorr, Wallace H., Milwaukee, Wis. Lock-nut. No. 1,338,862; May 4; v. 274; p. 39.
Goss, Jeff D., Lake City, Fla. Fishing-net. No. 1,341,552; May 25; v. 274; p. 753.
Goss Printing Press Company. (See Walser, Joseph J., assignor.)
Goudie, John N., Hunters Quay, Scotland. Luffing mechanism for jib-cranes. No. 1,338,726; May 4; v. 274; p. 14.
Gould Coupler Co. (See Davis, Donald C., assignor.)
Graff, Clemens, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cartridge for chemical fire-extinguishers. No. 1,338,828; May 4; v. 274; p. 33.
Graamans, Christiaan A. R., assignor to Syndicaat Graamans Patent, Rotterdam, Netherlands. Galvanic cell. No. 1,340,222; May 18; v. 274; p. 428.
Grabowski, John, Baltimore, Md. Horseshoe. No. 1,340,764; May 18; v. 274; p. 530.
Grace, John F., Kearney, N. J., assignor to Worthington Pump and Machinery Corporation. Condenser system and vacuum-pump. No. 1,340,165; May 18; v. 274; p. 418.
Grace, Walter, assignor to Fountain Toothbrushes Limited, Auckland, New Zealand. Fountain-brush. No. 1,340,043; May 11; v. 274; p. 337.
Graef, Forrest J. (See Skerl, F., and Graef.)
Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Making spoke-nipples. No. 1,340,166; May 18; v. 274; p. 418.
Graham, Oliver B., Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordnance Corporation, New York, N. Y. Breech-closure. No. 1,340,891; May 25; v. 274; p. 625.
Graham, Wallace A., Gore, New Zealand. Friction braking means for cinematograph-film spools. No. 1,340,710; May 18; v. 274; p. 520.
Graiver, Charles, New York, N. Y. String for musical instruments. No. 1,339,953; May 11; v. 274; p. 320.
Grammich, Frank, Brooklyn, N. Y. Holder for disk records. No. 1,339,194; May 4; v. 274; p. 101.
Granade, Frank H., *et al.* (See Stimpson, Gordon G., assignor.)
Granger, Frank B., assignor to Hall Borchert Dress Form Company, New York, N. Y. Dress-form. No. 1,340,950; May 25; v. 274; p. 636.
Grant, Alexander W., Montreal, Quebec, Canada. Mop. No. 1,339,925; May 11; v. 274; p. 315.
Granville, R. Gordon. (See Jarman, Alfred R., assignor.)
Granzow, Carl A. and H. M., Dayton, Ohio. Power-transmission mechanism. No. 1,338,767; May 4; v. 274; p. 22.
Granzow, Henry M. (See Granzow, Carl A. and H. M.)
Grasselli Chemical Company, The. (See Taylor, Edward A., assignor.)
Grasser, Joseph, Netstal, Switzerland. Apparatus for steaming fabrics. No. 1,340,482; May 18; v. 274; p. 477.
Grawcour, Henry I. (See Luke, Frederick, assignor.)
Gray, James H., New York, N. Y. Smelting tin and other ores. No. 1,340,951; May 25; v. 274; p. 636.
Gray, Thomas T., Elizabeth, N. J. Treating petroleum hydrocarbons. No. 1,340,889; May 25; v. 274; p. 625.
Green Engineering Company. (See Livensparger, David A., assignor.)
Green, George L. (See Morley, H. J., and Green.)
Green, Harry E., St. John, New Brunswick, Canada. Support for pictures, plaques, and similar articles. No. 1,339,703; May 11; v. 274; p. 273.
Green, Henry M., Kansas City, Mo. Sand-screen for pumps. No. 1,338,829; May 4; v. 274; p. 33.
Greenawalt, William E., Denver, Colo. Electrolytic process. No. 1,340,826; May 18; v. 274; p. 542.
Greene, J. A. (See Willis, Joseph H., assignor.)
Greenleaf, George S., Chicago, Ill. Bed-bottom structure. No. 1,340,540; May 18; v. 274; p. 488.
Greenly, Arthur J., London, England. Power control for aeronautical machines and the like. No. 1,339,332; May 4; v. 274; p. 126.
Greenwald, Jacob, New York, N. Y. Combination hanger and frame-protector. No. 1,340,711; May 18; v. 274; p. 520.
Greenwood, Oliver P., Billerica, assignor, by mesne assignments, to A. B. Dove, Andover, Mass. Distributing-machine. No. 1,339,557; May 11; v. 274; p. 244.
Gresham, William S., Richland, Mo. Fencepost. No. 1,339,819; May 11; v. 274; p. 295.
Gretencord, Edward J., Ottawa, Ill. Sheller-drag. No. 1,338,727; May 4; v. 274; p. 15.
Griesbaum, Erwin, St. Louis, Mo. Air-pump. No. 1,341,460; May 25; v. 274; p. 736.
Griffin, William G. (See Davis, G. H., and Griffin.)
Grimes, Elias O., Jr., Westminster, and O. F. Baltzley, Hagerstown, assignors to The Liberty Tool Company, Baltimore, Md. Staybolt-heading attachment for pneumatic hammers. No. 1,339,453; May 11; v. 274; p. 225.
Grings, Casper H., Waterloo, Iowa. Slide-loop holder. No. 1,341,314; May 25; v. 274; p. 707.
Grings, Casper H., Waterloo, Iowa. Buckle. No. 1,341,315; May 25; v. 274; p. 707.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,558; May 11; v. 274; p. 245.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,648; May 11; v. 274; p. 262.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Phonograph and analogous apparatus. No. 1,339,649; May 11; v. 274; p. 263.
Grissinger, Lucy A. (See Grissinger, Elwood, assignor.)
Griswold, Ray H., and A. W. Hammond, Cleveland, assignors to The Dunham Company, Berea, Ohio. Apparatus for seeding. No. 1,340,654; May 18; v. 274; p. 510.
Griswold, Williamson D., Burlington, Iowa. Automatic stop for phonographs. No. 1,339,058; May 4; v. 274; p. 76.
Grob, Henry, Detroit, Mich. Cooking utensil. No. 1,338,830; May 4; v. 274; p. 33.
Grochmal, Jan, Chicopee, Mass. Alcohol-stove. No. 1,339,059; May 4; v. 274; p. 77.
Groenewold, Dick, Kiel, Okla. Grain-elevator. No. 1,340,606; May 18; v. 274; p. 501.
Groff, Joseph G., Buffalo, N. Y. Holder for paper bags and similar articles. No. 1,340,335; May 18; v. 274; p. 449.
Gronroos, Hugo, Copenhagen, Denmark. Mold for casting artificial building-stone with outer and inner vertical and horizontal through-canals. No. 1,340,952; May 25; v. 274; p. 636.
Gross, Daniel N., South Fort Smith, Ark. Gas-stove. No. 1,339,618; May 11; v. 274; p. 257.
Gross, Frederick W., Columbus, Ohio. Silo. No. 1,340,890; May 25; v. 274; p. 625.
Groten, Maximilian. (See Vinograd, E., and Groten.)
Grover, William H., Bay Shore, N. Y. Drip device. No. 1,339,195; May 4; v. 274; p. 101.
Guano & Raggio, Inc. (See Tybout, Richard R., assignor.)
Guardian Trust and Savings Bank of Toledo, The. (See Lott, Clyde R., assignor.)
Gruenfeldt, Emil. (See Foster, H. J., and Gruenfeldt.)
Grundmann, Otto, Jersey City, N. J. Swimming device. No. 1,340,892; May 25; v. 274; p. 625.
Grupe, Roy M., and T. S. Hunt, Broadview, Mont. Leverlock. No. 1,341,504; May 25; v. 274; p. 744.

Gruss, Albert G., and P. Geyer, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Casting process. No. 1,341,461; May 25; v. 274; p. 736.
Gruss, George H., San Francisco, Calif. Internal-combustion engine. No. 1,341,367; May 25; v. 274; p. 718.
Gudegast, Christian H., Richmond Hill, N. Y. Phonograph-cabinet. No. 1,340,766; May 18; v. 274; p. 530.
Guerlicy, Charles, Brooklyn, N. Y. Self-opening container. No. 1,341,505; May 25; v. 274; p. 744.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,339,820; May 11; v. 274; p. 295.
Guillemet, François L., San Francisco, Calif. Aeroplane-undercarriage. No. 1,340,483; May 18; v. 274; p. 477.
Gustaveson, Clarence A., Whitewater, Wis. Nut-lock. No. 1,341,269; May 25; v. 274; p. 698.
Gunn, Thomas M., New London, Conn., assignor to Electric Boat Company. Depth-gage. No. 1,338,981; May 4; v. 274; p. 61.
Guyer, Hans., assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Ribbed body for heat-interchange devices. No. 1,339,385; May 11; v. 274; p. 211.
Guyot-Sionnest, René, Paris, assignor to Societe des Anciens Etablissements Weyher et Richemond, Pantin, France. Reversing-gear for motors with valve-gear worked by cams and levers. No. 1,341,368; May 25; v. 274; p. 718.
Gwyer, Willett H. J., Yonkers, N. Y. Multiple drill. No. 1,340,953; May 25; v. 274; p. 637.
Haas, Paul C., Meudon, Mich. Truck-hoist. No. 1,340,893; May 25; v. 274; p. 625.
Hachmann, Frederick, St. Louis, assignor of one-half to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to M. G. Price, Effingham, Ill., one-sixteenth to C. R. Watson, and one-sixteenth to P. E. Moody, Detroit, Mich. Spark-plug. No. 1,341,614; May 25; v. 274; p. 765.
Haeseler, Paul, assignor to The Liberty Laboratories, Inc., New York, N. Y. Producing and purifying sulfuric acid. No. 1,341,462; May 25; v. 274; p. 736.
Haggin Estate, Inc. (See Kendall, Edward D., assignor.)
Haglund, George W. (See Adix, A. W., and Haglund.)
Hahne, Dale D., Hastings, Nebr. Leveling attachment for cameras. No. 1,341,553; May 25; v. 274; p. 753.
Haight, Harry W., Princeton, N. J. Printed book. No. 1,340,713; May 18; v. 274; p. 521.
Haight, Reuben, Hudson, N. Y. Folding beds. No. 1,339,650; May 11; v. 274; p. 263.
Haines, William B., Sunbury, Pa. Spot-light for automobiles. No. 1,339,954; May 11; v. 274; p. 320.
Haldeman, Bertrand C. (See Sieben, H., and Haldeman.)
Hale, Alfred L., Williamston, Mich. Concrete-mixer. No. 1,341,316; May 25; v. 274; p. 707.
Hall Borchert Dress Form Company. (See Granger, Frank B., assignor.)
Hall, Charles J., Rosalia, Wash. Tractor-hitch. No. 1,341,170; May 25; v. 274; p. 679.
Hall, Edward, Laurium, Mich. Conduit-cleaner. No. 1,338,917; May 4; v. 274; p. 49.
Hall, Everett E. (See Merrell, C. F., and Hall.)
Hall, James H., Rupert, Idaho, and W. B. Hamilton, Delta, Utah. Oil-can. No. 1,340,954; May 25; v. 274; p. 637.
Hall, James T., Waco, Tex. Truck. No. 1,341,171; May 25; v. 274; p. 679.
Hall, Louis J., assignor to Columbian Bronze Corporation, Freeport, N. Y. Lifting-jack. No. 1,339,926; May 11; v. 274; p. 315.
Hall, Nelson, assignor of one-half to A. Cant, Detroit, Mich. Gear reduction and lock for steering apparatus. No. 1,339,454; May 11; v. 274; p. 225.
Hall, Rupert E., Chicago, Ill. Dental articulator. No. 1,338,918; May 4; v. 274; p. 49.
Hall, Rupert E., Philadelphia, Pa. Artificial teeth. No. 1,339,821; May 11; v. 274; p. 295.
Hall, William R. D., Narberth, Pa., assignor to S. Feather Company. Spinning artificial-silk waste. No. 1,340,044; May 11; v. 274; p. 337.
Halstead, Robert E., Los Angeles, Calif. Violin-tailpiece. No. 1,339,196; May 4; v. 274; p. 101.
Halvorsen, Birger F. (See Foss, A., and Halvorsen.)
Ham, William R., State College, Pa. Telescope. No. 1,339,386; May 11; v. 274; p. 212.
Hamachek, Frank, Kewaunee, Wis. Pea-huller. No. 1,340,607; May 18; v. 274; p. 501.
Hamburger, Mark. (See Hamilton, E. M., and Hamburger.)
Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)
Hamilton, Asbury, Brooklyn, N. Y. Mop or brush. No. 1,339,026; May 4; v. 274; p. 70.
Hamilton, Edward M., and M. Hamburger, Baltimore, Md. Garage. No. 1,340,045; May 11; v. 274; p. 337.
Hamilton, Carroll C., Ontario, Calif. Agricultural implement. No. 1,341,231; May 25; v. 274; p. 691.
Hamilton, William B. (See Hall, J. H., and Hamilton.)
Hamilton, William F., Ventura, Calif. Shoe for threshing-machine teeth. No. 1,341,230; May 25; v. 274; p. 691.
Hamlin, Horace P., Montclair, N. J., assignor to Raymond Concrete Pile Company. Reinforced-concrete trestle. No. 1,341,270; May 25; v. 274; p. 698.
Hamm, William S., Hubbard Woods, and F. A. Scheutz, Chicago, Ill., assignors to The Adams & Westlake Co. Lantern-burner. No. 1,341,122; May 25; v. 274; p. 670.
Hammerstein, Emma S., executrix. (See Hammerstein, O.)
Hammerstein's, Oscar, Tobacco Stripping Machine Co. Inc. (See Hammerstein, Oscar, assignor.)
Hammerstein, Oscar, deceased, New York, N. Y.; E. S. Hammerstein, executrix, assignor to Oscar Hammerstein's Tobacco Stripping Machine Co., Inc., Process and apparatus for stripping tobacco-leaf. No. 1,338,768; May 4; v. 274; p. 22.
Hammond, Alfred W. (See Griswold, R. H., and Hammond.)
Hammond, Edward V., Balham, London, England. Motorcycle. No. 1,339,387; May 11; v. 274; p. 212.
Hammond, John H., Jr., Gloucester, Mass. System of ether-wave control. No. 1,339,927; May 11; v. 274; p. 315.
Hampton Electric and Machine Company. (See Welch, Lon L., assignor.)
Handlan, Alexander H., Jr., St. Louis, Mo. Railway-signal lamp. No. 1,338,769; May 4; v. 274; p. 23.
Handshy, Charles F., and W. P. Potter, Springfield, Ill. Shipping-ticket. No. 1,338,770; May 4; v. 274; p. 23.
Hankins, Isaac W. H. (See Hankins, Robert J. and I. W. H.)
Hankins, Robert J. and I. W. H. Hankins, Tazewell, Va. Mail-distributing device. No. 1,340,046; May 11; v. 274; p. 337.
Hankulich, Michael, Stockdale, Pa. Milk-boiler. No. 1,340,336; May 18; v. 274; p. 449.
Hanna, Gretchen R., Boston, Mass. Infant's night-garment. No. 1,341,317; May 25; v. 274; p. 707.
Hannagan, Catherine A., administratrix. (See Hannagan, Paul.)
Hannagan, Paul, deceased, Lawrence, Mass.; C. T. Hannagan, administratrix. Traffic-post. No. 1,341,318; May 25; v. 274; p. 707.
Hannon, George M., Belton, Tex. Fly-killing device. No. 1,340,767; May 18; v. 274; p. 530.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Lubricating device. No. 1,339,619; May 11; v. 274; p. 257.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Thread-guiding device. No. 1,340,541; May 18; v. 274; p. 488.
Hansen, Louis S., Pittsburgh, Pa. Toy house. No. 1,340,047; May 11; v. 274; p. 337.
Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Feeding device. No. 1,339,060; May 4; v. 274; p. 77.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cylindrical grinding-machine. No. 1,339,027; May 4; v. 274; p. 70.
Hanson, Earl C. (See Carlson, W. L., and Hanson.)
Hanson, Earl C., Washington, D. C. Wireless transmission of speech. No. 1,341,232; May 25; v. 274; p. 691.
Hantzsch, Eugene G., Omaha, Nebr. Automobile attachment. No. 1,339,822; May 11; v. 274; p. 295.
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,341,123; May 25; v. 274; p. 670.
Harbaugh, Paul C., Portland, Oreg. Ticket-dispensing device. No. 1,339,823; May 11; v. 274; p. 295.
Harbeck, Jervis R., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can or container. No. 1,338,688; May 4; v. 274; p. 7.
Hardel, Jean A., Paris, France. Apparatus for and process of lining wells. No. 1,339,955; May 11; v. 274; p. 320.
Hare, Arthur J., Dunedin, New Zealand. Winding-reel. No. 1,340,712; May 18; v. 274; p. 520.
Harp, William L., assignor of one-fourth to J. Linn, one-fourth to R. B. Todd, and one-fourth to J. E. Todd, Galax, Va. Demountable rim. No. 1,340,804; May 25; v. 274; p. 626.
Harris, Charles J. (See Sperling, Leopold N., assignor.)
Harris, George H., assignor to Utica Valve and Fixture Company, Utica, N. Y. Gas-cock. No. 1,339,882; May 11; v. 274; p. 307.
Harris, Grover D., Menasha, Wis., assignor to U. S. Tractor & Machinery Company. Centrifugally-governed clutch-pulley. (Reissue.) No. 14,857; May 18; v. 274; p. 549.
Harris, William W., Detroit, Mich. Priming-cup. No. 1,339,883; May 11; v. 274; p. 307.
Harris, William W., Detroit, Mich. Priming-cup. No. 1,339,884.; May 11; v. 274; p. 307.
Harrop, Carl B., Columbus, Ohio. Method and apparatus for burning clay ware. No. 1,338,771; May 4; v. 274; p. 23.
Hart, Albert A., Richmond, Calif. Hose-coupling. No. 1,339,620; May 11; v. 274; p. 257.
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,339,704; May 11; v. 274; p. 273.
Hart, Herbert G. (See Dottl, J., and Hart.)
Hart, Morris C., Moville, Iowa. Automobile-tire chain. No. 1,338,772; May 4; v. 274; p. 23.
Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)

Hartdorn, Louis G., Brooklyn N. Y. Horn. No. 1,339,559; May 11; v. 274; p. 245.
Hartshorn, Carr. (See Blackledge, John T., assignor.)
Harvey, Frank J., Des Moines, Iowa. Auto-lock. No. 1,341,055; May 25; v. 274; p. 657.
Harvey, George T., Halstead, Kans. Repair-plug for pipes. No. 1,340,167; May 18; v. 274; p. 418.
Harvey, Lindsey, Collins, Miss. Railway-switch. No. 1,341,554; May 25; v. 274; p. 754.
Harvey, William A., Scranton, Pa. Electrical appliance. No. 1,339,847; May 11; v. 274; p. 300.
Haskelite Manufacturing Corporation. (See Fitzpatrick, James R., assignor.)
Hatfield, Frank D. (See Savidge, A. C., and Hatfield.)
Hathaway, Edgar F., and C. Lea, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-replenishing mechanism. No. 1,339,507; May 11; v. 274; p. 235.
Hauffe, Chester N., Columbus, Ohio. Tire-rim. No. 1,341,124; May 25; v. 274; p. 670.
Hauss, Hermann, Philadelphia, Pa. Building construction. No. 1,339,388; May 11; v. 274; p. 212.
Havens, Henry F., Sr., Hudson Falls, N. Y. Folding table. No. 1,339,389; May 11; v. 274; p. 212.
Havey, Michael, Los Angeles, Calif. Nozzle-holder. No. 1,339,885; May 11; v. 274; p. 307.
Hawe, Matthew. (See Brooks, James, assignor.)
Hawkes, Frederic W., New York, N. Y. Implement-holder. No 1,340,224; May 18; v. 274; p. 428.
Hawkins, Alda F., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex. Battery-plate and terminal connection. No. 1,339,061; May 4; v. 274; p. 77.
Hawkins, Jesse. (See Sanders, John C., assignor.)
Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. No. 1,338,728; May 4; v. 274; p. 15.
Haydenville Company, The. (See Blair, Peter W., assignor.)
Hayes, Albert, New York, N. Y., assignor to A. F. Ray, Woburn, Mass. Composite motor-fuel. No. 1,338,982; May 4; v. 274; p. 61.
Hayes, Albert, New York, N. Y., assignor to A. F. Ray, Woburn, Mass. Distilling. No. 1,338,983; May 4; v. 274; p. 61.
Hayes, Benjamin P., and F. D. Laughlin, assignors to Automatic Bookkeeping Register Company, Kansas City, Mo. Accounting-machine. No. 1,340,827; May 18; v. 274; p. 542.
Hayes, Thomas J., Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass. Presser-foot mechanism for blindstitch sewing-machines. No. 1,341,233; May 25; v. 274; p. 691.
Hayes, Walter H., London, England. Vaporizer for combustion-engines. No. 1,340,444; May 18; v. 274; p. 470.
Hazard, Allen B., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system, process, and machine. No. 1,341,403; May 25; v. 274; p. 786.
Hazel-Atlas Glass Company. (See Quarrier, Hullihen D., assignor.)
Hazelton, George, Battersea, London, England. Machine-gun. No. 1,339,390; May 11; v. 274; p. 212.
Heap, Edgar, Detroit, Mich. Irrigator shut-off; No. 1,340,828; May 18; v. 274; p. 542.
Hearn, John F. (See Reynolds, J. N., and Hearn.)
Heath, Frank C., Detroit, Mich., assignor, by mesne assignments, to L. Olsen, Indianapolis, Ind. Process and apparatus for lining a bearing-shell. No. 1,340,337; May 18; v. 274; p. 449.
Heath, Spencer, Baltimore, Md. Protector for propeller-blades. No. 1,339,886; May 11; v. 274; p. 307.
Hebert, Joseph A., Freeport, Tex. Apparatus for raising liquids from deep wells. No. 1,339,621; May 11; v. 274; p. 257.
Hecker, John H., New Orleans, La. Chain-fastener. No. 1,340,484; May 18; v. 274; p. 477.
Hedström, Herman O., Djursholm, Sweden. Producing compounds of radium. No. 1,338,831; May 4; v. 274; p. 33.
Heggie, James. (See Corrall, H., and Heggie.)
Heidtmann, Ernest A., Richmond Hill, N. Y. Chest. No. 1,341,125; May 25; v. 274; p. 670.
Heln, Paul P., New York, N. Y. Extension-base lamp-bulb. No. 1,339,333; May 4; v. 274; p. 126.
Helne, Herman, Brooklyn, assignor to A. Kimball Company, New York, N. Y. Pin-ticket machine. No. 1,339,887; May 11; v. 274; p. 307.
Heinrich, Carl, Somerville, Mass., assignor to Bertrand L. Makepeace, Inc. Dumpy-level. No. 1,341,209; May 25; v. 274; p. 687.
Heinrich, Carl, Somerville Mass., assignor to Bertrand L. Makepeace, Inc. Locking device for surveying instruments and the like. No. 1,341,210; May 25; v. 274; p. 687.
Heinrich, S. J., *et al.* (See Lionne, Ernest, assignor.)
Heintz, James E., Elkhart, Kans. Disk-bearing. No. 1,339,455; May 11; v. 274; p. 225.
Heiser, Joseph B., Williamsport, Pa. Self-locking paper carton. No. 1,339,334; May 4; v. 274; p. 126.
Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telegraph system. No. 1,339,824; May 11; v. 274; p. 295.
Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Modulation of high-frequency currents. No. 1,341,211; May 25; v. 274; p. 687.
Helenbolt, George S, Middleport, assignor to The Rex Company, Rochester, N. Y. Sorting apparatus. No. 1,338,729; May 4; v. 274; p. 15.
Heller, Eugene H., assignor to The Hill Pump Valve Company, Chicago, Ill. Automobile-heater. No. 1,341,126; May 25; v. 274; p. 670.
Hellmann, Lui F., and W. W. Baxter, assignors to Air Brake Safety Appliance Co., Indianapolis, Ind. Automatic railway safety control. No. 1,340,861; May 18; v. 274; p. 548.
Hellmund, Rudolf E., Swissvale, Pa. System of control for single-phase alternating-current motors. No. 1,339,928; May 11; v. 274; p. 315.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,339,929; May 11; v. 274; p. 315.
Helm, William A., Traverse City, Mich. Tire-protector. No. 1,340,608; May 18; v. 274; p. 501.
Helman, Calvin C., Cleveland, Ohio. Automobile-bumper. No. 1,339,756; May 11; v. 274; p. 283.
Hemingway, Horace B., assignor to Winchester Repeating Arms Co., New Haven, Conn. Two-part self-locking rivet. No. 1,339,197; May 4; v. 274; p. 101.
Hemingway, Horace B., assignor to Winchester Repeating Arms Co., New Haven, Conn. Two-part self-locking rivet for tool-handles. No. 1,339,198; May 4; v. 274; p. 101.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill Company. (See Jones, Frank E., assignor.)
Hendee, Lem E., Milwaukee, Wis. Support for line-conductors. No. 1,339,391; May 11; v. 274; p. 212.
Henderson, Clark T., assignor to The Cutler Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,339,456; May 11; v. 274; p. 225.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,339,930; May 11; v. 274; p. 316.
Henderson, Christie H., Oakland, Calif. Sanitation appliance. No. 1,340,338; May 18; v. 274; p. 449.
Henderson, Robert B., and R. E. James, Oklahoma, Okla.; said Henderson assignor to said James. Refrigerating apparatus. No. 1,339,622; May 11; v. 274; p. 257.
Henderson, Thomas E., Fort Worth, Tex. Cold process of repairing radiators of internal-combustion engines. No. 1,340,655; May 18; v. 274; p. 510.
Hendricks, Carl R., Jersey City, N. J. Etching apparatus. No. 1,339,457; May 11; v. 274; p. 226.
Hendricks, Walter, L., Aurora, Ill. Tractor. No. 1,338,919; May 4; v. 274; p. 50.
Henne, Isabelle. (See Preo, J. L., and Henne.)
Hennicke, Charles A., Cleveland, Ohio. Coupling device or splice for wagon or trailer tongues. No. 1,339,335; May 4; v. 274; p. 126.
Henry, Ernest J., Cedar Rapids, Iowa. Window-bed. No. 1,340,609; May 18; v. 274; p. 501.
Henry, George R., Denver, Colo. Flying-machine. No. 1,339,336; May 4; v. 274; p. 126.
Henry, Hubert K., Detroit, Mich., assignor to Rex Typewriter Company, Chicago, Ill. Typewriting-machine. No. 1,341,424; May 25; v. 274; p. 728.
Hercules Powder Company. (See Vanderkleed, Charles E., assignor.)
Hermann, Max P., Philadelphia, Pa. Ruling-pen. No. 1,340,895; May 25; v. 274; p. 626.
Herr, Abram B., assignor of one-third to E. M. Royer and one-third to J. H. Moseman, Lancaster, Pa. Can-washing machine. No. 1,340,768; May 18; v. 274; p. 531.
Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Geared turbine. No. 1,339,508; May 11; v. 274; p. 235.
Herrman, George E. (See Herrman, John L. and G. E.)
Herrman, John L. and G. E., Mica, Wash. Bag-holder. No. 1,340,714; May 18; v. 274; p. 521.
Herrmann, Raymond R., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone set. No. 1,340,955; May 25; v. 274; p. 637.
Hershey, Omer E., Gap, Pa. Spring-seat. No. 1,341,555; May 25; v. 274; p. 754.
Hetherington, George, Philadelphia, Pa. Sound-box for talking-machines. No. 1,339,337; May 4; v. 274; p. 127.
Heyl & Patterson, Incorporated. (See Brown, Raymond E., assignor.)
Hickok, Henry N., Rochester, N. Y. Fruit-harvester. No. 1,339,338; May 4; v. 274; p. 127.
Hicks, Charles L., Easley, S. C. Bobbin-cleaning machine. No. 1,339,888; May 11; v. 274; p. 308.
Hide Leather & Belting Company. (See Kinnaird, R. S., assignor.)
Hleatzman, Arthur H., Baltimore, Md. Meat-slicing machine. No. 1,339,623; May 11; v. 274; p. 258.
Higgins, Joseph W., Bordentown, N. J. Demountable rim. No. 1,339,651; May 11; v. 274; p. 263.
Higgins, Thomas G., Brierley Hill, England. Draw-bar coupling. No. 1,341,556; May 25; v. 274; p. 754.
High, John E., Great Falls, Mont. Match-scratcher. No. 1,338,920; May 4; v. 274; p. 50.
Hildebrand, Harry D., Pittsburgh, Pa. Heat-exchanger. No. 1,340,266; May 18; v. 274; p. 436.
Hildebraud, Harry D., Mount Vernon, Ohio. Exchanging heat. No. 1,340,267; May 18; v. 274; p. 436.
Hiley, Alfred. (See Thurston, T. G. O., and Hiley.)

Hill, Arthur W., Belmond, Iowa. Electric-conductor take-up; No. 1,340,268; May 18; v. 274; p. 436.
Hill, Guy, Washington, D. C. Combined wave-changer and wave-meter. No. 1,338,984; May 4; v. 274; p. 61.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,340,715; May 18; v. 274; p. 521.
Hill, Hugh, and J. B. Dyer, Anderson, Ind.; said Dyer assignor to said Hill. Dust-separator. No. 1,339,757; May 11; v. 274; p. 283.
Hill, James F., Salem, Ohio. Combination spear and cutter. No. 1,338,773; May 4; v. 274; p. 23.
Hill, Joseph H., Wilmington, Del. Tire. No. 1,340,339. May 18; v. 274; p. 450.
Hill, Louis A., Washington, D. C. Vehicle-windshield. No. 1,341,464; May 25; v. 274; p. 736.
Hill Pump Valve Company, The. (See Heller, Eugene H., assignor.)
Hill, Reginald J. H., assignor of one-half to M. J. Railing, London, England. Electric cigar-lighter, pipe-lighter, and the like. No. 1,340,716; May 18; v. 274; p. 521.
Hiller, Charles, assignor of one-half to S. G. Stahlhuth, St. Louis, Mo. Hot-air furnace, stove, and the like. No. 1,340,340; May 18; v. 274; p. 450.
Hilliman, Ernest C., Los Angeles, Calif. Auxiliary windshield. No. 1,339,889; May 11; v. 274; p. 308.
Hills, Edward R. (See Borresen, Helge A., assignor.)
Hills, Ray D., Blanchard, Iowa. Flexible adjustable mag-
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,542; May 18; v. 274; p. 488.
neto-coupling. No. 1,340,610; May 18; v. 274; p. 502.
Himmel, Solomon. (See Miller, Andrew E., assignor.)
Himrod, Kirk, Ironton, Minn., assignor to P. W. McKay, trustee, Waterford, Pa. Kiln. No. 1,339,705; May 11; v. 274; p. 273.
Hinkson, Clair L., Newaygo, Mich. Kerosene-burning torch. No. 1,341,127; May 25; v. 274; p. 671.
Hinman, Charles W., Winchester, Mass. Gas-handling apparatus. No. 1,341,056; May 25; v. 274; p. 657.
Hinnekens, Florent, Paterson, N. J. Tentering-clip. No. 1,339,509; May 11; v. 274; p. 236.
Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Sanitary fixture. No. 1,340,611; May 18; v. 274; p. 502.
Hintz, Joseph, Chicago, Ill. Cart. No. 1,339,624; May 11; v. 274; p. 258.
Hire, Willis, Detroit, Mich. Envelop. No. 1,339,392; May 11; v. 274; p. 213.
Hitchner, Joseph C., Philadelphia, Pa. Repeating attachment for talking-machines. No. 1,339,199; May 4; v. 274; p. 102.
Hitchcock, Halbert K., Pittsburgh, Pa. Sole. No. 1,340,341; May 18; v. 274; p. 450.
Hiteshew, Harvey B., Cleveland, Ohio. Making a composite casting of aluminum and another metal. No. 1,339,956; May 11; v. 274; p. 321.
Hitner, Harry F., Creighton, Pa., and T. E. Oakes, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company. Device for capping off glass cylinders. No. 1,339,200; May 4; v. 274; p. 102.
Hleb, Peter, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Transmitter-guard for power-tables. No. 1,339,758; May 11; v. 274; p. 283.
Hobbie, Edward H., Boonton, N. J., assignor to Saferlite Lens Company, Inc., New York, N. Y. Headlight. No. 1,341,128; May 25; v. 274; p. 671.
Hodge, Thomas D., Duluth, Minn. Roll-cooling means. No. 1,339,108; May 4; v. 274; p. 86.
Hodges, Charles H., New York, N. Y., assignor to Consolidated Gas Company of New York. Automatic valve-regulator. No. 1,341,319; May 25; v. 274; p. 707.
Hoe, R., and Co. (See Busk, Anthony S., assignor.)
Hoefer, Charles C. (See Sieben, H., and Haldeman, assignors.)
Hoesing, Louis, Crofton, Nebr. Attachment for hay-sweeps. No. 1,340,391; May 18; v. 274; p. 460.
Hofmann, Alfred, Zurich, Switzerland. Washing-machine. No. 1,340,543; May 18; v. 274; p. 488.
Hoffman, Daniel E., Plymouth, Ohio. Adjustable sieve for separators. No. 1,339,560; May 11; v. 274; p. 245.
Hoffman, Peter A., Hastings, Minn. Folding box. No. 1,339,339; May 4; v. 274; p. 127.
Hoffman, Roscoe C., Indianapolis, Ind. Disk wheel and hub for vehicles. No. 1,341,465; May 25; v. 274; p. 737.
Hoffman, William A., Dayton, Ohio. Air blower and distributer. No. 1,339,510; May 11; v. 274; p. 236.
Hogg, Arthur D., Grand Forks, N. D. Spare wheel for vehicles. No. 1,340,485; May 18; v. 274; p. 478.
Hohenstein, Edward L., *et al.* (See Engel, William C., assignor.)
Holbrook, Harry R., Attleboro, Mass. Key and container. No. 1,340,850; May 18; v. 274; p. 546.
Holdaway, Hall H., Los Angeles, Calif., assignor to Desert Fibre Company. Machine for extracting fiber from yucca and the like. No. 1,339,825; May 11; v. 274; p. 296.
Holderle, Carl L. and F. W., Rochester, N. Y. Faucet for dispensing high-pressure liquids. No. 1,340,769; May 18; v. 274; p. 531.
Holderle, Frederick W. (See Holderle, Carl L. and F. W.)
Holland, Joseph A., Brooklyn, assignor to N. W. Dingwall, Mount Vernon, N. Y. Mechanical scraper. No. 1,341,369; May 25; v. 274; p. 718.
Holland, Robert B., Yakima, Wash. Folding automobile camp-table. No. 1,339,028; May 4; v. 274; p. 70.
Holland, William W., and F. J. Gainer, Woodriver, Ill. Hand-hole cover. No. 1,339,340; May 4; v. 274; p. 127.
Holle, Joseph, Newark, N. J. Cam and push-rod machine. No. 1,340,717; May 18; v. 274; p. 521.
Hollick, Walter J., Manchester, England. Grabs, lifting-dogs, and like lifting and lowering apparatus. No. 1,339,341; May 4; v. 274; p. 127.
Holloway, Sarah A., Hereford, Tex. Roasting-pan. No. 1,339,625; May 11; v. 274; p. 258.
Holm, Charles A., Tigerton, Wis. Sharpener for feed-cutters. No. 1,339,511; May 11; v. 274; p. 236.
Holman, Joseph H. (See Nettle, W. E., Selby, Blyth, and Holman.)
Holt, Daniel S., assignor to Strathmore Paper Company, Mittineague, Mass. Recording-hydrometer. No. 1,341,014; May 25; v. 274; p. 649.
Holzapfel, Albert C., and P. Walther, New York, N. Y. Composition for coating iron, steel, and wood. No. 1,338,921; May 4; v. 274; p. 50.
Holze, Homer M., Cleveland, Ohio. Internal-combustion motor. No. 1,340,223; May 18; v. 274; p. 428.
Hood, Ernest K., deceased, Indianapolis, Ind.; H. H. Hood, administratrix. Operating mechanism for slicing-machines. No. 1,340,829; May 18; v. 274; p. 542.
Hood, Harriet H., administratrix. (See Hood, Ernest K.)
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Hooven Radiator Company. (See Spery, Charles F., assignor.)
Hopkins, Charles E., Plainfield, N. J. Machine for casting and finishing tubular stereotype-plates. No. 1,341,557; May 25; v. 274; p. 754.
Hopkins, Ernest R., Independence, Mo. Dust-collector. No. 1,341,129; May 25; v. 274; p. 671.
Hopkins, Nevil M., Washington, D. C. Apparatus for treating footwear. No. 1,340,544; May 18; v. 274; p. 489.
Hopkins, Ralph Z., Detroit, Mich. Vehicle-shipping apparatus. No. 1,339,890; May 11; v. 274; p. 308.
Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Scale. No. 1,339,759; May 11; v. 274; p. 283.
Hopwood, John M. (See Brown, F. H., and Hopwood.)
Hopwood, John M. (See Brown, Francis H., assignor.)
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,923; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,924; May 4; v. 274; p. 50.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,925; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,926; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Controlling combustion by flow and pressure. No. 1,338,927; May 4; v. 274; p. 51.
Hopwood, John M., Dormont, Pa. Regulation and apparatus therefor. No. 1,338,928; May 4; v. 274, p. 51.
Hopwood, John M., Dormont, Pa. Regulating mechanism. No. 1,338,929; May 4; v. 274; p. 51.
Hopwood, John M., Pittsburgh, Pa. Regulating combustion-furnaces. No. 1,338,922; May 4; v. 274; p. 50.
Horgan, Stephen H., Orange, N. J. Art and apparatus for making printing-surfaces. No. 1,340,342; May 18; v. 274; p. 450.
Horn, Joseph A., Los Angeles, Calif. Overalls. No. 1,341,506; May 25; v. 274; p. 744.
Hornung, Anton N., Los Angeles, Calif. Cold-storage-door adjustable hinge. No. 1,340,862; May 18; v. 274; p. 548.
Horton, Aaron, Detroit, Mich. Washboard. No. 1,338,930; May 4; v. 274; p. 52.
Horton, Charles S., Huntley, Mont. Manifold-heater. No. 1,340,770; May 18; v. 274; p. 531.
Horton, Joseph B., Tennille, Ga. Automatic sash-lock. No. 1,341,234; May 25; v. 274; p. 692.
Houk, James P., New Albany, Miss. Railway-crossing. No. 1,341,320; May 25; v. 274; p. 708.
Houston, Percival T., assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,339,760; May 11; v. 274; p. 283.
Hout, Frank W., (See Watson, William F., assignor.)
Howard, Charles B., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting sheet material. No. 1,340,225; May 18; v. 274; p. 428.
Howard, Monroe S., Waukon, Iowa. Player-piano-control apparatus. No. 1,339,848; May 11; v. 274; p. 300.
Howe, Albert A., Terrill, Iowa. Nursery-seat. No. 1,339,891; May 11; v. 274; p. 308.
Hubbard, Morris V., San Jose, Calif. Stretcher. No. 1,338,774; May 4; v. 274; p. 24.
Hubbell, Henry S., Ashburnham, Mass. Chuck. No. 1,338,775; May 4; v. 274; p. 24.
Huckle, Oscar R., Joliet, Ill. Carbureter. No. 1,340,956; May 25; v. 274; p. 637.

Huda, Frank, Perth Amboy, N. J. Non-skid for wheels. No. 1,340,048; May 11; v. 274; p. 337.
Hudson, Frank W., assignor to H. E. Johnstone, Bakersfield, Calif. Game. No. 1,340,612; May 18; v. 274; p. 502.
Hudson Metal Bed Co. (See Meadoff, Abraham S., assignor.)
Hudson Motor Specialties Company. (See Hudson, William F., assignor.)
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Propulsion connection for motor-vehicles. No. 1,341,615; May 25; v. 274; p. 765.
Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Propulsion connection for motor-vehicles. No. 1,341,616; May 25; v. 274; p. 765.
Huelsdonk, William A., San Francisco, Calif. Combination excavator, crusher, and dredger. No. 1,340,445; May 18; v. 274; p. 470.
Huff, Albert J. (See Dohner, B. E., and Huff.)
Huff, Furman, Marysville, Calif. Sickle-bar head for mowing-machines. No. 1,341,212; May 25; v. 274; p. 687.
Hüff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,512; May 11; v. 274; p. 236.
Hughel, Clarence, Indianapolis, Ind. Dispensing-pump. No. 1,339,626; May 11; v. 274; p. 258.
Hughes, Alexander, assignor to H. Hughes and Son, Limited, London, England. Sextant. No. 1,339,342; May 4; v. 274; p. 128.
Hughes, Emily W., administratrix. (See Hughes, Johnson.)
Hughes Granite Company, The. (See Hughes, W. E., and King, assignors.)
Hughes, Henry, and Son. (See Hughes, Alexander, assignor.)
Hughes, Johnson, deceased: E. W. Hughes, administratrix, Philadelphia, Pa. Electric furnace. No. 1,339,393; May 11; v. 274; p. 213.
Hughes Tool Company. (See Simmons, John T., assignor.)
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Wall construction for mausoleums. No. 1,340,656; May 18; v. 274; p. 510.
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Ventilating and drainage system. No. 1,339,761; May 11; v. 274; p. 284.
Hulder, Joseph P., New York, N. Y., assignor to Auto Pneumatic Action Company, Player-piano mechanism. No. 1,341,425; May 25; v. 274; p. 728.
Hulett, Elzie H., Michigan City, Ind. Water-glass. No. 1,339,561; May 11; v. 274; p. 245.
Hulett, Frank A., South Londonderry, Vt. Marble-game board. No. 1,339,343; May 4; v. 274; p. 128.
Hummel, Orville C., Nauvoo, Ill. Roll-film carrier. No. 1,340,957; May 25; v. 274; p. 638.
Humphrey, James L. (See Earley, J. A., and Humphrey.)
Humphreys, William L., Sarasota, Fla. Dispensing-counter. No. 1,339,652; May 11; v. 274; p. 263.
Hunstad, Clarence J., Guttenberg, Iowa. Leak-proof oil-washer. No. 1,339,762; May 11; v. 274; p. 284.
Hunt, Helm, Ferris & Company. (See Ferris, Howard J., assignor.)
Hunt, Thomas S. (See Grupe, R. M., and Hunt.)
Hunter, Albert, Portland, Oreg. Holder-on. No. 1,341,370; May 25; v. 274; p. 718.
Hunter, Philip V., Purley, and J. R. Beard, Benton, England. Protection of electric distribution systems. No. 1,339,394; May 11; v. 274; p. 213.
Hunter, Rudolph M., Philadelphia, Pa, assignor to H. W. Butterworth & Sons Company. Apparatus for feeding and guiding cloth. No. 1,339,826; May 11; v. 274; p. 296.
Hunter, Thomas B., San Francisco, Calif. Preparing and packing raisins. No. 1,341,057; May 25; v. 274; p. 658.
Huntington, Henry J., *et al.* (See Lippitt, Elihu, assignor.)
Huntington, Robert, Rosebank, N. Y. Spherical triangle calculator. No. 1,338,730; May 4; v. 274; p. 15.
Huntoon, Charles F., Chicago, Ill. Brake-beam strut. No. 1,340,168; May 18; v. 274; p. 418.
Hunzicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Slack-adjuster. No. 1,341,321; May 25; v. 274; p. 708.
Hurni, Ford M. St. Joe, Ind. Steering attachment for tractors. No. 1,341,426; May 25; v. 274; p. 729.
Hurt, George C., Blackstone, Va. Combined cap and funnel for radiator-filling tubes. No. 1,339,562; May 11; v. 274; p. 245.
Hurteau, Jean B., Terrebonne, Quebec, Canada. Boot and shoe. No. 1,340,049; May 11; v. 274; p. 338.
Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane-crushing apparatus. No. 1,339,600; May 11; v. 274; p. 253.
Hurxthal, Alpheus O., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Rotary driers. No. 1,339,260; May 4; v. 274; p. 112.
Huston, Charles L., Coatesville, Pa. Double-head milling-machine. No. 1,339,029; May 4; v. 274; p. 70.
Hutchins Car Roofing Company. (See Hawksworth, D. W., assignor.)
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Aluminous composition and making the same. No. 1,339,344; May 4; v. 274; p. 128.
Hutchinson, Albert A., Winchester, Mass. Hide-working machine. No. 1,339,201; May 4; v. 274; p. 102.
Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)
Hutchinson, Joseph T., V. Shaw, and F. Barnes, Vancouver, British Columbia, Canada. Making glazing-bars. No. 1,341,271; May 25; v. 274; p. 698.
Hutchinson, Warren B. (See Le Fevre, G. A., and Hutchinson.)
Hutchinson, Warren B., Newark, N. J., assignor of one-half to A. Blackburne, New York, N. Y. Drier. No. 1,338,731; May 4; v. 274; p. 15.
Hutton, Robert G. (See Wilson, D. H., and Hutton.)
Hyde, Augustus C., Perivale, England. Means to be employed in the electric welding of iron or steel or alloys thereof. No. 1,341,558; May 25; v. 274; p. 755.
Hydraulic Pressed Steel Company. (See Foster, H. J., and Gruenfeld, assignors.)
Hydraulic Pressed Steel Company, The. (See Foster, Henry J., assignor.)
Hydro-Dynamics, Limited. (See Lamplough, Frederick, assignor.)
Hyle, Jacob A., Philadelphia, Pa., assignor to Tri-City Steele Company, St. Louis, Mo. Metallic railway-crosstie. No. 1,339,345; May 4; v. 274; p. 128.
Hyman, Herbert R., Indianapolis, Ind., and T. B. Messick, Toledo, Ohio. Securing depth and relief for commercial advertising. No. 1,339,892; May 11; v. 274; p. 308.
Hymans, Charles, Cambridge, England. Range-finder or telemeter. No. 1,338,985; May 4; v. 274; p. 62.
Icy-Hot Bottle Company, The. (See Lindahl, Erick P., assignor.)
Ideal Removable Body Company. (See Reynolds, Frank H., assignor.)
Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)
Ideal Wrapping Machine Company. (See Frey, John C., assignor.)
Igou, Durward B., Lakewood, Ohio. Gas-burner. No. 1,340,226; May 18; v. 274; p. 429.
Igou, Durward B., Lakewood, Ohio. Multiple diestock. No. 1,340,227; May 18; v. 274; p. 429.
Illas, Albert, Newark, N. J. Attachment for internal-combustion engines. No. 1,341,172; May 25; v. 274; p. 679.
Illinois Pen Company. (See Kritikson, John.)
Imans, Pierre, Paris, France. Arms for exhibition lay figures. No. 1,340,446; May 18; v. 274; p. 470.
Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)
Independent Button Fastener Machine Co. (See Sneierson, Samuel L., assignor.)
Independent Trunk and Bag Company. (See Plummer, Henry L., assignor.)
Ingalls, Norris C., Newburyport, Mass. Hoisting-book. No. 1,341,427; May 25; v. 274; p. 729.
Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,339,395; May 11; v. 274; p. 213.
Ingersoll, Howard L., White Plains, N. Y. Governor control for booster-motors for locomotives. No. 1,339,513; May 11; v. 274; p. 236.
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll, Robert H. & Bros. (See Maloney, William T., assignor.)
Ingham, Clarence H., and W. H. Wilcox, Cooper, Iowa. Reversible plow-shovel. No. 1,340,392; May 18; v. 274; p. 460.
Ingoldby, Maurice K., assignor to Vickers Limited, Westminster, London, England. Power-transmission device. No. 1,340,447; May 18; v. 274; p. 471.
Ingram, Horace G., Juniata, and S. Goldberg, Altoona, Pa. Powder-dispensing device. No. 1,341,174; May 25; v. 274; p. 680
Innes, George. (See Prall, James H., assignor.)
International Farm Implement Company. (See Pile, John R., assignor.)
International Gasolene Process Corporation. (See Faust, Samuel D., assignor.)
International Harvester Company. (See Rice, George L., assignor.)
International Manufacturing Company. (See Thompson, R. A., and Morris, assignors.)
International Precipitation Company. (See Schmidt, Walter A., assignor.)
International Time Recording Company, The. (See Bryce, James W., assignor.)
Ioka, Unji Sakai, Osaka-Fu, Japan. Removing the odor from fish-oil. No. 1,340,050; May 11; v. 274; p. 338.
Ira Co. Fabrique Suisse d' Articles en bois, Schweizerische Holzwarenfabrik. (See Baumgartner, Arthur, assignor.)
Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machines. No. 1,339,346; May 4; v. 274; p. 128.
Irrgang, William F., assignor to The Warren & Irrgang Company, Springfield, Mass. Truck. No. 1,339,109; May 4; v. 274; p. 86.
Iucolano, Frank, New York, N. Y. Window-lock. No. 1,341,173; May 25; v. 274; p. 680.

Ivey, Percy D., Guelph, and A. J. Salisbury, Toronto, Ontario, Canada. Storage battery. No. 1,340,269; May 18; v. 274; p. 436.
Jackson, Arvis, East St. Louis, Ill. Automobile-lock. No. 1,340,051; May 11; v. 274; p. 338.
Jackson, Alfred A., Denver, Colo. Means for introducing auxiliary air. No. 1,340,228; May 18; v. 274; p. 429.
Jackson, George B., Philadelphia, Pa. Trainman's kit. No. 1,341,559; May 25; v. 274; p. 755.
Jackson, Harry, Brooklyn, N. Y. Pump. No. 1,339,347; May 4; v. 274; p. 128.
Jackson, Robert E., and B. O. Yearwood, Princeton, W. Va. Transmission-gearing. No. 1,340,486; May 18; v. 274; p. 478.
Jackson, Roy A., Springfield, N. J. Apparatus for teaching arithmetic. No. 1,340,052; May 11; v. 274; p. 338.
Jackson, Thomas C. (See Rodgers, R. E., and Jackson.)
Jacobs, Jacob A., St. Louis, Mo., assignor to Elsenstadt Manufacturing Company. Cuff-button. No. 1,341,130; May 25; v. 274; p. 671.
Jacobsen, Roy A., St. Louis, Mo. Solder for aluminum. No. 1,341,508; May 25; v. 274; p. 745.
Jacobsson, Clas J., New York, N. Y. False bottom for garbage-receptacles. No. 1,341,507; May 25; v. 274; p. 745.
Jacobus, David S. Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer and operating same. No. 1,341,213; May 25; v. 274; p. 688.
Jacobus, Edward, Montclair, N. J. Lightning-arrester. No. 1,340,657; May 18; v. 274; p. 510.
Jacoby, Stanley E., and C. J. Edmonds, Brimfield, Ind. Headlight control. No. 1,340,771; May 18; v. 274; p. 531.
Jahoda, Emil, New York, N. Y. Safety electric welding-torch. No. 1,340,270; May 18; v. 274; p. 436.
James, Ida M. (See Gibson, W. E. F., and James.)
James, Robert E. (See Henderson, R. B., and James.)
Janicki, Andrew, Milwaukee, Wis. Sweat-pad for horse-collars. No. 1,338,931; May 4; v. 274; p. 52.
Jankower, David, New York, N. Y. Cylindrical typewriter. No. 1,341,131; May 25; v. 274; p. 671.
Janda, John, Noble, Okla. Dirigible airship. No. 1,340,053; May 11; v. 274; p. 338.
Jenkins, Alexander F., Baltimore, Md. Truck for portable lights. No. 1,341,235; May 25; v. 274; p. 692.
Jenkins, Arthur H., Ruleville, Miss. Motor-repair stand. No. 1,341,322; May 25; v. 274; p. 708.
Jennison, Harry G., Toledo, Ohio. Block-pavement. No. 1,340,896; May 25; v. 274; p. 626.
Jansma, Jacob, Hospers, Iowa. Device for hiding shingles. No. 1,339,458; May 11; v. 274; p. 226.
Janssen, Henry, assignor to Textile Machine Works, Wyomissing, Pa. Jacquard mechanism. No. 1,339,957; May 11; v. 274; p. 321.
Jaques, Fernando O., Sr., Providence, assignor to The Central Tool Company, Cranston, R. I. Micrometer-gage. No. 1,338,932; May 4; v. 274; p. 52.
Jaques, Rufus S., Spokane, Wash. Automobile-lock. No. 1,340,393; May 18; v. 274; p. 460.
Jarman, Alfred R., Philadelphia, Pa., assignor of one-half to R. G. Granville, New York, N. Y. Oscillating valve. No. 1,339,110; May 4; v. 274; p. 86.
Jeffrey Manufacturing Company, The. (See Fowler, John T., assignor.)
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jeffrey Manufacturing Company, The. (See Liggett, William K., asignor.)
Jeffries, Carl F., Detroit, Mich. Internal-combustion engine. No. 1,340,229; May 18; 274; p. 429.
Jenkins, Edward W., Norristown, Pa. Machine for Tying bundles, &c. No. 1,339,396; May 11; v. 274; p. 213.
Jenkins, Wilton F., Richmond, Va. Temperature-indicator for automobile-radiators. No. 1,340,830; May 18; v. 274; p. 542.
Jennings, Victor H., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Receptacle or pocket and making same. No. 1,338,776; May 4; v. 274; p. 24.
Jennings, William, Camp Nelson, and C. J. Armstrong, Louisville, Ky. Surgical-bandage heater and wringer. No. 1,340,772; May 18; v. 274; p. 532.
Jensen, Peter W., Princeton, Minn. Halter. No. 1,340,271; May 18; v. 274; p. 437.
Jessen, James, assignor to The Line Drive Tractor, Inc., Milwaukee, Wis. Tractor. No. 1,340,169; May 18; v. 274; p. 418.
Jessup, George C., Camden, N. J. Power transmission. No. 1,338,832; May 4; v. 274; p. 34.
Jessup, Wardlow M., Camden, N. J. Shoe. No. 1,341,323; May 25; v. 274; p. 708.
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Reversing mechanism for fluid-engines. No. 1,338,732; May 4; v. 274; p. 16.
Jinkner, John F., Buffalo, N. Y. Detachable wire wheel. No. 1,340,773; May 18; v. 274; p. 532.
John, Lillian, New York, N. Y. Hose-supporter. No. 1,338,733; May 4; v. 274; p. 16.
Johns, Thomas W., Brooklyn, N. Y. Casting mechanism for typographical machines. No. 1,340,613; May 18; v. 274; p. 502.
Johnson, Adolph F., Hancock, Mich. Easel. No. 1,341,560; May 25; v. 274; p. 755.
Johnson, Alfred, Chicago, Ill. Device for removing [illegible] and the like. No. 1,341,132; May 25; v. [illegible]; p. 672.
Johnson, Andrew J., Long Prairie, Minn. Silo-heater. No. 1,340,718; May 18; v. 274; p. 521.
Johnson Automobile Lock Company. (See Vodoz, Frederick W., assignor.)
Johnson, Charles, assignor of one-half to W. Crawford, Bedford, Ind. Fan-belt retaining and tightening device. No. 1,339,893; May 11; v. 274; p. 308.
Johnson, Clarence O. (See Christensen, Rasmus P., assignor.)
Johnson, Edward M., Blytheville, Ark. Spark-plug. No. 1,341,058; May 25; v. 274; p. 658.
Johnson, Ernest S., Webster City, Iowa. Animal-feeding device. No. 1,339,763; May 11; v. 274; p. 284.
Johnson, Evans S., Eldorado, Okla. Spring-tire. No. 1,340,272; May 18; v. 274; p. 437.
Johnson, Fred V., Berkeley, Calif. Transmission. No. 1,338,777; May 4; v. 274; p. 24.
Johnson, Fritz, Fountain, Colo. Radiator. No. 1,340,774; May 18; v. 274; p. 532.
Johnson, George H., Hattiesburg, Miss. Means for preventing clogging of sand-pipes. No. 1,341,236; May 25; v. 274; p. 692.
Johnson, Gustave P., Waukegan, Ill. Pump. No. 1,339,563; May 11; v. 274; p. 246.
Johnson, Herman, and A. D. C. Walker, Marion, Ind. Flag, pennant, or banner floating bracket. No. 1,339,849; May 11; v. 274; p. 300.
Johnson, John A., Baltimore, Md. Truck. No. 1,339,514; May 11; v. 274; p. 237.
Johnson, John A., Meriden, assignor to The Bassick Company, Bridgeport, Conn. Sliding shoe for furniture. No. 1,341,133; May 25; v. 274; p. 672.
Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Label-wiping mechanism. No. 1,339,764; May 11; v. 274; p. 284.
Johnson, John L., Humble, Tex. Pump. No. 1,340,545; May 18; v. 274; p. 489.
Johnson, Louis J., South Bend, Ind. Traction-wheel. No. 1,341,466; May 25; v. 274; p. 737.
Johnson, Peter A., assignor to Johnson-Fries Marine Construction Co., Portland, Oreg. Ship-steering apparatus. No. 1,339,850; May 11; v. 274; p. 300.
Johnson, Raymond D., Sea Gate, Coney Island, N. Y. Tank and forming the same. No. 1,339,062; May 4; v. 274; p. 77.
Johnson, Thomas W., North Attleboro, Mass. Brush. No. 1,339,894; May 11; v. 274; p. 309.
Johnson, Woolsey M., Hartford, Conn. Mineral-manure process. No. 1,338,734; May 4; v. 274; p. 16.
Johnson-Fries Marine Construction Co. (See Johnson, Peter A., assignor.)
Johnston, William A., and A. W. Browne, Prince Bay, N. Y., and F. L. Wallace, Philadelphia, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Anesthetic-administering apparatus. No. 1,340,448; May 18; v. 274; p. 471.
Johnstone, H. E. (See Hudson, Frank W., assignor.)
Jointless Fire Brick Company. (See Schaefer, William A. L., assignor.)
Jolley, Thomas M., Des Moines, Iowa. Music-leaf turner. No. 1,339,261; May 4; v. 274; p. 113.
Jones, Clifford C., Washington, D. C. Fire-extinguishing apparatus. No. 1,338,778; May 4; v. 274; p. 24.
Jones, Charles W., St. Paul, Minn. Razor-blade holder. No. 1,339,397; May 11; v. 274; p. 214.
Jones, El Dorado. (See Delavan, Sophia E., assignor.)
Jones, Elmer M. (See Bennett, R. W., and Jones.)
Jones, Ernest H., Islington, London, England. Manufacture of electrodes for soldering and depositing metals by the electric arc. No. 1,339,515; May 11; v. 274; p. 237.
Jones, Frank B., Altoona, Pa. Steam-trap. No. 1,340,958; May 25; v. 274; p. 638.
Jones, Frank E., Central Falls, assignor, by mesne assignments, to Hemphill Company, Pawtucket, R. I. Yarn-changer mechanism for knitting-machines. No. 1,341,324; May 25; v. 274; p. 709.
Jones, George A., Baldwin, assignor to Ordnance Engineering Corporation, New York, N. Y. Adjustable liner for type-casting machines. No. 1,340,831; May 18; v. 274; p. 543.
Jones, Harry B., *et al.* (See Salsman, James E., assignor.)
Jones, Harry H., Boston, Mass. Combination electric switch. No. 1,340,230; May 18; v. 274; p. 429.
Jones, Harry H., Segundo, assignor of one-half to A. L. Dain, Trinidad, Colo. Flue-cleaning machine. No. 1,339,348; May 4; v. 274; p. 129.
Jones, Jeff H. (See Jones, William M. and J. H.)
Jones, John G., Detroit, Mich. Electric-light bracket. No. 1,340,273; May 18; v. 274; p. 437.
Jones, Johnny J. (See Stock, John J., assignor.)
Jones, Lenora H., Wichita, Kans. Lock-nut. No. 1,341,175; May 25; v. 274; p. 680.
Jones, Samuel H. (See Jones, William M. and J. H., assignors.)
Jones, Walter, Stourbridge, England. Purification of sewage and other liquids. No. 1,341,561; May 25; v. 274; p. 755.
Jones, William L., Philadelphia, Pa., assignor to Vibro-Dental Products, Incorporated. Dental massage-tool. No. 1,340,959; May 25; v. 274; p. 638.

Jones, William M. and J. H., assignors of one-third to S. H. Jones, New Holstein, Wis. Stump puller and piler. No. 1,341,176; May 25; v. 274; p. 680.
Jordahn, Gus, Palm Beach, Fla. Floating device. No. 1,341,272; May 25; v. 274; p. 698.
Jordan, Fred A. (See Swart, W. G., Jordan, Davis, and Counselman.)
Josephson, Harry, assignor of one-half to R. C. McNeil, Bridgeport, Conn. Coal-bag. No. 1,339,851; May 11; v. 274; p. 301.
Josephson, Henry, Cleveland, Ohio. Brake mechanism for automobiles. No. 1,339,895; May 11; v. 274; p. 309.
Judge, John, New York, N. Y. Incandescent lamp. No. 1,340,054; May 11; v. 274; p. 339.
Jurist, Martin. (See Nelson, Emil A., assignor.)
Justrite Manufacturing Company. (See Hansen, Augle L., assignor.)
Kaaten, Einar, assignor to A/S Arendal Smelteverk, Eydehavn, near Arendal, Norway. Electrode-holder. No. 1,339,111; May 4; v. 274; p. 87.
Kade, Charles F., assignor to C. F. Kade, Jr., Plymouth, Wis. Piano-bench. No. 1,339,262; May 4; v. 274; p. 113.
Kade, Charles F., Jr. (See Kade, Charles F., assignor.)
Kahler, Venice A. H., Pasadena, Calif. Half-spray sprinkler. No. 1,339,349; May 4; v. 274; p. 129.
Kainen, Joseph, Brooklyn, N. Y. Safety appliance for automobiles, &c. No. 1,341,325; May 25; v. 274; p. 709.
Kalbfus, Oliver A., Baltimore, Md. Aeroplane. No. 1,340,960; May 25; v. 274; p. 638.
Kansas City Structural Steel Company, The. (See Meyers, Alfred M., assignor.)
Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)
Karle, Joun D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Oil-can. No. 1,339,765; May 11; v. 274; p. 284.
Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Guard for power-table driving mechanisms. No. 1,339,766; May 11; v. 274; p. 285.
Karlsson, Karl W., East Boston, Mass. Feeding attachment for bitstocks. No. 1,339,958; May 11; v. 274; p. 321.
Karr, Burton A., Los Angeles, Calif. Pneumatic tire. No. 1,339,516; May 11; v. 274; p. 237.
Kastohryz, Joseph, *et al.* (See Doman, Herman C., assignor.)
Kasbohm, William F., Van Wert, Ohio. Window-shade and curtain-pole bracket. No. 1,341,562; May 25; v. 274; p. 755.
Katz, Joseph M., Brooklyn, N. Y. Bag or suitcase. No. 1,339,653; May 11; v. 274; p. 263.
Kaufman, Alfonse, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Making sodium cyanid. No. 1,339,706; May 11; v. 274; p. 274.
Kaufman, Isaac M., Brooklyn, N. Y. Mop-head. No. 1,339,398; May 11; v. 274; p. 214.
Kaufman, Samuel E., Beaver Dam, Wis. Portable adjusting-table for use of chiropractors. No. 1,338,735; May 4; v. 274; p. 16.
Kaufman, Theodore L., Carbondale, Ill. Automatic valve for funnels. No. 1,341,563; May 25; v. 274; p. 755.
Kay, Arethusa, *et al.* (See Kay, Samuel P., assignor.)
Kay, Samuel P., Rochester, assignor of one-half to A. K. Rownd and one-half to A. Kay, Rochester, N. Y. Pencil-holder. No. 1,338,933; May 4; v. 274; p. 52.
Kaye, John A., Sault Ste. Marie, Ontario, Canada. Bottle-cap. No. 1,341,177; May 25; v. 274; p. 681.
Kaylor, William, assignor of one-half to J. L. Kimmel, Muskogee, Okla. One-piece ratchet-wrench. No. 1,341,178; May 25; v. 274; p. 681.
Kearney, Philip. (See Temple, Harry M., and Kearney.)
Keeran, Charles R., Chicago, Ill. Forming two-piece caps for receptacles. No. 1,340,449; May 18; v. 274; p. 471.
Keeran, Charles R., Chicago, Ill. Bomb. No. 1,340,546; May 18; v. 274; p. 489.
Kellam, Ernest G., Gray, Ga. Train-signal. No. 1,341,179; May 25; v. 274; p. 681.
Keller, Jeremiah, Chicago, Ill. Valve-rotating mechanism. No. 1,341,134; May 25; v. 274; p. 672.
Keller Pneumatic Tool Company. (See Sykes, Lewis, assignor.)
Kelley, Edward F., Stratford, assignor to The Raybestos Company, Bridgeport, Conn. Equalizing device for trailer-brakes. No. 1,341,617; May 25; v. 274; p. 765.
Kelley, Marven, Luling, Tex. Signaling-boiler. No. 1,339,350; May 4; v. 274; p. 129.
Kellner, Franz, Barmen, Germany. Braiding or lacing machine. No. 7,340,487; May 18; v. 274; p. 478.
Kellogg, Lewis L., Denver, Colo. Non-skid device. No. 1,338,934; May 4; v. 274; p. 52.
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kelly, Daniel R., assignor to J. P. Murray, Toronto, Ontario, Canada. Duster attachment for brooms. No. 1,339,767; May 14; v. 274; p. 285.
Kelly, John C., and C. Enscoe, Dayton, Ohio. Clutch and braking mechanism. No. 1,340,897; May 25; v. 274; p. 626.
Kelly, John F., Elkins, W. Va. Shoe-dauber. No. 1,340,775; May 18; v. 274; p. 532.
Kelly, Joseph N., assignor to Ohmer Fare Register Company, Dayton, Ohio. Steering mechanism. No. 1,341,326; May 25; v. 274; p. 709.
Kelly, Orin, Columbus, Ohio. Automatic firing device. No. 1,340,274; May 18; v. 274; p. 437.
Kelly, William G., Hot Springs, Ark. Bunk-block. No. 1,340,055; May 11; v. 274; p. 339.
Kelly, William H., Sparks, Nev. Motion-picture-projecting machine. No. 1,341,467; May 25; v. 274; p. 737.
Kelly, William M., assignor to American Type Founders Company, Jersey City, N. J. Gripper-actuating mechanism. No. 1,339,654; May 11; v. 274; p. 264.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,339,030; May 4; v. 274; p. 70.
Kemble, William I., San Francisco, Calif. Lamp-base. No. 1,339,351; May 4; v. 274; p. 129.
Keminskis, Joe, Kenosha, Wis. Wheelbarrow. No. 1,340,898; May 25; v. 274; p. 626.
Kemp, Walter D., New York, N. Y. Educational game-board. No. 1,339,399; May 11; v. 274; p. 214.
Kemper, Charles H., Oakland, Calif. Bracelet-gage. No. 1,339,896 May 11; v. 274; p. 309.
Kendall, Edward D., Elizabeth, N. J., assignor of one-half to Haggin Estate, Inc. Composition of matter for use in welding steels and iron. No. 1,338,736; May 4; v. 274; p. 16.
Kendall, Ernest. (See Robinson, William H., assignor.)
Kendall, William G., Newark, N. J. Rouge-powder measure. No. 1,340,275; May 18; v. 274; p. 437.
Kennard, William W., Sewickley, Pa. Dirigible headlight. No. 1,339,352; May 4; v. 274; p. 129.
Kennedy, John S., Philadelphia, Pa. Gas-washing apparatus. No. 1,339,112; May 4; v. 274; p. 87.
Kennedy, William H., Chicago, Ill. Coupling. No. 1,341,135; May 25; v. 274; p. 672.
Kenney, Frank E., Portland, Oreg. Hydraulic donkey-engine. No. 1,340,547; May 18; v. 274; p. 489.
Kenney, James R., Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shaft-oscillator. No. 1,339,897; May 11; v. 274; p. 309.
Kenney, John J., assignor to Best Electric Company, Pittsburgh, Pa. Separable attachment-plug. No. 1,341,468; May 25; v. 274; p. 737.
Kenniker, Nicholas O., and F. A. Fritze, Jr., assignors to Durable Box Co., Chicago, Ill. Box. No. 1,340,119; May 11; v. 274; p. 352.
Kent, Arthur A., Rosemont, Pa. Electric igniting mechanism for internal-combustion engines. No. 1,341,136; May 25; v. 274; p. 672.
Kent, Leslie H. (See de Normanville, S. A., and Kent.)
Kent, William J., Brooklyn, N. Y. assignor to The Mechanical Rubber Company. Hoof-protector. No. 1,338,986; May 4; v. 274; p. 62.
Kenyon, Otis A., New York, N. Y. Multiple-arc welding. No. 1,340,056; May 11; v. 274; p. 339.
Kern, William L., Alameda, Calif. Bitstock. No. 1,341,180; May 25; v. 274; p. 681.
Kernen, Emil, Weiner, Ark. Manure-loader. No. 1,339,263; May 4; v. 274; p. 113.
Kernsten, Otto, Detroit, Mich. Commutator. No. 1,340,857; May 18; v. 274; p. 547.
Kerr, John H., Fort Mills, Corregidor, Philippine Islands. Combined line-reel and marker or chalker. No. 1,338,935; May 4; v. 274; 53.
Kershaw, William E., Philadelphia, Pa. Secondary or storage multivolt battery. No. 1,341,469; May 25; v. 274; p. 737.
Kessel, Frank, assignor to The Mansfield Lock Washer Company, Mansfield, Ohio. Lock-washer-making machine. No. 1,338,737; May 4; v. 274; p. 16.
Kettering, Charles F., assignor, by mesne assignments, to The Delco-Light Company, Dayton, Ohio. System of electrical generation and control. No. 1,338,987; May 4; v. 274; p. 62.
Kettering, Charles F., and W. A. Chryst, assignors, by mesne assignments, to Delco-Light Company, Dayton, Ohio. System of electrical generation. No. 1,341,327; May 25; v. 274; p. 709.
Keyes, Robert E. (See Lissauer, A. W., Fleisher, and Keyes.)
Kicklighter, Charles H., Macon, Ga. Joining metals by electric welding. No. 1,340,170; May 18; v. 274; p. 419.
Kidder, Arthur B. (See Berg, W. J., and Kidder.)
Kidwell, James A., Lakewood, Ohio. Check-cabinet. No. 1,340,231; May 18; v. 274; p. 430.
Kiefer, Otto G., assignor of one-third to A. Pfitzer, Chicago, Ill. Confectionery-machine. No. 1,341,137; May 25; v. 274; p. 673.
Kilian, Ernst B., Highland Falls, N. Y. Plate-lifter. No. 1,341,371; May 25; v. 274; p. 718.
Kilman, Emil. (See Ruhl, George W., assignor.)
Kimball, A., Company. (See Heine, Herman, assignor.)
Kimball, Earl H., assignor to Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engine. No. 1,339,517; May 11; v. 274; p. 237.
Kimber, Walter E., London, England. Drapery-curtain-pole fixture. No. 1,339,353; May 4; v. 274; p. 130.
Kimmel, J. L. (See Kaylor, William, assignor.)
Kimmel, Roger Q. (See Procunier, Frank G., assignor.)
Kincade, John M., Springfield, Ohio. Digging-machine. No. 1,341,138; May 25; v. 274; p. 673.

King, Alexander C. (See Le Cerf, Joseph E., assignor.)
King, Charles H., Ithaca, N. Y. Valve. No. 1,340,719; May 18; v. 274; p. 522.
King, Gustave A., Chicago, Ill. Toy. No. 1,340,394; May 18; v. 274; p. 460.
King, James B. (See Hughes W. E., and King.)
King, Percival F., Vancouver, British Columbia, Canada. Hospital-mattress. No. 1,341,564; May 25; v. 274; p. 756.
Kingsbury, Edward J. (See Kingsbury Harry T. and E. J.)
Kingsbury, Harry T. and E. J. Keene, N. H. Toy boat. No. 1,340,614; May 18; v. 274; p. 502.
Kinnaird, Robert S., assignor to Hide Leather & Belting Company, Indianapolis, Ind. Friction-facing on transmission-belting. No. 1,341,470; May 25; v. 274; p. 738.
Kinnear, Harry B., Massillon, and A. J. Townsend, Canton, Ohio. Furnace. No. 1,339,564; May 11; v. 274; p. 246.
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kinney, Charles, assignor of one-half to L. M. Ostrander, Elmira, N. Y. Tractor. No. 1,341,181; May 25; v. 274; p. 681.
Kinney, Charles, assignor of one-half to L. M. Ostrander, Elmira, N. Y. Plow. No. 1,341,182; May 25; v. 274; p. 682.
Kinney, Thaddeus, assignor of one-half to J. Garlock, Milwaukee, Wis. Nut. No. 1,339,113; May 4; v. 274; p. 87.
Kinoshita, Yokichi, Boston, Mass. Thumb-tack. No. 1,338,988; May 4; v. 274; p. 62.
Kirby, Champeau Co. (See Champeau, Lawrence X., assignor.)
Kissell, Isaac J., assignor of one-half to A. V. Smith, Colorado Springs, Colo. Circuit-closer for automobile-signals. No. 1,341,372; May 25; v. 274; p. 719.
Kiefnert, I. B., Rubber Company. (See Freeman, Rufus A., assignor.)
Kleidman, Joseph, New York, N. Y. Aeroplane. No. 1,340,450; May 18; v. 274; p. 471.
Klever, Archie, Hannibal, Mo. Spark-plug. No. 1,340,899; May 25; v. 274; p. 627.
Kline, James A., York, Pa., assignor, by mesne assignments, to L. V. Flechter & Company. Carbureter. No. 1,340,720; May 18; v. 274; p. 522.
Klingele, August, Lorain, Ohio. Pencil-holder. No. 1,341,509; May 25; v. 274; p. 745.
Klocke, William, New York, assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y. Forging. No. 1,338,779; May 4; v. 274; p. 24.
Knapp, John, Holland, Mich. Molding-machine. No. 1,339,354; May 4; v. 274; p. 130.
Knight, Harriet W., New York, N. Y. Ornamental telephone-concealing hood. No. 1,340,863; May 18; v. 274; p. 548.
Knoblock, James W., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Portable electric hand-lantern. No. 1,341,471; May 25; v. 274; p. 738.
Knoblock, James W., New York, assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Focusing device for projectors. No. 1,341,472; May 25; v. 274; p. 738.
Knott, Charles, New Madrid, Mo. Tractor. No. 1,341,428; May 25; v. 274; p. 729.
Kobert, Frank P., Amityville, N. Y. Process and machine for making certain articles of manufacture. No. 1,341,626; May 25; v. 274; p. 767.
Koch, Theodor, Newark, N. J., assignor to American Platinum Works. Alloy. No. 1,340,451; May 18; v. 274; p. 471.
Kochendorfer, Frederic S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding, polishing, and buffing machine equipment. No. 1,339,202; May 4; v. 274; p. 102.
Koehne, John B., New London, N. H. Appliance for men's trousers. No. 1,340,276; May 18; v. 274; p. 437.
Koehring Machine Company. (See Wetmore, Charles P., assignor.)
Kohlman, Dirk L., Dordrecht, Netherlands. Collapsible baby and wheeling chair and carriage. No. 1,339,355; May 4; v. 274; p. 130.
Koller, Oscar, New York, N. Y. Gearing. No. 1,341,237; May 25; v. 274; p. 692.
Komatar, Frank F., East Moline, Ill. Center-punch. No. 1,341,373; May 25; v. 274; p. 719.
Kometter, John, Jr., Milwaukee, Wis. Autoscope. No. 1,338,738; May 4; v. 274; p. 17.
Kondolf, George V., Rochester, N. Y. Slab or brick for driveways. No. 1,339,356; May 4; v. 274; p. 130.
Kopf, John C. (See McGinley, Thomas A., and Kopf.)
Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Ratchet-jack. No. 1,339,377; May 4; v. 274; p. 134.
Koppers Company, The. (See Darrin, Marc, assignor.)
Kopriva, Alvis F. (See Kopriva, Charles J., assignor.)
Kopriva, Charles J., New York, assignor to A. F. Kopriva, Stony Brook, N. Y. Ax. No. 1,339,357; May 4; v. 274; p. 130.
Kornsweet, Samiel A., Los Angeles, Calif. Sanitary ice-cream-cone holder. No. 1,338,833; May 4; v. 274; p. 34.
Kostlan, Frank, Traer, Iowa. Hinge. No. 1,341,374; May 25; v. 274; p. 719.
Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,341,214; May 25; v. 274; p. 688.
Kramer, Andrew A., Kansas City, Mo. Vehicle-tank construction. No. 1,341,215; May 25; v. 274; p. 688.
Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,341,216; May 25; v. 274; p. 688.
Krause, William P., Chicago, Ill., assignor to Mumford Molding Machine Company. Molding-machine. No. 1,340,658; May 18; v. 274; p. 511.
Krèe, Paul M., and F. Dauteuil, New York, N. Y. Automatic stop and start for phonographs. No. 1,339,203; May 4; v. 274; p. 102.
Krenz, Rudolph, assignor of one-half to F. H. Frissell, Middletown, Conn. Machine for loading machine-gun cartridge-belts. No. 1,339,204; May 4; v. 274; p. 103.
Krepps, Harry, Lewistown, Pa. Boring-head. No. 1,341,565; May 25; v. 274; p. 756.
Kresky, Theron J., assignor to E. C. Newton, Marysville, Calif. Magneto-governor. No. 1,339,655; May 11; v. 274; p. 264.
Krieg, Theodore F., Detroit, Mich. Fuel-oil burner. No. 1,339,358; May 4; v. 274; p. 131.
Kriel, John J. and O. J., Taylor, Tex. Cotton-chopper. No. 1,340,057; May 11; v. 274; p. 339.
Kriel, Otto J. (See Kriel, John J. and O. J.)
Kristofek, Frank J. (See Fischer, Howard L., assignor.)
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Match-box. No. 1,341,139; May 25; v. 274; p. 673.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Match-box. No. 1,341,140; May 25; v. 274; p. 673.
Kritikson, John, assignor to Illinois Pen Company, Chicago, Ill. Penholder-clip. No. 1,339,359; v. 274; p. 131.
Krueger, Carl E., Glenwood Springs, Colo. Attachment to telephones. No. 1,339,518; May 11; v. 274; p. 237.
Kryder, Frank L., Akron, Ohio, and E. W. Snyder, Indianapolis, Ind. Apparatus for reclaiming rubber waste. No. 1,340,776; May 18; v. 274; p. 532.
Kryder, Frank L., Akron, Ohio. Reclaiming and regenerating rubber waste. No. 1,340,777; May 18; v. 274; p. 533.
Kuever, Rudolph A. (See Dunlap, F. L., and Kuever.)
Kuhn, William O., Seattle, Wash. Driving mechanism for motor-vehicles. No. 1,341,217; May 25; v. 274; p. 688.
Kundtz Theodor Company, The. (See Dianiska, John, assignor.)
Kundtz, Theodor, Lakewood, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Cable-guide for drophead-sewing-machine cabinets. No. 1,338,834; May 4; v. 274; p. 34.
Kundtz, Theodor, Company, The. (See Kundtz, Theodor, assignor.)
Kunkel, Edward F. (See Schranck, E. V., and Kunkel.)
Kupfer, Samuel, New York, N. Y. Hand-guard for printing-presses. No. 1,338,780; May 4; v. 274; p. 25.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,488; May 18; v. 274; p. 478.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,900; May 25; v. 274; p. 627.
Laabs, Max A., assignor to American Optical Company, Southbridge, Mass. Testing process. No. 1,339,031; May 4; v. 274; p. 71.
La Chapelle, Andrew S., Detroit, Mich. Automobile-jack. No. 1,339,459; May 11; v. 274; p. 226.
La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole and making same. No. 1,341,059; May 25; v. 274; p. 658.
Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,340,961; May 25; v. 274; p. 638.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Wheel. No. 1,338,936; May 4; v. 274; p. 53.
La France, David J., and W. P. De Witt, Somerville, assignors to De Witt La France Co., Cambridge, Mass. Fountain-pen. No. 1,340,277; May 18; v. 274; p. 438.
La Grant, John H. (See Bailey, F. L. and La Grant.)
Lake, John L., and F. D. McMahon, Cleveland, Ohio. Tractor. No. 1,338,835; May 4; v. 274; p. 34.
Lamb, Morris C., London, England. Detanning chrome-leather. No. 1,340,721; May 18; v. 274; p. 522.
Lambert, Alvan R., Anderson, Ind. Air-cleaner for internal-combustion engines. No. 1,340,058; May 11; v. 274; p. 339.
Lambert, Zéphirin, assignor to J. E. McLaughlin, Grand Mére, Quebec, Canada. Pneumatic drill. No. 1,339,565; May 11; v. 274; p. 246.
La Montagne, Patrick P., Burbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine needle. No. 1,339,959; May 11; v. 274; p. 321.
Lamplough, Frederick, Feltham, assignor to Hydro-Dynamics, Limited, London, England. Hydraulic engine. No. 1,341,328; May 25; v. 274; p. 709.
Lamprecht, Emil, Philadelphia, Pa. Mouth-organ. No. 1,339,960; May 11; v. 274; p. 321.
La Munyon, Lynne, Soshone, Idaho. Bell-Ringer. No. 1,340,059; May 11; v. 274; p. 339.

Landa, Louis F., assignor of one-fourth to W. F. Schmalkuche and one-fourth to W. F. Schmalkuche, Jr., Flushing, N. Y. Spark-plug. No. 1,340,232; May 18; v. 274; p. 430.

Landenberger, Charles H., Philadelphia, Pa. Brooder No. 1,339,264; May 4; v. 274; p. 113.

Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Impregnating apparatus. No. 1,339,400; May 11; v. 274; p. 214.

Landers, Frary & Clark. (See Catlin, Hoyt, assignor.)

Landgrebe, Anton, New York, N. Y. Faucet. No. 1,340,060; May 11; v. 274; p. 340.

Landgrebe, Anton, New York, N. Y. Tube-cap. No. 1,340,061; May 11; v. 274; p. 340.

Landstra, Dirk S., South Orange, N. J. Molding plastic materials. No. 1,340,452; May 18; v. 274; p. 471.

Lane, Charles H., and J. H. Steele, Portland, Oreg. Nameplate. No. 1,340,778; May 18; v. 274; p. 533.

Lane, Frank A., Mendon, Mo. Pump-coupling. No. 1,338,739; May 4; v. 274; p. 17.

Lane, Henry M., Detroit, Mich. Conveying mechanism. No. 1,340,962; May 25; v. 274; p. 639.

Lanfear, Harold, Amberg, Wis. Comb-cleaner. No. 1,338,937; May 4; v. 274; p. 53.

Lang, George L., assignor to Splitdorf Electrical Company, Newark, N. J. Combined distributer and connector. No. 1,338,989; May 4; v. 274; p. 62.

Lang, Herbert, Oakland, Calif. Manufacture of iron and steel. No. 1,340,548; May 18; v. 274; p. 489.

Langdon, Jesse D., Waterville, Wash. Auxiliary device for gas-engines. No. 1,338,938; May 4; v. 274; p. 53.

Langeller, Antoine J. (See Brandt, C. A. W., and Langeller.)

Langston, Samuel M., Wenonah, assignor to Samuel M. Langston Company, Camden, N. J. Delivery-stand for rolled material. No. 1,339,460; May 11; v. 274; p. 226.

Langston, Samuel M., Company. (See Langston, Samuel M., assignor.)

Lanning, John G., Detroit, Mich. Safety-valve. No. 1,340,832; May 18; v. 274; p. 543.

Lapham, Frank W., Lake Beulah, Wis. Carbueting-screen for intake-valves. No. 1,340,062; May 11; v. 274; p. 340.

Lapointe, Francis J., Ann Arbor, Mich. Cutter-bar and bushing therefor. No. 1,339,656; May 11; v. 274; p. 264.

Lapointe, Francis J., Ann Arbor, Mich. Finishing-broach. No. 1,339,657; May 11; v. 274; p. 264.

Larkin, Elwood T. (See Criqui, C. A., and Larkin.)

Larner, Chester W., Philadelphia, Pa. Valve. No. 1,339,114; May 4; v. 274; p. 87.

La Salle Institute. (See Fraser, Joseph A., assignor.)

Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Apparatus for producing hydrochloric acid utilizing sludge acid. No. 1,339,519; May 11; v. 274; p. 237.

Latham, Albert, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,341,061; May 25; v. 274; p. 658.

Latier, Alexander, Jersey City, N. J. Calendar. No. 1,339,401; May 11; v. 274; p. 214.

Laughlin, Frank D. (See Hayes, B. P., and Laughlin.)

Launbranch, Malcolm E., Chicago, Ill. Electric sign. No. 1,339,566; May 11; v. 274; p. 246.

Lavenberg, Perry C., South Bend, Ind., assignor to Wirebounds Patents Company, Chicago, Ill. Box. No. 1,340,489; May 18; v. 274; p. 478.

Lavole, Alphonse J., Montreal, Quebec, Canada. Chuck. No. 1,341,015; May 25; v. 274; p. 649.

Law, George H., Portland, Me. Rolling automobile-jack. No. 1,339,827; May 11; v. 274; p. 296.

Lawa, Richard, New York, N. Y. Combination gas-range. No. 1,340,615; May 18; v. 274; p. 502.

Lawrence, John T., Inman, S. C. Seed-cotton culler. No. 1,340,063; May 11; v. 274; p. 340.

Laycock, Arthur M., Kingston, Pa. Roller-bearing. No. 1,338,939; May 4; v. 274; p. 53.

Layman, James C., Devilsfork, W. Va. Wire-winding device. No. 1,340,064; May 11; v. 274; p. 340.

Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,171; May 18; v. 274; p. 479.

Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,172; May 18; v. 274; p. 479.

Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,340,173; May 18; v. 274; p. 479.

Layman, Kent E., Cleveland, Ohio. Self-filling grease-gun. No. 1,338,743; May 4; v. 274; p. 18.

Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)

Layne, Mahlon E., Memphis, Tenn. Well-screen. No. 1,339,898; May 11; v. 274; p. 309.

Lazarides, Platon, New York, N. Y. Eraser-holding clip for pencils. No. 1,339,707; May 11; v. 274; p. 274.

Lea, Charles. (See Hathaway, E. F., and Lea.)

Leach, Corey, Capac, Mich. Clutch-control lever. No. 1,341,566; May 25; v. 274; p. 756.

Le Cerf, Joseph E., Raymond, Wash., assignor of one-half to A. C. King, San Diego, Calif. Receptacle. No. 1,339,899; May 11; v. 274; p. 310.

Le Craw, John W. (See Cazel, C. E., and Le Craw.)

Lee, Alfred W., Tarrytown, N. Y. Folding universal table. No. 1,340,065; May 11; v. 274; p. 340.

Lee, Bernard S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,341,183; May 25; v. 274; p. 682.

Lee, Charles H., Garwood, Mo. Paper-tile. No. 1,339,768; May 11; v. 274; p. 285.

Lee, William J., Eugene, Oreg. Flytrap. No. 1,340,779; May 18; v. 274; p. 533.

Lees-Bradner Company, The. (See Lees, Ernest J., assignor.)

Lees, Ernest J., assignor to The Lees-Bradner Company, Cleveland, Ohio. Drill-machine. No. 1,339,461; May 11; v. 274; p. 226.

Le Fevre, George A., Richmond Hill, N. Y., and W. B. Hutchinson, Newark, N. J., assignors to Paxflat Barrel and Crate Corporation. Container. No. 1,341,060; May 25; v. 274; p. 658.

Leger, Oswald C., Los Angeles, Calif. Billiard-cue construction and attaching the cue-tip. No. 1,340,395; May 18; v. 274; p. 461.

Leibundgut, Adolph. (See Reinhardt, C., and Leibundgut.)

Leigh, John S., Cincinnati, Ohio. Oil-refiner. No. 1,339,769; May 11; v. 274; p. 285.

Leister, William W. (See Seas, William J., assignor.)

Le Jeune, Charles A., Burton, La. Water-automobile. No. 1,341,375; May 25; v. 274; p. 719.

Lemle, William, Chicago, Ill. Theater-curtain-operating mechanism. No. 1,340,066; May 11; v. 274; p. 341.

Lemmon, Walter S., New York, N. Y. Resonant converter. No. 1,340,963; May 25; v. 274; p. 639.

Lennon, William, Manitou, Colo. Vaporizer for internal-combustion engines. No. 1,341,141; May 25; v. 274; p. 673.

Lenz, Ernst H. (See Bell, H., and Lenz.)

Lenzi, Dwight, Idaho Falls, Idaho. Apparatus for drying food. No. 1,339,032; May 4; v. 274; p. 71.

Leo, Isaac L. (See Normandy, Isaac, assignor.)

Leon, Kalman, Washington, D. C. Fishhook. No. 1,340,780; May 18; v. 274; p. 533.

Leonard, Elof R., Woodcliff, N. J. Fireproof door. No. 1,339,205; May 4; v. 274; p. 103.

Leonard, Elof R., Woodcliff, N. J. Fireproof partition. No. 1,339,360; May 4; v. 274; p. 131.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-registering device. No. 1,340,722; May 18; v. 274; p. 522.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-registering device. No. 1,340,723; May 18; v. 274; p. 522.

Lera, Peter, San Francisco, Calif. Rifle-grenade sight. No. 1,340,453; May 18; v. 274; p. 471.

Les Fleurs de Cristal. (See Véricel, Antoine, assignor.)

Leumann, Richard, Chailly sur Lausanne, Switzerland. Paper-feeding device for wrapping-machines. No. 1,341,184; May 25; v. 274; p. 682.

Levin, Harris, New York, N. Y. Finger-ring guard. No. 1,341,218; May 25; v. 274; p. 689.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulley-block. No. 1,339,931. May 11; v. 274; p. 316.

Levitan, Nathan A., New York, N. Y. Toilet article. No. 1,339,265; May 4; v. 274; p. 113.

Levy, Jennie, Philadelphia, Pa. Telephone-receiver holder No. 1,338,781; May 4; v. 274; p. 25.

Levy, Morris, Denver, Colo. Spring-wheel. No. 1,339,361; May 4; v. 274; p. 131.

Levy, William, Paterson, N. J. Railway-passenger-ticket holder. No. 1,340,724; May 18; v. 274; p. 523.

Lewis, Alfred A., Melbourne, and F. O. Dutton, Northcote, Victoria, Australia. Safety device or appliance for use with aeroplanes, airships, and other aircraft. No. 1,339,828; May 11; v. 274; p. 296.

Lewis, Charles W. New York, N. Y. Collapsible box. No. 1,341,429; May 25; v. 274; p. 729.

Lewis, Fred A., Millertown, Newfoundland. Billiard-cue chalker. No. 1,341,376 May 25; v. 274; p. 719.

Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem draft-rigging. No. 1,340,490; May 18; v. 274; p. 478.

Lewis, Harry A., Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electromagnet apparatus. No. 1,339,900; May 11; v. 274; p. 310.

Lewis, John D. P., St. Louis, Mo. Atomizing-primer for internal-combustion engines. No. 1,338,740; May 4; v. 274; p. 17.

Lewis, Leroy M., Philadelphia, Pa. Alarm-controlling mechanism. No. 1,339,567; May 11; v. 274; p. 247.

Lewis, Leroy M., Philadelphia, Pa. Fusible link and strut. No. 1,339,829; May 11; v. 274; p. 297.

Lewitzky, Lottie, Philadelphia, Pa. Baking-pan. No. 1,340,659; May 18; v. 274; p. 511.

Libbey-Owens Sheet Glass Company, The. (See Colburn, Irving W., assignor.)

Libby, Albion D. T., East Orange, and E. Borger, assignors to Splitdorf Electrical Company, Newark, N. J. Combined generator and timer-distributer bearing-head. No. 1,338,990; May 4; v. 274; p. 63.

Liberty Laboratories, Inc., The. (See Haessler, Paul, assignor.)

Liberty Radiator Company. (See Coffelder, Thomas N., assignor.)

Liberty Tool Company, The. (See Grimes, E. O., Jr., and Baltzley, assignor.)

Lidberg, Tiodolf, Chicago, Ill. Holder and carrier for blood-pipettes. No. 1,340,660; May 18; v. 274; p. 511.

Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Hydropneumatic device. No. 1,340,233; May 18; v. 274; p. 430.

Liebers, Earnest M., Minden, Nebr. Feeder for grain-separators. No. 1,339,206; May 4; v. 274; p. 103.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Single-roll crusher. No. 1,339,932; May 11; v. 274; p. 316.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Single-roll crusher. No. 1,339,933; May 11; v. 274; p. 316.

Ligon, Harry W., Atlanta, Ga., assignor to Continental Gin Company, Birmingham, Ala. Apparatus for handling cotton and the like. No. 1,340,964; May 25; v. 274; p. 639.

L'heureux, Joseph E., Manville, R. I. Sash-lock. No. 1,339,362; May 4; v. 274; p. 131.

Lilley, Alfred L., West Hartford, Conn. Toy or game. No. 1,340,278; May 18; v. 274; p. 488.

Lillie, William J. (See Derr, William R., assignor.)

Lilly, Thomas L., Minonk, Ill. Truck-hoist. No. 1,341,142; May 25; v. 274; p. 674.

Linberger, Silas C., assignor to The Carborundum Company, Niagara Falls, N. Y. Graphite articles and making the same. No. 1,339,266; May 4; v. 274; p. 114.

Lind, Sivert N., Streator, Ill. Line-lock. No. 1,340,851; May 18; v. 274; p. 546.

Lindahl, Erick P., Pleasant Ridge, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Coating apparatus and coating. No. 1,338,782; May 4; v. 274; p. 25.

Lindahl, Erick P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Coating apparatus. No. 1,338,940; May 4; v. 274; p. 53.

Lindahl, Erick P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Method of and apparatus for manufacturing glassware. No. 1,338,941; May 4; v. 274; p. 54.

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Running-gear for children's carriages and the like. No. 1,339,961; May 11; v. 274; p. 321.

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Carriage-top. No. 1,340,279; May 18; v. 274; p. 438.

Lindbloom, Ralph, St. Paul, Minn. Power transmission. No. 1,340,833; May 18; v. 274; p. 543.

Lindemann, A. J., & Hoverson Company. (See Lindemann, Albert J. and W. C., assignors.)

Lindemann, A. J., & Hoverson Company. (See Lindemann, Walter C., assignor.)

Lindemann, Albert J. and W. C., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Hydrocarbon-burner. No. 1,339,207; May 4; v. 274; p. 103.

Lindemann, Walter C. (See Lindemann, Albert J. and W. C.)

Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Oil heating stove. No. 1,339,208; May 4; v. 274; p. 103.

Lindstrom, Frank L., Bridgeport, Conn. Spring-movement for toy vehicles. No. 1,339,934; May 11; v. 274; p. 316.

Line Carrying Buoy Company. (See Crouch, William S., assignor.)

Line Drive Tractor, The. (See Jessen, James, assignor.)

Link, Anton, Chicago, Ill. Clamp. No. 1,339,830; May 11; v. 274; p. 297.

Linn, John, *et al.* (See Harp, William I., assignor.)

Linsley, Raymond B. (See Thompson, Harry E., Linsley, and Rix.)

Lionne, Ernest, Needham, assignor of one-fourth to A. E. Reinhardt, Lynn, one-fourth to W. J. DeWitt, and one-fourth to S. J. Heinrich, Newton, Mass. Protecting-covering for boots and shoes and other articles and preparing same. No. 1,339,462; May 11; v. 274; p. 227.

Lippert, Samuel, East Cleveland, Ohio. Condensing and vacuum pump. No. 1,339,402; May 11; v. 274; p. 215.

Lippitt, Elihu, Cleveland, Ohio, assignor of one-third to H. J. Huntington and one-third to S. W. Lippitt. Knitting-machine. No. 1,339,708; May 11; v. 274; p. 274.

Lippitt, Stephen W., *et al.* (See Lippitt, Elihu, assignor.)

Lipshitz, Benjamin, Brooklyn, N. Y. Combination bed stead and wardrobe. No. 1,338,741; May 4; v. 274; p. 17.

Lissauer, Adolph W., W. L. Fleisher, and R. E. Keyes, assignors to American Drying Processes, Inc., New York, N. Y. Desiccation. No. 1,339,115; May 4; v. 274; p. 87.

Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Guide for calenders. No. 1,340,234; May 18; v. 274; p. 430.

Livensparger, Daniel A., Battle Creek, Mich., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,339,209; May 4; v. 274; p. 104.

Livingston, Stanley D., Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated. Electric-switch lock. No. 1,339,267; May 4; v. 274; p. 114.

Ljungström, Frederik, Brevik, Lidingön, Sweden. Axial-flow turbine. No. 1,341,273; May 25; v. 274; p. 699.

Lloid, Benjamin, Corvallis, Idaho. Truss. No. 1,338,991; May 4; v. 274; p. 63.

Lloyd, Marshall B., Menominee, Mich. Method and means for producing woven reed articles. No. 1,339,063; May 4; v. 274; p. 77.

Lloyd, Marshall B., Menominee, Mich. Apparatus for producing woven reed articles. No. 1,339,064; May 4; v. 274; p. 78.

Lloyd, William, Hazleton, asignor to Coxe Travelling Grate Company, Port Carbon, Pa. Furnace. No. 1,340,549; May 18; v. 274; p. 490.

Lloyd, William, Hazleton, Pa. Furnace. No. 1,340,725; May 18; v. 274; p. 523.

Lobar, Abraham J., assignor to Joseph E. Sloe, New York, N. Y. Garment-hanger. No. 1,338,783; May 4; v. 274; p. 25.

Lobl, Frederick, Boston, Mass. Disinfectant and odorizer. No. 1,340,661; May 18; v. 274; p. 511.

Lobl, Frederick, Middleboro, Mass. Inhaler. No. 1,340,662; May 18; v. 274; p. 511.

Locke, Leslie L., Washington, D. C. Folding portable ironing-board. No. 1,339,831; May 11; v. 274; p. 297.

Lockewitz, Arthur E. C. and E. W. M., Bloomington, Ill. Spark-plug. No. 1,339,463; May 11; v. 274; p. 227.

Lockewitz, Edward W. M. (See Lockewitz, Arthur E. C. and E. W. M.)

Lockhart, Harold J., Parkersburg, W. Va. Band-wheel construction. No. 1,339,852; May 11; v. 274; p. 301.

Lockwood, Lee W., Minneapolis Minn. Combined rain and glare guard for the windshields of automobiles. No. 1,339,770; May 11; v. 274; p. 285.

Lockwood, Nelson A., Ogden, Utah. Knife-setting appliance. No. 1,339,210; May 4; v. 274; p. 104.

Locomotive Superheater Company. (See Brandt, C. A. W., and Langeller, assignors.)

Locomotive Superheater Company. (See Broido, Benjamin, assignor.)

Loeben, Gustave A., Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Cover for brushes. No. 1,341,329; May 25; v. 274; p. 710.

Lofstrand, Albin P., Edmonton, Alberta, Canada. Automatic grain-shocker. No. 1,340,781; May 18; v. 274; p. 533.

Lofton, Herbert M., Chattanooga, Tenn. Lathe. No. 1,338,742; May 4; v. 274; p. 17.

Logan, Albert E., Brooklyn, N. Y. Wheel-rim. No. 1,340,901; May 25; v. 274; p. 627.

Loggie, William J., Frankfort, Ky., assignor to Union Special Machine Company, Chicago, Ill. Folder or seam-opener for sewing-machines. No. 1,340,782; May 18; v. 274; p. 533.

Longcor, Frank P., Keokuk, Iowa. Track-level. No. 1,341,377; May 25; v. 274; p. 720.

Lorenz, Herman E. S., Chappaqua, N. Y. Coil-box protector. No. 1,339,568; May 11; v. 274; p. 247.

Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, Toledo, Ohio. Mechanism for transferring ware to leers. No. 1,338,992; May 4; v. 274; p. 63.

Lovell, John E., Hastings, Nebr. File-handle. No. 1,339,658; May 11; v. 274; p. 264.

Lowden, Hugh R., Denver, Colo. Drying materials. No. 1,339,771; May 11; v. 274; p. 286.

Lowe, David T., Ohiman, Ill. Churn. No. 1,340,491; May 18; v. 274; p. 479.

Lowenstein, Fritz, Brooklyn, N. Y. Radiosignaling apparatus. No. 1,339,772; May 11; v. 274; p. 286.

Lowman, Adouls G. E., Winnipeg, Manitoba, Canada. Game-board. No. 1,341,185; May 25; v. 274; p. 682.

Lowry, Emmet J., Dubuque, Iowa. Convertible car. No. 1,338,942; May 4; v. 274; p. 54.

Loyster, James A., Cazenovia, N. Y. Closure for bottles and jars. No. 1,340,783; May 18; v. 274; p. 534.

Lucas, Blaine, Harlowton, Mont. Stove attachment. No. 1,339,268; May 4; v. 274; p. 114.

Lucas, Henry M., Cleveland, Ohio. Power-press. No. 1,339,773; May 11; v. 274; p. 286.

Lucas, Henry M., Cleveland, Ohio. Power-press. No. 1,339,774; May 11; v. 274; p. 286.

Luckett, Philip A., Philadelphia, Pa. Undergarment. No. 1,339,116; May 4; v. 274; p. 88.

Ludlum Electric Furnace Corporation. (See Trembour, Max R., assignor.)

Luffman, Reginald J., *et al.* (See Forse, Lyndall, assignor.)

Luft, Edward, St. Louis, Mo. Metallic window-screen. No. 1,339,464; May 11; v. 274; p. 227.

Luke, Frederick, assignor of one-fourth to H. I. Grawcour, Geelong, Victoria, Australia. Economization of hydrocarbon-engine fuel. No. 1,339,465; May 11; v. 274; p. 227.

Lum, Walter O., Amsterdam, N. Y., assignor to General Electric Company. Controlling means for electric circuits. No. 1,339,466; May 11; v. 274; p. 227.

Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pile. No. 1,340,235; May 18; v. 274; p. 430.

Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,341,473; May 25; v. 274; p. 738.

Lundgaard, Ivar, Rochester, N. Y. Gas-burner. No. 1,340,902; May 25; v. 274; p. 627.

Lundin, Karl G., assignor of one-half to J. C. Morris, Detroit, Mich. Motor-vehicle construction. No. 1,339,269; May 4; v. 274; p. 114.

Lundy, Joseph G., Evergreen, Ala. Garden plow or cultivator. No. 1,340,784; May 18; v. 274; p. 534.

Luthy, Joseph O., San Antonio, Tex. Separator for storage-battery plates. No. 1,339,853; May 11; v. 274; p. 301.

Luttrell, Edward J., New York, N. Y. Plastic-block mold. No. 1,339,270; May 4; v. 274; p. 114.

Lynch, James H., Buffalo, N. Y. Switch-point protector. No. 1,341,330; May 25; v. 274; p. 710.

Lynde, Frederick C., Manchester, England. Pad used on crutches, artificial limbs, and sticks. No. 1,340,616; May 18; v. 274; p. 503.

Lynde, Frederick C., Manchester, England. Pad used on crutches, artificial limbs, and sticks. No. 1,340,617; May 18; v. 274; p. 503.

Lyon, Jesse D., assignor to the Fulname Company, Cincinnati, Ohio. Golf-ball marker. No. 1,339,569; May 11; v. 274; p. 247.

Lytle, John H., and J. J. McFarland, Milwaukee, Wis. Carbureter. No. 1,339,403; May 11; v. 274; p. 215.

McAllister, Thomas A., Augusta, Ga. Vulcanizing. No. 1,340,965; May 25; v. 274; p. 639.

McArdle, Fred W., Boston, Mass. Scale for weighing mail-matter. No. 1,340,280; May 18; v. 274; p. 438.

McAvoy, Francis J., Newark, N. J. Automatic train-stop. No. 1,340,068; May 11; v. 274; p. 341.

McCallister, Thomas F., Prineville, Oreg. Motor-tractor. No. 1,339,271; May 4; v. 274; p. 114.

McCallum, Herbert A., Yonkers, N. Y. View-finder for cameras. No. 1,340,618; May 18; v. 274; p. 503.

McCallum, Herbert A., Yonkers, N. Y. View-finder for cameras. No. 1,340,619; May 18; v. 274; p. 503.

McCarthy, William J., Ottawa, Ontario, Canada. Leaf-projecting device for loose-leaf binders. No. 1,341,062; May 25; v. 274; p. 659.

McClay, Samuel R., Canton, Ohio. Antislipping device for vehicle-wheels. No. 1,341,331; May 25; v. 274; p. 710.

McClellon, James M., Everett, Mass. Boiler and firebox construction. No. 1,341,474; May 25; v. 274; p. 739.

McClellon, James M., Everett, Mass. Boiler. No. 1,341,475; May 25; v. 274; p. 739.

McClenahan, Walter, San Francisco, Calif. Rail. No. 1,340,454; May 18; v. 274; p. 472.

McClintock, Aldyth, *et al.* (See McClintock, Charles D., assignor.)

McClintock, Charles D., deceased; Rio Grande Valley Bank & Trust Co., administrator, assignor to H. R. McClintock, El Paso, Tex., trustee of six-tenths for himself and four-tenths for M. B. McClintock and A. McClintock. Vaporizing liquids and apparatus used in connection therewith. No. 1,341,476; May 25; v. 274; p. 739.

McClintock, H. R., trustee, *et al.* (See McClintock, Charles D., assignor.)

McClintock, Mabel B., *et al.* (See McClintock, Charles D., assignor.)

McClosky, George J., assignor to Columbian Printing Company, Inc., Washington, D. C. Printing numbered bands. No. 1,341,186; May 25; v. 274; p. 682.

McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Brake for fire-shutters. No. 1,339,380; May 4; v. 274; p. 135.

McCollum, Ernest E., Mattoon, Ill. Shock-absorber. No. 1,341,274; May 25; v. 274; p. 699.

McConnell, George, Grand Rapids, Mich. Gluing-machine. No. 1,339,467; May 11; v. 274; p. 228.

McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)

McConway & Torley Company, The. (See Kelso, William, assignor.)

McConway & Torley Company, The. (See Regan, William J., assignor.)

McCoy, Joseph, Minneapolis, Minn. Apparatus for refrigeration. No. 1,339,659; May 11; v. 274; p. 264.

McCray, John M., Pueblo, Colo. Shoe-holder. No. 1,339,520; May 11; v. 274; p. 238.

McCullough, Alfred, Callery, Pa. Anti-skid attachment for vehicle-wheels. No. 1,339,854; May 11; v. 274; p. 301.

McDermott, Keen J., Cedar, Colo. Ditch-excavating machine. No. 1,338,784; May 4; v. 274; p. 25.

McDonald, Alexander, Detroit, Mich. Rotary engine. No. 1,341,332; May 25; v. 274; p. 710.

McDonough, Joseph G., Eau Claire, Wis. Lumber-marking machine. No. 1,340,966; May 25; v. 274; p. 640.

McDonough, Joseph G., Eau Claire, Wis. Lumber branding and rebranding machine for planing-mills and rollerbeds. No. 1,340,967; May 25; v. 274; p. 640.

McDowell, Robert H., Marshalltown, Iowa. Apparatus for drying and hardening corn. No. 1,341,275; May 25; v. 274; p. 699.

McElfresh, Franklin P., Elk Horn, Iowa. Truss. No. 1,341,333; May 25; v. 274; p. 711.

McEvilla, Walter H., Philadelphia, Pa. Shaving-brush. No. 1,339,065; May 4; v. 274; p. 78.

McEwen, Norman S., Nashville, Tenn. Timing device for cameras. No. 1,339,117; May 4; v. 274; p. 88.

McEwen, Willard M. (See Olson, Gustaf, assignor.)

McFarland, John J. (See Lytle, J. H., and McFarland.)

McGee, Richard T., Wheeling, W. Va. Die-holder. No. 1,339,363; May 4; v. 274; p. 132.

McGlehan, Patrick H., New York, N. Y. Machine for printing carpets, floor-rugs, &c. No. 1,338,785; May 4; v. 274; p. 25.

McGinley, Thomas A., Sewickley, and J. C. Kopf, Bellevue borough, Pa. Steering-gear. No. 1,341,334; May 25; v. 274; p. 711.

McGrory, Edward L. (See Wilcox, F. A., and McGrory.)

McIntosh, Frank E., assignor to Cone Carrier Corporation, Burlington, Vt. Ice-cream-cone carrier. No. 1,338,744; May 4; v. 274; p. 18.

McIntyre, Patrick J., Auburn, R. I., assignor to United Wire and Supply Company. Priming device. No. 1,340,281; May 18; v. 274; p. 438.

McKay, Paul W., trustee. (See Hamrod, Kirk, assignor.)

McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, London, England. Car for airships. No. 1,339,570; May 11; v. 274; p. 247.

McKee Glass Company. (See Wood, Arch K., assignor.)

McKenzie, Walter, Detroit, Mich. Tool-handle. No. 1,341,378; May 25; v. 274; p. 720.

McKerahan, George, Avonmore, Pa. Oxygen concentrator. No. 1,339,211; May 4; v. 274; p. 104.

McKune, Frank B., Hamilton, Ontario, Canada. Open-hearth furnace. No. 1,339,855; May 11; v. 274; p. 302.

McLaughlin, J. E. (See Lambert, Zéphirin, assignor.)

McLaughlin, Joseph H., Chicago, Ill. Attachment for slicing-machines. No. 1,339,901; May 11; v. 274; p. 310.

McLauthlin, Martin B., Malden, Mass., and A. K. Tylee, Montreal, Quebec, Canada. Selector for automatic hoisting apparatus. No. 1,341,143; May 25; v. 274; p. 674.

McLean, Philip S., Bloomfield, N. J. Music-roll. No. 1,340,175; May 18; v. 274; p. 420.

McMahon, Francis D. (See Lake, J. L., and McMahon.)

McManus, Charles E., New York, N. Y. Bottle-closure. No. 1,339,066; May 4; v. 274; p. 78.

McManus, Edward L., Southbridge, Mass. Fly-guard. No. 1,340,069; May 11; v. 274; p. 341.

McMinn, Stafford A., London, England. Refractory cement. No. 1,341,510; May 25; v. 274; p. 745.

McMullen, William H., Houston, Tex. Rudder-bar for aeroplanes. No. 1,341,567; May 25; v. 274; p. 756.

McMullin, Joseph B., assignor to Western Manufacturing Co., Oskaloosa, Iowa. Tire-pump connection. No. 1,340,785; May 18; v. 274; p. 534.

McNeel, Grant, North Platte, Nebr. Decarbonizer attachment for engines. No. 1,338,993; May 4; v. 274; p. 63.

McNeil, Roderick C. (See Josephson, Harry, assignor.)

McNeill, Dennis, Huntington, W. Va. Phonograph attachment. No. 1,341,511; May 25; v. 274; p. 745.

McPheeters, Adam A., Cananea, Mexico. Superfloor structure. No. 1,341,187; May 25; v. 274; p. 683.

McQueen, Ulysses G., New York, N. Y. Hinge. No. 1,341,063; May 25; v. 274; p. 659.

McQuilan, Thomas H., Hawthorn, Victoria, Australia. Combination suspenders and belt. No. 1,341,568; May 25; v. 274; p. 756.

MacDonald, Kenneth P., Lincoln, Nebr. Automatic self-locking differential gearing. No. 1,341,276; May 25; v. 274; p. 699.

MacEwan, Robert S., Troy, N. Y. Reamer-frame. No. 1,339,118; May 4; v. 274; p. 88.

MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical device. No. 1,339,902; May 11; v. 274; p. 310.

MacGregor, John G., Pequannock, N. J. Grease-gun. No. 1,340,726; May 18; v. 274; p. 523.

MacGregor, Robert, Port Glasgow, Scotland. Telemotor. No. 1,340,727; May 18; v. 274; p. 523.

MacIlwaine, George W., Hebburn, England. Supporting of outside staging used during the construction of ships or other structures. No. 1,341,335; May 25; v. 274; p. 711.

Mackenrot, Percy W., Vancouver, British Columbia, Canada. Salting-machine. No. 1,339,212; May 4; v. 274; p. 104.

Mackenzie, Alexander S., assignor to Texas Oil Well Pump Company, Houston, Tex. Pump-plunger. No. 1,338,943; May 4; v. 274; p. 54.

Macleod, Donald K. (See Blair, D. E., and Macleod.)

Macloskie, George, Erie, Pa., assignor to General Electric Company. Air-brake system. No. 1,339,962; May 11; v. 274; p. 322.

Macpherson, Byron, Roxbury, assignor, by mesne assignments, to Mica Condenser Company Ltd., Boston, Mass. Condenser and making same. No. 1,341,336; May 25; v. 274; p. 711.

Maddox, Robert D., U. S. Army. Arm-abduction splint. No. 1,340,630; May 18; v. 274; p. 505.

Madigan, Thomas J., Brooklyn, assignor of one-fourth to J. O. Schwank, New York, N. Y. Battery-hand-lamp. No. 1,340,550; May 18; v. 274; p. 490.

Madsen, Chresten T., Oakland, Calif. Cork-extractor. No. 1,340,551; May 18; v. 274; p. 490.

Maehler, Arthur, Chicago, Ill. Sectional oven. No. 1,339,601; May 11; v. 274; p. 253.

Magee, Leroy, Collins, Miss. Gate-latch. No. 1,341,569; May 25; v. 274; p. 757.

Mahan, Chancy E., Shelbyville, Ill. Antiskid device for automobile-wheels. No. 1,339,963; May 11; v. 274; p. 322.

Mahan, Peter J., Philadelphia, Pa. Truss. No. 1,340,903; May 25; v. 274; p. 627.

Mailloux, Harvey A., Haverhill, Mass. Time-controlled furnace-regulator. No. 1,339,468; May 11; v. 274; p. 228.

Maire, Auguste, Argenteuil, France, assignor to Societe Lorraine des Anciennes Etablissements de Dietrich & Cie., de Luneville, Paris, France. Special design for ball-bearings and thrust-bearings. No. 1,340,663; May 18; v. 274; p. 512.

Majewski, Frank, Chicago, Ill. Dancing-figure toy. No. 1,338,944; May 4; v. 274; p. 54.

Makepence, Bertrand L., Inc. (See Heinrich, Carl, assignor.)

Malmberg, Anders G., Austin, Tex. Shoe-sewing-machine attachment. No. 1,341,570; May 25; v. 274; p. 757.

Malone, James H. (See Peck, Frederick G., assignor.)

Maloney, William T., Waterbury, Conn., assignor to Robert H. Ingersoll & Bros., New York, N. Y. Dial and dial-fastener. No. 1,338,745; May 4; v. 274; p. 18.

Maltz, Meyer, assignor of one-half to B. M. Arnesen and one-half to W. C. Utes, Chicago, Ill. Phonograph-tone modifier. No. 1,339,404; May 11; v. 274; p. 215.

Manlet, Peter L., St. Paul, Minn. Automatic stop for elevators. (Reissue.) No. 14,853; May 4; v. 274; p. 135.

Manley, Ralph J., Iowa City, Iowa. Lock for shift-levers. No. 1,338,945; May 4; v. 274; p. 54.

Mann, Charles B., *et al.* (See Shaffer, Richard M., assignor.)

Mann, Charles B, Jr. (See Shaffer, Richard M., assignor.)

Manning, Michael, Newark, N. J. Pocket tool-holder. No. 1,339,213; May 4; v. 274; p. 104.

Mansfield Lock Washer Company, The. (See Kessel, Frank, assignor.)

Manyak, Andrew and M., Nanty Glo, Pa. Adjustable screen. No. 1,341,188; May 25; v. 274; p. 683.

Manyak, Mary. (See Manyak, Andrew and M.)

Manzie, Angelo W., Newport News, Va. Toy. No. 1,340,786; May 18; v. 274; p. 534.

Marek, Frank, Los Angeles, Calif. Cornucopia-dispenser. No. 1,339,067; May 4; v. 274; p. 78.

Marien, Charles A. (See Franz, John W., assignor.)

Markel, Edwin M. (See Davis, Noah W., assignor.)

Markem Machine Company. (See Robbins, Charles F., assignor.)

Markham, Elnathan F., Kenosha, Wis. Clothesline-supporter. No. 1,340,070; May 11; v. 274; p. 341.

Markmann, Daniel H., and M. A. Demmler, St. Louis, Mo. Velocipede-horse. No. 1,340,282; May 18; v. 274; p. 439.

Markoe, Arthur, *et al.* (See Flagstad, Cornell, assignor.)

Marquardt, Emil, Lemon Grove, Calif. Cultivator. No. 1,341,064; May 25; v. 274; p. 659.

Marsh, Elsie D., Watervliet, N. Y. Child's waterproof diaper. No. 1,339,602; May 11; v. 274; p. 253.

Marshall, Sylvester, Athens, Ohio. Grading or separating machine. No. 1,341,571; May 25; v. 274; p. 757.

Martin, George W., Philadelphia, N. Y. Chair. No. 1,339,068; May 4; v. 274; p. 78.

Martin, James P., Lancaster, Pa., assignor to R. C. Penfield, Chicago, Ill. Pipe-rack drier-car. No. 1,339,119; May 4; v. 274; p. 88.

Martin, John M., Dallas, Tex. Roofing-tile. No. 1,339,033; May 4; v. 274; p. 71.

Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Code-ringing telephone system. (Reissue.) No. 14,863; May 25; v. 274; p. 767.

Martin, Thomas N., Mountain Home, Ark. Adjustable thrust-bearing for crank-shafts. No. 1,340,396; May 18; v. 274; p. 461.

Marx, George G., Detroit, Mich. Iron composition. No. 1,339,469; May 11; v. 274; p. 228.

Marx, Gustave C., assignor to Diehl Manufacturing Company, Elizabeth, N. J. Motor-support. No. 1,341,477; May 25; v. 274; p. 739.

Mason, Jason B., assignor to Reed Foundry & Machine Co., Kalamazoo, Mich. Tractor-plow. No. 1,339,603; May 11; v. 274; p. 254.

Mason, Ralph B., Somerset, Pa. Sheaf-distributer for threshers. No. 1,341,238; May 25; v. 274; p. 692.

Mason, Ralph B., Somerset, Pa. Container for sheaf-loaders. No. 1,341,239; May 25; v. 274; p. 692.

Massillon Wire Basket Co., The. (See Schworm, Clarence W., assignor.)

Massoll, Curtis A., assignor of one-half to J. A. Whittaker, Detroit, Mich. Latch. No. 1,338,689; May 4; v. 274; p. 7.

Mathias, Berton M., Minneapolis, Minn. Rod-splicing clamp. No. 1,338,746; May 4; v. 274; p. 18.

Mathias, Berton M., Minneapolis, Minn. Mud-lug. No. 1,340,834; May 18; v. 274; p. 543.

Mathieson Alkali Works (Inc.), The. (See Gegenheimer, R. E., and Mauran, assignors.)

Mathy, Maurice, Liege, Belgium. Furnace for heating rods and the like. No. 1,339,034; May 4; v. 274; p. 71.

Mattingley, Ray S., Rockport, Ind. Cultivator. No. 1,341,240; May 25; v. 274; p. 693.

Mauclaire, Raymond, Asnières, and L. Delamotte, Paris, France. Auto-propelled vehicle. No. 1,341,379; May 25; v. 274; p. 720.

Mauran, Max. (See Gegenheimer, R. E., and Mauran.)

Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Centrifugal apparatus with planetary movement. No. 1,339,272; May 4; v. 274; p. 114.

Maxcy, Warren G., and W. A. Rideout, Oshkosh, Wis. Door-bottom weather-strip. No. 1,339,775; May 11; v. 274; p. 286.

Maxwell, George S., assignor to A. Ralph Serven, trustee, Washington, D. C. Internal-combustion engine. No. 1,339,035; May 4; v. 274; p. 71.

Maxwell, James G. (See Fidler, F., and Maxwell.)

Mayer, William G., Pittsburgh, Pa. Supporting connection for vehicle-bodies. No. 1,339,521; May 11; v. 274; p. 238.

Mayland, Niels J., Newell, Iowa. Antiskid-chain tightener. No. 1,341,241; May 25; v. 274; p. 693.

Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Thermostatic fuel-regulating device for gas-ovens. No. 1,339,964; May 11; v. 274; p. 322.

Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Uniting dissimilar metals. No. 1,341,337; May 25; v. 274; p. 711.

Mead, Ruben J. (See Browne, Henry V., assignor.)

Meadoff, Abraham S., assignor to Hudson Metal Bed Co., Inc., New York, N. Y. Auxiliary heating system. No. 1,341,144; May 25; v. 274; p. 674.

Mears, Robert S., Arkansas City, Kans. Combination boiler and still. No. 1,339,470; May 11; v. 274; p. 228.

Mechanical Rubber Company, The. (See Kent, William J., assignor.)

Mechanics Machine Company. (See Faust, L., and Anderson, assignors.)

Mecky, A., Company. (See Papini, Antonio, assignor.)

Medart, Fred, Manufacturing Company. (See Medart, Philip S., assignor.)

Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Swing. No. 1,340,904; May 25; v. 274; p. 627.

Medley, Harry L., Los Angeles, Calif. Artificial bait. No. 1,341,618; May 25; v. 274; p. 765.

Mehring, William M., Keymar, Md. Portable cow-milker. No. 1,341,430; May 25; v. 274; p. 729.

Meier, Wilhelm H. (See Smithback, N., and Meier.)

Melanson, Philip P., Moncton, New Brunswick, Canada. Roof-bracket. No. 1,340,492; May 18; v. 274; p. 479.

Melland, William. (See Nield, William H., assignor.)

Mensch, Samuel H. (See Schweyer, Henry A., assignor.)

Mercer Tire Company. (See Dech, Henry, assignor.)

Meredith, John D., Wichita Falls, Tex. Liquid-measuring device. No. 1,341,189; May 25; v. 274; p. 683.

Merrell, Charles F., Jasper, Mo., and E. E. Hall, Bayard, Kans. Cattle-flytrap. No. 1,340,071; May 11; v. 274; p. 342.

Merrell, Irving S., Syracuse, N. Y. Communication-controlling device. No. 1,340,552; May 18; v. 274; p. 490.

Merriam, Arthur L. (See Gehl, M. L., Merriam, and Gehl.)

Merrick, Frank W., Boston, Mass. Leather-edge-finishing machine and method therefor. No. 1,339,776; May 11; v. 274; p. 286.

Merrill, George S. (See Blair, F. P., Dows, and Merrill.)

Merritt, Robert W., New York, N. Y. Garter. No. 1,340,455; May 18; v. 274; p. 472.

Merrow, Joseph M., assignor to The Merrow Machine Company, Hartford, Conn. Lining for packing-boxes. No. 1,340,968; May 25; v. 274; p. 640.

Merrow Machine Company, The. (See Merrow, Joseph M., assignor.)

Mersfelder, William L., assignor to Detroit Stove Works, Detroit, Mich. Automatic damper control. No. 1,339,571; May 11; v. 274; p. 247.

Messick, Turner B. (See Hyman, H. R., and Messick.)

Meston, Archibald F., assignor to Research Corporation, New York, N. Y. Means for removing deposits from electrodes. No. 1,339,471; May 11; v. 274; p. 228.

Metallograph Corporation, The. (See Erdoes, J., and Sas, assignors.)

Metals Extraction Corporation, The. (See Sulman, Henry L., and Field, assignors.)

Metcalf, Maurice A. (See Sabbag, Litfallah G., assignor.)

Metropolitan Sewing Machine Corporation. (See Weis, Albert H., assignor.)

Metzger, Johann. (See Züst, P., and Metzger.)

Metzger, Sylvester G., Delphos, Ohio. Power device. No. 1,340,620; May 18; v. 274; p. 503.

Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regenerating system. No. 1,339,903; May 11; v. 274; p. 310.

Meyer, Philip, Newark, N. J. Pipe-testing and leak-finding device. No. 1,340,176; May 18; v. 274; p. 420.

Meyer, Robert, Mulheim-Ruhr, Germany, assignor, by mesne assignments, to Worthington Pump and Machinery Corporation, New York, N. Y. Automatic plate-valve. No. 1,341,145; May 25; v. 274; p. 674.

Meyer, Theodore, Birmingham, Ala., assignor of one-half to W. Amott, Salt Lake City, Utah. Automobile-tire. No. 1,341,380; May 25; v. 274; p. 720.

Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,341,065; May 25; v. 274; p. 659.

Meyers, Alfred M., Merriam, Kans., assignor to The Kansas City Structural Steel Company, Kansas City, Mo. Bending-machine. No. 1,338,946; May 4; v. 274; p. 55.

Meyers, Frank, Laurel, Oreg. Compound implement. No. 1,339,405; May 11; v. 274; p. 215.

Mica Condenser Company, Ltd. (See Macpherson, Byron, assignor.)

Middlebrooks, James M., Birmingham, Ala. Actuator for traffic-signals. No. 1,339,660; May 11; v. 274; p. 265.

Middleton, John R. (See Constantinesco, G., and Middleton.)

Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)

Miers, Albert L., Indianapolis, Ind. Automobile-door bumper. No. 1,340,621; May 18; v. 274; p. 504.

Mikkin, Carl A., Olmstead, Ill. Hame and trace connector. No. 1,339,777; May 11; v. 274; p. 287.
Miles, John H., Trinity Center, Calif. Thawing ground. No. 1,339,036; May 4; v. 274; p. 72.
Miles, Percival W., Wilkes-Barre, Pa. Sanding device. No. 1,340,728; May 18; v. 274; p. 523.
Miley, Benjamin, Walla Walla, Wash. Nut-lock. No. 1,339,120; May 4; v. 274; p. 88.
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,341,512; May 25; v. 274; p. 745.
Miller, Charles F., Lancaster, Pa., assignor to M. Smithey, Lawrenceville, Va. Odometer. No. 1,340,493; May 18; v. 274; p. 479.
Miller, Daniel D., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,339,778; May 11; v. 274; p. 287.
Miller, Emmett S., Chicago, Ill. Elevator-lock. No. 1,340,664; May 18; v. 274; p. 512.
Miller, George W., Rochester, N. Y. Wooden-sole working-shoe. No. 1,338,947; May 4; v. 274; p. 55.
Miller, Guy F., Traverse City, Mich. Fire-alarm switch. No. 1,340,729; May 18; v. 274; p. 523.
Miller, Henry, assignor to A. O. Smith Corporation, Milwaukee, Wis. Offsetting-press. No. 1,340,138; May 11; v. 274; p. 355.
Miller, Jacob H., Cresson, Pa. Lid for grease-cups. No. 1,341,190; May 25; v. 274; p. 683.
Miller, Jan, Brooklyn, N. Y. Trolley-harp. No. 1,340,456; May 18; v. 274; p. 472.
Miller, John C., Ludlow, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Pasteurizer. No. 1,340,177; May 18; v. 274; p. 420.
Miller, John G., Waterloo, Iowa. Machine for forming postholes. No. 1,338,948; May 4; v. 274; p. 55.
Miller, John M., Sewickley, Pa. Liquid-vending apparatus. No. 1,339,522; May 11; v. 274; p. 238.
Miller, John S., Jr. (See Ollensis, G. L., and Miller.)
Miller, Julius, Los Angeles, Calif. Safety-drive for meat-cutters. No. 1,339,273; May 4; v. 274; p. 115.
Miller, Samuel W., Rochester, N. Y. Piping system. No. 1,338,994; May 4; v. 274; p. 63.
Miller, Thomas S., South Orange, N. J. Marine cableway. (Reissue.) No. 14,858; May 18; v. 274; p. 549.
Mills, Cecil J., Whangarei, New Zealand. Fountain shoe-brush. No. 1,340,283; May 18; v. 274; p. 439.
Mills Woven Cartridge Belt Company. (See Jennings, Victor H., assignor.)
Mills Woven Cartridge Belt Company. (See Spalding, George W., assignor.)
Mills Woven Cartridge Belt Company. (See Sullivan, Cecelia L., assignor.)
Milner, Harry L., Manchester, and A. R. Beeby, South Farnborough, England. Valve mechanism of internal-combustion engines. No. 1,339,406; May 11; v. 274; p. 215.
Milton, Fred C., Eastside, Oreg. Staging. No. 1,339,661; May 11; v. 274; p. 265.
Miner, William H. (See Bock, William A., assignor.)
Miner, William H. (See Lewis, Goodrich Q., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Miner, William H. (See Strid, Sven J., assignor.)
Minerals Separation North American Corporation. (See Seale, Harry V., and Sheilshear, assignors.)
Minnesota Cement Products Company. (See Perl, E. G., and Boss, assignors.)
Minter, John E., Columbus, Ga., assignor to W. S. Dickey, Kansas City, Mo. Automatic and intermittent brander for socket sewer-pipes. No. 1,340,969; May 25; v. 274; p. 640.
Mirk, Paul, New York, N. Y. Thermostatic valve. No. 1,341,016; May 25; v. 274; p. 649.
Mitchell, Ardon M., Tuckahoe, Mohegan Heights, N. Y., assignor to Mitchell and Grenelle, Inc. Separating magnesium from dolomite. No. 1,340,905; May 25; v. 274; p. 628.
Mitchell and Grenelle, Inc. (See Mitchell, Ardon M., assignor.)
Mitchell, Moorehouse, Quebec, Quebec, Canada. Fastener for shuttle-tips. No. 1,339,572; May 11; v. 274; p. 248.
Mitchell, William C., Grandview, Tenn. Wire-stretcher. No. 1,339,407; May 11; v. 274; p. 216.
Mix, Melville W., Mishawaka, Ind. Airplane or analogous strut member. No. 1,338,836; May 4; v. 274; p. 34.
Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,339,214; May 4; v. 274; p. 105.
Moehle, Walter, Brooklyn, N. Y. Hot-water or ice bag. No. 1,340,236; May 18; v. 274; p. 431.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,339,121; May 4; v. 274; p. 89.
Mohler, Charles M., Richmond, Ind. Spring-saddle and shock-absorber. No. 1,339,779; May 11; v. 274; p. 287.
Mohn, Augustus A., London, England. Liquid-hydrocarbon burner of the injection type. No. 1,339,709; May 11; v. 274; p. 274.
Mojonnier, Oliver W., Oak Park, Ill. Can-polishing machine. No. 1,338,949; May 4; v. 274; p. 55.
Money, Chester E., Chicago, Ill. Cloth-winding machine. No. 1,340,178; May 18; v. 274; p. 420.
Monitor Controller Company of Baltimore. (See Whittingham, George H., assignor.)
Monitor Stove & Range Company, The. (See Doyle, W. J., and Wollenhaupt, assignors.)
Monkhorst, Hermanus G., Delft, Netherlands. Automatic corking-machine. No. 1,339,904; May 11; v. 274; p. 310.
Monkhorst, Hermanus G., Delft, Netherlands. Tube-knocker. No. 1,341,277; May 25; v. 274; p. 699.
Monolithic Machine Company. (See Goodlett, Edgar N., assignor.)
Monteith, Caroline, South Orange, N. J. Juvenile printing-block. No. 1,340,672; May 11; v. 274; p. 342.
Montgomery, Zach J., Frankfort, Ky. Insole for shoes. No. 1,340,906; May 25; v. 274; p. 628.
Montross, Frederick L., assignor of one-half to himself and one-half to H. A. Montross, Camden, N. J. Exhaust-gas heater for automobiles. No. 1,339,122; May 4; v. 274; p. 89.
Montross, Harry A. (See Montross, Frederick L., assignor.)
Moo-V Doll Manufacturing Company, The. (See Duff, Michael J., assignor.)
Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)
Moore, Charles B., Evanston, Ill. Rail-anchor. No. 1,339,123; May 4; v. 274; p. 89.
Moore, George, Joplin, Mo. Liquid-supply-control apparatus. No. 1,338,995; May 4; v. 274; p. 64.
Moore Steam Turbine Corporation. (See Spicer, Elmer D., assignor.)
Moore, Thomas C., San Francisco, Calif. Door-securer. No. 1,339,856; May 11; v. 274; p. 302.
Moore, Thomas C., San Francisco, Calif. Rope and cable attachment. No. 1,340,730; May 18; v. 274; p. 524.
Moore, Thomas M., New York, N. Y. Bottle-stopper. No. 1,340,237; May 18; v. 274; p. 431.
Moore, William H., Jr., Little Rock, Ark. Bumper. No. 1,341,572; May 25; v. 274; p. 757.
Moorman, Thomas L., Farmville, Va. Battery-box. No. 1,338,690; May 4; v. 274; p. 8.
Moran, William H., Wilkinsburg, Pa. Machine attachment. No. 1,341,066; May 25; v. 274; p. 659.
Morange, Albert S., Northampton, Mass. Cover-remover. No. 1,341,513; May 25; v. 274; p. 745.
Morey, Chester T., Providence, R. I. Apparatus for sorting machine elements, &c. No. 1,341,278; May 25; v. 274; p. 709.
Morey, Roy C., Lincoln, Nebr. Shock-absorber; No. 1,339,780; May 11; v. 274; p. 287.
Morgan, Benjamin J., Des Moines, Iowa. Railway-frog. No. 1,338,786; May 4; v. 274; p. 26.
Morgan, Edmund C., Chicago, Ill. Mining and loading machine. No. 1,340,731; May 18; v. 274; p. 524.
Morgan, Thomas, Worcester, Mass. Machine for making popcorn. No. 1,339,662; May 11; v. 274; p. 265.
Moritz, John, Lebanon, Pa. Hair-lock coat-front. No. 1,339,274; May 4; v. 274; p. 115.
Morley, Harry J., and G. L. Green, Logan, Ohio. Rivet-head catcher. No. 1,340,787; May 18; v. 274; p. 534.
Morris, Edgar F., Pittsburgh, Pa. Rail-joint. No. 1,341,573; May 25; v. 274; p. 757.
Morris, Harry, Haddonfield, N. J. Flame-protector. No. 1,339,215; May 4; v. 274; p. 105.
Morris, Jolly L. (See Allen, C. H., and Morris.)
Morris, Joseph C. (See Lundin, Karl G., assignor.)
Morris, Lute P. (See Thompson, R. A., and Morris.)
Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Fan-belt guide for Ford and other cars. No. 1,339,408; May 11; v. 274; p. 216.
Morrison, Abraham L., Dubuque, Iowa. Headlight-glass. No. 1,339,604; May 11; v. 274; p. 254.
Morrison, Charles H., and F. H. Nicholson, New Haven, Conn. Signal apparatus. No. 1,340,970; May 25; v. 274; p. 640.
Morrison, Egbert R., Cleveland, Ohio. Steam-boiler. (Reissue.) No. 14,859; May 18; v. 274; p. 550.
Morrow, James G., Hamilton, Ontario, Canada. Grip for test-pieces. No. 1,341,431; May 25; v. 274; p. 730.
Morse, John B. (See Sherlock, C. B., and Morse.)
Morse, Lawrence H., and J. J. Tracy, Cleveland, Ohio; said Morse assignor to said Tracy. Windshield-cleaner. No. 1,339,216; May 4; v. 274; p. 105.
Morton, Walter S., Harrisburg, Pa. Motor-truck construction and drive. No. 1,339,124; May 4; v. 274; p. 89.
Morton, Walter S., Harrisburg, Pa. Steering mechanism for motor-trucks. No. 1,339,125; May 4; v. 274; p. 89.
Moseman, John H., *et al.* (See Herr, Abram B., assignor.)
Moses, Alice, Bennington, Vt. Button-fastener. No. 1,340,073; May 11; v. 274; p. 342.
Moskowitz, Louis. (See Cohon, Benjamin J., assignor.)
Moss, Joseph W., Beacon, N. Y. Universal quick-thaw torch. No. 1,341,514; May 25; v. 274; p. 746.
Motion Picture Apparatus Co. (See Pennypacker, Edward J., assignor.)
Motors Lock Company of America. (See Swyers, Brice P., assignor.)
Motte, Charles M., Paris, France. Tractor comprising driving and steering wheel. No. 1,338,837; May 4; v. 274; p. 34.
Mount, William D., Lynchburg, Va. Flaker. No. 1,340,732; May 18; v. 274; p. 524.
Mueller, Charles W., Jersey City, N. J. Fish and crab trap. No. 1,339,275; May 4; v. 274; p. 115.
Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
Muhlfeld, John E., Scarsdale, N. Y. Baffle-wall. No. 1,340,907; May 25; v. 274; p. 628.

Mulder, Thomas P., Kalamazoo, Mich. Tool for applying tips to laces. No. 1,339,217; May 4; v. 274; p. 105.
Müller, Josef, Frauenfeld, Switzerland. Type-tie. No. 1,341,574; May 25; v. 274; p. 757.
Müller, Karl. (See Goldschmidt, H., and Müller.)
Multiple Storage Battery Company. (See Sturges, Norman D., assignor.)
Mumford Molding Machine Company. (See Krause, William P., assignor.)
Munger, Eugene, Birmingham, Ala., assignor to Continental Gin Company. Cotton-tramper. No. 1,340,971; May 25; v. 274; p. 641.
Munn, William B., assignor of one-half to M. Scharff, Memphis, Tenn. Wrapping-machine. No. 1,340,665; May 18; v. 274; p. 512.
Munters, Anders J. E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Strainer. No. 1,339,037; May 4; v. 274; p. 72.
Murphy, Albert C., New York, N. Y. Reclaimed axle. No. 1,341,432; May 25; v. 274; p. 730.
Murphy Engineering Co., The. (See Murphy, Peter W., assignor.)
Murphy, Peter W., assignor to The Murphy Engineering Co., Detroit, Mich. Cam. No. 1,339,276; May 4; v. 274; p. 115.
Murphy, Thomas W., and W. Czarnecki, Philadelphia, Pa. Spray-nozzle. No. 1,340,136; May 11; v. 274; p. 355.
Murray, James G. (See Sawders, F. P., and Murray.)
Murray, James P. (See Kelly, Daniel R., assignor.)
Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
Murray, Peter W., Buffalo, N. Y. Clasp. No. 1,340,284; May 18; v. 274; p. 439.
Murray, Robert W., New Lexington, Ohio. Valve. No. 1,341,146; May 25; v. 274; p. 674.
Murray, Thomas E., New York, N. Y. Electric fuse. No. 1,339,965; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing a rib on an electrically-welded joint. No. 1,339,966; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrically welding metal bodies. No. 1,339,967; May 11; v. 274; p. 322.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,968; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,969; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing longitudinal ribs on the exterior of tubes. No. 1,339,970; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,971; May 11; v. 274; p. 323.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,339,972; May 11; v. 274; p. 323.
Muther, Lorenz. (See Glines, Frederick S., assignor.)
Mutual Electric & Machine Company. (See Frank, Harry, J. L., and L. H., assignors.)
Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Tone-modulator for phonographs. No. 1,338,950; May 4; v. 274; p. 55.
Myers, John M., Woodcliff Lake, N. J. Bookbinding. No. 1,341,575; May 25; v. 274; p. 758.
Myers Phonograph Corporation. (See Myers, Frederick, assignor.)
Myers, William S., and A. L. Smith, Ashland, Ky., assignors of one-third to C. R. Wilson, Chicago, Ill. Portable boring and grinding device for automobile-cylinders. No. 1,339,409; May 11; v. 274; p. 216.
N. V. Vitrite Works. (See Ghijsen, Huibert C., assignor.)
Nadel, Abram R., Dorchester, Mass. Loose-leaf sketching-pad. No. 1,338,951; May 4; v. 274; p. 56.
Naftel, Paul F., and H. H. Garner, Pomona, Calif. Tractor-tread oiler. No. 1,339,523; May 11; v. 274; p. 238.
Nagel, Carl E., St. Paul, Minn. Reinforced-concrete piling. No. 1,340,397; May 18; v. 274; p. 461.
Nakabayashi, Kisaburo, administrator. (See Nakabayashi, Yoshinobu.)
Nakabayashi, Yoshinobu, deceased, Seattle, K. Nakabayashi, administrator, Seattle, Wash. Fender for ships. No. 1,339,663; May 11; v. 274; p. 265.
Nakahara, Ichigoro, Tokyo, Japan. Dental articulator. No. 1,341,191; May 25; v. 274; p. 683.
Napier, D., & Son. (See Rowledge, Arthur J., assignor.)
Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft-arm for railway-cars. No. 1,340,285; May 18; v. 274; p. 439.
Nash, William A., Plainview, Tex. Device for extracting automobiles from mud, sand, or ditches. No. 1,340,238; May 18; v. 274; p. 431.
Nathan, Frederic L., W. Rintoul, and F. Baker, deceased, Stevenston, Scotland; H. Baker, administrator, Eton, Windsor, England, assignors to Nobel's Explosives Company, Limited, Glasgow, Scotland. Gelatinized propellent explosive and preparing same. No. 1,338,691; May 4; v. 274; p. 8.
National Cash Register Company, The. (See Carroll, Fred M., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company, The. (See Skerl, F., and Graef, assignors.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Equipment Company. (See Bausman, A. L., and Perkins, assignors.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Shorthand Machine Company. (See Ireland, Ward S., assignor.)
National Spring & Wire Company. (See Wiselogel, James J., assignor.)
Naugle, Joseph R., Roxbury, Mass., assignor to Standard Thermometer Company, Portland, Me. Cutting-tool. No. 1,341,067; May 25; v. 274; p. 660.
Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,338,692; May 4; v. 274; p. 8.
Neal, Franklin G., St. Louis, Mo. Machine for applying marks to articles. No. 1,339,857; May 11; v. 274; p. 302.
Neal, Joseph A., Mobile, Ala. Twin circular resawing machine. No. 1,340,286; May 18; v. 274; p. 439.
Neckerman, Wilson R., Pittsburgh, Pa. Coin-controlled lock; No. 1,341,433; May 25; v. 274; p. 730.
Needham, Moses W., Waco, Tex. Rubber-tire filler with a flexible metal cable in the center. No. 1,339,472; May 11; v. 274; p. 228.
Neighbour, William W., Spartanburg, S. C. Shaft-bearing. No. 1,339,277; May 4; v. 274; p. 115.
Neilson, John. (See Babcock, Clifford D., assignor.)
Nellis, Addan, Monowi, Nebr. Gate-fastener. No. 1,339,781; May 11; v. 274; p. 288.
Nelson, Charley E., Morgan, Tex. Drag. No. 1,339,664; May 11; v. 274; p. 266.
Nelson, Emil A., Detroit, Mich., assignor to Martin Jurist, Toledo, Ohio. Spring suspension for motor-vehicles. (Reissue.) No. 14,856; May 11; v. 274; p. 355.
Nelson, Gilbert, St. Paul, Minn. Artificial limb. No. 1,340,239; May 18; v. 274; p. 431.
Nelson, Harold, and J. Wedwick, Clifford, N. D. Dirigible headlight. No. 1,338,787; May 4; v. 274; p. 26.
Nentwig, Otto. (See Shannon, Harris M., assignor.)
Nettle, William E., P. Selby, J. Blyth, and J. H. Holman, Johannesburg, Transvaal, South Africa. Conveying liquid to rock-drilling tools. No. 1,339,858; May 11; v. 274; p. 302.
New Jersey Zinc Company, The. (See Breyer, F. G., and Runce, assignors.)
Newcomb, Edward C., North Scituate, Mass. Carbureter. No. 1,339,218; May 4; v. 274; p. 105.
Newton, Edmund, Minneapolis, Minn. Apparatus for separating magnetic material. No. 1,340,457; May 18; v. 274; p. 472.
Newton, Edward C. (See Kresky, Theron J., assignor.)
Newton, Thomas E., Zellwood, Fla. Dumping-wagon attachment for automobiles. No. 1,341,381; May 25; v. 274; p. 720.
Niagara Alkali Company. (See Patterson, Thomas A., assignor.)
Nicholls, Harry J., Minneapolis, Minn. Soap-making apparatus. No. 1,339,126; May 4; v. 274; p. 90.
Nichols, Harold W., *et al.* (See Salsman, James E., assignor.)
Nichols, James S., Atlanta, Ga. Superheater. No. 1,340,074; May 11; v. 274; p. 342.
Nicholson, Frank H. (See Morrison, C. H., and Nicholson.)
Nicholson, George F., and G. Whitestone, Seattle, Wash. Portable freight-stacking elevator. No. 1,340,458; May 18; v. 274; p. 472.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hoist control. No. 1,340,240; May 18; v. 274; p. 431.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Liquid rheostat. No. 1,340,241; May 18; v. 274; p. 432.
Nicolétis, Minos, Paris, France. Apparatus for regulating the strength of electric currents for medical purposes. No. 1,338,952; May 4; v. 274; p. 56.
Nield, William H., Stockport, assignor of one-half to W. Melland, Manchester, England. Furnace. No. 1,339,859; May 11; v. 274; p. 302.
Nielsen, Aagot M., Boston, Mass. Laundry-tub. No. 1,340,852; May 18; v. 274; p. 546.
Nikander, August, Detroit, Mich. Wrench. No. 1,340,287; May 18; v. 274; p. 439.
Nikander, August, Detroit, Mich. Fire-escape. No. 1,341,242; May 25; v. 274; p. 693.
Niles, Charles E., Fargo, N. D. Clothes-reel. No. 1,340,494; May 18; v. 274; p. 479.
Niles, Harry F., Chicago, Ill., assignor of one-third to E. A. Schlick, Cook county, Ill. Valve. No. 1,338,838; May 4; v. 274; p. 35.
Niles-Bement-Pond Company. (See Boughen, Malachi F., assignor.)
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Nissen, Eugene F., Alameda, Calif. Safety-container. No. 1,340,553; May 18; v. 274; p. 490.
Nissen, Eugene F., Alameda, Calif. Envelop. No. 1,340,554; May 18; v. 274; p. 491.
Nissen, Eugene F., Alameda, Calif. Safety-container. No. 1,340,555; May 18; v. 274; p. 491.

Nix, Allen B., near Howard, Kans. Spring-tire for vehicle-wheels. No. 1,341,576; May 25; v. 274; p. 758.
Nobel's Explosives Company. (See Nathan F. L., Rintoul, and Baker, assignors.)
Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,863; May 4; v. 274; p. 39.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,864; May 4; v. 274; p. 39.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,338,865; May 4; v. 274; p. 40.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,339,473; May 11; v. 274; p. 229.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-wrench. No. 1,340,622; May 18; v. 274; p. 504.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,340,972; May 25; v. 274; p. 641.
Nonsuch, Sciota A., Philadelphia, Pa. Crank-pin-refinishing tool. No. 1,341,577; May 25; v. 274; p. 758.
Norcross, Collen E., West Chester, Pa. Method of and apparatus for emulsification. No. 1,338,996; May 4; v. 274; p. 64.
Norcross, Walter E., Dorchester, assignor to L. C. Chase & Company, Boston, Mass. Radiator and hood cover for automobiles. No. 1,338,693; May 4; v. 274; p. 8.
Nordberg, Carl V., Butte, Mont. Clutch. No. 1,338,788; May 4; v. 274; p. 26.
Nordell, John P., New York, N. Y. Towing mines. No. 1,341,578; May 25; v. 274; p. 758.
Nordstrom, Charles, Milwaukee, Wis. Tire-vulcanizer. No. 1,340,973; May 25; v. 274; p. 641.
Norman, Frederick D. (See Schwarzmann, W. E., and Norman.)
Norman, George, Birmingham, England. Mount or stand for machine-guns. No. 1,339,410; May 11; v. 274; p. 216.
Normandy, Isaac, St. Catharines, assignor to I. L. Leo, Toronto, Ontario, Canada. Pneumatic tire. No. 1,339,782; May 11; v. 274; p. 288.
Norris, Daniel E., assignor of one-half to F. H. Norris, Robinson, Ill. Pipe-grip. No. 1,341,147; May 25; v. 274; p. 675.
Norris, Frank H. (See Norris, Daniel E., assignor.)
Norris, Robert, Wytheville, Va. Window-weatherproofing. No. 1,341,434; May 25; v. 274; p. 730.
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Fjellanger, Mikal, assignor.)
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Foss, A., and Halvorsen, assignors.)
North, Charles E., Montclair, N. J., assignor of one-half to E. B. Phelps, Washington, D. C. Cleansing and sterilizing preparations. No. 1,339,783; May 11; v. 274; p. 288.
North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,340,288; May 18; v. 274; p. 440.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Norton Company. (See Dunbar, H. W., Turner, and Smith, assignors.)
Norton Company. (See Norton, C. H., Turner, and Wilcox, Jr., assignors.)
Norton, Charles H., A. Turner, and J. S. Wilcox, Jr., assignors, by mesne assignments, to Norton Company, Worcester, Mass. Cross-feed mechanism for grinding-machines. No. 1,339,860; May 11; v. 274; p. 302.
Norton Iron Works. (See Alexander, True, assignor.)
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Manufacture of printing-plates. No. 1,339,127; May 4; v. 274; p. 90.
Novotny, Frank, *et al.* (See Doman, Herman C., assignor.)
Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Pouring-spout. No. 1,340,242; May 18; v. 274; p. 432.
Nussbaum, Louis, Albany, N. Y. Vehicle. No. 1,340,733; May 18; v. 274; p. 524.
Nye, Mark B., Buffalo, N. Y. Automatic check-valve mechanism. No. 1,339,128; May 4; v. 274; p. 90.
O. & J. Machine Company, The. (Johnson, J. E., and Oslund, assignors.)
Oakes, George C., Merced, Calif. Chiropractor's table. No. 1,339,038; May 4; v. 274; p. 72.
Oakes, Travis E. (See Hitner, H. F., and Oakes.)
Oathout, Arthur N., assignor to C. L. Van Doren, Inc., Gloversville, N. Y. Glove. No. 1,339,129; May 4; v. 274; p. 90.
Ober, John V., Ada, Minn. Coupling and operating device for tractor-harvesters. No. 1,339,278; May 4; v. 274; p. 116.
O'Brien, Daniel D., Waukesha, Wis. Tire-protector. No. 1,340,179; May 18; v. 274; p. 420.
O'Brien, Edmund H., Kansas City, Mo. Door-lock. No. 1,340,398; May 18; v. 274; p. 461.
O'Brien, Joseph J., Springfield, Mass. Paper-clip. No. 1,340,180; May 18; v. 274; p. 420.
O'Brien, Sylvester L., Chicago, Ill. Grease-gun. No. 1,341,148; May 25; v. 274; p. 675.
O'Brien, Vincent R., and W. N. Parks, St. Paul, Minn. Nipple-coupling for radiators and similar structures. No. 1,340,289; May 18; v. 274; p. 440.
O'Connell, Timothy, Brooklyn, N. Y. Producing carbon-hydrogen gas. No. 1,340,495; May 18; v. 274; p. 479.
O'Connor, Arthur F., assignor to The Union Railway Equipment Co., Chicago, Ill. Tank hand-hole and cover. No. 1,339,905; May 11; v. 274; p. 311.
O'Connor, Arthur F., assignor to The Union Railway Equipment Co., Chicago, Ill. Ventilator. No. 1,339,973; May 11; v. 274; p. 324.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,338,747; May 4; v. 274; p. 18.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,341,149; May 25; v. 274; p. 675.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,341,150; May 25; v. 274; p. 675.
Odell, Robert R., Minneapolis, Minn. Artificial bait. No. 1,338,953; May 4; v. 274; p. 56.
Odier, Antoine I., Puteaux, France. Apparatus for starting internal-combustion engines and also for other purposes. No. 1,339,411; May 11; v. 274; p. 216.
O'Dowd, Henry W., Jersey City, N. J., assignor to W. M. Crane Company. Gas-stove. No. 1,340,666; May 18; v. 274; p. 512.
Oebbecke, Ferdinand J., Philadelphia, Pa. Stage illusion effect. No. 1,339,279; May 4; v. 274; p. 116.
Offner, Charles, Lyon, France. Locking-washer. No. 1,341,279; May 25; v. 274; p. 700.
O'Hara, Daniel L., Greenland, Mich. Electric switch. No. 1,340,788; May 18; v. 274; p. 534.
Ohio Brass Company, The. (See Bovard, William P., assignor.)
Ohio Brass Company, The. (See Hunzicker, Walter W., assignor.)
Ohio Brass Company, The. (See Mead, George A., assignor.)
Ohio Suspender Company, The. (See Bear, John F., assignor.)
Ohlson, Olof, West Newton, assignor to Waltham Watch Company, Waltham, Mass. Pressure-gage. No. 1,340,399; May 18; v. 274; p. 461.
Ohmer Fare Register Company. (See Kelly, Joseph N., assignor.)
Olum, George T., Minneapolis, Minn. Machine for making phonograph-needles. No. 1,340,400; May 18; v. 274; p. 461.
Oka, Charly, Santa Clara County, Calif. Fruit cutting and pitting machine. No. 1,339,364; May 4; v. 274; p. 132.
Okun, Morris B., assignor to G. W. Zimmer, Chicago, Ill. Corner-post fastener. No. 1,341,068; May 25; v. 274; p. 660.
Oldfield, Robert A., Birmingham, England. Lamp. No. 1,338,954; May 4; v. 274; p. 56.
Olfensis, Gershon L., Philadelphia., Pa., and J. S. Miller, Jr., Rahway, N. J., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa. Fibered asphalt. No. 1,340,181; May 18; v. 274; p. 420.
Oliver, Charles E., assignor to Universal Safety Tread Company, Boston, Mass. Stair-tread. No. 1,340,243; May 18; v. 274; p. 432.
Ollivier, Jocelyn E., Paris, France. Motor-vehicle for soft ground. No. 1,340,789; May 18; v. 274; p. 535.
Olney, Joseph W., Latah, Wash. Hatchet. No. 1,340,401; May 18; v. 274; p. 462.
Olsen, Karl O., St. Helens, Oreg. Bevel-square for shipbuilding. No. 1,341,435; May 25; v. 274; p. 730.
Olsen, Lawrence. (See Heath, Frank C., assignor.)
Olsen, Olav G., Binghamton, N. Y. Valves. No. 1,341,151; May 25; v. 274; p. 675.
Olson, Benjamin W., Stillwater, Minn. Automobile-brake. No. 1,339,524; May 11; v. 274; p. 238.
Olson, Gustaf, assignor of one-half to Willard M. McEwen, Chicago, Ill. Fluid-pump. No. 1,338,839; May 4; v. 274; p. 35.
Olson, John, Hoquiam, Wash. Wire-cable-splicing machine. No. 1,341,579; May 25; v. 274; p. 758.
O'Neil, Colin C., Sarnia, Ontario, Canada. Boiler blow-off valve. No. 1,340,790; May 18; v. 274; p. 535.
Oppenheim, David, New York, N. Y. Barber's chair for children. No. 1,341,192; May 25; v. 274; p. 684.
Ordnance Engineering Corporation. (See Bergman, Axel G., assignor.)
Ordnance Engineering Corporation. (See Jones, George A., assignor.)
O'Reilly, Thomas A., St. Louis, Mo. Bottle-holder. No. 1,340,974; May 25; v. 274; p. 641.
Oriopp, Platt M., Indianapolis, Ind. Auxiliary air-intake for internal-combustion engines. No. 1,340,734; May 18; v. 274; p. 534.
Ormes, Norman A., Pittsburgh, Pa. Barrel-cleat. No. 1,340,075; May 11; v. 274; p. 342.
Orr, Elmore W., assignor of one-half to W. J. Anthony, Minneapolis, Minn. Pipe and flange wrench. No. 1,341,069; May 25; v. 274; p. 660.
Orr, Robert P., Albany, N. Y. Yoke or shoulder-weight carrier. No. 1,340,076; May 11; v. 274; p. 342.
Orr, Robert P., Albany, N. Y. Carrier-receptacle. No. 1,340,077; May 11; v. 274; p. 343.

Osborne, Ernest J., assignor of one-half to A. T. Bradlee, Brookline, Mass. Demountable rim. No. 1,340,244; May 18; v. 274; p. 432.
Osborne, Randolph J., Chicago, Ill. Rug-drying device. No. 1,339,784; May 11; v. 274; p. 288.
Oslund, Charles H. (See Johnson, J. E., and Oslund.)
Ostenberg, Pontus, Santa Clara county, assignor to M. Adrian, San Jose, Calif. Internal-combustion engine. No. 1,341,152; May 25; v. 274; p. 676.
Ostrander, Louise M. (See Kinney, Charles, assignor.)
Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
Otis-Flagg Corporation. (See Cooper, Isidor, assignor.)
Otis, Spencer, Chicago, Ill. Railway-car-roof construction. No. 1,340,667; May 18; v. 274; p. 512.
Otterson, Oscar, Butler, Pa. Making reamers. No. 1,341,436; May 25; v. 274; p. 731.
Otto, Albert and W., assignors of one-half to F. E. Scott and G. Butler, Kansas City, Mo. Air and gas valve. No. 1,339,665; May 11; v. 274; p. 266.
Otto, William. (See Otto, Albert and W.)
Overaas, Nils. Tonsbergfjordens, Befæstninger, Norway. Apparatus for determining the elevation and distance of an aerial mark from a battery. No. 1,339,130; May 4; v. 274; p. 90.
Overbury, Frederick C., Montclair, N. J., assignor to The Flintkote Company, Boston, Mass. Making shingle-strips. No. 1,340,402; May 18; v. 274; p. 462.
Overman, Max C., New York, N. Y. Tire. No. 1,340,556; May 18; v. 274; p. 491.
Owen, John E. (See Van Camp, John, assignor.)
Owen, Richard H., Lexington, N. C. Pliers. No. 1,341,193; May 25; v. 274; p. 684.
Owens, William L., Scottdale, Pa. Coördinator. No. 1,340,623; May 18; v. 274; p. 504.
Pace, Carl D., Oxford, assignor of one-half to J. C. Wheeler, Anniston, Ala. Stump-puller. No. 1,339,666; May 11; v. 274; p. 266.
Pack, Samuel B., Washington, D. C., assignor to Packmore Manufacturing Company. Portable cleaning-machines. No. 1,339,280; May 4; v. 274; p. 116.
Pacifico, James, Denver, Colo. Gun. No. 1,340,791; May 18; v. 274; p. 535.
Packard Motor Car Company. (See Belden, Edward H., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packmore Manufacturing Company. (See Pack, Samuel B., assignor.)
Paddack, Truman G., Wyoming, assignor to The Stearns and Foster Company, Lockland, Ohio. Upholstery-fold. No. 1,339,281; May 4; v. 274; p. 116.
Paddon, Wadham, L., Gosport, England. Sleigh-carrier. No. 1,339,861; May 11; v. 274; p. 303.
Page, Adolphus L., Rochester, N. Y., assignor of two-fifths to S. Rubin, Baltimore, Md. Tinning aluminum. No. 1,339,710; May 11; v. 274; p. 274.
Page, Rescue B., Los Angeles, Calif. Folding bed. No. 1,340,735; May 18; v. 274; p. 525.
Page, Robert R., Brooklyn, N. Y. Etching apparatus. No. 1,340,975; May 25; v. 274; p. 642.
Palmer, George B., New York, N. Y. Manufacture of colors. No. 1,339,219; May 4; v. 274; p. 106.
Panetti, David C. (See Panetti, Louis J. and D. C.)
Panetti, Louis J. and D. C., Jump River, Wis. Weeding-tool. No. 1,340,624; May 18; v. 274; p. 504.
Pann, August, Brooklyn, N. Y. Hand-operated power mechanism for small boats. No. 1,340,976; May 25; v. 274; p. 642.
Pape, Herman G., New York, N. Y. Telephone hand set or handpiece. No. 1,341,280; May 25; v. 274; p. 700.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electrically-operated fluid-heater. No. 1,338,997; May 4; v. 274; p. 64.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Current-regulating plug and socket. No. 1,338,998; May 4; v. 274; p. 64.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Automatic electric switch or circuit controlling mechanism for electric fluid-heaters. No. 1,340,668; May 18; v. 274; p. 513.
Paramount Knitting Company. (See La Montagne, Patrick P., assignor.)
Paris, Pablo, New York, N. Y. Motor-drive for typesetting-machines. No. 1,339,667; May 11; v. 274; p. 266.
Park, Jay M., assignor of one-half to R. B. Charles, Chaffee, N. Y. Tongue-depressor. No. 1,339,711; May 11; v. 274; p. 275.
Parker Collapsible Rim Corporation. (See Parker, Harry J., assignor.)
Parker Collapsible Rim Corporation. (See Woodbury, Leonard P., assignor.)
Parker, Edward C. S., U. S. Navy. Photographic apparatus. No. 1,341,338; May 25; v. 274; p. 711.
Parker, Edward G., and R. Stroppel, West Branch, Iowa. Combination knife and fork. No. 1,341,153; May 25; v. 274; p. 676.
Parker, Harry J., San Francisco, Calif., assignor to Parker Collapsible Rim Corporation. Demountable rim. No. 1,340,977; May 25; v. 274; p. 642.
Parker, John F., Kansas City, Mo. Non-skid chain. No. 1,340,182; May 18; v. 274; p. 421.
Parker, John F., Kansas City, Mo. Non-skid chain. No. 1,340,183; May 18; v. 274; p. 421.
Parks, Edward F., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cop or bobbin holder. No. 1,340,978; May 25; v. 274; p. 642.
Parks, G. M. Company, The. (See Thompson, A. W., and Comfort, assignors.)
Parks, William N. (See O'Brien, V. R., and Parks.)
Parnes, Morris, New York, N. Y. Fuel-supply system. No. 1,341,515; May 25; v. 274; p. 746.
Parr, Elmer O., Greenview, Ill. Heating-stove. No. 1,339,039; May 4; v. 274; p. 72.
Parrish, Vernon E., Cupertino, Calif. Machine for ridging land. No. 1,339,040; May 4; v. 274; p. 73.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England, said Cook and said Douglas assignors to said Parsons. Carbon-gland. No. 1,338,955; May 4; v. 274; p. 56.
Parsons, Harold K., and H. H. Styll, Southbridge, Mass. Electric soldering. No. 1,340,736; May 18; v. 274; p. 505.
Partridge, Arthur S., *et al.* (See Ehrlich, Leo, assignor.)
Paschen, Henry. (See Deneau, William M., assignor.)
Patrono, Frank and N., Mount Vernon, N. Y. Drying apparatus. No. 1,339,131; May 4; v. 274; p. 91.
Patrono, Nicola. (See Patrono, Frank and N.)
Pattee, John R., New York, N. Y. Electrical connector. No. 1,341,339; May 25; v. 274; p. 712.
Patten, John, Baltimore, assignor of one-half to S. M. Shoemaker, Eccleston, Md. Sulfuric-acid concentration. No. 1,340,290; May 18; v. 274; p. 440.
Patterson, Benjamin G., Fayetteville, Ark. Nut-lock. No. 1,340,496; May 18; v. 274; p. 480.
Patterson, Thomas A., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Chlorin-cell. No. 1,341,516; May 25; v. 274; p. 746.
Paulson, Sivil, St. Paul, Minn. Cartridge-tube filler. No. 1,340,737; May 18; v. 274; p. 525.
Pauly, Albert A., Cleveland, Ohio. Molding apparatus. No. 1,339,712; May 11; v. 274; p. 275.
Pausser, Arnaud, Philadelphia, Pa. Process of and apparatus for curling hair. No. 1,340,738; May 18; v. 274; p. 505.
Pavelka, Joseph, St. Louis, Mo. Shoe-lace tip. No. 1,340,669; May 18; v. 274; p. 513.
Paxflat Barrel and Crate Corporation. (See Le Fevre, G. A., and Hutchinson, assignors.)
Payne, Oscar V. (See Eickhoff, T. H., and Payne.)
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,338,866; May 4; v. 274; p. 40.
Peal, Marshall B., Brooklyn, N. Y. Combined spindle and casing for music-rolls. (Reissue.) No. 14,860; May 18; v. 274; p. 550.
Pearman, Robert H., Boston, Mass., assignor to T. E. Steere, Providence, R. I. Camera. No. 1,341,017; May 25; v. 274; p. 650.
Pearson, Terrell B., Waco, Tex. Cylindrical structure. No. 1,339,862; May 11; v. 274; p. 303.
Pease, William E., and N. H. Suloff, Cleveland, Ohio, assignors of one-third to W. H. Evers. Retaining-wall structure. No. 1,340,670; May 18; v. 274; p. 513.
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Rotating-screen filter. No. 1,338,999; May 4; v. 274; p. 64.
Peck, Frederick G., Bradford, assignor, by mesne assignments, to J. H. Malone, Philadelphia, Pa. Portable grinding device. No. 1,340,120; May 11; v. 274; p. 352.
Peck, Harley T., Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Shotgun-shell. No. 1,340,245; May 18; v. 274; p. 432.
Peckham, Samuel C., Mexia, Texas. Peanut-roaster. No. 1,339,365; May 4; v. 274; p. 132.
Pedrick, Albert C. (See Selah, Howard A., assignor.)
Peebles, Thomas A., Pittsburgh, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Furnace. No. 1,338,694; May 4; v. 274; p. 8.
Peebles, Thomas A., assignor to J. M. Hopwood, Pittsburgh, Pa. Regulating combustion. No. 1,338,956; May 4; v. 274; p. 56.
Peebles, Thomas A., assignor to J. M. Hopwood, Pittsburgh, Pa. Method of and apparatus for regulating combustion. No. 1,339,000; May 4; v. 274; p. 65.
Pelnar, John E., Deerfield, Kans. Cutter for broom-corn, maize, and the like. No. 1,339,282; May 4; v. 274; p. 116.
Pelton, Charles W., and J. P. Barbour, Livingston, Mont. Tire filler and tester. No. 1,339,041; May 4; v. 274; p. 73.
Pelton, Edgar J., Hion, N. Y. Heater. No. 1,341,580; May 25; v. 274; p. 758.
Penfield, Raymond C. (See Martin, James P., assignor.)
Pennypacker, Edward J., Los Angeles, Calif., assignor to Motion Picture Apparatus Co., Inc., New York, N. Y. Shutter mechanism for motion-picture cameras. No. 1,340,557; May 18; v. 274; p. 491.
Peoples, John S., U. S. Army. Container. No. 1,340,078; May 11; v. 274; p. 343.
Pepin, Joseph N., Chicago, Ill. Sound-box for phonographs. No. 1,341,154; May 25; v. 274; p. 676.
Perfek'tone Corporation, The. (See Adams, Frederick, assignor.)

Percy Manufacturing Company. (See Trubenbach, C. D. and Sanneman, assignors.)
Perkins Electric Door Control Co. (See Perkins, Seth E., assignor.)
Perkins, George S. (See Rausman, A. L., and Perkins.)
Perkins, James A., Brooklyn, N. Y. Inner tube for tires. No. 1,339,283; May 4; v. 274; p. 116.
Perkins, Seth E., assignor to Perkins Electric Door Control Co., Waterloo, Iowa. Switch. No. 1,340,403; May 18; v. 274; p. 462.
Perl, Elmer G., and L. C. Boss, assignors to Minnesota Cement Products Company, Minneapolis, Minn. Concrete lamp-standard. No. 1,339,220; May 4; v. 274; p. 106.
Perrine, George L., Portland, Oreg. Hose-reel. No. 1,339,785; May 11; v. 274; p. 288.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,338,957; May 4; v. 274; p. 57.
Perry, William P. Leytonstone, London, England. Apparatus for distilling carbonaceous material. No. 1,341,517; May 25; v. 274; p. 746.
Pershall, Edward E., St. Louis, Mo. Distillation. No. 1,341,437; May 25; v. 274; p. 731.
Persohn, Frank A., Baltimore, Md. Lens-mount. No. 1,339,974; May 11; v. 274; p. 324.
Peskolich, Slave, Butte, Mont. Safety device for mine-cages. (Reissue.) No. 14,864; May 25; v. 274; p. 768.
Petan, John, Philadelphia, Pa. Ash-sage color-preserving extract. No. 1,340,246; May 18; v. 274; p. 432.
Peters Cartridge Company, The. (See Peck, Harley T., assignor.)
Peters, Lyle, Denver, Colo. Valve-lock. No. 1,339,412; May 11; v. 274; p. 217.
Peters, Thomas J., Peters, Fla. Tomato and fruit sorter and distributer. No. 1,340,079; May 11; v. 274; p. 343.
Petersen, Arnold J., Cedar Rapids, Iowa. Light-bowl hanger. No. 1,338,958; May 4; v. 274; p. 57.
Petersen, Oluf G., Somerset, Ky. Excavating-machine. No. 1,340,247; May 18; v. 274; p. 432.
Petersen Owen Company. (See Wundrack, Otto, assignor.)
Peterson, Andrew M., New Athens, Ohio. Chimney-cap. No. 1,340,459; May 18; v. 274; p. 473.
Peterson, Christen J., Chicago, Ill. Motion-picture machine. No. 1,338,695; May 4; v. 274; p. 9.
Peterson, Frank W., Peoria, Ill. Electric incandescent lamp. No. 1,341,581; May 25; v. 274; p. 759.
Petit, Arthur G., Southbridge, Mass. Knockdown box. No. 1,340,248; May 18; v. 274; p. 433.
Petrov, Arthur, Wapella, Saskatchewan, Canada. Pump. No. 1,341,194; May 25; v. 274; p. 684.
Petrovic, Tony N., Pictou, Colo. Spring-wheel. No. 1,339,132; May 4; v. 274; p. 91.
Petry, Nicholas A., Philadelphia, Pa. Muffler cut-out. No. 1,339,284; May 4; v. 274; p. 117.
Pettibone, Charles L., Detroit, Mich. Thread-gage. No. 1,339,573; May 11; v. 274; p. 248.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-rigging arrangement. No. 1,339,413; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,339,414; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-rigging. No. 1,339,415; May 11; v. 274; p. 217.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake supporting and leveling device. No. 1,339,416; May 11; v. 274; p. 217.
Pfau, William F., Cincinnati, Ohio. Wheel. No. 1,339,574; May 11; v. 274; p. 248.
Pfersch, Clarence L., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Card-matches. No. 1,339,975; May 11; v. 274; p. 324.
Pfister, George J., St. Paul, Minn. Cutter. No. 1,340,137; May 11; v. 274; p. 355.
Pfitzer, Adolf. (See Kiefer, Otto G., assignor.)
Pflanze, Charles F., St. Louis, Mo. Machine for attaching strings to envelops. No. 1,340,909; May 25; v. 274; p. 628.
Pflueger, Charles T. (See Pflueger, Ernest A. and C. T.)
Pflueger, Ernest A. and C. T., assignors to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-tackle. No. 1,339,832; May 11; v. 274; p. 297.
Phelps, Earle B. (See North, Charles E., assignor.)
Phelps, Leonard M., Philadelphia, Pa. Means for automatically closing windows. No. 1,341,155; May 25; v. 274; p. 676.
Philadelphia Textile Machinery Company, The. (See Hurxthal, Alpheus O., assignor.)
Phillips, James E., Chicago, Ill. Calendar accounting means. No. 1,340,018; May 25; v. 274; p. 650.
Philo, Frank G., Elmhurst, N. Y. Multiple draft and pressure gage. No. 1,341,582; May 25; v. 274; p. 759.
Phoenix Hardening Equipment Company, The. (See Radabaugh, Noah B., assignor.)
Phonograph Company, The. (See Reynolds, George L., assignor.)
Piccioni, Gino, Tivoli, Italy. Multiple reproduction of patterns. No. 1,340,460; May 18; v. 274; p. 473.
Pienta, Peter, Linfield, Pa. Collapsible bookstand. No. 1,341,195; May 25; v. 274; p. 684.
Pieper, Alphonse F. (See Pieper, Oscar H., and A. F.)
Pieper, Henri, Liege, Belgium. Automatic controlling apparatus for mixed driving systems. No. 1,340,249; May 18; v. 274; p. 433.
Pieper, Oscar H., and A. F., Rochester, N. Y. Dental engine. No. 1,340,908; May 25; v. 274; p. 628.
Pierce, James S., Dunkirk, N. Y. Demountable rim. No. 1,340,671; May 18; v. 274; p. 513.
Pierce, Robert C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bonded-wire-cable structure and making same. No. 1,339,417; May 11; v. 274; p. 217.
Piersen, Edwin H., Topeka, Kans. Electric switch. No. 1,339,976; May 11; v. 274; p. 324.
Pierson, Leonard F., Fredericksburg, Va. Game device. No. 1,339,285; May 4; v. 274; p. 117.
Pigache, Charles E. and P., Paris, France. Locking device for derailed trolley-arms. No. 1,339,221; May 4; v. 274; p. 106.
Pigache, Pierre. (See Pigache, Charles E. and P.)
Pigeon, Albert M., assignor to Wildman M'f'g Co., Norristown, Pa. Anti-thread-ballooning device for knitting-machines. No. 1,340,681; May 18; v. 274; p. 515.
Pile, John R., assignor to International Farm Implement Company, Owensboro, Ky. Grading-machine. No. 1,340,497; May 18; v. 274; p. 480.
Pittock, John W., Philadelphia, Pa. Centrifugal machine for separating oil from chips. No. 1,340,682; May 18; v. 274; p. 515.
Pittsburgh Plate Glass Company. (See Hitmer, H. F., and Oakes, assignor.)
Pittsburgh Plate Glass Company. (See Rotheram, Thomas, assignor.)
Pittsburgh Plate Glass Company. (See Shrigluff, Harry G., assignor.)
Plaisted, Harold M., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Rotary hammer. (Reissue.) No. 14,865; May 25; v. 274; p. 768.
Planche, Benjamin R., Villefranche-sur-Saône, France. Rotary machine. No. 1,340,625; May 18; v. 274; p. 504.
Platt, Wilber O., and J. Reid, assignors to Joseph Reid Gas Engine Company, Oil City, Pa. Internal-combustion engine. No. 1,341,478; May 25; v. 274; p. 739.
Platten, William J., Green Bay, Wis. Concrete rail and track. No. 1,339,046; May 4; v. 274; p. 74.
Plice, Thomas V., assignor to The Topping Manufacturing Company, Ashland, Ohio. Door-latch and controlling device for combined hinge and slide doors. No. 1,341,583; May 25; v. 274; p. 759.
Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Door-hanger. No. 1,341,584; May 25; v. 274; p. 759.
Plumb, David S. (See Underhill, Benjamin D., assignor.)
Plummer, Emma A., Brooklyn, N. Y. Head-covering. No. 1,339,286; May 4; v. 274; p. 117.
Plummer, Henry L., assignor to Independent Trunk and Bag Company, Petersburg, Va. Machine for cutting and preparing dress-suit-case body-blanks. No. 1,340,558; May 18; v. 274; p. 491.
Pneumatic Scale Corporation, Limited. (See Robinson, George A., assignor.)
Pockert, John G., Dunn Center, N. D. Trace-buckle. No. 1,340,792; May 18; v. 274; p. 535.
Poehland, Bernhard, Brooklyn, N. Y. Tuning-peg for stringed instruments. No. 1,339,418; May 11; v. 274; p. 218.
Pogany, Alfred, assignor of one-half to A. Gabriel, Philadelphia, Pa. Stopping device. No. 1,339,474; May 11; v. 274; p. 229.
Pohlig, Edgar W., New York, N. Y. Fender for vehicles. No. 1,340,835; May 18; v. 274; p. 543.
Poindexter, George B., Bremerton, Wash. Combination-lock. No. 1,339,668; May 11; v. 274; p. 266.
Poirier, Marcel H., Woonsocket, R. I. Coupling. No. 1,340,739; May 18; v. 274; p. 525.
Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,339,575; May 11; v. 274; p. 248.
Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,340,979; May 25; v. 274; p. 642.
Pollock, Robert B., Los Angeles, Calif. Direction-indicator. No. 1,340,343; May 18; v. 274; p. 451.
Pool, John G., Dayton, Ohio. Means for suspending fastening elements from concrete. No. 1,341,585; May 25; v. 274; p. 759.
Poole Oil-Cracking & Refining Company. (See Poole, Willard B., assignor.)
Poole, Willard B., Okmulgee, Okla., assignor to Poole Oil-Cracking & Refining Company, Yuma, Ariz. Oil-cracking apparatus. No. 1,340,793; May 18; v. 274; p. 535.
Pope, William W., Portland, Oreg. Cable-clamp. No. 1,341,483; May 25; v. 274; p. 731.
Port Huron Engine & Thresher Company. (See Chrestenson, Louis F., assignor.)
Porteous, James, Fresno, Calif. Rotary harrow. No. 1,339,605; May 11; v. 274; p. 254.
Porter, Joseph W., Oakland, and R. L. Arndt, assignors to Union Tractor Company, San Francisco, Calif. Traction-belt. No. 1,339,786; May 11; v. 274; p. 288.
Porter, Robert S., assignor of one-half to D. C. Burnham, San Diego, Calif. Fuse-plug. No. 1,340,080; May 11; v. 274; p. 343.

Post, Judson. (See Witter, Ezra E., assignor.)
Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Metal fitting for connecting together certain structural members of an aeroplane. No. 1,340,626; May 18; v. 274; p. 504.
Poston, Leon L., Council Bluffs, Iowa. Artificial tooth. No. 1,338,959; May 4; v. 274; p. 57.
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Potter, Frederick C., Omaha, Nebr. Circuit-closer for vehicle-alarms. No. 1,340,344; May 18; v. 274; p. 451.
Potter, Walter P. (See Handshy, C. F., and Potter.)
Pouvailsmith Corporation. (See Smith, Grant E., assignor.)
Povotzky, Philip, Chicago, Ill. Carbureter, No. 1,338,960; May 4; v. 274; p. 57.
Powdered Coal Engineering Equipment Company. (See Pruden, Harry B., assignor.)
Powell, Elwood L., Philadelphia, Pa., and H. J. Albersworth, St. Louis, Mo. Protractor-level. No. 1,339,787; May 11; v. 274; p. 289.
Powell, Letitia, Caruthersville, Mo. Ladder. No. 1,340,627; May 18; v. 274; p. 505.
Powell, Robert, St. Louis, Mo. Apparatus for making an underground passageway and for making and laying a pipe in same. No. 1,340,836; May 18; v. 274; p. 543.
Power, Jeffrey J., assignor to Power, Stevens Fan Devices Company, Madison, Wis. Laundry-drier. No. 1,338,696; May 4; v. 274; p. 9.
Power, Stevens Fan Devices Company. (See Power, Jeffrey J., assignor.)
Powers, Charles C., Kernville, Calif. Electric locomotive. No. 1,341,243; May 25; v. 274; p. 693.
Powers, John C., Rockwell City, Iowa. Corn-planter. No. 1,339,576; May 11; v. 274; p. 248.
Powers, John E., Pike, N. Y. Guard for keyholes. No. 1,341,439; May 25; v. 274; p. 731.
Prail, James H., Innes, Saskatchewan, Canada, assignor of one-half to G. Innes, Philadelphia, Pa. Shocker. No. 1,341,586; May 25; v. 274; p. 760.
Pratt & Cady Company. (See Cardwell, Addison A., assignor.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Power-shovel. No. 1,340,498; May 18; v. 274; p. 480.
Pratt, Walter J. (See Smith, Joseph H., assignor.)
Pratt, Walter M., Detroit, Mich. Reinforced-concrete floor construction. No. 1,340,291; May 18; v. 274; p. 440.
Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
Preble, George L., Lynn, Mass. Insole. No. 1,340,404; May 18; v. 274; p. 462.
Preddey, Walter G., San Francisco, Calif. Picture-projection lamp. No. 1,340,499; May 18; v. 274; p. 480.
Preining, Adolf J., Detroit, Mich. Liquid-fuel torch. No. 1,338,840; May 4; v. 274; p. 35.
Premier Motor Corporation of America. (See Taylor, John S., assignor.)
Preo, John L., and I. Henne, New York, N. Y. Wooden French shoe-heel. No. 1,340,910; May 25; v. 274; p. 628.
Preo, John L., and I. Henne, New York, N. Y. Wooden French shoe-heel. No. 1,340,911; May 25; v. 274; p. 629.
Prescott, Charles F., Brooklyn, N. Y. Steam-engine valve-gear. No. 1,340,405; May 18; v. 274; p. 462.
Pressed Bearing Company. (See Klocke, William, assignor.)
Prevost, William J., Springfield, Mass. Match-box. No. 1,340,980; May 25; v. 274; p. 643.
Price, Monte G., *et al.* (See Hachmann, Frederick, assignor.)
Price, Virgil M., Alameda, Calif. Concrete-mixer loader. No. 1,340,345; May 18; v. 274; p. 451.
Priest, Edward A., Trenton, N. J. Railway-tie. No. 1,341,587; May 25; v. 274; p. 760.
Prince, Clarence K., Westfield, Mass. Combined mold-pouring and weighting unit. No. 1,339,133; May 4; v. 274; p. 91.
Procunier, Frank G., De Soto, assignor of one-half to R. Q. Kimmel, Elkville, Ill. Compound-engine guide. No. 1,340,740; May 18; v. 274; p. 526.
Prodlitt, George H., Wichita, Kans. Combination lid-fastener and card-holder. No. 1,341,588; May 25; v. 274; p. 760.
Prosser, Joseph W., New York, N. Y. Motor-vehicle drive. No. 1,339,475; May 11; v. 274; p. 229.
Proulx, Charles A., Woonsocket, R. I. Spindle. No. 1,341,479; May 25; v. 274; p. 740.
Prudden, Theodore M., Newton, Mass. Ball-bearing spindle. No. 1,341,019; May 25; v. 274; p. 650.
Pruden, Allan K., St. Paul, Minn. Winter hog-waterer. No. 1,341,070; May 25; v. 274; p. 660.
Pruden, Harry B., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Container for comminuted material. No. 1,339,977; May 11; v. 274; p. 324.
Pruett, Ross, Jacksonville, Ala. Garden-tool. No. 1,341,196; May 25; v. 274; p. 684.
Pruismann, Edward G., Webster City, Iowa. Transportation-truck. No. 1,340,672; May 18; v. 274; p. 513.
Pruyn, Emily C. (See Pruyn, John E., assignor.)
Pruyn, John E., assignor of one-half to E. C. Pruyn, Philadelphia, Pa. Ball-bearing. No. 1,340,250; May 18; v. 274; p. 433.
Pugh, Morton E., Fulton, Mo. Dipper for excavators. No. 1,339,606; May 11; v. 274; p. 254.
Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,339,996; May 11; v. 274; p. 311.
Pullen, Ovid, Harmony, N. C. Cuff-button. No. 1,339,713; May 11; v. 274; p. 275.
Pulsifer, Harrie B., Butte, Mont., assignor to Schaar & Company, Chicago, Ill. Analytical apparatus. No. 1,340,346; May 18; v. 274; p. 451.
Purcell, William F., Morristown, N. J. Safety device. No. 1,338,867; May 4; v. 274; p. 40.
Putnam, William H. (See Stone, Charles M., assignor.)
Putt, Harlie O., Elkhart, Ind. Rotary circuit-interrupter. No. 1,341,020; May 25; v. 274; p. 650.
Pyburn, George, Airdrie, Scotland. Manufacture of wire rope. No. 1,341,003; May 25; v. 274; p. 647.
Pye, Robert E., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain-tire grip. No. 1,339,978; May 11; v. 274; p. 324.
R & G Company. (See Anderson, Edward L., assignor.)
Quarrier, Hullihen D., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Closure for jars and the like. No. 1,341,382; May 25; v. 274; p. 720.
Quin, Frank, Philadelphia, Pa. Sanctuary-lamp. No. 1,339,788; May 11; v. 274; p. 289.
Quinn, Gilbert F., Revere, Mass. Rubber heel. No. 1,341,383; May 25; v. 274; p. 720.
Rabbidge, Parnell, Neutral Bay, New South Wales, Australia. Magneto-electric transformer. No. 1,341,340; May 25; v. 274; p. 712.
Rabbitt, James H., Mamaroneck, N. Y. Direction-indicator. No. 1,340,081; May 11; v. 274; p. 343.
Radabaugh, Noah B., assignor to The Phoenix Hardening Equipment Company, Cleveland, Ohio. Making carbonizing material. No. 1,338,841; May 4; v. 274; p. 35.
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radzinsky, Harry, New York, N. Y. Hair-curler. No. 1,338,748; May 4; v. 274; p. 19.
Ragsdale, Charles R., St. Louis, Mo. Self-raising lid for ice-cream cabinets. No. 1,341,518; May 25; v. 274; p. 746.
Rahr, Chester E., Brookline, assignor to The Flintkote Company, Boston, Mass. Roofing element. No. 1,340,347; May 18; v. 274; p. 451.
Rahr, Chester E., Brookline, assignor to The Flintkote Company, Boston, Mass. Roof-shingle. No. 1,340,348; May 18; v. 274; p. 451.
Railing, Max J. (See Hill, Reginald J. H., assignor.)
Rand, James H., North Tonawanda, N. Y. Card-index. No. 1,338,789; May 4; v. 274; p. 26.
Rand, James H., North Tonawanda, N. Y. Index. No. 1,340,251; May 18; v. 274; p. 433.
Randall, James R., Bonnie, Ill. Combination hoe, extension-marker, and weeder. No. 1,339,222; May 4; v. 274; p. 106.
Randall, Lillian L., and E. A. Fries, Boston, Mass. Joint-assembling machine. No. 1,338,697; May 4; v. 274; p. 9.
Randolph, Chester L., assignor of one-third to A. Ehlers, Coscob, Conn., and one-third to R. B. F. Randolph, Roselle, N. J. Motor-car-locking device. No. 1,341,281; May 25; v. 274; p. 700.
Randolph, Rowland B. F., *et al.* (See Randolph, Chester L., assignor.)
Ranney, Leo. J. W. Dissette, and F. E. Tyrrell, Washington, D. C.; said Ranney and Tyrrell assignors to said Dissette. Ignition device. No. 1,341,362; May 25; v. 274; p. 716.
Rapp, Andrew, New York, N. Y. Foldable furniture. No. 1,339,669; May 11; v. 274; p. 267.
Rasmussen, Niels C., Troy, N. Y. Blind-slat attachment. No. 1,340,252; May 18; v. 274; p. 433.
Rathbone, Sard & Co. (See Toomey, John J., assignor.) (Reissue.)
Ratzburg, Victor P., Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 1,338,842; May 4; v. 274; p. 35.
Ratzburg, Victor P., Nashua, N. H., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle-tires. No. 1,338,843; May 4; v. 274; p. 36.
Ray, Arthur F. (See Hayes, Albert, assignor.)
Raybestos Company, The. (See Kelley, Edward F., assignor.)
Raymond Concrete Pile Company. (See Hamlin, Horace P., assignor.)
Re, Enrico, Camden, N. J. String musical instrument. No. 1,340,628; May 18; v. 274; p. 505.
Rea, Philip M., West Chicago, Ill. Wire-line clamp. No. 1,339,419; May 11; v. 274; p. 218.
Rea, Philip M., West Chicago, Ill. Liner for wire-line clamps. No. 1,339,420; May 11; v. 274; p. 218.
Read, George B., Bloomington, Ill. Elevator. No. 1,340,253; May 18; v. 274; p. 433.
Read, Harry A. S., Andover, Mass. Driving-band. No. 1,339,287; May 4; v. 274; p. 117.

Reader, James H., Kanapolis, N. C. Combined roll-holders. cutters, and twine-holders. No. 1,340,132; May 11; v. 274; p. 354.
Rechter, George, San Francisco, Calif. Comb-cleaner. No. 1,339,863; May 11; v. 274; p. 303.
Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, Chicago, assignors to Redmanol Chemical Products Company, Chicago, Ill. Phenolic condensation product and manufacturing. No. 1,339,134; May 4; v. 274; p. 91.
Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)
Reed Foundry & Machine Co. (See Mason, Jason B., assignor.)
Reeve, George A., Middletown, Ohio. Belt-shifter. No. 1,341,440; May 25; v. 274; p. 732.
Reeves, Frank N. (See Dixon, A. F., and Reeves.)
Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging for railway-cars. No. 1,339,714; May 11; v. 274; p. 275.
Rehfuss, Martin O., assignor to John Wanamaker, Philadelphia, Pa. Plate-forming machine. No. 1,341,589; May 25; v. 274; p. 760.
Reichel, Louis J., and W. L. Warner, Chicago, Ill. Locking means for printers' forms. No. 1,339,607; May 11; v. 274; p. 254.
Reid, Edward M., assignor of one-half to W. H. Baker, Cambria, Va. Oiler. No. 1,340,406; May 18; v. 274; p. 463.
Reid, John. (See Platt, W. O., and Reid.)
Reid, Joseph, Gas Engine Company. (See Platt, W. O., and Reid, assignors.)
Reid, William, Hamilton, Scotland. Connection with apparatus for tipping wagons. No. 1,340,683; May 18; v. 274; p. 515.
Reinhardt, A. E., *et al.* (See Lionne, Ernest, assignor.)
Reinhardt, Christian, and A. Leibundgut, New York, N. Y. Reeling device. No. 1,340,981; May 25; v. 274; p. 643.
Reinl, Herman, Secaucus, N. J. Sash-lock. No. 1,339,670; May 11; v. 274; p. 267.
Remington Typewriter Company. (See Barr, John H., assignor.)
Remy Electric Company. (See Conklin, Oliver F., assignor.)
Renaud, Eugène Lavergne dit, Montreal, Quebec, Canada. Card-holder for record systems and the like. No. 1,338,790; May 4; v. 274; p. 26.
Replogle, Daniel B., Berkeley, Calif. Vacuum-cleaner handle. No. 1,338,791; May 4; v. 274; p. 27.
Requa, Richard S., San Diego, Calif. Hollow tile. No. 1,341,071; May 25; v. 274; p. 660.
Requillart, Edouard. (See Contal, C., and Requillart.)
Research Corporation. (See Meston, Archibald F., assignor.)
Research Corporation. (See Schmidt, W. A., and Bradley, assignors.)
Renzé, Désiré M., Rennes, France. Fishing-reel. No. 1,341,519; May 25; v. 274; p. 747.
Rex Company, The. (See Helenboit, George S., assignor.)
Rex Typewriter Company. (See Henry, Hubert K., assignor.)
Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain tire-grip. No. 1,339,979; May 11; v. 274; p. 325.
Reyburn, John R., Bridgeport, Conn., assignor to American Chain Company, Inc. Tire-grip tightener. No. 1,340,184; May 18; v. 274; p. 421.
Reynolds, Arthur W., Newton, Conn. One-horse sulky-cultivator. No. 1,339,864; May 11; v. 274; p. 303.
Reynolds, Frank H., Sioux City, Iowa, assignor, by mesne assignments, to Ideal Removable Body Company, Chicago, Ill. Truck. No. 1,341,197; May 25; v. 274; p. 685.
Reynolds, George L., Boston, Mass., assignor to The Phonoharp Company, East Boston, Mass. Keyed zither. No. 1,341,072; May 25; v. 274; p. 660.
Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Cross-bar switch. No. 1,339,001; May 4; v. 274; p. 65.
Reynolds, John N., Greenwich, Conn., and F. A. Stearn, Patterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,340,982; May 25; v. 274; p. 643.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,339,002; May 4; v. 274; p. 65.
Rhoades, Alonzo E., Hopedale, assignor to Draper Corporation, Hopedale, Mass. Friction-clutch pulley. No. 1,340,559; May 18; v. 274; p. 492.
Rhotanium Company, The. (See Fahrenwald, Frank A., assignor.)
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Twine ball. No. 1,340,254; May 18; v. 274; p. 434.
Rice, George L., Chicago, Ill., assignor, by mesne assignment, to International Harvester Company. Twine ball. No. 1,340,837; May 18; v. 274; p. 544.
Rice, Joel A. (See Rice, Joel T., J. A., and R. A.)
Rice, Joel T., J. A., and R. A., New York, N. Y. Anti-friction-bearing. No. 1,338,868; May 4; v. 274; p. 40.
Rice, Joseph M., Missoula, Mont. Signal device for motor-vehicles. No. 1,340,292; May 18; v. 274; p. 441.
Rice, Lewis C., Fort Wayne, Ind. Machine for recovering essential oils from citrus fruits. No. 1,341,341; May 25; v. 274; p. 712.
Rice, Royal A. (See Rice, Joel T., J. A., and R. A.)
Rice, William, New York, N. Y. Fireproof film-reel. No. 1,339,366; May 4; v. 274; p. 132.
Rich, Edward P., Chicago, Ill. Heating system. No. 1,338,961; May 4; v. 274; p. 57.
Rich, George R., Battle Creek, Mich. Tappet for internal-combustion engines. No. 1,339,421; May 11; v. 274; p. 218.
Richards, George, Westminster, London, England. Means applicable for use in milling screw-threads. No. 1,339,223; May 4; v. 274; p. 106.
Richards, Horace J., Watervliet, N. Y. Thermometer-holder. No. 1,339,288; May 4; v. 274; p. 117.
Richards, John W., Ralston, Ky. Rat-trap. No. 1,339,135; May 4; v. 274; p. 91.
Richardson, William D., assignor to Swift and Company, Chicago, Ill. Apparatus for making catalyzers. No. 1,338,698; May 4; v. 274; p. 9.
Ricks, Elbert E., Philadelphia, Pa. Window cleaner and wiper. No. 1,341,590; May 25; v. 274; p. 760.
Rideout, William A. (See Maxcy, W. G., and Rideout.)
Ridgway, Herbert N., Winthrop, Mass. Amusement apparatus. No. 1,341,219; May 25; v. 274; p. 689.
Ridgway, Herbert N., Winthrop, Mass. Amusement apparatus. No. 1,341,220; May 25; v. 274; p. 689.
Rieger, Henry E. (See White, F. M., and Rieger.)
Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Signal system for moving vehicles. No. 1,340,500; May 18; v. 274; p. 480.
Rintoul, William. (See Nathan, F. L., Rintoul, and Baker.)
Rio Grande Valley Bank & Trust Co., administrator. (See McClintock, Charles D.)
Rios, Ernesto G., Chicago, Ill. Rule. No. 1,338,962; May 4; v. 274; p. 57.
Risdon, I. V. (See Risdon, William N., assignor.)
Risdon, William N., assignor of one-half to Mrs. I. V. Risdon, Watsonville, Calif. Fruit pitter and cutter. No. 1,339,367; May 4; v. 274; p. 132.
Riseborough, Furling, Monroe Center, Ill. Farm-tractor. No. 1,341,480; May 25; v. 274; p. 740.
Risinger, Frank V., assignor to The Block Gas Mantle Co., Youngstown, Ohio. Vacuum-feed attachment for carbureters. No. 1,340,983; May 25; v. 274; p. 643.
Rix, Milton H. (See Thompson, Harry E., Linsley, and Rix.)
Roach, Patrick J., and D. Carter, Toronto, Ontario, Canada. Meter for liquids. No. 1,340,293; May 18; v. 274; p. 441.
Robb, Jordan, Xenia, Ohio. Protector for celluloid curtain-windows. No. 1,340,912; May 25; v. 274; p. 629.
Robbins, Charles E., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Printing-head for marking-machines. No. 1,341,021; May 25; v. 274; p. 650.
Roberge, James Z., Dallas, Tex. Automobile-tool. No. 1,339,289; May 4; v. 274; p. 117.
Roberson, William S. (See Foister, John L., assignor.)
Roberts, Henry T., New York, N. Y. Making wrenches. No. 1,340,560; May 18; v. 274; p. 492.
Roberts, Lafe O., Portland, Oreg. Surgical appliance. No. 1,340,501; May 18; v. 274; p. 481.
Roberts, Lyman R., Rutherford, N. J. Ribbon movement. No. 1,338,699; May 4; v. 274; p. 10.
Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, Pa. Thermostatic valve mechanism. No. 1,339,368; May 4; v. 274; p. 132.
Robertshaw, George A. (See Robertshaw, Frederick W., and G. A.)
Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Drop-stitch mechanism for knitting-machines. No. 1,339,715; May 11; v. 274; p. 275.
Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. End folding and sealing machine for cartons. No. 1,338,749; May 4; v. 274; p. 19.
Robinson, William H., assignor of one-half to E. Kendall, Brooklyn, N. Y. Vehicle-tire. No. 1,340,984; May 25; v. 274; p. 643.
Roble, Pedro, Bogota, Colombia. Typewriting-machine. No. 1,339,369; May 4; v. 274; p. 133.
Roche, John W., Philadelphia, Pa., assignor of one-half to E. M. Sleppy, Binghamton, N. Y. Purifier. No. 1,339,980; May 11; v. 274; p. 325.
Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
Rockwell, Christopher W. (See Rockwell, Welcome A., and C. N.)
Rockwell, Welcome A., and C. N., Groton, Conn. Railway safety device. No. 1,339,136; May 4; v. 274; p. 91.
Rod, Lars, Washington, D. C. Serving apparatus for dining-tables. No. 1,339,525; May 11; v. 274; p. 238.
Rodgers, Robert E., and T. C. Jackson, Chicago, Ill. Apparatus for laying roadbeds. No. 1,339,069; May 4; v. 274; p. 78.
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analysis apparatus. No. 1,340,838; May 18; v. 274; p. 544.
Roe, John J. A., Manchester, England. Ventilator. No. 1,340,673; May 18; v. 274; p. 513.

Roehrig, Bernard F., Pasadena, Calif. Capping bottles. No. 1,339,370; May 4; v. 274; p. 133.
Roffeis, Frank J., Helena, Mont. Envelop for burning tobacco. No. 1,339,577; May 11; v. 274; p. 248.
Rogers, Edwin M., New York, N. Y. Air-lift apparatus. No. 1,339,137; May 4; v. 274; p. 92.
Rogers, Ernest, Cleveland, Ohio. Spark-plug. No. 1,340,674; May 18; v. 274; p. 514.
Rogers, Homer S., assignor to J. R. Ball, Milwaukee, Wis. Pneumatic pump. No. 1,339,224; May 4; v. 274; p. 106.
Rogers, Howard C. (See Schroeder, Albert, assignor.)
Rogers, Joel H., Jacksonville, Fla. Bracket. No. 1,340,684; May 18; v. 274; p. 516.
Rolen, John P., Knoxville, Tenn., assignor to Draper Corporation, Hopedale, Mass. Filling, clamping, and parting mechanism for looms. No. 1,341,022; May 25; v. 274; p. 651.
Rolfe, Charles A., Redlands, Calif. Golf game. No. 1,338,963; May 4; v. 274; p. 58.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit-breaker. No. 1,339,981; May 11; v. 274; p. 325.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rollins, Martin P., Cherrydale, Va. Support for multigraph-segments. No. 1,338,964; May 4; v. 274; p. 58.
Ronning, Adolph. (See Ronning, Andrean G. and A.)
Ronning, Andrean G. and A., Minneapolis, Minn. Combination tractor implement. No. 1,340,461; May 18; v. 274; p. 473.
Rose, Benjamin H., Lakewood, Ohio. Means for stacking tire-molds. No. 1,338,844; May 4; v. 274; p. 36.
Rose, Harry B., and W. B. Enck, Buffalo, N. Y. Annealing-box. No. 1,340,675; May 18; v. 274; p. 514.
Rose, James R., Edgeworth, Pa. Manufacturing gaseous fuel. No. 1,339,225; May 4; v. 274; p. 107.
Rose, Sandford C., Port Angeles, Wash. Wheel. No. 1,339,376; May 4; v. 274; p. 134.
Rose, William D. (See White, John W., assignor.)
Rosenbaum, Hellmuth R., Brooklyn, N. Y. Method of and means for extending the usable condition of metallic dies and tools. No. 1,340,913; May 25; v. 274; p. 629.
Rosenbrook, August C., Madison, Wis. Valve-tool. No. 1,339,422; May 11; v. 274; p. 218.
Rosenfeld, Mortimer C., Cleveland, Ohio. Faucet-supporting means. No. 1,339,578; May 11; v. 274; p. 249.
Rosenfeld, Sidney, Cleveland, Ohio. Faucet-supporting collar. No. 1,339,982; May 11; v. 274; p. 325.
Rosenthal, Leon W., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Magneto for irregular ignition. No. 1,341,282; May 25; v. 274; p. 700.
Ross, Charles E., Lebanon, Ohio. Antislipping tire-armor. No. 1,340,629; May 18; v. 274; p. 505.
Ross, Charles J. Company. (See Arata, Antonio J., assignor.)
Ross, Lafayette, East Lynn, W. Va. Rotary crushing-mill. No. 1,340,407; May 18; v. 274; p. 463.
Ross, Oscar A. (See Gerli, P., and Ross.)
Rotermund, William F., Seattle, Wash. Circuit-lock. No. 1,339,003; May 4; v. 274; p. 65.
Rothenberger, John W., Syracuse, Ind. Anti-mouth-breathing device. No. 1,339,865; May 11; v. 274; p. 303.
Rotheram, Thomas, Creighton, Pa., assignor to Pittsburgh Plate Glass Company. Block-turning apparatus. No. 1,339,138; May 4; v. 274; p. 92.
Rothwell, Robert, Keyport, and W. H. Cuttrell, Matawan, N. J., assignor to Whitall Tatum Company, New York, N. Y. Removing fins from rubber articles. No. 1,339,789; May 11; v. 274; p. 289.
Roto Company, The. (See Darlington, Philip J., assignor.)
Rouse, George L., Cincinnati, Ohio. Combined anti-rattler and window-locking device. No. 1,338,792; May 4; v. 274; p. 27.
Rousseau, Sidney A., New Orleans, La. Automatic coupling for fluid-conducting pipes of railway-cars. No. 1,339,042; May 4; v. 274; p. 73.
Rowan, Robert C., Wheaton, assignor to Steel Fabricating Company, Chicago Heights, Ill. Sectional building. No. 1,340,561; May 18; v. 274; p. 492.
Rowe, John, assignor of one-half to S. R. Trotter, Casey, Iowa. Twine-treating attachment for binders. No. 1,340,294; May 18; v. 274; p. 441.
Rowe, W. S., *et al.* (See Salsman, James E., assignor.)
Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Internal-combustion engine. No. 1,339,423; May 11; v. 274; p. 219.
Rowley, George, Spotswood, Victoria, Australia. Twyer. No. 1,338,700; May 4; v. 274; p. 10.
Rownd, Annie K., *et al.* (See Kay, Samuel P., assignor.)
Rowntree, Harold, Kenilworth, assignor to National Pneumatic Company, Chicago, Ill. Power-operated mechanism for moving doors or the like. No. 1,339,671; May 11; v. 274; p. 267.
Royer, Elam M., *et al.* (See Herr, Abram B., assignor.)
Royer, John, Hartville, Ohio. Bed. No. 1,341,342; May 25; v. 274; p. 712.
Royle, Albert E., Paddington, near Sydney, New South Wales, Australia. Heavier-than-air flying-machine. No. 1,340,914; May 25; v. 274; p. 629.
Rubenstein, Nathan, New York N. Y. Clothes-boiler. No. 1,341,073; May 25; v. 274; p. 661.
Rubin, Jacob, Philadelphia Pa. Garment. No. 1,340,915; May 25; v. 274; p. 629.
Rubin, Samuel. (See Page, Adolphus L., assignor.)
Ruczynski, Boleslaw, Indiana Harbor, Ind. Sash-lock. No. 1,340,462; May 18; v. 274; p. 473.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Can-treating apparatus. No. 1,340,408; May 18; v. 274; p. 463.
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Can-cover-removing apparatus. No. 1,340,409; May 18; v. 274; p. 463.
Rudolph, Ida, Otisco, Minn. Clothesline. No. 1,341,591; May 25; v. 274; p. 761.
Ruegg, Henry, Jr., Weehawken, N. J. Heddle. No. 1,341,244; May 25; v. 274; p. 693.
Ruegg, Henry, Jr., Weehawken, N. J. Heddle. No. 1,341,245; May 25; v. 274; p. 694.
Ruehle, Louis H., Emmetsburg, Iowa. Popcorn-heater. No. 1,341,592; May 25; v. 274; p. 761.
Ruhl, George W., assignor of one-half to E. Killman, Barnes, Kans. Direction-indicator. No. 1,340,082; May 11; v. 274; p. 344.
Rumble, William, Jr., Cranford, N. J. Match-box. No. 1,341,074; May 25; v. 274; p. 661.
Runge, William H., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Relieving attachment for lathes and the like. No. 1,339,983; May 11; v. 274; p. 325.
Runge, William H., assignor to The Seneca Falls Manufacturing Co., Inc., Seneca Falls, N. Y. Micrometer-gage or stop device for lathes or the like. No. 1,339,984; May 11; v. 274; p. 326.
Runyan, Benjamin F., assignor of one-half to J. O. Decuir, Houston, Tex. Crude-oil burner. No. 1,339,579; May 11; v. 274; p. 249.
Runyan, Benjamin F., Houston, Tex. Combustion-gas and crude-oil burner. No. 1,339,580; May 11; v. 274; p. 249.
Runzel, William L., assignor to Runzel-Lenz Electric Mfg. Co., Chicago, Ill. Flexible cord. No. 1,340,839; May 18; v. 274; p. 544.
Runzel-Lenz Electric Mfg. Co. (See Runzel, William L., assignor.)
Ruple, George A., San Francisco, Calif. Bracket. No. 1,341,198; May 25; v. 274; p. 685.
Rushing, Joe, Hickory Ridge, Ark. Mail-delivery apparatus. No. 1,340,840; May 18; v. 274; p. 544.
Russell, George H., Pittsfield, Mass. Window-wiping device. No. 1,340,794; May 18; v. 274; p. 536.
Russell, George W., Berryville, Ark. Cleaning apparatus for wells. No. 1,340,295; May 18; v. 274; p. 441.
Russell, Samuel A. (See Sagel, A. C., assignor.)
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,340,685; May 18; v. 274; p. 516.
Russo, Ciro D., New York, N. Y. Banjo. No. 1,341,199; May 25; v. 274; p. 685.
Ryan, John F., Chicago Ill. Index. No. 1,340,410; May 18; v. 274; p. 463.
Ryckman, John, Minneapolis, Minn. Heating apparatus. No. 1,338,965; May 4; v. 274; p. 58.
Rysiek, Casimir, assignor of one-half to L. Sikorski, Chicago, Ill. Utensil-holder. No. 1,341,343; May 25; v. 274; p. 713.
Sabbag, Litfallah G., assignor of one-half to M. A. Metcalf, Boston, Mass. Shedding-motion for looms. No. 1,339,716; May 11; v. 274; p. 275.
Sabin, William W., Portland, Oreg. Demountable lamp-bracket for automobiles. No. 1,340,686; May 18; v. 274; p. 516.
Sabom, Joseph O., Superior, Wis. Caster attachment for stove-legs. No. 1,341,384; May 25; v. 274; p. 721.
Saferlite Lens Company. (See Hobbie, Edward H., assignor.)
Safety Car Heating & Lighting Company. (See Schepmoes, Lindsley, assignor.)
Safety Steering Device Manufacturing Company, The. (See Small, Nathan, assignor.)
Safford, Henry, Little Rock, Ark. Copy and book holder. No. 1,340,411; May 18; v. 274; p. 464.
Sagel, Adolph C., Chicago, assignor, by mesne assignments, to S. A. Russell, River Forest, Ill. Camping outfit. No. 1,341,441; May 25; v. 274; p. 732.
Sailer, Arthur G., assignor to The Sailer & Melvin Manufacturing Company, Massillon, Ohio. Wire-coiling machine. No. 1,340,296; May 18; v. 274; p. 441.
Sailer & Melvin Manufacturing Company, The. (See Sailer, Arthur G., assignor.)
Salazar, Alfredo M., New York, N. Y. Coffee-urn. No. 1,341,520; May 25; v. 274; p. 747.
Salladay, Isaiah R., Ainsworth, Iowa. Door-hanger. No. 1,339,790; May 11; v. 274; p. 289.
Salisbury, Alfred J. (See Ivey, P. D., and Salisbury.)
Salsich, Neil E., Bethlehem, Pa. Switch mechanism. No. 1,341,246; May 25; v. 274; p. 694.
Salsman, James E., Crescentville, assignor of one-twelfth to W. S. Rowe and five-twelfths to H. W. Nichols, Cincinnati, and one-fourth to H. B. Jones, Arlington, Ohio. Tub-beater. No. 1,338,869; May 4; v. 274; p. 40.
Salt, Wellington, Buffalo, N. Y. Combination-gage. No. 1,341,481; May 25; v. 274; p. 740.
Saltzman, Joseph. (See Canman, Carl E., assignor.)
Saltmarsh, Thomas W., and H. F. Gonzalez, Pensacola, Fla. Adjustable flag-holder. No. 1,339,833; May 11; v. 274; p. 297.

Salviolo, Carmine J., deceased, Brooklyn, N. Y.; M. J. Salviolo, executor. Closure for boxes and bottles. No. 1,341,075; May 25; v. 274; p. 661.

Salviolo, Michael J., executor. (See Salviolo, Carmine J.)

Sampson, Charles H., assignor, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-printing machine. No. 1,341,076; May 25; v. 274; p. 661.

Sanders, Alexander B., Miama, Fla. Combination-under-garment. No. 1,339,070; May 4; v. 274; p. 79.

Sanders, John C., assignor of one-half to J. Hawkins, Harrisburg, Pa. Clasp. No. 1,340,985; May 25; v. 274; p. 644.

Sandmann, Frank A., Rahway, N. J. Metal filing-case. No. 1,340,562; May 18; v. 274; p. 492.

Sanford, Henry H., Mansfield, Ohio. Combined solid and gaseous fuel range. No. 1,338,701; May 4; v. 274; p. 10.

Sanger, Charles, Bay St. Louis, Miss. Salvaging apparatus. No. 1,339,717; May 11; v. 274; p. 276.

Sanitary Heating and Ventilating Company. (See Cox, William F., assignor.)

Sanneman, Diedrich B. (See Trubenbach, C. D., and Sanneman.)

Sanowski, Walter, Carnegie, Pa. Rail-fastener. No. 1,339,718; May 11; v. 274; p. 276.

Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Pulling and lifting device. No. 1,339,581; May 11; v. 274; p. 249.

Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Jack. No. 1,339,582; May 11; v. 274; p. 249.

Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Jack. No. 1,339,583; May 11; v. 274; p. 249.

Sargent Company. (See Garren, George S., assignor.)

Sargent & Company. (See Shaw, John H., assignor)

Sas, Elmer. (See Erdoes, J., and Sas.)

Sauer, George H. (See St. John, H. A., and Sauer.)

Sauer, Vonnie O., and F. C. Wegener, Des Moines, Iowa. Hydraulic mixing device; No. 1,341,283; May 25; v. 274; p. 701.

Saunderson, Herbert P., Bedford, England. Change-speed gearing. No. 1,339,477; May 11; v. 274; p. 230.

Savage Tire Company, The. (See Flegal, Forrest G., assignor.)

Savannah Chemical Company *et al.* (See Shuey, Philip M., assignor.)

Savidge, Albert C., and F. D. Hatfield, Indianapolis, Ind. Valve-lathe. No. 1,339,791; May 11; v. 274; p. 289.

Savonius, Sigurd, Helsingfors, Finland. Apparatus for melting snow and the like. No. 1,339,719; May 11; v. 274; p. 276.

Savy, Emile L. A., Courbevoie, France. Coating apparatus. No. 1,341,023; May 25; v. 274; p. 651.

Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Carrier-bearing. No. 1,339,476; May 11; v. 274; p. 229.

Sawyer, Harry B., Ogden, Utah. Safety trolley-finder. No. 1,341,284; May 25; v. 274; p. 701.

Sawyer-Soucy, Albert G. (See Sawyer-Soucy, Louis and A. G.)

Sawyer-Soucy, Louis and A. G., Lynn, Mass. Electric-light regulator. No. 1,340,795; May 18; v. 274; p. 536.

Sayre, William H., Glen Ridge, N. J. Rabble-blade. No. 1,340,916; May 25; v. 274; p. 629.

Scarbrough, Levi, Weldon, Ill. Grappling-tool. No. 1,340,083; May 11; v. 274; p. 374.

Schaanning, Peder C., Vestre Aker, near Christiania, Norway. Magazine grinding apparatus for manufacture of wood-pulp. No. 1,341,156; May 25; v. 274; p. 676.

Schaar & Company. (See Pulsifer, Harrie B., assignor.)

Schaefer, Adolph O., assignor, by mesne assignments, to Atlantic Service Company, Inc., Brooklyn, N. Y. Attachment for saws. No. 1,339,139; May 4; v. 274; p. 92.

Schaefer, Albert B., New York, N. Y. Heel for shoes. No. 1,341,521; May 25; v. 274; p. 747.

Schaefer, Henry G., Cleveland, Ohio. Loading device. No. 1,339,296; May 4; v. 274; p. 118.

Schaefer, William A. L., assignor to Jointless Fire Brick Company, Chicago, Ill. Constructing one-piece fire-brick arch. No. 1,341,077; May 25; v. 274; p. 661.

Schaefer, William A. L., assignor to Jointless Fire Brick Company, Chicago, Ill. Constructing one-piece fire-brick arch. No. 1,341,078; May 25; v. 274; p. 661.

Schafer, William M., Jadwin, Mo. Dirigible light. No. 1,341,593; May 25; v. 274; p. 761.

Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,338,870; May 4; v. 274; p. 41.

Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,339,478; May 11; v. 274; p. 230.

Schall, Henry D., assignor to Detroit Stove Works, Detroit, Mich. Range. No. 1,340,986; May 25; v. 274; p. 644.

Scharff, May. (See Munn, William B., assignor.)

Schatz, Grover H., *et al.* (See Schatz, John W., assignor.)

Schatz, Herman, A., *et al.* (See Schatz, John W., assignor.)

Schatz, John W., assignor of one-third to H. A. Schatz and one-third to G. H. Schatz, Poughkeepsie, N. Y. Manufacture of so-called "cup rings" for antifriction-bearings. No. 1,339,672; May 11; v. 274; p. 267.

Schaub, Jacob, Newark, N. J., assignor to The Theroz Company, New York, N. Y. Artificial-fuel machine. No. 1,340,463; May 18; v. 274; p. 473.

Schaub, Jacob, Lawrenceburg, Ind., assignor to The Theroz Company, New York, N. Y. Mixing-mill. No. 1,340,464; May 18; v. 274; p. 473.

Schell, Charles F., Philadelphia, Pa. Oiling system. No. 1,340,687; May 18; v. 274; p. 516.

Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to Safety Car Heating & Lighting Company. Lamp construction. No. 1,339,985; May 11; v. 274; p. 326.

Schiff, Julian N., New York, N. Y. Multiplex-sheave drum. No. 1,340,297; May 18; v. 274; p. 442.

Schildwachter, Valentine, Peoria, Ill. Traction-lug for vehicles. No. 1,341,079; May 25; v. 274; p. 662.

Schindler, Walter R., Long Beach, Calif. Plant-protecting cap. No. 1,340,631; May 18; v. 274; p. 506.

Schissel, Henry S., Philadelphia, Pa. Self-ejecting record-cabinet. No. 1,339,291; May 4; v. 274; p. 118.

Schlaich, Herman, Brooklyn, N. Y. External ignition device for internal-combustion engines. No. 1,341,619; May 25; v. 274; p. 766.

Schlick, Erva A. (See Niles, Harry F., assignor.)

Schmalkuche, William F., *et al.* (See Landa, Louis F., assignor.)

Schmalkuche, William F., Jr., *et al.* (See Landa, Louis F., assignor.)

Schmelzer, Charles F., Flint, Mich. Milling-machine attachment. No. 1,340,741; May 18; v. 274; p. 526.

Schmid, Gottlob F. and K. O., Indianapolis, Ind. Turbine gas-engine. No. 1,340,563; May 18; v. 274; p. 492.

Schmid, Karl O. (See Schmid, Gottlob F. and K. O.)

Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Electrically welding. No. 1,340,412; May 18; v. 274; p. 464.

Schmidt, Charles D., Woodhaven, N. Y. Hook. No. 1,339,004; May 4; v. 274; p. 65.

Schmidt, Charles D., Woodhaven, N. Y. Hook for use with chains. No. 1,339,986; May 11; v. 274; p. 326.

Schmidt, Jacob J., Ogema, Saskatchewan, Canada. Disk-sharpener. No. 1,339,043; May 4; v. 274; p. 73.

Schmidt, John C., Chicago, Ill. Door-checks. No. 1,339,479; May 11; v. 274; p. 230.

Schmidt, John, Jr., Philadelphia, Pa. Can-filling machine. No. 1,340,185; May 18; v. 274; p. 421.

Schmidt, Oscar. (See Carlucci, Rocco T., assignor.)

Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Separating suspended particles from gases. No. 1,339,480; May 11; v. 274; p. 230.

Schmidt, Walter A., Los Angeles, Calif., and L. Bradley, East Orange, N. J., assignors to Research Corporation, New York, N. Y. Apparatus and method for rectifying high-tension alternating current. No. 1,340,502; May 18; v. 274; p. 481.

Schmidt, Wilhelm, Monroe, Wash. Beet-puller. No. 1,340,706; May 18; v. 274; p. 536.

Schneeweiss, William T., St. Louis, Mo. Device for removing slip-covers. No. 1,340,413; May 18; v. 274; p. 464.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for the application of hydraulic pressure to the interior of a tube being shaped by the self-hooping process. No. 1,338,871; May 4; v. 274; p. 41.

Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Apparatus for self-hooping tubes. No. 1,338,872; May 4; v. 274; p. 41.

Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers. No. 1,340,414; May 18; v. 274; p. 464.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun-supporting platform. No. 1,340,415; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trialers, gun-carriages, and other apparatus. No. 1,340,416; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,417; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable bogie for trailers, gun-carriages, and other apparatus. No. 1,340,418; May 18; v. 274; p. 465.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for training guns mounted on wheeled gun-carriages. No. 1,341,385; May 25; v. 274; p. 721.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for training guns mounted on wheeled gun-carriages. No. 1,341,386; May 25; v. 274; p. 721.

Schneider, Hugo, New York, N. Y. Toilet article. No. 1,339,673; May 11; v. 274; p. 267.

Schnuck, Edward F., Greenburg, N. Y. Coffee-cutting. No. 1,341,200; May 25; v. 274; p. 685.

Schott, Frederick, *et al.* (See Engel, William C., assignor.)

Schou, Christian M. C., Copenhagen, Denmark. Labeling-machine. No. 1,338,793; May 4; v. 274; p. 27.

Schloch, Frank J., Greensboro, N. C. Window-screen. No. 1,340,797; May 18; v. 274; p. 536.

Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Lubricating mechanism. No. 1,341,080; May 25; v. 274; p. 662.

Schoolfield, Lucille D., Danville, Va., assignor of one-fourth to W. L. Edmonston, Washington, D. C. Knitting-needle. No. 1,340,255; May 18; v. 274; p. 434.

Schopper, Albert L., Eudora, Kans. Laced shoe. No. 1,340,503; May 18; v. 274; p. 481.

Schrade, George, New York, N. Y. Attachable heel. No. 1,341,387; May 25; v. 274; p. 721.

Schrage, Louis F., Palatine, Ill. Corn-husker pin. No. 1,340,419; May 18; v. 274; p. 466.

Schranck, Edward V., and E. F. Kunkel, Milwaukee, Wis. Heat-storing attachment for radiator systems. No. 1,338,750; May 4; v. 274; p. 19.

Schrantz, Samuel, St. Louis, Mo. Clasp. No. 1,338,702; May 4; v. 274; p. 10.

Schreier, Herman. (See Downey, Richard F., assignor.)

Schroeder, Albert, Piqua, assignor of one-half to H. C. Rogers, Columbus, Ohio. Street-sweeping machine. No. 1,340,133; May 11; v. 274; p. 254.

Schroeder, Charles, Neillsville, Wis. Spring-trap. No. 1,339,481; May 11; v. 274; p. 230.

Schubert, William W., Chicago, Ill. Timer. No. 1,340,121; May 11; v. 274; p. 352.

Schuetz, Frank A. (See Hamm, W. S., and Schuetz.)

Schumacher, Elmer L., Southbridge, Mass., assignor to American Optical Company. Ophthalmic mounting. No. 1,341,344; May 25; v. 274; p. 713.

Schuster, Karl R., Brooklyn, N. Y. Structural bar. No. 1,339,226; May 4; v. 274; p. 107.

Schutz Hawley Company. (See Schutz, Joseph M., assignor.)

Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Wet coal-mill. No. 1,338,845; May 4; v. 274; p. 30.

Schwank, James O. (See Madigan, Thomas J., assignor.)

Schwartzkopf, Jacob, Hailey, Wyo. Harvester attachment. No. 1,339,627; May 11; v. 274; p. 258.

Schwarzmann, Wolfgang E., and F. D. Norman, Springfield, Mass., assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Shaft-coupling. No. 1,338,751; May 4; v. 274; p. 19.

Schweitzer, Edmund O., Chicago, Ill. Overload-circuit-breaking apparatus. No. 1,340,917; May 25; v. 274; p. 630.

Schweizer, Eugene J. (See Brandt, Charles D., assignor.)

Schweyer, Henry A., Norristown, assignor to S. H. Mensch, Pottstown, Pa. Furnace construction. No. 1,341,594; May 25; v. 274; p. 761.

Schworm, Clarence W., assignor to The Massillon Wire Basket Co., Massillon, Ohio. Bucket-ear. No. 1,339,584; May 11; v. 274; p. 250.

Scism, Arthur G., assignor of one-half to J. R. Cocks, High Point, N. C. Shaft-guard. No. 1,341,595; May 25; v. 274; p. 761.

Scott, Alfred R., Enid, Okla. Cutting-tool. No. 1,341,482; May 25; v. 274; p. 740.

Scott, Charles E., Del Norte, Colo. Potato-receptacle. No. 1,340,798; May 18; v. 274; p. 537.

Scott, David J., *et al.* (See Scott, D. J., and Drange, assignors.)

Scott, David J., and C. E. Drange, Plainfield, N. J., assignors to I. Scott, and D. J. Scott, executors. Printing-machine. No. 1,339,526; May 11; v. 274; p. 239.

Scott, Francis E., *et al.* (See Otto, A., and W., assignors.)

Scott, Henry B., Rock Ferry, England. Grass-border shears. No. 1,338,873; May 4; v. 274; p. 41.

Scott, Isabella, *et al.*, executors. (See Scott, D. J., and Drange, assignors.)

Scott, James A., Los Angeles, Calif. Centering device for pistons, &c. No. 1,340,841; May 18; v. 274; p. 544.

Scott, William M., Tredyffrin township, Chester county, Pa. Shock-proof circuit-breaker structure. No. 1,340,564; May 18; v. 274; p. 493.

Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,340,918; May 25; v. 274; p. 630.

Seal-Tite Piston Ring Company. (See Fosston, Axel A., assignor.)

Seale, Harry V., and W. Shellshear, Broken Hill, New South Wales, Australia, assignor, by mesne assignments, to Minerals Separation North American Corporation. Machine for the separation of sulfid ores. No. 1,341,024; May 25; v. 274; p. 651.

Sear, William J., Baltimore, Md., assignor to W. W. Leister, Quakertown, Pa. Automobile-lifter. No. 1,341,620; May 25; v. 274; p. 766.

Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Drilling-machine. No. 1,339,044; May 4; v. 274; p. 73.

Seas, William J., Baltimore Md., assignor to W. W. Leister, Quakertown, Pa. Automobile-lifter. No. 1,341,621; May 25; v. 274; p. 766.

Seastrunk, Thomas P., Dallas, Tex. Emblem structure. No. 1,340,465; May 18; v. 274; p. 474.

Sebco Company, The. (See Spies, Peter H. F., assignor.)

Sebeto, John, Brooklyn, N. Y. Life-saving device. No. 1,339,227; May 4; v. 274; p. 107.

Sederburg, Henry O., East Mill Creek, Pa. Scaffold-bracket. No. 1,339,482; May 11; v. 274; p. 231.

Seeley, Leonard E., assignor of one-half to T. F. Callely, Wellington, Ohio. Electrolytic alternating-current chemical-rectifier. No. 1,339,907; May 11; v. 274; p. 311.

Seidenberg, Armin, New York, N. Y. Fractionating compound substances containing ingredients of closely-related solubility. No. 1,340,186; May 18; v. 274; p. 421.

Seidenburg, Charles L., assignor to W. Curry, Philadelphia, Pa. Garment-hanger support. No. 1,340,565; May 18; v. 274; p. 493.

Seidl, Rudolf, Minneapolis, Minn. Culinary device. No. 1,340,566; May 18; v. 274; p. 493.

Seifert, John W., Houston, Tex. Closure for Refrigerators and the like. No. 1,340,084; May 11; v. 274; p. 344.

Seitz, James P., Walla Walla, Wash. Tractor-draw-bar attachment. No. 1,340,504; May 18, v. 274; p. 481.

Selah, Howard A., assignor of one-half to Albert C. Pedrick, Newark, N. J. Automatic ballast-shifting device. No. 1,339,628; May 11; v. 274; p. 259.

Selby, Paul. (See Nettle, W. E., Selby, Blyth, and Holman.)

Selden, Charles W., Richmond, Va. Blotting-paper cabinet. No. 1,339,140; May 4; v. 274; p. 92.

Self Seating Valve Company. (See Washburn, William H., assignor.)

Semko, Andrew. (See Sokač, J., and Semko.)

Sendker, Edward A., Bradford, Pa. Automobile-signal. No. 1,338,703; May 4; v. 274; p. 10.

Seneca Falls Manufacturing Co., The. (See Runge, William H., assignor.)

Sera, Ryumatsu, Banning, Calif. Bean-harvesting machine. No. 1,339,674; May 11; v. 274; p. 268.

Serven, A. Ralph, trustee. (See Maxwell, George S., assignor.)

Serwe, Philip L., Chicago, Ill., and G. C. Dickey, Seattle, Wash. Refrigerator display vending-vehicle. No. 1,340,853; May 18; v. 274; p. 547.

Settle, William L., assignor to J. R. Corbett, Memphis, Tenn. Spudding-shoe. No. 1,340,420; May 18; v. 274; p. 466.

Seymour, Mark L., Potlatch, Idaho, assignor of one-third to T. Tucker, and one-third to Washington Machinery and Supply Company, Spokane, Wash. Portable cooking-stove. No. 1,340,421; May 18; v. 274; p. 466.

Shadall, Charles E., Milwaukee, assignor to Shadall Manufacturing Company, Wauwatosa, Wis. Water-closet. No. 1,340,567; May 18; v. 274; p. 493.

Shadall Manufacturing Company. (See Shadall, Charles E., assignor.)

Shafer, Francis M., Moab, Utah. Dating-stamp. No. 1,340,122; May 11; v. 274; p. 352.

Shaffer, Richard M., assignor of one-fourth to C. B. Mann and one-fourth to C. B. Mann, Jr., Baltimore, Md. Aeroplane-propeller. No. 1,338,874; May 4; v. 274; p. 41.

Shambow, John C., Woonsocket, R. I., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttles. No. 1,340,568; May 18; v. 274; p. 493.

Shambow Shuttle Company. (See Shambow, John C., assignor.)

Shannon, Harris M., assignor of one-half to O. Nentwig, Richmond, Tex. Emergency-tire. No. 1,341,345; May 25; v. 274; p. 713.

Shannon, Thomas L. (See Stahlgren, K. A., and Shannon.)

Sharp, Lee C., Plattsmouth, Nebr. Method and means for forming and baking cup-pastry. No. 1,341,081; May 25; v. 274; p. 662.

Sharp, William P., Columbus, Ohio. Curtain-holder for automobile-tops. No. 1,340,799; May 18; v. 274; p. 537.

Sharpnack, Matthew C., Jamison, Nebr. Hose-coupling. No. 1,339,141; May 4; v. 274; p. 92.

Shaver, Archibald G., Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y. Brake-pipe valve. No. 1,339,720; May 11; v. 274; p. 276.

Shaw, Frederick H., *et al.* (See Dobbins, Michael G., assignor.)

Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,339,721; May 11; v. 274; p. 276.

Shaw, John N., Seattle, Wash. Coffee-urn. No. 1,341,285; May 25; v. 274; p. 701.

Shaw, Oscar A., Atlanta, Ga. Chair. No. 1,341,596; May 25; v. 274; p. 760.

Shaw, Vernon. (See Hutchinson, J. T., Shaw, and Barnes.)

Shea, Francis A. (See Tucker, Frank W., assignor.)

Sheldon, Samuel B., Duluth, Minn. Ingot-pouring mechanism. No. 1,340,422; May 18; v. 274; p. 466.

Shellshear, Wilton. (See Seale, H. V., and Shellshear.)

Sherlock, Charles B., and J. B. Morse, Washington, D. C. Cutter. No. 1,340,800; May 18; v. 274; p. 537.

Sherman, Willis S., Milwaukee, Wis. End-matcher. No. 1,338,704; May 4; v. 274; p. 11.

Shields, Mark M., Republic, Wash. Trap. No. 1,340,801; May 18; v. 274; p. 537.

Shigley, Cyrus C., Grand Rapids, assignor to Electric Phonograph Co., Kalamazoo, Mich. Reproducer. No. 1,340,298; May 18; v. 274; p. 442.

Shimp, William A., Minneapolis, Minn. Valve. No. 1,338,705; May 4; v. 274; p. 11.

Shiner, Albert E., London, England. Rotary pump. No. 1,340,632; May 18; v. 274; p. 506.

Shipman, Charles H., San Francisco, Calif. Operating means for direction-indicators. No. 1,339,071; May 4; v. 274; p. 79.

Shircliffe, Arthur J., Norwood, Ohio. Automatic franking-machine. No. 1,340,987; May 25; v. 274; p. 644.

Shoemaker, George W., Dalton, Pa. Washboard. No. 1,339,292; May 4; v. 274; p. 118.
Shoemaker, Jeremiah J., and C. C. Cox, Akron, Ohio. Manufacturing tire inner tubes. No. 1,341,247; May 25; v. 274; p. 694.
Shoemaker, Samuel M. (See Patten, John, assignor.)
Shong, Carl F., Wichita, Kans. Direction-indicator. No. 1,340,988; May 25; v. 274; p. 644.
Showalter, Jay B. F., Pekin, Ill. Adjustable roof-bracket. No. 1,341,597; May 25; v. 274; p. 762.
Shuey, Philip M., assignor of one-fourth to Savannah Chemical Company and one-fourth to F. I. Gibson, Savannah, Ga. Process and product of making fertilizer material. No. 1,341,598; May 25; v. 274; p. 762.
Shurnuff Manufacturing Company. (See Dean, Clark A., assignor.)
Siamo, Antonio P., Lowell, Mass. Letter-holder for packages. No. 1,338,875; May 4; v. 274; p. 41.
Sieben, Henry, and B. C. Haldeman, assignors to C. C. Hoefer, Kansas City, Mo. Thermal circuit-closers. No. 1,340,919; May 25; v. 274; p. 630.
Siebring, Claude, George, Iowa. Portable hog-fountain. No. 1,340,085; May 11; v. 274; p. 344.
Siedlicks, Charles, Syracuse, N. Y. Ash-hoist. No. 1,339,072; May 4; v. 274; p. 79.
Siegel, Anna. (See Siegel, Samuel, assignor.)
Siegel, Hermann. (See Zelewski, R. v., and Siegel.)
Siegel, Samuel, assignor to A. Siegel, New York, N. Y. Note-indicator for pianos. No. 1,340,569; May 18; v. 274; p. 493.
Sigman, Samuel C., Gladwin, Mich. Door-lock. No. 1,341,599; May 25; v. 274; p. 762.
Sikorski, Ludwik. (See Rysiek, Casimir, assignor.)
Silva, Juan N., Dover, Ohio. Kiln. No. 1,340,633; May 18; v. 274; p. 506.
Silvius, Ellis T., Indianapolis, Ind. Transmission and controlling gearing. No. 1,341,442; May 25; v. 274; p. 732.
Simmen Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)
Simmons, Arthur W., Tyler, Tex. Locomotive driving-box. No. 1,339,228; May 4; v. 274; p. 107.
Simmons Company. (See Alleman, Edward C., assignor.)
Simmons Company. (See Bayer, Matthew F., assignor.)
Simmons, John M., Boise, Idaho. Window for automobile-curtains. No. 1,341,082; May 25; v. 274; p. 662.
Simmons, John T., Brownwood, assignor of one-half to Hughes Tool Company, Houston, Tex. Pipe-puller. No. 1,340,676; May 18; v. 274; p. 514.
Simpson, William G., Detroit, Mich. Hydrocarbon or gasolene turbine-motor. No. 1,339,483; May 11; v. 274; p. 231.
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See Corrall, H., and Heggie, assignors.)
Singer Manufacturing Company, The. (See Hleb, Peter, assignor.)
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Sjoberg, John G., Oakland, Calif. Ship-launching control device. No. 1,339,293; May 4; v. 274; p. 118.
Skerl, Francesco, and Forrest J. Graef, assignors to The National Cash Register (Incorporated 1906) Company, Dayton, Ohio. Ticket-issuing accounting-machine. No. 1,338,876; May 4; v. 274; p. 42.
Skinner, Allan D., Erie, Pa. Steam-heated piston. No. 1,339,629; May 11; v. 274; p. 259.
Skinner, Burr R., Aberdeen, S. D. Means for heating boiler feed-water. No. 1,341,443; May 25; v. 274; p. 732.
Skinner, Le Grand, Erie, Pa. Steam-engine. No. 1,339,630; May 11; v. 274; p. 259.
Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Drawing glass sheets. No. 1,339,229; May 4; v. 274; p. 107.
Sleppy, E. M. (See Roche, John W., assignor.)
Sloan, James W., Tulsa, Okla. Blank for manufacture of boiler-bottoms. No. 1,339,722; May 11; v. 274; p. 277.
Sloan, William E., Chicago, Ill. Closet-seat device. No. 1,339,585; May 11; v. 274; p. 250.
Slocum, Avram & Slocum Laboratories. (See Burchett, Walter J., assignor.)
Slocum Laboratories. (See Avram, Mois H., assignor.)
Slocum, Louise S., Brooksville, Fla. Comfort-frame. No. 1,341,483; May 25; v. 274; p. 740.
Sloe, Joseph E. (See Lobar, Abraham J., assignor.)
Small, Chesley T., St. Louis, Mo. Seaming-roll. No. 1,340,842; May 18; v. 274; p. 544.
Small, Nathan, asignor to The Safety Steering Device Manufacturing Company, Baltimore, Md. Steering device. No. 1,339,294; May 4; v. 274; p. 118.
Smallwood, Alfred, Highgate, London, England. Furnace for the annealing, hardening, quenching, or like heat treatment of metals and the like. No. 1,339,424; May 11; v. 274; p. 219.
Smiley, Glenn A., Fort Wayne, and O. Smiley, Indianapolis, Ind. Railway-ticket. No. 1,341,346; May 25; v. 274; p. 713.
Smiley, Orvall. (See Smiley, Glenn A. and O.)
Smiley, Orvall, Indianapolis, Ind. Motor-stethoscope. No. 1,340,299; May 18; v. 274; p. 442.
Smiley, Orvall, Indianapolis, Ind. Motor-stethoscope. No. 1,340,300; May 18; v. 274; p. 442.
Smith, Albert D., Detroit, Mich. Feed mechanism for sewing-machines. No. 1,341,388; May 25; v. 274; p. 721.
Smith, Amzy L. (See Myers, W. S., and Smith.)
Smith, A. O. Corporation. (See Miller, Henry, assignor.)
Smith, Arthur V. (See Kissell, Isaac J., assignor.)
Smith, Charles L., Regan, N. D. Fish-lure. No. 1,338,877; May 4; v. 274; p. 42.
Smith, Edward A., New York, N. Y. Protecting device for ships. No. 1,338,706; May 4; v. 274; p. 11.
Smith, Evelina P., Chicago, Ill. Couch. No. 1,339,608; May 11; v. 274; p. 255.
Smith, Floyd, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company. Parachute. No. 1,340,423; May 18; v. 274; p. 466.
Smith, Floyd, Aerial Equipment Company. (See Smith, Floyd.)
Smith, Frank J., New York, N. Y. Printer's cabinet. No. 1,341,389; May 25; v. 274; p. 722.
Smith, George H. (See Dunbar, H. W., Turner, and Smith.)
Smith, Grant E., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y. Steering-post bearing. No. 1,339,987; May 11; v. 274; p. 326.
Smith, Harry J., *et al.* (See Vyne, Ray N., assignor.)
Smith, Harry O., Kansas City, Mo. Fastener. No. 1,341,600; May 25; v. 274; p. 762.
Smith, Henry, assignor of one-half to J. E. Bridgers, Richmond, Va. Key-ring attachment. No. 1,339,631; May 11; v. 274; p. 259.
Smith, Herbert W., Coon Rapids, Iowa. Window-shade bracket. No. 1,341,025; May 25; v. 274; p. 651.
Smith, Jack, New York, N. Y. Scenic amusement apparatus. No. 1,340,570; May 18; v. 274; p. 494.
Smith, James E., Gaxney, S. C. Lug-strap support. No. 1,339,295; May 4; v. 274; p. 118.
Smith, John W., Philadelphia, Pa. Air-cooling mechanism for internal-combustion engines for flight-motors. No. 341,444; May 25; v. 274; p. 732.
Smith, Joseph H., assignor to W. J. Platt, Oakland, Calif. Rotary pump. No. 1,339,723; May 11; v. 274; p. 277.
Smith, Kleber W., Freeport, Me. Gasolene-delivery tank. No. 1,338,878; May 4; v. 274; p. 42.
Smith, Oliver A., Seattle, Wash. Milk-bottle hanger. No. 1,339,792; May 11; v. 274; p. 289.
Smith, Raymond D., assignor to Tremont Products Company, Roston, Mass. Delayed cut-off for Bunsen gas-burners. No. 1,340,843; May 18; v. 274; p. 545.
Smith, Reuben S., assignor, by mesne assignments, to Briggs and Stratton Company, Milwaukee, Wis. Carbureter. No. 1,340,123; May 11; v. 274; p. 252.
Smith, S. Morgan, Company. (See Felthousen, John H., assignor.)
Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Aerial-cable guide. No. 1,340,989; May 25; v. 274; p. 644.
Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,340,505; May 18; v. 274; p. 481.
Smith, William H., Falkirk, assignor to The Filbar Electric Heater, Limited, London, England. Liquid-operated electric switch. No. 1,340,086; May 11; v. 274; p. 344.
Smith, Virgil L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transformer. No. 1,339,793; May 11; v. 274; p. 290.
Smithback, Neal, and W. H. Meier, Madison, Wis. Grain-door. No. 1,340,506; May 18; v. 274; p. 482.
Smithey, Marvin. (See Miller, Charles F., assignor.)
Snelerson, Samuel L., Roxbury, assignor to Independent Button Fastener Machine Co., Boston, Mass. Button-feed mechanism for button-attaching machines. No. 1,339,324; May 4; v. 274; p. 124.
Snelling, Walter O., Allentown, Pa. Photochemical apparatus. No. 1,339,675; May 11; v. 274; p. 268.
Snickers, Edward, Matlock, Wash. Lid-lifter for receptacles. No. 1,341,390; May 25; v. 274; p. 722.
Snideman, Frank A., Gary, Ind. Pull-out device for motor-vehicles. No. 1,340,349; May 18; v. 274; p. 452.
Snider, Charles A., Atlanta, Ga. Double-acting metal-planer. No. 1,340,256; May 18; v. 274; p. 434.
Snodgrass, Charles C., Pittsburgh, Pa. Spark-plug. No. 1,341,221; May 25; v. 274; p. 689.
Snyder, Edgar W. (See Kryder, F. L., and Snyder.)
Snyder, Edward L., Harrisburg, Pa. Differential gearing. No. 1,341,286; May 25; v. 274; p. 701.
Snyder, Hubberd J., Tacoma, Wash. Lumber-loading roll for cars. No. 1,340,507; May 18; v. 274; p. 482.
Societe des Anciens Etablissements Weyher et Richemond. (See Guyot-Sionnest, René, assignor.)
Societe Des Moteurs Salmson (Systeme Canton-Unne). (See Postel-Vinay, Pierre J. R., assignor.)
Societe du Carburateur Zenith. (See Boulade, Antonin, assignor.)
Societe Lorraine Des Anciennes Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)

Soderstrom, Oscar, New York, N. Y., and W. Fuhrmann, Westfield, N. J. Machine for making snap-fasteners. No. 1,340,634; May 18; v. 274; p. 506.
Soknè, John, and A. Semko, Kingston, Pa. Combination table and receptacle. No. 1,341,083; May 25; v. 274; p. 662.
Sollaway, Stephen P., Wilmington, Del. Waterproofing composition and making and using same. No. 1,339,724; May 11; v. 274; p. 277.
Somerville, Philip, Vancouver, British Columbia, Canada. Pulp heating and agitating apparatus. No. 1,341,287; May 25; v. 274; p. 701.
Sommers, Adolph H., Allentown, Pa. Heel. No. 1,340,571; May 18; v. 274; p. 494.
Sonnichsen, Andreas M., Chicago, Ill. Constructing air-pumps. No. 1,340,844; May 18; v. 274; p. 545.
Sosa, Augustus M., assignor to The American Tool Works Company, Cincinnati, Ohio. Drilling machinery. No. 1,338,752; May 4; v. 274; p. 19.
Sosskin, Harry, Philadelphia, Pa. Radiator. No. 1,338,753; May 4; v. 274; p. 19.
Spadafora, Joseph, Cambridge, Mass. Resilient tire. No. 1,341,391; May 25; v. 274; p. 722.
Spadafora, Joseph, Cambridge, Mass. Transmission-gearing. No. 1,341,392; May 25; v. 274; p. 722.
Spahr, Otto, assignor to Strause Gas Iron Co., Philadelphia, Pa. Sadiron. No. 1,340,257; May 18; v. 274; p. 434.
Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven carrier. No. 1,338,794; May 4; v. 274; p. 27.
Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven pocketed carrier. No. 1,338,795; May 4; v. 274; p. 27.
Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carrier and producing same. No. 1,339,794; May 11; v. 274; p. 290.
Spalding, George W., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carried and producing same. No. 1,339,795; May 11; v. 274; p. 290.
Sparks, John W., Clear Lake, Iowa. Chair-swing. No. 1,338,296; May 4; v. 274; p. 119.
Sparks, William, Jackson, Mich. Float. No. 1,340,572. May 18; v. 274; p. 494.
Speer, John G., assignor of one-half to U. S. Williams, Wichita, Kans. Saw-oiler. No. 1,340,742; May 18; v. 274; p. 526.
Speicher, Samuel J., Pittsburgh, Pa. Dust-valve. No. 1,339,005; May 4; v. 274; p. 66.
Sperling, Leopold N., and C. J. Harris, Youngstown, Ohio; said Harris assignor to said Sperling. Collapsible screen for baby-carriages. No. 1,339,527; May 11; v. 274; p. 239.
Sperling, Oscar, New York, N. Y. Illuminated display apparatus. No. 1,341,201; May 25; v. 274; p. 686.
Spery, Charles F., assignor to Hooven Radiator Company, Chicago, Ill. Radiator-core plate. No. 1,340,258; May 18; v. 274; p. 434.
Sperry Gyroscope Company, The. (See Bauer, Franz, assignor.)
Sperry, Lawrence, Air Craft Company, The. (See Sperry, Lawrence B., assignor.)
Sperry, Lawrence B., Brooklyn, assignor to The Lawrence Sperry Air Craft Company, Inc., New York, N. Y. Aeroplane height-indicator. No. 1,339,006; May 4; 1. 274; p. 66.
Spetch, Charlie. Palmyra, Nebr. Road-grader. No. No. 1,339,866; May 11; v. 274; p. 304.
Spicer, Elmer D., assignor to Moore Steam Turbine Corporation, Wellsville, N. Y. Packing for steam-turbine. No. 1,339,297; May 4; v. 274; p. 119.
Spies, Peter H. F., assignor to The Sebco Company, Incorporated, Buffalo, N. Y. Machine for baking ice-cream cones, &c. No. 1,341,084; May 25; v. 274; p. 663.
Spinney, Burton A., Des Moines, Iowa. Clutch control for tractors. No. 1,341,222; May 25; v. 274; p. 689.
Splitdorf Electrical Company. (See Broegger, Ivar W., assignor.)
Splitdorf Electrical Company. (See Lang, George L., assignor.)
Splitdorf Electrical Company. (See Libby, A. D. T., and Borger, assignors.)
Springer, Elijah H., assignor of one-half to E. C. Ashton, Salt Lake City, Utah. Pusher for Grain-heading machine. No. 1,338,707; May 4; 274; p. 11.
Squassi, Alessandro. (See Cortese, E., Crespi, and Squassi.)
Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Sound-tube for talking-machines. No. 1,341,522; May 25; v. 274; p. 747.
Squires, Charles W., Beverly, Mass. Circuit-closer. No. 1,341,347; May 25; v. 274; p. 713.
St. John, Henry A., and G. H. Sauer, Utica, N. Y. Folding dining-room set. No. 1,339,232; May 4; v. 274; p. 108.
Stafford, David G., Phoenix, British Columbia, Canada. Automatic control mechanism for hoisting machinery and the like. No. 1,340,301; May 18; v. 274; p. 442.
Stafford, Thomas H., Franklin, N. H. Gas-mantle lamp. No. 1,340,424; May 18; v. 274; p. 466.
Stahl, Michael, assignor to Cultitractor Company, Minneapolis, Minn. Traction-engine. No. 1,338,754; May 4; v. 274; p. 20.
Stahell, Reitmann & Co (See Züst, P., and Metzger, assignors.)
Stahlgren, Karl A., Newport, R. I. Hydrocarbon-burner. No. 1,341,524; May 25; v. 274; p. 748.
Stahlgren, Karl A., and T. L. Shannon, Newport, R. I. Apparatus for extracting grease from organic matter. No. 1,341,523; May 25; v. 274; p. 747.
Stahlhuth, Samuel G. (See Hiller, Charles, assignor.)
Standard Battery Manufacturing Company. (See Hawkins, Alda F., assignor.)
Standard Car Truck Company. (See Barber, John C., assignor.)
Standard Machinery Company. (See Zahn, Otto E., assignor.)
Standard Parts Company, The. (See Utz, John G., assignor.)
Standard Tank Car Company. (See Wood-Smith, George F., assignor.)
Standard Thermometer Company. (See Adair, Thomas D., Jr., assignor.)
Standard Thermometer Company. (See Naugle, Joseph R., assignor.)
Stanley, Robert B., Kansas City, Mo. Paper-hanger's cutting-board. No. 1,341,445; May 25; v. 274; p. 733.
Starkie, Nellie. (See Starkie, Robert E. and N.)
Starkie, Robert E. and N., Burnley, England. Combined toy and savings-bank. No. 1,338,879; May 4; v. 274; p. 42.
Starkweather, George A., Fort Madison, Iowa. Shock-absorber. No. 1,339,484; May 11; v. 274; p. 231.
Starrett, Harold E., Olaa, Hawaii. Mulsh-layer. No. 1,341,484; May 25; v. 274; p. 741.
Stanfenbell, Karl, Dubuque, Iowa. Collar-clip. No. 1,339,073; May 4; v. 274; p. 79.
Staver, Fred C., Avis, Pa. Combination-lock. No. 1,338,796; May 4; v. 274; p. 28.
Stead, William T., Memorial Center. (See Davison, Charles W., assignor.)
Stearn, Franklin A. (See Reynolds, J. N., and Stearn.)
Stearns and Foster Company, The. (See Paddack, Truman G., assignor.)
Steel Fabricating Company. (See Rowan, Robert C., assignor.)
Steele, Hugh C., Minneapolis, Minn. Traction-belt. No. 1,339,298; May 4; v. 274; p. 119.
Steele, John H. (See Lane, C. H., and Steele.)
Steere, Thomas E. (See Fearman, Robert H., assignor.)
Stefanlak, Stanley. (See Velchansky, J. A., and Stefanlak.)
Stein, Samuel F., Williamsport, Pa. Label. No. 1,339,007; May 4; v. 274; p. 66.
Steinbauer, Edwin O., Niles, Mich. Priming attachment for internal-combustion engines. No. 1,340,087; May 11; v. 274; p. 345.
Steinberger, Louis, Brooklyn, N. Y. Insulating-collector or distributer-spool. No. 1,339,988; May 11; v. 274; p. 326.
Steinmetz, Joseph A., Philadelphia, Pa. Navigating aircraft. No. 1,340,573; May 18; v. 274; p. 494.
Stenbo, Kristen S., Copenhagen, Denmark. Grinding-mill for coffee. No. 1,340,635; May 18; v. 274; p. 506.
Stender, William, Milwaukee, Wis. Bottle-feeding mechanism for annealing-ovens. No. 1,339,834; May 11; v. 274; p. 297.
Stengel, Joseph L., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. Stocking-guide for sewing-machines. No. 1,339,230; May 4; v. 274; p. 107.
Stephens, Daniel M. (See Gilbert, G. A., and Stephens, assignors.)
Stephens, Grace H. (See Gilbert, G. A., and Stephens.)
Sterling Products Company Inc. (See Wilkinson, Arthur W., assignor.)
Stern, Louis J., assignor to E. R. Tolfree, Boston, Mass. Water-filter. No. 1,339,045; May 4; v. 274; p. 74.
Sterne, Alfred J., Scarsdale, N. Y. Buckle. No. 1,340,302; May 18; v. 274; p. 442.
Sterne, Alfred J., Scarsdale, N. Y. Buckle. No. 1,340,303; May 18; v. 247; p. 443.
Sterzing, Albert A. E., New York, N. Y. Steam-turbine. No. 1,338,708; May 4; v. 274; p. 11.
Stevens and Company. (See Stevens, Frederick A., assignor.)
Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Bowling-alley. No. 1,339,425; May 11; v. 274; p. 219.
Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. No. 1,338,880; May 4; v. 274; p. 42.
Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)
Stevenson, Cecil V., Sydney, and H. Burgess, Paddington, New South Wales, Australia; said Burgess assignor to said Stevenson. Electric radiator. No. 1,339,935; May 11; v. 274; p. 317.
Stevenson, William G., Chicago, Ill. Car-loading device. No. 1,340,574; May 18; v. 274; p. 494.
Stewart, James G., Minneapolis, Minn. Bundle-carrier attachment for binders. No. 1,340,088; May 11; v. 271; p. 345.
Stewart, Roy C., Portland, Oreg. Spoon and spinner book. No. 1,339,231; May 4; v. 274; p. 108.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined adding and typewriting machine. No 1,339,796; May 11; v. 274; p. 290.

Still, Carl, Recklinghausen, and C. Wessel, Borbeck, near Essen, Germany; said Wessel assignor to said Still. Coke-oven plant. No. 1,340,990; May 25; v. 274; p. 644.

Stillman, Herbert L., Westerly, R. I. Joint-support for light railways. No. 1,341,446; May 25; v. 274; p. 733.

Stimpson, Fred T., *et al.* (See Stimpson, Gordon G., assignor.)

Stimpson, Gordon G., assignor to F. H. Granade and F. T. Stimpson, Birmingham, Ala. Combined portable shower and vapor bath. No. 1,341,485; May 25; v. 274; p. 741.

Stinson, Charles H., Superior, Wis., assignor to Stinson Tractor Company. Dust-collector for carbureters. No. 1,339,609; May 11; v. 274; p. 255.

Stinson Tractor Company. (See Stinson, Charles H., assignor.)

Stock, Guy J., Bradford, England. Production of iron in an electric furnace. No. 1,338,881; May 4; v. 274; p. 43.

Stock, John J., New York, N. Y., assignor of one-half to J. J. Jones, Orlando, Fla. Amusement device. No. 1,339,299; May 4; v. 274; p. 119.

Stockle, Erwin R., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrolonic valve. No. 1,340,575; May 18; v. 274; p. 495.

Stoke, Josiah W., Pendel, Tex. Tool-holding implement. No. 1,339,725; May 11; v. 274; p. 277.

Stokes, J. Stogdell. (See Norotny, Emil E., assignor.)

Stokes, Samuel L., and T. J. Wyatt, Casper, Wyo. Gasolene-feed. No. 1,341,393; May 25; v. 274; p. 723.

Stone, Arthur S., Brooklyn, N. Y. Removable bridge for dental work. No. 1,340,089; May 11; v. 274; p. 345.

Stone, Charles M., assignor of one-half to W. M. Putnam, Lewiston, Me. Picker-stick friction-bunter. No. 1,341,394; May 25; v. 274; p. 723.

Stone, Stewart, Butler, Pa. Pipe-grip. No. 1,339,233; May 4; v. 274; p. 108.

Storz, Charles R., Brooklyn, N. Y. Scissors. No. 1,339,797; May 11; v. 274; p. 290.

Stowe, John F., Lincoln, Nebr. Automatically-releasing clutch. No. 1,340,124; May 11; v. 274; p. 253.

Stranahan, Samuel A., Flint, Mich., assignor to General Motors Corporation, Detroit, Mich. Gasolene-tank-filler cap. No. 1,339,485; May 11; v. 274; p. 231.

Straud, Neil A., Brooklyn, N. Y. Propeller mud-guard for aeroplanes. No. 1,341,202; May 25; v. 274; p. 686.

Strathmore Paper Company. (See Holt, Daniel S., assignor.)

Straus, Alexander L., assignor to Baltimore Process Company, Baltimore, Md. Composition of matter. No. 1,339,528; May 11; v. 274; p. 239.

Strause Gas Iron Co. (See Spahr, Otto, assignor.)

Strauss, Benno, Bredeney, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Object having great strength and great resitsance against the action of acids. No. 1,339,378; May 4; v. 274; p. 134.

Strickland, Dewitt W., assignor of one-eighth to W. H. Brumfield, one-fourth to G. W. Summerall, and one-eighth to J. W. Sullivan, Tylertown, Miss. Trigger for double-barrel guns. No. 1,339,867; May 11; v. 274; p. 304.

Strid, Sven J., Chicago Heights, Ill., assignor to W. H. Miner, Chazy, N. Y. Door-operating mechanism. No. 1,338,755; May 4; v. 274; p. 20.

Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Organized-wheel structure. No. 1,339,676; May 11; v. 274; p. 268.

Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)

Strong, Albin L., Hoboken, N. J. Drill-chuck or the like. No. 1,340,845; May 18; v. 274; p. 545.

Strong, Carlisle and Hammond Company, The. (See Weintz, Jacob, assignor.)

Strong, Deborah V., Akron, Ind. Teapot-strainer. No. 1,339,008; May 4; v. 274; p. 66.

Stroppel, Rudolf. (See Parker, E. G., and Stroppel.)

Stroud, William. (See Barr, A., and Stroud.)

Stuart, Francis L., Greenwich, Conn. Conveyer system. No. 1,339,486; May 11; v. 274; p. 231.

Sturges, Norman D., Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company. Storage-battery. No. 1,340,636; May 18; v. 274; p. 507.

Sturges, Norman D., Bellerose Queens, N. Y., assignor to Multiple Storage Battery Company. Storage battery. No. 1,340,637; May 18; v. 274; p. 507.

Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)

Styll, Harry H. (See Parsons, H. K., and Styll.)

Subers, Lawrence A., Lakewood, Ohio. Tire having a reserve of expansibility. No. 1,339,868; May 11; v. 274; p. 304.

Subers, Lawrence A., Lakewood, Ohio. Laminated cohesive interwound fabric band. No. 1,339,869; May 11; v. 274; p. 304.

Sublett, Benjamin T., assignor of one-half to H. L. Sublett, Danville, Va. Water-bag for filling automobile-radiators. No. 1,341,157; May 25; v. 274; p. 677.

Sublett, Henry L. (See Sublett, Benjamin T., assignor.)

Sullivan, Cecelia L., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven carrier. No. 1,338,797; May 4; v. 274; p. 28.

Sullivan, Herbert W. (See Dean-Osgood, Henry J., assignor.)

Sullivan, J. W., *et al.* (See Strickland, Dewitt W., assignor.)

Sulman, Henry L., and S. Field, assignors to the Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,341,601; May 25; v. 274; p. 762.

Suloff, Noah H. (See Pease, W. E., and Suloff.)

Sulzberger, Nathan, New York, N. Y. Catalyst and producing same. No. 1,338,709; May 4; v. 274; p. 11.

Summerall, G. W., *et al.* (See Strickland, Dewitt W., assignor.)

Summers, Frank E., Memphis, Mo. Receiver for wireless telegraph and telephone circuits. No. 1,338,756; May 4; v. 274; p. 20.

Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Quick-opening separable fastener. No. 1,340,187; May 18; v. 274; p. 422.

Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Relieving attachment for lathes. No. 1,338,757. May 4; v. 274; p. 20.

Superior Machine Company. (See Cooling, Arthur B., assignor.)

Superior Manufacturing Company. (See Woock, Herbert J. and W. R., assignors.)

Superior Tool Company, The. (See Williams, Harry W., assignor.)

Sutherland, Alexander K., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Quick-break switch. No. 1,341,622; May 25; v. 274; p. 766.

Sutton, Louis D., Libby, Mont. Shock-absorber. No. 1,341,395; May 25; v. 274; p. 723.

Swanson, Fred W., Des Moines, Iowa. Combination truck and wagon dump. No. 1,338,798; May 4; v. 274; p. 28.

Swantees, Samuel F., St. Louis, Mo. Cloth fabric. No. 1,341,396; May 25; v. 274; p. 723.

Swarens, John F., Kansas City, Mo. Air-filter for automatic engines. No. 1,339,726; May 11; v. 274; p. 277.

Swart, Walter G., F. A. Jordan, E. W. Davis, and T. B. Counselman, Duluth, Minn. Magnetic sizing and grading of ore. No. 1,339,300; May 4; v. 274; p. 119.

Swartwood, Charles B. (See Swartwood, Charles B., *et al.* (See Swartwood, Charles H., assignor.)

Swartwood, Charles H., Boston, Mass., assignor of one-third to M. Swartwood, Swartwood, and one-third to C. B. Swartwood, Elmira, N. Y. Metallic railway-tie. No. 1,339,301; May 4; v. 274; p. 119.

Swartwood, Miles, *et al.* (See Swartwood, Charles H., assignor.)

Sweet, Meachem D., Alliance, Ohio. Celluloid insulation. No. 1,339,835; May 11; v. 274; p. 298.

Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)

Swenson, Hjalmer A., Brooklyn, N. Y. Lock. No. 1,341,602; May 25; v. 274; p. 762.

Swift and Company. (See Richardson, William D., assignor.)

Switzer, Albert, Grenfell, Saskatchewan, Canada. Grain-car door. No. 1,341,397; May 25; v. 274; p. 723.

Swyers, Brice P., assignor to Motors Lock Company of America, Pittsburgh, Pa. Lock-switch. No. 1,339,302; May 4; v. 274; p. 120.

Swynghedauw, Paul E. G., Charenton, France. Machine for breaking, softening, and scutching fibrous stock. No. 1,341,603; May 25; v. 274; p. 763.

Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Throttle-valve handle for pneumatic drills, holders-on, and other appliances. No. 1,339,426; May 11; v. 274; p. 219.

Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Connecting means for pistons and piston-rods. No. 1,339,427; May 11; v. 274; 219.

Syndicaat Graamans Patent. (See Graamans, Christian A. R., assignor.)

Synohubyk, Semen, Edmonton, Alberta, Canada. Comb. No. 1,341,158; May 25; v. 274; p. 677.

Szczurek, Joe, Chicago, Ill. Air-opener for doors. No. 1,338,882; May 4; v. 274; p. 43.

Szyperski, Edward V., Detroit, Mich. Douche-nozzle. No. 1,338,710; May 4; v. 274; p. 12.

Taber, George H., assignor to Emco Manufacturing Company, Inc., Binghamton, N. Y. Hand-operating device for muffler cut-outs. No. 1,340,802; May 18; v. 274; p. 537.

Tabor, Edward P., assignor of one-fourth to James J. Egan, Worcester, Mass. Rail-grinder. No. 1,340,991; May 25; v. 274; p. 645.

Taft, Robert C., Moline, Ill. Car-underframe. No. 1,340,576; May 18; v. 274; p. 495.

Talbot, Adjutor L. P., Montreal, Quebec, Canada. Means to propel boats or the like. No. 1,340,920; May 25; v. 274; p. 630.

Tangerman, William J., Hammond, Ind. Tank-car anchorage. No. 1,340,188; May 18; v. 274; p. 422.

Tankins, Sacramenta G., Atlantic City, N. J. Comb. No. 1,339,632; May 11; v. 274; p. 259.

Taranto, John, Waltham, Mass., assignor to Draper Corporation, Hopedale, Mass. Shuttle-feeler for looms. No. 1,341,026; May 25; v. 274; p. 651.

Tarbutton, Ralph P., Lima, Ohio. Automatic reversible driving-chuck. No. 1,341,085; May 25; v. 274; p. 663.

Tarkington, Harry K., Connersville, Ind. Curtain-fastener. No. 1,338,883; May 4; v. 274; p. 43.

Tate, Earl H., Los Angeles, Calif. Liquid-fuel burner. No. 1,340,803; May 18; v. 274; p. 537.

Taussig, Gottlieb, New York, and C. Wagenfohr, Brooklyn, N. Y. Educational toy. No. 1,340,304; May 18; v. 274; p. 443.

Taylor, Albert J., Lamasco, Tex. Button-fastener. No. 1,339,234; May 4; v. 274; p. 108.

Taylor, Burt E., Mount Vernon, N. Y. Apparatus for treating and canning milk. No. 1,340,921; May 25; v. 274; p. 630.

Taylor, Edward A., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Dissolving sodium silicate. No. 1,341,288; May 25; v. 274; p. 702.

Taylor, Frederick A., Kansas City, Mo. Latch mechanism for silo-doors. No. 1,340,922; May 25; v. 274; p. 630.

Taylor, Harry C., West Frankfort, Ill. Automatic safety-stop. No. 1,340,305; May 18; v. 274; p. 443.

Taylor, Harold D., York, England. Range-finding and the like instrument. No. 1,339,235; May 4; v. 274; p. 108.

Taylor, Huston, assignor to Detroit Carrier and Manufacturing Company, Detroit, Mich. Fire-pump. No. 1,338,711; May 4; v. 274; p. 12.

Taylor, John L., Oakmont, Pa. Metal barges. No. 1,338,712; May 4; v. 274; p. 12.

Taylor, John S., Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America. Internal-combustion engine. No. 1,339,870; May 11; v. 274; p. 304.

Taylor, John W., Philadelphia, Pa. Parachute. No. 1,340,259; May 18; v. 274; p. 434.

Taylor, Silas P., assignor to Tennessee Implement Sales Co., Loretto, Tenn. Fender. No. 1,339,586; May 11; v. 274; p. 250.

Temple, Harry M., and P. Kearney, assignors to Detroit Closed Bushing Company, Detroit, Mich. End closure for wire-conduits. No. 1,341,398; May 25; v. 274; p. 723.

Templeton Manufacturing Company. (See Templeton, William R., assignor.)

Templeton, William R., assignor to Templeton Manufacturing Company, Boston, Mass. Steam-trap. No. 1,341,027; May 25; v. 274; p. 652.

Tennessee Implement Sales Co. (See Taylor, Silas P., assignor.)

Terry, Cleveland G., Los Angeles, Calif. Stove. No. 1,341,623; May 25; v. 274; p. 766.

Terzich, John M., Sutter Creek, Calif. Time-controlled light. No. 1,339,236; May 4; v. 274; p. 108.

Texas Oil Well Pump Company. (See Mackenzie, Alexander S., assignor.)

Textile Machine Works. (See Airhart, Lewis, assignor.)

Textile Machine Works. (See Janssen, Henry, assignor.)

Thayer, Joseph E., West Bridgewater, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Inseam shoe-sewing machine. No. 1,339,633; May 11; v. 274; p. 259.

Thelsen, Peter P. Chicago, Ill. Pipe connection. No. 1,341,086; May 25; v. 274; p. 663.

Theroz Company, The. (See Schaub, Jacob, assignor.)

Thibault, Joseph, Prince Albert, Saskatchewan, Canada. Sled shoe and runner protector. No. 1,341,087; May 25; v. 274; p. 663.

Thollander, John A., Piedmont, Fla. Sectional tool-ladder. No. 1,340,688; May 18; v. 274; p. 516.

Thomas Foreign Patents Limited. (See Thomas, John G. P., assignor.)

Thomas, John G. P., assignor to The Thomas Foreign Patents Limited, London, England. Transmission of power. No. 1,341,223; May 25; v. 274; p. 689.

Thomas, John W., Daisy, Tenn. Die and spiral. No. 1,338,799; May 4; v. 274; p. 28.

Thompson, Albert W., Lowell, and E. W. Comfort, Winchester, assignors to The G. M. Parks Company, Fitchburg, Mass. Vaporizing device. No. 1,339,303; May 4; v. 274; p. 120.

Thompson, Andrew F., Wellington, Kans. Nut-lock. No. 1,341,604; May 25; v. 274; p. 763.

Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,340,804; May 18; v. 274; p. 538.

Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Registering-circuits for coin-boxes. No. 1,340,260; May 18; v. 274; p. 435.

Thompson, George T., Washington, D. C. Light-projecting apparatus. No. 1,339,304; May 4; v. 274; p. 120.

Thompson, George W., Cheboygan, Mich. Valve. No. 1,339,798; May 11; v. 274; p. 290.

Thompson, Harry E., R. B. Linsley, and M. H. Rix, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co. Standpipe. No. 1,338,846; May 4; v. 274; p. 36.

Thompson, J. D., administrator. (See Thompson, William H.)

Thompson, James T., Washington, D. C. Lighting-fixture. No. 1,340,261; May 18; v. 274; p. 435.

Thompson, Joseph W., Carbonado, assignor to E. Duffey, Seattle, Wash. Grease-gun attachment. No. 1,339,237; May 4; v. 274; p. 109.

Thompson, Orville W., Chicago, Ill. Gage. No. 1,339,989; May 11; v. 274; p. 327.

Thompson, Robert A., and L. P. Morris, assignors to International Manufacturing Company of Texas, Dallas, Tex. Churn. No. 1,340,466; May 18; v. 274; p. 474.

Thompson, William H., deceased, Memphis, Tenn.; J. D. Thompson, administrator, assignor, by mesne assignments, to R. T. Van Riper, Dallas, Tex. Prepay time-controlled-service apparatus. No. 1,339,634; May 11; v. 274; p. 260.

Thomson, Electric Welding Company. (See Von Henke, Edmund J., assignor.)

Thomson, John C., Chicago, Ill. Doughnut-making machine. No. 1,340,805; May 18; v. 274; p. 538.

Thordarson, Chester H., Chicago, Ill. Transformer. No. 1,338,884; May 4; v. 274; p. 43.

Thorell, Swan O., Denver, Colo. Foldable square. No. 1,340,125; May 11; v. 274; p. 253.

Thorne, Frederick W., Chicago, Ill. Strap and fastening. No. 1,340,350. May 18; v. 274; p. 452.

Thornycroft, John E. (See Thornycroft, T. and J. E.)

Thornycroft, Tom and J. E., Westminster, England. Gun for discharging projectiles by gases supplied thereto under pressure. No. 1,340,689; May 18; v. 274; p. 517.

Thorpe, Herbert R., Holyoke, Mass. Stationery-package. No. 1,339,908; May 11; v. 274; p. 311.

Thorsgard, Henry, *et al.* (See Flagstad, Cornell, assignor.)

Thorsgard, Knut, *et al.* (See Flagstad, Cornell, assignor.)

Threadgill, Wilmer, Laredo, Tex. Machine for picking cotton. No. 1,340,577; May 18; v. 274; p. 495.

Three Leaf Cot Manufacturing Company. (See Clough, Alfred N., assignor.)

Thring, Theodore, *et al.* (See Forse, Lyndall, assignor.)

Throop, William D., Norwich, Conn. Electric switch. No. 1,339,306; May 4; v. 274; p. 121.

Thurston, Thomas G. O., and A. Hiley, assignors, by mesne assignments, to Vickers Pontoons Limited, Westminster, London, England. Pontoon for raising sunken vessels. No. 1,341,289; May 25; v. 274; p. 702.

Tidd Recording Clock Company. (See Tidd, Walter J., assignor.)

Tidd, Walter J., assignor to Tidd Recording Clock Company, Springfield, Mass. Watchman's time-recorder. No. 1,340,578; May 18; v. 274; p. 495.

Tiffin, Vandevere, Tacoma, assignor to Combo Manufacturing Co., Seattle, Wash. Convertible furniture. No. 1,340,467; May 18; v. 274; p. 474.

Tillinghast, Wallace E., Auburn, R. I. Vacuum and return steam-trap. No. 1,339,074; May 4; v. 274; p. 79.

Tillman, Clarence W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Reel-mount. No. 1,339,238; May 4; v. 274; p. 109.

Tillman, Joseph, Sauk Center, Minn. Drag-lifter. No. 1,341,159; May 25; v. 274; p. 677.

Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,340,189; May 18; v. 274; p. 422.

Timm, William A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Liquid-distributing system. No. 1,341,447; May 25; v. 274; p. 733.

Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulators. No. 1,339,936; May 11; v. 274; p. 317.

Titan Co. A/S. (See Farup, Peder, assignor.)

Titeflex Metal Hose Corporation. (See Brinkman, Louis H., assignor.)

Tobacco Treating Co., The. (See Buensod, Alfred C., assignor.)

Tod, George H., and E. H. Beck, Toronto, Ontario, Canada. Spacing device. No. 1,338,800; May 4; v. 274; p. 28.

Todd, J. E., *et al.* (See Harp, William I.)

Todd Protectograph Company. (See Sampson, Charles H., assignor.)

Todd, R. B., *et al.* (See Harp, William I.)

Toelle, Walter H., Wallingford, Conn. Lock-housing for screws and bolts. No. 1,339,075; May 4; v. 274; p. 80.

Toland, Mary H., Chattanooga, Tenn. Float-operated circuit-closer. No. 1,339,239; May 4; v. 274; p. 109.

Toledo Scale Company. (See Dunn, Frank P., assignor.)

Toledo Scale Company. (See Hapgood, Clarence H., assignor.)

Tolfree, Edward R. (See Stern, Louis J., assignor.)

Toll, Herman H., assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Driving mechanism for power washing-machines. No. 1,339,587; May 11; v. 274; p. 250.

Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Combination washing-machine. No. 1,339,588; May 11; v. 274; p. 251.

Tolman, Scott H., Boston, Mass. Aeroplane or hydro-aeroplane construction. No. 1,341,399; May 25; v. 274; p. 724.

Toney, Jay, Omaha, Nebr. Door-lock. No. 1,338,713; May 4; v. 274; p. 12.

Tonkin, William R., Bisbee, Ariz. Vehicle-signal. No. 1,339,589; May 11; v. 274; p. 251.

Topping Manufacturing Company, The. (See Plice, Thomas V., assignor.)

Torrington Company, The. (See Graham, James H., assignor.)

Torwowski, Josa, South St. Paul, Minn. Railway-switch. No. 1,340,992; May 25; v. 274; p. 645.

Tost, Max, Detroit, Mich., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Impulse-starting mechanism and operating same. No. 1,338,758; May 4; v. 274; p. 20.

Tousey, Sinclair, New York, N. Y. Device for aiming firearms. No. 1,340,579; May 18; v. 274; p. 495.

Townsend, Arthur J. (See Kinnear, H. B., and Townsend.)

Townsend, William R. (See Davison, H., and Townsend.)

Tracy, Angie M., Ryan, Iowa. Flue-stopper. No. 1,340,090; May 11; v. 274; p. 345.

Tracy, Homer D., assignor to Barbour Flax Spinning Company, Paterson, N. J. Machine for forming tubular fabrics. No. 1,340,425; May 18; v. 274; p. 467.

Tracy, James J. (See Morse, Lawrence H., assignor.)

Tracy, James J., Cleveland, Ohio. Hat-making machine. No. 1,339,305; May 4; v. 274; p. 120.

Trane, Reuben N., La Crosse, Wis. Centrifugal pump. No. 1,340,091; May 11; v. 274; p. 345.

Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protective system. No. 1,341,486; May 25; v. 274; p. 741.

Travis, Clayton H., Polo, Ill. Fertilizer-distributer. No. 1,340,806; May 18; v. 274; p. 538.

Travis, Thurlow, Brooklyn, N. Y. Fur-screen. No. 1,339,240; May 4; v. 274; p. 109.

Treadwell, M. H., Company. (See Astrom, Carl P., assignor.)

Trego, Jennie C. (See Trego, Joseph P., Jr., assignor.)

Trego, Joseph P., administrator. (See Trego, Joseph P., Jr.)

Trego, Joseph P., Jr., deceased; J. P. Trego, administrator, assignor to J. C. Trego, Newton, Kans. Explosion-engine. No. 1,340,580; May 18; v. 274; p. 496.

Trembour, Max R., Watervliet, assignor, by mesne assignments, to Ludlum Electric Furnace Corporation, Albany, N. Y. Operating an electric furnace. No. 1,339,428; May 11; v. 274; p. 220.

Tremont Products Company. (See Smith, Raymond D., assignor.)

Trenton Potteries Company. (See Hinsdale, Winfield E., assignor.)

Tri-City Steel Company. (See Hyle, Jacob A., assignor.)

Tripoditis, Themios, Cleveland, Ohio. Dispensing apparatus. No. 1,339,635; May 11; v. 274; p. 260.

Tripp, Henry C., Auburn, N. Y. Duplex cleaner for windshields. No. 1,339,241; May 4; v. 274; p. 109.

Trotter, Joseph W., Birmingham, Ala. Manufacture of gasolene. No. 1,339,727; May 11; v. 274; p. 277.

Trotter, S. R. (See Rowe, J., assignor.)

Troy, Matthew O., Pittsfield, Mass., assignor to General Electric Company. Production of core lamination-sections. No. 1,339,990; May 11; v. 274; p. 327.

Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company, Inc. Turnstile. No. 1,339,076; May 4; v. 274; p. 80.

Truesdell, George L., Redwood Falls, Minn. Spark-plug. No. 1,339,429; May 11; v. 274; p. 220.

Trufant, Walter E., Whitman, Mass. Cranberry-separator. No. 1,339,077; May 4; v. 274; p. 80.

Trumbull Electric Manufacturing Company, The. (See Sutherland, Alexander R., assignor.)

Truscott, Herbert W., Omaha, Nebr. Tractor. No. 1,340,306; May 18; v. 274; p. 443.

Tucker, Edwin W., North Prairie, Wis. Wagon-brake. No. 1,340,743; May 18; v. 274; p. 526.

Tucker, Frank W., Lynn, assignor to F. A. Shea, Boston, Mass. Leather-working machine. No. 1,340,262; May 18; v. 274; p. 435.

Tucker, Theodore, *et al.* (See Seymour, Mark L., assignor.)

Tulloch, Thomas G., Westminster, London, England. Fluid-tight joints for steam-pipes and the like. No. 1,339,636; May 11; v. 274; p. 260.

Tuma, Martin. (See Tuma, Wensel, and M.)

Tuma, Wensel and M., New Prague, Minn. Tractor-governor. No. 1,340,993; May 25; v. 274; p. 645.

Turnbull, Charles W., and J. H. Fox, Albert Lea, Minn. Vapor-oil burner. No. 1,340,038; May 11; v. 274; p. 336.

Turner, Albert. (See Dunbar, H. W., Turner, and Smith.)

Turner, Albert. (See Norton, C. H., Turner, and Wilcox, Jr.)

Turner, Luther P., and J. R. Burrill, Spokane, Wash. Roadway. No. 1,338,801; May 4; v. 274; p. 28.

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic speed-control equipment. No. 1,339,677; May 11; v. 274; p. 268.

Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Combined vacuum and compressed-air brake. No. 1,339,678; May 11; v. 274; p. 268.

Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. No. 1,339,679; May 11; v. 274; p. 268.

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Remote-control brake equipment. No. 1,339,680; May 11; v. 274; p. 269.

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Co., Wilmerding, Pa. Electropneumatic brake. No. 1,339,681; May 11; v. 274; p. 269.

Turney, Eugene T., New York, N. Y., assignor of one-half to E. C. Wilcox, Meriden, Conn. Sound-box. No. 1,340,854; May 18; v. 274; p. 547.

Turnill, Thomas W. (See Downs, C., Bellwood, and Turnill.)

Turtle, Morton A., East Orange, N. J. Toy pistol. No. 1,340,190; May 18; v. 274; p. 422.

Tüscher, Adolf, Jr., Zurich, Switzerland. Pipe-wrench. No. 1,340,092; May 11; v. 274; p. 345.

Twarogowski, Alexander, Detroit, Mich. Heel. No. 1,341,088; May 25; v. 274; p. 663.

Tybout, Richard R., assignor to Guano & Raggio, Inc., Philadelphia, Pa. Dough-compressor. No. 1,339,637; May 11; v. 274; p. 260.

Tylee, Arthur K. (See McLauthlin, M. B., and Tylee.)

Tyrer, Thomas, deceased; P. H. Chambers and G. T. Feasey, executors, London, England. Production of cellulose acetate solutions. No. 1,339,728; May 11; v. 274; p. 277.

Tyrrell, Franklin E. (See Ranney, L., Dissette, and Tyrrell.)

U. S. Industrial Alcohol Company. (See Backhaus, Arthur A., assignor.)

U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)

U. S. Slicing Machine Company. (See Van Berkel, Cornelis, F. M., assignor.)

U. S. Tractor & Machinery Company. (See Harris, Grover D., assignor.) (Reissue.)

Udovich, Joseph, Duluth, Minn. Safety scaffolding-hanging apparatus. No. 1,340,191; May 18; v. 274; p. 422.

Ulm, John E., Barberton, Ohio. Sewer-block. No. 1,338,885; May 4; v. 274; p. 43.

Umholtz, Augustus, Port Carbon, Pa. Telephone-receiver. No. 1,340,807; May 18; v. 274; p. 538.

Underhill, Benjamin D., New Canaan, Conn., assignor to D. S. Plumb, Newark, N. J. Method or apparatus for producing pictures in colors. No. 1,340,923; May 25; v. 274; p. 631.

Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)

Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)

Underwood Computing Machine Company. (See Waldheim, John, assignor.)

Underwood Typewriter Company. (See Burridge, Lee S., assignor.)

Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)

Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)

Underwood Typewriter Company. (See Waldheim, John, assignor.)

Underwood Typewriter Company. (See Wernery, Lester A., assignor.)

Underwood Typewriter Company. (See Worden, Linas F., assignor.)

Uni-Form Company. (See Ambursen, Nils F., assignor.)

Union Carbide Company. (See Curme, Henry R., assignor.)

Union Railway Equipment Co., The. (See O'Connor, Arthur F., assignor.)

Union Special Machine Company. (See Loggie, William J., assignor.)

Union Special Machine Company. (See Moffatt, James R., assignor.)

Union Special Machine Company. (See Stengel, Joseph L., assignor.)

Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)

Union Tractor Company. (See Porter, J. W., and Arndt, assignors.)

United Electric Company, The. (See Beardsley, Charles S., assignor.)

United Engineering & Foundry Company. (See Biggert, Florence C., Jr., assignor.)

United Lead Company. (See Worrall, George H., assignor.)

United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)

United Shoe Machinery Corporation. (See Bliss, Charles A., assignor.)

United Shoe Machinery Corporation. (See Enslin, Herbert E., assignor.)

United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)

United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)

United Shoe Machinery Corporation. (See Howard, Charles B., assignor.)

United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)

United Shoe Machinery Corporation. (See Latham, Albert, assignor.)

United Shoe Machinery Corporation. (See Lee, Bernard S., assignor.)

United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)

United Shoe Machinery Corporation. (See Meyer, William C., assignor.)

United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)

United Shoe Machinery Corporation. (See Thayer, Joseph E., assignor.)

United States Convertible Car Co. (See Wyatt, Everett, assignor.)

United Wire and Supply Company. (See McIntyre, Patrick J., assignor.)

Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)

Universal Winding Company. (See Parks, Edward F., assignor.)

Universal Safety Tread Company. (See Oliver, Charles E., assignor.)

Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Kite-balloon. No. 1,341,248; May 25; v. 274; p. 694.

Urbieta, José M., Del Rio, Tex. Car-axle lubricator. No. 1,340,808; May 18; v. 274; p. 538.

Usborne, Cecil V., Westminster, London, England. Towing device for use with ships. No. 1,340,924; May 25; v. 274; p. 631.

Ustrzycki, Stanislaw, and J. Bukola, Chicago, Ill. Plunger. No. 1,340,126; May 11; v. 274; p. 353.

Utes, William C., *et al.* (See Maltz, Meyer, assignor.)

Utica Valve and Fixture Company. (See Harris, George H., assignor.)

Utz, John G., assignor to The Standard Parts Company, Cleveland, Ohio. Bearing. No. 1,339,991; May 11; v. 274; p. 327.

Valenta, Charles, Chicago, Ill. Carpet-stitching device. No. 1,339,307; May 4; v. 274; p. 121.

Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Alloy. No. 1,339,009; May 4; v. 274; p. 66.

Van Berkel, Cornelis F. M., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,339,590; May 11; v. 274; p. 251.

Van Brunt Manufacturing Company, The. (See Van Brunt, Willard A., assignor.)

Van Brunt, Willard A., Los Angeles, Calif., assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Spring-pressure-regulating device. No. 1,340,581; May 18; v. 274; p. 496.

Van Camp, John, Long Beach, assignor of one-half to J. E. Owen, Venice, Calif. Amusement device. No. 1,339,871; May 11; v. 274; p. 304.

Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Machine for making thermophone-blanks. No. 1,338,886; May 4; v. 274; p. 43.

Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Machine for finishing thermophones. No. 1,338,887; May 4; v. 274; p. 44.

Van Doorn, Anthonius M., Newton, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Making thermophones. No. 1,338,888; May 4; v. 274; p. 44.

Van Doren, C. L., Inc. (See Oathout, Arthur N., assignor.)

Van Iderstine, Raymond, Newark, N. J. Display-carton. No. 1,340,744; May 18; v. 274; p. 526.

Van Meter, Richard F., Minneapolis, Minn. Spark-gap device. No. 1,341,348; May 25; v. 274; p. 714.

Van Norman, Charles E., Springfield, Mass. Tool-carrying spindle. No. 1,339,308; May 4; v. 274; p. 121.

Van Riper, Richard T. (See Thompson, William H., assignor.)

Vanderkleed, Charles E., Collingswood, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making manganates. No. 1,339,242; May 4; v. 274; p. 109.

Varoga, John, Pittsburgh, Pa. Lock-nut. No. 1,341,400; May 25; v. 274; p. 724.

Vaughan, David, Youngstown, Ohio. Overhead-valve lifter. No. 1,340,192; May 18; v. 274; p. 422.

Vaughan, George W., Mount Vernon, N. Y. Frog foot-guard. No. 1,340,582; May 18; v. 274; p. 496.

Vaught, James C. H., New York, N. Y. Power-drill. No. 1,340,468; May 18; v. 274; p. 474.

Veara, Albert L., Bridgeport, Conn. Permutation-lock. No. 1,340,583; May 18; v. 274; p. 496.

Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed-water-regulator system. No. 1,340,846; May 18; v. 274; p. 545.

Velchansky, John A., and S. Stefaniak, Hamtramck, Mich. Pick. No. 1,339,638; May 11; v. 274; p. 260.

Verhoogen, Gustave, Brussels, Belgium. Manufacture of hard toe-blocks and the like for footwear. No. 1,339,529; May 11; v. 274; p. 239.

Véricel, Antoine, assignor to Les Fleurs de Cristal, Inc., New York, N. Y. Perfume-vial. No. 1,341,525; May 25; v. 274; p. 748.

Vernon, Percy V., Coventry, England. Lathe or like machine. No. 1,339,836; May 11; v. 274; p. 298.

Vernon, Percy, V., Keresley, England. Bed for machine-tools. No. 1,339,837; May 11; v. 274; p. 298.

Vertunni, Joseph, and O. S. Eller, Long Beach, Calif. Shoe-button remover. No. 1,341,203; May 25; v. 274; p. 686.

Vesely, Karel, Tynice, near Sazavou, Czechoslovakia. Sewing-machine. No. 1,339,243; May 4; v. 274; p. 109.

Vetter, Joseph, Toledo, Ohio. Bow for automobile-tops. No. 1,340,307; May 18; v. 274; p. 443.

Vibro-Dental Products. (See Jones, William L., assignor.)

Vick, Martin L., Cheyenne, N. D. Rural mail-box support or holder. No. 1,340,426; May 18; v. 274; p. 467.

Vickers Limited. (See Barker, F. H., and Buckham, assignors.)

Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)

Vickers Limited. (See Ingoldby, Maurice K., assignor.)

Vickers, Limited. (See McKechnie, James, assignor.)

Vickers Limited. (See North, Thomas K., assignor.)

Vickers Ponfoons Limited. (See Thurston, T. G. O., and Tilley, assignors.)

Victor Electric Corporation. (See Wantz, Julius B., assignor.)

Victor Talking Machine Company. (See Squibb, Lloyd Y., assignor.)

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Clutch. No. 1,339,047; May 4; v. 274; p. 74.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,339,530; May 11; v. 274; p. 239.

Vinograd, Eliezer, and M. Groten, New York, N. Y. Car-coupling. No. 1,339,487; May 11; v. 274; p. 231.

Vodoz, Frederick W., Chicago, Ill., assignor to Johnson Automobile Lock Company, Adjustable steering-wheel and lock. No. 1,340,638; May 18; v. 274; p. 507.

Voight, Frederick E., Grand Haven, Mich. Device for gaging tapering bodies. No. 1,339,639; May 11; v. 274; p. 261.

Volk, Edward J., Cleveland, Ohio. Gas-burner. No. 1,341,089; May 25; v. 274; p. 664.

Vom Eigen, Bonno, Newark, N. J., assignor to August Goertz & Co. Bag-frame and hinge connection therefor. No. 1,339,799; May 11; v. 274; p. 291.

Von Henke, Edmond J., Milwaukee, Wis., assignor to Thomson Electric Welding Company, Lynn, Mass. Weld-testing device for chains. No. 1,339,610; May 11; v. 274; p. 255.

Vonnegut, Anton. (See Gathman, M. B., and Eaglesfield, assignors.)

Voss, Theodore A., Phoenicia, N. Y. Broom. No. 1,341,526; May 25; v. 274; p. 748.

Vreeland, Frederick K., Montclair, N. J. Electrical oscillator. No. 1,340,193; May 18; v. 274; p. 423.

Vyne, Garrett O., *et al.* (See Vyne, Ray N., assignor.)

Vyne, Ray N., assignor of one-third to R. N. Vyne, one-third to G. O. Vyne, and one-third to H. J. Smith, Prescott, Ariz. Equipment for moving-picture machines. No. 1,341,527; May 25; v. 274; p. 748.

Waechter, Ferdinand F., Philadelphia, Pa. Making puddle-balls and furnaces therefor. No. 1,340,690; May 18; v. 274; p. 517.

Wagenfohr, Carl. (See Taussig, G., and Wagenfohr.)

Wagner, Frank J., Yonkers, N. Y. Machine for cleaning truck-wheels and the like. No. 1,338,714; May 4; v. 274; p. 12.

Wais, Charles C., Cincinnati, Ohio. Ball and making same. No. 1,339,992; May 11; v. 274; p. 327.

Waite, Lorenzo E., Toledo, Ohio. Feeding mechanism for machine-tools. No. 1,340,584; May 18; v. 274; p. 497.

Waite, Lorenzo E., Toledo, Ohio. Spindle-driving mechanism for machine-tools. No. 1,340,585; May 18; v. 274; p. 497.

Waite, Lorenzo E., Toledo, Ohio. Quick-traverse mechanism for feeds for machine-tools. No. 1,340,586; May 18; v. 274; p. 497.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,339,078; May 4; v. 274; p. 80.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,339,993; May 11; v. 274; p. 327.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,469; May 18; v. 274; p. 474.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,864; May 18; v. 274; p. 548.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,340,925; May 25; v. 274; p. 631.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,341,028; May 25; v. 274; p. 652.

Waudref, Grant, St. Paul, Minn. Hydraulic unloader. No. 1,339,079; May 4; v. 274; p. 80.

Wales Adding Machine Company. (See Birth, Charles, assignor.)

Walker, Albert D. C. (See Johnson, H., and Walker.)

Walker, Matthew A., South Connellsville, Pa. Shell for machine-guns. No. 1,338,802; May 4; v. 274; p. 29.

Walker, Reginald E., Tyseley, Birmingham, England. Spring-frame for motorcycles. No. 1,340,508; May 18; v. 274; p. 482.

Walkup, Vincent A., Apache, Okla. Resilient wheel. No. 1,339,800; May 11; v. 274; p. 291.

Wallace, Frederick L. (See Johnston, W. A., Browne, and Wallace.)

Wallen, Earl S., Lansford, assignor, by mesne assignments, to Coxe Traveling Grate Company, Hazleton, Pa. Mechanical stoker. No. 1,339,531; May 11; v. 274; p. 240.

Walling, William F., Los Angeles, Calif. Means for producing imitative-tile flooring and the like. No. 1,341,528; May 25; v. 274; p. 748.

Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Printing-press impression-cylinder. No. 1,340,194; May 18; v. 274; p. 423.

Walsh, Joseph P., Vancouver, British Columbia, Canada. Wood-refuse burner. No. 1,339,729; May 11; v. 274; p. 278.

Walters, Charles, Jr., Wessington Springs, S. D. Steering device. No. 1,339,048; May 4; v. 274; p. 74.
Waltham Watch Company. (See Ohlson, Olof, assignor.)
Walther, Paul. (See Holzapfel, A. C., and Walther.)
Walton, William L., Bantry, N. D. Wheel-lift. No. 1,340,587; May 18; v. 274; p. 497.
Waltz, Claud M., Summitville, Ind. Belt. No. 1,339,309; May 4; v. 274; p. 121.
Wambaugh, Mahlon W., St. Louis, Mo. Railway-tie. No. 1,341,090; May 25; v. 274; p. 664.
Wanamaker, John. (See Rehfuss, Martin O., assignor.)
Wantz, Julius B., assignor, by mesne assignments, to Victor Electric Corporation, Chicago, Ill. Electrical apparatus. No. 1,340,588; May 18; v. 274; p. 497.
Ward, Charles A., Mount Vernon, N. Y. Steering-gear. No. 1,341,349; May 25; v. 274; p. 714.
Warme, Ivar F., and R. A. Blood, assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Packer for filled-can-closing machines. No. 1,341,487; May 25, v. 274; p. 741.
Warner Gear Company. (See White, Samuel O., assignor.)
Warner, William L. (See Reichel, L. J., and Warner.)
Warshauer, Alexander, Cambridge, Mass. Blotting attachment for check-books, &c. No. 1,339,937; May 11; v. 274; p. 317.
Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
Warren & Irrgang Company, The. (See Irrgang, William F., assignor.)
Washburne, William H., assignor to Self Seating Valve Company, Chicago, Ill. Valve. No. 1,338,759; May 4; v. 274; p. 21.
Washington Machinery and Supply Company, *et al.* (See Seymour, Mark L., assignor.)
Watanabe, Konosuke, Edmonton, Alberta, Canada. Lamp-adjuster. No. 1,340,195; May 18; v. 274; p. 423.
Waterhouse, Harold D., Hartford, Conn. Primer for internal-combustion engines. No. 1,339,080; May 4; v. 274; p. 80.
Waters, Henry, Bisbee, Ariz. Shoe-stretcher. No. 1,340,994; May 25; v. 274; p. 645.
Watson, Chauncey R., *et al.* (See Hachmann, Frederick, assignor.)
Watson, Henry, Newport, Wales. Device for sharpening or honing ordinary or safety razors, blades, or other light cutting-tools. No. 1,340,509; May 18; v. 274; p. 482.
Watson, William, Portland, Oreg. Bucket-plow. No. 1,339,371; May 4; v. 274; p. 133.
Watson, William F., assignor of one-half to F. W. Hout, Olean, N. Y. Hose-supporter. No. 1,340,745; May 18; v. 274; p. 527.
Watts, Robert M., Rock Island, Ill. Buoyant belt. No. 1,341,529; May 25; v. 274; p. 749.
Way, John H., Philadelphia, Pa. Pneumatic riveting-hammer. No. 1,340,196; May 18; v. 274; p. 423.
Weagant, Roy A., Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for radiosignaling. No. 1,338,889; May 4; v. 274; p. 44.
Webster, Harry S., Van Wert, Ohio. Cleaning attachment for whisk-brooms. No. 1,341,091; May 25; v. 274; p. 664.
Webster, William, Victoria, British Columbia, Canada. Swimming apparatus. No. 1,340,745; May 25; v. 274; p. 702.
Wedmore, Edmund B., Hendon, England, assignor to General Electric Company. Protective device. No. 1,341,488; May 25; v. 274; p. 741.
Wedwick, Jacob. (See Nelson, H., and Wedwick.)
Wegener, Frank C. (See Sauer, V. O., and Wegener.)
Wehr, Austin A., Baden, Pa. Art of and apparatus for cooling and condensing gasolene or light vapors. No. 1,340,427; May 18; v. 274; p. 467.
Weimer, Rudolph. (See Wiester, Stefan, assignor.)
Weinacker, Hermann, assignor, by mesne assignments, to General Chain Company, Providence, R. I. Chain-making machine. No. 1,340,639; May 18; v. 274; p. 507.
Weintz, Jacob, assignor to The Strong, Carlisle and Hammond Company, Cleveland, Ohio. Annealing and heat-treating furnace. No. 1,339,081; May 4; v. 274; p. 81.
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Triple-seam-sewing machine. No. 1,341,448; May 25; v. 274; p. 733.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,142; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,143; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,144; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,145; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,146; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,147; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,148; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,149; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Colored smoke. No. 1,339,150; May 4; v. 274; p. 93.
Weisgerber, Edwin C., U. S. Army. Refillable fuse. No. 1,341,401; May 25; v. 274; p. 724.
Weisman, Ralph. (See Weissman, S., and Weisman.)
Weiss, George W., New York, N. Y. Machine for making waistbands. No. 1,341,092; May 25; v. 274; p. 664.
Weiss, Howard F., Madison, Wis., assignor to C. F. Burgess Laboratories. Fireproofing wood. No. 1,339,488; May 11; v. 274; p. 232.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Recovery of organic products from wood. No. 1,339,489; May 11; v. 274; p. 232.
Weiss, John M., New York, N. Y., assignor to The Barrett Company. Composition of matter containing bituminous material. No. 1,340,855; May 18; v. 274; p. 547.
Weissman, Samuel, and R. Weisman, Detroit, Mich. Bed-spring. No. 1,340,510; May 18; v. 274; p. 482.
Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
Weitz, Charles, New York, N. Y. Stylographic fountain-pen. No. 1,340,926; May 25; v. 274; p. 631.
Welch, Herman L., El Centro, Calif. Pistol. No. 1,340,127; May 11; v. 274; p. 353.
Welch, Horace H., Chicago, Ill. Electric recorder. No. 1,338,715; May 4; v. 274; p. 12.
Welch, Lon L., assignor to Hampton Electric and Machine Company, San Francisco, Calif. Billet-turner. No. 1,340,640; May 18; v. 274; p. 507.
Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Bottle-cap lifter. No. 1,338,847; May 4; v. 274; p. 37.
Welin, Axel, London, England, assignor to American Balsa Company, Inc. Mechanism for turning ships' davits. No. 1,339,532; May 11; v. 274; p. 240.
Wells, Ezra T., Chicago, Ill. Water-heater. No. 1,338,760; May 4; v. 274; p. 21.
Wells, Loren S., New York, N. Y. System for recording electrical phenomena. No. 1,340,197; May 18; v. 274; p. 423.
Wendelken, Charles, Tivoli, Tex. Bank-check writer. No. 1,340,428; May 18; v. 274; p. 467.
Wendelken, Charles, Robstown, Tex. Check-writer. No. 1,340,429; May 18; v. 274; p. 468.
Werner, Alfred E., Philadelphia, Pa. Toy aeroplane. No. 1,341,624; May 25; v. 274; p. 766.
Werner, Carl, Omaha, Nebr. Plumbing device. No. 1,340,995; May 25; v. 274; p. 645.
Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Stencil-machine. No. 1,341,402; May 25; v. 274; p. 724.
Wessel, Carl. (See Still, C., and Wessel.)
Wester, Theodore C., Baltimore, Md. Can-sealing composition. No. 1,341,489; May 25; v. 274; p. 742.
Wester, Theodore C., Baltimore, Md. Sealing composition. No. 1,341,490; May 25; v. 724; p. 742.
Western Electric Company. (See Albright, Henry F., assignor.)
Western Electric Company. (See Booth, William T., assignor.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Conway, Roy D., assignor.)
Western Electric Company. (See Dixon, A. F., and Reeves, assignors.)
Western Electric Company. (See Dunham, Bert G., assignor.)
Western Electric Company. (See Edwards, George D., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Hazard, Allen B., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Herrmann, Raymond R., assignor.)
Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See Miller, Daniel D., assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Reynolds, J. N., and Hearn, assignors.)
Western Electric Company. (See Reynolds, J. N., and Stearn, assignors.)
Western Electric Co. (See Smith, Virgil L., assignor.)
Western Electric Company. (See Timm, William A., assignor.)
Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
Western Electric Company. (See Wright, Joseph L., assignor.)
Western Manufacturing Co. (See McMullin, Joseph B., assignor.)
Western Tire & Rubber Works. (See Brooks, Roscoe A, assignor.) (Reissue.)
Western Vulcanizer Manufacturing Company. (See Wheelock, Herbert K., assignor.)
Westhafer, James S., Braman, Okla. Toothbrush. No. 1,340,093; May 11; v. 274; p. 346.

Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
Westinghouse Electric and Manufacturing Company. (See Clarke, John A., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Deutsch, Isidor, assignor.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Helmund, Rudolf E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kenney, James R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lewis, Harry A.)
Westinghouse Electric and Manufacturing Company. (See MacGahan, Paul, assignor.)
Westinghouse Electric and Manufacturing Company. (See Meyer, Friedrich W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Pukerud, Thomas S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Woodward, Walter R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Yardley, John L. M., assignor.)
Westinghouse Lamp Company. (See Dennington, Arthur R., assignor.)
Westgard, Anton, Tacoma, Wash. Saw-tooth. No. 1,340,128; May 11; v. 274; p. 353.
Westling, Herman, Hudson, Mass. Overshoe. No. 1,339,994; May 11; v. 274; p. 327.
Wetherill, Roy, Kansas City, Mo. Signal device for automobiles. No. 1,339,938; May 11; v. 274; p. 317.
Wetmore, Charles P., assignor, by mesne assignments, to Koehring Machine Company, Milwaukee, Wis. Timing mechanism for intermittently-fed machines. No. 1,338,761; May 4; v. 274; p. 21.
Wetzstein, Bruno, Neuhausen, Switzerland. Stopping mechanism for fabric-frame-moving mechanism. No. 1,339,049; May 4; v. 274; p. 74.
Whall, Richard A., Athol, Mass. Outer garment. No. 1,340,351; May 18; v. 274; p. 452.
Wheary, George H., Racine, Wis. Trunk-wardrobe-section protector. No. 1,339,533; May 11; v. 274; p. 240.
Wheary, George H., Racine, Wis. Combined trunk-collar and track. No. 1,339,534; May 11; v. 274; p. 240.
Wheeler, Joseph C. (See Pace, Carl D., assignor.)
Wheeler, Robert S., Grenloch, N. J. Cotton-gin. No. 1,340,691; May 18; v. 274; p. 517.
Wheelock, Herbert K., Los Angeles, Calif., assignor, by mesne assignments, to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,340,641; May 18; v. 274; p. 507.
Wheelock, Herbert K., Chicago, Ill., assignor to Western Vulcanizer Manufacturing Company. Vulcanizer. No. 1,340,642; May 18; v. 274; p. 508.
Whistler, George F. (See Bolger, Robert S., assignor.)
Whitall Tatum Company. (See Rothwell R., and Cuttrell, assignors.)
White, Frank O., Belleville, Ill. Ventilated upholstered furniture. No. 1,339,611; May 11; v. 274; p. 255.
White, Frederick H., Chicago, Ill. Photoprinting-machine. No. 1,340,511; May 18; v. 274; p. 482.
White, Frederick M., and H. E. Rieger, San Diego, Calif. Apparatus for covering submerged piles with concrete. No. 1,339,535; May 11; v. 274; p. 240.
White, James B., Fort Wayne, Ind. Egg-case. No. 1,339,430; May 11; v. 274; p. 220.
White, John C. (See Wilkinson, John B., assignor.)
White, John W., assignor of one-half to W. D. Rose, Lewistown, Mont. Sectional wheel-rim. No. 1,340,094; May 11; v. 274; p. 346.
White Motor Company, The. (See Farmer, Frank H., assignor.)
White, Richard T., Chicago, Ill. Liquid-evaporator. No. 1,338,848; May 4; v. 274; p. 37.
White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Clutch. No. 1,339,801; May 11; v. 274; p. 291.
White, S. S., Dental Manufacturing Company, The. (See Johnston, W. A., Browne, and Wallace, assignors.)
White, William M., and A. Gauslin, Trona, Calif. Leaf-spring oiler. No. 1,339,872; May 11; v. 274; p. 305.
Whitehead, Paul, San Diego, Calif. Means and method of catching fish. No. 1,340,677; May 18; v. 274; p. 514.
Whitener, James T., assignor, by mesne assignments, of one-half to W. L. Whitener, Tishomingo, Miss. Millstone-sharpening pick. No. 1,340,589; May 18; v. 274; p. 498.
Whitener, William L. (See Whitener, James T., assignor.)
Whitestone, Godtfred. (See Nicholson, G. F., and Whitestone.)
Whitman, Raymond L., Hamilton, Mass. Golf-hole renovator. No. 1,340,927; May 25; v. 274; p. 632.
Whitmore, Fremont F., Seattle, Wash. Bolting-up device. No. 1,340,470; May 18; v. 274; p. 475.
Whitmore, William F., West Hartford, Conn. Water-hydrant. No. 1,340,352; May 18; v. 274; p. 452.
Whitney, Baxter D., & Son, Inc. (See Farnum, William C., assignor.)
Whiton, Lucius E., New London, Conn. Protection of ships against torpedo attack. No. 1,339,372; May 4; v. 274; p. 133.
Whittaker, John A. (See Massoll, Curtis A., assignor.)
Whitted, John L., Long Island, Kans. Clothespin. No. 1,340,095; May 11; v. 274; p. 346.
Whitten, Stahl A. (See Ballman, Edwin C., assignor.)
Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Regulator for electric motors. No. 1,340,678; May 18; v. 274; p. 514.
Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company of Baltimore, Baltimore, Md. Regulator for electric motors. No. 1,340,679; May 18; v. 274; p. 515.
Whittmann, Frank. (See Gay, George L., assignor.)
Widegren, Emil H. (See Widegren, Klas A. and E. H.)
Widegren, Klas A. and E. H., Herserud, Sweden. Conveying truck. No. 1,341,249; May 25; v. 274; p. 694.
Widell, Magnus E., Maywood, Ill., assignor to American Can Company, New York, N. Y. Soldering-machine. No. 1,338,716; May 4; v. 274; p. 13.
Wiester, Stefan, Beaver Dam, assignor of one-half to Rudolph Weimer, Sheboygan, Wis. Cooling enamel. No. 1,340,353; May 18; v. 274; p. 452.
Wilber, William H., Buffalo, N. Y. Water-power apparatus. No. 1,338,890; May 4; v. 274; p. 44.
Wilcke, Paul F. C. (See Blume, R. A., and Wilcke.)
Wilcox, Ernest C. (See Turney, Eugene T., assignor.)
Wilcox, Frank S., Union, S. C. Apparatus for treating knitted webs. No. 1,340,809; May 18; v. 274; p. 538.
Wilcox, Frederick A., and L. McGregory, Spokane, Wash. Coffee-roasting machine. No. 1,340,692; May 18; v. 275; p. 517.
Wilcox, Joseph S., Jr. (See Norton, C. H., Turner, and Wilcox, Jr.)
Wilcox, William H. (See Ingham, C. H., and Wilcox.)
Wild, Morton, New York, N. Y. Toy. No. 1,340,512; May 18; v. 274; p. 483.
Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)
Wilhelmy, Walter, Sr., Pueblo, Colo. Making non-intoxicating beverages. No. 1,338,803; May 4; v. 274; p. 29.
Wilkerson, Claud J. (See Burton, William H., and Wilkerson.)
Wilkins, John W., Battle Creek, Mich. Automobile-tool. No. 1,339,612; May 11; v. 274; p. 255.
Wilkinson, Arthur W., assignor to Sterling Products Company, Inc., Easton, Pa. Container. No. 1,341,403; May 25; v. 274; p. 724.
Wilkinson, Harris C., Los Angeles, Calif. Branding-machine. No. 1,341,449; May 25; v. 274; p. 733.
Wilkinson, John B., Milwaukee, assignor of one-half to J. C. White, Madison, Wis. Differential gage. No. 1,340,198; May 18; v. 274; p. 423.
Willcox, Frank A., Dartford, England. Safety device for use in connection with refrigerating-machines. No. 1,339,244; May 4; v. 274; p. 110.
Willems, Henry J., Kenosha, Wis. Spring fabric. No. 1,339,802; May 11; v. 274; p. 291.
Willey, Josiah F., Wichita, Kans. Jack. No. 1,339,613; May 11; v. 274; p. 256.
Williams, Earl B., Los Angeles, Calif. Audible theft-alarm signal for automobiles. No. 1,339,873; May 11; v. 274; p. 305.
Williams, Enoch L., Marshalltown, Iowa. Milling-machine. No. 1,339,490; May 11; v. 274; p. 232.
Williams, Frank A., Detroit, Mich. Gun-sight. No. 1,340,996; May 25; v. 274; p. 646.
Williams, George A., Watertown, Conn. Metal-can nozzle and closure therefor. No. 1,339,245; May 4; v. 274; p. 110.
Williams, George T., Oakland, Calif. Combustion-engine of the rotary type. No. 1,339,730; May 11; v. 274; p. 278.
Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Cooling apparatus for lard-dispensing machines. No. 1,341,605; May 25; v. 274; p. 763.
Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Lard-dispensing machine. No. 1,340,590; May 18; v. 274; p. 498.
Williams, Hartwell L., Beaumont, Tex. Mud-cleaning mechanism for tractor-wheels. No. 1,341,093; May 25; v. 274; p. 664.
Williams, James W., Spokane, Wash. Automobile identification-tag. No. 1,340,998; May 25; v. 274; p. 646.
Williams, John, Liverpool, England. Dental plate or denture. No. 1,339,640; May 11; v. 274; p. 261.
Williams, Joseph S., Philadelphia, Pa. Demountable-wheel equipment. No. 1,340,199; May 18; v. 274; p. 424.
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Cage construction for mills. No. 1,340,643; May 18; v. 274; p. 508.
Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)
Williams Patent Crusher and Pulverizer Co. (See Plaisted, Harold M., assignor.) (Reissue.)
Williams, Percy N., Pelham Manor, N. Y. Odontometer. No. 1,340,354; May 18; v. 274; p. 453.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,340,997; May 25; v. 274; p. 646.
Williams, U. S. (See Speer, John G., assignor.)
Williams, Warren S., assignor to H. C. Fry Glass Company, Rochester, Pa. Making earthenware articles. No. 1,340,308; May 18; v. 274; p. 444.
Williams, William, Gilwern, Wales. Apparatus for manipulating ingots, bars, and the like in rolling-mills. No. 1,340,129; May 11; v. 274; p. 354.
Williams, Winfield, San Jose, Calif. Revolving teeter-board. No. 1,339,536; May 11; v. 274; p. 241.
Williamson, Marshall I., Baltimore, Md. Vibratory-diaphragm controller. No. 1,340,471; May 18; v. 274; p. 475.
Willis, Joseph H., assignor of one-half to J. A. Greene, Mahan, W. Va. Pole-setting device. No. 1,339,082; May 4; v. 274; p. 81.
Willmore, Amy D., Maywood, British Columbia, Canada. Vehicle attachment. No. 1,339,246; May 4; v. 274; p. 110.
Wilis, James B. (See Culver, L. O., and Wilis.)
Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,339,731; May 11; v. 274; p. 278.
Wilson, T. A., & Co., Inc. (See Willson, Frederick, assignor.)
Wilmarth & Morman Company. (See Gorham, Edwin T., assignor.)
Wilmot, George, Linwood, Mass. Record-form. No. 1,339,995; May 11; v. 274; p. 328.
Wilson, C. R. (See Myers, W. S., and Smith, assignors.)
Wilson, David H., Ridgewood Park, and R. G. Hutton, Wortendyke, N. J. Reinforced welded joint. No. 1,340,644; May 18; v. 274; p. 508.
Wilson, Ernest L., Preston, assignor of one-half to H. G. Wilson, London, England. Curtain-fitting. No. 1,339,247; May 4; v. 274; p. 110.
Wilson, Harold G. (See Wilson, Ernest L., assignor.)
Wilson, Harold G., Titusville, Fla. Ice-cream-cone dispenser. No. 1,341,606; May 25; v. 274; p. 763.
Wilson, Louie G., Morning Sun, Iowa. Float-valve. No. 1,340,999; May 25; v. 274; p. 646.
Wilson, William R, Terre Haute, Ind. Rolling-disk-colter hub. No. 1,340,693; May 18; v. 274; p. 517.
Wilson, Wylie G., New York, N. Y. Coin-controlled vending machine. No. 1,340,174; May 18; v. 274; p. 419.
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Light for vehicle-curtains. No. 1,339,838; May 11; v. 274; p. 298.
Winchester Repeating Arms Co. (See Hemmingway, Horace B., assignor.)
Winchester Repeating Arms Co. (See Tillman, Clarence W., assignor.)
Winder, Charles B., Columbus, Ohio. Firearm-sight. No. 1,339,248; May 4; v. 274; p. 110.
Windisch, George W., assignor to W. C. Windisch Company, Detroit, Mich. Temporary binder. No. 1,339,249; May 4; v. 274; p. 110.
Windisch, William C., Company. (See Windisch, George W., assignor.)
Windle, Randolph T., New York, N. Y. Pump. No. 1,340,130; May 11; v. 274; p. 354.
Wingen, Jean, Maastricht, Netherlands. Paint and making same. No. 1,341,250; May 25; v. 274; p. 694.
Winget, Jasper S., York, Pa. Child's folding combined bed and coop. No. 1,340,694; May 18; v. 274; p. 517.
Winkler, Albert. (See Demarmels, P., and Winkler.)
Winn, Celestia M., Watonga, Okla. Bed. No. 1,339,250; May 4; v. 274; p. 111.
Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulating system. No. 1,339,996; May 11; v. 274; p. 328.
Winter, Henry B., Punxsutawney, Pa. Wrench. No. 1,341,094; May 25; v. 274; p. 665.
Winters, John H., Adams, Tenn. Hog-feeder. No. 1,340,096; May 11; v. 274; p. 346.
Winther Motor Truck Company. (See Downing, Virgil L., assignor.)
Winton, Alexander, Lakewood, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio. Cam-shaft structure and oiling mechanism for internal-combustion motors. No. 1,339,839; May 11; v. 274; p. 298.
Winton Gas Engine & Manufacturing Company, The. (See Winton, Alexander, assignor.)
Wirebounds Patents Company. (See Lavenberg, Perry C., assignor.)
Wirt, Charles, Philadelphia, Pa. Making electrical resistance units. No. 1,338,717; May 4; v. 274; p. 13.
Wirth, Ernst, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing resinous bases from tar. No. 1,339,310; May 4; v. 274; p. 121.
Wischhusen, Frederick B., Houston, Tex. Stamping-machine. No. 1,339,050; May 4; v. 274; p. 75.
Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.)
Wise, Charles H., Winnetka, Ill. Window-shade spring adjuster. No. 1,341,530; May 25; v. 274; p. 749.
Wisegarver, Marion O., Umbarger, Tex. Milk-can cover. No. 1,340,097; May 11; v. 274; p. 347.
Wiseloge1, James J., Detroit, assignor to National Spring & Wire Company, Albion, Mich. Cushion-seat. No. 1,339,537; May 11; v. 274; p. 241.
Wisniewska, Emilia, Washington, Pa. Shopping-bag. No. 1,341,404; May 25; v. 274; p. 724.
Wittemann, Charles R., Richmond, N. Y. Aeroplane. No. 1,341,029; May 25; v. 274; p. 652.
Witter, Ezra E., assignor of one-third to J. Post, Zion City, Ill. Hinge. No. 1,340,866; May 18; v. 274; p. 549.
Wittstein, Herman L., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Gate-valve. No. 1,340,591; May 18; v. 274; p. 498.
Wocel, Frank E., New York, N. Y. Sanitary milk-bottle holder. No. 1,341,607; May 25; v. 274; p. 763.
Woerz, Henry C., New York, N. Y. Air-navigating vessel. No. 1,340,309; May 18; v. 274; p. 444.
Woken, Elfon P., Northwood, N. D. Flash-absorber for machine-guns. No. 1,339,614; May 11; v. 274; p. 256.
Wolcott, Darwin S., trustee. (See Peebles, Thomas A., assignor.)
Wolff, George, Paterson, N. J. Antifriction-bearing. No. 1,340,310; May 18; v. 274; p. 444.
Wollenhaupt, Justin J. (See Doyle, W. J., and Wollenhaupt.)
Wolny, Joseph, Carneyville, Wyo. Beet-machine. No. 1,339,874; May 11; v. 274; p. 305.
Woock, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Deep-well pump. No. 1,340,472; May 18; v. 274; p. 475.
Woock, Walter R. (See Woock, Herbert J. and W. R.)
Wood, Albert B., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to G. G. Earl, New Orleans, La. Fluid-measuring device. No. 1,339,909; May 11; v. 274; p. 311.
Wood, Albert B., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to G. G. Earl, New Orleans, La. Fluid-measuring device. No. 1,339,997; May 11; v. 274; p. 328.
Wood, Arch K., assignor to McKee Glass Company, Jeannette, Pa. Liquid-dispenser. No. 1,341,095; May 25; v. 274; p. 665.
Wood, Frank M., Chicago, Ill. Preparation of liquid cultures of nitrifying bacteria. No. 1,341,030; May 25; v. 274; p. 652.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Safety device for printing-presses. No. 1,340,355; May 18; v. 274; p. 453.
Wood, Henry A. W., by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for casting, finishing, and cooling stereotype printing-plates. No. 1,341,608; May 25; v. 274; p. 763.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood-Smith, George F., assignor, by mesne assignments, to Standard Tank Car Company, St. Louis, Mo. Outlet-valve mechanism for tank-cars. No. 1,339,083; May 4; v. 274; p. 81.
Woodard, John H., Spokane, Wash. Air-drying apparatus. No. 1,341,405; May 25; v. 274; p. 725.
Woodbury, Leonard P., Berkeley, Calif., assignor to Parker Collapsible Rim Corporation, Chicago, Ill. Demountable rim. No. 1,341,000; May 25; v. 274; p. 646.
Woodhouse, Albert E., Westminster, London, England. Clutch. No. 1,338,891; May 4; v. 274; p. 44.
Woodjard, Guy L. (See Brown, William H., assignor.)
Woodjard, Guy L., San Diego, Calif. Spring-oiler. No. 1,339,538; May 11; v. 274; p. 241.
Woodward, Walter R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulating system. No. 1,338,718; May 4; v. 274; p. 13.
Woodworth, Donald C., Auburn, Me. Antiskid-chain tool. No. 1,338,804; May 4; v. 274; p. 29.
Worden, Linas F., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter-escapement. No. 1,341,350; May 25; v. 274; p. 714.
Worrall, George H., Kirkwood, Mo., assignor to United Lead Company, New York, N. Y. Bearing. No. 1,339,084; May 4; v. 274; p. 81.
Worrell, Robert H., Statesburg, W. Va. Metal tie and rail-fastener. No. 1,341,609; May 25; v. 274; p. 764.
Worth, Thomas Bond, & Sons Limited. (See Davis, Arthur, assignor.)
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Worthington Pump and Machinery Corporation. (See Meyer, Robert, assignor.)
Wray, Albert A., Fredonia, Kans. Computing-table device. No. 1,338,892; May 4; v. 274; p. 45.
Wright, Daniel K., Paterson, N. J., assignor to General Electric Company. Shaped filament. No. 1,339,998; May 11; v. 274; p. 328.
Wright, John F., Damon, Tex. Pipe-cutter. No. 1,339,641; May 11; v. 274; p. 261.
Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Inc., New York, N. Y. Telephone-exchange system. No. 1,339,010; May 4; v. 274; p. 66.
Wuesthoff, Frederick J., San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Mail-chute. (Reissue.) No. 14,854; May 4; v. 274; p. 135.
Wuesthoff, Frederick J., San Francisco, Calif., assignor to American Mailing Device Corporation of New York. Mail-chute. (Reissue.) No. 14,855; May 4; v. 274; p. 136.
Wundrack, Otto, Maywood, Ill. Flat arch for furnaces. No. 1,339,615; May 11; v. 274; p. 256.

Wundrack, Otto, assignor to Petersen Owen Company, Chicago, Ill. Multiple baker's oven. No. 1,339,616; May 11; v. 274; p. 256.
Wright, Frank, Blairmore, Alberta, Canada. Security sheath hinge and door fastening. No. 1,340,430; May 18; v. 274; p. 468.
Wright, Harry A., Springfield, Mass., assignor to The American Hardware Corporation, New Britain, Conn. Valve-grinder. No. 1,341,001; May 25; v. 274; p. 647.
Wright, John M., Birmingham, Ala. Float mechanism. No. 1,341,002; May 25; v. 274; p. 647.
Wright, Reuben I., Wickliffe-on-the-Lake, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Motor-control system. (Reissue.) No. 14,861; May 18; v. 274; p. 550.
Wyatt, Everett, assignor to United States Convertible Car Co., Fort Worth, Tex. Convertible stock and freight car. No. 1,338,805; May 4; v. 274; p. 29.
Wyatt, Thomas J. (See Stokes, S. I., and Wyatt.)
Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)
Yardley, John L. M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,339,910; May 11; v. 274; p. 312.
Yarnell, John B., and H. Frank, Johnstown, Pa. Baseball-overshoe. No. 1,340,356; May 18; v. 274; p. 453.
Yates, John W., New York, N. Y. Fireproof window-closing means. No. 1,340,311; May 18; v. 274; p. 444.
Yates, John W., New York, N. Y. Fireproof window. No. 1,340,312; May 18; v. 274; p. 444.
Yearwood, Byrd O. (See Jackson, R. E., and Yearwood.)
Yents, Samuel W., Monrovia, Calif. Hook-and-eye fastener. No. 1,340,858; May 18; v. 274; p. 547.
Yoerg, Henry, St. Paul, Minn. Friction draft-gear. No. 1,338,893; May 4; v. 274; p. 45.
Yonemoto, Karoku, Honolulu, Hawaii. Puzzle. No. 1,339,251; May 4; v. 274; p. 111.
Yorke, Patrick, Washington, Pa. Bull-wheel. No. 1,341,096; May 25; v. 274; p. 665.
Young, George H., St. Paul, Minn., assignor to Automatic Storage Platform Company. Garage. No. 1,341,097; May 25; v. 274; p. 665.
Young, Leonard A., Detroit, Mich. Upholstery-spring construction. No. 1,338,806; May 4; v. 274; p. 29.
Youngman, Emanuel M., Coney Island, N. Y. Thermostat-controller for hot-water gas-heaters. No. 1,340,513; May 18; v. 274; p. 483.
Younkin, David F., Johnstown, Pa. Printing-frame. No. 1,338,894; May 4; v. 274; p. 45.
Yungk, Edwin L., Hartford, Conn. Swagger-stick. No. 1,340,746; May 18; v. 274; p. 527.
Zahn, Otto E., assignor to Standard Machinery Company, Schleisingerville, Wis. Spring-perch. No. 1,338,895; May 4; v. 274; p. 45.
Zamecnik, Frank, Washington, D. C. Musical instrument. No. 1,340,098; May 11; v. 274; p. 347.
Zawistowski, Martin, Brooklyn, N. Y. Fur-cutting machine. No. 1,341,450; May 25; v. 274; p. 734.
Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Box-operating mechanism. No. 1,339,999; May 11; v. 274; p. 328.
Zelewski, Roman v. and H. Siegel, Engis, Belgium. Device for pushing back ores into the interior of mechanical muffler roasting-furnaces. No. 1,339,252; May 4; v. 274; p. 111.
Zetterlund, Carl, Chicago, Ill. Hoisting apparatus and controlling means therefor. No. 1,339,253; May 4; v. 274; p. 111.
Zimarik, John, Akron, Ohio. Tractor. No. 1,341,098; May 25; v. 274; p. 665.
Zimmer, George W. (See Okun, Morris B., assignor.)
Zimmerman, Carrie F., Taft, Calif. Bedpan. No. 1,340,680; May 18; v. 274; p. 515.
Zipp, Arthur J., Charlevoix, Mich. Logging grapples or tongs. No. 1,340,313; May 18; v. 274; p. 445.
Zitella, William, Adamston, W. Va. Vegetable-cutter. No. 1,339,254; May 4; v. 274; p. 112.
Zukowski, Michal, Wilmington, Del. Padlock. No. 1,340,928; May 25; v. 274; p. 632.
Züst, Paul, Rheineck, and J. Metzger, Heiden, assignors to Stahell, Rietmann & Co., St. Gallen, Switzerland. Pantograph embroidery-machine. No. 1,341,160; May 25; v. 274; p. 677.
Zwicky, Jean, South Tottenham, England. Pump and compressor. No. 1,339,311; May 4; v. 274; p. 121.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Abolin, Harry T., Woodridge, N. J., assignor to Witcombe McGeachin & Co., New York, N. Y. Article of manufacture. No. 55,108; May 11; v. 274; p. 356.
Adams, Julius F., Pittsburgh, Pa. Fireplace-grate. No. 55,228; May 25; v. 274; p. 769.
Ainsworth, Albert, Swarthmore, assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,109–12. May 11; v. 274; p. 356.
Aisenstein, Julius, New York, N. Y. Button, badge, or similar article. 55,229; May 25; v. 274; p. 769.
Ajax Rubber Company. (See Kraft, Emil J., assignor.)
Alexander, Arthur S., New York, N. Y., assignor to J. Alexander Manufacturing Company. Bezel. No. 55,230; May 25; v. 274; p. 769.
Alexander, J., Manufacturing Company. (See Alexander, Arthur S., assignor.)
Allard, Edwin R., Athol, Mass. Label. No. 55,113; May 11; v. 274; p. 357.
Allard, Maurice L. A. A., Akron, Ohio, assignor to The Overland Tire & Rubber Co., Omaha, Nebr. Tire-tread. No. 55,144; May 18; v. 274; p. 550.
Alsterlund, Henry E., Roslindale, Mass. Badge, emblem, or similar article. Nos. 55,013–14; May 4; v. 274; p. 136.
American Auto Lamp Company. (See Berk, William, assignor.)
American Balsa Company. (See Ranlett, David L., assignor.)
American Cement Products Company. (See Landwehr, Henry A., assignor.)
American Fabrics Company, The. (See Smith, William H., assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Type Founders Company. (See Goudy, Frederick W., assignor.)
Antrim, William D., assignor to Welsbach Company, Gloucester City, N. J. Gas-stove radiant. No. 55,231; May 25; v. 274; p. 769.
Arnold, Edwin E., assignor to Iron City Products Company, Pittsburgh, Pa. Lifting-jack. Nos. 55,015–16; May 4; v. 274; pp. 136–7.
Arnold, Edwin E., assignor to Iron City Products Company, Pittsburgh, Pa. Lifting-jack. Nos. 55,232–3; May 25; v. 274; p. 770.
Art In Buttons, Inc. (See Hallauer, Charles, assignor.)
Ashland Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Ayala, Federico. (See Campderá, R., and Ayala.)
Association of Army and Navy Stores. (See Victor, David E., assignor.)
Bailey, Mark W., New York, N. Y. Liquid-projecting device. No. 55,017; May 4; v. 274; p. 137.
Barden, Clifford A., Wakeman, Ohio. Child's riding-car. No. 55,234; May 25; v. 274; p. 770.
Barney, James D., New York, assignor to Pioneer Products, Incorporated, Malone, N. Y. Rubber sole-pad for boots and shoes. Nos. 55,114–16; May 11; v. 274; p. 357.
Barthels Manufacturing Company. (See Wiberley, Frank, assignor.)
Bassett, Anna R. W., Norwood, Pa. Flag, banner, pennant, emblem, or article of similar nature. No. 55,235; May 25; v. 274; p. 770.
Beach, H. D., Company. (See Stetson, John P., assignor.)
Becker, Smith & Page. (See Ainsworth, Albert, assignor.)
Becker, Smith & Page. (See Roehlin, William F., assignor.)
Belfry, Michael. (See Sedell, C. H., Whelan, and Belfry.)
Bellis, John R., Hackettstown, N. J. Button. No. 55,018; May 4; v. 274; p. 137.
Belz, Edward P., Athens, Wis. Chain-trace link. No. 55,117; May 11; v. 274; p. 357.
Benedict, T. N., Mfg. Co. (See Saunders, Albert F. assignor.)
Bennet, Harold W., Evanston, Ill. Clock-casing. No. 55,019; May 4; v. 274; p. 137.
Bennie, George E., Nashville, Tenn. Tire-tread. No. 55,236; May 25; v. 274; p. 77.
Bent, George H. (See Cheney, Forest, assignor.)
Benvenuti, Julius D., assignor to M. Moran, San Francisco, Calif. Doll. No. 55,020; May 4; v. 274; p. 137.
Berg, Harrison L. Everett, Mass. Fender for automobiles. No. 55,237; May 25; v. 274; p. 770.
Berk, William, assignor to American Auto Lamp Company, Inc., New York, N. Y. Auto tail-lamp. No. 55,021; May 4; v. 274; p. 137.
Berwick, George H., Hampstead, England. Carving-dish. No. 55,238; May 25; v. 274; p. 771.
Blair, James B., assignor of one-half to F. B. Owens, Decatur, Ill. Trail-marker. No. 55,022; May 4; v. 274; p. 137.
Blood, Thomas G., Birmingham, England. Housemaid's box. No. 55,023; May 4; v. 274; p. 138.
Bowman Hotel Corporation. (See Holland, Julian, assignor.)
Bradfield, Fred E., Davenport, Iowa. Radiator. No. 55,145; May 18; v. 274; p. 551.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio. Tire-tread. Nos. 55,146–7; May 18; v. 274; p. 551.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Cleveland, Ohio. Vehicle-tire. Nos. 55,239–40; May 25; v. 274; p. 771.
Bresloff, Charles, New York, N. Y. Electric-chandelier top. No. 55,241; May 25; v. 274; p. 771.
Bresloff, Charles, New York, N. Y. Electric-chandelier arm. No. 55,242; May 25; v. 274; p. 771.

Brown, Herbert W., Ashland, Ohio. Replacement unit for headlights. No. 55,243; May 25; v. 274; p. 771.
Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)
Buck, Helen M., New York, N. Y., assignor to The Camp Fire Girls, Inc., Woman's or miss's costume. No. 55,244; May 25; v. 274; p. 772.
Buffalo Truck & Tractor Corporation. (See Oversmith, Elmer H., assignor.)
Bunting, James H., assignor to Susquehanna Silk Mills, N. Y. Textile fabric. Nos. 55,245–7; May 25; v. 274; p. 772.
Burton Bros. & Co. (See Flint, Addison, assignor.)
Camp Fire Girls, The. (See Buck, Helen M., assignor.)
Campderá, Ramon, and F. Ayala, Mexico, Mexico. Perfumery-bottle. No. 55,024; May 4; v. 274; p. 138.
Campling, Gilbert, Purley, assignor to Gilbert Campling, Limited, London, England. Motor-scooter. No. 55,148; May 18; v. 274; p. 551.
Campling, Gilbert, Purley, assignor to Gilbert Campling, Limited, London, England. Motor-scooter. No. 55,148; May 18; v. 274; p. 551.
Cheney, Forest, Grand Rapids, Mich., assignor of one-third to G. H. Bent, Chicago, Ill. Bell for a brass-wind instrument. No. 55,149; May 18; v. 274; p. 551.
Chicago Surgical & Electrical Company. (See Lidberg, Tlodolf, assignor.)
Cirelli, Francesco, Philadelphia, Pa. Sound-conducting device for talking-machines. No. 55,025; May 4; v. 274; p. 138.
Clarke, Walter H., Elyria, Ohio. Tire-tread. No. 55,026; May 4; v. 274; p. 138.
Cluett, Peabody & Co. (See Hurd, Hubbard F., assignor.)
Continental Sheffield Silver Co. (See Gaertner, Victor, assignor.)
Cook, Otis W., Monett, Mo. Electric-lamp bulb. No. 55,248; May 25; v. 274; p. 772.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Bowl for lighting-fixtures. No. 55,249; May 25; v. 274; p. 772.
Dandoy, John J. (See McDonnell, G. F., and Dandoy.)
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 55,150–55; May 18; v. 274; p. 552.
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. No. 55,250; May 25; v. 274; p. 773.
Dayton Manufacturing Company, The. (See Hutchins, Rufus J., assignor.)
De Lautroppe, Albert, and H. M. Mesrines, New York, N. Y. Medal. No. 55,027; May 4; v. 274; p. 138.
Delikat, Thomas, Newark, N. J. Spring support and hanger. No. 55,156; May 18; v. 274; p. 553.
Dommenge, Harry F., Jr., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,251; May 25; v. 274; p. 773.
Doran, Robert L., Chicago, Ill. Oil-burner. No. 55,028; May 4; v. 274; p. 138.
Drake, John, West Orange, N. J. Badge, button, or similar article. No. 55,252; May 25; v. 274; p. 773.
Dubish, Mike, Chicago, Ill. Curtain and shade hanger. No. 55,157; May 18; v. 274; p. 553.
Dueber, Albert M., assignor to The Dueber Watch Case Manufacturing Company, Canton, Ohio. Watch-bow. No. 55,029; May 4; v. 274; p. 139.
Dueber Watch Case Manufacturing Company, The. (See Dueber, Albert M., assignor.)
Duersten, William E., New Castle, Pa. Non-skid tire. Nos. 55,118–19; May 11; v. 274; p. 357.
Duffy, John A. (See Van Wagner, L. M., and Duffy.)
Dulczewski, Sigmund A., Buffalo, N. Y. Clock-case. No. 55,120. May 11; v. 274; p. 358.
Durham, William E., assignor to The Emory Rubber Sole Co., Inc., Norfolk, Va. Shoe-heel. No. 55,158; May 18; v. 274; p. 553.
Earl, Charles M., Detroit, Mich. Beverage-dispensing device. No. 55,121; May 11; v. 274; p. 358.
Eaton, Richard M., Niagara Falls, N. Y. Adapter-head for flash-lights. No. 55,253; May 25; v. 274; p. 773.
Eberhardt, Paul, Palisade, N. J., assignor to Patchogue Manufacturing Company, New York, N. Y. Lace. No. 55,030; May 4; v. 274; p. 139.
Elsele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,254–8; May 25; v. 274; p. 773.
Ekman, Einar P., Chicago, Ill. Automobile-radiator ornament. No. 55,259; May 25; v. 274; p. 774.
Electric Phonograph Corporation, The. (See Thorpe, Walter, assignor.)
Emmire Tire & Rubber Corporation. (See Seabridge, William, assignor.)
Emory Rubber Sole Co., Inc., The. (See Durham, William E., assignor.)
Essayan, Harold G., Brookline, Mass. Spoon. No. 55,031; May 4; v. 274; p. 139.
Fidelity Tire & Rubber Company. (See McConnell, George C., assignor.)
Fischer, William, New York, N. Y. Gem-setting. No. 55,260; May 25; v. 274; p. 774.
Flint, Addison, Hempstead, assignor to Burton Bros. & Co., New York, N. Y. Article of manufacture. Nos. 55,261–3; May 25; v. 274; p. 774.
Follmer, Willis M., New York, N. Y. Handle for umbrellas or parasols. No. 55,264; May 25; v. 274; p. 775.
Forrest, Edwin, New York, N. Y. Combined phonograph case and cabinet. No. 55,159; May 18; v. 274; p. 553.
Fort Wayne Tire & Rubber Manufacturing Company. (See Kraft, Louis E., assignor.)
Friedman, Alexander, assignor to Pennsy Watch Company, Pittsburgh, Pa. Top plate for watch-movements. No. 55,265; May 25; v. 274; p. 775.
Fuhrmann, Henry W. A., Alhambra, Calif. Toy automobile. No. 55,032; May 4; v. 274; p. 139.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Card-holder. No. 55,266; May 25; v. 274; p. 775.
Fybush, Moses F., Los Angeles, Calif. Cabinet for a talking-machine. No. 55,033; May 4; v. 274; p. 139.
Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile-tire. No. 55,122; May 11; v. 274; p. 358.
Gaertner, Victor, New York, assignor to Continental Sheffield Silver Co., Brooklyn, N. Y. Article of hollow tableware. Nos. 55,160–4; May 18; v. 274; pp. 553–4.
Garford Manufacturing Company, The. (See Kunkle, George R., assignor.)
Garnett, James C. M., Manchester, England. Flag. No. 55,034; May 4; v. 274; p. 139.
General Electric Company. (See Gosling, Joseph W., assignor.)
General Electric Company. (See O'Neil, James A., assignor.)
Gilbert Campling, Limited. (See Campling, Gilbert, assignor.)
Giroux, Leon M., New York, N. Y. Watch-stand. No. 55,035; May 4; v. 274; p. 140.
Gordon Electric Mfg. Co., The. (See Seltzer, Ira R., assignor.)
Gorham Manufacturing Company. (See Staf, Axel H., assignor.)
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Canopy for a lamp-globe. Nos. 55,165–7; May 18; v. 274; p. 554.
Goudy, Frederick W., Forest Hills Garden, N. Y., assignor to American Type Founders Company, Jersey City, N. J. Font of type. No. 55,267; May 25; v. 274; p. 776.
Grayson, John H., Athens, Ohio. Gas-heater. No. 55,168; May 18; v. 274; p. 555.
Greene, Frank R., Chicago, Ill. Casing for a vending-machine. No. 55,268; May 25; v. 274; p. 776.
Greenfield, Arthur L., Newark, N. J. Toy known as a go-heel. No. 55,036; May 4; v. 274; p. 140.
Griswold, Manufacturing Company. (See Massing, Charles A., assignor.)
Gunther, Joseph, Kansas City, Mo. Plate or similar article. No. 55,269; May 25; v. 274; p. 776.
Haag Cabinet Company. (See Howard, Emmett M., assignor.)
Haddix, James P., Crawford, Nebr. Combined pocket-knife and bottle-opener. No. 55,123; May 11; v. 274; p. 358.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Auto-curtain window. No. 55,169; May 18; v. 274; p. 555.
Hallauer, Charles, assignor to Art In Buttons, Inc., Rochester, N. Y. Button. No. 55,037; May 4; v. 274; p. 140.
Hamilton, John R., Yonkers, N. Y., assignor to Automatic Sprinkler Company of America. Retainer-lever for a sprinkler-head or similar article. No. 55,038; May 4; v. 274; p. 140.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Sprinkler-head or similar article. No. 55,124; May 11; v. 274; p. 359.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Frame for a sprinkler-head or similar article. No. 55,170; May 18; v. 274; p. 555.
Hammer, Charles, assignor to American Metal Cap Company, Queens, N. Y. Bottle-cap. No. 55,125; May 11; v. 274; p. 359.
Hanley, John L., Chicago, Ill. Tread of a pneumatic-tire casing. No. 55,171; May 18; v. 274; p. 555.
Hanson, Norah, Sharon, N. D. Hero service pin, badge, or similar article. No. 55,270; May 25; v. 274; p. 776.
Hartline, William A., Penns Grove, N. J. Service-pin. No. 55,039; May 4; v. 274; p. 140.
Hasel, Leo, San Francisco, Calif. Shoe-plate. No. 55,126; May 11; v. 274; p. 359.
Hatch, Florence B., St. Louis, Mo. Doll. No. 55,040; May 4; v. 274; p. 141.
Hatfield, Robert L., Newark, N. J. Emblem, badge, pin, fob, ring, or like article. No. 55,041; May 4; v. 274; p. 141.
Heath, Thomas, assignor to The Standard Button Company, Attleboro, Mass. Pin or similar article. No. 55,042; May 4; v. 274; p. 141.
Heine, Frank H. (See Nicholas, L. B., and Heine.)
Henry, George J. (See Schoenberg, M. H., and Henry.)
Hess, Herman, Baltimore, Md. Heel. No. 55,127; May 11; v. 274; p. 359.
Heywood Brothers & Wakefield Company. (See Keeney, Howard R., assignor.)
Hickok Manufacturing Company. (See Davis, Earl M., assignor.)
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Hill, Dexter B. (See Thompson, Milton O., assignor.)

Hinger, John A., Detroit, Mich. Radiator. No. 55,043; May 4; v. 274; p. 141.
Hinger, John A., Detroit, Mich. Radiator. No. 55,044; May 4; v. 274; p. 141.
Hirsch, Julius, Brooklyn, N. Y. Saltcellar. No. 55,271; May 25; v. 274; p. 776.
Hoffman, Harry and L., Philadelphia, Pa. Seepage-intercepting attachment for dashboards. No. 55,172; May 18; v. 274; p. 555.
Hoffman, Lois. (See Hoffman, Harry and L.)
Holland, Julian, assignor to Bowman Hotel Corporation, New York, N. Y. Plate or similar article. No. 55,272; May 25; v. 274; p. 776.
Howard, Emmett M., Merchantville, N. J., assignor to Haag Cabinet Company, Philadelphia, Pa. Phonographic-disk-record cabinet. No. 55,045; May 4; v. 274; p. 141.
Howe Rubber Corporation. (See Tenney, John, Jr., assignor.)
Huebsch, Arthur A., Congress Park, Ill. Service-flag or similar article. No. 55,273; May 25; v. 274; p. 777.
Humphrey, Alfred H., New York, N. Y. Gas-stove. Nos. 55,173–8; May 18; v. 274; 556.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 55,046; May 4; v. 274; p. 141.
Humphrey, Clen S., Brooklyn, N. Y. Powder-can or similar receptacle. No. 55,047; May 4; v. 274; p. 142.
Humphrey, Ira V., Highland Park, Pa. Tire. No. 55,048; May 4; v. 274; p. 142.
Hurd, Hubbard F., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Fold-collar. No. 55,128; May 11; v. 274; p. 359.
Husser, Charles A., Torrington, Conn. Curtain-pole and shade bracket. No. 55,274; May 25; v. 274; p. 777.
Hutchins, Rufus J., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Casing for water-heaters. No. 55,179; May 18; v. 274; p. 557.
International Silver Co. (See Kintz, Alfred G., assignor.)
Iron City Products Company. (See Arnold, Edwin E., assignor.)
Ivy, William F., Rock Island, Ill. Flag. No. 55,275; May 25; v. 274; p. 777.
Jacobs, Samuel A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Font of Syriac type. Nos. 55,049–51; May 4; v. 274; p. 142.
Janicez, Antoni, Curtis Bay, Md. Hairpin. No. 55,052; May 4; v. 274; p. 142.
Johanson, Emil G., assignor to D. H. Roblin, Chicago, Ill. Prism-glass. No. 55,276; May 25; v. 274; p. 777.
Kazanjian, Manoog, Boston, Mass. Phonograph-record. No. 55,053; May 4; v. 274; p. 142.
Keeney, Howard R., Melrose, assignor to Heywood Brothers Wakefield Company, Wakefield, Mass. Child's vehicle. No. 55,054; May 4; v. 274; p. 143.
Keystone Manufacturing Company. (See Marks, Isidore, assignor.)
Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 55,180; May 18; v. 274; p. 557.
Kirchen, Theodore, Chicago, Ill. Novelty-basket. No. 55,055; May 4; v. 274; p. 143.
Knothe, Frank F., Ridgewood, N. J. Belt. No. 55,056; May 4; v. 274; p. 143.
Knott, Henry, Boston, Mass., assignor to The R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon, fork, or similar article. No. 55,131; May 11; v. 274; p. 360.
Koken, Walter F., St. Louis, Mo. Towel-urn. No. 55,129; May 11; v. 274; p. 359.
Koken, Walter F., St. Louis, Mo. Cuspidor. No. 55,130; May 11; v. 274; p. 360.
Kominkiewicz, Marcel, South Omaha, Nebr. Wrist-mirror. No. 55,277; May 25; v. 274; p. 777.
Kraeuter, Arthur A., South Orange, N. J. Golf-club head. No. 55,278; May 25; v. 274; p. 777.
Kraft, Emil J., Racine, Wis., assignor to Ajax Rubber Company, Inc., New York, N. Y. Tire. No. 55,132; May 11; v. 274; p. 360.
Kraft, Louis E., assignor to Fort Wayne Tire & Rubber Manufacturing Company, Fort Wayne, Ind. Pneumatic-tire tread. No. 55,057; May 4; v. 274; p. 143.
Kregling, Adolf, Stratford, Conn. Musical instrument. No. 55,058; May 4; v. 274; p. 143.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,279–85; May 25; v. 274; p. 778.
Kumler, Harry F., and I. K. Rystedt, assignors to The Modern Comb and Device Company, Dayton, Ohio. Shell for a spark-plug. No. 55,133; May 11; v. 274; p. 360.
Kunkle, George R., assignor to The Garford Manufacturing Company, Elyria, Ohio. Phonograph-casing. No. 55181; May 18; v. 274; p. 557.
Landry, Joseph L. P., Mont Joli, Quebec, Canada. Headlight-bracket. No. 55,182; May 18; v. 274; p. 557.
Landwehr, Henry A., assignor to American Cement Products Company, Los Angeles, Calif. Post. No. 55,134; May 11; v. 274; p. 360.
Langhammer, Frank L. (See Warner, D. C., and Langhammer.)
Langlois, Arthur E., New Bedford, Mass. Pennant. No. 55,286; May 25; v. 274; p. 779.
Large, George C., assignor to Wear-Well Tire Company, Mahoningtown, Pa. Vehicle-tire. No. 55,059; May 4; v. 274; p. 143.
Larson, Ragnar, Chicago, Ill. Boy's wagon. No. 55,060; May 4; v. 274; p. 144.
Lawlor, Emery L., Youngstown, Ohio. Tire. No. 55,287; May 25; v. 274; p. 779.
Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Candelabrum. Nos. 55,183–5; May 18; v. 274; pp. 557–8.
Le Duc, Nancy B., Santa Monica, Calif. Button, brooch, badge, or similar article. No. 55,061; May 4; v. 274; p. 144.
Lesem, Isaac H., St. Louis, Mo. Hand or toilet fan. No. 55,062; May 4; v. 274; p. 144.
Lidberg, Tlodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Physician's table. No. 55,186; May 18; v. 274; p. 558.
Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 55,288; May 25; v. 274; p. 779.
Lloyd, Thomas, Boston, Mass. Sanitary fountain. No. 55,063; May 4; v. 274; p. 144.
Loewenberg, Isador E., Converse, Ind. Clothes-hamper. No. 55,289; May 25; v. 274; p. 779.
Luminous Unit Company. (See Owen, Raymond V., assignor.)
Luttinger, William G., Morenci, Ariz. Carbid-lamp cleaner. No. 55,290; May 25; v. 274; p. 779.
Luttringhaus, Walter, Maywood, Ill. Cooker-pot. No. 55,187; May 18; v. 274; p. 558.
Lutz, John E., Blair, Nebr. Cemetery-lot coping. No. 55,064; May 4; v. 274; p. 144.
McCargar, Rush, Seattle, Wash. Casing for a stage flood-light. No. 55,189; May 18; v. 274; p. 558.
McConnell, George C., assignor to Fidelity Tire & Rubber Co., Massillon, Ohio. Tire-tread or similar article. No. 55,190; May 18; v. 274; p. 559.
McDonald, John B., East Liverpool, Ohio. Hollow china tableware article. No. 55,067; May 4; v. 274; p. 145.
McDonnell, George F., Charleston, and J. J. Dandoy, Dunbar, W. Va. Milk-jar. No. 55,068; May 4; v. 274; p. 145.
McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch case and bow. No. 55,136; May 11; v. 274; p. 361.
McKee, John J., East Orange, N. J. Naval service-flag. No. 55,069; May 4; v. 274; p. 146.
McMasters, William H., Allston, Mass. Flag, pennant, sign, emblem, or article of a similar nature. No. 55,297; May 25; v. 274; p. 781.
McMullen, Charles. (See Miller, A. G., and McMullen.)
MacLewee, Carrie H. (See MacLewee, William S., assignor.)
MacLewee, William S., assignor to C. H. MacLewee, Trenton, N. J. Shade for electric lamps. No. 55,291; May 25; v. 274; p. 780.
Majestic Electric Development Company. (See Schoenberg, M. H., and Henry, assignors.)
Marks, Isidore, assignor to Keystone Manufacturing Company, Boston, Mass. Toy motion-picture machine. No. 55,107; May 4; v. 274; p. 152.
Marsh, C. A., and Company. (See Rounseville, William E., assignor.)
Marsico, Gerard R., Brooklyn, N. Y. Automobile-horn casing. Nos. 55,292–5; May 25; v. 274; p. 780.
Masonoff, Morris H. J., Kansas City, Mo. Housing for a spark-intensifier. No. 55,065; May 4; v. 274; p. 145.
Massing, Charles A., Millcreek township, Erie county, assignor to Griswold Manufacturing Company, Erie, Pa. Cooking-receptacle. No. 55,188; May 18; v. 274; p. 558.
Mathieu, Frederick W., New York, N. Y. Globe for lighting-fixtures. No. 55,296; May 25; v. 274; p. 780.
Maxwell, John S., Richmond, Ind. Balloon-valve. No. 55,135; May 11; v. 274; p. 361.
Mergenthaler Linotype Company. (See Jacobs, Samuel A., assignor.)
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Mesrines, Henry M. (See de Lautreppe, A., and Mesrines.)
Messer, Charles J., Syracuse, N. Y. Candle. No. 55,066; May 4; v. 274; p. 145.
Miller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 55,191; May 18; v. 274; p. 559.
Miller, Harry A., Los Angeles, Calif. Automobile. No. 55,070; May 4; v. 274; p. 146.
Miller, Morris S., Cleveland, Ohio. Hand-stamp. No. 55,137; May 11; v. 274; p. 361.
Mix, Melville, W., Mishawaka, Ind. Phonograph-cabinet. No. 55,298; May 25; v. 274; p. 781.
Modern Comb and Device Company, The. (See Kumler, H. F., and Rystedt, assignors.)
Moffat, Frederick W., assignor to The Moffat Stove Company Limited, Weston, Ontario, Canada. Insulator-porcelain for electric ovens. No. 55,071; May 4; v. 274; p. 146.
Moffat Stove Company, The. (See Moffat, Frederick W., assignor.)
Moor, Herbert H., Davenport, Iowa. Radiator-cap ornament. No. 55,072; May 4; v. 274; p. 146.
Moran, May. (See Benvenuti, Julius D., assignor.)
Morrison, Ralph W., Omaha, Nebr. Phonograph-cabinet. No. 55,073; May 4; v. 274; p. 146.

Neble, Arnold, Weehawken, N. J. Doll-head. No. 55,074; May 4; v. 274; p. 146.
Neilsen, Alice, St. Louis Park, Minn. Paper-weight. No. 55,299; May 25; v. 274; p. 781.
Nicholas, Lorena B., Los Angeles, and F. H. Heine, Santa Ana, Calif. Toy aeroplane. No. 55,075; May 4; v. 274; p. 147.
Nichthauser, Charles A., New York, N. Y. Purse. Nos. 55,102–3; May 18; v. 274; p. 559.
Nichthauser, Charles A., New York, N. Y. Purse. No. 55,300; May 25; v. 274; p. 781.
Nightingale Manufacturing Company. (See Wolper, Harry B., assignor.)
Novak, John J., Omaha, Nebr. Automobile-tire or similar article. Nos. 55,301–2; May 25; v. 274; p. 781.
Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Top plate for a phonograph-motor. No. 55,194; May 18; v. 274; p. 559.
Obrecht, Frances, Flint, Mich. Sammy Sandman doll. No. 55,076; May 4; v. 274; p. 147.
O'Neil, James A., Lynn, Mass., assignor to General Electric Company, New York. Canopy for a lamp-globe. No. 55,303; May 25; v. 274; p. 781.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,304–8; May 25; v. 274; p. 782.
Otte, Otho M., Tarentum, Pa. Light diffusing and projecting attachment for automotive lamps. Nos. 55,309–11; May 25; v. 274; p. 782.
Overland Tire and Rubber Co., The. (See Allard, Maurice L. A. A., assignor.)
Oversmith, Elmer H., assignor to Buffalo Truck & Tractor Corporation, Buffalo, N. Y. Radiator. No. 55,312 May 25; v. 274; p. 783.
Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Lamp-shade. No. 55,195; May 18; v. 274; p. 559.
Owen, William C., Cleveland, Ohio. Tire-casing. Nos 55,313–15; May 25; v. 274; p. 783.
Owens, Frank B. (See Blair, James B., assignor.)
Page, Samuel D., Des Moines, Iowa. Pad-rack. No. 55,077; May 4; v. 274; p. 147.
Pasecky, Karl, Washington, D. C. Toy animal. No. 55,078; May 4; v. 274; p. 147.
Patchogue Manufacturing Company. (See Eberhart, Paul, assignor.)
Patterson, Robert A., Chicago, Ill. Statuette. No. 55,316; May 25; v. 274; p. 784.
Pearson, Sigrid L. M., Chicago, Ill. Phonograph-casing. No. 55,196; May 18; v. 274; p. 560.
Pennsy Watch Company. (See Friedman, Alexander, assignor.)
Peoples, Walter R., Rochester, N. Y. Toy vehicle. No. 55,317; May 25; v. 274; p. 784.
Phillips, Earl, Cleveland, Ohio. Shoe-sole. No. 55,318; May 25; v. 274; p. 784.
Pioneer Products, Incorporated. (See Barney, James E., assignor.)
Ranlett, David L., New York, N. Y., assignor to American Balsa Company. Surf-board. No. 55,079; May 4; v. 274; p. 147.
Reaper, William A., Monroe, Mich. Compartment-jar. No. 55,319; May 25; v. 274; p. 784.
Reid, Elmer A., Somerset, N. J. Tire. No. 55,080; May 4; v. 274; p. 147.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,324–6; May 25; v. 274; p. 785.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,320–3; May 25; v. 274; p. 784.
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Rieg, Bernard E., and E. B. Williams, Los Angeles, Calif. Statuette. No. 55,138; May 11; v. 274; p. 361.
Ripich, Louis J., Cleveland, Ohio. Combination lamp-stand. No. 55,327; May 25; v. 274; p. 785.
Roberts, Charles O. and W. M., Ashland, Ohio. Child's vehicle. No. 55,328; May 25; v. 274; p. 786.
Roberts, Lafayette, Philadelphia, Pa. Talking-machine cabinet. No. 55,329; May 25; v. 274; p. 786.
Roberts, William M. (See Roberts, Charles O. and W. M.)
Robertson, John C., Glasgow, Scotland. Golf-ball. No. 55,330; May 25; v. 274; p. 786.
Roblin, David H. (See Johanson, Emil G., assignor.)
Roehlin, William F., Rochester, N. Y., assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. No. 55,139; May 11; v. 274; p. 361.
Rotary Tire and Rubber Company, The. (See Sterns, Edward O., assignor.)
Rounseville, William E., assignor to C. A. Marsh and Company, Attleboro, Mass. Belt-clasp. Nos. 55,081–2; May 4; v. 274; p. 148.
Rounseville, William E., assignor to C. A. Marsh and Company, Attleboro, Mass. Belt-clasp. No. 55,197; May 18; v. 274; p. 560.
Rystedt, Ingemar K. (See Kumler, H. F., and Rystedt.)
Sandstrom, August E., New York, N. Y. Toy top. No. 55,084; May 4; v. 274; p. 148.
Saunders, Albert F., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Sundae-cup. No. 55,085; May 4; v. 274; p. 148.
Saunders, Albert F., Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Sundae-holder. No. 55,086; May 4; v. 274; p. 149.
Schell, George N., Cleveland, Ohio. Vehicle-tire. No. 55,332; May 25; v. 274; p. 786.
Schiff, Samuel S., Chicago, Ill., assignor to Vitanola Talking Machine Co. Sound-reproducer for a phonograph or similar device. No. 55,333; May 25; v. 274; p. 786.
Schleicher, Adolf B., Pasadena, Calif. Tire. No. 55,087; v. 274; p. 149.
Scott-Ullman Company. (See Ullman, Albert, assignor.)
Seabridge, William, assignor to Empire Tire & Rubber Corporation, Trenton, N. J. Tire. No. 55,140; May 11; v. 274; p. 362.
Sedell, Charles H., C. C. Whelan, and M. Belfry, Chicago, Ill., assignors to C. H. Sedell and C. C. Whelan. Memorial tablet. No. 55,089; May 4; v. 274; p. 149.
Seeholzer, Albert G., Detroit, Mich. Emblem, badge, or similar article. No. 55,088; May 4; v. 274; p. 149.
Seltzer, Ira R., Waterbury, assignor to The Gordon Electric Mfg. Co., Waterville, Conn. Plural-pole entrance-switch base. No. 55,090; May 4; v. 274; p. 149.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 55,091; May 4; v. 274; p. 149.
Shapiro and Aronson Inc. (See Westphal, Gottfried, assignor.)
Sharpe, James, Detroit, Mich. Game apparatus. No. 55,092; May 4; v. 274; p 150.
Shaw, Charles M., Yoker, Scotland. Automobile-body. No. 55,334; May 25; v. 274; p. 787.
Sheer, Charles, Corona, N. Y. Finger-ring; No. 55,335; May 25; v. 274; p. 787.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 55,198–213; May 18; v. 274; pp. 560–2.
Shoenberg, Milton H., and G. J. Henry, assignors to Majestic Electric Development Company, San Francisco, Calif. Electric heater. No. 55,336; May 25; v. 274; p. 787.
Smigielski, Stanley, Detroit, Mich. Lamp-box. No. 55,093; May 4; v. 274; p. 150.
Smith, Harry J., Binghamton, N. Y. Vehicle-tire. No. 55,094; May 4; v. 274; p. 150.
Smith, William H., assignor to The American Fabrics Company, Bridgeport, Conn. Lace for trimming purposes. No. 55,095; May 4; v. 274; p. 150.
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 55,096; May 4; v. 274; p. 150.
Standard Button Company, The. (See Heath, Thomas, assignor.)
Standard Four Tire Company. (See Gabeline, Jacob B., assignor.)
Standard Tire Company, The. (See Tinsman, Edgar A., assignor.)
Staufenbell, Karl, Dubuque, Iowa. Collar-clip. No. 55,214; May 18; v. 274; p. 563.
Steinert, Rudolph, New Haven, Conn. Phonograph-needle. No. 55,097; May 4; v. 274; p. 150.
Sterns, Edward O., Columbus, assignor to The Rotary Tire and Rubber Company, Zanesville, Ohio. Pneumatic tire. No. 55,141; May 11; v. 274; p. 362.
Stetson, John P., New York, N. Y., assignor to H. D. Beach Company, Coshocton, Ohio. Display-stand. No. 55,098; May 4; v. 274; p. 151.
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Sturgeon, William H., Ben Avon, Pa. Automobile-headlight lens. Nos. 55,337–8; May 25; v. 274; p. 787.
Sullivan, Mae F., Duluth, Minn. Child's sled. No. 55,099; May 4; v. 274; p. 151.
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Susquehanna Silk Mills. (See Dommenge, Harry F., Jr., assignor.)
Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)
Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)
Susquehanna Silk Mills. (See Reith, William G., assignor.)
Tabara, Joseph, Woodhaven, N. Y. Toy. No. 55,083; May 4; v. 274; p. 148.
Talbot, Vernon, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Ice-cream scoop. No. 55,215; May 18; v. 274; p. 563.
Taylor, Harry A., New York, N. Y. Glove. No. 55,339; May 25; v. 274; p. 787.
Tenney, John, Jr., Plainfield, N. J. Tire. No. 55,100; May 4; v. 274; p. 151.
Tenney, John, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation. Tire. No. 55,216; May 18; v. 274; p. 563.
Thomson, Milton O., Boston, assignor, by mesne assignments, of one-half to D. B. Hill, Newton, Mass. Egg-beater. No. 55,340; May 25; v. 274; p. 788.
Thorpe, Walter, Mount Vernon, N. Y., assignor to The Electric Phonograph Corporation, New York, N. Y. Phonograph. No. 55,217; May 18; v. 274; p. 563.
Tinsman, Edgar A., assignor to The Standard Tire Company, Willoughby, Ohio. Tire. No. 55,142; May 11; v. 274; p. 362.
Toomey, John J., Chicago, Ill., assignor to Rathbone, Sard & Co., Albany, N. Y. Combination coal and gas range. (Reissue.) Nos. 14,866–7; May 25; v. 274; pp. 768–9.
Torgeson, Clara, Radium, Minn. Serving-plate. No. 55,218; May 18; v. 274; p. 563.

Trump, Elno H., Barberton, Ohio. Elastic vehicle-tire. No. 55,101; May 4; v. 274; p. 151.
Ullman, Albert, assignor to Scott-Ullman Company, Cleveland, Ohio. Lighting-fixture. No. 55,341; May 25; v. 274; p. 788.
United States Glass Company. See Haley, Reuben, assignor.)
Van Bergh Silver Plate Company, The. (See Leavenworth, Seth H., assignor.)
Van Schrum, William H., Columbus, Ohio. Flying toy. No. 55,102; May 4; vol. 274; p. 151.
Van Wagner, Leo M., and J. A. Duffy, Far Rockaway, N. Y. Cushion sole-pad for boots and shoes. No 55,343; May 25; v. 274; p. 788.
Vester, Alfred, & Sons. (See Vester, Gustave J., assignor.)
Vester, Gustave J., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Sconce for a lighting-fixture or similar article. No. 55,342; May 25; v. 274; p. 788.
Victor, David E., assignor to Association of Army and Navy Stores, Inc., New York, N. Y. Badge. No. 55,344; May 25; v. 274; p. 788.
Vitanola Talking Machine Company. (See Schiff, Samuel S., assignor.)
Wallace, R., & Sons Manufacturing Company, The. (See Knott, Henry, assignor.)
Wallace, R., & Sons Mfg. Co. (See Talbot, Vernon, assignor.)
Warner Brothers Company, The. (See Warner, D. C., and Langhammer, assignors.)
Warner, De Ver C., and Frank L. Langhammer, assignors to The Warner Brothers Company, Bridgeport, Conn. Brassière-hook. No. 55,219; May 18; v. 274; p. 563.
Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. Nos. 55,345–6; May 25; v. 274; pp. 788–9.
Wear-Well Tire Company. (See Large, George C., assignor.)
Weber, Jacob H., Brooklyn, N. Y. Phonograph-cabinet. No. 55,220; May 18; v. 274; p. 564.
Weeks, Frank A., Plainfield, N. J. Loose-leaf-pad-calendar holder. No. 55,221; May 18; v. 274; p. 564.
Welsbach Company. (See Antrim, William D., assignor.)
Wentz, Jere L., Passaic, N. J. Dish or receptacle. No. 55,222; May 18; v. 274; p. 564.
Wescott, Fred A., Corning, N. Y. Motor-vehicle signal. Nos. 55,223–4; May 18; v. 274; p. 564.
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro and Aronson Inc., New York, N. Y. Plate for lighting-fixtures. No 55,347; May 25; v. 274; p. 789.
Whelan, Christopher C. (See Sedell, C. H., Whelan, and Belfry.)
Wiberley, Frank, Jamaica, assignor to Barthels Manufacturing Company, Glendale, N. Y. Tape. No. 55,348; May 25; v. 274; p. 789.
Wiersching, Edward H. and E. K., Binghamton, N. Y. Toothbrush-casing. No. 55,143; May 11; v. 274; p. 362.
Wiersching, Edward K. (See Wiersching, Edward H. and E. K.)
Williams, David C., Arlington, Mass. Talking-machine cabinet. No. 55,103; May 4; v. 274; p. 151.
Williams, Earl B. (See Rieg, B. E., and Williams.)
Williams, Ralph E., Los Angeles, Calif. Electric-lamp handle and supporting-bracket. No. 55,349; May 25; v. 274; p. 789.
Williams, Russell B., Bartlett, Kans. Pruning-tool. No. 55,350; May 25; v. 274; p. 790.
Williamson, Richard L., Oakland, Calif. Tractor. No. 55,225; May 18; v. 274; p. 564.
Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 55,104; May 4; v. 274; p. 152.
Willson, T. A., & Co. (See Willson, Frederick, assignor.)
Wilmarth, Frank L., Central Falls, R. I. Emblem, badge, pin, ornament, or similar article. No. 55,105; May 4; v. 274; p. 152.
Witcombe McGeachin & Co. (See Abolin, Harry T., assignor.)
Wolcott, Frank E., Hartford, Conn. Dish-washing machine. No. 55,351; May 25; v. 274; p. 790.
Wolper, Harry B., assignor to Nightingale Manufacturing Company, Chicago, Ill. Talking-machine cabinet. Nos. 55,226–7; May 18; v. 274; p. 565.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Searchlight. No. 55,106; May 4; v. 274; p. 152.
Worth, George E., Rochester, N. Y. Child's sleigh. No. 55,352; May 25; v. 274; p. 790.
Zeis, George J., Buffalo, N. Y. Inclosing casing for an automobile signal. No. 55,353; May 25; v. 274; p. 790.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. California hops. No. 131,977; May 4; v. 274; p. 195.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Vacuum-cleaners. No. 131,078; May 4; v. 274; p. 195.
Aberdeen Packing Co., Aberdeen, Wash. Canned salmon. No. 131,012; May 4; v. 274; p. 193.
Ace Manufacturing Company, St. Louis, Mo. Mechanical starting devices for automobiles. No. 130,596; May 4; v. 274; p. 181.
Adams, Eva, Sparta, Ill. Hair-tonics and hair-straightcuers. No. 131,277; May 11; v. 274; p. 399.
Adams, J. D., & Company, Indianapolis, Ind. Road-graders. No. 130,597; May 4; v. 274; p. 181.
Adams & Westlake Company, The, Chicago, Ill. Electrical apparatus. No. 131,393; May 18; v. 274; p. 601.
Agra Company, The, Detroit, Mich. Talcum and face powders, toilet waters, &c. No. 131,685; May 25; v. 274; p. 829.
Alcardi, James A., & Sons, Boston, Mass. Prepared food products. No. 131,686; May 25; v. 274; p. 829.
Air-O-Flex Automobile Corporation, Detroit, Mich. Automobiles, automobile-trucks, and suspension-cylinders therefor. Nos. 131,687–8; May 25; v. 274; p. 829.
Aktiebolaget Gyro, Stockholm, Sweden. Machine-tools, transmission-gears, and parts thereof. No. 131,474; May 18; v. 274; p. 603.
Alaska Salmon & Herring Packers, Inc., Seattle, Wash. Canned salmon and herring. No. 130,598; May 4; v. 274; p. 181.
Albany Chemical Company, Albany, N. Y. Aspirin and photo-engraving chemicals. No. 131,392; May 18; v. 274; p. 601.
Albany Chemical Company, Albany, N. Y. Fluid for priming and starting internal-combustion engines. No. 131,394; May 18; v. 274; p. 601.
Albertson & Company, Sioux City, Iowa. Valve-grinders, valve-seat reamers, &c. No. 130,599; May 4; v. 274; p. 181.
Alforth, Alma R., Chicago, Ill. Candies. No. 130,600; May 4; v. 274; p. 181.
Alling and Cory Co., Rochester, N. Y. Wrapping-paper. No. 131,104; May 4; v. 274; p. 193.
Alling, Leon B., Plainfield, N. J. Hose. No. 130,601; May 4; v. 274; p. 181.
Alling, Leon B., Plainfield, N. J. Hose. No. 131,013; May 4; v. 274; p. 193.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting machinery. No. 130,602; May 4; v. 274; p. 181.
All-Qual-Sweets Co. Inc., Chicago, Ill. Confectionery—namely, chocolates. No. 131,891; May 25; v. 274; p. 835.
Alpine Co., New York, N. Y. Carbonated non-alcoholic maltless non-cereal beverage. No. 131,690; May 25; v. 274; p. 829.
Alpine Co., Inc., New York, N. Y. Ginger-ale, cream-soda, sarsaparilla, and other fruit-flavored non-alcoholic non-cereal beverages. No. 131,689; May 25; v. 274; p. 829.
Amalgamated Paint Co., New York, N. Y. Anticorrosive, antifouling, and mixed paints. No. 131,691; May 25; v. 274; p. 829.
American Abrasive Company, Westfield, Mass. Abrasives. No. 130,603; May 4; v. 274; p. 181.
American Agricultural Chemical Co., New York, N. Y. Guano. No. 131,692; May 25; v. 274; p. 829.
American Aniline Products, Inc., New York, N. Y. Dyes. No. 131,395; May 18; v. 274; p. 601.
American Bosch Magneto Corporation, Springfield, Mass. Magneto-electric generators and parts thereof. No. 131,015; May 4; v. 274; p. 193.
American Bureau of Engineering, Inc., Chicago, Ill. Voltmeters, armature-testers, &c. No. 130,604; May 4, v. 274; p. 181.
American Commercial Car Co., Detroit, Mich. Automobile-trucks. No. 131,016; May 4; v. 274; p. 193.
American Cotton Oil Company, The, Union township, Hudson county, N. J., and New York, N. Y. Edible vegetable-oil. No. 131,396; May 18; v. 274; p. 601.
American Fire Prevention Bureau, New York, N. Y. Thermostatically-operated electric switches. No. 131,397; May 18; v. 274; p. 601.
American Hard Rubber Company, Hempstead, N. Y. Combs and buttons. No. 130,605; May 4; v. 274; p. 181.
American Hard Rubber Company, Hempstead and New York, N. Y. Combs for dressing, ornamenting, and cleaning the hair and buttons for wearing-apparel. Nos. 131,017–18; May 4; v. 274; p. 193.
American Import Co., The, San Francisco, Calif. Clothing. No. 130,606; May 4; v. 274; p. 181.
American Lady Corset Company, Detroit, Mich. Corsets. No. 131,019; May 4; v. 274; p. 193.
American La France Fire Engine Co., Inc., Elmira, N. Y. Clothing. No. 130,607; May 4; v. 274; p. 181.
American Locomotive Company, Schenectady, and New York, N. Y. Steam-engine reverse-gear. No. 131,278; May 11; v. 274; p. 399.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine of vegetable fiber. No. 130,608; May 4; v. 274; p. 181.
American Non-Ferrous Metals Corporation, Chester, Pa. Bearing metal. No. 130,609; May 4; v. 274; p. 181.

American Optical Company, Southbridge, Mass. Ophthalmic lenses. No. 130,610; May 4; v. 274; p. 181.
American Optical Company, Southbridge, Mass. Optical goods and parts thereof and measuring appliances. No. 131,693; May 25; v. 274; p. 829.
American Overgaiter Co., Baltimore, Md. Overgaiters. No. 130,611; May 4; v. 274; p. 181.
American Paper Exports, Inc., New York, N. Y. Writing, printing, and wrapping papers and mailing-envelops. No. 131,398; May 18; v. 274; p. 601.
American Piano Company, New York, N. Y. Pianos. No. 131,399; May 18; v. 274; p. 601.
American Pop Corn Works, Inc., Boston, Mass. Popcorn confections. No. 131,020; May 4; v. 274; p. 193.
American Pozzolana Company, Indianapolis, Ind. Cement, stucco, and plaster. No. 130,612; May 4; v. 274; p. 181.
American Products Co., Omaha, Nebr. Foods and ingredients of foods. No. 136,613; May 4; v. 274; p. 181.
American Pure Food Process Co., Baltimore, Md. Jar-capping machines. No. 131,400; May 18; v. 274; p. 601.
American Steel Export Company, New York, N. Y. Electrical apparatus and supplies. No. 130,614; May 4; v. 274; p. 181.
American Steel Export Company, New York, N. Y. Cordage. No. 131,802; May 25; v. 274; p. 835.
American Stores Company, Philadelphia, Pa. Ginger-ale, sarsaparilla, and root-beer. No. 131,401; May 18; v. 274; p. 601.
American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar for use as a food. No. 131,021; May 4; v. 274; p. 193.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. Nos. 130,615–16; May 4; v. 274; p. 181.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 130,617; May 4; v. 274; p. 181.
American Tool & Machine Co., Boston, Mass. Machinery and tools. No. 131,402; May 18; v. 274; p. 601.
American Trading Company, New York, N. Y. Cotton blankets and flannels in the piece and made of cotton. No. 131,022; May 4; v. 274; p. 193.
American Twine Co., Inc., New York, N. Y. Twine. No. 130,618; May 4; v. 274; p. 181.
American Webbing Manufacturers Export Corporation, New York, N. Y. Elastic and non-elastic webbings. No. 131,403; May 18; v. 274; p. 601.
American Window Glass Company, Pittsburgh, Pa. Window and picture glass. No. 131,893; May 25; v. 274; p. 835.
American Writing Paper Company, Holyoke, Mass. Papeterie-papers. Nos. 131,694–6; May 25; v. 274; p. 829.
American Writing Paper Company, Holyoke, Mass. Papeterie-papers. Nos. 131,698–9; May 25; v. 274; p. 829.
American Writing Paper Company, Holyoke, Mass. Writing and printing paper. No. 131,697; May 25; v. 274; p. 829.
Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, scoops. No. 131,404; May 18; v. 274; p. 601.
Anchor Webbing Co., Pawtucket, R. I. Webbings. No. 130,619; May 4; v. 274; p. 181.
Anti-Bacilli Company, St. Louis, Mo. Mouthpiece attachments for the transmitters of telephones. No. 131,023; May 4; v. 274; p. 194.
Anti-Pyorrhea Chemical Company, St. Louis, Mo. Compositions for fitting false teeth. No. 130,620; May 4; v. 274; p. 181.
Anzac Company, Boston, Mass. Malt beverages. No. 131,700; May 25; v. 274; p. 829.
Anzac Company, Boston, Mass. Non-alcoholic syrups. No. 131,701; May 25; v. 274; p. 829.
Apsley Rubber Company, Hudson, Mass. Canvas outing-shoes. No. 130,621; May 4; v. 274; p. 181.
Archbold Manufacturing Corporation, Rochester, N. Y. Syrup to be used as a food. No. 130,622; May 4; v. 274; p. 182.
Arctic Ice & Coal Co., Greensboro, N. C. Ice-cream and ices. No. 131,024; May 4; v. 274; p. 194.
Argonne Motor Car Company, Jersey City, N. Y. Automobiles, automobile-radiators, and wheel-hub caps. No. 131,025; May 4; v. 274; p. 194.
Armstrong Cork Company, Pittsburgh, Pa. Composition soles and heels for boots and shoes. Nos. 130,624–5; May 4; v. 274; p. 182.
Arrow Products Co., Peoria, Ill. Non-alcoholic non-intoxicating maltless non-cereal beverage-punch. No. 131,405; May 18; v. 274; p. 601.
Arto Co., The, Orange, N. J. Talking-machine records and music-roll ends. No. 131,702; May 25; v. 274; p. 829.
Aspegren & Company, New York, N. Y. Edible oils. No. 130,627; May 4; v. 274; p. 182.
Aspegren & Co., New York, N. Y. Shortening and frying medium. No. 131,026; May 4; v. 274; p. 194.
Asphalt Manufacturing Company, The, Lancaster, Ohio. Slate-surfaced roofings and shingles. No. 130,628; May 4; v. 274; p. 182.
Atlantic Insulated Wire & Cable Company, Jersey City, N. J., and Stamford, Conn. Electric wire. No. 130,629; May 4; v. 274; p. 182.
Atlantic Refining Company, Philadelphia, Pa. Kerosene and candles. Nos. 131,703–4; May 25; v. 274; p. 829.
Aubry, Justin E., Springfield, Mass. Bread, cakes, pies, and pastry. No. 131,027; May 4; v. 274; p. 194.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 131,279; May 11; v. 274; p. 399.
Austin, Nichols & Company Incorporated, Brooklyn and New York, N. Y. Certain named foods. No. 130,630; May 4; v. 274; p. 182.
Automatic Electric Sterilizer Co., The, Hamilton, Ohio. Electric sterilizers. No. 131,028; May 4; v. 274; p. 194.
B. & H. Fibre Mfg. Co., Chicago, Ill. Talking-machine needles. No. 130,719; May 4; v. 274; p. 184.
B. V. D. Company, The, New York, N. Y. Underwear. No. 130,663; May 4; v. 274; p. 183.
"Babs" Manufacturing Corporation, Philadelphia, Pa. Walking doll. No. 130,631; May 4; v. 274; p. 182.
Bachrach, William, Oakland, Calif. Non-alcohol non-cereal maltless beverages, and non-alcoholic fruit syrup for making the same. No. 131,705; May 25; v. 274; p. 829.
Backé, Tod, Brooklyn, N. Y. Candies. No. 131,029; May 4; v. 274; p. 194.
Bake-Rite Oven Mfg. Company, San Francisco, Calif. Bread-making machinery and accessories. No. 131,407; May 18; v. 274; p. 601.
Baker, George W., Dallas, Tex. Waterproof dressing for leather, &c. No. 131,030; May 4; v. 274; p. 194.
Baker, H. L., & Co., Rochester, N. Y. Toilet preparations. No. 131,706; May 25; v. 274; p. 829.
Bakke, A., Omaha, Nebr. Bread. No. 131,031. May 4; v. 274; p. 194.
Balin, Solomon, New York, N. Y. Clothing. No. 131,032; May 4; v. 274; p. 194.
Balin, Solomon, New York, N. Y. Sleeping-garments. No. 131,033; May 4; v. 274; p. 194.
Balston, W. & R. Limited, Maidstone, England. Filter-paper. No. 131,707; May 25; v. 274; p. 829.
Barber & Bennett, Inc., Albany, N. Y. Stock, horse, dairy, and poultry feed. No. 130,633; May 4; v. 274; p. 182.
Barva Heel & Tire Factory, Inc., Fort Wayne, Ind. Rubber heels. No. 131,034; May 4; v. 274; p. 194.
Bauer Chemical Co. Inc., New Orleans, La. Corn medicine and foot-powder. No. 131,280; May 11; v. 274; p. 399.
Baum & Schoel, Waterloo, Iowa. Doughnut-machines. No. 131,409; May 18; v. 274; p. 601.
Beall, Edward, Los Angeles, Calif. Combination of herbs for use in the treatment of certain named diseases. No. 131,281; May 11; v. 274; p. 399.
Beaver Machine & Tool Co., Inc., Newark, N. J. Milking-machines. No. 131,282; May 11; v. 274; p. 399.
Beck, Mitchel, Brooklyn, N. Y. Canned fish. No. 130,634; May 4; v. 274; p. 182.
Becton, Dickinson & Co., Rutherford, N. J. All-cotton elastic bandage. No. 130,635; May 4; v. 274; p. 182.
Bee Bee Confection Company, The, Dayton, Ohio. Chewing-gum. No. 131,410; May 18; v. 274; p. 601.
Beich, Paul F., Co., Bloomington, Ill. Candy. No. 130,636; May 4; v. 274; p. 182.
Beich, Paul F., Company, Bloomington, Ill. Salted peanuts and topping for sundaes, &c. No. 131,283; May 11; v. 274; p. 399.
Beinhauer Bros. Candy Co., New York, N. Y. Candy. No. 131,035; May 4; v. 274; p. 194.
Belding Bros. & Co., New York, N. Y. Silks and satins in the piece. No. 131,284; May 11; v. 274; p. 399.
Bell & Howell Co., Chicago, Ill. Motion-picture producing apparatus. No. 130,637; May 4; v. 274; p. 182.
Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 131,036; May 4; v. 274; p. 194.
Beller, Louis S., New York, N. Y. Stripping and bleaching powders and remover of colors from fabrics. No. 131,708; May 25; v. 274; p. 829.
Bentley & Twohey, New York, N. Y. Silk piece goods. No. 131,037; May 4; v. 274; p. 194.
Benton, Theodore, Roff, Okla. Blight-exterminator. No. 131,411; May 18; v. 274; p. 601.
Berbecker & Rowland Manufacturing Company, Waterville, Conn. Metallic articles of upholstery and cabinet hardware. No. 131,038; v. 274; p. 194.
Billings & Spencer Company, The, Hartford, Conn. Tools and parts thereof. No. 130,638; May 4; v. 274; p. 182.
Birk Brothers Brewing Company, Chicago, Ill. Non-intoxicating beverage. No. 131,285; May 11; v. 274; p. 399.
Bishop & Company, Los Angeles, Calif. Candies, cocoa, jams, &c. No. 130,639; May 4; v. 274; p. 182.
Bittner, G. C., Co., The, Toledo, Ohio. Toilet preparation. No. 131,039; v. 274; p. 194.
Bixler Baking Co., Youngstown, Ohio. Bread. No. 130,640; May 4; v. 274; p. 182.
Black Swan Company, Waseca, Minn. Electric-lighting plants. No. 131,412; May 18; v. 274; p. 601.
Black Swan Company, Waseca, Minn. Electric-lighting plants. No. 131,709; May 25; v. 274; p. 829.
Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, tablets, blank books. No. 131,041; May 4; v. 274; p. 194.
Blatchford Calf Meal Company, Waukegan, Ill. Compound ground feed. No. 130,641; May 4; v. 274; p. 182.
Blawn, James F., Brooklyn, N. Y. Cleaning fluid for polishing metal surfaces. No. 131,042; May 4; v. 274; p. 194.
Blessing, Harry B., Jersey City, N. J. Ready-mixed and enamel paints. No. 131,894; May 25; v. 274; p. 835.
Block Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. Nos. 130,642–3; May 4; v. 274; p. 182.

Bloom Flusher Co., Tiffin, Ohio. Oil-cup. No. 130,644; May 4; v. 274; p. 182.
Blublaze Motor Specialties Corp., New York, N. Y. Ignition-timers. No. 130,645; May 4; v. 274; p. 182.
Blue Bird Manufacturing Company, St. Louis, Mo. Dish-washing and sewing machines. No. 131,413; May 18; v. 274; p. 601.
Boedeker & Co., Cincinnati, Ohio. Beverage, non-alcoholic. No. 131,414; May 18; v. 274; p. 601.
Boker, H., & Co. Inc., New York, N. Y. Steel balls for ball-bearings. No. 130,632; May 4; v. 274; p. 182.
Boldemann Chocolate Company, San Francisco, Calif. Sweet chocolate. No. 130,646; May 4; v. 274; p. 182.
Bolton, John W., and Sons, Inc., Lawrence, Mass. Cutlery, machinery, and tools and parts thereof. No. 131,710; May 25; v. 274; p. 829.
Bonat, Samuel & Bro., New York, N. Y. Hair-nets. No. 131,415; May 18; v. 274; p. 601.
Bonebright, Gertrude R., Grand Rapids, Mich. Supporters for diapers. No. 131,043; May 4; v. 274; p .194.
Bong, C. Harry, Chicago, Ill. Lotions for soothing and treating irritations of the skin. No. 131,416; May 18; v. 274; p. 601.
Borden Company, The, Jersey City, N. J., and New York, N. Y. Foods and ingredients of foods. No. 130,647; May 4; v. 274; p. 182.
Borden Company, The, Warren Ohio. Diestocks, hand pipe-cutters, &c. No. 131,286; May 11; v. 274; p. 399.
Borgfeldt, George, & Co., New York, N. Y. Toilet powder. No. 131,711; May 25; v. 274; p. 829.
Bosch, Herman J., New York, N. Y. Nail-polish, brilliantine, and cuticle-cream. No. 131,418; May 18; v. 274; p. 601.
Boston Auto Gage Company, Boston, Mass. Lubricating and grease guns. No. 130,648; May 4; v. 274; p. 182.
Boston Food Products Company, East Boston, Mass. Canned meats, soup, sauces, sausages, &c. No. 130,649; May 4; v. 274; p. 182.
Bourjois, A., & Co., Inc., New York, N. Y. Tooth, nail, hair, bath, and face brushes. No. 130,650; May 4; v. 274; p. 182.
Boyce Extract Co., Inc., New York, N. Y. Non-intoxicating beverage. No. 131,419; May 18; v. 274; p. 601.
Boyden Shoe Manufacturing Company, Newark, N. J. Shoes of leather, leather and fabric, and rubber and fabric. No. 131,712; May 25; v. 274; p. 830.
Brach, E. J., and Sons, Chicago, Ill. Candies. No. 131,287; May 11; v. 274; p. 399.
Brackett, Ernest R., Dallas, Tex. Automobile-lenses. No. 131,044; May 4; v. 274; p. 194.
Bradley, Milton, Company, Springfield, Mass. Games of jackstraws. No. 131,045; May 4; v. 274; p. 194.
Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. Nos. 131,046–52; May 4; v. 274; p. 194.
Brecht Candy Company, The, Denver, Colo. Chocolates. No. 130,651; May 4; v. 274; p. 182.
Brecht Candy Company, The, Denver, Colo. Chocolates. Nos. 131,053–5; May 4; v. 274; p. 194.
Brewster-Goldsmith Corp. Inc., The, New York, N. Y. Spark-plugs. No. 131,420; May 18; v. 274; p. 601.
Brewster-Goldsmith Corp., Inc., The, New York, N. Y. Spark-plugs. No. 131,713; May 25; v. 274; p. 830.
Bridgeport Brass Company, Bridgeport, Conn. Copper, brass, and bronze ingots, rods, sheets, &c. No. 131,056; May 4; v. 274; p. 195.
Bridgeport Brass Company, Bridgeport, Conn. Bronze ingots, castings, rods, &c. No. 131,421; May 18; v. 274; p. 602.
Brintnall, Leslie C., Los Angeles, Calif. Dolls. No. 130,652; May 4; v. 274; p. 182.
Brown, Charles H., Paint Company, The, Brooklyn, N. Y. Prepared calcimine, cold-water, oil, and enamel paints and varnishes. No. 131,714; May 25; v. 274; p. 830.
Brown Instrument Company, The, Philadelphia, Pa. Protecting-tubes for pyrometers. No. 130,653; May 4; v. 274; p. 182.
Brown, L. L., Paper Company, Adams, Mass. Ledger, record, linen, bond, and writing papers. No. 130,654; May 4; v. 274; p. 182.
Browning, C. A., Co. Boston, Mass. Millinery. No. 130,655; May 4; v. 274; p. 183.
Brownstein-Louis Company, Los Angeles, Calif. Men's dress, &c., shirts. No. 130,656; May 4; v. 274; p. 183.
Brownstein-Louis Company, Los Angeles, Calif. Overalls. No. 130,658; May 4; v. 274; p. 183.
Bruns, Armin R., Washington, Iowa. Field, garden, and flower seeds. No. 130,623; May 4; v. 274; p. 182.
Bryant, Augustus H., Glen Ridge, N. J. Edge tools—viz., razors. No. 130,661; May 4; v. 274; p. 183.
Buchtel, Robert E., Omaha, Nebr. Insecticide. No. 131,715; May 25; v. 274; p. 830.
Buckeye Nurseries, Tampa, Winterhaven, Lucerne Park, and Howey, Fla. Fresh oranges. No. 130,853; May 4; v. 274; p. 188.
Bullen, Joseph W., Folcroft, Pa. Liquid compounds used as floor-oils. No. 131,716; May 25; v. 274; p. 830.
Burger, Iwan, Inc., New York, N. Y. Foods and ingredients of foods. No. 131,057; May 4; v. 274; p. 195.
Burlasky, Louis, New York, N. Y. Sewing-machines and parts thereof. No. 131,288; May 11; v. 274; p. 399.
Burton Bros. & Co., New York, N. Y. Napped cotton shirting. No. 131,717; May 25; v. 274; p. 830.
Buscaglia, A. & C., Co., Buffalo, N. Y. Olive-oil and tomato paste. No. 130,662; May 4; v. 274; p. 183.
Byrne, Joseph F., Omaha, Nebr. Hosiery for women. Nos. 131,058–9; May 4; v. 274; p. 195.
Byron Weston Co., Dalton, Mass. Machine-bookkeeping paper. No. 130,990; May 4; v. 274; p. 192.
California Walnut Sauce Co., Los Angeles, Calif. Walnut sauce and pickled walnuts. No. 130,664; May 4; v. 274; p. 183.
California Wine Association, San Francisco, Calif. Grape-juice. No. 131,422; May 18; v. 274; p. 602.
Campe Corporation, The, New York, N. Y. Hosiery. No. 131,718; May 25; v. 274; p. 830.
Candy Cake Corporation, Wilmington, Del., and Newark, N. J. Cakes and crackers. No. 131,060; May 4; v. 274; p. 195.
Capell, Western L., Omaha, Nebr. Medical compound for the treatment of syphilis. No. 131,423; May 18; v. 274; p. 602.
Carlyle Milling Company, Carlyle, Ill. Self-rising wheat-flour. No. 131,061; May 4; v. 274; p. 195.
Carr Fastener Company, Cambridge, Mass. Snap-fasteners. No. 131,895; May 25; v. 274; p. 835.
Carreras, Alfonso, London, England. Tooth-paste. No. 131,424; May 18; v. 274; p. 602.
Carroll, T. L., Company, Gothenburg, Nebr. Wheat-flour. No. 130,665; May 4; v. 274; p. 183.
Carson Petroleum Company, Chicago, Ill. Petroleum products. No. 131,719; May 25; v. 274; p. 830.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Nainsooks, muslins, longcloth, and cambrics. No. 130,666; May 4; v. 274; p. 183.
Carteret Silk Company, Jersey City, N. J. Underwear, petticoats, and outer waists. No. 130,667; May 4; v. 274; p. 183.
Case, J. I., Threshing Machine Company, Racine, Mich. Machinery. No. 131,289; May 11; v. 274; p. 399.
Catterlin Francis J., Long Beach, Calif. Non-alcoholic non-cereal maltless beverage. No. 131,425; May 18; v. 274; p. 602.
Celro-Kola Co., Portland, Oreg. Non-alcoholic beverage. No. 131,426; May 18; v. 274; p. 602.
Central Auto Supply Co., Washington, D. C. Furniture and automobile polishes. No. 131,720; May 25; v. 274; p. 830.
Century Rubber Stamp Works, New York, N. Y. Rubber stamps, hand stamping and marking devices. No. 131,427; May 18; v. 274; p. 602.
Chamberlain, P. B., Company, St. Louis, Mo. Flavoring extracts for foods. No. 131,062; May 4; v. 274; p. 195.
Charms Company, Newark, N. J. Candy and fruit tablets. Nos. 130,669–70; May 4; v. 274; p. 183.
Chase, L. C., & Co., Boston, Mass. Women's outer garment or wrap. No. 131,721; May 25; v. 274; p. 830.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flat-irons. No. 130,671; May 4; v. 274; p. 183.
Chicago Flexible Shaft Company,, Chicago, Ill. Electric flat-irons. Nos.131,063–4; May 4; v. 274; p. 195.
Chicago Pneumatic Tool Company, Chicago, Ill. Electric track and spindle drills, grinders, hammer-drills, &c. No 131,065; May 4; v. 274; p. 195.
Chicago Steel Post Company, Chicago, Ill. Metallic fence-posts. No. 131,290; May 11; v. 274; p. 399.
Chicago Tanning Co., Chicago, Ill. Horse-leather. No. 130,672; May 4; v. 274; p. 183.
Chill-O Company, Chicago, Ill. Non-alcoholic non-intoxicating maltless non-cereal beverage. No. 131,430; May 18; v. 274; p. 602.
Childs, W. H., & Son, New York, N. Y. Cotton, linen, silk, &c., piece goods and velvets and velveteens in the piece, Nos. 131,428–9; May 18; v. 274; p. 602.
China & Japan Trading Company, Limited, New York, N. Y. Woolen and cotton piece goods. No. 131,722; May 25; v. 274; p. 830.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 130,673; May 4; v. 274; p. 183.
Chipman Knitting Mills, Easton, Pa. Hosiery. No. 131,066; May 4; v. 274; p. 195.
Clark, Fred G., Co., The, Cleveland, Ohio. Lubricating oils and greases. No. 131,723; May 25; v. 274; p. 830.
Clayton Chemical Co., New York, N. Y. A preparation for the relief of inflammation and pain by cutaneous absorption. No. 131,431; May 18; v. 274; p. 602.
Cloud-Thomas Co., Yakima, Wash. Fresh fruits. No. 130,674; May 4; v. 274; p. 183.
Coal Conservation Company, Boston, Mass. Substance for treating coal. No. 131,291; May 11; v. 274; p. 399.
Coccaro, A. J., & Co., New York, N. Y. Clothing. No. 131,724; May 25; v. 274; p. 830.
Cody, John P., Evansville, Ind. Caps and hats. No. 130,675; May 4; v. 274; p. 183.
Coe-Mortimer Company, New York, N. Y. Fertilizer. No. 131,725; May 25; v. 274; p. 830.
Cohen, Goldman & Co. Inc., New York, N. Y. Men's and children's outer garments. No. 131,067; May 4; v. 274; p. 195.
Cohn, Doris, New York, N. Y. Ladies' leather shoes. No. 130,676; May 4; v. 274; p. 183.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. No. 131,479; May 18; v. 274; p. 603.
Collier, J. Homer, Dawson, Ga. Liquid aspirin. No. 131,432; May 18; v. 274; p. 602.
Collinsville Zinc Corporation, Collinsville, Ill. Sulfuric acid. No. 131,292; May 11; v. 274; p. 399.

Collinsville Zinc Corporation, Collinsville, Ill. Lithopone. No. 131,726; May 25; v. 274; p. 830.
Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 130,677; May 4; v. 274; p. 183.
Colorado Milling & Elevator Co., The, Denver and Pueblo, Colo. Wheat-flour. No. 131,433; May 18; v. 274; p. 602.
Columbia Manicure Mfg. Co., New York, N. Y. Manicuring implements. No. 130,678; May 4; v. 274; p. 183.
Columbus Dental Manufacturing Company, The, Columbus, Ohio. Artificial teeth. No. 130,679; May 4; v. 274; p. 183.
Commercial Shirt Company, New York, N. Y. Dress shirts. No. 131,068; May 4; v. 274; p. 195.
Commonwealth Motors Co., Chicago, Ill. Pleasure-automobiles. No. 131,069; May 4; v. 274; p. 195.
Commonwealth Steel Company, St. Louis, Mo. Railway-cars and parts thereof. No. 130,680; May 4; v. 274; p. 183.
Community Motion-Picture Bureau, New York, N. Y. Motion-picture films. No. 131,434; May 18; v. 274; p. 602.
Compagnie Francaise Des Boutons De La Marque, J. P., Paris, France. Shoe-buttons. No. 131,896; May 25; v. 274; p. 835.
Conceição, Julio, Santos, Brazil. Machines for injecting fluid into the ground for exterminating insects. No. 130,681; May 14; v. 274; p. 183.
Conkey, G. E., Co., The, Cleveland, Ohio. Starting feed for chicks. Nos. 130,682–3; May 4; v. 274; p. 183.
Conklin, Horace E., Binghamton, N. Y. Seed-corn, grass and field seeds. No. 130,684; May 4; v. 274; p. 183.
Connecticut Telephone & Electric Company, Incorporated, The, Meriden, Conn. Detectors for wireless-telegraph apparatus. No. 130,685; May 4; v. 274; p. 183.
Connery, Edwin E., Minneapolis, Minn. Fresh fruit in packages and barrels. No. 131,293; May 11; v. 274; p. 399.
Consolidated Sales Company, Centralia, Mo. Garden preparation for killing bugs, worms, and vermin. No. 134,435; May 18; v. 274; p. 602.
Converse & Company, New York, N. Y. Towels and toweling. No. 131,727; May 25; v. 274; p. 830.
Converse Rubber Shoe Co., Malden, Mass. Boots and shoes of rubber, canvas, or combination. No. 130,686; May 4; v. 274; p. 183.
Converse Rubber Shoe Company, The, Malden, Mass. Boots or shoes made of or containing rubber. No. 131,728; May 25; v. 274; p. 830.
Cooper Underwear Company, Kenosha, Wis. Underwear. No. 131,070; May 4; v. 274; p. 195.
Cormond, Francois, San Francisco, Calif. Bleaching fluid. No. 131,437; May 18; v. 274; p. 602.
Corning Glass Works, Corning, N. Y. Condensing-lenses for projecting apparatus. No. 131,436; May 18; v. 274; p. 602.
Corno Mills Company, St. Louis, Mo. Rolled oats. No. 130,687; May 4; v. 274; p. 183.
Corrasanti Chemical Co. Inc., Newark, N. J. Boiler compounds. No. 131,294; May 11; v. 274; p. 399.
Coss, John H., Mansfield, Ohio. Sieves and chaffers for use in threshing-machines. No. 131,438; May 18; v. 274; p. 602.
Cowden Manufacturing Co., St. Paul, Minn. Overalls. No. 130,688; May 4; v. 274; p. 184.
Crane, Clarence A., Cleveland, Ohio. Candy. No. 131,071; May 4; v. 274; p. 195.
Crane, Clarence A., Cleveland, Ohio. Chocolates. No. 131,729; May 25; v. 274; p. 830.
Crawford, McGregor and Canby Company, Dayton, Ohio. Golf-clubs. No. 130,689; May 4; v. 274; p. 184.
Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables. No. 131,295; May 11; v. 274; p. 399.
Crossman, George J., Newark, N. J. Music-roll ends. No. 131,730; May 25; v. 274; p. 830.
Crown Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls. No. 130,690; May 4; v. 274; p. 184.
Crown Perfumery Company, New York, N. Y. Cosmetics for the hair, perfumes, &c. No. 131,731; May 25; v. 274; p. 830.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blocks, forgings, &c. Nos. 130,691–2; May 4; v. 274; p. 184.
Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, sheets, &c. No. 131,439; May 18; v. 274; p. 602.
Crystaline Salt Co., Jersey City, N. J., and Boston, Mass. Salt. No. 131,732; May 25; v. 274; p. 830.
Cummings, Charles C., St. Louis, Mo. Laundry soaps, soap tablets, and rug cleaners. No. 131,072; May 4; v. 274; p. 195.
D. A. P. Confectionery, Inc., New York, N. Y. Candies and chocolates. No. 130,693; May 4; v. 274; p. 184.
Daljar Mfg. Co., Boston, Mass. Lubricating oils and greases and lubricating cutting compounds. No. 131,733; May 25; v. 274; p. 830.
Dantzler, Mortimer O., Orangeburg, S. C. Nuts. No. 131,073; May 4; v. 274; p. 195.
Daski, Peter, Ottawa, Canada. Hair-tonic. No. 131,440; May 18; v. 274; p. 602.
Daum Rogers Spritzer Co., New York, N. Y. Hosiery. No. 130,694; May 4; v. 274; p. 184.
David, Geo. M., Barre, Vt. Laundry-tablets. No. 131,074; May 4; v. 274; p. 195.
Davies, William, Company, Limited, Chicago, Ill. Bacon, hams, lard, &c. No. 130,695; May 4; v. 274; p. 184.
Davis, Elroy R., Paris, Me. Bolt-hooks and ice-tongs. No. 131,296; May 11; v. 274; p. 399.
Day, Horace L., Company, New York, N. Y. Sugar. No. 131,441; May 18; v. 274; p. 602.
Delahanty, Edmund J., Fall River, Mass. Non-alcoholic beverages and syrups for making the same. No. 131,734; May 25; v. 274; p. 830.
Delaware Electric & Supply Co., Wilmington, Del. Composition roofing and covering for pipes. No. 131,075; May 4; v. 274; p. 195.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. No. 131,076; May 4; v. 274; p. 195.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes. No. 131,898; May 25; v. 274; p. 835.
De Luca, John A., St. Helena, Md. Mayonnaise dressing, chilli-chow, and marshmallow preparation. No. 130,696; May 4; v. 274; p. 184.
Denny and Denny, Philadelphia, Pa. Perfumes, toilet waters, face-powders, &c. No. 131,297; May 11; v. 274; p. 399.
Denver Powerine Company, The, Denver, Colo. Gasolene. No. 131,899; May 25; v. 274; p. 835.
Derby, John H., Rockledge, Fla. Citrus fruits and avocados. No. 131,442; May 18; v. 274; p. 602.
Deshler Broom Factory, Deshler, Nebr. Brooms and whisk-brooms. Nos. 130,697–8; May 4; v. 274; p. 184.
Detroit Twist Drill Co., Detroit, Mich. Drills. No. 131,443; May 18; v. 274; p. 602.
Deutsche Conservierungsgesellschaft mit beschrankter Haftung, Marienfelde, near Berlin, Germany. Preservative compound for preserving articles of food. No. 131,444; May 18; v. 274; p. 602.
De Vilbiss Manufacturing Company, Toledo, Ohio. Powder-blowers for use in medicine and surgery. No. 130,699; May 4; v. 274; p. 184.
Devore, W. W., Cincinnati, Ohio. Coffee substitute. No. 131,735; May 25; v. 274; p. 830.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Parchmentized fiber, sheets, rods, tubes, and disks. No. 130,700; May 4; v. 274; p. 184.
Dinstman & Lasko, Inc., New York, N. Y. Watchcases. No. 131,445; May 18; v. 274; p. 602.
Disston, Henry, & Sons, Philadelphia, Pa. Magneto-files and tools for cleaning spark-plugs. No. 131,298; May 11; v. 274; p. 399.
Di-Testa Co., New Haven, Conn. Salve for scalp maladies. No. 131,299; May 11; v. 274; p. 399.
Divine, Dwight & Sons, Ellenville, N. Y. Pocket, pen, kitchen knives, &c. No. 130,706; May 4; v. 274; p. 184.
Divine, Dwight, & Sons, Ellenville, N. Y. Knives. No. 131,448; May 18; v. 274; p. 602.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. Nos. 131,079–87; May 4; v. 274; p. 195.
Dockendorff, J. E., & Co., Inc., New York, N. Y. Insulating materials for electrical purposes. No. 131,736; May 25; v. 274; p. 830.
Dollfus-Mieg & Cie, Societé Anonyme, Millhouse, Germany. Braids and passementerie. Nos. 131,088–92; May 4; v. 274; pp. 195–6.
Donovan, R. J., Co. of New York, Inc., New York, N. Y. Hardware and steam-fitting supplies. No. 131,737; May 25; v. 274; p. 830.
Dorris Milling Company, Nashville, Tenn. Wheat-flour. No. 131,093; May 4; v. 274; p. 196.
Driver-Harris Company, Harrison, N. J. Wire, rods, sheets, &c., composed of metals or alloys of metals. No. 131,300; May 11; v. 274; p. 399.
Driver-Harris Company, Harrison, N. J. Electrical goods. No. 131,738; May 25; v. 274; p. 830.
Driver-Harris Company, Harrison, N. J. Resistance material in the form of sheets, strips, &c. No. 131,739; May 25; v. 274; p. 830.
Droelle & Vital, Detroit, Mich. Puzzle. No. 130,701; May 4; v. 274; p. 184.
Drulard, Lee, Detroit, Mich. Wrenches and socket-wrench sets. No. 131,301; May 11; v. 274; p. 399.
Drum Medicine Company, The, Salisbury, N. C. Medicinal preparation for stomach, nerves, and liver. No. 130,702; May 4; v. 274; p. 184.
Dudcliff & Company, Chicago, Ill. Shoes. No. 131,094; May 4; v. 274; p. 196.
Duff Manufacturing Company, Pittsburgh, Pa. Drop-forged parts. No. 131,302; May 11; v. 274; p. 399.
Duffy, Leinster, New Bern, N. C. Medicinal remedy for chills, fevers, colds, &c. No. 131,446; May 18; v. 274; p. 602.
Duncan Coffee Co., Houston, Tex. Coffee. No. 130,703; May 4; v. 274; p. 184.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. High explosive of dynamite type. No. 130,704; May 4; v. 274; p. 184.
Dupuis Chemical Co., Los Angeles, Calif., and El Paso, Tex. Insecticide and germicide. No. 131,303; May 11; v. 274; p. 399.
Durfee, Lydia M., Springfield, Mass. Mechanical hair-extractor. No. 130,705; May 4; v. 274; p. 184.
Durling, Calvin J., Trenton, N. J. Ointment for lung congestion, croup, &c. No. 131,447; May 18; v. 274; p. 602.

Dymalkon Metals Corporation, New York, N. Y. Honorrolls, bas-reliefs, and memorial tablets. No. 130,707; May 4; v. 274; p. 184.
Dymalkon Metals Corporation, New York, N. Y. Architectural bronze-work for building exteriors and interiors. No. 131,095; May 4; v. 274; p. 196.
East Iron & Machine Co., The, Lima, Ohio. Mixing, kneading, and masticating machines. No. 131,450; May 18; v. 274; p. 602.
Eastern Felt Company, Winchester, Mass. Felt polishing-wheels. No. 131,900; May 25; v. 274; p. 830.
Eastern Fountain Co., Boston, Mass. Drinking-fountains and parts thereof for human use. No. 130,708; May 4; v. 274; p. 184.
Eaton, Alice, Atlantic City, N. J. Fudge and penochi, home-made. No. 131,901; May 25; v. 274; p. 836.
Eaton Rapids Woolen Mills, Eaton Rapids, Mich. Fabric puttees. No. 131,740; May 25; v. 274; p. 830.
Economou, Nickitas P., New York, N. Y. Olive-oil. No. 131,096; May 4; v. 274; p. 196.
Edgewater Steel Company, Pittsburgh, Pa. Steel castings and forgings. No. 131,741; May 25; v. 274; p. 830.
Egan, Ronan, Housman Company, Brooklyn, N. Y. Paints and painters' materials. No. 131,742; May 25; v. 274; p. 830.
Eile, Philip, New York, N. Y. Tobacco, cigars, and cigarettes. No. 130,709; May 4; v. 274; p. 184.
Elastowear Manufacturing Company, The, Cincinnati, Ohio. Girdles, brassières, hip-reducing corsets, &c. No. 130,710; May 4; v. 274; p. 184.
Elbe Motor Co., Los Angeles, Calif. Rear-sight mirrors for vehicles. No. 131,097; May 4; v. 274; p. 196.
Elder Manufacturing Co., St. Louis, Mo. Boys' and children's clothing. No. 131,098; May 4; v. 274; p. 196.
Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric apparatus and supplies. No. 131,099; May 4; v. 274; p. 196.
Electric Lamp & Products Co., Jersey City, N. J. Electric-lamp products. No. 131,451; May 18; v. 274; p. 603.
Electric Welding Machine Co., Detroit, Mich. Electric welding-machines. No. 131,743; May 25; v. 274; p. 831.
Electrified Water and Machine Company, Dallas, Tex. Water. No. 131,744; May 25; v. 274; p. 831.
Electro Silicon Co., New York, N. Y. Preparation for cleaning and polishing metals and glass. Nos. 131,100–101; May 4; v. 274; p. 196.
Embalmers' Supply Company, Westport, Conn. Embalming fluid. No. 131,453; May 18; v. 274; p. 603.
Emerson Phonograph Company, Inc., New York, N. Y. Phonograph-records. No. 131,902; May 25; v. 274; p. 836.
Emerson Shoe Company, The, Rockland, Mass. Leather boots and shoes. Nos. 130,711–13; May 4; v. 274; p. 184.
Emery Food Co., Chicago, Ill. Canned fruits and vegetables. No. 131,103; May 4; v. 274; p. 196.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 131,104; May 4; v. 274; p. 196.
Encore Hosiery Co., New York, N. Y. Hosiery. No. 131,748; May 25; v. 274; p. 831.
Enterprise Manufacturing Company, Atlanta, Ga. Middy-blouses and dresses for children, misses, and ladies. No. 131,102; May 4; v. 274; p. 196.
Equinox Mountain Spring, Inc., New York, N. Y. Ginger-ale. No. 131,454; May 18; v. 274; p. 603.
Essex Aniline Works, Inc., Boston, Mass. Dyestuffs. No. 131,455; May 18; v. 274; p. 603.
Estelle Company, The, Chicago, Ill. Dresses. No. 130,715; May 4; v. 274; p. 184.
Estes, E. B., & Sons, New York, N. Y. Worsted-winders. No. 131,105; May 4; v. 274; p. 196.
Evans Coal Company, The, Fort Wayne, Ind. Bituminous coal. No. 130,716; May 4; v. 274; p. 184.
Evans, John R., & Company, Philadelphia, Pa. Leather. No. 131,107; May 4; v. 274; p. 196.
Everett, Aughenbaugh & Co., Waseca, Minn. Bread. No. 131,108. May 4; v. 274; p. 196.
Fabian Hedges, Inc., New York, N. Y. Mallow topping for ice-cream, desserts, &c. No. 131,135; May 4; v. 274; p. 197.
Fafnir Bearing Co., New Britain, Conn. Antifriction-bearings, antifriction-bearing hanger-boxes, balls, and rollers, cages, &c. No. 131,109; May 4; v. 274; p. 196.
Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engines. No. 131,456; May 18; v. 274; p. 603.
Fairmont Creamery Company, The, Omaha, Nebr. Eggs. No. 131,305; May 11; v. 274; p. 400.
Farmer Bros., Los Angeles, Calif. Coffee, tea, spices, and flavoring extracts of pure vanilla, &c. No. 131,457; May 18; v. 274; p. 603.
Farmer, Thomas, Jr., New York, N. Y. Speedometers. No. 131,458; May 18; v. 274; p. 603.
Farrel Foundry & Machine Company, Ansonia, Conn. Machinery for sugar and other mills and parts thereof. No. 131,749; May 25; v. 274; p. 831.
Fats and Oils Service Company, Philadelphia, Pa. Vegetable and animal oils and fats. No. 131,459; May 18; v. 274; p. 603.
Faw, J. H., Inc., New York, N. Y. Wrenches. No. 130,717; May 4; v. 274; p. 184.
Fearless Products Manufacturing Corporation, The, Manhattan, Kans. Liquid carbon-remover. No. 131,306; May 11; v. 274; p. 400.
Federal Mfg. Co., Lynn, Mass. Solder. No. 130,718; May 4; v. 274; p. 184.
Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 131,307; May 11; v. 274; p. 400.
Federal Varnish Co., Chicago, Ill. Enamel paint, oil, and acid stains, coaters, &c. No. 131,750; May 25; v. 274; p. 831.
Feldstein, Morris, New York, N. Y. Hats and caps for men and boys. No. 131,751; May 25; v. 274; p. 831.
Fessler, William R., Kansas City, Kans. Pharmaceutical preparation. No. 131,460; May 18; v. 274; p. 603.
Feuser, Conrad, Bloomfield, N. J. Radiator-valves and radiator check-valves. No. 131,110; May 4; v. 274; p. 196.
Fingl, Anton W., Chicago, Ill. Liniments. No. 131,461; May 18; v. 274; p. 603.
Firestone Tire and Rubber Company, The, Akron, Ohio. Boots, overshoes, pacs, &c. No. 130,720; May 4; v. 274; p. 184.
Fleckenstein, C. G., Co., Muskegon, Mich. Leather soles and heels. No. 131,111; May 4; v. 274; p. 196.
Flood, Arthur M., San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 131,308; May 11; v. 274; p. 400.
Fondaol Laboratories Co., Kansas City, Mo. Medicine for the treatment of sores, cuts, and wounds. No. 131,752; May 25; v. 274; p. 831.
Foot, Schulze & Co., St. Paul, Minn. Men's leather boots and shoes. No. 131,112; May 4; v. 274; p. 196.
Force Air Pump Company, Jefferson, Iowa. Automobile-tire pumps. No. 130,721; May 4; v. 274; p. 185.
Ford, Gertrude H., Tea Company, New York, N. Y. Teas. No. 130,722; May 4; v. 274; p. 185.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 130,723; May 4; v. 274; p. 185.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 131,462–3; May 18; v. 274; p. 603.
Fortner, William A., Cisco, Tex. Knockdown buildings. No. 131,113; May 4; v. 274; p. 196.
Fow, Linda F., Jenkintown, Pa. Face-lotion. No. 131,753; May 25; v. 274; p. 831.
Franc, Strohmenger & Cowan, Inc., New York, N. Y. Neckties, cravats, and scarfs. No. 131,754; May 25; v. 274; p. 831.
Frankenstein, Henry, New York, N. Y. Device for cleaning bristle brushes and brooms. No. 131,464; May 18; v. 274; p. 603.
Fresno Brewing Co., Fresno, Calif. Ice-cream and ices. No. 130,724; May 4; v. 274; p. 185.
Frees, Arsenio Jose, & Company, Inc., New York, N. Y. Table covers, napkins, table and bureau scarfs, handkerchiefs. No. 130,626; May 4; v. 274; p. 182.
Frolong, Lena, Oakland, Calif. Salve for the feet. No. 131,465; May 18; v. 274; p. 603.
Fruit Valley Corporation, Rochester, N. Y. Concentrated syrup and non-alcoholic beverage made from same. No. 131,466; May 18; v. 274; p. 603.
Fruit Valley Corporation, Rochester, N. Y. Syrup and non-alcoholic beverages made from same. No. 131,755; May 25; v. 274; p. 831.
Fuerst & Kraemer, Ltd., New Orleans, La. Candies. No. 131,114; May 4; v. 274; p. 196.
Fukuhara, Shinzo, Tokyo, Japan. Toilet preparations. No. 131,467; May 18; v. 274; p. 603.
Furman, Robert T., New York, N. Y. Inks of various kinds and colors. No. 131,756; May 25; v. 274; p. 831.
Galbraith Miling Company, Mount Morris, N. Y. Wheat-flour. No. 130,725; May 4; v. 274; p. 185.
Gambrill, C. A., Manuf'g Company, Baltimore, Md. Self-rising wheat-flour. No. 130,726; May 4; v. 274; p. 185.
Gareau, Charles A., Detroit, Mich. Sheltering-troughs for protecting coils on automobiles. No. 131,115; May 4; v. 274; p. 196.
Garland Milling Company, Greenburg, Ind. Self-rising flour. No. 130,727; May 4; v. 274; p. 185.
Geary, Thomas, Chicago, Ill. Tonic for the treatment of general debility, &c. No. 131,468; May 18; v. 274; p. 603.
General Coffee & Tea Co., Baltimore, Md. Canned vegetables. No. 131,309; May 11; v. 274; p. 400.
General Illuminating Co., New York, N. Y. Electrical flash-lights. No. 130,728; May 4; v. 274; p. 185.
General Insulating & Manufacturing Company, St. Louis, Mo., and Alexandria, Ind. Construction material. No. 131,116; May 4; v. 274; p. 196.
General Top Company, The, Cleveland, Ohio. Permanent tops for vehicles. No. 131,117; May 4; v. 274; p. 196.
Gensonite Welding Electrode Co., Philadelphia, Pa. Flux or covered electrodes. No. 131,903; May 25; v. 274; p. 836.
George Borgfeldt & Co., New York, N. Y. Toilet powder. No. 131,417; May 18; v. 274; p. 601.
Gernert, Earle, Billings, Mont. Canned vegetables. No. 130,729; May 4; v. 274; p. 185.
Gesell, Frank A., Los Angeles, Calif. Bank-deposit account-books. No. 130,730; May 4; v. 274; p. 185.
Gets Manufacturing Company, Andrews, Ind. Spark-plugs. No. 131,469; May 18; v. 274; p. 603.
Giavi, Francis N., New York, N. Y. Olive-oil. No. 130,731; May 4; v. 274; p. 185.
Gibbs Preserving Co., Baltimore, Md. Pure fruit jams. No. 130,732; May 4; v. 274; p. 185.
Giering Bottling Company, The, Youngstown, Ohio. Cherry phosphate, birch-beer, orange-soda, &c. No. 131,310; May 11; v. 274; p. 400.

Glibert, John O., Jackson, Mich. Candy. No. 131,118; May 4; v. 274; p. 196.
Glibert Paper Company, Menasha, Wis. Bond-paper. No. 131,120; May 4; v. 274; p. 196.
Glibert Paper Company, Menasha, Wis. Writing-paper. No. 131,119; May 4; v. 274; p. 196.
Glibert Paper Company, Menasha, Wis. Writing-paper. No. 131,121; May 4; v. 274; p. 197.
Glibert Paper Company, Menasha, Wis. Bond-paper for writing and printing. No. 131,758; May 25; v. 274; p. 831.
Glnbel Brothers, Incorporated, Philadelphia, Pa. Women's and misses' sporting suits and coats for outside wear. No. 131,759; May 25; v. 274; p. 831.
Given, John M., Inc., Pittsburgh, Pa., and New York, N. Y. Hosiery. No. 130,733; May 4; v. 274; p. 185.
Given, John M., Inc., New York, N. Y., Chicago, Ill., and Pittsburgh, Pa. Children's hosiery. No. 131,122; May 4; v. 274; p. 197.
Glacier Products Company, Kalispell, Mont. Malt and corn syrup. No. 130,734; May 4; v. 274; p. 185.
Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 131,123; May 4; v. 274; p. 197.
Globe Ear-Phone Company, Boston, Mass. Auricular seismographs. No. 131,311; May 11; v. 274; p. 400.
Goddard, J. W., & Sons, Incorporated, New York, N. Y. Cotton linings. No. 131,760; May 25; v. 274; p. 831.
Golden State Canneries, Los Angeles, Calif. Canned fruits. No. 131,904; May 25; v. 274; p. 836.
Goldman, Wm. P., & Bros. Inc., New York, N. Y. Men's and youths' suits and overcoats. No. 131,124; May 4; v. 274; p. 197.
Goodrich Drug Company, Omaha, Nebr. Talcum and face powder, massage-cream, toilet water, &c. No. 131,761; May 25; v. 274; p. 831.
Gordon, Sewall & Co., Houston, Tex. Coffee. No. 131,312; May 11; v. 274; p. 400.
Gosselin Trading Corporation, New York, N. Y. Ink in tablet form. No. 131,762; May 25; v. 274; p. 831.
Graceline Manufacturing Company, Seattle, Wash. Ladies' silk underwear. No. 130,735; May 4; v. 274; p. 185.
Grand Union Tea Co., Brooklyn, N. Y. Tea. No. 130,736; May 4; v. 274; p. 185.
Grand Union Tea Co., Brooklyn, N. Y. Spaghetti and macaroni. No. 131,126; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Stove-polish. No. 131,127; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Toilet and laundry soap. No. 131,128; May 4; v. 274; p. 197.
Grand Union Tea Co., Brooklyn, N. Y. Talcum powder. No. 131,313; May 11; v. 274; p. 400.
Grant, Robert, New York, N. Y. Steel. No. 130,737; May 4; v. 274; p. 185.
Graphite Products Limited, London, England. Paints, varnishes, &c. No. 131,763; May 25; v. 274; p. 831.
Gray, Frank A., Kansas City, Mo. Powder to be used in making a face-cream. No. 131,471; May 18; v. 274; p. 603.
Gray Tractor Company, Inc., Minneapolis, Minn. Farm-tractors. No. 130,738; May 4; v. 274; p. 185.
Great Western Products Co. Inc., New York, N. Y. Adhesives. Nos. 131,764–5; May 25; v. 274; p. 831.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate and candies. No. 131,314; May 11; v. 274; p. 400.
Grewe, Alexander, New York, N. Y. Candy. No. 130,739; May 4; v. 274; p. 185.
Griffin Mfg. Co., The, Boston, Mass. Air-valves for automobile-tires, pneumatic cushions, &c. No. 131,315; May 11; v. 274; p. 400.
Grimes-Perry Canning Company, Grimes, Iowa. Canned vegetables. No. 131,316; May 11; v. 274; p. 400.
Griswold Manufacturing Company, The, Erie, Pa. Aluminum and iron cooking utensils. No. 130,740; May 4; v. 274; p. 185.
Groetsch, Jules, New Orleans, La. Non-alcoholic beverage and syrup for making same. No. 131,472; May 18; v. 274; p. 603.
Gross, J. B., Corporation, New York, N. Y. Condensed milk. No. 130,741; May 4; v. 274; p. 185.
Grossenbacher, John G., Apopka, Fla. Insecticides. No. 131,473; May 18; v. 274; p. 603.
H-B. Tempering Process Co., Clearbrook, Minn., Composition for tempering steel or other metals. No. 131,477; May 18; v. 274; p. 603.
Haas, Baruch & Co., Los Angeles, Calif. Canned salmon. No. 131,905; May 25; v. 274; p. 836.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. Nos. 131,129–30; May 4; v. 274; p. 197.
Haas Brothers Fabrics' Corporation, New York, N. Y. Piece goods composed of silk. No. 131,475; May 18; v. 274; p. 603.
Haas Brothers Fabrics' Corporation, New York, N. Y. Piece goods composed of cotton. No. 131,476; May 18; v. 274; p. 603.
Habicht and Company, New York, N. Y. Shelled nuts and unshelled nuts in their natural state and dried fruits. No. 131,478; May 18; v. 274; p. 603.
Haeuser, A. R., Co., New York, N. Y. Varnishes, &c., for varnishing and coloring ladies' straw hats. No. 131,766; May 25; v. 274; p. 831.
Haeuser, A. R., Co., New York, N. Y., Varnishes, shellacs, &c., for coloring straw braid. No. 131,767; May 25; v. 274; p. 831.
Hagopian, Seraphen G., Chicago, Ill. Ice-cream cones. No. 130,742; May 4; v. 274; p. 185.
Hale Company, The, San Francisco, Calif. Canned fruits, &c. No. 131,131; May 4; v. 274; p. 197.
Haller Baking Company, Pittsburgh, Pa. Bread. No. 130,743; May 4; v. 274; p. 185.
Haller Baking Company, Pittsburgh, Pa. Bread, cakes, and pastry. No. 131,132; May 4; v. 274; p. 197.
Hallmark Picture Corporation, New York, N. Y. Moving-picture films. No. 131,317; May 11; v. 274; p. 400.
Haloid Company, The, Rochester, N. Y. Photographic and developing papers. No. 131,480; May 18; v. 274; p. 603.
Hamburger, Isaac, & Sons, Baltimore, Md. Men's and women's outer-wear suits and overcoats. No. 131,768; May 25; v. 274; p. 831.
Hammondsport Products Co. Inc., Hammondsport, N. Y. Grape juice. No. 131,481; May 18; v. 274; p. 603.
Hampton, James, Detroit, Mich. Salve for eczema. No. 131,482; May 18; v. 274; p. 604.
Handley Page Limited, Cricklewood, London, England. Engines and compressed-air motors. No. 131,569; May 18; v. 274; p. 606.
Handley Page Limited, Cricklewood, London, England. Measuring and scientific appliances. No. 131,814; May 25; v. 274; p. 833.
Happ Brothers Co., Macon, Ga. Overalls and jackets. No. 130,744; May 4; v. 274; p. 185.
Harbor City Canning Company, Harbor City, Calif. Canned fruits. No. 131,483; May 18; v. 274; p. 604.
Hardware Manufacturing Co., Seattle, Wash. Electric spot-lights or searchlights. No. 131,769; May 25; v. 274; p. 831.
Harland and Little, Inc., New York, N. Y. Mixed paints. No. 131,770; May 25; v. 274; p. 831.
Harriman Manufacturing Company, The, Harriman, Tenn. Cultivators, planters, and fertilizer-distributers. No. 131,318; May 11; v. 274; p. 400.
Harris, Chas. A., Dawson, Ga. Blood remedy. No. 131,484; May 18; v. 274; p. 604.
Harrold Tool & Forge Co., The, Columbiana, Ohio. Tools. No. 131,133; May 4; v. 274; p. 197.
Hartman Company, Chicago, Ill. Hog-waterers of the nature of tanks, serving as a water-supply. No. 130,745; May 4; v. 274; p. 185.
Hartman Company, The, Chicago, Ill. Saw-frames and sawing outfits, certain named feed-cutters, &c. No. 131,485; May 18; v. 274; p. 604.
Hartmann & Fehrenbach Products Co., Wilmington, Del. Malt beverage. No. 131,319; May 11; v. 274; p. 400.
Hastings, Henry M., San Francisco, Calif. Printed forms for estimates of printing-work. No. 130,747; May 4; v. 274; p. 185.
Hathaway, C. F., & Sons, North Cambridge, Mass. Bread. No. 130,748; v. 274; p. 185.
Hawker & Botwood Ltd., London, England. Chemical preparation containing the properties of a manure. No. 131,771; May 25; v. 274; p. 831.
Hawkins, Glover R., Lexington, Mo. Hair-grower, pressing-oil, temple-oil, and hair dye. No. 131,486; May 18; v. 274; p. 604.
Hays, Levi & Co., New York, N. Y. Men's suits. No. 131,134; May 4; v. 274; p. 197.
Hazen-Brown Company, Boston, Mass. Backing-pastes used in shoe manufacture. No. 131,772; May 25; v. 274; p. 831.
Hearn Oil Company, Wilmington, Del. Lubricating-oils. No. 131,773; May 25; v. 274; p. 831.
Hebb Motors Company, Lincoln, Nebr. Tractors. No. 131,487; May 18; v. 274; p. 604.
Heide, Henry, Incorporated, New York, N. Y. Marshmallow candies and confection. No. 131,488; May 18; v. 274; p. 604.
Heil, Henry, Chemical Company, St. Louis, Mo. Insecticides. No. 131,320; May 11; v. 274; p. 400.
Hill Insulating & Manufacturing Corporation, New York, N. Y. Spark-plugs. No. 131,489; May 18; v. 274; p. 604.
Heller Leather Co., Milwaukee, Wis. Leather gloves. No. 130,750; May 4; v. 274; p. 185.
Helm, Sarah, Indianapolis, Ind. Hair preparations. No. 131,774; May 25; v. 274; p. 832.
Hencken & Burner, San Francisco, Calif. Canned condensed milk. No. 131,321; May 11; v. 274; p. 400.
Hensch Food Company, Cleveland, Ohio. Foods for infants, invalids, and convalescents. No. 131,136; May 4; v. 274; p. 197.
Herkimer Fibre Company, The, Herkimer, N. Y. Manufactured leather board. No. 130,749; May 4; v. 274; p. 185.
Heroux, Frederick A., Oakland, Calif. Bread. No. 131,137; May 4; v. 274; p. 197.
Hezel Milling Company, East St. Louis, Ill. Self-rising wheat-flour. No. 131,138; May 4; v. 274; p. 197.
Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Hammers, knives, and shingling-hatchets. No. 131,322; May 11; v. 274; p. 400.
Hickok Producing Company, The, Toledo, Ohio. Gasolene. No. 131,906; May 25; v. 274; p. 836.
Hinkley, Albert, Newark, N. J. Stove-polish. No. 131,139; May 4; v. 274; p. 197.
Hirsch, Friedman Co., Chicago, Ill. Garments for men and boys. No. 131,140; May 4; v. 274; p. 197.

Hirsch-Mirviss Mfg. Co., Minneapolis, Minn. Overalls, work coats, shirts, and trousers. No. 130,751; May 4; v. 274; p. 185.
Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 131,490; May 18; v. 274; p. 604.
Hockaday, Frank W., Wichita, Kans. Permanent signs of plastic material. No. 131,907; May 25; v. 274; p. 836.
Hoddie Brothers, Detroit, Mich. Non-alcoholic beverages. No. 131,775; May 25; v. 274; p. 832.
Hoehl, Bruno A., Wheeling, W. Va. Malt and hop extract for non-alcoholic beverages. No. 131,908; May 25; v. 274; p. 836.
Hogan, John R., Philadelphia, Pa. Steel. No. 131,323; May 11; v. 274; p. 400.
Holt Manufacturing Company, Stockton, Calif. Internal-combustion engines. No. 131,491; May 18; v. 274; p. 604.
Holton & Adams, New York, N. Y. Preparation for cleansing and beautifying the skin. No. 131,492; May 18; v. 274; p. 604.
Homan-Hughes Company, Cincinnati, Ohio. Women's leather shoes. No. 130,757; May 4; v. 274; p. 186.
Home Distributing Co., St. Louis, Mo. Non-alcoholic beverage. No. 131,493; May 18; v. 274; p. 604.
Home-Made Noodle Co., Philadelphia, Pa. Noodles. No. 131,324; May 11; v. 274; p. 400.
Hooven & Allison Company, Xenia, Ohio. Fiber ropes and twines. Nos. 130,752–5; May 4; v. 274; p. 185.
Hoover Suction Sweeper Company, New Berlin, Ohio. Electric suction-sweepers. No. 130,756; May 4; v. 274; p. 186.
Horlacher Brewing Co., Allentown, Pa. Non-alcoholic beverages and syrups for making same. No. 131,776; May 25; v. 274; p. 832.
Hornor-Gaylord Company, Clarksburg, W. Va. Wheat-flour. No. 131,141; May 4; v. 274; p. 197.
Houghton, E. F., & Co., Philadelphia, Pa. Oil compound for use in cutting metals, &c. No. 131,777; May 25; v. 274; p. 832.
Hovermale, Howard R., Brunswick, Md. Laxative tablet. No. 131,494; May 18; v. 274; p. 604.
Howell, Field & Goddard, Inc., Long Island City, N. Y. Shingles. No. 131,909; May 25; v. 274; p. 836.
Howes, S., Co., Inc., Silver Creek, N. Y. Machinery for certain named purposes. No. 130,758; May 4; v. 274; p. 186.
Hubbell, Harvey, Incorporated, Bridgeport, Conn. Electrical lighting and wiring fixtures. No. 130,746; May 4; v. 274; p. 185.
Hunt, Philip A., Company, New York, N. Y. Gold, metal, and composition leaf. No. 131,495; May 18; v. 274; p. 604.
Hunter, Frances E., Dallas, Tex. Lung medicine. No. 131,496; May 18; v. 274; p. 604.
Huss Bros. Phonograph & Piano Co., The, Cincinnati, Ohio. Phonographs. No. 131,778; May 25; v. 274; p. 832.
Huth & Co., New York, N. Y. Cutlery. No. 130,759; May 4; v. 274; p. 186.
Hygeia Beverage Co., Natick, Mass. Non-alcoholic beverages and syrups. No. 131,497; May 18; v. 274; p. 604.
Hyland, Michael J., Rochester, N. Y. Preparations used in embalming. No. 131,325; May 11; v. 274; p. 400.
Hyman Bauman & Co., New York, N. Y. Handkerchiefs. No. 131,408; May 18; v. 274; p. 601.
Ideal Paste & Chemical Works, Cleveland, Ohio. Adhesive paste. Nos. 131,779–80; May 25; v. 274; p. 832.
Ideal Roller Company, Chicago, Ill. Rollers for certain named machines. No. 130,760; May 4; v. 274; p. 186.
Imperial Electrical Co., Union City, Ind. Electric milk and cream testers. No. 131,498; May 18; v. 274; p. 604.
Imperial Merchandise Company, Perry, Ohio. Toilet-paper. Nos. 131,781–2; May 25; v. 274; p. 832.
Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Malt beverage. Nos. 131,326–7; May 11; v. 274; p. 400.
India Refining Company, Philadelphia, Pa. Cocoanut-oil. No. 131,499; May 18; v. 274; p. 604.
Indiana Board & Filler Company, Decatur, Ind. Egg-cases, egg-case fillers, cushion-fillers, &c. No. 130,761; May 4; v. 274; p. 186.
Individual Drinking Cup Company, Inc., New York, N. Y. Catamenial bandages. No. 130,762; May 4; v. 274; p. 186.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Fluid-pressure-operated drilling-machines. No. 131,328; May 11; v. 274; p. 400.
International Button Co., Rochester, N. Y. Buttons. No. 130,763; May 4; v. 274; p. 186.
International Carbon Products Company, New York, N. Y. Flake graphite. No. 130,764; May 4; v. 274; p. 186.
International Conduit Corporation, New York, N. Y. Conduits and fittings. No. 131,500; May 18; v. 274; p. 604.
International Cork Company, Brooklyn, N. Y. Cork. No. 130,765; May 4; v. 274; p. 186.
International Corset Company, Aurora, Ill. Corsets. No. 131,142; May 4; v. 274; p. 197.
International Cotton Mills, Boston, Mass. Crash goods. No. 131,783; May 25; v. 274; p. 832.
International Duplex Coat Co., Inc., New York, N. Y. Reversible leather coat. No. 130,766; May 4; v. 274; p. 186.
International Manufacturing Company of Texas, Dallas, Tex. Butter-churns and parts thereof. No. 131,501; May 18; v. 274; p. 604.
International Milling Company, New Prague, Minn. Wheat-flour. No. 131,910; May 25; v. 274; p. 836.
Intravenous Products Company, The, Denver, Colo. Preparations used for intramuscular, intravenous, subcutaneous, or local administration. No. 131,502; May 18; v. 274; p. 604.
Italian Discount and Trust Company, New York, N. Y. Monthly publication. No. 131,784; May 25; v. 274; p. 832.
Italian Food Products Co., Los Angeles, Calif. Canned tomatoes, tomato paste, canned string-beans, &c. No. 131,503; May 18; v. 274; p. 604.
Jacknowitz, Charles, Union Hill, N. J. Liquid eyeglass-cleaner. No. 131,505; May 18; v. 274; p. 604.
Jackson Brewing Company, New Orleans, La. Non-alcoholic maltless cereal beverages. No. 131,504; May 18; v. 274; p. 604.
Jackson Brewing Company, New Orleans, La. Non-alcoholic beverages. No. 131,785; May 25; v. 274; p. 832.
Jacobs, Albert, Company, New York, N. Y. Job and delivery tags. No. 131,143; May 4; v. 274; p. 197.
Jaeger, Wm. J., New York, N. Y. Domestic cooking-boilers. No. 131,329; May 11; v. 274; p. 400.
Janney & Burroughs, Inc., Philadelphia, Pa. Sole-leather. No. 130,767; May 4; v. 274; p. 186.
Jasmine Ink Corporation, Norfolk, Va. Condensed ink. No. 131,506; May 18; v. 274; p. 604.
Jennings Manufacturing Company, Grand Rapids, Mich. Perfumery, toilet water, face and talcum powder, and face-cream. No. 131,507; May 18; v. 274; p. 604.
Jetter Beverage Company, Omaha, Nebr. Cereal malt beverage. No. 131,330; May 11; v. 274; p. 400.
Jetter Beverage Company, Omaha, Nebr. Cereal malt beverage. No. 131,508; May 18; v. 274; p. 604.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 131,509; May 18; v. 274; p. 604.
Johnson, J., Kendrick, Elizabeth, N. J. Harmonicas or mouth-organs. No. 131,787; May 25; v. 274; p. 832.
Johnson, Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. No. 131,144; May 4; v. 274; p. 197.
Johnston Dry Goods Co., Birmingham, Ala. Hosiery, men's collars, dress-shirts, &c. No. 130,768; May 4; v. 274; p. 186.
Jones, Leroy, Houston, Tex. Liniment for the treatment of certain named affections. No. 131,331; May 11; v. 274; p. 400.
Just Shoe Company, The, West Alhambra, Calif. Children's and misses' leather, canvas, and felt shoes and slippers. No. 131,145; May 4; v. 274; p. 197.
Kahan, Gabriel, Lowell, Mass. Food paste to be used in a manner similar to butter. No. 131,146; May 4; v. 274; p. 197.
Kalyptol Chemical Company, Newark, N. J. Preparation for the treatment of mucous-membrane disorders and diseases. No. 131,332; May 11; v. 274; p. 400.
Kamenstein, Myer, New York and Brooklyn, N. Y. Ash, garbage, and oil cans. No. 130,769; May 4; v. 274; p. 186.
Kansas Book Dealers Association. (See Lee, H. D., Mercantile Co., The, assignor.)
Kaplan & Kaplan, New York, N. Y. Men's dress-shirts. No. 131,788; May 25; v. 274; p. 832.
Kappas, Evaggelos, St. Louis, Mo. Candy. No. 131,106; May 4; v. 274; p. 196.
Karalan, Melcon A., New York, N. Y. Petticoats and bloomers. No. 130,770; May 4; v. 274; p. 186.
Kaut, Wm., Footwear Company, Carthage, Mo. Boots and shoes made of leather. Nos. 130,771–4; May 4; v. 274; p. 186.
Kaut, Wm., Footwear Company, Carthage, Mo. Leather boots and shoes. No. 131,147; May 4; v. 274; p 197.
Kaut, Wm., Footwear Co., Carthage, Mo. Leather boots, shoes, slippers, and sandals. No. 131,148; May 4; v. 274; p. 197.
Kaye, Harry, Yonkers, N. Y. Insect-powder. No. 131,511; May 18; v. 274; p. 605.
Kayser, Julius, & Co., New York, N. Y. Short narrow strips of fabric for use as trimmings for underwear. No. 131,149; May 4; v. 274; p. 197.
Keasbey & Mattison Company, Ambler, Pa. Medicinal preparation for headache and nervous diseases. No. 131,512; May 18; v. 274; p. 605.
Keasbey & Mattison Company, Ambler, Pa. Preparation for rheumatism and cystitis. No. 131,513; May 18; v. 274; p. 605.
Keasbey & Mattison Company, Ambler, Pa. Medicinal remedy for colds and malaria. No. 131,514; May 18; v. 274; p. 605.
Keebler Weyl Baking Co., Philadelphia, Pa. Bread, rolls, cakes, pies, &c. No. 130,775; May 4; v. 274; p. 186.
Keeps-Fresh Electric Bakeries, Chicago, Ill. Electric ovens. No. 131,515; May 18; v. 274; p. 605.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 130,776; May 4; v. 274; p. 186.
Kelley Clarke Co., Seattle, Wash. Fruit jams. No. 131,333; May 11; v. 274; p. 400.
Kellogg Seed Co., Milwaukee, Wis. Field and grass seeds. No. 131,150; May 4; v. 274; p. 197.
Kelly-Springfield Motor Truck Company, The, Springfield, Ohio. Automobile-trucks. Nos. 131,151–2; May 4; v. 274; p. 197.
Kenosha Wheel & Axle Company, Kenosha, Wis. Cast metal vehicle-wheels. No. 131,153; May 4; v. 274; p. 197.

Kenyon, John, & Co. (Sheffield,) Limited, Sheffield, England. Iron and steels. Nos. 131,516–18; May 18; v. 274; p. 605.
Keppel, R. F., & Bro, Lancaster, Pa. Candies. No. 130,777; May 4; v. 274; p. 186.
Kiddie Kover Manufacturing Company, Detroit, Mich. Children's suits and rompers. No. 130,778; May 4; v. 274; p. 186.
Kilgore, Jefferson D., Poplar Bluff, Mo. Phonographs, talking-machines, and pianos. No. 131,786; May 25; v. 274; p. 832.
King Coal Company, San Francisco, Calif. Coal. No. 130,779; May 4; v. 274; p. 186.
Kinney Bros, Inc., Binghamton, N. Y. Evaporated milk. No. 131,154; May 4; v. 274; p. 198.
Klausner, Samuel, Chicago, Ill. Non-alcoholic beverage and syrup for making same. No. 131,519; May 18; v. 274; p. 605.
Klebanoff, David, Philadelphia, Pa. Remedy for la grippe, colds and headache. No. 131,520; May 18; v. 274; p. 605.
Klema, Joseph W., Austin, Minn. Lanterns. No. 131,155; May 4; v. 274; p. 198.
Klima, Louis, New York, N. Y. Bloater paste, anchovy paste, sardine paste, &c. No. 131,521; May 18; v. 274; p. 155.
Knickerbocker Watch Co., New York, N. Y. Watches. Nos. 131,156–8; May 4; v. 274; p. 198.
Knipe Bros., Inc., Haverhill, Mass. Leather boots and shoes. No. 131,789; May 25; v. 274; p. 832.
Knox, Charles B., Gelatine Company, Inc., Johnstown, N. Y. Gelatin. No. 131,911; May 25; v. 274; p. 836.
Kohlman, Chas., Co., Inc., New York, N. Y. Cotton piece goods. No. 131,159; May 4; v. 274; p. 198.
Kohn, Louis, Bradford, Pa. Overalls and shop-coats. No. 131,160; May 4; v. 274; p. 198.
Kohnstamm, H., & Co., New York, N. Y. Flavoring extracts for foods. No. 130,780; May 4; v. 274; p. 186.
Kohnstamm, H., & Co., New York, N. Y. Flavoring extracts for foods. No. 131,161; May 4; v. 274; p. 198.
Kohnstamm, H. & Co., New York, N. Y. Starch for laundry purposes and in treating textiles. No. 131,522; May 18; v. 274; p. 605.
Koivisto, Kustaa, Portland, Oreg. Ready-mixed paint and rough-surface coating. No. 131,790; May 25; v. 274; p. 832.
Kokomar Company, Cleveland, Ohio. Oleomargarin. No. 130,781; May 4; v. 274; p. 186.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Welded and riveted pipe, railway-spikes, &c. No. 130,782; May 4; v. 274; p. 186.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Railway appliances and parts thereof. No. 130,783; May 4; v. 274; p. 186.
Koppers Company, Pittsburgh, Pa. Paints, varnishes, paint-oils, and resins. No. 131,791; May 25; v. 274; p. 832.
Kops Bros., New York, N. Y. Corsets and brassières. No. 130,784; May 4; v. 274; p. 186.
Krause, Chas. A., Milling Co., Greenfield, Wis. Stock-feed. No. 130,785; May 4; v. 274; p. 186.
Krebs, Ernst T., Carson City, Nev. Remedy for influenza, pneumonia, &c. No. 131,792; May 25; v. 274; p. 832.
Krenning-Schlapps Grocer Company, St. Louis, Mo. Clotheslines. No. 130,786; May 4; v. 274; p. 186.
Kreo-Rub Chemical Co., Maryville, Tenn. Medicinal preparation for rheumatism, backache, lumbago, &c. No. 131,334; May 11; v. 274; p. 400.
Ktenaveas, Stratos D., Washington, D. C. Preparation that destroys dandruff, stops falling out of hair, &c. No. 130,787; May 4; v. 274; p. 186.
Knilman, Salz & Co., San Francisco, Calif. Hides and leather. No. 131,162; May 4; v. 274; p. 198.
Kupferman, Chas. A., Co., New York, N. Y. Ladies' muslin and silk underwear. No. 131,793; May 25; v. 274; p. 832.
Kux Brothers, Cleveland, Ohio. Women's suits, dresses, and skirts. No. 130,788; May 4; v. 274; p. 187.
L. A. Sea Food Packing Co., East San Pedro, Calif. Canned fish. No. 130,911; May 4; v. 274; p. 190.
L. A. Sea Food Packing Co., East San Pedro, Calif. Canned fish. No. 131,174; May 4; v. 274; p. 198.
Lacey, Roscoe B., Grand Rapids, Mich. Electric spark-timer for automobile-engines. No. 131,794; May 25; v. 274; p. 832.
Lafferty, Herbert D., Oakland, Calif. Toy vehicles of the coaster type. No. 131,009; May 4; v. 274; p. 193.
Lafferty, Herbert D., Oakland, Calif. Force-feed oilers. No. 131,523; May 18; v. 274; p. 605.
Lambert, A. W., Jr., & Company, St. Louis, Mo. Soaps. No. 131,524; May 18; v. 274; p. 605.
Lamborn & Co., New York, N. Y. Lubricating-oils. No. 131,795; May 25; v. 274; p. 832.
Lamle Chemical Company, Huntington, W. Va. Dyes No. 131,335; May 11; v. 274; p. 400.
La Monte, George, & Son, Nutley, N. J., and New York, N. Y. Safety-paper. No. 131,010; May 4; v. 274; p. 193.
Lamson and Goodnow Manufacturing Company, Shelburne Falls, Mass. Steel knives. No. 131,528; May 18; v. 274; p. 605.
Lane, Willey B., Chicago, Ill. Ratchet-wrenches. No. 130,995; May 4; v. 274; p. 193.
Langenberg Hat Company, St. Louis, Mo. Men's and boys' caps and hats. No. 131,011; May 4; v. 274; p. 193.
Lanman & Kemp, New York, N. Y. Aniiin colors, dry and liquid dye-colors, dyes, and dyestuffs. No. 131,526; May 18; v. 274; p. 605.
Laporte, Ernest W., New Orleans, La. Non-alcoholic beverages and flavoring syrups. No. 131,525; May 18; v. 274; p. 605.
Larco Wrench and Mfg. Corporation, Chicago, Ill. Wrenches, pipe-cutters, clamps, lathe-dogs. No. 131,336; May 11; v. 274; p. 401.
Larson, L. P., Jr., Company, Chicago, Ill. Confection. No. 130,789; May 4; v. 274; p. 187.
Larson, L. P., Jr., Company, Chicago, Ill. Chewing-gum. No. 131,337; May 11; v. 274; p. 401.
Lathrop, H. R., & Co., New York, N. Y. Haarlem oil for kidney, liver, bladder, rheumatism, and uric-acid troubles. No. 131,527; May 18; v. 274; p. 605.
Laundry Supplies Corporation, Richmond, Va. Preparation for cleansing purposes. No. 131,163; May 4; v. 274; p. 198.
Lawrence Canning Co., Rockland, Me. Canned fish. No. 130,790; May 4; v. 274; p. 187.
Lawson, Robert, & Sons, Philadelphia, Pa. Trousers. No. 130,791; May 4; v. 274; p. 187.
Lee, H. D., Mercantile Co., Salina, Kans., and Kansas City, Mo. Wearing-apparel. No. 130,792; May 4; v. 274; p. 187.
Lee, H. D., Mercantile Co., The, Salina, Kans., and Kansas City, Mo., assignors to Kansas Book Dealers Association. Writing-tablets. No. 131,529; May 18; v. 274; p. 605.
Leggett, Francis H., & Co., New York, N. Y. Cigars. No. 130,793; May 4; v. 274; p. 187.
Lehman Brothers, Inc., Easton, Pa. Ladies' silk and cotton woven underwear. No. 131,164; May 4; v. 274; p. 198.
Leicht, George, Hancock, N. Y. Heave remedy for horses. No. 131,530; May 18; v. 274; p. 605.
Lennon, John F., Providence, R. I. Wheat-flour. No. 131,531; May 18; v. 274; p. 605.
Leopold Solomon and Elsendrath, Chicago, Ill. Men's and boys' suits, vests, trousers, and overcoats. No. 131,165; May 4; v. 274; p. 198.
Lesser Manufacturing Company, Olean, N. Y. Liquid spray for animals. No. 131,796; May 25; v. 274; p. 832.
Levy, B. H., Bro. & Co., Savannah, Ga. Men's suits and overcoats. No. 130,794; May 4; v. 274; p. 187.
Levy, B. H., Bro. & Co., Savannah, Ga. Boys' suits and overcoats. No. 131,166; May 4; v. 274; p. 198.
Levy & Fish, New York, N. Y. Table and shelf oil-cloths, enameled cloth. No. 131,168; May 4; v. 274; p. 198.
Levy, Lewis, Philadelphia, Pa. Dresses. No. 131,167; May 4; v. 274; p. 198.
Lewis, Florence N., New York, N. Y. Cake face-powder. No. 131,532; May 18; v. 274; p. 605.
Lewis Manufacturing Company, Walpole, Mass. Sanitary napkins. No. 130,795; May 4; v. 274; p. 187.
Liberty Bread Slicer Company, Inc., Rochester, N. Y. Bread-slicing machines. No. 131,338; May 11; v. 274; p. 401.
Liebich, G. J., Co., Chicago, Ill. Paints and painters' materials. No. 131,533; May 18; v. 274; p. 605.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarette-paper. No. 130,796; May 4; v. 274; p. 187.
Lilly, Eli, & Company, The, Indianapolis Ind. Expectorant and cough-sedative. No. 131,304; May 11; v. 274; p. 399.
Lilly, Eli, & Co., The, Indianapolis, Ind. Disinfectant and germicide preparation. No. 131,452; May 18; v. 274; p. 603.
Lilly, Eli, & Company, The, Indianapolis, Ind. Cascara preparations. No. 131,745; May 25; v. 274; p. 831.
Lilly, Eli, & Company, The, Indianapolis, Ind. Sodium-salicylate preparations. No. 131,746; May 25; v. 274; p. 831.
Lilly, Eli, & Company, The, Indianapolis, Ind. Anti-epileptic, anticephalalgic, hypnotic, and sedative preparations. No. 131,747; May 25; v. 274; p. 831.
Limpert Bros., Inc., New York, N. Y. An extract having a maple flavor. No. 130,797; May 4; v. 274; p. 187.
Lindner, David J., New York, N. Y. Chamois-skins and sponges. No. 131,169; May 4; v. 274; p. 198.
Linehan-Conover Company, Worcester, Mass. Corsets, corset-waists, and brassières. No. 131,170; May 4; v. 274; p. 198.
Lion Manufacturing Company, Omaha, Nebr. Suspenders, waist-belts, garters, &c. No. 131,171; May 4; v. 274; p. 198.
Little, A. E., Company, Lynn, Mass. Boots, shoes, leggings, or puttees. No. 131,172; May 4; v. 274; p. 198.
Locke Shoe Co., Wheeling, W. Va. Leather boots and shoes. No. 130,798; May 4; v. 274; p. 187.
Locomotive Pulverized Fuel Company, New York, N. Y. Engines, locomotives, and their parts, motors, &c. No. 131,534; May 18; v. 274; p. 605.
Loewus, G., & Co., Jersey City, N. J. Non-intoxicating fruit beverages. No. 131,912; May 25; v. 274; p. 836.
London 'O-T', Limited, Blackfriars, London, England, and Prahran, Victoria, Australia. Lemon-squash and lime juice. No. 131,536; May 18; v. 274; p. 605.

Long-Bell Lumber Company, The. Kansas City, Mo. Finished and unfinished lumber. No. 131,913; May 25; v. 274; p. 836.
Long, Lawrence R., San Antonio, Tex. Face-powder, rouge, &c. No. 131,339; May 11; v. 274; p. 401.
Longhorn Drilling & Development Association. Fort Worth, Tex. Well-drilling machinery and tools and well equipment. No. 131,537; May 18; v. 274; p. 605.
Loos, Reinhold, Newark, N. J. Rope-clamp. No. 131,173; May 4; v. 274; p. 198.
Lopez, V., & Company, Inc., New York, N. Y. Butter. No. 131,535; May 18; v. 274; p. 605.
Lorenz Company, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio. Perfumes, tooth and toilet powders, &c. No. 131,538; May 18; v. 274; p. 605.
Lorenz Company, The, Everett, Mass., assignor to Mihalovitch Brothers Company, Cincinnati, Ohio. Toilet lotion. No. 131,539; May 18; v. 274; p. 606.
Lorenz Company, The, Everett, Mass. Tooth and foot powders. No. 131,540; May 18; v. 274; p. 606.
Louis Brun Fils, Arre, France. Stockings and socks. Nos. 130,659–60; May 4; v. 274; p. 183.
Lovsted, Carl M., Seattle, Wash. Electric steam alarm-whistles. No. 130,799; May 4; v. 274; p. 187.
Lowney, Walter M., Company, The, Boston, Mass. Candy. No. 130,800; May 4; v. 274; p. 187.
Lowney, Walter M., Company, The, Boston, Mass. Candy. Nos. 131,175–7; May 4; v. 274; p. 198.
Lummus Cotton Gin Company, Columbus, Ga. Machinery. No. 131,178; May 4; v. 274; p. 198.
Lumoff and Evanove, Seattle, Wash. Lotions. No. 131,797; May 25; v. 274; p. 832.
Lundborg Company, The, New York, N. Y. Perfume, toilet water, face-powder, toilet cream, and sachet. No. 131,541; May 18; v. 274; p. 606.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 131,340; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-pumps. No. 131,341; May 11; v. 274; p. 401.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 131,342; May 11; v. 274; p. 401.
Lydon Manufacturing Co., Chicago, Ill. Spark-plugs. No. 131,542; May 18; v. 274; p. 606.
Lynard, John, Owatonna, Minn. Eggs, poultry, and butter. No. 130,801; May 4; v. 274; p. 187.
Lynch, William C., Washington, D. C. Ointment for piles, burns, boils, &c. No. 131,343; May 11; v. 274; p. 401.
Lynchburg Foundry Company, Lynchburg, Va. Plows and parts thereof. No. 130,802; May 4; v. 274; p. 189.
M-C Syndicate, Philadelphia, Pa. Articles on current events for children. No. 131,186; May 4; v. 274; p. 198.
McCormick & Co., Baltimore, Md. Extracts and flavors. No. 130,803; May 4; v. 274; p. 187.
Mcbougall Brothers, Limited, Manchester, England. Insecticides. No. 131,543; May 18; v. 574; p. 606.
McDowell, Pyle & Co., Inc., Baltimore, Md. Candies. No. 130,804; May 4; v. 274; p. 187.
McIntosh Battery and Optical Co., Chicago, Ill. Apparatus for generating, &c., electric current for therapeutic purposes. No. 130,805; May 4; v. 274; p. 187.
McIntosh Battery & Optical Co., Chicago, Ill. Electrode-pads. No. 130,806. May 4; v. 274; p. 187.
McIntosh, Norman S., Detroit, Mich. Cleaning compound for the hands. No. 131,179; May 4; v. 274; p. 198.
McKenna, Marguerite C., New York, N. Y. Combination of sugar and cinnamon. No. 130,807; May 4; v. 274; p. 187.
McLane Silk Company, Turners Falls, Mass. Silk and satin piece goods. No. 131,180; May 4; v. 274; p. 198.
McLaughlin, Wallace D., Fort Scott, Kans. Seed-planting attachments for hoes, &c. No. 131,544; May 18; v. 274; p. 606.
McRae & Keeler, Attleboro, Mass. Cuff-links. No. 131,798; May 25; v. 274; p. 832.
MacKellar's, R., Sons Co., Peekskill, N. Y. Charcoal. No. 131,181; May 4; v. 274; p. 198.
Mahan, Cyril C., Baltimore, Md. Candy. No. 130,808; May 4; v. 274; p. 187.
Majestic Electric Development Co., San Francisco, Calif. Electric air, water, and immersion heaters. No. 130,809; May 4; v. 274; p. 187.
Malone, Lawrence T., San Antonio, Tex. Taffy and cream candy. No. 130,822; May 4; v. 274; p. 188.
Malone, Lawrence T., San Antonio, Tex. Chocolate-coated candy. No. 130,823; May 4; v. 274; p. 188.
Malone & Hyde, Memphis, Tenn. Castor-oil, Epsom salts, and sulfur. No. 131,545; May 18; v. 274; p. 606.
Malott, H. F., Shoe Co., Chicago, Ill. Boys' and girls' shoes made wholly or in part of leather. No. 130,810; May 4; v. 274; p. 187.
Malouf, Abraham M., New York, N. Y. Hats, caps, mackinaws, dresses, &c. No. 130,811; May 4; v. 274; p. 178.
Mangos, Constantine G., Davenport, Iowa. Carbonated water. No. 131,546; May 18; v. 274; p. 606.
Mann, Alexander S., Providence, R. I. Liquid antiseptic. No. 131,547; May 18; v. 274; p. 606.
Manteca Packing Company, Manteca, Calif. Canned fruits. No. 131,344; May 11; v. 274; p. 401.
Manteca Packing Company, Manteca, Calif. Canned fruits. No. 131,799; May 25; v. 274; p. 832.
Manufacturers Textile Co. Inc., New York, N. Y. Cotton, wool, silk, and linen piece goods. No. 131,548; May 18; v. 274; p. 606.
Marathon Shoe Co., Wausau, Wis. Shoes. No. 130,812; May 4; v. 274; p. 187.
Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber composition soles, half-soles, and heels. Nos. 130,824–5; May 4; v. 274; p. 188.
Marathon Tire and Rubber Co., Cuyahoga Falls, Ohio. Imitation leather. No. 131,182; May 4; v. 274; p. 198.
Marcelino Perez & Co., New York, N. Y. Cigars. No. 130,813; May 4; v. 274; p. 187.
Marfleet, Gerald J., Rock Falls, Ill. Moving-picture films. No. 130,826; May 4; v. 270; p. 188.
Margolis, Jacob H., Dayton, Ohio. Coats, vests, trousers. No. 130,814; May 4; v. 274; p. 187.
Marmon Chicago Company, Chicago, Ill. Self-contained electric power-generating and lighting plants. No. 130,827; May 4; v. 274; p. 188.
Marquetand, Theodore, Philadelphia, Pa. Candy. No. 131,184; May 4; v. 274; p. 198.
Marshall Field Company, Chicago, Ill. Sleeping-garments. No. 130,815; May 4; v. 274; p. 187.
Marshall Field & Company, Chicago, Ill. Grain-bags. No. 130,816; May 4; v. 274; p. 187.
Martin, C. J., Austin, Tex. Worm-exterminator. No. 131,549; May 18; v. 274; p. 606.
Marx, Leon, New York, N. Y. Female-apparel. No. 131,800; May 25; v. 274; p. 832.
Marx, Louis E., Huntington, Ind. Hair-curler. No. 131,185; May 4; v. 274; p. 198.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 130,817; May 4; v. 274; p. 187.
Mason City Candy Co., Mason City, Iowa. Candies. No. 130,818; May 4; v. 274; p. 187.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 130,819; May 4; v. 274; p. 187.
Massachusetts Breweries Company, Alexandria, Va., and Boston, Mass. Malt beverages. No. 131,914; May 25; v. 274; p. 836.
Massey-Harris Harvester Co., Inc., Batavia, N. Y. Mowers, self-raking reapers, hay-tedders, &c. No. 130,820; May 4; v. 274; p. 187.
Maurer, Oscar E., San Francisco, Calif. Malt syrup for baking purposes. No. 131,183; May 4; v. 274; p. 198.
Maurice Company, The, Cleveland, Ohio. Milk-chocolates. No. 130,821; May 4; v. 274; p. 188.
Mayer, F., Boot & Shoe Co., Milwaukee, Wis. Leather boots and shoes. No. 131,801; May 25; v. 274; p. 832.
Mayhew Steel Products, Inc., New York, N. Y. Mechanics' hand-tools. No. 130,828; May 4; v. 274; p. 188.
Maxcy, Latimer, Frostproof, Fla. Fresh citrus fruits. No. 131,345; May 11; v. 274; p. 401.
Mazzone, Salvatore, Brooklyn, N. Y. Remedy for rheumatism and sciatica. No. 131,550; May 18; v. 274; p. 606.
Megler, Nellie E., Brookfield, Wash. Fish, fresh, canned, or cured, particularly shad-cutlets and shad-roe in cans. No. 131,187; May 4; v. 274; p. 198.
Mennel Milling Company, Toledo, Ohio. Wheat-flour. No. 131,551; May 18; v. 274; p. 606.
Mentzer, John P., Chicago, Ill. Dry storage batteries. No. 130,829; May 4; v. 274; p. 188.
Mero Mills, Nashville, Tenn. Wheat-flour. No. 131,188; May 4; v. 274; p. 199.
Merrell, William S., Company, Cincinnati, Ohio. Compound and ointment of iodin and oil. No. 131,552; May 18; v. 274; p. 606.
Merritt, Stephen, New York, N. Y. Coffins, caskets, rough boxes. No. 130,830; May 4; v. 274; p. 188.
Metalwood Manufacturing Co., Detroit, Mich. Hydraulic machinery and equipment. No. 130,831; May 4; v. 274; p. 188.
Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetics. No. 131,346; May 11; v. 274; p. 401.
Metz, Herman A., New York, N. Y. Dyestuffs and chemicals. No. 131,553; May 18; v. 274; p. 606.
Mewhinney, A. B., Co., Terre Haute, Ind. Candy. No. 131,189; May 4; v. 274; p. 199.
Mewhinney, A. B., Co. Inc., Terre Haute, Ind. Chocolate candies. No. 131,190; May 4; v. 274; p. 199.
Meyer, Milton J., & Co., Inc., New York, N. Y. Leather shoes. No. 130,832; May 4; v. 274; p. 188.
Michigan Machine Company, Detroit, Mich. Pumps for pumping liquids. No. 131,347; May 11; v. 274; p. 401.
Miller, J. E., Chicago, Ill. Glass-cutters. No. 130,833; May 4; v. 274; p. 188.
Millichamp, F. Stanley, Wapato, Wash. Fresh apples. No. 130,929; May 4; v. 274; p. 191.
Millman, Abe, New York, N. Y. Infants' and children's dresses. No. 130,834; May 4; v. 274; p. 188.
Minnesota Stove Co., Minneapolis, Minn. Porcelain-enamel-coated metal sheets, plates, and angle-pieces. No. 131,191; May 4; v. 274; p. 199.
Mirete Ayala, Angel, Madrid, Spain. Solder for aluminum. No. 131,406; May 18; v. 274; p. 601.
Mitchell, William, (Pens) Limited, Smethwick, near Birmingham, England. Stationery articles. No. 131,802; May 25; v. 274; p. 832.
Monarch Mfg. Co., Atlanta, Ga. Non-alcoholic, &c., beverage. No. 131,348; May 11; v. 274; p. 401.

Morcott Co., Inc., New York, N. Y. Piece goods of cotton, silk, and silk and cotton mixtures. No. 131,554; May 18; v. 274; p. 606.
Morey, Robert G., North Prairie, Wis. Sweetened condensed milk and unsweetened evaporated milk. No. 131,555; May 18; v. 274; p. 606.
Morgan Crucible Compy., Ld., Battersea, London, England. Brushes for dynamos and electric motors. No. 131,192; May 4; v. 274; p. 199.
Morrell, John, & Co., Ottumwa, Iowa. Eggs. No. 130,835; May 4; v. 274; p. 188.
Morrell, John, & Co., Ottumwa, Iowa. Breakfast-bacon. No. 131,915; May 25; v. 274; p. 836.
Morris & Yeomans Limited, Redditch, England. Needles for talking-machines. No. 131,890; May 25; v. 274; p. 835.
Morrison, John, Jr., Glens Falls, N. Y. Hair and clothes brushes, shoe brushes and daubers. No. 130,836; May 4; v. 274; p. 188.
Moses Eadon & Sons, Limited, Sheffield, England. Steel. No. 131,449; May 18; v. 274; p. 602.
Motorlife Oil Company, Athens, Ga. Lubricating oils and greases. No. 131,916; May 25; v. 274; p. 836.
Mt. Ida Packing Company, Oroville, Calif. Pickled olives. No. 131,193; May 4; v. 274; p. 199.
Murdock, C. A., Mfg. Co., Kansas City, Mo. Laundry bluing. No. 131,556; May 18; v. 274; p. 606.
Musher & Company, Incorporated, New York, N. Y.; Baltimore, Md.; San Diego, Calif., and Washington, D. C. Cured and preserved fish, edible virgin vegetable oils, &c. No. 131,557; May 18; v. 274; p. 606.
Music Table Company, The, Greenfield, Ohio. Phonographs. No. 130,837; May 4; v. 274; p. 188.
N. & P. Varnishfood Company, Spokane, Wash. Automobile and furniture polish. No. 131,869; May 25; v. 274; p. 835.
N. & S. Engine Co., Seattle, Wash. Internal-combustion engines, &c. No. 130,714; May 4; v. 274; p. 184.
Nash Engineering Co., South Norwalk, Conn. Relief and ball float valves for machinery. No. 130,838; May 4; v. 274; p. 188.
Nashua Manufg. Company, Nashua, N. H. Cotton blankets. Nos. 131,195–6; May 4; v. 274; p. 199.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 130,839; May 4; v. 274; p. 188.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 131,194; May 4; v. 274; p. 199.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 131,349–56; May 11; v. 274; p. 401.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 131,558–61; May 18; v. 274; p. 606.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 131,197; May 4; v. 274; p. 199.
National Blue Corporation, New York, N. Y. Laundry blue. Nos. 131,813–5; May 25; v. 274; p. 832.
National Fruit Flavor Co., New Orleans, La. Flavoring extracts for food. No. 130,840; May 4; v. 274; p. 188.
National Grave Vault Company, Galion, Ohio. Grave-vaults. No. 130,841; May 4; v. 274; p. 188.
National Mills, Spartanburg, S. C. Hosiery. No. 131,198; May 4; v. 274; p. 199.
National Musical String Company, New Brunswick, N. J. Pitch-pipes. No. 131,806; May 25; v. 274; p. 833.
National Pecan Growers Exchange, Albany, Ga. Pecan-nuts. No. 131,357; May 11; v. 274; p. 401.
National Pecan Growers Exchange, Albany, Ga. Pecan-nuts. No. 131,807; May 25; v. 274; p. 833.
National Shirt Shops, Inc., New York, N. Y. Garments for men. No. 130,842; May 4; v. 274; p. 188.
National Transit Pump & Machine Company, Oil City, Pa. Steam-driven pumps, oil-engines, air-compressors, pipe-stocks, &c. No. 130,843; May 4; v. 274; p. 188.
National Tube Company, Pittsburgh, Pa. Metal pipe-couplings, pipes, tubes, and casings. No. 131,562; May 18; v. 274; p. 606.
Naumkeag Steam Cotton Co., Salem, Mass. Pillow-cases. No. 131,199; May 4; v. 274; p. 199.
Nayberger, Joseph B., McMinnville, Oreg. Hair-tonic. No. 131,563; May 18; v. 274; p. 606.
Nebeling, Edmund R., New York, N. Y. Alloyed platinum. No. 130,844; May 4; v. 274; p. 188.
Nebraska Fountain & Supply Co., Omaha, Nebr. Topping for ice-cream sundaes and hot chocolate. No. 130,845; May 4; v. 274; p. 188.
Nevada Chemical Company, Philadelphia, Pa. Plant-tonic. No. 131,200; May 4; v. 274; p. 199.
New-Energy Appliance Company, Boston, Mass. Suspensory straps. No. 130,846; May 4; v. 274; p. 188.
New England Enameling Company, Middletown, Conn. Metal ware. No. 131,564; May 18; v. 274; p. 606.
New Jersey Foundry & Machine Co., Garwood, N. J., and New York, N. Y. Trolleys, cranes, tongs, and portable elevators. No. 130,848; May 4; v. 274; p. 188.
New York Pacific Commercial Co., Inc., San Francisco, Calif. Canned salmon. No. 130,849; May 4; v. 274; p. 188.
Newball Chain Forge & Iron Co., New York, N. Y. Iron and steel chains and chain-slugs. No. 130,847; May 4; v. 274; p. 188.
Newman, William, Alexandria, Va. Shoe-polishing paste. No. 131,201; May 4; v. 274; p. 199.
Nichols Underwear Corporation, The, Bridgeport, Conn. Straight and bias binding-strips, woven and knitted tapes, and stocking-supporters. No. 131,917; May 25; v. 274; p. 836.
Nitrate Agencies Company, New York, N. Y. Insecticides. No. 131,565; May 18; v. 274; p. 606.
Nitrogen Electric Company, Newark, N. J. Incandescent electric lamps, and especially nitrogen-filled lamps. No. 131,808; May 25; v. 274; p. 833.
Niven, Maxim, Chicago, Ill. Glass bottles. No. 130,850; May 4; v. 274; p. 188.
Noble Dairy Farms, Inc., New York, N. Y. Condensed milk. No. 131,202; May 4; v. 274; p. 199.
Nordham, Ivan B., Company, New York, N. Y. Bread. No. 131,566; May 18; v. 274; p. 606.
Nowlin, A. S., & Co., Lynchburg, Va. Coal. No. 130,851; May 4; v. 274; p. 188.
Nulomoline Company, New York, N. Y., The. Cane-syrup, non-alcoholic maltless beverages. No. 131,809; May 25; v. 274; p. 833.
Nu-Way Stretch Suspender Company, Adrian, Mich. Suspenders and garters. No. 131,203; May 4; v. 274; p. 199.
Nulomoline Company, The, New York, N. Y. Table-syrups. No. 130,852; May 4; v. 274; p. 188.
Ogur, Eugene, Jersey City, N. J. Shampoo and hair-tonic. No. 131,567; May 18; v. 274; p. 606.
Oneida Community Limited, Oneida, N. Y. Plated flat-ware. No. 131,204; May 4; v. 274; p. 199.
Oro-Tone Co., The, Chicago, Ill. Phonographs and sound-boxes and tone-arms for same. No. 131,568; May 18; v. 274; p. 606.
Osborn Paper Company, Marion, Ind. Writing and printing papers and tablets. Nos. 131,810–11; May 25; v. 274; p. 833.
Osmundson, Chris, Webster City, Iowa. Spades, shovels. No. 130,854; May 4; v. 274; p. 188.
Otis Co., Ware and Three Rivers, Mass. Cotton piece goods. No. 130,855; May 4; v. 274; p. 189.
Otorino Manufacturing Company, New York, N. Y. Medicine for the diseased mucous membrane of the nose, throat, mouth, and ear. No. 131,358; May 11; v. 274; p. 401.
Oversmith, Clarence D., Davenport, Iowa. Electric advertising display apparatus. No. 130,856; May 4; v. 274; p. 189.
Owl Drug Co., The, Decatur, Ala. Liquid compounds for treating certain named diseases and affections. No. 131,812; May 25; v. 274; p. 833.
Pacific Mills., Lawrence and Boston, Mass. Cotton piece and cotton dress goods. No. 131,205; May 4; v. 274; p. 199.
Pacific Nitrosoil Company, San Francisco, Calif. Fertilizing culture of nitrogen-fixing bacteria. No. 131,813; May 25; v. 274; p. 833.
Pacific Novelty Company, New York, N. Y. Dolls. No. 130,857; May 4; v. 274; p. 189.
Packer Auto Specialty Co., Chicago, Ill. Wrenches. No. 131,359; May 11; v. 274; p. 401.
Page-Connell Coffee Company, St. Joseph, Mo. Coffee, tea, and flavoring extracts. No. 131,360; May 11; v. 274; p. 401.
Page, Leonard G., St. Joseph, Mo. Mixture which comprises chilli peppers, comino, &c. No. 130,858; May 4; v. 274; p. 189.
Palnut Corporation, Buffalo, N. Y. Nut-locks. No. 130,860; May 4; v. 274; p. 189.
Paraffine Companies, Inc., The, San Francisco, Calif. Liquid paints, varnishes, and paint compounds. No. 131,815; May 25; v. 274; p. 833.
Parisian Mfg. Company, Philadelphia, Pa. Hair-wavers. No. 131,206; May 4; v. 274; p. 199.
Paristyle Novelty Co., Inc., New York, N. Y. Hair-nets. No. 131,570; May 18; v. 274; p. 606.
Parker, Frederick R., Chicago, Ill. Cold-cream. No. 131,571; May 18; v. 274; p. 607.
Parsons Chemical Works, Grand Ledge, Mich. Medicated food for live stock. No. 130,861; May 4; v. 274; p. 189.
Parzinger, Meinrad M., Linden Heights, Ohio. Medicinal salve. No. 131,816; May 25; v. 274; p. 833.
Pathe Freres Phonograph Company., Wilmington, Del., and Brooklyn, N. Y. Disks for talking-machines. No. 131,817; May 25; v. 274; p. 833.
Pearl City Fruit Co. Ltd., Honolulu, Hawaii. Pineapple-extract syrup. No. 131,572; May 18; v. 274; p. 607.
Peerless Mineral Products Co., Inc., New York, N. Y. Soap. No. 131,207; May 4; v. 274; p. 199.
Peerless Motor Car Company, The, Cleveland, Ohio. Automobiles and motor-trucks. No. 130,862; May 4; v. 274; p. 189.
Peet Bros. Manufacturing Company, Kansas City, Kans. Soap. No. 131,208; May 4; v. 274; p. 199.
Pennsylvania Lawn Mower Works. (See Braun, John & Sons, assignors.)
Peppas, Vasili, Braddock, Pa. Salve for wounds, sores, &c. No. 131,573; May 18; v. 274; p. 607.
Pepsotone Company, Huntington, W. Va. Medicated oil for certain named affections and diseases. No. 131,574; May 18; v. 274; p. 607.
Perkins Dry Goods Company, Dallas, Tex. Work-clothing for men and boys. No. 131,209; May 4; v. 274; p. 199.
Perfek'tone Corporation, The, Philadelphia, Pa. Talking-machines. No. 131,818; May 25; v. 274; p. 833.

Peters, Arnold B., San Francisco, Calif. Tooth-powder. No. 131,575; May 18; v. 274; p. 607.
Peters Manufacturing Co., Boston, Mass. Shoe fabrics. No. 130,863; May 4; v. 274; p. 189.
Petroleum Products Co., San Francisco, Calif. Gasolene, benzin, distillate, &c. No. 131,819; May 25; v. 274; p. 833.
Pettijohn Pure Products Co., Minneapolis, Minn. Wheat pancake-flour, parched bran, Indian mixture, &c. No. 131,576; May 18; v. 274; p. 607.
Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Drying machinery for the manufacture of clay and ceramic products. No. 131,361; May 11; v. 274; p. 401.
Philadelphia Malt Extract Company, Philadelphia, Pa. Bakers' and confectioners' syrup. No. 131,210; May 4; v. 274; p. 199.
Philadelphia Roll & Machine Company, Philadelphia, Pa. Castings, forgings, and rolled products of iron and steel. No. 130,864; May 4; v. 274; p. 189.
Philadelphia Roll & Machine Company, Philadelphia, Pa. Alloy rolls for rolling-mills, &c. No. 130,865; May 4; v. 274; p. 189.
Phillips-Doscher Corporation, New York, N. Y. Knitted undershirts and union-suits for women. No. 131,211; May 4; v. 274; p. 199.
Philo Derma Company, Chicago, Ill. Cosmetics. No. 131,577; May 18; v. 274; p. 607.
Piedmont Motor Car Company, Inc., Lynchburg, Va. Passenger-automobiles and motor-trucks. No. 131,212; May 4; v. 274; p. 199.
Pierce, S. S., Co., Boston, Mass. Lime-juice and grape-juice. No. 131,820; May 25; v. 274; p. 833.
Pierce, W. Irving, Fall River, Mass. Paints and painters' materials. No. 131,918; May 25; v. 274; p. 836.
Pierre, Joseph M., Fort Wayne, Ind. Preparation for the treatment of asthma, bronchitis, burns, &c. No. 131,362; May 11; v. 274; p. 401.
Pinder, Walter J., Orlando, Fla. Cigars and cigarettes. No. 130,866; May 4; v. 274; p. 189.
Piso Company, The, Warren, Pa. Preparation for coughs and colds. No. 131,363; May 11; v. 274; p. 401.
Pitard's, Inc., New Orleans, La. Tools. No. 131,213; May 4; v. 274; p. 199.
Plough, Abraham, Memphis, Tenn. Writing-tablets. No. 131,821; May 25; v. 274; p. 833.
Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 130,867; May 4; v. 274; p. 189.
Pneumercator Company, New York, N. Y. Measuring appliances. No. 131,822; May 25; v. 274; p. 833.
Ponge, R. C., Milling Co., Ashland, Ky. Flour. No. 131,214; May 4; v. 274; p. 199.
Poliak Steel Company, The, Cincinnati, Ohio. Locomotive and machinery axles, shafts, and gears. No. 131,364; May 11; v. 274; p. 401.
Polonia Drug Company, The, Philadelphia, Pa. Liniments for muscular pains, &c. No. 131,823; May 25; v. 274; p. 833.
Polonia Phonograph Co., Inc., New York, N. Y. Phonographs, mechanical motors for same, record-needles, &c. No. 130,868; May 4; v. 274; p. 189.
Pomona Products Co., Pomona, Ga. Canned red peppers, pimento sauce, &c. No. 131,919; May 25; v. 274; p. 836.
Power Manufacturing Company, Marion, Ohio. Gas-engines. No. 131,215; May 4; v. 274; p. 199.
Pratt Bread Company, Boston, Mass. Bread. No. 130,869; May 4; v. 274; p. 189.
Pratt & Lambert—Inc., Buffalo, N. Y. Aeroplane-dope (a preparation for coating, shrinking, and filling the cloth wings of aeroplanes). No. 131,580; May 18; v. 274; p. 607.
Pratt, Milan F., Rochester, N. Y. Remedies to correct an acid condition of the stomach. No. 131,578; May 18; v. 274; p. 607.
Pratt & Whitney Company, New York, N. Y. Dimension-gages and attachments therefor. No. 130,870; May 4; v. 274; p. 189.
Precision Instrument Company, Detroit, Mich. Measuring and scientific appliances. No. 131,579; May 18; v. 274; p. 607.
Precision Instrument Company, Detroit, Mich. Measuring and scientific appliances. No. 131,824; May 25; v. 274; p. 833.
Prince Lauten Co., New York, N. Y. Cotton goods in the piece. No. 131,581; May 18; v. 274; p. 607.
Prince Macaroni Mfg. Co., Boston, Mass. Macaroni. No. 130,871; May 4; v. 274; p. 189.
Procter and Gamble Company, The, Cincinnati, Ohio. Refined candle-tar for roofing compositions. No. 131,216; May 4; v. 274; p. 199.
Prussian, Samuel W., Cambridge, Mass. Power-hoists. No. 131,365; May 11; v. 274; p. 401.
Pure Beverage Company, Toledo, Ohio. Non-alcoholic beverage. No. 131,582; May 18; v. 274; p. 607.
Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 131,583; May 18; v. 274; p. 607.
Pyro Products Company, Chicago, Ill. Fire-brick. No. 130,872; May 4; v. 274; p. 189.
Quinebaug Company, Danielson, Conn. Piece goods—namely, shirtings. No. 131,584; May 18; v. 274; p. 607.
Raab, Charles, Philadelphia, Pa. Ladies' blouses and shirt-waists. No. 130,873; May 4; v. 274; p. 189.
Radium Luminous Material Corporation, New York, N. Y. Luminous material. No. 131,585; May 18; v. 274; p. 607.
Rafael del Castillo & Co., New York, N. Y. Wheat-flour. No. 130,668; May 4; v. 274; p. 182.
Rainier Products Company, Seattle, Wash. Birch and root beer, sarsaparilla, ginger-ale, and cider. No. 131,587; May 18; v. 274; p. 607.
Rand, Donald A., Stoughton, Mass. Chocolates. No. 131,586; May 18; v. 274; p. 607.
Randall-McLoughlin Co., Seattle, Wash. Fertilizers. No. 131,825; May 25; v. 274; p. 833.
Ray & Frazier, Florence, S. C. Non-alcoholic beverages. No. 130,889; May 4; v. 274; p. 190.
Record Card Co., New York, N. Y. Filing-cards. No. 130,874; May 4; v. 274; p. 189.
Reid Bros., Inc., San Francisco, Calif., and Seattle, Wash. Measuring and scientific appliances. No. 130,875; May 4; v. 274; p. 189.
Reinhard, Marie A., New Orleans, La. Blended coffee. No. 131,920; May 25; v. 274; p. 836.
Reinhardt, George W., Co., Boston, Mass. House and roofing paints. No. 131,826; May 25; v. 274; p. 833.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 130,876; May 4; v. 274; p. 189.
Reliance Wheel Co., Youngstown, Ohio. Pressed-steel disk wheels for automobiles and aeroplanes. No. 130,890; May 4; v. 274; p. 190.
Remiller Company, The, New York, N. Y. Toilet preparations. No. 131,588; May 18; v. 274; p. 607.
Renaker, Leon, Winchester, Ky. Eggs. No. 131,218; May 4; v. 274; p. 199.
Retail Grocers Syndicate, Inc., Worcester, Mass. Foods and ingredients of foods. No. 131,217; May 4; v. 274; p. 199.
Reversible Collar Company, Boston and Cambridge, Mass. Collars, cuffs, bosoms. No. 131,219; May 4; v. 274; p. 199.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Smoking and chewing tobacco. No. 130,879; May 4; v. 274; p. 189.
Reynolds, Wm. T., & Co., Poughkeepsie, N. Y. Butter, olive-oil, rice, dried fruits, coffee. No. 130,877; May 4; v. 274; p. 189.
Reznikove, Abraham, Sharon, Pa. Bread. No. 130,878; May 4; v. 274; p. 189.
Rhoads, Edwin K., Philadelphia, Pa. Bedspreads, sheets, pillow-cases, sheeting. No. 131,220; May 4; v. 274; p. 199.
Rhodenbaugh, Isaiah F., Fort Wayne, Ind. Preparation for use in the treatment of piles. No. 131,590; May 18; v. 274; p. 607.
Rice & Hutchins, Incorporated, Boston, Mass. Boots, shoes, and slippers. No. 130,880; May 4; v. 274; p. 189.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton drills in the piece. No. 131,221; May 4; v. 274; p. 200.
Rice-Stix Dry Goods Company, St. Louis, Mo. Suspenders, garters, hose-supporters, &c. No. 130,881; May 4; v. 274; p. 189.
Rice-Stix Goods Company, St. Louis, Mo. Woven elastics in the piece. No. 131,592; May 18; v. 274; p. 607.
Richards & Brennan Co., Randolph, Mass. Boots and shoes. No. 130,882; May 4; v. 274; p. 189.
Richardson-Phenix Co., The, Milwaukee, Wis. Mechanical lubricators and oiling devices. No. 131,589; May 18; v. 274; p. 607.
Richardson Silk Co., Chicago, Ill. Silk threads, cotton yarns and threads. No. 131,222; May 4; v. 274; p. 200.
Richter, F. Ad. & Co., New York, N. Y. Liniment. Nos. 131,593–4; May 18; v. 274; p. 607.
Richter, F. Ad. & Co., New York, N. Y. Medicinal preparations. No. 131,595; May 18; v. 274; p. 607.
Ridgway, Herbert N., Revere, Mass. Amusement devices. No. 130,883; May 4; v. 274; p. 189.
Ripley, Edward, & Son, Ltd., Bradford, England. Rain-coats. No. 130,884; May 4; v. 274; p. 189.
Ritter Brothers, New York, N. Y. Ladies' coats and suits. No. 130,885; May 4; v. 274; p. 189.
Ritter Hosiery Company, Fleetwood, Pa. Men's hosiery. No. 130,886; May 4; v. 274; p. 189.
Riverside Boiler Works, Inc., Cambridgeport, Mass. Tanks and tanks for hot water. Nos. 130,887–8; May 4; v. 274; pp.189–90.
Roanoke City Mills, Roanoke, Va. Self-rising wheat-flour. No. 130,892; May 4; v. 274; p. 190.
Roanoke City Mills, Roanoke, Va. Wheat-flour. No. 130,891; May 4; v. 274; p. 190.
Robert, Joseph, Paris, France. Medicinal preparations. No. 131,596; May 18; v. 274; p. 607.
Robinson, George T., South Portland, Me. Puzzles. No. 130,893; May 4; v. 274; p. 190.
Robinson Milling Co., The, Salina, Kans. Wheat-flour. No. 130,894; May 4; v. 274; p. 190.
Roessel, Louis (& Co.) Inc., New York, N. Y. Silk piece goods. No. 131,827; May 25; v. 274; p. 833.
Rohm & Haas Company, Philadelphia, Pa. Anhydrous sodium hydrosulfite. No. 131,598; May 18; v. 274; p. 607.
Rohm & Haas Company, Philadelphia, Pa. Chemical used for tanning hides. No. 131,599; May 18; v. 274; p. 607.
Rohm & Haas Company, Philadelphia, Pa. Sulfoxilate of sodium formaldehyde. No. 131,600; May 18; v. 274; p. 608.

Roofbestos Manufacturing Co., St. Louis, Mo. Prepared roofing. No. 131,921; May 25; v. 274; p. 836.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. Nos. 131,223–26; May 4; v. 274; p. 200.
Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 131,227; May 4; v. 274; p. 200.
Ross, W. A., & Sons, Limited, Belfast, Ireland. Mineral and aerated waters, natural and artificial. No. 131,366; May 11; v. 274; p. 401.
Rothman, Eugene, New York, N. Y. Watches, clocks, alarm-clocks. No. 130,895; May 4; v. 274; p. 190.
Rothschild, A. H., New York, N. Y. Waterproofing plastic or semiplastic compound. No. 131,922; May 25; v. 274; p. 836.
Roulston, Thos., Inc., Brooklyn, N. Y. Bread. No. 130,896; May 4; v. 274; p. 190.
Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Artificial-silk fabrics. No. 131,228; May 4; v. 274; p. 200.
Rudd, Anne H., St. Louis, Mo. Pharmaceutical preparations. No. 131,601; May 18; v. 274; p. 608.
Rueckheim Bros. & Eckstein, Chicago, Ill. Chocolate candies. No. 130,897; May 4; v. 274; p. 190.
Ruff's, A., Sons, Butler, Pa. Boots and shoes. No. 130,898; May 4; v. 274; p. 190.
Ruggles, Frank W., Alma, Mich. Motor-trucks. No. 131,229; May 4; v. 274; p. 200.
Rupert, A., Company, Inc., Portland, Oreg. Canned fruits and beets. No. 131,923; May 25; v. 274; p. 836.
Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 130,899; May 4; v. 274; p. 190.
Russell Jobbers' Mills, Oklahoma, Okla. Peanut-butter, vinegar, rice, &c. No. 131,230; May 4; v. 274; p. 200.
Russell, Thos., & Son, Liverpool England. Watches and clocks. No. 130,900; May 4; v. 274; p. 190.
Rye-Ola Company, Birmingham, Ala. Ginger-ale. No. 131,602; May 18; v. 274; p. 608.
S. & P. Manufacturing Co. Inc., New York, N. Y. Valve-grinding compounds. No. 131,231; May 4; v. 274; p. 200.
Saberton Mfg. Co., Tampa, Fla. Medicated soap. No. 131,603; May 18; v. 274; p. 608.
Safe-Cabinet & Company, The, Marietta, Ohio. Document-files. No. 130,901; May 4; v. 274; p. 190.
Salem Manufacturing Company, Salem, N. J., and New York, N. Y. Imitation linoleum: No. 131,828; May 25; v. 274; p. 833.
Samoset Chocolates Co., Boston, Mass. Candies. No. 130,902; May 4; v. 274; p. 190.
Sampson, Archibald T., Lynn, Mass. Electric conduits, lighting and power fixtures. No. 131,604; May 18; v. 274; p. 608.
Samstag & Hilder Bros., New York, N. Y. Infants' pants. No. 130,903; May 4; v. 274; p. 190.
Samstag & Hilder Bros., New York, N. Y. Marcel and water waver. No. 131,232; May 4; v. 274; p. 200.
Sangoff, Peter, Worcester, Mass. Coats. No. 131,233; May 4; v. 274; p. 200.
Sanitary Engineering Company, Charlotte, N. C. Septic tanks. No. 131,605; May 18; v. 274; p. 608.
Sanitary Phone Corporation, New York, N. Y. Sanitary protectors for telephone-transmitters. No. 130,904; May 4; v. 274; p. 190.
Sato, Genshiro, Seattle, Wash. Wooden toys. No. 130,905; May 4; v. 274; p. 190.
Schaefer, William H., New York, N. Y. Inhalers. No. 130,906; May 4; v. 274; p. 190.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage. No. 131,606; May 18; v. 274; p. 608.
Scheminger, John, Jr., Providence, R. I. Hydrocarbon-burners. No. 131,897; May 25; v. 274; p. 835.
Schiller, S. New York, N. Y. Women's, men's and children's hats. No. 130,907; May 4; v. 274; p. 190.
Schlesinger, Richard M., New Athens, Ill. Ginger-ale. No. 131,618; May 18; v. 274; p. 608.
Schmid, Julius, Incorporated, New York, N. Y. Face-powders, talcum powder, compacts, lip-salve, &c. No. 131,607; May 18; v. 274; p. 608.
Schofield Oil Co., Inc., New York, N. Y. Soap. No. 131,234; May 4; v. 274; p. 200.
Schumacher, Frank M., New Orleans, La. Leather boots and shoes for men. No. 130,908; May 4; v. 274; p. 190.
Schwab, Jules, & Co., New York, N. Y. Bead and metal bags, beaded sautoirs, necklaces. No. 131,608; May 18; v. 274; p. 608.
Schwarz, Max, New York, N. Y. Voiles in the piece. No. 131,619; May 18; v. 274; p. 608.
Scientific Products Company, Steubenville, Ohio, and New Cumberland, W. Va. Electric warming-pads. No. 130,909; May 4; v. 274; p. 190.
Scott-Fetzer Company, The, Cleveland, Ohio. Hand-operated suction carpet-sweepers. No. 131,367; May 11; v. 274; p. 401.
Screencraft Pictures, Inc., New York, N. Y. Moving-picture films. No. 130,910; May 4; v. 274; p. 190.
Sears and Nichols Canning Company, Chillicothe, Ohio. Canned vegetables. No. 130,912; May 4; v. 274; p. 190.
Sears, Roebuck and Co., Chicago, Ill. Candy. Nos. 131,235–6; May 4; v. 274; p. 200.
Sears, Roebuck and Co., Chicago, Ill. Wool knitting-yarn. No. 131,829; May 25; v. 274; p. 833.
Select Products Sales Corporation, New York, N. Y. Chemical fire-extinguishing-powder compound. No. 131,368; May 11; v. 274; p. 402.
Selz, Abraham, Chicago, Ill. Dry cleaner for fabrics and leather. No. 131,237; May 4; v. 274; p. 200.
Sentanel Remedies Company, The, Cincinnati, Ohio. Laxative preparation. No. 131,610; May 18; v. 274; p. 608.
Seydel Manufacturing Company, Jersey City, N. J. Sizing and finishing compounds for textile fabrics and threads. No. 131,609; May 18; v. 274; p. 608.
Seydel Manufacturing Company, Jersey City, N. J. Chemicals. No. 131,830; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Alkaline antiseptic suppositories. No. 131,611; May 18; v. 274; p. 608.
Sharp & Dohme, Baltimore, Md. Alternative antiseptic ointment. No. 131,833; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Antiseptic antipruritis ointment. No. 131,834; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Digestive compound. No. 131,832; May 25; v. 274; p. 833.
Sharp & Dohme, Baltimore, Md. Rubefacient ointment. No. 131,831; May 25; v. 274; p. 833.
Shea Oar Co., Springfield, Mass. Oars and paddles. No. 131,924; May 25; v. 274; p. 836.
Shearer, Carl L., Oneonta, N. Y. Non-alcoholic non-cereal maltless beverages and syrups for making the same. No. 131,835; May 25; v. 274; p. 833.
Shedd, W. J., Company, The, Wilmington, Del., and Chicago, Ill. Coffee. No. 131,836; May 25; v. 274; p. 833.
Sheep and Cattle Men's Supply Manufacturing Company, Cheyenne, Wyo., and Salt Lake City, Utah. Live-stock-dipping powder and fluid. No. 131,620; May 18; v. 274; p. 608.
Sheldon, George C., Nehawka, Nebr. Concrete-mixers. No. 130,913; May 4; v. 274; p. 190.
Sherwood Bros., Baltimore, Md. Gasolene. No. 131,925; May 25; v. 274; p. 836.
Sh-h-! Company, New York, N. Y. Non-alcoholic beverages. No. 131,591; May 18; v. 274; p. 607.
Shields, John D., Chaplin, Ky. Veterinary medicine for outward application. No. 131,612; May 18; v. 274; p. 608.
Shifrin, Adolph, Brooklyn, N. Y. Salves and ointments. No. 131,369; May 11; v. 274; p. 402.
Shoe Hardware Company, The, Waterbury, Conn. Buckles. No. 130,913; May 4; v. 274; p. 190.
Shoup, Forest F., Brooklyn, N. Y. Coffee substitute. No. 130,915; May 4; v. 274; p. 190.
Shurelix Manufacturing Co., Seattle, Wash. Filler for pneumatic tires. No. 131,837; May 25; v. 274; p. 833.
Shutter-Johnson Candy Co., Chicago, Ill. Candy. No. 130,916. May 4; v. 274; p. 190.
Shutter Johnson Candy Co., Chicago, Ill. Candies. No. 131,510; May 18; v. 274; p. 604.
Siegle, G., Company, Rosebank, assignor to G. Siegle Corporation of America, New York, N. Y. Colors for a combination of uses. No. 131,621; May 18; v. 274; p. 608.
Siegle, G., Corporation of America. (See Siegle, G., Company, assignor.)
Silverman, Eugene J., Akron, Ohio. Finger-rings and broaches. No. 131,613; May 18; v. 274; p. 608.
Silverman, Joseph, Baltimore, Md. Suspenders, garters, armbands, &c. No. 130,917; May 4; v. 274; p. 190.
Simmons Hardware Company, St. Louis, Mo. Watches. No. 130,918; May 4; v. 274; p. 190.
Simmons Hardware Company, St. Louis, Mo. Glue. No. 131,838; May 25; v. 274; p. 834.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 130,919; May 4; v. 274; p. 190.
Singer, Julius S., Chicago, Ill. Dyes in soap form. No. 131,614; May 18; v. 274; p. 608.
Singer, Philip A., & Bro., Newark, N. J. Dressed furs for use in apparel. No. 130,920; May 4; v. 274; p. 190.
Singer, Samuel A., Boston, Mass. Hosiery. No. 130,921; May 4; v. 274; p. 191.
Sizer Forge Company, Buffalo, N. Y. Steel forgings. No. 131,622; May 18; v. 274; p. 608.
Skinner Manufacturing Company, Omaha, Nebr. Macaroni, vermicelli, and noodles. No. 131,370; May 11; v. 274; p. 402.
Skowbo Co., The, Spokane, Wash. Liquid face-cream. No. 131,615; May 18; v. 274; p. 608.
Slatedale Knitting Mills, Harrisburg, Pa. Hose for men, women, and children. No. 130,922; May 4; v. 274; p. 191.
Slater & Morrill, Incorporated, South Braintree, Mass. Boots or shoes. No. 131,238; May 4; v. 274; p. 200.
Slimpson, Edwin B., Company, Brooklyn, N. Y. Lacing-hooks for shoes. No. 131,927; May 25; v. 274; p. 836.
Slim, Pedro, Mexico, Mexico. Snap-fasteners. No. 131,623 May 18; v. 274; p. 608.
Smart & Final Co., Santa Ana, Calif. Roasted coffee in packages. No. 130,923; May 4; v. 274; p. 191.
Smith, Lillian W., Cape Charles, Va. Fresh potatoes. No. 130,924; May 4; v. 274; p. 191.
Società Industrie Chimiche Ittiolo, Naples, Italy. Soaps for hygienic and medical purposes. No. 131,239; May 4; v. 274; p. 200.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Blackings, creams, and polishes for all kinds of leather articles. No. 131,839; May 25; v. 274; p. 834.
Societe Anonyme La Bruyere, Paris and St. Claude, France, Tobacco-pipes. No. 130,925; May 4; v. 274; p. 191.

Societe des Moteurs Gnome et Rohne, Paris, France. Lubricating oils and greases. No. 131,840; May 25; v. 274; p. 834.
Société Industrielle des Specialites Techniques S. A., Emmenbrücke-Lucerne, Switzerland. Mechanical razor-stroppers. No. 131,624; May 18; v. 274; p. 608.
Société La Perle Saskia, Paris, France. Pearls, collars of pearls, and jewelry adorned with pearls. No. 131,841; May 25; v. 274; p. 834.
Société Rodier, Paris, France. Textile fabrics. No. 131,597; May 18; v. 274; p. 607.
Solace Comfort Service Corporation, New York, N. Y. Sanitary napkins. No. 130,926; May 4; v. 274; p. 191.
Southern Extract & Spice Co., Greenville, S. C. Flavoring extracts for ice-cream, &c. No. 131,926; May 25; v. 274; p. 836.
Southern Sales Corporation, New York, N. Y. Caustic soda, chlorid of lime, &c. No. 131,625; May 18; v. 274; p. 608.
Southwest Cotton Company, Phoenix, Ariz. Baled cotton. No. 130,927; May 4; v. 274; p. 191.
Southwestern Coca-Cola Bottling Co., Deming, N. Mex. Ginger-ale No. 131,842; May 25; v. 274; p. 834.
Sparks Milling Company, Alton, Ill., and Terre Haute, Ind. Wheat-flour. No. 131,240; May 4; v. 274; p. 200.
Speight, Walter E., Jacksonville, Fla. Preparation used as a tonic for chills and fever. No. 131,616; May 18; v. 274; p. 608.
Spencer, Sally M., Chicago, Ill. Cleaning preparation for fabrics. No. 131,617; May 18; v. 274; p. 608.
St. Louis Rubber Cement Co., St. Louis, Mo. Rubber cements, tread-filler, tire-tape, &c. No. 131,846; v. 274; p. 834.
St. Paul Garment Mfg. Co., St. Paul, Minn. Outer coats and vests for men, women, and children. No. 131,847; May 25; v. 274; p. 834.
Standard Chemical Works, Reading, Pa. Combined insecticide and fungicide. Nos. 131,626–7; May 18; v. 274; p. 608.
Standard, O. L., Dry Goods Company, Huntington, W. Va. Knitted hosiery, underwear, and sweaters, work-shirts for men and boys. No. 131,241; May 4; v. 274; p. 200.
Standard Oil Company of New York, New York, N. Y. Kerosene, gasolene, naphtha, &c. No. 131,844; May 25; v. 274; p. 834.
Standard Oil Company of New York, New York, N. Y. Refined oil. No. 131,843; May 25; v. 274; p. 834.
Standard Parts Company, The, Cleveland Ohio. Vehicle axles and springs. No. 130,928; May 4; v. 274; p. 191.
Standard Products Supply Co., Minneapolis, Minn. Honey, peanut-butter, and ice-cream cones. No. 131,628; May 18; v. 274; p. 608.
Standard Union Company, Augusta, Me., and Boston, Mass. Pipe joints or couplings. No. 131,629; May 18; v. 274; p. 608.
Stanley Rule & Level Company, The, New Britain, Conn. Carpenter's planes. No. 131,371; May 11; v. 274; p. 402.
Star Oil Company, Chicago, Ill. Automobile dynamo, crank-case, &c., lubricating oils and greases. No. 131,630; May 18; v. 274; p. 608.
Sterling Products Company, Cleveland, Ohio. Construction material. No. 131,242; May 4; v. 274; p. 200.
Stern, Charles & Sons, Inc., Los Angeles, Calif. Canned fruits. No. 131,243; May 4; v. 274; p. 200.
Stern Milling Company, Inc., Milwaukee, Wis. Rye-flour. Nos. 130,930–1; May 4; v. 274; p. 191.
Stewart Motor Corporation, Buffalo, N. Y. Motor-trucks and passenger-automobiles. No. 130,932; May 4; v. 274; p. 191.
Stickney Color Company, Indianapolis, Ind. A polish for varnished and enameled surfaces. No. 131,845; May 25; v. 274; p. 834.
Stiles-Pellens Coffee Co., Cincinnati, Ohio. Tea, spices, cocoa, &c. No. 131,244; May 4; v. 274; p. 200.
Stokes Milling Co., Watertown, S. D. Wheat-flour. No. 130,933; May 4; v. 274; p. 191.
Stollwerck Brothers, Inc., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass. Chocolate and cocoa. No. 130,934; May 4; v. 274; p. 191.
Stout, Charles F., Rice Lake, Wis. Cigars. No. 130,935; May 4; v. 274; p. 191.
Strohmeyer & Arpe Company, New York, N. Y. Foods and ingredients of foods. No. 130,936; May 4; v. 274; p. 191.
Struthwear Knitting Company, Minneapolis, Minn. Hosiery. No. 131,848; May 25; v. 274; p. 834.
Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 131,245; May 4; v. 274; p. 200.
Sue, Narm S., Modesto, Calif. Medicinal preparation for the treatment of influenza. No. 131,631; May 18; v. 274; p. 609.
Sunbeam Chemical Company, Chicago, Ill. Pharmaceutical preparation for skin diseases. No. 131,372; May 11; v. 274; p. 402.
Sunnyland Fruit Company, Inc., New York, N. Y. Candies. No. 130,938; May 4; v. 274; p. 191.
Swift and Company, Chicago, Ill. Hams, bacon, and shoulders. No. 130,940; May 4; v. 274; p. 191.
Swift and Company, Chicago, Ill. Hog feed. No. 131,632; May 18; v. 274; p. 609.
Symington, T. H., Company, The, New York and Rochester, N. Y. Malleable castings. No. 131,633; May 18; v. 274; p. 609.
Szczepkowski, Miroslav, Chicago, Ill. Medicine for indigestion, kidney trouble, constipation, &c. No. 131,849; May 25; v. 274; p. 834.
Tampa Dairy Co., Tampa, Fla. Ice-cream. No. 130,941; May 4; v. 174; p. 191.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 130,942; May 4; v. 174; p. 191.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 131,634; May 18; v. 274; p. 609.
Tatum Co., Samuel C., Cincinnati, Ohio. Calendar-pads. No. 131,850; May 25; v. 274; p. 834.
Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. No. 131,851; May 25; v. 274; p. 834.
Templar Motors Corporation, Cleveland, Ohio. Automobiles and motor-cars. No. 131,246; May 4; v. 274; p. 200.
Textile Products Manufacturing Company, St. Louis, Mo. Overalls, jumpers, and work-shirts. No. 130,943; May 4; v. 274; p. 191.
Theodoropoulos, Alexander, New York, N. Y. Ointment for piles. No. 131,635; May 18; v. 274; p. 609.
Thom, Charles H., Los Angeles, Calif. Bottled carbonated non-alcoholic non-cereal maltless beverage. No. 131,636; May 18; v. 274; p. 609.
Thompson, Gwladys G., St. Louis, Mo. Negligées. No. 130,944; May 4; v. 274; p. 191.
Thompson, Victoria, Jacksonville, Fla. Preparation for destroying boll-weevils, &c. No. 131,637; May 18; v. 274; p. 609.
Thornton Mineral Springs Company, Thornton, Ill. Non-alcoholic beverages and syrups for making same. No. 131,638; May 18; v. 274; p. 609.
Thrill Exploiting Co., The, Philadelphia, Pa. Non-alcoholic non-cereal maltless beverage and syrup for making same. No. 131,639; May 18; v. 274; p. 609.
Tiffany Furnaces, New York, N. Y. Glassware. No. 131,757; May 25; v. 274; p. 831.
Tilden Company, New Lebanon, N. Y., and St. Louis, Mo. Anodyne, antiseptic, and local anesthetic. No. 131,852; May 25; v. 274; p. 834.
Timmons, Charles S., Snow Hill, Md. Raw potatoes. No. 130,945; May 4; v. 274; p. 191.
Tipp Whip Company, The, Tippecanoe City, Ohio. Liquid and paste shampoos. No. 131,853; May 25; v. 274; p. 834.
Titanine, Inc., New York, N. Y. Preparation for preserving waterproofing and coloring textile fabrics, &c. No. 131,854; May 25; v. 274; p. 834.
Toledo Fuel Company, The, Toledo, Ohio. Fuel-oils. No. 131,855; May 25; v. 274; p. 834.
Toomay Company, Boston, Mass. Finished leather in the piece. No. 130,946; May 4; v. 274; p. 191.
Townsend, E. M., & Co., New York, N. Y. Hosiery. No. 130,947; May 4; v. 274; p. 191.
Tramontin, Amelia, Dravosburg, Pa. Healing-salve composition for the treatment of varicose veins, &c. No. 131,640; May 18; v. 274; p. 609.
Traster, Roy C., Kansas City, Mo. Confection containing a laxative ingredient. No. 131,641; May 18; v. 274; p. 609.
Traub, Lewis & Co., New York, N. Y. Veilings and nettings in the piece. No. 130,948; May 4; v. 274; p. 191.
Trifari & Krussman, Inc., New York, N. Y. Metal shoe-buckles, combs, hairpins. No. 130,950; May 4; v. 274; p. 191.
Trout, Chas. L., Company, Inc., New York, N. Y. Finger-rings. Nos. 131,856–8; May 25; v. 274; p. 834.
Trumbull-Vanderpool Electric Mfg. Co., Bantam, Conn. Electric knife and safety switches and panel-boards. No. 131,859; May 25; v. 274; p. 834.
Tucker, John T., Chattanooga, Tenn. Salve used in the treatment of colds, coughs, sore throat, &c. No. 131,642; May 18; v. 274; p. 609.
Turner & Walls, New York, N. Y. Silk and cotton piece goods and combinations of same. No. 131,247; May 4; v. 274; p. 200.
Turner Manufacturing Company, Port Washington, Wis. Tractors. No. 131,643; May 18; v. 274; p. 609.
Turner & Walls, New York, N. Y. Broadcloth. No. 131,644; May 18; v. 274; p. 609.
Turner, William G., Brooklyn, N. Y. Tooth-filling. No. 130,951; May 4; v. 274; p. 191.
Turney, John J., Philadelphia, Pa. Cigarettes. No. 130,952; May 4; v. 274; p. 191.
U. S. Industrial Alcohol Co., New York, N. Y. Fusel-oil or amyl alcohol, denatured alcohol, cologne-spirits. No. 131,652; May 18; v. 274; p. 609.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 131,861; May 25; v. 274; p. 834.
Ultramares Corporation, New York, N. Y. Flour. No. 131,248; May 4; v. 274; p. 200.
Umbaugh, Lou W., Ohio City, Ohio. Liniment for treatment for certain named diseases and affections. No. 131,373; May 11; v. 274; p. 402.
Underwood Typewriter Company, New York, N. Y. Typewriting-machines. No. 131,645; May 18; v. 274; p. 609.
Ungerer & Company, Inc., New York, N. Y. Resins and volatile oils for imparting scent to toilet preparations. No. 131,646; May 18; v. 274; p. 609.
Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Wrapping-papers. No. 131,647; May 18; v. 274; p. 609.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 130,953; May 4; v. 274; p. 191.

Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 130,954; May 4; v. 274; p. 191.

Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 131,648; May 18; v. 274; p. 609.

Union Metal Manufacturing Company, Canton, Ohio. Metal foundry-flasks, bottom boards for same, core-plates. No. 131,649; May 18; v. 274; p. 609.

Union Steam Pump Company, Battle Creek, Mich. Machines for effecting emulsion and producing homogeneous and emulsified mixtures. No. 131,249; May 4; v. 274; p. 200.

Unique Novelty Co., Los Angeles, Calif., and Independence, Iowa. Planchette-boards. No. 130,955; May 4; v. 274; p. 191.

United Drug Company, Boston, Mass. Candy. No. 130,956; May 4; v. 274; p. 191.

United Engine & Manufacturing Co., Hanover, Pa. Engine-stands, portable cranes, &c. No. 130,957; May 4; v. 274; p. 192.

United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. Nos. 131,374–79; May 11; v. 274; p. 402.

United Eye Glass Shops Corporation, New York, N. Y. Ophthalmic lenses, eyeglasses, eyeglass-frames. No. 131,650; May 18; v. 274; p. 609.

United Laboratories, Inc., St. Louis, Mo. Remedies for headaches, insomnia, constipation, &c. No. 131,370; May 11; v. 274; p. 402.

United Nut Lock Company, Springfield, Mass. Nut-locks. No. 131,381; May 11; v. 274; p. 402.

United States Color and Chemical Company, Boston, Mass. Anilin dyes, dye-colors, and color-bases. No. 131,651; May 18; v. 274; p. 609.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of rubber and canvas. No. 130,958; May 4; v. 274; p. 192.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of leather. No. 131,250; May 4; v. 274; p. 200.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Household gloves, bathing-caps, &c. No. 131,251; May 4; v. 274; p. 200.

United Trimming Co., New York, N. Y. Snap-fasteners. No. 130,959; May 4; v. 274; p. 192.

Universal Battery Company, Chicago, Ill. Isolated electric power-generating and lighting plants. No. 130,960; May 4; v. 274; p. 192.

Universal Cleanser Co., Oklahoma, Okla. Cleanser in powdered form. No. 131,860; May 25; v. 274; p. 834.

Universal Merchandise Co., New York, N. Y. Hosiery. No. 130,962; May 4; v. 274; p. 192.

Universal Merchandise Company, New York, N. Y. Underwear. No. 130,961; May 4; v. 274; p. 192.

Urego Chemical Laboratories, Omaha, Nebr. Skin preparations for certain purposes. No. 131,653; May 18; v. 274; p. 609.

Usit Manufacturing Co. of America Inc., Buffalo, N. Y. Preparation for treating eyes. No. 131,654; May 18; v. 274; p. 609.

Usit Mfg. Co. of America, Inc., New York, N. Y. Cosmetics and facial beautifiers. No. 131,382; May 11; v. 274; p. 402.

Usona Dental Company, Inc., Ogdensburg, N. Y. Burs and broaches used with dental handpieces for preparing cavities. No. 130,963; May 4; v. 274; p. 192.

Vacuum Oil Company, New York, N. Y. Emulsifying oil for leather. No. 131,252; May 4; v. 274; p. 201.

Vacuum Oil Company, New York, N. Y. Oils, greases, waxes, &c. No. 131,862; May 25; v. 274; p. 834.

Vacuum Oil Company, New York, N. Y. Oils, greases, waxes, gasolene. No. 131,863; May 25; v. 274; p. 834.

Vacuum Oil Company, New York, N. Y. Oils, greases, and waxes. Nos. 131,864–7; May 25; v. 274; p. 834.

Valentin, Ord & Co., Limited, Hayes, England. Artificial mineral water. No. 131,655; May 18; v. 274; p. 609.

Van Camp Packing Company, The, Indianapolis, Ind. Evaporated milk. No. 130,964; May 4; v. 274; p. 192.

Van Landingham, Charles E., Los Angeles, Calif. Canned fruits. No. 131,254; May 4; v. 274; p. 201.

Van Landingham, Charles E., Los Angeles, Calif. Canned fish. No. 131,868; May 25; v. 274; p. 835.

Van Noorden, E., & Co., Boston, Mass. Cowl-ventilators. No. 131,255; May 4; v. 274; p. 201.

Van Sand, Albert, New York, N. Y. Accountants' books for keeping accounts. No. 131,256; May 4; v. 274; p. 201.

Van Vleet Mansfield Drug Co., Memphis, Tenn. Remedy for diseases of the heart and nerves. No. 131,258; May 4; v. 274; p. 201.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Whiting used as a filler in rubber goods. No. 131,253; May 4; v. 274; p. 201.

Vandervoer, Jean J., Brattleboro, Va. Book-marks. No. 131,656; May 18; v. 274; p. 609.

Vasold Brothers, Midland, Mich. Butter. No. 131,657; May 18; v. 274; p. 609.

Vehicle Top & Supply Company, St. Louis, Mo. Commercial motor-vehicle bodies. No. 131,259; May 4; v. 274; p. 201.

Velvoto Company, Grand Rapids, Mich. Cold-cream. No. 131,658; May 18; v. 274; p. 609.

Vermilion Malleable Iron Company, Chicago, Ill. Malleable-iron castings. No. 131,659; May 18; v. 274; p. 609.

Ver-Vac Company, Baltimore, Md. Beverage, syrups, flavoring extract, liquid colors, &c. No. 131,870; May 25; v. 274; p. 835.

Vericel, Antoine, New York, N. Y. Perfume glass vial. No. 130,965; May 4; v. 274; p. 192.

Vernon, Ezekiel J., Vancouver, Canada. Medical compound for the treatment of typhoid fever, sciatica, &c. No. 131,660; May 18; v. 274; p. 609.

Victory Sparkler Company, Elkton, Md. Sparklers. No. 130,966; May 4; v. 274; p. 192.

Viduseck, Andrew, Bellevue, Pa. Hair-salve. No. 131,661; May 18; v. 274; p. 609.

Virginia Overall & Shirt Corporation, The, Harrisonburg, Va., Dress and work coats, pants, drawers, &c. No. 130,967; May 4; v. 274; p. 192.

Visible Spark Plug Co., Pittsburgh, Pa. Spark-plugs. No. 130,968; May 4; v. 274; p. 192.

Vitagraph Company of America, The, Brooklyn, N. Y. Moving-picture films. No. 131,383; May 11; v. 274; p. 402.

Vivaudou, Victor, New York, N. Y. Candies. No. 130,969; May 4; v. 274; p. 192.

Vivaudou, Victor, New York, N. Y. Toilet preparations. No. 131,384; May 11; v. 274; p. 402.

Vivaudou, Victor, New York, N. Y. Deodorants. No. 131,662; May 18; v. 274; p. 610.

Voice Talking Machine Co., New York, N. Y. Phonographs. No. 131,871; May 25; v. 274; p. 835.

Volk, Philip H., Baltimore, Md. Footwear, &c. No. 131,872; May 25; v. 274; p. 835.

Voorhorst, J. Clarence, New York, N. Y. Egg cartons or cases. No. 130,970; May 4; v. 274; p. 192.

Vreeland Motor Co. Inc., Newark, N. J. Automobiles. No. 131,260; May 4; v. 274; p. 201.

Vulcan Plow Co., The, Evansville, Ind. Tools and machinery. No. 131,663; May 18; v. 274; p. 610.

Vulcan Plow Co., The, Evansville, Ind. Tools and machinery. No. 131,873; May 25; v. 274; p. 835.

Wa-Ba-Va-Nes-Ta Medicine & Drug Co., Bay City, Mich. Medicine used in the treatment of certain named diseases. No. 131,664; May 18; v. 274; p. 610.

Wadsworth, Howland & Co., Incorporated, Boston, Mass. Liquid paint. No. 131,874; May 25; v. 274; p. 835.

Walcott Manufacturing Company, The, Hartford, Conn. Electric dish-washing machines and parts thereof. No. 131,887; May 25; v. 274; p. 835.

Waldes & Co., Prague, Bohemia. Placket-fasteners, glove-buttons, &c. Nos. 130,971–4; May 4; v. 274; p. 192.

Waldes & Co., Prague, Bohemia. Notions. Nos. 130,975–6; May 4; v. 274; p. 192.

Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 130,977; May 4; v. 274; p. 192.

Waldes & Co., Prague, Bohemia. Notions. No. 130,978; May 4; v. 274; p. 192.

Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 130,979; May 4; v. 274; p. 192.

Waldes & Co., Prague, Bohemia. Notions. No. 130,980; May 4; v. 274; p. 192.

Waldes & Co., Prague, Bohemia. Placket, glove, and snap fasteners, buttons, clasps, &c. No. 131,261; May 4; v. 274; p. 201.

Waldes & Co., Prague, Bohemia. Notions. Nos. 131,262–3; May 4; v. 274; p. 201.

Walker-Matteson Company, Joliet, Ill. Grape-juice and ginger-ale. No. 131,876; May 25; v. 274; p. 835.

Walla Walla Gardener's Association, Walla Walla, Wash. Fresh onions. No. 130,981; May 4; v. 274; p. 192.

Wallace Manufacturing Co. Inc., New York, N. Y. Spark-plug tools. No. 131,385; May 11; v. 274; p. 402.

Wallis Tractor Company, Racine, Wis. Tractors. No. 130,982; May 4; v. 274; p. 192.

Walnut Export Sales Co., Inc., Dover, Del., and New York, N. Y. Lumber. No. 131,928; May 25; v. 274; p. 836.

Walter-William Therapeutic Laboratories, Inc., New York, N. Y. Preparations for the relief of constipation and other intestinal disorders of women. No. 131,673; May 18; v. 274; p. 610.

Walter-William Therapeutic Laboratories, Inc., New York, N. Y. Preparation for the treatment of dysmenorrhea, &c. No. 131,674; May 18; v. 274; p. 610.

Ward Baking Company, New York, N. Y. Bread. No. 131,264; May 4; v. 274; p. 201.

Ward, C. E., Company, The, New London, Conn. Overall garments. No. 130,983; May 4; v. 274; p. 192.

Ward Motor Vehicle Company, Mount Vernon, N. Y. Automobiles. No. 130,984; May 4; v. 274; p. 192.

Warner Bros. Co., The, Bridgeport, Conn. Waterproof diaper-covers. No. 130,985; May 4; v. 274; p. 192.

Warrensburg Canning Company, Warrensburg, Ill. Canned sugar-corn. No. 130,986; May 4; v. 274; p. 192.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 131,665; May 18; v. 274; p. 610.

Waterbury Jewel Company, Waterbury, Conn. Pipe-covers. No. 130,987; May 4; v. 274; p. 192.

Watters Candy Company, Everett, Wash. Chocolate candy. No. 131,929; May 25; v. 274; p. 836.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 131,666; May 18; v. 274; p. 610.

Way, A. F., Company, Incorporated, Hartford, Conn. Machines, bucks, lathes, bars, &c. No. 131,877; May 25; v. 274; p. 835.

Weber-Schlitz Candy Co., Milwaukee, Wis. Hard candies. No. 131,667; May 18; v. 274; p. 610.

Weber, Wagner & Benson, New York, N. Y. Sterling-silver hollow ware, bowls, dishes, compotes, &c. No. 131,878; May 25; v. 274; p. 835.

Webster Electric Company, Racine, Wis. Ignition-magnetos. No. 131,265; May 4; v. 274; p. 201.

Webster, Lawrence, Co., The, Malone, N. Y. Mackinaws, woolen shirts, storm-vests, trousers, and outer suits. No. 131,879; May 25; v. 274; p. 835.

Weed, Howard W., Stamford, Conn. Awning in the nature of wind-shield protector. No. 131,266; May 4; v. 274; p. 201.

Wellman-Peck & Co., San Francisco, Calif. Foods and ingredients of foods. No. 131,386; May 11; v. 274; p. 402.

Wertheimer Bros., New York, N. Y. Silk and velvet ribbons. No. 131,880; May 25; v. 274; p. 835.

West Coast Soap Co., Oakland, Calif. Laundry soap. No. 131,875; May 25; v. 274; p. 835.

West, Jarold R., Denver, Colo. Cereal food. No. 131,267; May 4; v. 274; p. 201.

Western Bottle Mfg. Co., Chicago, Ill. Writing-paper. No. 130,988; May 4; v. 274; p. 192.

Western Canning Company, Oakland, Calif. Canned fruits. No. 131,387; May 11; v. 274; p. 402.

Western Canning Company, Oakland, Calif. Canned fruits. No. 131,881; May 25; v. 274; p. 835.

Western Electric Company Incorporated, New York, N. Y. Electrical massaging-machines. No. 130,989; May 4; v. 274; p. 192.

Western Grocer Company, Oskaloosa and Marshalltown, Iowa. Foods and ingredients of foods. No. 131,268; May 4; v. 274; p. 201.

Wheeler, Hayden W., & Co., New York, N. Y. Imitation pearls and pearl necklaces. No. 131,882; May 25; v. 274; p. 835.

Wheeler Optical Company, Portland, Oreg. Eye Remedy. No. 131,388; May 11; v. 274; p. 402.

Whistle Bottling Co., Norfolk, Va. Non-intoxicating maltless non-cereal beverages. No. 131,668; May 18; v. 274; p. 610.

White, Louis P., Philadelphia, Pa. Clocks and watches. No. 130,991; May 4; v. 274; p. 193.

White Stokes Co. Inc., Chicago, Ill. Icings and toppings for foods. No. 130,992; May 4; v. 274; p. 193.

Whitehouse Brothers, Newark, N. J. Buckles. No. 130,993; May 4; v. 274; p. 193.

Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 130,994; May 4; v. 274; p. 193.

Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 131,269; May 4; v. 274; p. 201.

Whitmore, Vaughn D., Ceres, Calif. Fresh fruits—namely, grapes. No. 131,257; May 4; v. 274; p. 201.

Whitney, Charles B., Decatur, Ill. Polishes for automobiles, furniture, woodwork, and the like. No. 131,883; May 25; v. 274; p. 835.

Whittemore Brothers, Corporation, Cambridge, Mass. Leather-dressing. Nos. 131,669–71; May 18; v. 274; p. 610.

Williams Chocolate Company, Scranton, Pa. Chocolate candy. No. 130,996; May 4; v. 274; p. 193.

Williams Chocolate Co., Scranton, Pa. Candy. No. 131,672; May 18; v. 274; p. 610.

Williams, J. B., Company, The, Glastonbury, Conn. Soap. No. 131,270; May 4; v. 274; p. 201.

Williamson, James O., Montgomery, Ala. Laxative tablet and wafer. No. 131,884; May 25; v. 274; p. 835.

Wilton Manufacturing Co., Inc., New York, N. Y. Cotton piece goods. No. 130,997; May 4; v. 274; p. 193.

Winchenbaugh, Lester P., Co., Boston, Mass. Window-display paper. No. 131,271; May 4; v. 274; p. 201.

Windsor Undersilks, Inc., New York, N. Y. Women's silk underwear. No. 131,885; May 25; v. 274; p. 835.

Wingate, Rosier B., Dallas, Tex. Non-alcoholic beverage and syrup for making same. No. 131,675; May 18; v. 274; p. 610.

Winget, Limited, Westminster, London, England. Machinery and parts of machinery for mixing and for molding concrete and such like material. No. 130,998; May 4; v. 274; p. 193.

Winter, M. A., Company, Washington, D. C. Medicinal tablets for laxative, &c. No. 131,886; May 25; v. 274; p. 835.

Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass. Condensers. No. 131,676; May 18; v. 274; p. 610.

Wittl, Frederick J., Milwaukee, Wis. Razor-strops. No. 130,999; May 4; v. 274; p. 193.

Wolf Company, New York, N. Y. Ladies' nightgowns, petticoats, drawers, &c. No. 131,000; May 4; v. 274; p. 193.

Wolf, Leo M., Crawfordsville, Ind. Medicine for use in the treatment of certain named diseases. No. 131,677; May 18; v. 274; p. 610.

Wolff Brothers, Paterson, N. J. Breakfast cereal foods and buckwheat-flour. No. 131,272; May 4; v. 274; p. 201.

Wollensak Optical Co., Rochester, N. Y. Photographic lenses. No. 131,389; May 11; v. 274; p. 402.

Wood Shovel & Tool Co., Piqua, Ohio. Shovels, spades, scoops, &c. No. 131,390; May 11; v. 274; p. 402.

Wood Turret Machine Co., Brazil, Ind. Turret-lathes and screw-machines. No. 131,391; May 11; v. 274; p. 402.

Wood, W. B., Mfg. Co., St. Louis, Mo. Powder for the manufacture of ice-cream, fruit sherbet, &c. No. 131,001; May 4; v. 274; No. 193.

Woodruff, Will R., Stanton, Nebr. Gas-pumps employing poisonous gases for killing gophers, &c. No. 131,678; May 18; v. 274; p. 610.

Woods, Leonard, St. Louis, Mo. Article of men's furnishings in the form of aluminum-plate supporters for trousers. No. 131,273; May 4; v. 274; p. 201.

Woolson Spice Co., Toledo, Ohio. Coffee. No. 131,002; May 4; v. 274; p. 193.

World Bottling Co. Ltd., New Orleans, La. Non-alcoholic non-cereal maltless beverages and syrups. No. 131,679; May 18; v. 274; p. 610.

Wormser, Marcel, Summit, N. J. Pearls and imitation pearls. No. 131,888; May 25; v. 274; p. 835.

Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 131,003; May 4; v. 274; p. 193.

Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing-gum. No. 131,004; May 4; v. 274; p. 193.

Wuellner, J. J., & Son, Alton, Ill. Construction hoisting-towers. No. 131,005; May 4; v. 274; p. 193.

Wunderle, Philip, Philadelphia, Pa. Candy. No. 131,006; May 4; v. 274; p. 193.

Wyeth, John & Brothers, Incorporated, Philadelphia, Pa. Medicinal antiseptic spray. No. 131,889; May 25; v. 274; p. 835.

York Haven Paper Company, The, Philadelphia, Pa. Wrapping-paper. No. 131,680; May 18; v. 274; p. 610.

York Pretzel Bakery, York, Pa. Pretzels, cakes, crackers, and biscuits. No. 131,007; May 4; v. 274; p. 193.

Young, Frederick H., Toledo, Ohio. Toilet cream, face, talcum, and tooth powders. Nos. 131,681–2; May 18; v. 274; p. 610.

Yucalpa Apple Growers' Association, Yucalpa, Calif. Fresh apples. No. 131,274; May 4; v. 274; p. 201.

Zatrko, Paul, Divernon, Ill. Salve for sores, burns, &c. No. 131,683; May 18; v. 274; p. 610.

Zevely, Percival B., Pittsburgh, Pa. Liquid vegetable laxative. No. 131,684; May 18; v. 274; p. 610.

Ziff, Joseph, Detroit, Mich. Suspenders and men's garters. No. 131,008; May 4; v. 274; p. 193.

Zimmerer, John W., Fort Thomas, Ky. Live poultry and setting-eggs. No. 131,276; May 4; v. 274; p. 201.

Zinn, Robert, Epsom, N. H. Silk and cotton woven edges. No. 131,275; May 4; v. 274; p. 201.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bay City Milling Co., Bay City, Mich. "American Leader," (For Flour.) No. 21,853; May 11; v. 274; p. 403.

Commercial Tea & Coffee Co., The, Boston, Mass. "Anatolikos Astir." (For Coffee.) No. 21,854; May 11; v. 274; p. 403.

Frisch, Emile, Chicago, Ill. "Tip-Top." (For Bread.) No. 21,870; May 25; v. 275; p. 837.

Giller, W. B., Jacksonville, Fla. "Export Beverage—Extra Fine." (For a Certain Beverage.) No. 21,868; May 11; v. 274; p. 403.

Glidden Company, The, Cleveland, Ohio. "Everywhere On Everything." (For Paints, Varnishes, Colors, and Insecticides.) No. 21,855; May 11; v. 274; p. 403.

Holtrans Company, Inc., New York, N. Y. "Holco Brand Sardines." (For Sardines.) No. 21,856; May 11; v. 274; p. 403.

M. & S. Chemical Co., The, Omaha, Nebr. "Peerless Laundry Tablets." (For Laundry-Tablets.) No. 21,858; May 11; v. 274; p. 403.

Magnus Drug Chemical Company, Chicago, Ill. "Magnus Stomach Bitters." (For a Proprietary Medicine.) No. 21,857; May 11; v. 274; p. 403.

Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason's Khufu." (For Chocolate Cocoanut Cream Bars.) Nos. 21,859–60; May 11; v. 274; p. 403.

Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason's Nut Malobar." (For Chocolate Marshmallow Candy.) No. 21,861; May 11; v. 274; p. 403.

Mason, Au & Magenheimer Confectionery Mfg. Co., Brooklyn, N. Y. "Mason Mints." (For Mint Candy.) Nos. 21,862–3; May 11; v. 274; p. 403.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nuts." (For Chocolate Candy—namely, Chocolate-Covered Nuts.) No. 21,864; May 11; v. 274; p. 403.

Pennsylvania Soap Company, The, Lancaster, Pa. "Soap Baby." (For Soap.) No. 21,869; May 18; v. 274; p. 612.

Scranton Distributing and Mfg. Co., Scranton, Pa. "Bro-Wal." (For Bitter-Wine Tonic.) No. 21,871; May 25; v. 275; p. 837.

Shepard Fruit Products Company, Wenatchee, Wash. "Mrs. Shepard's Fruit Flakes." (For Flaked and Cooked Fruits—Namely, Apples.) No. 21,865; May 11; v. 274; p. 403.

Shipp, J. L., Washington, Ga. "Orange-Cola." (For Orange-Cola Beverage.) No. 21,872; May 25; v. 275; p. 837.

Welch Grape Juice Company, The, Westfield, N. Y. "Welch-Apl." (For a Non-Alcoholic Beverage Consisting of Apple Syrup and Carbonated Water.) No. 21,866; May 11; v. 274; p. 403.

York Chocolate Company, York, Pa. "Swiss-Alpine Style Sweet Milk Chocolate." (For Sweet Chocolate.) No. 21,867; May 11; v. 274; p. 403.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Grant, J. C., Chemical Co., East St. Louis, Ill. "Starting Right! Bon Bon never disappoints." (For Baking-Powder.) No. 5,256; May 11; v. 274; p. 403.

United Fuel & Supply Company, Detroit, Mich. "Comfort Coke." (For Fuel-Coke.) No. 5,257; May 11; v. 274; p. 403.

Williams Patent Crusher & Pulverizer Co., St Louis, Mo. "Taking Care of Ball Bearings of Our Little Giant Line of Grinding Mills." (For Ball-Bearings of Our Little Giant Line of Grinding-Mills Used as Feed-Grinders.) No. 5,258; May 11; v. 274; p. 403.

DISCLAIMERS.

Jouffret, Henri Victor Jules, and J. M. Renée, Paris, France; disclaimer filed by owner, George M. Holley. Carbureter. No 1,002,700; disclaimer filed Apr. 21, 1920; v. 274; p. 208.

Watson, Henry W. and W. W., Jamestown, N. Y.; disclaimer filed by patentees. Metal screen. No. 836,475; disclaimer filed Apr. 30, 1920; v. 274; p. 411.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF MAY, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting-machine. B. P. Hayes and F. D. Laughlin. No. 1,340,827; May 18; v. 274; p. 542.

Accounting machine, Ticket-issuing. F. Skerl and F. J. Graef. No. 1,338,876; May 4; v. 274; p. 42.

Acetic anhydrid. H. Dreyfus. No. 1,338,979; May 4; v. 274; p. 60.

Acid concentration, Sulfuric-. J. Patten. No. 1,340,290; May 18; v. 274; p. 440.

Acid, Producing and purifying sulfuric. P. Haeseler. No. 1,341,462; May 25; v. 274; p. 736.

Acid utilizing sludge acid, Apparatus for producing hydrochloric. H. M. Lasher. No. 1,339,519; May 11; v. 274; p. 237.

Acids, Object having great strength and resistance against the action of. B. Strauss. No. 1,339,378; May 4; v. 274; p. 134.

Adding and typewriting machine. B. C. Stickney. No. 1,339,796; May 11; v. 274; p. 290.

Adding-machine. G. C. Chase. No. 1,340,374; May 18; v. 274; p. 457.

Adenotome. S. Diamant. No. 1,339,691; May 11; v. 274; p. 271.

Adenotome. S. Diamant. No. 1,339,692; May 11; v. 274; p. 271.

Adhesive, Machine for applying. F. S. Glines. No. 1,341,311; May 25; v. 274; p. 706.

Adjustable screen. A. and M. Manyak. No. 1,341,188; May 25; v. 274; p. 683.

Advertising, Securing depth and relief for commercial. H. R. Hyman and T. B. Messick. No. 1,339,892; May 11; v. 274; p. 308.

Aerial-cable guide. T. C. Smith. No. 1,340,989; May 25; v. 274; p. 644.

Aerial mark from a battery, Apparatus for determining the elevation and distance of an. N. Overaas. No. 1,339,130; May 4; v. 274; p. 90.

Aeronautical machine, Power control for. A. J. Greenly. No. 1,339,332; May 4; v. 274; p. 126.

Aeroplane. O. A. Kalbfus. No. 1,340,960; May 25; v. 274; p. 638.

Aeroplane. J. Kleidman. No. 1,340,450; May 18; v. 274; p. 471.

Aeroplane. C. R. Wittemann. No. 1,341,029; May 25; v. 274; p. 652.

Aeroplane height-indicator. L. B. Sperry. No. 1,339,006 May 4; v. 274; p. 66.

Aeroplane landing-stage. J. A. Caulkins. No. 1,340,325; May 18; v. 274; p. 447.

Aeroplane, Metal fitting for connecting together certain structural members of an. P. J. R. Postel-Vinay. No. 1,340,626; May 18; v. 274; p. 504.

Aeroplane or hydroaeroplane construction. S. H. Tolman. No. 1,341,399; May 25; v. 274; p. 724.

Aeroplane-propeller. R. M. Shaffer. No. 1,338,874; May 4; vol. 274; p. 41.

Aeroplane rudder-bar. W. H. McMullen. No. 1,341,567; May 25; v. 274; p. 756.

Aeroplane-stabilizer. A. Chiarelli. No. 1,340,214; May 18; v. 274; p. 426.

Aeroplane-undercarriage. F. L. Guillemet. No. 1,340,483; May 18; v. 274; p. 477.

Aeroplanes, airships, and other aircraft, Safety device for use with. A. A. Lewis. No. 1,339,828; May 11; v. 274; p. 296.

Aeroplanes, Propeller mud-guard for. N. A. Strand. No. 1,341,202; May 25; v. 274; p. 686.

Agricultural implement. C. C. Hamilton. No. 1,341,231; May 25; v. 274; p. 691.

Air blower and distributer. W. A. Hoffman. No. 1,339,510; May 11; v. 274; p. 236.

Air-brake, Automobile. C. T. Alexander. No. 1,341,531; May 25; v. 274; p. 749.

Air-brake system. G. Macloskie. No. 1,339,962; May 11; v. 274; p. 322.

Air cleaning, moistening, and cooling apparatus. W. F. Cox. No. 1,339,105; May 4; v. 274; p. 85.

Air control. H. M. Cheek. No. 1,341,260; May 25; v. 274; p. 696.

Air-drying apparatus. J. H. Woodard. No. 1,341,405; May 25; v. 274; p. 725.

Air-lift apparatus. E. M. Rogers. No. 1,339,137; May 4; v. 274; p. 92.

Air, Means for introducing auxiliary. A. A. Jackson. No. 1,340,228; May 18; v. 274; p. 429.

Air-propeller. V. L. Békeš. No. 1,340,210; May 18; v. 274; p. 426.

Air regulator and deflector, Combined. J. Closs. No. 1,341,494; May 25; v. 274; p. 742.

Air-valve device. A. J. Beaton. No. 1,341,101; May 25; v. 274; p. 666.

Aircraft. E. B. Carns, No. 1,340, 154; May 18; v. 274; p. 416.

Aircraft, Apparatus for releasing bodies from. A. H. Gledhill. No. 1,338,724; May 4; v. 274; p. 14.

Aircraft, Navigating. J. A. Steinmetz. No. 1,340,573; May 18; v. 274; p. 494.

Airplane. J. E. Eaton. No. 1,340,707; May 18; v. 274; p. 520.

Airplane strut member. M. W. Mix. No. 1,338,836; May 4; v. 274; p. 34.

Airship-car. J. McKechnie. No. 1,339,570; May 11; v. 274; p. 247.

Airship, Dirigible. J. Janda. No. 1,340,053; May 11; v. 274; p. 338.

Alarm: *See*—
Fire-alarm.

Alarm. J. A. Chappuis. No. 1,341,298; May 25; v. 274; p. 704.

Alarm-controlling mechanism. L. M. Lewis. No. 1,339,567; May 11; v. 274; p. 247.

Alarms, Circuit-closer for vehicle-. F. C. Potter. No. 1,340,344; May 18; v. 274; p. 451.

Alloy. T. Koch. No. 1,340,451; May 18; v. 274; p. 471.

Alloy. G. L. Van Allen. No. 1,339,009; May 4; v. 274; p. 66.

Alloy, Metal. G. C. Deeter. No. 1,340,437; May 18; v. 274; p. 469.

Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,338,826; May 4; v. 274; p. 33.

Aluminous composition and making same. O. Hutchins. No. 1,339,344; May 4; v. 274; p. 128.

Aluminum, Tinning. A. L. Page. No. 1,339,710; May 11; v. 274; p. 274.

Aluminum, Tinning or soldering. J. Dean. No. 1,340,264; May 18; v. 274; p. 435.

Aminoanthraquinone, Making 2-. M. Fischer. No. 1,340,603; May 18; v. 274; p. 500.

Amusement apparatus. E. S. Doughty. No. 1,339,502; May 11; v. 274; p. 234.

Amusement apparatus. H. N. Ridgway. No. 1,341,219; May 25; v. 274; p. 689.

Amusement apparatus. H. N. Ridgway. No. 1,341,220; May 25; v. 274; p. 689.

Amusement apparatus, Scenic. J. Smith. No. 1,340,570; May 18; v. 274; p. 494.

Amusement device. J. J. Stock. No. 1,339,299; May 4; v. 274; p. 119.

Amusement device. J. Van Camp. No. 1,339,871; May 11; v. 274; p. 304.

Analytical apparatus. H. B. Pulsifer. No. 1,340,346; May 18; v. 274; p. 451.

Anesthetic-administering apparatus. W. A. Johnston, A. W. Brown, and F. L. Wallace. No. 1,340,448; May 18; v. 274; p. 471.

Anesthetic apparatus. A. C. Clark. No. 1,338,905; May 4; v. 274; p. 47.

Anchor shank and shackle. W. M. Bateman. No. 1,340,002; May 11; v. 274; p. 329.

Animal-trap. W. B. Gilmore. No. 1,340,442; May 18; v. 274; p. 470.

Annealing and heat-treating furnace. J. Weintz. No. 1,339,081; May 4; v. 274; p. 81.

Annealing-box. H. B. Rose and W. B. Enck. No. 1,340,675; May 18; v. 274; p. 514.

Anti-mouth-breathing device. J. W. Rothenberger. No. 1,339,865; May 11; v. 274; p. 303.

Antirattler and window-locking device, Combined. G. L. Rouse. No. 1,338,792; May 4; v. 274; p. 27.

Arbor. F. J. Baldwin. No. 1,339,877; May 11; v. 274; p. 306.

Arch, Constructing one-piece fire-brick. W. A. L. Schaefer. No. 1,341,077; May 25; v. 274; p. 661.

Arch, Constructing one-piece fire-brick. W. A. L. Schaefer. No. 1,341,078; May 25; v. 274; p. 661.

Arithmetic, Apparatus for teaching. R. A. Jackson. No. 1,340,052; May 11; v. 274; p. 338.
Article-register. M. B. Diskin. No. 1,339,744; May 11; v. 274; p. 280.
Articles of manufacture, Process and machine for making certain. F. P. Robert. No. 1,341,626; May 25; v. 274; p. 767.
Asbestos, Treating. E. H. Garcin. No. 1,340,535; May 18; v. 274; p. 487.
Ash-conveying system. D. A. Livensparger. No. 1,339,209; May 4; v. 274; p. 104.
Ash-hoist. C. Siedlickis. No. 1,339,072; May 4; v. 274; p. 79.
Ash-sage color-preserving extract. J. Petan. No. 1,340,246; May 18; v. 274; p. 432.
Asphalt, Fibered. G. L. Ollensis and J. S. Miller, Jr. No. 1,340,181; May 18; v. 274; p. 420.
Atomizer. J. H. Beynon. No. 1,340,433; May 18; v. 274; p. 468.
Auto-lock. F. J. Harvey. No. 1,341,055; May 25; v. 274; p. 657.
Automatic dump-lock. T. E. De Vol. No. 1,341,499; May 25; v. 274; p. 743.
Automatograph. C. W. Davison. No. 1,340,529; May 18; v. 274; p. 486.
Automobile attachment. L. F. Fuller. No. 1,338,915; May 4; v. 274; p. 49.
Automobile attachment. E. G. Hantzsch. No. 1,339,822; May 11; v. 274; 295.
Automobile-body construction. B. M. Diver. No. 1,339,325; May 4; v. 274; p. 124.
Automobile-brake. B. W. Olson. No. 1,339,524; May 11; v. 274; p. 238.
Automobile-brake mechanism. H. Josephson. No. 1,339,895; May 11; v. 274; p. 309.
Automobile-bumper. L. W. Dilweg. No. 1,340,867; May 18; v. 274; p. 549.
Automobile-bumper. C. C. Helman. No. 1,339,756; May 11; v. 274; p. 283.
Automobile-heater. A. J. Adamson. No. 1,340,314; May 18; v. 274; p. 445.
Automobile-heater. E. H. Heller. No. 1,341,126; May 25; v. 274; p. 670.
Automobile-jack. W. H. Butters. No. 1,340,749; May 18; v. 274; p. 527.
Automobile-jack. A. S. La Chapelle. No. 1,339,459; May 11; v. 274; p. 226.
Automobile-jack, rolling. G. H. Law. No. 1,339,827; May 11; v. 274; p. 296.
Automobile-lifter. W. J. Seas. No. 1,341,620; May 25; v. 274; p. 766.
Automobile-lifter. W. J. Seas. No. 1,341,621; May 25; v. 274; p. 766.
Automobile-lock. J. L. Chackan. No. 1,340,326; May 18; v. 274; p. 447.
Automobile-lock. A. Jackson. No. 1,340,051; May 11; v. 274; p. 338.
Automobile-lock. R. S. Jaques. No. 1,340,393; May 18; v. 274; p. 460.
Automobile-locking device. L. Faust and E. B. Anderson. No. 1,338,913; May 4; v. 274; p. 49.
Automobile safety appliance. J. Kainen. No. 1,341,325; May 25; v. 274; p. 709.
Automobile-signal. W. E. F. Gibson and I. M. James. No. 1,340,537; May 18; v. 274; p. 487.
Automobile-signal. E. A. Sendker. No. 1,338,703; May 4; v. 274; p. 10.
Automobile spot-light. W. B. Haines. No. 1,339,954; May 11; v. 274; p. 320.
Automobile-spring. W. F. Cauley. No. 1,338,673; May 4; v. 274; p. 5.
Automobile-support. J. N. Duncan. No. 1,340,438; May 18; v. 274; p. 469.
Automobile-tool. J. Z. Roberge. No. 1,339,289; May 4; v. 274; p. 117.
Automobile-tool. J. W. Wilkins. No. 1,339,612; May 11; v. 274; p. 255.
Automobile-top bow. J. Vetter. No. 1,340,307; May 18; v. 274; p. 443.
Automobile-tops, Curtain-holder for. W. P. Sharp. No. 1,340,799; May 18; v. 274; p. 537.
Automobile, Water-. C. A. Le Jeune. No. 1,341,375; May 25; v. 274; p. 719.
Automobile-wheel. H. S. Cox. No. 1,339,168; May 4; v. 274; p. 96.
Automobiles, Audible theft-alarm signal for. E. B. Williams. No. 1,339,873; May 11; v. 274; p. 305.
Automobiles, Combined rain and glare guard for windshields of. L. W. Lockwood. No. 1,339,770; May 11; v. 274; p. 285.
Automobiles, Demountable lamp-bracket for. W. W. Sabin. No. 1,340,686; May 18; v. 274; p. 516.
Automobiles, Jumping-wagon attachment for. T. E. Newton. No. 1,341,381; May 25; v. 274; p. 720.
Automobiles from mud, sand, or ditches, Device for extracting. W. A. Nash. No. 1,340,238; May 18; v. 274; p. 431.
Automobiles of the lighter class, Wheels for. E. K. Baker. No. 1,339,913; May 11; v. 274; p. 312.
Automobiles, Radiator and hood cover for. W. E. Norcross. No. 1,338,693; May 4; v. 274; p. 8.
Automobiles, Signal device for. R. Wetherill. No. 1,339,938; May 11; v. 274; p. 317.
Automobiles, Steering-gear lock for. H. F. George. No. 1,339,329; May 4; v. 274; p. 125.
Autoscope. J. Kometter, Jr. No. 1,338,738; May 4; v. 274; p. 17.
Ax. C. J. Kopriva. No. 1,339,357; May 4; v. 274; p. 130.
Axle construction. L. F. Chrestenson. No. 1,340,932; May 25; v. 274; p. 633.
Axle construction, Automobile-. C. A. Dean. No. 1,341,265; May 25; v. 274; p. 697.
Axle, Reclaimed. A. C. Murphy. No. 1,341,432; May 25; v 274; p. 730.
Axle reconstruction. J. R. Fleming. No. 1,340,032; May 11; v. 274; p. 335.
Bacteria, Preparation of liquid cultures of nitrifying. F. M. Wood. No. 1,341,030; May 25; v. 274; p. 652.
Bag: *See*—
Coal-bag.
Hot-water or ice bag.
Shopping-bag.
Bag-frame and hinge connection therefor. B. vom Elgen. No. 1,339,799; May 11; v. 274; p. 291.
Bag-holder. J. L. and G. E. Herrman. No. 1,340,714; May 18; v. 274; p. 521.
Bag or suitcase. J. M. Katz. No. 1,339,653; May 11; v. 274; p. 263.
Baller-bottoms, Blank and manufacture of. J. W. Sloan. No. 1,339,722; May 11; v. 274; p. 277.
Bait, Artificial. H. L. Medley. No. 1,341,618; May 25; v. 274; p. 765.
Bait, Artificial. R. R. Odell. No. 1,338,953; May 4; v. 274; p. 56.
Baking-pan. L. Lewitzky. No. 1,340,659; May 18; v. 274; p. 511.
Ball: *See*—
Twine-ball.
Ball and making same. C. C. Wais. No. 1,339,992; May 11; v. 274; p. 327.
Ball-bearing spindle. F. H. Chapman. No. 1,338,904; May 4; v. 274; p. 47.
Ballast-shifting device, Automatic. H. A. Selah. No. 1,339,628; May 11; v. 274; p. 259.
Balloon, Kite-. R. H. Upson. No. 1,341,248; May 25; v. 274; p. 694.
Banjo. R. T. Carlucci. No. 1,339,318; May 4; v. 274; p. 123.
Banjo. C. D. Russo. No. 1,341,199; May 25; v. 274; p. 685.
Bar: *See*—
Aeroplane rudder-bar.
Sickle-bar.
Structural bar.
Type-bar.
Barber's chair for children. D. Oppenheim. No. 1,341,192; May 25; v. 274; p. 684.
Barge, Metal. J. L. Taylor. No 1,338,712; May 4; v. 274; p. 12.
Barrel-cleat. N. A. Ormes. No. 1,340,075; May 11; v. 274; p. 342.
Barrel, Collapsible. C. W. Bovee. No. 1,341,493; May 25; v. 274; p. 742.
Barrel or receptacle, Metal. H. Ellis. No. 1,341,304; May 25; v. 274; p. 705.
Barrels and other similar receptacles, Head for. L. H. Davey. No. 1,340,023; May 11; v. 274; p. 333.
Barrels, Manufacturing paper. R. S. Bolger. No. 1,340,110; May 11; v. 274; p. 350.
Bars, Making glazing-. J. T. Hutchinson, V. Shaw, and F. Barnes. No. 1,341,271; May 25; v. 274; p. 698.
Bath apparatus, Shower-. W. C. Booth. No. 1,339,593; May 11; v. 274; p. 252.
Bath, Combined portable shower and vapor. G. G. Stimpson. No. 1,341,485; May 25; v. 274; p. 741.
Battery: *See*—
Multivolt battery.
Storage battery.
Battery-box. T. L. Moorman. No. 1,338,690; May 4; v. 274; p. 8.
Battery cell, Storage-. J. C. Eichhorn. No. 1,339,442; May 11; v. 274; p. 223.
Battery-plate and terminal connection. A. F. Hawkins. No. 1,339,061; May 4; v. 274; p. 77.
Battery plates, Separator for storage-. J. O. Luthy. No. 1,339,853; May 11; v. 274; p. 301.
Bean-harvesting machine. R. Sera. No. 1,339,674; May 11; v. 274; p. 268.
Bearing. J. G. Utz. No. 1,339,991; May 11; v. 274; p. 327.
Bearing. G. H. Worrall. No. 1,339,084; May 4; v. 274; p. 81.
Bearing, Antifriction-. J. T. Rice. No. 1,338,868; May 4; v. 274; p. 40.
Bearing, Antifriction-. G. Wolff. No. 1,340,310; May 18; v. 274; p. 444.
Bearing, Ball-. J. E. Pruyn. No. 1,340,250; May 18; v. 274; p. 433.
Bearing, Carrier-. F. P. Sawders and J. G. Murray. No. 1,339,476; May 11; v. 274; p. 229.
Bearing, Connecting-rod. W. E. Day. No. 1,341,548; May 25; v. 274; p. 752.
Bearing, Disk-. J. E. Heintz. No. 1,339,455; May 11; v. 274; p. 225.
Bearing for crank-shafts, Adjustable thrust-. T. N. Martin. No. 1,340,396; May 18; v. 274; p. 461.
Bearing, Roller-. B. E. Dohner and A. J. Huff. No. 1,340,941; May 25; v. 274; p. 634.
Bearing, Roller-. A. M. Laycock. No. 1,338,939; May 4; v. 274; p. 53.
Bearing, Self-lubricating. O. F. Conklin. No. 1,341,415; May 25; v. 274; p. 727.

Bearing, Shaft-. W. W. Neighbour. No. 1,339,277; May 4; v. 274; p. 115.
Bearing-shell, Process and apparatus for lining a. F. C. Heath. No. 1,340,337; May 18; v. 274; p. 449.
Bearing, Side. W. A. Bock. No. 1,338,763; May 4; v. 274; p. 22.
Bearing, Steering-post. G. E. Smith. No. 1,339,987; May 11; v. 274; p. 326.
Bearings and thrust-bearings, Special design for ball-. A. Maire. No. 1,340,663; May 18; v. 274; p. 512.
Bearings, Manufacture of multiple. C. W. Barnaby. No. 1,341,265; May 25; v. 274; p. 686.
Bearings, Manufacture of so-called cup-rings for antifriction-. J. W. Schatz. No. 1,339,672; May 11; v. 274; p. 267.
Bed. J. Royer. No. 1,341,342; May 25; v. 274; p. 712.
Bed. C. M. Winn. No. 1,339,250; May 4; v. 274; p. 111.
Bed and coop, Child's folding combined. J. S. Winget. No. 1,340,694; May 18; v. 274; p. 517.
Bed-bottom structure. G. S. Greenleaf. No. 1,340,540; May 18; v. 274; p. 488.
Bed, Folding. C. R. Bruce. No. 1,340,212; May 18; v. 274; p. 426.
Bed, Folding. R. Haight. No. 1,339,650; May 11; v. 274; p. 263.
Bed, Folding. R. B. Page. No. 1,340,735; May 18; v. 274; p. 524.
Bed-spring. S. Weissman and R. Weisman. No. 1,340,510; May 18; v. 274; p. 482.
Bed, Window-. E. J. Henry. No. 1,340,609; May 18; v. 274; p. 501.
Bedpan. C. F. Zimmerman. No. 1,340,680; May 18; v. 274; p. 515.
Bedstead and wardrobe, Combination. B. Lipshitz. No. 1,338,741; May 4; v. 274; p. 17.
Beehive for raising queen bees. J. Fisk. No. 1,341,364; May 25; v. 274; p. 717.
Beet-puller. W. Schmidt. No. 1,340,796; May 18; v. 274; p. 536.
Bell-ringer. L. La Munyon. No. 1,340,059; May 11; v. 274; p. 339.
Belt. N. T. Fogg. No. 1,338,859; May 4; v. 274; p. 39.
Belt. C. M. Waltz. No. 1,339,309; May 4; v. 274; p. 121.
Belt, Buoyant. R. M. Watts. No. 1,341,529; May 25; v. 274; p. 749.
Belt, Conveyer. J. C. Frey. No. 1,339,646; May 11; v. 274; p. 262.
Belt-machine. J. Wolny. No. 1,339,874; May 11; v. 274; p. 305.
Belt retaining and tightening device, Fan-. C. Johnson. No. 1,339,893; May 11; v. 274; p. 308.
Belt-shifter. G. A. Reeve. No. 1,341,440; May 25; v. 274; p. 732.
Belt-splicer. C. C. Clayberg. No. 1,341,359; May 25; v. 274; p. 716.
Belt, Traction-. J. W. Porter and R. L. Arndt. No. 1,339,786; May 11; v. 274; p. 288.
Belt, Traction-. H. C. Steele. No. 1,339,298; May 4; v. 274; p. 119.
Bench, Piano-. C. F. Kade. No. 1,339,262; May 4; v. 274; p. 113.
Bending-machine. A. M. Meyers. No. 1,338,946; May 4; v. 274; p. 55.
Beverage containers, Sealing-valve for carbonated-. C. M. Earl. No. 1,339,555; May 11; v. 274; p. 244.
Beverages, Making non-intoxicating. W. Wilhelmy, Sr. No. 1,338,803; May 4; v. 274; p. 29.
Billiard-cue chalker. F. A. Lewis. No. 1,341,376; May 25; v. 274; p. 719.
Billiard-cue construction and attaching the cue-tip. O. C. Leger. No. 1,340,395; May 18; v. 274; p. 461.
Billet-turner. L. L. Welch. No. 1,340,640; May 18; v. 274; p. 507.
Bin: *See*—
Grain-storage bin.
Binder, Loose-leaf. C. E. Beck. No. 1,341,456; May 25; v. 274; p. 735.
Binder, Temporary. G. W. Windisch. No. 1,339,249; May 4; v. 274; p. 110.
Binders, Bundle-carrier attachment for. J. G. Stewart. No. 1,340,088; May 11; v. 274; p. 345.
Binders, Leaf-projecting device for loose-leaf. W. J. McCarthy. No. 1,341,062; May 25; v. 274; p. 659.
Binders, Twine-treating attachment for. J. Rowe. No. 1,340,294; May 18; v. 274; p. 441.
Bitstock. W. L. Kern. No. 1,341,180; May 25; v. 274; p. 681.
Bitstock feeding attachment. K. W. Karlsson. No. 1,339,958; May 11; v. 274; p. 321.
Bituminous material, Composition of matter containing. J. M. Weiss. No. 1,340,855; May 18; v. 274; p. 547.
Blind-slot attachment. N. C. Rasmussen. No. 1,340,252; May 18; v. 274; p. 433.
Block: *See*—
Bunk-block.
Cutting-block.
Printing-block.
Pulley-block.
Sewer-block.
Block-turning apparatus. T. Rotheram. No. 1,339,138; May 4; v. 274; p. 92.
Blotting-pad. A. Baumgartner. No. 1,338,669; May 4; v. 274; p. 4.
Board: *See*—
Game-board.
Ironing-board.
Paper-hanger's cutting-board.
Teeter-board.
Board-filling machine. C. A. Brewer. No. 1,339,595; May 11; v. 274; p. 252.
Boat-launching apparatus. C. H. Fuller. No. 1,339,647; May 11; v. 274; p. 262.
Boat or other vessel, Sheet-metal. W. Gardner. No. 1,340,441; May 18; v. 274; p. 470.
Boats, Hand-operated power mechanism for small. A. Pann. No. 1,340,976; May 25; v. 274; p. 642.
Boats, Means to propel. A. L. P. Talbot. No. 1,340,920; May 25; v. 274; p. 630.
Bobbin-cleaning machine. C. L. Hicks. No. 1,339,888; May 11; v. 274; p. 308.
Boiler: *See*—
Canning-boiler.
Clothes-boiler.
Milk-boiler.
Signaling-boiler.
Boiler. J. M. McClellon. No. 1,341,475; May 25; v. 274; p. 739.
Boiler and firebox construction. J. M. McClellon. No. 1,341,474; May 25; v. 274; p. 739.
Boiler and still, Combination. R. S. Mears. No. 1,339,470; May 11; v. 274; p. 228.
Boiler economizer and operating same, Steam-. D. S. Jacobus. No. 1,341,213; May 25; v. 274; p. 688.
Boiler-tube and combustion-chamber cleaner. J. Bennett. No. 1,340,144; May 18; v. 274; p. 414.
Boiler-tube and end-plate connection. C. S. Coleman. No. 1,340,118; May 11; v. 274; p. 351.
Boiler-tube cleaner, Duplex-acting percussion. W. Burlingham. No. 1,339,098; May 4; v. 274; p. 84.
Boiler-tube end section. C. S. Coleman. No. 1,339,739; May 11; v. 274; p. 279.
Bolting-up device. F. F. Whitmore. No. 1,340,470; May 18; v. 274; p. 475.
Bomb. C. R. Keeran. No. 1,340,546; May 18; v. 274; p. 489.
Bomb-dropping device. J. H. Barr. No. 1,339,432; May 11; v. 274; p. 220.
Book, Printed. H. W. Haight. No. 1,340,713; May 18; v. 274; p. 521.
Book-shelf. W. A. Borden. No. 1,340,317; May 18; v. 274; p. 445.
Book, Spoon and spinner. R. C. Stewart. No. 1,339,231; May 4; v. 274; p. 108.
Books, Blotting attachment for check-. A. Warshauer. No. 1,339,937; May 11; v. 274; p. 317.
Bookbinding. J. M. Myers. No. 1,341,575; May 25; v. 274; p. 708.
Bookmarker. R. N. Frame. No. 1,338,861; May 4; v. 274; p. 39.
Bookstand, Collapsible. P. Plenta. No. 1,341,195; May 25; v. 274; p. 684.
Boot and shoe. J. B. Hurteau. No. 1,340,049; May 11; v. 274; p. 338.
Boots and shoes and preparing same, Protecting-covering for. E. Llonne. No. 1,339,462; May 11; v. 274; p. 227.
Boring-head. H. Kreps. No. 1,341,565; May 25; v. 274; p. 756.
Bottle and jar closure. J. A. Loyster. No. 1,340,783; May 18; v. 274; p. 534.
Bottle-cap lifter. P. H. Welcker. No. 1,338,847; May 4; v. 274; p. 37.
Bottle-closure. C. E. McManus. No. 1,339,066; May 4; v. 274; p. 78.
Bottle hanger, Milk-. O. A. Smith. No. 1,339,792; May 11; v. 274; p. 289.
Bottle-holder. T. A. O'Reilly. No. 1,340,974; May 25; v. 274; p. 641.
Bottle holder, Nursery-. C. A. Boyce. No. 1,339,018; May 4; v. 274; p. 68.
Bottle holder, Sanitary milk-. F. E. Wocel. No. 1,341,607; May 25; v. 274; p. 763.
Bottle, Non-refillable. A. J. Carlin. No. 1,340,373; May 18; v. 274; p. 456.
Bottle-stopper. T. M. Moore. No. 1,340,237; May 18; v. 274; p. 431.
Bottles, Capping. B. F. Rochrig. No. 1,339,370; May 4; v. 274; p. 133.
Bowl hanger, Light-. A. J. Petersen. No. 1,338,958; May 4; v. 274; p. 57.
Bowling-alley. C. W. Stevens. No. 1,339,425; May 11; v. 274; p. 219.
Box: *See*—
Annealing-box.
Battery-box.
Collapsible box.
File-box.
Folding box.
Journal-box.
Knockdown box.
Locomotive driving-box.
Match-box.
Phonograph sound-box.
Safety-deposit box.
Sound-box.
Talcum-powder box.
Talking-machine sound-box.
Tool-box.
Box. N. O. Kenniker and F. A. Fritze, Jr. No. 1,340,119; May 11; v. 274; p. 352.
Box. P. C. Lavenberg. No. 1,340,489; May 18; v. 274; p. 478.
Box and bottle closure. C. J. Salviolo. No. 1,341,075; May 25; v. 274; p. 661.
Box-operating mechanism. W. Zeedyk. No. 1,339,999; May 11; v. 274; p. 328.
Brace: *See*—
Screen-door brace.
Silo-brace.
Brace for correcting foot-angles. E. Dahl. No. 1,340,700; May 18; v. 274; p. 519.
Bracelet-gage. C. H. Kemper. No. 1,339,896; May 11; v. 274; p. 309.

Bracket: *See*—
Electric-light bracket. Shade-bracket.
Roof-bracket. Shade and curtain-pole bracket.
Scaffold-bracket.

Bracket. A. Becker. No. 1,341,535; May 25; v. 274; p. 750.

Bracket. J. H. Rogers. No. 1,340,684; May 18; v. 274; p. 516.

Bracket. G. A. Ruple. No. 1,341,198; May 25; v. 274; p. 685.

Braiding or lacing machine. F. Kellner. No. 1,340,487; May 18; v. 274; p. 478.

Brake: *See*—
Air-brake. Fire-shutter brake.
Automobile-brake. Vacuum and compressed-air brake.
Coaster-brake. Wagon-brake.
Electropneumatic brake.
Electromagnetically-controlled brake.

Brake. P. Brown. No. 1,340,321; May 18; v. 274; p. 446.

Brake apparatus, Controller for electropneumatic. F. Goff. No. 1,339,754; May 11; v. 274; p. 282.

Brake-beam strut. C. F. Huntoon. No. 1,340,168; May 18; v. 274; p. 418.

Brake-beam support. T. L. Burton. No. 1,340,008; May 11; v. 274; p. 330.

Brake-beam support. T. L. Burton. No. 1,340,009; May 11; v. 274; p. 330.

Brake-beam support. T. L. Burton. No. 1,340,010; May 11; v. 274; p. 310.

Brake-lining dressing. G. E. Calhoun. No. 1,338,811. May 4; v. 274; p. 30.

Brake mechanism. A. H. Peycke. No. 1,339,414; May 11; v. 274; p. 217.

Brake-rigging. A. H. Peycke. No. 1,339,415; May 11; v. 274; p. 217.

Brake-rigging arrangement. A. H. Peycke. No. 1,339,413; May 11; v. 274; p. 217.

Brake supporting and leveling device. A. H. Peycke. No. 1,339,416; May 11; v. 274; p. 217.

Brakes, Equalizing device for trailer-. E. F. Kelley. No. 1,341,617; May 25; v. 274; p. 765.

Branding-machine. H. C. Wilkinson. No. 1,341,449; May 25; v. 274; p. 733.

Bread cutter and stacker, Combined. J. Anstice. No. 1,341,452; May 25; v. 274; p. 734.

Bread-molding machine. J. Artkop. No. 1,339,087; May 4; v. 274; p. 82.

Breech-closure. T. H. Eickhoff and O. V. Payne. No. 1,340,943; May 25; v. 274; p. 635.

Breech-closure. O. B. Graham. No. 1,340,891; May 25; v. 274; p. 625.

Brooch, Finishing-. F. J. Lapointe. No. 1,339,657; May 11; v. 274; p. 264.

Brooder. C. H. Landenberger. No. 1,339,264; May 4; v. 274; p. 113.

Broom. T. A. Voss. No. 1,341,526; May 25; v. 274; p. 748.

Broom-corn and maize cutter. J. E. Pelnar. No. 1,339,282; May 4; v. 274; p. 116.

Brooms, Cleaning attachment for whisk-. H. S. Webster. No. 1,341,091; May 25; v. 274; p. 664.

Brooms, Duster attachment for. D. R. Kelly. No. 1,339,767; May 11; v. 274; p. 285.

Brush. C. E. Cazel and J. W. Le Craw. No. 1,340,931; May 25; v. 274; p. 632.

Brush. J. Gasser. No. 1,340,040; May 11; v. 274; p. 336.

Brush. T. W. Johnson. No. 1,339,894; May 11; v. 274; p. 309.

Brush, Combination-. W. S. Dunaway. No. 1,339,745; May 11; v. 274; p. 280.

Brush-cover. G. A. Loeben. No. 1,341,329; May 25; v. 274; p. 710.

Brush, Fountain-. W. Grace. No. 1,340,043; May 11; v. 274; p. 337.

Brush, Fountain shoe-. C. J. Mills. No. 1,340,283; May 18; v. 274; p. 439.

Brush, Shaving-. W. H. McEvilla. No. 1,339,065; May 4; v. 274; p. 78.

Bucket-car. C. W. Schworm. No. 1,339,584; May 11; v. 274; p. 250.

Bucket hanger, Paint-. C. M. Garst. No. 1,339,025; May 4; v. 274; p. 69.

Buckle. C. H. Grings. No. 1,341,315; May 25; v. 274; p. 707.

Buckle. A. J. Sterne. No. 1,340,302; May 18; v. 274; p. 442.

Buckle. A. J. Sterne. No. 1,340,303; May 18; v. 274; p. 443.

Buckle, Belt-. S. Buchsbaum. No. 1,340,821; May 18; v. 274; p. 541.

Buckle, Trace-. J. G. Pockert. No. 1,340,792; May 18; v. 274; p. 535.

Building construction. T. Depatie. No. 1,339,596; May 11; v. 274; p. 252.

Building construction. H. Hauss. No. 1,339,388; May 11; v. 274; p. 212.

Building, Sectional. R. C. Rowan. No. 1,340,561; May 18; v. 274; p. 492.

Building unit. C. M. Goodrich. No. 1,340,949; May 25; v. 274; p. 636.

Bull-wheel. P. Yorke. No. 1,341,096; May 25; v. 274; p. 665.

Bullets, Machine for dropping. C. F. Benjamin. No. 1,340,432; May 18; v. 274; p. 468.

Bumper. J. J. Condran. No. 1,339,167; May 4; v. 274; p. 96.

Bumper. W. H. Moore, Jr. No. 1,341,572; May 25; v. 274; p. 757.

Bundles, &c., Machine for tying. E. W. Jenkins. No. 1,339,396; May 11; v. 274; p. 213.

Bunk-block. W. G. Kelly. No. 1,340,055; May 11; v. 274; p. 339.

Buoy. W. S. Crouch. No. 1,339,321; May 4; v. 274; p. 123.

Burner: *See*—
Crude-oil burner. Hydrocarbon-burner.
Fuel-burner. Lantern-burner.
Fuel-oil burner. Liquid-fuel burner.
Gas-burner. Oil-burner.
Gas and crude-oil burner. Wood-refuse burner.

Bushing and valve, Combined. J. A. Anderson. No. 1,340,810; May 18; v. 274; p. 538.

Bushing-holder. V. Forsman and E. Danielson. No. 1,339,448; May 11; v. 274; p. 224.

Bushings, Device for removing. A. Johnson. No. 1,341,132; May 25; v. 274; p. 672.

Button. S. A. Glynn. No. 1,340,390; May 18; v. 274; p. 460.

Button-attaching machine. Button-feed mechanism for. S. L. Sneierson. No. 1,339,324; May 4; v. 274; p. 124.

Button, Cuff-. J. A. Jacobs. No. 1,341,130; May 25; v. 274; p. 671.

Button, Cuff-. O. Pullen. No. 1,339,713; May 11; v. 274; p. 275.

Button-fastener. A. Moses. No. 1,340,073; May 11; v. 274; p. 342.

Button-fastener. A. J. Taylor. No. 1,339,234; May 4; v. 274; p. 108.

Button, Push-. S. Anthony. No. 1,340,139; May 18; v. 274; p. 413.

Buttons, Manufacture of. E. L. Anderson. No. 1,340,515; May 18; v. 274; p. 483.

Cab, Tractor-. H. V. Browne. No. 1,341,355; May 25; v. 274; p. 715.

Cabinet. C. Bergmann. No. 1,339,842; May 11; v. 274; p. 299.

Cabinet, Blotting-paper. C. W. Selden. No. 1,339,140; May 4; v. 274; p. 92.

Cabinet, Check-. J. A. Kidwell. No. 1,340,231; May 18; v. 274; p. 430.

Cabinet, Check and deposit-slip. G. F. Brisendine. No. 1,339,255; May 4; v. 274; p. 112.

Cabinet, Filing-. E. V. Brown. No. 1,341,412; May 25; v. 274; p. 726.

Cabinet, Phonograph-. C. H. Gudegast. No. 1,340,766; May 18; v. 274; p. 530.

Cabinet, Printer's. F. J. Smith. No. 1,341,389; May 25; v. 274; p. 722.

Cabinet, Self-ejecting-record. H. S. Schissel. No. 1,339,291; May 4; v. 274; p. 118.

Cabinet, Sewing-machine. J. Dianiska. No. 1,339,501; May 11; v. 274; p. 234.

Cabinets, Cable-guide for drophead-sewing-machine. T. Kunditz. No. 1,338,834; May 4; v. 274; p. 34.

Cabinets, Self-raising lid for ice-cream. C. R. Ragsdale. No. 1,341,518; May 25; v. 274; p. 746.

Cable-clamp. W. W. Pope. No. 1,341,438; May 25; v. 274; p. 731.

Cable-splicing machine, Wire-. J. Olson. No. 1,341,579; May 25; v. 274; p. 758.

Cable structure and making same, Bonded-wire-. R. C. Pierce. No. 1,339,417; May 11; v. 274; p. 217.

Cableway, Marine. T. S. Miller. (Reissue.) No. 14,858; May 18; v. 274; p. 549.

Calculating-machine. C. Birth. No. 1,339,542; May 11; v. 274; p. 242.

Calculating-machine. J. C. Enberg. No. 1,341,049; May 25; v. 274; p. 656.

Calculator, Spherical triangle. R. Huntington. No. 1,338,730; May 4; v. 274; p. 15.

Calendar. A. Latier. No. 1,339,401; May 11; v. 274; p. 214.

Calendar accounting means. J. E. Phillips. No. 1,341,018; May 25; v. 274; p. 650.

Calender-guide. T. P. Little. No. 1,340,234; May 18; v. 274; p. 430.

Call-distributing system. L. Polinkowsky. No. 1,340,979; May 25; v. 274; p. 642.

Cam. P. W. Murphy. No. 1,339,276; May 4; v. 274; p. 115.

Cam and push-rod machine. J. Holle. No. 1,340,717; May 18; v. 274; p. 521.

Camera. K. Chen. No. 1,339,319; May 4; v. 274; p. 123.

Camera. W. T. Cardwell. No. 1,341,543; May 25; v. 274; p. 751.

Camera. R. H. Pearman. No. 1,341,017; May 25; v. 274; p. 650.

Camera, Copying and enlarging. J. Becker. No. 1,339,090; May 4; v. 274; p. 82.

Camera, Motion-picture. J. A. Golden. No. 1,340,539; May 18; v. 274; p. 48.

Camera-timing device. N. S. McEwen. No. 1,339,117; May 4; v. 274; p. 88.

Cameras, Leveling attachment for. D. D. Hahne. No. 1,341,553; May 25; v. 274; p. 753.

Cameras, Shutter mechanism for motion-picture. E. J. Pennypacker. No. 1,340,557; May 18; v. 274; p. 491.

Cameras, View-finder for. H. A. McCallum. No. 1,340,618; May 18; v. 274; p. 503.

Cameras, View-finder for. H. A. McCallum. No. 1,340,619; May 18; v. 274; p. 503.

Camp-table, Folding automobile. R. B. Holland. No. 1,339,028; May 4; v. 274; p. 70.

Camping outfit. A. C. Sagel. No. 1,341,441; May 25; v. 274; p. 732.

Can: *See*—
Oil-can.

Can-closing machines, Packer for filled-. I. F. Warme and R. A. Blood. No. 1,341,487; May 25; v. 274; p. 741.

Can-cover-removing apparatus. J. M. Rude. No. 1,340,409; May 18; v. 274; p. 463.

Can-filling machine. J. Schmidt, Jr. No. 1,340,185; May 18; v. 274; p. 421.

Can nozzle and closure therefor, Metal-. G. A. Williams. No. 1,339,245; May 4; v. 274; p. 110.

Can-opener. C. Finley. No. 1,341,421; May 25; v. 274; p. 728.

Can or container. J. R. Harbeck. No. 1,338,688; May 4; v. 274; p. 7.

Can-polishing machine. O. W. Mojonnier. No. 1,338,949; May 4; v. 274; p. 55.

Can-sealing composition. T. C. Wester. No. 1,341,489; May 25; v. 274; p. 742.

Can-treating apparatus. J. M. Rude. No. 1,340,408; May 18; v. 274; p. 463.

Cane-crushing apparatus. H. Hurter. No. 1,339,600; May 11; v. 274; p. 253.

Canning-boiler. P. Belvin. No. 1,341,353; May 25; v. 274; p. 715.

Cap, Bottle-. J. A. Kaye. No. 1,341,177; May 25; v. 274; p. 681.

Cap, Chimney-. A. M. Peterson. No. 1,340,459; May 18; v. 274; p. 473.

Cap, Plant-protecting. W. R. Schindler. No. 1,340,631; May 18; v. 274; p. 506.

Cap, Stovepipe-. P. Fojtik. No. 1,340,033; May 11; v. 274; p. 335.

Caps for receptacles, Forming two-piece. C. R. Keeran. No. 1,340,449; May 18; v. 274; p. 471.

Car anchorage, Tank-. W. J. Tangerman. No. 1,340,188; May 18; v. 274; p. 422.

Car-axle lubricator. J. M. Urbieta. No. 1,340,808; May 18; v. 274; p. 538.

Car, Convertible. E. J. Lowry. No. 1,338,942; May 4; v. 274; p. 54.

Car, Convertible stock and freight. E. Wyatt. No. 1,338,805; May 4; v. 274; p. 29.

Car-coupling. G. W. Gill. No. 1,340,538; May 18; v. 274; p. 488.

Car-coupling. W. Kelso. No. 1,339,030; May 4; v. 274; p. 70.

Car-coupling. E. Vinograd and Md. Groten. No. 1,339,489; May 11; v. 274; p. 231.

Car coupling, Automatic mine-. J. T. Blackledge. No. 1,339,016; May 4; v. 274; p. 67.

Car door, Grain-. A. Switzer. No. 1,341,397; May 25; v. 274; p. 723.

Car-draft-arm, Railway-. C. J. Nash. No. 1,340,285; May 18; v. 274; p. 439.

Car, Hot-metal. C. P. Astrom. No. 1,341,291; May 25; v. 274; p. 702.

Car-loading device. W. C. Stevenson. No. 1,340,574; May 18; v. 274; p. 494.

Car-locking device, Motor-. C. L. Randolph. No. 1,341,281; May 25; v. 274; p. 700.

Car-mover. E. E. Chapman. No. 1,340,523; May 18; v. 274; p. 484.

Car, Pipe-rack drier-. J. P. Martin. No. 1,339,119; May 4; v. 274; p. 88.

Car-roof. T. N. Russell. No. 1,340,685; May 18; v. 274; p. 516.

Car-roof construction, Railway-. S. Otis. No. 1,340,667; May 18; v. 274; p. 512.

Car-step. G. A. Gilbert. No. 1,341,310; May 25; v. 274; p. 706.

Car-underframe. R. C. Taft. No. 1,340,576; May 18; v. 274; p. 495.

Car-wheel lathe. M. F. Boughen. No. 1,339,017; May 4; v. 274; p. 68.

Cars, Automatic coupling for fluid-conducting pipes of railway-. S. A. Rousseau. No. 1,339,042; May 4; v. 274; p. 73.

Cars, Draft-rigging for railway-. W. J. Regan. No. 1,339,714; May 11; v. 274; p. 275.

Cars, Draft-rigging for railway-. J. F. O'Connor. No. 1,341,149; May 25; v. 274; p. 675.

Cars, Fan-belt guide for Ford and other. P. C. Morris. No. 1,339,408; May 11; v. 274; p. 216.

Cars, Hand-brake for railway-. P. Brown. No. 1,340,322; May 18; v. 274; p. 446.

Cars, Hand-brake for railway-. P. Brown. No. 1,340,323; May 18; v. 274; p. 446.

Cars, Lumber-loading roll for. H. J. Snyder. No. 1,340,507; May 18; v. 274; p. 482.

Cars, Outlet-valve mechanism for tank-. G. F. Wood-Smith. No. 1,339,083; May 4; v. 274; p. 81.

Cars, Side bearing for railway-. J. F. O'Connor. No. 1,338,747; May 4; v. 274; p. 18.

Carbon-gland. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,338,955; May 4; v. 274; p. 56.

Carbonaceous material, Apparatus for distilling. W. P. Perry. No. 1,341,517; May 25; v. 274; p. 746.

Carbonizing material, Making. N. B. Radabaugh. No. 1,338,841; May 4; v. 274; p. 35.

Carbureter. G. E. Bradshaw. No. 1,339,095; May 4; v. 274; p. 83.

Carbureter. O. R. Hukle. No. 1,340,956; May 25; v. 274; p. 637.

Carbureter. J. A. Kline. No. 1,340,720; May 18; v. 274; p. 522.

Carbureter. J. H. Lytle and J. J. McFarland. No. 1,339,403; May 11; v. 274; p. 215.

Carbureter. F. C. Mock. No. 1,339,214; May 4; v. 274; p. 105.

Carbureter. E. C. Newcomb. No. 1,339,218; May 4; v. 274; p. 105.

Carbureter. P. Povlotzky. No. 1,338,960; May 4; v. 274; p. 57.

Carbureter. R. S. Smith. No. 1,340,123; May 11; v. 274; p. 352.

Carbureter-adjusting device. T. D. Adair, Jr. No. 1,339,849; May 4; v. 274; p. 37.

Carbureters, Dust-collector for. C. H. Stinson. No. 1,339,609; May 11; v. 274; p. 255.

Carbureters, Vacuum-feed attachment for. F. V. Risinger. No. 1,340,983; May 25; v. 274; p. 643.

Card-file. W. L. Dinsmoor. No. 1,340,757; May 18; v. 274; p. 529.

Card-holder for record system. E. Lavergne dit Renaud. No. 1,338,790; May 4; v. 274; p. 26.

Cardboard and like boxes which are made collapsible. A. Aviss. No. 1,338,664; May 4; v. 274; p. 3.

Carpet-stitching device. C. Valenta. No. 1,339,307; May 4; v. 274; p. 121.

Carpets, floor-rugs, &c., Machine for printing. P. H. McGlehan. No. 1,338,785; May 4; v. 274; p. 25.

Carriage-threading device. D. Blydenburgh. No. 1,338,809; May 4; v. 274; p. 30.

Carriage-top. C. A. Lindberg. No. 1,340,279; May 18; v. 274; p. 438.

Carriages, Collapsible screen for baby-. L. N. Sperling and C. J. Harris. No. 1,339,527; May 11; v. 274; p. 239.

Carriages, Running-gear for children's. C. A. Lindberg. No. 1,339,961; May 11; v. 274; p. 321.

Carrier: *See*—
Ice-cream-cone carrier. Tire-carrier.
Pocketed carrier. Woven carrier.
Roll-film carrier. Woven pocketed carrier.
Sleigh-carrier.

Carrier and producing same, Pocketed. G. W. Spalding. No. 1,339,794; May 11; v. 274; p. 290.

Carrier and producing same, Pocketed. G. W. Spalding. No. 1,339,795; May 11; v. 274; p. 290.

Carrier-receptacle. R. P. Orr. No. 1,340,077; May 11; v. 274; p. 343.

Cart. J. Hintz. No. 1,339,624; May 11; v. 274; p. 258.

Cartons, End-folding and sealing machine for. G. A. Robinson. No. 1,338,749; May 4; v. 274; p. 19.

Cartridge-belt. H. B. Cooley. No. 1,341,111; May 25; v. 274; p. 668.

Cartridge-tube filler. S. Paulson. No. 1,340,737; May 18; v. 274; p. 528.

Case: *See*—
Egg-case. Filing-case.

Cash-register printing mechanism. F. M. Carroll. No. 1,338,903; May 4; v. 274; p. 47.

Caster, Adjustable. C. S. Beardsley. No. 1,339,805; May 11; v. 274; p. 292.

Casting iron screen-plates for steel grids. D. Brown. No. 1,339,096; May 4; v. 274; p. 84.

Casting of aluminum and another metal, Making a composite. H. B. Hiteshaw. No. 1,339,956; May 11; v. 274; p. 321.

Casting process. A. G. Gruss and P. Geyer. No. 1,341,461; May 25; v. 274; p. 736.

Catalyst and producing same. N. Sulzberger. No. 1,338,709; May 4; v. 274; p. 11.

Catalyzers, Apparatus for making. W. D. Richardson. No. 1,338,638; May 4; v. 274; p. 9.

Catalysts, Manufacture of. J. Boyce. No. 1,339,686; May 11; v. 274; p. 270.

Celluloid insulation. M. D. Sweet. No. 1,339,835; May 11; v. 274; p. 298.

Cellulose-acetate solutions, Production of. T. Tyrer. No. 1,339,728; May 11; v. 274; p. 277.

Cement-mixer. P. O. Egeland. No. 1,340,880; May 25; v. 274; p. 623.

Cement, Refractory-. S. A. McMinn. No. 1,341,510; May 25; v. 274; p. 745.

Centrifugal apparatus with planetary movement. W. Mauss. No. 1,339,272; May 4; v. 274; p. 114.

Chain. F. G. Gale. No. 1,341,052; May 25; v. 274; p. 657.

Chain. G. W. Goodridge. No. 1,340,765; May 18; v. 274; p. 530.

Chain attachment. E. J. Brooks. (Reissue.) No. 14,851; May 4; v. 274; p. 135.

Chain-fastener. J. H. Hecker. No. 1,340,484; May 18; v. 274; p. 477.

Chain-making machine. H. Weinacker. No. 1,340,639; May 18; v. 274; p. 507.

Chain, Non-skid. J. F. Parker. No. 1,340,182; May 18; v. 274; p. 421.

Chain, Non-skid. J. F. Parker. No. 1,340,183; May 18; v. 274; p. 421.
Chain repair-links, Antiskid-. O. H. Butler. No. 1,338,851; May 4; v. 274; p. 37.
Chain, Sprocket-. L. Bethke. No. 1,338,808; May 4; v. 274; p. 30.
Chain tightener, Antiskid-. N. J. Mayland. No. 1,341,241; May 25; v. 274; p. 693.
Chains, Weld-testing device for. E. J. von Henke. No. 1,339,610; May 11; v. 274; p. 255.
Chair: *See*—
Folding chair. Opera-chair.
Chair. G. W. Martin. No. 1,339,068; May 4; v. 274; p. 78.
Chair. O. A. Shaw. No. 1,341,596; May 25; v. 274; p. 761.
Chair and carriage, Collapsible baby and wheeling. D. L. Kohlman. No. 1,339,355; May 4; v. 274; p. 130.
Change-counter. W. N. Dovener. No. 1,338,683; May 4; v. 274; p. 7.
Check, Door-. J. C. Schmidt. No. 1,339,479; May 11; v. 274; p. 230.
Check-valve mechanism, Automatic. M. B. Nye. No. 1,339,128; May 4; v. 274; p. 90.
Check-writer. C. Wendelken. No. 1,340,429; May 18; v. 274; p. 468.
Check writer, Bank-. C. Wendelken. No. 1,340,428; May 18; v. 274; p. 467.
Cheese-cutting machine. W. Fachndrich. No. 1,340,479; May 18; v. 275; p. 476.
Chest. E. A. Heidtmann. No. 1,341,125; May 25; v. 274; p. 670.
Chiropractor's table. G. C. Oakes. No 1,339,038; May 4; v 274; p. 72.
Chlorin-cell. T. A. Patterson. No. 1,341,516; May 25; v. 274; p. 746.
Chopper: *See*—
Cotton-chopper.
Chuck. H. S. Hubbell. No. 1,338,775; May 4; v. 274; p. 24.
Chuck. A. J. Lavoie. No. 1,341,015; May 25; v. 274; p. 649.
Chuck, Automatic reversible driving-. R. P. Tarbutton. No. 1,341,085; May 25; v. 274; p. 663.
Chuck, Drill-. A. L. Strong. No. 1,340,845; May 18; v. 274; p. 545.
Chuck, Electromagnetic. L. W. Dunbar. No. 1,339,553; May 11; v. 274; p. 244.
Churn. D. T. Lowe. No. 1,340,491; May 18; v. 274; p. 479.
Churn. R. A. Thompson and L. P. Morris. No. 1,340,466; May 18; v. 274; p. 474.
Cigar-lighter, pipe-lighter, and the like, Electric. R. J. H. Hill. No. 1,340,716; May 18; v. 274; p. 521.
Cigar-wrappers, Making. W. J. Goodfellow. No. 1,338,822; May 4; v. 274; p. 33.
Cinematograph-film spool, Friction braking means for. W. A. Graham. No. 1,340,710; May 18; v. 274; p. 520.
Circles of given diameters, Device for quickly tracing. N. B. Costovici. No. 1,341,457; May 25; v. 274; p. 735.
Circuit-breaker. I. W. Broegger. No. 1,338,971; May 4; v. 274; p. 59.
Circuit-breaker. F. W. Roller. No. 1,339,981; May 11; v. 274; p. 325.
Circuit-breaker structure, Shockproof. W. M. Scott. No. 1,340,564; May 18; v. 274; p. 493.
Circuit-breaking apparatus, Overload-. E. O. Schweitzer. No. 1,340,917; May 25; v. 274; p. 630.
Circuit-closer. C. W. Squires. No. 1,341,347; May 25; v. 274; p. 713.
Circuit-closer, Float-operated. M. H. Toland. No. 1,339,239; May 4; v. 274; p. 109.
Circuit-closer, Fluid-pressure. T. E. Brazeal. No. 1,338,896; May 4; v. 274; p. 45.
Circuit-closer, Thermal. H. Siehen and B. C. Haldeman. No. 1,340,919; May 25; v. 274; p. 630.
Circuit-controller. C. T. Henderson. No. 1,339,456; May 11; v. 274; p. 225.
Circuit-lock. W. F. Rotermund. No. 1,339,003; May 4; v. 274; p. 65.
Circuits, Reverse-phase relay for use in connection with polyphase alternating-current. E. L. Gale, Sr. No. 1,339,192; May 4; v. 274; p. 100.
Clamp: *See*—
Cable-clamp. Rod-splicing clamp.
Hose-clamp. Wire-line clamp.
Rail-clamp.
Clamp. A. Link. No. 1,339,830; May 11; v. 274; p. 297.
Clamp-tank, Knockdown. J. F. A. Deck. No. 1,341,549; May 25; v. 274; p. 752.
Clasp. P. W. Murray. No. 1,340,284; May 18; v. 274; p. 439.
Clasp. J. C. Sanders. No. 1,340,985; May 25; v. 274; p. 644.
Clasp. S. Schrantz. No. 1,338,702; May 4; v. 274; p. 10.
Clay ware, Method and apparatus for burning. C. B. Harrop. No. 1,338,771; May 4; v. 274; p. 23.
Cleaner: *See*—
Boiler-tube cleaner. Comb-cleaner.
Boiler-tube and combustion-chamber cleaner. Conduit-cleaner.
Windshield-cleaner.
Cleaning and polishing, Composition for. B. A. Barnes. No. 1,340,747; May 18; v. 274; p. 527.
Cleaning-machine, Portable. S. B. Pack. No. 1,339,280; May 4; v. 274; p. 116.
Cleansing and sterilizing preparation. C. E. North. No. 1,339,783; May 11; v. 274; p. 288.
Cleansing compound and making same. E. Baum. No. 1,340,315; May 18; v. 274; p. 445.
Clevis. C. Bettger. No. 1,340,105; May 11; v. 274; p. 348.
Clip: *See*—
Collar-clip. Penholder-clip.
Paper-clip.
Clockwork, Cutting and rounding-off machine for teeth for. F. L. W. Buckmann. No. 1,341,541; May 25; v. 274; p. 751.
Closet: *See*—
Water-closet.
Closet-seat device. W. E. Sloan. No. 1,339,585; May 11; v. 274; p. 250.
Cloth fabric. S. F. Swantees. No. 1,341,396; May 25; v. 274; p. 723.
Cloth-winding machine. C. E. Money. No. 1,340,178; May 18; v. 274; p. 420.
Clothes and hat stand. J. Booth. No. 1,341,106; May 25; v. 274; p. 667.
Clothes-boiler. N. Rubenstein. No. 1,341,073; May 25; v. 274; p. 661.
Clothes-hook. A. B. Claflin. No. 1,340,014; May 11; v. 274; p. 331.
Clothes-reel. C. E. Niles. No. 1,340,494; May 18; v. 274; p. 479.
Clothesline. I. Rudolph. No. 1,341,591; May 25; v. 274; p. 761.
Clothesline-supporter. E. F. Markham. No. 1,340,070; May 11; v. 274; p. 341.
Clothespin. J. L. Whitted. No. 1,340,095; May 11; v. 274; p. 346.
Clothespin, Locking-. W. R. Derr. No. 1,340,159; May 18; v. 274; p. 417.
Clutch. C. V. Nordberg. No. 1,338,788; May 4; v. 274; p. 26.
Clutch. J. G. Vincent. No. 1,339,047; May 4; v. 274; p. 74.
Clutch. S. O. White. No. 1,339,801; May 11; v. 274; p. 291.
Clutch. A. E. Woodhouse. No. 1,338,891; May 4; v. 274; p. 44.
Clutch and braking mechanism. J. C. Kelly and C. Enscoe. No. 1,340,897; May 25; v. 274; p. 626.
Clutch and fuel supply control mechanism. E. V. and F. T. Collins. No. 1,339,435; May 11; v. 274; p. 221.
Clutch, Automatically-releasing. J. F. Stowe. No. 1,340,124; May 11; v. 274; p. 353.
Clutch, Disk. L. C. Fuller. No. 1,340,885; May 25; v. 274; p. 624.
Coal-bag. H. Josephson. No. 1,339,851; May 11; v. 274; p. 301.
Coaling device. Y. Brouwers. No. 1,340,819; May 18; v. 274; p. 540.
Coaster-brake. W. F. Emerson. No. 1,340,386; May 18; v. 274; p. 459.
Coat-front, Hair-lock. J. Moritz. No. 1,339,274; May 4; v. 274; p. 115.
Coating apparatus. E. P. Lindahl. No. 1,338,940; May 4; v. 274; p. 53.
Coating apparatus. E. L. A. Savy. No. 1,341,023; May 25; v. 274; p. 651.
Coating apparatus and method of coating. E. P. Lindahl. No. 1,338,782; May 4; v. 274; p. 25.
Coating composition for iron, steel, and wood. A. C. Holzapfel and P. Walther. No. 1,338,921; May 4; v. 274; p. 50.
Coating, Method of and apparatus for applying liquid. E. C. Alleman. No. 1,340,645; May 18; v. 274; p. 508.
Cock. F. M. P. Blache. No. 1,340,107; May 11; v. 274; p. 349.
Cock, Gas-. G. H. Harris. No. 1,339,882; May 11; v. 274; p. 307.
Coffee-cutting. E. F. Schnuck. No. 1,341,200; May 25; v. 274; p. 685.
Coffee-grinding mill. K. S. Stenbo. No. 1,340,635; May 18; v. 274; p. 506.
Coffee-roasting machine. F. A. Wilcox and E. L. McGrory. No. 1,340,692; May 18; v. 274; p. 517.
Coffee-urn. A. M. Salazar. No. 1,341,520; May 25; v. 274; p. 747.
Coffee-urn. J. N. Shaw. No. 1,341,285; May 25; v. 274; p. 701.
Coil-box protector. H. E. S. Lorenz. No. 1,339,568; May 11; v. 274; p. 247.
Coin-boxes, Registering-circuits for. G. K. Thompson. No. 1,340,260; May 18; v. 274; p. 435.
Coin-collector. H. H. Baumgartner. No. 1,341,534; May 25; v. 274; p. 750.
Coin-controlled lock. W. R. Neckerman. No. 1,341,433; May 25; v. 274; p. 730.
Coin-wrapping machine. A. V. Chamberlin. No. 1,339,808; May 11; v. 274; p. 293.
Coke-oven plant. C. Still and C. Wessel. No. 1,340,990; May 25; v. 274; p. 644.
Collapsible box. C. F. Christopher. No. 1,339,021; May 4; v. 274; p. 68.
Collapsible box. C. W. Lewis. No. 1,341,429; May 25; v. 274; p. 729.
Collapsible stand. W. H. Boze. No. 1,340,370; May 18; v. 274; p. 456.

Collar-clip. K. Staufenbeil. No. 1,339,073; May 4; v. 274; p. 79.
Colors, Manufacture of. G. B. Palmer. No. 1,339,219; May 4; v. 274; p. 106.
Colter hub, Rolling-disk-. W. R. Wilson. No. 1,340,693; May 18; v. 274; p. 517.
Comb. J. A. Cypert. No. 1,340,379; May 18; v. 274; p. 457.
Comb. G. G. Givens. No. 1,340,948; May 25; v. 274; p. 636.
Comb. S. Synohubyk. No. 1,341,158; May 25; v. 274; p. 677.
Comb. S. G. Tankins. No. 1,339,632; May 11; v. 274; p. 259.
Comb-cleaner. I. Brandon. No. 1,340,817; May 18; v. 274; p. 540.
Comb-cleaner. H. Lanfear. No. 1,338,937; May 4; v. 274; p. 53.
Comb-cleaner. G. Rechter. No. 1,339,863; May 11; v. 274; p. 303.
Combination-gage. W. Salt. No. 1,341,481; May 25; v. 274; p. 740.
Combination-lock. G. B. Poindexter. No. 1,339,668; May 11; v. 274; p. 266.
Combination-lock. F. C. Staver. No. 1,338,796; May 4; v. 274; p. 28.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,923; May 4; v. 273; p. 50.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,924; May 4; v. 274; p. 50.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,925; May 4; v. 274; p. 51.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,926; May 4; v. 274; p. 51.
Combustion by flow and pressure, Controlling. J. M. Hopwood. No. 1,338,927; May 4; v. 274; p. 51.
Combustion, Method of and apparatus for regulating. T. A. Peebles. No. 1,339,000; May 4; v. 274; p. 65.
Combustion, Regulating. T. A. Peebles. No. 1,338,956; May 4; v. 274; p. 57.
Combustion regulating method and mechanism. F. H. Brown and J. M. Hopwood. No. 1,338,899; May 4; v. 274; p. 46.
Comfort-frame. L. S. Slocum. No. 1,341,483; May 25; v. 274; p. 740.
Communication-controlling device. I. S. Merrell. No. 1,340,552; May 18; v. 274; p. 490.
Commutator. O. Kersten. No. 1,340,857; May 18; v. 274; p. 547.
Compass. S. E. Andrews. No. 1,338,666; May 4; v. 274; p. 3.
Compass, Magnetic. G. R. C. Campbell; No. 1,341,296; May 25; v. 275; p. 703.
Computing-table device. A. A. Wray. No. 1,338,892; May 4; v. 274; p. 45.
Concrete bricks, Apparatus for making hollow. A. O. Crozier. No. 1,340,824; May 18; v. 274; p. 541.
Concrete, Means for suspending fastening elements from. J. G. Pool. No. 1,341,585; May 25; v. 274; p. 759.
Concrete-mixer. A. L. Hale. No. 1,341,316; May 25; v. 274; p. 707.
Concrete-mixer loader. V. M. Price. No. 1,340,345; May 18; v. 274; p. 451.
Concrete rail and track. W. J. Platten. No. 1,339,046; May 4; v. 274; p. 74.
Condenser and making same. B. Macpherson. No. 1,341,336; May 25; v. 274; p. 711.
Condiment-holder. C. Douledes. No. 1,339,173; May 4; v. 274; p. 97.
Conductors, Support for line-. L. E. Hendee. No. 1,339,391; May 11; v. 274; p. 212.
Conduit-cleaner. E. Hall. No. 1,338,917; May 4; v. 274; p. 49.
Confectionery-coating machine. A. L. Bausman. No. 1,341,253; May 25; v. 274; p. 695.
Confectionery-machine. O. G. Kiefer. No. 1,341,137; May 25; v. 274; p. 673.
Connecting-rod. H. B. Layman. No. 1,340,171; May 18; v. 274; p. 419.
Connecting-rod. H. B. Layman. No. 1,340,172; May 18; v. 274; p. 419.
Connecting-rod. H. B. Layman. No. 1,340,173; May 18; v. 274; p. 419.
Container. G. A. Le Fevre and W. B. Hutchinson. No. 1,341,060; May 25; v. 274; p. 658.
Container. J. S. Peoples. No. 1,340,078; May 11; v. 274; p. 343.
Container. A. W. Wilkinson. No. 1,341,403; May 25; v. 274; p. 724.
Container for comminuted material. H. B. Pruden. No. 1,339,977; May 11; v. 274; p. 324.
Container, Liquid-. C. S. Baron. No. 1,340,872; May 25; v. 274; p. 621.
Container, Safety-. E. F. Nissen. No. 1,340,553; May 18; v. 274; p. 490.
Container, Safety-. E. F. Nissen. No. 1,340,555; May 18; v. 274; p. 491.
Container, Self-opening. C. Guerittey. No. 1,341,505; May 25; v. 274; p. 744.
Containers, Holder for liquid-. W. F. Close. No. 1,339,163; May 4; v. 274; p. 95.
Control apparatus. T. S. Pukernd. No. 1,339,906; May 11; v. 274; p. 311.
Control brake equipment, Remote-. W. V. Turner. No. 1,339,680; May 11; v. 274; p. 269.
Control system. J. A. Clarke, Jr. No. 1,339,945; May 11; v. 274; p. 319.
Control system. R. E. Hellmund. No. 1,339,929; May 11; v. 274; p. 315.
Controlling device. H. Catlin. No. 1,340,930; May 25; v. 274; p. 632.
Conveyer system. F. L. Stuart. No. 1,339,486; May 11; v. 274; p. 231.
Conveying mechanism. H. M. Lane. No. 1,340,962; May 25; v. 274; p. 639.
Cooker, Grain and food. I. G. Dakin. No. 1,339,323; May 4; v. 274; p. 124.
Cooking utensil. H. Grob. No. 1,338,830; May 4; v. 274; p. 33.
Coördinator. W. L. Owens. No. 1,340,623; May 18; v. 274; p. 504.
Cop or bobbin holder. E. F. Parks. No. 1,340,978; May 25; v. 274; p. 642.
Copy and book holder. H. Safford. No. 1,340,411; May 18; v. 274; p. 464.
Cord, Flexible. W. L. Runzel. No. 1,340,839; May 18; v. 274; p. 544.
Core lamination-sections, Production of. M. O. Troy. No. 1,339,990; May 11; v. 274; p. 327.
Cork-extractor. C. T. Madsen. No. 1,340,551; May 18; v. 274; p. 490.
Corking-machine, Automatic. H. G. Monkhorst. No. 1,339,904; May 11; v. 274; p. 310.
Corn, Apparatus for drying and hardening. R. H. McDowell. No. 1,341,275; May 25; v. 274; p. 699.
Corn-husker pin. L. F. Schrage. No. 1,340,419; May 18; v. 274; p. 466.
Corn-husking machine, Snapping-rolls for. L. A. Butterfield. No. 1,339,737; May 11; v. 274; p. 279.
Corn-picker. F. I. Friedline. No. 1,338,723; May 4; v. 274; p. 14.
Cornets, Mute for. F. A. Becker. No. 1,341,351; May 25; v. 274; p. 714.
Cornucopia-dispenser. F. Marek. No. 1,339,067; May 4; v. 274; p. 78.
Cost-keeping machine. J. W. Bryce. No. 1,340,435; May 18; v. 274; p. 469.
Cotton, Apparatus for handling. H. W. Ligon. No. 1,340,964; May 25; v. 274; p. 639.
Cotton-chopper. J. J. and O. J. Kriel. No. 1,340,057; May 11; v. 274; p. 339.
Cotton cullers, Seed-. J. T. Lawrence. No. 1,340,063; May 11; v. 274; p. 340.
Cotton-gin. R. S. Wheeler. No. 1,340,691; May 18; v. 274; p. 517.
Cotton, Machine for picking. W. Threadgill. No. 1,340,577; May 18; v. 274; p. 495.
Cotton, Method and apparatus for ginning. C. B. Cotton. No. 1,341,168; May 25; v. 274; p. 679.
Cotton-picker. J. H. C. Boig. No. 1,341,039; May 25; v. 274; p. 654.
Cotton-seed unloaders, Discharge device for. C. H. Golloher. No. 1,340,164; May 18; v. 274; p. 418.
Cotton-tramper. E. Munger. No. 1,340,971; May 25; v. 274; p. 641.
Couch. E. P. Smith. No. 1,339,608; May 11; v. 274; p. 255.
Counter, Dispensing-. W. L. Humphreys. No. 1,339,652; May 11; v. 274; p. 263.
Coupling: *See*—
Car-coupling. Magneto-coupling.
Draw-bar coupling. Pump-coupling.
Hose-coupling. Shaft-coupling.
Coupling. W. H. Kennedy. No. 1,341,135; May 25; v. 274; p. 672.
Coupling. M. H. Poirier. No. 1,340,739; May 18; v. 274; p. 525.
Cover-remover. A. S. Morange. No. 1,341,513; May 25; v. 274; p. 745.
Covers, Device for removing slip-. W. T. Schneeweiss. No. 1,340,413; May 18; v. 274; p. 464.
Cranberry-separator. W. E. Trufant. No. 1,339,077; May 4; v. 274; p. 80.
Cranes, Luffing mechanism for jib-. J. N. Goudie. No. 1,338,726; May 4; v. 274; p. 14.
Crate, Bottle-. A. L. Foreman. No. 1,340,881; May 25; v. 274; p. 623.
Crate, Collapsible poultry-. D. F. Black. No. 1,340,815; May 18; v. 274; p. 539.
Crate, Hog-breeding. A. W. Adix and G. W. Haglund. No. 1,340,357; May 18; v. 274; p. 453.
Cream-separator. J. Clark. No. 1,341,261; May 25; v. 274; p. 696.
Cross-bar switch. J. N. Reynolds and J. F. Hearn. No. 1,339,001; May 4; v. 274; p. 65.
Crude-oil burner. B. F. Runyan. No. 1,339,579; May 11; v. 274; p. 249.
Cruller-forming die. F. L. Bradbury. No. 1,340,371; May 18; v. 274; p. 456.
Crusher: *See*—
Single-roll crusher.
Crushing-mill, Rotary. L. Ross. No. 1,340,407; May 18; v. 274; p. 463.
Crutches, artificial limbs, and sticks, Pad used on. F. C. Lynde. No. 1,340,616; May 18; v. 274; p. 503.
Crutches, artificial limbs, and sticks, Pads used on. F. C. Lynde. No. 1,340,617; May 18; v. 274; p. 503.

Cuff-button, Separable. J. J. Bernier. No. 1,339,314; May 4; v. 274; p. 122.
Culinary device. R. Seidl. No. 1,340,566; May 18; v. 274; p. 493.
Cultivator. E. Marquardt. No. 1,341,064; May 25; v. 274; p. 659.
Cultivator. R. S. Mattingley. No. 1,341,240; May 25; v. 274; p. 693.
Cultivator, One-horse sulky-. A. W. Reynolds. No. 1,339,864; May 11; v. 274; p. 303.
Cup: *See*—
Priming-cup.
Current, Apparatus and method for rectifying high-tension alternating. W. A. Schmidt and L. Bradley. No. 1,340,502; May 18; v. 274; p. 481.
Current-regulating plug and socket. A. Papini. No. 1,338,998; May 4; v. 274; p. 64.
Current separating process and device, Upward-. C. Allen. No. 1,339,683; May 11; v. 274; p. 269.
Currents, Modulation of high-frequency. R. A. Heising. No. 1,341,211; May 25; v. 274; p. 687.
Curtain-fastener. H. K. Tarkington. No. 1,338,883; May 4; v. 274; p. 43.
Curtain-fitting. E. L. Wilson. No. 1,339,247; May 4; v. 274; p. 110.
Curtain-pile fixture, Drapery-. W. E. Kimber. No. 1,339,353; May 4; v. 274; p. 130.
Cushion-seat. J. J. Wiselogel. No. 1,339,537; May 11; v. 274; p. 241.
Cutter: *See*—
Broom-corn and maize cutter. Tooth-cutter. Vegetable-cutter.
Pipe-cutter.
Cutter. W. C. Farnum. No. 1,338,822; May 4; v. 274; p. 32.
Cutter. G. J. Pfister. No. 1,340,137; May 11; v. 274; p. 355.
Cutter. C. B. Sherlock and J. B. Morse. No. 1,340,800; May 18; v. 274; p. 537.
Cutter-bar and bushing therefor. F. J. Lapointe. No. 1,339,656; May 11; v. 274; p. 264.
Cutter-clearance gage. W. Dallas. No. 1,340,022; May 11; v. 274; p. 333.
Cutter-head. D. J. Dixon. No. 1,338,819; May 4; v. 274; p. 32.
Cutting-block. C. F. Connor. No. 1,340,018; May 11; v. 274; p. 332.
Cutting sheet material. C. B. Howard. No. 1,340,225; May 18; v. 274; p. 428.
Cutting-tool. A. R. Scott. No. 1,341,482; May 25; v. 274; p. 740.
Cutting-tools, Manufacturing. H. P. Arnold. No. 1,339,152; May 4; v. 274; p. 93.
Cyanid, Making sodium. A. Kaufman. No. 1,339,706; May 11; v. 274; p. 274.
Cylinders, Device for capping off. H. F. Hitner and T. E. Oakes. No. 1,339,200; May 4; v. 274; p. 102.
Cylinders, Portable boring and grinding device for automobile-. W. S. Myers and A. L. Smith. No. 1,339,409; May 11; v. 274; p. 216.
Damper control, Automatic. W. L. Mersfelder. No. 1,339,571; May 11; v. 274; p. 247.
Damper-regulator. G. W. Bigelow. No. 1,340,106; May 11; v. 274; p. 349.
Davits, Mechanism for turning ships'. A. Welin. No. 1,339,532; May 11; v. 274; p. 240.
Deflector. C. Fowler. No. 1,338,824; May 4; v. 274; p. 32.
Delivering apparatus. M. Bono. No. 1,340,748; May 18; v. 274; p. 527.
Dental articulator. R. E. Hall. No. 1,338,918; May 4; v. 274; p. 49.
Dental articulator. I. Nakahara. No. 1,341,191; May 25; v. 274; p. 683.
Dental engine. O. H. and A. F. Pieper. No. 1,340,908; May 25; v. 274; p. 628.
Dental-plate attachment. I. J. Dresch. No. 1,339,812; May 11; v. 274; p. 293.
Dental plate or denture. J. Williams. No. 1,339,640; May 11; v. 274; p. 261.
Dental work, Removable bridge for. A. S. Stone. No. 1,340,089; May 11; v. 274; p. 345.
Deposit-slip. N. E. Goldberg. No. 1,339,331; May 4; v. 274; p. 125.
Depth-gage. T. M. Gunn. No. 1,338,981; May 4; v. 274; p. 61.
Desiccation. A. W. Lissauer. No. 1,339,115; May 4; v. 274; p. 87.
Developing-rack. F. W. Barnes. No. 1,339,088; May 4; v. 274; p. 82.
Dial and dial fastener. W. T. Maloney. No. 1,338,745; May 4; v. 274; p. 18.
Diaper, Child's waterproof. E. D. Marsh. No. 1,339,602; May 11; v. 274; p. 253.
Diaphragm controller, Vibratory-. M. I. Williamson. No. 1,340,471; May 18; v. 274; p. 475.
Die: *See*—
Cruller-forming die. Universal die.
Die. T. Lund. No. 1,340,235; May 18; v. 274; p. 430.
Die and spiral. J. W. Thomas. No. 1,338,799; May 4; v. 274; p. 28.
Die-holder. R. T. McGee. No. 1,339,363; May 4; v. 274; p. 132.
Die or implement used in the manufacture of spark-plugs. E. Aschenbach. No. 1,341,453; May 25; v. 274; p. 734.
Dies and tools, Method of and means for extending the usable condition of metallic. H. R. Rosenbaum. No. 1,340,913; May 25; v. 274; p. 629.
Diestock. I. W. Nonneman. No. 1,338,863; May 4; v. 274; p. 39.
Diestock. I. W. Nonneman. No. 1,338,864; May 4; v. 274; p. 39.
Diestock. I. W. Nonneman. No. 1,338,865; May 4; v. 274; p. 40.
Diestock. I. W. Nonneman. No. 1,339,473; May 11; v. 274; p. 229.
Diestock. I. W. Nonneman. No. 1,340,972; May 25; v. 274; p. 641.
Diestock, Multiple. D. B. Igou. No. 1,340,227; May 18; v. 274; p. 429.
Differential gage. J. B. Wilkinson. No. 1,340,198; May 18; v. 274; p. 423.
Digger: *See*—
Potato-digger.
Digging-machine. J. M. Kincade. No. 1,341,138; May 25; v. 274; p. 673.
Dining-room set, Folding. H. A. St. John and G. H. Sauer. No. 1,339,232; May 4; v. 274; p. 108.
Direction-indicator. L. A. Bean. No. 1,340,363; May 18; v. 274; p. 454.
Direction-indicator. J. P. Becker. No. 1,341,352; May 25; v. 274; p. 714.
Direction-indicator. R. B. Pollock. No. 1,340,343; May 18; v. 274; p. 451.
Direction-indicator. J. H. Rabbitt. No. 1,340,081; May 11; v. 274; p. 343.
Direction-indicator. G. W. Ruhl. No. 1,340,082; May 11; v. 274; p. 344.
Direction-indicator. C. F. Shong. No. 1,340,988; May 25; v. 274; p. 644.
Dirigible light. W. M. Schafer. No. 1,341,593; May 25; v. 274; p. 761.
Disinfectant and odorizer. F. Lobl. No. 1,340,661; May 18; v. 274; p. 511.
Disintegrating-machine. H. Allen. No. 1,340,201; May 18; v. 274; p. 424.
Disk-record holder. F. Grammich. No. 1,339,194; May 4; v. 274; p. 101.
Dispensing apparatus. T. Tripolitis. No. 1,339,635; May 11; v. 274; p. 260.
Dispensing-machine. E. E. Bushell and M. E. Conkling. No. 1,340,822; May 18; v. 274; p. p. 541.
Display apparatus, Illuminated. O. Sperling. No. 1,341,201; May 25; v. 274; p. 686.
Display-carton. R. Van Iderstine. No. 1,340,744; May 18; v. 274; p. 526.
Display-exhibitor. P. P. Figueroa. No. 1,341,116; May 25; v. 274; p. 669.
Display-rack. A. E. Miller. No. 1,341,512; May 25; v. 274; p. 745.
Display vending-vehicle, Refrigerator. P. L. Serwe and G. C. Dickey. No. 1,340,853; May 18; v. 274; p. 547.
Distillation. E. E. Pershall. No. 1,341,437; May 25; v. 274; p. 731.
Distilling. A. Hayes. No. 1,338,983; May 4; v. 274; p. 61.
Distributer and connector, Combined. G. L. Lang. No. 1,338,989; May 4; v. 274; p. 62.
Distributing-machine. O. P. Greenwood. No. 1,339,557; May 11; v. 274; p. 244.
Distributing systems, Protective means for. C. L. Fortescue. No. 1,339,923; May 11; v. 274; p. 314.
Ditch-excavating machine. K. J. McDermott. No. 1,338,784; May 4; v. 274; p. 25.
Doll. G. J. Bernau. No. 1,340,848; May 18; v. 274; p. 546.
Doll. M. J. Duff. No. 1,340,160; May 18; v. 274; p. 417.
Door bumper, Automobile-. A. L. Miers. No. 1,340,621; May 18; v. 274; p. 504.
Door, Disappearing garage-. G. B. Boughton. No. 1,341,041; May 25; v. 274; p. 654.
Door, Grain-. N. Smithback and W. H. Meier. No. 1,340,506; May 18; v. 274; p. 482.
Door-hanger. T. V. Plice. No. 1,341,584; May 25; v. 274; p. 759.
Door-hanger. J. R. Salladay. No. 1,339,790; May 11; v. 274; p. 289.
Door-latching means. E. H. Belden. No. 1,339,492; May 11; v. 274; p. 232.
Door-lock. E. H. O'Brien. No. 1,340,398; May 18; v. 274; p. 461.
Door-lock. S. C. Sigman. No. 1,341,599; May 25; v. 274; p. 762.
Door-lock. J. Toney. No. 1,338,713; May 4; v. 274; p. 12.
Door-operating mechanism. S. J. Strid. No. 1,338,755; May 4; v. 274; p. 20.
Door-securer. T. C. Moore. No. 1,339,856; May 11; v. 274; p. 302.
Door, Silo-. T. B. Atkins. No. 1,341,533; May 25; v. 274; p. 749.
Doors, Air-opener for. J. Szczurek. No. 1,338,882; May 4; v. 274; p. 43.
Doors, Door-latch and controlling device for combined hinge and slide. T. V. Plice. No. 1,341,583; May 25; v. 274; p. 759.

Doors, Latch mechanism for silo-. F. A. Taylor. No. 1,340,922; May 25; v. 274; p. 630.
Doors, Power-operated mechanism for moving. H. Rowntree. No. 1,339,671; May 11; v. 274; p. 267.
Dough-compressor. R. R. Tybout. No. 1,339,637; May 11; v. 274; p. 260.
Doughnut-making machine. J. C. Thomson. No. 1,340,805; May 18; v. 274; p. 538.
Draft-creating device. C. Flagstad. No. 1,340,865; May 18; v. 274; p. 549.
Draft-rigging, Producing yokes for. J. W. Dalman. No. 1,340,528; May 18; v. 274; p. 485.
Draft-rigging, Tandem. G. Q. Lewis. No. 1,340,490; May 18; v. 274; p. 478.
Drag. C. E. Nelson. No. 1,339,664; May 11; v. 274; p. 266.
Drag-lifter. J. Tillmann. No. 1,341,159; May 25; v. 274; p. 677.
Drag, Sheller-. E. J. Gretencord. No. 1,338,727; May 4; v. 274; p. 15.
Draw-bar buffer. J. C. Barber. No. 1,341,455; May 25; v. 274; p. 735.
Draw-bar coupling. T. G. Higgins. No. 1,341,556; May 25; v. 274; p. 754.
Dress-suit-case body-blanks, Machine for cutting and preparing. H. L. Plummer. No. 1,340,558; May 18; v. 274; p. 491.
Drier: *See*—
Laundry-drier.
Drier. W. B. Hutchinson. No. 1,338,731; May 4; v. 274; p. 15.
Driers, Rotary. A. O. Hurxthal. No. 1,339,260; May 4; v. 274; p. 112.
Drying apparatus. F. and N. Patrono. No. 1,339,131; May 4; v. 274; p. 91.
Drying materials. H. B. Lowden. No. 1,339,771; May 11; v. 274; p. 286.
Drill: *See*—
Multiple drill. Power-drill.
Pneumatic drill. Rock-drill.
Drill-machine. E. J. Lees. No. 1,339,461; May 11; v. 274; p. 226.
Drills, Blower attachment for. R. Borcherdt. No. 1,341,536; May 25; v. 274; p. 750.
Drills, holders-on, and other appliances, Throttle-valve handle for. L. Sykes. No. 1,339,426; May 11; v. 274; p. 219.
Drilling device. W. P. Bovard. No. 1,341,292; May 25; v. 274; p. 702.
Drilling-machine. W. T. Sears. No. 1,339,044; May 4; v. 274; p. 73.
Drilling-machine, Rotary. L. J. Black. No. 1,341,410; May 25; v. 274; p. 726.
Drilling machinery. A. M. Sosa. No. 1,338,752; May 4; v. 274; p. 19.
Drink-mixer. J. V. Buckle. No. 1,340,849; May 18; v. 274; p. 546.
Drinking utensil. N. B. Gallegullos. No. 1,340,886; May 25; v. 274; p. 624.
Drip device. W. H. Grover. No. 1,339,195; May 4; v. 274; p. 101.
Driveways, Slab or brick for. G. V. Kondolf. No. 1,339,356; May 4; v. 274; p. 130.
Driving-band. H. A. S. Read. No. 1,339,287; May 4; v. 274; p. 117.
Driving systems, Automatic controlling apparatus for. H. Pieper. No. 1,340,249; May 18; v. 274; p. 433.
Drum, Multiplex-sheave. J. N. Schiff. No. 1,340,297; May 18; v. 274; p. 442.
Dust-collector. E. R. Hopkins. No. 1,341,129; May 25; v. 274; p. 671.
Dust-separator. H. Hill and J. B. Dyer. No. 1,339,757; May 11; v. 274; p. 283.
Dyestuff and making same. A. Angel. No. 1,340,696; May 18; v. 274; p. 518.
Dynamo-electric machine. J. L. M. Yardley. No. 1,339,910; May 11; v. 274; p. 312.
Earthenware articles, Making. W. S. Williams. No. 1,340,308; May 18; v. 274; p. 444.
Easel. A. F. Johnson. No. 1,341,560; May 25; v. 274; p. 755.
Edge-trimming machine. C. C. Blake. No. 1,339,878; May 11; v. 274; p. 306.
Efficiency-recorder. M. H. Avram. No. 1,339,381; May 11; v. 274; p. 211.
Egg-case. J. B. White. No. 1,339,430; May 11; v. 274; p. 220.
Egg, Sanitary nest-. L. C. Bouma. No. 1,339,543; May 11; v. 274; p. 242.
Egg-washer. M. J. Corcoran. No. 1,340,020; May 11; v. 274; p. 332.
Elbow-bending machine, Crimped-. J. M. Brown. No. 1,340,320; May 18; v. 274; p. 446.
Electric apparatus, Starting means for. T. A. Barrett. No. 1,339,914; May 11; v. 274; p. 313.
Electric-circuit switch. I. Deutsch. No. 1,339,922; May 11; v. 274; p. 314.
Electric circuits, Controlling means for. W. O. Lum. No. 1,339,466; May 11; v. 274; p. 227.
Electric-conductor take-up. A. W. Hill. No. 1,340,268; May 18; v. 274; p. 436.
Electric currents for medical purposes, Apparatus to regulate the strength of. M. Nicoletis. No. 1,338,952; May 4; v. 274; p. 56.
Electric distribution systems, Protection of. P. V. Hunter and J. R. Beard. No. 1,339,394; May 11; v. 274; p. 213.
Electric furnace. T. F. Baily and F. T. Cope. No. 1,340,203; May 18; v. 274; p. 424.
Electric furnace. J. Hughes. No. 1,339,393; May 11; v. 274; p. 213.
Electric-light bracket. J. G. Jones. No. 1,340,273; May 18; v. 274; p. 437.
Electric-light regulator. L. and A. G. Sawyer-Soucy. No. 1,340,795; May 18; v. 274; p. 536.
Electric machine. P. Bossu. No. 1,341,492; May 25; v. 274; p. 742.
Electric machine, Dynamo-. S. R. Bergman. No. 1,340,004; May 11; v. 274; p. 329.
Electric machine, Dynamo-. S. R. Bergman. No. 1,340,005; May 11; v. 274; p. 330.
Electric-motor regulator. G. H. Whittingham. No. 1,340,678; May 18; v. 274; p. 514.
Electric-motor regulator. G. H. Whittingham. No. 1,340,679; May 18; v. 274; p. 515.
Electric recorder. H. H. Welch. No. 1,338,715; May 4; v. 274; p. 12.
Electric switch. M. Guett. No. 1,339,820; May 11; v. 274; p. 295.
Electric switch. D. L. O'Hara. No. 1,340,788; May 18; v. 274; p. 534.
Electric switch. E. H. Piersen. No. 1,339,976; May 11; v. 274; p. 324.
Electric switch. W. D. Throop. No. 1,339,306; May 4; v. 274; p. 121.
Electric switch, Combination. H. A. Jones. No. 1,340,230; May 18; v. 274; p. 429.
Electric switch, Liquid-operated. W. H. Smith. No. 1,340,086; May 11; v. 274; p. 344.
Electric-switch lock. S. D. Livingston. No. 1,339,267; May 4; v. 274; p. 114.
Electrical apparatus. J. B. Wantz. No. 1,340,588; May 18; v. 274; p. 497.
Electrical appliance. W. A. Harvey. No. 1,339,847; May 11; v. 274; p. 300.
Electrical conductor. H. A. Douglas. No. 1,339,694; May 11; v. 274; p. 271.
Electrical connector. J. R. Pattee. No. 1,341,339; May 25; v. 274; p. 712.
Electrical device. P. Mac Gahan. No. 1,339,902; May 11; v. 274; p. 310.
Electrical energy, Method of and means for controlling. E. F. W. Alexanderson. No. 1,340,101; May 11; v. 274; p. 348.
Electrical generation and control, System of. C. F. Kettering. No. 1,338,987; May 4; v. 274; p. 62.
Electrical generation, System of. C. F. Kettering and W. A. Chryst. No. 1,341,327; May 25; v. 274; p. 709.
Electrical oscillator. F. K. Vreeland. No. 1,340,193; May 18; v. 274; p. 423.
Electrical phenomena, System for recording. L. S. Wells. No. 1,340,197; May 18; v. 274; p. 423.
Electrical regulator. A. A. Tirrill. No. 1,339,936; May 11; v. 274; p. 317.
Electrical resistance units, Making. C. Wirt. No. 1,338,717; May 4; v. 274; p. 13.
Electrical switch. L. Airhart. No. 1,339,911; May 11; v. 274; p. 312.
Electroconducting-coil. C. W. Dunham. No. 1,340,027; May 11; v. 274; p. 334.
Electrode-holder. E. Kaaten. No. 1,339,111; May 4; v. 274; p. 87.
Electrodes for soldering and depositing metals by the electric arc, Manufacture of. E. H. Jones. No. 1,339,515; May 11; v. 274; p. 237.
Electrodes, Means for removing deposits from. A. F. Meston. No. 1,339,471; May 11; v. 274; p. 228.
Electrolytic alternating-current chemical rectifier. L. E. Seeley. No. 1,339,907; May 11; v. 274; p. 311.
Electrolytic process. W. E. Greenawalt. No. 1,340,826; May 18; v. 274; p. 542.
Electromagnet apparatus. H. A. Lewis. No. 1,339,900; May 11; v. 274; p. 310.
Electromagnetic device. C. W. Burrows. No. 1,340,698; May 18; v. 274; p. 518.
Electromagnetic device. D. D. Miller. No. 1,339,778; May 11; v. 274; p. 287.
Electromagnetically-controlled brake. B. E. Fernow, Jr. No. 1,338,980; May 4; v. 274; p. 61.
Electromechanical switch. W. J. Burchett. No. 1,339,844; May 11; v. 274; p. 299.
Electromechanical switch. W. J. Burchett. No. 1,339,845; May 11; v. 274; p. 299.
Electropneumatic brake. W. V. Turner. No. 1,339,681; May 11; v. 274; p. 269.
Electrotherapeutic apparatus. W. L. Carlson and E. C. Hanson. No. 1,338,812; May 4; v. 274; p. 30.
Elevator: *See*—
Grain-elevator. Sucker-rod elevator.
Elevator. G. B. Read. No. 1,340,253; May 18; v. 274; p. 433.
Elevator-lock. E. S. Miller. No. 1,340,664; May 18; v. 274; p. 512.
Elevator safety device. L. County. No. 1,341,112; May 25; v. 274; p. 668.
Elevators, Automatic stop for. P. L. Manlet. (Reissue.) No. 14,853; May 4; v. 274; p. 135.
Emblem structure. T. P. Seastrunk. No. 1,340,465; May 18; v. 274; p. 474.

Embroidery-machine, Pantograph. P. Züst and J. Metzger. No. 1,341,160; May 25; v. 274; p. 677.
Emergency-switch. J. A. Booth. No. 1,341,354; May 25; v. 274; p. 715.
Emulsification, Method of and apparatus for. C. E. Norcross. No. 1,338,996; May 4; v. 274; p. 64.
Enamel, Cooling. S. Wiester. No. 1,340,353; May 18; v. 274; p. 452.
End-matcher. W. S. Sherman. No. 1,338,704; May 4; v. 274; p. 11.
Engine: *See*—
Dental engine.
Explosion-engine.
Hydraulic engine.
Hydraulic donkey-engine.
Internal-combustion engine.
Internal-explosive engine.
Rotary engine.
Steam-engine.
Traction-engine.
Turbine gas-engine.
Engine. R. A. Blume and P. F. C. Wilke. No. 1,341,255; May 25; v. 274; p. 695.
Engines, Attachment for internal-combustion. A. Illias. No. 1,341,172; May 25; v. 274; p. 679.
Engines, Electric igniting mechanism for internal-combustion. A. A. Kent. No. 1,341,136; May 25; v. 274; p. 672.
Engine-fan-belt guard. E. B. Brackett. No. 1,340,113; May 11; v. 274; p. 350.
Engine guide, Compound-. F. G. Procunier. No. 1,340,740; May 18; v. 274; p. 526.
Engine of the rotary type. G. T. Williams. No. 1,339,730; May 11; v. 274; p. 278.
Engine-starting and automobile-lighting system. J. B. Entz. No. 1,338,857; May 4; v. 274; p. 38.
Engines, Air-cleaner for internal-combustion. A. R. Lambert. No. 1,340,058; May 11; v. 274; p. 339.
Engines, Air-filter for automatic. J. F. Swarens. No. 1,339,726; May 11; v. 274; p. 277.
Engines, Apparatus for starting internal-combustion. A. I. Odler. No. 1,339,411; May 11; v. 274; p. 216.
Engines, Atomizing-primer for internal-combustion. J. D. P. Lewis. No. 1,338,740; May 4; v. 274; p. 17.
Engines, Auxiliary air-intake for internal-combustion. P. M. Orlopp. No. 1,340,734; May 18; v. 274; p. 524.
Engines, Auxiliary device for gas-. J. D. Langdon. No. 1,338,938; May 4; v. 274; p. 53.
Engines, Balancing. L. F. G. Butler. No. 1,340,823; May 18; v. 274; p. 541.
Engines, Carbon-removing means for internal-combustion. R. C. Berry. No. 1,339,014; May 4; v. 274; p. 67.
Engines, Cold process of repairing radiators of internal-combustion. T. E. Henderson. No. 1,340,655; May 18; v. 274; p. 510.
Engines, Cooling apparatus for internal-combustion. S. I. Fekete. No. 1,338,722; May 4; v. 274; p. 14.
Engines, Cylinder for internal-combustion. M. J. B. Barbarou. No. 1,340,647; May 18; v. 274; p. 509.
Engines, Decarbonizer attachment for. G. McNeel. No. 1,338,993; May 4; v. 274; p. 63.
Engines, External ignition device for internal-combustion. H. Schlaich. No. 1,341,619; May 25; v. 274; p. 766.
Engines for flight-motors, Air-cooling mechanism for internal-combustion. J. W. Smith. No. 1,341,444; May 25; v. 274; p. 732.
Engines, Primer for internal-combustion. H. D. Waterhouse. No. 1,339,080; May 4; v. 274; p. 80.
Engines, Priming attachment for internal-combustion. E. O. Steinbauer. No. 1,340,087; May 11; v. 274; p. 345.
Engines, Reversing mechanism for fluid-. F. A. Jimerson. No. 1,338,732; May 4; v. 274; p. 16.
Engines, Starting mechanism for internal-combustion. M. M. Balsam. No. 1,338,668; May 4; v. 274; p. 4
Engines, Tappet for internal-combustion. G. R. Rich. No. 1,339,421; May 11; v. 274; p. 218.
Engines, Valve mechanism of internal-combustion. H. L. Milner and A. R. Beeby. No. 1,339,406; May 11; v. 274; p. 215.
Engines, Valve timing-gear for explosive-. A. Barnes. No. 1,340,362; May 18; v. 274; p. 454.
Engines, Vaporizer for combustion-. W. H. Hayes. No. 1,340,444; May 18; v. 274; p. 470.
Engines, Vaporizer for internal-combustion. W. Lennon. No. 1,341,141; May 25; v. 274; p. 673.
Envelop. W. Hire. No. 1,339,392; May 11; v. 274; p. 213.
Envelop. E. F. Nissen. No. 1,340,554; May 18; v. 274; p. 491.
Envelops, Machine for attaching strings to. C. F. Pflanze. No. 1,340,909; May 25; v. 274; p. 628.
Etching apparatus. C. R. Hendricks. No. 1,339,457; May 11; v. 274; p. 226.
Etching apparatus. R. R. Page. No. 1,340,975; May 25; v. 274; p. 642.
Ether-wave control, System of. J. H. Hammond, Jr. No. 1,339,927; May 11; v. 274; p. 315.
Ethylene, Compression, storage, &c. of. A. A. Backhaus. No. 1,339,431; May 11; v. 274; p. 220.
Excavating-machine. O. G. Petersen. No. 1,340,247; May 18; v. 274; p. 432.
Excavator, crusher, and vaporizer, Combination. W. A. Huelsdonk. No. 1,340,445; May 18; v. 274; p. 470.
Excavator-dipper. M. E. Pugh. No. 1,339,606; May 11; v. 274; p. 254.
Excavator, Portable. A. A. Briggs. No. 1,339,687; May 11; v. 274; p. 270.
Excelsior-cutting machine. G. W. Berry. No. 1,341,037; May 25; v. 274; p. 653.
Expelling-pin. D. J. Bell. No. 1,339,157; May 4; v. 274; p. 94.
Experiments, Apparatus for conducting. R. W. Bennett. No. 1,338,967; May 4; v. 274; p. 58.
Explosive and preparing same, Gelatinized propellent. F. L. Nathan, W. Rintoul, and F. Baker. No. 1,338,691; May 4; v. 274; p. 8.
Explosive-engine. J. P. Trego, Jr. No. 1,340,580; May 18; v. 274; p. 496.
Extractor: *See*—
Cork-extractor.
Eye-protector. G. H. Day. No. 1,340,701; May 18; v. 274; p. 519.
Eyes, Machine for forming spring-. W. Evans. No. 1,339,443; May 11; v. 274; p. 223.
Eyeglass case and cleaning device. R. A. Goelkel. No. 1,339,330; May 4; v. 274; p. 125.
Eyeglasses and spectacles, Rimmed. S. Goldfaden. No. 1,341,503; May 25; v. 274; p. 744.
Fabric: *See*—
Cloth fabric.
Spring fabric.
Wire fabric.
Fabric and making same, Open-mesh joint in textile and other. L. Bruger. No. 1,340,117; May 11; v. 274; p. 351.
Fabric and yarn and making, Pile. A. G. From. No. 1,339,753; May 11; v. 274; p. 282.
Fabric band, Laminated cohesive interwound. L. A. Subers. No. 1,339,869; May 11; v. 274; p. 304.
Fabric-frame-moving mechanism, Stopping mechanism for. B. Wetzstein. No. 1,339,049; May 4; v. 274; p. 74.
Fabrics, Apparatus for steaming. J. Grasser. No. 1,340,482; May 18; v. 274; p. 477.
Fabrics, Forming tubular cord. J. H. and J. H., Jr., Coffey. No. 1,339,103; May 4; v. 274; p. 85.
Fabrics, Machine for forming tubular. H. D. Tracy. No. 1,340,425; May 18; v. 274; p. 467.
Fan. J. Dauster. No. 1,339,169; May 4; v. 274; p. 96.
Fastener. H. O. Smith. No. 1,341,600; May 25; v. 274; p. 762.
Faucet. A. Landgrebe. No. 1,340,060; May 11; v. 274; p. 340.
Faucet for dispensing high-pressure liquids. C. L. and F. W. Holderle. No. 1,340,769; May 18; v. 274; p. 531.
Faucet-supporting collar. S. Rosenfeld. No. 1,339,982; May 11; v. 274; p. 325.
Faucet-supporting means. M. C. Rosenfeld. No. 1,339,578; May 11; v. 274; p. 249.
Feed-cutters, Sharpener for. C. A. Holm. No. 1,339,511; May 11; v. 274; p. 236.
Feed device, Liquid-. A. L. Ball. No. 1,339,734; May 11; v. 274; p. 279.
Feed-water, Means for heating boiler. B. R. Shinner. No. 1,341,443; May 25; v. 274; p. 732.
Feed-water regulator. W. H. Berry. No. 1,340,365; May 18; v. 274; p. 455.
Feed-water-regulator system. V. V. Veenschoten. No. 1,340,846; May 18; v. 274; p. 545.
Feeder, Poultry-. F. B. Ashley. No. 1,340,869; May 25; v. 274; p. 621.
Feeding and guiding cloth, Appliances for. R. M. Hunter. No. 1,339,826; May 11; v. 274; p. 296.
Feeding device. O. H. Hansen. No. 1,339,060; May 4; v. 274; p. 77.
Feeding device, Animal-. E. S. Johnson. No. 1,339,763; May 11; v. 274; p. 284.
Feeding mechanism. H. L. Barrett. No. 1,339,051; May 4; v. 274; p. 75.
Fence-machine. J. M. Denning. No. 1,340,530; May 18; v. 274; p. 486.
Fence, Portable. W. E. Davis. No. 1,341,264; May 25; v. 274; p. 697.
Fencepost. W. S. Gresham. No. 1,339,819; May 11; v. 274; p. 295.
Fender: *See*—
Ship-fender.
Vehicle-fender.
Fender. S. P. Taylor. No. 1,339,586; May 11; v. 274; p. 250.
Fertilizer and manufacture of same, M. Fjellanger. No. 1,340,708; May 18; v. 274; p. 520.
Fertilizer-distributer. G. W. Browning. No. 1,339,256; May 4; v. 274; p. 112.
Fertilizer-distributer. C. H. Travis. No. 1,340,806; May 18; v. 274; p. 538.
Fertilizer material, Process and product of making. P. M. Shuey. No. 1,341,598; May 25; v. 274; p. 762.
Fiber from yucca, Machine for extracting. H. H. Holdaway. No. 1,339,825; May 11; v. 274; p. 296.
Fibrous stock, Machine for breaking, softening, and scutching. P. E. G. Swynghedauw. No. 1,341,603; May 25; v. 274; p. 763.
Filament, Shaped. D. K. Wright. No. 1,339,998; May 11; v. 274; p. 328.
File-box. H. C. Fosberg. No. 1,340,034; May 11; v. 274; p. 335.
File-box and follower. H. C. Fosberg. No. 1,340,035; May 11; v. 274; p. 335.
File-handle. J. E. Lovell. No. 1,339,658; May 11; v. 274; p. 264.
Filing-case, Metal. F. A. Sandmann. No. 1,340,562; May 18; v. 274; p. 492.
Filling composition. W. A. Bruno. No. 1,341,540; May 25; v. 274; p. 751.

Film-reel, Fireproof. W. Rice. No. 1,339,366; May 4; v. 274; p. 132.
Filter, Rotating-screen. C. L. Peck. No. 1,338,999; May 4; v. 274; p. 64.
Filter, Water-. L. J. Stern. No. 1,339,045; May 4; v. 274; p. 74.
Finger-ring guard. H. Levin. No. 1,341,218; May 25; v. 274; p. 689.
Fire-alarm switch. G. F. Miller. No. 1,340,729; May 18; v. 274; p. 523.
Fire-escape. A. Nikander. No. 1,341,242; May 25; v. 274; p. 693.
Fire-escape, Portable. G. A. Blake. No. 1,340,146; May 18; v. 274; p. 414.
Fire-extinguisher. A. L. Cole. 1,340,376; May 18; v. 274; p. 457.
Fire-extinguishers, Cartridge for chemical. C. Graaff. No. 1,338,828; May 4; v. 274; p. 33.
Fire-extinguishing apparatus. C. C. Jones. No. 1,338,778; May 4; v. 274; p. 24.
Fire-shutter brake. E. H. McCloud. No. 1,339,380; May 4; v. 274; p. 135.
Fires, Apparatus for generating foam for extinguishing. J. B. and O. R. Erwin. No. 1,340,601; May 18; v. 274; p. 500.
Firearm. O. V. Payne. No. 1,338,866; May 4; v. 274; p. 40.
Firearm-sight. C. B. Winder. No. 1,339,248; May 4; v. 274; p. 110.
Firearms, Device for aiming. S. Tousey. No. 1,340,579; May 18; v. 274; p. 495.
Firing device, Automatic. O. Kelly. No. 1,340,274; May 18; v. 274; p. 437.
Firing, Device for oblique. A. T. Fischer. No. 1,341,117; May 25; v. 274; p. 669.
Fireproof doors. E. R. Leonard. No. 1,339,205; May 4; v. 274; p. 103.
Fireproof partition. E. R. Leonard. No. 1,339,360; May 4; v. 274; p. 131.
Fireproof window. J. W. Yates. No. 1,340,312; May 18; v. 274; p. 444.
Fireproof-window-closing means. J. W. Yates. No. 1,340,311; May 18; v. 274; p. 444.
Fish and crab trap. C. W. Mueller. No. 1,339,275; May 4; v. 274; p. 115.
Fish-lure. C. L. Smith. No. 1,338,877; May 4; v. 274; p. 42.
Fish, Means and method of catching. P. Whitehead. No. 1,340,677; May 18; v. 274; p. 514.
Fishhook. T. Coté. No. 1,338,856; May 4; v. 274; p. 38.
Fishhook. K. Leon. No. 1,340,780; May 18; v. 274; p. 533.
Fishing-net. J. D. Goss. No. 1,341,552; May 25; v. 274; p. 753.
Fishing-reel. D. M. Reuzé. No. 1,341,519. May 25; v. 274; p. 747.
Fishing-tackle. H. England. No. 1,339,697; May 11; v. 274; p. 272.
Fishing-tackle. H. R. Frensdorf. No. 1,339,189; May 4; v. 274; p. 100.
Fishing-tackle. E. A. and C. T. Pflueger. No. 1,339,832; May 11; v. 274; p. 297.
Flag-holder, Adjustable. T. W. Saltmarsh and H. F. Gonzalez. No. 1,339,833; May 11; v. 274; p. 297.
Flag, pennant, or banner floating bracket. H. Johnson and A. D. C. Walker. No. 1,339,849; May 11; v. 274; p. 300.
Flaker. W. D. Mount. No. 1,340,732; May 18; v. 274; p. 524.
Flame-projector apparatus. H. Cave and J. L. Anderson. No. 1,340,012; May 11; v. 274; p. 331.
Flame-protector. H. Morris. No. 1,339,215; May 4; v. 274; p. 105.
Flange frog. R. E. Einstein. No. 1,399,597; May 11; v. 274; p. 253.
Flange-frog, Cast-metal. R. E. Einstein. No. 1,339,598; May 11; v. 274; p. 253.
Flexible tube. L. H. Brinkman. No. 1,340,818; May 18; v. 274; p. 540.
Float. W. Sparks. No. 1,340,572; May 18; v. 274; p. 494.
Float mechanism. J. M. Wright. No. 1,341,002; May 25; v. 274; p. 647.
Floating device. G. Jordahn. No. 1,341,272; May 25; v. 274; p. 698.
Floor construction, Reinforced-concrete. W. M. Pratt. No. 1,340,291; May 18; v. 274; p. 440.
Flooring, Apparatus for coating and finishing. E. C. Dittmar. No. 1,339,106; May 4; v. 274; p. 86.
Flooring, Apparatus for coating and finishing. E. C. Dittmar. No. 1,339,107; May 4; v. 274; p. 86.
Flooring, Means for producing imitative-tile. W. F. Walling. No. 1,341,528; May 25; v. 274; p. 748.
Flue-cleaning machine. H. H. Jones. No. 1,339,348; May 4; v. 274; p. 129.
Flue, Safe end. C. S. Coleman. No. 1,339,740. May 11; v. 274; p. 279.
Flue-stopper. M. A. Tracy. No. 1,340,090. May 11; v. 274; p. 345.
Fluid-heater, Electrically-operated. A. Papini. No. 1,338,997; May 4; v. 274; p. 64.
Fluid-pressure-brake device. W. V. Turner. No. 1,339,679; May 11; v. 274; p. 268.
Fly-chaser. A. Brunelle. No. 1,338,810; May 4; v. 274; p. 30.
Fly-guard. E. L. McManus. No. 1,340,069; May 11; v. 274; p. 341.
Fly-killing device. G. M. Hannon. No. 1,340,767; May 18; v. 274; p. 530.
Fly-screen, Roller. F. J. Baukus. No. 1,340,103; May 11; v. 274; p. 348.
Flying-machine. G. R. Henry. No. 1,339,336; May 4; v. 274; p. 126.
Flying-machine, Heavier-than-air. A. E. Royle. No. 1,340,914; May 25; v. 274; p. 629.
Flytrap. C. M. Curry. No. 1,341,416; May 25; v. 274; p. 727.
Flytrap. W. J. Lee. No. 1,340,779; May 18; v. 274; p. 533.
Flytrap, Cattle-. C. E. Merrell and E. E. Hall. No. 1,340,071; May 11; v. 274; p. 342.
Folding box. P. A. Hoffman. No. 1,339,339; May 4; v. 274; p. 127.
Folding chair. D. Evangelist. No. 1,341,050; May 25; v. 274; p. 656.
Folding-machine. W. J. Beattie. No. 1,341,409; May 25; v. 274; p. 725.
Folding table. H. F. Havens, Sr. No. 1,339,389; May 11; v. 274; p. 212.
Folding universal table. A. W. Lee. No. 1,340,065; May 11; v. 274; p. 340.
Food-drying apparatus. D. Lenzi. No. 1,339,032; May 4; v. 274; p. 71.
Food, Machine for molding tablets of compressed. W. H. Day. No. 1,341,226; May 25; v. 274; p. 690.
Footwear, Apparatus for treating. N. M. Hopkins. No. 1,340,544; May 18; v. 274; p. 489.
Footwear, Manufacture of hard toe-blocks for. G. Verhoogen. No. 1,339,529; May 11; v. 274; p. 239.
Forging. W. Klocke. No. 1,338,779; May 4; v. 274; p. 24.
Form, Blank. H. M. Branson. No. 1,339,942; May 11; v. 274; p. 318.
Form, Dress-. F. B. Granger. No. 1,340,950; May 25; v. 274; p. 636.
Form, Record-. G. Wilmot. No. 1,339,995; May 11; v. 274; p. 328.
Fountain, Drinking-. P. W. Blair. No. 1,339,159; May 4; v. 274; p. 94.
Fountain, Portable hog-. C. Siebring. No. 1,340,085; May 11; v. 274; p. 344.
Fountain, Sanitary drinking-. W. F. Curran. No. 1,339,322; May 4; v. 274; p. 124.
Fractionating compound substances containing ingredients of closely-related solubility. A. Seidenberg. No. 1,340,186; May 18; v. 274; p. 421.
Frame: *See*—
Comfort-frame.
Motorcycle spring-frame.
Net-frame.
Printing-frame.
Reamer-frame.
Window-frame.
Franking-machine, Automatic. A. J. Shircliffe. No. 1,340,987; May 25; v. 274; p. 644.
Freight-stacking elevator, Portable. G. F. Nicholson and G. Whitestone. No. 1,340,458; May 18; v. 274; p. 472.
Friction-facing on transmission-belting. R. S. Kinnaird. No. 1,341,470; May 25; v. 274; p. 738.
Frog foot-guard. G. W. Vaughan. No. 1,340,582; May 18; v. 274; p. 496.
Frost-casing. J. R. Fitzpatrick. No. 1,340,332; May 18; v. 274; p. 448.
Fruit cutting and pitting machine. C. Oka. No. 1,339,364; May 4; v. 274; p. 132.
Fruit-juices, Treating. F. L. Dunlap and R. A. Kuever. No. 1,338,684; May 4; v. 274; p. 7.
Fruit pitter and cutter. W. N. Risdon. No. 1,339,367; May 4; v. 274; p. 132.
Fruits, vegetables, &c., Method of and apparatus for drying. G. H. Benjamin. No. 1,339,092; May 4; v. 274; p. 83.
Fuel-burner. N. C. Davison. No. 1,338,679; May 4; v. 274; p. 6.
Fuel-burning apparatus. A. Doble. No. 1,340,383; May 18; v. 274; p. 458.
Fuel, Composite motor-. A. Hayes. No. 1,338,982; May 4; v. 274; p. 61.
Fuel dispenser and spreader. J. Erwin. No. 1,340,028; May 11; v. 274; p. 334.
Fuel, Economization of hydrocarbon-engine. F. Luke. No. 1,339,465; May 11; v. 274; p. 227.
Fuel machine, Artificial-. J. Schaub. No. 1,340,463; May 18; v. 274; p. 473.
Fuel, Manufacturing gaseous. J. R. Rose. No. 1,339,225; May 4; v. 274; p. 107.
Fuel-oil burner. T. F. Krieg. No. 1,339,358; May 4; v. 274; p. 131.
Fuel-supply system. M. Parnes. No. 1,341,515; May 25; v. 274; p. 746.
Fur-cutting machine. M. Zawistowski. No. 1,341,450; May 25; v. 274; p. 734.
Fur-screen. T. Travis. No. 1,339,240; May 4; v. 274; p. 109.
Furnace: *See*—
Annealing and heat-treating furnace.
Electric furnace.
Hot-air furnace.
Liquid-fuel-burning furnace.
Muffle-furnace.
Open-hearth furnace.
Furnace. H. B. Kinnear and A. J. Townsend. No. 1,339,564; May 11; v. 274; p. 246.

Furnace. W. Lloyd. No. 1,340,549; May 18; v. 274; p. 490.
Furnace. W. Lloyd. No. 1,340,725; May 18; v. 274; p. 523.
Furnace. H. W. Nield. No. 1,339,859; May 11; v. 274; p. 302.
Furnace. T. A. Peebles. No. 1,338,694; May 4; v. 274; p. 8.
Furnace and lining therefor. J. P. Copland. No. 1,341,299; May 25; v. 274; p. 704.
Furnace construction. H. A. Schweyer. No. 1,341,594; May 25; v. 274; p. 761.
Furnace, Controlling the thickness of walls in an electric. C. H. Chapman. No. 1,340,155; May 18; v. 274; p. 416.
Furnace for heating rods. M. Mathy. No. 1,339,034; May 4; v. 274; p. 71.
Furnace for the annealing, hardening, quenching, or like heat treatment of metals. A. Smallwood. No. 1,339,434; May 11; v. 274; p. 219.
Furnace, Operating an electric. M. R. Trembour. No. 1,339,428; May 11; v. 274; p. 220.
Furnace, Production of iron in an electric. G. J. Stock. No. 1,338,881; May 4; v. 274; p. 43.
Furnace-regulator, Time-controlled. H. A. Mailloux. No. 1,339,468; May 11; v. 274; p. 228.
Furnace, stove, and the like, Hot-air. C. Hiller. No. 1,340,340; May 18; v. 274; p. 450.
Furnace temperature, Method and apparatus for controlling. G. F. Fuller. No. 1,339,190; May 4; v. 274; p. 100.
Furnaces, Controlling combustion in a plurality of. F. H. Brown. No. 1,338,902; May 4; v. 274; p. 46.
Furnaces, Device for pushing back ores into the interior of mechanical muffle roasting-. R. V. Zelewski and H. Siegel. No. 1,339,252; May 4; v. 274; p. 111.
Furnaces, Flat arch for. O. Wundrack. No. 1,339,615; May 11; v. 274; p. 256.
Furnaces, Regulating combustion-. J. M. Hopwood. No. 1,338,922; May 4; v. 274; p. 50.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,898; May 4; v. 274; p. 46.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,900; May 4; v. 274; p. 46.
Furnaces, Regulating combustion in. F. H. Brown. No. 1,338,901; May 4; v. 274; p. 46.
Furnaces, Slagging-machine for. E. W. Clark and F. C. Clarke. No. 1,340,156; May 18; v. 274; p. 416.
Furniture, Collapsible. A. N. Clough. No. 1,341,225; May 25; v. 274; p. 690.
Furniture, Convertible. V. Tiffin. No. 1,340,467; May 18; vol. 274; p. 474.
Furniture, Foldable. A. Rapp. No. 1,339,669; May 11; v. 274; p. 267.
Furniture, Sliding shoe for. J. A. Johnson. No. 1,341,133; May 25; v. 274; p. 672.
Furniture, Ventilated, upholstered. F. O. White. No. 1,339,611; May 11; v. 274; p. 255.
Fuse, Electric. T. E. Murray. No. 1,339,965; May 11; v. 274; p. 322.
Fuse-plug. R. S. Porter. No. 1,340,080; May 11; v. 274; p. 343.
Fuse, Refillable. E. C. Weisgerber. No. 1,341,401; May 25; v. 274; p. 724.
Gage: *See*—
Bracelet-gage.
Combination-gage.
Cutter-clearance gage.
Dental gage.
Depth-gage.
Micrometer-gage.
Perforating-machine gage.
Pressure-gage.
Thread-gage.
Gage. H. B. Douglass. No. 1,339,384; May 11; v. 274; p. 211.
Gage. O. W. Thompson. No. 1,339,989; May 11; v. 274; p. 327.
Gage, Multiple draft and pressure. F. G. Philo. No. 1,341,582; May 25; v. 274; p. 759.
Gaging tapering bodies. Device for. F. E. Voigt. No. 1,339,639; May 11; v. 274; p. 261.
Galvanic cell. C. A. R. Graamans. No. 1,340,222; May 18; v. 274; p. 428.
Game. M. A. Bartlett. No. 1,340,001; May 11; v. 274; p. 329.
Game. E. C. Cohen. No. 1,341,360; May 25; v. 274; p. 716.
Game. F. W. Hudson. No. 1,340,612; May 18; v. 274; p. 502.
Game, Ball. R. F. Downey. No. 1,339,846; May 11; v. 274; p. 300.
Game-board. L. V. Bennett. No. 1,339,013; May 4; v. 274; p. 67.
Game-board. A. G. E. Lowman. No. 1,341,185; May 25; v. 274; p. 682.
Game-board, Educational. W. D. Kemp. No. 1,339,399; May 11; v. 274; p. 214.
Game board, Marble-. F. A. Hulett. No. 1,339,343; May 4; v. 274; p. 128.
Game device. L. F. Pierson. No. 1,339,285; May 4; v. 274; p. 117.
Garage. E. M. Hamilton and M. Hamburger. No. 1,340,045; May 11; v. 274; p. 337.
Garage. G. H. Young. No. 1,341,097; May 25; v. 274; p. 665.
Garbage-receptacles, False bottom for. C. J. Jacobson. No. 1,341,507; May 25; v. 274; p. 745.
Garment. W. Freedman. No. 1,341,120; May 25; v. 274; p. 669.
Garment. J. Rubin. No. 1,340,915; May 25; v. 274; p. 629.
Garment-hanger. A. J. Lobar. No. 1,338,783; May 4; v. 274; p. 25.
Garment-hanger support. C. L. Seldenberg. No. 1,340,565; May 18; v. 274; p. 493.
Garment, Hospital or sleeping. V. Dean. No. 1,340,381; May 18; v. 274; p. 458.
Garment, Infant's night-. G. R. Hanna. No. 1,341,317; May 25; v. 274; p. 707.
Garment, Outer. R. A. Whall. No. 1,340,351; May 18; v. 274; p. 452.
Garment-supporter. W. F. Ade. No. 1,341,406; May 25; v. 274; p. 725.
Garter. R. W. Merritt. No. 1,340,455; May 18; v. 274; p. 472.
Garter, Lady's. M. de los S. Enriquez. No. 1,338,858; May 4; v. 274; p. 39.
Gas-analysis apparatus. O. Rodhe. No. 1,340,838; May 18; v. 274; p. 544.
Gas and crude-oil burner, Combustion. R. F. Runyan. No. 1,339,580; May 11; v. 274; p. 274; v. 249.
Gas-burner. D. B. Igou. No. 1,340,226; May 18; v. 274; p. 429.
Gas-burner. I. Lundgaard. No. 1,340,902; May 25; v. 274; p. 627.
Gas-burner. E. J. Volk. No. 1,341,089; May 25; v. 274; p. 664.
Gas-burners, Delayed cut-off for Bunsen. R. D. Smith. No. 1,340,843; May 18; v. 274; p. 545.
Gas-burning apparatus. H. V. Deemar. No. 1,341,266; May 25; v. 274; p. 697.
Gas-handling apparatus. C. W. Hinman. No. 1,341,056; May 25; v. 274; p. 657.
Gas heater for automobiles, Exhaust-. F. L. Montross. No. 1,339,122; May 4; v. 274; p. 89.
Gas mixtures containing oxids of nitrogen, Process of and apparatus for treating. C. L. Burdick. No. 1,339,494; May 11; v. 274; p. 232.
Gas-producer. W. B. Chapman. No. 1,341,044; May 25; v. 274; p. 655.
Gas, Producing carbon-hydrogen. T. O'Connell. No. 1,340,495; May 18; v. 274; p. 479.
Gas-saver. G. Eagar. No. 1,339,441; May 11; v. 274; p. 222.
Gas-washing apparatus. J. S. Kennedy. No. 1,339,112; May 4; v. 274; p. 87.
Gases, Separating suspended particles from. W. A. Schmidt. No. 1,339,480; May 11; v. 274; p. 230.
Gasket. G. S. Garren. No. 1,339,599; May 11; v. 274; p. 253.
Gasolene-delivering tank. K. W. Smith. No. 1,338,878; May 4; v. 274; p. 42.
Gasolene, Electric system for storage and measurement of. G. F. Clamer. No. 1,338,814; May 4; v. 274; p. 31.
Gasolene-feed. S. I. Stokes, and J. J. Wyatt. No. 1,341,393; May 25; v. 274; p. 723.
Gasolene manufacture. J. W. Trotter. No. 1,339,727; May 11; v. 274; p. 277.
Gasolene or light vapors, Art of and appliances for cooling and condensing. A. A. Wehr. No. 1,340,427; May 18; v. 274; p. 467.
Gate-fastener. A. Nellis. No. 1,339,781; May 11; v. 274; p. 288.
Gear, Composite. C. H. Calkins. No. 1,338,672; May 4; v. 274; p. 4.
Gear-cutting machine. C. E. Derr. No. 1,339,921; May 11; v. 274; p. 314.
Gear for motors with valve-gear worked by cams and levers, Reversing-. R. Guyot-Sionnest. No. 1,341,368; May 25; v. 274; p. 718.
Gear, Friction draft-. H. Yoerg. No. 1,338,893; May 4; v. 274; p. 45.
Gear-generating machine. E. R. Fellows. No. 1,338,685; May 4; v. 274; p. 7.
Gear, Locomotive driving-. G. R. France. No. 1,340,762; May 18; v. 274; p. 530.
Gear mechanism, Automatic locking device for steering-. A. Borofsky. No. 1,341,256; May 25; v. 274; p. 695.
Gear, Power-operated reversing-. J. H. Alter. No. 1,339,939; May 11; v. 274; p. 317.
Gear, roll, and the like. J. H. Carver. No. 1,340,011; May 11; v. 274; p. 331.
Gear, Steering-. T. A. McGinley and J. C. Kopf. No. 1,341,334; May 25; v. 274; p. 711.
Gear, Steering-. C. A. Ward. No. 1,341,349; May 25; v. 274; p. 714.
Gearing. O. Koller. No. 1,341,237; May 25; v. 274; p. 692.
Gearing, Automatic self-locking differential. K. P. MacDonald. No. 1,341,276; May 25; v. 274; p. 699.
Gearing, Change-speed. W. C. Bucknam. No. 1,338,974; May 4; v. 274; p. 59.
Gearing, Change-speed. H. P. Saunderson. No. 1,339,477; May 11; v. 274; p. 230.
Gearing, Differential. E. L. Snyder. No. 1,341,286; May 25; v. 274; p. 701.
Gearing, Transmission-. R. E. Jackson and B. O. Yearwood. No. 1,340,486; May 18; v. 274; p. 478.
Gearing, Transmission-. J. Spadafora. No. 1,341,392; May 25; v. 274; p. 722.

Gearing, Transmission and controlling. E. T. Silvius. No. 1,341,442; May 25; v. 274; p. 732.
Gearing, Worm-. A. A. Firestone. No. 1,341,309; May 25; v. 274; p. 706.
Generator and timer-distributer bearing-head, Combined. A. D. T. Libby. No. 1,338,990; May 4; v. 274; p. 63.
Generators, Controlling combustion in a plurality of. F. H. Brown. No. 1,338,897; May 4; v. 274; p. 46.
Generators, Controlling combustion in a plurality of. F. H. Brown. No. 1,339,055; May 4; v. 274; p. 76.
Glass: *See*—
Headlight-glass.
Glass drawing and cutting mechanism. I. W. Colburn. No. 1,341,262; May 25; v. 274; p. 697.
Glass-rolling apparatus. C. Dawson. No. 1,341,547; May 25; v. 274; p. 752.
Glass sheets, Drawing. H. G. Slingluff. No. 1,339,229; May 4; v. 274; p. 107.
Glass, Water-. E. H. Hulett. No. 1,339,561; May 11; v. 274; p. 245.
Glass-working machine. A. L. Bingham. No. 1,340,366; May 18; v. 274; p. 455.
Glassware, Method of and apparatus for manufacturing. E. P. Lindahl. No. 1,338,941; May 4; v. 274; p. 54.
Glove. A. M. Oathout. No. 1,339,129; May 4; v. 274; p. 90.
Glove and making same. G. P. Bosworth. No. 1,339,592; May 11; v. 274; p. 251.
Gloves, Rubber. J. B. Abler. No. 1,341,451; May 25; v. 274; p. 734.
Gluing-machine. G. McConnell. No. 1,339,467; May 11; v. 274; p. 228.
Goggles. F. Willson. No. 1,339,731; May 11; v. 274; p. 278.
Gold-saving receptacle. I. A. Burnett. No. 1,340,213; May 18; v. 274; p. 426.
Golf-ball marker. J. D. Lyon. No. 1,339,569; May 11; v. 274; p. 247.
Golf game. C. A. Rolfe. No. 1,338,963; May 4; v. 274; p. 58.
Golf-hole renovator. R. L. Whitman. No. 1,340,927; May 25; v. 274; p. 632.
Governor, Magneto-. T. J. Kresky. No. 1,339,655; May 11; v. 274; p. 264.
Governor, Tractor-. W. and M. Tuma. No. 1,340,993; May 25; v. 274; p. 645.
Grab, lifting-dogs, and like lifting apparatus. W. J. Hollick. No. 1,339,341; May 4; v. 274; p. 127.
Grader, Road-. R. C. Cox. No. 1,339,548; May 11; v. 274; p. 243.
Grader, Road-. C. Speth. No. 1,339,866; May 11; v. 274; p. 304.
Grading-machine. J. R. Pile. No. 1,340,497; May 18; v. 274; p. 480.
Grading or separating machine. S. Marshall. No. 1,341,571; May 25; v. 274; p. 757.
Grain-elevator. D. Groenewold. No. 1,340,606; May 18; v. 274; p. 501.
Grain-heading machines, Pusher for. E. H. Springer. No. 1,338,707; May 4; v. 274; p. 11.
Grain-separator feeder. E. M. Liebers. No. 1,339,206; May 4; v. 274; p. 103.
Grain-shocker, Automatic. A. P. Lofstrand. No. 1,340,781; May 18; v. 274; p. 533.
Grain-storage bin. L. H. Dickelman. No. 1,339,437; May 11; v. 274; p. 221.
Graphite article and making same. S. C. Linbarger. No. 1,339,266; May 4; v. 274; p. 114.
Grapples or tongs, Logging. A. J. Zipp. No. 1,340,313; May 18; v. 274; p. 445.
Grease-cup plug. J. G. Blunt. No. 1,341,411; May 25; v. 274; p. 726.
Grease-cups, Lid for. J. H. Miller. No. 1,341,190; May 25; v. 274; p. 683.
Grease from organic matter, Apparatus for extracting. K. A. Stahlgren and T. L. Shannon. No. 1,341,523; May 25; v. 274; p. 747.
Grease-gun attachment. J. W. Thompson. No. 1,339,237; May 4; v. 274; p. 109.
Grenade, Hand-. A. G. Bergman. No. 1,339,735; May 11; v. 274; p. 279.
Grinder, Rail-. E. P. Tabor. No. 1,340,991; May 25; v. 274; p. 645.
Grinder, Thread-. D. Fitzpatrick. No. 1,304,031; May 11; v. 274; p. 334.
Grinding apparatus, Cam-. H. W. Dunbar, A. Turner, and G. H. Smith. No. 1,339,746; May 11; v. 274; p. 281.
Grinding device, Portable. F. G. Peck. No. 1,340,120; May 11; v. 274; p. 352.
Grinding-machine, Cylindrical. B. M. W. Hanson. No. 1,339,027; May 4; v. 274; p. 70.
Grinding machine, Worm-. D. Fitzpatrick. No. 1,340,030; May 11; v. 274; p. 334.
Grinding-machines, Cross-feed mechanism for. C. H. Norton, A. Turner, and J. S. Wilcox, Jr. No. 1,339,860; May 11; v. 274; p. 302.
Grinding, polishing, and buffing machine. H. F. Albright. No. 1,339,312; May 4; v. 274; p. 122.
Grinding, polishing, and buffing machine equipment. F. S. Kochendorfer. No. 1,339,202; May 4; v. 274; p. 102.
Grinding-wheels, Dressing-tool for. E. T. Gorham. No. 1,339,452; May 11; v. 274; p. 225.
Gripper-actuating mechanism. W. M. Kelly. No. 1,339,654; May 11; v. 274; p. 264.
Gun. J. Pacifico. No. 1,340,791; May 18; v. 274; p. 535.
Gun, Anti-aircraft. F. Bonali. No. 1,340,111; May 11; v. 274; p. 350.
Gun-barrels, Apparatus for forming. W. F. Cole. No. 1,339,023; May 4; v. 274; p. 69.
Gun cartridge-belts, Machine for loading machine-. R. Krenz. No. 1,339,204; May 4; v. 274; p. 103.
Gun for discharging projectiles by gases supplied thereto under pressure. T. and J. E. Thornycroft. No. 1,340,689; May 18; v. 274; p. 517.
Gun, Grease-. H. M. Boe. No. 1,339,916; May 11; v. 274; p. 313.
Gun, Grease-. J. G. MacGregor. No. 1,340,726; May 18; v. 274; p. 523.
Gun, Grease-. S. L. O'Brien. No. 1,341,148; May 25; v. 274; p. 675.
Gun, Machine-. G. Hazelton. No. 1,339,390; May 11; v. 274; p. 212.
Gun, Self-filling grease-. K. E. Lyman. No. 1,338,743; May 4; v. 274; p. 18.
Gun-sight. F. A. Williams. No. 1,340,996; May 25; v. 274; p. 646.
Gun-supporting platform. E. Schneider. No. 1,340,415; May 18; v. 274; p. 465.
Guns, Flash-absorber for machine-. E. P. Woken. No. 1,339,614; May 11; v. 274; p. 256.
Guns, Mount or stand for machine-. G. Norman. No. 1,339,410; May 11; v. 274; p. 216.
Guns mounted on wheeled gun-carriages, Apparatus for training. E. Schneider. No. 1,341,385; May 25; v. 274; p. 721.
Guns mounted on wheeled gun-carriages, Apparatus for training. E. Schneider. No. 1,341,386; May 25; v. 274; p. 721.
Guns, Trigger for double-barrel. D. W. Strickland. No. 1,339,867; May 11; v. 274; p. 304.
Hair-curler. C. L. Fitch. No. 1,338,687; May 4; v. 274; p. 7.
Hair-curler. H. Radzinsky. No. 1,338,748; May 4; v. 274; p. 19.
Hair, Process of and appliances for curling. A. Pausser. No. 1,340,738; May 18; v. 274; p. 525.
Half-soles, Pattern for cutting. W. W. Gilbert. No. 1,339,702; May 11; v. 274; p. 273.
Half-spray sprinkler. V. A. H. Kahler. No. 1,339,349; May 4; v. 274; p. 129.
Halter. P. W. Jensen. No. 1,340,271; May 18; v. 274; p. 437.
Hame and trace connector. C. A. Mikkin. No. 1,339,777; May 11; v. 274; p. 287.
Hammer, Motor-operated rotary. R. E. Covert. No. 1,341,545; May 25; v. 274; p. 752.
Hammer, Pneumatic riveting-. J. H. Way. No. 1,340,196; May 18; v. 274; p. 423.
Hammer, Rotary. H. M. Plaisted. (Reissue.) No. 14,865; May 25; v. 274; p. 768.
Hammers, Staybolt-heading attachment for pneumatic-. E. O. Grimes, Jr., and F. Baltzley. No. 1,339,453; May 11; v. 274; p. 225.
Hammock or bed construction. A. B. Claflin. No. 1,340,015; May 11; v. 274; p. 331.
Hand-hole cover. W. W. Holland and F. J. Gainer. No. 1,339,340; May 4; v. 274; p. 127.
Handbag, valise, &c. L. Abramson. No. 1,341,099; May 25; v. 274; p. 666.
Handle: *See*—
File-handle.
Switch-handle.
Tool-handle.
Vacuum-cleaner handle.
Handle for various articles. M. E. Bishop. No. 1,338,968; May 4; v. 274; p. 58.
Handling apparatus. M. F. Bayer. No 1,340,648; May 18; v. 274; p. 509.
Hanger: *See*—
Bottle-hanger.
Bowl-hanger.
Bucket-hanger.
Door-hanger.
Garment-hanger.
Hanger and frame-protector, Combination. J. Greenwald. No. 1,340,711; May 18; v. 274; p. 520.
Harp, Trolley-. J. Miller. No. 1,340,456; May 18; v. 274; p. 472.
Harrow. J. D. Brown. No. 1,341,538; May 25; v. 274; p. 750.
Harrow. J. D. Brown. No. 1,341,539; May 25; v. 274; p. 751.
Harrow. V. Foch. No. 1,341,365; May 25; v. 274; p. 717.
Harrow, Rotary. J. Porteous. No. 1,339,605; May 11; v. 274; p. 254.
Harvested products, Means for transporting. E. de Boyrie. No. 1,341,042; May 25; v. 274; p. 654.
Harvester. C. J. Gardner. No. 1,339,924; May 11; v. 274; p. 314.
Harvester attachment. J. Schwartzkopf. No. 1,339,627; May 11; v. 274; p. 258.
Harvester, Egyptian corn, Milo maize, &c. R. A. Botts. No. 1,340,816; May 18; v. 274; p. 540.
Harvester, Fruit-. H. N. Hickok. No. 1,339,338; May 4; v. 274; p. 127.
Harvesters, Coupling and operating device for tractor-. J. V. Ober. No. 1,339,278; May 4; v. 274; p. 116.
Hat-fastener. F. J. Cancianich. No. 1,341,356; May 25; v. 274; p. 715.

Hat-making machine. J. J. Tracy. No. 1,339,305; May 4; v. 274; p. 120.
Hat-ventilation means. W. H. Bauert. No. 1,339,154; May 4; v. 274; p. 94.
Hatchet. J. W. Olney. No. 1,340,401; May 18; v. 274; p. 462.
Hay-cocking machine. J. A. France. No. 1,340,763; May 18; v. 274; p. 530.
Hay-press. A. Fiset. No. 1,340,388; May 18; v. 274; p. 459.
Hay-sweep attachment. L. Hoesing. No. 1,340,391; May 18; v. 274; p. 460.
Head-covering. E. A. Plummer. No. 1,339,286; May 4; v. 274; p. 117.
Headlight. E. H. Hobble. No. 1,341,128; May 25; v. 274; p. 671.
Headlight control. S. E. Jacoby and C. J. Edmonds. No. 1,340,771; May 18; v. 274; p. 531.
Headlight, Dirigible. W. W. Kennard. No. 1,339,352; May 4; v. 274; p. 129.
Headlight, Dirigible. H. Nelson and J. Wedwick. No. 1,338,787; May 4; v. 274; p. 26.
Headlight-glass. A. L. Morrison. No. 1,339,604; May 11; v. 274; p. 254.
Headlight, Vehicle-. W. Churchill. No. 1,338,675; May 4; v. 274; p. 5.
Heat-exchanger. H. D. Hildebrand. No. 1,340,266; May 18; v. 274; p. 436.
Heat, Exchanging. H. D. Hildebrand. No. 1,340,267; May 18; v. 274; p. 436.
Heat-interchange devices, Ribbed body for. H. Guyer. No. 1,339,385; May 11; v. 274; p. 211.
Heater: *See*—
Automobile-heater.
Fluid-heater.
Manifold-heater.
Popcorn-heater.
Silo-heater.
Washing-machine heater.
Water-heater.
Heater. A. A. Cardwell. No. 1,340,153; May 18; v. 274; p. 416.
Heater. E. B. Cleworth. No. 1,338,855; May 4; v. 274; p. 38.
Heater. E. J. Pelton. No. 1,341,580; May 25; v. 274; p. 758.
Heater and maintenance-wagon, Combination. H. P. Andresen. No. 1,340,131; May 11; v. 274; p. 354.
Heaters, Automatic electric switch or circuit-controlling mechanism for electric fluid-. A. Papini. No. 1,340,668; May 18; v. 274; p. 513.
Heaters, Thermostat-controller for hot-water gas-. E. M. Youngman. No. 1,340,513; May 18; v. 274; p. 483.
Heating and liquefying apparatus. H. Davison and W. R. Townsend. No. 1,341,046; May 25; v. 274; p. 655.
Heating apparatus. J. Ryckman. No. 1,338,965; May 4; v. 274; p. 58.
Heating system. E. P. Rich. No. 1,338,961; May 4; v. 274; p. 57.
Heating system, Auxiliary. A. S. Meadoff. No. 1,341,144; May 25; v. 274; p. 674.
Heddle. H. Ruegg, Jr. No. 1,341,244; May 25; v. 274; p. 693.
Heddle. H. Ruegg, Jr. No. 1,341,245; May 25; v. 274; p. 694.
Heddle-harness-spacer machine. F. E. Bearden. No. 1,339,313; May 4; v. 274; p. 122.
Heel. A. H. Sommers. No. 1,340,571; May 18; v. 274; p. 494.
Heel. A. Twarogowski. No. 1,341,088; May 25; v. 274; p. 663.
Heel, Attachable. G. Schade. No. 1,341,387; May 25; v. 274; p. 721.
Heel for shoes, Cushion-. P. A. De Luca. No. 1,338,817; May 4; v. 274; p. 31.
Heel, Rubber. G. F. Quinn. No. 1,341,383; May 25; v. 274; p. 720.
Heel, Shoe-. P. Diuk. No. 1,339,438; May 11; v. 274; p. 222.
Heel, Shoe-. A. Schaefer. No. 1,341,521; May 25; v. 274; p. 747.
Heel, Wooden French shoe-. J. L. Preo and I. Henne. No. 1,340,910; May 25; v. 274; p. 628.
Heel, Wooden French shoe-. J. L. Preo and I. Henne. No. 1,340,911; May 25; v. 274; p. 629.
Hide-stretcher. A. Berg. No. 1,339,093; May 4; v. 274; p. 83.
Hide-working machine. A. A. Hutchinson. No. 1,339,201; May 4; v. 274; p. 102.
Hinge. E. D. Bump. No. 1,340,151; May 18; v. 274; p. 415.
Hinge. F. Kostlan. No. 1,341,374; May 25; v. 274; p. 719.
Hinge. U. G. McQueen. No. 1,341,063; May 25; v. 274; p. 659.
Hinge. E. E. Witter. No. 1,340,866; May 18; v. 274; p. 549.
Hinge and door fastening, Security sheath. F. Wright. No. 1,340,430; May 18; v. 274; p. 468.
Hinge, Cold-storage-door adjustable. A. N. Hornung. No. 1,340,862; May 18; v. 274; p. 548.
Hockey-stick. N. T. Fogg. No. 1,338,860; May 4; v. 274; p. 39.
Hoe, extension-marker, and weeder, Combination. J. R. Randall. No. 1,339,222; May 4; v. 274; p. 106.
Hog-feeder. J. H. Winters. No. 1,340,096; May 11; v. 274; p. 346.
Hogshead or barrel, Collapsible. C. W. Floyd. No. 1,339,749; May 11; v. 274; p. 281.
Hoist control. A. J. Nicht, Jr. No. 1,340,240; May 18; v. 274; p. 431.
Hoisting apparatus and controlling means therefor. C. Zetterlund. No. 1,339,253; May 4; v. 274; p. 111.
Hoisting apparatus, Selector for automatic. M. B. McLauthlin and A. K. Tylee. No. 1,341,143; May 25; v. 274; p. 674.
Hoisting-hook. N. C. Ingalls. No. 1,341,427; May 25; v. 274; p. 729.
Hoisting machinery, Automatic control mechanism for. D. G. Stafford. No. 1,340,301; May 18; v. 274; p. 442.
Holder-on. A. Hunter. No. 1,341,370; May 25; v. 274; p. 718.
Hone-holder. J. A. Colbert. No. 1,340,751; May 18; v. 274; p. 528.
Hoof-protector. W. J. Kent. No. 1,338,986; May 4; v. 274; p. 62.
Hook: *See*—
Clothes-hook.
Hoisting-hook.
Tire-chain snap-hook.
Hook. C. D. Schmidt. No. 1,339,004; May 4; v. 274; p. 65.
Hook and eye. E. N. Gaillard. No. 1,340,334; May 18; v. 274; p. 449.
Hook-and-eye fastener. S. W. Yeats. No. 1,340,858; May 18; v. 274; p. 547.
Hook for use with chains. C. D. Schmidt. No. 1,339,986; May 11; v. 274; p. 326.
Horn. L. G. Hartdorn. No. 1,339,559; May 11; v. 274; p. 245.
Horse-collar sweat-pad. A. Janicki. No. 1,338,931; May 4; v. 274; p. 52.
Horse, Rocking-. J. W. Bellairs. No. 1,339,493; May 11; v. 274; p. 232.
Horseshoe. J. Grabowski. No. 1,340,764; May 18; v. 274; p. 530.
Hose-clamp. I. Cooper. No. 1,340,937; May 25; v. 274; p. 634.
Hose-clamp and making same. I. Cooper. No. 1,340,938; May 25; v. 274; p. 634.
Hose-coupling. A. A. Hart. No. 1,339,620; May 11; v. 274; p. 257.
Hose-coupling. M. C. Sharpnack. No. 1,399,141; May 4; v. 274; p. 92.
Hose coupling, Air-. C. M. Brown. No. 1,340,820; May 18; v. 274; p. 540.
Hose-reel. G. L. Perrine. No. 1,339,785; May 11; v. 274; p. 288.
Hose-supporter. L. John. No. 1,338,733; May 4; v. 274; p. 16.
Hose-supporter. W. F. Watson. No. 1,340,745; May 18; v. 274; p. 527.
Hot-air furnace. W. J. Doyle and J. J. Wollenhaupt. No. 1,340,134; May 11; v. 274; p. 355.
Hot-water or ice bag. W. Moehle. No. 1,340,236; May 18; v. 274; p. 431.
House: *See*—
Toy house.
Huller: *See*—
Pea-huller.
Humidifying device. W. M. Fulton. No. 1,338,916; May 4; v. 274; p. 49.
Humidity-controlling means, Relative-. C. A. Cutler. No. 1,340,939; May 25; v. 274; p. 634.
Hydrant, Water-. W. F. Whitmore. No. 1,340,352; May 18; v. 274; p. 452.
Hydraulic donkey-engine. F. E. Kenney. No. 1,340,547; May 18; v. 274; p. 489.
Hydraulic engine. F. Lamplough. No. 1,341,328; May 25; v. 274; p. 709.
Hydraulic mixing device. V. O. Sauer and F. C. Wegener. No. 1,341,283; May 25; v. 274; p. 701.
Hydraulic pressure to the interior of a tube being shaped by the self-hooping process, Apparatus for the application of. E. Schneider. No. 1,338,871; May 4; v. 274; p. 41.
Hydrocarbon-burner. M. G. Childers. No. 1,338,853; May 4; v. 274; p. 37.
Hydrocarbon-burner. A. J. and W. C. Lindemann. No. 1,339,207; May 4; v. 274; p. 103.
Hydrocarbon-burner. K. A. Stahlgren. No. 1,341,524; May 25; v. 274; p. 748.
Hydrocarbon-burner of the injection type, Liquid. A. A. Mohn. No. 1,339,709; May 11; v. 274; p. 274.
Hydrocarbon-motor. H. D. Church. No. 1,339,496; May 11; v. 274; p. 233.
Hydrocarbon-motor. H. D. Church. No. 1,339,497; May 11; v. 274; p. 233.
Hydrocarbon-motor. R. Huff. No. 1,339,512; May 11; v. 274; p. 236.
Hydrocarbon-motor. J. G. Vincent. No. 1,339,530; May 11; v. 274; p. 239.
Hydrocarbons, Treating petroleum. T. T. Gray. No. 1,340,889; May 25; v. 274; p. 625.
Hydrometer, Recording-. D. S. Holt. No. 1,341,014; May 25; v. 274; p. 649.
Hydropneumatic device. R. Liebau. No. 1,340,233; May 18; v. 274; p. 430.
Ice-cans, Water-controlling mechanism for. T. Birkenmaier. No. 1,340,814; May 18; v. 274; p. 539.
Ice-cream-cone carrier. F. E. McIntosh. No. 1,338,744; May 4; v. 274; p. 18.

Ice-cream-cone dispenser. H. G. Wilson. No. 1,341,606; May 25; v. 274; p. 763.
Ice-cream-cone holder, Sanitary. S. A. Kornsweet. No. 1,338,833; May 4; v. 274; p. 34.
Ice-cream cones, Machine for baking. P. H. F. Spies. No. 1,341,084; May 25; v. 274; p. 663.
Ice-creeper. C. W. Churchill. No. 1,340,877; May 23; v. 274; p. 622.
Ice-vending machine. G. L. Bennett. No. 1,339,053; May 4; v. 274; p. 75.
Ignition device. L. Ranney, J. W. Dissette, and F. E. Tyrrell. No. 1,341,362; May 25; v. 274; p. 716.
Ignition, Magneto for irregular. L. W. Rosenthal. No. 1,341,282; May 25; v. 274; p. 700.
Implement, Compound. F. Meyers. No. 1,339,405; May 11; v. 274; p. 215.
Implement-holder. F. W. Hawkes. No. 1,340,224; May 18; v. 274; p. 428.
Impregnating apparatus. W. V. Lander. No. 1,339,400; May 11; v. 274; p. 214.
Impulse starting mechanism and operating same. M. Tost. No. 1,338,758; May 4; v. 274; p. 20.
Index. J. H. Rand. No. 1,340,251; May 18; v. 274; p. 433.
Index. J. F. Ryan. No. 1,340,410; May 18; v. 274; p. 463.
Index, Card-. S. Anthony. No. 1,340,140; May 18; v. 274; p. 413.
Index, Card-. J. H. Rand. No. 1,338,789; May 4; v. 274; p. 26.
Index system, Card-. J. W. Downing. No. 1,340,384; May 18; v. 274; p. 458.
Indicating device. F. P. Blair, C. L. Dows, and G. S. Merrill. No. 1,340,145; May 18; v. 274; p. 414.
Indicator: *See*—
Aeroplane height-indicator.
Direction-indicator.
Piano note-indicator.
Pressure-indicator.
Vehicle-indicator.
Indicators, Operating means for direction-. C. H. Shipman. No. 1,339,071; May 4; v. 274; p. 79.
Ingot-pouring mechanism. S. B. Sheldon. No. 1,340,422; May 18; v. 274; p. 466.
Inhaler. F. Lobl. No. 1,340,662; May 18; v. 274; p. 511.
Injector or ejector. E. O. Cartwright. No. 1,341,010; May 24; v. 274; p. 648.
Inner tube. J. M. and J. A. Dirienzo. No. 1,339,948; May 11; v. 274; p. 319.
Insole. G. L. Preble. No. 1,340,404; May 18; v. 274; p. 462.
Insole and making same. J. W. Blakeney. No. 1,339,160; May 4; v. 274; p. 95.
Insole and making same. F. N. La Chapelle. No. 1,341,059; May 25; v. 274; p. 658.
Insole-rounding machine. C. C. Blake. No. 1,340,520; May 18; v. 274; p. 484.
Instrument-mounting. E. H. Bristol. No. 1,338,766; May 4; v. 274; p. 22.
Insulators, Manufacturing. P. J. H. Bernard. No. 1,340,812; May 18; v. 274; p. 539.
Insulators, Manufacturing. P. J. H. Bernard. No. 1,340,813; May 18; v. 274; p. 539.
Internal-combustion engine. J. E. Diamond. No. 1,341,227; May 25; v. 274; p. 690.
Internal-combustion engine. L. H. Dyer. No. 1,339,176; May 4; v. 274; p. 97.
Internal-combustion engine. A. Y. Edwards. No. 1,338,721; May 4; v. 274; p. 14.
Internal-combustion engine. E. A. Field, Jr. No. 1,339,447; May 11; v. 274; p. 224.
Internal-combustion engine. C. V. Fite and C. C. Coddington. No. 1,339,187; May 4; v. 274; p. 99.
Internal-combustion engine. G. H. Gruss. No. 1,341,367; May 25; v. 274; p. 718.
Internal-combustion engine. P. T. Houston. No. 1,339,760; May 11; v. 274; p. 283.
Internal-combustion engine. C. F. Jeffries. No. 1,340,229; May 18; v. 274; p. 429.
Internal-combustion engine. E. H. Kimball. No. 1,339,517; May 11; v. 274; p. 237.
Internal-combustion engine. G. S. Maxwell. No. 1,339,035; May 4; v. 274; p. 71.
Internal-combustion engine. P. Ostenberg. No. 1,341,152; May 25; v. 274; p. 676.
Internal-combustion engine. W. O. Platt and J. Reid. No. 1,341,478; May 25; v. 274; p. 739.
Internal-combustion engine. A. J. Rowledge. No. 1,339,423; May 11; v. 274; p. 219.
Internal-combustion engine. J. S. Taylor. No. 1,339,870; May 11; v. 274; p. 304.
Internal-combustion engine, Combination reciprocal and turbine. F. E. Covey. No. 1,340,527; May 18; v. 274; p. 485.
Internal-combustion motor. H. M. Holze. No. 1,340,223; May 18; v. 274; p. 428.
Internal-explosive engine. R. R. Dietrich. No. 1,340,651; May 18; v. 274; p. 509.
Ionized-chamber device. C. D. Babcock. No. 1,341,006; May 25; v. 274; p. 648.
Iron and steel, Manufacture of. H. Lang. No. 1,340,548; May 18; v. 274; p. 489.
Iron composition. G. G. Marx. No. 1,339,469; May 11; v. 274; p. 228.
Iron or steel or alloys thereof, Means to be employed in the electric welding of. A. C. Hyde. No. 1,341,558; May 25; v. 274; p. 755.
Ironing-board, Folding. R. Fox. No. 1,340,265; May 18; v. 274; p. 436.
Ironing-board, Folding portable. L. L. Locke. No. 1,339,831; May 11; v. 274; p. 297.
Ironing-machine. C. E. Capman. No. 1,340,522; May 18; v. 274; p. 484.
Ironing-machines, Controlling mechanism for electric motors for. I. Bond. No. 1,339,917; May 11; v. 274; p. 313.
Irrigator shut-off. E. Heap. No. 1,340,828; May 18; v. 274; p. 542.
Jack: *See*—
Automatic jack.
Automobile-jack.
Lifting-jack.
Ratchet-jack.
Vehicle-jack.
Jack. J. H. Dorman. No. 1,338,682; May 4; v. 274; p. 6.
Jack. S. Santino. No. 1,339,582; May 11; v. 274; p. 249.
Jack. S. Santino. No. 1,339,583; May 11; v. 274; p. 249.
Jack. J. F. Willey. No. 1,339,613; May 11; v. 274; p. 256.
Jacquard mechanism. H. Janssen. No. 1,339,957; May 11; v. 274; p. 321.
Jar-closure. H. D. Quarrier. No. 1,341,382; May 25; v. 274; p. 720.
Jar-lifter. R. W. Genung. No. 1,341,502; May 25; v. 274; p. 744.
Jar-seal tester. E. B. Birkenbeuel. No. 1,340,473; May 18; v. 274; p. 475.
Joint: *See*—
Rail-joint.
Universal joint.
Welded joint.
Windshield-joint.
Joint-assembling machine. L. L. Randall and E. A. Fries. No. 1,338,697; May 4; v. 274; p. 9.
Joint strip, Preformed expansion-. F. C. Bowman. No. 1,339,094; May 4; v. 274; p. 85.
Joints, Means for packing. W. R. Beldam. No. 1,339,156; May 4; v. 274; p. 94.
Journal-box, Adjustable. S. A. Ayres. No. 1,340,102; May 11; v. 274; p. 348.
Key and container. H. R. Holbrook. No. 1,340,850; May 18; v. 274; p. 546.
Key-ring. F. Fischer. No. 1,341,228; May 25; v. 274; p. 690.
Key-ring attachment. H. Smith. No. 1,339,631; May 11; v. 274; p. 259.
Keyhole-guard. J. E. Powers. No. 1,341,439; May 25; v. 274; p. 731.
Kiln. F. Fidler and J. G. Maxwell. No. 1,341,550; May 25; v. 274; p. 753.
Kiln. K. Himrod. No. 1,339,705; May 11; v. 274; p. 273.
Kiln. J. W. Silva. No. 1,340,633; May 18; v. 274; p. 506.
Knife and fork, Combination. E. G. Parker and R. Stroppel. No. 1,341,153; May 25; v. 274; p. 676.
Knife-setting appliance. N. A. Lockwood. No. 1,339,210; May 4; v. 274; p. 104.
Knitted webs, Apparatus for treating. F. S. Wilcox. No. 1,340,809; May 18; v. 274; p. 538.
Knitting-machine. E. U. Ames. No. 1,340,695; May 18; v. 274; p. 518.
Knitting-machine. E. Lippitt. No. 1,339,708; May 11; v. 274; p. 274.
Knitting-machines, Anti-thread-ballooning device for. A. M. Pigeon. No. 1,340,681; May 18; v. 274; p. 515.
Knitting-machines, Drop-stitch mechanism for. F. W. Robinson. No. 1,339,715; May 11; v. 274; p. 275.
Knitting-machines, Yarn-changer mechanism for. F. E. Jones. No. 1,341,324; May 25; v. 274; p. 709.
Knockdown box. A. G. Petit. No. 1,340,248; May 18; v. 274; p. 433.
Label. S. F. Stein. No. 1,339,007; May 4; v. 274; p. 66.
Label-wiping mechanism. J. E. Johnson and C. H. Osslund. No. 1,339,764; May 11; v. 274; p. 284.
Labeling-machine. C. M. C. Schou. No. 1,338,793; May 4; v. 274; p. 27.
Laces, Tool for applying tips to. T. P. Mulder. No. 1,339,217; May 4; v. 274; p. 105.
Ladder. L. Powell. No. 1,340,627; May 18; v. 274; p. 505.
Ladder, Sectional tube-. J. A. Thollander. No. 1,340,688; May 18; v. 274; p. 516.
Lamp. C. E. Godley. No. 1,340,163; May 18; v. 274; p. 417.
Lamp. R. A. Oldfield. No. 1,338,954; May 4; v. 274; p. 56.
Lamp-adjuster. K. Watanabe. No. 1,340,195; May 18; v. 274; p. 423.
Lamp-base. W. I. Kemble. No. 1,339,351; May 4; v. 274; p. 129.
Lamp bases, Manufacturing and adjustment of contact-plates in Swan-. H. C. Ghijsen. No. 1,340,041; May 11; v. 274; p. 336.
Lamp, Battery hand-. T. J. Madigan. No. 1,340,550; May 18; v. 274; p. 490.
Lamp-bulb extension-base. P. P. Hein. No. 1,339,333; May 4; v. 274; p. 126.
Lamp construction. L. Schepmoes. No. 1,339,985; May 11; v. 274; p. 326.
Lamp, Electric incandescent. F. W. Peterson. No. 1,341,581; May 25; v. 274; p. 759.

Lamp, Gas-mantle. T. H. Stafford. No. 1,340,424; May 18; v. 274; p. 466.
Lamp, Household-. H. Galopin. No. 1,339,699; May 11; v. 274; p. 272.
Lamp, Incandescent. J. Judge. No. 1,340,054; May 11; v. 274; p. 339.
Lamp, Picture-projection. W. G. Preddey. No. 1,340,499; May 18; v. 274; p. 480.
Lamp, Railway signal-. A. H. Handlan, Jr. No. 1,338,769; May 4; v. 274; p. 23.
Lamp, Reflecting-. H. A. Douglas. No. 1,339,695; May 11; v. 274; p. 271.
Lamp, Sanctuary. F. Quin. No. 1,339,788; May 11; v. 274; p. 289.
Lamp-standards, Concrete. E. G. Perl and L. C. Boss. No. 1,339,220; May 4; v. 274; p. 106.
Land-ridging machine. V. E. Parrish. No. 1,339,040; May 4; v. 274; p. 73.
Lantern-burner. W. S. Hamm and F. A. Schuetz. No. 1,341,122; May 25; v. 274; p. 670.
Lantern, Portable electric hand-. J. W. Knoblock. No. 1,341,471; May 25; v. 274; p. 738.
Lantern, Tubular. E. C. Everett. No. 1,338,911; May 4; v. 274; p. 48.
Lard-dispensing machine. H. W. Williams. No. 1,340,590; May 18; v. 274; p. 498.
Lard-dispensing machines, Cooling apparatus for. H. W. Williams. No. 1,341,605; May 25; v. 274; p. 763.
Latch. P. Gazzi. No. 1,340,605; May 18; v. 274; p. 501.
Latch. C. A. Massoll. No. 1,338,689; May 4; v. 274; p. 7.
Latch, Gate-. L. Magee. No. 1,341,569; May 25; v. 274; p. 757.
Latching device. B. J. Cohon. No. 1,339,320; May 4; v. 274; p. 123.
Lathe. H. M. Lofton. No. 1,338,742; May 4; v. 274; p. 17.
Lathe-machine. P. V. Vernon. No. 1,339,836; May 11; v. 274; p. 298.
Lathe-stopping mechanism. E. C. Ballman. No. 1,340,811; May 18; v. 274; p. 539.
Lathe, Valve-. A. C. Savidge and F. D. Hatfield. No. 1,339,791; May 11; v. 274; p. 289.
Lathes, Micrometer gage or stop device for. W. H. Runge. No. 1,339,984; May 11; v. 274; p. 326.
Lathes, Relieving attachment for. W. H. Runge. No. 1,339,983; May 11; v. 274; p. 325.
Lathes, Relieving attachment for. G. D. Sundstrand. No. 1,338,757; May 4; v. 274; p. 20.
Lather-edge-finishing machines and method therefor. F. W. Merrick. No. 1,339,776; May 11; v. 274; p. 286.
Laundry-drier. J. J. Power. No. 1,338,696; May 4; v. 274; p. 9.
Laundry-tub. A. M. Neilsen. No. 1,340,852; May 18; v. 274; p. 546.
Lay figures, Arms for exhibition. P. Imans. No. 1,340,446; May 18; v. 274; p. 470.
Leather, Detanning chrome-. M. C. Lamb. No. 1,340,721; May 18; v. 274; p. 522.
Leather, Manufacture of Mocha. L. Forse. No. 1,339,751; May 11; v. 274; p. 282.
Leather-working machine. F. W. Tucker. No. 1,340,262; May 18; v. 274; p. 435.
Ledger. J. C. Dawson. No. 1,340,157; May 18; v. 274; p. 416.
Lens. H. W. Hill. No. 1,340,715; May 18; v. 274; p. 521.
Lens. E. D. Tillyer. No. 1,340,189; May 18; v. 274; p. 422.
Lens blank, Ophthalmic-. A. J. Cross. No. 1,340,021; May 11; v. 274; p. 332.
Lens-mount. F. A. Persohn; No. 1,339,974; May 11; v. 274; p. 324.
Letter-holder for packages. A. P. Simao. No. 1,338,875; May 4; v. 274; p. 41.
Letter-sheet and envelop, Combined. M. A. Brandt. No. 1,340,114; May 11; v. 274; p. 351.
Level, Dumpy-. C. Heinrich. No. 1,341,209; May 25; v. 274; p. 687.
Level, Protractor- E. L. Powell. No. 1,339,787; May 11; v. 274; p. 289.
Level, Track-. F. P. Longcor. No. 1,341,377; May 25; v. 274; p. 720.
Lever, Clutch-control. C. Leach. No. 1,341,566; May 25; v. 274; p. 756.
Lever-lock. R. M. Grupe and T. S. Hunt. No. 1,341,504; May 25; v. 274; p. 744.
Levers, Lock for shift-. R. J. Manley. No. 1,338,945; May 4; v. 274; p. 54.
License-plate holder. G. W. Emmert. No. 1,340,387; May 18; v. 274; p. 459.
Lid-fastener and card-holder, Combination. G. H. Proffitt. No. 1,341,588; May 25; v. 274; p. 760.
Lid-lifter for receptacles. E. Snickers. No. 1,341,390; May 25; v. 274; p. 722.
Life-preserver. W. M. Demeau. No. 1,339,617; May 11; v. 274; p. 256.
Life-saving device. J. Sebeto. No. 1,339,227; May 4; v. 274; p. 107.
Lifting-jack. W. C. Engel. No. 1,341,305; May 25; v. 274; p. 705.
Lifting-jack. L. J. Hall. No. 1,339,926; May 11; v. 274; p. 315.
Light: *See*—
Automobile spot-light.
Dirigible light.
Time-controlled light.
Vehicle-curtain light.
Light-projecting apparatus. G. T. Thompson. No. 1,339,304; May 4; v. 274; p. 120.
Light-projectors, Training control for. C. E. Akeley. No. 1,341,004; May 25; v. 274; p. 647.
Lighting-fixture. H. E. Gleason. No. 1,340,443; May 18; v. 274; p. 470.
Lighting-fixture. J. T. Thompson. No. 1,340,261; May 18; v. 274; p. 435.
Lightning-arrester. E. Jacobus. No. 1,340,657; May 18; v. 274; p. 510.
Limb, Artificial. G. Nelson. No. 1,340,239; May 18; v. 274; p. 431.
Line-lock. S. N. Lind. No. 1,340,851; May 18; v. 274; p. 546.
Line-reel and marker or chalker, Combined. J. H. Kerr. No. 1,338,935; May 4; v. 274; p. 53.
Link and strut, Fusible. L. M. Lewis. No. 1,339,829; May 11; v. 274; p. 297.
Liquid-dispenser. A. K. Wood. No. 1,341,095; May 25; v. 274; p. 665.
Liquid-dispensing apparatus. J. B. Davis. No. 1,341,263; May 25; v. 274; p. 697.
Liquid-distributing system. W. A. Timm. No. 1,341,447; May 25; v. 274; p. 733.
Liquid-evaporator. R. T. White. No. 1,338,848; May 4; v. 274; p. 37.
Liquid-fuel burner. E. H. Tate. No. 1,340,803; May 18; v. 274; p. 537.
Liquid-fuel-burning furnace. R. G. Breeding. No. 1,341,294; May 25; v. 274; p. 703.
Liquid-meter. P. J. Roach and D. Carter. No. 1,340,293; May 18; v. 274; p. 441.
Liquid-supply-control apparatus. G. Moore. No. 1,338,995; May 4; v. 274; p. 64.
Liquid-vending apparatus. J. M. Miller. No. 1,339,522; May 11; v. 274; p. 238.
Liquids and apparatus used in connection therewith, Vaporizing. C. D. McClintock. No. 1,341,476; May 25; v. 274; p. 739.
Liquids, Apparatus and process for the continuous distillation of. F. I. Gibson. No. 1,340,653; May 18; v. 274; p. 510.
Litter-carriers, Swing-pole track-hinge for. W. S. Beaty. No. 1,340,208; May 18; v. 274; p. 425.
Load handling and measuring device. F. C. Carstarphen. No. 1,341,297; May 25; v. 274; p. 704.
Loading device. H. G. Schaefer. No. 1,339,290; May 4; v. 274; p. 118.
Lock: *See*—
Auto-lock.
Automobile-lock.
Automatic dump-lock.
Circuit-lock.
Coin-controlled lock.
Combination-lock.
Door-lock.
Electric-switch lock.
Elevator-lock.
Lever-lock.
Nut-lock.
Permutation-lock.
Pin-tumbler lock.
Sash-lock.
Switch-lock.
Time-lock.
Tire-casing lock.
Valve-lock.
Window-lock.
Lock. J. H. Shaw. No. 1,339,721; May 11; v. 274; p. 276.
Lock. H. A. Swenson. No. 1,341,602; May 25; v. 274; p. 762.
Lock and latch. J. T. Bickel. No. 1,341,038; May 25; v. 274; p. 654.
Lock-washer-making machine. F. Kessel. No. 1,338,737; May 4; v. 274; p. 16.
Locking mechanism. Differential-. H. O. Darr. No. 1,338,720; May 4; v. 274; p. 13.
Locking-switch. F. E. Getts. No. 1,339,506; May 11; v. 274; p. 235.
Locking-washer. C. Offner. No. 1,341,279; May 25; v. 274; p. 700.
Locomotive booster-motor. H. L. Ingersoll. No. 1,339,395; May 11; v. 274; p. 213.
Locomotive-crane sander. T. H. Cochrane. No. 1,340,016; May 11; v. 274; p. 331.
Locomotive driving-box. A. W. Simmons. No. 1,339,228; May 4; v. 274; p. 107.
Locomotive, Electric. C. C. Powers. No. 1,341,243; May 25; v. 274; p. 693.
Locomotive, Oil-burning. J. T. Anthony. No. 1,340,202; May 18; v. 274; p. 424.
Locomotives, Governor for booster-motors for. H. L. Ingersoll. No. 1,339,513; May 11; v. 274; p. 236.
Locomotives, Repair apparatus for. A. E. Dillon. No. 1,341,302; May 25; v. 274; p. 704.
Loom for weaving tufted fabric, such as carpets. A. Davis. No. 1,341,417; May 25; v. 274; p. 727.
Loom stop mechanism. W. H. Bahan, Jr. No. 1,339,841; May 11; v. 274; p. 299.
Looms, Feeler mechanism for. A. E. Rhoades. No. 1,339,002; May 4; v. 274; p. 65.
Looms, Filling, clamping, and parting machine for. J. P. Rolen. No. 1,341,022; May 25; v. 274; p. 657.
Looms, Shedding motion for. L. G. Sabbag. No. 1,339,716; May 11; v. 274; p. 275.
Looms, Shuttle-feeler for. J. Taranto. No. 1,341,026; May 25; v. 274; p. 651.
Looms, Thread-parting mechanism for. W. L. Barrell. No. 1,340,207; May 18; v. 274; p. 425.
Loop holder, Slide-. C. H. Grings. No. 1,341,314; May 25; v. 274; p. 707.
Lubricating apparatus. J. A. Fesler. No. 1,341,420; May 25; v. 274; p. 728.

Lubricating device. A. L. Hansen. No. 1,339,619; May 11; v. 274; p. 257.
Lubricating mechanism. D. R. Scholes. No. 1,341,080; May 25; v. 274; p. 662.
Lubricants, Making. C. H. Bierbaum. No. 1,340,316; May 18; v. 274; p. 445.
Lubricator: *See*—
Car-axle lubricator.
Lug-strap support. J. P. Smith. No. 1,339,295; May 4; v. 274; p. 118.
Lumber branding and rebranding machine for planing mills and roller-beds. J. G. McDonough. No. 1,340,967; May 25; v. 274; p. 640.
Lumber-marking machine. J. G. McDonough. No. 1,340,966; May 25; v. 274; p. 640.
Machine attachment. W. H. Moran. No. 1,341,066; May 25; v. 274; p. 659.
Machine elements, Apparatus for sorting. C. T. Morey. No. 1,341,278; May 25; v. 274; p. 700.
Machine-tool bed. P. V. Vernon. No. 1,339,937; May 11; v. 274; p. 298.
Machine-tools, Feeding mechanism for. L. E. Waite. No. 1,340,584; May 18; v. 274; p. 497.
Machine-tools, Spindle-driving mechanism for. L. E. Waite. No. 1,340,585; May 18; v. 274; p. 497.
Machine-tools, Quick-traverse mechanism for feeds for. L. E. Waite. No. 1,340,586; May 18; v. 274; p. 497.
Magazine-rocket. R. H. Goddard. No. 1,341,053; May 25; v. 274; p. 657.
Magnesium from dolomite, Separating. A. M. Mitchell. No. 1,340,905; May 25; v. 274; p. 628.
Magnetic material, Apparatus for separating. E. Newton. No. 1,340,457; May 18; v. 274; p. 472.
Magneto-coupling, Flexible adjustable. R. D. Hills. No. 1,340,610; May 18; v. 274; p. 502.
Mail-box support or holder, Rural-. M. L. Vick. No. 1,340,426; May 18; v. 274; p. 467.
Mail-chute. F. B. Cook. No. 1,338,975; May 4; v. 274; p. 60.
Mail-chute. F. B. Cook. No. 1,338,976; May 4; v. 274; p. 60.
Mail-chute. F. J. Wuesthoff. (Reissue.) No. 14,854; May 4; v. 274; p. 135.
Mail-chute. F. J. Wuesthoff. (Reissue.) No. 14,855; May 4; v. 274; p. 136.
Mail-delivery apparatus. J. Rushing. No. 1,340,840; May 18; v. 274; p. 544.
Mail-distributing device. R. J. and I. W. H. Hankins. No. 1,340,046; May 11; v. 274; p. 337.
Mail-exchange, Aerial. W. H. Burton and C. J. Wilkerson. No. 1,338,970; May 4; v. 274; p. 59.
Manganates, Making. C. E. Vanderkleed. No. 1,339,242; May 4; v. 274; p. 109.
Manifold-heater. C. S. Horton. No. 1,340,770; May 18; v. 274; p. 531.
Manure-loader. E. Kernen. No. 1,339,263; May 4; v. 274; p. 113.
Marking-machines, Printing-head for. C. F. Robbins. No. 1,341,021; May 25; v. 274; p. 650.
Marks to articles, Machine for applying. F. G. Neal. No. 1,339,857; May 11; v. 274; p. 302.
Match-box. F. J. Kristofek. No. 1,341,139; May 25; v. 274; p. 673.
Match-box. F. J. Kristofek. No. 1,341,140; May 25; v. 274; p. 673.
Match-box. W. J. Prevost. No. 1,340,980; May 25; v. 274; p. 643.
Match-box. W. Rumble, Jr. No. 1,341,074; May 25; v. 274; p. 661.
Match-igniting device. J. E. Neahr. No. 1,338,692; May 4; v. 274; p. 8.
Match-ignition composition. W. H. Dixon. No. 1,341,012; May 25; v. 274; p. 649.
Match-lighter. E. J. Fisher. No. 1,339,185; May 4; v. 274; p. 99.
Match-scratcher. J. E. High. No. 1,338,920; May 4; v. 274; p. 50.
Matches, Card-. C. L. Pfersch. No. 1,339,975; May 11; v. 274; p. 324.
Matter, Composition of. A. L. Straus. No. 1,339,528; May 11; v. 274; p. 239.
Mattress, Hospital-. P. F. King. No. 1,341,564; May 25; v. 274; p. 756.
Mattress, Sanitary. C. S. Cooper. No. 1,339,880; May 11; v. 274; p. 306.
Mattresses, Sanitary cover-pad for. J. W. and M. B. Callahan. No. 1,339,738; May 11; v. 274; p. 279.
Mausoleums, Wall construction for. W. E. Hughes and J. B. King. No. 1,340,656; May 18; v. 274; p. 510.
Measure, Rouge-powder. W. G. Kendall. No. 1,340,275; May 18; v. 274; p. 437.
Measuring and cost-computing machine, Fabric-. L. Ehrlich. No. 1,339,748; May 11; v. 274; p. 281.
Measuring device, Fluid-. A. B. Wood. No. 1,339,909; May 11; v. 274; p. 311.
Measuring device, Fluid-. A. B. Wood. No. 1,339,997; May 11; v. 274; p. 328.
Measuring device, Liquid-. J. D. Meredith. No. 1,341,189; May 25; v. 274; p. 683.
Measuring device, Rope-. F. A. Ellis, Jr. No. 1,340,218; May 18; v. 274; p. 427.
Measuring instrument. E. H. Bristol. No. 1,340,148; May 18; v. 274; p. 415.
Measuring instrument, Angle-. A. Berg. No. 1,341,036; May 25; v. 274; p. 653.
Meat-cutter safety-drive. J. Miller. No. 1,339,273; May 4; v. 274; p. 115.
Meat-slicing machine. A. H. Hieatzman. No. 1,339,623; May 11; v. 274; p. 258.
Metal brake-beam. T. L. Burton. No. 1,340,007; May 11; v. 274; p. 330.
Metal wheel. L. S. Lachman. No. 1,340,961; May 25; v. 274; p. 638.
Metals, Uniting dissimilar. G. A. Mead. No. 1,341,337; May 25; v. 274; p. 711.
Metallurgical process. A. Foss and B. F. Halvorsen. No. 1,340,480; May 18; v. 274; p. 477.
Meter: *See*—
Liquid-meter.
Meter. L. Burnham. No. 1,338,852; May 4; v. 274; p. 37.
Micrometer. J. J. Davis. No. 1,341,546; May 25; v. 274; p. 752.
Micrometer-gage. F. O. Jaques, Sr. No. 1,338,932; May 4; v. 274; p. 52.
Milk and making same, Reconstructed. A. W. Bosworth. No. 1,341,040; May 25; v. 274; p. 654.
Milk, Apparatus for treating and canning. B. E. Taylor. No. 1,340,921; May 25; v. 274; p. 630.
Milk-boiler. M. Hankulich. No. 1,340,336; May 18; v. 274; p. 449.
Milk-can cover. M. O. Wisegarver. No. 1,340,097; May 11; v. 274; p. 347.
Milker, Portable cow-. W. M. Mehring. No. 1,341,430; May 25; v. 274; p. 729.
Mill: *See*—
Coffee-grinding mill.
Crushing-mill.
Mixing-mill.
Wet-coal mill.
Mill-stop, Automatic. N. M. Gidley. No. 1,341,268; May 25; v. 274; p. 698.
Milling-machine. A. L. Bausman and G. S. Perkins. No. 1,341,252; May 25; v. 274; p. 695.
Milling-machine. H. G. Beede. No. 1,341,034; May 25; v. 274; p. 653.
Milling-machine. P. J. Darlington. No. 1,341,300; May 25; v. 274; p. 704.
Milling-machine. E. L. Williams. No. 1,339,490; May 11; v. 274; p. 232.
Milling-machine attachment. C. F. Schmelzer. No. 1,340,741; May 18; v. 274; p. 526.
Milling-machine, Double-head. C. L. Huston. No. 1,339,029; May 4; v. 274; p. 70.
Milling screw-threads, Means applicable for use in. G. Richards. No. 1,339,223; May 4; v. 274; p. 106.
Mills, Cage construction for. M. F. Williams. No. 1,340,643; May 18; v. 274; p. 508.
Mine-cages, Safety device for. S. Peskolich. (Reissue.) No. 14,864; May 25; v. 274; p. 768.
Mine, Submarine. T. K. North. No. 1,340,288; May 18; v. 274; p. 440.
Mines, Towing. J. P. Nordell. No. 1,341,578; May 25; v. 274; p. 758.
Mineral-manure process. W. M. Johnson. No. 1,338,734; May 4; v. 274; p. 16.
Mining and loading machine. E. C. Morgan. No. 1,340,731; May 18; v. 274; p. 524.
Miter-cutting device. J. Dwyer. No. 1,339,747; May 11; v. 274; p. 281.
Mixer: *See*—
Cement-mixer.
Concrete-mixer.
Drink-mixer.
Mixer. M. L. Gehl, A. L. Merriam, and H. M. Gehl. No. 1,340,947; May 25; v. 274; p. 636.
Mixing-mill. J. Schaub. No. 1,340,464; May 18; v. 274; p. 473.
Mold: *See*—
Plastic-block mold.
Mold-panel. N. F. Ambursen. No. 1,339,912; May 11; v. 274; p. 312.
Mold pouring and weighting unit, Combined. C. K. Prince. No. 1,339,133; May 4; v. 274; p. 91.
Molders, Spindle adjustment for motor-driven. M. B. Gathman and R. D. Eaglesfield. No. 1,340,709; May 18; v. 274; p. 520.
Molding apparatus. A. A. Pauly. No. 1,339,712; May 11; v. 274; p. 275.
Molding device. E. L. Baker. No. 1,339,642; May 11; v. 274; p. 261.
Molding-machine. J. Knapp. No. 1,339,354; May 4; v. 274; p. 130.
Molding-machine. W. P. Krause. No. 1,340,658; May 18; v. 274; p. 511.
Molding plastic materials. D. S. Landstra. No. 1,340,452; May 18; v. 274; p. 471.
Mop. A. W. Grant. No. 1,339,925; May 11; v. 274; p. 315.
Mop-head. I. M. Kaufman. No. 1,339,398; May 11; v. 274; p. 214.
Mop or brush. A. Hamilton. No. 1,339,026; May 4; v. 274; p. 70.
Motion of one type into motion of another type, Apparatus for the conversion of. A. Barr and W. Stroud. No. 1,339,643; May 11; v. 274; p. 261.
Motion-registering apparatus. L. T. Foss. No. 1,340,036; May 11; v. 274; p. 335.

Motor: *See*—
Hydrocarbon-motor. Turbine-motor.
Internal-combustion motor. Water-motor.
Locomotive booster-motor.
Motor-control system. R. I. Wright. (Reissue.) No. 14,861; May 18; v. 274; p. 550.
Motor-controller. C. T. Henderson. No. 1,339,930; May 11; v. 274; p. 316.
Motor-repair stand. A. H. Jenkins. No. 1,341,322; May 25; v. 274; p. 708.
Motor-starting switch. H. J. L. and L. H. Frank. No. 1,338,825; May 4; v. 274; p 32.
Motor-support. C. C. Marx. No. 1,341,477; May 25; v. 274; p. 739.
Motors, Cam-shaft structure and oiling mechanism for internal-combustion. A. Winton. No. 1,339,839; May 11; v. 274; p. 298.
Motors, Control system for single-phase alternating-current. R. E. Hellmund. No. 1,339,928; May 11; v. 274; p. 315.
Motorcycle. E. V. Hammond. No. 1,339,387; May 11; v. 274; p. 212.
Motorcycle spring-frame. R. E. Walker. No. 1,340,508; May 18; v. 274; p. 482.
Mowing-machines, Sickle-bar head for. F. Huff. No. 1,341,212; May 25; v. 274; p. 687.
Mud-lug. B. M. Mathias. No. 1,340,834; May 18; v. 274; p. 543.
Muffle-furnace. W. O. Amsler. No. 1,341,031; May 25; v. 274; p. 652.
Muffler cut-out. N. A. Petry. No. 1,339,284; May 4; v. 274; p. 117.
Muffler cut-outs, Hand-operating device for. G. H. Taber. No. 1,340,802; May 18; v. 274; p. 537.
Muffler, Exhaust-. S. E. Delavan. No. 1,340,158; May 18; v. 274; p. 417.
Mulsh layer. H. E. Starratt. No. 1,341,484; May 25; v. 274; p. 741.
Multigraph-segments, Support for. M. P. Rollins. No. 1,338,964; May 4; v. 274; p. 58.
Multiple drill. W. H. J. Gwyer. No. 1,340,953; May 25; v. 274; p. 637.
Multivolt battery, Secondary or storage. W. E. Kershaw. No. 1,341,469; May 25; v. 274; p. 737.
Music-leaf turner. T. M. Jolley. No. 1,339,261; May 4; v. 274; p. 113.
Music-roll. P. S. McLean. No. 1,340,175; May 18; v. 274; p. 420.
Musical instrument. F. Zamecnik. No. 1,340,098; May 11; v. 274; p. 347.
Musical instrument, Stringed. E. Re. No. 1,340,628; May 18; v. 274; p. 505.
Musical instruments, Pneumatic action for. W. C. Collignon. No. 1,340,017; May 11; v. 274; p. 332.
Musical instruments, String for. C. Graiver. No. 1,339,953; May 11; v. 274; p. 320.
Nail-driving implement. A. J. De Lander. No. 1,340,705; May 18; v. 274; p. 519.
Nail-packing machinery. T. Alexander. No. 1,340,200; May 18; v. 274; p. 424.
Name-plate. C. H. Lane and J. H. Steele. No. 1,340,778; May 18; v. 274; p. 533.
Napkin-ring. J. Erdoes and E. Sas. No. 1,339,180; May 4; v. 274; p. 98.
Needle. J. T. Careaga. No. 1,341,357; May 25; v. 274; p. 715.
Needle, Knitting-. L. D. Schoolfield. No. 1,340,255; May 18; v. 274; p. 434.
Needle, Knitting-machine. P. P. La Montague. No. 1,339,959; May 11; v. 274; p. 321.
Nest, Sanitary hen's. S. S. Good. No. 1,338,725; May 4; v. 274; p. 14.
Net-frame, Folding. E. E. Brown. No. 1,340,874; May 25; v. 274; p. 6--.
Nipples, Making spoke- J. H. Graham. No. 1,340,166; May 18; v. 274; p. 418.
Non-skid device. L. L. Kellogg. No. 1,338,934; May 4; v. 274; p. 52.
Non-skid for wheels. F. Huda. No. 1,340,048; May 11; v. 274; p. 337.
Nozzle, Douche-. E. V. Szyperski. No. 1,338,710; May 4; v. 274; p. 12.
Nozzle-holder. M. Havey. No. 1,339,885; May 11; v. 274; p. 307.
Nursery-seat. A. A. Howe. No. 1,339,891; May 11; v 274; p. 308.
Nut. T. Kinney. No. 1,339,015; May 4; v. 274; p. 87.
Nut-lock. A. C. Blake. No. 1,339,015; May 4; v. 274; p. 67.
Nut, Lock-. W. H. Gorr. No. 1,338,862; May 4; v. 274; p. 39.
Nut-lock. C. A. Gustaveson. No. 1,341,269; May 25; v. 274; p. 698.
Nut, Lock-. L. H. Jones. No. 1,341,175; May 25; v. 274; p. 680.
Nut, Lock-. B. Miley. No. 1,339,120; May 4; v. 274; p. 88.
Nut-lock. B. G. Patterson. No. 1,340,496; May 18; v. 274; p. 480.
Nut-lock. A. F. Thompson. No. 1,341,604; May 25; v. 274; p. 763.
Nut, Lock-. J. Varoga. No. 1,341,400; May 25; v. 274; p. 724.
Nut-locking device. G. S. Evans. No. 1,340,602; May 18; v. 274; p. 500.
Nut-marking machine. J. de Barros. No. 1,339,881; May 11; v. 274; p. 306.
Nut-shaving machine. H. Anderson. No. 1,339,086; May 4; v. 274; p. 82.
Odometer. C. F. Miller. No. 1,340,493; May 18; v. 274; p. 479.
Odontometer. P. N. Williams. No. 1,340,354; May 18; v. 274; p. 453.
Offsetting-press. H. Miller. No. 1,340,138; May 11; v. 274; p. 355.
Oil, Apparatus for the distillation of. S. D. Faust. No. 1,340,532; May 18; v. 274; p. 486.
Oil-burner, Vapor. C. W. Turnbull and J. H. Fox. No. 1,340,038; May 11; v. 274; p. 336.
Oil-can. J. D. Karle. No. 1,339,765; May 11; v. 274; p. 284.
Oil-can. J. H. Hall. No. 1,340,954; May 25; v. 274; p. 637.
Oil-cracking apparatus. W. B. Poole. No. 1,340,793; May 18; v. 274; p. 535.
Oil from chips, Centrifugal machine for separating. J. W. Pittock. No. 1,340,682; May 18; v. 274; p. 515.
Oil from vegetable seeds, and nuts, Extracting. C. Downs, R. A. Bellwood, and T. W. Turnill. No. 1,338,909; May 4; v. 274; p. 48.
Oil-refiner. J. S. Leigh. No. 1,339,769; May 11; v. 274; p. 285.
Oil, Removing odor from fish-. U. Ioka. No. 1,340,050; May 11; v. 274; p. 338.
Oil-washer, Leak-proof. C. J. Hunstad. No. 1,339,762; May 11; v. 274; p. 284.
Oils from citrus fruits, Machine for recovering essential. L. C. Rice. No. 1,341,341; May 25; v. 274; p. 712.
Oiler. E. M. Reid. No. 1,340,406; May 18; v. 274; p. 463.
Oiler, Automatic R. G. Fiege. No. 1,338,914; May 4; v. 274; p. 49.
Oiler for air-compressors. E. C. Barchard. No. 1,339,540; May 11; v. 274; p. 241.
Oiler, Leaf-spring. W. M. White and A. Gauslin. No. 1,339,872; May 11; v. 274; p. 305.
Oiler, Saw-. J. G. Speer. No. 1,340,742; May 18; v. 274; p. 526.
Oiler, Spring-. W. H. Brown. No. 1,339,546; May 11; v. 274; p. 243.
Oiler, Spring-. G. L. Woodjard. No. 1,339,538; May 11; v. 274 p. 241.
Oiler, Tractor-tread. P. F. Naftel and H. H. Garner. No. 1,339,523; May 11; v. 274; p. 238.
Oiling system. C. F. Schell. No. 1,340,687; May 18; v. 274; p. 516.
Open-hearth furnace. F. B. McKune. No. 1,339,855; May 11; v. 274; p. 302.
Opera-chair. F. Fessler. No. 1,339,445; May 11; v. 274; p. 223.
Ophthalmic mounting. L. W. Bugbee. No. 1,340,875; May 25; v. 274; p. 622.
Ophthalmic mounting. E. L. Schumacher. No. 1,341,344; May 25; v. 274; p. 713.
Ophthalmic mounting. F. A. Stevens. No. 1,338,880; May 4; v. 273; p. 42.
Optical apparatus and operating same. A. R. Dennington. No. 1,338,818; May 4; v. 274; p. 31.
Order-blank, Tailor's. H. C. Dixon. No. 1,339,693; May 11; v. 274; p. 271.
Ordnance-breech mechanism. A. L. Dawson and G. T. Buckham. No. 1,340,215; May 18; v. 274; p. 427.
Ore leaching and settling tank. R. Gahl. No. 1,341,208; May 25; v. 274; p. 687.
Ore, Magnetic sizing and grading of. W. G. Swart, F. A. Jordan, E. W. Davis, and T. B. Connselman. No. 1,339,300; May 4; v. 274; p. 119.
Ore-separating machine. G. Demaine. No. 1,339,056; May 4; v. 274; p.76.
Ores, Machine for the separation of sulfid. H. V. Seale and W. Shellshear. No. 1,341,024; May 25; v. 274; p. 651.
Organ, Mouth-. E. Lamprecht. No. 1,339,960; May 11; v. 274; p. 321.
Oven, Coke-. H. W. Buhler. No. 1,341,257; May 25; v. 274; p. 696.
Oven, Coke-. H. W. Buhler. No. 1,341,258; May 25; v. 274; p. 696.
Oven, Multiple baker's O. Wundrack. No. 1,339,616; May 11; v. 274; p. 256.
Oven, Portable baker's. G. L. Gay. No. 1,340,946; May 25; v. 274; p. 636.
Oven, Sectional. A. Maehler. No. 1,339,601; May 11; v. 274; p. 253.
Oven with regenerator. C. Berthelot. No. 1,340,104; May 11; v. 274; p. 348.
Ovens, Bottle-feeding mechanism for annealing-. W. Stender. No. 1,339,834; May 11; v. 274; p. 297.
Ovens, Thermostatic fuel-regulating device for gas-. B. E. Meacham. No. 1,339,964; May 11; v. 274; p. 322.
Overalls. H. Godchaux. No. 1,341,313; May 25; v. 274; p. 706.
Overalls. J. A. Horn. No. 1,341,506; May 25; v. 274; p. 744.
Overalls, Union-. G. L. Campbell. No. 1,341,224; May 25; v. 274; p. 690.
Overshoe. H. Westling. No. 1,339,994; May 11; v. 274; p. 327.

Overshoe, Baseball-. J. B. Yarnell and H. Frank. No. 1,340,356; May 18; v. 274; p. 453.
Oxid (zirconia) from ores and minerals, Separating and extracting zirconium. J. Gordon. No. 1,340,888; May 25; v. 274; p. 625.
Oxygen-concentrator. G. McKerahan. No. 1,339,211; May 4; v. 274; p. 104.
Package, Stationery-. H. R. Thorpe. No. 1,339,908; May 11; v. 274; p. 311.
Package-tie. J. B. Calhoun. No. 1,339,317; May 4; v. 274; p. 123.
Packing-box lining. J. M. Merrow. No. 1,340,968; May 25; v. 274; p. 640.
Packing for steam-turbine shafts. E. D. Spicer. No. 1,339,297; May 4; v. 274; p. 119.
Pad: *See*—
Blotting-pad. Sketching-pad.
Horse-collar sweat-pad. Umbrella-tip pad.
Padlock. C. G. Engle. No. 1,341,169; May 25; v. 274; p. 679.
Padlock. M. Zukowski. No. 1,340,928; May 25; v. 274; p. 632.
Paint and making same. J. Wingen. No. 1,341,250; May 25; v. 274; p. 694.
Pan: *See*—
Baking-pan. Roasting-pan.
Pump overflow-pan.
Paper-bag holder. J. C. Groff. No. 1,340,335; May 18; v. 274; p. 449.
Paper carton, Self-locking. J. B. Heiser. No. 1,339,334; May 4; v. 274; p. 126.
Paper-clip. J. J. O'Brien. No. 1,340,180; May 18; v. 274; p. 420.
Paper-cup-forming machine, Automatic. W. W. Bevan and C. E. Clarke. No. 1,339,315; May 4; v. 274; p. 122.
Paper-file. C. H. Lee. No. 1,339,768; May 11; v. 274; p. 285.
Paper-hanger's cutting-board. R. B. Stanley. No. 1,341,445; May 25; v. 274; p. 733.
Parachute. F. Smith. No. 1,340,423; May 18; v. 274; p. 466.
Parachute. J. W. Taylor. No. 1,340,259; May 18; v. 274; p. 434.
Passageway and for making and laying a pipe in same, Apparatus for making an underground. R. Powell. No. 1,340,836; May 18; v. 274; p. 543.
Pasteurizer. J. C. Miller. No. 1,340,177; May 18; v. 274; p. 420.
Pastry, Method and means for forming and baking cup-. L. C. Sharp. No. 1,341,081; May 25; v. 274; p. 662.
Patterns, Multiple reproduction of. G. Piccioni. No. 1,340,460; May 18; v. 274; p. 473.
Pavement, Block. H. G. Jennison. No. 1,340,896; May 25; v. 274; p. 626.
Pea-huller. F. Hamachek. No. 1,340,607; May 18; v. 274; p. 501.
Peanut-roaster. S. C. Peckham. No. 1,339,365; May 4; v. 274; p. 132.
Pen, Fountain-. D. J. La France and W. P. De Witt. No. 1,340,277; May 18; v. 274; p. 438.
Pen, Ruling-. M. P. Hermann. No. 1,340,895; May 25; v. 274; p. 626.
Pen, Stylographic. J. Abegg. No. 1,339,011; May 4; v. 274; p. 66.
Pen, Stylographic fountain-. C. Weltz. No. 1,340,926; May 25; v. 274; p. 631.
Pens or pencils, Illuminating attachment for. C. M. East. No. 1,341,267; May 25; v. 274; p. 697.
Pencil. H. L. Fischer. No. 1,340,331. May 18; v. 274; p. 448.
Pencil-holder. S. P. Kay. No. 1,338,933; May 4; v. 274; p. 52.
Pencil-holder. A. Klingele. No. 1,341,509; May 25; v. 274; p. 745.
Pencils, Eraser-holding clip for. P. Lazarides. No. 1,339,707; May 11; v. 274; p. 274.
Penholder-clip. J. Kritikson. No. 1,339,359; May 4; v. 274; p. 131.
Perch, Spring. O. E. Zahn. No. 1,338,895; May 4; v. 274; p. 45.
Perforating-machine gage. F. S. Glines. No. 1,341,312; May 25; v. 274; p. 706.
Permutation-lock. A. B. Fidrockl. No. 1,339,446; May 11; v. 274; p. 223.
Permutation-lock. A. L. Vearn. No. 1,340,583; May 18; v. 274; p. 496.
Phenolic condensation product and manufacturing. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,339,134; May 4; v. 274; p. 91.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,558; May 11; v. 274; p. 245.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,648; May 11; v. 274; p. 262.
Phonograph and analogous apparatus. E. Grissinger. No. 1,339,649; May 11; v. 274; p. 263.
Phonograph attachment. D. McNeill. No. 1,341,511; May 25; v. 274; p. 745.
Phonograph-records, Apparatus for cleaning. E. V. George. No. 1,339,700; May 11; v. 274; p. 272.
Phonograph-mount. C. H. E. Boughton. No. 1,340,369; May 18; v. 274; p. 456.
Phonograph-needles, Machine for making. G. T. Oium. No. 1,340,400; May 18; v. 274; p. 461.
Phonograph-record-filing device. R. J. Bentley. No. 1,340,364; May 18; v. 274; p. 455.
Phonograph-resetting device. T. Ahearn. No. 1,340,358; May 18; v. 274; p. 453.
Phonograph sound-box. J. N. Pepin. No. 1,341,154; May 25; v. 274; p. 676.
Phonograph-stop, Automatic. W. D. Griswold. No. 1,339,058; May 4; v. 274; p. 76.
Phonograph-tone modifier. M. Maltz. No. 1,339,404; May 11; v. 274; p. 215.
Phonograph tone-modulator. F. Myers. No. 1,338,950; May 4; v. 274; p. 55.
Phonographs, Automatic stop and start for. P. M. Krèe and F. Dauteuil. No. 1,339,203; May 4; v. 274; p. 102.
Photo-engraver's screen. A. J. Arata. No. 1,341,610; May 25; v. 274; p. 764.
Photochemical apparatus. W. O. Snelling. No. 1,339,675; May 11; v. 274; p. 268.
Photographic apparatus. E. C. S. Parker. No. 1,341,338; May 25; v. 274; p. 711.
Photographic phonograph. F. W. Adsit. No. 1,338,719; May 4; v. 274; p. 13.
Photographic-printing apparatus. G. C. Beidler. No. 1,340,209; May 18; v. 274; p. 425.
Photoprinting-machine. F. H. White. No. 1,340,511; May 18; v. 274; p. 482.
Piano and other string instruments, Hitch-pin for. F. J. Colmus. No. 1,339,689; May 11; v. 274; p. 270.
Piano-control apparatus, Player-. M. S. Howard. No. 1,339,848; May 11; v. 274; p. 300.
Piano-keys, Touch-regulator for. H. Bell and E. H. Lenz. No. 1,341,635; May 25; v. 274; p. 653.
Piano mechanism, Player-. J. P. Hulder. No. 1,341,425; May 25; v. 274; p. 728.
Piano-note indicator. S. Siegel. No. 1,340,569; May 18; v. 274; p. 493.
Piano-pedal. J. Giglio. No. 1,340,162; May 18; v. 274; p. 417.
Pianos, Expression mechanism for mechanical. C. Contal. No. 1,340,019; May 11; v. 274; p. 332.
Pick. J. A. Velchansky and S. Stefaniak. No. 1,339,638; May 11; v. 274; p. 260.
Picker: *See*—
Corn-picker. Cotton-picker.
Picker-stick friction-bunter. C. M. Stone. No. 1,341,394; May 25; v. 274; p. 723.
Picture hanger and hook remover. M. M. Ferguson. No. 1,339,444; May 11; v. 274; p. 223.
Picture machine, Motion-. J. P. Burnett. No. 1,341,108; May 25; v. 274; p. 667.
Picture machine, Motion-. C. J. Peterson. No. 1,338,695; May 4; v. 274; p. 9.
Picture machines, Equipment for moving-. R. N. Vyne. No. 1,341,527; May 25; v. 274; p. 748.
Picture-projecting machine, Motion-. W. H. Kelly. No. 1,341,467; May 25; v. 274; p. 737.
Pictures in colors, Method or apparatus for producing. B. D. Underhill. No. 1,340,923; May 25; v. 274; p. 631.
Pictures, plaques, etc., Support for. H. E. Green. No. 1,339,703; May 11; v. 274; p. 273.
Piles with concrete, Apparatus for covering submerged. F. M. White and H. E. Rieger. No. 1,339,535; May 11; v. 274; p. 240.
Piling, Reinforced-concrete. C. E. Nagel. No. 1,340,397; May 18; v. 274; p. 461.
Pin: *See*—
Corn-husker pin.
Pin and clasp, Combined safety-. C. Fisher. No. 1,340,533; May 18; v. 274; p. 486.
Pin-dispenser. B. S. Elrod. No. 1,339,503; May 11; v. 274; p. 234.
Pin tumbler-lock. F. E. Thompson. No. 1,340,804; May 18; v. 274; p. 538.
Pipe: *See*—
Tobacco-pipe.
Pipe and flange wrench. E. W. Orr. No. 1,341,069; May 25; v. 274; p. 660.
Pipe connection. P. P. Theisen. No. 1,341,086; May 25; v. 274; p. 663.
Pipe-cutter. J. F. Wright. No. 1,339,641; May 11; v. 274; p. 261.
Pipe-grip. D. E. Norris. No. 1,341,147; May 25; v. 274; p. 675.
Pipe-grip. S. Stone. No. 1,339,233; May 4; v. 274; p. 108.
Pipe-puller. J. T. Simmons. No. 1,340,676; May 18; v. 274; p. 514.
Pipe-supporting means C. M. Buller. No. 1,339,547; May 11; v. 274; p. 243.
Pipe-testing and leak-finding device. P. Meyer. No. 1,340,176; May 18; v. 274; p. 420.
Pipe-wrench. I. W. Nonneman. No. 1,340,622; May 18; v. 274; p. 504.
Pipe-wrench. A. Tüscher, Jr. No. 1,340,092; May 11; v. 274; p. 345.
Pipes, Fluid-tight joint for steam-. T. G. Tulloch. No. 1,339,636; May 11; v. 274; p. 260.
Pipes, Repair-plug for. G. T. Harvey. No. 1,340,167; May 18; v. 274; p. 418.
Pipettes, Holder and carrier for blood-. T. Lidberg. No. 1,340,660; May 18; v. 274; p. 511.
Piping system. S. W. Miller. No. 1,338,994; May 4; v. 274; p. 63.

Pistol. L. M. Egts. No. 1,339,949; May 11; v. 274; p. 319.
Pistol. H. L. Welch. No. 1,340,127. May 11; v. 274; p. 353.
Piston-centering device. J. A. Scott. No. 1,340,841; May 18; v. 274; p. 544.
Piston packing-ring. J. P. Deranek. No. 1,340,650; May 18; v. 274; p. 509.
Piston-rings, Making. A. A. Fosston. No. 1,340,037; May 11; v. 274; p. 335.
Piston, Steam-heated. A. D. Skinner. No. 1,339,629; May 11; v. 274; p. 259.
Pistons and piston-rods, Connecting means for. L. Sykes. No. 1,339,427; May 11; v. 274; p. 219.
Planer, Double-acting metal. C. A. Snider. No. 1,340,256; May 18; v. 274; p. 434.
Planter. E. W. Cole. No. 1,339,688; May 11; v. 274; p. 270.
Planter, Corn-. J. C. Powers. No. 1,339,576; May 11; v. 274; p. 248.
Plastic-block mold. E. J. Luttrell. No. 1,339,270; May 4; v. 274; p. 114.
Plastic composition. H. H. Dow. No. 1,339,552; May 11; v. 274; p. 244.
Plate-forming machine. M. O. Rehfuss. No. 1,341,589; May 25; v. 274; p. 760.
Plate-lifter. E. B. Killan. No. 1,341,371; May 25; v. 274; p. 718.
Plate-manipulator. F. C. Biggert, Jr. No. 1,340,594; May 18; v. 274; p. 499.
Platinum substitute in electrical terminals, Composition of matter for. F. A. Fahrenwald. No. 1,399,505; May 11; v. 274; p. 235.
Pliers. R. H. Owen. No. 1,341,193; May 25; v. 274; p. 684.
Pliers, Universal dental. W. G. Bridge. No. 1,341,107; May 25; v. 274; p. 667.
Plow. C. Kinney. No. 1,341,182; May 25; v. 274; p. 682.
Plow, Bucket. W. Watson. No. 1,339,371; May 4; v. 274; p. 133.
Plow or cultivator, Garden. J. G. Lundy. No. 1,340,784; May 18; v. 274; p. 534.
Plow-shovel, Reversible. C. H. Ingham and W. H. Wilcox. No. 1,340,392; May 18; v. 274; p. 460.
Plow, Tractor-. J. B. Mason. No. 1,339,603; May 11; v. 274; p. 254.
Plug, Attachment-. G. W. Goodridge. No. 1,340,856; May 18; v. 274; p. 547.
Plug, Separable attachment-. J. J. Kenney. No. 1,341,468; May 25; v. 274; p. 737.
Plug, Wall-. W. and C. Cordery. No. 1,340,752; May 18; v. 274; p. 528.
Plumbing device. C. Werner. No. 1,340,995; May 25; v. 274; p. 646.
Plunger. S. Ustrzycki and J. Bukola. No. 1,340,126; May 11; v. 274; p. 353.
Pneumatic drill. Z. Lambert. No. 1,339,565; May 11; v. 274; p. 246.
Pocket implement. W. R. Clough. No. 1,339,164; May 4; v. 274; p. 95.
Pocketed carrier. F. R. Batchelder. No. 1,340,141; May 18; v. 274; p. 413.
Pocketed carrier. F. R. Batchelder. No. 1,340,142; May 18; v. 274; p. 413.
Pole-setting device. J. H. Willis. No. 1,339,082; May 4; v. 274; p. 81.
Polysulfids and the products of such method, Stabilizing. D. Davidson. No. 1,338,678; May 4; v. 274; p. 6.
Popcorn-heater. L. H. Ruehle. No. 1,341,592; May 25; v. 274; p. 761.
Popcorn, Machine for making. T. Morgan. No. 1,339,662; May 11; v. 274; p. 265.
Poison-distributer. J. Een. No. 1,339,556; May 11; v. 274; p. 244.
Portable stand. W. Blasco. No. 1,340,708; May 11; v. 274; p. 349.
Portfolio-drawer. F. S. Braid. No. 1,340,319; May 18; v. 274; p. 445.
Post: *See*—
Traffic-post.
Post fastener, Corner-. M. B. Okun. No. 1,341,068; May 25; v. 274; p. 660.
Posthole-forming machine. J. G. Miller. No. 1,338,948; May 4; v. 274; p. 55.
Potash-reclaiming. H. W. Charlton. No. 1,341,110; May 25; v. 274; p. 668.
Potato-digger. L. A. Aspinwall. No. 1,341,454; May 25; v. 274; p. 735.
Potato-receptacle. C. E. Scott. No. 1,340,798; May 18; v. 274; p. 537.
Powder-dispensing device. H. G. Ingram and S. Goldberg. No. 1,341,174; May 25; v. 274; p. 680.
Powder, Explosive propellent. F. I. du Pont. No. 1,341,207; May 25; v. 274; p. 687.
Power device. S. C. Metzger. No. 1,340,620; May 18; v. 274; p. 503.
Power-drill. J. C. H. Vaught. No. 1,340,468; May 18; v. 274; p. 474.
Power plant. L. H. Dyer. No. 1,339,177; May 4; v. 274; p. 97.
Power-press. H. M. Lucas. No. 1,339,773; May 11; v. 274; p. 286.
Power-press. H. M. Lucas. No. 1,339,774; May 11; v. 274; p. 286.
Power-presses, Safety control for. M. C. France. No. 1,340,333; May 18; v. 274; p. 448.
Power-shovel. C. A. Pratt. No. 1,340,498; May 18; v. 274; p. 480.
Power-table driving machines, Guard for. J. D. Karle. No. 1,339,766; May 11; v. 274; p. 285.
Power transmission. J. K. Delano. No. 1,339,258; May 4; v. 274; p. 112.
Power transmission. G. C. Jessup. No. 1,338,832; May 4; v. 274; p. 34.
Power transmission. R. Lindbloom. No. 1,340,833; May 18; v. 274; p. 543.
Power transmission. J. G. P. Thomas. No. 1,341,223; May 25; v. 274; p. 689.
Power-transmission device. M. K. Ingoldby. No. 1,340,447; May 18; v. 274; p. 471.
Power-transmission machine. C. A. and H. M. Granzow. No. 1,338,767; May 4; v. 274; p. 22.
Press: *See*—
Hay-press. Power-press.
Offsetting-press.
Press. J. F. Comstock. No. 1,341,414; May 25; v. 274; p. 726.
Press. R. H. Gehrke. No. 1,339,193; May 4; v. 274; p. 100.
Pressing-machine. S. E. Baltary. No. 1,340,519; May 18; v. 274; p. 484.
Pressure-gage. O. Ohlson. No. 1,340,399; May 18; v. 274; p. 461.
Pressure-indicator. M. R. Buchanan. No. 1,341,542; May 25; v. 274; p. 751.
Priming-cup. W. W. Harris. No. 1,339,883; May 11; v. 274; p. 307.
Priming-cup. W. W. Harris. No. 1,339,884; May 11; p. 274; p. 307.
Priming device. P. J. McIntyre. No. 1,340,281; May 18; v. 274; p. 438.
Printers' forms, Locking means for. L. J. Reichel and W. L. Warner. No. 1,339,607; May 11; v. 274; p. 254.
Printing and inking device. H. G. Davis. No. 1,340,380; May 18; v. 274; p. 458.
Printing-block, Juvenile. C. Monteith. No. 1,340,072; May 11; v. 274; p. 342.
Printing-frame. D. F. Younkin. No. 1,338,894; May 4; v. 274; p. 45.
Printing-machine. S. A. Busk. No. 1,339,099; May 4; v. 274; p. 84.
Printing-machine. D. J. Scott and C. E. Drange. No. 1,339,526; May 11; v. 274; p. 230.
Printing machine, Check-. C. H. Sampson. No. 1,341,076; May 25; v. 274; p. 661.
Printing numbered bands. G. J. McClosky. No. 1,341,186; May 25; v. 274; p. 682.
Printing-plate, Intaglio. J. A. Corey. No. 1,339,741; May 11; v. 274; p. 280.
Printing-plates, Machine for casting, finishing, and cooling stereotype. H. A. W. Wood. No. 1,341,608; May 25; v. 274; p. 763.
Printing-plates, Manufacture of. E. E. Novotny. No. 1,339,127; May 4; v. 274; p. 90.
Printing-press impression-cylinder. J. J. Walser. No. 1,340,194; May 18; v. 274; p. 423.
Printing-press tripping mechanism. J. R. Blaine. No. 1,339,316; May 4; v. 274; p. 122.
Printing-presses, Hand-guard for. S. Kupfer. No. 1,338,780; May 4; v. 274; p. 25.
Printing-presses, Safety device for. H. A. W. Wood. No. 1,340,355; May 18; v. 274; p. 453.
Printing-surfaces, Art and apparatus for making. S. H. Horgan. No. 1,340,342; May 18; v. 274; p. 450.
Projectors, Focusing device for. J. W. Knoblock. No. 1,341,472; May 25; v. 274; p. 738.
Propeller-blades, Protector for. S. Heath. No. 1,339,886; May 11; v. 274; p. 307.
Protective device. E. B. Wedmore. No. 1,341,488; May 25; v. 274; p. 741.
Protective system. O. C. Traver. No. 1,341,486; May 25; v. 274; p. 741.
Puddle-balls and furnaces therefor, Making. F. F. Waechter. No. 1,340,690; May 18; v. 274; p. 517.
Puller: *See*—
Beet-puller. Stump-puller.
Pipe-puller.
Pulley-blocks. N. D. Levin. No. 1,339,931; May 11; v. 274; p. 316.
Pulley, Centrifugally-governed clutch-. G. D. Harris. (Reissue.) No. 14,857; May 18; v. 274; p. 549.
Pulley, Friction-clutch. A. E. Rhoades. No. 1,340,559; May 18; v. 274; p. 492.
Pulling and lifting device. S. Santino. No. 1,339,581; May 11; v. 274; p. 249.
Pulp heating and agitating apparatus. P. Somerville. No. 1,341,287; May 25; v. 274; p. 701.
Pulp, Magazine grinding apparatus for manufacture of wood-. P. C. Schaanning. No. 1,341,156; May 25; v. 274; p. 676.
Pulverized. J. T. Fowler. No. 1,339,950; May 11; v. 274; p. 319.
Pulverizer, Rotary. E. Cortese, M. Crespi, and A. Squassi. No. 1,339,499; May 11; v. 274; p. 234.
Pump. A. Boulade. No. 1,340,596; May 18; v. 274; p. 499.
Pump. A. Boulade. No. 1,340,597; May 18; v. 274; p. 499.

Pump. C. A. Criqui and E. T. Larkin. No. 1,339,500; May 11; v. 274; p. 234.
Pump. H. Jackson. No. 1,339,347; May 4; v. 274; p. 128.
Pump. G. P. Johnson. No. 1,339,563; May 11; v. 274; p. 246.
Pump. J. L. Johnson. No. 1,340,545; May 18; v. 274; p. 489.
Pump. A. Petrov. No. 1,341,194; May 25; v. 274; p. 684.
Pump. R. T. Windle. No. 1,340,130; May 11; v. 274; p. 354.
Pump, Air-. E. Griesbaum. No. 1,341,460; May 25; v. 274; p. 736.
Pump and compressor. J. Zwicky. No. 1,339,311; May 4; v. 274; p. 121.
Pump attachment, Motor-. B. D. Gilson. No. 1,340,389; May 18; v. 274; p. 459.
Pump, Centrifugal. R. N. Trane. No. 1,340,091; May 11; v. 274; p. 345.
Pump, Condenser system and vacuum-. J. F. Grace. No. 1,340,165; May 18; v. 274; p. 418.
Pump, Condensing and vacuum. S. Lippert. No. 1,339,402; May 11; v. 274; p. 215.
Pump connection, Tire-. J. B. McMullin. No. 1,340,785; May 18; v. 274; p. 534.
Pump-coupling. F. A. Lane. No. 1,338,739; May 4; v. 274; p. 17.
Pump, Deep-well. H. J. and W. R. Woock. No. 1,340,472; May 18; v. 274; p. 475.
Pump, Dispensing-. C. Hughel. No. 1,339,626; May 11; v. 274; p. 258.
Pump, Fluid-. G. Olson. No. 1,338,839; May 4; v. 274; p. 35.
Pump-operating mechanism, Oil-. D. R. Brown. No. 1,339,097; May 4; v. 274; p. 84.
Pump overflow-pan. K. J. W. Freitag and H. D. Ainsworth. No. 1,340,534; May 18; v. 274; p. 487.
Pump-piston. C. D. Brandt. No. 1,338,765; May 4; v. 274; p. 22.
Pump-piston. W. J. Coulson. No. 1,338,906; May 4; v. 274; p. 47.
Pump-plunger. A. S. Mackenzie. No. 1,338,943; May 4; v. 274; p. 54.
Pump, Pneumatic. H. S. Rogers. No. 1,339,224; May 4; v. 274; p. 106.
Pump, Rotary. A. E. Shiner. No. 1,340,632; May 18; v. 274; p. 506.
Pump, Rotary. J. H. Smith. No. 1,339,723; May 11; v. 274; p. 277.
Pump, Tire-. H. Taylor. No. 1,338,711; May 4; v. 274; p. 12.
Pumps, Constructing air-. A. M. Sonnichsen. No. 1,340,844; May 18; v. 274; p. 545.
Pumps, Sand-screen for. H. M. Green. No. 1,338,829; May 4; v. 274; p. 33.
Punch. P. W. and B. B. Britts. No. 1,338,969; May 4; v. 274; p. 58.
Punch, Center-. F. F. Komatar. No. 1,341,373; May 25; v. 274; p. 719.
Purifier. J. W. Roche. No. 1,339,980; May 11; v. 274; p. 325.
Pushcart. P. Gadbois. No. 1,341,013; May 25; v. 274; p. 649.
Puzzle. K. Yonemoto. No. 1,339,251; May 4; v. 274; p. 111.
Puzzle-ring and bracelet, &c. R. Brown. No. 1,338,973; May 4; v. 274; p. 59.
Pyrometer. W. Glaeser. No. 1,339,952; May 11; v. 274; p. 320.
Quick-break switch. A. K. Sutherland. No. 1,341,622; May 25; v. 274; p. 766.
Quick-opening separable fastener. G. Sundback. No. 1,340,187; May 18; v. 274; p. 422.
Rabble-blade. W. H. Sayre. No. 1,340,916; May 25; v. 274; p. 629.
Rack: *See*—
Developing-rack. Display-rack.
Radiator. E. C. Dennert. No. 1,340,382; May 18; v. 274; p. 458.
Radiator. S. W. Dyckman. No. 1,339,813; May 11; v. 274; p. 293.
Radiator. F. Johnson. No. 1,340,774; May 18; v. 274; p. 532.
Radiator. H. Sosskin. No. 1,338,753; May 4; v. 274; p. 19.
Radiator, Automobile-. J. E. Bryans. No. 1,351,165; May 25; v. 274; p. 678.
Radiator, Automobile-. J. W. Franz. No. 1,339,752; May 11; v. 274; p. 282.
Radiator-core plate. C. F. Spery. No. 1,340,258; May 18; v. 274; p. 434.
Radiator-cores, Machine for assembling. T. N. Coffelder. No. 1,339,434; May 11; v. 274; p. 221.
Radiator, Electric. C. V. Stevenson. No. 1,339,935; May 11; v. 274; p. 317.
Radiator-filling tubes, Combined cap and funnel for. G. C. Hurt. No. 1,339,562; May 11; v. 274; p. 245.
Radiator, Gas-. L. Cinq-Mars. No. 1,339,944; May 11; v. 274; p. 318.
Radiator systems, Heat-storing attachment for. E. V. Schranck and E. F. Kunkel. No. 1,338,750; May 4; v. 274; p. 19.
Radiator-tubes, Method and apparatus for manufacturing. F. G. Cooke. 1,339,104; May 4; v. 274; p. 85.
Radiators, Attachment for gas-engine. E. Ferriss. No. 1,341,419; May 25; v. 274; p. 727.
Radiators, Nipple-coupling for. V. R. O'Brien and W. N. Parks. No. 1,340,289; May 18; v. 274; p. 440.
Radiators, Temperature-indicator for automobile-. W. F. Jenkins. No. 1,340,830; May 18; v. 274; p. 542.
Radiators, Water-bag for filling automobile-. B. T. Sublett. No. 1,341,157; May 25; v. 274; p. 677.
Radiosignaling apparatus. F. Lowenstein. No. 1,339,772; May 11; v. 274; p. 286.
Radiosignaling, Apparatus for. R. A. Weagant. No. 1,338,889; May 4; v. 274; p. 44.
Radiotelegraphy. L. F. Fuller. No. 1,339,191; May 4; v. 274; p. 100.
Radium, Producing compounds of. H. O. Hedström. No. 1,338,831; May 4; v. 274; p. 33.
Rail. W. McClenahan. No. 1,340,454; May 18; v. 274; p. 472.
Rail-anchor. H. G. Gillmor. No. 1,340,135; May 11; v. 274; p. 355.
Rail-anchor. C. B. Moore. No. 1,339,123; May 4; v. 274; p. 89.
Rail-clamp. R. F. Brown. No. 1,340,598; May 18; v. 274; p. 499.
Rail-fastener. W. Sanowski. No. 1,339,718; May 11; v. 274; p. 276.
Rail-joint. E. F. Morris. No. 1,341,573; May 25; v. 274; p. 757.
Railway, Aerial. M. A. Aner. No. 1,338,663; May 4; v. 274; p. 3.
Railway-crossing. S. Balkwill. No. 1,340,265; May 18; v. 274; p. 425.
Railway-crossing. C. Clark. No. 1,340,750; May 18; v. 274; p. 527.
Railway-crossing. J. P. Houk. No. 1,341,320; May 25; v. 274; p. 708.
Railway-crosstie, Metallic. J. A. Hyle. No. 1,339,345; May 4; v. 274; p. 128.
Railway draft appliance. H. C. Buhoup. No. 1,339,020; May 4; v. 274; p. 68.
Railway-frog. B. J. Morgan. No. 1,338,786; May 4; v. 274; p. 26.
Railway rolling-stock, Buffer for. D. C. Davis. No. 1,339,743; May 11; v. 274; p. 280.
Railway safety control, Automatic. L. F. Hellmann and W. W. Baxter. No. 1,340,861; May 18; v. 274; p. 548.
Railway safety device. W. A. and C. N. Rockwell. No. 1,339,136; May 4; v. 274; p. 91.
Railway-switch. L. Harvey. No. 1,341,554; May 25; v. 274; p. 754.
Railway-switch. J. Toryowski. No. 1,340,992; May 25; v. 274; p. 645.
Railway-switch apparatus. C. A. Alden. No. 1,341,161; May 25; v. 274; p. 677.
Railway-tie. E. A. Priest. No. 1,341,587; May 25; v. 274; p. 760.
Railway-tie. M. W. Wambaugh. No. 1,341,090; May 25; v. 274; p. 664.
Railway-tie, Metallic. C. H. Swartwood. No. 1,339,301; May 4; v. 274; p. 119.
Railway-tracks, Machine for ballasting. D. J. Dobson. No. 1,338,681. May 4; v. 274; p. 6.
Railways, Joint-support for light. H. L. Stillman. No. 1,341,446; May 25; v. 274; p. 733.
Raisins, Preparing and packing. T. B. Hunter. No. 1,341,057; May 25; v. 274; p. 658.
Raisins, Purifying. B. T. Brooks. No. 1,340,873; May 25; v. 274; p. 622.
Rake. A. I. Conrad. No. 1,339,436; May 11; v. 274; p. 221.
Range. H. D. Schall. No. 1,338,870; May 4; v. 274; p. 41.
Range. H. D. Schall. No. 1,339,478; May 11; v. 274; p. 230.
Range. H. D. Schall. No. 1,340,986; May 25; v. 274; p. 644.
Range, Combination gas-. R. Lawa. No. 1,340,615; May 18; v. 274; p. 502.
Range, Combined solid and gaseous fuel. H. H. Sanford. No. 1,338,701; May 4; v. 274; p. 10.
Range-finder or telemeter. C. Hymans. No. 1,338,985; May 4; v. 274; p. 62.
Range-finding and like instrument. H. D. Taylor. No. 1,339,235; May 4; v. 274; p. 108.
Range finding and sighting instrument. P. Gerli and O. A. Ross. No. 1,339,450; May 11; v. 274; p. 224.
Reproducer. C. C. Shigley. No. 1,340,298. May 18; v. 274; p. 442.
Resawing-machine. Twin circular. J. A. Neal. No. 1,340,286; May 18; v. 274; p. 439.
Rat-trap. J. W. Richards. No. 1,339,135; May 4; v. 274; p. 91.
Ratchet-jack. J. C. Kopf. No. 1,339,377; May 4; v. 274; p. 134.
Ratchet-wrench, One-piece. W. Kaylor. No. 1,341,178; May 25; v. 274; p. 681.
Razor. J. L. Crawford. No. 1,338,908; May 4; v. 274; p. 48.
Razor-blade holder. C. W. Jones. No. 1,339,397; May 11; v. 274; p. 214.
Reamer-frame. R. S. MacEwan. No. 1,339,118; May 4; v. 274; p. 88.
Reamers, Making. O. Otterson. No. 1,341,436; May 25; v. 274; p. 731.

Receptacle. J. E. La Cerf. No. 1,339,899; May 11; v. 274; p. 310.
Receptacle or pocket and method of making same. V. H. Jennings. No. 1,338,776; May 4; v. 274; p. 24.
Receptacle-support. A. C. Axberg. No. 1,339,491; May 11; v. 274; p. 232.
Recorder: *See*—
Time-recorder.
Reed articles, Apparatus for producing woven-. M. B. Lloyd. No. 1,339,064; May 4; v. 274; p. 78.
Reed articles, Method and means for producing woven-. M. B. Lloyd. No. 1,339,063; May 4; v. 274; p. 77.
Reel: *See*—
Clothes-reel.
Film-reel.
Fishing-reel.
Hose-reel.
Winding-reel.
Reel-mount. C. W. Tillman. No. 1,339,238; May 4; v. 274; p. 109.
Reeling device. C. Reinhardt and A. Leibundgut. No. 1,340,981; May 25; v. 274; p. 643.
Refrigerating apparatus. A. P. Anderson. No. 1,340,646; May 18; v. 274; p. 508.
Refrigerating apparatus. R. B. Henderson and R. E. James. No. 1,339,622; May 11; v. 274; p. 257.
Refrigerating-machines, Safety device for use in connection with. F. A. Willcox. No. 1,339,244; May 4; v. 274; p. 110.
Refrigeration, Apparatus for. J. McCoy. No. 1,339,659; May 11; v. 274; p. 264.
Refrigerator-closure. J. W. Seifert. No. 1,340,084; May 11; v. 274; p. 344.
Refrigerator-lining. H. Gelke. No. 1,339,328; May 4; v. 274; p. 125.
Regenerating system. F. W. Meyer. No. 1,339,903; May 11; v. 274; p. 310.
Register: *See*—
Article-register.
Ticket-issuing register.
Regulating mechanism. J. M. Hopwood. No. 1,338,929; May 4; v. 274; p. 51.
Regulating system. F. H. Winter. No. 1,339,996; May 11; v. 274; p. 328.
Regulating system. W. R. Woodward. No. 1,338,718; May 4; v. 274; p. 13.
Regulation and apparatus therefor. J. M. Hopwood. No. 1,338,928; May 4; v. 274; p. 51.
Regulator: *See*—
Damper-regulator.
Electric-light.
Electric-motor regulator.
Electrical regulator.
Feed-water regulator.
Furnace-regulator.
Valve-regulator.
Resilient wheel. V. A. Walkup. No. 1,339,800; May 11; v. 274; p. 291.
Resonant converter. W. S. Lemmon. No. 1,340,963; May 25; v. 274; p. 639.
Rheostat, Liquid. A. J. Nicht, Jr. No. 1,340,241; May 18; v. 274; p. 432.
Ribbon movement. L. R. Roberts. No. 1,338,699; May 4; v. 274; p. 10.
Rifle-grenade sight. P. Lera. No. 1,340,453; May 18; v. 274; p. 471.
Rim, Demountable. W. I. Harp. No. 1,340,894; May 25; v. 274; p. 626.
Rim, Demountable. J. W. Higgins. No. 1,339,661; May 11; v. 274; p. 263.
Rim, Demountable. E. J. Osborne. No. 1,340,244; May 18; v. 274; p. 432.
Rim, Demountable. H. J. Parker. No. 1,340,977; May 25; v. 274; p. 642.
Rim, Demountable. J. S. Pierce. No. 1,340,671; May 18; v. 274; p. 513.
Rim, Demountable. L. P. Woodbury. No. 1,341,000; May 25; v. 274; p. 646.
Rim-fastening means. H. J. Foster. No. 1,341,118; May 25; v. 274; p. 669.
Ring: *See*—
Key-ring.
Napkin-ring.
Piston packing-ring.
Spring-ring.
Rivet-head catcher. H. J. Morley and G. L. Green. No. 1,340,787; May 18; v. 274; p. 534.
Rivet, Two-part self-locking. H. B. Hemingway. No. 1,339,197; May 4; v. 274; p. 101.
Riveting-machine and process of riveting. J. P. Badenhausen. No. 1,340,361; May 18; v. 274; p. 454.
Roadbeds, Apparatus for laying. R. E. Rodgers and T. C. Jackson. No. 1,339,069; May 4; v. 274; p. 78.
Roadway. L. P. Turner and J. R. Burrill. No. 1,338,801; May 4; v. 274; p. 28.
Roadways, Treating. S. E. Finley. No. 1,341,458; May 25; v. 274; p. 735.
Roasting-pan. S. A. Holloway. No. 1,339,625; May 11; v. 274; p. 258.
Rock-drill. W. A. Smith. No. 1,340,505; May 18; v. 274; p. 481.
Rock-drills when stuck, Device for pulling. G. Davidson. No. 1,339,024; May 4; v. 274; p. 69.
Rocker, Child's. J. A. Eberle. No. 1,341,303; May 25; v. 274; p. 705.
Rod: *See*—
Connecting-rod.
Rod-splicing clamp. B. M. Mathias. No. 1,338,746; May 4; v. 274; p. 18.
Roll-cooling means. T. D. Hodge. No. 1,339,108; May 4; v. 274; p. 86.
Roll-film carrier. O. C. Hummel. No. 1,340,957; May 25; v. 274; p. 638.
Roll-holder, cutter, and twine-holder, Combined. J. H. Reader. No. 1,340,132; May 11; v. 274; p. 354.
Roll, Seaming-. C. T. Small. No. 1,340,842; May 18; v. 274; p. 544.
Rollers and applying same, Cover for. W. H. Boldec. No. 1,341,612; May 25; v. 274; p. 764.
Rolling-mills, Apparatus for manipulating ingots, bars, and the like in. W. Williams. No. 1,340,129; May 11; v. 274; p. 354.
Rolling-stock, Apparatus for dismembering and assembling. J. A. Earley and J. L. Humphrey. No. 1,341,501; May 25; v. 274; p. 743.
Roof-bracket. P. P. Melanson. No. 1,340,492; May 18; v. 274; p. 479.
Roof-bracket, Adjustable. J. B. F. Showalter. No. 1,341,597; May 25; v. 274; p. 762.
Roofing. R. W. Blanton. No. 1,341,254; May 25; v. 274; p. 695.
Roofing element. C. E. Rahr. No. 1,340,347; May 18; v. 274; p. 451.
Roofing, Manufacturing prepared. S. M. Ford. No. 1,339,327; May 4; v. 274; p. 125.
Rope and cable attachment. T. C. Moore. No. 1,340,730; May 18; v. 274; p. 524.
Rope, Manufacture of wire. G. Pyburn. No. 1,341,003; May 25; v. 274; p. 647.
Rotary circuit-interrupter. H. O. Putt. No. 1,341,020; May 25; v. 274; p. 650.
Rotary device, Manually-operated. F. W. Drews. No. 1,340,026 May 11; v. 274; p. 333.
Rotary engine. A. McDonald. No. 1,341,332; May 25; v. 274; p. 710.
Rotary machine. B. R. Planche. No. 1,340,625; May 18; v. 274; p. 504.
Rubber and making same, Apparatus for vulcanizing. W. B. Burke. No. 1,339,736; May 11; v. 274; p. 279.
Rubber articles, Machine for making sheet-. R. A. Freeman. No. 1,340,884; May 25; v. 274; p. 624.
Rubber articles, Method of and apparatus for making. R. A. Freeman. No. 1,340,883; May 25; v. 274; p. 623.
Rubber articles, Removing tins from. R. Rothwell and W. H. Cuttrell. No. 1,339,789; May 11; v. 274; p. 289.
Rubber, Making articles from sheet-. R. A. Freeman. No. 1,340,882; May 25; v. 274; p. 623.
Rubber-mills and like machines, Guard for. L. Gaisman. No. 1,341,422; May 25; v. 274; p. 728.
Rubber waste, Apparatus for reclaiming. F. L. Kryder. No. 1,340,776; May 18; v. 274; p. 532.
Rubber waste, Reclaiming and regenerating. F. L. Kryder. No. 1,340,777; May 18; v. 274; p. 533.
Rug-drying device. R. J. Osborne. No. 1,339,784; May 11; v. 274; p. 288.
Rule. E. G. Rios. No. 1,338,962. May 4; v. 274; p. 57.
Rule, Linear counter-. P. G. Chamberlain. No. 1,339,644; May 11; x. 274; p. 262.
Rust-proofing compound. W. H. Allen. No. 1,341,100; May 25; v. 274; p. 666.
Saddle, Running-board. D. W. Hawksworth. No. 1,338,728; May 4; v. 274; p. 15.
Sadiron. O. Spahr. No. 1,340,257; May 18; v. 274; p. 434.
Safety-deposit box, Household. C. M. Cott. No. 1,340,377; May 18; v. 274; p. 457.
Safety device. W. F. Purcell. No. 1,338,867; May 4; v. 274; p. 40.
Salting-machine. P. W. Mackenrot. No. 1,339,212; May 4; v. 274; p. 104.
Salvaging apparatus. H. D. Deam. No. 1,338,816; May 4; v. 274; p. 31.
Salvaging apparatus. C. Sanger. No. 1,339,717; May 11; v. 274; p. 276.
Sand-pipes, Means for preventing clogging of. G. H. Johnson. No. 1,341,236; May 25; v. 274; p. 692.
Sanding device. P. W. Miles. No. 1,340,728; May 18; v. 274; p. 523.
Sanitary fixture. W. E. Hinsdale. No. 1,340,611; May 18; v. 274; p. 502.
Sanitation appliance. C. H. Henderson. No. 1,340,338; May 18; v. 274; p. 449.
Sash-lock. J. E. L'heureux. No. 1,339,362; May 4; v. 274; p. 131.
Sash-lock. H. Reinl. No. 1,339,670; May 11; v. 274; p. 267.
Sash-lock. B. Ruczynski. No. 1,340,462; May 18; v. 274; p. 473.
Sash-lock, Automatic. J. B. Horton. No. 1,341,234; May 25; v. 274; p. 692.
Sash-operating mechanism. W. A. Burnham. No. 1,338,671; May 4; v. 274; p. 4.
Sash operator, Window-. V. Cima. No. 1,339,879; May 11; v. 274; p. 306.
Saw attachment. A. O. Schaefer. No. 1,339,139; May 4; v. 274; p. 92.
Saw, Chain. C. Benefiel. No. 1,339,091; May 4; v. 274; p. 83.
Saw-filing machine. W. Bank. No. 1,339,153; May 4; v. 274; p. 93.
Saw-tooth. A. Westgard. No. 1,340,128; May 11; v. 274; p. 353.
Sawing machine, Tire-core-. J. C. Fiddyment. No. 1,339,815; May 11; v. 274; p. 294.
Sawmill attachment. W. H. Gilmour. No. 1,340,042; May 11; v. 274; p. 336.

Scaffold-bracket. H. O. Sederburg. No. 1,339,482; May 11; v. 274; p. 231.
Scaffold-hanging apparatus, Safety. J. Udovich. No. 1,340,191; May 18; v. 274; p. 422.
Scale. W. W. Boyd. No. 1,340,318; May 18; v. 274; p. 445.
Scale. J. Hopkinson. No. 1,339,759; May 11; v. 274; p. 283.
Scale, Auomatic weighing-. H. E. Earl. No. 1,339,326; May 4; v. 274; p. 124.
Scale for weighing mail-matter. F. W. McArdle. No. 1,340,280; May 18; v. 274; p. 438.
Scale, Weighing-. F. P. Dunn. No. 1,339,440; May 11; v. 274; p. 222.
Scale, Weighing-. C. H. Hapgood. No. 1,341,123; May 25; v. 274; p. 670.
Scissors. C. R. Storz. No. 1,339,797; May 11; v. 274; p. 290.
Scraper, Mechanical. J. A. Holland. No. 1,341,369; May 25; v. 274; p. 718.
Screen: *See*—
Adjustable screen.
Fly-screen.
Fur-screen.
Photo-engraver's screen.
Weather-screen.
Well-screen.
Window-screen.
Screen-door brace. C. A. Elliott. No. 1,340,161; May 18; v. 274; p. 417.
Screws and bolts, Lock-housing for. W. H. Toelle. No. 1,339,075; May 4; v. 274; p. 80.
Screws, Means for measuring the pitch of. W. Bolton and E. T. Bishop. No. 1,338,670; May 4; v. 274; p. 4.
Scrub-brushes, Soap-holding attachment for. H. E. Adams. No. 1,338,665; May 4; v. 274; p. 3.
Sealing composition. T. C. Wester. No. 1,341,490; May 25; v. 274; p. 742.
Seals, Means for applying crown-. H. C. Beste. No. 1,341,163; May 25; v. 274; p. 678.
Seat: *See*—
Cushion-seat.
Nursery-seat.
Spring-seat.
Seat-support. F. M. Crabill. No. 1,340,753; May 18; v. 274; p. 528.
Seats, Attachment for automobile-. J. H. Deering. No. 1,340,754; May 18; v. 274; p. 528.
Seeding apparatus. R. H. Griswold and A. W. Hammond. No. 1,340,654; May 18; v. 274; p. 510.
Separator: *See*—
Cranberry-separator.
Cream-separator.
Dust-separator.
Separators, Adjustable sleeve for. D. E. Hoffman. No. 1,339,560; May 11; v. 274; p. 245.
Service apparatus, Prepay time-controlled-. W. H. Thompson. No. 1,339,634; May 11; v. 274; p. 260.
Settling-basin-separating device. C. Allen. No. 1,339,682; May 11; v. 274; p. 269.
Sewage and other liquids, Purification of. W. Jones. No. 1,341,561; May 25; v. 274; p. 755.
Sewer-block. J. E. Ulm. No. 1,338,885; May 4; v. 274; p. 43.
Sewer-pipe, Automatic and intermittent brander for socket. C. Batliner. No. 1,340,929; May 25; v. 274; p. 632.
Sewer-pipes, Automatic and intermittent brander for socket. J. E. Minter. No. 1,340,969; May 25; v 274; p. 640.
Sewing-machine. K. Vesely. No. 1,339,243; May 4; v. 274; p. 109.
Sewing-machine attachment, Shoe-. A. G. Malmberg. No. 1,341,570; May 25; v. 274; p. 757.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,339,732; May 11; v. 274; p. 278.
Sewing machine, Inseam shoe-. J. E. Thayer. No. 1,339,633; May 11; v. 274; p. 259.
Sewing machine, Shoe-. A. Eppler. No. 1,339,645; May 11; v. 274; p. 262.
Sewing machine, Shoe-. A. Latham. No. 1,341,061; May 25; v. 274; p. 658.
Sewing-machine, Triple-seam. A. H. Wels. No. 1,341,448; May 25; v. 274; p. 733.
Sewing-machine, Wax-thread. W. C. Meyer. No. 1,341,035; May 25; v. 274; p. 659.
Sewing-machines, Feed mechanism for. A. D. Smith. No. 1,341,388; May 25; v. 274; p. 721.
Sewing-machines, Folder or seam-opener for. W. J. Loggie. No. 1,340,782; May 18; v. 274; p. 533.
Sewing-machines, Hemming and trimming attachments for. H. Corrall and J. Heggie. No. 1,339,742; May 11; v. 274; p. 280.
Sewing-machines, Motor control for. W. Forsberg. No. 1,339,817; May 11; v. 274; p. 294.
Sewing-machines, Presser-foot for. J. R. Moffatt. No. 1,339,121; May 4; v. 274; p. 89.
Sewing-machines, Presser-foot mechanism for blindstitch. T. J. Hayes. No. 1,341,233; May 25; v. 274; p. 691.
Sewing-machines, Stocking-guide for. J. L. Stengel. No. 1,339,230; May 4; v. 274; p. 107.
Sewing-machines, Thread-controlling mechanism for. E. B. Allen. No. 1,339,733; May 11; v. 274; p. 278.
Sextant. A. Hughes. No. 1,339,342; May 4; v. 274; p. 128.
Shade and curtain-pole bracket, Window-. W. F. Kasbohm. No. 1,341,562; May 25; v. 274; p. 755.
Shade bracket, Window-. H. W. Smith. No. 1,341,025; May 25; v. 274; p. 651.
Shade-roller, Adjustable. E. L. Flemming. No. 1,341,051; May 25; v. 274; p. 656.
Shade spring-adjuster, Window-. C. H. Wise. No. 1,341,530; May 25; v. 274; p. 749.
Shaft-aligning device. L. B. Cobb. No. 1,339,919; May 11; v. 274; p. 313.
Shaft-coupling. W. E. Schwarzman and F. D. Norman. No. 1,338,751; May 4; v. 274; p. 19.
Shaft-guard. A. G. Scism. No. 1,341,595; May 25; v. 274; p. 761.
Shaft-oscillator. J. R. Kenney. No. 1,339,897; May 11; v. 274; p. 309.
Sharpener, Disk-. J. J. Schmidt. No. 1,339,043; May 4; v. 274; p. 73.
Sharpening or honing ordinary or safety razors, blades, or other light cutting-tools, Device for. H. Watson. No. 1,340,509; May 18; v. 274; p. 482.
Sharpening pick, Millstone-. J. T. Whitener. No. 1,340,589; May 18; v. 274; p. 498.
Sheaf-loader container. R. B. Mason. No. 1,341,239; May 25; v. 274; p. 692.
Shears, Grass-border. H. B. Scott. No. 1,338,873; May 4; v. 274; p. 41.
Sheet, Guide-line. E. M. Africa. No. 1,340,100; May 11; v. 274; p. 347.
Sheet-metal wheel. H. J. Foster and E. Gruenfeldt. No. 1,340,220; May 18; v. 274; p. 428.
Sheet-registering device. H. E. Leonard. No. 1,340,723; May 18; v. 274; p. 522.
Sheet-registering machine. H. E. Leonard. No. 1,340,722; May 18; v. 274; p. 522.
Shell, Explosive. F. H. Barker and G. T. Buckham. No. 1,340,871; May 25; v. 274; p. 621.
Shell for machine-guns. M. A. Walker. No. 1,338,802; May 4; v. 274; p. 29.
Shell, Shot-gun. H. T. Peck. No. 1,340,245; May 18; v. 274; p. 432.
Shells, Detonator for high-explosive. E. Gathmann. No. 1,340,536. May 18; v. 274; p. 487.
Shingle-holding device. J. Jansma. No. 1,339,458; May 11; v. 274; p. 224.
Shingle, Roof-. C. E. Rahr. No. 1,340,348; May 18; v. 274; p. 451.
Shingle-strips, Making. F. C. Overbury. No. 1,340,402; May 18; v. 274; p. 462.
Ship-tender. Y. Nakabayashi. No. 1,339,663; May 11; v. 274; p. 265.
Ship-launching control device. J. G. Sjoberg. No. 1,339,293; May 4; v. 274; p. 118.
Ship-protecting device. E. A. Smith. No. 1,338,706; May 4; v. 274; p. 11.
Ship-steering apparatus. P. A. Johnson. No. 1,339,850; May 11; v. 274; p. 300.
Ships against torpedo attack, Protection of. L. E. Whiton. No. 1,339,372; May 4; v. 274; p. 133.
Ship's-hull construction. F. W. Gore. No. 1,339,755; May 11; v. 274; p. 283.
Ships or other structures, Supporting of outside staging used during the construction of. G. W. MacIlwaine. No. 1,341,335; May 25; v. 274; p. 711.
Ships, Towing device for use with. C. V. Usborne. No. 1,340,924; May 25; v. 274; p. 631.
Shipbuilding, Bevel-square for. K. O. Olsen. No. 1,341,435; May 25; v. 274; p. 730.
Shipping apparatus, Vehicle-. R. Z. Hopkins. No. 1,339,890; May 11; v. 274; p. 308.
Shock-absorber. E. E. McCollum. No. 1,341,274; May 25; v. 274; p. 699.
Shock-absorber. R. C. Morey. No. 1,339,780; May 11; v. 274; p. 287.
Shock-absorber. G. A. Starkweather. No. 1,339,484; May 11; v. 274; p. 231.
Shock-absorber. L. D. Sutton. No. 1,341,395; May 25; v. 274; p. 723.
Shock-absorber for vehicles. W. N. Amory. No. 1,341,407; May 25; v. 274; p. 725.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,341,150; May 25; v. 274; p. 675.
Shocker. J. H. Prall. No. 1,341,586; May 25; v 274; p. 760.
Shocking-machine attachment. W. H. Church. No. 1,341,167; May 25; v. 274; p. 678.
Shoe. W. M. Jessup. No. 1,341,323; May 25; v. 274; p. 708.
Shoe-button remover. J. Vertunni and O. S. Eller. No. 1,341,203; May 25; v. 274; p. 686.
Shoe-dauber. J. F. Kelly. No. 1,340,775; May 18; v. 274; p. 532.
Shoe-holder. J. M. McCray. No. 1,339,520; May 11; v. 274; p. 238.
Shoe-insole. Z. J. Montgomery. No. 1,340,906; May 25; v. 274; p. 628.
Shoe-lace tip. J. Pavelka. No. 1,340,669; May 18; v. 274; p. 513.
Shoe, Laced. A. L. Schopper. No. 1,340,503; May 18; v. 274; p. 481.
Shoe-machine. O. R. Angell. No. 1,339,591; May 11; v. 274; p. 251.
Shoe or sandal, Wooden. P. Demarmels and A. Winkler. No. 1,341,498; May 25; v. 274; p. 743.
Shoe, Spudding-. W. L. Settle. No. 1,340,420; May 18; v. 274; p. 466.

Shoe-stretcher. H. Waters. No. 1,340,994; May 25; v. 274; p. 645.
Shoe-uppers, Machine for lacing. H. E. Enslin. No. 1,338,910; May 4; v. 274; p. 48.
Shoe, Wooden-sole working-. G. W. Miller. No. 1,338,947; May 4; v. 274; p. 55.
Shop-control system. J. F. Diepenbrock. No. 1,340,216; May 18; v. 274; p. 427.
Shopping-bag. E. Wisniewska. No. 1,341,404; May 25; v. 274; p. 724.
Shorthand-machine. W. S. Ireland. No. 1,339,346; May 4; v. 274; p. 128.
Shovel: *See*—
Plow-shovel
Power-shovel.
Shutter, Kinetoscopic. J. F. Gordon. No. 1,340,887; May 25; v. 274; p. 624.
Shuttle. J. C. Shambow. No. 1,340,568; May 18; v. 274; p. 493.
Shuttle, Pick take-up. A. R. Eanes, Jr. No. 1,338,820; May 4; v. 274; p. 32.
Shuttle-tension. R. E. Enos. No. 1,340,330; May 18; v. 274; p. 448.
Shuttle-tip fastener. M. Mitchell. No. 1,339,572; May 11; v. 274; p. 248.
Sickle-bar. W. F. Aidiotte. No. 1,340,868; May 25; v. 274; p. 621.
Sign, Electric. M. E. Launbranch. No. 1,339,566; May 11; v. 274; p. 246.
Sign, Illuminated. J. G. Arnold. No. 1,341,251; May 25; v. 274; p. 694.
Signal: *See*—
Automobile-signal.
Vehicle-signal.
Train-signal.
Signal. D. E. Blair and D. K. Macleod. No. 1,339,685; May 11; v. 274; p. 270.
Signal actuator, Traffic-. J. M. Middlebrooks. No. 1,339,660; May 11; v. 274; p. 265.
Signal apparatus. C. H. Morrison and F. H. Nicholson. No. 1,340,970; May 25; v. 274; p. 640.
Signal device for motor-vehicles. J. M. Rice. No. 1,340,292; May 18; v. 274; p. 440.
Signals, Circuit-closer for automobile-. I. J. Kissell. No. 1,341,572; May 25; v. 274; p. 719.
Signaling-boiler. M. Kelley. No. 1,339,350; May 4; v. 274; p. 129.
Signaling, Light-. A. Ames, Jr. No. 1,339,085; May 4; v. 274; p. 81.
Signaling system. G. D. Edwards. No. 1,340,942; May 25; v. 274; p. 635.
Silencer and flash-obscurer. A. Fiala. No. 1,341,363; May 25; v. 274; p. 717.
Silk waste, Spinning artificial-. W. R. D. Hall. No. 1,340,044; May 11; v. 274; p. 337.
Silo. F. W. Gross. No. 1,340,890; May 25; v. 274; p. 625.
Silo-brace. B. Gibson and A. Fuller. No. 1,339,701; May 11; v. 274; p. 273.
Silo-heater. A. J. Johnson. No. 1,340,718; May 18; v. 274; p. 521.
Single-roll crusher. W. K. Liggett. No. 1,339,932; May 11; v. 274; p. 316.
Single-roll crusher. W. K. Liggett. No. 1,339,933; May 11; v. 274; p. 316.
Sizing or separating apparatus. W. E. Bryan. No. 1,339,161; May 4; v. 274; p. 95.
Skate, Mechanical roller-. A. Chiarelli. No. 1,338,813; May 4; v. 274; p. 30.
Sketching-pad, Loose-leaf. A. R. Nadel. No. 1,338,951; May 4; v. 274; p. 56.
Skiving-machine. C. A. Bliss. No. 1,341,164; May 25; v. 274; p. 678.
Skylight illuminating device. L. X. Champeau. No. 1,341,259; May 25; v. 274; p. 696.
Slack-adjuster. W. W. Hunziker. No. 1,341,321; May 25; v. 274; p. 708.
Sled shoe and runner protector. J. Thibault. No. 1,341,087; May 25; v. 274; p. 663.
Sleigh-carrier. W. L. Paddon. No. 1,339,861; May 11; v. 274; p. 303.
Slicing-machine. C. F. M. van Berkel. No. 1,339,590; May 11; v. 274; p. 251.
Slicing-machine. J. Folk. No. 1,340,219; May 18; v.
Slicing-machine attachment. J. H. McLaughlin. No. 1,339,901; May 1; v. 274; p. 310. 274; p. 427.
Slicing-machines, Operating mechanism for. E. K. Hood. No. 1,340,829; May 18; v. 274; p. 542.
Slime-pulp thickener. C. Allen. No. 1,339,684; May 11; v. 274; p. 269.
Smelting tin and other ores. J. H. Gray. No. 1,340,951; May 25; v. 274; p. 636.
Smoke, Colored. E. C. Weisgerber. No. 1,339,142; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,143; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,144; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,145; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,146; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,147; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,148; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,149; May 4; v. 274; p. 93.
Smoke, Colored. E. C. Weisgerber. No. 1,339,150; May 4; v. 274; p. 93.
Snap-fastener. F. S. Carr. No. 1,341,043; May 25; v. 274; p. 655.
Snap-fasteners, Machine for making. O. Soderstrom and W. Fuhrmann. No. 1,340,634; May 18; v. 274; p. 506.
Snow, Apparatus for melting. S. Savonius. No. 1,339,719; May 11; v. 274; p. 276.
Snow cleaning and melting machine. M. S. Arapis. No. 1,341,005; May 25; v. 274; p. 647.
Snowplow. O. Berry. No. 1,340,263; May 18; v. 274; p. 435.
Soap-bubble device. M. G. Dobbins. No. 1,340,758; May 18; v. 274; p. 529.
Soap-container. W. A. Collins. No. 1,339,166; May 4; v. 274; p. 96.
Soap-dish. T. R. Conner. No. 1,340,327; May 18; v. 274; p. 447.
Soap-making apparatus. H. J. Nicholls. No. 1,339,126; May 4; v. 274; p. 90.
Socket, Plural. D. D. Gordon. No. 1,341,054; May 25; v. 274; p. 657.
Sodium silicate, Dissolving. E. A. Taylor. No. 1,341,288; May 25; v. 274; p. 702.
Softening apparatus. B. S. Lee. No. 1,341,183; May 25; v. 274; p. 682.
Solder for aluminum. R. A. Jacobsen. No. 1,341,508; May 25; v. 274; p. 745.
Solder, Manufacturing. E. E. P. J. P. S. J. de St. Laurent. No. 1,338,966; May 4; v. 274; p. 58.
Soldering, Electric. H. K. Parsons and H. H. Styll. No. 1,340,736; May 18; v. 274; p. 525.
Soldering-machines. M. E. Widell. No. 1,338,716; May 4; v. 274; p. 13.
Soldering-tool, Hand. S. Davies. No. 1,341,497; May 25; v. 274; p. 743.
Sole. H. K. Hitchcock. No. 1,340,341; May 18; v. 274; p. 450.
Sole-fitting machine. F. H. Perry. No. 1,338,957; May 4; v. 274; p. 57.
Sorting apparatus. G. S. Heienbolt. No. 1,338,729; May 4; v. 274; p. 15.
Sound-box. F. Cheney. No. 1,339,809; May 11; v. 274; p. 293.
Sound-box. E. T. Turney. No. 1,340,854; May 18; v. 274; p. 547.
Sound-box, Floating-weight. E. Cassea. No. 1,340,436; May 18; v. 274; p. 469.
Sound-producing apparatus. J. Björnstad. No. 1,339,158; May 4; v. 274; p. 94.
Sound recording and reproducing machine. A. Cortella. No. 1,341,011; May 25; v. 274; p. 649.
Sound-reproducing instruments, Record-repeating device for. R. P. Christensen. No. 1,340,524; May 18; v. 274; p. 485.
Sound-reproducing machines, Record-repeating device for. R. P. Christensen. No. 1,340,525; May 18; v. 274; p. 485.
Spacing device. G. H. Tod and E. H. Beck. No. 1,338,800; May 4; v. 274; p. 28.
Spark-arrester. S. S. Caskey. No. 1,339,495; May 11; v. 274; p. 233.
Spark-arresting device. F. L. Connable. No. 1,339,498; May 11; v. 274; p. 233.
Spark-coil. J. F. Cavanagh. No. 1,339,100; May 4; v. 274; p. 84.
Spark-coil-testing apparatus. E. C. Ballman. No. 1,339,804; May 11; v. 274; p. 292.
Spark-gap device. R. F. Van Meter. No. 1,341,348; May 25; v. 274; p. 714.
Spark-plug. J. Brooks. No. 1,340,116; May 11; v. 274; p. 351.
Spark-plug. A. J. Champion. No. 1,338,674; May 4; v. 274; p. 5.
Spark-plug. W. H. Cotton. No. 1,340,526; May 18; v. 274; p. 485.
Spark-plug. C. H. Duffy. (Reissue.) No. 14,862; May 25; v. 274; p. 767.
Spark-plug. F. Hachmann. No. 1,341,614; May 25; v. 274; p. 765.
Spark-plug. E. M. Johnson. No. 1,341,058; May 25; v. 274; p. 658.
Spark-plug. A. Klever. No. 1,340,899; May 25; v. 274; p. 627.
Spark-plug. L. F. Landa. No. 1,340,232; May 18; v. 274; p. 430.
Spark-plug. A. E. C. and E. W. M. Lockewitz. No. 1,339,463; May 11; v. 274; p. 227.
Spark-plug. E. Rogers. No. 1,340,674; May 18; v. 274; p. 514.
Spark-plug. C. C. Snodgrass. No. 1,341,221; May 25; v. 274; p. 689.
Spark-plug. G. L. Truesdell. No. 1,339,429; May 4; v. 274; p. 220.
Sparking-plug. W. G. Clayton. No. 1,340,878; May 25; v. 274; p. 623.
Spray-nozzle. T. W. Murphy and W. Czarnecki. No. 1,340,136; May 11; v. 274; p. 355.
Spraying apparatus. H. Barber. No. 1,339,382; May 11; v. 274; p. 211.
Spear and cutter, Combination. J. F. Hill. No. 1,338,773; May 4; v. 274; p. 23.

Speed-control equipment, Automatic. W. V. Turner. No. 1,339,677; May 11; v. 274; p. 268.
Spindle: *See*—
Ball-bearing spindle.
Tool-carrying spindle.
Spindle. C. A. Proulx. No. 1,341,479; May 25; v. 274; p. 740.
Spindle and casing for music-rolls, Combined. M. B. Peal. (Reissue.) No. 14,860; May 18; v. 274; p. 550.
Spindle, Ball-bearing. T. M. Prudden. No. 1,341,019; May 25; v. 274; p. 650.
Spinning-frames, Doffing mechanism for. S. Ambler. No. 1,339,803; May 11; v. 274; p. 291.
Splash guard, Side-. C. W. Brown. No. 1,341,008; May 25; v. 274; p. 648.
Splint, Arm-abduction. R. D. Maddox. No. 1,340,630; May 18; v. 274; p. 505.
Spool, Insulating collector or distributer. L. Steinberger. No. 1,339,988; May 11; v. 274; p. 326.
Spout, Pouring-. C. H. Nowack. No. 1,340,242; May 18; v. 274; p. 432.
Spring: *See*—
Automobile-spring.
Vehicle-spring.
Bed-spring.
Spring fabric. H. J. Willems. No. 1,339,802; May 11; v. 274; p. 291.
Spring-gripping device. H. Bishop. No. 1,339,843; May 11; v. 274; p. 299.
Spring-operated mechanism. C. E. Anderson. No. 1,340,000; May 11; v. 274; p. 329.
Spring-pressure-regulating device. W. A. Van Brunt. No. 1,340,581; May 18; v. 274; p. 496.
Spring-ring. F. A. Ballou, Jr. No. 1,340,206; May 18; v. 274; p. 425.
Spring saddle and shock-absorber. C. M. Mohler. No. 1,339,779; May 11; v. 274; p. 287.
Spring-seat. O. E. Hershey. No. 1,341,555; May 25; v. 274; p. 754.
Spring-trap. C. Schroeder. No. 1,339,481; May 11; v. 274; p. 230.
Spring-wheel. M. Levy. No. 1,339,361; May 4; v. 274; p. 131.
Spring-wheel. T. N. Petrovic. No. 1,339,132; May 4; v. 274; p. 91.
Sprinkler: *See*—
Half-spray sprinkler.
Square, Foldable. S. O. Thorell. No. 1,340,125; May 11; v. 274; p. 353.
Squeezer. S. E. Creasey. No. 1,341,496; May 25; v. 274; p. 743.
Stable-cleaning means. E. W. Bascom. No. 1,339,089. May 4; v. 274; p. 82.
Stage illusion effect. F. J. Oebbecke. No. 1,339,279; May 4; v. 274; p. 116.
Staging. F. C. Milton. No. 1,339,661; May 11; v. 274; p. 265.
Stair-tread. C. E. Oliver. No. 1,340,243; May 18; v. 274; p. 432.
Stamp-affixing machine. W. J. Davis. No. 1,338,978; May 4; v. 274; p. 60.
Stamp, Dating-. F. M. Shafer. No. 1,340,122; May 11; v. 274; p. 352.
Stamping-machine. F. B. Wischhusen. No. 1,339,050; May 4; v. 274; p. 75.
Stand: *See*—
Clothes and hat stand.
Portable stand.
Collapsible stand.
Watch-stand.
Motor-repair stand.
Stand for rolled material, Delivery-. S. M. Langston. No. 1,339,460; May 11; v. 274; p. 226.
Standpipe. H. E. Thompson, R. B. Linsley, and M. H. Rix. No. 1,338,846; May 4; v. 274; p. 36.
Stationery appliance. E. P. Beckwith. No. 1,339,155; May 4; v. 274; p. 94.
Steam-boiler. E. R. Morrison. (Reissue.) No. 14,859; May 18; v. 274; p. 550.
Steam-engine. L. Skinner. No. 1,339,630; May 11; v. 274; p. 259.
Steam-trap. F. B. Jones. No. 1,340,958; May 25; v. 274; p. 638.
Steam-trap. W. R. Templeton. No. 1,341,027; May 25; v. 274; p. 652.
Steel sheets, Manufacture of. V. B. Browne. No. 1,340,149; May 18; v. 274; p. 415.
Steels and iron, Composition of matter for use in welding. E. D. Kendall. No. 1,338,736; May 4; v. 274; p. 16.
Steering apparatus, Gear reduction and lock for. N. Hall. No. 1,339,454; May 11; v. 274; p. 225.
Steering device. N. Small. No. 1,339,294; May 4; v. 274; p. 118.
Steering device. C. Walters, Jr. No. 1,339,048; May 4; v. 274; p. 74.
Steering mechanism. J. N. Kelly. No. 1,341,326; May 25; v. 274; p. 709.
Steering-wheel. W. H. Appleby. No. 1,341,632; May 25; v. 274; p. 652.
Steering-wheel and lock, Adjustable. F. W. Vodoz. No. 1,340,638; May 18; v. 274; p. 507.
Stencil-machine. L. A. Wernery. No. 1,341,402; May 25; v. 274; p. 724.
Stereotype-plates, Machine for casting and finishing tubular. C. E. Hopkins. No. 1,341,557; May 25; v. 274; p. 754.
Stethoscope, Motor-. O. Smiley. No. 1,340,299; May 18; v. 274; p. 442.
Stethoscope, Motor-. O. Smiley. No. 1,340,300; May 18; v. 274; p. 442.
Stirrup, Pump-. C. D. Brandt. No. 1,339,943; May 11; v. 274; p. 318.
Stitches, Feeding device for producing spiral. H. Adler. No. 1,340,099; May 11; v. 274; p. 347.
Stoker, Mechanical. E. S. Wallen. No. 1,339,531; May 11; v. 274; p. 240.
Stone with outer and inner, vertical and horizontal through-canals, Mold for casting artificial building-. H. Grönroos. No. 1,340,952; May 25; v. 274; p. 636.
Stop, Automatic safety-. H. C. Taylor. No. 1,340,305; May 18; v. 274; p. 443.
Stop device. F. Bauer. No. 1,339,052; May 4; v. 274; p. 75.
Stop mechanism. R. L. Campbell. No. 1,340,152; May 18; v. 274; p. 415.
Stopper: *See*—
Bottle-stopper.
Flue-stopper.
Stopping device. A. Pogany. No. 1,339,474; May 11; v. 274; p. 229.
Storage battery. P. D. Ivey and A. J. Salisbury. No. 1,340,269; May 18; v. 274; p. 436.
Storage battery. N. D. Sturges. No. 1,340,636; May 18; v. 274; p. 507.
Storage battery. N. D. Sturges. No. 1,340,637; May 18; v. 274; p. 507.
Storage of energy due to an explosion. G. Constantinesco and J. R. Middleton. No. 1,338,676; May 4; v. 274; p. 5.
Stove. J. Bilan. No. 1,340,367; May 18; v. 274; p. 455.
Stove. C. G. Terry. No. 1,341,623; May 25; v. 274; p. 766.
Stove, Alcohol-. J. Grochmal. No. 1,339,059; May 4; v. 274; p. 77.
Stove attachment. B. Lucas. No. 1,339,268; May 4; v. 274; p. 114.
Stove, Gas-. D. N. Gross. No. 1,339,618; May 11; v. 274; p. 257.
Stove, Gas-. H. W. O'Dowd. No. 1,340,666; May 18; v. 274; p. 512.
Stove, Heating-. E. O. Parr. No. 1,339,039; May 4; v. 274; p. 72.
Stove-legs, Caster attachment for. J. O. Sabon. No. 1,341,384; May 25; v. 274; p. 721.
Stove, Oil heating-. W. C. Lindemann. No. 1,339,208; May 4; v. 274; p. 103.
Stove, Portable cooking-. M. L. Seymour. No. 1,340,421; May 18; v. 274; p. 466.
Strainer. R. S. Clarke. No. 1,340,599; May 18; v. 274; p. 499.
Strainer. A. J. E. Munters. No. 1,339,037; May 4; v. 274; p. 72.
Strainer and can-filler, Automatic. J. A. Fraser. No. 1,341,119; May 25; v. 274; p. 669.
Strainer, Teapot-. D. V. Strong. No. 1,339,008; May 4; v. 274; p. 66.
Strap and fastening. F. W. Thorne. No. 1,340,350; May 18; v. 274; p. 452.
Stretcher. M. V. Hubbard. No. 1,338,774; May 4; v. 274; p. 24.
Stringed instruments, Tuning-peg for. B. Poehland. No. 1,339,418. May 11; v. 274; p. 218.
Structural bar. K. R. Schuster. No. 1,339,226; May 4; v. 274; p. 107.
Structure, Cylindrical. T. B. Pearson. No. 1,339,862; May 11; v. 274; p. 303.
Stump-puller. C. D. Pace. No. 1,339,666; May 11; v. 274; p. 266.
Stump puller and plier. W. M. and J. H. Jones. No. 1,341,176; May 25; v. 274; p. 680.
Sucker-rod elevator. W. H. Burstall and W. Adamson. No. 1,341,166; May 25; v. 274; p. 678.
Sulfates, Making ethyl. H. R. Curme. No. 1,339,947; May 11; v. 274; p. 319.
Sulfite liquor, Apparatus for regulating the acidity of. J. B. Crandon. No. 1,341,361; May 25; v. 274; p. 716.
Sulfite liquor, Regulating the acidity of. J. B. Crandon. No. 1,340,649; May 18; v. 274; p. 509.
Sulfur chlorid, Making. R. E. Gegenheimer and M. Mauran. No. 1,341,423; May 25; v. 274; p. 728.
Sulfur dioxid from gases, Apparatus for recovering. A. H. Eustis. No. 1,341,115; May 25; v. 274; p. 668.
Sulfur dioxid from gases, Recovering. A. H. Eustis. No. 1,341,114; May 25; v. 274; p. 668.
Superfloor structure. A. A. McPheeters. No. 1,341,187; May 25; v. 274; p. 683.
Superheater. J. S. Nichols. No. 1,340,074; May 11; v. 274; p. 342.
Superheater-header. B. Broido. No. 1,338,972; May 4; v. 274; p. 59.
Support. J. Dotti and H. G. Hart. No. 1,341,113; May 25; v. 274; p. 668.
Surgical appliance. L. O. Roberts. No. 1,340,501; May 18; v. 274; p. 481.
Surgical bandage heater and wringer. W. Jennings. No. 1,340,772; May 18; v. 274; p. 532.
Surveying instruments, Locking device for. C. Heinrich. No. 1,341,210; May 25; v. 274; p. 687.
Suspender-link. J. F. Bear. No. 1,338,850; May 4; v. 274; p. 37.
Suspender-link. J. F. Bear. No. 1,341,033; May 25; v. 274; p. 653.
Suspenders and belt, Combination. T. H. McQuinn. No. 1,341,568; May 25; v. 274; p. 756.

Swagger-stick. J. M. Callahan. No. 1,339,162; May 4; v. 274; p. 95.
Swagger-stick. J. M. Callahan. No. 1,339,257; May 4; v. 274; p. 112.
Swagger-stick. E. L. Yungk. No. 1,340,746; May 18; v. 274; p. 527.
Swaging-machine for making U-shaped pipe-bends. C. A. W. Brandt and A. J. Langelier. No. 1,339,054; May 4; v. 274; p. 75.
Sweeping machine, Street-. A. Schroeder. No. 1,340,133; May 11; v. 274; p. 354.
Swimming apparatus. W. Webster. No. 1,341,290; May 25; v. 274; p. 702.
Swimming device. O. Grundmann. No. 1,340,892; May 25; v. 274; p. 625.
Swing. P. S. Medart. No. 1,340,904; May 25; v. 274; p. 627.
Swing, Chair-. J. W. Sparks. No. 1,339,296; May 4; v. 274; p. 119.
Switch: *See*—
Cross-bar switch. Locking-switch.
Electric switch. Motor-starting switch.
Electric-circuit switch. Quick-break switch.
Electrical switch. Railway-switch.
Electromechanical switch. Time-controlled switch.
Emergency-switch. Tumbler-switch.
Fire-alarm switch.
Switch. S. E. Perkins. No. 1,340,403; May 18; v. 274; p. 462.
Switch-handle. H. U. Badeau. No. 1,341,611; May 25; v. 274; p. 764.
Switch-lock. B. P. Swyers. No. 1,339,302; May 4; v. 274; p. 120.
Switch mechanism. N. E. Salsich. No. 1,341,246; May 25; v. 274; p. 694.
Switch-point protector. J. H. Lynch. No. 1,341,330; May 25; v. 274; p. 710.
Switching apparatus. W. M. Scott. No. 1,340,918; May 25; v. 274; p. 630.
Table: *See*—
Camp-table. Folding table.
Chiropractor's table. Folding universal table.
Table and receptacle, Combination. J. Sokač and A. Semko. No. 1,341,083; May 25; v. 274; p. 662.
Table for use of chiropractors, Portable adjusting-. S. E. Kaufman. No. 1,338,735; May 4; v. 274; p. 16.
Tables, Manipulator for shear-. F. C. Biggert, Jr. No. 1,340,595; May 18; v. 274; p. 499.
Tables, Serving apparatus for dining-. L. Rod. No. 1,339,525; May 11; v. 274; p. 238.
Tables, Transmitter-guard for power-. P. Hleb. No. 1,339,758; May 11; v. 274; p. 283.
Tack, Thumb-. Y. Kinoshita. No. 1,338,988; May 4; v. 274; p. 62.
Tag, Automobile identification-. J. W. Williams. No. 1,340,998; May 25; v. 274; p. 646.
Tag holder, Price-. H. W. Behrens. No. 1,341,491; May 25; v. 274; p. 742.
Talcum-powder box. F. Eberhart. No. 1,340,217; May 18; v. 274; p. 427.
Talking-machine. F. J. Empson. No. 1,340,531; May 18; v. 274; p. 486.
Talking-machine repeating attachment. J. C. Hitchner. No. 1,339,199; May 4; v. 274; p. 102.
Talking-machine sound-box. G. Hetherington. No. 1,339,337; May 4; v. 274; p. 127.
Talking-machines, Sound-tube for. L. Y. Squibb. No. 1,341,522; May 25; v. 274; p. 747.
Talking machine stylus-arm. F. Adams. No. 1,341,625; May 25; v. 274; p. 767.
Tank: *See*—
Clamp-tank. Ore leaching and settling tank.
Gasolene-delivering tank.
Tank and forming same. R. D. Johnson. No. 1,339,062; May 4; v. 274; p. 77.
Tank construction. A. A. Kramer. No. 1,341,214; May 25; v. 274; p. 688.
Tank construction. A. A. Kramer. No. 1,341,216; May 25; v. 274; p. 688.
Tank construction, Vehicle-. A. A. Kramer. No. 1,341,215; May 25; v. 274; p. 688.
Tank-filler cap, Gasolene-. S. A. Stranahan. No. 1,339,485; May 11; v. 274; p. 231.
Tank hand-hole and cover. A. F. O'Connor. No. 1,339,905; May 11; v. 274; p. 311.
Tar, Producing resinous bases from. E. Wirth. No. 1,339,310; May 4; v. 274; p. 121.
Tars and pyroligneous acid, Separating wood-. W. E. Clifford. No. 1,339,022; May 4; v. 274; p. 69.
Teeter-board, Revolving. W. Williams. No. 1,339,536; May 11; v. 274; p. 241.
Teeth, Artificial. R. E. Hall. No. 1,339,821; May 11; v. 274; p. 295.
Telegraph and telephone circuits, Receiver for wireless-. F. E. Summers. No. 1,338,756; May 4; v. 274; p. 20.
Telegraph system. R. A. Heising. No. 1,339,824; May 11; v. 274; p. 295.
Telegraphy. T. B. Dixon. No. 1,339,549; May 11; v. 274; p. 243.
Telegraphy. T. B. Dixon. No. 1,339,550; May 11; v. 274; p. 243.
Telegraphy. T. B. Dixon. No. 1,339,551; May 11; v. 274; p. 244.
Telemotor. R. MacGregor. No. 1,340,727; May 18; v. 274; p. 522.
Telephone. E. A. Bohlman. No. 1,341,105; May 25; v. 274; p. 667.
Telephone attachment. C. E. Krueger. No. 1,339,518; May 11; v. 274; p. 237.
Telephone-concealing hood, Ornamental. H. W. Knight. No. 1,340,863; May 18; v. 274; p. 548.
Telephone-exchange system. H. P. Clausen. No. 1,340,935; May 25; v. 274; p. 633.
Telephone-exchange system. A. F. Dixon and F. N. Reeves. No. 1,340,940; May 25; v. 274; p. 634.
Telephone-exchange system. L. Polinkowsky. No. 1,339,575; May 11; v. 274; p. 248.
Telephone-exchange system. J. L. Wright. No. 1,339,010; May 4; v. 274; p. 66.
Telephone hand set or handpiece. H. G. Pape. No. 1,341,280; May 25; v. 274; p. 700.
Telephone-receiver. A. Umholtz. No. 1,340,807; May 18; v. 274; p. 538.
Telephone-receiver holder. J. Levy. No. 1,338,781; May 4; v. 274; p. 25.
Telephone-receivers, Acoustic stand for. B. E. Chapin. No. 1,341,358; May 25; v. 274; p. 716.
Telephone set. W. T. Booth. No. 1,341,007; May 25; v. 274; p. 648.
Telephone set. H. C. Egerton. No. 1,339,814; May 11; v. 274; p. 294.
Telephone set. R. R. Herrmann. No. 1,340,955; May 25; v. 274; p. 637.
Telephone system. J. N. Reynolds and F. A. Stearn. No. 1,340,982; May 25; v. 274; p. 643.
Telephone system, Automatic. H. P. Clausen. No. 1,340,934; May 25; v. 274; p. 632.
Telephone system, Code-ringing. T. G. Martin. (Reissue.) No. 14,863; May 25; v. 274; p. 767.
Telephone system, Machine-switching. A. E. Lundell. No. 131,473; May 25; v. 274; p. 738.
Telephone system, Machine-switching. S. B. Williams, Jr. No. 1,340,997; May 25; v. 274; p. 646.
Telephone system, Two-wire multiple automatic. B. G. Dunham. No. 1,339,175; May 4; v. 274; p. 97.
Telephone-transformer. V. L. Smith. No. 1,339,793; May 11; v. 274; p. 290.
Telescope. W. R. Ham. No. 1,339,386; May 11; v. 274; p. 212.
Temple. G. H. Day. No. 1,340,879; May 25; v. 274; p. 623.
Tentering-clip. F. Hinnekens. No. 1,339,509; May 11; v. 274; p. 236.
Test-pieces, Grip for. J. G. Morrow. No. 1,341,431; May 25; v. 274; p. 730.
Testing process. M. A. Laabs. No. 1,339,031; May 4; v. 274; p. 71.
Testing system. R. D. Conway. No. 1,340,936; May 25; v. 274; p. 633.
Testing system, Electrical. H. P. Clausen. No. 1,340,933; May 25; v. 274; p. 633.
Testing system, process, and machine. A. B. Hazard. No. 1,341,463; May 25; v. 274; p. 736.
Thawing ground. J. H. Miles. No. 1,339,036; May 4; v. 274; p. 72.
Theater-curtain-operating mechanism. W. Lemle. No. 1,340,066; May 11; v. 274; p. 341.
Thermometer-holder. H. J. Richards. No. 1,339,288; May 4; v. 274; p. 117.
Thermophone-blanks, Machine for making. A. M. van Doorn. No. 1,338,886; May 4; v. 274; p. 43.
Thermophones, Machine for finishing. A. M. van Doorn. No. 1,338,887; May 4; v. 274; p. 44.
Thermophones, Making. A. M. van Doorn. No. 1,338,888; May 4; v. 274; p. 44.
Thread-gage. C. L. Pettibone. No. 1,339,573; May 11; v. 274; p. 248.
Thread-guiding device. A. L. Hansen. No. 1,340,541; May 18; v. 274; p. 488.
Threshing-machine teeth, Shoe for. W. F. Hamilton. No. 1,341,230; May 25; v. 274; p. 691.
Threshers, Sheaf-distributer for. R. B. Mason. No. 1,341,238; May 25; v. 274; p. 692.
Ticket-dispensing device. P. C. Harbaugh. No. 1,339,823; May 11; v. 274; p. 295.
Ticket holder, Railway-passenger-. W. Levy. No. 1,340,724; May 18; v. 274; p. 523.
Ticket-issuing register, Multiple-. F. L. Fuller. No. 1,340,221; May 18; v. 274; p. 428.
Ticket machine, Pin-. H. Heine. No. 1,339,887; May 11; v. 274; p. 307.
Ticket, Railway-. G. A. Smiley. No. 1,341,346; May 25; v. 274; p. 713.
Ticket, Shipping-. C. F. Handshy and W. P. Potter. No. 1,338,770; May 4; v. 274; p. 23.
Tie: *See*—
Package-tie. Railway-tie.
Tie and rail fastener, Metal. R. H. Worrell. No. 1,341,609; May 25; v. 274; p. 764.
Tie-holder. A. W. Deshane. No. 1,340,755; May 18; v. 274; p. 528.
Tile, Hollow. R. S. Requa. No. 1,341,071; May 25; v. 274; p. 660.
Tile, Roofing-. J. M. Martin. No. 1,339,033; May 4; v. 274; p. 71.
Timber-cutting machine. J. R. Davenport. No. 1,338,977; May 4; v. 274; p. 60.

Time-controlled light. J. M. Terzich. No. 1,339,236; May 4; v. 274; p. 108.
Time-controlled switch. L. L. Fuller. No. 1,340,039; May 11; v. 274; p. 336.
Time-recorder, Watchman's. W. J. Tidd. No. 1,340,578; May 18; v. 274; p. 495.
Timer. W. W. Schubert. No. 1,340,121; May 11; v. 274; p. 352.
Timing mechanism for intermittently-fed machines. C. P. Wetmore. No. 1,338,761; May 4; v. 274; p. 21.
Tinning-machine. R. L. Covington. No. 1,341,495; May 25; v. 274; p. 742.
Tire. J. H. Hill. No. 1,340,339; May 18; v. 274; p. 450.
Tire. M. C. Overman. No. 1,340,556; May 18; v. 274; p. 491.
Tire-alarm. H. Brown. No. 1,341,613; May 25; v. 274; p. 765.
Tire-armor. Antislipping. C. E. Ross. No. 1,340,629; May 18; v. 274; p. 505.
Tire armor, Vehicle-. V. P. Ratzburg. No. 1,338,842; May 4; v. 274; p. 35.
Tire armor, Vehicle-. V. P. Ratzburg. No. 1,338,843; May 4; v. 274; p. 36.
Tire, Automobile-. T. Meyer. No. 1,341,380; May 25; v. 274; p. 720.
Tire-beads, Centering-ring for. W. F. Goff. No. 1,339,451; May 11; v. 274; p. 224.
Tire-carrier. P. Barnum. No. 1,340,431; May 18; v. 274; p. 468.
Tire-casing core. F. L. Bailey and J. H. La Grant. No. 1,339,875; May 11; v. 274; p. 305.
Tire-casing lock. T. E. Cook and A. T. Freije. No. 1,338,677; May 4; v. 274; p. 5.
Tire-casings, Resilient core for. F. L. Bailey and J. H. La Grant. No. 1,339,876; May 11; v. 274; p. 305.
Tire-chain. P. E. Daubenspeck. No. 1,341,301; May 25; v. 274; p. 704.
Tire chain, Automobile-. M. C. Hart. No. 1,338,772; May 4; v. 274; p. 23.
Tire-chain snap-hook. J. P. Fennessy. No. 1,338,686; May 4; v. 274; p. 7.
Tire, Emergency-. H. M. Shannon. No. 1,341,345; May 25; v. 274; p. 713.
Tire filler and tester. C. W. Pelton and J. P. Barbour. No. 1,339,041; May 4; v. 274; p. 73.
Tire-filler with a flexible cable in the center, Rubber. M. W. Needham. No. 1,339,472; May 11; v. 274; p. 228.
Tire, Folding emergency-. E. A. Beaulieu. No. 1,338,807; May 4; v. 274; p. 29.
Tire for vehicle-wheels, Spring-. A. B. Nix. No. 1,341,576; May 25; v. 274; p. 758.
Tire-grip, Chain. R. E. Pye. No. 1,339,978; May 11; v. 274; p. 324.
Tire-grip, Chain. J. R. Reyburn. No. 1,339,979; May 11; v. 274; p. 325.
Tire-grip tightener. J. R. Reyburn. No. 1,340,184; May 18; v. 274; p. 421.
Tire having a reserve of expansibility. L. A. Subers. No. 1,339,868; May 11; v. 274; p. 304.
Tire inner tubes, Manufacturing. J. J. Shoemaker and C. C. Cox. No. 1,341,247; May 25; v. 274; p. 694.
Tire-molds, Machine for finishing. J. C. Fiddyment. No. 1,339,816; May 11; v. 274; p. 294.
Tire-molds, Means for stacking. B. H. Rose. No. 1,338,844; May 4; v. 274; p. 36.
Tire-patch material, Producing. C. O. Duffy. No. 1,339,696; May 11; v. 274; p. 272.
Tire, Pneumatic. C. C. Gates. No. 1,339,951; May 11; v. 274; p. 320.
Tire, Pneumatic. B. A. Karr. No. 1,339,516; May 11; v. 274; p. 237.
Tire, Pneumatic. I. Normandy. No. 1,339,782; May 11; v. 274; p. 288.
Tire-protector. W. A. Helm. No. 1,340,608; May 18; v. 274; p. 501.
Tire-protector. D. D. O'Brien. No. 1,340,179; May 18; v. 274; p. 420.
Tire, Resilient. J. Spadafora. No. 1,341,391; May 25; v. 274; p. 722.
Tire-retreading apparatus. R. A. Brooks. (Reissue.) No. 14,852; May 4; v. 274; p. 135.
Tire-rim. C. N. Hauffe. No. 1,341,124; May 25; v. 274; p. 670.
Tire, Spring-. E. S. Johnson. No. 1,340,272; May 18; v. 274; p. 437.
Tire-treating machine. C. L. Durham. No. 1,341,500; May 25; v. 274; p. 743.
Tire, Vehicle-. W. H. Robinson. No. 1,340,984; May 25; v. 274; p. 643.
Tire-vulcanizer. C. Nordstrom. No. 1,340,973; May 25; v. 274; p. 641.
Tires, Device for use in changing. J. E. Erickson. No. 1,339,504; May 11; v. 274; p. 235.
Tires during vulcanizing, Means for treating vehicle-. F. G. Flegal. No. 1,340,440; May 18; v. 274; p. 469.
Tires, Inner tube for. J. A. Perkins. No. 1,339,283; May 4; v. 274; p. 116.
Tires to worn casings, Applying repair-. C. C. Gates. No. 1,341,121; May 25; v. 274; p. 669.
Titanium-oxygen compounds, Manufacture of. P. Farup. No. 1,341,307; May 25; v. 274; p. 705.
Tobacco-boxes, Match-holding attachment for commercial. A. C. Burtis. No. 1,341,295; May 25; v. 274; p. 703.
Tobacco-curing. A. C. Buensod. No. 1,339,373; May 4; v. 274; p. 133.
Tobacco-curing. A. C. Buensod. No. 1,339,374; May 4; v. 274; p. 134.
Tobacco curing and treating. A. C. Buensod. No. 1,339,375; May 4; v. 274; p. 134.
Tobacco, Envelop for burning. F. J. Roffeis. No. 1,339,577; May 11; v. 274; p. 248.
Tobacco-leaf, Process and apparatus for stripping. O. Hammerstein. No. 1,338,768; May 4; v. 274; p. 22.
Tobacco-pipe. A. Dunhill. No. 1,341,418; May 25; v. 274; p. 727.
Toe-softener. F. M. Furber. No. 1,340,825; May 18; v. 274; p. 541.
Toilet article. N. A. Levitan. No. 1,339,265; May 4; v. 274; p. 113.
Toilet article. H. Schneider. No. 1,339,673; May 11; v. 274; p. 267.
Tomato and fruit sorter and distributer. T. J. Peters. No. 1,340,079; May 11; v. 274; p. 343.
Tongue-depressor. J. M. Park. No. 1,339,711; May 11; v. 274; p. 275.
Tool, Antiskid-chain. D. C. Woodworth. No. 1,338,804; May 4; v. 274; p. 29.
Tool-box. A. Balboni. No. 1,340,870; May 25; v. 274; p. 621.
Tool-carrying spindle. C. E. Van Norman. No. 1,339,308; May 4; v. 274; p. 121.
Tool, Combination-. J. and S. Faix. No. 1,339,698; May 11; v. 274; p. 272.
Tool, Crank-pin-refinishing. S. A. Nonsuch. No. 1,341,577; May 25; v. 274; p. 758.
Tool, Cutting-. J. R. Naugle. No. 1,341,067. May 25; v. 274; p. 660.
Tool, Dental massage-. W. L. Jones. No. 1,340,959; May 25; v. 274; p. 638.
Tool, Garden-. R. Pruett. No. 1,341,196; May 25; v. 274; p. 684.
Tool, Grappling-. L. Scarbrough. No. 1,340,083; May 11; v. 274; p. 344.
Tool-handle. W. McKenzie. No. 1,341,378; May 25; v. 274; p. 720.
Tool-handles, Two-part self-locking rivet for. H. B. Hemingway. No. 1,339,198; May 4; v. 274; p. 101.
Tool-holder. O. Cronau. No. 1,341,206; May 25; v. 274; p. 686.
Tool-holder, Pocket. M. Manning. No. 1,339,213; May 4; v. 274; p. 104.
Tool-holding implement. J. W. Stoke. No. 1,339,725; May 11; v. 274; p. 277.
Tool, Rim-. W. J. Berg and A. B. Kidder. No. 1,341,104; May 25; v. 274; p. 666.
Tool, Scraping. N. W. Dingwall. No. 1,341,047; May 25; v. 274; p. 655.
Tool, Weeding-. L. J. and D. C. Panetti. No. 1,340,624; May 18; v. 274; p. 504.
Tool, Wire-wrapping. O. Fachman. No. 1,340,029; May 11; v. 274; p. 334.
Tools, Conveying liquid to rock-drilling. W. E. Nettle, P. Selby, J. Blyth, and J. H. Holman. No. 1,339,858; May 11; v. 274; p. 302.
Tooth, Artificial. L. L. Poston. No. 1,338,959; May 4; v. 274; p. 57.
Tooth-brush, Rotary. M. Eisner and A. M. Freeman. No. 1,338,821; May 4; v. 274; p. 32.
Tooth cutter, Detachable-. C. C. Cashman. No. 1,340,474; May 18; v. 274; p. 475.
Tooth point, Renewable cutting-. W. L. Edmondson. No. 1,340,385; May 18; v. 274; p. 459.
Toothbrush. J. S. Westhafer. No. 1,340,093; May 11; v. 274; p. 346.
Toothbrush, Fountain-. C. P. Breining. No. 1,340,115; May 11; v. 274; p. 351.
Toothbrush, Rotary. G. B. Ehrig. No. 1,340,760; May 18; v. 274; p. 529.
Torch for gas-burners, Ignition-. E. L. Claus. No. 1,339,102; May 4; v. 274; p. 85.
Torch, Kerosene-burning. C. L. Hinkson. No. 1,341,127; May 25; v. 274; p. 671.
Torch, Liquid-fuel. A. J. Preining. No. 1,338,840; May 4; v. 274; p. 35.
Torch, Oxyhydrogen cutting-. C. J. Coberly. No. 1,340,699; May 18; v. 274; p. 518.
Torch, Safety electric welding-. E. Jahoda. No. 1,340,270; May 18; v. 274; p. 436.
Torch, Universal quick-thaw. J. W. Moss. No. 1,341,514; May 25; v. 274; p. 746.
Torpedo, Aerial. M. H. Fahrenholz. No. 1,339,181; May 4; v. 274; p. 98.
Torpedo, Aerial. J. Freeska. No. 1,339,188; May 4; v. 274; p. 100.
Toy. E. P. Bodin. No. 1,340,109; May 11; v. 274; p. 349.
Toy. F. M. Collins and J. H. Glenn. No. 1,339,165; May 4; v. 274; p. 95.
Toy. G. A. King. No. 1,340,394; May 18; v. 274; p. 460.
Toy. A. W. Manzie. No. 1,340,786; May 18; v. 274; p. 534.
Toy. M. Wild. No. 1,340,512; May 18; v. 274; p. 483.
Toy aeroplane. A. E. Werner. No. 1,341,624; May 25; v. 274; p. 766.
Toy and savings-bank, Combined. R. E. and N. Starkie. No. 1,338,879; May 4; v. 274; p. 42.
Toy hand-wagon. C. H. Belknap. No. 1,341,102; May 25; v. 274; p. 666.

Toy boat. H. T. and E. J. Kingbury. No. 1,340,614; May 18; v. 274; p. 502.
Toy car, Manually-propelled. J. C. Brown. No. 1,339,433; May 11; v. 274; p. 221.
Toy, Dancing-figure. F. Majewski. No. 1,338,944; May 4; v. 274; p. 54.
Toy, Educational. G. Taussig and C. Wagenfohr. No. 1,340,304; May 18; v. 274; p. 443.
Toy house. L. S. Hansen. No. 1,340,047; May 11; v. 274; p. 337.
Toy or game. A. L. Lilley. No. 1,340,278; May 18; v. 274; p. 438.
Toy pistol. M. A. Turtle. No. 1,340,190; May 18; v. 274; p. 422.
Toy vehicles, Spring-movement for. F. L. Lindstrom. No. 1,339,934; May 11; v. 274; p. 316.
Track-fastening and making same. E. C. Danner. No. 1,340,478; May 18; v. 274; p. 476.
Tracking device. O. H. Arno. No. 1,340,360; May 18; v. 274; p. 454.
Traction-engine. M. Stahl. No. 1,338,754; May 4; v. 274; p. 20.
Traction-wheel. L. J. Johnson. No. 1,341,466; May 15; v. 274; p. 737.
Tractor. W. Boulais. No. 1,340,112; May 11; v. 274; p. 350.
Tractor. C. J. Britt. No. 1,341,537; May 25; v. 274; p. 750.
Tractor. W. L. Hendricks. No. 1,338,919; May 4; v. 274; p. 50.
Tractor. J. Jessen. No. 1,340,169; May 18; v. 274; p. 418.
Tractor. C. Kinney. No. 1,341,181; May 25; v. 274; p. 681.
Tractor. C. Knott. No. 1,341,428; May 25; v. 274; p. 729.
Tractor. J. L. Lake and F. D. McMahon. No. 1,338,835; May 4; v. 274; p. 34.
Tractor. H. W. Truscott. No. 1,340,306; May 18; v. 274; p. 443.
Tractor. J. Zimarik. No. 1,341,098; May 25; v. 274; p. 665.
Tractor comprising a driving and steering wheel. C. M. Motte. No. 1,338,837; May 4; v. 274; p. 34.
Tractor, Dirigible. W. P. Allen. No. 1,340,514; May 18; v. 274; p. 483.
Tractor-draw-bar attachment. J. P. Seitz. No. 1,340,504; May 18; v. 274; p. 481.
Tractor, Farm-. P. Riseborough. No. 1,341,480; May 25; v. 274; p. 740.
Tractor-hitch. C. J. Hall. No. 1,341,170; May 25; v. 274; p. 679.
Tractor implement, Combination. A. G. and A. Ronning. No. 1,340,461; May 18; v. 274; p. 473.
Tractor, Motor. T. F. McCallister. No. 1,339,271; May 4; v. 274; p. 114.
Tractors, Clutch control for. B. A. Spinney. No. 1,341,222; May 25; v. 274; p. 689.
Tractors, Steering attachment for. F. M. Hurni. No. 1,341,426; May 25; v. 274; p. 729.
Traffic-post. P. Hannagan. No. 1,341,318; May 25; v. 274; p. 707.
Trailers, Combination end-gate and step for. A. P. Fix. No. 1,340,761; May 18; v. 274; p. 529.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,416; May 18; v. 274; p. 465.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,417; May 18; v. 274; p. 465.
Trailers, gun-carriages, and other apparatus, Removable bogie for. E. Schneider. No. 1,340,418; May 18; v. 274; p. 465.
Trailers, Removable bogie for. E. Schneider. No. 1,340,414; May 18; v. 274; p. 464.
Train-control apparatus, Automatic. A. J. Brookins. No. 1,339,918; May 11; v. 274; p. 313.
Train-signal. E. G. Kellam. No. 1,341,179; May 25; v. 274; p. 681.
Train-stop, Automatic. F. J. McAvoy. No. 1,340,068; May 11; v. 274; p. 341.
Trainman's kit. G. B. Jackson. No. 1,341,559; May 25; v. 274; p. 755.
Transformer. C. H. Thordarson. No. 1,338,884; May 4; v. 274; p. 43.
Transformer, Magneto-electric. P. Rabbidge. No. 1,341,340; May 25; v. 274; p. 712.
Transit, Illuminated. D. W. Brunton. No. 1,339,019; May 4; v. 274; p. 68.
Transmission. H. M. Armistead. No. 1,341,162; May 25; v. 274; p. 678.
Transmission. F. V. Johnson. No. 1,338,777; May 4; v. 274; p. 24.
Trap: *See*—
Animal-trap.
Flytrap.
Rat-trap.
Spring-trap.
Steam-trap.
Vacuum and return steam-trap.
Trap. N. P. Capehart. No. 1,340,372; May 18; v. 274; p. 456.
Trap. M. M. Shields. No. 1,340,801; May 18; v. 274; p. 537.
Trestle, Reinforced-concrete. H. P. Hamlin. No. 1,341,270; May 25; v. 274; p. 698.
Trimming-machine. J. A. Butler. No. 1,339,807; May 11; v. 274; p. 292.
Trimming or planing machine, Surface. T. J. Dempsey. No. 1,339,172; May 4; v. 274; p. 97.
Trolley-arms, Locking device for derailed-. C. E. and P. Pigache. No. 1,339,221; May 4; v. 274; p. 106.
Trolley-tinder, Safety. H. B. Sawyer. No. 1,341,284; May 25; v. 274; p. 701.
Trousers, Appliance for men's. J. B. Koehne. No. 1,340,276; May 18; v. 274; p. 437.
Truck. L. O. Culver and J. B. Wills. No. 1,340,378; May 18; v. 274; p. 457.
Truck. J. A. Johnson. No. 1,339,514; May 11; v. 274; p. 237.
Truck. J. T. Hall. No. 1,341,171; May 25; v. 274; p. 679.
Truck. W. F. Irrgang. No. 1,339,109; May 4; v. 274; p. 86.
Truck. F. H. Reynolds. No. 1,341,197; May 25; v. 274; p. 685.
Truck and wagon dump, Combination. F. W. Swanson. No. 1,338,798; May 4; v. 274; p. 28.
Truck construction and drive, Motor-. W. S. Morton. No. 1,339,124; May 4; v. 274; p. 89.
Truck construction, Motor-. F. H. Farmer. No. 1,341,306; May 25; v. 274; p. 705.
Truck, Conveying-. K. A. and E. H. Widegren. No. 1,341,249; May 25; v. 274; p. 694.
Truck for portable lights. A. F. Jenkins. No. 1,341,235; May 25; v. 274; p. 692.
Truck-hoist. P. C. Haas. No. 1,340,893; May 25; v. 274; p. 625.
Truck-hoist. T. L. Lilly. No. 1,341,142; May 25; v. 274; p. 674.
Truck, Transportation-. E. C. Pruismann. No. 1,340,672; May 18; v. 274; p. 513.
Trucks, Steering mechanism for motor-. W. S. Morton. No. 1,339,125; May 4; v. 274; p. 89.
Trunk and suitcase fastener. C. E. Duggan. No. 1,339,174; May 4; v. 274; p. 97.
Trunk-collar and track, Combined. G. H. Wheary. No. 1,339,534; May 11; v. 274; p. 240.
Trunk-wardrobe-section protector. G. H. Wheary. No. 1,339,533; May 11; v. 274; p. 240.
Truss. I. N. Cress. No. 1,339,946; May 11; v. 274; p. 319.
Truss. B. Lloid. No. 1,338,991; May 4; v. 274; p. 66.
Truss. F. P. McElfresh. No. 1,341,333; May 25; v. 274; p. 711.
Truss. P. J. Mahan. No. 1,340,903; May 25; v. 274; p. 627.
Tub: *See*—
Laundry-tub.
Tub-heater. J. E. Salsman. No. 1,338,869; May 4; v. 274; p. 40.
Tube: *See*—
Tire inner tube.
Tube and making same, Inner. H. Dech. No. 1,340,702; May 18; v. 274; p. 519.
Tube and making same, Inner. H. Dech. No. 1,340,704; May 18; v. 274; p. 519.
Tube and method of and apparatus for making same, Inner. H. Dech. No. 1,340,703; May 18; v. 274; p. 519.
Tube-cap. A. Landgrebe. No. 1,340,061; May 11; v. 274; p. 340.
Tube-knocker. H. G. Monkhorst. No. 1,341,277; May 25; v. 274; p. 699.
Tube-making machine. S. Derringer. No. 1,340,706; May 18; v. 274; p. 519.
Tube systems, Automatic locking device for pneumatic-. G. F. Botscheider. No. 1,339,594; May 11; v. 274; p. 252.
Tubes, Apparatus for self-hooping. E. Schneider. No. 1,338,872; May 4; v. 274; p. 41.
Tubes, Producing longitudinal ribs on the exteriors of. T. E., Jr., and J. B. Murray. No. 1,339,970; May 11; v. 274; p. 323.
Tubular bodies from welding, Preventing cores for. P. A. E. Armstrong. No. 1,341,204; May 25; v. 274; p. 686.
Tumbler-switch. H. J. Dean-Osgood. No. 1,339,171; May 4; v. 274; p. 96.
Turbine. J. H. Felthousen. No. 1,339,183; May 4; v. 274; p. 99.
Turbine, Axial-flow. F. Ljungström. No. 1,341,273; May 25; v. 274; p. 698.
Turbine, Gas-. O. Frykman. No. 1,341,229; May 25; v. 274; p. 691.
Turbine gas-engine. G. F. and K. O. Schmid. No. 1,340,563; May 18; v. 274; p. 492.
Turbine, Geared. H. T. Herr. No. 1,339,508; May 11; v. 274; p. 235.
Turbine motor, Hydrocarbon or gasolene. W. G. Simpson. No. 1,339,483; May 11; v. 274; p. 231.
Turbine, Steam-. A. A. E. Sterzing. No. 1,338,708; May 4; v. 274; p. 11.
Turnstile. C. D. Trubenbach and D. B. Sanneman. No. 1,339,076; May 4; v. 274; p. 80.
Turpentine substitute. M. Darrin. No. 1,340,600; May 18; v. 274; p. 500.
Twine-ball. G. L. Rice. No. 1,340,254; May 18; v. 274; p. 434.
Twine-ball. G. L. Rice. No. 1,340,837; May 18; v. 274; p. 544.
Twyer. G. Rowley. No. 1,338,700; May 4; v. 274; p. 10.

Type-bar. J. Müller. No. 1,341,574; May 25; v. 274; p. 757.
Type-casting machines, Adjustable liner for. G. A. Jones. No. 1,340,831; May 18; v. 274; p. 543.
Typewriter, Cylindrical. D. Jankower. No. 1,341,131; May 25; v. 274; p. 671.
Typewriter-escapement. L. F. Worden. No. 1,341,350; May 25; v. 274; p. 714.
Typewriting and computing machine, Combined. F. A. Hart. No. 1,339,704; May 11; v. 274; p. 273.
Typewriting and computing machine, Combined. J. Waldheim. No. 1,339,993; May 11; v. 274; p. 327.
Typewriting-machine. L. S. Burridge. No. 1,339,806; May 11; v. 274; p. 292.
Typewriting-machine. H. K. Henry. No. 1,341,424; May 25; v. 274; p. 728.
Typewriting-machine. C. M. Hilsee. No. 1,340,542; May 18; v. 274; p. 488.
Typewriting-machine. A. G. F. Kurowski. No. 1,340,488; May 18; v. 274; p. 478.
Typewriting-machine. A. G. F. Kurowski. No. 1,340,900; May 25; v. 274; p. 627.
Typewriting-machine. P. Roble. No. 1,339,369; May 4; v. 274; p. 133.
Typewriting-machine. J. Waldheim. No. 1,339,078; May 4; v. 274; p. 80.
Typewriting-machine. J. Waldheim. No. 1,340,469; May 18; v. 274; p. 474.
Typewriting-machine. J. Waldheim. No. 1,340,864; May 18; v. 274; p. 548.
Typewriting-machine. J. Waldheim. No. 1,340,925; May 25; v. 274; p. 631.
Typewriting-machine. J. Waldheim. No. 1,341,028; May 25; v. 274; p. 652.
Typesetting-machines, Motor-drive for. P. Paris. No. 1,339,667; May 11; v. 274; p. 266.
Typographical machines, Casting material for. T. W. Johns. No. 1,340,613; May 18; v. 274; p. 502.
Umbrella and cane, Combination. A. Cleveland. No. 1,340,375; May 18; v. 274; p. 457.
Umbrella-tip pad. R. J. d'Aquin. No. 1,340,476; May 18; v. 274; p. 476.
Undergarment. P. A. Luckett. No. 1,339,116; May 4; v. 274; p. 88.
Undergarment, Combination-. A. B. Sanders. No. 1,339,070; May 4; v. 274; p. 79.
Universal die. E. H. Branson. No. 1,340,006; May 11; v. 274; p. 330.
Universal joint. J. G. Blunt. No. 1,340,368; May 18; v. 274; p. 455.
Unloader, Hydraulic. G. Waldref. No. 1,339,079; May 4; v. 274; p. 80.
Upholstery-fastening means. W. N. Collar. No. 1,340,475; May 18; v. 274; p. 475.
Upholstery-fold. T. G. Paddack. No. 1,339,281; May 4; v. 274; p. 116.
Upholstery-spring construction. L. A. Young. No. 1,338,806; May 4; v. 274; p. 29.
Utensil-holder. C. Ryslek. No. 1,341,343; May 25; v. 274; p. 713.
Vacuum and compressed air brake, Combined. W. V. Turner. No. 1,339,678; May 11; v. 274; p. 268.
Vacuum and return steam-trap. W. E. Tillinghast. No. 1,339,074; May 4; v. 274; p. 79.
Vacuum-cleaner handle. D. B. Replogle. No. 1,338,791; May 4; v. 274; p. 27.
Valve. G. S. Coffin. No. 1,341,544; May 25; v. 274; p. 751.
Valve. J. L. Folster. No. 1,339,750; May 11; v. 274; p. 282.
Valve. C. H. King. No. 1,340,719; May 18; v. 274; p. 522.
Valve. C. W. Larner. No. 1,339,114; May 4; v. 274; p. 87.
Valve. R. W. Murray. No. 1,341,146; May 25; v. 274; p. 674.
Valve. H. F. Niles. No. 1,338,838; May 4; v. 274; p. 35.
Valve. O. G. Olsen. No. 1,341,151; May 25; v. 274; p. 675.
Valve. W. A. Shimp. No. 1,338,705; May 4; v. 274; p. 11.
Valve. G. W. Thompson. No. 1,339,798; May 11; v. 274; p. 299.
Valve. W. H. Washburne. No. 1,338,759; May 4; v. 274; p. 21.
Valve, Air and gas. A. and W. Otto. No. 1,339,665; May 11; v. 274; p. 266.
Valve, Automatic plate-. R. Meyer. No. 1,341,145; May 25; v. 274; p. 674.
Valve, Boiler blow-off. C. C. O'Neil. No. 1,340,790; May 18; v. 274; p. 535.
Valve, Brake-pipe. A. G. Shaver. No. 1,339,720; May 11; v. 274; p. 276.
Valve, Check-. E. S. Church. No. 1,339,101; May 4; v. 274; p. 85.
Valve-chest. L. H. Duncan. No. 1,340,652; May 18; v. 274; p. 509.
Valve construction. D. H. Francis. No. 1,340,481; May 18; v. 274; p. 477.
Valve, Dust-. S. J. Speicher. No. 1,339,005; May 4; v. 274; p. 66.
Valve, Electrolonic. E. R. Stockle. No. 1,340,575; May 18; v. 274; p. 495.
Valve, Float-. L. G. Wilson. No. 1,340,999; May 25; v. 274; p. 646.
Valve-flushing means. W. J. Coulson. No. 1,338,907; May 4; v. 274; p. 47.
Valve for funnels, Automatic. T. L. Kaufman. No. 1,341,563; May 25; v. 274; p. 755.
Valve, Gate-. H. L. Wittstein. No. 1,340,591; May 18; v. 274; p. 498.
Valve-gear, Steam-engine. C. F. Prescott. No. 1,340,405; May 18; v. 274; p. 462.
Valve-grinder. W. L. Dinsmoor. No. 1,340,756; May 18; v. 274; p. 528.
Valve-grinder. H. A. Wright. No. 1,340,001; May 25; v. 274; p. 647.
Valve lifter, Overhead-. D. Vaughan. No. 1,340,192; May 18; v. 274; p. 422.
Valve-lock. J. D. Farmer. No. 1,338,912; May 4; v. 274; p. 48.
Valve-lock. L. Peters. No. 1,339,412; May 11; v. 274; p. 217.
Valve mechanism, Thermostatic. F. W. and G. A. Robertshaw. No. 1,339,368; May 4; v. 274; p. 132.
Valve, Oscillating. A. R. Jarman. No. 1,339,110; May 4; v. 274; p. 86.
Valve, Radiator-. C. Feuser. No. 1,340,439; May 18; v. 274; p. 469.
Valve-regulating means. A. C. Dobrick. No. 1,339,811; May 11; v. 274; p. 293.
Valve-regulator, Automatic. C. H. Hodges. No. 1,341,319; May 25; v. 274; p. 707.
Valve-rotating mechanism. J. Keller. No. 1,341,134; May 25; v. 274; p. 672.
Valve, Safety-. J. G. Lanning. No. 1,340,832; May 18; v. 274; p. 543.
Valve-seat reamer. F. O. Albertson. No. 1,340,359; May 18; v. 274; p. 453.
Valve-stems, Means for attaching handles to. W. M. Fulton. No. 1,340,604; May 18; v. 274; p. 500.
Valve-tappets, Shim-holder for. G. A. Breeze. No. 1,340,211; May 18; v. 274; p. 426.
Valve, Thermostatic. E. E. Gold. No. 1,339,057; May 4; v. 274; p. 76.
Valve, Thermostatic. P. Mirk. No. 1,341,016; May 28; v. 274; p. 649.
Valve-tool. A. C. Rosenbrook. No. 1,339,422; May 11; v. 274; p. 218.
Valve, Water-gage safety-. F. F. Beese. No. 1,339,383; May 11; v. 274; p. 211.
Valves, Carbureting-screen for intake-. F. W. Lapham. No. 1,340,062; May 11; v. 274; p. 340.
Vaporizing device. A. W. Thompson and E. W. Comfort. No. 1,339,303; May 4; v. 274; p. 120.
Varnish, Manufacturing. C. H. Bennett. No. 1,341,103; May 25; v. 274; p. 666.
Vault, Burial-. N. W. Davis. No. 1,339,920; May 11; v. 274; p. 314.
Vegetable-cutter. W. Zitella. No. 1,339,254; May 4; v. 274; p. 112.
Vehicle. L. Nussbaum. No. 1,340,733; May 18; v. 274; p. 524.
Vehicle attachment. A. D. Willmore. No. 1,339,246; May 4; v. 274; p. 110.
Vehicle, Auto-propelled. R. Mauclaire and L. Delamotte. No. 1,341,379; May 25; v. 274; p. 720.
Vehicle-bed-supporting means. P. C. Baird. No. 1,340,204; May 18; v. 274; p. 424.
Vehicle-bodies, Supporting connection for. W. G. Mayer. No. 1,339,521; May 11; v. 274; p. 238.
Vehicle construction, Motor-. K. G. Lundin. No. 1,339,269; May 4; v. 274; p. 114.
Vehicle-coupling. A. B. Cadman. No. 1,340,521; May 18; v. 274; p. 484.
Vehicle-curtain light. D. M. Winans. No. 1,339,838; May 11; v. 274; p. 298.
Vehicle drive, Motor-. J. W. Prosser. No. 1,339,475; May 11; v. 274; p. 229.
Vehicle-fender. E. W. Pohlig. No. 1,340,835; May 18; v. 274; p. 543.
Vehicle for soft ground, Motor-. J. E. Ollivier. No. 1,340,789; May 18; v. 274; p. 535.
Vehicle-indicator. G. H. Bruder. No. 1,341,009; May 25; v. 274; p. 648.
Vehicle-jack. D. Bruhn. No. 1,340,150; May 18; v. 274; p. 415.
Vehicle, Motor-driven. J. Dean. No. 1,338,680; May 4; v. 274; p. 6.
Vehicle-signal. W. R. Tonkin. No. 1,339,589; May 11; v. 274; p. 251.
Vehicle-spring. E. Clark. No. 1,338,854; May 4; v. 274; p. 38.
Vehicle suspension and shock-absorber. F. O. Boswell. No. 1,340,434; May 18; v. 274; p. 468.
Vehicle-top. A. A. Augustus. No. 1,340,518; May 18; v. 274; p. 484.
Vehicle, Two-wheeled motor-. A. Duresen. No. 1,339,554; May 11; v. 274; p. 244.
Vehicle-wheel. W. N. Allan. No. 1,340,592; May 18; v. 274; p. 498.
Vehicle-wheel. W. N. Allan. No. 1,340,593; May 18; v. 274; p. 498.
Vehicle-wheel. F. L. Fernandez. No. 1,340,944; May 25; v. 274; p. 635.
Vehicles, Adjustable lamp-support for motor-. R. A. Frisbie. No. 1,339,449; May 11; v. 274; p. 224.
Vehicles, Apparatus for utilizing the trepidations of. M. A. Canale and R. Frias. No. 1,340,013; May 11; v. 274; p. 331.

Vehicles, Auxiliary tractor for motor-. G. H. Davis and W. G. Griffin. No. 1,340,024; May 11; v. 274; p. 333.
Vehicles, Disk wheel and hub for. R. C. Hoffman. No. 1,341,465; May 25; v. 274; p. 737.
Vehicles, Driving mechanism for motor-. W. O. Kuhn. No. 1,341,217; May 25; v. 274; p. 688.
Vehicles or tractors, Registering mechanism for. A. M. Buck. No. 1,340,324; May 18; v. 274; p. 447.
Vehicles, Propulsion connection for motor-. W. F. Hudson. No. 1,341,615; May 25; v. 274; p. 765.
Vehicles, Propulsion connection for motor-. W. F. Hudson. No. 1,341,616; May 25; v. 274; p. 765.
Vehicles, Pull-out device for motor-. F. A. Snideman. No. 1,340,349; May 18; v. 274; p. 452.
Vehicles, Signal system for moving. L. Ringer. No. 1,340,500; May 18; v. 274; p. 480.
Vehicles, Spare wheel for. A. D. Hogg. No. 1,340,485; May 18; v. 274; p. 478.
Vehicles, Spring suspension for motor-. E. A. Nelson. (Reissue.) No. 14,856; May 11; v. 274; p. 355.
Vehicles, Support for running-boards for. C. B. Baker. No. 1,339,379; May 4; v. 274; p. 135.
Vehicles, Traction-lug for. V. Schildwachter. No. 1,341,079; May 25; v. 274; p. 662.
Velocipede-horse. D. H. Markmann and M. A. Demmler. No. 1,340,282; May 18; v. 274; p. 439.
Vending-machine, Coin-controlled. W. G. Wilson. No. 1,340,174; May 18; v. 274; p. 419.
Ventilating and drainage system. W. E. Hughes and J. B. King. No. 1,339,761; May 11; v. 274; p. 284.
Ventilator. A. F. O'Connor. No. 1,339,973; May 11; v. 274; p. 324.
Ventilator. J. J. A. Roe. No. 1,340,673; May 18; v. 274; p. 513.
Vessel, Air-navigating. H. C. Woerz. No. 1,340,309; May 18; v. 274; p. 444.
Vessel, Concrete. L. Coke-Hill. No. 1,338,815; May 4; v. 274; p. 31.
Vessels, Pontoon for raising sunken. T. G. O. Thurston and A. Hiley. No. 1,341,289; May 25; v. 274; p. 702.
Vial, Perfume. A. Véricel. No. 1,341,525; May 25; v. 274; p. 748.
Vibrator. G. P. Elmen. No. 1,339,179; May 4; v. 274; p. 98.
Vibrator. E. N. Goodlett. No. 1,340,860; May 18; v. 274; p. 548.
Vine-lifter. G. W. Ayres. No. 1,339,840; May 11; v. 274; p. 299.
Violin-tailpiece. R. E. Halstead. No. 1,339,196; May 4; v. 274; p. 101.
Vise. L. H. Dallard. No. 1,340,477; May 18; v. 274; p. 476.
Vise, Pipe-holding. E. J. Brisben. No. 1,340,147; May 18; v. 274; p. 414.
Vulcanizer. G. S. Andrus. No. 1,339,151; May 4; v. 274; p. 93.
Vulcanizer. H. K. Wheelock. No. 1,340,641; May 18; v. 274; p. 507.
Vulcanizer. H. K. Wheelock. No. 1,340,642; May 18; v. 279; p. 508.
Vulcanizing. T. A. McAllister. No. 1,340,965; May 25; v. 274; p. 639.
Wagon-brake. E. W. Tucker. No. 1,340,743; May 18; v. 274; p. 526.
Wagon or trailer tongues, Coupling device or splice for. C. A. Hennicke. No. 1,339,335; May 4; v. 274; p. 126.
Wagons, Connection with apparatus for tipping. W. Reid. No. 1,340,683; May 18; v. 274; p. 515.
Waistbands, Machine for making. G. W. Weiss. No. 1,341,092; May 25; v. 274; p. 664.
Wall, Baffle-. J. E. Muhlfeld. No. 1,340,907; May 25; v. 274; p. 628.
Wall-covering. G. F. Bishopric. No. 1,339,915; May 11; v. 274; p. 313.
Wall structure, Retaining-. W. E. Pease and N. H. Suloff. No. 1,340,670; May 18; v. 274; p. 513.
Ware to leers, Mechanism for transferring. C. R. Lott. No. 1,338,992; May 4; v. 274; p. 63.
Warp-replenishing mechanism. E. F. Hathaway and C. Lea. No. 1,339,507; May 11; v. 274; p. 235.
Warping-machines, Pneumatic lint-cleaner for. J. E. Farrell. No. 1,339,182; May 4; v. 274; p. 99.
Washboard. A. Horton. No. 1,338,930; May 4; v. 274; p. 52.
Washboard. G. W. Shoemaker. No. 1,339,292; May 4; v. 274; p. 118.
Washer: *See*—
Egg-washer. Oil-washer.
Locking-washer.
Washing-machine. M. D. Gibson. No. 1,339,818; May 11; v. 274; p. 294.
Washing-machine. A. Hofmann. No. 1,340,543; May 18; v. 274; p. 488.
Washing machine, Can-. A. B. Herr. No. 1,340,768; May 18; v. 274; p. 531.
Washing machine, Combination. H. H. Toll and F. C. Duff. No. 1,339,688; May 11; v. 274; p. 251.
Washing machine, Dish-. W. C. Ashley. No. 1,340,517; May 18; v. 274; p. 483.
Washing machine, Dish-. S. H. Cochran. No. 1,339,810; May 11; v. 274; p. 293.
Washing-machine heater. H. S. Carson. No. 1,341,109; May 25; v. 274; p. 667.
Washing-machines, Driving mechanism for. A. B. Cooling. No. 1,340,328; May 18; v. 274; p. 447.
Washing-machines, Driving mechanism for. H. C. Doman. No. 1,340,329; May 18; v. 274; p. 448.
Washing-machines, Driving mechanism for power. H. H. Toll. No. 1,339,587; May 11; v. 274; p. 250.
Watch. P. Benjamin and S. Burger. No. 1,340,003; May 11; v. 274; p. 329.
Watch-barrel. H. A. Borresen. No. 1,339,941; May 11; v. 274; p. 318.
Watch-stand. W. E. Beck. No. 1,340,859; May 18; v. 274; p. 548.
Water-closet. C. E. Shadall. No. 1,340,567; May 18; v. 274; p. 493.
Water-heater. E. Drevet. No. 1,341,048; May 25; v. 274; p. 656.
Water-heater. E. T. Wells. No. 1,338,760; May 4; v. 274; p. 21.
Water-motor. W. H. Ammons. No. 1,339,012; May 4; v. 274; p. 67.
Water-power apparatus. W. H. Wilber. 1,338,890; May 4; v. 274; p. 44.
Water-waste preventer. L. Davies. No. 1,339,690; May 11; v. 274; p. 271.
Waterer, Winter hog-. A. K. Pruden. No. 1,341,070; May 25; v. 274; p. 660.
Waterproofing composition and making and using same. S. P. Sollaway. No. 1,339,724; May 11; v. 274; p. 277.
Wave-changer and wave-meter. G. Hill. No. 1,338,984; May 4; v. 274; p. 61.
Weather-screen, Visual. S. A. de Normanville and L. H. Kent. No. 1,340,025; May 11; v. 274; p. 33.
Weather-strip, Door-bottom. W. G. Maxcy and W. A. Rideout. No. 1,339,775; May 11; v. 274; p. 286.
Weatherproofing, Window-. R. Norris. No. 1,341,434; May 25; v. 274; p. 730.
Weighing-machines, Electrically-operated releasing device for. C. H. Allen and J. L. Morris. No. 1,339,539; May 11; v. 274; p. 241.
Welded joint, Producing a rib on an electrically-. T. E., Jr., and J. B. Murray. No. 1,339,966; May 11; v. 274; p. 322.
Welded joint, Reinforced. D. H. Wilson and R. G. Hutton. No. 1,340,644; May 18; v. 274; p. 508.
Welding device, Electric. W. P. Bovard. No. 1,341,293; May 25; v. 274; p. 703.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,968; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,969; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,971; May 11; v. 274; p. 323.
Welding, Electrical. T. E., Jr., and J. B. Murray. No. 1,339,972; May 11; v. 274; p. 323.
Welding, Electrically. A. Schmidt. No. 1,340,412; May 18; v. 274; p. 464.
Welding, Joining metals by electric. C. H. Kicklighter. No. 1,340,170; May 18; v. 274; p. 419.
Welding-machine, Electrical. E. M. Bassler. No. 1,338,762; May 4; v. 274; p. 21.
Welding metal bodies, Electrically. T. E., Jr., and J. B. Murray. No. 1,339,967; May 11; v. 274; p. 322.
Welding, Multiple-arc. O. A. Kenyon. No. 1,340,056; May 11; v. 274; p. 339.
Well-cleaning apparatus. G. W. Russell. No. 1,340,295; May 18; v. 274; p. 441.
Well-curb. A. C. Giles. No. 1,341,551; May 25; v. 274; p. 753.
Well-screen. M. E. Layne. No. 1,339,898; May 11; v. 274; p. 309.
Wells, Apparatus for and process of lining. J. A. Hardel. No. 1,339,955; May 11; v. 274; p. 320.
Wells, Apparatus for raising liquids from deep. J. A. Hebert. No. 1,339,621; May 11; v. 274; p. 257.
Wet-coal mill. J. M. Schutz. No. 1,338,845; May 4; v. 274; p. 36.
Wheel: *See*—
Automobile-wheel. Spring-wheel.
Bull-wheel. Steering-wheel.
Car-wheel. Traction-wheel.
Metal wheel. Vehicle-wheel.
Resilient wheel. Wire wheel.
Sheet-metal wheel.
Wheel. V. L. Downing. No. 1,339,439; May 11; v. 274; p. 222.
Wheel. M. Lachman. No. 1,338,936; May 4; v. 274; p. 53.
Wheel. W. F. Pfau. No. 1,339,574; May 11; v. 274; p. 248.
Wheel. S. C. Rose. No. 1,339,376; May 4; v. 274; p. 134.
Wheel and tire, Solid. H. J. Ferris. No. 1,341,308; May 25; v. 274; p. 705.
Wheel construction, Band-. H. J. Lockhart. No. 1,339,852; May 11; v. 274; p. 301.
Wheel-drive mechanism, Front-. G. S. Duncan. No. 1,340,759; May 18; v. 274; p. 529.
Wheel equipment, Demountable-. J. S. Williams. No. 1,340,199; May 18; v. 274; p. 424.
Wheel-lift. W. L. Walton. No. 1,340,587; May 18; v. 274; p. 497.
Wheel of the sheet-metal type, Road-. H. Austin. No. 1,340,697; May 18; v. 274; p. 518.

Wheel-rim. A. E. Logan. No. 1,340,901; May 25; v. 274; p. 627.
Wheel-rim, Sectional. J. W. White. No. 1,340,094; May 11; v. 274; p. 346.
Wheel structure, Organized-. J. E. Strietelmeier. No. 1,339,676; May 11; v. 274; p. 268.
Wheel transmission, Star-. M. Figour. No. 1,338,823; May 4; v. 274; p. 32.
Wheels, Antiskid attachment for vehicle-. A. McCullough. No. 1,339,854; May 11; v. 274; p. 301.
Wheels, Antiskid device for automobile-. C. E. Mahan. No. 1,339,963; May 11; v. 274; p. 322.
Wheels, Antislipping device for vehicle-. S. R. McClay. No. 1,341,331; May 25; v. 274; p. 710.
Wheels, Machine for cleaning truck-. F. J. Wagner. No. 1,338,714; May 4; v. 274; p. 12.
Wheels, Manufacturing metal-spoke. E. Fulda. No. 1,340,945; May 25; v. 274; p. 635.
Wheels, Mud-cleaning mechanism for tractor-. H. L. Williams. No. 1,341,093; May 25; v. 274; p. 664.
Wheelbarrow. J. Keminskis. No. 1,340,898; May 25; v. 274; p. 626.
Winding and dyeing machine and winding and dyeing yarn and thread. J. A. Firsching. No. 1,339,184; May 4; v. 274; p. 99.
Winding-reel. A. J. Hare. No. 1,340,712; May 18; v. 274; p. 520.
Windmill. C. F. Currey. No. 1,341,045; May 25; v. 274; p. 655.
Window attachment. M. P. Dysart. No. 1,339,178; May 4; v. 274; p. 98.
Window, Automobile curtain-. J. M. Simmons. No. 1,341,082; May 25; v. 274; p. 662.
Window cleaner and wiper. E. E. Ricks. No. 1,341,590; May 25; v. 274; p. 760.
Window-frame. H. P. Davis. No. 1,339,170; May 4; v. 274; p. 96.
Window-lock. J. Bulanda. No. 1,340,876; May 25; v. 274; p. 622.
Window-lock. F. Iucolano. No. 1,341,173; May 25; v. 274; p. 680.
Window, Reversible. F. Fournier. No. 1,341,366; May 25; v. 274; p. 717.
Window-screen. F. J. Schoch. No. 1,340,797; May 18; v. 274; p. 536.
Window-screen, Metallic. E. Luft. No. 1,339,464; May 11; v. 274; p. 227.
Window-wiping device. G. H. Russell. No. 1,340,794; May 18; v. 274; p. 536.
Windows, Means for automatically closing. L. M. Phelps. No. 1,341,155; May 25; v. 274; p. 676.
Windows, Protector of celluloid curtain-. J. Robb. No. 1,340,912; May 25; v. 274; p. 629.
Windshield, Auxiliary. E. C. Hilliman. No. 1,339,889; May 11; v. 274; p. 308.
Windshield-cleaner. L. H. Morse and J. J. Tracy. No. 1,339,216; May 4; v. 274; p. 105.
Windshield-cleaner, Duplex. H. C. Tripp. No. 1,339,241; May 4; v. 274; p. 109.
Windshield-joint, Sliding. C. P. Chamberlin. No. 1,341,413; May 25; v. 274; p. 726.
Windshield, Vehicle-. L. A. Hill. No. 1,341,464; May 25; v. 274; p. 736.
Wire-coiling machine. F. L. Andren. No. 1,340,516; May 18; v. 274; p. 483.
Wire-coiling machine. A. G. Sailer. No. 1,340,296; May 18; v. 274; p. 441.
Wire-conduits, End closure for. H. M. Temple and P. Kearney. No. 1,341,398; May 25; v. 274; p. 723.
Wire fabric. J. S. Barnes. No. 1,339,541; May 11; v. 274; p. 242.
Wire-line clamp. P. M. Rea. No. 1,339,419; May 11; v. 274; p. 218.
Wire-line clamps, Liner for. P. M. Rea. No. 1,339,420; May 11; v. 274; p. 218.
Wire-stretcher. W. C. Mitchell. No. 1,339,407; May 11; v. 274; p. 216.
Wire ties, Tool for twisting. H. B. Foulder. No. 1,341,459; May 25; v. 274; p. 736.
Wire wheel, detachable. J. F. Jinkner. No. 1,340,773; May 18; v. 274; p. 532.
Wire-winding device. J. C. Layman. No. 1,340,064; May 11; v. 274; p. 340.
Wireless transmission of speech. E. C. Hanson. No. 1,341,232; May 25; v. 274; p. 691.
Wood being distilled, Holder for. A. C. Badger. No. 1,338,667; May 4; v. 274; p. 3.
Wood, Fireproofing. H. F. Weiss. No. 1,339,488; May 11; v. 274; p. 232.
Wood, Ornamenting. H. E. De Vries. No. 1,339,259; May 4; v. 274; p. 112.
Wood, Recovery of organic products from. H. F. Weiss. No. 1,339,489; May 11; v. 274; p. 232.
Wood-refuse burner. J. P. Walsh. No. 1,339,729; May 11; v. 274; p. 278.
Work-support. A. Bates. No. 1,340,143; May 18; v. 274; p. 413.
Woven carrier. G. W. Spalding. No. 1,338,794; May 4; v. 274; p. 27.
Woven carrier. C. I. Sullivan. No. 1,338,797; May 4; v. 273; p. 28.
Woven pocketed carrier. G. W. Spalding. No. 1,338,795; May 4; v. 274; p. 27.
Wrapping-machine. H. Y. Armstrong. No. 1,341,408; May 25; v. 274; p. 725.
Wrapping-machine. W. B. Munn. No. 1,340,665; May 18; v. 274; p. 512.
Wrapping-machines, Paper-feeding device for. R. Leumann. No. 1,341,184; May 25; v. 274; p. 682.
Wrench: *See*—
Pipe-wrench. Ratchet-wrench.
Wrench. A. B. Apgar. No. 1,341,532; May 25; v. 274; p. 749.
Wrench. A. Nikander. No. 1,340,287; May 18; v. 274; p. 439.
Wrench. H. B. Winter. No. 1,341,094; May 25; v. 274; p. 665.
Wrenches, Making. H. T. Roberts. No. 1,340,560; May 18; v. 274; p. 492.
Yoke, Draw-bar. C. E. Bauer. No. 1,339,940; May 11; v. 274; p. 318.
Yoke or shoulder-weight carrier. R. P. Orr. No. 1,340,076; May 11; v. 274; p. 342.
Zinc oxid, Treating. F. G. Breyer and E. H. Bunce. No. 1,339,544; May 11; v. 274; p. 242.
Zinc oxid, Treating. F. G. Breyer and E. H. Bunce. No. 1,339,545; May 11; v. 274; p. 242.
Zinc solutions, Purification of. H. Sulman and S. Field. No. 1,341,601; May 25; v. 274; p. 762.
Zither, Keyed. G. L. Reynolds. No. 1,341,072; May 25; v. 274; p. 660.

ALPHABETICAL LIST OF DESIGNS.

Article of manufacture. H. T. Abolin. No. 55,108; May 11; v. 274; p. 356.
Article of manufacture. A. Flint. Nos. 55,261–3; May 25; v. 274; pp. 774–5.
Auto-curtain window. R. Haley. No. 55,169; May 18; v. 274; p. 555.
Automobile. Harry A. Miller. No. 55,070; May 4; v. 274; p. 146.
Automobile-body. C. M. Shaw. 55,334; May 25; v. 274; p. 787.
Automobile-fenders. H. L. Berg. No. 55,237; May 25; v. 274; p. 770.
Automobile-horn casing. G. R. Marsico. Nos. 55,292–5; May 25; v. 274; p. 780.
Automobile-radiator ornament. E. P. Ekman. No. 55,259; May 25; v. 274; p. 774.
Badge. D. E. Victor. No. 55,344; May 25; v. 274; p. 788.
Badge, button, or similar article. J. Drake. No. 55,252; May 25; v. 274; p. 773.
Badge, emblem, or similar article. H. E. Alsterlund. Nos. 55,013–4; May 4; v. 274; p. 136.
Ball, Golf-. J. C. Robertson. No. 55,330; May 25; v. 274; p. 786.
Basket, Novelty-. T. Kirchen. No. 55,055; May 4; v. 274; p. 143.
Belt. F. F. Knothe. No. 55,056; May 4; v. 274; p. 143.
Belt-clasp. W. E. Rounseville. Nos. 55,081–2; May 4; v. 274; p. 148.
Belt-clasp. W. E. Rounsevill. No. 55,197; May 18; v. 274; p. 560.
Beverage-dispensing device. C. M. Earl. No. 55,121; May 11; v. 274; p. 358.
Bezel. A. S. Alexander. No. 55,230; May 25; v. 274; p. 769.
Bottle-cap. C. Hammer. No. 55,125; May 11; v. 274; p. 359.
Bottle, Perfumery-. R. Campdera and F. Ayala. No. 55,024; May 4; v. 274; p. 138.
Box, Housemaid's. T. G. Blood. No. 55,023; May 4; v. 274; p. 138.
Brassière-hook. D. C. Warner and F. L. Langhammer. No. 55,219; May 18; v. 274; p. 563.
Buckle frame, Belt-. E. M. Davis. Nos. 55,150–5; May 18; v. 274; p. 552.
Buckle frame, Belt-. E. M. Davis. No. 55,250; May 25; v. 274; p. 773.
Buckle frame, Belt-. L. W. Shields. Nos. 55,198–213; May 18; v. 274; pp. 560–2.
Burner, Oil-. R. L. Doran. No. 55,028; May 4; v. 274; p. 138.
Button. J. R. Bellis. No. 55,018; May 4; v. 274; p. 137.
Button. C. Hallauer. No. 55,037; May 4; v. 274; p. 140.
Button, badge, or similar article. J. Aisenstein. No. 55,229; May 25; v. 274; p. 769.
Button, brooch, badge, or similar article. N. B. Le Duc. No. 55,061; May 4; v. 274; p. 144.
Cabinet, Phonograph-. M. W. Mix. No. 55,298; May 25; v. 274; p. 781.
Cabinet, Phonograph-. R. W. Morrison. No. 55,073; May 4; v. 274; p. 146.

Cabinet, Phonograph-. J. H. Weber. No. 55,220; May 18; v. 274; p. 564.
Cabinet, Phonographic-disk-record. E. M. Howard. No. 55,045; May 4; v. 274; p. 141.
Cabinet, Talking-machine. M. F. Fybush. No. 55,033; May 4; v. 274; p. 139.
Cabinet, Talking-machine. L. Roberts. No. 55,329; May 25; v. 274; p. 786.
Cabinet, Talking-machine. D. C. Williams. No. 55,103; May 4; v. 274; p. 151.
Cabinet, Talking-machine. H. B. Wolper. Nos. 55,226–7; May 18; v. 274; p. 565.
Calendar-holder, Loose-leaf-pad. F. A. Weeks. No. 55,221; May 18; v. 274; p. 564.
Candelabrum. S. H. Leavenworth. Nos. 55,183–5; May 18; v. 274; p. 557.
Candle. C. J. Messer. No. 55,066; May 4; v. 274; p. 145.
Car, Child's riding-. C. A. Barden. No. 55,234; May 25; v. 274; p. 770.
Card-holder. F. A. Fuller. No 55,266; May 25; v. 274; p. 775.
Cemetery-lot coping. J. E. Lutz. No. 55,064; May 4; v. 274; p. 144.
Chandelier arm, Electric-. C. Bresloff. No. 55,242; May 25; v. 274; p. 771.
Chandelier top, Electric-. C. Bresloff. No. 55,241; May 25; v. 274; p. 771.
Clock-case. S. A. Dulczewski. No. 55,120; May 11; v. 274; p. 358.
Clock-casing. H. W. Bennet. No. 55,019; May 4; v. 274; p. 137.
Collar-clip. K. Staufenbell. No. 55,214; May 18; v. 274; p. 563.
Collar, Fold-. H. F. Hurd. No. 55,128; May 11; v. 274; p. 359.
Cooker-pot. W. Luttringhaus. No. 55,187; May 18; v. 274; p. 558.
Cooking-receptacle. C. A. Massing. No. 55,188; May 18; v. 274; p. 558.
Costume, Woman's or miss's. H. M. Buck. No. 55,244; May 25; v. 274; p. 772.
Cup, Sundae-. A. F. Saunders. No. 55,085; May 4; v. 274; p. 148.
Curtain and shade hanger. M. Dubish. No. 55,157; May 18; v. 274; p. 553.
Curtain-pole and shade bracket. C. A. Husser. No. 55,274; May 25; v. 274; p. 777.
Cuspidor. W. F. Koken. No. 55,130; May 11; v. 274; p. 360.
Dashboards, Seepage-intercepting attachment for. H. and L. Hoffman. No. 55,172; May 18; v. 274; p. 555.
Dish, Carving-. G. H. Berwick. No. 55,238; May 25; v. 274; p. 771.
Dish or receptacle. J. L. Wentz. No. 55,222; May 18; v. 274; p. 564.
Dish-washing machine. F. E. Wolcott. No 55,351; May 25; v. 274; p. 790.
Display-stand. J. P. Stetson. No. 55,098; May 4; v. 274; p. 151.
Doll. J. D. Benvenuti. No. 55,020; May 4; v. 274; p. 137.
Doll. F. B. Hatch. No. 55,040; May 4; v. 274; p. 141.
Doll-head. A. Neble. No. 55,074; May 4; v. 274; p. 146.
Doll, Sammy Sandman. F. Obrecht. No. 55,076; May 4; v. 274; p. 147.
Egg-beater. M. O. Thompson. No. 55,340; May 25; v. 274; p. 788.
Emblem, badge, or similar article. A. G. Seeholzer. No. 55,088; May 4; v. 274; p. 149.
Emblem, badge, pin, fob, ring, or like article. R. L. Hatfield. No. 55,041; May 4; v. 274; p. 141.
Emblem, badge, pin, ornament, or similar article. F. L. Wilmarth. No. 55,105; May 4; v. 274; p. 152.
Fabric for decorative purposes, Textile. C. Waugh. Nos. 55,345–6; May 25; v. 274; pp. 788–9.
Fabric, Textile. J. H. Bunting. Nos. 55,245–7; May 25; v. 274; p. 772.
Fabric, Textile. H. F. Dommenge, Jr. No. 55,251; May 25; v. 274; p. 773.
Fabric, Textile. A. Eisele. Nos. 55,254–8; May 25; v. 274; pp. 773–4.
Fabric, Textile. E. Krupicka. Nos. 55,279–85; May 25; v. 274; pp. 778–9.
Fabric, Textile. L. F. Orcutt. Nos. 55,304–8; May 25; v. 274; p. 782.
Fabric, Textile. R. L. Reinhart. Nos. 55,324–6; May 25; v. 274; p. 785.
Fabric, Textile. W. G. Reith. Nos. 55,320–3; May 25; pp. 784–5.
Fan, Hand or toilet. I. H. Lesem; No. 55,062; May 4; v. 274; p. 144.
Flag. W. F. Ivy. No. 55,275; May 25; v. 274; p. 777.
Flag. J. C. M. Garnett. No. 55,034; May 4; v. 274; p. 139.
Flag, banner, pennant, emblem, or similar article. A. R. W. Bassett. No. 55,235; May 25; v. 274; p. 770.
Flag, Naval service-. J. J. McKee. No. 55,069; May 4; v. 274; p. 146.
Flag or similar article, Service-. A. A. Huebsch. No. 55,273; May 25; v. 274; p. 777.
Flag, pennant, sign, emblem, or article of a similar nature. W. H. McMasters. No. 55,297; May 25; v. 274; p. 781.
Flash-lights, Adapter-head for. R. M. Eaton. No. 55,253; May 25; v. 274; p. 773.
Fountain, Sanitary. T. Lloyd. No. 55,063; May 4; v. 274; p. 144.
Game apparatus. J. Sharpe. No. 55,092; May 4; v. 274; p. 150.
Gem-setting. W. Fischer. No. 55,260; May 25; v. 274; p. 774.
Glove. H. A. Taylor. No. 55,339; May 25; v. 274; v. 787.
Goggles. F. Willson. No. 35,104; May 4; v. 274; p. 152.
Golf-club head. A. A. Kraeuter. No. 55,278; May 25; v. 274; p. 777.
Grate, Fireplace-. J. F. Adams. No. 55,228; May 25; v. 274; p. 769.
Hairpin. A. Janiecz. No. 55,052; May 4; v. 274; p. 142.
Hamper, Clothes-. I. E. Loewenberg. No. 55,289; May 25; v. 274; p. 779.
Headlight-bracket. J. L. P. Landry. No. 55,182; May 18; v. 274; p. 557.
Headlight replacement unit. H. W. Brown. No. 55,243; May 25; v. 274; p. 771.
Heater, Electric. M. H. Shoenberg and G. J. Henry. No. 55,336; May 25; v. 274; p. 787.
Heater, Gas-. J. H. Grayson. No. 55,168; May 18; v. 274; p. 555.
Heel. H. Hess. No. 55,127; May 11; v. 274; p. 359.
Heel, Shoe-. W. E. Durham. No. 55,158; May 18; v. 274; p. 553.
Ice-cream scoop. V. Talbot. No. 55,215; May 18; v. 274; p. 563.
Insulator-porcelain for electric ovens. F. W. Moffat. No. 55,071; May 4; v. 274; p. 146.
Jack, Lifting-. E. E. Arnold. Nos. 55,015–6; May 4; v. 274; p. 136–7.
Jack, Lifting-. E. E. Arnold. Nos. 55,232–3; May 25; v. 274; p. 770.
Jar, Compartment-. W. A. Reaper. No. 55,319; May 25; v. 274; p. 784.
Knife and bottle-opener, Combined pocket-. J. P. Haddix. No. 55,123; May 11; v. 274; p. 358.
Label. E. R. Allard. No. 55,113; May 11; v. 274; p. 357.
Lace. P. Eberhart. No. 55,030; May 4; v. 274; p. 139.
Lace for trimming purposes. W. H. Smith. No. 55,095; May 4; v. 274; p. 150.
Lamp, Auto tail-. W. Berk. No. 55,021; May 4; v. 274; p. 137.
Lamp-box. S. Smiglelski. No. 55,093; May 4; v. 274; p. 150.
Lamp bulb, Electric-. O. W. Cook. No. 55,248; May 25; v. 274; p. 772.
Lamp cleaner, Carbid-. W. G. Luttinger. No. 55,290; May 25; v. 274; p. 779.
Lamp-globe canopy. J. W. Gosling. Nos. 55,165–7; May 18; v. 274; p. 554.
Lamp-globe canopy. J. A. O'Neil. No. 55,303; May 25; v. 274; p. 781.
Lamp handle and supporting-bracket, Electric-. R. E. Williams. No. 55,349; May 25; v. 274; p. 789.
Lamp-shade. R. V. Owen. No. 55,195; May 18; v. 274; p. 559.
Lamp shade, Electric-. W. S. MacLewee. No. 55,291; May 25; v. 274; p. 780.
Lamp-stand, Combination. L. J. Ripich. No. 55,327; May 25; v. 274; p. 785.
Lamps, Light diffusing and projecting attachment for automotive. O. M. Otte. Nos. 55,309–11; May 25; v. 274; pp. 782–3.
Lens. A. G. Miller and C. McMullen. No. 55,191; May 18; v. 274; p. 559.
Lens, Automobile-headlight. W. H. Sturgeon. Nos. 55,337–8; May 25; v. 274; p. 787.
Lever for a sprinkler-head or similar article, Retainer-. J. R. Hamilton. No. 55,038; May 4; v. 274; p. 140.
Light, Casing for a stage flood-. R. McCargar. No. 55,189; May 18; v. 274; p. 558.
Lighting-fixture. A. Ullman. No. 55,341; May 25; v. 274; p. 788.
Lighting-fixture bowl. F. S. Crowell. No. 55,249; May 25; v. 274; p. 772.
Lighting-fixture plate. G. Westphal. No. 55,347; May 25; v. 274; p. 789.
Lighting-fixtures, Globe for. F. W. Mathieu. No. 55,296 May 25; v. 274; p. 780.
Liquid-projecting device. M. W. Bailey. No. 55,017; May 4; v. 274; p. 137.
Medal. A. de Lautreppe and H. M. Mesrines. No. 55,027; May 4; v. 274; p. 138.
Milk-jar. G. F. McDonnell and J. J. Dandoy. No. 55,068; May 4; v. 274; p. 145.
Mirror, Wrist-. M. Kominkiewicz. No. 55,277; May 25; v. 274; p. 777.
Motor-scooter. G. Campling. No. 55,148; May 18; v. 274; p. 551.
Musical instrument. A. Kregling. No. 55,058; May 4; v. 274; p. 143.
Pad-rack. S. D. Page. No. 55,077; May 4; v. 274; p. 147.
Paper, Embossed wall-. A. Ainsworth. Nos. 55,109–12; May 11; v. 274; p. 356.
Paper, Embossed wall-. W. F. Roehlin. No. 55,139; May 11; v. 274; p. 361.
Paper-weight. A. Neilson. No. 55,299; May 25; v. 274; p. 781.
Pennant. A. E. Langlois. No. 55,286; May 25; v. 274; p. 779.

Phonograph. W. Thorpe. No. 55,217; May 18; v. 274; p. 563.
Phonograph-case and cabinet, Combined. E. Forrest. No. 55,159; May 18; v. 274; p. 553.
Phonograph-casing. G. R. Kunkle. No. 55,181; May 18; v. 274; p. 557.
Phonograph-casing. S. L. M. Pearson. 55,196; May 18; v. 274; p. 560.
Phonograph-motor top-plate. M. Nystrom. No. 55,194; May 18; v. 274; p. 559.
Phonograph-needle. R. Steinert. No. 55,097; May 4; v. 274; p. 150.
Phonograph-record. M. Kazanjian. No. 55,053; May 4; v. 274; p. 142.
Phonograph sound-reproducer S. S. Schiff. No. 55,333; May 25; v. 274; p. 786.
Pin, badge, or similar article, Hero service. N. Hanson. No. 55,270; May 25; v. 274; p. 776.
Pin or similar article. T. Heath. No. 55,042; May 4; p. 274; p. 141.
Pin, Service-. W. A. Hartline. No. 55,039; May 4; v. 274; p. 140.
Plate or similar article. J. Gunther. No. 55,269; May 25; v. 274; p. 776.
Plate or similar article. J. Holland. No. 55,272; May 25; v. 274; p. 776.
Plate, Serving-. C. Torgeson. No. 55,218; May 18; v. 274; p. 563.
Post. H. A. Landwehr. No. 55,134; May 11; v. 274; p. 360.
Powder-can or similar receptacle. C. S. Humphrey. No. 55,047; May 4; v. 274; p. 142.
Powder-container. C. S. Humphrey. No. 55,046; May 4; v. 274; p. 141.
Prism-glass. E. G. Johanson. No. 55,276; May 25; v. 274; p. 777.
Pruning-tool. R. B. Williams. No. 55,350; May 25; v. 274; p. 790.
Purse. C. A. Nichthauser. Nos. 55,192–3; May 18; v. 274; p. 559.
Purse. C. A. Nichthauser. No. 55,300; May 25; v. 274; p. 781.
Radiator. F. E. Bradfield. No. 55,145; May 18; v. 274; p. 551.
Radiator. J. A. Hinger. No. 55,043–4; May 4; v. 274; p. 141.
Radiator. E. H. Oversmith. No. 55,312; May 25; v. 274; p. 783.
Radiator-cap ornament. H. H. Moor. No. 55,072; May 4; v. 274; p. 146.
Range, Combination coal and gas. J. J. Toomey. (Reissue.) Nos. 14,866–7; May 25; v. 274; pp. 768–9.
Ring, Finger-. C. Sheer. No. 55,335; May 25; v. 274; p. 787.
Rubber heel-pad for boots and shoes. J. E. Barney. No. 55,116; May 11; v. 274; p. 357.
Rubber sole-pad for boots and shoes. J. E. Barney. Nos. 55,114–15; May 11; v. 274; p. 357.
Salt-cellar. J. Hirsch. No. 55,271; May 25; v. 274; p. 776.
Sconce for a lighting-fixture or similar article. G. J. Vester. No. 55,342; May 25; v. 274; p. 788.
Searchlight. A. C. Wood. No. 55,106; May 4; v. 274; p. 152.
Shoe-plate. L. Hasel. No. 55,126; May 11; v. 274; p. 359.
Signal, Inclosing casing for an automobile-. G. J. Zels. No. 55,353; May 25; v. 274; p. 790.
Signal, Motor-vehicle. F. A. Wescott. Nos. 55,223–4; May 18; v. 274; p. 564.
Sled, Child's. M. F. Sullivan. No. 55,099; May 4; v. 274; p. 151.
Sleigh, Child's. G. E. Worth. No. 55,352; May 25; v. 274; p. 790.
Spark-intensifier, Housing for. M. H. J. Masonoff. No. 55,065; May 4; v. 274; p. 145.
Spark-plug shell. H. F. Kumler and I. R. Rystedt. No. 55,133; May 11; v. 274; p. 360.
Sole-pad for boots and shoes, Cushion. L. M. Van Wagner and J. A. Duffy. No. 55,343; May 25; v. 274; p. 788.
Sole, Shoe-. E. Phillips. No. 55,318; May 25; v. 274; p. 784.
Spoon. H. G. Essayan. No. 55,031; May 4; v. 274; p. 139.
Spoon, fork, or similar article. A. G. Kintz. No. 55,180; May 18; v. 274; p. 557.
Spoon, fork, or similar article. H. Knott. No. 55,131; May 11; v. 274; p. 360.
Spoon, fork, or similar article handle. A. H. Staf. No. 55,096; May 4; v. 274; p. 150.
Spring support and hanger. T. Delikat. No. 55,156; May 18; v. 274; p. 553.
Sprinkler-head or similar article. J. R. Hamilton. No. 55,124; May 11; v. 274; p. 359.
Sprinkler-head or similar article, Frame for. J. R. Hamilton. No. 55,170; May 18; v. 274; p. 555.
Stamp, Hand-. M. S. Miller. No. 55,137; May 11; v. 274; p. 361.
Statuette. R. A. Patterson. No. 55,316; May 25; v. 274; p. 784.
Statuette. B. E. Rieg and E. B. Williams. No. 55,138; May 11; v. 274; p. 361.
Stove, Gas-. A. H. Humphrey. Nos. 55,173–8; May 18; v. 274; p. 556.
Stove radiant, Gas-. W. D. Antrim. No. 55,231; May 25; v. 274; p. 769.
Sundae-holder. A. F. Saunders. No. 55,086; May 4; v. 274; p. 149.
Surf-board. D. L. Ranlett. No. 55,079; May 4; v. 274; p. 147.
Switch base, Plural-pole entrance-. I. R. Seltzer. No. 55,090; May 4; v. 274; p. 149.
Table, Physician's. T. Lidberg. No. 55,186; May 18; v. 274; p. 558.
Tablet, Memorial. C. H. Sedell, C. C. Whelan, and M. Belfry. No. 55,089; May 4; v. 274; p. 149.
Tableware article, Hollow. china. J. B. McDonald. No. 55,067; May 4; v. 274; p. 145.
Tableware, Article of hollow. V. Gaertner. Nos. 55,160–4; May 18; v. 274; pp. 553–4.
Talking-machine sound-conducting device. F. Cirelli. No. 55,025; May 4; v. 274; p. 138.
Tape. F. Wiberley. No. 55,348; May 25; v. 274; p. 789.
Tire. I. V. Humphrey. No. 55,048; May 4; v. 274; p. 142.
Tire. E. J. Kraft. No. 55,132; May 11; v. 274; p. 360.
Tire. E. L. Lawlor. No. 55,287; May 25; v. 274; p. 779.
Tire. E. A. Reid. No. 55,080; May 4; v. 274; p. 147.
Tire. A. B. Schleicher. No. 55,087; May 4; v. 274; p. 149.
Tire. W. Seabridge. No. 55,140; May 11; v. 274; p. 362.
Tire. J. Tenney, Jr. No. 55,100; May 4; v. 274; p. 151.
Tire. J. Tenney, Jr. No. 55,216; May 18; v. 274; p. 563.
Tire. E. A. Tinsman. No. 55,142; May 11; v. 274; p. 362.
Tire, Automobile-. J. B. Gabeline. No. 55,122; May 11; v. 274; p. 358.
Tire-casing. W. C. Owen. Nos. 55,313–15; May 25; v. 274; p. 783.
Tire casing, Tread of a pneumatic-. J. L. Hanley. No. 55,171; May 18; v. 274; p. 555.
Tire, Elastic vehicle-. F. E. Shannon. No. 55,091; May 4; v. 274; p. 149.
Tire, Elastic vehicle-. E. H. Trump. No. 55,101; May 4; v. 274; p. 151.
Tire, Non-skid. W. E. Duerster. Nos. 55,118–19; May 11; v. 274; p. 357–8.
Tire or similar article, Automobile-. J. J. Novak. Nos. 55,301–2; May 25; v. 274; p. 781.
Tire, Pneumatic. E. O. Sterns. No. 55,141; May 11; v. 274; p. 362.
Tire-tread. M. L. A. A. Allard. No. 55,144; May 18; v. 274; p. 550.
Tire-tread. G. E. Bennie. No. 55,236; May 25; v. 274; p. 770.
Tire-tread. A. L. Breitenstein. Nos. 55,146–7; May 18; v. 274; p. 551.
Tire-tread. W. H. Clarke. No. 55,026; May 4; v. 274; p. 138.
Tire-tread or similar article. G. C. McConnell. No. 55,190; May 18; v. 274; p. 559.
Tire tread, Pneumatic-. L. E. Kraft. No. 55,057; May 4; v. 274; p. 143.
Tire, Vehicle-. A. L. Breitenstein. Nos. 55,239–40; May 25; v. 274; p. 771.
Tire, Vehicle-. G. C. Large. No. 55,059; May 4; v. 274; p. 143.
Tire, Vehicle-. G. N. Schell. No. 55,332; May 25; v. 274; p. 786.
Tire, Vehicle-. H. J. Smith. No. 55,094; May 4; v. 274; p. 150.
Toothbrush-casing. E. H. and E. K. Wiersching. No. 55,143; May 11; v. 274; p. 362.
Towel-urn. W. F. Koken. No. 55,129; May 11; v. 274; p. 359.
Toy. J. Tabara. No. 55,083; May 4; v. 274; p. 148.
Toy aeroplane. L. B. Nicholas. No. 55,075; May 4; v. 274; p. 147.
Toy animal. K. Pasecky. No. 55,078; May 4; v. 274; p. 147.
Toy automobile. H. W. A. Fuhrmann. No. 55,032; May 4; v. 274; p. 139.
Toy, Flying. W. H. Van Shrum. No. 55,102; May 4; v. 274; p. 151.
Toy known as a go-beel. A. L. Greenfield. No. 55,036; May 4; v. 274; p. 140.
Toy motion-picture machine. I. Marks. No. 55,107; May 4; v. 274; p. 152.
Toy top. A. E. Sandstrom. No. 55,084; May 4; v. 274; p. 148.
Toy vehicle. W. R. Peoples. No. 55,317; May 25; v. 274; p. 784.
Trace link, Chain-. E. P. Belz. No. 55,117; May 11; v. 274; p. 357.
Tractor. R. L. Williamson. No. 55,225; May 18; v. 274; p. 564.
Trail-marker. J. B. Blair. No. 55,022; May 4; v. 274; p. 137.
Type, Font of. F. W. Goudy. No. 55,267; May 25; v. 274; p. 776.
Type, Font of Syriac. S. A. Jacobs. Nos. 55,049–51; May 4; v. 274; p. 142.
Umbrella or parasol handle. W. M. Follmer. No. 55,264; May 25; v. 274; p. 775.

Valve, Balloon-. J. S. Maxwell. No. 55,135; May 11; v. 274; p. 361.
Vehicle, Child's. H. R. Keeney. No. 55,054; May 4; v. 274; p. 143.
Vehicle, Child's. C. O. and W. M. Roberts. No. 55,328; May 25; v. 274; p. 786.
Vending-machine casing. F. R. Greene. No. 55,268; May 25; v. 274 p. 776.
Wagon, Boy's. R. Larson. No. 55,060; May 4; v. 274; p. 144.
Watch-bow. A. M. Dueber. No. 55,029; May 4; v. 274; p. 139.
Watch case and bow. J. McGrevy. No. 55,136; May 11; v. 274; p. 361.
Watch-movements, Top plate for. A. Friedman. No. 55,265; May 25; v. 274; p. 775.
Watch-stand. L. M. Giroux. No. 55,035; May 4; v. 274; p. 140.
Water-heater casing. R. J. Hutchins. No. 55,179; May 18; v. 274; p. 557.
Wind instrument, Bell for a brass-. F. Cheney. No. 55,149; May 18; v. 274; p. 551.
Windshield. A. C. Lillie. No. 55,288; May 25; v. 274; p. 779.

ALPHABETICAL LIST OF TRADE-MARKS.

Abrasives. American Abrasive Company. No. 130,603; May 4; v. 274; p. 181.
Account-books, Bank-deposit. F. A. Gesell. No. 130,730; May 4; v. 274; p. 175.
Accountants' books. A. van Sand. No. 131,256; May 4; v. 274; p. 201.
Acid, Sulfuric. Collinsville Zinc Corporation. No. 131,292; May 11; v. 274; p. 399.
Adhesives. Great Western Products Co. Nos. 131,764–5; May 25; v. 274; p. 831.
Advertising display apparatus, Electric. C. D. Oversmith. No. 130,856; May 4; v. 274; p. 189.
Aeroplane-dope. Pratt & Lambert. No. 131,580; May 18; v. 274; p. 607.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 131,861; May 25; v. 274; p. 834.
Alloy rolls for rolling-mills, &c. Philadelphia Roll & Machine Company. No. 130,865; May 4; v. 274; p. 189.
Amusement devices. W. N. Ridgway. No. 130,883; May 4; v. 274; p. 189.
Anesthetics. H. A. Metz Laboratories. No. 131,346; May 11; v. 274; p. 401.
Anodyne, antiseptic, and local anesthetic. Tilden Company. No. 131,852; May 25; v. 274; p. 834.
Anti-epileptic, anticephalalgic, hypnotic, and sedative preparations. The Eli Lilly & Company. No. 131,747; May 25; v. 274; p. 831.
Antiseptic, Liquid. A. S. Mann. No. 131,547; May 18; v. 274; p. 606.
Apparel, Female-. L. Marx. No. 131,800; May 25; v. 274; p. 832.
Apparel, Wearing. H. D. Lee Mercantile Co. No. 130,792; May 4; v. 274; p. 187.
Apples, Fresh. F. S. Millichamp. No. 130,929; May 4; v. 274; p. 191.
Apples, Fresh. Yucaipa Apple Growers' Association. No. 131,274; May 4; v. 274; p. 201.
Articles on current events for children. M. C. Syndicate. No. 131,186; May 4; v. 274; p. 198.
Aspirin and photo-engraving chemicals. Albany Chemical Company. No. 131,392; May 18; v. 274; p. 601.
Aspirin, Liquid. J. H. Collier. No. 131,432; May 18; v. 274; p. 602.
Automobile and furniture polish. N. & P. Varnishfood Company. No. 131,869; May 25; v. 274; p. 835.
Automobile-dashes, Sheltering troughs for protecting coils on. C. A. Gareau. No. 131,115; May 4; v. 274; p. 196.
Automobile starting devices. Ace Manufacturing Company. No. 130,596; May 4; v. 274; p. 181.
Automobiles. Vreeland Motor Co. No. 131,260; May 4; v. 274; p. 201.
Automobiles. Ward Motor Vehicle Company. No. 130,984; May 4; v. 274; p. 192.
Automobiles and motor-cars. Templar Motors Corporation. No. 131,246; May 4; v. 274; p. 200.
Automobiles and motor-trucks. Peerless Motor Car Company. No. 130,862; May 4; v. 274; p. 189.
Automobiles and motor-trucks, Passenger-. Piedmont Motor Car Company. No. 131,212; May 4; v. 274; p. 199.
Automobiles, automobile-radiators, and wheel-hub caps. Argonne Motor Car Co. No. 131,025; May 4; v. 274; p. 194.
Automobiles, automobile-trucks, and suspension-cylinders therefor. Air-O-Flex Automobile Corporation. Nos. 131,687–8; May 25; v. 274; p. 829.
Automobiles, Pleasure-. Commonwealth Motors Co. No. 131,069; May 4; v. 274; p. 195.
Awning in the nature of wind-shield protector. H. W. Weed. No. 131,266; May 4; v. 274; p. 201.
Axles and springs for vehicles. Standard Parts Company. No. 130,928; May 4; v. 274; p. 191.
Axles, shaft, gears, Locomotive and machinery. Pollak Steel Company. No. 131,364; May 11; v. 274; p. 401.
Bacon, Breakfast-. John Morrell & Co. No. 131,915; May 25; v. 274; p. 836.
Bacon, hams, lard, &c. William Davies Company. No. 130,695; May 4; v. 274; p. 184.
Bags, beaded sautoires, necklaces, Bead and metal. Jules Schwab & Co. No. 131,608; May 18; v. 274; p. 608.
Bags, Grain-. Marshall Field & Company. No. 130,816; May 4; v. 274; p. 187.
Bait-hooks and ice-tongs. E. R. Davis. No. 131,296; May 11; v. 274; p. 399.
Bandage, Elastic. Becton, Dickinson & Co. No. 130,635; May 4; v. 274; p. 182.
Bandages, Catamenial. Individual Drinking Cup Company. No. 130,762; May 4; v. 274; p. 186.
Batteries, Dry storage. J. P. Mentzer. No. 130,829; May 4; v. 274; p. 188.
Bearing metal. American Non-Ferrous Metals Corporation. No. 130,609; May 4; v. 274; p. 181.
Bearings, balls, and rollers, &c., Antifriction. Fafnir Bearing Co. No. 131,109; May 4; v. 274; p. 196.
Bearings, Steel balls for ball-. H. Baker & Co. No. 130,632; May 4; v. 274; p. 182.
Beating and mixing machines, Electrically-driven. The Hobart Manufacturing Company. No. 131,490; May 18; v. 274; p. 604.
Bedspreads, sheets, &c. E. K. Rhoads. No. 131,220; May 4; v. 274; p. 199.
Beer, sarsaparilla, &c., Birch and root. Rainier Products Company. No. 131,587; May 18; v. 274; p. 607.
Beverage and syrup for making same, Non-alcoholic. S. Klausner. No. 131,519; May 18; v. 274; p. 605.
Beverage and syrup for making same, Non-alcoholic. R. B. Wingate. No. 131,675; May 18; v. 274; p. 610.
Beverage and syrup for making same, Non-alcoholic non-cereal maltless. J. Groetsch. No. 131,472; May 18; v. 274; p. 603.
Beverage and syrup for making same, Non-alcoholic non-cereal maltless. The Thrill Exploiting Co. No. 131,639; May 18; v. 274; p. 609.
Beverage and syrups for making the same, Non-alcoholic. E. J. Delahanty. No. 131,734; May 25; v. 274; p. 830.
Beverage, Bottled non-alcoholic. C. H. Thom. No. 131,636; May 18; v. 274; p. 609.
Beverage, Carbonated non-alcoholic. Alpine Co. No. 131,690; May 25; v. 274; p. 829.
Beverage, Cereal malt. Jetter Beverage Company. No. 131,330; May 11; v. 274; p. 400.
Beverage, Cereal malt. Jetter Beverage Company. No. 131,508; May 18; v. 274; p. 604.
Beverage made of malt and cereals. Adam Scheidt Beverage Company. No. 131,606; May 18; v. 274; p. 608.
Beverage, Malt. Hartmann & Fehrenbach Products Co. No. 131,319; v. 274; p. 400.
Beverage, Malt. Independent Brewing Company of Pittsburgh. Nos. 131,326–7; May 11; v. 274; p. 400.
Beverage, Non-alcoholic. Boedeker & Co. No. 131,414; May 18; v. 274; p. 601.
Beverage, Non-alcoholic. F. J. Catterlin. No. 131,425; May 18; v. 274; p. 602.
Beverage, Non-alcoholic. Celro-Kola Co. No. 131,426; May 18; v. 274; p. 602.
Beverage, Non-alcoholic. Home Distributing Co. No. 131,493; May 18; v. 274; p. 604.
Beverage, Non-alcoholic. Pure Beverage Company. No. 131,582; May 18; v. 274; p. 607.
Beverage, Non-alcoholic, &c., sold as a soft drink. Monarch Mfg. Co. No. 131,348; May 11; v. 274; p. 401.
Beverage, Non-intoxicating. Birk Brothers Brewing Company. No. 131,285; May 11; v. 274; p. 399.
Beverage, Non-intoxicating. Boyce Extract Co. No. 131,419; May 18; v. 274; p. 601.
Beverage, Non-intoxicating. Chill-O Company. No. 131,430; May 18; v. 274; p. 602.
Beverage-punch, sold as a soft drink, Non-alcoholic. Arrow Products Co. No. 131,405; May 18; v. 274; p. 601.
Beverage, syrups, flavoring extracts, colors, &c. Ver-Vac Company. No. 131,870; May 25; v. 274; p. 835.
Beverages. Ray & Frazier. No. 130,889; May 4; v. 274; p. 190.
Beverages and syrups. Horlacher Brewing Co. No. 131,776; May 25; v. 274; p. 832.
Beverages and syrups for making same, Non-alcoholic. Thornton Mineral Springs Company. No. 131,638; May 18; v. 274; p. 609.
Beverages and syrups for making same, Non-alcoholic. World Bottling Co. No. 131,679; May 18; v. 274; p. 610.
Beverages and syrups, Non-alcoholic. The Hygeria Beverage Co. No. 131,497; May 18; v. 274; p. 604.
Beverages and syrups, Non-alcoholic. E. W. Laporte. No. 131,525; May 18; v. 274; p. 605.
Beverages, Extract for non-alcoholic. B. A. Hoehl. No. 131,908; May 25; v. 274; p. 836.
Beverages, Malt. Anzac Company. No. 131,700; May 25; v. 274; p. 829.

Beverages, Malt. Massachusetts Breweries Company. No. 131,914; May 25; v. 274; p. 836.
Beverages, Non-alcoholic. W. Bachrack. No. 131,705; May 25; v. 274; p. 829.
Beverages, Non-alcoholic. Hoddle Brothers. No. 131,775; May 25; v. 274; p. 832.
Beverages, Non-alcoholic. Jackson Brewing Company. No. 131,504; May 18; v. 274; p. 604.
Beverages, Non-alcoholic. Jackson Brewing Company. No. 131,785; May 25; v. 274; p. 832.
Beverages, Non-alcoholic. Sh-h! Company. No. 131,591; May 18; v 274; p. 607.
Beverages, Non-intoxicating. Whistle Bottling Co. No. 131,668; May 18; v. 274; p. 610.
Beverages and syrups for making same, Non-alcoholic. C. L. Shearer. No. 131,835; May 25; v. 274; p. 833.
Beverages, Non-intoxicating fruit. G. Loewns & Co. No. 131,912; May 25; v. 274; p. 836.
Binding-strips, tapes, and stocking-supporters. Nichols Underwear Corporation. No. 131,917; May 25; v. 274; p. 831.
Biscuit. National Biscuit Company. No. 131,197; May 4; v. 274; p. 199.
Blackings, creams, and polishes for leather articles. Société Anonyme des Produits du Lion Noir. No. 131,839; May 25; v. 274; p. 834.
Blankets and flannels in the piece and made of cotton, Cotton. American Trading Company. No. 131,022; May 4; v. 274; p. 193.
Blankets, Cotton. Nashua Manufg. Company. Nos. 131,195–6; May 4; v. 274; p. 199.
Bleaching fluid. F. Cormond. No. 131,437; May 18; v. 274; p. 602.
Blight exterminator. T. Benton. No. 131,411; May 18; v. 274; p. 601.
Bloater, anchovy, sardine, and salmon pastes, &c. L. Klima. No. 131,521; May 18; v. 274; p. 605.
Blouses and shirtwaists, Ladies'. C. Raab. No. 130,873; May 4; v. 274; p. 189.
Blue, Laundry. National Blue Corporation. Nos. 131,803–5; May 25; v. 274; p. 832.
Bluing, Laundry. C. A. Murdock Mfg. Co. No. 131,556; May 18; v. 274; p. 606.
Boiler compounds. Corrosanti Chemical Co. No. 131,294; May 11; v. 274; p. 399.
Book-marks. J. J. Vanderveer. No. 131,656; May 18; v. 274; p. 609.
Boots and shoes. Converse Rubber Shoe Co. No. 130,686; May 4; v. 274; p. 183.
Boots and shoes. Richards & Brennan Co. No. 130,882; May 4; v. 274; p. 189.
Boots and shoes. A. Ruff's Sons. No. 130,898; May 4; v. 274; p. 190.
Boots and shoes. Wm. Kaut Footwear Company. Nos. 130,771–4; May 4; v. 274; p. 186.
Boots and shoes for men, Leather. F. M. Schumacher. No. 130,980; May 4; v. 274; p. 190.
Boots and shoes for misses and children. Wm. Kaut Footwear Company. No. 131,147; May 4; v. 274; p. 197.
Boots and shoes, Leather. The Emerson Shoe Company. Nos. 130,711–13; May 4; v. 274; p. 182.
Boots and shoes, Leather. Knipe Bros., Inc. No. 131,789; May 25; v. 274; p. 832.
Boots and shoes, Leather. Locke Shoe Co. No. 130,798; May 4; v. 274; p. 189.
Boots and shoes, Leather. F. Mayer Boot & Shoe Co. No. 131,801; May 25; v. 274; p. 832.
Boots and shoes, Men's leather. Foot, Schulze & Co. No. 131,112; May 4; v. 274; p. 196.
Boots or shoes. Slater & Morrill. No. 131,238; May 4; v. 274; p. 200.
Boots, overshoes, gum shoes, &c. The Firestone Tire and Rubber Company. No. 130,720; May 4; v. 274; p. 184.
Boots, shoes, and slippers. Rice & Hutchins. No. 130,880; May 4; v. 274; p. 189.
Boots, shoes, leggings, or puttees. A. E. Little Company. No. 131,172; May 4; v. 274; p. 198.
Boots, shoes, slippers, sandals, Leather. Wm. Kaut Footwear Co. No. 131,148; May 4; v. 274; p. 197.
Bottles, Glass. M. Niven. No. 130,850; May 4; v. 274; p. 188.
Braids and passementerie. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 131,088–92; May 4; v. 274; pp. 195–6.
Bread. A. Bakke. No. 131,031; May 4; v. 274; p. 194.
Bread. Bixler Baking Co. No. 130,640; May 4; v. 274; p. 182.
Bread. Everett, Augenbaugh & Co. No. 131,108; May 4; v. 274; p. 196.
Bread. Haller Baking Company. No. 130,743; May 4; v. 274; p. 185.
Bread. C. F. Hathaway & Sons. No. 130,748; May 4; v. 274; p. 185.
Bread. F. A. Heroux. No. 131,137; May 4; v. 274; p. 197.
Bread. Ivan B. Nordhem Company. No. 131,566; May 18; v. 274; p. 606.
Bread. Pratt Bread Company. No. 130,869; May 4; v. 274; p. 189.
Bread. A. Reznikove. No. 130,878; May 4; v. 274; p. 189.
Bread. T. Roulston. No. 130,896; May 4; v. 274; p. 190.
Bread. Ward Baking Company. No. 131,264; May 4; v. 274; p. 201.
Bread, cakes, and pastry. Haller Baking Company. No. 131,132; May 4; v. 274; p. 197.
Bread, cakes, pies, pastry. J. E. Aubry. No. 131,027; May 4; v. 274; p. 194.
Bread-making machinery and accessories. Bake-Rite Oven Mfg. Company. No. 131,407; May 18; v. 274; p. 601.
Bread, rolls, cakes, pies, &c. Keebler Weyl Baking Co. No. 130,775; May 4; v. 274; p. 186.
Bread-slicing machines. Liberty Bread Slicer Company. No. 131,338; May 11; v. 274; p. 401.
Brick, Fire-. Pyro Products Company. No. 130,872; May 4; v. 274; p. 189.
Broadcloth. Turner & Walls. No. 131,644; May 18; v. 274; p. 609.
Bronze ingots, castings, rods, &c. Bridgeport Brass Company. No. 131,421; May 18; v. 274; p. 602.
Bronzework for buildings, Architectural. Dymalkon Metals Corporation. No. 131,095; May 4; v. 274; p. 196.
Brooms and whisk-brooms. Deshler Broom Factory. Nos. 130,697–8; May 4; v. 274; p. 184.
Brushes and brooms, Device for cleaning bristle. H. Frankenstein. No. 131,464; May 18; v. 274; p. 603.
Brushes for dynamos and electric motors. Morgan Crucible Compy. No. 131,192; May 4; v. 274; p. 199.
Brushes, shoe brushes and daubers, Hair and clothes. J. Morrison, Jr. No. 130,836; May 4; v. 274; p. 188.
Brushes, Tooth, nail, hair, bath, and face. A. Bourjois & Co. No. 130,650; May 4; v. 274; p. 182.
Buckles, Shoe Hardware Company. No. 130,914; May 4; v. 274; p. 190.
Buckles for personal wear. Whitehouse Brothers. No. 130,993; May 4; v. 274; p. 193.
Buildings, Knockdown. W. A. Fortner. No. 131,113; May 4; v. 274; p. 196.
Burners, Hydrocarbon-. J. Scheminger, Jr. No. 131,897; May 25; v. 274; p. 835.
Burs and broaches for dental use. Usona Dental Company. No. 130,963; May 4; v. 274; p. 192.
Butter. V. Lopez & Company. No. 131,535; May 18; v. 274; p. 605.
Butter. Vasold Brothers. No. 131,657; May 18; v. 274; p. 609.
Butter, olive-oil, rice, dried fruits, coffee. Wm. T. Reynolds & Co. No. 130,877; May 4; v. 274; p. 189.
Buttermilk, Powdered. Collis Products Company. No. 130,677; May 4; v. 274; p. 183.
Buttons. International Button Co. No. 130,763; May 4; v. 274; p. 186.
Buttons, Shoe-. Compagnie Francaise Des Boutons De La Marque J. P. No. 131,896; May 25; v. 274; p. 835.
Cakes and crackers. Candy Cake Corporation. No. 130,960; May 4; v. 274; p. 195.
Calcimine, paints, and varnishes. The Charles H. Brown Paint Company. No. 131,714; May 25; v. 274; p. 830.
Calendar-pads. Samuel C. Tatum Co. No. 131,850; May 25; v. 274; p. 834.
Candies. A. R. Alfoth. No. 130,600; May 4; v. 274; p. 181.
Candies. T. Backó. No. 131,029; May 4; v. 274; p. 194.
Candies. E. J. Brach and Sons. No. 131,287; May 11; v. 274; p. 399.
Candies. Fuerst & Kraemer. No. 131,114; May 4; v. 274; p. 196.
Candies. R. F. Keppel & Bro. No. 130,777; May 4; v. 274; p. 186.
Candies. McDowell, Pyle & Co. No. 130,804; May 4; v. 274; p. 187.
Candies. Mason City Candy Co. No. 130,818; May 4; v. 274; p. 187.
Candies. Samoset Chocolate Co. No. 130,902; May 4; v. 274; p. 190.
Candies. Shutter Johnson Candy Co. No. 131,510; May 18; v. 274; p. 604.
Candies. Sunnyland Fruit Company. No. 130,938; May 4; v. 270; p. 191.
Candies. V. Vivaudou. No. 130,969; May 4; v. 274; p. 192.
Candies and chocolate. Mason, Au & Magenheimer Conf. Mfg. Co. No. 130,817; May 4; v. 274; p. 187.
Candies and chocolates. D. A. P. Confectionery. No. 130,693; May 4; v. 274; p. 184.
Candies and confections, Marshmallow. Henry Heide, Incorporated. No. 131,488; May 18; v. 274; p. 604.
Candies, Chocolate. A. B. Mewhinney Co. Inc. No. 131,190; May 4; v. 274; p. 199.
Candies, Chocolate. Rueckheim Bros. & Eckstein. No. 130,897; May 4; v. 274; p. 190.
Candies, cocoa, jellies, peanut-butter, &c. Bishop & Company. No. 130,639; May 4; v. 274; p. 182.
Candies, Hard. Weber-Schlitz Candy Co. No. 131,667; May 18; v. 274; p. 610.
Candy. Paul F. Beich Co. No. 130,636; May 4; v. 274; p. 182.
Candy. Beinhauer Bros. Candy Co. No. 131,035; May 4; v. 274; p. 194.
Candy. J. S. Bell Confectionery Company. No. 131,036; May 4; v. 274; p. 194.
Candy. C. A. Crane. No. 131,071; May 4; v. 274; p. 195.
Candy. J. O. Gilbert. No. 131,118; May 4; v. 274; p. 196.
Candy. A. Greitve. No. 130,739; May 4; v. 274; p. 185.
Candy. E. Kappas. No. 131,106; May 4; v. 274; p. 196.
Candy. C. C. Mahan. No. 130,808; May 4; v. 274; p. 187.
Candy. L. T. Malone. No. 130,822; May 4; v. 274; p. 188.
Candy. T. Marquetand. No. 131,184; May 4; v. 274; p. 198.
Candy. A. B. Mewhinney Co. No. 131,189; May 4; v. 274; p. 199.

Candy. Sears, Roebuck & Co. Nos. 131,235–6; May 4; v. 274; p. 200.
Candy. Shutter-Johnson Candy Co. No. 130,916; May 4; v. 274; p. 190.
Candy. United Drug Company. No. 130,956; May 4; v. 270; p. 191.
Candy. The Walter M. Lowney Company. No. 130,800; May 4; v. 274; p. 187.
Candy. Walter M. Lowney Company. Nos. 131,175–7; May 4; v. 274; p. 198.
Candy. Williams Chocolate Co. No. 131,672; May 18; v. 274; p. 610.
Candy. P. Wunderle. No. 131,006; May 4; v. 274; 193.
Candy and fruit tablets. Charms Company. Nos. 130,669–70; May 4; v. 274; p. 183.
Candy, Chocolate. Watters Candy Company. No. 131,929; May 25; v. 274; p. 836.
Candy, Chocolate. Williams Chocolate Company. No. 130,996; May 4; v. 274; p. 193.
Candy, Chocolate-coated. L. T. Malone. No. 130,823; May 4; v. 274; p. 188.
Canned condensed milk. Hencken & Burner. No. 131,321; May 11; v. 274; p. 400.
Canned fish. M. Beck. No. 130,634; May 4; v. 274; p. 182.
Canned fish. C. E. Van Landingham. No. 131,868; May 25; v. 274; p. 835.
Canned fish. L. A. Sea Food Packing Co. No. 130,911; May 4; v. 274; p. 190.
Canned fish. L. A. Sea Food Packing Co. No. 131,174; May 4; v. 274; p. 198.
Canned fish. Lawrence Canning Co. No. 130,790; v. 274; p. 187.
Canned fruits. Golden State Canneries. No. 131,904; May 25; v. 274; p. 836.
Canned fruits. Harbor City Canning Company. No. 131,483; May 18; v. 274; p. 604.
Canned fruits. C. E. Van Landingham. No. 131,254; May 4; v. 274; p. 201.
Canned fruits. Manteca Packing Company. No. 131,344; May 11; v. 274; p. 401.
Canned fruits. Manteca Packing Company. No. 131,799; May 25; v. 274; p. 832.
Canned fruits. Charles Stern & Sons Inc. No. 131,243; May 4; v. 274; p. 200.
Canned fruits. Western Canning Company. No. 131,387; May 11; v. 274; p. 402.
Canned fruits. Western Canning Company. No. 131,881; May 25; v. 274; p. 835.
Canned fruits and vegetables. Croker Packing Co. No. 131,295; May 11; v. 274; p. 399.
Canned fruits and vegetables. Emery Food Co. No. 131,103; May 4; v. 274; p. 196.
Canned fruits and vegetables. A. Rupert Company. No. 131,923; May 25; v. 274; p. 836.
Canned fruits, vegetables, and fish. Hale Company. No. 131,131; May 4; v. 274; p. 197.
Canned meats, soup, &c. Boston Food Products Company. No. 130,649; May 4; v. 274; p. 182.
Canned red and green peppers, &c. Pomona Products Co. No. 131,919; May 25; v. 274; p. 836.
Canned salmon. Aberdeen Packing Co. No. 131,012; May 4; v. 274; p. 193.
Canned salmon. Hans. Barnch & Co. No. 131,905; May 25; v. 274; p. 836.
Canned salmon. Kelley-Clarke Co. No. 130,776; May 4; v. 274; p. 186.
Canned salmon. New York Pacific Commercial Company. No. 130,849; May 4; v. 274; p. 188.
Canned salmon and herring. Alaska Salmon & Herring Jackers. No. 130,598; May 4; v. 274; p. 181.
Canned sugar-corn. Warrensburg Canning Company. No. 130,986; May 4; v. 274; p. 192.
Canned tomatoes, &c. Italian Food Products Co. No. 131,503; May 18; v. 274; p. 604.
Canned vegetables. General Coffee & Tea Co. No. 131,309; May 11; v. 274; p. 400.
Canned vegetables. E. Gernert. No. 130,729; May 4; v. 274; p. 185.
Canned vegetables. Grimes-Perry Canning Company. No. 131,316; May 11; v. 274; p. 400.
Canned vegetables. The Sears and Nichols Canning Company. No. 130,912; May 4; v. 274; p. 190.
Cans, Ash, garbage, and oil. M. Kamenstein. No. 130,769; May 4; v. 274; p. 170.
Caps and hats for men and children. J. P. Cody. No. 130,675; May 4; v. 274; p. 183.
Caps and hats, Men's and boys'. Langenberg Hat Company. No. 131,011; May 4; v. 274; p. 193.
Carbon-remover. Fearless Products Manufacturing Corporation. No. 131,306; May 11; v. 274; p. 400.
Cards, Filing-. Record Card Co. No. 130,874; May 4; v. 274; p. 189.
Carpet-sweepers. Scott-Fetzer Company. No. 131,367; May 11; v. 274; p. 401.
Cars and exports thereof, Railway-. Commonwealth Steel Company. No. 130,680; May 4; v. 274; p. 183.
Castings. Vermilion Malleable Iron Company. No. 131,659; May 18; v. 274; p. 609.
Castings and forgings, Steel. Edgewater Steel Company. No. 131,741; May 25; v. 274; p. 830.
Castings, forgings, &c., of iron and steel. Philadelphia Roll & Machine Company. No. 130,864; May 4; v. 274; p. 189.
Castings, Malleable. The T. H. Symington Company. No. 131,633; May 18; v. 274; p. 609.
Cement, stucco, plaster. American Pozzolana Company. No. 130,612; May 4; v. 274; p. 181.
Cereal food. J. R. West. No. 131,267; May 4; v. 274; p. 201.
Chains and chain-slings. Newhall Chain Forge & Iron Co. No. 130,847; May 4; v. 274; p. 188.
Charcoal. R. MacKellar's Sons Co. No. 131,181; May 4; v. 274; p. 198.
Cheese, olives, canned goods, &c. Iwan Burger, Inc. No. 131,057; May 4; v. 274; p. 195.
Chemical preparation containing the properties of a manure. Hawker & Botwood Ltd. No. 131,771; May 25; v. 274; p. 831.
Chemicals. Seydel Manufacturing Company. No. 131,830; May 25; v. 274; p. 833.
Cherry phosphate, birch and root beers, &c. Glering Bottling Company. No. 131,310; May 11; v. 274; p. 400.
Chocolate and candies. E. Greenfield's Sons. No. 131,314; May 11; v. 274; p. 400.
Chocolate and cocoa. Stollwerck Brothers. No. 130,934; May 4; v. 274; p. 191.
Chocolate, Milk-. The Maurice Company. No. 130,821; May 4; v. 274; p. 188.
Chocolate, Sweet. Boldemann Chocolate Company. No. 130,646; May 4; v. 274; p. 182.
Chocolates. D. Auerbach & Sons. No. 131,279; May 11; v. 274; p. 399.
Chocolates. The Brecht Candy Company. No. 130,651; May 4; v. 274; p. 182.
Chocolates. The Brecht Candy Company. Nos. 131,053–5; May 4; v. 274; p. 194.
Chocolates. C. A. Crane. No. 131,729; May 25; v. 274; p. 830.
Chocolates. D. A. Rand. No. 131,586; May 18; v. 274; p. 607.
Churns and parts thereof, Butter-. International Manufacturing Company of Texas. No. 131,501; May 18; v. 274; p. 604.
Cigarette-paper. Liggett & Myers Tobacco Company. No. p. 191.
Cigarettes. The Bloch Bros. Tobacco Co. Nos. 130,642–3; 130,796; May 4; v. 274; p. 187.
Cigarettes. J. J. Turney. No. 130,952; May 4; v. 274; May 4; v. 274; p. 182.
Cigars. Francis H. Leggett & Co. No. 130,793; May 4; v. 274; p. 187.
Cigars. Marcelino Perez & Company. No. 130,813; May 4; v. 274; p. 187.
Cigars. C. F. Stout. No. 130,935; May 4; v. 274; p. 191.
Cigars and cigarettes. P. Elle. No. 130,709; May 4; v. 274; p. 184.
Cigars and cigarettes. W. J. Pinder. No. 130,866; May 4; v. 274; p. 189.
Cleaner for fabrics and leather. A. Selz. No. 131,237; May 4; v. 274; p. 200.
Cleanser in powdered form. Universal Cleaner Co. No. 131,860; May 25; v. 274; p. 834.
Cleaners, Vacuum-. A/S Det Almindelige Handelskompagni. No. 131,078; May 4; v. 274; p. 195.
Cleaning compound for removing carbon, &c., from the hands. N. S. McIntosh. No. 131,179; May 4; v. 274; p. 198.
Cleaning fluid for polishing metal surfaces. J. F. Blawn. No. 131,042; May 4; v. 274; p. 194.
Cleansing preparation. Laundry Supplies Corporation. No. 131,163; May 4; v. 274; p. 198.
Cleaning preparation for cleaning fabrics. S. M. Spencer. No. 131,617; May 18; v. 274; p. 608.
Clocks and watches. L. P. White. No. 130,991; May 4; v. 274; p. 193.
Clotheslines. Krenning-Schlapp Grocer Company. No. 130,786; May 4; v. 274; p. 186.
Clothing. American Import Co. No. 130,606; May 4; v. 274; p. 181.
Clothing. American La France Fire Engine Co. No. 130,607; May 4; v. 274; p. 181.
Clothing. S. Ballin. No. 131,032; May 4; v. 274; p. 194.
Clothing. A. J. Coccaro & Co. No. 131,724; May 25; v. 274; p. 830.
Clothing, Boys' and children's. Elder Manufacturing Co. No. 131,098; May 4; v. 274; p. 196.
Clothing for men and boys. Perkins Dry Goods Company. No. 131,209; May 4; v. 274; p. 199.
Coal. King Coal Company. No. 130,779; May 4; v. 274; p. 186.
Coal. A. S. Nowlin & Co. No. 130,851; May 4; v. 274. p. 188.
Coal, Bituminous. The Evans Coal Company. No. 130,716; May 4; v. 274; p. 184.
Coal-treating substance. Coal Conservation Company. No. 131,291; May 11; v. 274; p. 399.
Coats. P. Sangoff. No. 131,233; May 4; v. 274; p. 200.
Coats and suits, Ladies'. Ritter Brothers. No. 130,885; May 4; v. 274; p. 189.
Coats and vests for men, women, and children, Outer. St. Paul Garment Mfg. Co. No. 131,847; May 25; v. 274; p. 834.
Coats, pants, drawers, &c., Dress and work. The Virginia Overall & Shirt Corporation. No. 130,967; May 4; v. 274; p. 192.
Coats, Reversible leather. International Duplex Coat Co. No. 130,766; May 4; v. 274; p. 186.

Coats, vests, and trousers. J. M. Margolis. No. 130,814; May 4; v. 274; p. 187.
Coats, vests, pants, overcoats, Men's. Rosenberg Bros. & Co. Nos. 131,223–6; May 4; v. 274; p. 200.
Cocoanut-oil. India Refining Company. No. 131,499; May 18; v. 274; p. 604.
Coffee. Duncan Coffee Co. No. 130,703; May 4; v. 274; p. 184.
Coffee. Gordon, Sewall & Co. No. 131,312; May 11; v. 274; p. 400.
Coffee. The W. J. Shedd Company. No. 131,836; May 25; v. 274; p. 833.
Coffee. Woolson Spice Co. No. 131,002; May 4; v. 274; p. 193.
Coffee, Blended. M. A. Reinhard. No. 131,920; May 25; v. 274; p. 836.
Coffee, Roasted. Smart & Final Co. No. 130,923; May 4; v. 274; p. 191.
Coffee substitute. W. W. Dévore. No. 131,735; May 25; v. 274; p. 830.
Coffee substitute. F. F. Shoup. No. 130,915; May 4; v. 274; p. 190.
Coffee, tea, and flavoring extracts for foods. Page-Connell Coffee Company. No. 131,360; May 11; v. 274; p. 401.
Coffee, tea, spices, &c. Farmer Bros. No. 131,457; May 18; v. 274; p. 603.
Coffins, caskets, rough boxes. S. Merritt. No. 130,830; May 4; v. 274; p. 188.
Collars, cuffs, and bosoms. Reversible Collar Company. No. 131,219; May 4; v. 274; p. 199.
Colors. G. Siegle Company. No. 131,621; May 18; v. 274; p. 608.
Colors, dry and liquid dye-colors, &c., Aniline. Lanman & Kemp. No. 131,526; May 18; v. 274; p. 605.
Colors, Food. National Aniline & Chemical Company. Nos. 131,349–56; May 11; v. 274; p. 401.
Combs and buttons. American Hard Rubber Co. Nos. 131,017–18; v. 274; p. 193.
Combs and buttons for wearing-apparel. American Hard Rubber Company. No. 130,605; May 4; v. 274; p. 181.
Comminuting machinery, &c. Allis-Chalmers Manufacturing Company. No. 130,602; May 4; v. 274; p. 181.
Compound and ointment of iodin and oil. The William S. Merrill Company. No. 131,552; May 18; v. 274; p. 606.
Compound, Digestive. Sharp & Dohme. No. 131,832; May 25; v. 274; p. 833.
Compound for treating certain named diseases and affections, Liquid. Owl Drug Co. No. 131,812; May 25; v. 274; p. 833.
Concrete-mixers. G. C. Sheldon. No. 130,913; May 4; v. 274; p. 190.
Concrete mixing and molding machinery. Winget Limited. No. 130,998; May 4; v. 274; p. 193.
Condensers. Wireless Specialty Apparatus Company. No. 131,676; May 18; v. 274; p. 610.
Conduits and fittings. International Conduit Corporation. No. 131,500; May 18; v. 274; p. 604.
Confection. L. P. Larson, Jr., Company. No. 130,789; May 4; v. 274; p. 187.
Confection with a laxative ingredient. R. C. Traster. No. 131,641; May 18; v. 274; p. 609.
Confectionery. All-Qual-Sweets Co. No. 131,891; May 25; v. 274; p. 835.
Construction material. General Insulating & Manufacturing Company. No. 131,116; May 4; v. 274; p. 196.
Construction material, Plastic. Sterling Products Company. No. 131,242; May 4; v. 274; p. 200.
Cooking, Domestic. W. J. Jaeger. No. 131,329; May 11; v. 274; p. 400.
Cooking utensils, Aluminum and iron. The Griswold Manufacturing Company. No. 130,740; May 4; v. 274; p. 185.
Copper, brass, and bronze ingots, rods, &c. Bridgeport Brass Company. No. 131,056; May 4; v. 274; p. 195.
Cordage. American Steel Export Company. No. 131,892; May 25; v. 274; p. 835.
Cork. International Cork Company. No. 130,765; May 4; v. 274; p. 186.
Corn medicine and foot-powder. Bauer Chemical Co. Inc. No. 131,280; May 11; v. 274; p. 399.
Corsets. American Lady Corset Company. No. 131,019; May 4; v. 274; p. 193.
Corsets. International Corset Company. No. 131,142; May 4; v. 274; p. 197.
Corsets and brassières. Kops Bros. No. 130,784; May 4; v. 274; p. 186.
Corsets, corset waists, brassières. Linehan-Conover Company. No. 131,170; May 4; v. 274; p. 198.
Cosmetics. Philo-Derma Company. No. 131,577; May 18; v. 274; p. 607.
Cosmetics. Usit Mfg. Co. of America. No. 131,382; May 11; v. 274; p. 402.
Cosmetics for the hair, perfumes, &c. Crown Perfumery Company. No. 131,731; May 25; v. 274; p. 830.
Cotton, Baled. Southwest Cotton Company. No. 130,927; May 4; v. 274; p. 191.
Cotton goods in the piece. Prince Lauten Co. No. 131,581; May 18; v. 274; p. 607.
Cotton piece and dress goods. Pacific Mills. No. 131,205; May 4; v. 274; p. 199.
Cotton piece goods. Chas. Kohlman Co. No. 131,159; May 4; v. 274; p. 198.
Cotton piece goods. Cohn Hall Marx Co. No. 131,479; May 18; v. 274; p. 603.
Cotton piece goods. Haas Brothers Fabrics Corporation. No. 131,476; May 18; v. 274; p. 603.
Cotton piece goods. Otis Co. No. 130,855; May 4; v. 274; p. 189.
Cotton piece goods. Taylor, Clapp & Beall. No. 131,851; May 25; v. 274; p. 834.
Cotton piece goods. Watts, Stebbins & Co. No. 131,666; May 18; v. 274; p. 610.
Cotton piece goods. Wilton Manufacturing Co. No. 130,997; May 4; v. 274; p. 193.
Cotton, silk, and silk and cotton mixture piece goods. Morcott Co. No. 131,554; May 18; v. 274; p. 606.
Cotton, silk, &c., piece goods and velvets and velveteens. W. H. Childs & Son. Nos. 131,428–9; May 18; v. 274; p. 602.
Cotton, wool, &c., piece goods. Manufacturers Textile Co. No. 131,548; May 18; v. 274; p. 606.
Crash goods. International Cotton Mills. No. 131,783; May 25; v. 274; p. 832.
Cream, Cold-. F. S. Parker. No. 131,571; May 18; v. 274; p. 607
Cream, Cold-. Velvoto Company. No. 131,658; May 18; v. 274; p. 609.
Cream, face, talcum, and tooth powders, Toilet. F. H. Young. Nos. 131,681–2; May 18; v. 274; p. 610.
Cream, Liquid face-. The Skowho Co. No. 131,615; May 18; v. 274; p. 608.
Cuff-links. McRae & Keeler. No. 131,798; May 25; v. 274; p. 832.
Cultivators, planters, &c. Harriman Manufacturing Company. No. 131,318; May 11; v. 274; p. 400.
Culture of nitrogen-fixing bacteria, Fertilizing. Pacific Nitrosoil Company. No. 131,813; May 25; v. 274; p. 833.
Cutlery. Dwight Divine & Sons. No. 130,706; May 4; v. 274; p. 150.
Cutlery. Huth & Co. No. 130,759; May 4; v. 274; p. 186.
Cutlery, machinery, and tools and parts thereof. John W. Bolton and Sons. No. 131,710; May 25; v. 274; p. 829.
Cutlery, razors, &c. Pocket-. Union Cutlery Co. No. 130,954; May 4; v. 274; p. 191.
Cutlery, razors, shears, and butcher-knives, Pocket-. Union Cutlery Co. No. 131,648; May 18; v. 274; p. 609.
Deodorants. V. Vivandou. No. 131,662; May 18; v. 274; p. 610.
Diaper-supporters. G. R. Bonebright. No. 131,043; May 4, v. 274; p. 194.
Diestocks, hand pipe-cutters, &c. Borden Company. No. 131,286; May 11; v. 274; p. 399.
Dimension-gages and attachments therefor. Pratt & Whitney Company. No. 130,870; May 4; v. 274; p. 189.
Dish-washing and sewing machines. Blue Bird Manufacturing Company. No. 131,413; May 18; v. 274; p. 601.
Dish-washing machines and parts thereof, Electric. Walcott Manufacturing Company. No. 131,887; May 25; v. 274; p. 835.
Disinfectant and germicide preparations. The Eli Lilly & Company. No. 131,452; May 18; v. 274; p. 603.
Doll, Walking. "Babs" Manufacturing Corporation. No. 130,631; May 4; v. 274; p. 182.
Dolls. L. C. Brintnall. No. 130,652; May 4; v. 274; p. 182.
Dolls. Pacific Novelty Company. No. 130,857; May 4; v. 274; p. 189.
Doughnut-machines. Baum & Schoel. No. 131,409; May 18; v. 274; p. 601.
Dresses. The Estelle Company. No. 130,715; May 4; v. 274; p. 184.
Dresses, L. Levy. No. 131,167; May 4; v. 274; p. 198.
Dresses, Infants' and children's. A. Millman. No. 130,834; May 4; v. 274; p. 188.
Drills. Detroit Twist Drill Co. No. 131,443; May 18; v. 274; p. 602.
Drills, grinders, &c., Electric track, spindle, and hammer. Chicago Pneumatic Tool Company. No. 131,065; May 4; v. 274; p. 195.
Drills in the piece, Cotton. Rice Stix Dry Goods Company. No. 131,221; May 4; v. 274; p. 200.
Drilling-machines, Fluid-pressure-operated. Ingersoll-Rand Company. No. 131,328; May 11; v. 274; p. 400.
Drinking-fountains and parts. Eastern Fountain Co. No. 130,708; May 4; v. 274; p. 184.
Drop-forged parts. The Duff Manufacturing Company. No. 131,302; May 11; v. 274; p. 399.
Drying machinery for the manufacture of clay and ceramic products. Philadelphia Drying Machinery Company. No. 131,361; May 11; v. 274; p. 401.
Dyes. American Aniline Products. No. 131,395; May 18; v. 274; p. 601.
Dyes. Lamie Chemical Company. No. 131,335; May 11; v. 274; p. 400.
Dyes, &c., Anilin. United States Color and Chemical Company. No. 131,651; May 18; v. 274; p. 609.
Dyes in soap form. J. S. Singer. No. 131,614; May 18; v. 274; p. 608.
Dyestuffs. Essex Aniline Works. No. 131,455; May 18; v. 274; p. 603.
Dyestuffs and chemicals. H. A. Metz. No. 131,553; May 18; v. 274; p. 606.
Edge-tools—viz., razors. A. H. Bryant. No. 130,661; May 4; v. 274; p. 183.

Edgings, Woven. R. Zinn. No. 131,275; May 4; v. 274; p. 201.
Egg cartons or cases. J. C. Voorhorst. No. 130,970; May 4; v. 274; p. 192.
Egg-cases, egg-case and cushion fillers, &c. Indiana Board & Filler Company. No. 130,761; May 4; v. 274; p. 186.
Eggs. The Fairmont Creamery Company. No. 131,305; May 11; v. 274; p. 400.
Eggs. John Morrell & Co. No. 130,835; May 4; v. 274; p. 188.
Eggs. X. Renaker. No. 131,218; May 4; v. 274; p. 199.
Eggs, poultry, and butter. J. Lynard. No. 130,801; May 4; v. 274; p. 187.
Elastics in the piece, Woven. Rice-Stix Dry Goods Company. No. 131,592; May 18; v. 274; p. 607.
Electric conduits, lighting and power fixtures. A. T. Sampson. No. 131,604; May 18; v. 274; p. 608.
Electric current for therapeutic purposes, Apparatus for generating, &c. McIntosh Battery and Optical Co. No. 130,805; May 4; v. 274; p. 187.
Electric generators and parts thereof, Magneto. American Bosch Magneto Corporation. No. 131,015; May 4; v. 274; p. 193.
Electric knife and safety-switches and panel-boards. Trumbull-Vanderpoel Electric Mfg. Co. No. 131,859; May 25; v. 274; p. 834.
Electric lighting and wiring fixtures. Harvey Hubbell, Incorporated. No. 130,746; May 4; v. 274; p. 185.
Electric-lighting plants. Black Swan Company. No. 131,412; May 18; v. 274; p. 601.
Electric-lighting plants. Black Swan Company. No. 131,709; May 25; v. 274; p. 829.
Electric power-generating and lighting plants. Marmon Chicago Company. No. 130,827; May 4; v. 274; p. 188.
Electric power-generating and lighting plants, Isolated. Universal Battery Company. No. 130,960; May 4; v. 274; p. 192.
Electric switches, Thermostatically-operated. American Fire Prevention Bureau. No. 131,397; May 18; v. 274; p. 601.
Electric warming-pads. Scientific Products Company. No. 130,909; May 4; v. 274; p. 190.
Electric wire. Atlantic Insulated Wire & Cable Company. No. 130,629; May 4; v. 274; p. 182.
Electrical apparatus. The Adams & Westlake Company. No. 131,393; May 18; v. 274; p. 601.
Electrical apparatus and supplies. American Steel Export Company. No. 130,614; May 4; v. 274; p. 181.
Electrical apparatus and supplies. Electric Controller & Manufacturing Company. No. 131,099; May 4; v. 274; p. 196.
Electrical flash-lights. General Illuminating Co. No. 130,728; May 4; v. 274; p. 185.
Electrical goods. Driver-Harris Company. No. 131,738; May 25; v. 274; p. 830.
Electrode-pads. McIntosh Battery & Optical Co. No. 130,806; May 4; v. 274; p. 187.
Electrodes, Flux or covered. Gensonite Welding Electrode Co. No. 131,903; May 25; v. 274; p. 836.
Embalming preparations. M. J. Hyland. No. 131,325; May 11; v. 274; p. 400.
Emulsion of milk, cream, &c. Machinery for effecting. Union Steam Pump Company. No. 131,249; May 8; v. 274; p. 200.
Engine reverse-gear, Steam-. American Locomotive Company. No. 131,278; May 11; v. 274; p. 399.
Engine-stands, portable cranes, &c. United Engine & Manufacturing Co. No. 130,957; May 4; v. 274; p. 192.
Engines and compressed-air motors. Handley Page Limited. No. 131,569; May 18; v. 274; p. 606.
Engines and parts therof, winches, and capstans. N. & S. Engine Co. No. 130,714; May 4; v. 274; p. 184.
Engines, Fluid for priming and starting internal-combustion. Albany Chemical Company. No. 131,394; May 18; v. 274; p. 601.
Engines, Gas-. Power Manufacturing Company. No. 131,215; May 4; v. 274; p. 199.
Engines, Internal-combustion. Fairbanks, Morse & Co. No. 131,456; May 18; v. 274; p. 603.
Engines, Internal-combustion. The Holt Manufacturing Company. No. 131,491; May 18; v. 274; p. 604.
Engines, locomotives, and their parts, motors, &c. Locomotive Pulverized Fuel Company. No. 131,534; May 18; v. 274; p. 605.
Expectorant and cough-sedative. Eli Lilly & Company. No. 131,304; May 11; v. 274; p. 399.
Explosive of the dynamite type, High. E. I. du Pont de Nemours & Company. No. 130,704; May 4; v. 274; p. 184.
Extracts and flavors. McCormick & Co. No. 130,803; May 4; v. 274; p. 187.
Eyeglass-cleaner. C. Jacknowitz. No. 131,505; May 18; v. 274; p. 604.
Fabric strips for underwear-trimmings. Julius Kayser & Co. No. 131,149; May 4; v. 274; p. 197.
Fabrics, Artificial-silk. Royal Embroidery Works, Naday & Fleischer. No. 131,228; May 4; v. 274; p. 200.
Fancy goods and notions, &c. Waldes & Company. No. 130,977; May 4; v. 274; p. 192.
Fancy goods and notions. Waldes & Company. No. 130,979; May 4; v. 274; p. 192.
Farm-tractors. Gray Tractor Company. No. 130,738; May 4; v. 274; p. 185.
Fastener, Snap-. Carr Fastener Company. No. 131,895; May 25; v. 274; p. 835.
Feed, Compound ground. Blatchford Calf Meal Company. No. 130,641; May 4; v. 274; p. 182.
Feed, Hog. Swift and Company. No. 131,632; May 18; v. 274; p. 609.
Feed, Poultry. The G. E. Conkey Co. Nos. 130,682–3; May 4; v. 274; p. 183.
Feed, Stock. Chas. A. Krause Milling Co. No. 130,785; May 4; v. 274; p. 186.
Feeds, Stock, &c. Barber & Bennett. No. 130,633; May 4; v. 274; p. 182.
Fenceposts, Metallic. Chicago Steel Post Company. No. 131,290; May 11; v. 274; p. 399.
Fertilizer. Coe-Mortimer Company. No. 131,725; May 25; v. 274; p. 820.
Fertilizers. Randall-McLoughlin & Co. No. 131,825; May 25; v. 274; p. 833.
Files, Document-. Safe-Cabinet Company. No. 130,901; May 4; v. 274; p. 190.
Fire-extinguishing powder compound. Select Products Sales Corporation. No. 131,368; May 11; v. 274; p. 402.
Fish. N. E. Megler. No. 131,187; May 4; v. 274; p. 198.
Fish, vegetable oils, and dressings for meats, &c. Musher & Company. No. 131,557; May 18; v. 274; p. 606.
Flasks, &c., Metal foundry-. Union Metal Manufacturing Company. No. 131,649; May 18; v. 274; p. 609.
Flatirons, Electric. Chicago Flexible Shaft Company. Nos. 131,063–4; May 4; v. 274; p. 195.
Flat-ware, Plated. Oneida Community. No. 131,204; May 4; v. 274; p. 199.
Flavoring extract for foods. H. Kohnstamm & Co. No. 130,780; May 4; v. 274; p. 186.
Flavoring extract for foods. H. Kohnstamm & Co. No. 131,161; May 4; v. 274; p. 198.
Flavoring extracts. National Fruit Flavor Co. No. 130,840; May 4; v. 274; p. 188.
Flavoring extracts. Southern Extract & Spice Co. No. 131,926; May 25; v. 274; p. 836.
Flavoring extracts and syrups. Limpert Bros., Inc. No. 130,797; May 4; v. 274; p. 187.
Flavoring extracts for foods. F. B. Chamberlain Company. No. 131,062; May 4; v. 274; p. 195.
Flour. R. C. Poage Milling Co. No. 131,214; May 4; v. 274; p. 199.
Flour. Ultramares Corporation. No. 131,248; May 4; v. 274; p. 200.
Flour, parched bran and wheat, &c., Pancake-. Pettijohn Pure Products Co. No. 131,576; May 18; v. 274; p. 607.
Flour, Rye-. Stern Milling Company. Nos. 130,930–1; May 4; v. 274; p. 191.
Flour, Self-rising. Garland Milling Company. No. 130,727; May 4; v. 274; p. 185.
Flour, Self-rising wheat-. Carlyle Milling Company. No. 131,061; May 4; v. 274; p. 195.
Flour, Self-rising wheat-. C. A. Gambrill Manuf'g Company. No. 130,726; May 4; v. 274; p. 185.
Flour, Self-rising wheat-. Hezel Milling Company. No. 131,138; May 4; v. 274; p. 197.
Flour, Self-rising wheat-. Roanoke City Mills. No. 130,892; May 4; v. 274; p. 190.
Flour, Wheat-. T. L. Carroll Company. No. 130,665; May 4; v. 274; p. 183.
Flour, Wheat-. The Colorado Milling & Elevator Co. No. 131,433; May 18; v. 274; p. 662.
Flour, Wheat-. Dorris Milling Company. No. 131,093; May 4; v. 274; p. 196.
Flour, Wheat-. Galbraith Milling Company. No. 130,725; May 4; v. 274; p. 185.
Flour, Wheat-. Gladney Milling Company. No. 131,123; May 4; v. 274; p. 197.
Flour, Wheat-. Hornor-Gaylord Company. No. 131,141; May 4; v. 274; p. 197.
Flour, Wheat-. International Milling Company. No. 131,910; May 25; v. 274; p. 836.
Flour, Wheat-. J. F. Lennon. No. 131,531; May 18; v. 274; p. 605.
Flour, Wheat-. The Mennel Milling Company. No. 131,551; May 18; v. 274; p. 606.
Flour, Wheat-. M. Mills. No. 131,188; May 4; v. 274; p. 199.
Flour, Wheat-. Nashville Roller Mills. No. 130,839; May 4; v. 274; p. 188.
Flour, Wheat-. Nashville Roller Mills. No. 131,194; May 4; v. 274; p. 199.
Flour, Wheat-. Rafael del Castillo & Co. No. 130,668; May 4; v. 274; p. 183.
Flour, Wheat-. Roanoke City Mills. No. 130,891; May 4; v. 274; p. 190.
Flour, Wheat-. The Robinson Milling Co. No. 130,894; May 4; v. 274; p. 190.
Flour, Wheat-. J. Rosenstein. No. 131,227; May 4; v. 274; p. 200.
Flour, Wheat-. Sparks Milling Company. No. 131,240; May 4; v. 274; p. 200.
Flour, Wheat-. Stokes Milling Co. No. 130,933; May 4; v. 274; p. 191.
Flour, Wheat-. W. P. Tanner-Gross & Company, Inc. No. 130,942; May 4; v. 274; p. 191.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 131,634; May 18; v. 274; p. 609.
Flour, Wheat-. Washburn Crosby Co. No. 131,665; May 18; v. 274; p. 610.
Fluid, Embalming. The Embalmers' Supply Company. No. 131,453; May 18; v. 274; p. 603.

Food-colors. National Aniline & Chemical Company, Inc. Nos. 131,558–61; May 18; v. 274; p. 606.
Food for live stock, Medicated. Parsons Chemical Works. No. 130,861; May 4; v. 274; p. 189.
Food paste. G. Kahan. No. 131,146; May 4; v. 274; p. 197.
Food, Prepared. James A. Alcardi & Sons. No. 131,686; May 25; v. 274; p. 829.
Foods. Austin, Nichols & Company. No. 130,630; May 4; v. 274; p. 182.
Foods and buckwheat flour, Breakfast cereal. Wolff Brothers. No. 131,272; May 4; v. 274; p. 201.
Foods and ingredients of foods. American Products Co. No. 130,613; May 4; v. 274; p. 181.
Foods and ingredients of food. The Borden Company. No. 130,647; May 4; v. 274; p. 182.
Foods and ingredients of foods. Retail Grocers Syndicate. No. 131,217; May 4; v. 274; p. 199.
Foods and ingredients of foods. Wellman-Peck & Co. No. 131,386; May 11; v. 274; p. 402.
Foods and ingredients of foods. Western Grocer Company. No. 131,268; May 4; v. 274; p. 201.
Foods, Infants', &c. Hensch Food Company. No. 131,136; May 4; v. 274; p. 197.
Footwear. P. H. Volk. No. 131,872; May 25; v. 274; p. 835.
Forgings, Steel. Sizer Forge Company. No. 131,622; May 18; v. 274; p. 608.
Formaldehyde, Sulfoxalate of sodium. Rohm & Haas Company. No. 131,600; May 18; v. 274; p. 608.
Fruit, Fresh. E. E. Connery. No. 131,293; May 11; v. 274; p. 399.
Fruits and avocados, Citrus. J. H. Derby. No. 131,442; May 18; v. 274; p. 602.
Fruits, Fresh. Cloud-Thomas Co. No. 130,674; May 4; v. 274; p. 183.
Fruits, Fresh citrus. M. Latimer. No. 131,345; May 11; v. 274; p. 401.
Fruits—namely, grapes, Fresh. V. D. Whitmore. No. 131,257; May 4; v. 274; p. 201.
Fudge and penochi. A. Eaton. No. 131,901; May 25, v. 274; p. 836.
Furniture and automobile polishes. Central Auto Supply Co. No. 131,720; May 25; v. 274; p. 830.
Furs, Dressed. Philip A. Singer & Bro. No. 130,920; May 4; v. 274; p. 190.
Games of jackstraws. Milton Bradley Company. No. 131,045; May 4; v. 274; p. 194.
Garment or wrap, Woman's outer. L. C. Chase & Company. No. 131,721; May 25; v. 274; p. 830.
Garments for men. National Shirt Shops. No. 130,842; May 4; v. 274; p. 188.
Garments for men and boys. Hirsch, Friedman Co. No. 131,140; May 4; v. 274; p. 197.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 131,067; May 4; v. 274; p. 195.
Garments, Overall-. The C. E. Ward Company. No. 130,983; May 4; v. 274; p. 192.
Garments, Sleeping-. Marshall Field & Company. No. 130,815; May 4; v. 274; p. 187.
Gasolene. Denver Powerine Company. No. 131,899; May 25; v. 274; p. 835.
Gasolene. Hickok Producing Company. No. 131,906; May 25; v. 274; p. 836.
Gasolene. Sherwood Bros. No. 131,925; May 25; v. 274; p. 836.
Gasolene, benzin, &c. Petroleum Products Co. No. 131,819; May 25; v. 274; p. 833.
Gelatin. Charles B. Knox Gelatine Company. No 131,911; May 25; v. 274; p. 836.
Ginger-ale. Equinox Mountain Spring, Inc. No. 131,454; May 18; v. 274; p. 603.
Ginger-ale. Rye-Ola Company. No. 131,602; May 18; v. 274; p. 608.
Ginger-ale. A. M. Schlesinger. No. 131,618; May 18; v. 274; p. 608.
Ginger-ale. Southwestern Coca-Cola Bottling Co. No. 131,842; May 25; v. 274; p. 834.
Ginger-ale, cream-soda, sarsaparilla, &c. Alpine Co. No. 131,689; May 25; v. 274; p. 829.
Ginger-ale, sarsaparilla, root-beer. American Stores Company. No. 131,401; May 18; v. 274; p. 601.
Girdles, brassières, hip-reducers, &c. The Elastowear Manufacturing Company. No. 130,710; May 4; v. 274; p. 184.
Glass-cutters. J. E. Miller. No. 130,833; May 4; v. 274; p. 188.
Glass vial, Perfume. A. Vericel. No. 130,965; May 4; v. 274; p. 192.
Glass, Window and picture. American Window Glass Company. No. 131,893; May 25; v. 274; p. 835.
Glassware. Tiffany Furnaces. No. 131,757; May 25; v. 274; p. 831.
Gloves, Leather. Heller Leather Co. No. 130,750; May 4; v. 274; p. 185.
Glue. Simmons Hardware Company. No. 131,838; May 25; v. 274; p. 834.
Gold, metal, and composition leaf. Philip A. Hunt Company. No. 131,495; May 18; v. 274; p. 604.
Golf-clubs. The Crawford McGregor and Canby Company. No. 130,689; May 4; v. 274; p. 184.
Grape-juice. California Wine Association. No. 131,422; May 18; v. 274; p. 602.
Grape-juice. Hammondsport Products Co. No. 131,481; May 18; v. 274; p. 603.
Grape-juice and ginger-ale. Walker-Matteson Company. No. 131,876; May 25; v. 274; p. 835.
Grapes, Fresh. L. Rusconi. No. 130,899; May 4; v. 274; p. 190.
Graphite, Flake. International Carbon Products Company. No. 130,764; May 4; v. 274; p. 186.
Guano. American Agricultural Chemical Co. No. 131,692; May 25; v. 274; p. 829.
Gum, Chewing-. The Bee Bee Confection Company. No. 131,410; May 18; v. 274; p. 601.
Gum, Chewing-. L. P. Larson Jr. Company. No. 131,337; May 11; v. 274; p. 401.
Gum, Chewing-. Wm. Wrigley Jr. Company. No. 131,004; May 4; v. 274; p. 193.
Hair-curler. L. E. Marx. No. 131,185; May 4; v. 274; p. 198.
Hair-extractor, Mechanical. L. M. Durfee. No. 130,705; May 4; v. 274; p. 184.
Hair-grower, pressing and temple oil, and hair-dye. G. R. Hawkins. No. 131,486; May 18; v. 274; p. 604.
Hair-nets. Samuel Boncet & Bro. No. 131,415; May 18; v. 274; p. 601.
Hair-nets. Paristyle Novelty Co. No. 131,570; May 18; v. 274; p. 606.
Hair preparation. S. Helm. No. 131,774; May 25; v. 274; p. 832.
Hair-salve. Viduseck, A. No. 131,661; May 18; v. 274; p. 609.
Hair-tonic. P. Daski. No. 131,440; May 18; v. 274; p. 602.
Hair-tonic. J. B. Nayberger. No. 131,563; May 18; v. 274; p. 606.
Hair tonics and straighteners. E. Adams. No. 131,277; May 11; v. 274; p. 399.
Hair-wavers. Parisian Mfg. Company. No. 131,206; May 4; v. 274; p. 199.
Hammers, knives, shingling-hatchets. Hibbard, Spencer, Bartlett & Co. No. 131,322; May 11; v. 274; p. 400.
Hams, bacon, shoulders. Swift & Company. No. 130,940. May 4; v. 274; p. 191.
Handkerchiefs. Hyman Bauman & Co. No. 131,408; May 18; v. 274; p. 601.
Hardware, plumbing, and steam-fitting supplies. R. J. Donovan Co. of New York. No. 131,737; May 25; v. 274; p. 830.
Harmonicas. J. K. Johnson. No. 131,787; May 25; v. 274; p. 832.
Hats and caps. M. Feldstein. No. 131,751; May 25; v. 274; p. 831.
Hats. S. Schiller. No. 130,907; May 4; v. 274; p. 190.
Hats, shoes, overcoats, dresses, &c. A. M. Malouf. No. 130,811; May 4; v. 274; p. 187.
Heaters, Electric air, water, and immersion. Majestic Electric Development Co. No. 130,809; May 4; v. 274; p. 187.
Herb combination for use in the treatment of certain named diseases. E. Beall. No. 131,281; May 11; v. 274; p. 399.
Hides and leather. Kullman, Salz & Co. No. 131,162; May 4; v. 274; p. 198.
Hog-waterers. The Hartman Company. No. 130,745; May 4; v. 274; p. 185.
Hoisting-towers, Construction. J. J. Wuellner & Son. No. 131,005; May 4; v. 274; p. 193.
Hollow ware, Sterling silver. Weber, Wagner & Benson. No. 131,878; May 25; v. 274; p. 835.
Honey, peanut-butter, and ice-cream cones. Standard Products Supply Co. No. 131,628; May 18; v. 274; p. 608.
Honor-rolls, bas-reliefs, and memorial tablets. Dymalkon Metals Corporation. No. 130,707; May 4; v. 274; p. 184.
Hooks and eyes. The De Long Hook and Eye Company. No. 131,076; May 4; v. 274; p. 195.
Hooks and eyes. The De Long Hook and Eye Company. No. 131,898; May 25; v. 274; p. 835.
Hops, California. A/D Det Almindelige Handelskompagni, No. 131,077; May 4; v. 274; p. 195.
Hose. L. B. Alling. No. 130,601; May 4; v. 274; p. 181.
Hose. L. B. Alling. No. 131,013; May 4; v. 274; p. 193.
Hose. Slatedale Knitting Mills. No. 130,922; May 4; v. 274; p. 191.
Hosiery. Campe Corporation. No. 131,718; May 25; v. 274; p. 830.
Hosiery. Chipman Knitting Mills. No. 130,673; May 4; v. 274; p. 183.
Hosiery. Chipman Knitting Mills. No. 131,066; May 4; v. 274; p. 195.
Hosiery. Daum Rogers Spritzer Co. No. 130, 694; May 4; v. 274; p. 184.
Hosiery. Encore Hosiery Co. No. 131,748; May 25; v. 274; p. 831.
Hosiery. John M. Given, Inc. No. 130,733; May 4; v. 274; p. 185.
Hosiery. National Mills. No. 131,198; May 4; v. 274; p. 199.
Hosiery. Ritter Hosiery Company. No. 130,886; May 4; v. 274; p. 189.
Hosiery. S. A. Singer. No. 130,921; May 4; v. 274; p. 191.
Hosiery. Strutwear Knitting Company. No. 131,848; May 25; v. 274; p. 834.

Hosiery. E. M. Townsend & Co. No. 130,947; May 4; v. 274; p. 191.
Hosiery. Universal Merchandise Co. No. 130,962; May 4; v. 274; p. 192.
Hosiery, Children's. John M. Given, Inc. No. 131,122; May 4; v. 274; p. 197.
Hosiery for women. J. F. Byrne. Nos. 131,058–9; May 4; v. 274; p. 195.
Hosiery, men's collars, dress-shirts, &c. Johnston Dry Goods Co. No. 130,768; May 4; v. 274; p. 186.
Hosiery, underwear, and sweaters, and work-shirts for men and boys, Knitted. O. L. Stanard Dry Goods Company. No. 131,241; May 4; v. 274; p. 200.
Hydraulic machinery and equipment. Metalwood Manufacturing Co. No. 130,831; May 4; v. 274; p. 188.
Hydrosulfite, Anhydrous sodium. Rohn & Haas Company. No. 131,598; May 18; v. 274; p. 607.
Ice-cream. Tampa Dairy Co. No. 130,941; May 4; v. 274; p. 191.
Ice-cream and ices. Arctic Ice & Coal Co. No. 131,024; May 4; v. 274; p. 194.
Ice-cream and ices. Fresno Brewing Co. No. 130,724; May 4; v. 274; p. 185.
Ice-cream, &c., Powder for. W. B. Wood Mfg. Co. No. 131,001; May 4; v. 274; p. 193.
Ice-cream cones. S. G. Hagopian. No. 130,742; May 4; v. 274; p. 185.
Icings and toppings for foods. White Stokes Co. No. 130,992; May 4; v. 269; p. 193.
Ignition-magnetos. Webster Electric Company. No. 131,265; May 4; v. 274; p. 201.
Inhalers. W. H. Schaefer. No. 130,906; May 4; v. 274; p. 190.
Ink for making writing fluid, Condensed. Jasmine Ink Corporation. No. 131,506; May 18; v. 274; p. 604.
Ink in tablet form. Gosselin Trading Corporation. No. 131,762; May 25; v. 274; p. 831.
Inks. R. T. Furman. No. 131,756; May 25; v. 274; p. 831.
Insect-powder. H. Kaye. No. 131,511; May 18; v. 274; p. 605.
Insects, Machines for injecting fluid into the ground for exterminating. J. Conceição. No. 130,681; May 4; v. 274; p. 183.
Insecticide. R. E. Buchtel. No. 131,715; May 25; v. 274; p. 830.
Insecticide and fungicide. Standard Chemical Works. Nos. 131,626–7; May 18; v. 274; p. 608.
Insecticide and germicide. Dunuis Chemical Co. No. 131,303; May 11; v. 274; p. 399.
Insecticides. Henry Heil Chemical Company. No. 131,320; May 11; v. 274; p. 400.
Insecticides. McDougall Brothers. No. 131,543; May 18; v. 274; p. 606.
Insecticides. J. G. Grossenbacher. No. 131,473; May 18; v. 274; p. 603.
Insecticides. Nitrate Agencies Company. No. 131,565; May 18; v. 274; p. 606.
Insulating materials for electrical purposes. J. E. Dockendorff & Co. No. 131,736; May 25; v. 274; p. 830.
Iron and steel. Federal Tool & Alloy Steel Corporation. No. 131,307; May 11; v. 274; p. 400.
Iron and steels. John Kenyon & Co. (Sheffield). Nos. 131,516–18; May 18; v. 274; p. 605.
Irons, Electric flat-. Chicago Flexible Shaft Company. No. 130,671. May 4; v. 274; p. 183.
Jams, Fruit. Gibbs Preserving Co. No. 130,732; May 4; v. 274; p. 185.
Jams, Fruit. Kelley-Clarke Co. No. 131,333; May 11; v. 274; p. 400.
Jar-capping machines. The American Pure Food Process Co. No. 131,400; May 18; v. 274; p. 601.
Kerosene and candles. Atlanta Refining Company. No. 131,704; May 25; v. 274; p. 829.
Kerosene, gasolene, naphtha, &c. Standard Oil Company of New York. No. 131,844; May 25; v. 274; p. 834.
Knitted undershirts and union-suits for women. Phillips-Descher Corporation. No. 131,211; May 4; v. 274; p. 199.
Knives. Dwight Divine & Sons. No. 131,448; May 18; v. 274; p. 602.
Knives, Steel. Lamson and Goodnow Manufacturing Company. No. 131,528; May 18; v. 274; p. 605.
Lacing-hooks for use on shoes. Edwin B. Stimpson Company. No. 131,927; May 25; v. 274; p. 836.
Lamp products, Electric-. Electric Lamp & Products Co. No. 131,451; May 18; v. 274; p. 603.
Lamps, Incandescent electric. Nitrogen Electric Company. No. 131,808; May 25; v. 274; p. 833.
Lanterns. J. N. Klema. No. 131,155; May 4; v. 274; p. 198.
Lathes and screw-machines, Turret-. Wood Turret Machine Co. No. 131,391; May 11; v. 274; p. 402.
Laundry-tablets. G. M. David. No. 131,074; May 4; v. 274; p. 195.
Laxative, Liquid vegetable. P. B. Zevely. No. 131,684; May 18; v. 274; p. 610.
Laxative preparation. Sentanel Remedies Company. No. 131,610; May 18; v. 274; p. 608.
Leather. John R. Evans & Company. No. 131,107; May 4; v. 274; p. 196.
Leather-board, Manufactured. Herkimer Fibre Company. No. 130,749; May 4; v. 274; p. 185.
Leather-dressing. Whittemore Brothers' Corporation. Nos. 131,669–71; May 18; v. 274; p. 610.
Leather, Horse-. Chicago Tanning Co. No. 130,672; May 4; v. 274; p. 183.
Leather, Imitation. Marathon Tire and Rubber Co. No. 131,182; May 4; v. 274; p. 198.
Leather in the piece, Finished. The Toomay Company. No. 130,946; May 4; v. 274; p. 191.
Leather, Sole-. Janney & Burroughs. No. 130,767; May 4; v. 274; p. 186.
Lemon-squash and lime-juice. London 'O-T' Limited. No. 131,536; May 18; v. 274; p. 605.
Lenses, Automobile-. E. R. Brackett. No. 131,044; May 4; v. 274; p. 194.
Lenses, Condensing-. Corning Glass Works. No. 131,436; May 18; v. 274; p. 602.
Lenses, eyeglasses, and frames, Ophthalmic. United Eye Glass Shops Corporation. No. 131,650; May 18; v. 274; p. 609.
Lenses, eyeglasses, &c., Ophthalmic. United Eye Glass Shops Corporation. Nos. 131,374–9; May 11; v. 274; p. 402.
Lenses, Ophthalmic. American Optical Company. No. 130,610; May 4; v. 274; p. 181.
Lenses, Photographic. Wollensak Optical Co. No. 131,389; May 11; v. 274; p. 402.
Lights or searchlights, Electric spot-. Hardware Manufacturing Co. No. 131,769; May 25; v. 274; p. 831.
Lime-juice and grape-juice. S. S. Pierce Co. No. 131,820; May 25; v. 274; p. 833.
Liniment. F. Ad. Richter & Co. of New York. Nos. 131,593–4; May 18; v. 274; p. 607.
Liniment. L. W. Umbaugh. No. 131,373; May 11; v. 274; p. 402.
Liniment for the treatment of certain named affections. Leroy Jones. No. 131,331; May 11; v. 274; p. 400.
Liniments. A. W. Fingl. No. 131,461; May 18; v. 274; p. 603.
Liniments used in the treatment of muscular pains, &c. Polonia Drug Company. No. 131,823; May 25; v. 274; p. 833.
Linings, Cotton. J. W. Goddard & Sons. No. 131,760; May 25; v. 274; p. 831.
Linoleum, Imitation. Salem Manufacturing Co. No. 131,828; May 25; v. 274; p. 833.
Lithopone. Collinsville Zinc Corporation. No. 131,726; May 25; v. 274; p. 830.
Locks, Nut-. Palmut Corporation. No. 130,860; May 4; v. 274; p. 189.
Locks, Nut-. United Nut Lock Company. No. 131,381; May 11; v. 274; p. 402.
Lotion, Face-. L. F. Fow. No. 131,753; May 25; v. 274; p. 831.
Lotion, Toilet. The Lorenz Company. No. 131,539; May 18; v. 274; p. 606.
Lotions, Skin-. C. H. Bong. No. 131,416; May 18; v. 274; p. 601.
Lotions to be rubbed into the skin to relieve pain. Lumoff and Evanove. No. 131,797; May 25; v. 274; p. 832.
Lubricating and grease guns. Boston Auto Gage Company. No. 130,648; May 4; v. 274; p. 182.
Lubricators and oiling devices, Mechanical. Richardson-Phenix Co. No. 131,589; May 18; v. 274; p. 607.
Lumber. Walnut Export Sales Co. No. 131,928; May 25; v. 274; p. 836.
Lumber, Finished and unfinished. Long-Bell Lumber Company. No. 131,913; May 25; v. 274; p. 836.
Luminous material. Radium Luminous Material Corporation. No. 131,585; May 18; v. 274; p. 607.
Macaroni. Prince Macaroni Mfg. Co. No. 130,871; May 4; v. 274; p. 189.
Macaroni, vermicelli, and noodles. Skinner Mfg. Co. No. 131,370; May 11; v. 274; p. 402.
Machinery. J. I. Case Threshing Machine Company. No. 131,289; May 11; v. 274; p. 399.
Machinery. Lummus Cotton Gin Company. No. 131,178; May 4; v. 274; p. 198.
Machinery and parts thereof. Massey-Harris Harvester Co. No. 130,820; May 4; v. 274; p. 187.
Machinery and tools. American Tool & Machine Co. No. 131,402; May 18; v. 274; p. 601.
Machinery for certain named purposes. S. Howes Co. No. 130,758; May 4; v. 274; p. 186.
Machinery for sugar and other mills and parts thereof. Farrel Foundry & Machine Company. No. 131,749; May 25; v. 274; p. 831.
Machines, and parts thereof, Sewing-. L. Buriasky. No. 131,288; May 11; v. 274; p. 399.
Machines, bucks, lathes, bars, &c. A. F. Way Company. No. 131,877; May 25; v. 274; p. 835.
Mackinaws, woolen shirts, storm-vests, trousers, and outer suits. Lawrence Webster Co. No. 131,879; May 25; v. 274; p. 835.
Magneto-files and tools for cleaning spark-plugs. Henry Disston & Sons. No. 131,298; May 11; v. 274; p. 399.
Mallow topping for ice-cream, desserts, &c. Fabian Hedges Inc. No. 131,135; May 4; v. 274; p. 197.
Manicuring implements. Columbia Manicure Mfg. Co No. 130,678; May 4; v. 274; p. 183.
Marcel and water waver. Samstag & Hilder Bros. No. 131,232; May 4; v. 274; p. 200.
Massaging machines, Electrical. Western Electric Company. No. 130,989; May 4; v. 274; p. 192.

Mayonnaise dressing, chilli-chow, and a marshmallow preparation. J. A. De Luca. No. 130,696; May 4; v. 274; p. 184.
Measuring and scientific appliances. Handley Page Limited. No. 131,814; May 25; v. 274; p. 833.
Measuring and scientific appliances. Reid Bros. No. 130,875; May 4; v. 274; p. 189.
Measuring and scientific appliances. Precision Instrument Company. No. 131,579; May 18; v. 274; p. 607.
Measuring and scientific appliances. Precision Instrument Company. No. 131,824; May 25; v. 274; p. 833.
Measuring appliances. Pneumercator Company. No. 131,822; May 25; v. 274; p. 833.
Medical compound for syphilis. W. L. Capell. No. 131,423; May 18; v. 274; p. 602.
Medical compound for typhoid fever, &c. E. J. Vernon. No. 131,660; May 18; v. 274; p. 609.
Medicinal preparation. The Drum Medicine Company. No. 130,702; May 4; v. 274; p. 184.
Medicinal preparation. A. M. Flood. No. 131,308; May 11; v. 274; p. 400.
Medicinal preparation for influenza. N. S. Sue. No. 131,631; May 18; v. 274; p. 609.
Medicinal preparation for rheumatism, &c. Kreo-Rub Chemical Co. No. 131,334; May 11; v. 274; p. 400.
Medicinal preparations. F. Ad. Richter & Co. No. 131,595; May 18; v. 274; p. 607.
Medicinal preparations. J. Robert. No. 131,596; May 18; v. 274; p. 607.
Medicinal tablets for laxative, liver-regulator, &c. M. A. Winter Company. No. 131,886; May 25; v. 274; p. 835.
Medicine for certain named diseases. Leo M. Wolf. No. 131,677; May 18; v. 274; p. 610.
Medicine for indigestion, nervous affections, &c. M. Szczepkowski. No. 131,849; May 25; v. 274; p. 834.
Medicine for the diseased mucous membrane of the nose, throat, mouth, and ear. Otorino Manufacturing Company. No. 131,358; May 11; v. 274; p. 401.
Medicine for the treatment of sores, cuts, and wounds. Fondaol Laborntories Co. No. 131,752; May 25; v. 274; p. 831.
Medicine, Lung. F. E. Hunter. No. 131,496; May 18; v. 274; p. 604.
Medicine used in the treatment of certain named diseases. Wa-Ba-Va-Nos-Ta Medicine & Drug Co. No. 131,664; May 18; v. 274; p. 610.
Metal wear. The New England Enameling Company. No. 131,564; May 18; v. 274; p. 606.
Middy-blouses and dresses. Enterprise Manufacturing Company. No. 131,102; May 4; v. 274; p. 196.
Milk and cream testers, Electric. Imperial Electrical Co. No. 131,498; May 18; v. 274; p. 604.
Milk, Condensed. J. B. Gross Corporation. No. 130,741; May 4; v. 274; p. 879.
Milk, Condensed. Noble Dairy Farms. No. 131,202; May 4; v. 274; p. 199.
Milk, Evaporated. Kinney Bros. No. 131,154; May 4; v. 274; p. 198.
Milk, Evaporated. The Van Camp Packing Company. No. 130,964; May 4; v. 274; p. 192.
Milk, Sweetened condensed and unsweetened evaporated. R. G. Morey. No. 131,555; May 18; v. 274; p. 606.
Milking-machines. Beaver Machine & Tool Co. No. 131,282; May 11; v. 274; p. 399.
Millinery. C. A. Browning Co. No. 130,655; May 4; v. 274; p. 183.
Mirrors for vehicles, Rear-sight. Elbe Motor Co. No. 131,097; May 4; v. 274; p. 196.
Mixing, kneading, and masticating machines. East Iron & Machine Co. No. 131,450; May 18; v. 274; p. 602.
Mixture which comprises chilli peppers, comino, &c. L. G. Page. No. 130,858; May 4; v. 274; p. 189.
Mowers, Lawn-. John Braun & Sons. Nos. 131,046–52; May 4; v. 274; p. 194.
Music-roll ends. G. J. Crosman. No. 131,730; May 25; v. 274; p. 830.
Nail-polish, brilliantine, and cuticle-cream. H. J. Bosch. No. 131,418; May 18; v. 274; p. 601.
Nainsooks, muslins, long-cloth, cambrics. Carson, Pirie, Scott & Co. No. 130,666; May 4; v. 274; p. 183.
Neckties, cravats, and scarfs. Franc, Strohmenger & Cowan. No. 131,754; May 25; v. 274; p. 834.
Negligées. G. G. Thompson. No. 130,944; May 4; v. 274; p. 191.
Nightgowns, petticoats, drawers, &c., Ladies'. Wolf Company. No. 131,000; May 4; v. 274; p. 193.
Noodles, Home-made Noodle Co. No. 131,324; May 11; v. 274; p. 400.
Notions. Waldes & Co. Nos. 130,975–6; May 4; v. 274; p. 192.
Notions. Waldes & Co. No. 130,978; May 4; v. 274; p. 192.
Notions. Waldes & Co. No. 130,980; May 4; v. 274; p. 192.
Notions. Waldes & Co. Nos. 131,262–3; May 4; v. 274; p. 201.
Nuts. M. O. Dantzler. No. 131,073; May 4; v. 274; p. 195.
Nuts, Pecan-. National Pecan Growers Exchange. No. 131,357; May 11; v. 274; p. 401.
Nuts, Pecan-. National Pecan Growers Exchange. No. 131,807; May 25; v. 274; p. 833.
Nuts, Shelled and unshelled. Habicht and Company. No. 131,478; May 18; v. 274; p. 603.
Oars and paddles. Shea Oar Company. No. 131,924; May 25; v. 274; p. 836.
Oats, Rolled. The Corno Mills Company. No. 130,687; May 4; v. 274; p. 183.
Oil and tomato paste, Olive-. A. & C. Buscaglia Co. No. 130,662; May 4; v. 274; p. 183.
Oil-cloths and enameled cloth, Table and shelf. Levy & Fish. No. 131,168; May 4; v. 274; p. 198.
Oil compound for use in cutting metals, &c. E. F. Houghton & Co. No. 131,777; May 25; v. 274; p. 832.
Oil-cups. Bloom Flusher Co. No. 130,644; May 4; v. 274; p. 182.
Oil-cups. Lunkenheimer Company. No. 131,340; May 11; v. 274; p. 401.
Oil-cups. Lunkenheimer Company. No. 131,342; May 11; v. 274; p. 401.
Oil, Edible vegetable. The American Cotton Oil Company. No. 131,396; May 18; v. 274; p. 601.
Oil, Epsom salts and sulfur, Castor-. Malone & Hyde. No. 131,545; May 18; v. 274; p. 606.
Oil for leather, Emulsifying. Vacuum Oil Company. No. 131,252; May 4; v. 274; p. 201.
Oil, Haarlem. H. R. Lathrop & Co. No. 131,527; May 18; v. 274; p. 605.
Oil, Medicated. Popsotone Company. No. 131,575; May 18; v. 274; p. 607.
Oil, Olive-. N. P. Economou. No. 131,096; May 4; v. 274; p. 196.
Oil, Olive-. F. N. Glavi. No. 130,731; May 4; v. 274; p. 185.
Oil or amyl alcohol, &c., Fusel-. U. S. Industrial Alcohol Co. No. 131,652; May 18; v. 274; p. 609.
Oil, preserved vegetables and fish, cheese, tea, pickles, candy, &c., Olive-. Strohmeyer & Arpe Company. No. 130,936; May 4; v. 274; p. 191.
Oil, Refined. Standard Oil Company of New York. No. 131,843; May 25; v. 274; p. 834.
Oils and fats, Vegetable and animal. Fats and Oils Service Company. No. 131,459; May 18; v. 274; p. 603.
Oils and greases. Atlanta Refining Company. No. 131,703; May 25; v. 274; p. 829.
Oils and greases, Lubricating. Fred G. Clark Co. No. 131,723; May 25; v. 274; p. 830.
Oils and greases, Lubricating. Motorlife Oil Company. No. 131,916; May 25; v. 274; p. 836.
Oils and greases, Lubricating. Societe des Moteurs Gnome et Rhone. No. 131,840; May 25; v. 274; p. 834.
Oils and greases, Lubricating. Star Oil Company. No. 131,630; May 18; v. 274; p. 608.
Oils, Edible. Aspegren & Co. No. 130,627; May 4; v. 274; p. 182.
Oils, greases, and waxes, &c. Vacuum Oil Company. No. 131,862; May 25; v. 274; p. 834.
Oils, greases, and waxes, &c. Vacuum Oil Company. Nos. 131,864–7; May 25; v. 274; p. 834.
Oils, greases, &c., Lubricating. Daljar Mfg. Co. No. 131,733; May 25; v. 274; p. 830.
Oils, greases, waxes, gasolene, &c. Vacuum Oil Company. No. 131,863; May 25; v. 274; p. 834.
Oils, Floor-. J. W. Bullen. No. 131,716; May 25; v. 274; p. 830.
Oils, Fuel-. Toledo Fuel Company. No. 131,855; May 25; v. 274; p. 834.
Oils, Lubricating-. Hearn Oil Company. No. 131,773; May 25; v. 274; p. 831.
Oils, Lubricating-. Lamborn & Co. No. 131,795; May 25; v. 274; p. 832.
Oilers, Force-feed. H. D. Lafferty. No. 131,523; May 18; v. 274; p. 605.
Ointment. C. J. Durling. No. 131,447; May 18; v. 274; p. 602.
Ointment, Alternative antiseptic. Sharp & Dohme. No. 131,833; May 25; v. 274; p. 833.
Ointment, Antiseptic antipruritic. Sharp & Dohme. No. 131,834; May 25; v. 274; p. 833.
Ointment for piles, burns, &c. W. C. Lynch. No. 131,343; May 11; v. 274; p. 401.
Ointment for treatment of piles and similar complaints. A. Theodoropoulos. No. 131,635; May 18; v. 274; p. 609.
Ointment, Rubefacient. Sharp & Dohme. No. 131,831; May 25; v. 274; p. 833.
Oleomargarin. Kokomar Company. No. 130,781; May 4; v. 274; p. 186.
Olives, Pickled. Mt. Ida Packing Company. No. 131,192; May 4; v. 274; p. 199.
Onions, Fresh. Walla Walla Gardener's Association. No 130,981; May 4; v. 274; p. 192.
Optical goods and parts thereof, and measuring appliances. American Optical Company. No. 131,693; May 25; v. 274; p. 829.
Oranges, Fresh. Buckeye Nurseries. No. 130,853; May 4; v. 274; p. 188.
Ovens for baking bread, pastry, &c., Electric. Keeps-Fresh Electric Bakeries. No. 131,515; May 18; v. 274; p. 605.
Overalls. Brownstein-Louis Company. No. 130,658; May 4; v. 274; p. 183.
Overalls. The Crown Overall Manufacturing Company. No. 130,690; May 4; v. 274; p. 184.
Overalls. Cowden Manufacturing Co. No. 130,688; May 4; v. 274; p. 184.

Overalls and jackets. Happ Brothers Co. No. 130,744; May 4; v. 274; p. 185.
Overalls and shop-coats. L. Kohn. No. 131,160; May 4; v. 274; p. 198.
Overalls, jumpers and work-shirts. Textile Products Manufacturing Company. No. 130,943; May 4; v. 274; p. 191.
Overalls, work coats, shirts, and trousers. Hirsch-Mirviss Mfg. Co. No. 130,751; May 4; v. 274; p. 185.
Overgaiters. American Overgaiter Co. No. 130,611; May 4; v. 274; p. 181.
Paint and rough-surface coating, Ready-mixed. K. Kolvisto. No. 131,790; May 25; v. 274; p. 832.
Paint, Liquid. Wadsworth, Howland & Co. No. 131,874; May 25; v. 274; p. 835.
Paint, oil and acid stains, coaters, &c., Enamel. Federal Varnish Co. No. 131,750; May 25; v. 274; p. 831.
Paints and painters' materials. Egan, Ronan, Hausman Company, Incorporated. No. 131,742; May 25; v. 274; p. 830.
Paints and painters' materials. W. I. Peirce. No. 131,918; May 25; v. 274; p. 836.
Paints, Anticorrosive, antifouling, and mixed. Amalgamated Paint Co. No. 131,691; May 25; v. 274; p. 829.
Paints, House and roofing. George W. Reinhardt Co. No. 131,826; May 25; v. 274; p. 833.
Paints, Mixed. Harland & Little. No. 131,770; May 25; v. 274; p. 831.
Paints, Ready-mixed and enamel. H. B. Blessing. No. 131,894; May 25; v. 274; p. 835.
Paints, varnishes, &c. Koppers Company. No. 131,791; May 25; v. 274; p. 832.
Paints, varnishes, &c. G. J. Liebich Co. No. 131,533; May 18; v. 274; p. 605.
Paints, varnishes, and paint compounds, Liquid. Paraffine Companies. No. 131,815; May 25; v. 274; p. 833.
Paints, varnishes, &c., for ships' bottoms. Graphite Products Limited. No. 131,763; May 25; v. 274; p. 831.
Pants, Infants'. Samstag & Hilder Bros. No. 130,903; May 4; v. 274; p. 190.
Paper. American Writing Paper Company. No. 131,697; May 25; v. 274; p. 829.
Paper, Bond-. Gilbert Paper Company. No. 131,758; May 25; v. 274; p. 831.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 131,269; May 4; v. 274; p. 201.
Paper bags. Wortendyke Manufacturing Company. No. 131,003; May 4; v. 274; p. 193.
Paper, Bond-. Gilbert Paper Company. No. 131,120; May 4; v. 274; p. 196.
Paper, envelops, tablets, blank books. J. C. Blair Company. No. 131,041; May 4; v. 274; p. 194.
Paper, Filter-. W. & R. Balston. No. 131,707; May 25; v. 274; p. 829.
Paper, Machine-bookkeeping. Byron Weston Co. No. 130,990; May 4; v. 274; p. 192.
Paper, Safety-. G. La Monte & Son. No. 131,010; May 4; v. 274; p. 193.
Paper, Toilet-. Imperial Merchandise Company. Nos. 131,781–2; May 25; v. 274; p. 832.
Paper, Window-display. Lester P. Winchenbaugh Co. No. 131,271; May 4; v. 274; p. 201.
Paper, Wrapping-. The Alling and Cory Co. No. 131,014; May 4; v. 274; p. 193.
Paper, Wrapping-. York Haven Paper Company. No. 131,080; May 18; v. 274; p. 610.
Paper, Writing-. Gilbert Paper Company. No. 131,119; May 4; v. 274; p. 196.
Paper, Writing-. Gilbert Paper Company. No. 131,121; May 4; v. 274; p. 197.
Paper, Writing-. Western Bottle Mfg. Co. No. 130,988; May 4; v. 274; p. 192.
Paper, Writing-. Whiting Paper Company. No. 130, 994; May 4; v. 274; p. 193.
Papers and mailing envelops, Writing, &c., American Paper Exports. No. 131,398; May 18; v. 274; p. 601.
Papers and tablets. Osborn Paper Company. Nos. 131,810–11; May 25; v. 274; p. 833.
Papers, Ledger, writing, &c. L. L. Brown Paper Company. No. 130,654; May 4; v. 274; p. 182.
Papers, Papeterie-. American Writing Paper Company. Nos. 131,694–6; May 25; v. 274; p. 829.
Papers, Papeterie-. American Writing Paper Company. Nos. 131,698–9; May 25; v. 274; p. 829.
Papers, Wrapping-. Union Bag & Paper Corporation. No. 131,647; May 18; v. 274; p. 609.
Parchmentized fiber, sheets, rods, tubes, and disks. Diamond State Fibre Company. No. 130,700; May 4; v. 274; p. 184.
Paste, Adhesive. Ideal Paste & Chemical Works. Nos. 131,779–80; May 25; v. 274; p. 832.
Pastes, Backing-. Hazen-Brown Company. No. 131,772; May 25; v. 274; p. 831.
Peanut-butter, vinegar, rice, &c. The Russell Jobbers' Mills. No. 131,230; May 4; v. 274; p. 200.
Peanuts and topping for sundaes, &c., Salted. P. F. Beich Company. No. 131,283; May 11; v. 274; p. 399.
Pearls and imitation pearls. M. Wormser. No. 131,888; May 25; v. 274; p. 835.
Pearls and pearl necklaces, Imitation. Hayden W. Wheeler & Co. No. 131,882; May 25; v. 274; p. 835.
Pearls, collars of pearls, and jewelry adorned with pearls. Société La Perle Saskia. No. 131,841; May 25; v. 274; p. 834.
Pencils. Joseph Dixon Crucible Company. Nos. 131,079–87; May 4; v. 274; p. 195.
Perfume, toilet water, &c. Lundborg Company. No. 131,541; May 18; v. 274; p. 606.
Perfumes, toilet waters, powders, &c. Denney & Denney. No. 131,297; May 11; v. 274; p. 399.
Perfumes, tooth and toilet powders, &c. The Lorenz Company. No. 131,538; May 18; v. 274; p. 605.
Perfumery, toilet water, &c. Jennings Manufacturing Company. No. 131,507; May 18; v. 274; p. 604.
Periodical publication, Monthly. Italian Discount and Trust Company. No. 131,784; May 25; v. 274; p. 832.
Petroleum products. Carson Petroleum Company. No. 131,719; May 25; v. 274; p. 830.
Petticoats and bloomers. M. A. Karalan. No. 130,770; May 4; v. 274; p. 186.
Pharmaceutical preparations. W. R. Fessler. No. 131,460; May 18; v. 274; p. 603.
Pharmaceutical preparations. A. H. Rudd. No. 131,601; May 18; v. 274; p. 608.
Phonograph-records. Emerson Phonograph Company. No. 131,902; May 25; v. 274; p. 836.
Phonographs. Huss Bros. Phonograph & Piano Co. No. 131,778; May 25; v. 274; p. 832.
Phonographs. Music Table Company. No. 130,837; May 4; v. 274; p. 188.
Phonographs. Volce Talking Machine Co. No. 131,871; May 25; v. 274; p. 835.
Phonographs and sound-boxes and tone-arms for same. Oro-Tone Co. No. 131,568; May 18; v. 274; p. 606.
Phonographs, record-needles, &c. Polonia Phonograph Co. No. 130,868; May 4; v. 274; p. 189.
Phonographs, talking-machines, pianos. J. D. Kilgore. No. 131,786; May 25; v. 274; p. 832.
Photographic and developing papers. Haloid Company. No. 131,480; May 18; v. 274; p. 603.
Pianos. American Piano Company. No. 131,399; May 18; v. 274; p. 601.
Picture films, Motion-. Community Motion Picture Bureau. No. 131,434; May 18; v. 274; p. 602.
Picture films, Moving-. Hallmark Pictures Corporation. No. 131,317; May 11; v. 274; p. 400.
Picture films, Moving-. G. J. Marlleet. No. 130,826; May 4; v. 274; p. 188.
Picture films, Moving-. Screencraft pictures. No. 130,910; May 4; v. 274; p. 190.
Picture films, Moving-. Vitagraph Company of America. No. 131,383; May 11; v. 274; p. 402.
Picture-producing apparatus, Motion-. Bell & Howell Co. No. 130,637; May 4; v. 274; p. 182.
Piece goods. Haas Brothers Fabrics' Corporation. Nos. 131,129–30; May 4; v. 274; p. 197.
Pillow-cases. Naumkeag Steam Cotton Co. No. 131,199; May 4; v. 274; p. 199.
Pipe-couplings, &c., Metal. National Tube Company. No. 131,562; May 18; v. 274; p. 606.
Pipe-covers. The Waterbury Jewel Company. No. 130,987; May 4; v. 274; p. 192.
Pipe joints or couplings. Standard Union Company. No. 131,629; May 18; v. 274; p. 608.
Pipe, railway-spikes, &c., Welded and riveted. Koppel Industrial Car & Equipment Company. No. 130,782; May 4; v. 274; p. 186.
Pipes, Pitch-. National Musical String Company. No. 131,806; May 25; v. 274; p. 833.
Pipes, Tobacco-. Societe Anonym La Bruyere. No. 130,925; May 4; v. 274; p. 191.
Placket and snap fasteners, glove-buttons, clasps. Waldes & Co. Nos. 130,971–4; May 4; v. 274; p. 192.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 131,261; May 4; v. 274; p. 20.
Planchette-boards. Unique Novelty Co. No. 130,955; May 4; v. 274; p. 191.
Planes, Carpenters'. Stanley Rule & Level Company. No. 131,371; May 11; v. 274; p. 402.
Platinum, Alloyed. E. R. Nebeling No. 130,844; May 4; v. 274; p. 188.
Plows and parts thereof. Lynchburg Foundry Company. 130,802; May 4; v. 274; p. 187.
Polishes for automobiles, &c. C. B. Whitney. No. 131,883; May 25; v. 274; p. 835.
Popcorn confections. American Pop Corn Works. No. 131,020; May 4; v. 274; p. 193.
Porcelain-enamel-coated metal sheets, plates, and angle-pieces. Minnesota Stove Co. No 131,191; May 4; v. 274; p. 199.
Potatoes, Fresh. L. W. Smith. No. 130,924; May 4; v. 274; p. 191.
Potatoes, Raw. C. S. Timmons. No. 130,945; May 4; v. 274; p. 191.
Poultry and setting-eggs, Live. J. W. Zimmerer. No. 131,276; May 4; v. 274; p. 201.
Powder-blowers. The De Vilbiss Manufacturing Company. No. 130,699; May 4; v. 274; p. 184.
Powder, Cake face-. F. N. Lewis. No. 131,532; May 18; v. 274; p. 605.
Powder, rouge, depilatories, nail-polish, &c. L. R. Long. No. 131,339; May 11; v. 274; p. 401.
Powder, rouge, perfume, &c., Talcum. Goodrich Drug Company. No. 131,761; May 25; v. 274; p. 831.
Powder, Talcum. Grand Union Tea Co. No. 131,313; May 11; v. 274; p. 400.
Powder to be used in making a face-cream. F. A. Gray. No. 131,471; May 18; v. 274; p. 603.

Powder, Toilet. George Borgfeldt & Co. No. 131,711; May 25; v. 274; p. 829.
Powder, Tooth-. A. B. Peters. No. 131,575; May 18; v. 274; p. 607.
Powders, decolorizer, &c., Stripping and bleaching. L. S. Beller. No. 131,708; May 25; v. 274; p. 829.
Powders, lip salve and rouge, &c., Face and talcum. Julius Schmid, Incorporated. No. 131,607; May 18; v. 274; p. 608.
Powders, Talcum, face, &c. The Agra Company. No. 131,685; May 25; v. 274; p. 829.
Powders, Tooth and foot. The Lorenz Company. No. 131,540; May 18; v. 274; p. 606.
Power-hoists. S. W. Prussian. No. 131,365; May 11; v. 274; p. 401.
Preparation for asthma, &c. J. M. Pierre. No. 131,362; May 11; v. 274; p. 401.
Preparation for cleaning and polishing metals and glass. Electro-Silicon Co. Nos. 131,100–101; May 4; v. 274; p. 196.
Preparation for cleansing and beautifying the skin. Holton & Adams. No. 131,492; May 18; v. 274; p. 604.
Preparation for coughs and colds. Piso Company. No. 131,363; May 11; v. 274; p. 401.
Preparation for destroying boll-weevils, &c. V. Thompson. No. 131,637; May 18; v. 274; p. 609.
Preparation for headaches and nervous diseases. Keasbey & Mattison Company. No. 131,512; May 18; v. 274; p. 605.
Preparation for killing bugs, worms, and vermin, Garden. Consolidated Sales Company. No. 134,435; May 18; v. 274; p. 602.
Preparation for relief of inflammation and pain by cutaneous absorption. Clayton Chemical Co. No. 131,431; May 18; v. 274; p. 602.
Preparation for rheumatism and cystitis. Keasbey & Mattison Company. No. 131,513; May 18; v. 274; p. 605.
Preparation for the relief of constipation and other intestinal disorders of women. Walter-William Therapeutic Laboratories. No. 131,673; May 18; v. 274; p. 610.
Preparation for skin diseases, Pharmaceutical. Sunbeam Chemical Company. No. 131,372; May 11; v. 274; p. 402.
Preparation for treating eyes. Usit Mfg. Co. of America. No. 131,654; May 18; v. 274; p. 609.
Preparation for treatment of dysmenorrhea, &c. Walter-William Therapeutic Laboratories. No. 131,674; May 18; v. 274; p. 610.
Preparation for treatment of mucous-membrane disorders and diseases. Kolyptol Chemical Company. No. 131,332; May 11; v. 274; p. 400.
Preparation for use in the treatment of piles. I. F. Rhodenbaugh. No. 131,590; May 18; v. 274; p. 607.
Preparation that destroys dandruff, &c. S. D. Kienaveas. No. 130,787; May 4; v. 274; p. 186.
Preparation used for intramuscular, intravenous, subcutaneous, or local administration. The Intravenous Products Company. No. 131,502; May 18; v. 274; p. 604.
Preparations, Cascara. Eli Lilly & Company. No. 131,745; May 25; v. 274; p. 831.
Preparations, Skin. Urego Chemical Laboratories. No. 131,653; May 18; v. 274; p. 609.
Preservative compound for preserving food. Deutsche Conservierungsgesellschaft mit beschrankter Haftung. No. 131,444; May 18; v. 274; p. 602.
Pretzels, cakes, crackers, biscuits. York Pretzel Bakery. No. 131,007; May 4; v. 274; p. 193.
Printing work, Printed forms for estimates of. H. M. Hastings. No. 130,747; May 4; v. 274; p. 185.
Pumps and pumping liquids. Michigan Machine Company. No. 131,347; May 11; v. 274; p. 401.
Pumps employing poisonous gases for killing gophers, &c. W. R. Woodruff. No. 131,678; May 18; v. 274; p. 610.
Pumps for all classes of industrial service, oil and gas engines, &c. National Transit Pump & Machine Company. No. 130,843; May 4; v. 274; p. 188.
Pumps, Oil-. Lunkenheimer Company, The. No. 131,341; May 11; v. 274; p. 401.
Puttees, Fabric. Eaton Rapids Woolen Mills. No. 131,740; May 25; v. 274; p. 830.
Puzzle. Droelle & Vital. No. 130,701; May 4; v. 274; p. 184.
Puzzles. G. T. Robinson. No. 130,893; May 4; v. 274; p. 190
Pyrometers, Protecting-tubes for. The Brown Instrument Company. No. 130,653; May 4; v. 274; p. 182.
Radiator-valves and check-valves. C. Feuser. No. 131,110; May 4; v. 274; p. 196.
Railway appliances and parts thereof. Koppel Industrial Car & Equipment Company. No. 130,783; May 4; v. 274; p. 186.
Raincoats. Edward Ripley & Son. No. 130,884; May 4; v. 274; p. 189.
Razor-stroppers, Mechanical. Société Industrielle des Specialties Techniques S. A. No. 131,624; May 18; v. 274; p. 608.
Razor-strops. F. J. Wittl. No. 130,999; May 4; v. 274; p. 193.
Remedies for acid condition of the stomach. M. F. Pratt. No. 131,578; May 18; v. 274; p. 607.
Remedies for headache, insomnia, &c. United Laboratories. No. 131,380; May 11; v. 274; p. 402.
Remedy, Blood. C. A. Harris. No. 131,484; May 18; v. 274; p. 604.
Remedy, Eye. Wheeler Optical Company. No. 131,388; May 11; v. 274; p. 402.
Remedy for chills, fevers, colds, &c. L. Duffy. No. 131,446; May 18; v. 274; p. 602.
Remedy for colds and malaria. Keasbey & Mattison Company. No. 131,514; May 18; v. 274; p. 605.
Remedy for diseases of the heart and nerves. Van Vleet Mansfield Drug Co. No. 131,258; May 4; v. 274; p. 201.
Remedy for horses, Heave. G. Leicht. No. 131,530; May 18; v. 274; p. 605.
Remedy for influenza, &c. E. T. Krebs. No. 131,792; May 25; v. 274; p. 832.
Remedy for la grippe, colds, and headache. D. Klebanoff. No. 131,520; May 18; v. 274; p. 605.
Remedy for rheumatism and sciatica. S. Mazzone. No. 131,550; May 18; v. 274; p. 606.
Resins and volatile oils. Ungerer & Company. No. 131,646; May 18; v. 274; p. 609.
Resistance material. Driver-Harris Company. No. 131,739; May 25; v. 274; p. 830.
Ribbons in the piece. Johnson, Cowdin and Co. No. 131,509; May 18; v. 274; p. 604.
Ribbons, Silk and velvet. Wertheimer Bros. No. 131,880; May 25; v. 274; p. 835.
Rice. Stuttgart Rice Mill Company. No. 131,245; May 4; v. 274; p. 200.
Rings and brooches, Finger-. E. J. Silverman. No. 131,613; May 18; v. 274; p. 608.
Rings, Finger-. Chas. L. Trout Company. Nos. 131,856–8; May 25; v. 274; p. 836.
Road-graders. J. D. Adams & Company. No. 130,597; May 4; v. 274; p. 181.
Rollers for certain named machines. Ideal Roller Company. No 130,760; May 4; v. 274; p. 186.
Roofing and covering for pipes. Delaware Electric & Supply Co. No. 131,075; May 4; v. 274; p. 195.
Roofing, Prepared. Roofbestos Manufacturing Co. No. 131,921; May 25; v. 274; p. 836.
Roofings and shingles, Slate-surfaced. Asphalt Manufacturing Company. No. 130,628; May 4; v. 274; p. 182.
Rope-clamp. R. Loos. No. 131,173; May 4; v. 274; p 198.
Rope, cord, twine. American Manufacturing Company. No. 130,608; May 4; v. 274; p. 181.
Ropes and twines, Fiber. Hooven & Allison Company. Nos. 130,752–5; May 4; v. 274; p. 185.
Rubber and fabric and rubber gloves and bathing-caps. United States Rubber Company. No. 131,251; May 4; v. 274; p. 200.
Rubber boots or shoes. Converse Rubber Shoe Company. No. 131,728; May 25; v. 274; p. 830.
Rubber cements, tread-filler, tire-tape, &c. St. Louis Rubber Cement Co. No. 131,846; May 25; v. 274; p. 834.
Rubber composition soles, half-soles, and heels. The Marathon Tire & Rubber Co. Nos. 130,824–5; May 4; v. 274; p. 188.
Rubber heels. Barva Heel & Tire Factory Inc. No. 131,034; May 4; v. 274; p. 194.
Rubber heels for boots and shoes. Plymouth Rubber Company. No. 130,867; May 4; v. 274; p. 189.
Rubber stamps, hand stamping and marking devices. Century Rubber Stamp Works. No. 131,427; May 18; v. 274; p. 602.
Salt. Crystaline Salt Company. No. 131,732; May 25; v. 274; p. 830.
Salve, J. T. Tucker. No. 131,642; May 18; v. 274; p. 609.
Salve, P. Zatyko. No. 131,683; May 18; v. 274; p. 610.
Salve for eczema. J. Hampton. No. 131,482; May 18; v. 274; p. 604.
Salve for scalp maladies. Di-Testa Co. No. 131,299; May 11; v. 274; p. 399.
Salve for the feet. L. Frolong. No. 131,465; May 18; v. 274; p. 603.
Salve for wounds, &c. V. Peppas. No. 131,573; May 18; v. 274; p. 607.
Salve, Healing-. A. Tramontin. No. 131,640; May 18; v. 274; p. 609.
Salve, Medicinal. M. M. Parzinger. No. 131,816; May 25; v. 274; p. 833.
Salves and ointments. A. Shifrin. No. 131,369; May 11; v. 274; p. 402.
Sanitary napkins. Lewis Manufacturing Company. No. 130,795; May 4; v. 274; p. 187.
Sanitary napkins. Solace Comfort Service Corporation. No. 130,926; May 4; v. 274; p. 191.
Saw-frames and sawing outfits, certain named cutters, &c. The Hartman Company. No. 131,485; May 18; v. 274; p. 604.
Saws. Simonds Manufacturing Company. No. 130,919; May 4; v. 274; p. 190.
Scales, Weighing-. Mason, Davis & Company. No. 130,819; May 4; v. 274; p. 187.
Seed-planting attachment for hoes, &c. W. D. McLaughlin. No. 131,544; May 18; v. 274; p. 606.
Seeds, Corn, grass, and field. H. E. Conklin. No. 130,684; May 4; v. 274; p. 183.
Seeds, Field and grass. Kellogg Seed Co. No. 131,150; May 4; v. 274; p. 197.
Seeds, Field, garden, and flower. A. R. Bruns. No. 130,623; May 4; v. 274; p. 182.
Seismographs, Auricular. Globe Ear-Phone Company. No. 131,311; May 11; v. 274; p. 400.

Shampoo and hair-tonic. E. Ogur. No. 131,567; May 18; v. 274; p. 606.
Shampoos, Liquid and paste. Tipp Whip Company. No. 131,853; May 25; v. 274; p. 834.
Shingles. Howell, Field & Goddard. No. 131,909; May 25; v. 274; p. 836.
Shirtings. Quinebaug Company. No. 131,584; May 18; v. 274; p. 607.
Shirtings, Napped cotton. Burton Bros. & Co. No. 131,717; May 25; v. 274; p. 830.
Shirts, Dress-. Commercial Shirt Company. No. 131,068; May 4; v. 274; p. 195.
Shirts, Men's. Brownstein-Louis Company. No. 130,656-7; May 4; v. 274; p. 183.
Shirts, Men's dress-. Kaplan & Kaplan. No. 131,788; May 25; v. 274; p. 832.
Shirts, Work-. Reliance Manufacturing Company. No. 130,876; May 4; v. 274; p. 144.
Shoe-buckles, combs, &c., Metal. Trifari & Krussman. No. 130,950; May 4; v. 274; p. 191.
Shoe fabrics. Peters Manufacturing Company. No. 130,863; May 4; v. 274; p. 189.
Shoe-polishing paste. W. Newman. No. 131,201; May 4; v. 274; p. 199.
Shoes. Boyden Shoe Manufacturing Company. No. 131,712; May 25; v. 274; p. 830.
Shoes. Dudelif & Company. No. 131,094; May 4; v. 274; p. 196.
Shoes. Johnson, Stephens & Shinkle Shoe Company. No. 131,144; May 4; v. 274; p. 197.
Shoes and slippers, Children's and misses'. The Just Shoe Company. No. 131,145; May 4; v. 274; p. 197.
Shoes, boys' and girls'. H. F. Malott Shoe Co. No. 130,810; May 4; v. 274; p. 187.
Shoes, Canvas outing-. Apsley Rubber Company. No. 130,621; May 4; v. 274; p. 181.
Shoes, Ladies'. D. Cohn. No. 130,676; May 4; v. 274; p. 183.
Shoes, Leather. Milton J. Meyer & Co. No. 130,832; May 4; v. 274; p. 188.
Shoes, Leather. United States Rubber Company. No. 131,250; May 4; v. 274; p. 200.
Shoes, Leather, rubber &c. Marathon Shoe Co. No. 130,812; May 4; v. 274; p. 187.
Shoes made of rubber and canvas. United States Rubber Company. No. 130,958. May 4; v. 274; p. 192.
Shoes, Women's leather. Homan-Hughes Company. No. 130,757; May 4; v. 274; p. 186.
Shortening and frying medium. Aspegren & Co. No. 131,026 May 4; v. 274; p. 194.
Shovels, spades, and scoops. Ames Shovel and Tool Company. No. 131,404; May 18; v. 274; p. 601.
Shovels, spades, scoops, and drainage-tools. Wood Shovel & Tool Co. No. 131,390; May 11; v. 274; p. 402.
Sieves and chaffers for use in threshing-machines. J. H. Coss. No. 131,438; May 18; v. 274; p. 602.
Signs, Permanent unchanging. F. W. Hockaday. No. 131,907; May 25; v. 274; p. 836.
Silk and cotton piece goods and combinations of same. Turner & Walls. No. 131,247; May 4; v. 274; p. 200.
Silk and satin piece goods. McLane Silk Company. No. 131,180; May 4; v. 274; p. 198.
Silk piece goods. Bentley & Twohey Silk Co. No. 131,037; May 4; v. 274; p. 194.
Silk piece goods. Empire Silk Company. No. 131,104; May 4; v. 274; p. 196.
Silk piece goods. Haas Brothers Fabrics' Corporation. No. 131,475; May 18; v. 274; p. 603.
Silk piece goods. Louis Roessel & Co., Inc. No. 131,827; May 25; v. 274; p. 833.
Silk piece goods. Puritan Silks Corporation. No. 131,583; May 18; v. 274; p. 607.
Silks and satins in the piece. Belding Bros. & Co. No. 131,284; May 11; v. 274; p. 399.
Sizing and finishing compounds for textile fabrics and threads. Seydel Manufacturing Company. No. 131,609; May 18; v. 274; p. 608.
Skins and sponges, Chamois-. D. J. Lindner. No. 131,169. May 4; v. 274; p. 198.
Sleeping-garments. S. Ballin. No. 131,033; May 4; v. 274; p. 194.
Snap-fasteners. P. Shin. No. 131,623; May 18; v. 274; p. 608.
Snap-fasteners. United Trimming Co. No. 130,959; May 4; v. 274; p. 192.
Soap. Peerless Mineral Products Co. No. 131,207; May 4; v. 274; p. 199.
Soap. Peet Bros. Manufacturing Co. No. 131,208; May 4; v. 274; p. 199.
Soap. Schofield Oil Co. No. 131,234; May 4; v. 274; p. 200.
Soap. J. B. Williams Company. No. 131,270; May 4; v. 274; p. 201.
Soap, Laundry. West Coast Soap Co. No. 131,875; May 25; v. 274; p. 835.
Soap, Medicated. Saberton Mfg. Co. No. 131,603; May 18; v. 274; p. 608.
Soap, toilet and laundry. Grand Union Tea Co. No. 131,128; May 4; v. 274; p. 197.
Soaps. A. W. Lambert, Jr., & Company. No. 131,524; May 18; v. 274; p. 605.
Soaps for hygienic and medical purposes. Societa Industrie Chimiche Ittiolo. No. 131,239; May 4; v. 274; p. 200.
Soaps, soap tablets, and rug-cleaners, Laundry. C. C. Cummings. No. 131,072; May 4; v. 274; p. 195.
Soda, benzoate of soda, chlorid of lime, &c., Caustic. Southern Sales Corporation. No. 131,625; May 18; v. 274; p. 608.
Sodium-salicylate preparations. The Eli Lilly & Company. No. 131,746; May 25; v. 274; p. 831.
Solder. Federal Mfg. Co. No. 130,718; May 14; v. 274; p. 184.
Solder for aluminium. A. Mirete Ayala. No. 131,406; May 18; v. 274; p. 601.
Soles and heels, Boot and shoe. Armstrong Cork Company. Nos. 130,624-5; May 4; v. 274; p. 182.
Soles and heels, Leather. C. G. Fleckenstein Co. No. 131,111; May 4; v. 274; p. 196.
Spades, shovels. C. Osmundson. No. 130,854; May 4; v. 274; p. 188.
Spaghetti and macaroni. Grand Union Tea Co. No. 131,126; May 4; v. 274; p. 197.
Spark-plug. Brewster-Goldsmith Corp. No. 131,420; May 18; v. 274; p. 601.
Spark-plug tools. Wallace Manufacturing Co. No. 131,385; May 11; v. 274; p. 402.
Spark-plugs. The Brewster-Goldsmith Corporation. No. 131,713; May 25; v. 274; p. 830.
Spark-plugs. Gets Manufacturing Company. No. 131,469; May 18; v. 274; p. 603.
Spark-plugs. Hill Insulating & Manufacturing Corporation. No. 131,489; May 18; v. 274; p. 604.
Spark-plugs. Lydon Manufacturing Co. No. 131,542; May 18; v. 274; p. 606.
Spark-plugs. The Visible Spark Plug Co. No. 130,968; May 4; v. 274; p. 192.
Spark-timer for automobile-engines, Electric. R. B. Lacey. No. 131,794; May 25; v. 274; p. 832.
Sparklers. Victory Sparkler Company. No. 130,966; May 4; v. 274; p. 192.
Speedometers. T. Farmer, Jr. No. 131,458; May 18; v. 274; p. 603.
Spray for animals, Liquid. Lesser Manufacturing Company. No. 131,796; May 25; v. 274; p. 832.
Spray, Medicinal antiseptic. John Wyeth & Brothers. No. 131,889; May 25; v. 274; p. 835.
Starch. H. Kohnstamm & Co. No. 131,522; May 18; v. 274; p. 605.
Stationery articles. William Mitchell (Pens). No. 131,802; May 25; v. 274; p. 832.
Steel. R. Grant. No. 130,737; May 4; v. 274; p. 185.
Steel. J. R. Hogan. No. 131,323; May 11; v. 274; p. 400.
Steel bars, rods, billets, &c. Crucible Steel Company of America. No. 131,439; May 18; v. 274; p. 602.
Steel bars, rods, blocks, and forgings. Crucible Steel Company of America. Nos. 130,691-2; May 4; v. 274; p. 184.
Steel, &c., Composition for tempering. H-B Tempering Process Co. No. 131,477; May 18; v. 274; p. 603.
Steel, Unwrought and partly-wrought. Moses Eadon & Sons. No. 131,449; May 18; v. 274; p. 602.
Sterilizers, Electric. The Automatic Electric Sterilizer Co. No. 131,028; May 4; v. 274; p. 194.
Stock-dipping powder and fluid, Live-. Sheep and Cattle Men's Supply Manufacturing Company. No. 131,620; May 18; v. 274; p. 608.
Stockings and socks. Louis Brun Fils. Nos. 130,659-60; May 4; v. 274; p. 183.
Stove-polish. Grand Union Tea Co. No. 131,127; May 4; v. 274; p. 197.
Stove-polish. A. Hinkley. No. 131,139; May 4; v. 274; p. 197.
Sugar. American Sugar Refining Co. No. 131,021; May 4; v. 274; p. 193.
Sugar. H. L. Day Company. No. 131,441; May 18; v. 274; p. 602.
Sugar and cinnamon combination. M. C. McKenna. No. 130,807; May 4; v. 274; p. 187.
Suits and coats, Women's sporting. Gimbel Brothers. No. 131,759; May 25; v. 274; p. 831.
Suits and overcoats of water-shedding material. Isaac Hamburger & Sons. No. 131,768; May 25; v. 274; p. 851.
Suits and overcoats, Men's. B. H. Levy & Bro. & Co. No. 130,794; May 4; v. 274; p. 187.
Suits and overcoats, Men's. B. H. Levy Bros. & Co. No. 131,166; May 4; v. 274; p. 198.
Suits and overcoats, Men's and youths'. W. P. Goldman & Bros. Inc. No. 131,124; May 4; v. 274; p. 197.
Suits and rompers, Children's. Kiddie Kover Manufacturing Company. No. 130,778; May 4; v. 274; p. 186.
Suits, coats, vests, &c., Men's and boys'. Leopold Solomon and Eisendrath. No. 131,165; May 4; v. 274; p. 198.
Suits, dresses, and skirts, Women's. Kux Brothers. No. 130,788; May 4; v. 274; p. 187.
Suits, Men's. Hays, Levi & Co. No. 131,134; May 4; v. 274; p. 197.
Suppositories, Alkaline antiseptic. Sharp & Dohme. No. 131,611; May 18; v. 274; p. 608.
Suspenders and garters. Nu-Way Strech Suspender Company. No. 131,203; May 4; v. 274; p. 199.
Suspenders and men's garters. J. Zilt. No. 131,008; May 4; v. 274; p. 193.
Suspenders, garters, armbands, &c. J. Silberman. No. 130,917; May 4; v. 274; p. 190.

Suspenders, garters, hose-supporters, &c. Rice-Stix Dry Goods Company. No. 130,881; May 4; v. 274; p. 189.
Suspenders, waist-belts for supporting wearing-apparel, &c. Lion Manufacturing Company. No. 131,171; May 4; v. 271; p. 198.
Suspensory straps. New-Energy Appliance Company. No. 130,846; May 4; v. 274; p. 188.
Sweepers, Electric suction-. Hoover Suction Sweeper Company. No. 130,756; May 4; v. 274; p. 186.
Syrup and beverage made from the same, Concentrated. Fruit Valley Corporation. No. 131,466; May 18; v. 274; p. 603.
Syrup and non-alcoholic beverages made from same. Fruit Valley Corporation. No. 131,755; May 25; v. 274; p. 831.
Syrup for baking purposes, Malt-. O. K. Maurer. No. 131,183; May 4; v. 274; p. 198.
Syrup for non-alcoholic beverages. The Nulomoline Company; No. 131,809; May 25; v. 274; p. 833.
Syrup made of cane-sugar. Archbold Manufacturing Corporation. No. 130,622; May 4; v. 274; p. 181.
Syrup, Malt and corn. Glacier Products Company. No. 130,734; May 4; v. 274; p. 185.
Syrup, Pineapple-extract. Pearl City Fruit Co. No. 131,572; May 18; v. 274; p. 607.
Syrups, Bakers' and confectioners'. Philadelphia Malt Extract Company. No. 131,210; May 4; v. 274; p. 199.
Syrups, Table-. Nulomoline Company. No. 130,852; May 4; v. 274; p. 188.
Syrups used in making soft drinks. Anzac Company. No. 131,701; May 25; v. 274; p. 829.
Table covers, napkins, &c. Arsenio Jose Froes & Company. No. 130,626; May 4; v. 274; p. 182.
Tablet, Laxative. H. E. Hovehmale. No. 131,494; May 18; v. 274; p. 604.
Tablet or wafer, Laxative. J. O. Williamson. No. 131,884; May 25; v. 274; p. 835.
Tablets, Writing-. The H. D. Lee Mercantile Co. No. 131,529; May 18; v. 274; p. 605.
Tablets, Writing-. A. Plough. No. 131,821; May 25; v. 274; p. 833.
Tags, Job and delivery. Albert Jacobs Company. No. 131,143; May 4; v. 274; p. 197.
Talking machine disks. Pathe Freres Phonograph Company. No. 131,817; May 25; v. 274; p. 833.
Talking-machine needles. B. & H. Fibre Mfg. Co. No. 130,719; May 4; v. 274; p. 184.
Talking-machine needles. Morris & Yeomans. No. 131,890; May 25; v. 274; p. 835.
Talking-machine records and music-roll ends. Arto Co., The. No. 131,702; May 25; v. 274; p. 829.
Talking-machines. Perfek'tone Corporation. No. 131,818; May 25; v. 274; p. 833.
Tanks. Riverside Boiler Works. Nos. 130,887-8; May 4; v. 274; pp. 189-90.
Tanks, Septic. Sanitary Engineering Company. No. 131,605; May 18; v. 274; p. 608.
Tanning hides, Chemical for. Rohm & Haas Company. No. 131,599; May 18; v. 274; p. 607.
Tar for roofing composition. The Procter and Gamble Company. No. 131,216; May 4; v. 274; p. 199.
Tea. Grand Union Tea Co. No. 130,736; May 4; v. 274; p. 185.
Tea, spices, cocoa, mustard, &c. Stiles-Pellens Coffee Company. No. 131,244; May 4; v. 274; p. 200.
Teas. Gertrude H. Ford Tea Company. No. 130,722; May 4; v. 274; p. 185.
Teeth, Artificial. The Columbus Dental Manufacturing Company. No. 130,679; May 4; v. 274; p. 183.
Teeth, Compositions for fitting false. Anti-Pyorrhea Chemical Company. No. 130,620; May 4; v. 274; p. 181.
Telegraph apparatus, Detectors for. The Connecticut Telephone & Electric Company. No. 130,685; May 4; v. 274; p. 183.
Telephone-transmitter mouthpiece attachment. Anti-Bacilli Company. No. 131,023; May 4; v. 274; p. 194.
Telephone-transmitter sanitary protectors. Sanitary Phone Corporation. No. 130,904; May 4; v. 274; p. 190.
Textile fabrics. Societe Rodier. No. 131,597; May 18; v. 274; p. 607.
Threads and yarns. Richardson Silk Co. No. 131,222; May 4; v. 274; p. 200.
Timers, Ignition-. Bimblaze Motor Specialties Corporation. No. 130,645; May 4; v. 274; p. 182.
Tire filler, Pneumatic-. Shurefix Manufacturing Co. No. 131,837; May 25; v. 274; p. 833.
Tire pumps, Automobile-. Force Air Pump Company. No. 130,721; May 4; v. 274; p. 185.
Tobacco. The American Tobacco Company. Nos. 130,615-16; May 4; v. 274; p. 181.
Tobacco. R. J. Reynolds Tobacco Company. No. 130,879; May 4; v. 274; p. 189.
Tobacco and cigarettes. The American Tobacco Company. No. 130,617; May 4; v. 274; p. 181.
Toilet powder. George Borgfeldt & Co. No. 131,417; May 18; v. 274; p. 601.
Toilet preparation. G. C. Bittner Co. No. 131,039; May 4; v. 274; p. 194.
Toilet preparations. H. L. Baker & Co. No. 131,706; May 25; v. 274; p. 829.
Toilet preparations. S. Fukuhara. No. 131,467; May 18; v. 274; p. 603.
Toilet preparations. Remiller Company. No. 131,588; May 18; v. 274; p. 607.
Toilet preparations. V. Vivaudou. No. 131,384; May 11; v. 274; p. 402.
Tonic for the treatment of general debility, &c. T. Geary. No. 131,468; May 18; v. 274; p. 603.
Tonic, Plant-. Nevada Chemical Company. No. 131,200; May 4; v. 274; p. 199.
Tonic preparation used for chills and fever. W. E. Speight. No. 131,616; May 18; v. 274; p. 608.
Tools. Harrold Tool & Forge Co. No. 131,133; May 4; v. 274; p. 197.
Tools and parts thereof. The Billings & Spencer Company. No. 130,638; May 4; v. 274; p. 182.
Tools. Pitard's, Inc. No. 131,213; May 4; v. 274; p. 199.
Tools and machinery. The Vulcan Plow Co. No. 131,663; May 18; v. 274; p. 610.
Tools and machinery. The Vulcan Plow Co. No. 131,873; May 25; v. 274; p. 835.
Tools, Mechanics' hand. Mayhew Steel Products. No. 130,828; May 4; v. 274; p. 188.
Tools, transmission-gears, and parts thereof, Machine. Aktiebolnget Gyro. No. 131,474; May 18; v. 274; p. 603.
Tooth-filling. W. G. Turner. No. 130,951; May 4; v. 274; p. 191.
Tooth-paste. A. Carreras. No. 131,424; May 18; v. 274; p. 602.
Topping for ice-cream sundaes and hot chocolate. Nebraska Fountain & Supply Co. No. 130,845; May 4; v. 274; p. 188.
Towels and toweling. Converse & Company. No. 131,727; May 25; v. 274; p. 830.
Toy vehicles. H. D. Lafferty. No. 131,009; May 4; v. 274; p. 193.
Toys, Wooden. G. Sato. No. 130,905; May 4; v. 274; p. 190.
Tractors. Hebb Motors Company. No. 131,487; May 18; v. 274; p. 604.
Tractors. Turner Manufacturing Company. No. 131,643; May 18; v. 274; p. 609.
Tractors. Wallis Tractor Company. No. 130,982; May 4; v. 274; p. 192.
Trolleys, cranes, and tongs, for hoisting, &c., and portable elevators. New Jersey Foundry & Mach. Co. No. 130,848; May 4; v. 274; p. 188.
Trousers. Robert Lawson & Sons. No. 130,791; May 4; v. 274; p. 187.
Trousers-supporters. L. Woods. No. 131,273; May 4; v. 274; p. 201.
Trucks and passenger-automobiles, Motor-. Stewart Motor Corporation. No. 130,932; May 4; v. 274; p. 191.
Trucks, Automobile-. American Commercial Car Co. No. 131,016; May 4; v. 274; p. 193.
Trucks, Automobile-. The Kelly-Springfield Motor Truck Company. Nos. 131,151-2; May 4; v. 274; p. 197.
Trucks, Motor-. F. W. Ruggles. No. 131,229; May 4; v. 274; p. 200.
Twine. American Twine Co. No. 130,618; May 4; v. 274; p. 187.
Typewriting-machine. Underwood Typewriter Company. No. 131,645; May 18; v. 274; p. 609.
Underwear. The B. V. D. Company. No. 130,663; May 4; v. 274; p. 183.
Underwear. Cooper Underwear Company. No. 131,070; May 4; v. 274; p. 195.
Underwear. Universal Merchandise Company. No. 130,961; May 4; v. 274; p. 192.
Underwear, Ladies' muslin and silk. C. A. Kupferman Co. No. 131,793; May 25; v. 274; p. 832.
Underwear, Ladies' silk. Graceline Manufacturing Company. No. 130,735; May 4; v. 274; p. 185.
Underwear, Ladies' silk and cotton woven. Lehman Brothers. No. 131,164; May 4; v. 274; p. 198.
Underwear, petticoats, and waists. Carteret Silk Company. No. 130,667; May 4; v. 274; p. 183.
Underwear, Women's silk. Windsor Undersilks, Inc. No. 131,885; May 25; v. 274; p. 835.
Upholstery and cabinet hardware. Berbecker & Rowland Manufacturing Company. No. 131,038; May 4; v. 274; p. 194.
Valve grinders and refacing tools, &c. Albertson & Company. No. 130,599; May 4; v. 274; p. 181.
Valve-grinding compounds. S. & P. Manufacturing Co. No. 131,231; May 4; v. 274; p. 200.
Valves for machinery. Nash Engineering Co. No. 130,838; May 4; v. 274; p. 188.
Valves for tires, pneumatic cushions, life-preservers, &c., Air-. Griffin Mfg. Co. No. 131,315; May 11; v. 274; p. 400.
Varnish preparation. Titanine, Inc. No. 131,854; May 25; v. 274; p. 834.
Varnished and enameled surfaces, Polish for. Stickney Color Company No 131,845; May 25; v. 274; p. 834.
Varnishes, &c., for coloring, &c., straw braid in one operation. A. R. Haeuser Co. No. 131,767; May 25; v. 274; p. 831.
Varnishes, shellacs, &c., for ladies' straw hats. A. R. Haeuser Co. No. 131,766; May 25; v. 274; p. 831.
Vaults, Grave-. National Grave Vault Company. No. 130,841; May 4; v. 274; p. 188.
Vehicle bodies, Commercial-motor-. Vehicle Top & Supply Company. No. 131,259; May 4; v. 274; p. 201.

Vehicle-tops. The General Top Company. No. 131,117; May 4; v. 274; p. 196.
Veilings and nettings. Traub, Lewis & Co. No. 130,948; May 4; v. 274; p. 191.
Ventilators, Cowl-. E. Van Noorden & Co. No. 131,255; May 4; v. 274; p. 201.
Veterinary medicine. J. D. Shields. No. 131,612; May 18; v. 274; p. 608.
Voiles in the piece. M. Schwarz. No. 131,619; May 18; v. 274; p. 608.
Voltmeters, Armature-testers, &c. American Bureau of Engineering. No. 130,604; May 4; v. 274; p. 181.
Walnut sauce and pickled walnuts. California Walnut Sauce Co. No. 130,664; May 4; v. 274; p. 183.
Watchcases. Dinstman & Laske. No. 131,445; May 18; v. 274; p. 602.
Watches. Knickerbocker Watch Co. Nos. 131,156–8; May 4; v. 274; p. 198.
Watches. Simmons Hardware Company. No. 130,918; May 4; v. 274; p. 190.
Watches and clocks. E. Rothman. No. 130,895; May 4; v. 274; p. 190.
Watches and clocks. Thos. Russell & Son. No. 130,900; May 4; v. 274; p. 190.
Water. Electrified Water and Machine Company. No. 131,744; May 25; v. 274; p. 831.
Water, Artificial mineral. Valentin, Ord & Co. No. 131,655; May 18; v. 274; p. 609.
Water, Carbonated. C. G. Mangos. No. 131,546; May 18; v. 274; p. 606.
Waters, Mineral and aerated. W. A. Ross & Sons. No. 131,366; May 11; v. 274; p. 401.
Waterproof diaper-covers. The Warner Bros. Co. No. 130,985; May 4; v. 274; p. 192.
Waterproof dressing for leather, &c. G. W. Baker. No. 131,030; May 4; v. 274; p. 194.
Waterproof goods. Union City Manufacturing Co. No. 130,953; May 4; v. 274; p. 191.
Waterproofing compound. A. H. Rothschild. No. 131,922; May 25; v. 274; p. 836.
Webbing, Elastic and non-elastic. American Webbing Manufacturers Export Corporation. No. 131,403; May 18; v. 274; p. 601.
Webbings. Anchor Webbing Co. No. 130,619; May 4; v. 274; p. 181.
Welding-machines, Electric. Electric Welding Machine Co. No. 131,743; May 25; v. 274; p. 831.
Well-drilling machinery and tools and well equipment. Longhorn Drilling & Developing Association. No. 131,537; May 18; v. 274; p. 605.
Wheels, Automobile and aeroplane. Reliance Wheel Co. No. 130,890; May 4; v. 274; p. 190.
Wheels, Cast-metal vehicles-. Kenosha Wheel & Axle Company. No. 131,153; May 4; v. 274; p. 197.
Wheels, Felt polishing-. Eastern Felt Company. No. 131,900; May 25; v. 274; p. 836.
Whistles, Electric steam alarm-. C. M. Lovsted. No. 130,799; May 4; v. 274; p. 187.
Whiting. R. T. Vanderbilt Company. No. 131,253; May 4; v. 274; p. 201.
Wire, rods, sheets, &c. Driver-Harris Company. No. 131,300; May 11; v. 274; p. 399.
Woolen and cotton piece goods. China & Japan Trading Company. No. 131,722; May 25; v. 274; p. 830.
Woolen piece goods. Forstmann & Huffmann Co. No. 130,723; May 4; v. 274; p. 185.
Woolen piece goods. Forstmann & Huffmann. Nos. 131,462–3; May 18; v. 274; p. 603.
Worm-exterminator. C. J. Martin. No. 131,549; May 18; v. 274; p. 606.
Worsted-winders. E. B. Estes & Sons. No. 131,105; May 4; v. 274; p. 196.
Wrenches. J. H. Faw Inc. No. 130,717; May 4; v. 274; p. 184.
Wrenches. Packer Auto Specialty Co. No. 131,359; May 11; v. 274; p. 401.
Wrenches and socket-wrench sets. L. Druland. No. 131,301; May 11; v. 274; p. 399.
Wrenches, pipe-cutters, &c. Larco Wrench and Mfg. Corporation. No. 131,336; May 11; v. 274; p. 401.
Wrenches, Ratchet-. W. B. Lane. No. 130,995; May 4; v. 274; p. 193.
Yarn, Wool knitting-. Sears, Roebuck and Co. No. 131,829; May 25; v. 274; p. 833.

ALPHABETICAL LIST OF LABELS.

"American Leader." (For Flour.) Bay City Milling Co. No. 21,853; May 11; v. 274; p. 403.
"Anatolikos Astir." (For Coffee.) The Commercial Tea & Coffee Co. No. 21,854; May 11; v. 274; p. 403.
"Bro-Wal." (For Bitter-Wine Tonic.) Scranton Distributing and Mfg. Co. No. 21,871; May 25; v. 274; p. 837.
"Chocolate Covered Nuts." (For Chocolate Candy—namely, Chocolate-Covered Nuts.) Milwaukee Paper Box Company. No. 21,864; May 11; v. 274; p. 403.
"Everywhere on Everything." (For Prints, Varnishes, Colors, and Insecticides.) The Glidden Company. No. 21,855; May 11; v. 274; p. 403.
"Export Beverage—Extra Fine." (For a Certain Beverage.) W. B. Giller. No. 21,868; May 11; v. 274; p. 403.
"Holco Brand Sardines." (For Sardines.) Holtrans Company. No. 21,856; May 11; v. 274; p. 403.
"Magnus Stomach Bitters." (For a Proprietary Medicine.) Magnus Drug Chemical Company. No. 21,857; May 11; v. 274; p. 403.
"Mason Mints." (For Mint Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. Nos. 21,862–3; May 11; v. 274; p. 403.
"Mason's Khufu." (For Chocolate Cocoanut Cream Bars.) Mason, Au & Magenheimer Confectionery Mfg. Co. Nos. 21,859–60; May 11; v. 274; p. 403.
"Mason's Nut Malobar." (For Chocolate Marshmallow Candy.) Mason, Au & Magenheimer Confectionery Mfg. Co. No. 21,861; May 11; v. 274; p. 403.
"Mrs. Shepard's Fruit Flakes." (For Flaked and Cooked Fruits—namely, Apples.) Shepard Fruit Products Company. No. 21,865; May 11; v. 274; p. 403.
"Orange-Cola." (For Orange-Cola Beverage.) J. L. Shipp. No. 21,872; May 25; v. 274; p. 837.
"Peerless Laundry Tablets." (For Laundry Tablets.) The M. & S. Chemical Co. No. 21,858; May 11; v. 274; p. 403.
"Soap Baby." (For Soap.) The Pennsylvania Soap Company. No. 21,869; May 18; v. 274; p. 612.
"Swiss-Alpine Style Sweet Milk Chocolate." (For Sweet Chocolate.) York Chocolate Company. No. 21,867; May 11; v. 274; p. 403.
"Tip-Top." (For Bread.) E. Frisch. No. 21,870; May 25; v. 274; p. 837.
"Welch-Apl." (For a Non-Alcoholic Beverage Consisting of Apple Syrup and Carbonated Water.) The Welch Grape-Juice Company. No. 21,866; May 11; v. 274; p. 403.

ALPHABETICAL LIST OF PRINTS.

"Comfort Coke." (For Fuel-Coke.) United Fuel & Supply Company. No. 5,257; May 11; v. 274; p. 403.
"Starting Right! Bon Bon never Disappoints." (For Baking-Powder.) J. C. Grant Chemical Co. No. 5,256; May 11; v. 274; p. 403.
"Taking Care of Ball Bearings of Our Little Giant Line of Grinding Mills." (For Ball-Bearings of Our Little Giant Line of Grinding Mills Used as Feed-Grinders.) Williams Patent Crusher & Pulverizer Co. No. 5,258; May 11; v. 274; p. 403.

DISCLAIMERS.

Carburetor. H. V. J. Jouffret and J. M. Renée. No. 1,002,700; date of patent Sept. 5, 1911; disclaimer filed Apr. 21, 1920; v. 274; p. 208.
Screen, Metal. H. W. and W. W. Watson. No. 836,475; date of patent Nov. 20, 1906; disclaimer filed Apr. 30, 1920; v. 274; p. 411.

CLASSIFICATION OF PATENTS

MAY, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 47: 1,340,705
48: 1,339,307
2— 9: 1,339,129
1,341,451
41: 1,340,381
53: 1,338,783
60: 1,340,351
63: 1,339,274
84: 1,340,755
114: 1,339,154
118: 1,339,286
126: 1,340,276
143: 1,341,120
144: 1,339,116
1,340,915
1,341,224
1,341,313
1,341,317
1,341,506
147: 1,340,117
149: 1,339,731
1,340,701
150: 1,340,465
3— 6: 1,340,239
4— 1: 1,340,126
5: 1,339,690
18: 1,339,585
1,340,611
19: 1,340,680
21: 1,340,567
26: 1,339,593
1,341,485
5— 4: 1,338,741
1,340,609
8: 1,339,250
9: 1,339,650
12: 1,341,342
33: 1,339,738
1,339,880
1,341,564
37: 1,340,212
1,340,735
39: 1,340,510
40: 1,340,540
41: 1,340,338
1,341,483
55: 1,341,068
58: 1,339,355
1,340,694
67: 1,341,441
70: 1,338,774
72: 1,340,015
1,340,204
6— 1: 1,341,364
7— 4: 1,341,193
11: 1,339,698
8— 13: 1,340,246
19: 1,339,184
9— 6: 1,340,441
8: 1,339,321
17: 1,341,272
1,341,529
20: 1,339,617
21: 1,340,892
1,341,290
22: 1,339,532
1,339,647
1,340,847
24: 1,340,920
10— 114: 1,340,227
120: 1,340,972
120.5: 1,338,863
1,338,864
1,338,865
122: 1,339,473
154: 1,339,223
12— 1: 1,340,143
1,340,825
1,341,183
20: 1,338,957
23: 1,340,520
63: 1,341,164
78: 1,339,591
131: 1,340,994
146: 1,339,160
1,341,059
13— 5: 1,340,044
9: 1,340,691
1,341,168
18: 1,341,603
13— 19: 1,340,063
21: 1,339,825
14— 58: 1,341,332
15— 13: 1,338,665
1,340,931
16: 1,340,283
17: 1,340,133
19: 1,341,526
20: 1,339,767
30: 1,341,091
37: 1,338,821
1,339,700
1,339,864
1,340,040
1,340,093
1,340,760
41: 1,338,917
46: 1,340,775
48: 1,339,745
50: 1,339,065
52: 1,340,115
56: 1,339,026
1,339,398
1,339,830
1,339,925
59: 1,339,216
1,339,241
1,340,794
1,341,590
60: 1,338,791
1,339,280
16— 4: 1,341,133
5: 1,340,151
7: 1,341,584
11: 1,340,862
1,340,866
77: 1,340,621
88: 1,339,479
107: 1,341,063
108: 1,340,430
111: 1,339,799
159: 1,340,476
165: 1,339,805
1,341,384
171: 1,340,604
173: 1,338,908
17— 14: 1,339,901
24: 1,339,590
1,339,623
1,340,219
18— 2: 1,340,234
1,340,776
1,341,422
6: 1,339,736
13: 1,340,463
17: 1,338,844
18: R. 14,852
1,339,151
1,340,641
1,340,642
1,340,973
34: 1,340,440
50: 1,340,965
52: 1,340,777
55: 1,339,134
56: 1,339,789
59: 1,340,041
61: 1,341,528
19— 9: 1,340,201
15: 1,339,888
20— 1.4: 1,340,890
1,340,922
1.42: 1,341,533
5: 1,339,915
6: 1,339,425
16: 1,340,084
20: 1,341,041
24: 1,339,790
28: 1,340,506
30: 1,341,397
38: 1,340,161
40: 1,340,069
42: 1,341,366
1,341,434
62: 1,340,252
67: 1,339,775
113: 1,340,045
21— 31: 1,341,465
69: 1,338,936
21— 69: 1,339,439
1,339,913
1,340,220
1,340,697
1,340,773
1,340,961
1,341,308
150: 1,339,298
1,339,786
151: 1,339,376
207: 1,341,093
22— 3: 1,341,557
1,341,608
9: 1,340,658
32: 1,339,354
65: 1,340,337
79: 1,340,422
105: 1,339,642
112: 1,339,133
203: 1,341,461
206: 1,339,096
23— 1: 1,339,494
1,339,519
1,340,290
1,341,462
3: 1,338,967
1,340,346
1,340,838
1,341,115
10: 1,341,114
1,341,423
11: 1,338,678
1,339,431
13: 1,338,831
1,339,242
1,339,706
1,340,649
1,340,888
1,340,905
1,341,288
1,341,361
22: 1,341,110
24: 1,338,979
1,339,310
1,339,675
1,339,947
1,340,603
1,340,696
28: 1,338,698
1,338,709
1,339,686
31: 1,341,187
42: 1,340,490
24— 1: 1,339,520
3: 1,338,702
1,339,213
11: 1,338,933
1,339,359
16: 1,338,875
1,339,317
19: 1,340,937
1,340,938
33: 1,341,359
66: 1,340,180
79: 1,339,309
81: 1,339,073
88: 1,340,858
102: 1,339,314
1,339,713
1,341,130
103: 1,340,073
106: 1,339,234
109: 1,340,390
126: 1,341,438
132: 1,339,419
133: 1,339,420
134: 1,340,851
135: 1,340,730
139: 1,340,095
143: 1,340,669
159: 1,340,533
168: 1,340,302
174: 1,340,792
179: 1,341,315
183: 1,341,314
194: 1,340,303
1,340,821
205: 1,340,187
206: 1,340,284
214: 1,338,883
24— 216: 1,341,043
217: 1,341,600
226: 1,340,334
231: R. 14,851
1,339,986
1,340,048
236: 1,338,686
241: 1,339,004
245: 1,338,733
1,340,985
248: 1,341,210
259: 1,340,070
261: 1,340,745
25— 1: 1,339,535
1,339,712
14: 1,338,799
20: 1,340,929
1,340,969
27: 1,340,452
41: 1,340,860
45: 1,340,824
121: 1,339,270
1,340,952
131: 1,339,912
132: 1,339,601
135: 1,340,633
142: 1,338,771
1,341,550
156: 1,340,308
157: 1,341,077
1,341,078
26— 7: 1,340,482
8: 1,339,509
1,340,809
18: 1,339,826
28— 4: 1,340,425
5: 1,339,869
14: 1,339,182
21: 1,341,579
40: 1,340,487
29— 1.11: 1,338,871
1,338,872
7: 1,339,443
18: 1,340,149
26: 1,339,409
29: 1,339,816
33: 1,341,453
36: 1,338,742
70: 1,339,815
1,340,400
76: 1,341,047
1,341,369
80: 1,339,658
81: 1,339,348
83: 1,340,509
84: 1,338,697
1,339,210
1,339,434
85: 1,339,773
1,339,774
86.1: 1,339,157
87.1: 1,339,289
1,339,422
1,340,192
88.2: 1,341,132
1,341,322
103: 1,338,822
105: 1,340,474
148: 1,338,779
1,339,722
1,340,032
1,340,166
1,340,844
1,341,205
1,341,271
156: 1,339,672
156.1: 1,340,037
167: 1,340,528
174: 1,340,945
30— 3: 1,341,421
10: 1,341,153
11: 1,340,800
12: 1,338,908
13: 1,339,797
24: 1,339,282
31— 68: 1,340,479
78: 1,340,037
99: 1,341,430
1,341,191
32— 4: 1,339,640
1,339,821
5: 1,340,213
9: 1,338,959
10: 1,341,170
12: 1,339,812
1,340,089
1,340,959
33— 1: 1,338,730
1,340,936
1,341,036
6: 1,339,702
27: 1,341,457
44: 1,341,481
46: 1,339,450
1,339,919
1,340,573
47: 1,339,248
55: 1,340,996
56: 1,340,453
63: 1,340,619
64: 1,338,951
1,340,618
67: 1,339,130
73: 1,341,209
76: 1,339,644
1,340,623
87: 1,338,935
97: 1,339,405
109: 1,338,962
115: 1,341,435
117: 1,340,125
133: 1,339,748
134: 1,340,218
145: 1,339,896
191: 1,340,473
192: 1,338,800
199: 1,338,670
1,339,573
201: 1,340,022
207: 1,341,553
215: 1,339,787
216: 1,340,995
223: 1,338,666
1,340,296
34— 5: 1,338,696
1,338,731
1,339,032
1,339,365
1,340,692
6: 1,339,260
12: 1,339,092
19: 1,339,705
23: 1,339,771
26: 1,339,784
1,341,405
39: 1,339,119
35— 2: 1,340,052
8: 1,340,529
36— 1: 1,341,498
5: 1,339,904
13: 1,338,947
44— 8: 1,338,982
1,338,983
45— 2: 1,340,562
11: 1,340,370
13: 1,340,014
26: 1,339,525
27: 1,338,834
1,339,501
28: 1,339,166
1,340,327
31: 1,339,232
37: 1,341,106
52: 1,340,766
54: 1,340,317
77: 1,339,842
78: 1,341,195
98: 1,340,319
98: 1,339,673
116: 1,339,389
1,340,065
1,341,083
46— 4: 1,338,860
8: 1,341,376
9: 1,340,395
37— 25: 1,338,784
30: 1,339,341
33: 1,340,247
49: 1,339,548
54: 1,339,606
56: 1,340,385
60: 1,340,263
61: 1,341,005
38— 10: 1,339,240
40— 2: 1,339,007
5: 1,340,998
10: 1,340,387
11: 1,341,491
16: 1,340,724
21: 1,339,180
64: 1,338,790
67: 1,338,703
68: 1,341,116
86: 1,338,892
115: 1,339,401
130: 1,340,067
132: 1,340,145
1,341,201
134: 1,339,019
140: 1,340,778
141: 1,341,251
145.1: 1,339,703
1,340,711
146: 1,341,560
159: 1,340,369
41— 9: 1,339,457
1,340,975
10: 1,340,863
25.5: 1,339,127
31: 1,339,259
33: 1,340,342
38: 1,339,892
42— 1: 1,341,117
3: 1,338,866
1,340,891
1,340,943
42: 1,339,867
72: 1,340,127
43— 4: 1,340,677
7: 1,341,552
12: 1,339,275
1,340,874
22: 1,339,238
24: 1,340,372
32: 1,339,231
37: 1,340,780
41: 1,338,877
45: 1,339,189
1,339,832
46: 1,338,856
1,338,953
1,341,618
52: 1,339,697
61: 1,339,135
76: 1,340,801
81: 1,339,481
1,340,442
118: 1,341,416
119: 1,340,779
137: 1,340,767
145: 1,339,556
44— 8: 1,338,982
1,338,983
45— 2: 1,340,562
11: 1,340,370
13: 1,340,014
26: 1,339,525
27: 1,338,834
1,339,501
28: 1,339,166
1,340,327
31: 1,339,232
37: 1,341,106
52: 1,340,766
54: 1,340,317
77: 1,339,842
78: 1,341,195
98: 1,340,319
98: 1,339,673
116: 1,339,389
1,340,065
1,341,083
46— 4: 1,338,860
8: 1,341,376
9: 1,340,395

46— 21: 1,341,360
1,339,493
1,339,536
27: 1,340,570
1,341,219
1,341,220
31: 1,340,758
36: 1,338,879
37: 1,340,047
1,340,394
1,340,614
40: 1,338,944
1,340,109
1,340,160
1,340,848
41: 1,338,973
1,339,251
1,339,399
1,340,512
45: 1,339,165
1,341,102
46: 1,340,746
51: 1,338,813
56: 1,340,278
1,340,304
1,340,612
59: 1,339,871
1,341,185
61: 1,339,285
1,339,343
62: 1,338,963
63: 1,340,001
64: 1,339,013
47— 22: 1,340,631
48— 85.1: 1,341,044
204: 1,340,495
49— 3: 1,341,282
7: 1,338,941
17: 1,339,229
32: 1,341,547
38: 1,340,366
47: 1,338,992
1,341,031
50: 1,339,200
51— 3: 1,341,500
4: 1,338,685
1,339,027
1,339,746
1,339,860
1,340,030
1,340,031
1,340,408
1,340,409
7: 1,339,043
1,339,202
1,339,511
16: 1,339,397
20: 1,338,920
1,339,185
29: 1,340,756
1,341,001
178: 1,340,991
211: 1,340,751
52— 3: 1,338,691
1,341,207
5: 1,339,975
1,341,012
6: 1,339,142
1,339,143
1,339,144
1,339,145
1,339,146
1,339,147
1,339,148
1,339,149
1,339,150
53— 1: 1,340,336
1,340,566
1,341,353
3: 1,338,830
1,339,008
1,341,285
1,341,520
4: 1,339,662
6: 1,339,625
1,340,659
54— 24: 1,340,271
30: 1,339,777
65: 1,338,931
55— 13: 1,339,605
39: 1,339,436
1,341,196
45: 1,340,624
74: 1,341,365
88: 1,341,159
103: 1,341,538
1,341,539
107: 1,339,574
108: 1,340,796
56— 10: 1,339,278
1,339,924
16: 1,340,461
18: 1,338,773
32: 1,341,039
44: 1,340,577

56— 58: 1,340,816
193: 1,339,674
202: 1,338,573
300: 1,340,868
303: 1,341,212
351: 1,340,763
395: 1,340,391
417: 1,341,586
422: 1,341,167
424: 1,340,791
474: 1,340,088
54: 1,341,298
86: 1,339,941
88: 1,340,003
127: 1,338,745
59— 25: 1,340,639
78: 1,341,052
80: 1,340,765
96: 1,339,631
99: 1,341,228
60— 11: 1,339,177
13: 1,339,483
1,340,527
16: 1,339,176
41: 1,339,730
1,340,563
1,341,229
51: 1,340,547
70: 1,339,508
91: 1,341,443
61— 47: 1,340,670
56: 1,340,397
67: 1,339,293
62— 4: 1,340,646
109: 1,339,659
118: 1,339,622
63— 17: 1,341,218
21: 1,340,206
64— 4: 1,341,440
5: 1,339,893
1,340,120
10: 1,339,084
12: 1,341,595
17: 1,339,574
24: 1,339,476
1,341,415
25: 1,339,228
27: 1,341,420
30: 1,339,811
34: 1,340,808
36: 1,339,308
1,340,663
38: 1,338,868
1,339,277
39: 1,340,693
49: 1,340,396
55: 1,340,102
59: 1,340,250
1,340,310
62: 1,338,939
1,339,991
1,340,941
64: 1,338,747
1,338,763
66: 1,339,455
70: 1,340,456
72: 1,341,019
80: 1,338,904
89: 1,341,615
90: 1,338,751
1,340,610
91: 1,340,368
1,340,447
105: 1,339,273
65— 13: 1,340,886
28: 1,341,261
31: 1,340,872
45: 1,339,173
48: 1,339,164
49: 1,340,551
53: 1,338,833
65: 1,341,343
66— 4: 1,339,592
5: 1,339,959
6: 1,338,809
7: 1,340,152
12: 1,340,681
1,340,695
1,341,324
17: 1,340,255
1,340,541
24: 1,339,715
28: 1,339,708
36: 1,339,788
67— 50: 1,340,424
53: 1,341,122
59: 1,339,699
87: 1,340,843
68— 3: 1,340,159
1,341,591
9: 1,339,917
1,340,519
1,340,522
10: 1,339,831
1,340,265

68— 18: 1,339,588
20: 1,341,073
26: 1,340,257
29: 1,338,930
1,339,292
32: 1,340,772
34: 1,340,494
37: 1,340,543
69— 17: 1,339,776
70— 8: 1,341,439
9: 1,340,850
14: 1,339,267
19: 1,339,446
1,340,583
29: 1,341,599
47: 1,340,804
53: 1,338,796
1,339,668
54: 1,341,602
74: 1,341,038
90: 1,341,281
91: 1,339,721
105: 1,340,928
108: 1,341,169
122: 1,339,075
124: 1,339,412
126: 1,338,913
1,340,326
128: 1,338,945
1,340,051
1,340,393
129: 1,339,329
130: 1,341,055
132: 1,341,325
71— 9: 1,340,708
1,341,598
10: 1,341,030
72— 7: 1,339,920
13: 1,339,062
38: 1,339,596
1,340,656
41: 1,341,071
46: 1,339,360
51: 1,338,885
56: 1,341,270
66: 1,339,388
71: 1,340,291
82: 1,339,819
85: 1,339,220
88: 1,340,459
105: 1,340,752
1,341,585
111: 1,339,226
73— 1: 1,341,056
28: 1,340,293
31: 1,338,981
1,341,582
32: 1,339,952
51: 1,341,431
54: 1,339,383
1,339,561
68: 1,339,909
98: 1,338,852
109: 1,339,989
1,340,198
110: 1,340,148
1,340,399
111: 1,341,542
165: 1,340,275
74— 1: 1,339,276
5: 1,340,802
1,340,823
7: 1,340,829
1,341,217
1,341,286
13: 1,340,897
14: 1,340,329
17: 1,340,171
1,340,172
1,340,173
26: 1,341,477
29: 1,341,466
32: 1,338,808
1,339,523
33: 1,340,638
1,341,032
34: 1,338,767
1,339,643
1,341,223
1,341,442
36: 1,339,097
1,341,309
1,341,616
39: 1,339,660
1,341,256
1,341,566
41: 1,338,672
1,338,823
1,340,011
45: R. 14,857
1,339,380
46: 1,339,052
1,339,058
1,339,203
1,339,474

74— 46: 1,339,587
1,340,301
1,340,333
1,341,268
51: 1,339,408
1,340,113
54: 1,340,486
55: 1,339,411
56: 1,339,758
1,339,766
58: 1,338,974
1,339,477
1,340,585
1,341,237
59: 1,341,392
63: 1,341,470
66: 1,339,287
69: 1,341,395
70: 1,338,980
79: 1,339,454
1,341,326
1,341,334
1,341,349
81: 1,341,222
1,341,504
99: 1,341,276
100: 1,338,720
101: 1,340,328
105: 1,338,780
106: 1,340,620
107: 1,339,435
108: 1,339,427
1,339,956
1,341,548
109: 1,340,650
112: 1,340,321
115: 1,340,323
118: 1,340,322
75— 1: 1,338,826
1,338,966
1,339,009
1,339,378
1,339,505
1,340,451
1,341,508
14: 1,340,548
17: 1,338,764
1,340,580
18: 1,341,601
19: 1,339,544
1,339,545
50: 1,339,469
76— 35: 1,339,153
82: 1,339,725
101: 1,339,152
1,341,436
114: 1,340,560
77— 11: 1,341,292
21: 1,339,461
22: 1,340,953
28: 1,338,752
32: 1,339,044
58: 1,341,565
59: 1,339,958
63: 1,340,841
72: 1,339,118
78— 1: 1,340,138
21: 1,339,054
34: 1,341,545
46: 1,339,453
50: 1,340,196
52: 1,340,361
53.5: 1,341,370
96: 1,340,640
79— 3: 1,340,515
80— 41: 1,339,108
48: 1,340,129
62: 1,341,204
81— 1: 1,341,373
3: 1,340,787
3.1: 1,341,513
15: 1,338,804
1,339,217
18: 1,339,448
36: 1,340,147
1,340,477
64: 1,341,147
66: 1,339,253
68: 1,341,069
88: 1,341,532
102: 1,340,622
119: 1,341,178
147: 1,341,094
157: 1,340,092
169: 1,340,287
195: 1,338,773
1,339,641
82— 1: 1,339,791
4: 1,341,482
1,341,577
5: 1,339,836
8: 1,339,017
19: 1,338,757
1,339,983
21: 1,340,811

82— 24: 1,339,984
32: 1,339,837
44: 1,339,877
83— 11: R. 14,865
1,339,499
1,339,950
1,340,643
1,340,758
12: 1,338,845
13: 1,340,635
14: 1,339,932
1,339,933
26: 1,340,714
42: 1,341,200
56: 1,340,990
64: 1,339,098
71: 1,339,300
1,340,457
73: 1,340,880
1,340,947
75: 1,341,156
82: 1,339,682
1,339,683
85: 1,341,024
88: 1,339,161
91: 1,340,353
1,340,732
92: 1,341,278
1,341,463
84— 24: 1,340,162
33: 1,339,960
44: 1,339,953
61: 1,340,019
78: 1,339,418
96: 1,341,035
116: 1,341,072
121: 1,339,318
1,341,199
125: 1,341,351
133: 1,340,098
135: 1,339,261
144: 1,339,689
146: 1,339,196
1,340,628
150: 1,340,569
161: 1,340,175
1,340,360
168: 1,339,848
178: 1,340,017
233: 1,341,425
85— 3: 1,340,470
7: 1,341,175
16: 1,338,988
39: 1,339,197
1,339,198
45: 1,340,432
47: 1,340,737
48: 1,339,204
87— 4: 1,340,653
5: 1,340,315
6: 1,338,909
1,341,523
7: 1,340,721
9: 1,340,316
12: 1,340,050
1,340,186
16: 1,339,126
88— 1: 1,339,342
1,341,338
2.7: 1,339,006
1,339,235
16: 1,340,539
1,340,557
1,341,527
16.4: 1,340,923
17: 1,338,695
1,339,366
18.7: 1,341,108
19.3: 1,340,887
24: 1,338,818
1,339,090
1,339,279
1,341,467
33: 1,339,386
41: 1,340,579
1,340,875
42: 1,339,974
47: 1,341,344
1,341,503
52: 1,338,880
53: 1,340,879
54: 1,340,021
1,340,189
1,340,715
56: 1,339,031
58: 1,341,259
67: 1,338,738
214: 1,338,985
89— 1: 1,338,676
7: 1,340,689
13: 1,340,791
21: 1,340,215
27: 1,339,390
31: 1,341,363
35: 1,341,111
37: 1,340,111

89— 40: 1,339,410
1,340,415
1,341,385
1,341,386
42: 1,339,614
90— 3: 1,339,921
1,341,541
1,340,359
12.5: 1,339,359
14: 1,341,094
15: 1,339,029
1,339,490
1,341,252
18: 1,341,300
21: 1,340,584
1,340,586
33: 1,339,656
1,339,657
36: 1,340,256
53: 1,341,206
58: 1,340,741
91— 2: 1,341,253
3: 1,341,023
12.2: 1,338,782
1,338,940
13: 1,339,106
1,339,107
31: 1,340,294
44: 1,340,645
46: 1,339,400
47: 1,339,467
51: 1,341,311
55: 1,340,544
59.2: 1,341,495
67.4: 1,340,028
68: 1,339,462
1,339,529
1,340,655
70.2: 1,339,710
92— 2: 1,339,489
3: 1,338,827
23: 1,338,860
93— 2: 1,339,808
1,341,184
1,341,408
44: 1,338,749
58: 1,340,558
60: 1,339,315
61: 1,340,909
81: 1,340,110
88: 1,339,887
94— 5: 1,338,801
14: 1,340,896
18: 1,339,094
23: 1,341,458
41: 1,340,131
47: 1,339,069
95— 11: 1,341,017
31: 1,341,543
42: 1,339,319
75: 1,340,209
1,340,511
77: 1,338,894
81: 1,341,610
100: 1,339,088
97— 11: 1,340,392
13: 1,339,586
33: 1,339,840
34: 1,341,231
35: 1,339,864
1,341,240
36: 1,341,182
37: 1,339,040
41: 1,341,064
42: 1,340,784
45: 1,340,057
66: 1,339,371
71: 1,341,098
82: 1,339,222
98— 4: 1,340,033
26: 1,339,437
1,341,275
27: 1,340,673
32: 1,339,761
99— 2: 1,339,212
1,339,325
1,340,921
11: 1,338,684
1,339,528
1,341,040
12: 1,339,489
60: 1,339,603
100— 3: 1,340,388
25: 1,340,964
1,340,971
31: 1,339,396
44: 1,339,193
47: 1,339,600
1,340,407
49: 1,341,496
50: 1,341,341
57: 1,341,414
101— 7: 1,339,569
28: 1,339,363
35: 1,340,967
37: 1,339,050

101— 37: 1,340,966
1,341,449
44: 1,339,881
66: 1,340,221
110: 1,341,021
111: 1,340,122
118: 1,341,402
125: 1,339,857
178: 1,338,785
218: 1,339,316
232: 1,339,099
282: 1,339,526
288: 1,340,380
378: 1,340,355
394: 1,339,607
396: 1,340,072
404: 1,341,574
407: 1,340,194
409: 1,339,654
426: 1,341,186
102— 3: 1,340,288
16: 1,340,245
23: 1,341,053
29: 1,339,735
1,340,546
1,340,871
39: 1,338,802
1,340,536
103— 8: 1,339,224
10: 1,339,500
43: 1,340,472
44: 1,339,347
1,339,723
1,340,632
52: 1,340,596
1,340,597
54: 1,339,311
62: 1,341,194
63: 1,338,765
1,338,906
1,338,943
64: 1,338,829
65: 1,338,739
1,339,943
1,341,460
1,341,551
79: 1,340,165
80: 1,338,907
84: 1,339,137
1,339,621
104— 7: 1,338,681
20: 1,340,046
23: 1,338,663
32: 1,341,501
48: 1,341,097
51: 1,341,302
59: 1,339,299
92: 1,340,208
122: 1,340,962
134: 1,339,502
105— 48: 1,339,395
1,339,513
117: 1,340,762
119: 1,341,243
179: 1,341,249
264: 1,341,291
341: 1,339,076
362: 1,340,188
368: 1,339,890
1,340,438
375: 1,338,805
377: 1,340,667
420: 1,340,576
429: 1,338,882
449: 1,341,310
457: 1,338,728
1,339,379
106— 8: 1,341,489
1,341,490
1,341,540
10: 1,339,266
1,341,510
31: 1,340,181
37: 1,339,552
107— 4: 1,340,805
7: 1,339,087
8: 1,340,371
12: 1,339,637
17: 1,341,226
20: 1,341,137
54: 1,341,081
57: 1,339,616
63: 1,340,946
66: 1,341,084
108— 5.4: 1,340,685
7: 1,340,347
8: 1,340,348
10: 1,339,033
12: 1,340,949
20: 1,341,254
80: 1,340,545
109— 150: 1,339,741
110— 18: 1,339,729
32: 1,339,859
40: 1,339,531

110— 40: 1,340,725
44: 1,340,274
54: 1,338,897
1,338,898
1,338,922
1,338,924
1,338,925
1,338,956
1,339,000
74: 1,338,694
75: 1,341,594
87: 1,340,907
99: 1,339,615
108: 1,340,549
162: 1,340,865
111— 5: 1,340,836
16: 1,339,576
54: 1,340,654
229: 1,339,936
112— 2: 1,340,099
1,341,448
5: 1,338,910
20: 1,339,230
42: 1,341,065
45: 1,341,570
46: 1,339,633
62: 1,339,645
71: 1,339,732
86: 1,339,049
95: 1,341,160
122: 1,339,742
147: 1,340,782
178: 1,341,233
187: 1,339,243
210: 1,341,388
235: 1,339,121
248: 1,339,733
266: 1,340,460
113— 19: 1,340,842
38: 1,340,634
61: 1,338,716
112: 1,340,264
116: 1,339,104
1,340,449
114— 51: 1,338,816
53: 1,339,717
1,341,289
65: 1,338,815
66.5: 1,339,555
80: 1,338,712
124: 1,339,628
150: 1,339,550
206: 1,340,002
219: 1,339,663
235: 1,340,924
240: 1,338,706
1,339,372
1,341,578
115— 19: 1,341,375
24: 1,340,976
116— 1: 1,339,350
33: 1,339,873
34: 1,341,613
36: 1,339,071
40: 1,339,246
46: 1,339,589
1,340,082
51: 1,340,081
1,341,352
52: 1,339,938
1,340,292
1,340,363
1,340,988
54: 1,341,009
55: 1,339,685
114: 1,340,216
1,340,830
170: 1,338,722
1,338,861
126: 1,340,727
147: 1,339,158
162: 1,340,059
173: 1,339,849
118— 18: 1,339,803
119— 8: 1,338,942
45: 1,338,725
46: 1,339,543
52: 1,339,763
53: 1,340,096
1,340,869
73: 1,340,085
156: 1,340,071
98: 1,340,357
120— 8: 1,339,155
9: 1,341,509
17: 1,340,331
24: 1,338,669
28: 1,340,411
44: 1,340,926
45: 1,339,011
48: 1,340,277
84: 1,339,707
109.5: 1,340,895
121— 4: 1,340,505

121— 34: 1,339,565
35: 1,339,426
41: 1,339,671
1,339,939
55: 1,338,832
58: 1,341,328
67: 1,340,625
138: 1,338,732
163: 1,340,405
181: 1,339,629
1,339,630
99: 1,340,134
1,340,340
214: 1,339,215
1,340,666
287: 1,339,571
319: 1,340,090
333: 1,339,491
343.5: 1,339,719
350: 1,340,852
1,341,109
359: 1,341,048
123— 25: 1,338,993
30: 1,341,478
41: 1,341,368
42: 1,341,367
45: 1,339,760
47: 1,339,406
51: 1,339,187
54: 1,340,651
55: 1,339,423
56: 1,339,447
59: 1,340,229
1,340,481
66: 1,340,223
69: 1,341,255
74: 1,339,870
75: 1,339,512
81: 1,339,110
90: 1,339,421
1,339,839
1,340,211
1,340,717
1,341,134
96: 1,340,362
98: 1,340,993
108: 1,339,496
1,339,497
113: 1,339,517
117: 1,341,136
119: 1,339,035
1,339,465
1,341,172
122: 1,340,580
123: 1,340,956
124: 1,338,915
1,340,734
129: 1,340,444
131: 1,341,476
133: 1,341,141
141: 1,340,062
143: 1,339,014
148: 1,341,362
149: 1,338,758
1,338,990
1,339,635
1,340,282
1,340,607
169: R. 14,862
1,338,674
1,340,463
1,340,116
1,340,232
1,340,526
1,340,674
1,340,878
1,340,899
1,341,058
1,341,221
1,341,614
170: 1,338,722
1,338,938
171: 1,341,444
173: 1,340,647
174: 1,338,750
1,341,144
175: 1,340,389
180: 1,338,740
1,339,080
184— 1,338,811
185: 1,338,668
1,340,124
187.5: 1,339,881
1,339,884
1,340,281
188: 1,338,759
103: 1,341,227
195: 1,338,721
1,341,152
1,339,949
1,340,190
135— 10: 1,339,527
15: 1,339,846
19: 1,339,035
1,339,465
1,341,172
20: 1,340,589
124— 12: 1,339,949
125— 11: 1,339,452
42: 1,340,589
126— 15: 1,339,268
17: 1,340,986
1,340,617
38: 1,340,421

126— 39: 1,338,870
1,339,478
1,340,615
43: 1,339,059
44: 1,341,046
45: 1,340,367
58: 1,341,623
77: 1,338,855
1,339,039
77: 1,341,580
91: 1,339,944
99: 1,340,134
1,340,340
214: 1,339,215
1,340,666
287: 1,339,571
319: 1,340,090
333: 1,339,491
343.5: 1,339,719
350: 1,340,852
1,341,109
359: 1,341,048
127— 9: 1,339,115
128— 16: 1,339,711
48: 1,339,179
72: 1,338,735
73: 1,339,038
80: 1,340,700
94: 1,340,630
105: 1,341,333
107: 1,338,991
112: 1,339,946
123: 1,340,903
159: 1,339,070
164: 1,339,865
178: 1,340,433
198: 1,340,662
203: 1,338,905
1,340,448
239: 1,338,710
256: 1,339,510
286: 1,339,602
300: 1,339,691
1,339,692
321: 1,340,501
129— 8: 1,340,157
9: 1,340,757
11: 1,339,768
13: 1,341,062
15: 1,340,140
16: 1,340,034
1,340,035
1,340,140
1,340,384
16.5: 1,338,789
38: 1,339,249
39: 1,341,456
130— 4: 1,340,419
5: 1,339,737
16: 1,341,571
130: 1,340,709
177: 1,339,172
186: 1,341,037
242: 1,339,051
288: 1,339,064
131— 6: 1,339,373
1,339,374
1,339,375
132— 3: 1,339,632
1,340,379
1,340,948
1,341,158
137— 13: 1,340,352

137— 21: 1,338,846
1,339,083
53: 1,339,244
1,339,714
1,340,832
68: 1,339,734
75: 1,339,209
1,339,547
1,340,818
76: 1,340,061
77: 1,340,176
99: 1,340,167
101: 1,340,365
1,340,846
1,341,027
103: 1,339,074
104: 1,338,995
1,339,750
1,340,123
1,340,572
1,340,999
1,341,002
122: 1,340,439
1,341,101
139: 1,338,849
1,339,114
1,341,319
160: 1,340,158
139— 14: 1,341,244
1,341,245
16: 1,339,957
22: 1,341,394
27: 1,338,820
28: 1,339,999
46: 1,340,330
1,340,568
48: 1,339,295
51: 1,339,841
1,341,026
66: 1,341,417
85: 1,339,002
1,340,207
1,341,022
71: 1,339,753
79: 1,339,716
89: 1,339,572
94: 1,339,313
1,339,507
140— 26: 1,340,530
71: 1,338,886
1,338,887
119: 1,341,459
122: 1,340,029
141— 7: 1,338,949
1,340,768
9: 1,339,810
1,340,517
142— 27: 1,338,819
143— 40: 1,340,286
62: 1,338,977
89: 1,339,747
122: 1,340,042
135: 1,339,091
145: 1,340,128
144— 75: 1,340,987
91: 1,338,704
130: 1,340,709
177: 1,339,172
186: 1,341,037
242: 1,339,051
288: 1,339,064
145— 3: 1,339,357
33: 1,339,139
35: 1,340,742
61: 1,341,378
66: 1,341,180
68: 1,340,026
146— 5: 1,341,057
6: 1,339,364
1,339,367
11: 1,339,086
1,339,254
12: 1,341,452
14: 1,340,020
48: 1,339,063
148— 6: 1,341,109
13: 1,340,913
20: 1,338,736
24: 1,338,873
25: 1,338,841
1,341,101
39: 1,341,250
51: 1,338,921
66: 1,339,724
71: 1,339,093
80: 1,340,855
149— 5: 1,339,751
16: 1,339,201
20: 1,340,262
21: 1,339,093
1,340,600
150— 1: 1,341,157
8: 1,340,236
50: 1,339,851
52: 1,338,693
2: 1,341,604
3: 1,341,273
13: 1,339,120
15: 1,341,269
1,341,496
24: 1,340,602
29: 1,338,862

151— 29: 1,339,015
39: 1,341,400
152— 1: 1,340,556
2: 1,341,079
1,341,301
5: 1,339,472
1,339,575
1,339,576
8: 1,339,361
1,339,800
1,340,272
1,340,592
1,340,593
1,340,984
1,341,391
1,341,576
10: 1,339,516
1,340,199
11.5: 1,339,041
12: 1,339,113
13: 1,339,782
1,339,866
1,339,948
1,339,951
1,340,339
14: 1,338,772
1,338,842
1,338,843
1,339,854
1,339,963
1,339,978
1,339,979
1,340,182
1,340,183
1,341,331
16: 1,338,934
1,340,629
17: 1,340,179
18: 1,340,608
21: 1,338,677
1,339,168
1,339,651
1,340,094
1,340,244
1,340,671
1,340,894
1,340,901
1,340,977
1,341,000
1,341,118
1,341,124
22: 1,339,283
1,341,380
23: 1,338,807
1,340,485
1,341,345
28: 1,340,944
50: 1,339,676
53: 1,339,132
114: 1,338,851
1,340,484
153— 32: 1,340,320
56: 1,338,946
65: 1,338,737
1,340,296
1,340,516
71: 1,339,023
154— 1: 1,340,883
2: 1,339,696
1,341,612
5: 1,340,703
8: 1,339,191
9: 1,339,451
14: 1,340,702
1,340,704
1,341,121
1,341,247
16: 1,339,992
28: 1,340,812
40: 1,339,327
45: 1,340,332
1,341,396
155— 5: 1,339,611
6: 1,340,467
9: 1,340,754
13: 1,339,445
14: 1,341,050
20: 1,339,608
25: 1,341,192
1,341,555
31: 1,339,891
41: 1,339,669
58: 1,339,296
1,340,904
75: 1,341,303
90: 1,339,262
130: 1,341,596
143: 1,341,225
180: 1,339,537
181: 1,338,806
184: 1,339,281
1,340,475
1,340,753
197: 1,339,068
156— 19: 1,339,353

156— 19: 1,341,051
21: 1,339,247
23: 1,340,684
1,341,535
1,341,562
24: 1,341,025
36: 1,341,530
38: 1,339,464
1,341,188
39: 1,340,103
1,340,797
46: 1,340,066
157— 1: 1,339,504
1,341,104
158— 3: 1,340,202
4: 1,341,294
1,341,524
7: 1,341,258
13: 1,338,853
25: 1,341,497
27.4: 1,340,690
28: 1,340,012
31: 1,340,383
33: 1,338,840
1,341,127
1,341,514
36: 1,338,965
1,339,441
1,340,983
1,341,515
46: 1,341,393
53: 1,340,038
60: 1,340,803
74: 1,338,679
1,339,580
1,339,709
75: 1,339,579
76: 1,339,358
87: 1,339,207
94: 1,339,108
1,341,494
99: 1,341,266
106: 1,339,618
109: 1,340,902
113: 1,340,226
115: 1,339,102
117: 1,341,089
160— 1: 1,339,402
161— 1: 1,338,761
1,339,634
1,340,358
8: 1,339,468
15: 1,340,324
26: 1,339,117
162— 1: 1,341,010
164— 17: 1,339,990
1,340,402
19: 1,341,589
21: 1,340,852
28: 1,340,884
29: 1,340,006
1,340,235
49: 1,340,157
1,340,706
1,341,450
58: 1,340,018
59: 1,341,312
61: 1,339,807
1,340,225
64: 1,339,878
78: 1,341,445
82: 1,341,067
124: 1,338,969
166— 1: 1,339,955
8: 1,339,898
19: 1,340,295
167— 3: 1,339,783
1,340,661
168— 19: 1,340,764
26: 1,338,986
169— 2: 1,338,778
23: 1,339,567
32: 1,338,828
1,340,601
42: 1,339,829
170— 33: 1,341,045
103: 1,338,890
117: 1,339,012
159: 1,339,886
171: 1,338,874
171— 97: 1,339,903
1,339,923
119: 1,338,718
123: 1,339,910
1,341,340
223: 1,340,004
1,340,005
1,341,492
229: 1,339,930
1,339,996
1,340,678
317: 1,339,897
322: 1,339,988
172— 15: 1,340,908
152: 1,340,240

172— 179: R. 14,861
1,339,817
1,339,929
1,339,945
1,340,679
239: 1,339,312
173— 264: 1,340,839
269: 1,339,694
276: 1,339,928
288: 1,339,466
324: 1,339,987
328: 1,341,339
335: 1,341,054
343: 1,341,468
359: 1,340,856
367: 1,340,268
174— 177: 1,338,812
175— 21: 1,340,027
30: 1,340,657
116: 1,341,619
183: 1,339,610
1,339,804
1,340,197
1,340,936
1,341,348
294: 1,339,192
1,339,394
1,339,456
1,339,981
1,341,486
1,341,488
318: 1,339,907
321: 1,339,902
336: 1,340,698
360: 1,339,100
361: 1,338,884
364: 1,340,502
367: 1,339,553
375: 1,340,918
176— 10: 1,340,499
16: 1,341,581
31: 1,339,351
32: 1,339,333
34: 1,340,054
40: 1,339,998
45: 1,339,914
119: 1,339,111
177— 7: 1,339,559
327: 1,340,343
1,340,537
350: 1,339,566
178— 33: 1,339,824
46: 1,339,703
88: 1,339,549
1,339,550
1,339,551
179— 4: 1,340,942
6.3: 1,340,260
16: 1,339,575
1,340,935
17: R. 14,893
18: 1,339,175
1,340,933
1,340,934
1,340,997
27: 1,339,010
1,340,340
1,340,979
1,340,982
1,341,473
27.5: 1,339,001
82: 1,341,232
100: 1,339,814
1,341,007
1,341,105
101: 1,338,888
103: 1,340,955
109: 1,339,518
114: 1,340,471
147: 1,341,358
167: 1,341,280
182: 1,340,807
180— 1: 1,340,024
9: 1,338,777
1,340,789
9.1: 1,340,514
11: 1,341,379
12: 1,338,707
13: 1,338,837
14: 1,338,910
1,340,112
17: 1,338,754
1,338,835
1,340,306
1,341,162
25: 1,341,537
27: 1,338,680
32: 1,341,181
1,339,387
41: 1,340,587
43: 1,340,759
50: 1,339,124
52: 1,340,169
53: 1,340,833
67: 1,339,475

180— 69: 1,339,269
1,339,822
70: 1,339,688
1,340,534
1,340,932
72: 1,341,306
73: 1,339,271
81: 1,339,125
83: 1,340,305
89: 1,339,325
90: 1,339,568
181— 24: 1,340,299
1,340,300
27: 1,340,531
31: 1,341,154
183— 7: 1,339,471
1,339,480
45: 1,339,726
55: 1,341,129
62: 1,339,495
1,339,498
77: 1,339,757
1,340,058
184— 1: 1,339,538
1,339,546
1,339,872
4: 1,341,080
6: 1,339,530
1,339,798
48: 1,341,411
54: 1,339,540
69: 1,339,619
70: 1,378,914
88: 1,341,190
103: 1,340,687
185— 30: 1,340,013
37: 1,339,934
187— 11: 1,340,458
35: R. 14,853
61: 1,338,867
1,340,664
72: R. 14,864
83: 1,341,112
188— 1: 1,339,679
16: 1,339,524
18: 1,339,895
22: 1,340,168
43: 1,340,598
119: 1,340,743
130: 1,339,780
152: 1,341,531
199: 1,341,321
204: 1,341,617
213: 1,339,413
1,339,414
1,339,415
1,339,416
1,340,008
1,340,009
1,340,010
219: 1,340,007
189— 2: 1,340,561
21: 1,341,335
28: 1,341,318
34: 1,339,253
43: 1,340,243
46: 1,339,205
62: 1,339,973
71: 1,340,312
74: 1,340,311
190— 11: 1,339,028
13: 1,339,533
1,339,534
30: 1,341,125
33: 1,339,653
43: 1,341,404
44: 1,341,099
191— 82: 1,341,284
95: 1,339,221
192— 7: 1,338,788
1,339,801
10: 1,339,047
1,340,885
11: 1,338,891
1,340,559
193— 1: 1,339,904
4: 1,339,646
8: 1,339,089
10: 1,339,977
1,340,164
13: 1,339,660
14: 1,338,727
1,339,206
1,339,627
19: 1,340,574
20: 1,340,253
21: 1,340,606
24: 1,339,486
26: 1,339,834
29: 1,339,338
31: R. 14,854
R. 14,855
1,338,975
1,338,976
48: 1 41,238

193— 56: 1,340,507
194— 9: 1,341,534
59: 1,341,433
93: 1,340,174
195— 1: 1,338,803
196— 3: 1,340,793
14: 1,340,532
19: 1,341,517
25: 1,340,427
26: 1,339,727
1,340,889
27: 1,341,437
197— 1: 1,341,131
5: 1,339,078
1,340,508
1,340,925
1,341,028
6.4: 1,341,076
6.5: 1,340,428
1,340,429
9: 1,339,346
10: 1,339,369
22: 1,340,864
1,341,424
86: 1,341,350
114: 1,340,900
135: 1,340,488
140: 1,340,542
151: 1,338,699
186: 1,339,806
199— 47: 1,340,613
58: 1,340,831
200— 3: 1,338,825
8: 1,339,911
11: 1,339,754
17: 1,339,906
18: 1,341,143
24: 1,338,989
1,340,121
27: 1,340,857
30: 1,338,971
31: 1,341,020
37: 1,340,039
41: 1,339,236
43: 1,339,302
1,340,230
44: 1,339,008
50: 1,340,930
52: 1,339,844
1,339,845
1,340,344
59: 1,341,372
67: 1,339,306
68: 1,339,976
72: 1,339,820
1,340,000
73: 1,339,171
1,341,622
82: 1,338,896
83: 1,340,086
84: 1,339,239
86: 1,340,552
93: 1,339,778
94: 1,339,900
1,339,922
104: 1,340,403
109: 1,340,564
117: 1,340,080
131: 1,339,965
132: 1,341,401
112: 1,340,729
1,340,919
146: 1,340,917
159: 1,340,139
163: 1,340,788
169: 1,339,506
172: 1,341,611
202— 9: 1,341,257
203— 5: 1,339,470
6: 1,338,667
1,339,022
204— 15: 1,340,826
29: 1,338,690
1,339,061
1,339,835
1,339,853
1,340,222
1,340,269
1,340,636
1,340,637
1,341,469
31: 1,339,225
58: 1,341,516
63: 1,340,951
64: 1,338,734
1,338,881
1,339,344
1,339,393
1,339,428
1,340,155
1,340,203
206— 1: 1,340,660
6: 1,339,330
15.1: 1,341,329
28: 1,340,980

206— 33: 1,338,692
1,341,074
1,341,139
1,341,140
38: 1,339,899
1,341,295
41: 1,339,577
44: 1,340,744
52: R. 14,860
63: 1,339,908
208— 32: 1,339,433
38: 1,339,624
57: 1,340,386
94: 1,339,554
1,340,508
165: 1,340,282
210— 3: 1,341,208
8: 1,341,561
16: 1,339,195
1,340,599
18: 1,339,980
54: 1,339,684
62: 1,339,769
73: 1,340,682
127: 1,339,045
156: 1,339,037
1,341,119
199: 1,338,999
211— 2: 1,340,335
7: 1,339,140
8: 1,339,053
1,339,067
1,340,748
1,341,606
11: 1,339,652
13: 1,340,446
16: 1,339,291
1,340,364
1,340,565
1,341,412
1,341,512
24: 1,339,194
1,340,859
29: 1,339,885
32: 1,340,132
37: 1,339,255
1,339,823
41: 1,341,389
44: 1,339,503
212— 4: 1,341,390
44: 1,339,263
54: 1,338,726
1,339,072
65: 1,340,893
213— 5: 1,339,487
10: 1,339,030
1,340,538
39: 1,339,743
42: 1,339,020
1,339,714
1,339,940
1,340,285
1,341,149
1,341,455
1,341,556
45: 1,339,016
64: 1,338,893
1,341,150
67: 1,340,105
1,340,504
1,340,521
1,341,170
214— 1: 1,340,594
1,340,595
1,340,648
3: 1,339,082
18: 1,339,081
31: 1,340,156
38: 1,341,197
43: 1,340,819
49: 1,338,798
1,340,683
1,341,499
75: 1,339,290
83: 1,340,378
1,341,239
105: 1,340,345
130: 1,339,138
137: 1,340,498
215— 9: 1,338,847
1,339,370
1,341,177
10: 1,339,066
13: 1,341,382
14: 1,340,783
34: 1,341,075
51: 1,340,237
62: 1,340,373
87: 1,339,442
216— 2: 1,338,978
9: 1,339,764
54: 1,338,793
217— 3: 1,339,328
1,340,968
12: 1,339,021

217— 12: 1,340,119
1,340,489
22: 1,340,881
44: 1,339,749
1,341,060
47: 1,340,815
56: 1,340,870
60: 1,341,518
66: 1,340,350
76: 1,340,023
89: 1,340,075
1,341,493
95: 1,339,701
1,339,862
99: 1,340,810
218— 12: 1,339,324
27: 1,341,203
219— 3: 1,339,970
4: 1,338,762
1,341,626
8: 1,339,515
1,340,270
1,340,644
1,341,293
1,341,558
10: 1,339,417
1,339,906
1,339,967
1,339,968
1,339,969
1,339,971
1,339,972
1,340,170
1,340,412
1,341,337
15: 1,340,056
27: 1,340,736
32: 1,340,716
34: 1,339,935
35: 1,338,952
39: 1,338,997
1,340,668
49: 1,338,908
57: 1,340,241
63: 1,340,813
64: 1,338,717
71: 1,340,795
220— 4: 1,340,248
5: 1,341,549
11: 1,341,403
24: 1,339,340
39: 1,339,485
40: 1,341,592
43: 1,340,413
1,341,505
46: 1,338,688
55: 1,341,588
57: 1,339,905
65: 1,341,507
73: 1,341,304
86: 1,339,562
91: 1,339,584
221— 11: 1,339,245
23: 1,340,242
24: 1,339,578
1,339,982
32: 1,339,765
43: 1,340,954
54: 1,340,406
61: 1,340,217
67: 1,338,878
72: 1,340,534
78: 1,339,237
1,339,916
1,341,148
79: 1,338,743
1,340,043
1,340,726
80: 1,338,814
83: 1,339,626
85: 1,340,078
99: 1,341,189
100: 1,339,522
1,341,263
103: 1,340,590
104: 1,341,174
106: 1,341,297
114: 1,339,635
122: 1,339,557
223— 18: 1,340,950
31: 1,339,305
37: 1,341,357
55: 1,340,665
1,341,409
60: 1,340,224
221— 5: 1,340,076
1,340,077
1,340,957
23: 1,338,776
1,338,794
1,338,795
1,338,797
1,339,794
1,339,795

224— 23: 1,340,141
1,340,142
29: 1,340,431
1,340,799
225— 2: 1,340,769
226— 2: 1,339,595
37: 1,341,563
71: 1,341,487
72: 1,340,200
1,341,277
84: 1,341,163
97: 1,340,185
125: 1,341,447
127: 1,340,814
227— 25: 1,340,146
228— 40: 1,340,627
55: 1,340,688
229— 6: 1,338,744
14: 1,339,430
16: 1,339,334
40: 1,339,339
41: 1,338,664
45: 1,341,429
68: 1,340,553
72: 1,339,392
76: 1,340,555
80: 1,340,554
92.1: 1,340,114
230— 1: 1,339,131
5: 1,339,563
7: 1,338,810
1,339,169
27: 1,338,711
30: 1,338,839
33: 1,340,210
232— 4: 1,340,377
42: 1,341,607
233— 32: 1,339,211
234— 1 5: 1,339,381
11: 1,338,715
28: 1,341,014
40: 1,340,578
235— 2: 1,338,903
1,340,827
3: 1,338,876
17: 1,340,231
25: 1,339,272
58: 1,341,049
59: 1,339,993
60: 1,339,542
1,339,704
1,339,706
82: 1,340,374
92: 1,340,435
97: 1,340,493
98: 1,339,744
105: 1,340,036
236— 14: 1,338,900
1,338,901
1,338,902
1,338,923
1,338,926
1,338,927
1,338,928
1,339,055
15: 1,338,899
1,339,964
25: 1,338,729
33: 1,339,368
40: 1,339,057
49: 1,338,916
1,340,939
48: 1,340,513
56: 1,340,958
64: 1,341,016
85: 1,340,106
237— 3: 1,339,264
9: 1,338,961
12.3: 1,340,314
17: 1,339,813
50: 1,340,718
238— 5: 1,339,356
7: 1,339,046
12: 1,340,992
1,341,354
14: 1,339,612
30: 1,339,301
1,341,587
65: 1,341,090
134: 1,340,454
178: 1,341,446
256: 1,341,573

238— 186: 1,339,345
321: 1,339,123
322: 1,340,135
330: 1,340,478
331: 1,339,718
343: 1,341,609
240— 1: 1,339,085
2: 1,341,267
3: 1,339,304
7: 1,346,686
8.4: 1,341,559
8.5: 1,340,550
1,341,471
15: 1,338,954
29: 1,338,769
32: 1,338,911
41: 1,339,695
1,340,163
44: 1,341,472
48.4: 1,338,675
1,338,824
1,339,604
1,341,128
61: 1,339,352
1,339,954
1,340,771
1,341,004
62: 1,338,787
1,341,593
78: 1,339,985
1,340,261
92: 1,340,443
111: 1,338,958
241— 5: 1,338,858
6: 1,340,455
8: 1,338,859
13: 1,341,568
16: 1,341,406
19: 1,338,850
23: 1,341,033
242— 55: 1,340,981
58: 1,339,460
61: 1,340,178
68: 1,341,484
75: 1,340,710
84.1: 1,341,519
84.8: 1,340,712
109: 1,340,195
111: 1,341,003
117: 1,340,297
130: 1,340,978
65: 1,340,893
147: 1,340,064
159: 1,340,254
1,340,837
243— 10: 1,339,594
244— 1: 1,338,724
1,339,181
1,339,188
1,339,432
2: 1,340,325
1,340,483
1,340,786
1,341,202
3: 1,339,570
4: 1,341,248
6: 1,340,053
1,340,309
12: 1,339,336
1,341,029
1,341,624
14: 1,340,960
18: 1,340,914
21: 1,339,227
1,339,828
21: 1,340,259
1,340,423
25: 1,340,214
29: 1,339,332
1,340,450
1,341,567
31: 1,338,836
1,340,154
1,340,626
1,340,707
1,341,399
245— 2: 1,339,541
5: 1,339,802
246— 49: 1,339,918
1,340,500
182: 1,339,677

246— 186: 1,339,136
223: 1,340,970
252: 1,341,347
273: 1,341,320
276: 1,338,786
302: 1,341,179
378: 1,340,750
393: 1,341,246
441: 1,341,330
445: 1,341,554
454: 1,340,582
456: 1,339,597
1,339,598
463: 1,340,205
476: 1,341,161
247— 20: 1,339,847
248— 1: 1,340,108
11: 1,340,974
19: 1,340,426
1,341,198
20: 1,339,018
1,339,163
1,339,288
1,339,449
1,339,792
22: 1,339,843
30: 1,338,766
31: 1,341,113
34: 1,339,391
37: 1,339,833
41: 1,338,781
182: 1,340,068
249— 52: 1,340,822
58: 1,339,539
250— 6: 1,340,101
1,341,211
17: 1,339,772
19: 1,339,191
20: 1,339,927
27: 1,338,889
1,340,575
1,341,006
32: 1,338,756
34: 1,340,588
36: 1,340,193
37: 1,340,963
39: 1,338,984
41: 1,341,336
251— 5: 1,340,828
6: 1,338,912
18: 1,338,705
20: 1,340,107
68: 1,340,591
77: 1,339,665
85: 1,340,790
91: 1,341,260
99: 1,339,882
103: 1,341,146
108: 1,339,284
119: 1,341,145
125: 1,339,128
127: 1,339,101
129: 1,341,544
134: 1,340,060
155: 1,340,652
156: 1,338,994
162: 1,338,838
252: 1,340,535
253— 17: 1,339,183
69: 1,341,273
94: 1,338,708
189: 1,340,091
254— 2: 1,339,827
8: 1,340,150
26: 1,340,401
30: 1,339,024
1,340,676
37: 1,340,523
71: 1,339,407
78: 1,341,241
84: 1,339,459
88: 1,341,620
89: 1,339,186
1,340,749
95: 1,338,682
106: 1,339,581
1,339,582
1,339,583
1,339,613
108: 1,341,305

254— 111: 1,339,377
1,339,926
145: 1,339,666
1,341,042
151: 1,341,242
166: 1,340,349
1,341,176
172: R. 14,858
190: 1,339,931
194: 1,340,989
255— 19: 1,338,948
23: 1,341,410
33: 1,340,420
45: 1,340,468
73: 1,340,927
1,339,649
256— 31: 1,341,264
257— 16: 1,339,122
51: 1,340,267
88: 1,340,177
104: 1,341,287
125: 1,339,752
1,340,258
129: 1,340,774
1,341,165
130: 1,338,753
132: 1,341,419
136: 1,341,126
211: 1,341,605
236: 1,340,153
240: 1,338,848
243: 1,340,266
263: 1,339,385
258— 1: 1,338,970
8: 1,340,840
259— 8: 1,340,464
50: 1,341,095
72: 1,339,818
91: 1,340,466
1,340,491
96: 1,338,996
108: 1,341,283
109: 1,339,656
126: 1,340,916
131: 1,340,849
261— 12: 1,339,403
40: 1,338,960
41: 1,339,214
1,340,720
48: 1,339,218
66: 1,339,095
83: 1,339,303
108: 1,339,105
111: 1,339,112
115: 1,340,382
121: 1,339,609
262— 3: 1,339,036
12: 1,340,731
263— 1: 1,339,190
5: 1,340,770
6: 1,339,564
15: 1,339,855
16: 1,341,299
20: 1,340,104
23: 1,339,252
33: 1,340,690
49: 1,340,675
9: 1,341,066
61: 1,340,280
62: 1,339,326
1,339,759
1,341,123
68: 1,339,440
71: 1,340,318
266— 4: 1,339,424
5: 1,339,034
267— 1: 1,340,581
15: 1,340,434
1,341,274
16: 1,339,779
19: 1,339,484
28: 1,338,673
1,338,854
41: R. 14,856
64: 1,340,233
65: 1,341,407
73: 1,340,184
197: 1,339,739
268— 4: 1,339,879
9: 1,338,755
18: 1,338,671
270— 21: 1,341,092
271— 53: 1,340,722
1,340,723
1,339,156
274— 5: 1,338,719

274— 10: 1,341,011
15: 1,339,199
1,340,524
1,340,525
23: 1,341,511
24: 1,341,522
27: 1,338,950
1,339,404
1,339,809
1,340,854
34: 1,340,298
1,340,436
35: 1,339,337
1,339,558
1,339,648
1,339,649
37: 1,341,625
1,341,085
19: 1,339,667
1,339,915
276— 1: 1,338,964
277— 20: 1,339,997
66: 1,340,228
279— 62: 1,338,775
66: 1,341,085
103: 1,340,845
119: 1,341,015
280— 5: 1,341,214
1,341,215
1,341,216
12: 1,340,733
1,341,087
33.2: 1,339,353
33.7: 1,339,048
281— 1: 1,339,937
1,340,713
25: 1,341,575
283— 1: 1,339,693
2: 1,341,018
12: 1,339,331
23: 1,338,770
1,341,346
34: 1,339,942
45: 1,340,100
66: 1,339,995
284— 6: 1,339,042
18: 1,339,555
285— 24: 1,340,739
25: 1,338,972
26: 1,341,398
47: 1,340,118
54: 1,339,740
58: 1,340,820
75: 1,339,620
107: 1,339,858
130: 1,339,636
143: 1,339,141
146: 1,340,289
150: 1,340,785
167: 1,341,086
174: 1,341,536
178: 1,341,135
197: 1,339,739
286— 7: 1,338,955
18: 1,338,671
1,339,762
1,341,265
1,340,130
14: 1,339,156

287— 17: 1,340,273
35: 1,339,638
52: 1,339,852
118: 1,338,746
288— 1: 1,339,599
290— 19: 1,340,249
31: 1,338,857
35: 1,338,987
1,341,327
46: 1,339,258
291— 11: 1,340,728
16: 1,340,016
43: 1,341,236
292— 5: 1,340,876
15: 1,339,178
39: 1,338,689
45: 1,341,155
128: 1,339,781
169: 1,339,320
175: 1,339,670
136: 1,341,583
189: 1,341,569
196: 1,340,462
221: 1,339,492
241: 1,339,362
247: 1,339,174
285: 1,340,605
296: 1,339,856
305: 1,341,173
335: 1,338,713
1,340,398
336: 1,341,234
342: 1,338,792
293— 37: 1,340,835
55: 1,339,167
1,339,756
1,340,867
1,341,572
294— 24: 1,339,444
33: 1,341,371
1,341,502
66: 1,340,313
78: 1,341,427
91: 1,341,166
114: 1,340,083
295— 36: 1,341,432
296— 21: 1,340,853
30: 1,339,521
62: 1,340,761
84: 1,339,889
1,340,025
1,341,464
93: 1,341,413
96: 1,339,770
110: 1,340,279
117: 1,340,518
118: 1,340,307
145: 1,339,170
1,339,838
1,340,912
1,341,082
298— 2: 1,341,013
19: 1,341,142
22: 1,339,079
23: 1,340,798
38: 1,341,381
299— 12: 1,339,159
1,339,322
18: 1,339,349
20: 1,341,525
38: 1,340,806
43: 1,339,382
73: 1,339,005
78: 1,339,785
98: 1,340,376
115: 1,340,136
303— 15: 1,339,681
1,339,720
18: 1,339,680
20: 1,339,962
53: 1,339,678
63: 1,340,861
304— 2: 1,339,661
16: 1,340,191
20: 1,339,458
1,339,482
1,340,492
1,341,597
305— 36: 1,339,025
10: 1,341,428

OFFICIAL GAZETTE

OF THE

BANGOR PUBLIC
DEC 22 1920
LIBRARY

UNITED STATES PATENT OFFICE.

VOLUME CCLXXV.

JUNE,

1920.

WASHINGTON
GOVERNMENT PRINTING OFFICE
1920

ERRATA.

1,342,266, page 128, first claim, line 5, strike out the word "near."

1,342,313, page 137, in heading, assignment, name of assignee, for "Atlanta Lithographic and Printing Company" read *Atlantic Lithographic and Printing Company.*

1,342,645, page 254, in the heading, name of patentee, for "Charles William Pen Dell" read *Charles William PenDell.*

1,343,761, page 538, in heading, strike out assignment, and insert *assignor, by direct and mesne assignments, of one-sixth to Calvin S. Carruthers, one-sixth to Roy C. Carruthers, and one-sixth to Myrtle Carruthers, all of Salina, Kansas.*

1,345,002, page 909, claim, line 5, for the word "only" read *body.*

132,324, (Registered Trade-Marks,) page 816, particular description of goods, for "Heat-Insulating Semirefractory Filling and Structural Material in Powder, Granular, Cement, Brick, or Block Form" read *A Heat-Insulating Semi-Refractory, Filling, and a Structural Material in Powder, Granular, Cement, Brick or Block Form.*

132,325, (Registered Trade-Marks,) page 816, particular description of goods, for "Heat-Insulating Semirefractory Material and a Structural Material in Brick or Block Form" read *A Heat-Insulating Semi-Refractory, and a Structural Material, in Brick or Block Form.*

132,326, (Registered Trade-Marks,) page 816, particular description of goods, for "Material Used for a Heat-Insulating Semirefractory Filling and a Structural Material in Granular Form" read *A Heat-Insulating Semi-Refractory, Filling, and a Structural Material, in Granular Form.*

ADDRESS
NOT
YET
IN
NUMBER

CONTENTS.

	Page.
PATENTS AND DESIGNS GRANTED, June 1, 8, 15, 22, 29	3, 209, 427, 629, 835
TRADE-MARKS PUBLISHED AND REGISTERED, June 1, 8, 15, 22, 29	167, 373, 575, 788, 983
LABELS AND PRINTS REGISTERED, June 1, 8, 15, 22, 29	418, 826, 1022
DECISIONS OF THE COMMISSIONER OF PATENTS, June 1, 8, 15, 22, 29	201, 419, 623, 827, 1023
INDEX TO THE DECISIONS OF THE COMMISSIONER OF PATENTS	1029
ALPHABETICAL INDEX OF PATENTEES AND INVENTIONS	i

ANNOUNCEMENTS.

	Page.
ADVERSE DECISIONS IN INTERFERENCE—	
Bullard, 1,144,997	627
Dalton, 1,121,716	205
Dalton and Magnus, 1,049,057	205
Hickman, 1,235,475	205
Jaeger, 1,307,444	627
Landsiedel, 1,121,734 and 1,131,734	207
Lane, Hendry, and Kirkaldie, 1,238,305	205
Lundell, 1,271,337	205
Magnus, 1,137,508	207
Martin, 1,194,339	205
McLaughlin and Babcock, 1,281,620	627
Sparre, 1,301,187	205
Spaulding, 1,320,504	627
APPLICATIONS—	205
Condition of pending	2, 208, 426, 628, 834
Execution by agent discontinued	1, 207
ASSISTANT EXAMINERS—	
Vacancies existing	1
CLASSIFICATION OF INVENTIONS—	
Changes in—*Order 2,572*	205
Order 2,576	830
Order 2,577	832
Order 2,580	832
Order 2,584	833
DISCLAIMERS—	
Berg, Joseph	627
Nessler, Charles	627
DRAWINGS—	
Correction of—Rule 72	207
Instructions relative to preparing and mailing	627
INTERFERENCE NOTICES—	
American Standard Composition Co	829, 1028
Bedford, George	207, 425, 829
Brown Paint Co., Charles H., The	829, 1028
Carbon Black Company, The	829, 1028
Consolidated Rubber Works	207, 425, 829
Goldberger, Leo	425, 829, 1028
Kespohl & Co., H. A	205
Miller & Miller	425, 829, 1028
Phelps Co., The	425, 829, 1028
Willits, Robert W	204
PATENTS—	
List of adjudicated	833
RULES OF PRACTICE OF THE UNITED STATES PATENT OFFICE—	
Amendment of Rule 139	1

ER.

Patents Nos. 1,341,627 to 1,342,410.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 275—No. 1. TUESDAY, JUNE 1, 1920. Price—$5 per year.
[PUBLISHED JUNE 2, 1920.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JUNE 1, 1920	1
NOTICE—APPLICATION EXECUTED BY AGENT OF INVENTOR	1
AMENDMENT OF RULES OF PRACTICE	1
ASSISTANT EXAMINERS WANTED	1
APPLICATIONS UNDER EXAMINATION	2
PATENTS GRANTED	3
REISSUES	156
DESIGNS	157
TRADE-MARKS—REGISTRATION APPLIED FOR	167
TRADE-MARK REGISTRATIONS GRANTED	199
COMMISSIONER'S DECISIONS—	
Ex parte Barber	201
DECISIONS OF THE U. S. COURTS—	
Rohm *et al v.* Martin Dennis Co	201
Meccano Limited v. John Wanamaker, New York	203
INTERFERENCE NOTICES	204
ADVERSE DECISIONS IN INTERFERENCE	205
CHANGES IN CLASSIFICATION	205

Issue of June 1, 1920.

Patents	784—No.	1,341,627 to No.	1,342,410, inclusive.
Designs	59—No.	55,354 to No.	55,403, inclusive.
Trade-Marks	18—No.	131,930 to No.	131,947, inclusive.
Reissues	7—No.	14,868 to No.	14,874, inclusive.
Total	859		

NOTICE.

Application Executed by Agent of Inventor.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 13, 1920.

As appears from the report of the Commissioner of Patents for the year 1914, (223 O. G., 923–1006,) there was inaugurated on September 15, 1914, on account of the conditions in Europe arising out of the war, the practice of accepting applications executed by an agent of the inventor as a compliance with the provisions of section 4887, Revised Statutes, papers executed by the inventor being required as a prerequisite to the issuance of the patent.

Notice is hereby given that after June 15, 1920, this practice will be discontinued. Thereafter no application will be accepted as complete and forwarded for examination unless executed by the inventor or his legal representative, as defined in section 4896, Revised Statutes.

J. T. NEWTON,
Commissioner.

Amendment of Rules of Practice.

(ORDER No. 2,574.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 21, 1920.

Under the provisions of section 483, Revised Statutes, and with the approval of the Secretary of the Interior, Rule 139 of the Rules of Practice of the United States Patent Office is amended as follows:

By inserting after the word "appeal" in line 4 of the fourth paragraph of that rule the words *and whenever in his opinion substantial justice shall require it,* and by omitting from line 6 of that paragraph the words "he will," so that the rule as amended will read as follows:

139. The Examiners-in-Chief in their decision shall affirm or reverse the decision of the Primary Examiner only on the points on which appeal shall have been taken. (See Rule 133.) Should they discover any apparent grounds not involved in the appeal for granting or refusing Letters Patent in the form claimed, or any other form, they shall annex to their decision a statement to that effect with such recommendation as they shall deem proper.

Should the Examiners-in-Chief recommend the refusal of Letters Patent in the form claimed, their recommendation will stand as a rejection and will reopen the case for amendment or showing of fact, or both, before the Primary Examiner, responsive to that rejection. The recommendation of the Examiners-in-Chief is binding upon the Primary Examiner unless an amendment or showing of facts not previously of record be made which, in the opinion of the Primary Examiner, overcomes the recommendation. The applicant may waive the right to prosecution before the Primary Examiner and have the case reconsidered by the Examiners-in-Chief upon the same record, and from an adverse decision of the Examiners-in-Chief on reconsideration, appeal will lie to the Commissioner, as in other cases. The applicant may also waive reconsideration by the Examiners-in-Chief and appeal directly to the Commissioner.

Should the Examiners-in-Chief recommend the granting of Letters Patent in an amended form, the applicant shall have the right to amend in conformity with such recommendation, which shall be binding upon the Primary Examiner in the absence of new references or grounds for rejection.

If the Commissioner, in reviewing the decision of the Examiners-in-Chief, discovers any apparent grounds for refusing Letters Patent not involved in the appeal, he will, before or after decision on the appeal, and whenever in his opinion substantial justice shall require it, give reasonable notice thereof to the applicant, and if any amendment or action based thereon be proposed, remand the case to the Primary Examiner for consideration.

J. T. NEWTON,
Commissioner.

ASSISTANT EXAMINERS WANTED.

A number of vacancies exist in the grade of Fourth Assistant Examiner in the Patent Office, which it is desired to fill with persons having a good education and training along scientific lines, especially in the subjects mathematics, French or German, chemistry, physics, mechanical drawing, and engineering.

Civil-service examinations for the position are announced for June 9–11.

The salary is $1,500, plus a bonus of $240 per year to permanent appointees. Promotions to higher grades follow as the assistant's ability and knowledge of the examining work is demonstrated.

Announcements of the stated entrance examinations, giving the scope of the same, and application papers therefor may be obtained by addressing the Civil Service Commission, Washington, D. C.

2180

APPLICATIONS UNDER EXAMINATION.

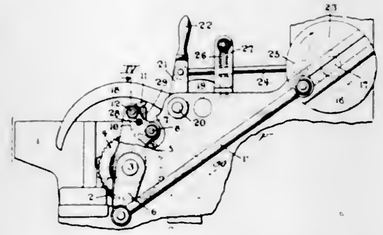
Condition at Close of Business May 22, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 3	Feb. 12	387
128	2 Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Oct. 4	Dec. 18	926
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 25	Jan. 5	497
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 13	Mar. 2	1,167
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 10	Jan. 31	327
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 13	Mar. 25	477
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 30	Mar. 17	794
131	8. Belts; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 19	Apr 1	354
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 12	Jan. 2	476
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Dec. 10	Mar. 15	961
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Jan. 26	Feb. 11	695
222	12. Machine Elements	Oct. 2	Mar. 15	1,151
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 10	Mar. 22	1,094
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 18	Feb. 3	545
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 30	Mar. 2	1,063
111	16. Radiant Energy; Telegraphy; Telephony	Oct. 6	Nov. 12	861
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 9	Mar. 16	236
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 23	Dec. 1	905
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 2	Dec. 11	575
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 18	Feb. 4	697
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 3	Feb. 20	388
249	22. Aeronautics; Firearms; Ordnance	Mar. 16	Feb. 19	232
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 22	Feb. 20	585
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 20	Feb. 17	525
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 5	Feb. 18	211
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 4	Oct 14	714
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 10	Feb. 24	540
225	28. Internal-Combustion Engines	Jan. 12	Mar. 17	596
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Sept. 15	Apr. 14	638
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Dec. 10	Apr. 12	988
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 4	Dec. 29	978
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 13	Jan. 15	1,154
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 29	Mar. 12	483
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 4	Apr. 20	122
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 14	Apr. 26	429
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 24	Jan. 19	1,145
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 31	Jan. 8	1,266
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 16	Mar. 17	561
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 6	Oct. 27	1,023
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Nov. 17	Feb. 25	697
125	41. Resilient Tires and Wheels	Oct. 27	Feb. 24	783
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Nov. 18	Jan. 7	986
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 12	Feb. 16	803
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Jan. 9	Mar. 8	286
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Nov. 29	Jan. 8	733
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Oct. 21	Dec. 20	755
	Oldest new case, Sept. 2, oldest amended, Oct. 14. Total number of applications awaiting action			31,809
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Jan. 26	Feb. 1	2,539
	Designs	Nov. 14	Feb. 4	892
	Labels and Prints	Jan. 2	Feb. 2	979

PATENTS

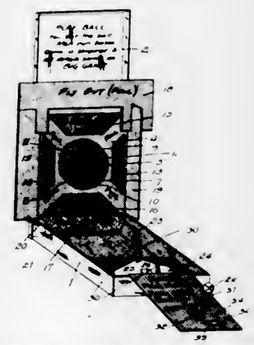
GRANTED JUNE 1, 1920.

1,341,627. INKING MECHANISM FOR PRINTING-PRESSES. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1919. Serial No. 291,939. 8 Claims. (Cl. 101—364.)



1. In inking mechanism for printing presses, a fountain roll, a ductor roller, oscillating means for intermittently driving the fountain roll ahead and means for locking the driving means to the fountain roll during its forward movement, and for releasing the driving means from the fountain roll during the return movement of the driving means.

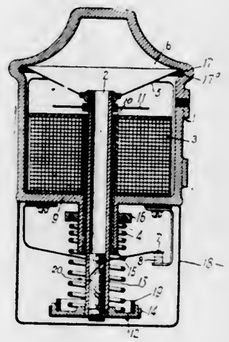
1,341,628. BASEBALL GAME APPARATUS. JAMES D. BOURNE, Stuttgart, Ark. Filed Mar. 31, 1919. Serial No. 286,257. 6 Claims. (Cl. 46—59.)



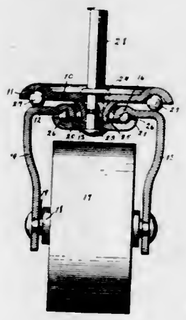
1. An apparatus for playing base-ball, comprising a target having a series of openings therein through which a projectile is adapted to pass, said target being inscribed with score points of the game, a back stop being inscribed with score points of the game registering with the openings of the target, and a movable diamond plate adapted to support figures of ball players and be moved in accordance with the batsman's hits to indicate their base positions.

1,341,629. ELECTRICAL RELAY. HAROLD W. BROWN, Ithaca, N. Y., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 7, 1914. Serial No. 810,799. 6 Claims. (Cl. 175—341.)

1. A relay comprising a stationary magnetizable member, a movable core member, a nonmagnetizable member disposed around the movable core member and an easily saturable member mounted on the movable core member to obtain a definite time element in the operation of the relay.

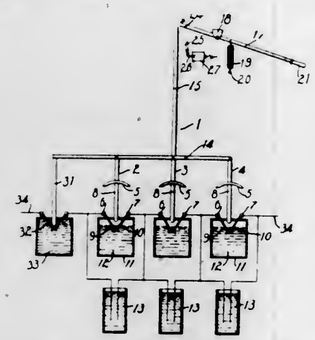


1,341,630. SWIVEL-CASTER. SEIBERT W. CHESNUTT, Kansas City, Mo. Filed Mar. 15, 1920. Serial No. 365,815. 6 Claims. (Cl. 16—73.)



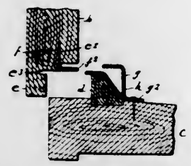
2. A swivel caster, comprising a top plate formed with an annular ball race in its lower surface, a wheel yoke having a substantially horizontal member arranged beneath said top plate and downwardly extending wings between which a wheel is rotatably mounted, bearing balls in the ball race of said top plate contacting the upper surface of the horizontal portion of said wheel yoke, the horizontal portion of said wheel yoke being formed with an annular ball race in its lower surface, a retaining member mounted beneath the horizontal portion of said wheel yoke, bearing balls mounted in the ball race of said wheel yoke and contacting the upper surface of said retaining member, said retaining member being substantially plane and being formed with an upstanding peripheral flange located outside of the last named row of balls, and means for securing said retaining member to said top plate.

1,341,631. CIRCUIT-INTERRUPTER. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 3, 1914. Serial No. 848,800. 12 Claims. (Cl. 200—144.)



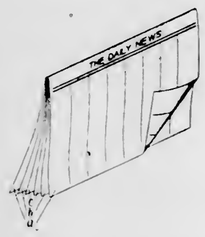
1. A circuit interrupter comprising contact members having film-forming properties and an electrolyte in which the said contact members are immersed, said contact members being adapted to coöperate with the electrolyte to form an electrolytic condenser having a critical voltage higher than the open-circuit voltage of the electrical circuit.

1,341,632. WEATHER-STRIP. ENOS CLAYTON, Detroit, Mich. Filed Aug. 9, 1919. Serial No. 316,375. 6 Claims. (Cl. 20—69.)



1. In a casement window, in combination with a window frame provided with a sill and outer stop affixed thereto, the lower cross-rail of said window recessed to overhang said outer stop, a weather-strip carried by said cross-rail dependent within said recess and provided with an outwardly projecting horizontal flange spaced from the ceiling of said recess, a coöperating weather-strip carried by the sill comprising a trough provided with inwardly projecting horizontal flanges spaced one from the other adapted to receive between them in close-fitting relationship the outwardly-projecting horizontal flange of the weather-strip carried by the cross-rail.

1,341,633. NEWSPAPER. EDGAR H. COTTRELL, Westerly, R. I. Filed Jan. 25, 1915. Serial No. 4,227. 1 Claim. (Cl. 283—1.)



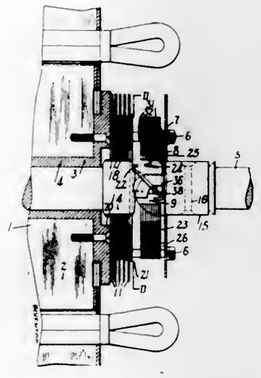
A newspaper comprising a plurality of sheets, each sheet having two printed pages on each side thereof, and a fold line between the pages, the columns of printed matter running at right angles to the fold line, the two printed pages on each side of each sheet reading in opposite directions to each other when the newspaper is unfolded.

1,341,634. NEWSPAPER. EDGAR H. COTTRELL, Westerly, R. I. Filed Jan. 25, 1915. Serial No. 4,230. 1 Claim. (Cl. 283—1.)



A newspaper comprising a plurality of sheets, each sheet having two printed pages on each side thereof, a fold line between the pages, the columns of printed matter running at right angles to the fold line, the two printed pages on the front side of the front sheet when unfolded reading in opposite directions with relation to the fold line and the two printed pages on the back side of the back sheet when unfolded reading in opposite directions with relation to the fold line, and the two printed pages on each of the remaining sides of all of the sheets when unfolded reading in the same direction.

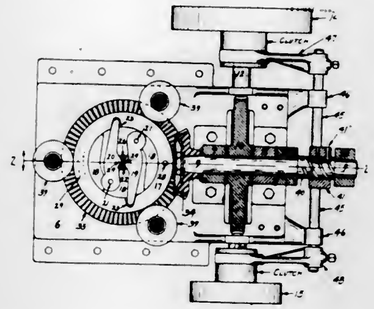
1,341,635. CENTRIFUGALLY-ACTUATED CLUTCH. CARL EMIL LOUIS DAPPRICH, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 18, 1915, Serial No. 2,830. Renewed Sept. 14, 1917. Serial No. 191,500. 7 Claims. (Cl. 192—10.)



1. In a centrifugally actuated clutch, the combination with a rotatable shaft, a base member carried thereby, and a plurality of levers mounted on said base member, of combined means for maintaining said levers in pivotal engagement with said base member and for opposing the pivotal movement of said levers when said shaft rotates.

1,341,636. MACHINE FOR MAKING TWIST-DRILLS. RUDOLPH H. DESCHAFER, Chicago, Ill. Filed May 29, 1919. Serial No. 300,662. 14 Claims. (Cl. 153—78.)

1. In a machine for twisting drills, the combination of a series of rotatable twisting-devices, each comprising a driving member and jaws for gripping the stock movable relatively to and rotated by the driving member so the jaws can be withdrawn to clear the stock after it has been

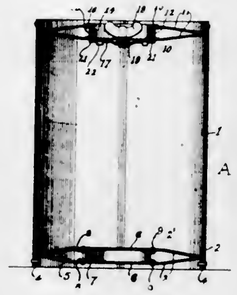


twisted, and a connection between the member and the jaws for shifting the latter into and out of operative position by rotation of the member.

1,341,637. METHOD AND PRODUCT FOR DYEING TEXTILE FABRIC. JOHN W. FRIES, Winston-Salem, N. C. Filed June 13, 1919. Serial No. 303,991. 9 Claims. (Cl. 8—6.)

1. A dye composition formed of indigo material and vegetable dye extract in a dry powdered condition.

1,341,638. METALLIC RECEPTACLE. HENRY R. GOGAY, Columbus, Ohio. Filed Apr. 21, 1919. Serial No. 291,696. 1 Claim. (Cl. 220—68.)

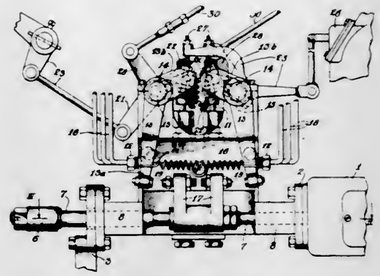


In a sheet metal receptacle, a substantially tubular body, a head structure for said body, comprising a pair of spaced metallic plates, said plates having their peripheral edges rigidly connected to said body and being further provided with registering axial openings, an annulus in alinement with said openings and secured to the inner edges of said plates, a removable closure situated in said openings and having an out-turned flange arranged to rest upon the outer of said plates, and locking mechanism carried by said closure and capable of being projected into and out of engagement with the inner of said plates.

1,341,639. [WITHDRAWN.]

1,341,640. ENGINE FUEL-PUMP. ARTHUR S. HAWKS, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 29, 1917. Serial No. 188,733. Renewed Apr. 1, 1920. Serial No. 370,538. 19 Claims. (Cl. 123—140.)

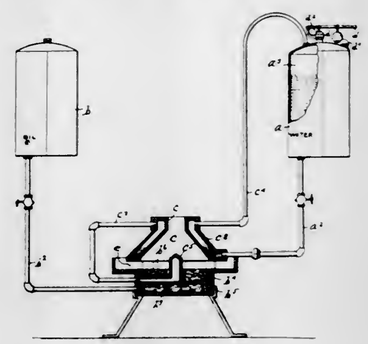
1. In an injection type combustion engine, a fuel pump comprising in combination with the pumping cylinder and piston and mechanism for operating the latter, a mechanically operated, delivery regulating member, an



operator's control to vary the timing of said member and an emergency means for rendering said member inoperative.

1,341,641. [WITHDRAWN.]

1,341,642. APPARATUS FOR OPERATING AND CONTROLLING FUEL-OIL BURNERS. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to Hoffman Products Corporation, Buffalo, N. Y. Filed Aug. 6, 1919. Serial No. 315,599. 2 Claims. (Cl. 158—92.)

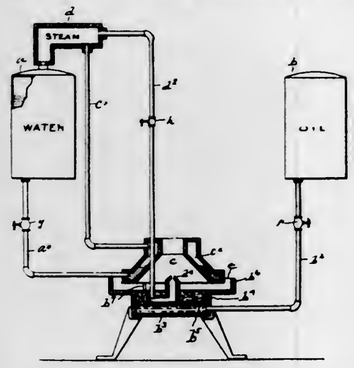


1. In a liquid fuel burner, a combustion chamber, a conical mixing chamber the hollow jacket of which serves as a water vapor generator superimposed over said combustion chamber in such a manner that a circumferential air passageway to said burner is provided beneath the lower edge of the jacket thereof, means connecting said vapor generator and said mixing chamber providing a conduit for vapor from said generator to said chamber terminating in a nozzle axially disposed in said burner so as to project a jet of vapor coaxially upward with the flow of the products of combustion in said burner, an elevated water reservoir, means communicating therefrom to the lowest point of said vapor generator through which the water may pass, vapor communicating means from the upper portion of said generator to the upper end of said water reservoir, a safety valve disposed in the upper end of said water reservoir to control vapor pressure therein.

1,341,643. FUEL-OIL BURNER. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to Hoffman Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,856. 5 Claims. (Cl. 158—92.)

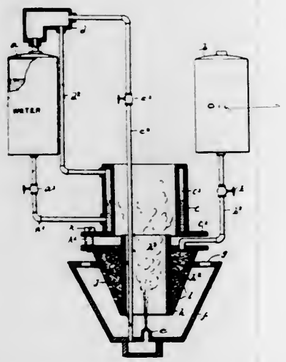
1. In an article of the class described, a combustion chamber, a steam generating chamber, a source of water supply, a conduit between said source of water supply and

said steam generating chamber, a steam reservoir located at a higher level than the water level of said source of water supply and communicating therewith, a nozzle dis-



posed for projecting steam into said combustion chamber, a conduit between said nozzle and said steam reservoir, said conduit passing through said combustion chamber.

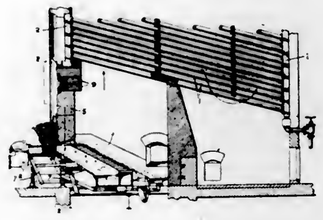
1,341,644. FUEL-OIL BURNER. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to Hoffman Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,857. 7 Claims. (Cl. 158—57.)



1. In a device of the class described, an inverted conical drip pan, an inverted, conical, hollow, jacket oil burner with perforated outer wall concentric with said drip pan, and carried therein and supported thereby, so as to provide an annular chamber therebetween, an air inlet opening at the upper extremity of said chamber, a nozzle so disposed in the lower portion of said chamber, beneath said oil burner, as to draw an air draft along the outer wall of said burner and to project a vapor jet into the hollow interior of such burner, means for supplying water vapor to such nozzle, and means for supplying oil to such oil burner.

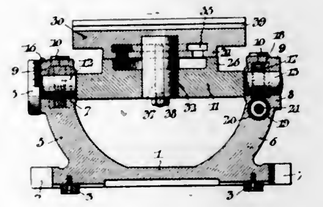
1,341,645. FURNACE-WALL. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 10, 1916. Serial No. 90,058. 14 Claims. (Cl. 110—1.)

1. A vertically extending furnace wall built up of courses of blocks, one or more of the courses having grooved or recessed blocks, a fixed member and metallic tie pieces engaging the fixed member and the grooves or recesses of the blocks and arranged to allow the blocks to move in any direction in a generally vertical plane, the tie pieces assisting in holding the wall in proper alinement.



10. A boiler furnace having a front wall, a stoker mechanism extending under the wall, and the wall resting thereon, a plurality of vertical struts for reinforcing the stoker and aiding in supporting the wall, and means engaging the wall for holding it in alinement above the stoker mechanism.

1,341,646. UNIVERSAL WORK-HOLDER. CHARLES JESNIG, Philadelphia, Pa. Filed Mar. 27, 1919. Serial No. 285,520. 3 Claims. (Cl. 90—58.)



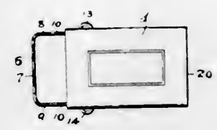
1. In a device of the class described, the combination of a supporting base with a pair of arms extending upward therefrom; a bed plate mounted between said arms with capacity for turning about a horizontal axis; a worm gear turning mechanism for said bed plate associated with and interacting between the same and one of said arms, and comprising intermeshing worm and gear elements, one on the arm, and the other on the bed plate; and a work supporting table swivelly attached to the bed plate so as to be capable of turning in a direction at right angles to the pivotal axis of the table.

1,341,647. ELECTRODE FOR SOLDERING AND DEPOSITING METALS BY THE ELECTRIC ARC. ERNEST HENRY JONES, Islington, London, England. Filed Aug. 16, 1919. Serial No. 317,981. 2 Claims. (Cl. 219—8.)



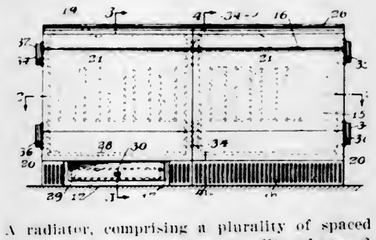
1. Electrodes for soldering and depositing metals by the electric arc, comprising a metal wire, asbestos yarn wound upon said wire, and mechanical fastenings for the ends of the asbestos yarn, as set forth.

1,341,648. BELT-BUCKLE. RICHARD C. KADOW, Newark, N. J., assignor to Samuel M. Riker, Chester, N. J. Filed Dec. 4, 1919. Serial No. 342,373. 4 Claims. (Cl. 24—194.)



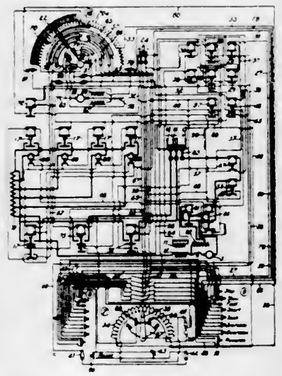
1. A belt-buckle comprising a main body having side-flanges provided with inclined guiding means, a bail for attachment thereto of a belt, said bail having rearwardly extending arms provided with guiding members extending into said guiding means and movably but non-rotatably disposed in said guiding means, roller-receiving elements extending from said guiding members, and a roller rotatably connected with and disposed between said roller-receiving elements.

1,341,649. RADIATOR. HOSFORD D. KELLOGG, Haverford, Pa. Filed May 5, 1916. Serial No. 95,531. Renewed Sept. 15, 1919. Serial No. 323,995. 10 Claims. (Cl. 257—133.)



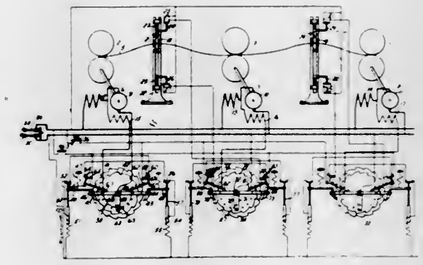
2. A radiator, comprising a plurality of spaced longitudinally extending channels, a plurality of spaced transversely extending channels projecting rearwardly beyond said first channels, and a web provided with restricted openings and extending between the walls of said channels, said radiator being adapted to be positioned against, and with the walls of said transverse channels in uniform contact with, the wall of a room, to form substantially inclosed upright flues surrounded by said web, the said last-named wall and the walls of said channels.

1,341,650. MOTOR-CONTROL SYSTEM. REESE T. KINTZING, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 18, 1916. Serial No. 132,090. 33 Claims. (Cl. 172—179.)



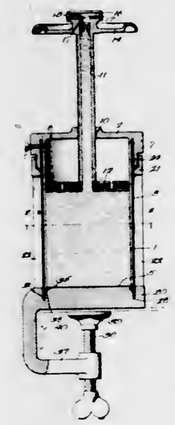
20. In a motor-control system, the combination with means for supplying current at different voltages, an electric motor and a starting resistor, of a controller for changing the connections of said motor for varying the applied voltage and for inserting the resistor when the voltage is increased, and means, comprising a relay, for preventing the inserting of said resistor when the voltage is decreased.

1,341,651. MOTOR-CONTROL SYSTEM. EDWIN S. LAMMERS, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1917. Serial No. 200,007. 10 Claims. (Cl. 80—35.)



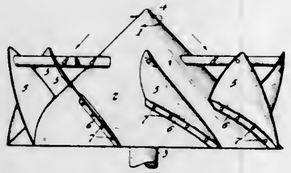
1. The combination with a pair of machines for treating material and a guide member for said material, of means controlled in accordance with the position of said guide member for controlling the speeds of said machines.

1,341,652. GREASE-CUP FILLER. FREDERICK K. LAWRENCE, Chicago, Ill. Filed June 21, 1918. Serial No. 241,100. 13 Claims. (Cl. 221—47.)



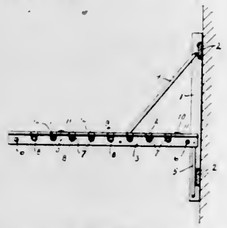
1. Means for discharging the contents of a cylindrical, open top container, said means comprising a cover for the top of the container, said cover having a groove for the reception of the upper edge of the container, means for securing the container in the groove whereby the cover forms a tight closure for the container, a plunger adapted to enter the container, and a stem guided by said cover and operating said plunger, said stem and plunger having a passage through which the contents of the container may be discharged when the plunger is lowered in the container.

1,341,653. FAN, PROPELLER, &c. CHARLES M. LEE, Falls City, Nebr. Filed Aug. 16, 1916. Serial No. 115,165. 5 Claims. (Cl. 170—159.)



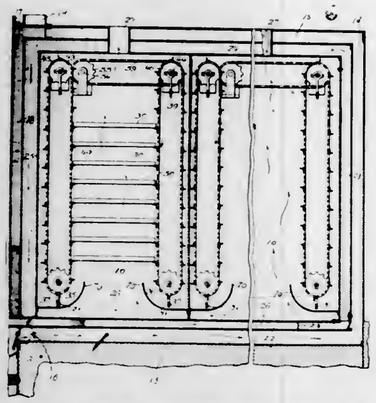
3. A device of the character described, comprising a rotary hub of conoidal shape, a plurality of blades disposed spirally thereon, the outer and inner edges of said blades being substantially parallel, an annular band of conoidal shape mounted on the outer edge of said blades, and a plurality of spirally disposed blades mounted on said band, the outer and inner blades being spaced correspondingly and disposed substantially in paired alinement, and each pair of blades having mutually alined edges disposed substantially to describe a common cylindrical surface when the device rotates.

1,341,654. FOLDING WALL-RACK. WARD W. LINCOLN, Rock Falls, Ill. Filed Oct. 5, 1917. Serial No. 194,856. 2 Claims. (Cl. 45—51.)



1. A device of the class described, comprising a supporting frame, a rack foldably connected therewith and provided with a plurality of rods removably held in place therein: and means for locking said rods in place when said rack is in any but a horizontal position.

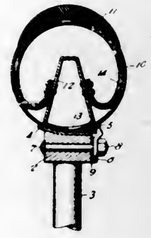
1,341,655. COPRA-DRYING APPARATUS. JOHN D. McCOAN, Manila, Philippine Islands, assignor to San Pablo Oil Mills, Limited, Manila, Philippine Islands, a Corporation of Philippine Islands. Filed Oct. 31, 1917. Serial No. 199,547. Renewed Jan. 2, 1920. Serial No. 349,093. 6 Claims. (Cl. 34—11.)



1. A copra drying apparatus comprising a suitable chamber, means for circulating heated air around and through the same, two pairs of sprockets and chains disposed in opposite sides of said chamber, upper and lower shafts upon which said sprockets are mounted, angle metal strips connecting each pair of chains, removable trays supported by said strips, a pinion upon one of said shafts, an idle gear in mesh with said first mentioned pinion, an arbor for said idle gear, and a chain and sprocket connection between said arbor and the oppositely disposed conveyer shaft whereby the motion of one conveyer is transmitted to the opposite conveyer and the proximate runs of said conveyers are caused to move sumultaneously in the same direction.

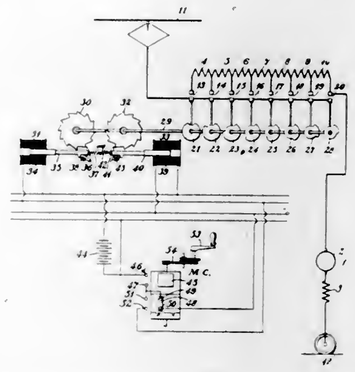
5. A copra drier comprising a chamber, means for circulating drying medium around and through the same, a plurality of removable trays within said chamber, oppositely disposed simultaneously movable conveyers provided with means adapted to support and move said trays, and upwardly curved shields in the lower portion of said chamber adapted to support the lowermost tray after said conveyer means passes below said devices.

1,341,656. TIRE. WILLIAM H. McGOWEN, Vincennes, Ind. Filed Oct. 17, 1919. Serial No. 331,390. 4 Claims. (Cl. 152—8.)



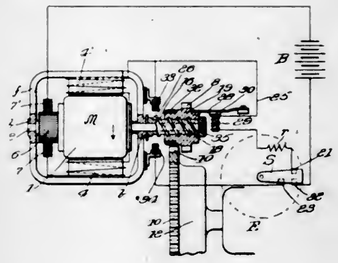
1. A filler for tires comprising an annular hollow support gradually increasing in width from its outer face toward its inner face, a series of arched springs connected with the support, each of said springs having its ends bent outward and lapped upon the opposite sides of the support and secured thereto, and a shoe or casing inclosing the support.

1,341,657. CONTROL SYSTEM. FREDERICK H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1917. Serial No. 151,939. 11 Claims. (Cl. 172—179.)



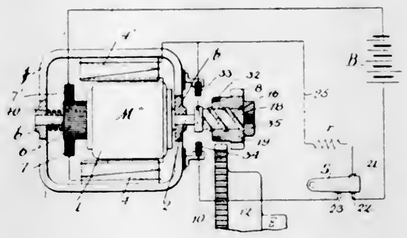
4. In a system of control, the combination with a motor and a plurality of switches for governing the operation of the motor, of means, comprising an electromagnet, for successively operating said switches, and a continuously rotatable controller having a single contact segment for intermittently making and breaking the circuit of said electromagnet.

1,341,658. STARTER FOR INTERNAL-COMBUSTION ENGINES. JOHN ROSCOE MILLWARD, Newark, N. J., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 19, 1913. Serial No. 801,850. 7 Claims. (Cl. 290—38.)



1. An electrical starting device for internal combustion engines, comprising in combination with a motor, a connector element shiftable by the motor to couple the motor and the engine for starting of the latter, and means actuated by the motor and carried by the connector element to close the driving circuit only when the connector element is in proper engagement with the engine and to maintain said circuit closed during the starting operation.

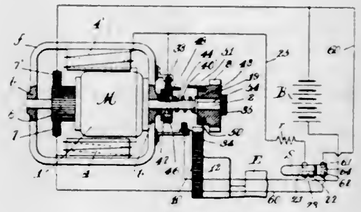
1,341,659. ELECTRIC STARTER FOR INTERNAL-COMBUSTION ENGINES. JOHN ROSCOE MILLWARD, Newark, N. J., assignors to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Original application filed Nov. 19, 1913, Serial No. 801,850. Divided and this application filed Dec. 24, 1917. Serial No. 208,561. 11 Claims. (Cl. 290—38.)



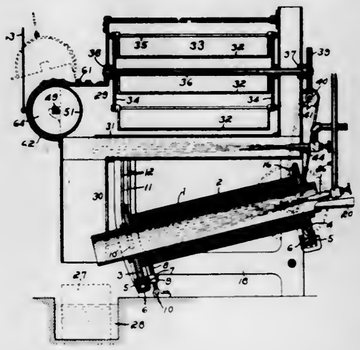
4. In a starting mechanism, the combination with a pair of coacting gear wheels, and a screw-threaded shaft for supporting one of said gear wheels, of means for simultaneously rotating said shaft and shifting it longitudinally.

1,341,660. ELECTRIC STARTER FOR INTERNAL-COMBUSTION ENGINES. JOHN ROSCOE MILLWARD, Newark, N. J., assignors to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Original application filed Nov. 19, 1913, Serial No. 801,850. Divided and this application filed Dec. 24, 1917. Serial No. 208,562. 10 Claims. (Cl. 290—38.)

1. In combination with an engine: a starting motor therefor including a normally decentered sliding armature, a connector member connected with said armature and movable with said armature into engagement with the engine; and circuit closing means for said motor including brush and coacting contact members, one of said members mechanically connected with the armature.



1,341,661. HARDENING AND ANNEALING FURNACE. ALFRED M. MOORE, Malden, Mass., assignor to Alfred M. Moore and Chester M. Moore, Copartners doing business as Moore & Company, Malden, Mass. Filed July 3, 1919. Serial No. 308,384. 17 Claims. (Cl. 263—36.)



6. A hardening and annealing furnace comprising a movable hardening chamber, means for introducing heat therein, an annealing chamber, a movable carrier therein, a material tumbling annealing chamber, movable relative to the annealing chamber, a flue from the hardening chamber in heating relation to said annealing chambers, independent heating means for the annealing chambers, and means for agitating the tumbling annealing chamber.

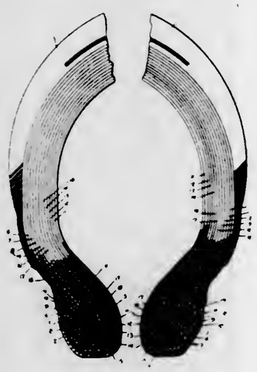
1,341,662. REFILLABLE ELECTRIC FUSE. WILLIAM F. MULLER, Brooklyn, N. Y., assignor to Perfect Re-Fillable Fuse, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 1, 1919. Serial No. 279,976. 1 Claim. (Cl. 200—132.)



In a fuse, a casing, a terminal at one end thereof having a threaded bore, a wall at the end of said bore and integral with said terminal having a relatively small opening to receive one end of a fuse-wire, a terminal at the opposite end of said casing having a threaded bore, a wall at the end of said bore integral with said terminal having a relatively large opening for the passage of the opposite

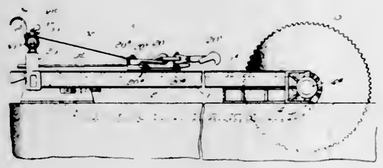
end of a fuse-wire, a removable loosely mounted plate adjacent the wall with the large opening having a relatively small opening, a fuse wire passing through said openings, and a threaded plug for each terminal arranged to force the ends of the fuse-wire against the wall of one terminal and the removable plate in the other terminal.

1,341,663. TIRE-CASING. DE COURCY NEAL, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 30, 1916. Serial No. 106,755. 3 Claims. (Cl. 152—13.)



1. A tire body comprising an inner and an outer anchor member adjacent each rim engaging edge of the tire body, outer and inner sets of plies for each of said members, each of said sets of plies comprising superficial plies and central plies, the latter of which plies are looped about their respective anchor members, and the edges of the central plies of the inner set of plies extending between the two anchor members.

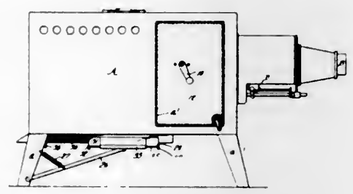
1,341,664. METAL-DRAWING APPARATUS. FRANK J. O'BRIEN, Milwaukee, Wis. Filed May 5, 1919. Serial No. 294,813. 4 Claims. (Cl. 205—22.)



1. In combination, a drawing member, a die carrying member, a retrieving member, said retrieving member comprising a drum, a flexible member carried on said drum and attached to said drawing member, and spring means coacting with said drum to store energy during the movement of said drawing member away from said die carrying member and operably returning said drawing member to said die member at the conclusion of said drawing movement.

1,341,665. PROJECTION APPARATUS. HARVEY N. OTT and FRANK H. BUFTON, Buffalo, N. Y., assignors to Spencer Lens Co., Buffalo, N. Y. Filed Oct. 31, 1916. Serial No. 128,699. 4 Claims. (Cl. 88—26.)

1. In a projection apparatus, the combination with a light casing having an exposure opening in its bottom, and projection means for projecting an image of an object æexposed at said opening, of an object guide extending horizontally beneath said exposure opening lengthwise in the direction of the projection of the image of the object by said projection means, said guide being open at both ends whereby the object for exposure is adapted to be placed in said guide and moved horizontally lengthwise



through and out of said guide to and from exposure position relative to said opening in the bottom of the casing, and said guide and casing being constructed and relatively arranged so as not to interfere with the insertion or removal of the object horizontally into or out of the guide.

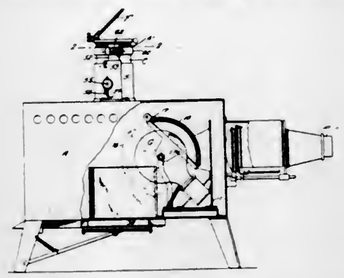
1,341,666. PROJECTION APPARATUS. HARVEY N. OTT and FRANK H. BUFTON, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y. Original application filed Oct. 31, 1916, Serial No. 128,699. Divided and this application filed Nov. 3, 1917. Serial No. 200,014. 5 Claims. (Cl. 88—24.)

1. In a projection apparatus, the combination of a light casing, means for supporting an opaque object at the lower portion of the casing, a projection objective at one end of the casing, a projection objective at the upper portion of the casing, a source of light arranged in the casing adjacent to said first mentioned objective and between the same and the axial line of said other objective, and a reflector for reflecting light onto said object and arranged to move to and from a position in which it is between the source of light and said first mentioned objective.

1,341,667. ADJUSTING MEANS FOR PROJECTION OBJECTIVES. HARVEY N. OTT and FRANK H. BUFTON, Buffalo, N. Y., assignors to Spencer Lens Co., Buffalo, N. Y. Original application filed Oct. 31, 1916, Serial No. 128,699. Divided and this application filed Nov. 13, 1919. Serial No. 337,772. 4 Claims. (Cl. 88—24.)

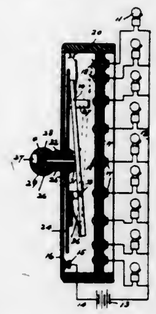
1. In a projection apparatus, the combination of a projection objective, a guide in which said objective is arranged to slide up and down, a guide arranged at one side

of said objective, a post arranged to slide up and down in said last mentioned guide, a spring which acts to lift



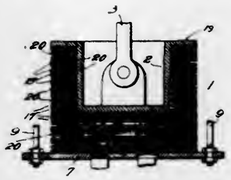
said post, means for moving said post up and down, and means whereby the post supports at least in part the weight of said objective.

1,341,668. ELECTRIC PUSH-BUTTON FIXTURE. OSCAR A. PEDERSEN, New York, N. Y. Filed Mar. 11, 1919. Serial No. 281,976. 1 Claim. (Cl. 200—6.)



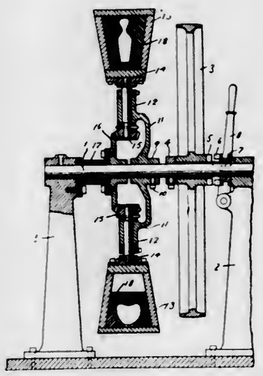
A selective circuit closer comprising a plurality of annularly arranged contact buttons; a cover plate for said buttons; a disk rotatively mounted in said cover plate, said disk having an open-ended tubular boss, forming a bearing for said disk, said disk being provided with indicia markings, said markings being arranged for successive exposure through an opening in said cover plate; a tubular handle removably mounted on said boss for operating said disk; a rocking arm pivotally suspended on said disk and extended in parallel relation to a diameter thereof, the free end of said arm extending into a path coincident with said buttons; and a reciprocating push-pin mounted in said handle and resting on said arm for depressing the free end thereof to engage said buttons successively.

1,341,669. PUMP. EDWIN F. PORTER, Boston, Mass., assignor to United Mattress Machinery Company, Boston, Mass., a Corporation of Maine. Filed Mar. 24, 1919. Serial No. 284,683. 4 Claims. (Cl. 103—10.)



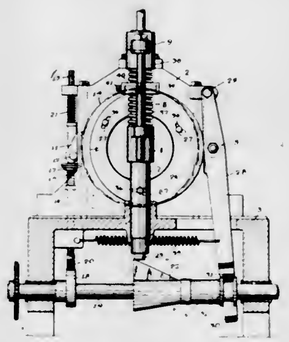
1. In a pump, the combination with a cylinder element comprising a plurality of superposed flat rings, each of which is connected at its inner edge to the inner edge of the next adjacent ring on one side and at its outer edge to the outer edge of the next adjacent ring on the other side, of a cylinder head to which one end of the cylinder is secured, a piston element connected to the other end of the cylinder element, means to move the piston element thereby to expand and contract the cylinder, and means to cause the expanding movement of the cylinder to be equally distributed throughout the length of the cylinder.

1,341,670. CASTING-MACHINE. RANSOM JUDD POWELL, Minneapolis, Minn. Filed Oct. 27, 1919. Serial No. 333,605. 5 Claims. (Cl. 18—26.)



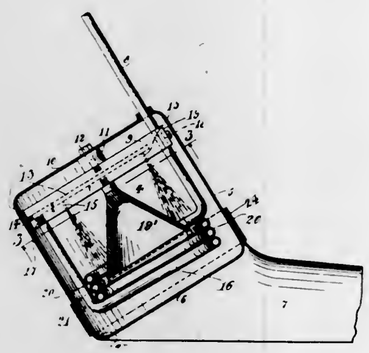
5. In a machine for the casting of hollow objects, the combination of a revoluble member, a plurality of arms extending therefrom, a mold-carrying means rotatably mounted on each extending arm and means to engage each mold-carrying means to cause all molds to be rotated upon the revolution of said member.

1,341,671. APPARATUS FOR MANUFACTURING PISTON-RINGS. FREDERICK RAY, Short Hills, N. J. Filed Oct. 12, 1918. Serial No. 257,843. 9 Claims. (Cl. 78—27.)



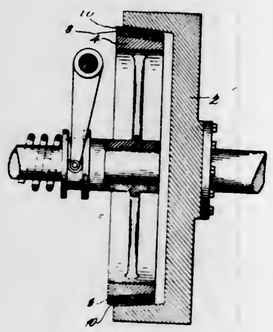
1. In a machine for operating upon concentric piston rings so as to cause them to exert uniform reaction when in use, the combination of ring-supporting means, a pointed member to act upon the inner circumference of the ring, a spring for energizing said member, means for automatically varying the force of the spring as the member acts upon different sections of the ring, and means for adjusting the effective length and the initial compression of the spring.

1,341,672. PORTABLE BURNER. ENOCH RECTOR, New York, N. Y. Filed Dec. 2, 1916. Serial No. 134,564. 2 Claims. (Cl. 126—271.2.)



1. A portable burner including an inclosing casing having a lower end provided with an opening, said casing when in operative position adapted to be inclined at an angle to the horizontal so that the opening will face a surface to be heated, flame creating means in said casing, means confined within the casing for directing the flame from said flame creating means through said inclined opening and a shield extending horizontally from the casing containing the flame directing means and adapted to be positioned over the portion of said surface facing said opening and in advance of the casing.

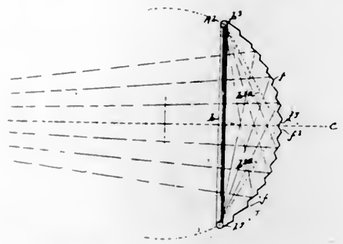
1,341,673. CLUTCH-FACING. DANIEL REPONY, Passaic, N. J., assignor to The Manhattan Rubber Mfg. Company, a Corporation of New Jersey. Filed July 3, 1919. Serial No. 308,415. 3 Claims. (Cl. 192—1.)



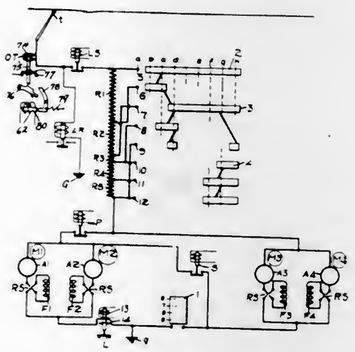
1. A friction clutch having engaging faces, one of said faces comprising spongy rubber inclosing a multitude of closed pin-head air cells.

1,341,674. ILLUMINATING APPARATUS. JACOB F. RHODIN, Highland Park, Mich. Filed Aug. 5, 1918. Serial No. 248,278. 4 Claims. (Cl. 240—41.)

1. In a head light, the combination of a circular light-source and a reflector consisting in a concave part outside the circle reflecting the light directly forward and a concave part inside the circle also reflecting the light directly forward, said light source being closely adjacent to the reflecting surface, the reflecting surface within said light source being continuous and free from obstruction.



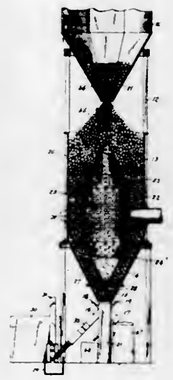
1,341,675. CONTROL SYSTEM. LYNN G. RILEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1916. Serial No. 128,413. 17 Claims. (Cl. 172—179.)



1. In a system of control, the combination with a plurality of motors adapted to be operated in series and in parallel relation, of means for effecting the transition of the motors from series to parallel relation, said means comprising two normally open independent switches and a controller segment for directly completing the motor-transition circuits, and means comprising a master controller for governing said switches and said controller segment.

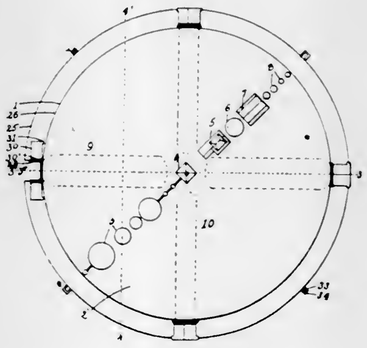
1,341,676. APPARATUS FOR TREATING COFFEE. AUGUST ROBERT, Coatepec, Mexico, assignor to Carlos L. Polanco, Coatepec, Veracruz, Mexico. Filed Dec. 13, 1918. Serial No. 266,612. 3 Claims. (Cl. 34—34.)

3. An apparatus for treating coffee comprising a perforated upright receptacle having an inlet, a downwardly converging outlet section communicating with said receptacle, a hopper located above and in registry with said inlet whereby coffee beans are fed to said receptacle, a trough, a belt and buckets whereby said beans are removed from said trough and delivered to said hopper, a conduit connected with said outlet section for conducting said beans back to said trough whereby said beans are caused to pass through said receptacle in a downwardly moving substantially continuous mass, a hollow perforated member within said receptacle and forming therewith an annular chamber, a downwardly converging portion forming a continuation of said member whereby said beans are evenly distributed throughout said annular chambers, an



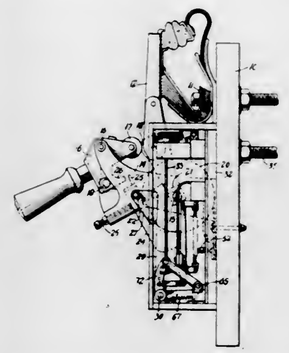
outlet pipe connected with said downwardly converging section, a closed chamber inclosing said apparatus, means for supplying a drying agent to said closed chamber and a suction device connected with the interior of said hollow member.

1,341,677. MID-OCEAN STATION. JAMES M. ROBERTS, near St. Joseph, Mo. Filed Jan. 23, 1920. Serial No. 353,388. 5 Claims. (Cl. 114—0.5.)



1. A mid-ocean station comprising; a station; a top for said station said top being diametrically divided through its center forming two fields adapted to have air craft alight thereon; a bottom for said station; a floor placed at a predetermined distance above said bottom; a vertical wall connecting the annular edges of said bottom and floor; an annular bulkhead connecting said floor and bottom at a predetermined distance from said vertical wall; stiffening structure in the space between said bottom and floor for stiffening them; a plurality of harbors and dry-docks formed radially on and extending above said floor; a stiff superstructure formed on said floor between and above said harbors and drydocks said superstructure connecting said floor with the top of said station; and a plurality of apartments formed in said superstructure for housing a variety of industries, articles and occupants.

1,341,678. CIRCUIT-BREAKER. FRANK W. ROLLER, East Orange, N. J., assignor to Roller-Smith Company, a Corporation of New York. Filed Mar. 14, 1917. Serial No. 154,696. 14 Claims. (Cl. 200—108.)



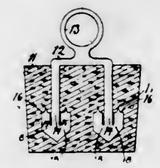
1. The combination of a switch, an overload coil and a movable armature for causing the opening of said switch, an auxiliary member normally restraining the movement of said armature, said member being affected by said coil to release said armature upon passage of a predetermined excessive current, and a time-limit device also controlling the action of said member to release said armature upon the passage of a lesser current for an interval of time.

1,341,679. HAT-FRAME. RICHARD W. ROSEMIRE, Walden, N. Y. Filed July 28, 1919. Serial No. 313,873. 2 Claims. (Cl. 2—111.)



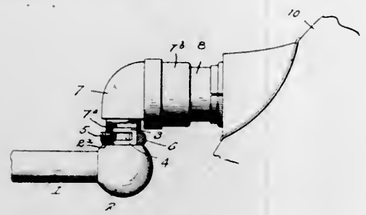
1. A hat frame embodying a portion for supporting the top of the crown, and downwardly extending free terminal portions bendable to seat on the sweat band and support the first named portion against the top of the crown.

1,341,680. PULLER FOR STOPPERS. THOMAS C. SPELLING, New York, N. Y. Filed July 12, 1918. Serial No. 244,544. 9 Claims. (Cl. 215—53.)



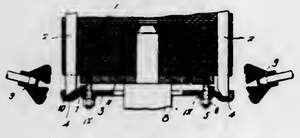
1. A puller for closures comprising a metal prong sharply pointed at one end having also sharpened exterior edges adjacent to the point, wings on laterally extended portions of the prong, the wings bluntly shouldered on each side of a sharp point formed centrally thereon, and slanted at an angle from the plane of the wing.

1,341,681. DIRIGIBLE LAMP. WILLIAM H. SPENCER, New York, N. Y., assignor to George Frink Spencer, New York, N. Y. Filed June 19, 1917. Serial No. 175,618. 2 Claims. (Cl. 240—73.)



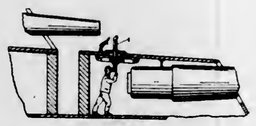
1. The combination with a bracket arm provided with a cylindrical nib or journal and an annular bearing surface extending around said nib or journal, a lamp carrying fitting having a reduced branch freely journaled on said nib or journal and bearing against said annular bearing surface, an enlarged branch on said fitting, a lamp socket mounted in said enlarged branch, a reflector mounted on said lamp socket to swing about the axis thereof, and means interengaging between said cylindrical nib or journal and said reduced branch for constraining said enlarged branch to a free swinging movement in a fixed plane.

1,341,682. METHOD OF BRAZING END RINGS. CHARLES W. STARKER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 3, 1917. Serial No. 184,249. 5 Claims. (Cl. 113—112.)



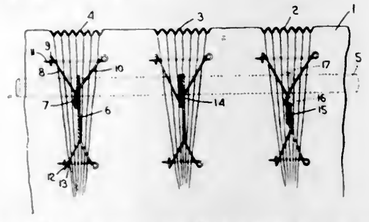
1. The method of manufacturing a dynamo-electric-machine rotor comprising brazing a member provided with an annular depression to a plurality of circumferentially arranged bars having their ends located in said depression which consists in placing a ring of solid fusible material adjacent to the edge, but outside, of the depression and applying heat to fuse said material and to cause it to flow into the depression.

1,341,683. PERISCOPE. HARRY H. STYLL, Southbridge, Mass. Filed July 31, 1918. Serial No. 247,521. 15 Claims. (Cl. 88—1.)



1. In a device for taking observations, the combination of a sighting instrument, a bifurcated transverse cross member embracing the instrument between the bifurcations, pivotal connections between the instrument and the bifurcations of the cross member whereon the instrument may be swung to lie between the bifurcations of the cross member and pivotal connections on the cross member adapted to secure the cross member to a barrier whereon the cross member and with it the instrument may be swung as an entity.

1,341,684. DRAPERY-HOLDER. HELENE L. SWENEY, Boston, Mass. Filed Mar. 20, 1918. Serial No. 223,492. 7 Claims. (Cl. 24—87.)



4. A drapery holder comprising a base section adapted to extend vertically of the back of a hanging drapery, means on said base section for supporting the holder from a rod, V-shaped wire sections divergingly extended from said base section at the upper and lower ends thereof, one arm of each of said V-shaped sections formed to present a hook and the other arm bent transversely to form a drapery engaging and supporting pin coöperating with the corresponding hook.

1,341,685. BEVEL-GEAR. RANDAL E. TALLEY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1919. Serial No. 308,741. 9 Claims. (Cl. 74—41.)

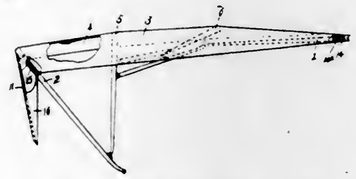


1. A bevel gear or pinion comprising a body of superimposed layers of fibrous sheet material and a hardened binder, the peripheral edge portions of the sheets being bent to dispose them at substantially right angles to the face of the gear teeth.

1,341,686. PROCESS OF EXTRACTING PLATINUM AND SIMILAR METALS FROM THEIR SANDS AND ORES. RUSSELL THAYER, Philadelphia, Pa. Filed June 26, 1919. Serial No. 306,774. 2 Claims. (Cl. 75—17.)

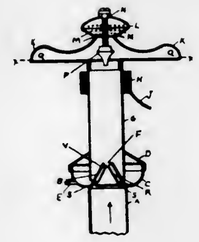
1. The herein described process for the recovery of platinum and similar metals from granular ore, which consists in commingling, with a charge of ore, a halogen compound of an alkali metal; subjecting the charge to the action of heat, whereby the metal is volatilized and removed from the ore; and collecting the volatilized metal, substantially as set forth.

1,341,687. AUTOMOBILE-TOP. JOSEPH VETTER, Toledo, Ohio. Filed Dec. 30, 1918. Serial No. 268,869. 2 Claims. (Cl. 296—137.)



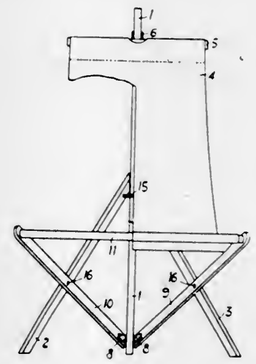
1. In a top of the class described, a frame having a bow, a deck cover disposed over the frame, a plurality of strips disposed beneath the cover longitudinally thereof, each of said cover and strips having loops therein disposed one over the other at the outer side of the frame bow, a cross piece extended through the strip loops over the bow and having studs projecting therefrom in removable interengagement with the bow, a clamping strip disposed in the cover loop and disposed at the outer side of said cross piece and means securing the clamping strip to said bow in binding clamping coaction with the cross piece.

1,341,688. HYDROCARBON-BURNER. FRED M. WALKER, Detroit, Mich. Filed Aug. 14, 1918. Serial No. 249,776. 4 Claims. (Cl. 158—28.)



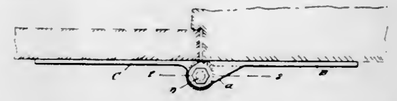
1. In a hydrocarbon burner, in combination with an air supply pipe having a tapered upper end, a cone member spacedly located therewithin, means for supplying kerosene to said cone member, an upper pipe member rising above the tapered end of the air supply pipe, means for initially heating the top portion of said upper pipe member, a perforated shell piece with whose interior said upper pipe member is connected, and a distributing cone located in the opening between said last named members.

1,341,689. COLLAPSIBLE CHAIR. CUTHBERT HORNER WALMSLEY, Eccles, England. Filed Dec. 9, 1919. Serial No. 343,632. 1 Claim. (Cl. 155—139.)



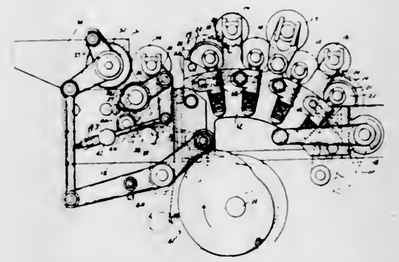
A collapsible chair comprising three legs articulated to one another, and constituting a tripod, the central leg formed with an upward extension, a collapsible isosceles triangular structure jointed at the apex to said central leg, its equal sides being jointed to the two remaining legs of said tripod, and a roll-up seat bridging said extension and the base of said triangular structure, said legs and the members of said triangular structure being readily separable and capable of assembly to a bundle to be enwrapped in said seat.

1,341,690. HINGE. JOSEPH R. WERNER, Granite City, Ill. Filed Oct. 28, 1919. Serial No. 333,975. 2 Claims. (Cl. 16—113.)



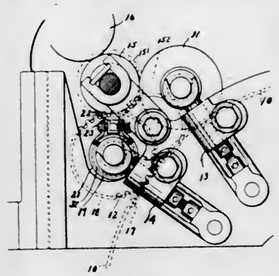
1. A device of the character described comprising two hinge members, a pivot bolt passing through said members, means to prevent said bolt turning, a supporting piece adjustably mounted on said bolt and forming a movable bearing for one member, and means to prevent said supporting piece from turning.

1,341,691. INKING MECHANISM. JOSEPH WHITE, Piscataway township, N. J., assignor to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey. Filed June 3, 1919. Serial No. 301,491. 10 Claims. (Cl. 101—350.)



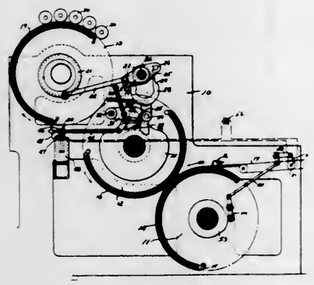
1. A fountain roller, a ductor roller, an ink-receiving member, means to move the ductor roller between the fountain roller and the ink-receiving member to contact alternately with each, and a distributer roller adjacent the path of the ductor roller, the ductor roller moving means being constructed and arranged to move said ductor roller out of contact with said distributer roller when the ductor roller is in contact with the fountain roller, and into contact with said distributer roller before said ductor roller contacts with said ink-receiving member.

1,341,692. INKING-ROLLER-DRIVING MECHANISM. JOSEPH WHITE, Piscataway township, N. J., assignor to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey. Filed June 3, 1919. Serial No. 301,492. 4 Claims. (Cl. 101—349.)



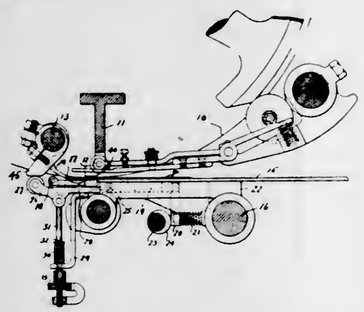
2. A moving surface, a metallic distributer spaced from said surface, a non-metallic inking roller in contact with said distributer and said surface, a driving gear moving with said surface, a driven gear mounted on the end of said inking roller and independent thereof and frictional connections between said driven gear and said roller.

1,341,693. PRINTING-PRESS. JOSEPH WHITE, Middlesex, N. J., assignor to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey. Filed Sept. 24, 1919. Serial No. 325,945. 9 Claims. (Cl. 101—218.)



1. In a printing press, having a form cylinder, a blanket cylinder and an impression cylinder, a feed gage to position a sheet being fed to the impression cylinder, means to forward a sheet to said gage, the printing surfaces on the form and blanket cylinders being constructed and arranged so that they are normally in contact at the time a sheet is taken from said gage by said impression cylinder, tripping means to separate the blanket and the form cylinders, and means, controlled by the presence or absence of a sheet in said sheet-forwarding means at a point remote from said gage, to actuate said tripping means to separate said cylinders before the printing surfaces thereon come into contact.

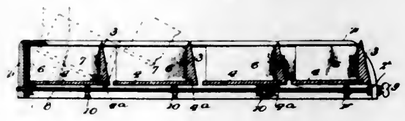
1,341,694. SHEET-GAGE. JOSEPH WHITE, Piscataway township, and WILLIAM ECKHARD, Plainfield, N. J., assignors to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey. Filed Sept. 24, 1919. Serial No. 325,946. 11 Claims. (Cl. 271—53.)



3. A sheet carrier having a gripper shaft with sheet grippers thereon, a sheet gage to position a sheet in position to be taken by said grippers, a yieldingly mounted member adapted to hold said gage in its gaging position, and a cam on said shaft adapted to contact with said yieldingly mounted member to move said gage out of the path of the sheet as the grippers close on the sheet.

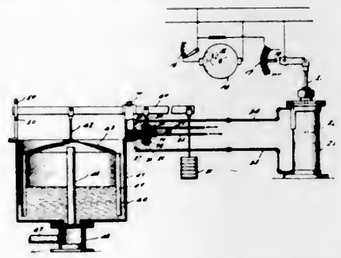
1,341,695. CARD-DISTRIBUTING DEVICE. UNION B. WHITE and MYRON H. WETZEL, Seattle, Wash. Filed May 19, 1919. Serial No. 298,088. 2 Claims. (Cl. 211—37.)

1. A tray having a marginal flange, spaced parallel partition strips secured in opposing sections of the flange, a bottom between each adjacent pair of strips, means for hingedly supporting each bottom and strip adjacent one longitudinally edge thereof, a rock shaft mounted below the bottoms, and a cam on such shaft beneath each bottom.



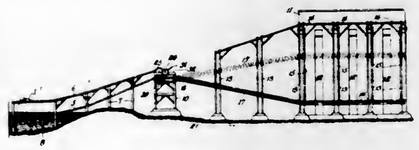
2. A card distributer, comprising a tray, having a back flange, side flanges extending therefrom, a strip connecting the free ends of the side flanges, spaced parallel partition strips, bottoms secured thereto, said partition strips and bottoms being disposed between the side flanges, pins extending from said bottoms near one longitudinal edge and pivotally supported by the side flanges, spaced transverse partitions carried by the bottoms, a rock shaft mounted below the bottoms in the strip and back flange, cams on the shaft beneath each bottom, and an operating handle on one end of the shaft.

1,341,696. PROPORTIONAL GOVERNOR. JOHN T. WILKIN, Connersville, Ind., assignor to The Connersville Blower Company, Connersville, Ind., a Corporation of Indiana. Filed Apr. 24, 1916. Serial No. 93,284. 14 Claims. (Cl. 103—93.)



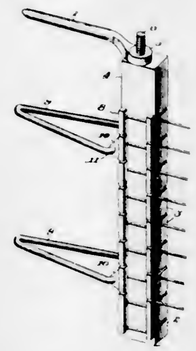
3. In combination, a coke oven, an offtake main receiving gas from said coke oven, an exhauster connected to said offtake main, a power device for operating said exhauster, means for controlling the speed at which said exhauster is driven by said power device, a piston and cylinder, the piston being connected to said speed-controlling means, a source of liquid under pressure, a control valve for controlling the admission of liquid under pressure from said source to either end of said cylinder and permitting the escape of said liquid from the other end of said cylinder, a bell dipping into a liquid and operating said control valve, and a connection from an inclosed space vertically on one side of said bell to the offtake main, so that the pressure in such space corresponds to that of the intake side of the exhauster.

1,341,697. ICE-CONVEYER. HAROLD BLAKE WOOD, Hudson, N. Y., assignor to Gifford-Wood Company, Hudson, N. Y. Continuation of application Serial No. 804,051, filed Dec. 1, 1913. This application filed June 13, 1918. Serial No. 239,759. 17 Claims. (Cl. 193—3.)



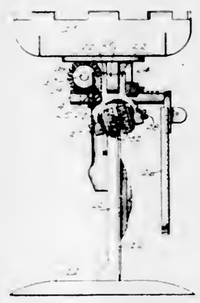
1. Means for elevating ice from a body of water and delivering it to an icehouse, comprising an endless elevating conveyer having an ice runway and dipping at the lower end into the body of water with the lower run of the conveyer constituting the propelling means for ice along the runway, and an endless conveyer in position to receive on its upper run ice delivered from the upper end of the first named conveyer and move the ice to the icehouse.

1,341,698. WIRE-FENCE CLAMP. JOHN B. WOODSON, Fayette, Mo. Filed May 29, 1919. Serial No. 300,760. 4 Claims. (Cl. 254—83.)



1. In a fence clamp, a post, slidable sleeves on said post, means for pressing together said sleeves to grip the line wires of a fence, and means on the clamp adjustable longitudinally of said post for attaching a tensioning means to the clamp.

1,341,699. GRINDER FOR ROTARY CLOTH-CUTTING MACHINES. MARTIN ZAWISTOWSKI, Brooklyn, N. Y. Filed Oct. 30, 1919. Serial No. 334,529. 8 Claims. (Cl. 51—7.)



1. A grinder for rotary cloth cutting machines including a spindle normally held against rotation, a pair of hubs independently and freely rotatable thereon, means engaging with the outer ends of said hubs for adjusting them axially on said spindle, and grinder stones rigidly but detachably secured to said hubs.

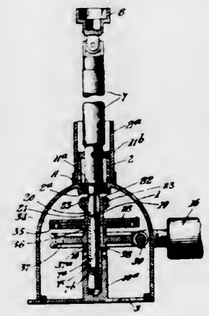
1,341,700. POWER-WRENCH. GEORGE DEWEY ALEXANDER, New York, N. Y., assignor of one-half to Clarence R. Saunders, Cleveland, Ohio. Filed June 3, 1919. Serial No. 301,487. 2 Claims. (Cl. 81—57.)

1. In a portable hand-tool of the class described, the combination of a revoluble tool-carrying spindle having a beveled gear on its under end; a casing formed with a tubular bearing for the spindle and with a gear-containing chamber and also with a clutch-containing chamber, the chambers being spaced apart by a wall, and said tubular bearing communicating with the gear-containing chamber; said beveled gear on the spindle being located in the gear-containing chamber; an endwise-slidable driven shaft provided with a pair of beveled gears spaced apart by a distance greater than the diameter of the beveled gear on the spindle and located to be brought one at a time into mesh with the beveled gear on the spindle; said wall between the two chambers being apertured to form a bearing for an end portion of the driven shaft which projects into the clutch-containing chamber, the wall of the gear-containing chamber being provided with a bearing for the other end of the driven shaft; in said clutch-



containing chamber a clutch-disk-carrying sleeve loose on that portion of the driven shaft which is within the clutch-containing chamber, such portion of the driven shaft being provided with a lengthwise-extending slot for reception of a transverse pin through the bore of said sleeve; the transverse pin; the outward end of the wall of the clutch-containing chamber being tubular, threaded, and open; a cup-shaped clutch-disk carrier having its bottom-forming wall centrally apertured and splined on a driver shaft independent of but alined with said driven shaft; said driver shaft; and a flanged clutch-plate-clamping cap having a central aperture, and the flange of which is threaded for engagement with the threaded tubular wall of the clutch-containing chamber; the driver shaft projecting outwardly through the central aperture of said cap.

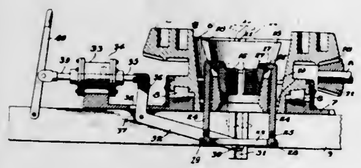
1,341,701. POWER-DRIVEN TOOL-DRIVER. GEORGE DEWEY ALEXANDER, New York, N. Y., assignor of one-half to Clarence R. Saunders, Cleveland, Ohio. Filed Oct. 9, 1919. Serial No. 329,599. 6 Claims. (Cl. 81—53.)



1. The combination of a revoluble tool-carrying spindle constructed at one end for connection with the tool, and provided at its other end with a radially-projecting worm

gear of a diameter in excess of the diameter of said spindle; a worm shaft and a therewith-alined and mechanically-connected shaft of an electric motor; such motor; a framework for holding together and for fixing the intermeshing worm gear and worm shaft and the motor shaft in fixed operative positions with the worm shaft and motor shaft in alinement and at right-angles to and spaced laterally apart from the axis of the spindle; and a clutch mechanism between the spindle and worm gear for clutching the spindle to and unclutching it from the worm gear; and a clutch-actuating mechanism carried by said framework.

1,341,702. ROTARY DRILLING-MACHINE. LEE J. BLACK, Beaumont, Tex. Filed Feb. 19, 1920. Serial No. 359,969. 5 Claims. (Cl. 255—23.)



1. In a rotary drilling machine, a member having a vertical opening, a bushing seating in said opening, the upper portion of the interior of the bushing being enlarged diametrically and tapered downwardly, and the interior of the bushing below said enlarged portion being also tapered downwardly, work-gripping blocks mounted for vertical sliding movement in the bushing, and vertically movable supporting members for the blocks, said members being also movable laterally to draw the blocks outwardly with respect to the center of the bushing into the enlarged upper portion thereof.

1,341,703. [WITHDRAWN.]

1,341,704. SOUND-ABSORBING COATING. CLARENCE H. BRYCE, Glen Ridge, N. J., assignor to Benjamin Moore & Co., Brooklyn, N. Y., a Corporation of New Jersey. Filed Sept. 18, 1919. Serial No. 324,284. 2 Claims. (Cl. 134—54.)

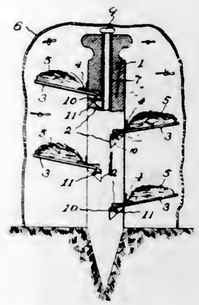
1. The herein described composition of matter and article of manufacture consisting of carbonate of magnesium and a vehicle consisting of rubber and volatile spirits substantially as described and for the purpose specified.

1,341,705. DETONATING-FUSE. WILLARD C. COPE, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 4, 1919. Serial No. 301,771. 6 Claims. (Cl. 52—3.)

1. A detonating fuse having a detonating mixture comprising trinitrophenyl-methyl-nitramin and trinitrotoluene.

1,341,706. DEVICE FOR DESTROYING BOLL-WEEVIL MOTHS. DAVID D. DAILEY, Atmore, Ala. Filed Feb. 28, 1918. Serial No. 219,709. Renewed Apr. 3, 1920. Serial No. 371,144. 4 Claims. (Cl. 43—107.)

4. A device for catching boll weevil moths, including a standard having notches in the edges thereof, a series of hay supporting shelves projecting horizontally from the standard and having the inner ends thereof loosely received within the notches, hinges connecting the shelves to the standards at the mouths of the notches, eyes at the inner ends of the shelves, a plunger slidably mounted upon the standard, arms projecting laterally from the plunger and loosely received within the eyes of the shelves



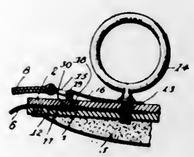
for agitating the shelves when the plunger is operated, and a sack adapted to be inverted over the standard and shelves to collect the moths.

1,341,707. LADDER. FRANK MONGIN DE SAUSSURE, JR., Greenville, S. C. Filed Dec. 1, 1919. Serial No. 341,567. 8 Claims. (Cl. 228—29.)



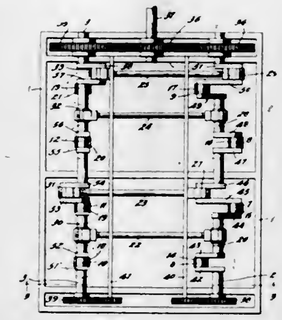
1. A ladder of the character described, including side rails, rungs pivotally connected to the side rails to permit the latter to swing toward and away from one another in parallel relation, and connections between the side rails for securing the same in various spaced positions between full open and closed positions.

1,341,708. SLED-PAD. JAMES DICKIE, Summerside, Prince Edward Island, Canada. Filed Feb. 24, 1919. Serial No. 278,975. 2 Claims. (Cl. 54—38.)



1. In a device of the character described comprising a padtree, a girth strap consisting of sections, the ends of said girth strap sections adapted to extend within said padtree and connected therewith, shaft bearing straps, plates arranged in said padtree, said plates formed with openings, clips having one end disposed within said plate openings, and terrets adapted to pass through the opposite ends of said clips for detachably connecting the shaft bearing straps and clips to the padtree.

1,341,709. CRANK-SHAFT CONNECTION FOR ENGINES. CHARLES B. DODGE and JAMES T. DODGE, Morse Bluff, Nebr. Filed May 31, 1919. Serial No. 301,049. 2 Claims. (Cl. 121—120.)

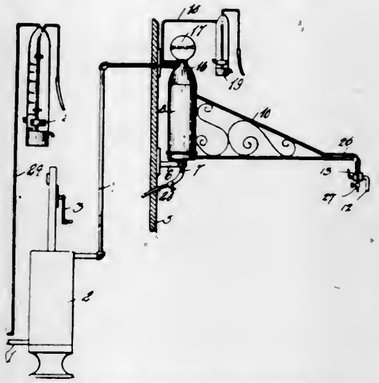


1. In an engine, two sets of parallel cylinders of four cylinders each, crank shafts for the cylinders, piston rod bearings, connecting rod bearings located between each piston rod bearing and its neighbor, and four reciprocating connecting rods connecting the crank shafts to synchronize the motion of said shafts, the connecting rods being arranged so that each connecting rod is always one quarter of a revolution removed in position from the neighboring connecting rod to give a balanced power delivery, the effect of motion of each connecting rod being exactly balanced by the motion of the other connecting rods.

1,341,710. SOLVENT FOR USE WITH PYROXYLIN AND COMPOSITIONS CONTAINING THE SAME. EDMUND M. FLAHERTY, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 11, 1918. Serial No. 253,526. 12 Claims. (Cl. 134—79.)

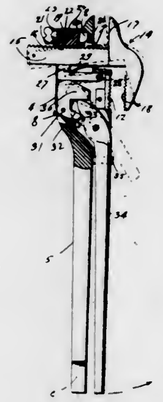
12. A composition comprising nitrocellulose, and a solvent mixture comprising amyl acetate, normal butyl alcohol and benzin.

1,341,711. DISPENSER. SIMÉON GAGNON, Montreal, Quebec, Canada, assignor of one-half to Alfred Pilon, Montreal, Quebec, Canada. Filed Aug. 17, 1918. Serial No. 250,317. 2 Claims. (Cl. 221—99.)



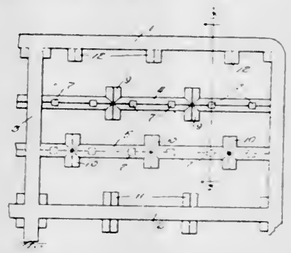
1. In a device of the character described including an auxiliary tank, a supply pipe leading to said tank, means for pivotally supporting said tank, a bracket carried by said tank, a discharge pipe carried by said bracket and communicating with said tank, an air supply pipe leading through said tank, said air supply pipe being supported upon said bracket substantially as and for the purpose specified.

1,341,712. WRENCH. JAMES GELL, Branford, Conn. Filed June 28, 1919. Serial No. 307,270. 2 Claims. (Cl. 81—85.)



3. In a wrench, a stationary jaw having a handle portion, a movable jaw slidably mounted through said stationary jaw and provided with a toothed shank, a pivoted member connected to said stationary jaw and adapted for engagement with said toothed shank, a cam member pivotally connected to said stationary jaw for engagement with said pivoted member, said cam member being provided with a cut out portion, and a lever having one free end for coöperation with said cut out portion of the cam member.

1,341,713. BATTERY-PLATE. OTTO P. HOFFMAN, Chicago, Ill. Filed May 24, 1919. Serial No. 299,453. 4 Claims. (Cl. 204—29.)



1. A storage battery plate comprising a peripheral rectangular frame, cross-bars dividing the frame into rectangular sections, and auxiliary bars spanning each section parallel to one side of the same to divide the section into panels, the auxiliary bars having transverse grooves, and active material filling the panels and the said grooves, whereby the active material in the grooves continuously connects the active material in the panels.

1,341,714. SPRING-BED. JAMES H. HOWER, New Stanton, Pa. Filed Feb. 5, 1919. Serial No. 275,277. 2 Claims. (Cl. 5—26.)

2. In a spring-bed device, a metal bracket having a projecting guide flange at its upper end, a comparatively

shorter guide flange on the lower end of said bracket, a reciprocating piston mounted in the bracket guide flanges, a cross-arm carried by the said piston, and having a pair of upturned flanges formed thereon adapted to engage



about the edges of a bed slat to prevent horizontal displacement of the same, and resilient means connecting the upper bracket flange, and the lower end of said piston.

1,341,715. BRIDLE. JAMES C. JARDINE and JAMES DICKIE, Summerside, Prince Edward Island, Canada. Filed Feb. 24, 1919. Serial No. 278,974. 1 Claim. (Cl. 54—10.)



A combined cheek strap and blind comprising a metallic frame consisting of a winged portion having the configuration of a blind and an integral vertical strap portion having the configuration of a cheek strap, a vertical strap section secured to said strap portion and extending parallel therewith, said vertical strap section being bent upon itself to form a loop at the upper end, a buckle secured within said loop, the lower end of said strap section being looped over and connected to said frame, a buckle secured within the lower strap section loop and a lower facing for said frame.

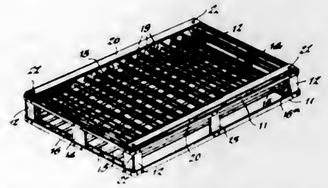
1,341,716. APPAREL. SARAH N. LEOPARD, Atlanta, Ga. Filed June 12, 1919. Serial No. 303,650. 1 Claim. (Cl. 2—144.)

Apparel of the character set forth, comprising a loose body covering under-garment adapted to extend from the bust to the legs, the lower end thereof being substantially tapered and closed at its apex with leg openings on opposite sides thereof, a corset cover garment surrounding the upper portion and secured at its upper end to the upper end of the garment, common trimming for both garments extending above the line of connection of said garments, common shoulder straps for both garments connected to the upper ends thereof, means carried by the lower portion of the corset cover garment to contract the same about the under garment substantially at the waist line of the wearer, and body encircling means substantially at the juncture of the garments and independent



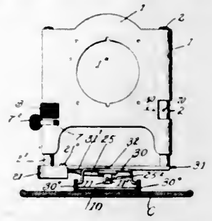
of the shoulder straps and passing beneath the arms of the wearer for contracting the said upper portion of the garment.

1,341,717. DISH-HOLDING TRAY OR BASKET. WILLIAM J. LYNCH, Buffalo, N. Y. Filed Nov. 28, 1919. Serial No. 340,991. 4 Claims. (Cl. 141—9.)



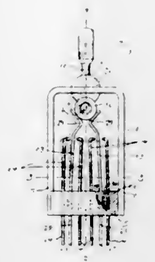
1. A dish holding tray comprising a main frame, transverse end members removably secured to the lower portion of said frame, longitudinal bars carried by said end members, longitudinal side members removably secured to the upper portion of said frame, and transverse bars carried by said side members.

1,341,718. CAMERA. CHARLES M. MARCH, Portland, Me., and CHARLES L. TIDD, Gardner, Mass. Filed June 12, 1917. Serial No. 174,373. 15 Claims. (Cl. 95—51.)



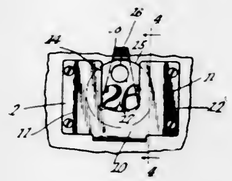
9. In a camera, in combination, an adjustable front having an alined folding position, an obstruction, a locking element normally maintained out of interfering position relative to said obstruction, a manually-operated device for adjusting said front and operatively connected to said locking element whereby to automatically move said locking element into interfering position relative to said obstruction upon adjustment of the front, said locking element remaining in interfering position so long as the front is disposed in any position other than its predetermined alined folding position, thereby to prevent improper folding of the front, and said front automatically returning said clocking element to non-interfering position upon restoration of the alinement of the front.

1,341,719. KEY-SWITCH. BYRON L. MOORE, Buffalo, N. Y. Filed Aug. 24, 1918. Serial No. 251,213. 3 Claims. (Cl. 179—176.)



1. In a key switch, the combination, with a frame and a cam actuating mechanism carried by the frame, of a block of insulating material carried by the frame, master springs fastened near their lower ends within the block and having their upper ends bent so as to be mechanically engaged by the cam actuating mechanism and be actuated thereby, anvil springs, each having the surface adjacent the master spring of small, superficial area as compared to the area of the master spring, said anvil springs being secured near their lower ends within the block, the upper ends of the anvil springs being bent toward the adjacent master springs so as to bring the upper end in close proximity thereto.

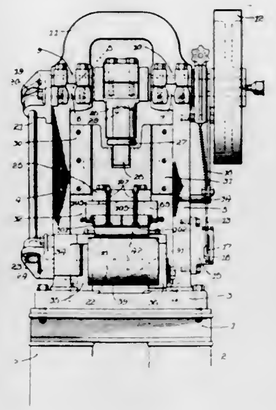
1,341,720. CHECK-HOLDER. JOHN T. OLIVE, Worden, Ill. Filed Jan. 26, 1920. Serial No. 354,083. 2 Claims. (Cl. 40—15.)



1. A holder for mine car checks comprising a blank section of sheet metal bent at rightangles at the sides thereof to form a relatively shallow casing having oppositely extending flanges for mounting the device on front of the car, the front portion being provided with a recess communicating with its upper edge and the bottom portion being formed with an integral extension bent rearwardly and upwardly to form a gripping tongue coöperating with the front portion to hold a check therein.

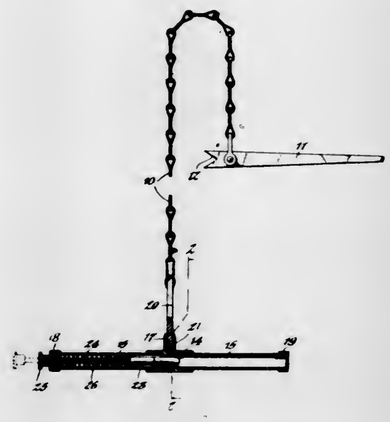
1,341,721. PRESS OR STAMPING-MACHINE. FRED M. OPITZ, Racine, Wis., assignor to Perfex Radiator Company, Racine, Wis., a Corporation of Wisconsin. Filed Oct. 11, 1918. Serial No. 257,765. 24 Claims. (Cl. 113—46.)

3. In combination, a stationary die having corrugations, a reciprocable die having a coöperating surface to form corrugations upon a strip of metal, a crank shaft for reciprocating said latter die, a countershaft geared to said crank shaft, a finger passing through said stationary die and adapted to engage the corrugations formed on said strip of metal, cam means on the countershaft for raising the finger lift the work off of the lower die and other



cam means for moving the said finger forward to advance said strip.

1,341,722. FISH-STRINGER. ALBERT N. PUTNEY, Syracuse, N. Y. Filed Oct. 21, 1919. Serial No. 332,353. 4 Claims. (Cl. 224—7.)

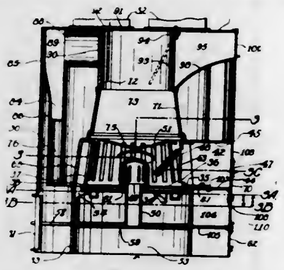


1. A fish stringer comprising a stringing line, a coupling hasp connected with said line and provided with an opening, a tubular cross bar provided between its ends with a transverse socket which receives said hasp, and a locking pin or catch slidable lengthwise in said bar and operable from the exterior of said bar and adapted to engage the opening of said hasp for detachably connecting the same with said bar.

1,341,723. HEATING APPARATUS. THEOSIS C. SEBRING, Kansas City, Mo. Filed Aug. 14, 1916. Serial No. 114,683. 5 Claims. (Cl. 126—99.)

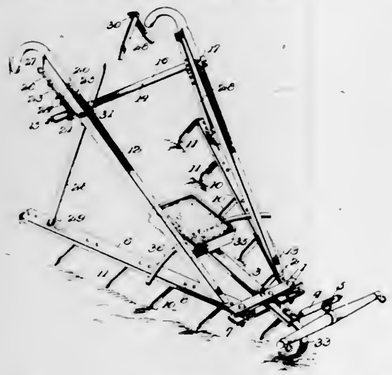
1. A furnace embodying a side wall grate, a bottom grate therein, an air dome on the bottom grate surrounded by the side wall grate and having air outlets in its side walls for the flow of air laterally to the side wall grate,

said dome having an air inlet pipe depending through the bottom grate, a closure for the bottom grate, a fuel reser-



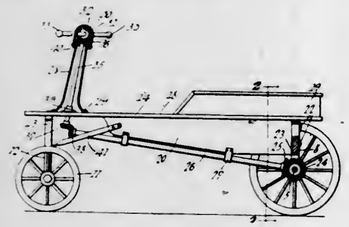
voir above the side wall grate, and a fire pot surrounding and spaced from the side wall grate for the circulation of the products of combustion and having an outlet therefor.

1,341,724. AGRICULTURAL IMPLEMENT. FRANK SHERWIN, Brookings, S. D. Filed Oct. 8, 1918. Serial No. 257,367. 4 Claims. (Cl. 97—10.)



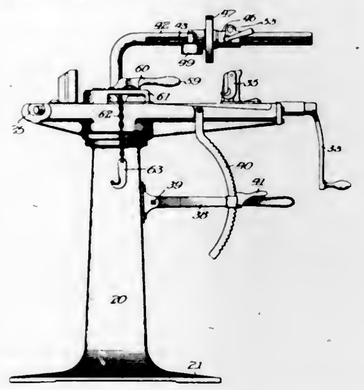
4. In a cultivator having tooth carrying beams, means mounting said beams at the forward end for opening and closing movement with respect to each other, a handle carried by each beam, means connecting said handles for opening and closing movement corresponding to the movement of said beams, and converging members, one connected with each beam and its respective handle and manually connected at the top to equalize the opening and closing movement of the beams and handles with respect to the vertical medial plane of the cultivator.

1,341,725. MANUALLY-PROPELLED WAGON. EARL THORN, Clearfield, Pa. Filed Nov. 5, 1919. Serial No. 335,850. 1 Claim. (Cl. 208—55.)



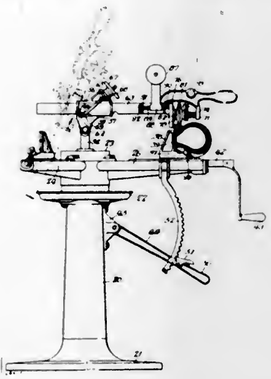
In a wagon, a body having a relatively narrow forward portion, rear wheels for supporting the rear portion of the body, pivoted front wheels having connection with the relatively narrow portion, a depending supporting member under the body, a power shaft secured to the supporting member and having connection with the rear wheels, a housing supported on the body, a vertical shaft disposed within the housing and having connection with the power shaft, a pinion on the upper end of the vertical shaft, a hollow head formed on the upper end of the housing, a pinion operating within the hollow head and coöperating with the pinion on the upper end of the vertical shaft, and operating handles having connection with the second mentioned pinion for transmitting rotary motion thereto.

1,341,726. TIRE-CHANGING MACHINE. IRA A. WEAVER and JOHN STERNAMAN, Jr., Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 6, 1916. Serial No. 124,011. 7 Claims. (Cl. 157—6.)



1. In a tire and rim manipulating device of the character described, the combination of a support, means on said support to center and fixedly hold a vehicle-wheel rim, means to operate said centering and holding means, a radial arm mounted on said support for rotation about the axis of the centered rim, means for adjusting the height of said arm, and one or more tools carried by said arm, substantially as described.

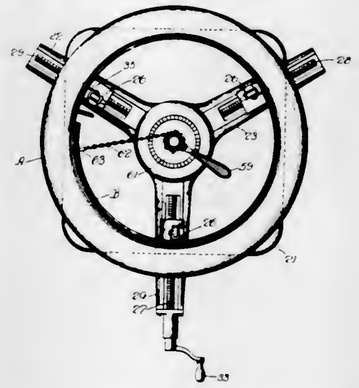
1,341,727. TIRE-CHANGER. IRA A. WEAVER, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 17, 1917. Serial No. 197,010. 17 Claims. (Cl. 157—6.)



1. In an appliance of the character described, the combination of a support, means to fixedly clamp a vehicle-

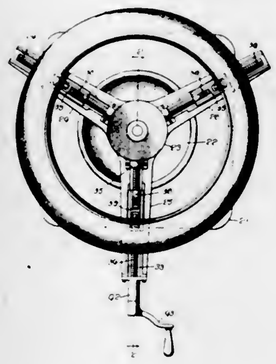
wheel rim or wheel on said support, a revoluble upright shaft coaxial with the rim or wheel, a radial arm mounted on said shaft and adapted to carry one or more tools, and means affording a sliding connection between said arm and shaft, substantially as described.

1,341,728. TIRE-CHANGING APPLIANCE. IRA A. WEAVER and JOHN STERNAMAN, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Original application filed Oct. 6, 1916, Serial No. 124,011. Divided and this application filed Feb. 20, 1919. Serial No. 278,234. 2 Claims. (Cl. 157—1.)



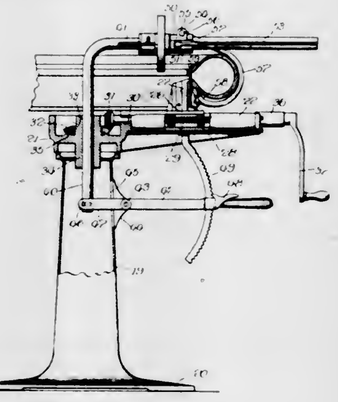
1. In an appliance of the character described, the combination of a support for a transversely-split rim, means to engage the rim near its joint and bring its ends into offset relation, and means to contract the rim when in such condition to facilitate the removal or application of a tire-casing, comprising a plurality of members adapted to engage the rim at intervals in its circumference, and means to simultaneously draw said members inwardly toward a common center, substantially as described.

1,341,729. TIRE-CHANGING MECHANISM. IRA A. WEAVER, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Original application filed Oct. 17, 1917, Serial No. 197,010. Divided and this application filed Feb. 20, 1919. Serial No. 278,235. 4 Claims. (Cl. 157—1.)



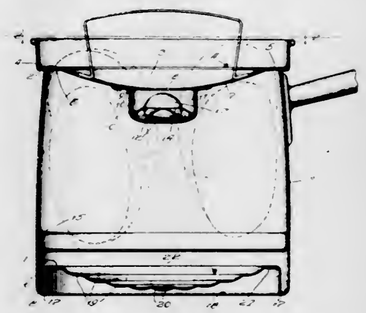
1. In an appliance of the character described, the combination of an upright standard, a support at the top of said standard, a plurality of members adapted to travel radially on said support, means to simultaneously contract or expand said members, and means on said members adapted to engage and overlie the inner face of the lower flange only of a transversely-split vehicle-wheel rim on the appliance, whereby the rim may be contracted and prevented from rising through the instrumentality of said flange-engaging means during the inward travel of said members, substantially as described.

1,341,730. TIRE-REMOVING APPLIANCE. IRA A. WEAVER and JOHN STERNAMAN, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Original application filed Oct. 6, 1916, Serial No. 124,011. Divided and this application filed July 14, 1919. Serial No. 310,863. 12 Claims. (Cl. 157—6.)



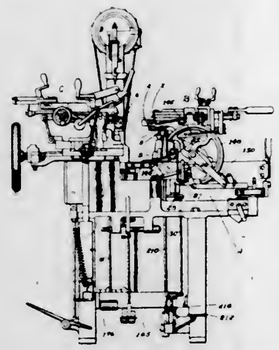
1. In a tire remover, the combination of means to fixedly hold a vehicle-wheel-rim, and a member mounted to rotate about the axis of the rim and engage the opposite side of the tire-casing adjacent to the rim to assist in freeing the tire-casing from the rim, substantially as described.

1,341,731. COOKING UTENSIL. OTTO R. BERGER, Chicago, Ill., assignor to Raymond J. Bischoff, Chicago, Ill. Filed July 23, 1917. Serial No. 182,161. 9 Claims. (Cl. 53—1.)



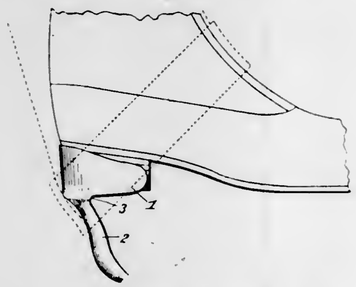
3. A bottom piece adapted for application to a cooking utensil having an outer hollow flange with its bottom edge substantially in a plane, and a central portion inclined downward from the inner flange wall to the center and terminating just above said plane adapted to form a space between this portion and the bottom of a vessel to which the bottom piece is attached.

1,341,732. LASTING-MACHINE. MATTHIAS BROCK, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 22, 1916. Serial No. 132,892. 12 Claims. (Cl. 12—14.)



1. A lasting machine having, in combination, a toe post, a treadle and connected mechanism to alternately raise the post and lower the post on successive actuations of the treadle, a heel post, an elevating treadle for the heel post, a locking pawl for said last named treadle arranged to hold the heel post elevated during the operation of raising the toe post, and means for automatically releasing the locking pawl upon the lowering of the toe post.

1,341,733. PROTECTOR FOR TROUSERS. ERNEST E. M. BULLOWA, New York, N. Y. Filed Jan. 8, 1919. Serial No. 270,237. 3 Claims. (Cl. 132—30.)

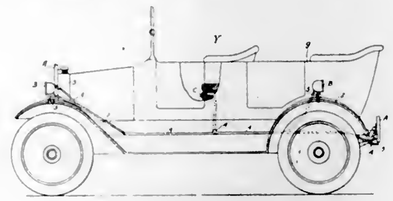


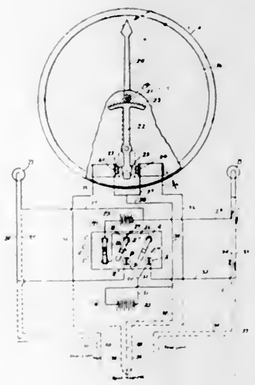
1. In a device of the kind described, a piece of friction reducing material conforming in curvature substantially to the shape of the outer heel portion of a boot or shoe, and adapted to extend below the lower edge thereof, and means carried by said piece of material for holding the same in operative position between said heel portion and a trouser leg.

1,341,734. METHOD OF OBTAINING A CONCENTRATED SO_2 SOLUTION. NIELS C. CHRISTENSEN, Salt Lake City, Utah, assignor of one-half to J. E. Barlow, Habana, Cuba, and one-half to Big Indian Copper Company, of State of Utah. Original application filed Sept. 1, 1916, Serial No. 118,156. Divided and this application filed July 3, 1917. Serial No. 178,442. 2 Claims. (Cl. 23—10.)

1. In a process in which a concentrated SO_2 solution is deprived of part of its SO_2 and is later caused to absorb the SO_2 so deprived, the step of replacing the losses of SO_2 to the system consisting in: causing the weakened solution to first absorb the relatively weak replacement SO_2, and then causing the absorption by the thereby strengthened solution of the relatively strong SO_2 gas previously taken from the solution.

1,341,735. ELECTRICAL SIGNAL SYSTEM FOR AUTOMOBILES. HARRY L. CORNELL, Binghamton, N. Y. Filed Feb. 14, 1916. Serial No. 78,132. 3 Claims. (Cl. 177—337.)





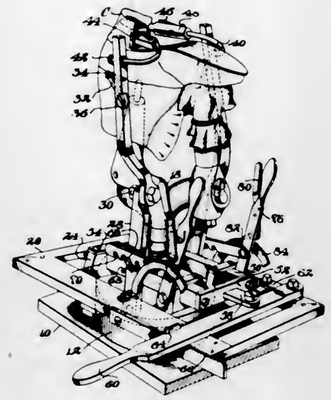
1. In an electric signaling system for vehicles, the combination of a pivoted direction indicator mounted on the vehicle, electrical mechanism for operating said indicator, a signal lamp on each side of the vehicle, a source of electrical energy for the indicator mechanism, a separate source of electrical energy for the lamps, a switch board on the vehicle, electrical circuits between the switch board, one source of energy and the indicator, circuits between the switch board, the other source of energy and the signal lamps, and movable contact members on the switch board for controlling the indicator circuit alone, and for closing the indicator circuit simultaneously through a selected signal lamp.

1,341,736. DENTAL-CEMENT-INJECTING TUBE. HENRY L. CRUTTENDEN, Northfield, Minn. Filed Apr. 26, 1917. Serial No. 164,650. 1 Claim. (Cl. 32—5.)



A collapsible dental cement injecting tube having a large opening at one end and an attenuated discharge nipple at its other end, said tube being formed and constructed of colored or tinted gelatin and being collapsible, substantially as described.

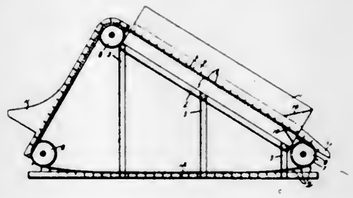
1,341,737. APPARATUS FOR COVERING THE HEELS OF SHOES. WILFRED J. DREY, Carlisle, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,368. 37 Claims. (Cl. 12—42.)



1. In an apparatus for covering heels attached to shoes, a shoe support, means for positively engaging the covering, and a support for the engaging means, one of said supports being movable to apply the covering to the heel.

18. In an apparatus for covering heels attached to shoes, a jack for the shoes, and means cooperating with the jack for inserting the edge of the covering material in the rand crease of a shoe to conceal said edge within the crease.

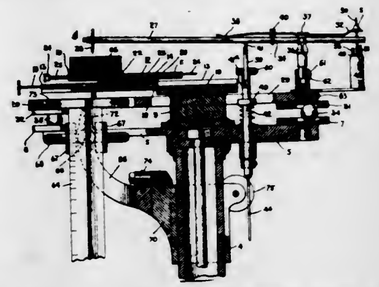
1,341,738. FRUIT-PEELING MACHINE. MELVILLE E. DUNKLEY, Kalamazoo, Mich. Filed Sept. 13, 1917. Serial No. 191,178. 4 Claims. (Cl. 146—14.)



4. In a structure of the class described, the combination with a furnace provided with an inclined bore extending therethrough, of means for heating said furnace, a conveyer provided with means for conveying fruit or vegetables along said bore, and means for protecting the said conveyer from the direct heat of the furnace.

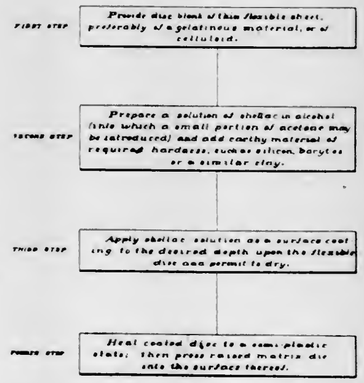
1,341,739. ETCHING-MACHINE. WILLIAM S. EATON, Sag Harbor, N. Y. Filed Jan. 24, 1919. Serial No. 272,842. Renewed Apr. 23, 1920. Serial No. 376,172. 14 Claims. (Cl. 33—24.)

1. A machine of the character described, embodying therein a movable support for a work tool or point, a work tool or point carried thereby, a work bed, means adapted to impart relative universal movement upon a single plane, to said support and said work bed, a member operative upon said support to move it away from said work bed, means whereby said member may be moved away from said support to permit said support to descend by gravity toward said work bed, and bring said work tool or point into operative engagement with a printing surface upon said work bed, and a resistance device operative upon said



support to control the descent thereof under gravity, whereby sufficiently forceful impact of said work tool or point with the printing surface, to mar same, is prevented.

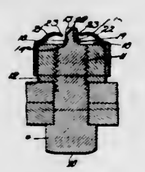
1,341,740. SOUND-RECORD TABLET AND METHOD FOR PRODUCING SAME. VICTOR HUGO EMERSON, New York, N. Y., assignor to Emerson Phonograph Co., Inc., a Corporation of New York. Filed May 10, 1916. Serial No. 96,490. 6 Claims. (Cl. 154—43.)



1. As an article of manufacture, a sound record having a base of flexible, colloidal material; a record material containing shellac and earthy materials integrally united to the surface of said base; and a sound record groove impressed into said material and said base.

3. The method of producing sound records which consists of applying a thin coat of a solution of shellac and earthy material to the surface of a celluloid record blank.

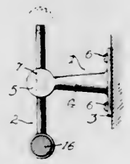
1,341,741. NUT-LOCK. WILLIAM F. EVANS, Philadelphia, Pa., assignor of one-ninth to George D. Carney, Chester, Pa., and one-ninth to Nicolo Fioliolo, New York, N. Y., and one-ninth to E. J. Arghis, Brooklyn, N. Y. Filed Mar. 28, 1919. Serial No. 285,788. 5 Claims. (Cl. 151—29.)



1. A nut lock including a bolt upon which the nut is screwed, said bolt having a cavity providing a shoulder

extending transversely to the length of the bolt; a cap having portions fitting said nut whereby relative rotation between the nut and the cap is prevented, said cap having a notch therein into which an angular portion of said bolt extends; and a tongue on said cap adapted to be forced into said cavity in the bolt; substantially as described.

1,341,742. ADJUSTABLE CURTAIN-ROD BRACKET. ROBERT E. FISHER, Chicago, Ill. Filed May 31, 1919. Serial No. 300,889. 6 Claims. (Cl. 156—24.)



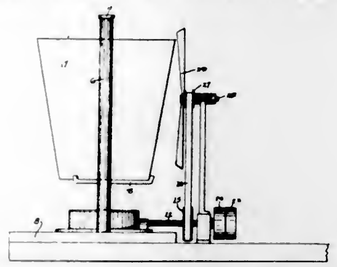
1. In a device of the kind described, a bracket comprising a mounting plate, a bracket extension projecting from said mounting plate, and a head portion on the end of said bracket member, said head portion having a vertical hole therethrough, and a thumb screw intersecting said hole, a curtain rod support adjustably carried by said bracket, said rod support comprising a stem slidable in said hole and adjusted to be clamped therein by said thumb screw, one end of said stem being removable from said hole to permit inverting of said support in said bracket, a cylindrical cup on the other end of said stem for receiving the curtain rod, a screw member projecting from said stem, said screw member threading into the base of said cup, said screw member adapted to interchangeably support different size cups.

3. In a device of the kind claimed, an integral bracket comprising a mounting plate, a bracket extension projecting from said mounting plate, and a head portion on the end of said bracket member, said head portion having a vertical hole therethrough and a thumb screw intersecting said hole, a curtain rod support adjustably carried by said bracket, said rod support comprising a cylindrical stem slidable in said hole and adapted to be clamped therein at any angle or any height of adjustment by said thumb screw, one end of said stem being freely removable from said hole to increase the range of vertical adjustment by the inverting of said support in said bracket, the other end of said cylindrical stem having a disk formation, a screw passing through a hole in said disk formation, said screw tapping into a cylindrical cup supported on said disk formation for receiving the end of the curtain rod.

6. In a device of the kind described, a bracket comprising a head portion having a vertical hole therethrough and a thumb screw intersecting said hole, a supporting member adjustably carried by said bracket, said supporting member comprising a straight stem slidable throughout its length in said hole and adapted to be clamped therein by said thumb screw, one end of said stem being freely removable from said hole to permit inverting of said supporting member in said bracket for the purpose of increasing the range of vertical adjustment of said supporting member, and socket means on the end of said stem for receiving a curtain rod or shade roller.

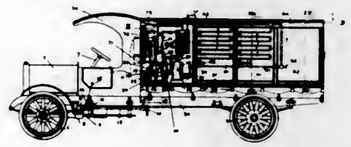
1,341,743. MACHINE FOR STIRRING MAPLE-SUGAR. MICHAEL HANAUER, Tolland, Mass. Filed Jan. 29, 1920. Serial No. 354,802. 2 Claims. (Cl. 259—88.)

1. A machine for stirring maple sugar comprising a base two vertical tubular posts mounted thereon, a yoke having downwardly extending ends entering the said tubular posts, blades secured to the underside of said yoke, a



receptacle into which the blades extend and means mounted on said base for supporting and rotating said receptacle.

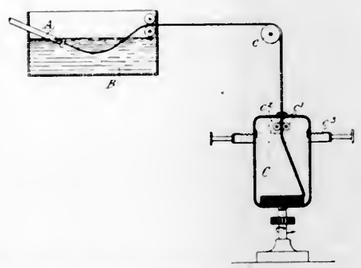
1,341,744. REFRIGERATOR-VEHICLE. ROBERT D. HATCH, San Francisco, Calif. Filed Nov. 6, 1918. Serial No. 261,335. 2 Claims. (Cl. 62—117.)



1. In combination with a motor-driven vehicle, an apparatus for evaporating and circulating a refrigerating fluid in a closed circuit, an apparatus for circulating a cooling fluid around a portion of the refrigerating apparatus, a radiator interposed in the cooling fluid apparatus, and a fan adapted to direct air around the radiator for cooling purposes while the vehicle is standing still.

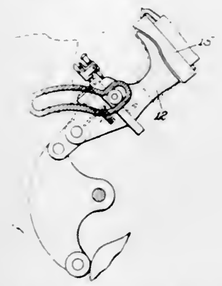
2. In a motor propelled vehicle a plurality of refrigerator compartments and means operated by the vehicle motor to induce the cooling of said compartments, including means for circulating and evaporating a refrigerating fluid in conduits through said compartments, and a radiator interposed in the said conduits exposed to air circulation for cooling the circulating fluid.

1,341,745. PROCESS FOR MANUFACTURING TUBULAR PRODUCTS OF CELLULOSE OR COMPOUNDS OF CELLULOSE. LEOPOLD HESSE, Oberbruch, near Aachen, Germany, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Filed June 21, 1916. Serial No. 105,058. Renewed Feb. 5, 1920. Serial No. 356,419. 1 Claim. (Cl. 18—54.)



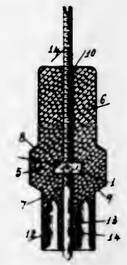
A process for manufacturing tubular cords of cellulose or cellulose-compounds, consisting in ejecting solutions of cellulose or cellulose compounds through elongated spinning slits into precipitating baths and rolling up the resulting ribbons or strips into endless spirals by spinning or twisting, substantially as set forth.

1,341,746. METHOD OF MAKING SHOES. JOHN J. HEYS, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 26, 1918. Serial No. 251,437. 9 Claims. (Cl. 12—142.)



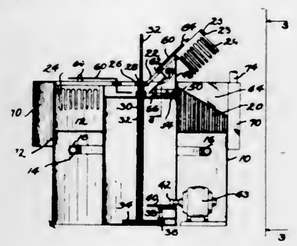
1. That improvement in methods of making turn shoes which consists in conforming the upper to the shape of a last which has the contour that it is desired to reproduce in the upper of the shoe, said operations including sewing the upper to the sole inside out, turning the shoe, and relasting the shoe, and thereafter withdrawing the second last and shaping the shoe bottom by direct pressure applied over substantially the entire shoe bottom simultaneously.

1,341,747. INSULATOR FOR SPARK-PLUGS. JAMES INGELS, Springfield, Ill. Filed Nov. 28, 1919. Serial No. 341,081. 2 Claims. (Cl. 123—169.)



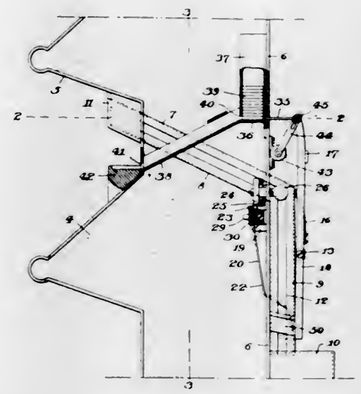
1. An insulator comprising a body; an annular terminal member; a central member within the annular terminal member; a pocket adapted to hold a stationary electrode-adjusting device; and a central bore extending through said body and through said central member.

1,341,748. AUTOMATIC COOKER. JOSEPH H. JACOBS, Denver, Colo. Filed July 9, 1919. Serial No. 309,646. 9 Claims. (Cl. 53—7.)



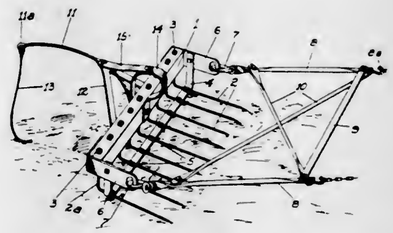
1. In an automatic cooking apparatus, a circular trough, rotary arms having curved fingers thereon to carry articles to be cooked through a fluid in said trough and to lift said articles from the fluid.

1,341,749. COIN-DISPENSING DEVICE. OTTO JAEGER, Elkins Park, Pa., assignor to Harry S. Kelsey, Boston, Mass. Filed Dec. 20, 1917. Serial No. 208,034. 3 Claims. (Cl. 194—9.)



1. The combination in a coin-controlled dispensing device, comprising a slotted gravity chute, of a manually movable pivoted member and a coin actuated spring member, each having a part entering the slotted chute, one above the other, an electric circuit including a signal operated thereby, means to open and close said circuit, actuated by said spring member when moved from normal position to release and deliver a coin to said manually movable pivoted member, a supplemental coin receiver, means controlling the discharge of coins therefrom, said means being operatively connected to and actuated by said first mentioned manually movable pivoted member whereby corresponding coins or tokens may be discharged from both of said receivers simultaneously.

1,341,750. FORK-SCRAPER. JOHN H. JOHNSON, Lemoore, Calif. Filed July 28, 1919. Serial No. 313,738. 2 Claims. (Cl. 37—40.)

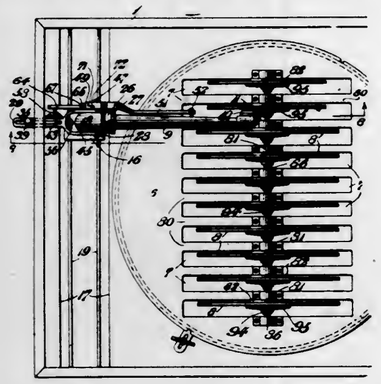


1. A scraper comprising a frame, such frame having a relatively high main transverse beam and a bar positioned forward of and below the same, a plurality of round prongs mounted at right angles to the bar and passing thereunder and being each removably secured thereto, right angled extensions formed with the prongs and extending upward through the beam, the upper ends of such extension being threaded, and nuts on the same impinging against the upper and lower faces of the beam.

1,341,751. TALKING-MACHINE. MAX KRAUSS, Philadelphia, Pa. Filed Dec. 13, 1919. Serial No. 344,622. 13 Claims. (Cl. 274—10.)

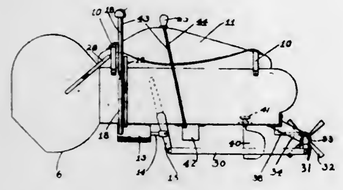
1. In a sound-reproducing machine of the character described,—a group of independently operative revoluble

records disposed in adjacent parallel planes upon a common axis of rotation,—a motive mechanism for operating any one of the records of the group independently of all



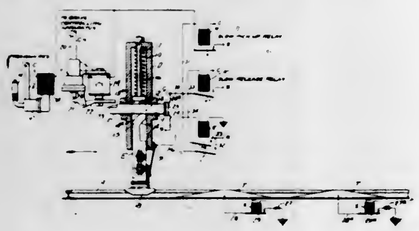
of the other records,—and a manual lever control extending externally of the casing for operating said motive mechanism.

1,341,752. LIFE-SAVING DEVICE. FEODOSY LAVRYK, Chicago, Ill. Filed Dec. 11, 1919. Serial No. 344,080. 2 Claims. (Cl. 9—18.)



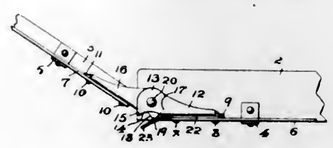
1. A life preserver comprising a main casing, a subsidiary casing, a rubber sheet apertured to receive the head of the user separating said casings, an air bag on said main casing, and a manually operable pump adapted to supply air to said air bag and subsidiary casing.

1,341,753. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Edgewood borough, Pa., assignor to the Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 16, 1917. Serial No. 168,946. 8 Claims. (Cl. 246—181.)



8. In combination, a railway vehicle, vehicle-governing means thereon, an operating member for said vehicle-governing means on the vehicle, a trip member for actuating and operating member but normally disconnected therefrom, an electromagnetic device controlling said operating member to operatively connect said operating member with said trip member, spaced trips located in the trackway, each adapted to actuate said trip member, and a slow-acting electromagnetic device controlling said electromagnetic device.

1,341,754. BAG-FRAME HINGE. WILLIAM A. LOTZ, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Jan. 28, 1918. Serial No. 214,085. 1 Claim. (Cl. 16—11.)



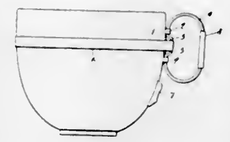
In combination with the frame-sections of a bag-frame, a hinge comprising a pair of hinge-plates, means for securing the respective hinge-plates to the respective frame-sections, marginal reinforcing ribs connected with and extending longitudinally the entire length of each hinge-plate, said ribs having enlarged portions providing pivot-ears, the ears of one hinge-plate being in registration with the ears of the other hinge-plate, each ear having a convexly formed marginal portion, a concavely formed marginal portion, and a cam-projection, a pivot-pin for pivotally connecting said ears, a spring-plate upon one of said frame-sections and beneath one of said hinge-plates, and an engaging member connected with said spring-plate, said engaging member being adapted to be brought into separable retaining engagement with the cam-projections of the other hinge-plate, and a separating collar mounted upon said pivot-pin.

1,341,755. WELL-SCREEN. WILLIAM E. MINTON, Kansas City, Mo. Filed Aug. 12, 1918. Serial No. 249,602. 4 Claims. (Cl. 166—7.)



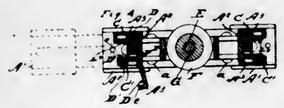
1. A well screen, including an outer and an inner pipe spaced apart, and fixed in their relation to each other, each of said pipes being provided with perforated sections and intervening blank sections, the perforated sections of the respective pipes being arranged in staggered relation, screening material within the space between said pipes and a means whereby the inner pipe may be withdrawn from the other.

1,341,756. DETACHABLE HANDLE FOR TEACUPS, SAUCEPANS, AND THE LIKE. JOHN PIERRE MORINE, Trentham, New Zealand. Filed Apr. 15, 1920. Serial No. 374,158. 2 Claims. (Cl. 65—13.)



1. An attachment for the purpose specified comprising connecting bars with hooked ends; grips with portions of their inner sides bent inward engaged in the hooked ends of the connecting bars; a band with its ends secured to the inwardly bent portions of the grips, passing around the article and means for securing the outer sides of the grips together.

1,341,757. MECHANIC'S TOOL. ALEXANDER OZEROWICZ, Detroit, Mich. Filed Feb. 6, 1919. Serial No. 275,396. 6 Claims. (Cl. 33—191.)



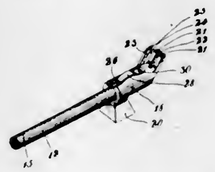
1. A device of the character described, the combination of a frame having a pair of members pivoted thereto, a plurality of adjustable legs carried by the members, a rod having a spiral groove extending from the frame between the members, a nut mounted upon the rod, a ball carried by the nut and projecting into the spiral groove in the rod, a slidable frame sleeved upon the rod and embracing the nut, whereby it may travel therewith along the rod, and links connecting the slidable frame with the respective members of said first named frame.

1,341,758. VARIABLE-CAMBER RIB FOR AEROPLANE-WINGS. HUMPHREY FRANCIS PARKER, Dunedin, New Zealand. Filed July 17, 1919. Serial No. 311,432. 19 Claims. (Cl. 244—31.)



1. A variable camber rib for aeroplane wings having front and rear spars, comprising a flexible body portion having its forward end fixed to said front spar, a rigid tail-portion having a slidable and oscillatable relation to said rear spar, said rigid tail-portion being connected with said flexible body portion whereby flexing of the latter produces an oscillation of the rigid tail-portion.
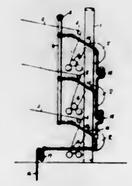
1,341,759. COMBINATION IMPLEMENT. PER A. PETERSON, New York, N. Y. Filed Aug. 26, 1919. Serial No. 320,025. 4 Claims. (Cl. 7—1.)



1. In a device of the class described, the combination with a handle having a straight cylindrical shank of uniform thickness, of a head slidable on said shank, means for maintaining said head in either of two definite positions on said shank, a cutter carried by said head, and means for guiding said cutter laterally.

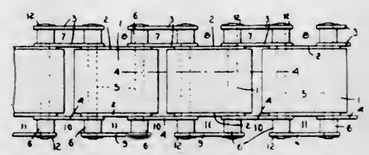
2. In a device of the class described, the combination with a handled cylindrical lever containing a longitudinal slot in one side and indentations formed in the bottom of the slot approximately at its ends, of a head slidable on said lever, a spring actuated detent carried by said head engageable in either of the mentioned indentations, and a fulcrum for said lever formed with said head.

1,341,760. VAPORIZING ATTACHMENT. TURNER T. POPE, Houston, Tex., assignor of one-half to Marcellus E. Foster, Harris county, Tex. Filed July 16, 1917. Serial No. 180,853. Renewed Apr. 8, 1920. Serial No. 372,318. 7 Claims. (Cl. 91—44.)



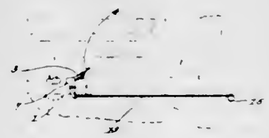
7. An attachment for printing presses including a vapor conduit arranged to project vapor against the sheet of paper passing through the press, and means arranged to project vapor against an edge of the paper while in a roll before being unwound.

1,341,761. TRACTION-CHAIN FOR CATERPILLAR-TRACTORS AND THE LIKE. FRED A. PUTNAM and ORLEY C. REYOUM, Keene, N. H., assignors to F. A. Putnam Manufacturing Company, Keene, N. H., a Corporation of Massachusetts. Filed June 26, 1919. Serial No. 306,974. 6 Claims. (Cl. 305—10.)



1. A chain for caterpillar tractors and the like comprising a plurality of tread members each having two projections extending laterally from each side thereof, and a pair of links connecting the opposed projections of one tread member to opposed projections to the next adjacent tread member, said projections and links forming a sprocket-receiving portion at each side of the chain.

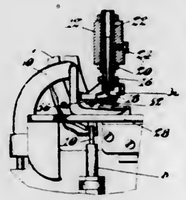
1,341,762. CARBURETER CONTROL. FRED ROSS, Papillion, Nebr. Filed Nov. 5, 1917. Serial No. 200,471. 1 Claim. (Cl. 123—98.)



In combination with a carbureter whose stem carries a hub having a lateral arm, an upstanding nose, and a

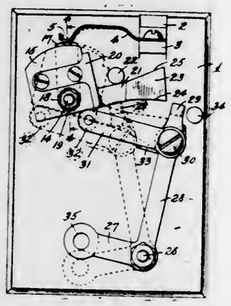
depending split extension, and a set screw through the legs of the extension; a plate adapted to lie against the nose, bub, and extension and to extend part way along the arm, one end having an angular flange hooking over the nose and arm and its body having holes whereof one receives said set screw, and a rod engaged with another hole and led to a distant point.

1,341,763. EYELETING-MACHINE. FRED A. RUMNEY, Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 22, 1916. Serial No. 138,384. 12 Claims. (Cl. 218—15.)



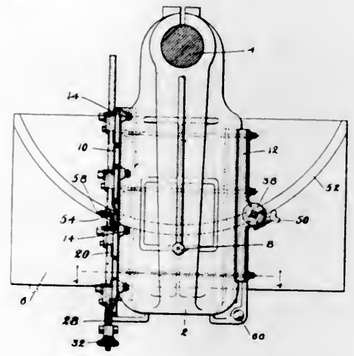
8. In a machine for setting blind or invisible eyelets, setting mechanism including an inserting tool and a clenching tool, the latter having a setting shoulder formed and arranged to enter a hole in a layer of the work, a punch and a carrier therefor movable relatively to the clenching tool, and an abutment carried by said carrier to sustain the clenching tool against the pressure of the eyelet, said punch being adjustable independently of the abutment.

1,341,764. SWITCH-OPERATING MECHANISM. THEODORE H. SCHUTT, Cleveland, Ohio, assignor to The Russ Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 18, 1916, Serial No. 85,174. Renewed Mar. 27, 1920. Serial No. 369,442. 2 Claims. (Cl. 200—67.)



1. Switch mechanism comprising a plate, a fixed contact carried thereby, a switch block pivotally mounted upon said plate and having a contact segment shiftable by movement of said block into and out of contact relation with the fixed contact, a trip arm extending from said switch block, a lug carried by the trip arm and having upper and lower faces, an actuating lever, spring actuated means thereon coöperating with the switch block, and a lug carried by the actuating lever and adapted to engage the lower face of the trip arm lug until the spring actuated means is beyond the pivot of the switch block in position to throw the switch and to then move off from said face and release the switch block, and on the reverse movement to engage the upper face of the trip arm lug and hold the switch against actuation until the spring actuated means is on the opposite side of the switch block pivot in position to throw the switch.

1,341,765. BLOCK-RESURFACING MECHANISM. RALPH C. SIMMONS, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 17, 1916. Serial No. 131,933. 35 Claims. (Cl. 164—34.)



1. In a machine of the class described, the combination with a presser member and a cutting block relatively movable from and toward each other in a direction to perform a cutting operation, of means arranged to be operated by the presser member and the block during such relative movement and to be moved in a direction transverse to the direction of said movement for resurfacing the block.

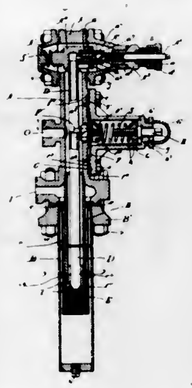
2. In a machine of the class described, the combination with a presser member and a cutting block relatively movable from and toward each other in a direction to perform a cutting operation, of a block resurfacing tool mounted on the presser member, and means for causing said tool to move in a direction substantially parallel to the plane of the working face of the block upon a relative cutting movement of said member and block in the first-mentioned direction.

3. In a machine of the class described, the combination with a presser member and a cutting block relatively movable from and toward each other in a direction to form a cutting operation, of a block resurfacing tool, and connections between said tool and the presser member constructed and arranged to cause the tool to move in a direction crosswise of the block upon a relative cutting movement of the member and the block in the first-mentioned direction.

4. In a machine of the class described, the combination with a presser member and a cutting block relatively movable from and toward each other in a direction to perform a cutting operation, of a block resurfacing tool, and connections between said tool and the presser member constructed and arranged to cause the tool to be moved in a direction substantially parallel to the plane of the working face of the block by engagement of the tool with the block in a relative cutting movement of the tool and the block in the first-mentioned direction.

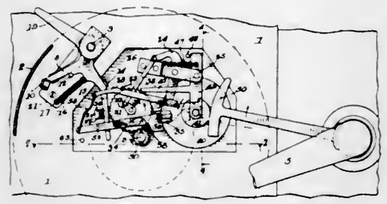
5. In a machine of the class described, the combination with a presser member and a cutting block relatively movable in a direction to perform a cutting operation, of a block resurfacing tool, and connections between said tool and the presser member comprising links arranged with reference to the direction of said relative movement of the presser member and the block to cause the tool to be moved by engagement with the block in a direction transverse to said direction of relative movement.

1,341,766. AUTOMATIC EXPANSION-VALVE. WILLIAM S. STAIR, Brooklyn, N. Y., assignor to Shipley Construction and Supply Company, Brooklyn, N. Y. Filed Nov. 6, 1919. Serial No. 336,200. 6 Claims. (Cl. 50—23.)



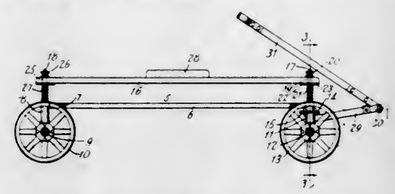
1. In an automatic expansion valve, the combination of a valve casing; an elastic flexible tube within the valve casing secured at the one end to the casing and adapted to offer spring yielding resistance to pressure tending to flex or bend it laterally out of is normal or neutral position; a valve seat body mounted on the free extremity of the tube and provided with an orifice communicating with the interior of same; a valve mounted in the valve casing adapted to register with and control the discharge end of the orifice through the valve body; an inlet through which the fluid under pressure passes into the lower open end of the tube and up through the same into, and out from the discharge end of, the orifice through the valve seat body; and an outlet in the valve casing and means controlled by the outlet pressure to laterally flex or bend the tube in a direction to move the valve seat body away from the valve point and thus increase the flow of fluid under pressure through the valve whenever and so long as the pressure on the outlet side of the valve is below the normal outlet pressure.

1,341,767. AUTOMATIC STOP FOR SOUND-REPRODUCING MACHINES. OLE O. STORLE, Tacoma, Wash. Filed Oct. 24, 1919. Serial No. 333,016. 7 Claims. (Cl. 74—46.)



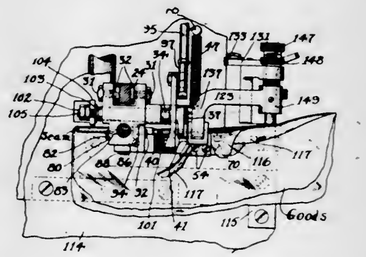
1. In an automatic stop for sound reproducing machines the combination with a brake, means tending to apply the brake and means for releasably holding the brake in off position, of a longitudinally reciprocative brake releasing arm shiftable laterally into and out of operative position, means actuated by the turn table spindle for reciprocating the brake releasing arm and shifting it periodically into operative position, a pivoted drag arm connected by a link with the brake releasing arm, a friction wheel with which the drag arm is adapted to engage, and a friction segment connected with the stylus arm and adapted to rotate the friction wheel and shift the brake releasing arm out of operative position when the friction wheel is rotated by the inward movement of the stylus arm.

1,341,768. CHILD'S VEHICLE. GEORGE W. WATSON, Boston, Mass. Filed Sept. 12, 1918. Serial No. 253,830. 3 Claims. (Cl. 208—165.)



1. A child's vehicle having, in combination, a front axle, a rear axle, wheels mounted upon said axles, a body consisting of a rear bolster fastened to said rear axle, another bolster fastened to said front axle, a board extending longitudinally of said vehicle and rigidly fastened to said rear bolster, said front bolster being rotatably mounted on said board, a seat extending longitudinally of said vehicle and terminating at its opposite ends above said front and rear bolsters, a bolt extending from said front bolster through said seat, another bolt extending from said rear bolster through said seat and springs encircling each of said bolts and interposed between said seat and board, whereby a combined vertical and lateral movement may be imparted to said seat.

1,341,769. METHOD OF MAKING TRIPLE SEAMS. ALBERT H. WEIS, Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation, a Corporation of Delaware. Original application filed July 30, 1918, Serial No. 247,383. Divided and this application filed May 28, 1919. Serial No. 300,322. 8 Claims. (Cl. 112—262.)

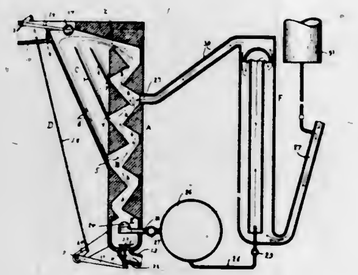


1. The method of making a triple seam, which consists in first folding the edge of the work in substantial parallelism with the body of the work, then after such folding trimming such folded edge, then infolding such trimmed edge by subjecting it to a movable pressure, and then stitching the seam.

1,341,770. APPARATUS FOR MINERAL SEPARATION. WILLIAM W. WILSON, Los Angeles, Calif. Filed July 26, 1915. Serial No. 42,036. 4 Claims. (Cl. 83—85.)

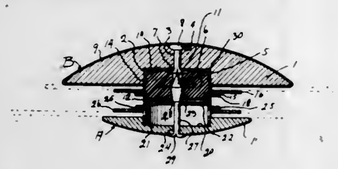
3. In apparatus of the character disclosed, a casing provided with an upright tortuous passage therein and being provided at the upper end of said passage with a discharge passage disposed approximately laterally with respect to the upright passage and having an outlet communicating with the discharge passage through which effectually floated mineral particles are adapted to pass.

said casing having a series of passages each communicating with the upright passage and the discharge passage, means to supply ore to the upright passage, means for causing levitation of mineral particles of the ore and the



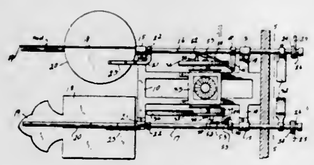
passage of said effectually floated particles through the discharge passage, said last named passages acting to return ineffectually floated particles from the discharge passage to the tortuous passage.

1,341,771. BUTTON. CHARLES W. G. ALLENDER, Washington, Pa., assignor of one-fourth to Louis C. Rasel, Washington, Pa. Filed Jan. 26, 1920. Serial No. 354,025. 7 Claims. (Cl. 24—217.)



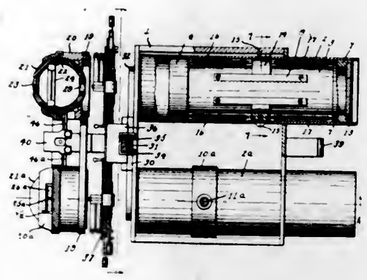
4. A button of the class described comprising two separable members including a head, a hollow member carried by the head of one of the members, a body of yieldable material arranged within said hollow member, said body having a restricted opening, an outstanding shank carried by the head of the second separable member and provided with a spear head adapted for insertion within the opening in the yieldable body.

1,341,772. RAILWAY-SIGNAL. BERT E. ANDRESS, Port Allegany, Pa. Filed Jan. 24, 1920. Serial No. 353,846. 5 Claims. (Cl. 246—14.)



4. A railway signal of the character described comprising a horizontally disposed supporting frame, a rock shaft mounted therein, the extremity of the rock shaft carrying a danger signal target and a clear signal target disposed at right angles to each other, means urging the rock shaft to a position to display its danger signal target, an angular arm mounted upon the rock shaft, extending across the frame, and connected to one of said targets, said arm constituting a stop limiting the rotation of the rock shaft.

1,341,773. REFRACTIONAL DEMONSTRATING DEVICE. ALBERT ANGEL, Cleveland, Ohio. Filed Dec. 5, 1919. Serial No. 342,647. 10 Claims. (Cl. 35—16.)

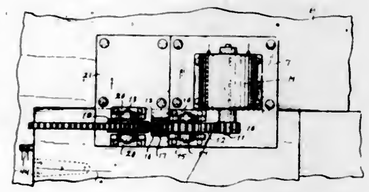


1. A lens demonstrating device comprising a supporting member before which a lens may be placed, said member being provided with a simulation of an eye including an adjustable diaphragm and with means to show an image projected through said lens and simulation.

1,341,774. METAL ALLOY. CHRISTIAN BERGH BACKER, Montreal, Quebec, Canada. Filed Dec. 30, 1918. Serial No. 268,923. 3 Claims. (Cl. 75—1.)

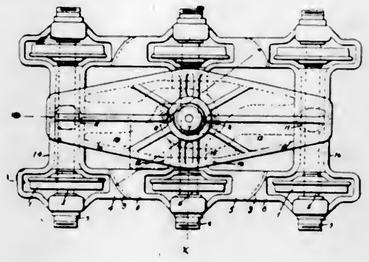
1. An alloy consisting of not less than 85% and not more than 98% of magnesium, not less than 1½% and not more than 14% of aluminum and not less than ¾ of 1% nor more than 6% of zinc.

1,341,775. DOOR-OPERATING MECHANISM. ARTHUR F. BOWERS, Milwaukee, Wis. Filed Oct. 4, 1916. Serial No. 123,626. 1 Claim. (Cl. 268—9.)



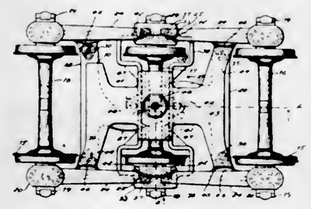
The combination with a wall structure having an opening therein, of a door hingedly connected thereto for closing the opening, a base plate secured to the wall structure adjacent the door opening, a motor mounted on said base plate, two pairs of spaced apart bearing members mounted on said base plate, a pinion gear fixed to the end of the drive shaft of said motor, an idler gear journaled between one pair of said bearing members and in mesh with said pinion gear, a grooved wheel journaled between the other pair of said bearing members and having its periphery spaced a short distance from that of the idler gear, a curved rack member passed between the idler gear and the grooved wheel and having its inner tooth surface in mesh with the idler gear and its rear plain surface guided in the groove of said grooved wheel, means pivotally securing the inner end of said rack to the door, an electrical circuit for operating the motor in either direction to open and close the door, and means in said circuit and operable when the door reaches either of its limits of movement whereby to break the circuit and stop the motor.

1,341,776. RAILWAY-CAR TRUCK. GEORGE A. BOYDEN, Jr., and JOHN C. BOYDEN, Baltimore, Md. Filed May 22, 1919. Serial No. 298,953. 6 Claims. (Cl. 105—166.)



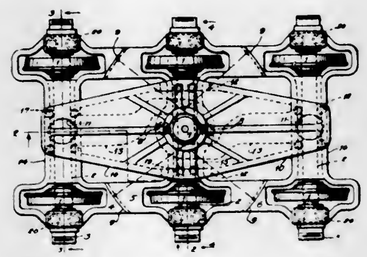
2. The method in car truck operation consisting in the pilot member controlling the position of the central member without affecting the trailer member, irrespective of the direction of movement of truck on the track.

1,341,777. RAILWAY-CAR TRUCK. GEORGE A. BOYDEN, Jr., and JOHN C. BOYDEN, Baltimore, Md. Filed Aug. 5, 1919. Serial No. 315,427. 6 Claims. (Cl. 105—166.)



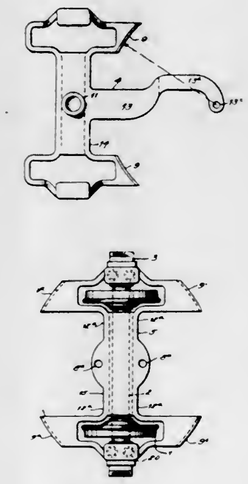
1. The herein described method, of coördinating horizontally the journals of a six wheel truck comprising a coördinating plate and of equalizing the vertical stresses upon said journals, which consists in moving the wheels by the rails to conform the journals to the contour of the latter, shifting the pilot and trailer journals angularly to approximate parallelism with the radii of curvature of the rails, coördinately moving the central journals angularly by said coördinating plate, and transmitting to said journals through said coördinating plate vertical load stresses which are equalized.

1,341,778. RAILWAY-CAR TRUCK. GEORGE A. BOYDEN, Jr., and JOHN C. BOYDEN, Baltimore, Md. Filed Feb. 21, 1920. Serial No. 360,481. 5 Claims. (Cl. 105—166.)



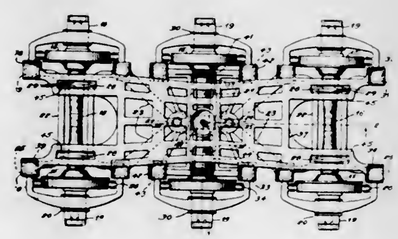
1. The herein described method of relieving the vertical spring stresses upon the wheels of a truck, consisting in relieving the spring stress from the wheel subject to abnormal rail surface or depression and transmitting it to the remaining wheels of the truck.

1,341,779. RAILWAY-CAR TRUCK. GEORGE A. BOYDEN, Jr., and JOHN C. BOYDEN, Baltimore, Md. Filed Feb. 21, 1920. Serial No. 360,482. 13 Claims. (Cl. 105—166.)



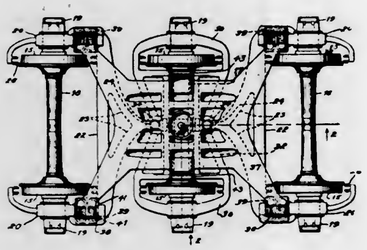
3. The herein described method of assembling the members of a six wheel car truck comprising a central and end members and a coördinating member, which consits in assembling said central and end members each with its correspoding journal boxes, journals and wheels, afterward pivotally connecting said central member to each of said end members and finally bringing said coördinating member into engagement with said central and end members.

1,341,780. RAILWAY-CAR TRUCK. GEORGE A. BOYDEN, Jr., and JOHN C. BOYDEN, Baltimore, Md. Filed Mar. 17, 1920. Serial No. 366,477. 7 Claims. (Cl. 105—166.)



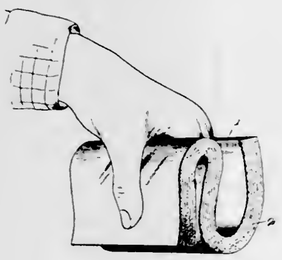
1. In six wheel trucks for railway transportation, the combination of three journal members, each end member being mounted on a pivot on the near side of the central member, whereby each end member moves only angularly about said pivot.

1,341,781. RAILWAY-CAR TRUCK. GEORGE A. BOYDEN, Jr., and JOHN C. BOYDEN, Baltimore, Md. Filed Apr. 6, 1920. Serial No. 371,664. 6 Claims. (Cl. 105—166.)



1. In a six wheel truck for railway transportation, the combination with three journal members, each end member being connected to the near side of the central member by a ball and socket joint, whereby each end member moves only angularly about said joint.

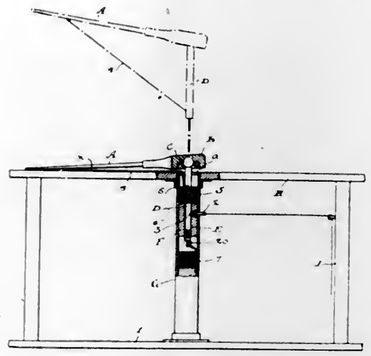
1,341,782. BOOK OR PAD. SAMUEL E. BRICK, Salina, Kans. Continuation of application Serial No. 274,556, filed Feb. 1, 1919. This application filed Apr. 26, 1919. Serial No. 292,956. 4 Claims. (Cl. 281—21.)



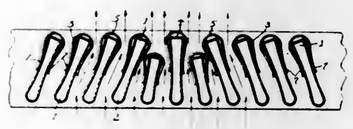
1. A series of sheets or leaves lying one upon the other and bound together on an edge by a flexible, elastic, yieldable, dry and non-tacky homogenous binder containing rubber which is adhesively attached to the edges of the sheets but leaving some parts of the edges free, whereby the binder between any adjacent sheets may be stretched slightly to permit of inserting additional sheets loosely between the bound sheets, any one or more sheets may be torn from the binder without substantially injuring the binding of the remaining sheets, and the series may be laid open flat at any point without substantially injuring the binding of the sheets, the binding being capable of being decidedly flexed without substantial injury thereto.

1,341,783. SAFETY DEVICE FOR HEAVIER-THAN-AIR BODIES. EGERTON RYERSON CASE, Toronto, Ontario, Canada. Filed Feb. 25, 1918. Serial No. 219,021. 13 Claims. (Cl. 244—21.)

1. The combination with a heavier-than-air body, of a gyratable device suitably shaped to offer resistance to the air, and means whereby said device is actively associated with said body and assumes the most efficient angle to the vertical while it is caused to gyrate by the air resistance when said body falls, and so develop dynamically buoyant power which may automatically vary as the rate of the descent of the said falling body may vary.



1,341,784. AUTOMOBILE-RADIATOR. JOSEPH CLISH, Iron Mountain, Mich. Filed May 20, 1918. Serial No. 235,496. 3 Claims. (Cl. 257—129.)



1. In combination with a radiator water tube, having inwardly bent side walls, a spring clip having horizontally spaced arms engageable with said walls to hold said walls in inwardly bent condition and permit the walls to bend or buckle and expand.

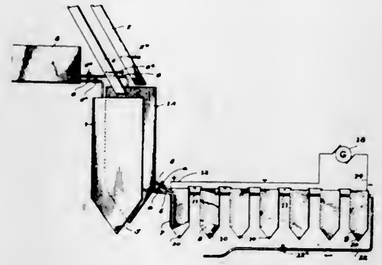
1,341,785. MATCH-LIGHTER. JOHN A. CUNNINGHAM, Bethlehem, Pa. Filed Nov. 10, 1919. Serial No. 336,971. 1 Claim. (Cl. 67—6.)



In a device of the class described, a relatively long tubular body portion having an opening formed at one end thereof, a pivoted member having a right angled end provided with a serrated surface, supported at one end of the body portion, the right angled end normally extending through the opening, means for forcing a match into engagement with the serrated surface to move the right angled end from the opening, and means for returning the match moving means.

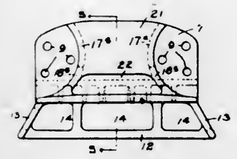
1,341,786. PROCESS OF RECOVERING COPPER FROM ITS ORES. CHARLES JOSEPH ALBERT DALZIEL, London, England. Filed Sept. 24, 1918. Serial No. 255,469. 7 Claims. (Cl. 204—15.)

1. The herein described process of extracting copper from its ores which consists in supplying to a preparatory vessel finely crushed ore and an acid solution, in such proportions as to produce a flowable pulp, forming the said ore and solution into a flowable pulp by aeration-agitation in said vessel, passing the pulp of liquor and ore once only



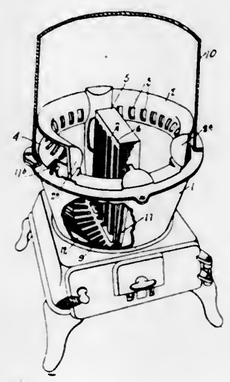
through a series of electrolytic cells separate from said preparatory vessel, while preventing sedimentation in said cells by introducing a blast of air at the lower part of each of said cells, and continuously discharging the substantially barren pulp from the last of said cells.

1,341,787. WRECKING, POLING, WIRING, LIFTING, AND TRUCK CARRYING IRON FOR RAILROAD-CARS. ULYSSES S. DRAYER, Altoona, Pa. Filed Aug. 30, 1919. Serial No. 320,927. 10 Claims. (Cl. 105—404.)



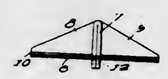
2. A wrecking iron for railway cars comprising a body formed for attachment to a car underframe and having a horizontal outwardly projecting flange near its bottom forming a jacking seat, said horizontal flange being provided with load wiring openings.

1,341,788. HEATING DEVICE. ALBERT M. DUTTWEILER, Cambridge City, Ind. Filed Jan. 19, 1918. Serial No. 212,561. 9 Claims. (Cl. 126—146.)



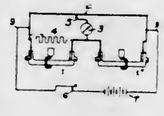
5. In a heating appliance, in combination, an air distributer in the form of a hollow ring occupying a position above the solid fuel in a substantially horizontal plane adapted to receive a current of air heated by said fuel and having openings through which said air may be applied above the solid fuel, and means to apply air to the solid fuel from within the solid fuel.

1,341,789. ANTISKID ATTACHMENT. WILLIAM J. DUVALL, Washington, D. C. Filed July 6, 1917. Serial No. 178,946. 1 Claim. (Cl. 152—2.)



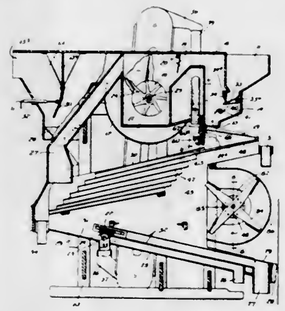
An anti-skidding attachment comprising a base plate struck outwardly and compressed to cause adjacent portions thereof to lie against each other to form a longitudinal web inclined downwardly from its center portion to the base plate to prevent skidding of a vehicle, the portions of said base plate on each side of the central portion of the longitudinal web struck outwardly and compressed to form a transverse web at right angles to said longitudinal web for reinforcing said longitudinal web and to engage a road bed to propel a vehicle forward and means engaging said last named web for holding the base plate on a vehicle wheel.

1,341,790. ELECTROCHEMICAL ANALYTICAL CONTROL. PHILIP E. EDELMAN, Minneapolis, Minn. Filed Aug. 19, 1912. Serial No. 715,849. 43 Claims. (Cl. 204—8.)



6. An apparatus for controlling the impurities in a liquid or the like which comprises electric circuits of which the liquid or the like is a part and in which the currents are varied by variations in the impurities in the liquid, and means actuated by the current variations for regulating the impurities.

1,341,791. GRAIN-SEPARATOR. NELS G. EK, Minneapolis, Minn., assignor to Fosston-Carpeuter Company, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 29, 1917. Serial No. 193,937. 11 Claims. (Cl. 130—15.)



2. In a machine of the character described, the combination with a vibratory shoe and a gang of separating sieves, of a hopper and coöperating devices for delivering

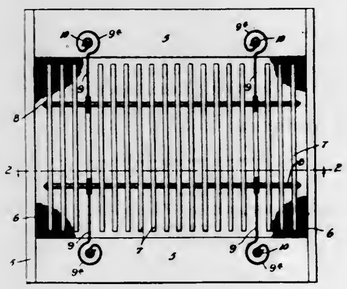
the stock therefrom to the top member of said gang of sieves, a repeat sieve carried by said shoe and arranged above the top member of said gang of sieves, means for catching a portion of the stock that passes through the delivery end portions of said gang of sieves and delivering the same directly to the head of said repeat sieve, and means for producing a forced blast of air through the stock as it passes from said hopper to said gang of sieves.

1,341,792. GRAIN-SIEVE. NELS G. EK, Minneapolis, Minn., assignor to Fosston-Carpenter Company, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 29, 1917. Serial No. 193,938. 1 Claim. (Cl. 130—19.)



A sieve of the kind described made up solely of approximately flat bars spaced to form gaps, said bars having upturned lips at their delivery edges and downturned lips at their receiving edges, the said bars at their undersurfaces having downwardly and forwardly inclined propelling blades adjacent to but at the rear of said gaps, as and for the purposes set forth.

1,341,793. SIEVE-CLEANING DEVICE. NELS G. EK, Minneapolis, Minn., assignor to Fosston-Carpenter Company, St. Paul, Minn., a Corporation of Minnesota. Filed September 29, 1917. Serial No. 193,939. 2 Claims. (Cl. 130—15.)



1. The combination with a sieve and means for imparting a "to and fro" vibratory movement thereto, of a cleaning rack comprising a multiplicity of closely positioned parallel bars extended transversely of the direction of vibration of said sieve, and resilient rack supporting arms connected to said rack at their inner portions and anchored to the sieve structure, the said spring arms being also extended transversely of the direction of vibration of said sieve and serving to hold said rack normally in intermediate positions.

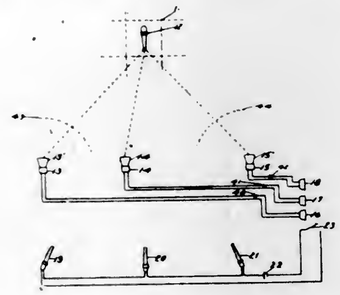
1,341,794. PARACHUTE. JOHN A. EL VEAN, Norfolk, Va., assignor of one-half to Charles A. Morrisette, Norfolk, Va. Filed Dec. 8, 1919. Serial No. 343,147. 2 Claims. (Cl. 244—21.)

1. In a parachute, a flexible body portion, the lower edge of said parachute being turned upwardly and inwardly, substantially flat metallic springs positioned within the pocket formed by the inturned edge of the parachute, sup-



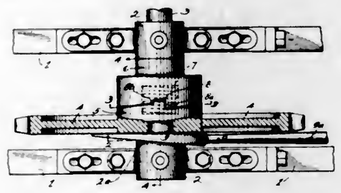
porting cables having their upper ends connected to the lower edge of the parachute, a cover for the parachute, and a closure for securing the parachute in the cover.

1,341,795. LOCATING ENEMY-GUN POSITIONS. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Apr. 19, 1918. Serial No. 229,634. 2 Claims. (Cl. 181—26.)



2. Means for determining the location of enemy gun positions comprising a plurality of electric sound-receiving mechanisms located at a distance from each other and from the enemy gun positions which are to be located, a string oscillograph provided with a plurality of strings, said strings being operatively connected to said electric receiving mechanisms and means for observing the movements of said strings produced by said electric sound-receiving mechanisms on the arrival of the sounds of the discharges of said enemy guns.

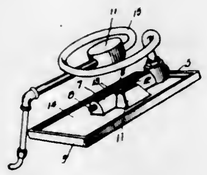
1,341,796. CLUTCH. JOHN F. GORMAN, Portland, Oreg. Filed Sept. 16, 1918. Serial No. 255,201. 1 Claim. (Cl. 192—9.)



In combination with a shaft, a clutch element keyed thereto and having an annular space therein around said

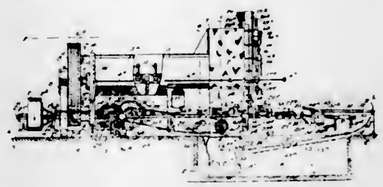
shaft, a second clutch element, slidable on said shaft, having an annular space therein around said shaft, an expansion spring around said shaft between said clutch elements and having its opposite ends extending into the annular spaces in said clutch elements for moving them apart, said clutch elements having on their adjacent faces correspondingly long engaging shoulders adapted to engage each other when one of said clutch elements is turned in one direction relative to the other, and having short engaging shoulders adapted to engage with each other when said clutch elements are moved wholly together axially of said shaft, and a wedge member adapted to be moved transversely of the axis of said shaft, in engagement with said slidable clutch element, whereby to force said slidable clutch element into interlocked engagement with the other clutch element, against the tension of said expansion spring therebetween, substantially as described.

1,341,797. OIL-BURNER. SARAHA A. GRAFFUNDER, Tacoma, Wash., assignor to Home Gas Appliance Co., Tacoma, Wash., a Corporation of Washington. Filed July 11, 1919. Serial No. 310,112. 3 Claims. (Cl. 158—63.)



1. An oil burner of the class described comprising a base plate having a conduit formed integral therewith, a port in the upper side of said conduit, a feed pipe connected to said conduit and with an oil reservoir whereby oil can be delivered to said conduit and be ejected outwardly through said port and means for supplying air through said base on both sides of said conduit opposite said port to form a proper mixture with said oil, and a baffle plate rotatably disposed upon said feed pipe above said port having its opposite faces convexed and concaved respectively and adapted to be caused to assume any tiltable position for deflecting the flame of said burner.

1,341,798. APPARATUS FOR MAKING BRICKS. HENRY W. B. GRAHAM, New London, Ohio, assignor to The Arnold-Creager Company, New London, Ohio, a Corporation of Ohio. Filed Mar. 1, 1916. Serial No. 81,425. 67 Claims. (Cl. 25—2.)



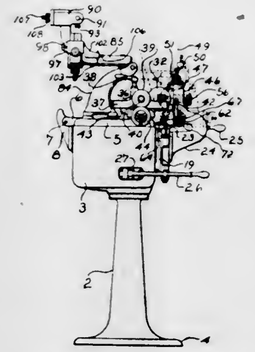
1. In apparatus of the class described, the combination with means for filling molds with material for making bricks, of means for inverting each mold and substantially simultaneously separating the mold from the bricks, and means for successively feeding molds to a position for filling and then to said inverting means.

3. In apparatus of the class described, the combination with means for filling molds with material, of devices for inverting each mold, said devices being adapted to receive a pallet for each mold, means, one element of which is carried by the inverting devices, for separating the molds from the bricks, and means for feeding molds to the filling means and then to the inverting devices.

10. In apparatus of the class described, mechanism for substantially simultaneously inverting a brick mold and separating the mold from the bricks.

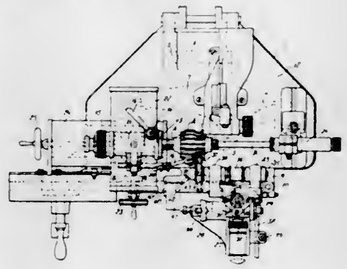
31. In apparatus of the class described, the combination with a support, of a receiver rearward of and spaced from said support to form a delivery gap between them, means for filling brick molds with material, means for successively feeding molds from said receiver to a position on said support for filling, means arranged below said receiver for moving the molds upwardly through the delivery gap onto said receiver, and a pivoted gate for the delivery gap, said receiver being provided at its front end with a depending member with which said gate cooperates to right the mold as it moves through the delivery gap.

1,341,799. METAL-REDUCING MACHINE. BENGT M. W. HANSON, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed June 8, 1916. Serial No. 102,458. 49 Claims. (Cl. 51—7.)



1. The combination of work holding means, tool holding means, and a pantographic carrier on which one of said holding means is mounted.

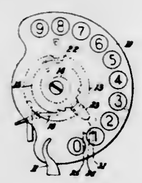
1,341,800. METHOD OF GENERATING FORMERS FOR CONTOUR-GRINDING MACHINES. BENGT M. W. HANSON, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 29, 1918. Serial No. 260,210. 4 Claims. (Cl. 51—4.)



1. The herein described method of generating a former for use in grinding a formed milling cutter having teeth with the planes of their front faces separated from the axis, the method consisting in mounting a plank for movement about a pivotal axis in the grinding plane of a grinding wheel, in off-setting the blank from the pivotal axis,

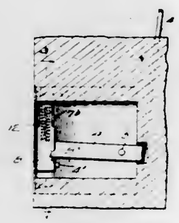
in inclining the blank and grinding it by the wheel under the guidance of a former pin and of a former having the same contour as the effective contour of the cutter, and in successively increasing the angle of inclination and repeating the grinding as aforesaid.

1,341,801. GRADED-SERVICE ELECTROMECHANICAL TELEPHONE-EXCHANGE SYSTEM. GEORG HEIMANN, Charlottenburg, Berlin, Germany; Else Hecht administratrix of said Georg Heimann, deceased. Filed Aug. 28, 1913. Serial No. 787,101. 15 Claims. (Cl. 179—90.)



1. In a telephone exchange system with electro-mechanically controlled switches, talking stations, switch controlling circuits between the talking stations and the said switches, switch controllers at the said stations, circuit-affecting members in certain of the said controllers by which these controllers exercise a determined range of control over the said switches, and circuit-affecting members in other of the said controllers by which these other controllers exercise a range of control over the said switches, differing from that exercised by the said certain controllers.

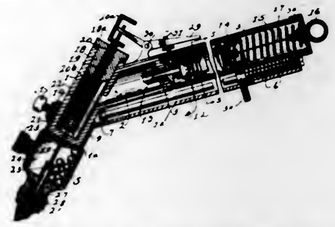
1,341,802. LATCH. LUTHER WATSON HOLLAND, Pleasant Hill, Mo. Filed July 24, 1917. Serial No. 182,410. 10 Claims. (Cl. 292—336.)



1. The combination with a door jamb having a lug, of a door having a latch, said latch having a casing provided with an opening arranged to receive the lug, a spring-pressed pivoted latch plate carried by said casing, a pivoted detent for holding the latch plate against the tension of the spring, said detent being arranged to be engaged by the lug, and to be moved to release the latch plate, thereby permitting the latter to enter between the lug and the casing of the latch.

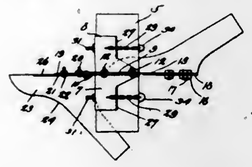
1,341,803. PAINTER'S STRIPING MECHANISM. VICTOR JANSEN, Los Angeles, Calif. Filed Aug. 18, 1919. Serial No. 319,827. 8 Claims. (Cl. 15—49.)

1. A device of the character referred to, comprising a body provided therein with a paint reservoir and an independent air reservoir adapted to hold air under pressure, a brush, a valve controlling the flow of paint from the paint reservoir to said brush, a valve controlling the flow



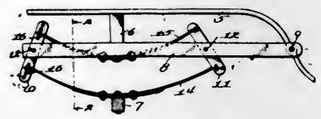
of air under pressure to said paint reservoir, and means for operating both of said valves together to admit air to the paint reservoir, and to admit paint to the brush.

1,341,804. WEED-CUTTER. SAMUEL JOHNSON, Tooele, Utah. Filed Jan. 20, 1920. Serial No. 352,877. 4 Claims. (Cl. 97—21.)



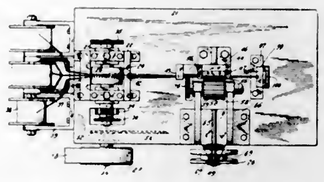
1. In a weed cutting device, a supporting beam, a yoke including opposed clamping members, each of said clamping members having coöperating flanges, cutting blades, beams for supporting the cutting blades, means for securing the cutting blades between the coöperating flanges of the yoke, and means including a chain and key hole slots, for removably securing the yoke to the supporting beam.

1,341,805. VEHICLE-SPRING. JOSEPH B. KINCER, Washington, D. C. Filed Sept. 9, 1915. Serial No. 49,727. 12 Claims. (Cl. 267—36.)



1. A spring organization of the class specified for operation with a vehicle body and running gear, comprising leaf springs and an intermediate independent rigid support, the said springs being attached in part to the vehicle body, the axle of the running gear and having extremities thereof pivotally connected to said rigid support.

1,341,806. MACHINE FOR FORMING SAW-BLADES. ADOLF KÖNIG, Hoboken, N. J. Filed Mar. 15, 1919. Serial No. 282,782. 6 Claims. (Cl. 76—112.)

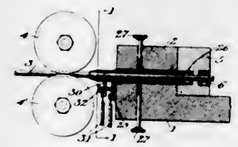


1. A machine for forming saw-blades from wire of circular cross-section, comprising two rollers for shaping the wire to form a strip having a substantially oblong cross-section, a work holder to which said shaping rollers feed the shaped strip, and a rotary cutter coöperating with said work holder, said cutter including a plurality of cutting tools having each a length corresponding to the toothed area of the saw-blade to be formed, said cutting tools being adapted to engage the shaped strips throughout their lengths, thereby cutting the entire row of teeth simultaneously.

1,341,807. PROCESS OF MAKING WINDOW-ENVELOPS. WILHELM LANGGUTH, Esslingen, Germany, assignor, by mesne assignments, to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Dec. 9, 1911. Serial No. 664,894. Renewed Nov. 18, 1918. Serial No. 263,101. 2 Claims. (Cl. 91—68.)

1. The herein described process which consists in forming an envelop or a like article and then applying to a portion of the outer surface of the article a varnish having a balsamic consistency at a temperature of about 20° Réaumur and to which varnish has been added a matting substance such as wax, spermaceti or the like.

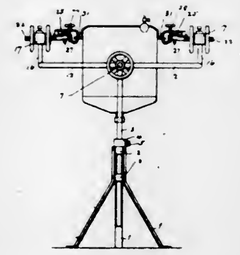
1,341,808. METAL-WORKING MACHINE. OTTO H. DE LAPOTTERIE, New Brighton, Pa., assignor to Townsend Company, New Brighton, Pa. Filed Apr. 20, 1918. Serial No. 229,821. 25 Claims. (Cl. 219—3.)



1. In a machine for forming small articles from metal stock the combination of means for heating a small portion of the stock, means for severing the heated portion from the stock and pressure means for shaping the heated portion.

19. The method of making small articles from metal stock, which consists in heating a small portion of the stock, severing the heated portion from the stock and shaping it.

1,341,809. WORK-HOLDING STAND. ROBERT CYRUS LEE, Richmond, Va., assignor to Arthur Scrivenor, Richmond, Va. Filed July 26, 1918. Serial No. 246,904. 11 Claims. (Cl. 29—89.)



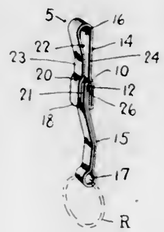
1. Work supporting means including a support, a work holder bodily fulcrumed on said support to turn in two planes at substantially right angles to each other, and work clamping means on said holder, said means being adapted to turn in two planes at right angles to each other.

1,341,810. TELEGRAPH-KEY. WILLIAM P. LILES, Marlow, Tenn., assignor to Levi Metcalf, Marlow, Tenn. Filed July 13, 1915. Serial No. 39,663. Renewed Oct. 25, 1919. Serial No. 333,373. 1 Claim. (Cl. 178—104.)



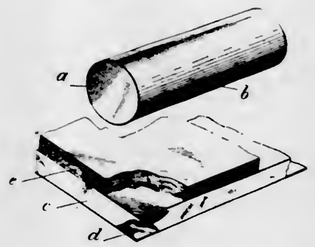
A telegraph key, comprising in combination, a base a key lever pivoted thereon, a fixed contact on the base, a lever carried by the key lever and consisting of a metal strip pivoted to the side of the key lever and having one end turned to overlie the finger piece thereof, and having its opposite end turned below the key lever to overlie the fixed contact, and a message sending contact carried by the lever to engage the fixed contact, and a spring interposed between the key lever and the last mentioned lever above the former to actuate the latter to normally close the gap across the contacts.

1,341,811. BELT KEY-HOLDER. ALVIN A. LUTZ, Mount Jackson, Va. Filed Apr. 15, 1919, Serial No. 290,124. Renewed Apr. 12, 1920. Serial No. 373,388. 1 Claim. (Cl. 24—3.)



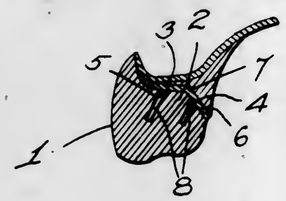
As an article of manufacture a key ring holder consisting of a strip of material having its medial portion bent upon itself and the extensions thereof looped at their medial portions with their terminals directed toward the medial bend of the strip, one of such extensions providing a key ring supporting loop and engaging the medial bend of the strip to prevent accidental displacement of the ring.

1,341,812. PROCESS FOR THE MANUFACTURE OF WIRES AND TUBES OF TWO METALS. EDOUARD MARTIN, Brussels, Belgium, assignor to Compagnie Belge Du Bi-Metal, Société Anonyme, Brussels, Belgium, a Corporation of Belgium. Filed Feb. 13, 1919. Serial No. 276,831. 4 Claims. (Cl. 29—188.)



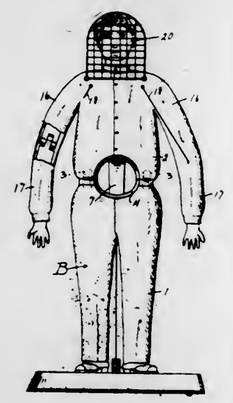
1. Process for the manufacture of wires and tubes of composite metal which consists in nesting a billet of steel into a jacket of the covering metal lined internally with a composite metal sheet adapted to form a brazing, welding the billet and jacket together by compression, and rolling and finishing the resulting blank.

1,341,813. ARTIFICIAL TOOTH. MELVIN E. MERKER, New York, N. Y., assignor to Merker Interchangeable Tooth Corporation, New York, N. Y., a Corporation of New York. Filed June 30, 1917, Serial No. 177,939. Renewed Aug. 26, 1919. Serial No. 320,047. 3 Claims. (Cl. 32—9.)



1. An artificial tooth comprising, a tooth body, an enlargement on the rear side of said body, a plurality of flat faces on said enlargement arranged angularly with relation to each other, each of said faces having an opening formed therein and each opening being disposed diagonally with relation to the longitudinal axis of the tooth.

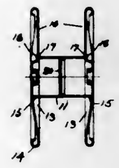
1,341,814. TARGET. WILLIAM A. MOSBY, Cotton Plant, Ark. Filed Sept. 27, 1919. Serial No. 326,900. 8 Claims. (Cl. 124—15.)



1. A target of the class described comprising two superimposed sections hingedly connected, said sections being hollow and the upper section being provided with a target opening, a trigger mounted within the lower section and extending across the target opening of the upper section, and a keeper within the upper section with which the trigger engages to maintain both sections substantially in alinement, said upper section dropping by gravity when the trigger is released from the keeper.

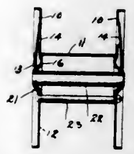
1,341,815. REEL OR BEAM. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 11, 1919. Serial No. 323,143. 3 Claims. (Cl. 242—77.)

1. In a device of the character described, a body portion having a head at either end, each head constructed of a sheet metal plate pressed outwardly from its inner surface at intervals forming a plurality of hollow, stiffening ribs, said body being formed of a strip of sheet stock



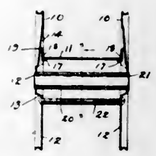
bent into tubular form and provided with edge-extending portions to fit into said rib recesses, and means for securing said heads to said body.

1,341,816. REEL OR BEAM. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1919. Serial No. 323,579. 4 Claims. (Cl. 242—77.)



1. In a reel or beam, a body portion having a head at either end, each of said heads having a main plate recessed at intervals on its inner surface forming hollow, stiffening ribs, a body-centralizing disk connected to the inner surface of each head, and elongated, longitudinally-disposed members setting into said rib recesses to close the same adjacent the juncture of said body and heads.

1,341,817. REEL OR BEAM. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 15, 1919. Serial No. 323,864. 3 Claims. (Cl. 242—77.)

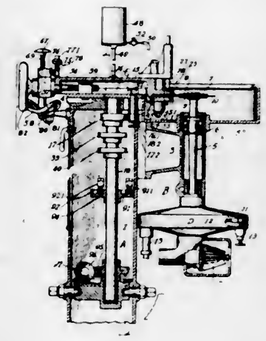


1. A reel or beam comprising a body having a head secured at either end thereof, each of said heads having a main plate recessed at intervals on its inner surface forming hollow, stiffening ribs, and a set of independent, elongated members secured in said rib recess closing the same at and for a distance outside the line of juncture of said body and head.

1,341,818. GRINDING-MACHINE. OSCAR ONSRUD, Chicago, Ill. Filed June 23, 1919. Serial No. 306,074. 24 Claims. (Cl. 164—62.)

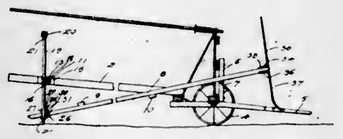
1. In a machine of the class described, the combination of a frame, a tool support and a work support mounted thereon, mechanism for shifting said supports relative to each other so as to bring the work into position to be acted upon by the tool, a motor for rotating said tool support, a power-controlling device arranged intermediate

said motor and the source of power, and means operated by said support-shifting mechanism for actuating said



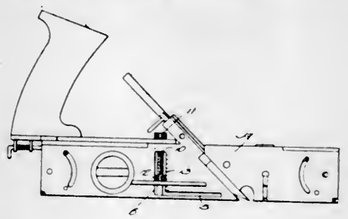
controlling device so as to permit the supply of power to said motor only during a certain portion of the relative movement of said supports.

1,341,819. AUTOMATIC HAY-EJECTOR FOR SWEEP-RAKES. VICTOR C. PALMER, Norwood, Colo., assignor of one-third to Horace Joseph and one-third to James F. Sullivan, Norwood, Colo. Filed Sept. 13, 1919. Serial No. 323,620. 7 Claims. (Cl. 56—395.)



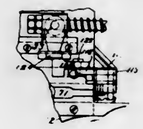
1. The combination with a sweep rake having its frame provided with supports, of an ejector having its forward portion mounted slidably on the said supports, said sweep rake having rearwardly extending beams, a transverse rod connecting said beams, a rod having loose and lateral slidable connections with the rear end of the ejector and provided with vertical and lateral slidable connections with said transverse rod, whereby as the sweep rake moves rearwardly, the rod of the ejector engages the ground, and causes the ejection of the hay from the rake.

1,341,820. ADJUSTABLE GAGE FOR PLANES. LAWRENCE C. PAYNE, Anacostia, D. C., assignor of one-half to Harry L. Harris, Washington, D. C. Filed May 19, 1919. Serial No. 298,097. 3 Claims. (Cl. 145—20.)



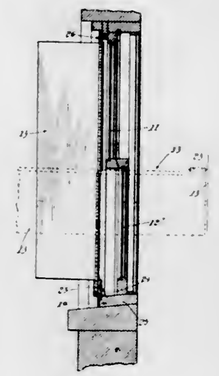
1. The combination with a plane having a substantially L-shaped slot in one side wall thereof, of a gage attachment comprising a swinging gage member movable horizontally through one portion of the slot and adjustable vertically in the other portion thereof, and means mounted in the plane and active upon the gage member for horizontally swinging the same and also vertically adjusting it.

1,341,821. TACK-FEEDING MECHANISM. ANGELO PERRI, Watertown, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Original application filed May 10, 1918, Serial No. 233,685. Patent No. 1,290,651, dated Jan. 7, 1919. Divided and this application filed Sept. 28, 1918. Serial No. 256,122. 7 Claims. (Cl. 1—6.)



2. In combination, a tack positioning member, a tack feeding chute, a recessed tack supporter yieldingly mounted at the chute exit, a confiner adapted to enter between the supporter and the chute to separate the first and second tacks and hold back the latter, and a single operating means arranged to thrust the confiner between the first and second tacks and then to withdraw the supporter while the confiner holds back the second tack, so as to release and drop the first tack into the positioning member, the same comprising a cam or wedge device actuated by the forward motion of the confiner to retract the supporter.

1,341,822. DISPLAY-HOLDER. LEONARD G. QUACKENBOSS, Chicago, Ill. Filed June 30, 1917. Serial No. 178,014. 8 Claims. (Cl. 211—25.)



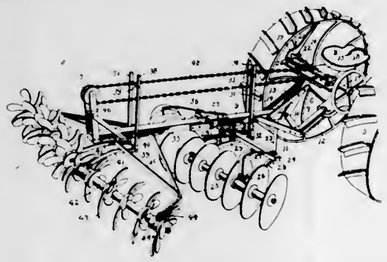
1. The combination with a building construction having an opening therein lying in a substantially vertical plane, of a holder movable through said opening, and a combined guide and support located intermediate the upper and lower edges of said opening, on which said holder tilts and slides, for guiding said holder in its movement through said opening, so that the upper edge of said holder swings outwardly and the lower edge of said holder swings inwardly to clear the lower edge of said opening, and then slides inwardly through said opening, said holder being provided with longitudinally-extending slide portions for engagement with said combined guide and support.

1,341,823. PHOTOGRAPHIC SHUTTER. WILLIAM A. RIDDELL and FRIEDRICH A. G. PIRWITZ, Rochester, N.Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 17, 1919. Serial No. 271,588. 38 Claims. (Cl. 95—63.)



1. In a photographic shutter, the combination with a blade mechanism and a spring actuated master member, of a driving member for the blade mechanism actuated intermittently in one direction by the master member.

1,341,824. TRACTOR-HARROW-OPERATING MECHANISM. ARTHUR W. REYNOLDS, Newtown, Conn. Filed May 10, 1919. Serial No. 296,100. 5 Claims. (Cl. 55—83.)

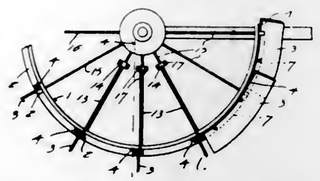


1. The combination with the draw-beam of a tractor harrow having levers and connections for angling the gangs of disks, of a shaft carried upon the draw-beam adjacent to its point of attachment to a tractor, and provided with operating means, and a chain connecting the shaft with the levers for operating the same to shift the gangs of disks.

3. The combination with the draw-beams of a pair of tractor harrows coupled together one behind the other, and having levers and connections for angling the gangs of disks, of a shaft carried upon the draw-beam of the forward harrow adjacent to its point of attachment to a tractor and provided with operating means, and a chain connecting the shaft with the levers of both harrows for operating the same to shift the gangs of disks of the two harrows simultaneously.

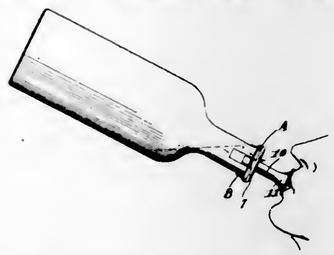
1,341,825. TRASH AND SOD CHOPPER OR CUTTER. LEE L. RUEBUSH, Sciota, Ill. Filed Aug. 18, 1919. Serial No. 318,223. 3 Claims. (Cl. 55—61.)

1. The combination with a tractor wheel having a plurality of tractor ribs, a plurality of combined tractor and cutting knives or blades conforming to and engaging said tractor ribs and having their ends projecting beyond the opposite edges of said perimeter, braces connected to the outer ends of the knives or blades and having their inner ends connected to the spokes of the wheel adjacent the hub, said blades having right angle flanges, means passing through said flanges and through the perimeter



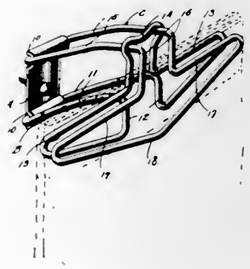
of the wheel to assist in fastening the blades or knives in position, and means passing through the ribs and the blades, thereby additionally securing the blades or knives in place.

1,341,826. DRINKING ATTACHMENT FOR BOTTLES. EDWIN L. STEWART, Huntington, W. Va. Filed Apr. 19, 1919. Serial No. 291,295. 1 Claim. (Cl. 215—1.)



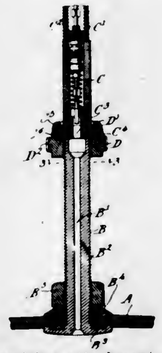
A drinking attachment for bottles comprising a cap member consisting of a circular plate having a curved flange at its edge portions and having an opening formed therethrough, a washer of resilient material disposed within the inclosure of the flange and against the plate and following the curvature of the flange at its edge portions, rsilient fingers carried by the flange and formed to engage around the neck rib of a bottle, said washer having an opening registering with the opening of the plate and a tubular member slidably engaged through the registering openings of the plate and washer, said member being of a size to snugly engage the washer and plate at the portions thereof which surround the openings.

1,341,827. GARMENT-HANGER. ROGER H. VARICLE, Los Angeles, Calif. Filed Oct. 25, 1919. Serial No. 333,230. 3 Claims. (Cl. 211—13.)



3. A garment hanger comprising a pair of gripping elements disposed in vertical parallel relation to each other, means on the gripping elements for pivotally attaching them to a support, and a loop on one of the gripping elements slidably engaging the last-named means of the other gripping element for causing movement of the gripping elements toward and away from each other upon pivotal movement being imparted to either of them.

1,341,828. VALVE. JULIUS VOLCKHAUSEN, Weehawken, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed May 15, 1918. Serial No. 234,661. 6 Claims. (Cl. 152—12.)



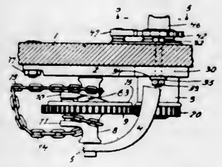
1. A tire vulcanizing attachment comprising a hollow stem attachable to a tire tube, a valve housing detachably secured to said stem and communicating therewith, and valve insides arranged in the housing, said stem having a bore too small to admit said valve insides.

1,341,829. OVEN. JAMES W. WHITTINGHILL, Los Angeles, Calif. Filed Aug. 29, 1917. Serial No. 188,767. Renewed Apr. 17, 1920. Serial No. 374,778. 2 Claims. (Cl. 126—339.)



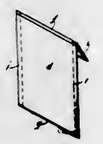
1. In a bake oven construction, the combination of oven side walls, horizontal guide flanges thereon, a shelf, end rails on said shelf comprising a top-plate, a downwardly extending longitudinal side flange on the outer edge of said top-plate having openings therein, horizontal rollers pivoted directly on said top-plate projecting through the openings in said side flange adapted to contact the oven side walls, and vertical rollers mounted on and projecting below the side flanges and adapted to travel on the guide flanges.

1,341,830. BRAKE MECHANISM. GRIFFIN S. ACKLEY, Brooklyn, N. Y., assignor to G. S. Ackley & Co., a Copartnership consisting of Griffin S. Ackley and Helen T. Ackley. Filed Apr. 24, 1919. Serial No. 292,277. 6 Claims. (Cl. 188—59.)



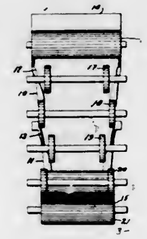
4. In a brake mechanism, a frame, a winding drum having a central gear and tapering grooved sections on opposite sides thereof, and means whereby a pair of chains may be secured to the respective sections, one of said sections being formed with a cross cut groove to permit of a chain being wound in either direction thereon.

1,341,831. DRINKING-CUP. BENJAMIN B. AVERY, New York, N. Y., assignor, by mesne assignments, to Germproof Cup Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 6, 1917. Serial No. 184,563. 3 Claims. (Cl. 229—53.)



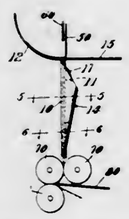
1. A sanitary drinking cup comprising a blank folded upon itself transversely thereby to form a pair of flat sides, one of said sides having a flap extending beyond the other at the open end of the cup, said sides and flap having their side edges folded and refolded, and the flap with its folded side edges folded down upon the cup thereby to lock the side folds thereof.

1,341,832. METHOD OF MANUFACTURING SANITARY DRINKING-CUPS. BENJAMIN B. AVERY, New York, N. Y., and ALEXANDER NELSON, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 4, 1918. Serial No. 226,593. 9 Claims. (Cl. 93—13.)



1. The method of producing a sanitary drinking cup, which consists in first folding a cup blank transversely of its length to provide two flat sides, one longer than the other thereby to provide a flap, then folding each side edge thereof a plurality of times, and then folding the flap over such side edges.

1,341,833. FORMER FOR MANUFACTURING SANITARY DRINKING-CUPS. ALEXANDER NELSON, Newark, N. J., and BENJAMIN B. AVERY, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 4, 1918. Serial No. 226,594. 12 Claims. (Cl. 93—13.)



1. A former for a sanitary drinking cup comprising a pair of spaced parallel plates, said plates having spaced-apart side edges, one having its side edges folded upon

itself a plurality of times and thereby curled at each side thereof and coöperating with the side edges of its companion plate.

1,341,834. METHOD OF MAKING DRINKING-CUPS. ALEXANDER NELSON, Newark, N. J., and BENJAMIN B. AVERY, New York, N. Y., assignors,, by mesne assignments, to Germproof Cup Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 4, 1918. Serial No. 226,595. 3 Claims. (Cl. 229—53.)



1. The method of forming a drinking cup, which consists in folding a previously severed blank to form a pair of flat equally wide straight parallel side edges and comprising a front and a back, one of the sides being longer than the other thereby to form a flap, then folding the side edges of the cup proper and the flap in one direction with a narrow fold, then folding such folded side edges in the opposite direction with a wider fold, then crimping such folded side edges, and then folding over the flap with its folded edges crosswise of the cup and down upon the back of the flat side carrying such flap.

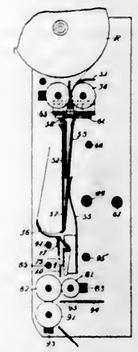
1,341,835. SANITARY DRINKING-CUP AND METHOD OF MANUFACTURING SUCH CUPS. BENJAMIN B. AVERY, New York, N. Y., and ALEXANDER NELSON, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 4, 1918. Serial No. 226,596. 32 Claims. (Cl. 93—13.)



17. A sanitary drinking cup comprising a blank folded upon itself to form a pair of flat sides, one longer than the other thereby to form a flap, the flat sides and the flap having their side edges folded a plurality of times in opposite directions and locked by the flap folded down upon the cup.

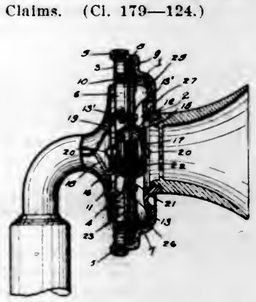
1,341,836. MACHINE FOR MANUFACTURING AND VENDING SANITARY DRINKING-CUPS. ALEXANDER NELSON, Newark, N. J., and BENJAMIN B. AVERY, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y., a Corporation of New York. Filed May 10, 1919. Serial No. 296,083. 82 Claims. (Cl. 93—13.)

1. In a machine for manufacturing sanitary drinking cups, the combination of means for feeding a web of paper in one direction, means for deflecting a part thereof upwardly upon such web, means for folding and infolding the side edges of the web throughout the length of the cup and means around which the web is deflected and by means of which it is transversely folded and pushed into and through the folding and infolding means.



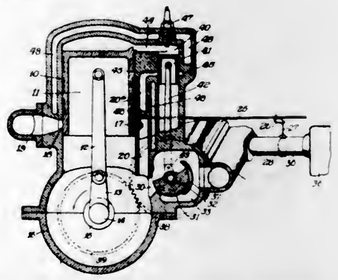
32. A three-fold former for a cup-making machine, it comprising a member having an S-shaped bend at each side, a member having a tapered curled edge at each side, and an intermediate member.

1,341,837. TELEPHONE-TRANSMITTER. WILLIAM BIRRELL and JAMES BIRRELL, Chicago, Ill., assignors to the Audible Telephone Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 18, 1917. Serial No. 187,032. 3 Claims. (Cl. 179—124.)



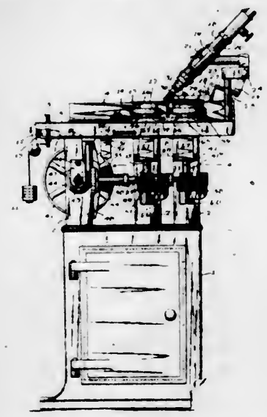
2. In a telephone transmitter of the class described a freely vibratable diaphragm and an air-tight electrode chamber at the center of the diaphragm, said chamber being balanced with respect to the plane of the diaphragm and having the air partially exhausted therefrom.

1,341,838. TWO-CYCLE ENGINE. CHARLES L. BOWDEN, Chicago, Ill. Filed May 28, 1917. Serial No. 171,378. 23 Claims. (Cl. 123—53.)



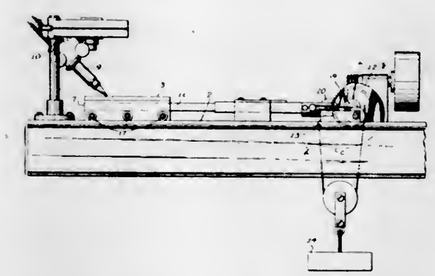
1. In a two cycle engine, the combination of a power cylinder having intake and exhaust ports near its crank end, a power piston in said cylinder controlling the opening and closing of said ports, a compression chamber for containing explosive mixture under pressure, an auxiliary firing cylinder having at its head end an open passageway connecting with the head end of the power cylinder, an intake passageway from said compression chamber to said intake port and to the crank end of said auxiliary cylinder, an auxiliary piston in said auxiliary cylinder for opening said intake passageway to the auxiliary cylinder during intake, and devices for firing the mixture in said auxiliary cylinder, said firing chamber being of a volume substantially filled with explosive mixture from said intake passageway for each cycle of the engine when running without load.

1,341,839. FLAME-WELDING MACHINE. WORTHY C. BUCKNAM, Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Oct. 24, 1918. Serial No. 259,512. 21 Claims. (Cl. 78—90.)



1. In a machine for welding the seams of successive pieces, the combination with a mechanically supported autogenous welding torch, of mechanism for successively positioning the pieces with the forward ends of their seams at the welding point, there causing them to rest for a definite period, and then longitudinally advancing them at welding speed.

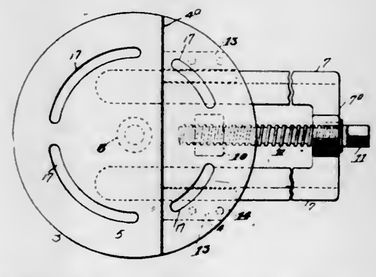
1,341,840. AUTOGENOUS-FLAME-WELDING MACHINE. HENRY CAVE, Hartford, Conn., and JAMES L. ANDERSON, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Nov. 28, 1917. Serial No. 204,343. Renewed Apr. 9, 1920. Serial No. 372,704. 8 Claims. (Cl. 78—83.)



1. In a machine for welding by the autogenous flame process, the combination of a work-holder, means for delivering a welding flame of the character indicated upon the edges to be united, and mechanism for producing relative feed travel between the flame and work at a rate varying during the execution of the weld, for the purpose set forth.

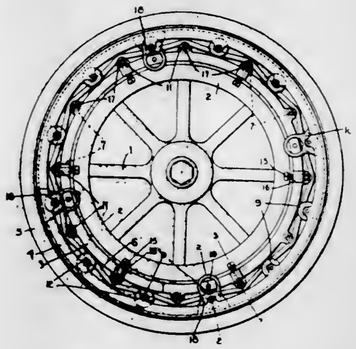
7. In a machine for welding short tubular lengths, the combination with a stationarily supported welding torch, of a stationary jig comprising a block made in halves with a passage therein for the said articles and means for pressing the halves toward each other, and means for advancing the articles through the embrace of the passage in operative relation to the flame.

1,341,841. COMBINATION DRILL-PRESS TABLE AND VISE. GEORGE HOLMES COCKS, Adrian, Mich. Filed Feb. 28, 1919. Serial No. 279,815. 1 Claim. (Cl. 77—63.)



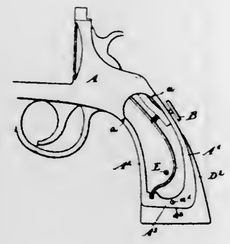
In a device of the class described, the combination with a support, of a stationary jaw carried by said support and provided with a flat outwardly-extending table-like top portion, a slidable jaw supported contiguous to said stationary jaw and provided with a flat outwardly-extending table-like top portion, and said jaws when closed forming a flat top table, substantially as shown and described.

1,341,842. RESILIENT WHEEL. ALFONSO D'ERRICO, Boston, Mass. Filed Sept. 18, 1919. Serial No. 324,281. 1 Claim. (Cl. 152—32.)



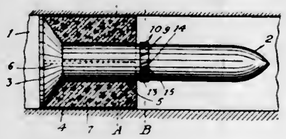
In a wheel, the combination with a wheel body having a rim portion provided with bearings, some at least of which are slotted, of rolls journaled in said bearings, the slotted bearings having bosses associated therewith, adjusting screws screw-threaded through said bosses and by which the rolls in the slotted bearings may be adjusted radially, an outer rim encircling the wheel body, a plurality of rolls carried on the inner face thereof, and flexible cords extending over the rolls on the wheel body and under the rolls on the outer rim.

1,341,843. REVOLVER-STOCK. PROSPERO DONADIO, Brooklyn, N. Y. Filed Dec. 2, 1919. Serial No. 341,925. 2 Claims. (Cl. 42—71.)



2. In a revolver, a frame, scales adapted to embrace and to be attached to the handle portion of said frame, one of said scales being recessed on its inner face, said recess having a depth equal to the thickness of the coincident portion of the handle and adapted to match to and receive the lower part of said handle portion with the end wall of such recess forming an abutment for the end of said handle portion, the other scale having a plane face lying against the adjacent face of the handle portion, and the offset portion of the first-mentioned scale, with the fin of said offset portion bearing firmly against the handle portion with the joint between the scales disposed to one side of said rear portion of the handle, and means detachably securing said scales to said handle portion.

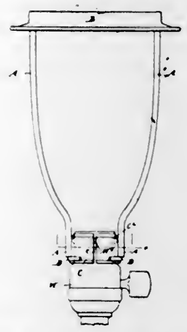
1,341,844. PROJECTILE. KENNEDY DOUGAN, Minneapolis, Minn. Filed Sept. 20, 1917. Serial No. 192,264. 6 Claims. (Cl. 102—32.)



9. A projectile provided with a circumferential channel in its outer surface, its front side sloping inwardly toward the rear of said projectile, its rear side being at right angles to the horizontal axis of the projectile, a plurality of plates adapted to fit into said channel, a projection on the rear end of each plate adapted to enter a hole formed in the rear wall of said channel and prevent that end of said plate from being thrown off by centrifugal force, a wing carried by each plate, and a band surrounding the front ends of said plates.

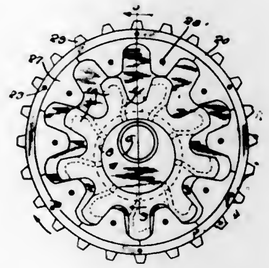
1,341,845. SUPPORT FOR SHADE-HOLDERS. TRISTRAM GLANDING, Philadelphia, Pa., assignor to William R. Noe & Sons, New York, N. Y., a Firm. Filed Oct. 11, 1919. Serial No. 329,961. 2 Claims. (Cl. 240—111.)

2. A shade-holder comprising a yielding open collar adapted to inclose and grasp a lamp-socket and be supported thereon, standards secured to said collar, said collar having a bead at one end, and a spring in the form of an open annulus arranged upon the exterior of said collar and disposed between said bead and the adjacent



ends of said standards, the opposite end of said collar contracted to form an internal offset to engage a bead on a lamp-socket.

1,341,846. ROTARY POWER DEVICE. ELLICK H. GOLLINGS, Chicago, Ill. Filed Apr. 22, 1918. Serial No. 230,094. 2 Claims. (Cl. 103—44.)



1. In a device of the class described the combination of a hollow rotary member having internal teeth, a rotor eccentrically mounted therein and having radially projecting teeth adapted to coöperate with the teeth on the said member to provide a plurality of gradually expensible compartments at one side of the device and a plurality of gradually contractible outlet compartments on the opposite side of the device between the rotor and rotary member for effecting a transfer of fluid through the device, the said teeth on the rotor being hollowed and provided with a transverse wall adjacent one face thereof and the outer end of the teeth, for providing an enlarged fluid compartment intermediate of the teeth.

1,341,847. WRITING-POSITION PENHOLDER. JOHN W. GRIFFITH, San Francisco, Calif. Filed Feb. 2, 1920. Serial No. 355,680. 4 Claims. (Cl. 120—107.)



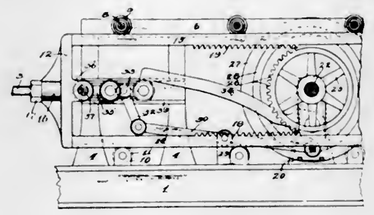
1. In a combination with a pen holder having a pen point at one end and of a sleeve receiving said pen holder, a finger receiving loop secured to said sleeve and extending outwardly to one side of the pen holder, a downwardly extending member on the outer end of said loop for engagement with the paper being written upon, a thumb piece on said sleeve and finger guides fixed to said sleeve.

1,341,848. TOOL-SUPPORT. HENRY F. HAENSLER, Detroit, Mich. Filed May 21, 1919. Serial No. 298,720. 1 Claim. (Cl. 211—14.)



A cast metal holder for a set of tools having a thin top and a set of sockets integral with the top and of substantially the same thickness and extending down from the top, said top being marked to indicate the adaptability of the individual sockets for holding a particular tool of a set which fits therein, being all the tools of the set relating to a particular size of screw whose characteristics are indicated by figures on said top, and legs integral with the top to support the same.

1,341,849. DEAD-CENTER DEVICE. WILLIAM L. HARRIS, Kansas City, Mo. Filed Sept. 19, 1918. Serial No. 254,883. 12 Claims. (Cl. 74—20.)



7. The combination with a reciprocating engine, of cam-controlled toggle means connected therewith for obviating dead centers.

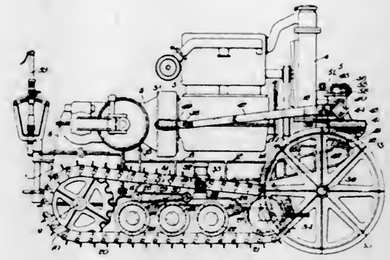
1,341,850. FOUNTAIN-PEN. HUGH WILSON HASLUP, Toledo, Ohio. Filed Oct. 23, 1919. Serial No. 332,678. 2 Claims. (Cl. 120—46.)



1. In a device of the described character, a pen-section, a flexible tubular ink-reservoir, one end of which leads into said pen-section and having at its other end a projecting stem, a plug chambered for the reception of said stem, a barrel for the reception of said ink-reservoir, said barrel being uniformly internally threaded at each end, said pen-section and plug-section being, respectively, uniformly externally threaded for interchangeable engagement with said internal threads.

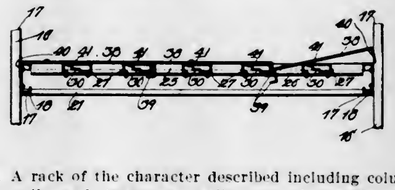
1,341,851. TRACTOR. REX P. HICKS, Milwaukee, Wis., assignor to Hicks Tractor Company, Milwaukee, Wis., a Corporation of South Dakota. Filed May 12, 1919. Serial No. 296,344. 6 Claims. (Cl. 180—9.1.)

1. In a tractor, the combination, with a frame, of a pair of front wheels, wheel supports on which said front wheels are mounted, a beam to which said wheel supports are secured, a connection between said beam and the forward portion of the frame comprising a member pivotally connected to the forward portion of the frame with its pivot axis disposed transversely of the frame, and a
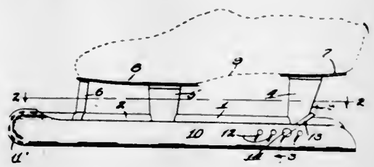


pivotal connection between said member and said beam having a pivotal axis disposed longitudinally of the frame, and means secured to the beam and to a stationary part of the tractor for bracing said beam and its connection with the frame.

1,341,852. RACK OR SHELVING. RICHARD W. JEFFERIS, Philadelphia, Pa. Filed May 13, 1919. Serial No. 296,728. 4 Claims. (Cl. 211—27.)



2. A rack of the character described including columns, side rails and transverse rails secured together, said transverse rails having flanged saddles thereon; and slats supported on the flanges of said saddles; substantially as described.

1,341,853. SKATE-PROTECTOR. ALFRED JOHNSON, Chicago, Ill. Filed Mar. 27, 1919. Serial No. 285,521. 1 Claim. (Cl. 46—53.)

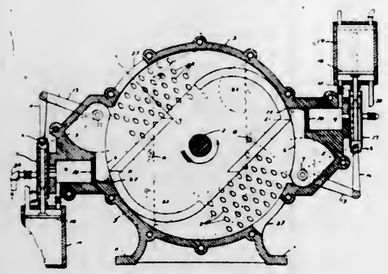


A skate protector comprising a longitudinal sheath for the runner, means at one end of the sheath to engage and hold the sheath on the runner, said sheath having button holes in each of its side walls, and an extensible loop having buttons at its ends for engagement with said holes and adapted to engage over the skate runner against a stanchion thereon to coöperate with the first-mentioned means for holding the sheath on the runner.

1,341,854. ROTARY INTERNAL-COMBUSTION ENGINE. HARRY L. KLINE, Portland, Oreg. Filed Sept. 3, 1919. Serial No. 321,322. 2 Claims. (Cl. 60—44.)

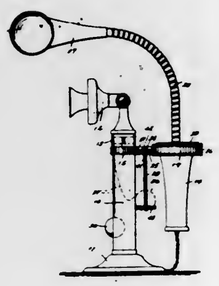
1. In a rotary internal combustion engine the combination of a rotor means comprising a cylinder having flattened impulse receiving surfaces, a stator means having

piston containing chambers, piston members constituting gates hung in said stator means in such manner that the free or swinging ends bear or ride on the curved and flattened surfaces of the rotor means, a fuel supply means ar-



ranged to draw fuel and air from a carbureter and compress the mixture into the combustion chambers, slide valves with means of operating same arranged to admit the products of combustion to the power or working chambers after explosion.

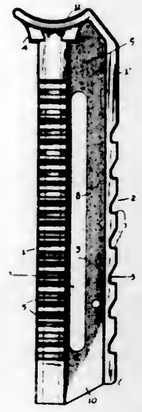
1,341,855. ATTACHMENT FOR TELEPHONES. SIDNEY M. KNOPF, New York, N. Y. Filed May 2, 1918. Serial No. 232,031. 3 Claims. (Cl. 179—147.)



1. The combination with a telephone instrument having a spring operated hook and a receiver removable therefrom during operation of the telephone, of an attachment comprising supporting means consisting of clamping means adapted to engage the telephone post, and clamping means adapted to engage the end of the receiver, an attaching device operative to clamp said supporting means on said telephone post and receiver, an extension for said receiver adapted to be secured thereto by said receiver clamping means, and means independent of said receiver for operating said hook to make said telephone operative and inoperative.

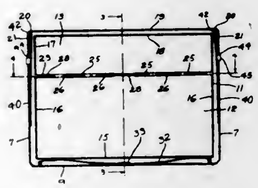
1,341,856. JACK-BAR. JOHN C. KOPF, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 14, 1919. Serial No. 304,263. 1 Claim. (Cl. 254—1.)

A jack-bar consisting of a forging comprising a rack-bar portion of U cross-section and a toe-lift bar portion of T cross-section integrally joined by web portions at top and bottom, with a slot extending between said web portions, and an integral head at the top of the rack-bar portion



continuing with the marginal flanges of the toe-lift bar portion.

1,341,857. BOX FOR CIGARETTES AND LIKE ARTICLES. HENRY H. LEWIS, Attleboro, Mass. Filed Nov. 20, 1919. Serial No. 339,254. 4 Claims. (Cl. 206—38.)



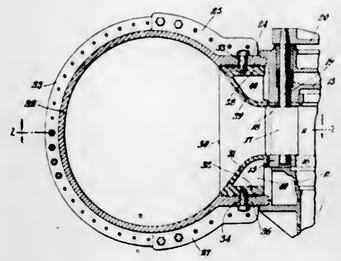
4. In a cigarette box, a casing having an opening at one end, a jointed receptacle bodily movable in the casing, a torsional spring connecting the sections of the receptacle at the joint, and a spring for forcing the receptacle bodily lengthwise of the casing to move the outer section of the receptacle through the open end of the casing to free the torsional spring to allow it to throw the said outer section entirely out of the casing and at an angle thereto, and coöperating means on the casing and the inner section of the receptacle to limit the outward movement of the latter.

1,341,858. HATPIN ATTACHMENT. JOHN BARTHOLOMEW MASERANG, Belleville, Ill. Filed Oct. 16, 1919. Serial No. 330,951. 1 Claim. (Cl. 132—25.)



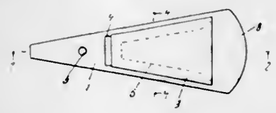
A hat pin attachment comprising an elastic band adapted to be connected at one end to the head of the pin, a tubular guard adapted to be slipped over the point of the pin, clips embracing the body of the guard, a terminal for the other end of the band consisting of a metal plate folded across its mid-length to form leaves lying against opposite sides of the band, and rivets engaging the clips and passing through both leaves of the terminal and the interposed band and holding the latter alongside said guard.

1,341,859. HYDRAULIC TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Filed May 28, 1919. Serial No. 300,412. 19 Claims. (Cl. 253—120.)



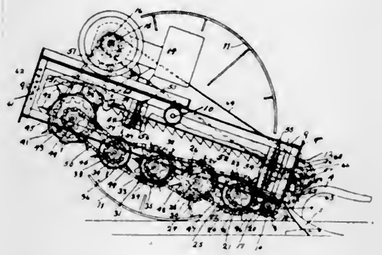
1. In combination in a hydraulic turbine, a circumferential series of stay vanes standing between the casing walls above and below, said series being made in a large number of sections and each section comprising a crown part and a base part and a small number of vanes, each section being held in place in the series by having its crown part and base part respectively fastened to the turbine structure above and below.

1,341,860. MOUTH-FLUTE. FREDERIC ALONZO MORLEY, Brooklyn, N. Y. Filed Feb. 19, 1919. Serial No. 278,064. 8 Claims. (Cl. 46—46.)



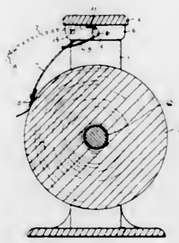
1. A device of the class described having a casing adapted to be inserted in the mouth and receive the tongue of the user therein, and a supplementary casing extending from the inner end to a point intermediate the ends of the first named casing and on one side thereof forming a wind passage.

1,341,861. SOD-DISINTEGRATOR AND QUACK-GRASS ERADICATOR. AXEL NEWDALL, Minneapolis, and NELS P. NELSON and MAGNUS NEWDALL, Springfield, Minn. Filed Oct. 5, 1918. Serial No. 256,959. 5 Claims. (Cl. 55—51.)



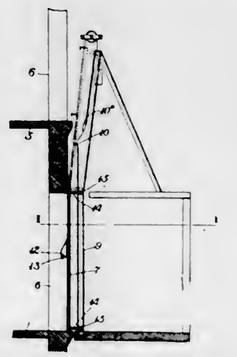
1. In a machine of the kind described, the combination with means for uplifting a furrow, of a series of toothed disintegrating rollers receiving the uplifted furrow, means for driving said rollers in a direction to carry the furrow over the tops of said rollers in performing the disintegrating action, and a retarding rack mounted above said rollers and held against movement in the direction of the travel of the material over said rollers.

1,341,862. PAPER-ROLL SUPPORT. EVAN L. REED, Sterling, Ill. Filed Feb. 24, 1919. Serial No. 278,633. 1 Claim. (Cl. 211—32.)



A device of the class described, comprising a frame provided with a cross-bar; a clip secured to the lower face of said cross-bar and provided with resilient side-plates; an arm pivoted in said clip; a spring in engagement with said arm and tending to force the same downwardly; and bosses projecting inwardly from said side-plates, adapted to engage said arm and hold the same releasably in elevated position.

1,341,863. DOOR FOR ELEVATOR-SHAFTS. ALBERT RUSH, Columbus, Ohio. Filed Sept. 22, 1919. Serial No. 325,444. 6 Claims. (Cl. 187—58.)

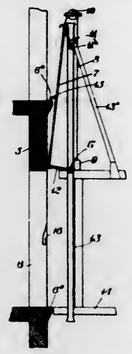


1. The combination with a building having an elevator shaft and doorways leading from the floors of the building to the shaft and a car to move vertically in said shaft, of sliding doors for the doorways of the building, a support on the car to receive one of said doors and guiding means on the car below said support to guide the door to said support.

1,341,864. DOOR FOR ELEVATOR-SHAFTS. ALBERT RUSH, Columbus, Ohio. Filed Oct. 9, 1919. Serial No. 329,499. 5 Claims. (Cl. 187—58.)

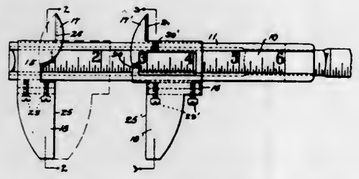
1. In a building having an elevator shaft, doorways leading thereto and a car to move in said shaft, the combination of a door, a guide on the car projecting above the

top of the car, hinging means connecting the upper portion of the door with said guide, rigid means connecting the lower portion of the door with said guide and means



whereby said upper hinging means may be deflected to cause the deflection of the upper portion of the door when raised.

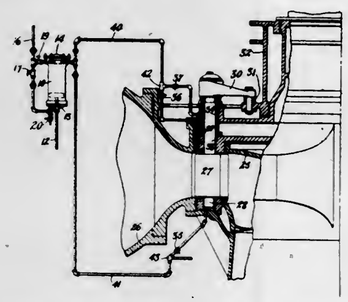
1,341,865. CALIPERING-RULE. KNUT ELVING SOLBERG, Philadelphia, Pa. Filed Sept. 26, 1918. Serial No. 255,758. 10 Claims. (Cl. 33—143.)



1. In a rule caliper, a subcombination comprising a pair of guides adapted to engage the edges of a rule and connected at one end, a rule adapted to project past the guides at either end and calipering jaws upon the guide spaced longitudinally of the rule.

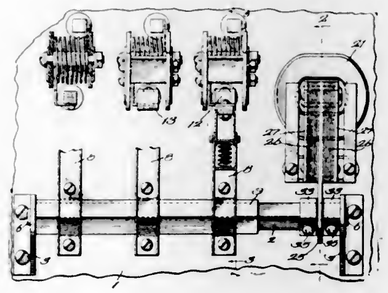
10. A sheet metal jaw for beam callpers the sheet from which the jaw is made being bent upon itself to form the spaced parallel sides of the jaw which are thus connected at one end, one of the sides having an extension forming a measuring arm, a block interposed between and secured to the free ends of the sides and retaining screws passing through the block parallel to the sides.

1,341,866. SYSTEM OF LUBRICATION. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Filed Mar. 10, 1919. Serial No. 281,751. 8 Claims. (Cl. 184—6.)



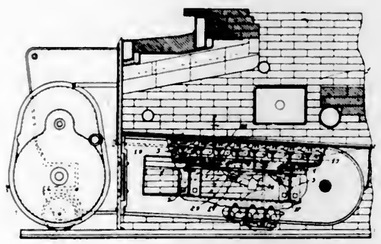
5. A grease gun comprising a cylinder, a piston therein, grease on one side of the piston, a grease conduit leading from the same end of the cylinder, a fluid or air pressure supply conduit with branches to respective ends of the cylinder, valves in said grease conduit and said branches of the fluid or air-supply conduit, and a drain valve from the end of the cylinder opposite to the grease end, whereby the fluid pressure may be applied to force the grease from the gun or to restore the piston to initial position thereafter.

1,341,867. MAGNETIC CONTACTOR. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignors to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 25, 1918. Serial No. 246,636. 10 Claims. (Cl. 200—87.)



1. An alternating current magnetic contactor having a main operating shaft one portion of which is polygonal in cross section, a pole piece, and an armature fitting somewhat loosely over the polygonal portion of said shaft whereby the armature is capable of operating the shaft but is, within reasonable limits, independent of said shaft, thus enabling it to adjust itself to the pole piece.

1,341,868. DRAFT-DAMPER MECHANISM FOR FURNACES. HENRY VICK, Chicago, Ill. Filed July 20, 1917. Serial No. 181,783. 6 Claims. (Cl. 110—40.)

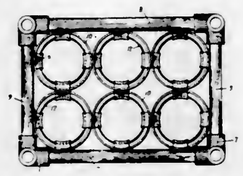


1. A damper, for traveling furnace grates, comprising, a member adapted to be secured below the upper lap of the grate and having draft openings therein, doors for closing and opening said openings, and counterweighted means for holding said doors in closed position.

1,341,869. SANITARY BOTTLE-CRATE. OLIVER E. WATSON, Dayton, Ohio. Filed May 17, 1919. Serial No. 297,849. 3 Claims. (Cl. 224—48.)

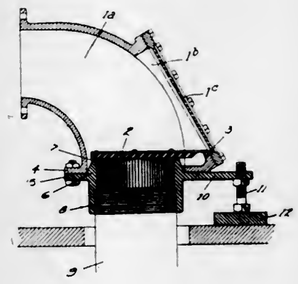
1. A metallic bottle crate comprising tubular side and end horizontal members, and upright members, connecting

blocks having right-angled tubular projections into which said members telescope, and metallic-band bottle holders



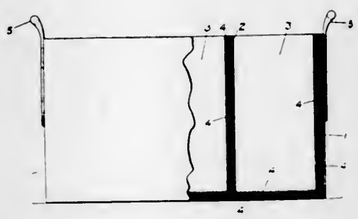
spot-welded together, supported by said tubular upright members within the crate.

1,341,870. ELBOW CHECK-VALVE. HERBERT J. WOOCK and WALTER R. WOOCK, Lodi, Calif., assignors to Superior Manufacturing Company, Lodi, Calif., a Corporation. Filed Mar. 31, 1919. Serial No. 286,357. 2 Claims. (Cl. 251—123.)



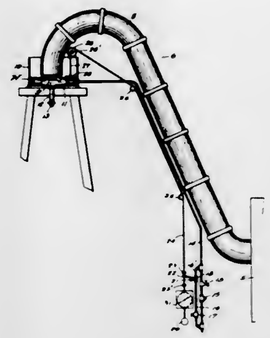
2. In combination with a pump and a suction pipe, an elbow check valve connecting the same, a horizontal extension at the lower end of the valve, and an adjustable bolt threaded into the extension and adapted to bear upon a support to carry the strain and weight of the suction pipe and elbow.

1,341,871. STORAGE-BATTERY CONTAINER. JOHN M. AHLGREN, Indianapolis, Ind. Filed Oct. 6, 1917. Serial No. 195,072. 1 Claim. (Cl. 206—2.)



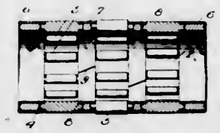
A battery container providing an exterior receiving and handling box and cell compartments in a single complete structure and consisting of an integral body of molded fibrous material forming the bottom and vertical walls and having vertical cross partitions integral with said body and forming in conjunction with said bottom and the end walls the battery cell compartments, and having a lining impervious to the acid of the battery and electrical action thereof on the interior surfaces of said body and partition.

1,341,872. DRAFT-REGULATOR. JAMES O. ANDERSON, Eugene, Oreg. Filed Oct. 8, 1919. Serial No. 329,395. 5 Claims. (Cl. 266—30.)



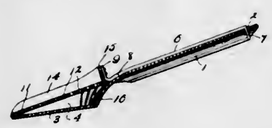
1. In an apparatus of the class described, the combination of a water container, a flue having at its upper end a return bend which extends into said container, means to supply water into said container to predetermined elevations and with respect to the discharge extremity of the flue bend whereby the draft in the flue may be regulated.

1,341,873. ROLLER-BEARING. OWEN G. ARNOT, Bakersfield, Calif. Filed Feb. 3, 1919. Serial No. 274,726. 4 Claims. (Cl. 64—62.)



1. A roller bearing comprising a cylindrical cage, annular series of rollers fitted in the cage, and resilient retaining bands sprung in the cylinder between the series of rollers to prevent inward displacement of the rollers.

1,341,874. SIFTING-SHOVEL. JULIUS C. BANDINI, Corona, N. Y. Filed Apr. 12, 1919. Serial No. 289,302. 3 Claims. (Cl. 83—60.)

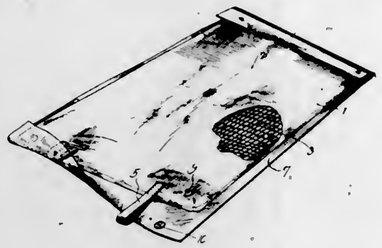


1. The combination with a shovel, of a sifting member comprising a perforated pan supported upon the shovel in spaced relation thereto, a handle member having one end thereof secured to said pan and the opposite end bent to provide a hook, said hook being engageable with the handle of the shovel to retain the pan in position.

1,341,875. SANITARY PAD. MARTHA V. BAUER, Washington, D. C. Filed Oct. 31, 1919. Serial No. 334,784. 4 Claims. (Cl. 128—290.)

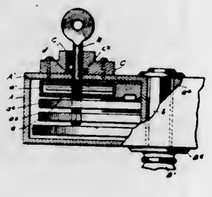
1. A pad comprising an absorbent pad member, a backing sheet of non-absorbent material having marginal por-

tions to be folded over upon corresponding marginal portions of the said absorbent pad member, and means for



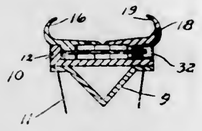
securing the said marginal portions of the sheet to the said pad member.

1,341,876. KEY-CHANGING COMBINATION-LOCK. WILLIAM T. BENHAM, Norwood, Ohio, assignor to The Mosler Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 18, 1918. Serial No. 229,309. 1 Claim. (Cl. 70—53.)



A key seating and guide device for use by attachment exteriorly to a tumbler lock, said device having a relatively long circular aperture adapted to receive and constitute an exclusive guide and bearing for a correspondingly formed key shank; and provided also with correspondingly elongated slot or "key seat" opening into said aperture, and adapted to receive a radial wing upon the key shank, only to the proper depth of key insertion for actuating all the tumblers, and further provided with a lateral cavity of depth and form to admit the wing of the key when in actuating position to swing through a quarter circle only and prevent linear movement of the key until returned to initial radial position.

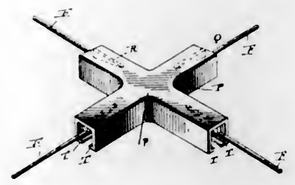
1,341,877. SECTIONAL WHEEL-RIM. PRESTON G. BEREMAND, Bay City, Mich. Filed Nov. 30, 1917. Serial No. 204,683. 9 Claims. (Cl. 152—21.)



1. In tire supporting means, similar sections, and fastening means connecting said sections and having pivotal and screw thread connection with one of the sections and detachable connection with the remaining section.

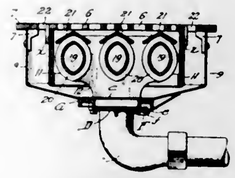
1,341,878. TROLLEY-GUIDE BOX AND SHIELD. GEORGE W. BOLDEN, Philadelphia, Pa. Filed Jan. 31, 1918. Serial No. 214,643. 1 Claim. (Cl. 191—38.)

A trolley guide box shield having inwardly projecting flanges on its lower edges, a triangular member secured to the roof thereof, an over head wire secured to the thick end of the triangular member at its lower edge and adapted to allow the free passage through the shield of the tri-



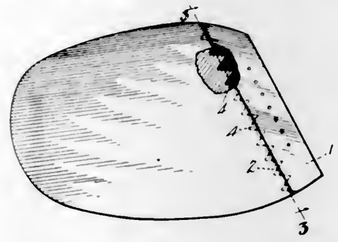
angular cut out and the upper portion of a trolley guide box on each side of the triangular member and of the bottom of the trolley guide box over the inwardly projecting flanges.

1,341,879. VEHICLE-HEATER. THOMAS BOVEY, Chicago, Ill. Filed June 18, 1917. Serial No. 175,324. Renewed Sept. 18, 1919. Serial No. 324,575. 17 Claims. (Cl. 257—136.)



6. A heater of the kind specified having a perforate top, a casing secured to and depending from the margins thereof, a heat radiating device including a plurality of horizontal pipes, a drop-wall which is expansible independently of the top and whose upper edge is in contact with and which depends from said top between said device and the casing but out of contact therewith, and deflectors below said perforated top that extend above and parallel to said pipes and whose ends are secured to said drop-wall.

1,341,880. REINFORCEMENT FOR THE SHANK EDGES OF SHOE-TAPS. HENRY BRUCK, Portland, Oreg. Filed Nov. 3, 1919. Serial No. 335,271. 7 Claims. (Cl. 36—31.)

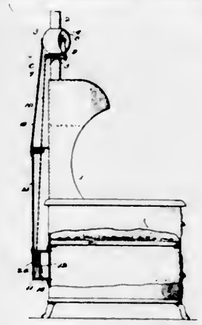


1. A reinforced shoe tap including the tap body and a reinforcing strip embedded in the shank edge thereof, said strip having one edge formed with a plurality of projections.

1,341,881. DAMPER. WILLIAM V. COATE, Celina, Ohio. Filed June 30, 1919. Serial No. 307,510. 2 Claims. (Cl. 236—45.)

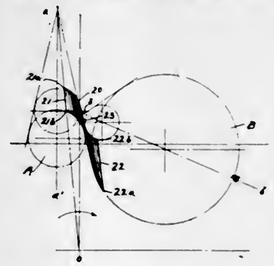
1. The combination with a heating plant comprising a fire-box and an escape flue, of a damper mounted between its upper and lower edges for oscillation in the wall of the escape flue under the influence of the draft there-

through, bearing lugs on the escape flue below said damper, a rocking frame encircling the flue and provided with knife edge bearings seating on the said lugs, the end of the frame nearer the damper overbalancing the opposite end thereof, a flexible connection between said damper



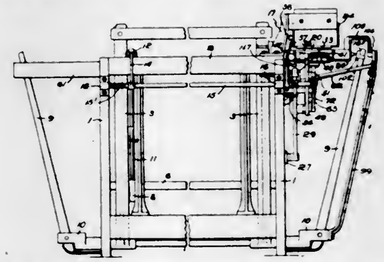
and the heavier end of the rocking frame, a damper mounted between its upper and lower edges for oscillation in the inlet to the fire-box, and a flexible connection between the lighter end of the rocking frame and the last-named damper.

1,341,882. CENTRIFUGAL FAN. ALBERT A. CRIQUI, Buffalo, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y., a Corporation of New York. Filed Sept. 7, 1915. Serial No. 49,193. 9 Claims. (Cl. 230—11.)



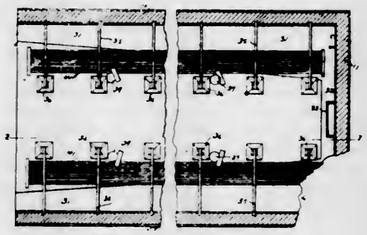
1. A centrifugal fan having a wheel provided with a plurality of blades, a portion of the surface of each being formed from a portion of the surfaces of two cones, each of said blades having a portion of its surface greater than a line included in a plane tangent to the surfaces of said cones.

1,341,883. WEFT-REPLENISHING LOOM. EDWARD A. CUNNIFF, New Bedford, JOHN V. CUNNIFF, Fall River, and JAMES K. LANNING, Boston, Mass.; said Edward A. Cunniff and said John V. Cunniff, assignors of their rights to said James K. Lanning. Filed Dec. 12, 1913. Serial No. 806,329. 117 Claims. (Cl. 139—85.)



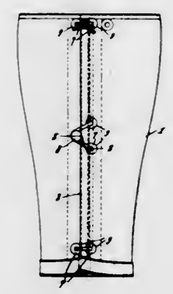
1. In a weft replenishing loom, a bobbin magazine, a shuttle box, a movable supporting arm in which said box is pivotally mounted, said shuttle box having an arch at one end to accommodate the picker stick, a guide on the arm for the picker stick, an oscillatory transfer lever, a member controlled by the filling failure and adapted to be disposed in the path of movement of the shuttle box in its movement toward the magazine, whereby said box is turned in its supporting arm to dispose the open side of the box contiguous to the discharge end of the magazine, and connecting means between said member and the transferring lever to automatically transfer a filled bobbin from the magazine to the shuttle.

1,341,884. DRYING-KILN. CLIFFORD A. CUTLER, Buffalo, N. Y. Filed Aug. 26, 1918. Serial No. 251,407. 10 Claims. (Cl. 34—46.)



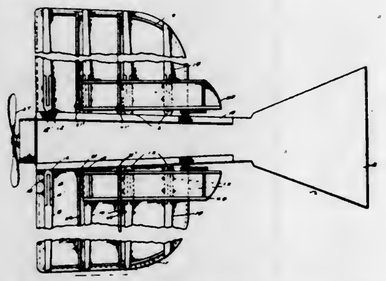
2. The combination with a kiln having walls, a ceiling and a false ceiling, of a plurality of supports arranged above the floor, air intakes in the ceiling, the false ceiling being formed with air openings, means for regulating the openings in the false ceiling, means for providing a plurality of air blasts arranged in the space between the floor and the supports, and an air exhaust duct opening near the bottom of the kiln.

1,341,885. LEGGING. ULYSSES S. DE MOULIN, Greenville, Ill. Filed May 14, 1918, Serial No. 234,434. Renewed Apr. 2, 1920. Serial No. 370,897. 3 Claims. (Cl. 36—2.)



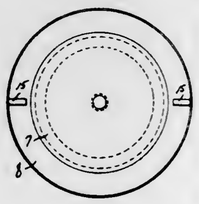
3. In a legging, a body of flexible material and open at one side to form overlapping side flaps each having a pocket throughout its length, a pair of flat stiffening bands in the pocket of each flap, the stiffening bands being spaced apart, and lace receiving members secured to the said flaps and having shanks extending between the opposite edges of the stiffening bands in the corresponding pockets of a flap and provided with flanges lying on opposite sides of the stiffening bands, whereby the stiffening bands will be spaced apart and the lace receiving members securely fastened in place.

1,341,886. AEROPLANE. JESSIE D. DENSON, Grand Rapids, Mich. Original application filed Nov. 5, 1918, Serial No. 261,260. Divided and this application filed Sept. 2, 1919. Serial No. 321,200½. 1 Claim. (Cl. 244—12.)



An aeroplane including a fuselage, laterally extending rib members having terminal pins engaged with the fuselage, the outer end portions of said members being bifurcated and terminally kerfed, outer rib members having longitudinal tongues engaged removably in the bifurcations of the inner members and having lugs at the sides of the tongues removably engaged in said kerfs, means for holding the rib members removably assembled, and sustaining planes with which the ribs are incorporated.

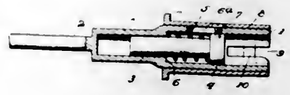
1,341,887. AUTOMATIC-SUPPLY HOG-FEEDER. ROBERT OTMERE DOHM, Dane, Wis. Filed June 6, 1919. Serial No. 302,319. 1 Claim. (Cl. 119—53.)



In a hog feeder, the combination with a foundation plate, a plate centrally disposed upon said foundation plate, a hollow post disposed in a central aperture and foundation plate and plate aforesaid and extending upward therefrom and provided with two slots adjacent its lower end, a hopper cylindrical in form disposed on said post, an inclined shelf disposed within said hopper and rigidly secured to said hopper, a collar slidably mounted on said post, a platform circular in form revolubly disposed on said post and resting on said collar, a band disposed peripherally of said platform and extending a distance upward therefrom, a conical member secured centrally on top of the platform and extending upward and around the post providing a top and supporting bearing for the platform, a pin passing through collar aforementioned and through slots in said post, a rod attached to said pin and extending upward through the post, said rod provided with a threaded portion, a handle disposed on said threaded portion of said rod for raising and lowering the said platform thereby regulating the distance between the aforesaid conical member and said inclined shelf within the hopper.

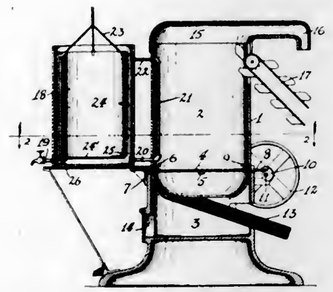
1,341,888. PACKING-TOOL. VERNON DOYLE, Seattle, Wash. Filed July 25, 1919. Serial No. 313,417. 3 Claims. (Cl. 81—3.)

2. A packing device comprising an inner sleeve and stem formed with an open end longitudinal slot and a peripheral oblique slot, a plunger in the inner sleeve, a spring interposed between the plunger and the inner sleeve, an outer sleeve having an open end angular slot to coöperate with and close the open end of the longitudinal



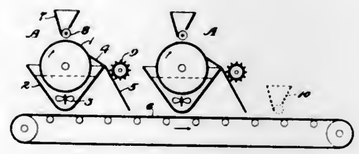
slot, and a connection between the inner and outer sleeves and passing through the oblique slot, whereby, when the sleeves are moved longitudinally with respect to each other a circumferential movement between said sleeves is created.

1,341,889. WOOD-ASH FURNACE AND EXTRACT-BOILER. EDWARD W. EISENHAUER, Jr., Los Angeles, LOUIS F. FLORMANN, Silver Lake, and EMIL C. A. WOLTMANN, Los Angeles, Calif. Filed Jan. 28, 1919. Serial No. 273,624. 5 Claims. (Cl. 23—22.)



1. A furnace for the described purpose comprising a shell having a combustion chamber and an ash pit; a grate in the shell dividing said chamber from the pit; means for continuously agitating said grate comprising a rotatable cam coöperating with a part on said grate to raise and lower the same; and means affecting the material falling through the grate to obtain the ash free from coals.

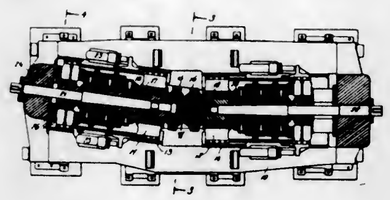
1,341,890. METHOD OF PREPARING FINE ORES FOR SINTERING AND THE PRODUCT THEREOF. FREDERIC A. EUSTIS, Milton, Mass. Filed May 21, 1919. Serial No. 298,685. 3 Claims. (Cl. 75—78.)



1. The method of preparing fine ore for sintering, which comprises making the ore into a filter cake, and sticking finely divided particles of fuel to the outside surface of the filter cake.

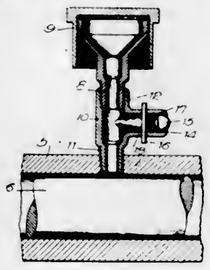
1,341,891. ADJUSTABLE MILL FOR ROLLING CIRCULAR SECTIONS. BENJAMIN F. FAUNCE, Johnstown, Pa. Filed July 29, 1919. Serial No. 314,064. 5 Claims. (Cl. 80—16.)

5. In a mill for rolling circular sections, carriages having rotatable dies mounted therein, one of said carriages being normally held in a fixed position, means for slidably supporting said carriages, an abutment for one of said carriages, spacers with supporting hooks formed thereon, for adjusting the position of one of said carriages,



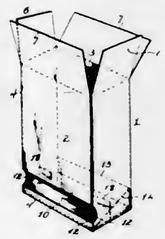
and rods co-acting with the hooks on said spacers for supporting them, said spacers having slots formed therein to permit of their being readily slipped over the shaft supporting the die carried by one of said carriages.

1,341,892. LUBRICATING APPARATUS. DOUGLAS F. FESLER, Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company, a Corporation of Delaware. Filed Apr. 21, 1919. Serial No. 291,575. 4 Claims. (Cl. 184—89.)



4. As an article of manufacture, a coupling member comprising a tubular member having internal threads at one end and external threads at the other end, a tubular extension communicating with said tubular member, an inwardly-opening spring-pressed closure for the free end of said tubular extension, and means on said tubular extension for detachably connecting the discharge conduit of a grease gun with said tubular extension.

1,341,893. DISPENSING AND DISPLAYING CARTON. RAY H. FITZ GERALD, Pittsburgh, Pa. Filed June 23, 1919. Serial No. 306,195. 6 Claims. (Cl. 229—17.)

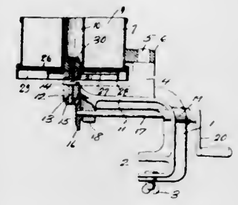


4. The combination of the body portion of a carton having a discharge opening in its lower portion, a bottom member within said body portion and forming in a single piece a platform inclining in a direction toward said discharge opening and a part provided with tongues projecting upwardly through said platform in positions spaced rearwardly from the front lower edge of said platform.

5. The combination of the body portion of a carton having a discharge opening in its lower portion and a bottom member within said body portion and comprising in a single piece, a platform inclining from the back to the front of the carton, a vertical member lying against the back member of the carton and a bottom portion provided with an upturned flange under the platform in a position rearwardly of the front edge of the latter, said flange having upstanding tongues extending through and projecting upwardly beyond said platform.

6. The combination of the body portion of a carton having an elongated discharge opening in its front portion above the bottom of said front portion, thereby forming a flange below said discharge opening, an inclined platform extending from the rear member of the carton to the front portion thereof below the upper edge of said flange, and tongues projecting upwardly from said platform and spaced rearwardly from the front edge thereof.

1,341,894. ROTARY VEGETABLE-SLICER. OGDEN A. FREEMAN, Rockwood, Colo. Filed July 31, 1918. Serial No. 247,612. 4 Claims. (Cl. 146—11.)



1. A rotary vegetable cutter comprising a rotatable support, a cutting element comprising an annular band and a central hub mounted on the said rotatable support, a plurality of double edged blades extending from the hub to the said band and disposed to lie in a horizontal plane, removable rods releasably connected with the band and with the said rotatable support to maintain the band in position for holding the said knives rigidly, and means to actuate the said rotary support.

1,341,895. WIRE-TWISTING DEVICE. AUSTIN A. GAMBLE, Artesia, Calif., assignor to Guy B. Gamble, Artesia, Calif. Filed June 18, 1918. Serial No. 240,588. 8 Claims. (Cl. 140—118.)

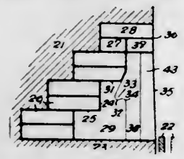


4. A device of the character disclosed, comprising a casing, dogs pivoted in said casing, said casing being provided with opposed slots, adapted to be over-ridden in part by said dogs, and a cam member in said casing for operating said dogs; a brace being provided by which said cam member is operated.

1,341,896. FURNACE CONSTRUCTION. JOHN W. GATES, Montreal, Quebec, Canada. Filed Feb. 12, 1918. Serial No. 216,795. 11 Claims. (Cl. 110—86.)

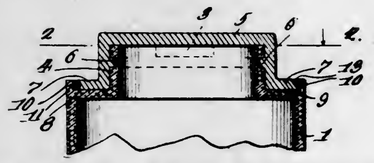
10. In furnace construction, a wall having a recess from the level of the grate upward adapted to removably

receive lining blocks, lining blocks in said recess comprising separable backing and facing portions, and means



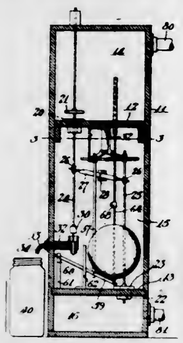
holding the backing and facing portions against separation in the wall recess.

1,341,897. JAR-CLOSURE. QUINCY A. GATES, Wilkes-Barre, Pa. Filed Feb. 14, 1919. Serial No. 277,065. 1 Claim. (Cl. 215—81.)



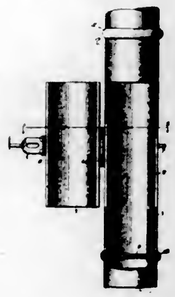
The combination of a jar having an upstanding neck with segmental cutout portions in its mouth around the perimeter thereof, said neck also having peripherally disposed grooves on its inner face connecting said cutout portions below the outer edge of the neck and a cap like closure for said jar with an annular outstanding flange on the edge thereof, the periphery of which is beveled on its upper face said closure also having locking segmental ribs on the inner face of the side walls thereof adapted to register with the cutout portions of the neck of the jar and to enter the grooves thereof when a partial turn is imparted to the closure, said jar having an upstanding flange forming a groove between it and the beveled edge of the closure to receive a sealing material.

1,341,898. OIL-WELL METER AND SAMPLER. HARRY W. GENDAR, Lost Hills, Calif. Filed Aug. 25, 1919. Serial No. 320,041. 1 Claim. (Cl. 73—28.)



A meter comprising walls forming a storage chamber; walls forming a measuring chamber; walls forming an outlet chamber; an upper partition forming the bottom of the storage chamber and the top of the measuring chamber having an opening therein; a lower partition forming the bottom of the measuring chamber and the top of the outlet chamber having an opening therein; an upper valve adapted to close the opening in said upper partition; a lower valve adapted to close the opening in said lower partition; means actuated by the level of the fluid in said measuring chamber for actuating said valves, and means for drawing a measured sample from said measuring chamber at each actuation of said valves.

1,341,899. SAFE. AARON HIRSCH GERNSBACHER, New Orleans, La. Filed Feb. 2, 1920. Serial No. 355,546. 4 Claims. (Cl. 5—41.)



4. In a bed, the combination with the hollow post, of partitions arranged in transverse relation to form a receptacle within the hollow, said post having a door opening between the partitions and a door for closing the opening.

1,341,900. HOPPLE. BERNARD HANLON, Lethbridge, Alberta, Canada. Filed Jan. 20, 1919. Serial No. 272,171. 1 Claim. (Cl. 119—128.)

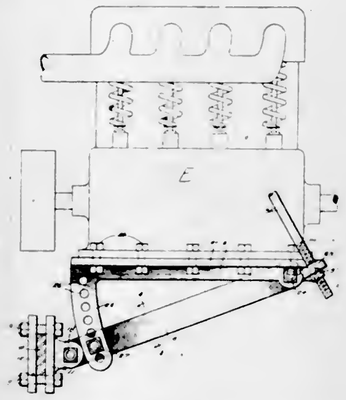


A hopple of the class described, comprising an outer strap equipped at one end with a buckle and having its other end adapted to be passed through the buckle and secured thereto, a separate inner strap having an intermediate portion adjacent to one end thereof secured to the outer strap in immediate proximity to the buckle to provide a fixed flap permanently underlying the buckle and extending therebeyond, the outer end of the inner strap being made of gradually diminishing thickness and secured to the outer strap at a point located the maximum possible distance from the first point of connection between the straps, in order to provide a clear space between said straps which will extend almost entirely around the leg of the animal when the hopple is attached, and a ring freely movable between said straps to a position on either side of the buckle.

1,341,901. TREATMENT OF IRON ORES. CARLE R. HAYWARD, Quincy, FREDERICK O. STILLMAN, Cambridge, and HENRY M. SCHLEICHER, Boston, Mass., assignors, by mesne assignments, to Mon Iron & Development Corporation, Dover, Del., a Corporation of Delaware. Filed July 24, 1918. Serial No. 246,471. 23 Claims. (Cl. 252.)

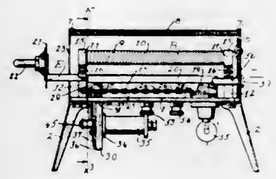
1. The method of treating an iron ore containing incidental metals consisting of aluminum and one or more of the metals nickel, manganese and chromium, which comprises subjecting the ore to a sulfating roast adapted to render soluble a large proportion of the incidental metals while rendering only a small proportion of the iron soluble; thereafter leaching the roasted products to produce on the one hand a beneficiated iron ore residue, and on the other hand a liquor containing sulfates of iron and of the incidental metals; thereafter evaporating the liquor, leaving dried sulfate salts; thereafter roasting the dried sulfate salts to drive off sulfurous gas and produce oxids of the contained metals; and thereafter recovering the alumina from said oxids.

1,341,902. ENGINE-SUPPORT. NED E. HILDRETH, Lincoln, Nebr. Filed Sept. 22, 1919. Serial No. 325,456. 4 Claims. (Cl. 248—30.)



1. In an engine support for harvesters and the like, a pair of plates, means for securing said plates upon a side bar of the harvester, braces adjustably secured to said plates, an engine base receiving portion, means for securing the outer ends of said braces to said base receiving portion, downwardly extending portions formed upon the under side of said base receiving portion adapted to slidably engage said braces, and means for adjustably securing said downwardly extending portions to said braces.

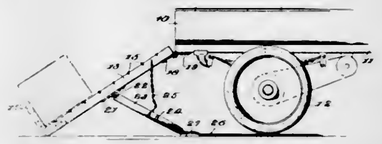
1,341,903. OVEN OR FURNACE. GEORGE M. HOLLENBACK, Los Angeles, Calif. Filed Feb. 7, 1920. Serial No. 356,862. 15 Claims. (Cl. 219—35.)



1. In a dental oven, the combination with a housing, including side and end walls, a cover and a bottom, said cover and side walls being integrally formed, inwardly projecting flanges on the periphery of said end walls, and the horizontal edges of the side walls, whereby the housing members may be readily disassembled or held together when assembled; a heating element disposed within the housing, and a thermostat exposed to the heat of the oven and controlling said heating element.

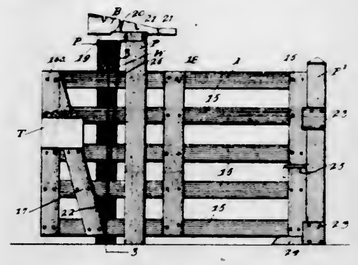
1,341,904. LOADING-SKID. BURTT J. HUBBARD, Kokomo, Ind., assignor of one-half to John Thomas Powell, Pittsburgh, Pa. Filed June 29, 1918. Serial No. 242,544. 2 Claims. (Cl. 214—81.)

1. A loading skid including a skid proper adapted for swinging connection at one end with a vehicle, fulcrum means pivotally connected with the skid proper, and traction means for anchoring said fulcrum means and supporting the fulcrum means to rock thereon, the fulcrum



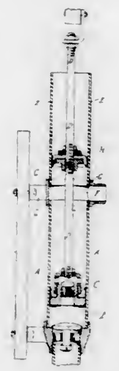
means being provided with pointed lower end portions and the anchoring means being freely detachable whereby the pointed lower end portions of the fulcrum means may be permitted to engage directly with the ground.

1,341,905. FARM-GATE. THOMAS HUSTON, Kokomo, Ind. Filed Dec. 1, 1919. Serial No. 341,631. 5 Claims. (Cl. 39—87.)



1. In combination, a pair of spaced posts disposed in different vertical planes, a gate working between said posts, and flexible means for holding one end of the gate in suspension comprising a wire loop and a notched block adjustable on said post.

1,341,906. CONSTRUCTION OF FORCE OR LIFT PUMPS. DAVID BROWN HUTTON, Waiuku, New Zealand. Filed July 9, 1919. Serial No. 309,726. 1 Claim. (Cl. 103—56.)



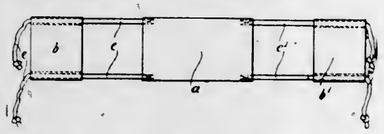
In a pump, a cylinder, a sleeve extending axially with the cylinder, a union member connecting said cylinder and said sleeve and provided with a discharge opening and also with an attaching bracket, a plunger rod extending through the cylinder and sleeve, a valved plunger at the lower end of said rod, and a piston also attached to said rod and arranged to operate in the sleeve.

1,341,907. RESILIENT SPOKE. ILION ILIEFF, Detroit, Mich. Filed July 11, 1919. Serial No. 310,223. 2 Claims. (Cl. 152—52.)



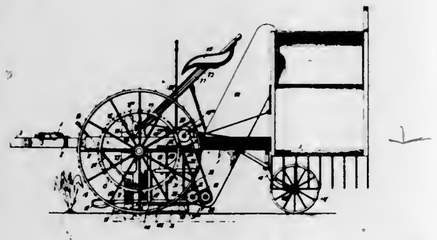
1. A spoke for a wheel consisting of a single strand of material having an intermediate portion formed into a helical spring, the opposite end portions of the strand being reversely directed through the helical spring.

1,341,908. LIFE-SAVING APPLIANCE. FINCH PORTMAN INGRAM, Fairlight, England. Filed Apr. 23, 1917. Serial No. 163,979. 1 Claim. (Cl. 9—17.)



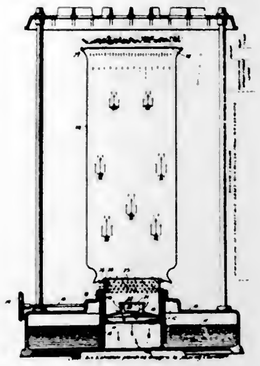
A life saving appliance for use on water, and comprising spaced buoyant members arranged to extend around the body of the user, and flexible connecting means, including running tapes, at the upper and lower portions of and between said members, and coacting with said members to form arm openings and also adapting said appliance to be gathered and fastened at points slightly above the shoulders and also below the arm pits.

1,341,909. BEET-TOPPING MACHINE. WALTER L. JOHNSTON and FRED L. JOHNSTON, Sidney, Nebr. Filed July 12, 1916. Serial No. 108,863. 2 Claims. (Cl. 55—9.)



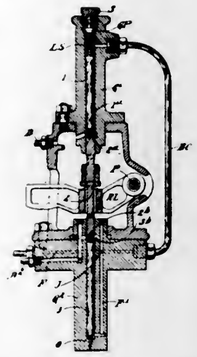
1. The combination with the frame of a beet topping machine having beet lifting members and topping mechanism suspended thereunder, of beet gripping and conveying members suspended from said frame and rigidly supported to lie beneath said topping mechanism and in close proximity to the ground surface beneath said frame and with their receiving ends disposed closely adjacent the discharge end of said beet lifters, and a severed beet top conveyer disposed above said beet gripping conveyer and just above the topping mechanism so that the latter is closely spaced to and shielded between said conveyers, said beet top conveyer projecting forwardly over and beyond the said beet lifters and curved outwardly and downwardly to provide guiding means between the conveyers and toward the said shielded topping mechanism.

1,341,910. HYDROCARBON-BURNER. ALFRED KAUFMAN, New York, N. Y. Filed June 19, 1919. Serial No. 305,215. 5 Claims. (Cl. 158—88.)



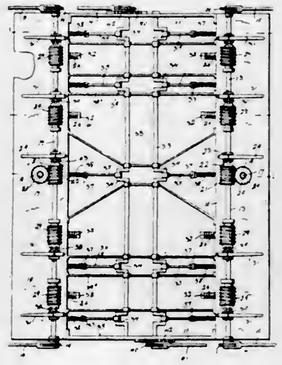
1. The herein described hydrocarbon burner comprising an initial gas generator, a tubular neck member within the generator space, a dome extending upward from the point of gas generation and supported by said neck member, said neck member being provided with perforations at different levels, the gas passing inward therethrough at one level and fresh air passing inward at a different level, said dome being imperforate along its side walls and forming a chamber for the conversion of the products of combustion and air into a perfect hydrocarbon vapor, and a reticulated plate carried by the upper end of the dome above which said vapor may be ignited and burned with a blue flame and intense heat.

1,341,911. FUEL-INJECTION VALVE FOR OIL-ENGINES. KARL OTTO KELLER, Sunderland, England, assignor of one-half to Robert Pile Doxford, Sunderland, Durham, England. Filed Dec. 9, 1918. Serial No. 265,876. 3 Claims. (Cl. 123—30.)



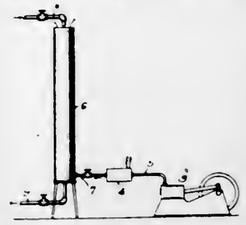
3. In a fuel injection valve, the combination with a smaller guide constituting a cylinder, said cylinder having a fuel inlet port situated at one end thereof and having a fuel passage leading to said port by way of the end of the cylinder adjacent thereto, a larger cylindrical guide, a normally closed needle valve controlling said port and arranged to open upwardly in a direction reverse to that of the flow of the fuel and having a two-diameter stem whereof the part of smaller diameter constitutes a piston in the smaller guide and the part of larger diameter constitutes a ram in said larger guide, of means for subjecting the end of said ram remote from said port to the downward fuel pressure that acts upwardly on the end of said piston adjacent to said port, for the purpose specified.

1,341,912. TRACK-ADJUSTING MACHINE. JOHN KNUTSEN, Bowden, Alberta, Canada, assignor of one-half to Charles Louttit, Prince George, British Columbia, Canada. Filed Aug. 6, 1919. Serial No. 315,699. 6 Claims. (Cl. 104—7.)



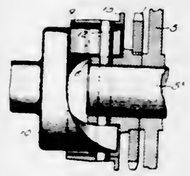
1. A track handling machine comprising a car having wheels adapted to run upon a track, vertically movable jacks formed at their lower ends to engage beneath the the opposite rails of a track, laterally movable jacks mounted upon the car and engageable against the sides of the rails, and means on the car for operating said jacks.

1,341,913. PROCESS FOR REMOVING PHENOL AND OTHER AROMATIC HYDROCARBONS FROM WATER OR OTHER LIQUIDS. ROSS M. LEGGETT, Akron, Ohio, assignor to Ozone Company of America, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 23, 1918. Serial No. 268,024. 3 Claims. (Cl. 210—16.)



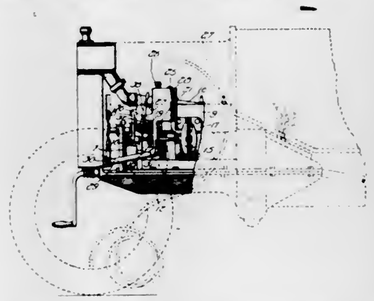
1. The process of removing phenol or other aromatic hydrocarbons from water or other liquids containing phenol or other aromatic hydrocarbons which consists in coagulation of the mixture under treatment followed by sedimentation and removal of the sediment from the liquid and thereafter ozonizing said liquid.

1,341,914. CRANK-SHAFT TRANSMISSION-PULLEY. JOHN W. B. LADD and RALPH E. RICH, Chicago, Ill. Filed Apr. 21, 1919. Serial No. 291,635. 11 Claims. (Cl. 74—28.)



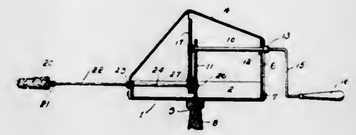
1. In a device of the class described the combination of a shaft having a transverse hole therein located a predetermined distance from the end of said shaft, a pulley comprising a boss having diametrically opposite holes therein, a concentric rim, spokes connecting said boss and rim, a pin passing through the holes in the boss and shaft and extending toward the rim in the same plane as said spokes, and a gear connected to said pulley.

1,341,915. COMBINED WATER AND AIR PUMP FOR AUTOMOBILES. JOHN W. B. LADD and RALPH E. RICH, Chicago, Ill. Filed June 27, 1919. Serial No. 307,186. 19 Claims. (Cl. 123—175.)



1. The combination with an internal combustion engine having a water cooling chamber, of a water pump that forces the water through said chamber, an air pump, and common means actuated by said engine for operating said water pump and air pump.

1,341,916. ROTARY TOOTHBRUSH. BASIL W. LEACH, Golconda, Nev. Filed June 30, 1919. Serial No. 307,533. 1 Claim. (Cl. 15—37.)



A rotary tooth brush including a base plate having upstanding side, front, and rear flanges, a vertical bearing post arranged centrally upon said base plate, longitudinally extending vertically spaced parallel shafts having their inner end portions journaled through said bearing post and their outer end portions journaled through said front and rear flanges, the outer portions of said shafts being formed with sockets, coacting gears mounted on the inner portions of said shafts adjacent said bearing posts, a brush having an elongated shank connected to the socket of one of said shafts, a crank handle detachably connected to the socket of the other shaft, and a hood having depending side and end walls surrounding and detachably connected to said upstanding flanges of the base and having slots opening out through the lower edges of their end walls and receiving the extended portions of said shafts.

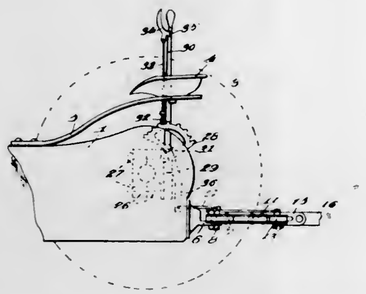
1,341,917. BUMPER FOR AUTOMOBILES. WALTER P. LIMACHER, Pasadena, Calif. Filed Mar. 22, 1920. Serial No. 367,807. 3 Claims. (Cl. 293—55.)



1. A bumper comprising a main body and end horns hinged thereto, said end horns overlapping the ends of said

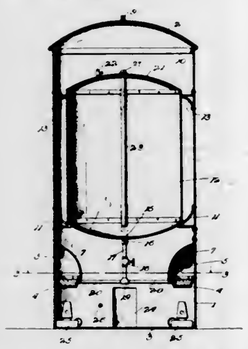
main body, the overlapped end portions of the main body being inwardly offset so that the overlapping ends of said end horns and main body will present plane outer surfaces.

1,341,918. HITCH. LINDSEY H. LOGAN and ARCHIE F. LOGAN, Spokane, Wash. Filed July 28, 1919. Serial No. 313,714. 3 Claims. (Cl. 213—67.)



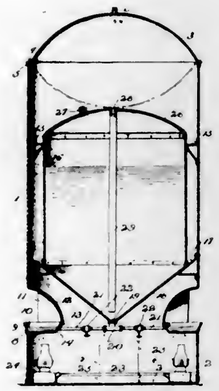
1. A hitch mechanism comprising in combination, a hitch frame having a drawbar member extending transversely of the line of draft for connection with the drawbar of a tractor, a track member extending parallel with said drawbar member and in spaced relation thereto, end frame members rigidly connected with said drawbar and track members to form a rigid hitch frame, a draft carriage slidable laterally of the line of draft on saind track member for connection with the implement to be drawn, a carriage adjusting lever device for application to the tractor, a bell crank lever pivoted on said hitch frame, and links connecting said bell crank lever with said carriage and lever device whereby said carriage may be shifted laterally of said frame to vary the line of draft with respect to the drawbar of the tractor.

1,341,919. HOG-WATERER. LESLIE CAIUS MCCARTNEY, Lincoln, Nebr. Filed Jan. 24, 1919. Serial No. 272,876. 1 Claim. (Cl. 119—73.)



An apparatus for the purpose set forth comprising a substantially cylindrical casing, a trough in the lower portion of the casing and supported by the wall of the same, a substantially cylindrical tank in the casing above the trough having a vent in its upper end and having a concave lower end, a valved outlet pipe leading from the lowest point of the lower end of the tank into and through the side of the trough, the upper end of said outlet pipe being removably secured to the tank, a filling pipe secured at its upper end in the top of the tank and having its lower end within the tank and spaced from the bottom of the same, and an arched cover for the casing having a central nipple normally forming an air outlet for the casing and adapted to engage in the upper end of the feed pipe when the cover is inverted, the cover being supported by the upper end of the casing in both its normal and its inverted positions and the tank being spaced throughout its extent from the casing.

1,341,920. HOG-WATERING FOUNTAIN. LESLIE C. MCCARTNEY, Lincoln, Nebr. Filed July 16, 1919. Serial No. 311,234. 1 Claim. (Cl. 119—73.)

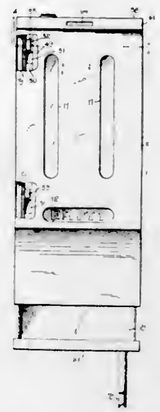


The improved stock-watering apparatus herein described and shown consisting of a cylindrical casing having open ends and provided with drinking openings in its wall, the edge of the wall at the bottoms of the drinking openings being inclined outwardly, inwardly extending vertical walls at the sides of said openings, an arched back wall at each opening connecting the inner edges of said vertical walls, the lower edges of said back walls being inclined downwardly and outwardly, flared troughs seated on the inclined edges of the casing wall and the respectively adjacent back walls, a tank supported in the casing and spaced therefrom throughout its extent, said tank having a tapered lower end, a coupling threaded into said tank at the lowest point of the same, pipes leading from said coupling into the troughs through the inner walls of the same, controlling valves in said pipes between the coupling and the respective troughs, a vent in the upper end of the tank, a feed pipe secured in and depending from the upper end of the tank, and an arched cover provided with a nipple at its center adapted when the cover is inverted to enter the upper end of the feed pipe, said cover having a radial annular flange and a rim extending from said flange whereby in either position of the cover there will be a portion extending across and resting on the edge of the casing wall and a circular portion engaging the said wall to positively center the cover on the casing.

1,341,921. VENDING-MACHINE. JAMES H. MANN, Jr., Little Rock, Ark., assignor to Transit Vending Machine Company, Pine Bluff, Ark., a Corporation of Arkansas. Filed Mar. 9, 1918. Serial No. 221,509. 4 Claims. (Cl. 194—1.)

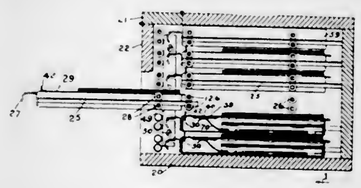
1. In a vending machine, a magazine case stamped from a single metal sheet and having a rear wall and parallel side walls, article delivery mechanism mounted upon said rear wall, said wall having guide tongues struck therefrom to retain various parts of the delivery mechanism in close contact with said wall and in their proper relative operative positions, each of the side walls of the case being provided with inwardly struck guide

tongues and flanges, and a cover plate for said mechanism longitudinally movable downwardly between the side walls



of the case and coacting at its edges with said tongues and flanges whereby the cover plate is frictionally held in its applied position.

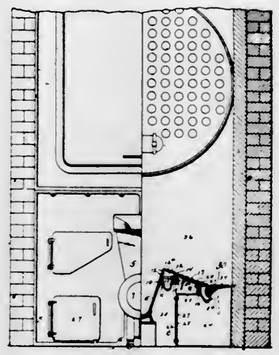
1,341,922. CREDIT-ACCOUNT REGISTER. HAAKON A. MARTIN, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed Apr. 12, 1916. Serial No. 90,555. 12 Claims. (Cl. 45—2.)



1. In a credit account register, the combination with a suitable casing, of filing units slidably mounted therein and each comprising a plurality of sections, stops on the filing units, a strip slidably mounted in the path of movement of said stops to limit the outward movement of the filing units to less than the full extent of their withdrawal in which position said cabinet renders a section of said unit inaccessible, notches in said strip normally out of alinement with said stops, said strip being adjustable at will to bring said notches into alinement with said stops whereby additional outward movement of said filing units is permitted, in which latter position the inaccessible section is rendered accessible.

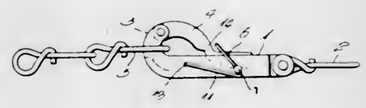
1,341,923. MECHANICAL STOKER. JOHN G. MIDGLEY, Salt Lake City, Utah. Filed Jan. 2, 1918. Serial No. 209,989. 11 Claims. (Cl. 110—44.)

2. In a furnace construction, the combination with a longitudinally extending open top retort of means for feeding coal thereinto, inclined combustion plates, the space above which constitutes the combustion chamber, twyer blocks disposed at the upper edges of the retort and having ports directed outwardly from the twyer blocks over the inclined plates, said plates having additional ports leading therethrough from the bottom to the top thereof at intervals from the twyer blocks outwardly, division walls dividing the space beneath each combustion plate and retort into ash pits and an air plenum, said division walls comprising a vertical portion and a substantially horizontal portion the latter extending a material distance outwardly beyond the vertical portion to thereby cause the ash pit space to project beneath the



combustion plates while leaving the ports formed through the combustion plates in communication with the air plenum and means for supplying air under pressure to the air plenum, the interior of the twyer blocks being in communication with the air plenum.

1,341,924. TIRE-CHAIN FASTENER. ELIJAH M. NELSON, Villisca, Iowa. Filed Sept. 15, 1919. Serial No. 323,730. 2 Claims. (Cl. 24—241.)

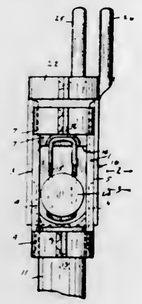


2. In a tire chain fastener, a hook-shaped member having a perforation in one side thereof, a latch arm pivoted to the bill of said hook-shaped member and adapted to swing in closer relation to the shank of the hook member, a rock shaft extending through and beyond the shank of the hook member, the extended portion thereof being provided with holes, a latch retaining member composed of a single piece of wire having one of its ends extending through the hole in one end of the rock shaft, a portion of said wire being bent between its ends to form a substantially U-shaped loop which is adapted to straddle the latch arm when the latter is in operative position, the opposite end of the wire being extended through the hole in the other end of the rock shaft and then bent laterally with respect to said rock shaft, the extremity of said wire being bent laterally to enter the perforation in the shank of the hook-shaped member, substantially as described and for the purposes set forth.

1,341,925. AUTOMOBILE-LOCK. WILLIAM B. NIMMO, Santa Ana, and CHARLES S. SWAIM, Long Beach, Calif.; said Swaim assignor of his right to Jesse C. Nimmo, Los Angeles, Calif. Filed Aug. 18, 1919. Serial No. 318,386. 2 Claims. (Cl. 70—129.)

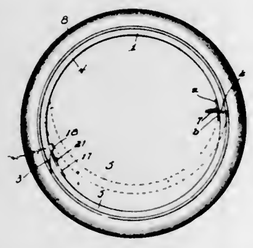
1. In an automobile lock, a block adapted to be fixed positively upon a steering post casing having grooves in its side faces, a second block slidably mounted upon

the first block having tongues fitting the grooves of the first block, a fork extending upwardly integral with the



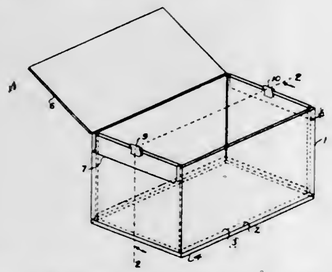
sliding block adapted to straddle a spoke of a steering wheel, and means for locking the second block to the first block in a raised position.

1,341,926. SPLIT DEMOUNTABLE RIM. ELMER OLIVER, Daytona, Fla. Filed Oct. 22, 1919. Serial No. 332,371. 3 Claims. (Cl. 152—21.)



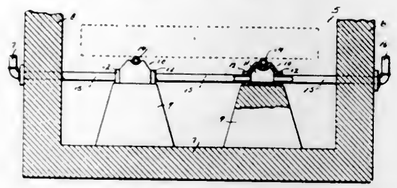
1. A trans-split demountable rim comprising sections having interlocking ends, each of such ends being cut away on one side of its center to provide a recess and having a projecting portion on the opposite side of its center, the recess of each section receiving the tongue of the other section, and U-shaped abutment plates upon the inner face of each section, each comprising a body portion secured to the rim section and arms projecting therefrom, one of said arms projecting beyond the edge wall of the recess at one side of said section and the other arm projecting over upon and terminating short of the edge of the tongue of said section.

1,341,927. CONTAINER WITH ADJUSTABLE FALSE BOTTOM. THOMAS C. POTTS and ADVANCE R. MANN, Holtville, Calif. Filed June 9, 1919. Serial No. 302,900. 2 Claims. (Cl. 217—64.)



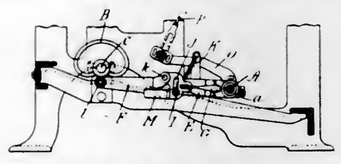
1. The combination with a container having straight walls, of a false bottom adapted to fit upon the main bottom of the container, sheets adapted to lift the false bottom and fold over the edges of the container, and means for engaging and holding the sheets to support the false bottom.

1,341,928. RAIL-BLOCK FOR FURNACES. GEORGE J. RENNIE, Buffalo, N. Y. Filed Apr. 14, 1919. Serial No. 289,986. 4 Claims. (Cl. 263—2.)



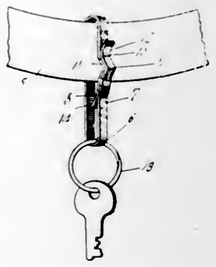
1. The combination with a furnace, of a plurality of rail blocks, each comprising a hollow body, each side of each block being provided with a threaded pipe connection, and pipes connecting oppositely arranged blocks, whereby a cooling fluid may be conducted through the blocks.

1,341,929. TERRY-LOOM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 14, 1919. Serial No. 330,541. 7 Claims. (Cl. 139—65.)



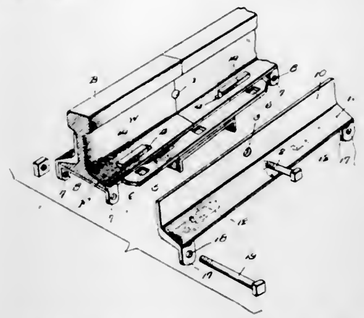
1. A terry loom having, in combination, a rocking beat-up motion shaft; a crank arm fast thereon; a connector loose on said shaft; a pattern controlled latch adapted to lock said crank arm to the connector; a rotary open faced cam; a transmitter having a cam roll bearing against said cam; a knuckle joint connection between said transmitter and connector; and a spring between said connector and transmitter acting to maintain the cam roll against the cam.

1,341,930. KEY-RING HOLDER. BROCK R. ROBLIN, Rochester, N. Y., assignor to Wayne Specialty Manufacturing Corporation, Rochester, N. Y. Filed Sept. 11, 1919. Serial No. 323,057. 1 Claim. (Cl. 24—3.)



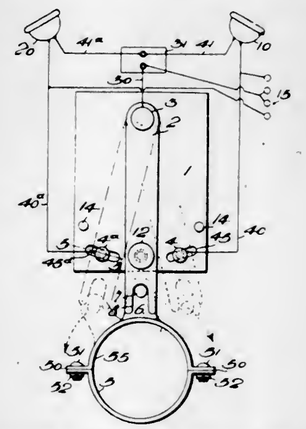
A key ring support including a rear wall and a front wall, said front wall comprising a pair of opposed arms, said arms having irregular portions, said irregular portions adapted to engage each other, one of said arms extending inwardly and terminating at a point in close proximity with the rear wall of the support, for dividing the support into an upper and lower section, the opposite arm having a curved end portion, for camming a key ring into the lower section of the support.

1,341,931. RAIL-JOINT. NOBLE H. ROE, Marceline, Mo. Filed July 21, 1919. Serial No. 312,310. 6 Claims. (Cl. 238—216.)



3. In a rail joint, the combination with meeting rails whose base flanges have longitudinal slots near their extremities; of a base plate below said flanges having lugs standing within their slots, fish plates having feet overlying the flanges and provided with sockets receiving the upper ends of the lugs, and means for clamping the plates in position.

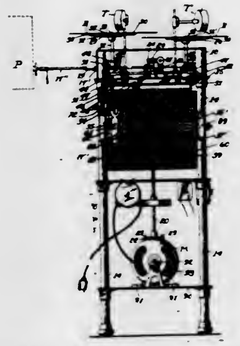
1,341,932. CIRCUIT-CONTROLLING SWITCH FOR HEADLIGHTS. DAVID H. ROSS, Long Beach, Calif. Filed July 3, 1919. Serial No. 308,529. 3 Claims. (Cl. 200—59.)



3. A controlling switch of the character described comprising a base member, a pair of oppositely disposed contacts on the base member, a resilient switch lever pivotally secured to the base member and adapted to be swung laterally to engage with either of said contacts, the free end of said lever being forked, a rotatable rod, a collar clamped on said rod and including a radially projecting arm having a stud adapted to project into the forked end of said resilient switch lever, and a pair of supplemental pivotally disposed contacts adapted to be engaged by the switch lever for holding said lever out of engagement with the first mentioned pair of contacts and from being engaged by the said actuating stud at times.

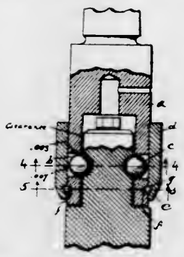
1,341,933. MOTION-PICTURE AND SOUND-REPRODUCING APPARATUS. JOSEPH G. SALTZMAN, Brooklyn, N. Y., assignor to Acousti-Scope Corporation, a Corporation of New York. Filed Mar. 15, 1915, Serial No. 14,339. Renewed Oct. 3, 1919. Serial No. 328,316. 15 Claims. (Cl. 88—16.2)

1. The combination with a machine having a drive shaft for projecting pictures in successive sequence and a sound reproducing machine having a drive shaft, of means to couple the drive shafts of said machines together and operative to synchronize a picture being projected with the record reproduced by the sound reproducing machine, comprising a gear fixed to the driving shaft of one of said machines, pinions revoluble with the driving shaft of the other machine and in mesh with the gear to couple the shafts together and normally revolve the two shafts at the same speed, manually operative means to rotate said pinions independent of their movement with the shaft to retard or increase the speed of the one shaft relative to the other, and a source of power connected to one of said machines.



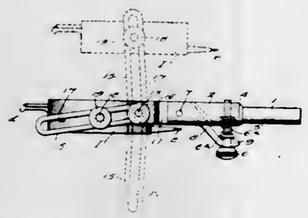
4. In apparatus of the class specified, the combination of a machine to take or project pictures in successive sequence; a sound reproducing machine having a pair of record carriers; means to simultaneously drive the both machines; a clutch for each of the record carriers to operatively connect them to the driving means; means to normally maintain one of the clutches in inoperative position and its coöperating record carrier inoperative; a shifter for each clutch; a latch to coöperate with either one of said shifters to maintain its connected clutch in inoperative position; and means to actuate said latch at a predetermined time to cause either of the clutches to be thrown into operative position and connect its coöperating record carrier to the driving means, comprising a tripper, and means to actuate said tripper.

1,341,934. TOOL-HOLDER. GUSTAV C. SCHOENBORN, Detroit, Mich., assignor, by mesne assignments, to Manufacturers Machine Products Co., Detroit, Mich., a Corporation of Michigan. Filed Apr. 23, 1919. Serial No. 292,202. 6 Claims. (Cl. 279—81.)



1. In a tool holder, the combination of an open-ended barrel provided with a pair of balls movable in and out of perforations in the barrel, and a movable sleeve on the barrel having portions to hold the balls projected into the barrel and portions to allow the balls to retreat from the interior of the barrel, the said balls being arranged in a diametrically opposite position to allow the tool shank to pivot thereon and having sufficient clearance, when the shank is in place and the sleeve is turned to hold the balls projected to their limit toward the shank, to allow limited universal movement of the tool shank in the barrel.

1,341,935. INDICATOR-HOLDER. GEORGE SCHUSTARITCH, Cicero, Ill. Filed Sept. 8, 1919. Serial No. 322,596. 4 Claims. (Cl. 248—20.)



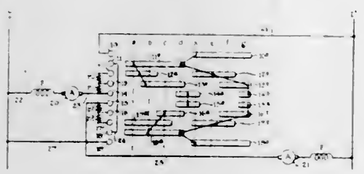
1. A holder for indicators, comprising a shank having one end adapted for insertion in a chuck, a bell crank lever pivoted to said shank, a link adjustably secured to one arm thereof, means for securing an indicator to said link, means connecting the other arm of said bell crank and said shank for adjusting said first-named arm and said link.

1,341,936. MULTIPLE-COMPARTMENT INNER TUBE FOR AUTOMOBILE AND OTHER TIRES. JAMES N. SHAFER, Denver, Colo. Filed Sept. 11, 1919. Serial No. 323,055. 2 Claims. (Cl. 152—22.)



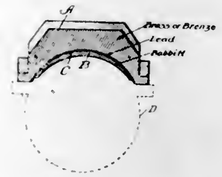
2. An inner tube for vehicle tires having a partition wall dividing the tube into separate co-extensive compartments and a separate valve connection for each compartment, the valve connections being disposed substantially in the central radial plane of the tube and the said partition wall making connection with the tube along a curved line passing around one valve connection at one side of the said radial plane and around the other valve connection at the other side of the said radial plane.

1,341,937. MOTOR-CONTROLLER. WILMER M. SHALLCROSS, Milwaukee, Wis. Filed Mar. 21, 1914. Serial No. 826,407. 18 Claims. (Cl. 172—179.)



1. A series-parallel drum controller, including a plurality of contacts and a plurality of electrically independent sets of segments, two of said sets of segments being jointly coöperable with said certain of said contacts to provide for all circuit variations necessary for series-parallel connections and another of said sets of segments being coöperable with certain of said contacts to maintain continuity of circuit during series-parallel commutations by the former segments.

1,341,938. BEARING ELEMENT AND METHOD OF MANUFACTURING THE SAME. ROBERT JAY SHOEMAKER, Topeka, Kans. Filed May 5, 1919. Serial No. 294,633. 10 Claims. (Cl. 22—123.)

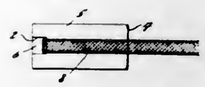


2. Method of making a babbitted bearing element which consists in covering the bearing face of said element with a flux containing a metallic chlorid, plating said face with lead, or an alloy of lead containing not substantially more than one part of the alloying metal to nine parts of lead by applying the plating metal to the face of the bearing element in molten condition to form a thin film or wash of lead thereon, then pouring melted babbitt against said plated surface while the plating metal is still in a molten state.

1,341,939. PROCESS FOR PRODUCTION OF LOW-CARBON FERROCHROME. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,646. 6 Claims. (Cl. 204—63.)

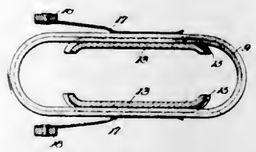
1. The method of making low carbon alloys of iron, chromium and titanium which consists in the decarbonization of a high carbon ferro-chromium alloy by means of titanic oxid.

1,341,940. SHOE-LACE TIP. MYRA BENWELL SICKLES, Alpine, N. J. Filed Mar. 16, 1920. Serial No. 366,224. 6 Claims. (Cl. 24—143.)



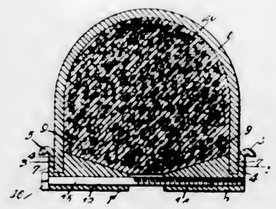
1. A lace tip consisting of a sheet of material bent upon itself to provide two wings, a lace arranged between said wings and reversed on itself over the edge of one of said wings and lengthwise of the latter toward the fold between the wings, the side portions of said wings being bent over said reversed portion of the lace and in clamping engagement therewith.

1,341,941. CUSHION-SPRING SHUTTLE-CHECK. DAVID E. SKEDGELL, Fall River, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 1, 1918. Serial No. 242,944. 2 Claims. (Cl. 139—29.)



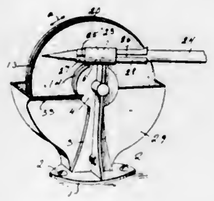
2. A picker check for looms, including, in combination with a picker, a picker stick, a longitudinally movable endless check strap with which said picker stick engages near the ends of its strokes, supporting brackets for said strap at each side thereof, each bracket having a longitudinally extending plate with outwardly extending guide flanges, one above and the other below the check strap, and a flat spring adjustably secured to each bracket and pressing at its free end on the check strap.

1,341,942. AUTO-RIM. STERLING STEPHENS, Bushnell, Fla. Filed Oct. 13, 1916, Serial No. 125,436. Renewed Oct. 16, 1919. Serial No. 331,240. 1 Claim. (Cl. 152—5.)



A rim comprising opposed members provided adjacent their outer edges with casing-holding means and having their inner edges spaced, the said members having inclined faces which slant toward the median plane of the rim and toward the center of rotation of the rim, one of said members having transverse recesses opening through the slant face of said member and extended part way through said member to form ledges, the other of said members having transverse tongues slidably received in the recesses and supported on the ledges, the tongues filling the recesses but partly, thereby to leave the recesses open adjacent the slant face of the recessed member; a compressible filler supported on the slant faces of said members; a casing engaged with the casing holding means and housing the filler; and means for drawing said members together thereby to compress parts of the filler into the open portions of the recesses and to avoid a creeping of the filler.

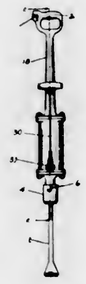
1,341,943. PENCIL-SHARPENER. CHARLES E. STONE, Boston, Mass. Filed Aug. 13, 1919. Serial No. 317,149. 1 Claim. (Cl. 120—96.)



In a pencil sharpener, the combination with a standard having a supporting base at its lower end, its upper end being provided with a detachable journal pin, of a circular rotatable member rotatably mounted upon said pin, an abrading element on the face of the member adjacent the standard, a disk plate having lateral pins passing through the element and into the member and being mounted upon the pin, thereby holding the central part of the abrading element closely in contact with the member and spacing the abrading element from the standard, the upper end of the standard carrying a holder at an acute angle to the abrading element and adapted to adjustably slidably receive a pencil to be sharpened, and a receptacle secured to the standard having one wall between the standard and the abrading element, and its other wall cut away to permit movement of a handle on the rotating member.

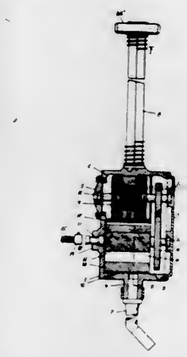
1,341,944. TAMPING-MACHINE. NATHANIEL C. STUDY, Kalamazoo, Mich. Filed June 10, 1919. Serial No. 303,166. 13 Claims. (Cl. 104—13.)

1. In a tamper, the combination of a casing-like body member having an ear on its upper side at its lower end, a rigid main handle at the upper end of said body member disposed in alinement therewith and having an ear on its upper side and a grip at its outer end, a link-like handle member pivotally mounted on said ear on said body, an auxiliary handle provided with a grip and adapted to be mounted on said link-like handle member or on said ear



on said main handle, said link-like handle member being adapted to be engaged by the pin by which said auxiliary handle is mounted on said ear, a reciprocating impact member within said body member, and a tamper bar reciprocatingly mounted in said body member to receive the blows of said impact member.

1,341,945. TAMPER AND THE LIKE IMPLEMENT. NATHANIEL C. STUDY, Kalamazoo, Mich. Filed Dec. 23, 1919. Serial No. 346,898. 13 Claims. (Cl. 104—13.)

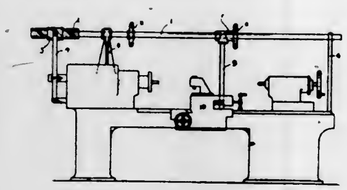


1. In a tamper, the combination of a casing provided with a cylindrical impact member chamber, an impact member shaft disposed eccentrically of said chamber having a non-circular impact member driving portion, an impact member slotted to engage said non-circular driving portion of said shaft and to reciprocate thereon in sliding contact with the wall of the chamber as the shaft revolves, a tool holder on the lower end of said housing, a tamping bar mounted in said tool holder, a handle at the upper end of said casing, a handle bar provided with grips at its ends slidably mounted on said handle, and a spring mounted on said handle to engage said handle bar.

1,341,946. TURNING-LATHE. ANDREAS SUNDT, Christiania, Norway, assignor to Brödrene Sundt, Vaerktöimaskinfabrik A/S, Christiania, Norway. Filed May 12, 1919. Serial No. 296,606. 1 Claim. (Cl. 82—2.)

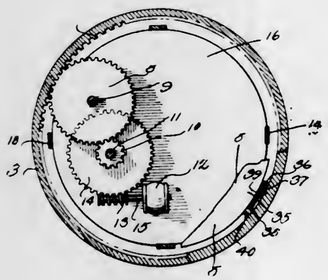
In a turning lathe, the combination with a tool slide, a head stock, and a clutch operating lever mounted on the

latter, of a stationary bracket mounted on the head stock, a column carried by the tool slide, a sleeve rotatably mounted in the column, a controlling rod journaled in the bracket and sleeve and rotatable with the latter, a nut



carried by the free end of said operating lever, a worm fixed on the controlling rod engaging the nut, and means to rotate the sleeve whereby the operating lever is actuated.

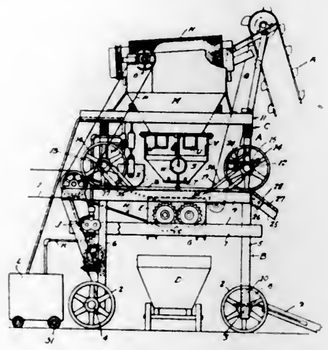
1,341,947. HEADLIGHT. LEON W. SWOPE, Vincennes, Ind., assignor of one-half to Mary Caroline Kelly, Vincennes, Ind. Filed Jan. 27, 1919. Serial No. 273,345. 2 Claims. (Cl. 240—61.)



1. In a headlight structure, the combination of a stationary platform, a rotatable platform mounted upon the stationary platform, a motor carried by the stationary platform, a depending flange formed on the periphery of the rotatable platform, and forming a housing for said stationary platform, and the motor, a ring gear carried by the inner surface of flange, speed reducing mechanism operatively connecting the motor with the ring gear, an inwardly extending lug formed on the inner surface of the flange, and outwardly extending apertured lugs formed on the stationary platform, a rod slidably mounted in the apertured lug, heads formed on the opposite terminals of the rod, and springs coiled around said rod, and engaging said heads and the apertured lug, the rod being arranged in the path of the flange carried lug.

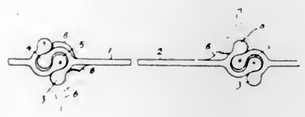
1,341,948. PORTABLE PAVING PLANT. FRANK B. TOTMAN, Los Angeles, Calif. Filed Dec. 7, 1917. Serial No. 206,116. 2 Claims. (Cl. 94—41.)

1. A portable paving plant, comprising vehicle-like units each adapted for traction and being equipped with elements of a paving plant, means for holding one of said units upon and in superposed relation to the other of said units, said elements being formed and adapted for associated use in producing paving material, one of said units having wheels spaced apart sufficiently to permit a vehicle to pass between said wheels and beneath one



of the elements for making paving material, whereby paving material may be released from said element and deposited into said vehicle.

1,341,949. SHEET-PILING. EINAR TROYE, Christiania, Norway. Filed May 13, 1918. Serial No. 234,312. 4 Claims. (Cl. 61—62.)



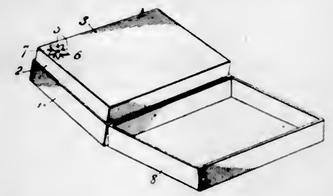
1. A sheet pile consisting of a web portion having interlocking members comprising two ribs of substantially the same configuration arranged at an angle to the plane of the web and forming between them a recess of substantially the same configuration as that of the ribs, one rib arranged to fit the recess of an adjacent pile to positively lock the piles in web-alinement and the other rib of the pile when inserted in the recess of an adjacent pile arranged to positively lock the adjacent piles at an angle to one another.

1,341,950. ADVERTISING DEVICE. GEORGE H. TRULOCK, Los Angeles, Calif. Filed July 17, 1919. Serial No. 311,605. 2 Claims. (Cl. 40—78.)



1. An advertising device comprising, in combination with a housing having an open front and having a front track and a rear track and operating gears between the tracks; panels mounted to run upon the tracks having racks to mesh with the gears; means for operating the gears to move the panels one way on the front track; a slidably mounted partition fitting the ends of the housing adapted to engage the outer ends of the panels and having extending side members adapted to guide the panel; and springs positioned behind the partition whereby the end tooth of the rack on the panel will be kept in engagement with the gear while passing the panel from one track to the other.

1,341,951. SIFTER POWDER-BOX. MARTHA K. TURNER, Chicago, Ill. Filed Jan. 9, 1919. Serial No. 270,273. 1 Claim. (Cl. 221—64.)

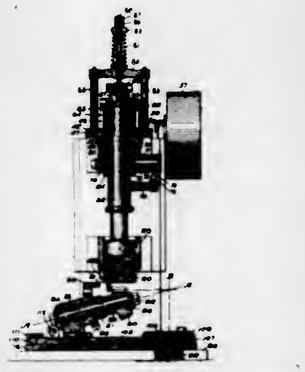


A sifter powder box having a polygonal body provided with a top having perforations closely adjacent to one corner only of the body, and a cover for the top hinged to a side of the body distant from said corner.

1,341,952. GASKET-SEALING COMPOSITION. JULES F. VERVOORT, Los Angeles, Calif., assignor of one-half to Lee D. McJilton, Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 291,745. 4 Claims. (Cl. 134—3.)

3. A sealing composition for gaskets and the like, containing rosin which has been boiled until it has turned a dark color, and benzol, in the proportion of 12 parts of rosin and 10 parts of benzol.

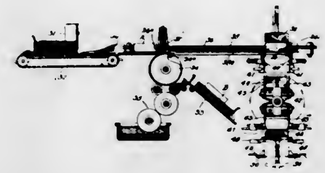
1,341,953. MACHINE FOR AND METHOD OF CUTTING GEARS. HENRY C. WALTER, Bridgeport, Conn., assignor to The Locomobile Company of America, New York, N. Y., a Corporation of West Virginia. Filed Feb. 19, 1916. Serial No. 79,424. 9 Claims. (Cl. [illegible]—9.)



7. The method of cutting gears having longitudinally curved teeth which comprises oscillating the cutting tool on a medial radius for the roughing cut on a plurality of teeth, and subsequently oscillating said cutting tool on longer and shorter radii for a finishing cut, while rolling the gear blank to generate the tooth curve.

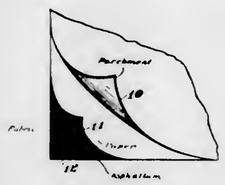
1,341,954. ART OF PRODUCING COVERED BOX-SHELLS. WILLIAM A. WEIGHTMAN and CHARLES H. NITSCH, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Pa., a Corporation of Pennsylvania. Filed June 29, 1917. Serial No. 177,833. 18 Claims. (Cl. 93—40.)

9. In a machine for covering the exterior walls of box shells with a cover blank having a body portion and integrally connected side and end wings and in combination, means for supporting and advancing a cover blank, means for applying a coating of adhesive to one face of the blank while so supported, means for causing an attached portion of the shell to contract with a selected portion of



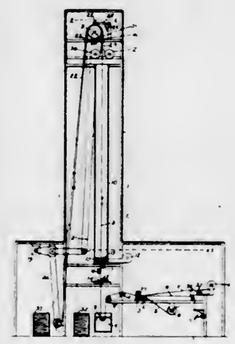
the blank in registered relation and for adhesively attaching the contacting portions thereof while the blank is upon its support, and transporting means for bodily transporting the assembled shell and its blank.

1,341,955. WRAPPING MATERIAL. JOHN J. WHITE, Ashland, Mass. Filed June 20, 1919. Serial No. 305,639. 6 Claims. (Cl. 154—52.)



1. Material made up of two sheets, one being greaseproof, and the other being paper; the first sheet having one face backed with the sheet of paper secured thereto by vegetable paste; asphaltum coating the other face of said sheet of paper; and strengthening material affixed to it.

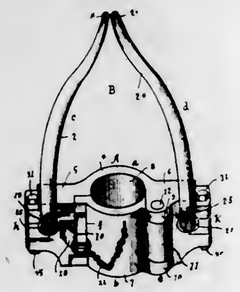
1,341,956. ART OF MAKING PAINTED SHADE MATERIAL. JOHN P. WHITMORE, South Pasadena, Calif. Filed Oct. 6, 1919. Serial No. 328,723. 5 Claims. (Cl. 154—1.)



5. In an apparatus for painting shade material, means for supplying a continuous sheet, means for applying paint to said sheet, a feed roller spaced sufficiently from the paint applying means to permit of drying of the paint before the sheet passes to the feed roller and a

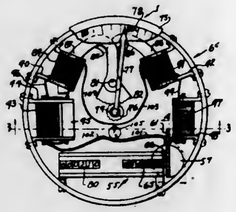
presser roller adapted to press the sheet against the feed roller so as to cause the feed roller to draw the sheet forward, and means for feeding a parting strip between said sheet and said presser roller.

1,341,957. HOIST. ELIHU C. WILSON, Los Angeles, Calif. Filed May 2, 1914. Serial No. 835,924. 4 Claims. (Cl. 294—90.)



1. A casing elevator including a body and a complemental jaw mounted on the body for coöperation therewith to embrace a casing, said body being provided with laterally projecting wings which are bifurcated substantially horizontally, closed suspension links fitted removably in the bifurcations of the wings so as to be supported by the lower arms of the bifurcations when inoperative and pull against the upper arms when operative, and retaining means for holding the links removably in position within the bifurcations.

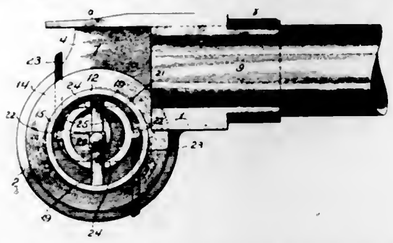
1,341,958. ELECTRIC SPEEDOMETER. STOVER CARL WINGER and ADOLPH RICKENBACHER, Los Angeles, Calif. Filed Aug. 26, 1919. Serial No. 319,998. 4 Claims. (Cl. 175—368.)



2. An electric speedometer comprising two voltmeters mounted to oppose each other, an indicator hand mounted to be operated by the voltmeters, an inductive resistance connected to one voltmeter, a non-inductive resistance connected to the other voltmeter, a commutator adapted to be operated from a wheel, a battery connected to one side of the commutator, a connection between the other side of the commutator and the inductive and non-inductive resistances, and a connection between the commutator and the opposite ends of the voltmeters from the inductive and non-inductive resistances.

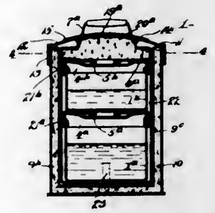
1,341,959. PICKER-HEAD. CLARK NOBLE WISNER, New Orleans, La. Filed June 12, 1919. Serial No. 303,638. 5 Claims. (Cl. 56—32.)

1. In a picker head, the combination with a frame provided with a suction tube connection, of a rotary cylinder mounted in said frame, said cylinder having a peripheral flange, picker pins passing through the wall of the



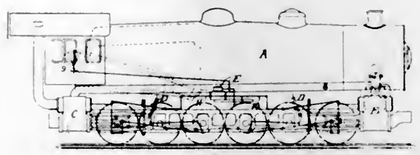
cylinder and through said peripheral flange, and means for causing said picker pins to be projected and withdrawn during the rotation of the cylinder.

1,341,960. COOKING APPARATUS. LINA MEYER, *nee* WOLF, and ROBERT SCHIFF, Frankfort-on-the-Main, Germany, assignors to the Firm H. Hirschfeld, Sen., Frankfort-on-the-Main, Germany. Filed May 27, 1916. Serial No. 100,395. 1 Claim. (Cl. 220—17.)



In a portable cooking apparatus, an outer envelop, an inner cylinder enveloped thereby, heat insulating material interposed between said envelop and cylinder, a number of separate, superposed food receptacles, a cover on each of said receptacles, foldable handles on said covers, retaining means for holding said covers on the receptacles, two U-shaped clips for holding the receptacles in their respective positions, eyes on the upper ends of one of said clips, and insulating cushions on top of the upper receptacle, and an outer handle hooked into the eyes of one of said clips.

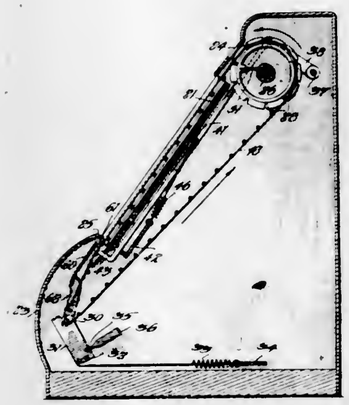
1,341,961. LOCOMOTIVE. WILLIAM E. WOODARD, Lima, Ohio. Filed Feb. 27, 1918. Serial No. 219,350. 5 Claims. (Cl. 105—48.)



1. The combination with a locomotive and two groups of simple cylinders operatively connected to driving wheels, and a valve motion for each group, of mechanism for obtaining a differential cut-off relation between the valve motions to maintain the cylinder horse-power within the capacity of the boiler at all operating speeds.

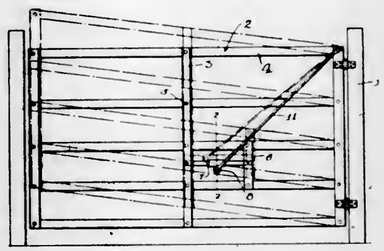
1,341,962. CALCULATOR. HERBERT A. WRENN, Washington, D. C., assignor to The Wrenn Adding Machine Company, Washington, D. C., a Corporation of District of Columbia. Filed Apr. 4, 1917. Serial No. 159,696. Renewed Dec. 24, 1919. Serial No. 347,195. 19 Claims. (Cl. 235—71.)

1. A calculating apparatus of the character described including a keyboard, a series of number wheels above the keyboard, link operating chains, the upper runs of which extend over the keyboard and which project around the number wheels at their upper ends, tension members at the lower ends of the chains, each of said tension members including a pivoted U-shaped piece, the free ends of which are connected by a rod around which the lower end of the



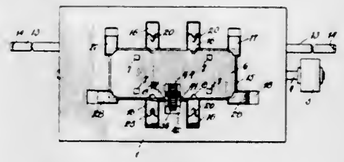
respective chain passes, springs engaging the cross bars of said U-shaped tension members, and locking plates adjacent the lower end of the keyboard pivotally connected to the said tension members and vertically shiftable upon rocking movements of the said tension members, for the purpose described.

1,341,963. ADJUSTABLE SAG-GATE. JOHN R. WRIGHT, Wheeling, Mo. Filed Sept. 8, 1919. Serial No. 322,320. 1 Claim. (Cl. 39—80.)



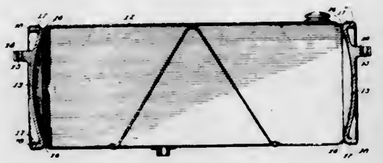
A gate including pivotally connected vertical and rail members, a strip pivotally connected to certain of the rail members and parallel with the vertical members, a rod pivotally connected to said strip and one of the vertical members and extending between and parallel with certain of the rails, a split sleeve slidably mounted on the rod, said sleeve having ears extending therefrom, brake rods extending to opposite sides of the sleeve, means extending through said rod and the ears for pivotally connecting them, and a connection between the brake rods and the upper end of one of the vertical members, said connection between the brake rods and the ears being adjustable to bind the sleeve upon its guide rod.

1,341,964. MACHINE FOR MAKING REEL-FRAMES. JOHN YENNETT and EDWARD T. LONKERT, Atlanta, Ga. Filed June 14, 1919. Serial No. 304,315. 9 Claims. (Cl. 140—71.)



1. The combination of a supporting table, a form block thereon, means for crimping a wire placed upon the table, means for subsequently bending the crimped wire about the form block to bring the ends of the wire together, and means for then crimping the bent wire adjacent its ends.

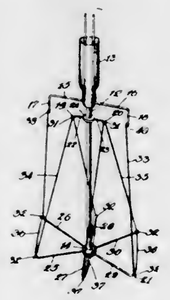
1,341,965. TANK. CHARLES A. XARDELL, Utica, N. Y. Filed Jan. 22, 1920. Serial No. 353,291. 3 Claims. (Cl. 220—94.)



1. A tank consisting of relatively heavy metal end heads provided with integral, horizontally extending brackets located above the central portions of said end heads and by means of which brackets said tank may be mounted or secured in place, and a relatively light sheet metal body portion interlocked with said heads.

3. A tank consisting of relatively heavy end heads having integral, horizontally extending brackets projecting outward from said heads and provided with openings, adapted to receive bolts or the like, and with out-turned flanges, and a sheet metal body portion having hooked portions interlocked with said flanges and having also indented crimped portions engaging shoulders on said heads.

1,341,966. INCANDESCENT ELECTRIC LAMP. SHIGEZO YUYAMA, New York, N. Y. Filed Nov. 30, 1918. Serial No. 264,826. 2 Claims. (Cl. 176—40.)



1. An electric lamp including a transparent bulb with an insulating stem carrying leading-in wires, two arms protruding in opposite lateral directions from the upper part of the stem beneath the leading-in wires, spaced

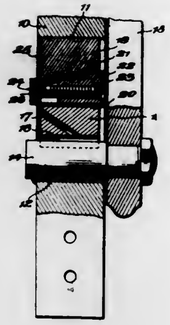
separate arms protruding radially from the lower part of the stem, and a filament strung on the ends of the arms in a fashion to provide two spaced inverted V-shaped members and three spaced transverse members disposed at the bases of the V-shaped members, the ends of the filament being connected to the ends of the leading-in wires.

1,341,967. PROCESS OF MAKING EDGE-CORRUGATED SHEET-METAL ARTICLES. ALLAN S. BARROWS, Chicago, Ill. Filed Mar. 28, 1919. Serial No. 285,850. 5 Claims. (Cl. 113—116.)



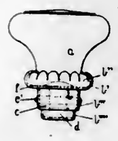
1. The herein described process of making an article from sheet material having its margin provided with transverse corrugations therein which includes; providing a sheet of greater width than the required finished article, corrugating the sheet in the line where the corrugated edge of the finished article is to come, and then slitting the sheet through the corrugations thus made and on the line of the desired finished edge.

1,341,968. ADJUSTABLE FOLLOWER-BLOCK FOR OIL DRILLING AND PUMPING RIGS. FRANK E. BRAILE, Shamrock, Okla. Filed Aug. 29, 1919. Serial No. 320,626. 7 Claims. (Cl. 64—55.)



2. In an oil pumping or drilling rig, the combination with the pitman having a rectangular follower slot therein, of a wrist pin adapted to be journaled in said slot and a follower comprising a pair of filler blocks removably and slidably mounted in the follower slot, one of said blocks having a bearing therein for the wrist pin, and removable means movable in one direction parallel to the axis of the wrist pin journal for adjusting said follower blocks longitudinally of the follower slot to compensate for wear on the wrist pin bearing, and movable in the opposite direction to permit removal of the filler blocks from the follower slot, and means for locking said blocks in adjusted position.

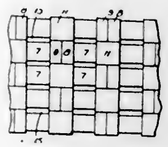
1,341,969. DOORKNOB. RICHARD A. BREUL, Bridgeport, Conn. Filed Oct. 9, 1919. Serial No. 329,463. 4 Claims. (Cl. 292—347.)



3. In a door knob a ferrule drawn from sheet metal and having a hub portion inclosing and holding a knob spindle bushing by frictional contact, and a cup portion inclosing and securing the knob head base by teeth on and extending from said cup portion, grooves formed on the knob head base and containing portions of said teeth.

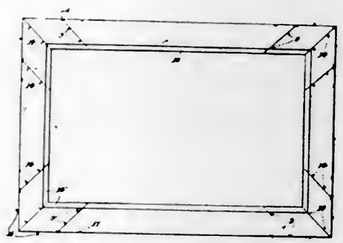
4. In a door knob a sheet metal ferrule having a hub portion, a spindle bushing held therein, and a cupped and toothed portion engaging the knob head base, a concavity in said knob head base containing reflective material, packing material interposed between the knob head base and the ferrule and covering the reflective concavity in said base.

1,341,970. RECUPERATOR. ALPHONSE BAUDOUIN CHANTRAINE, Marcinelle, Belgium. Filed Aug. 18, 1914. Serial No. 857,323. 7 Claims. (Cl. 263—46.)



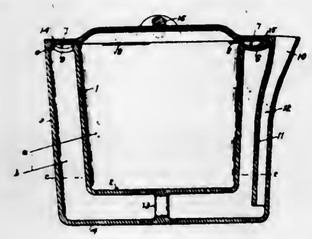
1. As an article of manufacture a hollow refractory brick supported on all sides by spaced peripheral enlargements integral therewith.

1,341,971. ADJUSTABLE PICTURE-FRAME. KAZIMIER CHROBAK, Rosemont, W. Va., assignor of one-half to John Kryvosbey, Rosemont, W. Va. Filed Feb. 13, 1920. Serial No. 358,528. 5 Claims. (Cl. 40—155.)



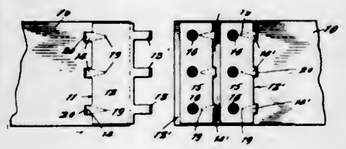
1. An adjustable picture frame comprising top, bottom and end frame strips of substantially trapezoid shape in elevation and having substantially rhomboid shaped corner members hinged to the ends thereof at their acute angled corners, and separable fasteners carried by the top, bottom, end and corner members or strips whereby the corner members may be swung to operative positions selectively and connected for providing frames of different sizes, substantially as described.

1,341,972. STEAMER. FRANK R. COLQUITT, Huntington Park, and CLAUD E. CHAPMAN, Los Angeles, Calif. Filed Aug. 2, 1919. Serial No. 314,949. 3 Claims. (Cl. 53—1.)



3. A steamer comprising an inner wall and bottom forming a receptacle, an outer wall and bottom forming a steam jacket extending below and around said receptacle, a web extending between the upper portions of said inner and outer walls and formed with a channel and with openings establishing communication from said jacket to said channel and with passages establishing communication from said channel to said receptacle, and a cover extending over said receptacle.

1,341,973. BELTING. JOSEPH D. COUGHLIN, New York, N. Y., assignor to Wein Sales Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 15, 1918. Serial No. 258,268. 4 Claims. (Cl. 24—33.)



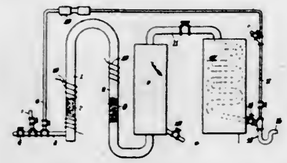
4. A belt having angular recesses formed in one end thereof, a plate having perforations therein overlying said recesses, a plate on the other end provided with hooks extending therefrom at an angle adapted to engage in said perforations and register with said angular recesses, and means extending from said plates for the securing thereof to the ends of the belt having teeth portions extending substantially parallel to said plates adapted to be embedded in the inner surface of the belt so as to be substantially flush therewith.

1,341,974. CASE FOR HOLDING CIGARETTE-PAPERS. JOHN W. DAVIS, Honolulu, Hawaii. Filed Sept. 18, 1919. Serial No. 324,290. 2 Claims. (Cl. 206—57.)



1. A case for holding a pack of cigarette papers, comprising a pair of stiff covers for holding a pack of cigarette papers between them, a flexible binding connecting said covers at their rearward edges and forming a flexible hinge permitting the covers to be opened or closed, and two U-shaped springs, the legs of each spring being secured in the opposite covers and the parts of said springs connecting said legs extending longitudinally of said hinge, said springs acting normally to hold said covers closed.

1,341,975. MAKING GAS-OIL. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed May 29, 1913. Serial No. 770,696. 11 Claims. (Cl. 196—25.)



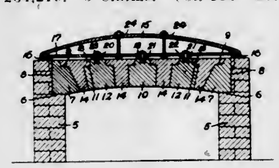
11. The process of making gasolene-like material which comprises mixing petroleum vapors and gaseous petroleum decomposition products and subjecting the mixture under a pressure of several atmospheres to a decomposition temperature whereby the said petroleum decomposition products by mass action increase the yield of heavier and lighter products from the petroleum vapors under treatment.

1,341,976. APPARATUS FOR MUFFLING SOUNDS. JOSEPH O. FISHER, U. S. Navy. Filed Jan. 23, 1918. Serial No. 213,362. 9 Claims. (Cl. 137—160.)



2. An apparatus for muffling sounds comprising a chamber provided with a rotator adapted to impart to gases having a pulsating or intermittent motion a motion of an accelerated rotation, and having a cone shaped orifice of less diameter than said path of rotation freely opening into the chamber and adapted to discharge said gases therefrom in an unobstructed rotating stream, substantially as described.

1,341,977. FURNACE CONSTRUCTION. JOHN WILLIAM GATES, Montreal, Quebec, Canada. Filed Nov. 26, 1918. Serial No. 264,219. 3 Claims. (Cl. 110—99.)

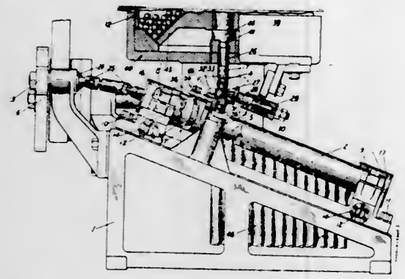


1. In furnace construction an arch including center, side and intermediate blocks, certain of said intermediate blocks being shouldered to rest upon the center, side and remaining intermediate blocks, and external means for supporting the center and remaining intermediate blocks whereby any one of the shouldered blocks or side blocks may be removed without collapse of the arch, said supporting means including a plurality of arched plates spanning the furnace arch, longitudinally disposed bars suspended from said arched plates and means for suspending individual blocks from said bars.

1,341,978. GAGE. CHARLES M. GEARING, Hartford, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed May 18, 1915. Serial No. 28,999. 4 Claims. (Cl. 83—92.)

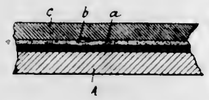
1. In a device of the character indicated, a pair of gaging-slot-defining elements so located with respect to each other as to provide a gaging-slot, one of said elements being rotatable, means for rotating such element means for feeding the articles to be gaged to said slot;

such means comprising a delivery pipe and a reciprocating closure plate for controlling exit from said pipe; and means operatively connecting said rotative slot-defining-element and said plate and whereby said element during



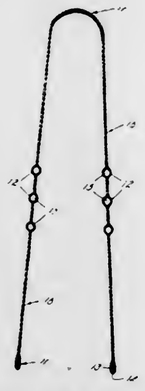
rotation controls the reciprocation of said plate; such last named means comprising a cam connected for rotation with said rotatable element and having its cam surface contoured to reciprocate the follower of said cam during said cam's rotation, an oscillatably mounted arm connected with said plate, and a follower for said cam connected with said arm and contacting said cam; substantially as described.

1,341,979. PROCESS FOR PRODUCTION OF ARTIFICIAL STONES OR SLABS OF MARBLE-LIKE APPEARANCE. HUGO GRÖNROOS, Copenhagen, Denmark. Filed June 20, 1919. Serial No. 305,700. 2 Claims. (Cl. 18—47.5.)



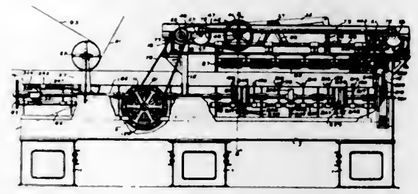
1. Process for production of artificial stone or slabs of marble-like appearance, by fusion of substances consisting mainly of porcelain, faience and glass-refuse in crushed state, characterized in that the mixture is composed of nearly equal parts of porcelain or faience-refuse, pipe-clay in finely powdered state and crushed glass, there being used, in known manner, for the layer forming the surface of the stone or slab, crushed porcelain-refuse, which is spread on the bottom of the mold wherein the fusion is performed.

1,340,980. HAIRPIN. ISAAC HAYMAN, Los Angeles, Calif. Filed Mar. 18, 1919. Serial No. 283,377. 4 Claims. (Cl. 132—22.)



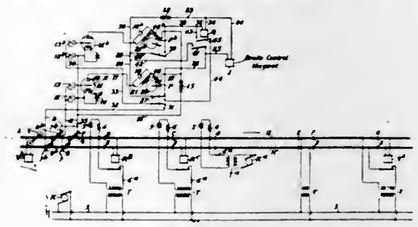
2. A hair pin comprising a plurality of portions of wire twisted together, and having an intermediate enlarged loop between the twisted portions and the twisting being otherwise tight and extending up to the loop on both sides thereof.

1,341,981. PAPER-REINFORCING MACHINE. CHARLES H. HOWARD, Saugus, Mass., assignor to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed July 25, 1918. Serial No. 246,644. 46 Claims. (Cl. 154—1.)



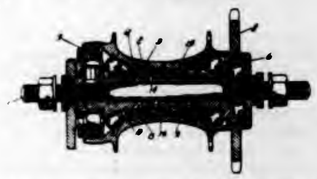
1. A machine of the character described, comprising in combination, means for feeding material to be reinforced by a series of transverse reinforcing filaments, means for distending a plurality of reinforcing filaments transversely of the material to be reinforced, means for transferring the filaments from said distending means to said material including a series of members movable in a predetermined path, and means for shifting said members progressively to and from said path.

1,341,982. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LEMUEL F. HOWARD, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application filed May 20, 1918, Serial No. 235,695. This application filed June 25, 1918. Serial No. 241,733. 16 Claims. (Cl. 246—41.)



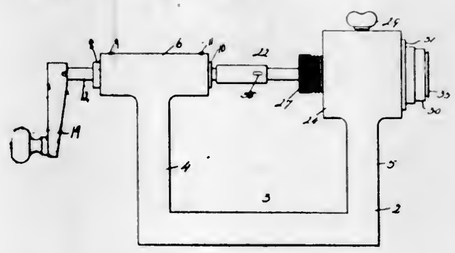
1. Railway traffic controlling apparatus comprising governing means on a vehicle arranged to retard the vehicle except when affected by traffic controlled means in the trackway, a portion of track equipped with such traffic controlled means and a portion of track not so equipped, and means adjacent the entrance end of the unequipped portion of track for rendering said governing means ineffective to retard the vehicle while the latter is passing through the unequipped portion of track.

1,341,983. CLUTCH MECHANISM. FREDERICK G. HUGHES, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Sept. 11, 1916. Serial No. 119,366. 3 Claims. (Cl. 208—57.)



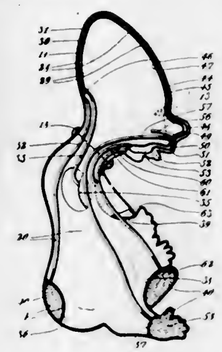
1. In a clutch mechanism, a supporting element, a clutch element relatively loosely supported thereon, a second clutch element surrounding said first mentioned clutch element, teeth between said clutch elements, and a projection upon one of said clutch elements and adapted to engage the other thereof before said teeth can strike when the clutch elements are out of clutching position; substantially as described.

1,341,984. VALVE-GRINDER. EDWARD M. HUSTON, Philadelphia, Pa. Filed Oct. 22, 1919. Serial No. 332,430. 3 Claims. (Cl. 51—4.)



1. A valve grinder comprising a frame, a bearing formed integral with a portion of said frame, a bearing ring detachably secured in said bearing, a cam also detachably secured in said bearing, an operating spindle passing through said bearing and journaled in the bearing ring, and cam resilient means within the bearing for normally forcing the operating spindle in one direction, a pin passing through the operating spindle, cam rollers journaled on said pin and engaging the cam, means for actuating said spindle, a head carried by said spindle provided with means whereby the stem of a valve may be attached thereto, a chuck carried by another portion of the frame and having a chamber for the reception of a valve housing and means for adjusting the position of a valve housing therein, and means for holding the valve housing in its adjusted position.

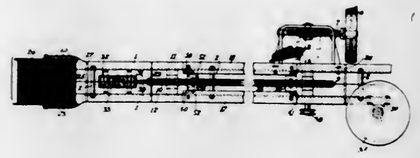
1,341,985. DOLL. WALTER DEWITT KEMP, New York, N. Y. Filed Oct. 11, 1919. Serial No. 330,110. 10 Claims. (Cl. 46—40.)



1. A doll comprising a body, head and limbs, and means contained wholly therewithin for displaying variant colors at different points in said head.

1,341,986. WIRE-DRAWING MACHINERY. FREDERICK G. KEYES, Hoboken, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Mar. 22, 1918. Serial No. 223,895. 9 Claims. (Cl. 205—16.)

1. An apparatus for drawing a wire consisting of a revolving drum for holding and releasing the wire, a die for reducing the diameter thereof, gripping devices mounted on an endless chain for pulling the wire, said gripping devices comprising a base plate, a pair of jaws pivoted on



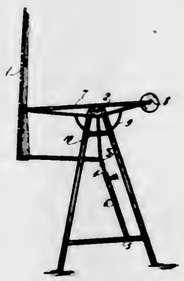
said base plate and a pair of plates yieldingly mounted on said base plate and functioning as bearings for the jaws, and a receiving drum around which the drawn wire is wound.

1,341,987. LAMINATED FABRIC. WALTER KLINE, Mogadore, Ohio. Filed Apr. 23, 1919. Serial No. 292,048. 3 Claims. (Cl. 28—25.)



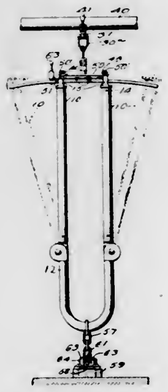
1. In a tape, of the character described, having a thickened portion adjacent the edges thereof, a central portion of equal thickness therewith, said portions being spaced apart by a web, and longitudinal tensile cords carried within said web.

1,341,988. DRAWING-TABLE. EMILE RAYMOND KOECHLIN, Amsterdam, Netherlands, assignor to Naamlooze Vennootschap Weduwe J. Ahrend & Zoons Industrie- en Handelsvereeniging, Amsterdam, Netherlands, a Company of the Netherlands. Filed Oct. 5, 1918. Serial No. 257,037. 2 Claims. (Cl. 45—131.)



1. In a drawing table, the combination of a drawing board, a support, a pivot on said support, a link connected to said board and to said pivot, a curved member concentric with said pivot and secured to said link, clamping means on said support for frictionally holding said curved member in the desired position, adjustable means for varying the friction exerted by said clamping means, and means operable at will to cause said clamping means to positively hold the curved member in the desired position.

1,341,989. STANCHION-SUPPORT. JOHN MINOR BOTTS LEWIS, Lynchburg, Va., assignor to Cowmatic Corporation, Lynchburg, Va., a Corporation of Virginia. Original application filed Feb. 18, 1919. Serial No. 277,778. Divided and this application filed July 16, 1919. Serial No. 311,289. 3 Claims. (Cl. 119—150.)



1. An animal stanchion of the character described, comprising a pair of spaced arms, flexible supporting means for the arms arranged near the upper ends thereof and including a link having a transverse member and a notch arranged near the transverse member, and a head provided near its top with a contracted opening, for coaction with said notch when the link is moved to the inverted position so that the transverse member of the link may be inserted within the head and readily removed therefrom.

1,341,990. [WITHDRAWN.]

1,341,991. PROCEEDING FOR THE PRODUCTION OF A PASTE DESTINED FOR THE MANUFACTURE OF PAPER, CARDBOARD, AND THE LIKE. CARMEN OLGA LOTTERO, Buenos Aires, Argentina. Filed Aug. 31, 1918. Serial No. 252,150. 1 Claim. (Cl. 92—5.)

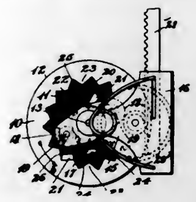
The process for the production of paper in general, cardboard and the like, from the roots of the lucerne (*Medicago sativa*) or of other similar plants, consisting in drying, sifting and washing the same, then submitting them to maceration for a period of about eight days in the presence of lime, next passing the same between milling stones and finally into a mixer from which the pulp is delivered to any suitable paper machine.

1,341,992. CORROSION-RESISTING FERROUS ALLOY. SILAS MCCLURE, Beaver Dam, Wis. Filed Jan. 31, 1919. Serial No. 274,362. 5 Claims. (Cl. 75—1.)

1. An article of manufacture in the form of sheet metal which is subjected to the action of the products of combustion of fuel made of a ferrous alloy consisting principally of iron and containing copper in excess of 0.50 of one per cent. but not in excess of such amount as will prevent rolling of the ferrous alloy into sheets.

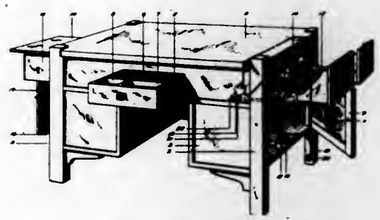
1,341,993. CLUTCH. GERARD R. MARSICO, Brooklyn, N. Y. Filed Oct. 2, 1918. Serial No. 256,582. 5 Claims. (Cl. 74—54.)

1. In a clutch mechanism of the character described, the combination of a shaft, a rotor freely revoluble on said shaft and having an annular clutch surface at or near the periphery thereof, an annular collar or hub member on the rotor having a roughened peripheral surface, a hanger carried by the shaft and having arms projecting radially toward said clutch surface and beyond diametrically opposite sides of the collar or hub member, pins carried by said



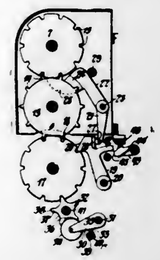
radial arms, swinging dogs adapted for clutching engagement with said clutch surface, said dogs having substantially circular heads pivotally engaging said pins and arranged in contact with said roughened peripheral surface for rolling engagement therewith, and means for revolving said shaft.

1,341,994. CABINET. OLAF A. NELSON, San Francisco, Calif. Filed Mar. 13, 1919. Serial No. 282,269. 3 Claims. (Cl. 219—35.)



1. The combination with a table, of a leaf positioned below the table top and slidably mounted with relation thereto, an electric heating element supported by said leaf, and means actuated by the sliding movement of the leaf for opening or closing an electric circuit through the heating element.

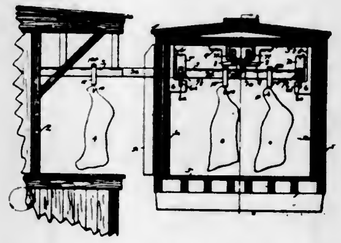
1,341,995. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed May 19, 1915, Serial No. 29,039. Renewed Feb. 3, 1919. Serial No. 274,634. 24 Claims. (Cl. 235—139.)



1. In a computing machine, the combination with a plurality of wheels having teeth occasionally caused to intermesh so as to connect said wheels in serial order and thus establish an extended driving train, of justifying means for reducing the lag or spiral effect in said train due to play between said teeth, said justifying means comprising pinions having teeth to engage in driving relation with certain of the wheels of said train, and means normally tending to turn each of said pinions, and the wheels in driving relation therewith, to a justified or approximately justified position at each operation of said machine involving a rotation of said wheels.

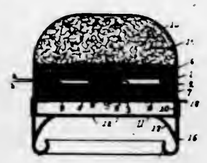
11. A computing machine comprising, in combination, a wheel having teeth of large peripheral width, compared with the relatively narrow spaces between them, and justifying means therefor, comprising a star-wheel having teeth of narrow peripheral width to enter the spaces between the teeth of said wheel, so as to mesh therewith in driving relation, a movably mounted roller, and means, effective at each rotation of said wheel and its associated star-wheel, normally tending to urge said roller into one of the spaces between the teeth of said star-wheel so as to cause the wheel in mesh therewith to be brought to rest in a justified position.

1,341,996. FREIGHT LOADING AND UNLOADING CRANE. JOHN PLUCIENSKI, Syracuse, N. Y. Filed Mar. 22, 1920. Serial No. 367,955. 4 Claims. (Cl. 104—91.)



1. The combination with a railway car having side openings to receive and discharge freight, of a plurality of cranes operatively mounted, and adapted to be moved longitudinally in the car for receiving, carrying and discharging freight, each of said cranes having a freight supporting rail adapted to be positioned opposite said openings in line with over-head tracks of packing-houses and other plants, sectional tracks partially supporting said cranes mounted on the inner side walls of the car, and a pair of continuous tracks suspended from the ceiling of the car for supporting the medial portions of said cranes.

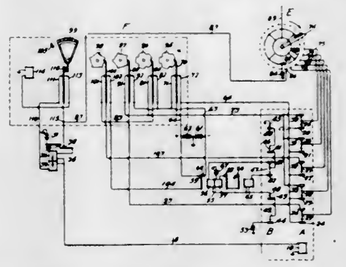
1,341,997. TELEPHONE-TRANSMITTER. STEPHEN C. PORTER, Brooklyn, N. Y., assignor to Porterphone Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1918. Serial No. 229,887. 10 Claims. (Cl. 179—122.)



1. A telephone transmitter comprising a microphone case provided with an opening, a microphone in said case and a wrapping therefor completely inclosing the same of sound deadening material.

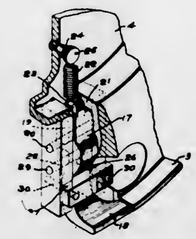
1,341,998. TELEGRAPH SYSTEM. PAUL M. RAINEY, West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 6, 1917. Serial No. 184,641. 13 Claims. (Cl. 178—17.)

1. In a telegraph system, a line circuit, a station provided with a first transmitter and an auxiliary transmitter, means controlled by said auxiliary transmitter to disable said first transmitter, and electroresponsive means con-



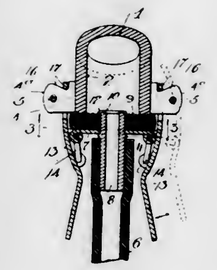
trolled by said first transmitter to store circuit changes to predeterminedly affect the operation of said auxiliary transmitter.

1,341,999. FILLING-REPLENISHING LOOM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 28, 1919. Serial No. 313,953. 8 Claims. (Cl. 139—85.)



6. In a filling replenishing loom, a stationary hopper stand having a throat for the passage of filling carriers, a rotary hopper mounted in the stand, an arm mounted on the stationary stand and having an end portion normally obstructing the said throat of the stand, a spring acting upon the arm and yielding to permit movement of the arm in a direction longitudinally of the filling carrier to withdraw the end portion of the arm from the throat when a filling carrier is passed through the throat.

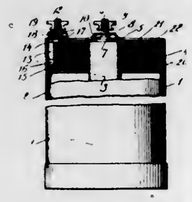
1,342,000. ATTACHMENT FOR FAUCETS. MORRIS I. SCHAMBERG, New York, N. Y. Filed Jan. 20, 1917. Serial No. 143,444. Renewed Oct. 18, 1919. Serial No. 331,741. 5 Claims. (Cl. 285—187.)



5. The combination of a faucet provided with projections at opposite sides thereof, said projections being provided

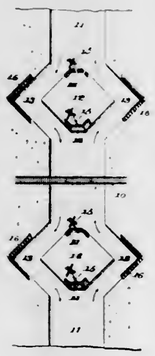
with notches at their upper edges, a member adapted to oppose the delivery end of the faucet, and levers having openings adapted to receive said projections respectively, the upper cross parts of the levers being straight and the sides of the levers at said openings being adapted to engage the projections, and means pivotally connecting the levers with said member for forcing the latter toward the delivery end of the faucet when the levers are attached to the projections and are swung toward each other.

1,342,001. DRY CELL. WALTER B. SCHULTE, Madison, Wis., assignor to Burgess Battery Company, a Corporation of Wisconsin. Filed Aug. 26, 1918. Serial No. 251,367. 10 Claims. (Cl. 204—38.)



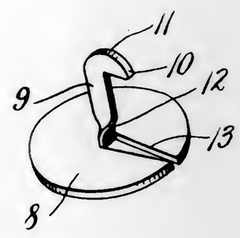
7. In a battery, an electrode in the form of a cup or container having a pocket in its upper end, a seal in said end, a metal ring encircling said sealed end to strengthen the same and protect the seal against breakage, and extending across said pocket, said ring having its upper edge turned continuously inward so as to overlie said seal and provided with a perforation, and a contact terminal comprising a stem portion secured in said pocket and a binding post extending upwardly through said perforation.

1,342,002. SAFETY DEVICE FOR RAILROAD-CROSSINGS. CHARLES ALLEN SNYDER, Dubuque, Iowa. Filed Jan. 24, 1917. Serial No. 144,228. 2 Claims. (Cl. 238—3.)



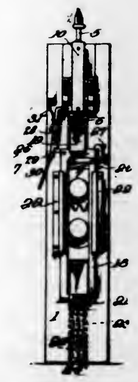
1. A railroad crossing having in the road, or street at or near the track an obstruction, and devious passageways connecting portions of the road, or street on both sides of said obstruction, the opposite sides of said obstruction being symmetrical, and each formed on converging lines.

1,342,003. COLLAR-BUTTON. CHARLES STERN, New York, N. Y. Filed Feb. 9, 1920. Serial No. 357,224. 2 Claims. (Cl. 24—101.)



1. A collar button comprising a disk and a shank, said shank being bent at an angle to the fact of the disk and having a hook at the outer end of one side thereof in the same plane as the adjacent portion of the shank.

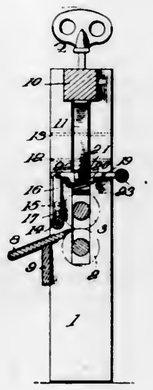
1,342,004. SPRING-ACTUATED RELEASE FOR CLOTHES-WRINGERS. EDGAR B. STOCKING, Washington, D. C.; Sarah C. Stocking executrix of said Edgar B. Stocking, deceased. Filed Mar. 2, 1917. Serial No. 152,034. 14 Claims. (Cl. 68—32.)



1. A clothes wringer having a pair of pressure rolls, pressure means for said rolls, a movable cross bar having detachable pressure maintaining means, a release for said maintaining means actuated by an independent motive power, and means for maintaining and releasing said motive power.

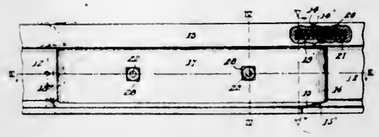
1,342,005. MATERIAL-ACTUATED RELEASE FOR CLOTHES-WRINGERS. EDGAR B. STOCKING, Washington, D. C.; Sarah C. Stocking executrix of said Edgar B. Stocking, deceased. Filed Mar. 6, 1917. Serial No. 152,886. 13 Claims. (Cl. 68—32.)

1. A wringer comprising a frame having pressure rolls and pressure means for said rolls, means for holding said pressure means in predetermined position, levers for releasing said pressure retaining means, a bar connecting said levers at one end, a link carried by the opposite end



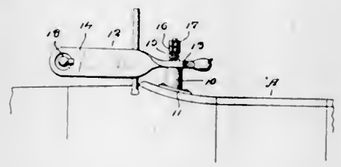
of said levers, and a movable member carried by said links arranged adjacent the bite of said pressure rolls.

1,342,006. RAIL-JOINT. JOSEPH SZAREK, Livermore, Pa. Filed Mar. 3, 1920. Serial No. 362,976. 3 Claims. (Cl. 238—237.)



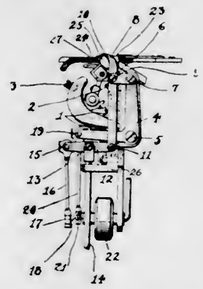
1. A rail joint comprising the ends of rails complementally formed adapted for overlapping at their web portions, the tread portions of the rails having alining longitudinal sockets, resilient connectors within said sockets and wedging bolts connecting the overlapping web portions of the rail ends adapted for tightening upon the webs simultaneously with the compressing of said resilient connectors.

1,342,007. AUTO SIGNAL-ARM. CLYDE TOWNSEND, Newport News, Va. Filed Oct. 20, 1919. Serial No. 331,863. 1 Claim. (Cl. 116—48.)



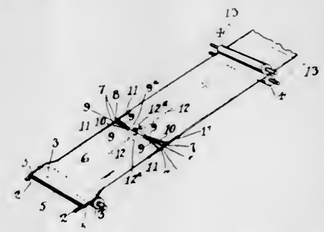
A device of the character described comprising an attaching plate adapted to be secured upon the upper edge of the side of a vehicle body in conforming engagement therewith, a standard rising from said plate, a reduced extension on said standard defining a shoulder, said extension being threaded, a paddle bent intermediate its ends to provide vertical and horizontal portions, the horizontal portion being provided intermediate its ends with a hole revolubly engaged upon said extension, a spring disposed upon said extension and engaging the top of said paddle, and a clamping nut threaded upon said extension and engaging said spring, said nut being adjustable whereby to regulate the tension of the spring, the vertical portion of said paddle extending outwardly of the vehicle body to serve as a signal arm and the free end of the horizontal portion extending within the body of the vehicle and being laterally bent for engagement by the hand or arm of the operator.

1,342,008. CUTTING ATTACHMENT FOR CUTTING-MACHINES. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del., a Corporation of Delaware. Original application filed Oct. 16, 1914, Serial No. 867,005. Divided and this application filed Jan. 2, 1919. Serial No. 269,275. 1 Claim. (Cl. 164—17.5.)



In a cutting attachment, the combination of a work-plate slotted for movement therethrough of an endwise and edgewise vibratable cutter blade; such cutter blade; a revoluble crank shaft; a bell-crank lever; a link pivoted to the cutter blade and also pivoted to the bell-crank lever; a pitman connecting the crank shaft and bell-crank lever; a rod-supported lever pivoted to the cutter blade and also pivoted to another pitman connected with the crank shaft; such other pitman; and a movable supporting rod to which said rod-supported lever is pivotally connected; the cutting movements of the cutter blade being effected by the rotation of the crank when the supporting rod is positioned to move the rod-supported lever to pass the cutting edge of the cutter blade into cutting position relatively to the slotted work plate, and the cutting movements of the cutter blade being arrested when the supporting rod is positioned to move the rod-supported lever to withdraw the cutting edge of the cutter blade from cutting position relatively to the slotted work plate.

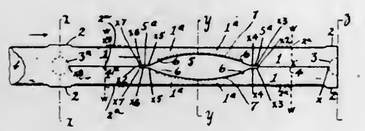
1,342,009. METHOD OF SIMULTANEOUSLY CUTTING AND SEWING SHIRTS AND THE LIKE. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del., a Corporation of Delaware. Filed Jan. 2, 1919. Serial No. 269,278. Renewed Dec. 24, 1919. Serial No. 347,192. 1 Claim. (Cl. 2—14.)



The method of cutting and sewing shirts from tubular goods, consisting in flattening and laterally distending the tube; in putting the flattened and laterally distended tube under lengthwise distention; and while such tube is in its

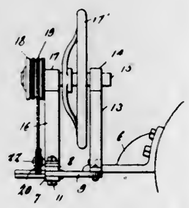
flattened, laterally and lengthwise distended condition, informing opposed shoulder-forming cuts through the opposite margins of the tube, each cut extending from an edge of the tube part way to the place of the neck opening; and in simultaneously with the making of each marginal cut, forming a seam at each side of each cut; and in thereafter transversely severing the so-cut and shoulder-seamed portions of the tube along a line intersecting the integral portions of the goods between the inner ends of the two seams on each side of said tube.

1,342,010. METHOD OF MANUFACTURING UNION-SUITS AND DRAWERS. JOHN P. WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del., a Corporation of Delaware. Filed Jan. 3, 1919. Serial No. 269,479. Renewed Dec. 24, 1919. Serial No. 347,193. 2 Claims. (Cl. 2—144.)



1. The herein-described process of cutting and partially seaming successive leg garments from flattened tubular goods, consisting in successively cutting and partially seaming from the flattened tube a succession of successive legged garments by progressively making through both walls of the flattened tube inwardly of the tube edges, two parallel cuts spaced apart, thereby forming crotch-piece tongues; in continuing such cuts in the lengthwise direction of the flattened tube in opposed concave paths terminating in two parallel cuts spaced apart, thereby forming crotch-piece continuations of the initially-formed tongues together with terminal crotch-piece tongues; in transversely severing the superposed crotch-piece tongues thus formed from the flattened tube; in oppositely notching, adjacent each pair of superposed crotch-piece tongues, the opposed superposed edges of leg-forming portions left by removal of the crotch-pieces and their tongues; in seaming lengthwise of each concave cut from the first-formed to the last-formed notches; leaving the straight cut edges and the intermediate concave cut edges of the flattened tube unseamed from each notch to the transverse end cut of the tongues unseamed; in transversely severing the flattened tube midway between the opposed notches at each end of the crotch-piece and tongue cut-out to form a pair of garments each having a pair of legs; and in lengthwise slitting the flattening tube.

1,342,011. TRACTOR-COUPLING. JOHN F. WINGERT, Jr., Brady township, Clearfield county, Pa. Filed Aug. 25, 1919. Serial No. 320,966. 1 Claim. (Cl. 213—67.)



In a hitch for connecting trailers and tractors, a frame comprising a plate having right angled ends, a pair of parallel plates connected to opposite sides of the right angled ends, a coupling bar having its end disposed between the parallel plates, a head formed on one end of the coupling bar and having portions thereon contacting with the parallel plates, journal bearings, a pair of spaced brackets comprising divergent arms on the frame for supporting the journal bearings, a shaft rotatable in the bearings, a pulley on the shaft, sheave pulleys rotatably mounted on the frame, a flexible member wound around said pulley, and embracing the sheave pulleys, said flexible means having connection with the coupling bar, and a hand wheel for operating the shaft.

1,342,012. FOLDING TOP. MAX BUCH, Detroit, Mich., assignor to Henry E. Edwards, Jackson, Mich. Filed Oct. 13, 1919. Serial No. 330,264. 13 Claims. (Cl. 296—116.)



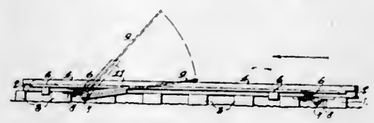
12. In a folding top for motor vehicles and the like, a normally upwardly and rearwardly inclined main bow arm adapted to be pivotally attached to the vehicle body at its lower end, an extension bow arm, a link or member pivotally connected to said extension bow arm at its forward end and having an offset portion at its rear end connected to said main bow by a lost motion pivotal connection and foldable means adapted to connect a part of said link in advance of said slidable pivotal connection with the vehicle body, and a spring having one end connected to the link adjacent said pivot and the other end to said standard above the pivot.

1,342,013. MILK-BOTTLE. CHARLES R. CHENERY, Buffalo, N. Y. Filed May 27, 1919. Serial No. 300,051. 1 Claim. (Cl. 229—3.)



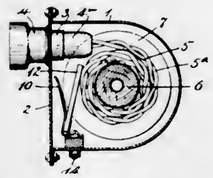
A receptacle including a plurality of strips wound in tubular formation, a liquid proof sheet disposed upon the inner face of the innermost strip and stopping short of the upper end of the strips, and an annular reinforcing element engaged between the upper ends of the liquid proof sheet and the inner strip and retaining the upper edge of said sheet out of the plane of the reinforcing element to afford a shoulder upon which a closure cap is adapted to seat.

1,342,014. CATTLE-GUARD. ALEXANDER CRUICKSHANK, Matsqui, British Columbia, Canada. Filed Apr. 22, 1919. Serial No. 291,823. 2 Claims. (Cl. 39—19.)



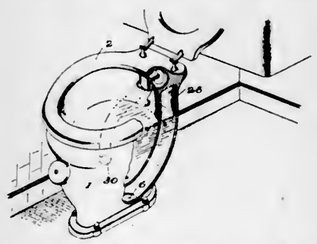
1. A cattle-guard, comprising in combination, grid frames between and on each side of the rails of the track, said frames composed of a series of longitudinal bars connected together by cross rails at each end, rocking shafts extending across below and adjacent each end of the frames, said shafts having relatively short arms projecting from the same side of the shafts toward one end of the grid frames and on which the grid frames are pivotally supported, a series of barrier rods secured to one of the rocking shafts and directed toward the opposite end of the frame and normally lying between the bars of the grid frames with the free end substantially level with the upper level of the frames and means for yieldably retaining the rocking shafts in position to support the grid frames on the arms in raised position.

1,342,015. AUTOMATIC SWITCH FOR CIGAR-LIGHTERS, &c. CHARLES F. CUNO, Meriden, Conn., assignor to Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Sept. 4, 1919. Serial No. 321,539. 9 Claims. (Cl. 200—153.)



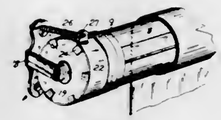
1. In an apparatus of the character described, a main support, a reel carried thereby, a cable comprising two flexible insulated conductor wires mounted on said reel, and arranged to be wound thereon, a spring operating to turn the wheel in one direction to wind the cable thereon, a current consuming device at the outer end of said cable and electrically connected with said wires, a switch within the housing to open and close a circuit through said wires, a switch operating device comprising means arranged to be engaged by the several convolutions of the cable windings on the reel and moved thereby as said convolutions increase or diminish.

1,342,016. WATER-CLOSET BOWL. HARVEY D. FARRIS, Spokane, Wash. Original application filed Apr. 7, 1919. Serial No. 288,179. Divided and this application filed July 24, 1919. Serial No. 313,096. 3 Claims. (Cl. 4—22.)



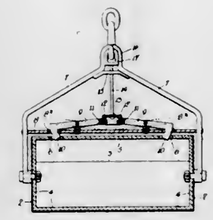
1. A water closet bowl having an outlet, a descending overflow leg in communication with the outlet, and an ascending overflow leg in communication with the upper end of the descending leg and communicating with the interior of the bowl through the bottom thereof at one side of the front to rear middle line of said bottom.

1,342,017. SPRING ROLLER-BLIND. HAROLD EDGAR FOX, Newtown, Sydney, New South Wales, Australia. Filed Sept. 4, 1919. Serial No. 321,726. 3 Claims. (Cl. 156—36.)



3. The combination with a spring blind roller and a supporting bracket therefor of means for preventing racing of said roller in a direction to wind up the blind, and comprising a cap fitted on one end of the roller and apertured to take over the pivot thereof, a pawl-catch pivoted on the end of said cap, a spring normally retaining said catch in inoperative position, a cylindrical sleeve housing the end of the cap with the roller and rotatably mounted on the supporting bracket, a spring resiliently checking the rotation of said sleeve, and in said sleeve a detent with which catch engages when the roller attains excessive speed in the direction indicated and centrifugal force causes said catch to overcome the pressure of its retaining spring and move outwardly.

1,342,018. SKIP FOR HAULING COAL AND OTHER CARGO. DAVID LLOYD GIBSON, Parnell, Auckland, New Zealand. Filed Jan. 27, 1920. Serial No. 354,343. 6 Claims. (Cl. 294—68.)

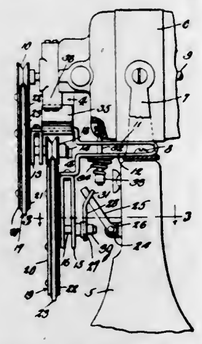


1. A cargo skip having a body fitted with a slotted central cross bar; a bow pivotally connected to said body and containing a slotted spreader bar; a stalk with a looped upper end working in a housing at the top of the bow; and locking members connected to said stalk and operated by the latter to pass through the spreader bar and engage the cross bar of the body.

1,342,019. MECHANICAL MOVEMENT. HORACE P. GORMAN, New York, N. Y. Filed Jan. 10, 1920. Serial No. 350,660. 6 Claims. (Cl. 74—14.)

1. In combination with the armature shaft of a motor and the supporting bracket thereof, a mechanical movement including a pair of spaced arms disposed between the motor and the supporting bracket, a wheel supported on

one end of the armature shaft, disks supported by the arms, pivoted arms carried by the supporting bracket,



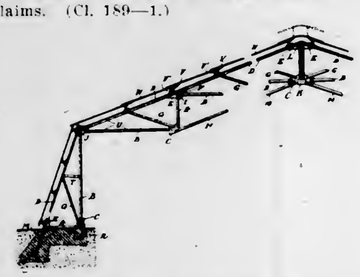
means operated by one of the disks and embracing the pivoted arm to cause the oscillation of the motor, and means for moving the disks into and out of operation.

1,342,020. LOCKING ATTACHMENT. JAMES P. HEADLEY, Jr., New Orleans, La. Filed July 28, 1919. Serial No. 313,853. 2 Claims. (Cl. 70—132.)



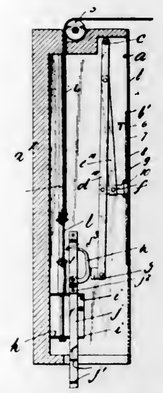
1. In an automobile locking device, the combination of a control lever, a clutch operating element carried thereby, a bracket having lever engaging means, and a padlock pivotally carried by the bracket for swinging movement in a plane transverse to the lever and intersecting the path of releasing movement of the clutch operating element.

1,342,021. BUILDING CONSTRUCTION. JOHN EDWARD JENNINGS, Brooklyn, N. Y., assignor, by mesne assignments, to Milliken Brothers Mfg. Co., Inc., a Corporation of New York. Filed Mar. 28, 1916. Serial No. 87,153. 7 Claims. (Cl. 189—1.)



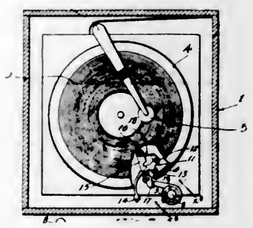
1. A building structure including a plurality of aggrouped interchangeable structural units, each essentially comprising a long component to form a base-member, a relatively shorter component to form a side-member, and a third component of greater length than either of the other two components to form a hypotenuse-member, these three components being joined to present a perimeter involving only a single right angle and two acute angles, and member-attaching elements for holding said components permanently assembled and, also, for connecting one unit with other units so that the hypotenuse-components of a series of units are all alined to form a straight, continuous and unbroken roof-supporting surface.

1,342,022. TARGET. OTTO KLEIN, Paterson, N. J. Filed Sept. 30, 1919. Serial No. 327,412. 12 Claims. (Cl. 124—15.)



1. In a target, the combination with a target disk composed of individual sections, of a movable record controlling means, a plurality of movable members, capable of separately engaging said means, means for limiting the strokes of said members and means on said sections capable when a section of the target is struck of effecting such engagement between the corresponding movable member and said movable means so that when the latter is moved its stroke will be limited by said members.

1,342,023. BRAKE FOR PHONOGRAPHS. JOHN H. KUNS, Long Beach, Calif. Filed Apr. 3, 1919. Serial No. 287,161. 6 Claims. (Cl. 74—46.)

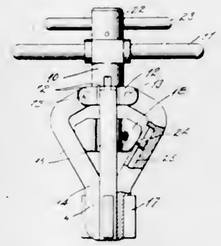


1. In a phonograph, a turntable, a reproducer, a rod, a horn pivoted to the rod and carrying the reproducer, a brake member adapted to engage said turntable, a trigger for said brake, an abutment carried by said trigger, an annular seat member mounted on said rod, a finger support frictionally seated upon said annular seat member and movable relative thereto, a finger carried by said support and adapted to engage said abutment upon the reproducer reaching the end of a record, and retaining means mounted on said seat member and overlapping said support to frictionally retard any relative movement between said seat member and said support.

1,342,024. PROCESS OF MAKING SULFURIC ACID. ELDON L. LARISON, Anaconda, Mont. Filed Aug. 25, 1919. Serial No. 319,607. 10 Claims. (Cl. 23—1.)

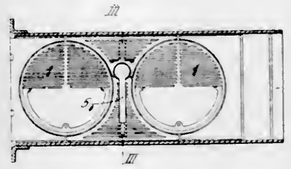
8. In the process of making sulfuric acid without the use of lead chambers, the steps which consist in passing the Glover tower gases through a series of refractory-packed reaction-towers, maintaining optimum acid-making temperatures in the towers by circulation of weak acid, and substantially completely oxidizing the sulfur dioxid in the reaction-towers.

1,342,025. BASIN-PLUG WRENCH. MORRIS MALLOVE, New York, N. Y., assignor of twenty-seven and one-half per cent. to Jacob Greenberg and twenty-seven and one-half per cent. to Philip Kieves, New York, N. Y. Filed June 16, 1919. Serial No. 304,585. 1 Claim. (Cl. 81—116.)



A wrench of the class described comprising a sleeve, constituting a handle, a plurality of fingers pivoted thereon having converging portions and T-shaped slots formed therein, a shaft journaled in said sleeve for rotation having a threaded portion in its free extremity, a conical spreader having a plurality of headed studs adapted to enter the T-shaped slots in the converging portions of the fingers for radial adjustment of the same, said spreader being interiorly threaded for the reception of the threaded portion of the shaft, and means carried by each of said fingers for frictional engagement with a basin plug.

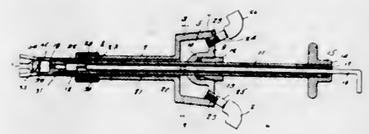
1,342,026. ROTATING GRATE FOR AUTOMATIC STOKING. JACOB MOE, Trondhjem, Norway. Filed Feb. 28, 1920. Serial No. 362,133. 2 Claims. (Cl. 110—36.)



1. In an automatic stoking grate having a substantially plane surface, the combination with two rotating grate disks of an arm mounted to oscillate in a plane parallel to the grate surface and adapted to distribute coal, slag and cinders over the surface of the grate.

1,342,027. LIQUID NOZZLE AND SPRAYER. HARRY MURPHY, Muncie, Ind. Filed July 14, 1919. Serial No. 310,772. 1 Claim. (Cl. 158—76.)

In a nozzle of the character described, a mixing chamber having a head, couplings threaded in the head and communicating with the interior thereof, an extension communicating with the mixing chamber, a tube slidable through the head and through the extension of the mixing chamber, said tube being spaced from the wall of the extension to form a passage, said tube having an aperture therein for receiving fluid from the mixing chamber or extension, a nozzle connected to the tube and communicating therewith, the said nozzle having an orifice therein, studs in the nozzle past which the fuel is forced,



a ball rotatably mounted in advance of the said studs and the said nozzle having longitudinally disposed slots through which fuel impinging the ball may pass, a cleaning rod in the tube and having a cleaning point adapted to enter the orifice of the nozzle, and a packing joint between the said rod and the said tube.

1,342,028. SAFETY-RAZOR. LAWRENCE S. NORDSKOG, Des Moines, Iowa. Filed Jan. 21, 1919. Serial No. 272,384. 1 Claim. (Cl. 30—12.)

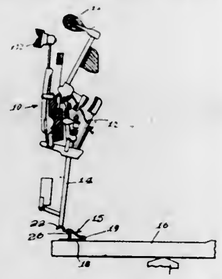


In a device of the class described, a blade holder having a concave surface, a guard having a convex surface, a flexible blade designed to be yieldingly held between said holder and said guard, whereby said blade will form to such a position between said holder and said guard, that it will be concave-convex in cross section, a cutting edge around said blade, said guard having outwardly extending guard teeth which are adapted to extend beyond the cutting edge of said blade, said blade being larger than the holder and smaller than the guard, said blade having a series of openings therein connected together by longitudinal slots, whereby additional flexibility of said blade is provided to allow said blade to easily conform to the contour of said guard and holder, said holder having a downwardly projecting portion, said projecting portion having laterally extending wings, said projecting portion having its lower end externally screw-threaded, said laterally extending wings being designed to register with the slots in said blade, whereby pivotal movement of the blade is prevented, said guard having a central opening therein and slots extended laterally from said opening, whereby said screw-threaded portion and said side wings of the holder may register with and extend through the openings formed in the blade and guard, a handle member having a central screw-threaded opening near its upper end adapted to receive the screw-threaded portion of said holder, whereby said handle member will hold the guard, blade and holder in proper relationship to each other.

1,342,029. FLEXIBLE STRIKING DEVICE FOR PIANO-ACTIONS. NATHANIEL M. ONG, York, Pa. Filed Jan. 14, 1920. Serial No. 351,412. 8 Claims. (Cl. 84—16.)

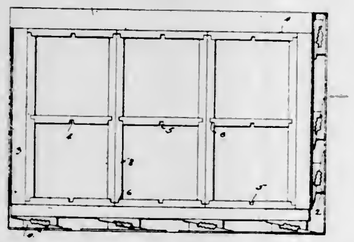
8. An improved flexible striking device for pianos and the like comprising a narrow relatively thin strip of resilient metal bent upon itself to provide a rectilinear bottom portion formed with means to anchor the same to a key and the bent portion being extended upwardly and rearwardly in a horizontal position, and a raised contact portion at the free end thereof, said horizontal portion and said rectilinear portion each having an aperture, said apertures being disposed in alinement, guiding and se-

curing means disposed through said apertures and permitting depression of the bent portion with respect to the lower rectilinear portion, said contact portion having a



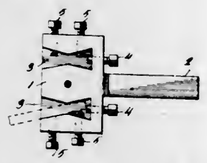
vertical offset at the point of rearward limitation thereof, and being flat transversely and slightly oval longitudinally, the free end of the bent portion being bent downwardly.

1,342,030. CENTER-SLOT STEEL FURNITURE. JOHN A. RUTHERFORD, Richmond, Va. Filed May 9, 1919. Serial No. 295,964. 1 Claim. (Cl. 101—402.)



Printers' furniture comprising lengths of steel, each length having a center slot and end mortises of uniform depth adapted to form a corner thereby providing a rectangular frame, said mortises fitting the said center slots.

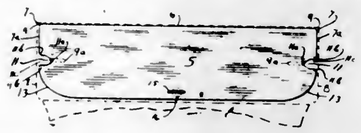
1,342,031. TOOL-HOLDER. ADAM SKIBINSKI, Greenfield, Mass. Filed Aug. 30, 1919. Serial No. 320,756. 3 Claims. (Cl. 29—98.)



1. A tool holder, embodying a head provided with an elongated tool receiving recess which is contracted at a middle point and flares toward its opposite ends and set screws threaded into the head and projecting into the widened end portions of the recess to effect angular adjustment of the tool and to secure the same in the adjusted position.

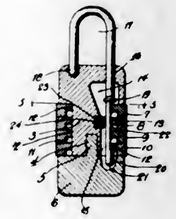
1,342,032. FLEXIBLE-SHEET FORM FOR SOFT CUFFS. JAMES A. SMITH, Buffalo, N. Y. Filed July 31, 1918. Serial No. 247,624. 3 Claims. (Cl. 2—79.)

1. A form for giving a neat shape to an ordinary French cuff, said form comprising a flat flexible sheet having an angular notch in each of its transverse edges, the apexes of said notches being spaced a distance equal to the distance between the outer corner of the band link holes so that a link directly engaging said notches and in contact with said form and passing through said holes is positioned by said form in the outer extremity of the said holes, whereby the band is held longitudinally extended and flat in appearance and the form retained in place against longitudinal and transverse movement without



necessitating any alteration in the construction of the said ordinary French cuff, said form affording a continuous surface support of substantially uniform width between the parallel edges of the cuff and being of a width to maintain the entire cuff in a smooth and stiffened condition.

1,342,033. PERMUTATION-PADLOCK. HARRY N. TENNILLE, Dumbarton, Va. Filed Apr. 18, 1917. Serial No. 163,003. 1 Claim. (Cl. 70—113.)



A lock comprising a cylindrical barrel, having a restricted neck and equipped with a head at one end and provided with a removable cap at its opposite end, a plurality of annular members rotatably mounted on the neck and held against displacement by the said cap, the said head and neck being provided with an interior longitudinal groove having a relatively large cavity at one end, a substantially U-shaped shackle having an elongated end adapted to be extended into the said cavity, the said head being provided with a relatively small recess to receive the opposite end of the shackle whereby movement of the shackle is prevented when in operative position, the said extended end of the shackle being received in the said recess and provided with a link pivotally connected to the end of the shackle and adapted for lateral swinging movement in the said cavity, a locking bolt attached to one end of the link and disposed to engage and disengage the said annular members as the said link is laterally swung in the said cavity, a spring element having one end engaged with the said locking bolt to normally urge it into engagement with the said annular members, the portion of the locking bolt thus engaged being provided with bits having flat surfaces adapted to engage the annular members to prevent withdrawal of the locking bolt and beveled surfaces to facilitate insertion of the locking bolt, each of the said annular members being provided with a notch adapted for alinement when the annular members are in a predetermined position for providing a space whereby the said bits may be disengaged from the annular members to permit withdrawal of the said locking bolt.

1,342,034. TROLLEY-HANGER. RICHARD T. TODHUNTER, HARRY A. DUKE, and ALEXANDER WOODS, Barnesboro, Pa. Filed Mar. 6, 1919. Serial No. 281,013. 1 Claim. (Cl. 181—43.)

In a device of the class described, the combination, of a pair of elongated jaws, each jaw provided with a pair

of alined sleeves and with a longitudinally extending groove and with a beveled lower portion, each jaw being provided with a longitudinally extending rib between the groove and the beveled lower portion, each jaw being provided with a pin extending inwardly upon said rib, a pair of channel trolley-supporting plates upon said pins and resting in said grooves and beveled portions, each jaw being provided with a vertical sleeve portion, said vertical sleeve portion provided with conical faces, an externally-threaded anchor bolt provided with an aperture-



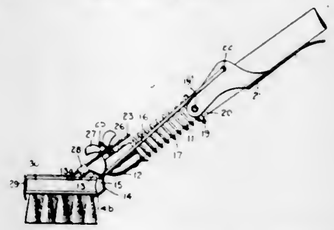
near its lower end positioned between said jaws and between said sleeves of the jaws and having its aperture registering with the apertures of the alined sleeves, a detachable fastening member extending through the aperture of the alined sleeves and the aperture of the anchor bolt, and an attaching member threaded upon said anchor bolt and having a conical portion positioned in the vertical sleeve portions of the jaws and bearing against the conical faces thereof, substantially as shown and described.

1,342,035. LOCKET. HARRY WACHENHEIMER, Providence, R. I., assignor to the Firm of Wachenheimer Bros., comprising Jacob Wachenheimer, Samuel Wachenheimer, New York, N. Y., and Harry Wachenheimer, Providence, R. I. Filed Apr. 15, 1919. Serial No. 290,250. 2 Claims. (Cl. 63—18.)



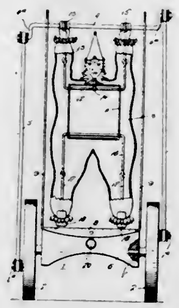
1. A locket having a body portion with spaced-apart side walls and open at its side edge, a frame slidably mounted in the space between said walls and having extending hinge pivots on its opposite ends, and upper and lower stops at the open edge of the casing to engage said hinge pivots and limit the outward movement of said frame, the side walls of said casing being set back in line with said stop edges to permit the frame to freely swing at an angle to the plane of the casing when in extended position to provide an angular supporting base therefor, said body having an eye member by which it may be suspended.

1,342,036. MOP AND BRUSH HOLDER. LOUIS WECHSLER, New York, N. Y. Filed Sept. 5, 1919. Serial No. 321,792. 1 Claim. (Cl. 15—54.)



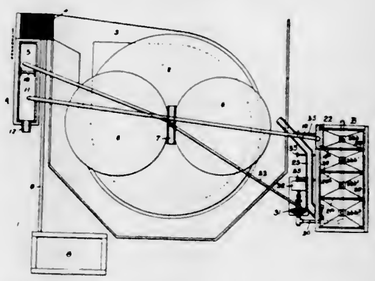
In a device of the class set forth, the combination with a mop head and means coöperating therewith to hold the mop, of means to hold a scrubbing brush in connection with the mop head, said means comprising a pair of spaced hooks on the lower portion of the mop head for coöperation with one edge of the brush back, and a clip having adjustable connection with the upper part of the head and having a hook projecting forward and downward around the opposite edge of the brush back.

1,342,037. TOY. WALTER W. WHITE 3d, W., Denver, Colo. Filed Oct. 17, 1918. Serial No. 258,607. 1 Claim. (Cl. 46—45.)



A device of the type described, including a figure simulating a human-being, a crank-shaft, a transportable base-member, a pitman actuating said crank-shaft from said transportable base-member, supporting means for said crank-shaft from said base-member, a plurality of U-shaped interjointed frame-like members, adapted to coöperate with the head, hands and feet of said figure and mechanism coöperating with said figure for actuating the same.

1,342,038. SAND-GRADING APPARATUS FOR GLASS-GRINDING MACHINERY. JOHN WILLIS, Kane, Pa., assignor to American Plate Glass Company, Kane, Pa., a Corporation of New Jersey. Original application filed Oct. 18, 1915, Serial No. 56,348. Patent No. 1,223,461. Divided and this application filed Feb. 15, 1917. Serial No. 148,825. 3 Claims. (Cl. 83—82.)



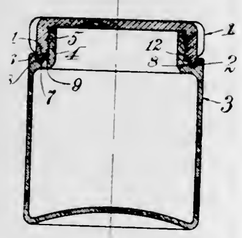
1. Apparatus for classifying and supplying abrasive and water, comprising a sand grading apparatus provided with a series of settling compartments separated by continuous transverse intervening partitions having alternately and diagonally located circulation passages through their upper edge portions whereby to effect a tortuous flow throughout the series, means for supplying abrasive and water to the first of said compartments, means for carrying off overflow from the last of said compartments, and means for withdrawing abrasive and water from each compartment.

2. Apparatus for classifying and supplying abrasive to grinding and smoothing machines, comprising a primary

grader adapted to receive water and abrasive, a secondary grader provided with a series of settling compartments separated by continuous transverse intervening partitions having alternately and diagonally located circulation passages through their upper edge portions, means for removing abrasive and water from the primary grader to the first settling compartment of the secondary grader, means for removing abrasive and water from the lower portion of each compartment of the secondary grader and delivering it to a point of use, and means for carrying off overflow from the last of said compartments.

3. Apparatus for classifying and supplying abrasive and water, comprising a primary grader adapted to receive water and abrasive, a secondary grader consisting of a series of successively arranged partitioned compartments, means for supplying sand and water from the primary grader to the first compartment of the secondary grader, means for withdrawing graded sand and water from each compartment separately and conducting the same to a point of use, and means for carrying off the overflow from the last of said compartments, the partitions or walls of the compartments being continuous and provided at their upper corner edge portions with circulation openings so located as to effect a zig zag or undulating flow of the water and sand in suspension throughout the upper portions of the several compartments with a resulting retardation of the current and accompanying precipitation of the sand.

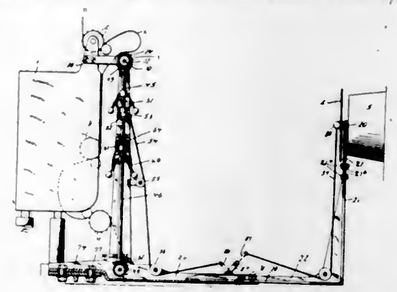
1,342,039. PRESERVING-JAR. WALTER F. BALCOM, Dayton, Ohio. Filed Oct. 20, 1919. Serial No. 331,968. 1 Claim. (Cl. 215—84.)



A preserving jar having the neck portion thereof of such diameter relatively to the body of the jar as to provide an annular channel between the base of the neck and the outer circumference of the body of the jar adapted to contain sealing material, the inner annular wall of said channel joining the neck of the jar at the base thereof in a horizontal annular shoulder, and the outer annular wall of said channel terminating in an annular tapered lip which extends above said horizontal annular shoulder, and a screw cap having an annular tapered edge, and a horizontal annular shoulder joining the inside of said edge at the base thereof, said edge being adapted to enter the sealing material in said channel, and said horizontal annular shoulder being adapted to engage the sealing material above the inner annular shoulder of the neck, when the said cap is screwed in position on the neck of the jar.

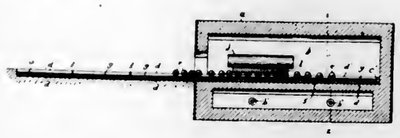
1,342,040. MOTION-PICTURE-PROJECTING MECHANISM. ANTHONY CHIARELLI, New York, N. Y. Filed Nov. 20, 1918. Serial No. 263,332. 10 Claims. (Cl. 88—17.)

1. In a motion picture projection machine, the combination with a film advancing means, of a device adapted to cut off the light rays to the film, a pair of independent elements operated by the film, and means whereby said



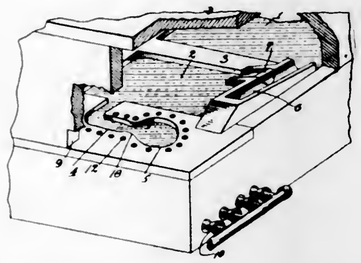
elements act in coöperation with each other to control the functioning of the said device.

1,342,041. FURNACE FLOOR-BAR. RICHARD C. DRINKER, Quincy, Mass. Filed Sept. 20, 1919. Serial No. 325,193. 6 Claims. (Cl. 263—28.)



1. The combination, with a conveyer for the heating-chamber of a forge or annealing furnace, of a plurality of rail-sections extending the whole length of the furnace-floor excepting space for expansion, and a floor-bar supported upon the tops of the sections and extended throughout the length of the heating-chamber to support the conveyer in its passage over the joints of the sections.

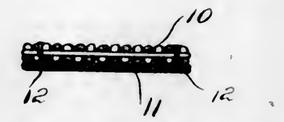
1,342,042. REMOVING OF GLASS FROM FURNACES. ENOCH T. FERNGREN, Beaver, Pa. Filed Sept. 4, 1913. Serial No. 788,174. 13 Claims. (Cl. 49—77.)



13. In glass manufacturing, the method which consists in creating a directionally predetermined and constant flow of refined glass of homogeneous fluidity, maintaining the constancy of the fluidity in the said glass, and taking successive gathers from untouched portions of the surface of the flowing glass.

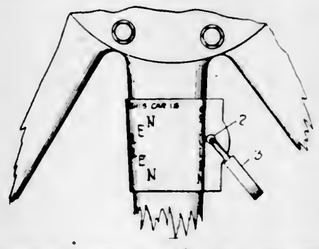
1,342,043. BRAKE-LINING. FREDERICK J. GLEASON, Walpole, Mass. Filed Aug. 1, 1918. Serial No. 247,759. 5 Claims. (Cl. 188—259.)

5. A brake lining, composed of an inner layer of relatively coarse woven fabric presenting relatively large surface areas of open interstices, and an outer backing secured thereto composed of a plurality of layers of relatively fine



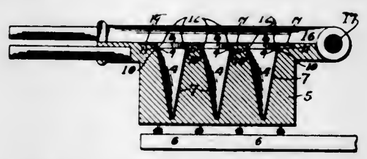
woven fabric, said inner layer and outer backing secured together by a vulcanizing binder.

1,342,044. AUTOMOBILE THEFT-INDICATING DEVICE. EDWARD S. GRACE, New York, N. Y. Filed Oct. 20, 1919. Serial No. 331,785. 5 Claims. (Cl. 116—33.)



1. A device to prevent the stealing of vehicles comprising a strip of metal formed and arranged to be slidably clamped to a spoke of a wheel, said strip bearing indications of theft, and means for locking said strip to prevent its removal.

1,342,045. APPARATUS FOR MAKING PASTRY FORMS. ERNEST A. HAMWI, St. Louis, Mo. Filed Nov. 5, 1918. Serial No. 261,284. 2 Claims. (Cl. 107—66.)

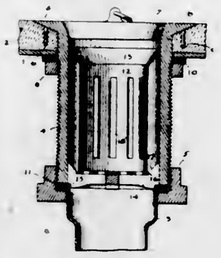


1. A mold for forming ice cream cones comprising a female mold body provided with a mold cavity enlarged at its upper end to provide an annular shoulder, the surface of the enlargement above the shoulder inclining upwardly and outwardly, a male mold body having a mold fitting in and spaced from the walls of the cavity and provided at its upper end with an annular enlargement to form a shoulder which is spaced from the shoulder on the female member and adapted to be fitted thereinto, the surface of the enlargement on the mold being vertical, whereby when the male and female members are brought together the distance between the lower edge of the shoulder on the mold and the adjacent incline surface of the enlargement of the cavity will be less than the distance between the remaining portions of the surfaces of the mold and the cavity, whereby to form a weakened circular scoring in the cone baked in the mold.

1,342,046. WASHTRAY. LOUIS HEINO, Oakland, Calif. Filed Oct. 7, 1915. Serial No. 54,565. 2 Claims. (Cl. 4—35.)

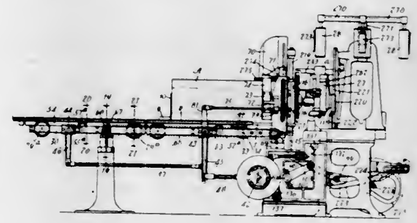
1. A waste pipe connection for wash trays comprising a cylinder having a beveled flange projecting outwardly therefrom and adapted for securing said cylinder to said wash tray, in combination with a straining cup having perforate sides located within said cylinder, a spider integrally

formed at the lower part of said cylinder, forming a support for said straining cup, said spider being provided with



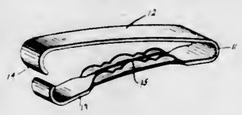
central depressed portions, to centralize said cup and upward inclined portions to direct said cup into said depressed portions.

1,342,047. CARTON OPENING AND FEEDING MECHANISM. STANLEY R. HOWARD, Boston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Maine. Filed Dec. 1, 1917. Serial No. 204,974. 43 Claims. (Cl. 93—44.)



1. A reciprocable support for a pile of blanks, means for moving said support forward bodily with the blanks thereon, means for withdrawing the blanks successively from said support, means for moving the support backward and means whereby the actuating mechanism for the withdrawal of the blanks also controls the retrograde actuating mechanism to move said support backward after a predetermined forward movement of the support and a plurality of blanks have been withdrawn.

1,342,048. CLASP. CHARLES G. HULTMAN, Cranston, and HARRY WACHENHEIMER, Providence, R. I., assignors to Wachenheimer Bros. Inc., Providence, R. I., a Corporation of Rhode Island. Filed Feb. 2, 1920. Serial No. 355,677. 1 Claim. (Cl. 24—259.)

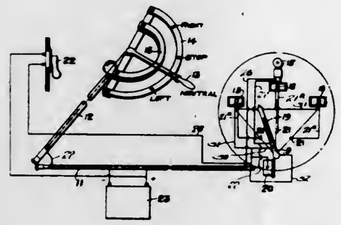


A clasp comprising a pair of opposed coöperating arms of thin resilient material having their ends formed to releasably interlock one with the other, one of said arms being reduced in width for a portion of its length with inwardly-turned stiffening flanges having notched edges for biting the fabric against said opposite arm.

1,342,049. SIGNAL DEVICE FOR AUTOMOBILES. JOSEPH KLIPPER, West New York, N. J. Filed Feb. 20, 1919. Serial No. 278,180. 3 Claims. (Cl. 177—337.)

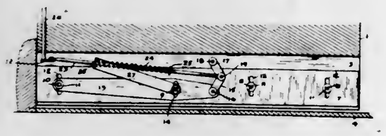
2. In a vehicle signal device, the combination of a base plate mounted at the rear of the vehicle, and carrying fixed

indications each having an electric lamp, a movable pointer mounted on said plate and also carrying an electric lamp, a handle and mechanism for moving said pointer to its



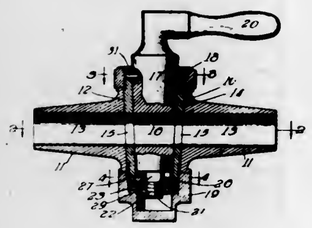
respective positions, a switch for the pointer light controlled by the movement of said handle, and switch means for the fixed lights controlled by the movement of said pointer.

1,342,050. WEATHER-STRIP. JEAN B. A. LA JEUNESSE, Alameda, Calif. Filed July 13, 1918. Serial No. 244,719. 6 Claims. (Cl. 20—68.)



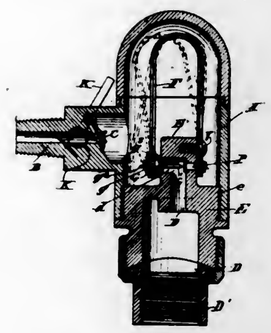
1. In combination with a door and the jamb thereof, said door provided with a channel at its lower edge, a weather strip mounted for vertical movement in said channel, mechanism including a toggle joint for normally holding the weather strip in elevated position located in said channel, a vertical rod connected to said toggle at one end by a longitudinal rod and having at its opposite end an arm engaging said jamb and thereby operating said toggle.

1,342,051. VALVE OR COCK. GEORGE LAPENDA, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,593. 2 Claims. (Cl. 251—91.)



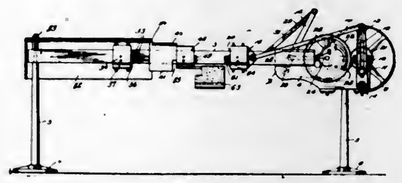
1. In a valve, the combination with a casing having inlet and outlet openings intersected by a tapered opening, of a tapered sleeve located in said tapered opening and having inlet and outlet openings to register with those of the casing and provided at its ends with external screw threads, said sleeve being of sufficient length to extend through each end of the tapered opening in the casing, a tapered plug or valve having a transverse port to register with the openings of said sleeve rotatably mounted in the sleeve, said plug having at one of its ends a reduced extension partly screw-threaded, a washer surrounding the unthreaded portion of said extension and engaging said sleeve, a nut engaging the screw-threaded portion of said extension to hold said washer in position, a cap nut engaging the projecting end of the sleeve adjacent to said extension, and another nut engaging the opposite end of said sleeve.

1,342,052. THERMOSTATIC HEAT-REGULATOR. SAMUEL LIPPERT, East Cleveland, Ohio. Filed Feb. 28, 1916. Serial No. 80,853. 4 Claims. (Cl. 137—122.)



1. In a device of the class described, the combination of a valve casing provided with an inlet passage communicating with the exhaust end of a radiator, an outlet passage in said casing positioned at a lower level than said inlet passage, a thermal valve controlling said outlet passage, a gravity actuated check valve controlling said inlet passage, and a manually operated valve positioned in said inlet passage.

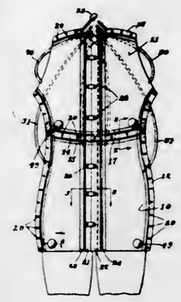
1,342,053. BUSHING-FORMING MACHINE. OSCAR W. MCKNIGHT, Columbus, Ohio, assignor to The Brunt Tile and Porcelain Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 6, 1919. Serial No. 275,295. 11 Claims. (Cl. 25—3.)



1. A machine of the class described, the combination with a supporting frame, of a tubular die stationarily supported in connection with said frame, a reciprocatory die located in horizontal alinement with said stationary die, drive means coöperative with said reciprocatory die to effect its movement into and out of head forming relation with said stationary die, and mechanism coöperative with said drive means for inserting stock into said stationary die at the end of the latter opposite to its head forming or impact receiving end.

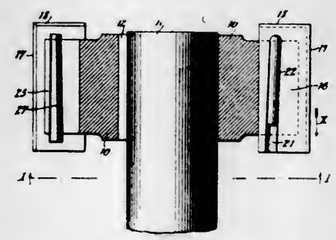
1,342,054. INFLATABLE GARMENT. KAPITON MICHALOVSKY, Akron, Ohio. Filed June 18, 1919. Serial No. 305,198. 1 Claim. (Cl. 2—74.)

In a garment closure of the character described, the combination of a seam strip for the closure of the garment at the front with a forked closure strip, forks on said seam strip, stiff spring clips upon the outer side of said seam strip having rectanuglarly bowed ends, finger clips



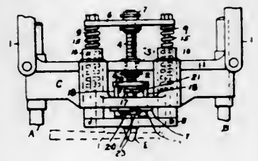
on said ends, set pins in said clips adapted to pass through the closure strip for holding both strips in close engagement.

1,342,055. CUTTER-HEAD. FRANK P. MILLER, Meadville, Pa. Filed Dec. 26, 1918. Serial No. 268,345. 2 Claims. (Cl. 29—105.)



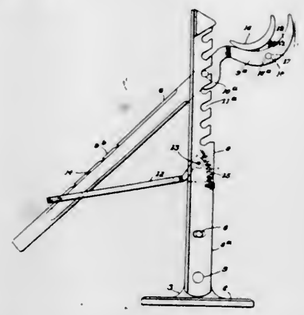
1. A cutter head, comprising a body provided on its peripheral face with transversely extending seats, cutters fitting the said seats, each seat and its cutter being provided on the contacting walls at one side with registering grooves, the said grooves being inclined radially outwardly relative to the axis of the cutter head, and a pin inserted in a pair of registering grooves to draw the cutter firmly inward into final position in its seat and to hold the cutter in this final position.

1,342,056. PRESSING-PLUNGER MECHANISM FOR GLASS-MACHINES. WILLIAM J. MILLER, Swissvale borough, Pa. Filed Apr. 7, 1919. Serial No. 287,948. 5 Claims. (Cl. 49—76.)



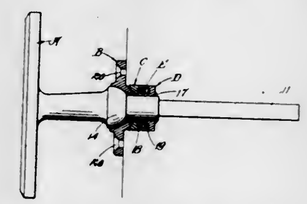
1. In a machine for pressing articles of glass, a pressing plunger mechanism comprising a reciprocating member, a yoke mounted on said member and capable of rocking in relation thereto, grasping fingers pivotally attached to said yoke and depending below said member, resilient means for spreading said fingers apart, a pressing plunger impinging against the under surface of said member, and means for locking said fingers into engagement with said pressing plunger.

1,342,057. LIFTING-JACK. FRED MILLER, Braddock, Pa. Filed June 16, 1919. Serial No. 304,643. 4 Claims. (Cl. 254—131.)



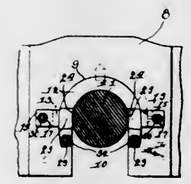
1. A jack comprising a base, an upright member pivotally mounted on said base, a lifting lever fulcrumed in said member and having a lifting foot, and a cradle mounted to swing on said foot and biased to one extreme position.

1,342,058. DOOR-HANDLE FOR AUTOMOBILES. WILLIAM MILLER, Amesbury, Mass., assignor to Amesbury Brass and Foundry Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Dec. 9, 1919. Serial No. 343,510. 3 Claims. (Cl. 292—347.)



2. In combination, an escutcheon plate having a spherical depression with a hole therethrough, a handle rod passing through the said hole, two members on the handle rod one of which is convex and the other is concave, said two members engaging opposite sides of the spherically depressed portion of the escutcheon plate, and means to secure the escutcheon plate and thereby the entire assembly to the surface on which the device is to be placed.

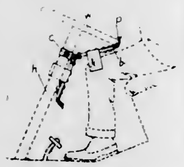
1,342,059. ADJUSTABLE JOURNAL-BEARING. JOHN MURRIN and ELMER J. BREWSTER, Chicago, Ill. Filed Sept. 26, 1919. Serial No. 326,558. 2 Claims. (Cl. 64—55.)



1. In an adjustable journal bearing, the combination with a box provided with a bearing opening for the journal and having in the walls of said opening a pair of opposed recesses diametrically and horizontally disposed with respect to the journal, said bearing opening also

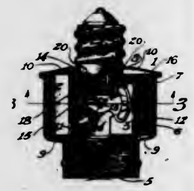
having in each of its lateral walls a recess located below each of the first named recesses, of a segmental crown piece located in the upper portion of said bearing opening, a quarter piece located in contact with the lower surface of each side of said crown piece and inwardly of each of the first named recesses, a lockable tapered key adjustably located in each of the recesses at the outer surfaces of said quarter pieces and a tapered key lockably located in each of the recesses below the quarter pieces.

1,342,060. AUTOMOBILE-CONTROL DEVICE. EDWIN A. PAGE and CLARENCE R. PAGE, Youngstown, Ohio. Filed Sept. 22, 1919. Serial No. 325,573. 8 Claims. (Cl. 74—33.)



1. In a device of the character described, a bar swingingly mounted upon the housing of the steering post, and with its free or outer end adapted to engage the steering wheel, and a dependent knee-plate secured to said bar intermediate its ends.

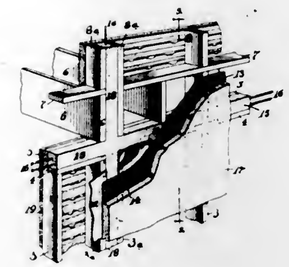
1,342,061. SWITCH AND CONTACT MECHANISM FOR ELECTRIC-CURRENT-REGULATING PLUGS AND SOCKETS. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 29, 1920. Serial No. 369,665. 8 Claims. (Cl. 219—49.)



2. In a device of the character stated, a body, a plate secured thereto and having a bearing pin and a stop pin secured thereto, a shank rotatably mounted on said bearing pin, a contact lever rotatable in unison with said shank and having a finger at one end, and a curved slot at the other end coacting with said stop pin, and a key in engagement with said shank for rotating the latter and said contact lever.

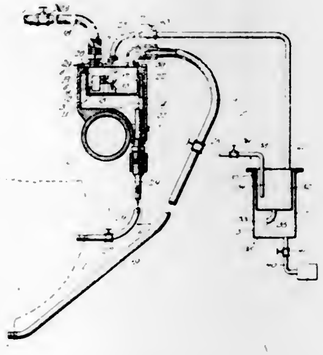
1,342,062. BUILDING. EMILE G. PERROT, Philadelphia, Pa. Filed Feb. 18, 1918. Serial No. 217,787. 9 Claims. (Cl. 72—16.)

5. In a combined frame and cement building, a skeleton frame including closely arranged studs in pairs, floor joists and a ledger-board upon which the joists rest, said ledger-board having a suitable bottom to support cementitious material, meshed metal covering the outside of the framing and extending across the space between the closely arranged studs of the pairs and also in front of the ledger-board, and cementitious material extending entirely over the meshed metal and through it, and also filling the vertical spaces between the closely arranged studs of the pairs to form vertical studs of cementitious material continuous above and below the joists and also filling the space formed by the ledger-board and bottom to provide a sill of cementitious material, said studs and sill



integrally connecting and also integral with the outer wall of cementitious covering material through the meshed metal.

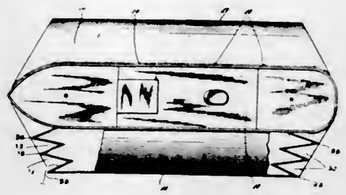
1,342,063. PURIFYING APPARATUS FOR LUBRICANTS. FRANK R. PERRY, Chicago, Ill., assignor of one-half to Harry S. Benjamin, Detroit, Mich. Filed Oct. 23, 1917. Serial No. 198,032. 6 Claims. (Cl. 184—6.)



6. In a device of the kind described and in combination, a receptacle provided with a bottom loosely seating on the margin thereof and operable to release the contents from the receptacle, a counter-weight arranged to normally maintain the bottom in position to close the receptacle, a vacuum pipe and a supply pipe connected with the receptacle, a second receptacle below the level of the first, an air duct connecting the two receptacles from a point above the bottom of the first to a point below the top of the second, a drain duct arranged to conduct fluid from the second receptacle, said second receptacle being provided with an air duct communicating near the top thereof.

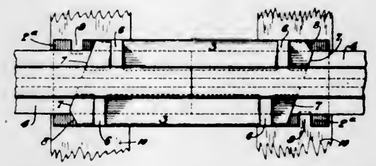
1,342,064. ANTISUBMARINE DEVICE. PETER PETRUSAVAGE, Mahanoy City, Pa. Filed June 7, 1918. Serial No. 238,631. 1 Claim. (Cl. 114—10.)

In an anti-submarine device, the combination with the hull of a ship, of angularly disposed plates secured along the gunwale thereof, said plates extending outward and downward to the surface of the water on which the ship floats, oppositely disposed plates affixed to said hull near the keel thereof and joined with said upper pair of said plates at the top edges, said plates being adapted to gradually intercept and direct a missile over and under the ship, as the case may be and a plurality of accordion like



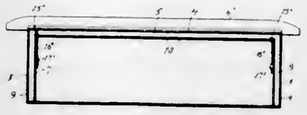
vertical elements engaged between said plates at the ends thereof, adapted to intercept missiles moving in a plane parallel to the center line of said ship.

1,342,065. RAIL-JOINT. JOHN J. POWLICK, Clairton, Pa. Filed Dec. 12, 1919. Serial No. 344,475. 2 Claims. (Cl. 238—205.)



1. A one piece rail joint consisting of an integral metal body portion having a main flat supporting base provided with a continuous plane bottom portion and a continuous plane upper rail supporting portion from end to end, upwardly enlarged side portions extending above the edge portions of the base and inwardly and then upwardly thereof above its middle portion forming integral flanges and web embracing portions and an intervening space therebetween, reinforcing bracing ribs thereon at opposite sides in non-registering positions, the ends of the upwardly extending side portions being slopingly arranged across the rail receiving space with respect to the longitudinal center of the rail joint and terminating in short reversely sloped faces at diagonally opposite corners, the terminals of all of said sloping faces being about equidistant from the several bracing ribs, the bottom portion of the rail joint extending flush with the upwardly extending sides beyond said sloping faces and having at diagonally opposite positions an inwardly extending spike receiving recess adjacent the main sloping end portion of the joint, substantially as set forth.

1,342,066. VENTILATOR. NICHOLAS RENNER, Defiance, Ohio. Filed July 2, 1919. Serial No. 308,231. 1 Claim. (Cl. 98—23.)

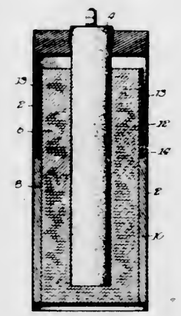


A railway car having a roof, a pair of parallel channels extending from end to end thereof, one of said channels opening directly through the ends of the car, the end walls of said car being provided with lateral channels communicating at their upper ends with the other of said parallel channels and at their lower ends with the exterior of the car, the car roof being formed with passages leading from the interior of the car to the said parallel channels.

1,342,067. PROCESS OF PRODUCING MOLDED PRODUCTS. LINWOOD T. RICHARDSON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 6, 1918. Serial No. 238,463. 14 Claims. (Cl. 18—55.)

1. The process of producing a phenolic condensation product, which comprises: heating, in proportions to afford about one methylene group to each phenolic group, a mixture of a phenolic body and a non-volatile active methylene body which are capable of re-acting anhydrously to form a condensation product; arresting the re-action after an initial condensation product has been formed which has less than half of the phenolic body combined with the methylene radical; mixing together a filler and a binder comprising such initial product; forming the materials into a compacted body without converting the mass to an insoluble state; and subjecting said body to heat treatment to produce a hard resistant and substantially infusible body.

1,342,068. ELECTRIC BATTERY. OTTO E. RUHOFF, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1919. Serial No. 293,050. 3 Claims. (Cl. 204—29.)



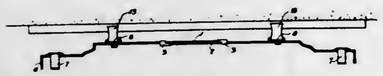
2. In an initially operative electric battery in combination with a zinc can, a carbon rod and depolarizing material therein, an electrolyte extending part way up the zinc and carbon and depolarizing material, and a reserve portion of electrolyte secured about the carbon and depolarizing material but clear of the zinc for the purposes set forth.

1,342,069. CONTAINER. LORRAINE J. SCHUMAKER, Philadelphia, Pa., assignor to The American Pretzel Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Dec. 2, 1919. Serial No. 341,976. 2 Claims. (Cl. 206—46.)



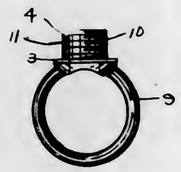
1. A package comprising a frame (formed by members connected so as to provide open opposite sides) having therein a skeleton shaped food product, and a transparent wrapper inclosing said frame and product, whereby said product can be seen in outline.

1,342,070. SHADE-HOLDER. BEN SELWACKI, Kulpmont, Pa. Filed July 5, 1919. Serial No. 308,768. 1 Claim. (Cl. 156—23.)



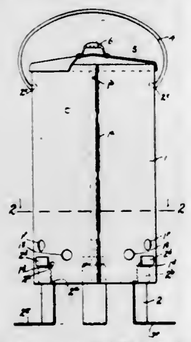
In a device of the class described, a combined curtain and shade holder comprising a horizontal bracket composed of two parts having telescopic connection, means for providing said connection consisting of a sleeve rigid to the inner end of each of said parts and embracing the other part, clamps for attaching the device to a window frame comprising a troughed member rigid to each of said parts, said members extending equally above and below each of said parts, substantially S-shaped clamps slidable in said trough, eyes rigid to the inner ends of said clamps, the interior of said eyes being screw-threaded, and an adjusting screw passing through each pair of said eyes, the ends of said parts being bent first downward and then at right angles to the same and upward, said last named bent portions being provided with troughs and eyes, an upright member rigid to each of said parts near the outer end thereof and being bent in substantially the form of a horizontal S.

1,342,071. METHOD OF MAKING INSTALLATION-LOOPS FOR ELECTRIC FIXTURES. JOHN SHONER, Waterbury, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Oct. 28, 1919. Serial No. 333,974. 1 Claim. (Cl. 29—148.)



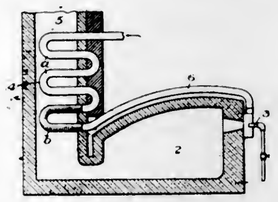
A method of producing installation-loops for electric fixtures, consisting in subjecting a rod-slug to a heading operation for producing a countersunk stem-end, a bulged ring-end and an annular seating-flange between the same, then subjecting the article to one or more stamping operations for flattening its bulged ring-end to the required thickness and diameter, then piercing its flattened ring-end to produce the ring, and threading and drilling its stem-end.

1,342,072. PORTABLE STOVE. THOMAS E. TAYLOR, Mansfield, Ohio, assignor to The Eclipse Stove Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,838. 3 Claims. (Cl. 126—59.5.)



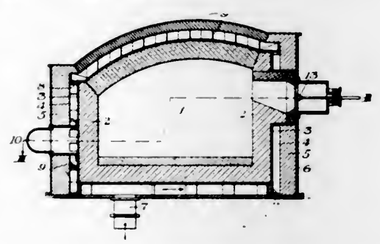
1. An orchard heater, comprising a heater body provided with leg receiving openings, leg members removably mounted in the latter and provided with grate supporting shoulders, and a grate removably mounted on the latter and holding said leg members in assembled position.

1,342,073. RECUPERATOR. CHARLES L. W. TRINKS, Pittsburgh, Pa., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1919. Serial No. 320,503. 5 Claims. (Cl. 266—30.)



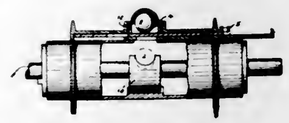
2. A recuperator having metallic members with which the air to be heated contacts, said members at the low temperature portion of the recuperator being of a low heat-resisting quality and at the high temperature portion of the recuperator being of a high heat-resisting quality, substantially as described.

1,342,074. HEATING-FURNACE. CHARLES L. W. TRINKS, Pittsburgh, Pa., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1919. Serial No. 320,504. 9 Claims. (Cl. 266—46.)



7. A heating furnace having thin refractory walls, a metal casing surrounding said walls and having spacing ribs on its outer surface, said spacing ribs being arranged to direct the flow of air along said casing, a heat-insulating material resting against said ribs, and an outer metal casing surrounding the heat-insulating material, substantially as described.

1,342,075. LOCK. CORNELIS VAN DER LEUN, The Hague, Netherlands. Filed Mar. 6, 1919. Serial No. 280,994. 5 Claims. (Cl. 70—18.)



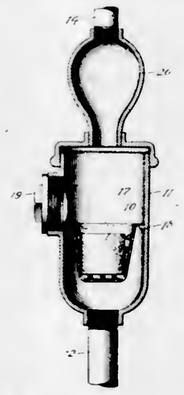
1. A lock of the class described, comprising a pair of relatively movable members, each of which has a pocket formed therein, which pockets are connected by a passage, locking means movable from one to the other of said pockets, a shoulder on one of said members adapted to coact with said locking means when seated in the pockets of said one member so as to secure both of said members against relative movement, a plate shiftably mounted on the other of said members and having an aperture therein adapted to be moved into and out of registration with said passage, and a pair of plates shiftably mounted in the same plane with each other upon said first-mentioned plate, and each having a recess formed in the edge thereof, said pairs of plates being independently movable for bringing said recesses into and out of registration with each other and with said passage so as to coact with the aperture in said first-mentioned plate for controlling the passage of said locking means from one of said pockets to the other.

1,342,076. SHUTTER FOR CINEMATOGRAPHS. ARBA VAN WORMER, Fort Wayne, Ind. Filed Aug. 28, 1919. Serial No. 320,437. 4 Claims. (Cl. 88—19.3.)



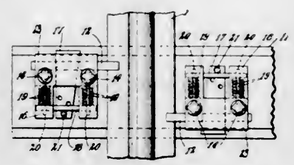
1. In a cinematographic shutter, a pair of disks supported to rotate upon a common axial center and being adjustably positioned apart from each other, each disk having opposite exposure openings and a cover blade and also a shadow blade oppositely positioned between the exposure openings, the blades of each disk having a series of concentric slots and corresponding intervening concentric bars, the bars in the blades of one disk being positioned so as to obstruct light projected through the slots of the other disk.

1,342,077. LUBRICATING SYSTEM FOR STEAM-ENGINES. REYBURN WATHES, Scranton, Pa. Filed Feb. 2, 1916. Serial No. 75,775. Renewed Oct. 9, 1919. Serial No. 329,634. 3 Claims. (Cl. 184—60.)



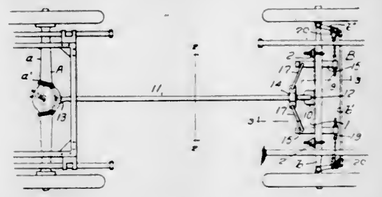
1. In a lubricating system of the kind described, the combination with a steam engine having a steam chest, and a steam supply pipe therefor, of a lubricating device adapted to condense steam supplied to it and adapted to contain a body of soluble lubricant in the path of the moisture condensed from the steam, a pipe connecting the steam pipe to the lubricating device to permit condensation of steam above the body of the lubricant, and means connected to the lubricating device below the body of the lubricant for conveying the dissolved lubricant to the steam chest.

1,342,078. RAIL-CLAMP. FELIX WISNIEWSKI, South Amboy, N. J. Filed Oct. 22, 1919. Serial No. 332,468. 4 Claims. (Cl. 238—333.)



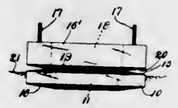
1. A rail clamp of the character described comprising in combination with a rail, cut-away blocks adapted to be secured to the ties at both sides of said rail, clamp rods in said blocks adapted to press upon the foot flanges of a rail, means in said blocks for clamping said rods against the foot flanges of said rail, means for normally locking said clamping means in its operative position, and means for releasing said locking means.

1,342,079. VEHICLE-TOWING DEVICE. EDWARD YODER, Tulsa, Okla. Filed Nov. 2, 1918. Serial No. 260,771. 6 Claims. (Cl. 280—33.5.)



2. A towing device for vehicles comprising a bar adapted to be attached to the front axle of a vehicle, a pair of steering arms pivotally mounted on said bar, means for connecting said arms with the vehicle steering gear, and a pole or rod pivotally secured to said bar and connected with said arms.

1,342,080. GLASS-DRAWING APPARATUS. JAMES H. ALLAN, Morgantown, W. Va., assignor, by mesne assignments, to United States Window Glass Company, Morgantown, W. Va., a Corporation of West Virginia. Filed Dec. 21, 1915. Serial No. 68,005. Renewed Nov. 6, 1919. Serial No. 336,233. 5 Claims. (Cl. 49—61.)



1. An improvement in glass drawing apparatus comprising a ring member and a superposed top stone member contacting therewith, the opposed faces of said members having a complemental groove and rib connection providing a flame barried between the members above the normal lever of the molten glass, said opposed faces having spaced apart portions surrounding the groove and rib connection and adjacent thereto to permit the heating of the groove and rib connection.

2. An improvement in glass drawing apparatus comprising a ring member, a superposed top stone, and means for providing a glass seal between said ring and said top stone and separated from the bath of molten glass, the opposed faces of the ring and the top stone being shaped to permit heat to reach the glass seal, whereby the latter is maintained in a molten condition.

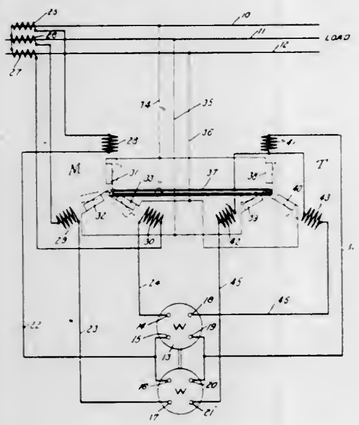
3. An improvement in glass drawing apparatus comprising a ring member having a central opening, and an annular groove in its upper face surrounding said opening, the

top surface of said ring member being beveled, and a top stone having a central opening and an annular rib on its bottom surface surrounding said opening, and located to engage said groove, the under surface of said top stone being beveled.

4. An improvement in glass drawing apparatus comprising a buoyant ring member having a central opening, a superposed top stone also having a central opening, the opposed faces of the top stone and the ring having complemental interfitting portions forming a seal to prevent flames from passing between them to said openings, said opposed faces having beveled portions to permit heating of the interfitting portions.

5. An improvement in glass drawing apparatus comprising a buoyant ring member, and a top stone above the ring member and contacting therewith, the superposed contacting faces of the top stone and the ring member being provided with annular interengaging portions capable of retaining glass seal separated from the bath of molten glass, said contiguous faces being flared from the interengaging portions to the peripheries to permit the access of sufficient heat to the glass seal to maintain the glass in a molten condition.

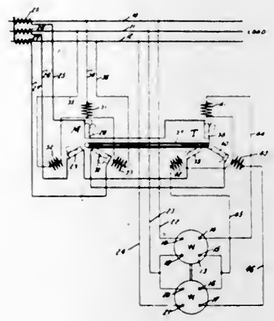
1,342,081. VOLT-AMPERE METER. DONALD J. ANGUS, Indianapolis, Ind. Filed Aug. 25, 1919. Serial No. 319,765. 20 Claims. (Cl. 171—309.)



1. In combination, a meter having voltage and current windings, a transformer having relatively movable primary and secondary members of which at least the primary member is wound to produce a rotating magnetic field, the winding of the secondary member being connected to the voltage winding of said meter and the winding of the primary member being arranged for voltage connection across a polyphase circuit, and a motor device mechanically connected to said transformer and having two relatively movable members one of which is arranged to be excited in definite phase relationship with the primary of said transformer and the other of which is arranged to be excited in definite phase relationship with the current supplied to the current winding of the meter.

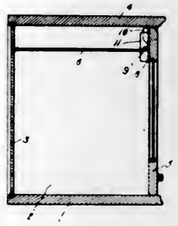
1,342,082. VOLT-AMPERE METER. DONALD J. ANGUS, Indianapolis, Ind. Filed Aug. 25, 1919. Serial No. 319,766. 23 Claims. (Cl. 171—309.)

1. In combination, a meter having voltage and current windings, a transformer having relatively movable primary and secondary members of which at least the primary member is wound to produce a rotating magnetic field, the winding of the secondary member being connected to the current winding of said meter and the windings of the primary member being arranged for current connection to a polyphase circuit, and a motor device mechanically connected to said transformer and having two relatively movable members one of which is arranged



to be excited in definite phase relationship with the primary of said transformer and the other of which is arranged to be excited in definite phase relationship with the voltage impressed upon the voltage of the meter.

1,342,083. BOOKCASE. JACOB F. ARNOLD, Bellevue, Ohio. Filed Mar. 14, 1919. Serial No. 282,658. 4 Claims. (Cl. 45—78.)



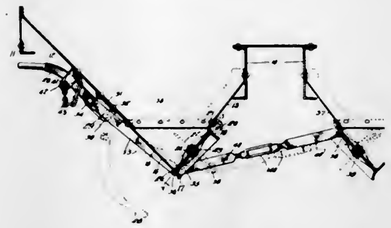
1. A book compartment or case, a horizontal rod upon each side of the compartment, a horizontal angular portion upon each rod, a door, and attaching members upon the door for engagement with the rods, each attaching member comprising a channel portion for sliding engagement with the adjacent rod and a hook spaced from and at one side of the end of the channel portion and arranged for swinging engagement with the angular portion of the rod when the channel portion is released from the rod.

1,342,084. COMPOSITION OF MATTER AND METHOD FOR PRODUCING THE SAME. LOUIS E. BARTON, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a Corporation of Maine. Filed Sept. 4, 1919. Serial No. 321,688. 16 Claims. (Cl. 204—31.)

1. The new composition of matter consisting, by analysis, preponderatingly of zirconium and containing also nitrogen in quantity less than zirconium and carbon in quantity less than nitrogen.

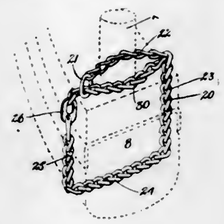
14. The method of treating material, for example ore, containing oxid of zirconium, which comprises mixing such material with a carbonaceous reducing agent, heating the mixture to decomposition of said oxid, and treating the resulting melt to a bath containing dilute sulfuric acid.

1,342,085. CAR. WILLIAM F. BATHO, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Filed July 3, 1919. Serial No. 308,636. 12 Claims. (Cl. 105—239.)



1. In a car adapted for the carrying of grain and the like, in combination: a pair of oppositely arranged hoppers, chutes extended from said hoppers, a door for each of said chutes, an operating shaft for each of said doors, a crank arm on each of said shafts, an operating lever pivotally connected to the car, a link pivotally connected to said lever and to one of said crank arms, and a further link connecting the two crank arms.

1,342,086. ANTISKID-CHAIN. FRANK A. BOWER, Brooklyn, N. Y., assignor to Charles D. Schmidt, Jamaica, N. Y. Filed June 7, 1919. Serial No. 302,579. 2 Claims. (Cl. 152—2.)

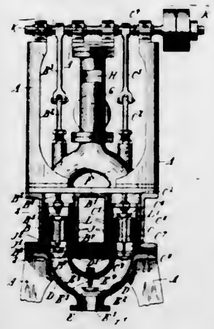


1. The combination with a wheel, of an anti-skid chain adapted to be applied to a wheel, a single loop member permanently connected to one end of a simple length portion of said chain, and a single hook member permanently fastened to the other end of said portion, said chain having a portion passing through said loop to form a chain loop around the wheel spoke and another chain loop around the wheel tread in such manner that the relative sizes of the chain loops are adjustable by said hook member and breakage of said tread loop will leave the chain attached to the wheel by the loop around the spoke.

1,342,087. PUMP OR THE LIKE. ALFRED GEORGE BROWNING, South Norwood, London, England. Filed Nov. 13, 1919. Serial No. 337,761. 12 Claims. (Cl. 103—81.)

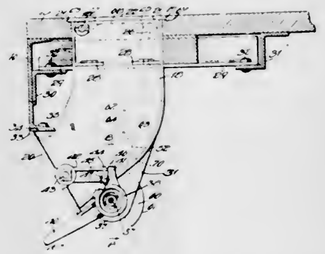
1. In a pump or the like the combination with a piston and cylinder of projections on both such parts each encircling the axis of the cylinder, one set of projections overlapping and sliding in the other set during the relative reciprocation of piston and cylinder and relief valves communicating with the spaces between the projections, for the purpose specified.

5. In a pump or the like the combination with a piston and cylinder of projections on both such parts each encircling the axis of the cylinder, one set of projections overlapping and sliding in the other set during the relative reciprocation of piston and cylinder, a conduit through the piston, a valve controlling each end of such conduit and stems on said valves, one valve being mounted with its stem to slide in the piston and having a projection relatively to which the stem of the second



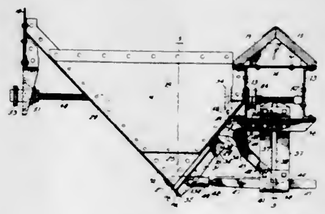
valve slides, such projection serving as the sole guiding means for the stem of the second valve, for the purpose specified.

1,342,088. MEANS FOR DISCHARGING MATERIALS FROM RAILROAD-CARS. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Filed Dec. 26, 1918. Serial No. 268,316. 2 Claims. (Cl. 105—239.)



1. In a railroad car, the combination with the car floor having an opening therein, of a chute leading downwardly from said opening, a door for said chute, a shaft mounted on said chute, flexible operating means connecting the shaft and the door, the shaft being provided with an operating handle, the said handle being provided with a lug, and a pawl mounted on said chute adapted to engage said lug to secure the shaft against rotation therein.

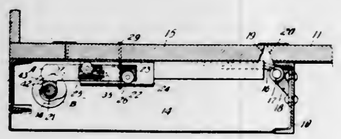
1,342,089. CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Filed May 19, 1919. Serial No. 298,181. 3 Claims. (Cl. 105—248.)



1. In a car of the character described, having hoppers on opposite sides of the center sills provided with center dumping hopper doors disposed in transverse alinement, the combination with a transversely extending operating

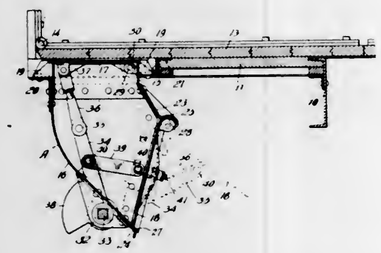
shaft disposed between pairs of hoppers, said shaft being mounted at its inner end in bearings carried by the center sills and extending through one of the center sills, of sheave wheels carried by said shaft, one being located outside of a center sill and the other on the inner side thereof, a longitudinally extending operating shaft disposed below the transverse shaft and having a pair of sheave wheels thereon, flexible connections extending between said sheave wheels, said longitudinally extending shaft being disposed beneath the center sill through which the transverse shaft is extended, and link connections from said longitudinally extending shaft to the sets of hopper doors for operating the latter simultaneously.

1,342,090. DOOR-OPERATING MECHANISM. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Filed May 19, 1919. Serial No. 298,182. 3 Claims. (Cl. 105—302.)



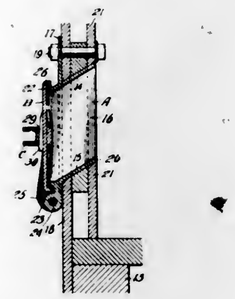
1. In an operating mechanism of the character described, the combination with a pivoted door and a shaft rotatably mounted about a fixed axis, said shaft extending parallel to the free edge of the door adjacent thereto but outside of the path of movement of the free edge of the door; of a latch on the door at the free edge thereof, said latch being mounted to slide on the door in a direction at right angles to said shaft and restricted to such sliding movement; a drum on said shaft; alined sets of cooperating teeth on said drum and latch; a flexible connection attached at one end to said latch in line with the teeth thereon, said connection being attached at its other end to said shaft; and means on said drum for guiding the flexible connection during the closing operation of the door, so as to compel the flexible connection to extend tangentially from the drum directly in line with the teeth of the drum and latch from the time the latch first engages the drum until it is directly supported thereby during the latter portion of the closing operation.

1,342,091. MEANS FOR DISCHARGING MATERIALS FROM RAILROAD-CARS OR OTHER SIMILAR CONTAINERS. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Filed July 5, 1919. Serial No. 308,736. 19 Claims. (Cl. 105—239.)



10. In a railroad car, in combination, chute, a hinged door therefor, a link connected to said door, an arm connected to said link and a shaft for rotating the said arm, the said shaft being mounted upon the chute.

1,342,092. MEANS FOR DISCHARGING GRAIN AND SIMILAR MATERIALS FROM CARS OR OTHER CONTAINERS. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Filed July 5, 1919. Serial No. 308,737. 5 Claims. (Cl. 105—239.)



3. In a device of the character described, a chute, a flange for attachment extended therefrom, a door pivoted to said chute and a lever, the flange being provided with a boss and with a bracket, the lever being pivoted to the boss and adapted to enter said bracket, the door being provided with a camming face engaged by said lever to force the door into tight closure of the chute.

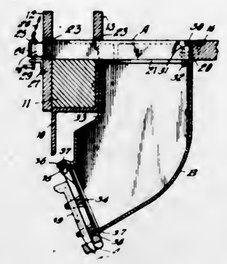
1,342,093. CAR-DOOR-OPERATING MECHANISM. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1919. Serial No. 333,042. 8 Claims. (Cl. 105—301.)



1. In a mechanism of the character described, the combination with a member provided with a door opening and a door for closing the opening, of an operating shaft carried by said member and movable relatively to one edge of said door; and a flexible connection consisting of a plurality of movably united elements interposed between said shaft and said edge of the door, said shaft and one of the elements of the flexible connection having coöperating means to force the shaft away from said edge of the door when the shaft is rotated in an unwinding direction when the door is in closed position, the load from the door in the closed position of the latter being transferred to the shaft without torsional effect by said element of the flexible connection.

1,342,094. GRAIN-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1919. Serial No. 333,043. 2 Claims. (Cl. 105—239.)

1. A grain car having the usual side door opening, said car having also a floor opening located adjacent the side wall thereof and at one side of and adjacent to the side door opening, a chute secured to the car and extending downwardly through said floor opening, the top of said chute being substantially flush with the floor of the car and having its lower end deflected, a door, horizontally movable flush with the car floor and adapted to close the top of said chute, the side wall of the car being cut away to permit said movements of the door and operation thereof from the side of the car at a point adjacent the side door opening of the car, the location of said chute permitting discharge of grain from behind the usual grain



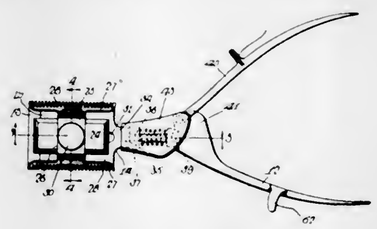
door and at the same time being out of the usual path of trucks passing into and out of the car through said side door opening.

1,342,095. CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1919. Serial No. 333,044. 7 Claims. (Cl. 105—250.)



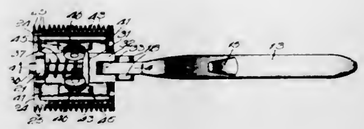
1. In a car having a centrally disposed bottom opening, the combination with a pair of longitudinally arranged doors pivotally mounted to swing about axes extending lengthwise of the car; of a pair of end doors pivotally mounted to swing about axes extending transversely of the car; mechanism for primarily closing one of said pairs of doors; and means, carried by said pair of primarily operated doors, for closing the other pair of doors.

1,342,096. HAIR-CLIPPER. EUGENE S. CARLSEN, Chicago, Ill. Filed Mar. 27, 1919. Serial No. 285,462. 4 Claims. (Cl. 30—1.)



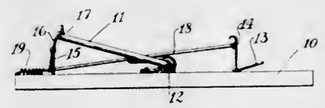
1. In a hair clipper, the combination with a body or base plate having a handle member extended from one end thereof and provided with spaced apart knives at one of its side edges and having an apertured projection near said base plate, of a handle lever fulcrumed on the said handle near said projection and provided at its inner end with an arm, a bar movably mounted on the base plate and having at its inner portion a projection provided with a screw threaded opening in alinement with the opening in the projection of the said handle member, a headed bolt extended through the opening of the projection on the handle member and adjustably engaging the projection on the movable bar, a spring surrounding said bolt between the head thereof and the projection on the handle member, means on the head of the bolt to engage the arm of the handle lever, said movable bar having knives at one of its side edges to co-act with the knives of said body or plate.

1,342,097. HAIR-CLIPPER. EUGENE S. CARLSEN, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,684. 1 Claim. (Cl. 30—1.)



In a hair clipper, the combination with a body or base having a handle member extended from one end thereof and provided with detachably diverging sides each having a row of spaced apart knives at its free edge, said base having a pair of projections, each having a transverse opening therein, of a handle member fulcrumed on one of the projections and provided at its inner end with a cam arm extended toward the base, a plunger located between said projections for longitudinal movement and having a rearwardly extended projection located in the opening of the projection on which the handle member is fulcrumed and provided with a recess to receive and engage said cam arm, said plunger also having a longitudinally extended screw threaded opening in its front portion, a bolt extended through the aperture of one of the projections on the base and having screw threads to engage said opening in the plunger, a spring encircling said bolt between the plunger and the last named projection of the base, said plunger also having laterally disposed arms on its sides, a movable bar having a row of knives at one of its edges to co-act with the knives of the sides of said body mounted for reciprocal movement on the inner surfaces of each of said body sides and detachably engaging the arms of said plunger, and means on the sides of the body to hold and guide the movable bars in their movements.

1,342,098. MOUSETRAP. JESSE R. CARSON, Lawrence, Kans. Filed Jan. 2, 1919. Serial No. 269,207. 2 Claims. (Cl. 43—81.)



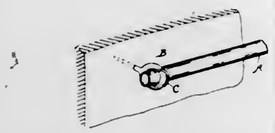
1. An animal trap including a base, a spring urged jaw mounted on the base, trip member mounted on one end of the base, a detent mounted on the other end of the base and engageable with the jaw, means loosely connecting the trip member and the detent for moving the detent to release the jaw, and resilient means between the detent and the base for normally holding the detent in position to automatically engage with the jaw when the jaw is moved into set position.

1,342,099. ROD-SUPPORT. LEROY V. CRAM, Detroit, Mich. Filed June 13, 1919. Serial No. 303,944. 6 Claims. (Cl. 156—19.)

1. The combination with a rod and support for said rod, of a quick detachable latch member restraining said rod against longitudinal shifting in said support.

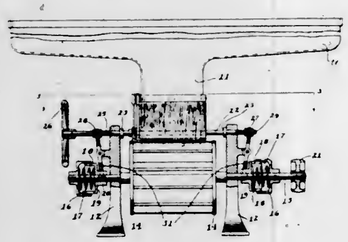
3. The combination with a rod and an annular support therefor, of a spring latch member crossing said support and detachably engaging the rod at each side of the support.

6. The combination with a rod having a pair of sockets therein at opposite sides thereof, of an annular support



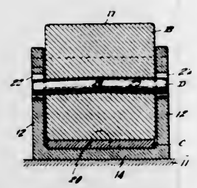
for said rod engaging the same between said sockets, and a latch member extending across said support and having its extremities detachably engaging said sockets.

1,342,100. WATER-MILL. SAM N. DALMANT, Wetonka, S. D. Filed July 24, 1919. Serial No. 313,053. 2 Claims. (Cl. 253—28.)



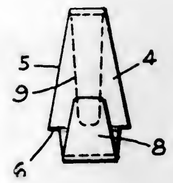
1. In a bucket wheel, the combination with a pair of standards, a shaft journaled transversely therein, and a bucket wheel mounted on said shaft, of a sluiceway adapted to deliver water to said bucket wheel, a gate hingedly engaged with said sluiceway, one or more friction heads secured upon said shaft, sliding elements on said shafts engaged with said friction heads, levers arranged to operate said sliding elements, means for operating both of said elevers simultaneously, and means combined therewith for actuating said gate.

1,342,101. SIDE BEARING. CHARLES E. DATH, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 29, 1919. Serial No. 334,159. 2 Claims. (Cl. 64—65.)



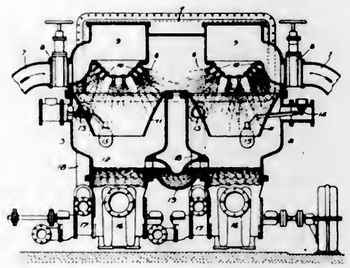
2. In a side bearing for railway cars, the combination with a hollow substantially box-like base casting adapted to be secured to a bolster and having end walls, slotted side walls, and a bottom wall, the latter having teeth extending toward the interior of the base casting, of a perforated wear plate fitting over said teeth and of thickness less than the height of said teeth, an anti-friction element having sockets coöperable with said teeth to prevent bodily shifting of said element with respect to the base casting, and a relatively slight distorted frictionally-held pin extending through the anti-friction element, the ends of said pin being disposed within said slots of the said walls.

1,342,102. COLLAR-BUTTON AND NECKTIE-SLIDE. ALBERT J. EDWARDS, Indianapolis, Ind. Filed Jan. 19, 1920. Serial No. 352,428. 1 Claim. (Cl. 24—61.)



A collar button and necktie slide combined comprising a tapering body portion, the lower end thereof being wider than the upper, shoulders formed on said lower end, an offset portion in proximity to said shoulder, the extreme lower end of the device being bent upwardly on the same side as the offset, and the extreme upper end being tapered and being bent downwardly on the side opposite to the upwardly bent end.

1,342,103. CONDENSER INSTALLATION. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 8, 1916. Serial No. 89,820. 8 Claims. (Cl. 261—23.)



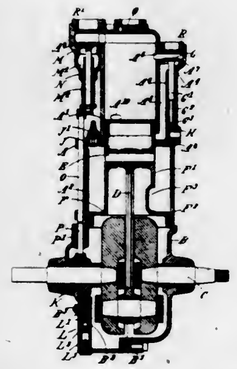
1. The combination with a plurality of condensers having communicating condensing chambers receiving steam from the same inlet and provided with separate air outlets and separately controlled condensing jets, of a connection between the water legs of the condensers adapted to permit condensate in an inoperative condenser to flow to an operative condenser and prevent uncondensed vapor entering the inoperative condenser from the said inlet, from passing to the air off-take of the operative condenser through the said connection.

1,342,104. BURGLAR-ALARM. ALBERT A. TERSTYANSKY, Bridgeport, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Oct. 7, 1919. Serial No. 329,048. 6 Claims. (Cl. 116—82.)



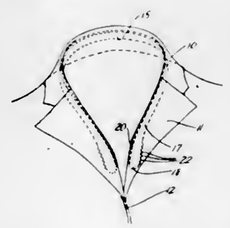
1. A burglar alarm comprising a wedge-shaped casing including a cover hinged thereto adjacent the point of its wedge and provided at its opposite free end with a flange adapted to extend into said casing, the end of said casing adjacent said flange being provided with a horizontal slot extending substantially throughout the width of said end and merging into a notch that is disposed above said slot and of a length less than that of said slot, spring-pressed detonating hammers within said casing adapted to project through said notch, and cap-carrying means on said hammers adapted to contact with the sides of said casing, said flange resting normally on said hammers when the latter are disposed within said notch, whereby, upon depressing said cover, said hammers are forced into said slot, thereby rendering the spring operative.

1,342,105. TWO-STROKE INTERNAL-COMBUSTION ENGINE. FREDERICK PERCY FLINT, Ponders End, England. Filed June 3, 1919. Serial No. 301,505. 2 Claims. (Cl. 123—71.)



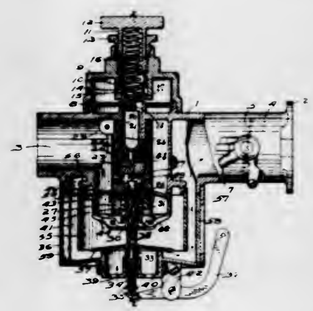
1. In a two-stroke cycle internal-combustion engine of the character described, the combination of a two-diameter cylinder comprising a working-cylinder having an exhaust port, and a compression-cylinder which is co-axial with the working-cylinder and has an admission port, a duplex piston comprising a working-piston movable in the said working-cylinder and a compression-piston movable in the said compression-cylinder, the wall of the working-cylinder being provided with a fuel-supply duct whereof its supply end opens into the end of the working-cylinder adjacent to the compression-cylinder and is normally closed by the said working-piston, and whereof its delivery end opens through an inlet port into the end of the working-cylinder remote from the compression-cylinder and a valve arranged to control the delivery end of said duct, the trunk of said working-piston being provided with a cavity so arranged as to periodically establish communication between the supply end of the said duct and the compression-cylinder when the duplex piston is reciprocated, the said inlet port and the exhaust port of the working-cylinder being located on opposite sides of the working-cylinder and so situated in the axial direction thereof that when the working-piston is near the end of its instroke, the said inlet port is covered by the working piston, but the exhaust port is never thus covered, for the purpose specified.

1,342,106. COLLAR-SUPPORT. LOUIS GRABIEC, Muskegon, Mich. Filed June 18, 1919. Serial No. 305,077. 1 Claim. (Cl. 2—63.)



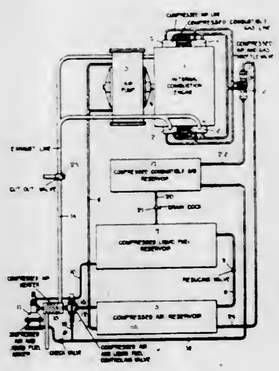
As a new article of manufacture, a metallic support strip suited to be received within the collar of a garment, and prongs on the upper and lower edges at the ends of said strip adapted to engage in the material of the garment whereby said support strip is held in operative position.

1,342,107. CARBURETER. VICTOR E. HAAS, Toledo, Ohio, assignor of one-half to Samuel E. Starr, Toledo, Ohio. Filed Apr. 10, 1918. Serial No. 227,691. 5 Claims. (Cl. 261—44.)



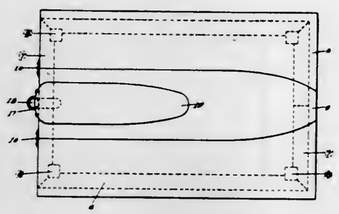
1. In a carbureter for an internal combustion engine, the carbureter having a main air intake passageway and an auxiliary air intake passageway, air valves for controlling the movement of the air through the passageways, the carbureter having a fuel passageway, a pair of fuel valves for controlling the movement of the fuel into the carbureter, one of the fuel valves operating to direct the fuel from the fuel passageway into one of the air passageways and onto the movable member of the main air valve when in one position and onto the auxiliary air valve when in another position and operated by the auxiliary air valve and the main valve.

1,342,108. INTERNAL-COMBUSTION ENGINE. PHILIP D. HIBNER, Seattle, Wash. Filed Apr. 10, 1919. Serial No. 288,950. 14 Claims. (Cl. 60—16.)



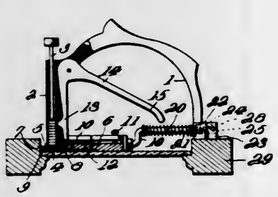
1. In combination, an internal combustion engine, a mixer and vaporizer, pressure means for forcing the air and liquid fuel therethrough and in the form of a compressed combustible gas to the engine and a valve controlled by the rise and fall of the combustible gas pressure for closing and opening the supply of air and liquid fuel to the mixer and vaporizer.

1,342,109. COMBINATION TABLE AND IRONING-BOARD. HERMAN HOEGLUND, Hawley, Minn. Filed Dec. 26, 1919. Serial No. 347,564. 2 Claims. (Cl. 68—10.)



1. A combination table and ironing board consisting of a frame composed of a plurality of sections and suitably supported on legs, hinge connections connecting adjoining of said sections at one end of said frame, means for securing together said sections at the opposite end of said frame, a table top supported on said frame, a portion of said top consisting of an ironing board fixed at one end to a portion of the end of said frame having said hinges.

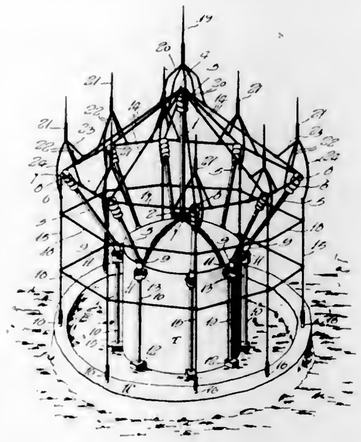
1,342,110. GLAZIER'S-POINT SETTER. JAMES RUDOLPH HOLY, La Crosse, Wis., assignor of one-half to Segelke & Kohlhaus Mfg. Co., La Crosse, Wis. Filed Dec. 20, 1919. Serial No. 346,281. 5 Claims. (Cl. 1—44.)



3. A glazier's point setter of the character described provided with a driver or striker sufficiently offset vertically between its ends to permit its rear portion to overlie and clear a stile and its striking end to rest flat on a pane of glass and provided also with a vertically movable block or support at the rear end to support the implement at all times in a horizontal position.

1,342,111. LIGHTNING-ARRESTER. CHARLES W. HOWE, Healdton, Okla. Filed Sept. 19, 1918. Serial No. 254,825. 1 Claim. (Cl. 173—31.)

In combination with a tank, a central pole rising from said tank and having an insulator on its upper end, the upper end of said insulator having crossed grooves, circumferentially spaced blocks vertically alined at the upper and lower ends of the tank wall and having vertical openings, vertical bars received in said openings and inclined upwardly and outwardly above the uppermost of said blocks, insulators on the upper ends of said bars and provided in their outer ends with crossed grooves, non-insulated wires having their centers received in the grooves of said first named insulator, said wires radiating and inclining downwardly to the other insulators, being received in certain grooves of the latter and then depending vertically, stakes anchoring and grounding said depending wire portions to the ground, circumferential, non insulated wires secured to said depending wire portions, an additional non-insulated wire extending circumferentially and received in the remaining grooves of the insulators of said vertical bars, lightning rods above these insulators, non-insulated branches depending and diverging from said lightning rods, said branches being secured to the inclined and vertical portions of said first named wires and to said additional circumferential wire, a central lightning rod disposed above said central pole, and additional non-insulated branches depending from said last named lightning rod and secured to the aforesaid inclined wire portions.

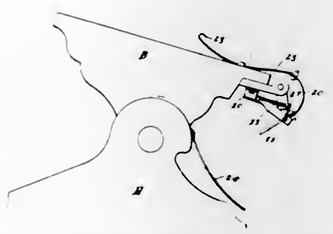


1,342,112. METHOD OF AND MEANS FOR HARDENING BODIES HAVING THE SHAPE OF SOLIDS OF REVOLUTION. AXEL GUSTAF EMANUEL HULTGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Mar. 15, 1919. Serial No. 282,822. 16 Claims. (Cl. 266—6.)



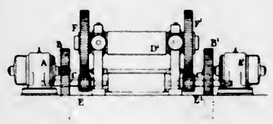
1. Method of hardening bodies having the shape of solids of revolution, consisting in causing the body to be hardened to touch a rotating member so as to cause said body to rotate, and then introducing the body, while rotating, into a hardening liquid.

1,342,113. SHEET-GUIDE FOR PRINTING-PRESSES. CHARLES FRANKLIN HUNEYCUTT, Charlotte, N. C., assignor of one-half to C. F. Bretholl, Charlotte, N. C. Filed Sept. 10, 1919. Serial No. 322,912. 14 Claims. (Cl. 101—414.)



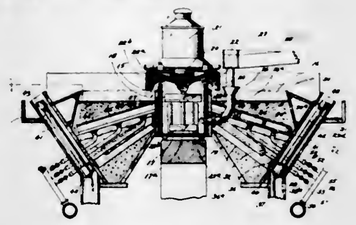
2. A sheet guide for printing presses, including a frame and an oscillating platen on said frame, consisting of a bracket secured to the under side of said platen and having extensions provided with bearings, an oscillating shaft having a crank on one end thereof mounted in said bearing, holders fixed to said shaft, movable guide fingers secured in said holders and extending over the platen and adapted to engage the sheets to simultaneously influence them to the surface of the platen and to draw them to proper position for impression, and a projection secured to said frame and adapted to be engaged with the crank on the downward movement of said platen to move said guide fingers and to withdraw them from the impression surface of said platen.

1,342,114. RUBBER MIXING, GRINDING, SHEETING, AND SIMILAR MILL. FREDERICK IDDON, Leyland, England. Filed Dec. 15, 1919. Serial No. 345,021. 4 Claims. (Cl. 18—2.)



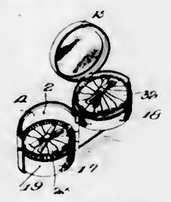
1. In a rubber mixing or similar mill the combination with the front and back rollers of independent variable sources of power, so that the speed ratio between the front rollers and the back rollers can be varied to any desired amount.

1,342,115. FLOTATION-MACHINE. THOMAS A. JANNEY, Garfield, Utah. Filed Jan. 27, 1916. Serial No. 74,561. 28 Claims. (Cl. 83—85.)



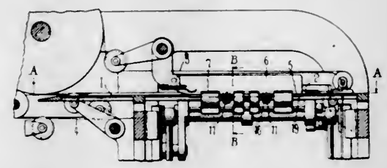
2. In a device of the class described, an agitation vessel for ore pulp contained therein, a separating box communicating with said vessel through upper and lower ports, agitating and impelling means in said vessel for agitating the ore pulp and for causing a circulation of said pulp from said vessel to said box through the upper port and back to the vessel through the lower port, and means for introducing air in a finely divided condition into the ore pulp in said separating box.

1,342,116. VANITY-CASE. WILLIAM G. KENDALL, Newark, N. J. Filed July 22, 1918. Serial No. 246,214. 1 Claim. (Cl. 206—37.)



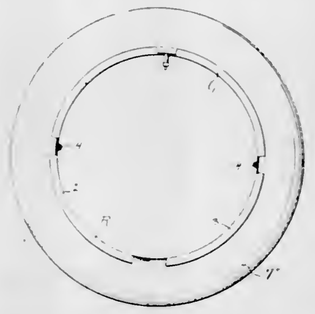
In an article of the class described, a casing comprising two substantially semi-cylindrical sections each having a bottom and each being open at its top, each section at the upper edge of its wall being provided with a rim, hinge connection between the walls at one side whereby when the sections are swung together the chordal edges of their bottom will meet and the ends of their rims will also meet, a tray secured within one section and resting upon the bottom thereof, a tray secured within the upper portion of the other section and arranged to lie above the first mentioned tray when the sections are closed, and a lid for closing the top of the casing hinged to the rim of one section and arranged in closed position to fit about the rims of the two sections.

1,342,117. ANTISMUTTING DEVICE FOR TRAVELING SHEETS. BERNARD D. KNOWLES, New York, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 6, 1915. Serial No. 60,074. 2 Claims. (Cl. 193—1.)



1. An antismutting device for traveling printed sheets including a rotary wheel having a peripheral split ring, a plurality of radial disks rotatably mounted on said ring and means for maintaining the split ring in position on the wheel.

1,342,118. DEMOUNTABLE RIM. WILLIAM SAMUEL KRAUSE, North La Junta, Colo. Filed Jan. 3, 1920. Serial No. 349,212. 2 Claims. (Cl. 152—21.)

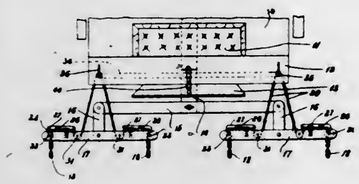


1. A tire rim comprising a plurality of hingedly connected sections, two of the sections having free ends adapted to abut when the rim is in working position, the free end portion of one of said sections being provided with a plurality of longitudinally spaced openings, said openings being arranged in series, a series of said openings being positioned at each side of the transverse center of the section.

1,342,119. DRAFT-DETACHING DEVICE. JOSEPH KUNCUS, Chicago, Ill. Filed July 23, 1919. Serial No. 312,745. 2 Claims. (Cl. 21—75.)

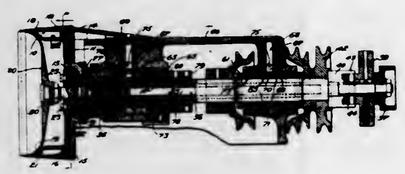
1. In a draft detaching device, the combination with a beam extending outwardly from the center of a vehicle, a cross beam pivoted thereon, links engaged in the ends of said cross beam, whiffle trees pivoted to the forwardly extending ends of said links, slotted disks carried in the ends of said whiffle trees, certain of said slots being ar-

ranged to receive the draft traces, lever detents pivotally mounted at the rear of said whiffle trees, said detents being engageable in the other slots, pulleys rotatably mounted in said whiffle trees, a transverse bar movable longitudinally of the vehicle, pulleys carried in the ends of said trans-



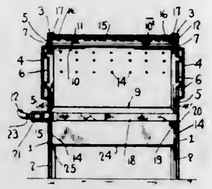
verse bar, cords extending from said levers over said pulleys, and a central lever engaged with said transverse bar whereby all of said cords are drawn simultaneously and said detent removed from said disk allowing the traces to become free.

1,342,120. SKIVING-MACHINE. ALBERT LATHAM, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 12, 1918. Serial No. 216,735. 9 Claims. (Cl. 69—9.5.)



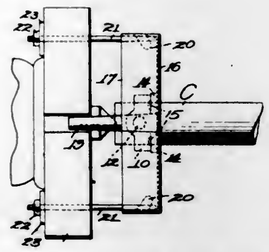
1. A skiving machine comprising a hollow knife shaft, a holder secured to one end of the shaft, a knife blade, and means for clamping the blade to the holder including a clamping disk, a stem secured to the disk and projecting into the front end of the knife shaft, an operating rod threadedly connected to the stem and projecting through the knife shaft to the rear end, means for rotating the knife shaft, and an actuating member secured to the rear end of the rod for rotating the latter.

1,342,121. GAS-HEATER. LOUIS LERAY, Pittsburgh, Pa. Filed Aug. 19, 1919. Serial No. 318,600. 4 Claims. (Cl. 126—85.)



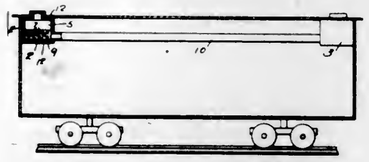
1. A heater of the class described, comprising end members, a hollow perforated radiator member supported by the end members, a combined perforated guard and casing member supported on said end members around and in spaced relation to said radiating member, a burner arranged in said casing member below said radiating member, and apertured extensions extending outwardly from said end members and connecting said radiating member.

1,342,122. LATHE-DOG. ROBERT W. LOFSTROM, Worcester, Mass. Filed Sept. 10, 1919. Serial No. 322,805. 5 Claims. (Cl. 82—41.)



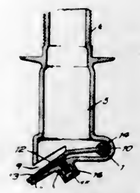
1. As an article of manufacture, a lathe dog having a passage for the work, an integral tail, and flat external flanges on both sides of said passage in a plane, and provided with a sheet metal guard plate riveted to said dog through said flanges, said plate being provided with a flat outer surface on one side of the dog, and having a passage therethrough registering with said passage in the dog, but otherwise imperforate, and having an integral cylindrical flange inclosing said dog and extending beyond it and located outside the tail to protect it.

1,342,123. APPARATUS AND PROCESS FOR COOLING VEHICLES. CHARLES W. MCCOY, Sprague, Wash. Filed Oct. 30, 1916. Serial No. 128,613. 6 Claims. (Cl. 62—171.)



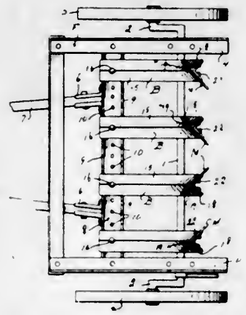
4. The process of regulating the temperature of an apartment which consists in providing a reserve of salt, ice, and brine located in the apartment, the temperature of which is to be regulated, and rendering this reserve substantially inoperative so far as regulating the temperature of the apartment is concerned, while it is held in reserve, and then withdrawing cold brine from the reserve and utilizing this cold brine in liquid form to maintain the temperature of the apartment substantially at the temperature required.

1,342,124. FLUSHING-NOZZLE. JOHN MCNEIL, Cincinnati, Ohio, assignor to The John Douglas Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 29, 1917. Serial No. 158,177. 1 Claim. (Cl. 299—129.)



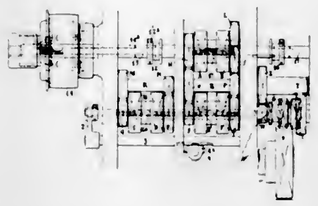
A flushing nozzle comprising a body having a bottom closing its lower end, a portion of the bottom being inclined downwardly with relation to the other portion and having a slot formed in the body above the bottom and inclined downwardly with the inclined portion of the bottom, a plate pivotally mounted upon the body and having a downwardly inclined portion extending into and beyond the slot and adapted to engage the inclined portion of the bottom, and a set screw mounted in and passing through the bottom and adapted to engage the plate to move the plate from the bottom to the top of the slot to regulate the discharge of water therethrough.

1,342,125. AGRICULTURAL IMPLEMENT. JOHN B. MACKEY, Hop Bottom, Pa. Filed Jan. 22, 1920. Serial No. 353,244. 3 Claims. (Cl. 97—34.)



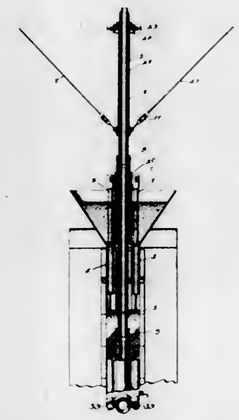
1. An agricultural implement of the class described comprising a portable body, a leg carried thereby and depending therefrom, the end portion of the leg remote from the frame being substantially V-shape in cross section, an outstanding plate carried by one side member of the leg, a ground working member pivotally engaged with said plate and extending across the second said member of the leg, and means coacting with the plate and the leg for holding the ground working member against swinging movement, said ground working member being substantially flat with its flat faces vertically disposed.

1,342,126. INTERCONNECTED CLUTCH AND GEAR-SHIFT FOR LATHES AND OTHER MACHINE-TOOLS. JOSEPH MACNAB and GEORGE HARRY SMITH, Bredbury, near Stockport, England. Filed Nov. 20, 1918. Serial No. 263,290. 2 Claims. (Cl. 74—59.)



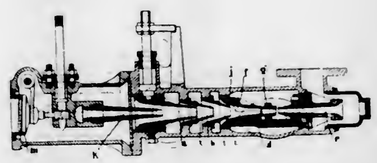
1. In an interconnected clutch and gear shift, the combination comprising a driving shaft, a pulley thereon, a clutch to connect the pulley to the shaft, a driven gear (V), slidable gears adapted to mesh with the gear V, transmission means between the shaft and slidable gears, means for sliding said gears, means for controlling said clutch and interconnecting means between the gear sliding and clutch controlling means, as set forth.

1,342,127. METHOD OF AND APPARATUS FOR CASTING HOLLOW BARS OR TUBES. GRENVILLE MELLEN, Cranford, N. J. Filed May 14, 1919. Serial No. 297,120. 12 Claims. (Cl. 22—76.)



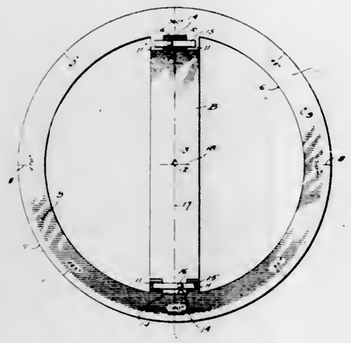
1. The method of casting tubes which consists in locating a core within a mold chamber formed by a series of traveling, cooperating mold-sections, and delivering molten metal into said chamber about said core during the movement of the mold section and the core located therein.

1,342,128. INJECTOR. JAMES METCALFE and JAMES CROXON METCALFE, Marple, and RICHARD DAVID METCALFE, Romiley, England. Filed Nov. 6, 1919. Serial No. 336,173. 1 Claim. (Cl. 162—1.)



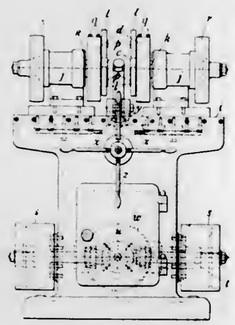
An improved exhaust injector comprising a main exhaust steam nozzle, a water cone or preliminary mixing nozzle into which water issues with the exhaust steam from the main nozzle, and around the delivery end of which a supplementary exhaust steam jet issues, a combining nozzle, a delivery nozzle, a further preliminary mixing nozzle between the water cone and the combining nozzle, and a compartment communicating with the gap between said further nozzle and the combining nozzle in which a high degree of vacuum is created and maintained by the jet traveling into the combining nozzle, as set forth.

1,342,129. DRAWING-PROTRACTOR. EDWARD L. MICHEAU, Baltimore, Md. Filed Apr. 20, 1916, Serial No. 92,490. Renewed Dec. 3, 1919. Serial No. 342,301. 6 Claims. (Cl. 33—1.)



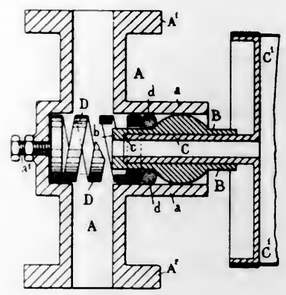
1. A protractor comprising in combination, an annular graduated plate provided with two pairs of inwardly extending lugs, and a templet of a size to fit flush with said plate and with its end portions between the said lugs.

1,342,130. TURNBUCKLE AND THE LIKE. WILLIAM JAMES MYATT, Birmingham, England. Filed July 8, 1919. Serial No. 309,333. 3 Claims. (Cl. 80—40.)



3. Means for reducing the external diameter and thickening the ends of tubular articles, comprising a pair of slidable headstocks, a right and left hand screw for producing opposite relative movements of the headstocks, a bed supporting said headstocks, means for rotating the screw, a spindle in each headstock, a disk secured to one end of said spindle, working and supporting rolls on one face of the disk, a clamp between the headstocks, a driving belt pulley on each spindle, complementary driving pulleys, shafts for the latter, a common driving shaft, and gear wheels transmitting opposite rotational movements from the common shaft to the shafts carrying said complementary driving pulleys, substantially as described.

1,342,131. BEARING FOR THE CYLINDERS OF DRYING-MACHINES. WILLIAM MYCOCK, Manchester, England. Filed Apr. 15, 1919. Serial No. 290,286. 2 Claims. (Cl. 286—7.)



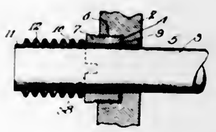
1. In a doll-head or bearing for the cylinders of drying machines a bearing sleeve or bush of spherical external contour formed with a shoulder on the interior against which an abutment surface on the trunnion abuts to form a steam tight joint substantially as described.

1,342,132. HAT. CAROLINE A. PETERS, Los Angeles, Calif. Filed Apr. 28, 1919. Serial No. 293,194. 1 Claim. (Cl. 2—108.)



A hat construction, comprising an annular brim member formed of outer and inner strips of a flexible fabric, a stiffening means interposed between said fabric strips, a hat band member formed of two strips of fabric having a stiffening means mounted therebetween, its ends being detachably secured together, said hat band member being detachably secured to said brim member, said hat band member adapted to constitute a form for the hat crown piece, and a flat flexible fabric crown piece detachably secured to the hat band member.

1,342,133. EXPANSION CONNECTION. FREDERICK SARGENT, Chicago, Ill. Filed Oct. 20, 1914. Serial No. 867,628. Renewed Sept. 22, 1917. Serial No. 192,827. 5 Claims. (Cl. 285—25.)

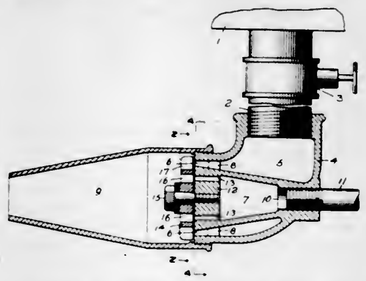


1. In a device of the kind described, a plate having a shouldered opening, and a tube extending into said opening, in combination with a longitudinally flexible member having one end permanently attached to said tube adjacent the end thereof and substantially constituting a unitary structure, said member having its other end extended into said opening, and means for connecting said last mentioned end of said member to the wall of said opening to form a fluid tight joint between said plate and tube.

1,342,134. DYESTUFFS CAPABLE OF BEING DIAZOTIZED AND PROCESS OF MAKING SAME. ARNOLD SCHEDLER, Manchester, England, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Dec. 27, 1919. Serial No. 347,834. 4 Claims. (Cl. 8—1.)

1. The herein described process for the manufacture of dyestuffs able to be diazotized consisting in diazotizing a 3,3'-diaminodiarylmethane and combining one molecule of the resulting tetrazoderivative in an alkaline medium with 2 molecules of 2-amino-5-oxynaphthalene-7-sulfonic compounds containing a free further diazotizable amino group.

1,342,135. PULVERIZED-FUEL FEEDER. LAWRENCE S. SCHMIDT, Pittsburgh, Pa. Filed May 11, 1917. Serial No. 167,897. 8 Claims. (Cl. 110—105.)



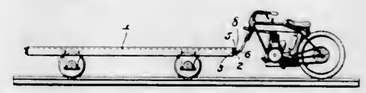
1. In means for feeding pulverized fuel, the combination with a source of fuel supply, a casing having a closure provided with a fuel outlet passage, a nozzle in advance of the closure, an air supply pipe in communication with the nozzle, a rotor member disposed in advance of and adjacent the closure, said rotor member having impeller means for creating a vacuum to exert a suction upon the fuel within the casing.

1,342,136. CLARINET-HOLDER. JOSEPH EDWARD SMITH, Buffalo, N. Y. Filed June 19, 1919. Serial No. 305,339. 7 Claims. (Cl. 248—30.)



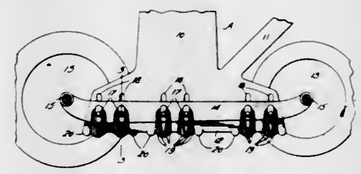
1. A device of the character described including a body member, means on said member for attachment to a support, an instrument supporting arm pivoted to said member, said arm being bent to form a resilient instrument engaging loop, said body having a vertical slot in one side of its upper end, said loop having its end foldable against the arm, said arm being foldable upwardly into parallel relation with said member, the end of the resilient loop and the arm being receivable in said slot, and means for holding the arms in horizontal or extended position.

1,342,137. COMBINATION RAILWAY-CAR AND UNICYCLE AND COUPLING MEANS THEREFOR. SYLVESTER N. STEWART, Dayton, Ohio. Filed Oct. 1, 1919. Serial No. 327,823. 12 Claims. (Cl. 105—95.)



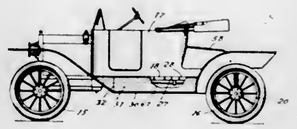
1. In combination with a railway car, a unicycle having its frame attached at its front end thereto and having its single wheel supported in relation to the point of attachment so as to run upon the track, substantially as described.

1,342,138. LANDING-GEAR FOR FLYING-MACHINES. MAXIMILLIAN F. STUPAR, Buffalo, N. Y., assignor to Abraham J. Ellas, Buffalo, N. Y. Filed July 30, 1919. Serial No. 314,294. 4 Claims. (Cl. 244—2.)



1. A landing gear for flying machines, comprising a frame having a narrow base portion extending lengthwise of the machine, a wheel support extending lengthwise of said frame, ground wheels at the front and rear portions of said wheel support, cross rods extending from said wheel support through elongated slots in said frame, and elastic bands passing under said frame base and attached to said cross rods.

1,342,139. EXTENSIBLE AUTOMOBILE. JOSEPH L. WARE, Minneapolis, Minn. Filed Mar. 22, 1915. Serial No. 16,091. Renewed Mar. 22, 1920. Serial No. 367,888. 4 Claims. (Cl. 180—16.)

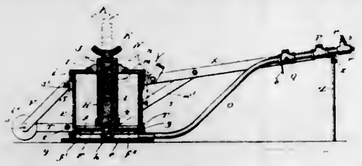


4. In combination with the running gear and driving means of an automobile, an extensible chassis frame comprising cleft side beams intermediate longitudinal bars secured to said cleft beams, and a crossbar secured to the sides of the frame when the chassis frame is extended, said crossbar having a circular apertured seat attached to the socket head for the torsion rod, and a shaft section connecting the driving means with the drive shaft of the automobile.

1,342,140. VEHICLE-JACK. WARREN B. WHITTON, Columbia, S. C. Filed Nov. 28, 1919. Serial No. 340,996. 3 Claims. (Cl. 138—9.)

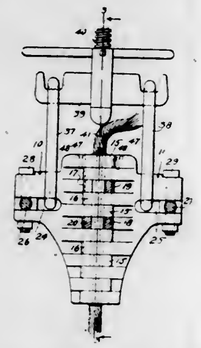
1. A vehicle jack, comprising a cylinder, means for admitting compressed air thereto, a piston operating in the cylinder and provided with means for connecting it with a part to be lifted, a supporting frame applied to the cylin-

der, wheels supported by said frame and normally held above the ground level of the bottom of the jack, a pipe



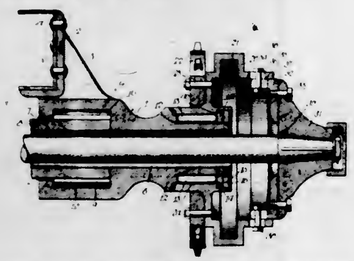
or hose for supplying fluid pressure to the cylinder, and a frame connected with the cylinder by which said pipe is supported.

1,342,141. CLAMP. WILSON B. WIGLE, Montebello, Calif. Filed June 28, 1919. Serial No. 307,406. 5 Claims. (Cl. 24—248.)



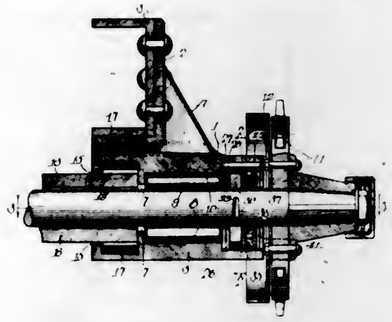
1. A clamp, comprising a pair of clamping members provided with clamping jaws at oppositely disposed ends, hinged together adjacent said ends, a threaded nut connected to each of the outwardly extending ends of said clamping members by pivoted links, a yoke provided with a threaded bore secured to said clamping member at said hinging point, the threads in said yoke bore being of opposite pitch from the threads in said nut bore, and a threaded stem adapted to coöperate with said yoke and nut bores, whereby said yoke and nut may be moved toward or away from each other.

1,342,142. DEVICE FOR AUTOMOBILE CONVERSION. HARRISON R. WILLIAMS, Chicago, Ill., assignor to Dearborn Truck Company. Filed Mar. 15, 1917. Serial No. 155,060. Renewed Oct. 22, 1919. Serial No. 332,573. 11 Claims. (Cl. 64—81.)



1. In a device of the class described, a frame, a hanger secured to the frame and having a tubular casing rigidly receiving the end of a shaft housing and provided with an external bearing, a driving shaft extended through said casing and provided with a hub irrevolubly attached thereto, and a driving casing journaled on the hanger casing and secured to said hub.

1,342,143. ADJUSTABLE SHAFT-HANGER FOR MOTOR-VEHICLES. HARRISON R. WILLIAMS, Chicago, Ill., assignor to Dearborn Truck Company. Filed Mar. 12, 1917, Serial No. 154,079. Renewed Oct. 22, 1919. Serial No. 332,574. 20 Claims. (Cl. 180—70.)



1. A jack shaft hanger comprising a casing, having a shaft opening therethrough, a bearing for a jack shaft in said opening, and means on the casing for securing a jack shaft housing to said casing.

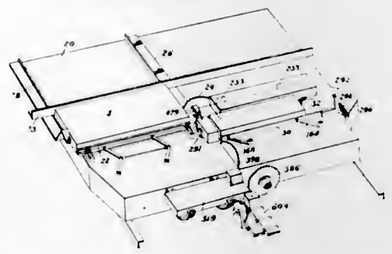
2. A jack shaft hanger comprising a casing having an opening to receive a shaft and the end of a shaft housing, a journal bearing in the casing, and adjustable devices on the casing for securing shaft housings of various designs rigidly thereto.

3. A jack shaft hanger comprising a casing having a shaft opening therethrough, said opening being enlarged at its inner end to receive the end of a shaft housing and clamping blocks therefor, clamping blocks in said enlarged parts, and means for closing said blocks on the shaft housing.

4. The combination with a frame, of a shaft hanger enlarged at its inner end and provided with an annular groove adjacent thereto, and further provided with journal bearings for a shaft, a shaft journaled in the said bearings, a shaft housing having one end in the enlarged inner end of the shaft hanger, adjusting blocks in said annular groove, and means for clamping said adjusting blocks upon the end of the shaft housing.

5. The combination with a frame, of a shaft hanger enlarged at its inner end and provided with an annular groove adjacent thereto, of journal bearings on the hanger, a shaft journaled therein, a shaft housing having one end in the enlarged inner end of the shaft hanger, adjusting blocks in said annular groove, and set screws in the hanger casing for adjustably clamping said adjusting blocks upon the end of the shaft housing.

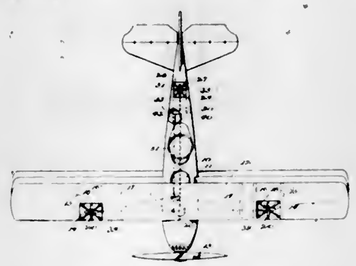
1,342,144. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept 12, 1918. Serial No. 253,716. 26 Claims. (Cl. 144—245.)



1. A stock cutting machine, having, in combination, stock cutting means, means to feed stock into position to

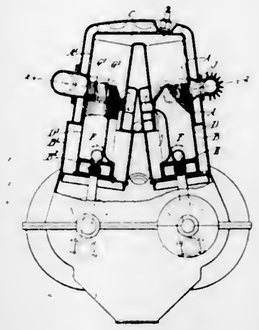
be operated upon by the cutting means, mechanism for supplying stock to the feeding means, a feeler mounted to operate in the path of the feed of the stock to detect the end of the stock and anticipate its exhaustion, and connections between the feeler and the supplying mechanism by which the operation of the supplying mechanism will be delayed to a later cycle of operation than that in which the end of the stock is detected.

1,342,145. STARTING AND LANDING MECHANISM FOR AEROPLANES. JOHN H. AKIN, Ames, Iowa, assignor of one-half to James E. Adamson, Ames, Iowa. Filed June 26, 1919. Serial No. 306,880. 4 Claims. (Cl. 244—15.)



1. In an aeroplane, the combination of a lifting propeller upon a wing of the aeroplane, a lifting propeller upon the tail of the aeroplane, means for coupling said propellers with the aeroplane engine to be driven thereby, and means for varying the speed of rotation of said propellers.

1,342,146. INTERNAL-COMBUSTION ENGINE. CHARLES HENRY THOMAS ALSTON, Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Filed Mar. 6, 1918. Serial No. 220,865. 4 Claims. (Cl. 123—45.)



1. In a two stroke cycle internal combustion engine the combination of cylinders set together in pairs, a combustion chamber common to both elements of each pair of cylinders; an admission belt and an exhaust belt around the two cylinders communicating with the working chambers of said cylinders through sets of inlet and exhaust ports in their respective walls; a pump chamber in each cylinder acted upon by the back of the piston, the pump chamber of the cylinder with the exhaust ports compressing air only and the pump chamber of the cylinder with the inlet ports compressing mixture; a gudgeon pin for each piston; bearings for said gudgeon pin; a piston axially rotatable on said bearings but adapted to reciprocate therewith; a connecting rod on said gudgeon pin; an extension on the connecting rod; and connections between the extension and the piston whereby the latter executes a combined turning and reciprocating motion whereby ports in the piston coöperate with the cylinder ports.

1,342,147. STEAMING-FORM FOR MILLINERS. MATTIE L. ARGO, Minneapolis, Minn. Filed June 27, 1919. Serial No. 307,152. 3 Claims. (Cl. 223—21.)



3. A steaming form for milliners comprising a non-rustable wire mesh, outer and inner layers of fabric netting in close relation to said wire mesh, and a binding securing the lower edges of said fabric netting to the lower edge of said wire mesh.

1,342,148. ALKALI-PACKAGE. JOHN ARMSTRONG, London, England, assignor of one-half to Patent Corporation Limited, Liverpool, England. Filed Apr. 18, 1918. Serial No. 229,376. 2 Claims. (Cl. 23—11.)

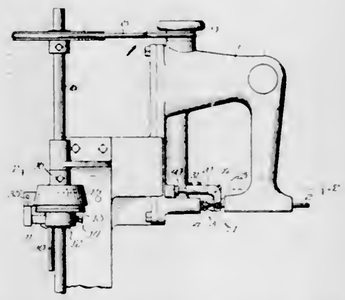
2. As a new article of manufacture a desiccated alkaline earth and desiccated alkali-metal carbonate each made up in chemically equivalent proportions to form when mixed with water alkaline earth carbonate and caustic alkali solution.

1,342,149. PULL-STRAP FOR LACED SHOES. WILLIAM H. AVIS, Hamden, Conn. Filed Jan. 7, 1920. Serial No. 349,952. 1 Claim. (Cl. 36—56.)



The combination with a pull-strap for laced shoes, of a strip secured at its lower end and sides to the said strap, whereby a pocket is formed between them; and means for detachably connecting the upper end of the strip with the said strap.

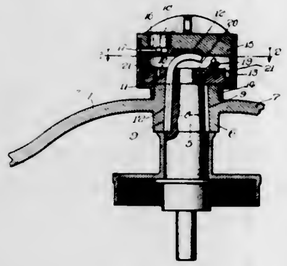
1,342,150. THREAD-CUTTER FOR BAG-SEWING MACHINES. JULIUS O. BAKKE, Minneapolis, Minn., assignor to Washburn-Crosby Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 5, 1915. Serial No. 43,740. 31 Claims. (Cl. 112—252.)



1. A thread cutter of the class described, comprising a plurality of cutters mounted for relative movement, an

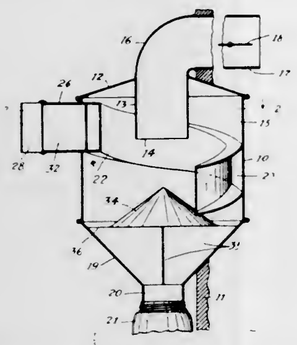
element arranged in juxtaposition to said cutters and provided with a slot into which the cutters are introduced and which coöperates with said cutters to effect the cutting operation, and means for establishing relative movement between said cutters and said element whereby to introduce the cutters to and remove the same from said slot.

1,342,151. AUTOMOBILE-LOCK. JOSEPH H. BAST, Chicago, Ill. Filed Sept. 26, 1919. Serial No. 326,594. 6 Claims. (Cl. 70—129.)



1. In an automobile lock of the character described, the combination with a steering post, and a steering wheel revolubly mounted on said post, of removable means serving to key said wheel to said post, and a lock-controlled housing surrounding the upper end of said post and inclosing said removable means.

1,342,152. AIR-CLEANING VENTILATOR. ASHLEY C. BENNETT, Minneapolis, Minn. Filed Sept. 4, 1917. Serial No. 189,448. 3 Claims. (Cl. 98—22.)



3. In combination with a car and the wall thereof, a cylindrical casing secured to said wall, a pipe leading from the central portion of the top of said casing through the wall into the interior of the car, means carried by said casing for causing currents of air to travel into the same by reason of the movement of the car through the air, a trough like member extending spirally within the inclosure formed by said casing to form an inclosed spiral passageway for conducting air from said means to the bottom part of said casing, and means at the bottom of said casing for providing a dead air space for the reception of dust which passes with the air through said inclosed spiral passageway.

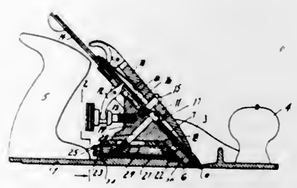
1,342,153. LADDER. HARRY C. BISSELL and JAMES G. CHASE, Tacoma, Wash. Filed June 12, 1919. Serial No. 303,533. 2 Claims. (Cl. 228—23.)

1. A ladder comprising a lower section consisting of stiles and rungs, opposed studs extending inwardly from said stiles near their upper ends, blocks secured to the inner sides of said stiles below said studs, an upper ladder section foldable downwardly between the stiles of said lower section and movable also to an inclined position to form a bracing leg for said lower section, said upper section consisting of stiles and rungs, and elongated plates secured to the outer sides of said last named stiles and



having T slots whose heads receive said studs and whose lateral openings permit disconnection of the two ladder sections, the ends of said plates engaging said blocks to normally prevent pivotal movement of said ladder sections until after relative sliding of said sections to disengage said plates and blocks.

1,342,154. PLANE. WILLIAM C. BOWLEN, Holyoke, Mass. Filed Jan. 13, 1920. Serial No. 351,145. 10 Claims. (Cl. 145—15.)

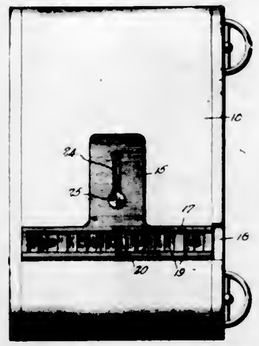


1. In a plane, a frame provided with a saddle, an adjuster slidingly arranged in said saddle, means to advance and retract said adjuster, a frog mounted on said saddle and rigidly attached to said adjuster, said frog being adapted to have attached thereto the customary slotted blade and blade members, and a binder for said adjuster, said binder being accessible through the slots in said blade and blade members.

1,342,155. AUTOGRAPHIC ATTACHMENT FOR CAMERAS. MALCOLM BOYD BOYCE, Haverhill, Mass. Filed May 14, 1919. Serial No. 297,019. 3 Claims. (Cl. 95—1.1.)

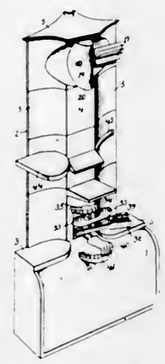
1. The combination with a camera slotted at its rear and having a recess at one side of its slot, of a frame secured to the said rear of the camera and having a transversely extending rack open at one end opposite the said recess, a series of letter and numeral blocks movable in

guided relation into the open end of the rack and having rabbeted overlapping side edges, and a shutter shiftable



beneath the frame to and from a position beneath the rack and having manual controlling means projecting exteriorly through the frame.

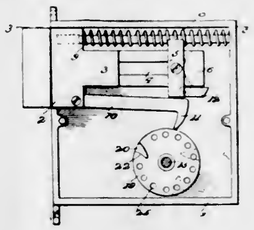
1,342,156. DENTAL EDUCATIONAL DEVICE. ROBERT O. BRITTAIN, Boston, Mass. Filed Feb. 8, 1919. Serial No. 275,845. 6 Claims. (Cl. 40—28.)



1. An educational dental exhibit comprising a hollow base and a hollow standard rising therefrom, a motor located in said base, a shaft rising from the floor of the base up within the standard, display movable members supported by the exterior of the standard, and means connected with said shaft for moving said members, said shaft passing almost in contact with the end of said motor near its armature shaft, said shaft and armature shaft being operatively connected by means consisting of a vertical counter-shaft driven by the armature shaft, and a pair of spur gears mounted on the counter-shaft and the first-named shaft respectively, out of interference with the motor, whereby the first-named shaft can rise in the center of the standard and the motor be disposed to permit a base of minimum dimensions.

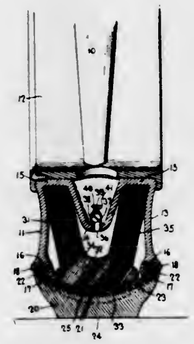
1,342,157. LOCK. ROY E. BROWN, Portland, Oreg., Assignor of one-third to George A. Albright, Portland, Oreg. Filed July 31, 1919. Serial No. 314,491. 3 Claims. (Cl. 70—53.)

1. In a lock, the combination of a bolt, means for holding the bolt normally projected, a hook pivoted to the bolt, a plurality of tumblers disposed below the hook, means for setting the tumblers to engage the hook and retract the bolt, and a latch pivotally mounted between the bolt



and the free end of the hook to bear upon the hook and hold the same in engagement with the tumblers with the bolt retracted.

1,342,158. RESILIENT TIRE. VERNON L. BUCHMAN, Millers, Md. Filed June 20, 1917, Serial No. 175,944. Renewed Oct. 22, 1919. Serial No. 332,577. 9 Claims. (Cl. 152—5.)



2. In a rim and tire construction, a rim having side wall portions providing an annular chamber, a casing having its side edges lockingly engaging the edges of the side walls of the rim, and a resilient core disposed between the rim and casing, the core including a thrust portion engaging the inner face of the casing and inwardly diverging annular portions engaging at their inner edges against the face of the rim at the juncture of such face and the side walls of the rim, the thrust portion being of relatively great resiliency, the outer parts of the side portions of less resiliency and the inner parts of the side portions of still less resiliency.

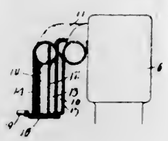
3. In a rim and tire construction, a rim including a base portion and radially extending side wall portions, a casing having beads lockingly engaged by the edges of the side walls of the rim, a core disposed within the casing and including an intermediate portion engaging the casing and diverging side portions engaging the rim at their inner edges, and means for supplying air to the space between the rim and side portions of the core, said means operating only when the rim is revolving at a predetermined speed.

5. In a rim and tire construction, a rim having side walls, the edges of which are formed with circumferential grooves providing inner and outer bead retaining flanges, a tire casing having beads including sectional resilient clamping elements, turn-buckle connections between adjacent ends of the clamping element sections whereby the beads may be drawn into the grooves or released therefrom, and means preventing circumferential movement of the clamping elements.

8. A rim and tire construction including a rim having side walls and an intermediate outstruck portion, a casing secured at its edges to the edges of the side walls, and a

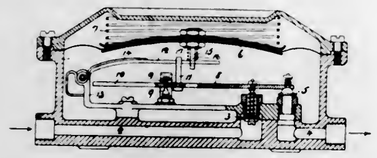
resilient core substantially U-shaped in cross section disposed between the casing and rim with its intermediate portion engaging the casing and its edge portions engaging the rim between the side walls and outstruck intermediate portion thereof.

1,342,159. INTAKE-MANIFOLD. DONALD K. CHAMPAIGN, Ithaca, N. Y. Filed Oct. 30, 1918. Serial No. 260,285. 3 Claims. (Cl. 123—122.)



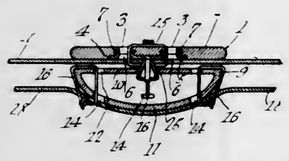
1. An intake manifold embodying a hot conduit and a cold conduit and means to open communication, first through the hot conduit and progressively through the cold conduit.

1,342,160. APPARATUS FOR AUTOMATICALLY OPENING AND CLOSING GAS-CONDUITS. GUSTAF DALÉN, Lidingön, Stockholm, Sweden. Filed May 21, 1918. Serial No. 235,910. 4 Claims. (Cl. 67—111.)



2. In an apparatus for automatically opening and closing a gas conduit, a diaphragm casing, an inlet and an outlet valve, alternatively operating under the control of the diaphragm, a rocking member, connected with the diaphragm and with the valves, and an inlet conduit, into which the said inlet valve opens, the outlet valve opening into the diaphragm casing.

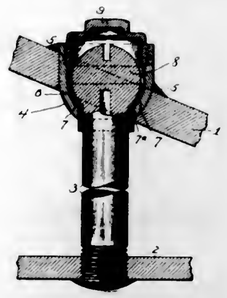
1,342,161. BUTTON-CLASP. ESTHER B. FINK, Charleston, W. Va. Filed Mar. 23, 1920. Serial No. 368,091. 3 Claims. (Cl. 24—214.)



1. In a device of the class described, a main member comprising a body; a back plate provided with a resilient stud, the back plate being secured to the body, the body and the back plate having coöperating thread-receiving openings; and an auxiliary member having an aperture receiving the stud.

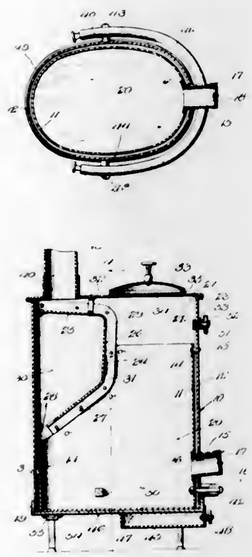
1,342,162. STAYBOLT. JOHN ROGERS FLANNERY and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed July 29, 1919. Serial No. 314,084. 3 Claims. (Cl. 85—1.5.)

3. In a staybolt structure, the combination of inner and outer sheets of a boiler, a sleeve secured to the outer sheet and having a curved seat, a flexible stay bolt the head of which is mounted in the sleeve, a destructible



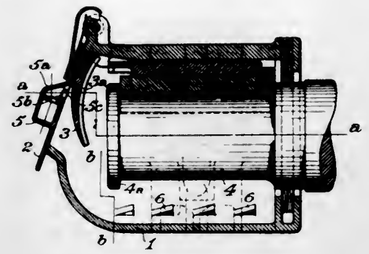
spacing member between the said head and neck of the bolt and the lower opening in the sleeve, and a screw cap for closing the outer end of the sleeve.

1,342,163. STOVE. JOHN FLINT, Newport News, Va. Filed Sept. 20, 1919. Serial No. 325,052. 2 Claims. (Cl. 126—65.)



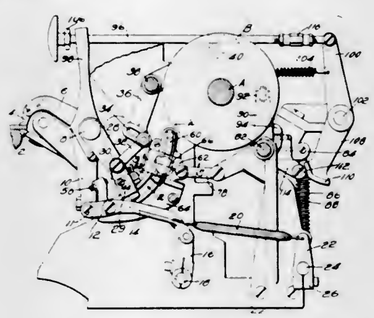
1. A stove including a casing having a combustion chamber, a baffle plate arranged within the rear portion of the casing and forming a chamber at one side of the combustion chamber, the lower end of said baffle plate being arranged in proximity to the rear side of the casing for forming a restricted entrance opening to said second named chamber from said combustion chamber, the upper portion of said baffle plate being provided with exhaust openings establishing communication between the upper portion of said combustion chamber and the upper portion of said second named chamber.

1,342,164. JOURNAL-BOX. WILLIAM H. FOSTER, Bayside, N. Y. Filed Oct. 22, 1919. Serial No. 332,383. 5 Claims. (Cl. 64—23.)



2. The combination of a journal box having an opening in its outer end; a lid, normally closing said opening; an inwardly and downwardly projecting deflector plate, fixed on the inner side of said lid; and lateral flanges, projecting upwardly from said deflecting plate.

1,342,165. SEWING-MACHINE. WALTER J. GLIDDEN, Southboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 20, 1918. Serial No. 240,961. 15 Claims. (Cl. 112—61.)



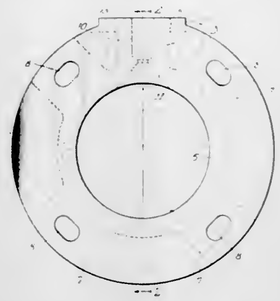
1. A sewing machine having, in combination, stitch-forming devices, a work support, a presser foot, mechanism for actuating the presser foot, comprising a presser foot lever, an arm extending therefrom, a pivoted lever, a clutch device carried by said lever and engaging said arm, and means for actuating said pivoted lever to raise the presser foot from the work.

1,342,166. COAT-HANGER. JOHN J. GOTTSCHALK, Taunton, Mass. Filed June 23, 1919. Serial No. 305,994. 3 Claims. (Cl. 2—53.)



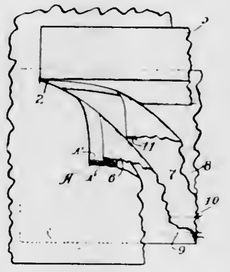
1. A coat hanger or like device comprising an endless loop and two fasteners therefor each having a relatively narrow transverse slot at one end into which the loop can be inserted and from which it can be removed only by turning the latter into edgewise position, said fasteners each having a relatively broad part to engage and position the loop when flatwise, said broad parts facing each other when in loop-supporting position.

1,342,167. CONVEYER-CONDUIT. LORNE A. GRIFFIN, Evanston, Ill., assignor to American Steam Conveyor Corporation, Chicago, Ill., a Corporation of New York. Filed Sept. 18, 1918. Serial No. 254,543. 8 Claims. (Cl. 261—118.)



1. The combination with a conduit section having a bolting flange at each end and a boss extending radially between said flanges, the wall of said section being provided with a conical inwardly opening bore, and said boss being provided with a bore opening into said first named bore at the apex thereof, of a spray nozzle for producing a conical spray positioned in the bore in said boss with its discharge end at substantially the apex of said conical bore, and means for holding said nozzle in said position comprising a cover plate for sealing the bore in said boss.

1,342,168. GARMENT-POCKET. JULIUS GUNDERSON, St. Paul, Minn., assignor to Bramwell-Ragen Corporation, St. Paul, Minn., a Corporation of Minnesota. Filed Aug. 30, 1917. Serial No. 188,958. 2 Claims. (Cl. 2—15.)

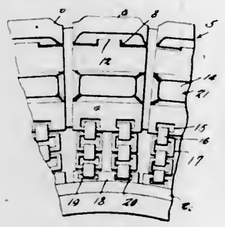


1. In combination with a garment formed with a horizontal pocket opening, a pocket comprising an inner and an outer wall together with an intermediate wall, the three walls being secured together along their lower edge and sides to form two open-top pockets, a supporting connection between the upper edge of the outer wall and the garment below the pocket opening, a supporting connection between the upper edge of the inner wall and the inner face of the garment above the pocket opening, and straps connecting the upper sides of the inner pocket wall with that part of the garment constituting the region below the arm-hole.

1,342,169. TIRE-COVER. EDWIN J. HERCHERT, Postville, Iowa. Filed Aug. 30, 1919. Serial No. 320,842. 1 Claim. (Cl. 152—16.)

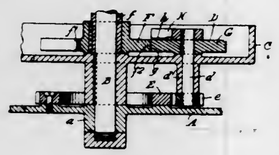
1. In combination with an automobile tire and the clencher rim thereof, a tire armor including a plurality of

spaced independent metallic sections each of the sections including a plurality of coöperating tread members and side members, each of the members having an enlargement formed on one of the surfaces thereof, said enlargements forming recesses on the under sides of the members, a shaped tongue formed in each member, flanges formed



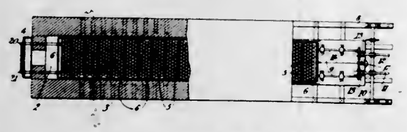
adjacent the respective recesses, said recesses adapted to accommodate the T-shaped tongues for securing the members together, said enlargements forming anti-skid means and a relatively long securing member engaging under the clencher rim, and a plurality of chain sections securing the side members to the securing member.

1,342,170. MECHANICAL MOVEMENT. HUGH G. HILL, Wheeling, W. Va., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Filed Mar. 5, 1919. Serial No. 280,688. 7 Claims. (Cl. 74—41.)



1. The combination of a rotary driving member, a star wheel pivoted concentrically with said driving member, and a planetary member mounted on said driving member and including a star lock member adapted to engage said star wheel to cause the same to move with said driving member through a part of a revolution, and an actuating member for causing said star wheel to be rotated in the reverse direction.

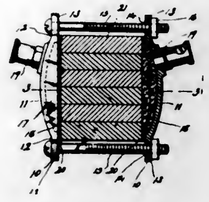
1,342,171. METHOD OF AND MEANS FOR HEATING BALLS. AXEL GUSTAF EMANUEL HULTGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 4, 1919. Serial No. 328,512. 15 Claims. (Cl. 266—5.)



1. The method of heating balls, consisting in rolling the balls arranged in a series of successive groups, spaced one from the other, through a heating medium.

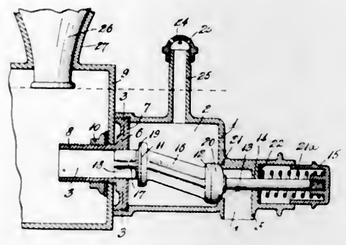
1,342,172. SPRING-LUBRICATOR. MICHAEL JARMIE, East Haven, Conn. Filed Nov. 19, 1919. Serial No. 339,221. 3 Claims. (Cl. 267—50.)

3. In a device of the character described, the combination with companion plates, of means for securing the same together upon opposite sides of a laminated spring; a pad of felt or similar material for each of said plates lying between the spring and plate and held so that the



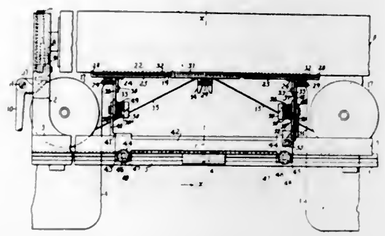
outer edges thereof are under pressure and the intermediate portion free from pressure; and means for supplying a lubricant to that portion of said pad that is free from pressure.

1,342,173. MEASURING-FAUCET. CHARLES T. JOSLIN, Cleveland, Ohio, assignor to The Russ Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 20, 1917. Serial No. 197,586. 3 Claims. (Cl. 221—95.)



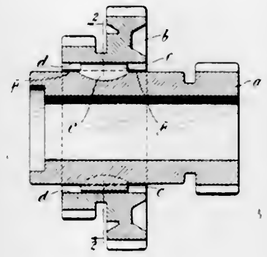
1. A measuring faucet, comprising a hollow casing provided at one side with a hollow shank for attachment to the side wall of a reservoir, a valve seat at the inner end of said shank, said casing having a discharge passage and valve seat at a lower level than said shank and out of the axis thereof, and a valve body movable within said hollow casing and having valve members coöperating with said seats.

1,342,174. TYPEWRITING-MACHINE. CHARLES S. LABOFISH, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Apr. 16, 1919. Serial No. 290,567. 14 Claims. (Cl. 197—135.)



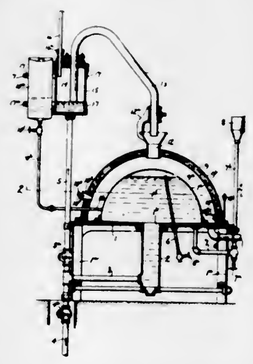
1. In combination with the platen carriage of a writing machine; a detachable card holding contrivance comprising a support, means for detachably securing said support to the carriage, a card or sheet holder, connections for movably connecting said holder with said support, and means for line spacing said card holder while the platen of the machine remains quiescent.

1,342,175. GEARING. AUGUST H. LEIPERT, Brooklyn, and ALEXANDER GRISWOLD HERRESHOFF, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 9, 1918. Serial No. 233,435. 2 Claims. (Cl. 74—58.)



1. A spline-gearing comprising a spline-shaft and a spline-gear in constant driving engagement therewith, the shaft having a spline shorter than the length of the gear and located between the ends thereof and having its diameter at each side of the spline reduced, and having also its surface at the end of the spline ground to a truly cylindrical form, and the gear having its internal surface ground to a truly cylindrical form to fit properly on the cylindrically ground surface of the shaft beyond the ends of the spline.

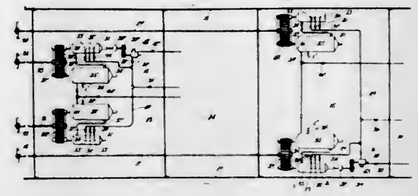
1,342,176. PUMP. JOHN LOFTUS, Albany, N. Y. Filed Dec. 5, 1919. Serial No. 342,743. 10 Claims. (Cl. 160—1.)



1. A steam and vacuum pump, comprising a liquid chamber provided with a supply and discharge head, a valved liquid supply pipe communicating with the latter, a valved discharge pipe terminating in a siphon chamber, a heating and cooling chamber surrounding said liquid chamber, a siphon intermittently discharging from said siphon chamber to said heating and cooling chamber, and means for heating said liquid chamber between the discharges from said siphon pipe.

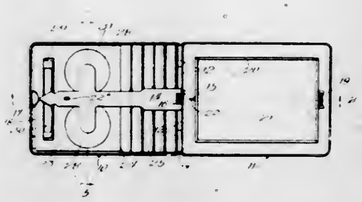
1,342,177. MARINE STEAM-TURBINE ARRANGEMENT. JOHN F. METTEN and JAMES C. SHAW, Philadelphia, Pa. Filed May 9, 1919. Serial No. 295,853. 15 Claims. (Cl. 60—70.)

1. In a marine turbine installation, four propeller shafts, two on each side, four respective main turbines for high speed operation, two extra turbines for cruising, each having a mechanical connection with a shaft on one side



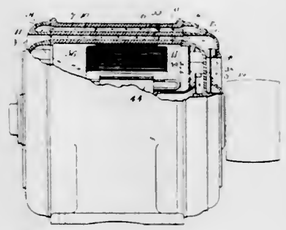
and an intermediate steam connection therefrom to a main turbine on the opposite side.

1,342,178. COMBINED CIGARETTE AND VANITY CASE. MELVILLE A. MILLER, Pittsfield, Ill., assignor to Brun-Mill Company, Pittsfield, Ill., a Corporation of Illinois. Filed Sept. 22, 1919. Serial No. 325,382. 2 Claims. (Cl. 132—32.)



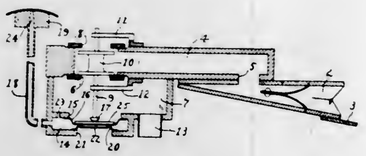
1. A case of the kind described, comprising, in combination, a pair of hinged covers having spring means tending normally to open them, a tongue swingingly secured between the covers and having spring means for pressing the tongue toward one of them, a mirror frame having a hinge connection adjacent the free end of the other cover against which it is adapted to lie, and means carried at the opposite end of the frame adapted to engage with the tongue for holding the frame extended outwardly with the mirror exposed for use, substantially as described.

1,342,179. COOLING ARRANGEMENT FOR DYNAMO-ELECTRIC MACHINES. PAUL ALPHONSE HUBERT MOSSAY and HENRY CHARLES EDWARD JACOBY, London, England. Filed Apr. 19, 1918. Serial No. 229,489. 10 Claims. (Cl. 171—252.)



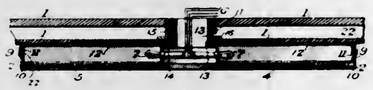
1. An inclosed dynamo electric machine having a magnet ring traversed by two series of separate channels, one series for the passage of the hot internal air of the machine and the other series for cooling fluid, and means for circulating the hot internal air of the machine and cooling fluid through the respective channels in said ring.

1,342,180. PNEUMATIC MECHANISM. JAMES O'CONNOR, New York, N. Y. Filed Aug. 23, 1917. Serial No. 187,772. 9 Claims. (Cl. 84—178.)



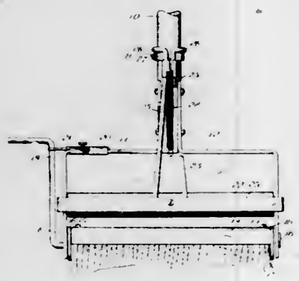
1. In a pneumatic mechanism the combination of a tracker having apertures therein, an actuating pneumatic, a double acting valve for alternately supplying air and tension to said pneumatic, primary means for actuating said valve to supply tension to said pneumatic, secondary means for assisting said primary means, alternately acting means including a single tracker aperture directly connected with said primary for at one time causing said primary and said secondary means to act together and at another time for neutralizing said primary means, and means for actuating said valve to supply air to said pneumatic against the resistance of said secondary means when said primary means is neutralized.

1,342,181. SIGNAL FOR AUTOS AND OTHER VEHICLES. JOHN O'DONNELL, Jr., Philadelphia, Pa., assignor of one-half to Louis H. Brown, Philadelphia, Pa. Filed Dec. 16, 1919. Serial No. 345,179. 5 Claims. (Cl. 40—132.)



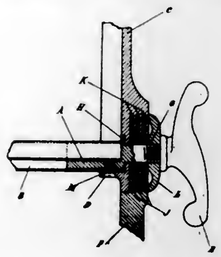
1. A vehicle signal for the purpose described, consisting of a divisional frame, transparent plates, and electric lights in each division of said frame, the back of said frame having an opening, a thimble in said opening and having a flange, a thimble telescopically receiving said first-named thimble and having a flange, said thimbles being secured together and adapted to be engaged with the rear wall of a vehicle body and the signal clamped against the outer wall thereof by said flanges.

1,342,182. MOP. SOREN F. PETERSEN, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,015. 4 Claims. (Cl. 15—43.)



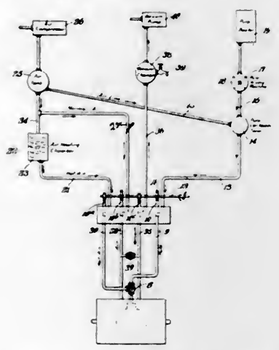
1. A mop comprising a bar rotatable about a longitudinal axis, a mopping member secured upon said bar and rotatable therewith, and a second bar non-rotatively mounted in spaced relation to said first-named bar adapted to press against said mopping member for wringing the water therefrom as said mopping member is rotated with said first-named bar.

1,342,183. WIND-SCREEN FOR USE ON CONVEYANCES AND LIKE PURPOSES. GEORGE HARDIMAN RANSOM, Birmingham, England. Filed Dec. 29, 1919. Serial No. 348,164. 1 Claim. (Cl. 296—92.)



A variable inclination wind screen for vehicles, having a framework of a screen grooved to receive the edges of a sheet of transparent medium and constructed of independent members, wherein the lower member of the framework is formed of a tube of crescent-shaped cross section, the inner curve of the crescent forming the groove for the lower edge of the sheet of transparent medium, and the ends of the tubes having tightly fitting therein rods of which the portions within the tubes are of the same section as the bore of the tube and the outer portions are of round section adapted to pass through holes formed in the sides of the framework so as to form the hinge about which the inclination of the screen can be varied, the said hinge being of the kind of which the engaging ends of the members fixed to the vehicle and those forming the side frame of the transparent medium are constructed as interfitting forks having prongs of disk shape perforated to receive the hinge pins and sufficiently thin that by means of nuts screwed to fit the projecting hinge pin ends of the said lower member of the frame they can be forced into frictional engagement so as to hold the frame securely in the desired angular position.

1,342,184. PROCESS OF PRODUCING MOLDED OBJECTS AND APPARATUS FOR USE IN CONNECTION THEREWITH. PHILIPP RAUER, New York, N. Y., assignor to Permolin Products Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 31, 1918. Serial No. 214,715. Renewed Oct. 20, 1919. Serial No. 332,075. 8 Claims. (Cl. 92—54.)



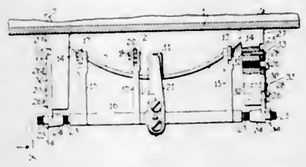
1. The process which comprises depositing a body of solid material from a fluid carrier upon the interior of a perforated molding wall while withdrawing the fluid carried through said wall by means of a vacuum until the desired thickness of the molded object has been obtained, then discontinuing the supply of molding materials and supplying instead a current of heated air, and then applying compressed air to the exterior of the molded object to remove the same from the mold.

1,342,185. METHOD OF AND MACHINE FOR HANDLING PLASTER-BOARD. ORVILLE L. ROUTT, GROVER C. MCCONNELL, and HERBERT L. GLAZE, Los Angeles, Calif., assignors, by direct and mesne assignments, to Plastoid Products, Inc., Los Angeles, Calif., a Corporation of California. Filed Apr. 17, 1919. Serial No. 291,971. 6 Claims. (Cl. 154—2.)



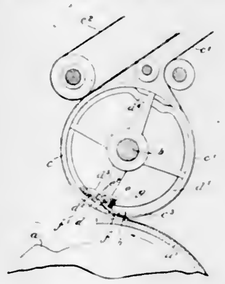
1. Means for handling plasterboard which consists of an inclined runway, carriers to receive said plasterboard adapted to move along said runway under the place of discharge of said plasterboard, said plasterboard holding said carriers to a movement corresponding to the feed speed of said plasterboard.

1,342,186. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Feb. 10, 1919. Serial No. 276,050. 10 Claims. (Cl. 197—97.)



1. In a typewriting machine, the combination with a universal bar and an oscillator connected thereto, of pivots for said oscillator, said pivots having each an independent sliding adjustment transversely of the pivotal axis of said oscillator to accommodate said pivots to the pivotal axis of the oscillator as determined by the correct position of the universal bar.

1,342,187. DELIVERY MECHANISM FOR PRINTING-MACHINES. AMOS H. SMITH, Brooklyn, N. Y., assignor to American Bank Note Company, New York, N. Y., a Corporation of New York. Filed Aug. 6, 1918. Serial No. 248,519. Renewed Apr. 23, 1920. Serial No. 376,175. 12 Claims. (Cl. 271—82.)



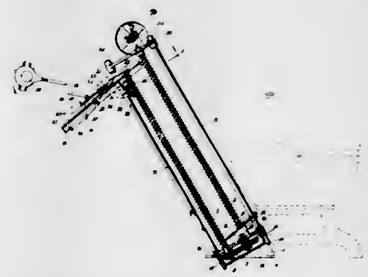
1. A delivery mechanism for printing machines, embodying therein a rotatable member having a plurality of gripping areas thereon associated with the plate cylinder, means actuating said member, a plurality of gripper fingers coöperating with said gripping areas respectively, said gripper fingers each embodying therein means whereby, with the actuation thereof, each finger will be yieldingly thrust into engagement with the printing plate, means adapted to impart a timely and simultaneous actuation to said fingers first into engagement with the plate, and then into engagement with said gripping areas, and subsequently away from said areas to insure the engagement and disengagement thereof with the paper and means varying the relative peripheral speed of said fingers and the plate while said fingers are in engagement therewith.

1,342,188. WOMAN'S UNION-SUIT. JACOB HOWARD STANLEY, Spring City, Pa. Filed May 15, 1918. Serial No. 234,615. 1 Claim. (Cl. 2—144.)



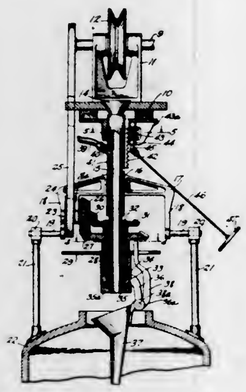
A woman's undergarment, formed of a body portion of tubular knitted fabric split at front and back in the middle for a short distance and the front and back edges so provided sewn together to provide the inner seams of the leg portions and crotch of the garment and also having the sides split longitudinally from the waist down to the bottom of the garment, and two leg and hip gusset portions of knitted fabric having tapered upper parts and respectively having their side edges sewn to the edges of the splits in the body portion, the seams so provided extending vertically at the front and back of the leg portions of the garment and uniting over the hip portions and the main lengths of the gusset portions folded vertically upon themselves to provide seamless sides to the garment to fit around the outer sides of the legs, and the upper ends curved inward to provide pocket shaped hip portions of great elasticity.

1,342,189. DISK-FEEDER. FLOYD D. STOWE, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, a Corporation of Delaware. Filed Feb. 26, 1914. Serial No. 821,231. 3 Claims. (Cl. 193—13.)



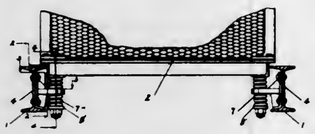
3. In a feeder, a plurality of inclined screws adapted to engage the members fed, the lower of said screws being shorter than the others whereby the members fed may fall away from the remaining screws, and a delivery chute adjacent said short screw.

1,342,190. PILING-MACHINE. CHARLES TAYLOR and BERTRAM H. SAUNDERS, Paterson, N. J. Filed Dec. 1, 1919. Serial No. 341,571. 11 Claims. (Cl. 8—19.)



1. A piling machine comprising a guide or distributing chute, means for rotating the chute and also imparting a movement in and out at a tangent to its circle of rotation, and means for delivering fabric to the chute.

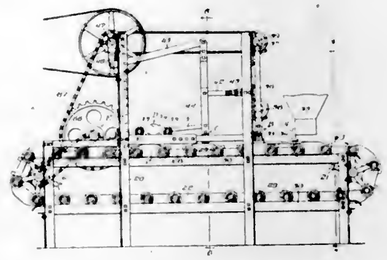
1,342,191. RADIATOR-MOUNTING FOR MOTOR-VEHICLES. GEORGE J. THOMAS, Lansing, Mich., assignor to Duplex Truck Company, Lansing, Mich. Filed Aug. 31, 1918, Serial No. 252,154. Renewed Dec. 15, 1919. Serial No. 345,123. 3 Claims. (Cl. 180—68.)



1. The combination with the longitudinal members of a motor vehicle chassis, of a radiator, rigid downwardly projecting bolts on said radiator having spring seats at their bases, inwardly projecting brackets on said chassis members provided with holes for said bolts, the diameter substantially exceeding that of the bolts permitting lateral movement of the bolts therein, said brackets having spring seats in the tops and bottoms thereof concentric with the bolt holes, castellated nuts on lower ends of said bolts, spring supporting plates carried by said nuts provided with spring seats, and springs arranged on said bolts above and below said brackets engaging said seats thereof and the seats at the bases of said bolts and in said supporting plates whereby the springs are laterally supported, both springs of each bolt being normally under tension.

1,342,192. APPARATUS FOR THE MOLDING OF PLASTIC MATERIALS. GUY R. TREVILLIAN, Cicero, Ill. Filed May 21, 1917, Serial No. 169,925. Renewed Sept. 24, 1919. Serial No. 325,990. 18 Claims. (Cl. 25—99.)

8. In an apparatus of the kind described employing palettes on which the material is contained and a plurality of mechanisms profiled to correspond with the configurations desired for the upper surface of the product each arranged to operate successively upon the material, a conveyer for advancing the material through positions to be successively operated upon by the said mechanisms, the conveyer including means for positively centering each palette in correct position relative to the mechanisms which operate upon the material and providing walls to abut against the ends of the palette to retain the material, each of the walls being profiled to substantially correspond with the profiles in the mechanisms operating upon the material, substantially as described.



11. An apparatus of the kind described including, in combination, a palette conveyer consisting of a plurality of wheeled carriages linked together to form an endless chain and suitably mounted for operation, each carriage being provided with a transverse wall adapted to lie against the end of a palette, and with a shelf extending laterally from the wall to afford support for the end of a palette, each of the link connections between the carriages being provided with transversely extending brackets adapted to afford support for a palette independent of that furnished by the shelves, substantially as described.

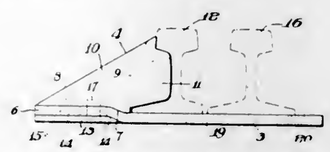
15. An apparatus of the kind described including, in combination, a palette conveyer consisting of a plurality of wheeled carriages linked together to form an endless chain and suitably mounted for operation, and mountings for the palettes upon the carriages and links arranged to support the palettes in position centrally between the carriages, substantially as described.

1,342,193. AIR-INLET DEVICE. VICTOR H. VAN SANT, Newark, N. J. Filed Sept. 23, 1919. Serial No. 325,688. 7 Claims. (Cl. 48—180.)



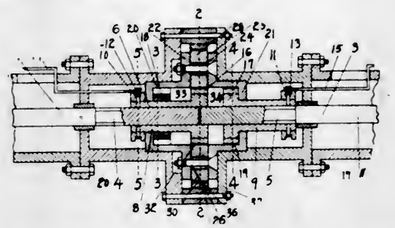
1. A device of the class described comprising a pipe for conducting fluid, an element in the pipe, said element being rotatable by fluid passing through the pipe, and means for yieldingly holding the element against rotation, said means including a valve to admit air to the pipe.

1,342,194. COMBINED TIE-PLATE AND RAIL-BRACE. DAVID F. VAUGHAN, Riverton, N. J. Filed Oct. 3, 1919. Serial No. 328,191. 6 Claims. (Cl. 238—292.)



1. In a device of the character described, a rolled steel tie plate having a rail brace cast upon the same and shrunk into locking engagement therewith.

1,342,195. CHANGE-SPEED MECHANISM. WILLIAM T. WALKER, Vinita, Okla. Filed July 14, 1919. Serial No. 310,605. 4 Claims. (Cl. 74—34.)



1. A change speed mechanism for power shafts, comprising two shaft sections alined end to end, the adjacent ends of said sections being squared off to interlock with and rotate the mechanism; two round shift links having squared sockets to slidingly engage the squared ends of said shaft sections, said shift-links having each an annular guide-way cut around its outer end; shift fingers slidingly engaging each of said guide-ways of said shift-links to control same; shift rods connected with and extended from said shift fingers, for shifting said shift-links back and forth upon the squared ends of said shaft sections; a pinion rigidly joined to the inner end of each shift link for transmitting power; a sleeve slidingly mounted over each shift-link and pinion, each sleeve having internal clutch teeth cut at its outer end to mesh with its respective pinion, and having a fixed flange at its inner end; four equally spaced stub-shafts rigidly connecting said adjacent flanges of said sleeves; four gears journaled one upon each stub-shaft, same being so proportioned to the pinions at the ends of the shift-links, that the pinions may be shifted into the intervening space between, and in mesh with said gears; a gear ring encircling said set of four gears and having an internal gear cut around its inner periphery adapted to mesh with the four gears; and a housing for the mechanism described, same being anchored to the said gear ring and to a side support to prevent the housing rotating.

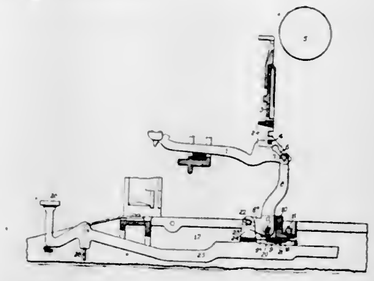
1,342,196. RAIL-FASTENER. JOHN WIECEK, Rewloc, Pa. Filed Nov. 11, 1919. Serial No. 337,305. 1 Claim. (Cl. 238—345.)



A device of the class described comprising, in combination with a track rail and a tie thereunder, retaining means comprising a grasp hook on each side of said rail, said hooks being embedded skew-fashioned in said tie and the free end of each hook passing from the underside of said tie at the edge thereof, the other end of said hook being bent about the base of said rail and against the web thereof, and means for locking said hooks in said tie, the upper portion of said hooks being bent toward the rail and lying snugly against the lower portions of said rails.

1,342,197. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed July 29, 1919. Serial No. 314,049. 12 Claims. (Cl. 197—27.)

1. In a typewriting machine, the combination of a key controlled lever, and a sub-lever fulcrumed in the plane of movement of the key controlled lever, one of said levers having a connecting arm off-set laterally from the plane thereof and carrying a pin which works in a slot in the other lever, the point of engagement between the pin and the walls of the slot being in the plane of movement of the key controlled lever.



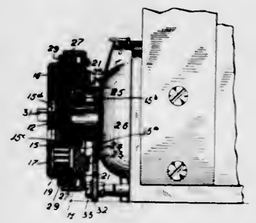
7. In type actions for typewriting or like machines, a slotted support having a groove that extends transversely of said slots, certain of the walls of said groove being inclined one to another, a pivot rod or wire seated and held in said groove against said walls, and members pivoted on said rod or wire and working in said slots.

1,342,198. PACKING. ANDREW P. ANDERSON, Lynbrook, N. Y., assignor of one-half to Walter P. Ten Eyck, Westfield, N. J. Filed Nov. 9, 1918. Serial No. 261,899. 6 Claims. (Cl. 154—45.5.)



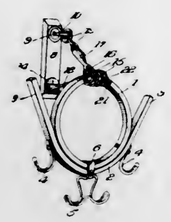
1. A packing material comprising a fabric having metal electro-deposited on both sides thereof and penetrating the interstices between the threads of said fabric, the metal on the opposite sides of the fabric being knit together through said interstices.

1,342,199. IMPULSE-STARTER. FREDERICK W. ANDREW, Brooklyn, N. Y., assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 18, 1918. Serial No. 263,034. 14 Claims. (Cl. 123—149.)



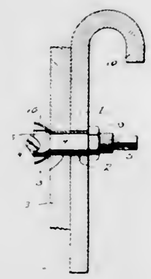
1. An impulse starter comprising a disk, having a hub adapted to be fixed onto the shaft of a magneto, and a peripherical recess; a centrally perforated casing, rotatably mounted upon the disk, and having a portion of its rim extended into the peripherical recess of the disk, a spring having one end connected to the disk, and the other to the casing, means operatively connecting the casing with the shaft of the engine, a fixed stop; means movably mounted on the disk and adapted to drop in engagement with the stop when the engine stops; and means on the casing, adapted to engage the means, movably mounted on the disk, when the said casing is rotated in advance of it, thereby setting the disk, and the magneto shaft, free to be rotated by the spring and by the casing.

1,342,200. CLOTHES-RACK. JOEL D. BARBER, Tuckahoe, N. Y. Filed Feb. 9, 1918. Serial No. 216,334. 2 Claims. (Cl. 45—13.)



1. A garment hanger comprising a supporting rack composed of a supporting ring having a prong member secured thereto to provide outwardly extending hanger prongs or pegs and hanger hooks radially supported thereon and securing means for said hooks fitted to said ring and prong member so as to secure the latter, and a supporting bracket consisting of a base member, a compression supporting member pivotally connected to the base member at the lower end thereof, said compression member being formed of wire bent to form a pivot pin for connection to the base and with its outer end portion curved to inclose a portion of the supporting ring, and to form a connecting loop, a releasable tension support provided with a clasp releasably to engage said loop and provided with securing means adapted for engagement with the bracket and with a support therefor and means on the supporting ring adapted to engage the compression member so as to prevent shifting of the ring member with relation thereto.

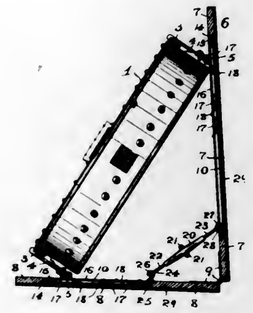
1,342,201. EXPANSION-BOLT. WALTER C. BECKWITH, Fostoria, Ohio. Filed May 25, 1918, Serial No. 236,550: Renewed Oct. 27, 1919. Serial No. 333,688. 4 Claims. (Cl. 85—24.)



1. In a device of the character described the combination of a plate having an opening therein, a hollow sleeve secured in said opening and projecting therethrough, a bolt having a threaded shank of less diameter than said sleeve and a boring head of greater diameter than said sleeve and a nut for said threaded shank.

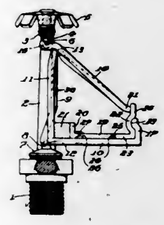
1,342,202. BANJO-SUPPORT. HARRY M. COX, Newark, N. J., assignor to John M. Cox, Passaic, N. J. Filed Jan. 17, 1919. Serial No. 271,630. 12 Claims. (Cl. 84—121.)

1. A banjo-support adapted to be carried upon the lap of the performer for correct positioning of the instrument comprising a pair of angularly disposed members adapted to be disposed upon the back of the head of the banjo, and



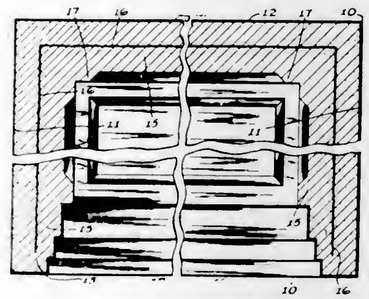
means connected with said members for attaching said members to the clips of the banjo and securing said support in a fixed position upon the back of said head.

1,342,203. FUSIBLE STRUT. JOSIAH DAWSON, Philadelphia, Pa., assignor to The Globe Automatic Sprinkler Company, a Corporation of Pennsylvania. Filed May 24, 1919. Serial No. 299,617. 7 Claims. (Cl. 169—39.)



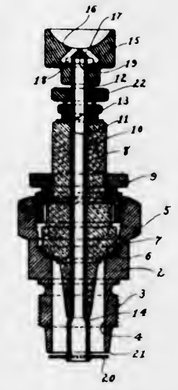
1. In a fusible strut for sprinkler heads, the combination of a plurality of levers, a thrust member in contact with one of said levers and normally urged to move longitudinally in one direction by said last mentioned lever, a fusible member interposed between said thrust member and another of said levers, whereby said fusible member is normally placed under compression.

1,342,204. HEAT-RESISTING CABINET. RALPH H. DICK and CARL F. WOLTERS, Marietta, Ohio, assignors to The Safe-Cabinet Company, Marietta, Ohio, a Corporation of Ohio. Filed Feb. 27, 1918. Serial No. 219,526. 2 Claims. (Cl. 109—2.)



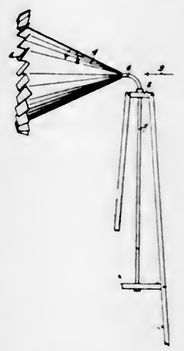
1. A fire-heat resisting document-preserving cabinet or safe comprising an inner independent integral body including fixed walls composed of a set composition containing chemically bound water or moisture, and an outer shell of sheet metal inclosing said integral body and independent thereof, said body being practically devoid, through artificial elimination, of free water and adapted under high temperature as in case of fire to release said chemically bound water in the form of vapor, said outer shell being operative in such case to prevent the exterior escape of said released vapor and said structure being adapted to permit the escape to the interior from said walls of such released vapor into contact with the contents of the cabinet.

1,342,205. SPARK-PLUG. GEORGE T. DOCHTERMANN, Passaic, N. J. Filed Jan. 29, 1919. Serial No. 273,756. 3 Claims. (Cl. 123—187.5.)



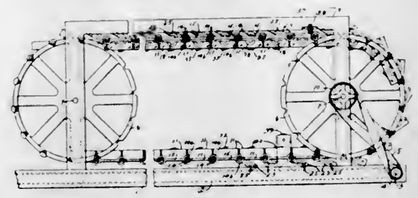
1. In a device of the class described, a tube, and a priming cup adjustably mounted on one end portion thereof, said cup having a rigid member arranged to close the adjacent end of said tube when said cup is adjusted in one direction and having a passage in communication with the interior of said tube when said cup is adjusted in another direction.

1,342,206. WINDMILL. JACOB CHRISTIAN HANSEN-ELLEHAMMER, Copenhagen, Denmark. Filed Nov. 29, 1918. Serial No. 264,557. 1 Claim. (Cl. 170—40.)



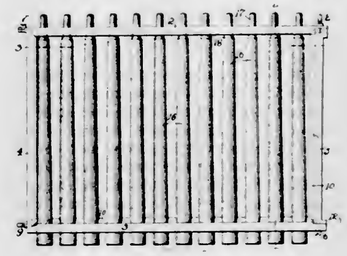
A wind wheel comprising a tapering body adapted to project its apex toward the wind and a circular series of short wings of shovel-like form spaced apart about the perimeter of the base and outwardly and diagonally inclined to the radii and tangents of the body and obtusely to the plane of the base.

1,342,207. FRUIT-CUTTER. DAVID H. ELMER, Centerville, Calif. Filed Dec. 17, 1919. Serial No. 345,650. 8 Claims. (Cl. 146—6.)



1. A fruit cutter comprising a frame, a plurality of flexibly connected cutting elements revolubly mounted thereon, each element including a pair of opposed cooperating cutting blades, one movable with relation to the other, means for normally holding said blades in spaced relation to each other, and means for bringing said blades into a closed position with relation to each other at a given point in their revolution.

1,342,208. MOLD FOR MAKING BUILDING-TILE. LEONARD H. DE FERNELMONT, Philadelphia, Pa. Filed May 8, 1918. Serial No. 233,218. 5 Claims. (Cl. 25—121.)



2. A mold for molding wall tiles, comprising two right-angled frames one of which has its inner face grooved and the other of which has its inner face ribbed and of the same general cross section as the grooves, and the bounding flanges on each side of the ribs and grooves made flaring in opposite directions, the flare of said flanges at each side of the mold being such that if continued they would intersect at substantially a common point, means for detachably clamping the two frames together to form a rectangular mold frame separable into two parts at diagonally opposite corners, and a plurality of tapered cores extending entirely across the mold frame, the large ends of the cores seated in and extending through the ribs and bar of one of the right-angled frames and the small ends of the cores provided with shoulders and extensions of still smaller diameter seated in and extending through the bottom of the groove and bar of the other right-angled frame, said cores throughout their length being circular in cross section and adapted to be rotatable upon their axes and removable longitudinally without separating the mold frame.

1,342,209. ELECTRICAL COIL. THOMAS P. GIBLIN, Pawtucket, R. I., assignor to Commercial Radio Company of America, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 12, 1919. Serial No. 337,503. 4 Claims. (Cl. 175—362.)

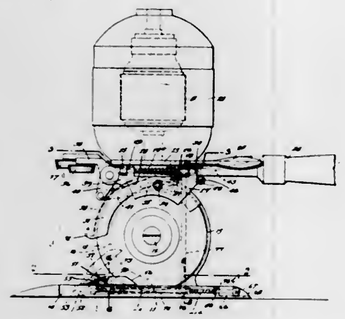
1. An electrical coil composed of insulated wire wound in concentric layers, the turns of wire in each layer be-

ing spaced apart from each other and arranged at an angle to those of the adjacent layers and the turns of each



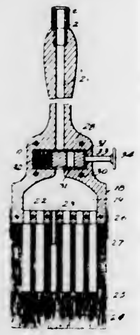
alternate layer being offset laterally with reference to those of the alternate layers either above or below.

1,342,210. CLOTH-CUTTER. NATHAN J. GOLDFARB, Brooklyn, and BERNARD SACKS, New York, N. Y. Filed Nov. 7, 1919. Serial No. 336,508. 9 Claims. (Cl. 164—76.)



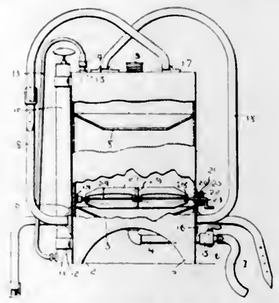
1. In a cloth cutter, a rotary cutting blade adapted to rotate in a vertical plane, a guard extending over the edge of said blade, a longitudinal hinge for said guard, said guard adapted to be raised and lowered, a horizontally disposed foot plate provided with a slot embracing said blade at its lower portion and over which the material to be cut is adapted to be moved, the end of said guard being disposed in spaced relation to said foot plate, means adapted to swing said foot upwardly into an inclined position, and means coöperatively connecting said last named means with said guard and adapted to raise said guard simultaneously with the raising of said foot plate to maintain a substantially constant spaced relation between said foot plate and said guard to permit the free passing of the material therebetween.

1,342,211. FOUNTAIN-PAINTBRUSH. ROBERT HAINSEY, Altoona, Pa. Filed Mar. 6, 1917. Serial No. 152,826. 1 Claim. (Cl. 15—49.)



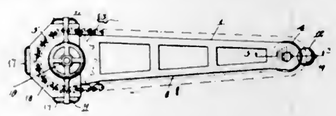
A fountain paint brush including a head having bristles at one end and a handle at the other end, said head and handle having a longitudinally directed passage therethrough for paint and communicating with the bristles and said head formed with a transverse opening with which the passage communicates, a casing open at the sides and disposed within said transverse opening and provided with openings registering with the passage, cover plates bearing over the open sides of the casing and attached to the head, a valve movable within the casing and in contact with the cover plates and having a port registering with the openings in the casing when in one position, and means for actuating said valve.

1,342,212. PAINTING APPARATUS. ROBERT HAINSEY, Altoona, Pa. Filed May 22, 1919. Serial No. 299,006. 4 Claims. (Cl. 91—39.)



1. In a painting apparatus, a tank, a pump arranged exteriorly of the tank and having communication therewith through its top, a funnel-shaped spout protruding into the tank at the point of communication of said pump therewith, a baffle ring interiorly of the tank spaced from its top, and means for causing agitation of the contents of the tank.

1,342,213. METHOD OF AND APPARATUS FOR SAWING TREES. HAROLD L. HANSON, Butte, Mont., and MARION B. SAWYER, Edmonds, Wash. Filed Nov. 25, 1918. Serial No. 263,972. 5 Claims. (Cl. 144—309.)



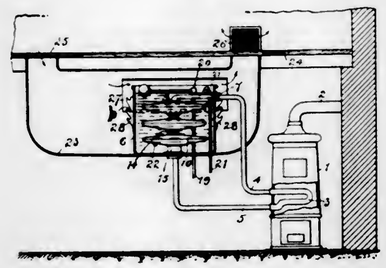
1. In a method of cutting trees, the steps which consist of forming a cylindrical hole through the trunk, making a saw cut into the trunk along such hole as a center line, the cut being of less vertical dimension than the diameter of such hole, and then cutting around the trunk with a tool having means for using such hole as a pivotal retaining means.

5. In an apparatus for sawing trees and the like, the combination of a frame, sprocket wheels mounted in said frame near the ends, a chain saw mounted over said sprockets and around said frame, power means for driving said chain saw, and a slotted ball attached to said frame at the front thereof, said chain saw passing through such slot in said ball.

1,342,214. AIR MOISTENING AND HEATING SYSTEM. ROBERT W. HARDIE, White Plains, N. Y., assignor to R. W. Hardie Company, Inc., a Corporation of New York. Filed May 6, 1919. Serial No. 295,164. 7 Claims. (Cl. 237—56.)

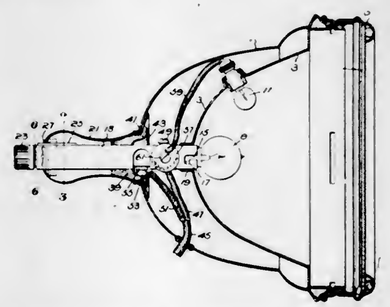
1. In an apparatus of the character described, the combination of an open-topped receptacle for holding water to be vaporized and for use as an expansion tank, a heater within the receptacle provided with an aperture opening

from the interior of the heater into the interior of the receptacle below the water level of the receptacle, a heat generator, pipe connections from the heat generator to



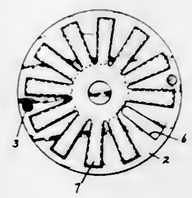
the inlet end of the heater, a radiator below the level of said receptacle, and pipe connections between the heat generator and radiator, and between the radiator and heater.

1,342,215. LAMP. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed July 7, 1916, Serial No. 108,062. Renewed Mar. 9, 1918. Serial No. 221,575. 13 Claims. (Cl. 240—41.)



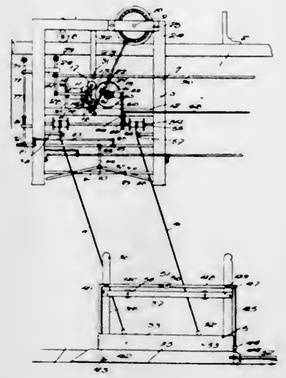
1. A lamp embodying a casing having an interior reflecting surface, a light-carrying member slidably mounted and extending through said casing, and an adjustable jaw coöperating with said casing to clamp said member against sliding movement, said jaw having a lug and slot connection with said member.

1,342,216. INLET OR CHECK VALVE. FRANK L. HENIG, Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co., a Corporation of Illinois. Filed Oct. 25, 1918. Serial No. 259,611. 17 Claims. (Cl. 251—119.)



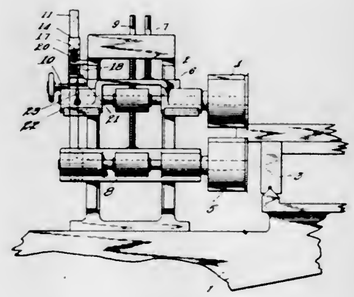
1. In a valve, a spider formed of a single piece of sheet material and having radial flexible arms, and a casing having guides for the extreme free ends of the arms and equipped with radial passages extending therethrough, the passages being so disposed as to be opened or closed by the flexing of the spider arms.

1,342,217. MANURE-CONVEYER. HENRY F. HENSEL, New London, and WALTER J. STAKE, Sugar Bush, Wis. Filed Dec. 12, 1918. Serial No. 266,380. 6 Claims. (Cl. 212—125.)



1. In an apparatus of the character described, in combination, a track, a carrier thereon, means for driving the carrier, a transmission mechanism for controlling the movement of the carrier, a scoop having a movable bottom, means for suspending the scoop from the carrier, clutch controlled means between the transmission means and the suspending means for elevating the scoop, means for releasably retaining the scoop when in an elevated position in connection with the carrier, a trip block on the track, and means associated with the carrier and the scoop for dumping the bottom of the scoop at the time said means engages the trip block.

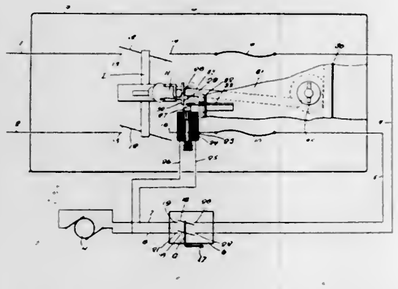
1,342,218. GAGE ATTACHMENT FOR WOODWORKING-MACHINES. HARRY L. HUFFF, Peoria, Ill. Filed Mar. 12, 1918. Serial No. 221,971. 6 Claims. (Cl. 144—198.)



1. An indicating means including in combination, an elongated bar member adapted to be connected to a vertically movable element to move therewith, said bar member having an indicating scale provided on one face thereof, another member coöperating with said bar member and moving over the indicating scale thereon and having an opening therein with one edge of said opening adapted to coöperate with said scale to indicate, said other member being adapted to be connected to another vertically movable element to move therewith, whereby the relative position of the two movable elements is indicated and a third member adapted to be connected to stationary means and to coöperate with said scale and said other member

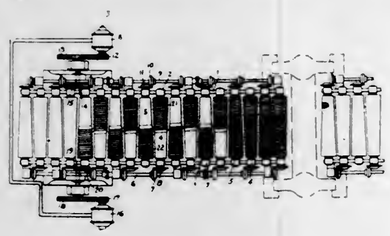
so that when the bar member and said other member are moved for adjusting purposes their relative position to a permanent stationary position will be indicated.

1,342,219. SAFETY SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 6, 1918. Serial No. 238,501. 7 Claims. (Cl. 175—294.)



7. In an electric circuit, the combination with two switches connected at different points in said circuit, removable guard means for guarding certain parts of one of said switches, and connections whereby to cause "off" movement of said mentioned switch whenever said guard means is removed, of means adapted to prevent operation of said connections and to retain the guard member in guarding position except when the second switch is "off."

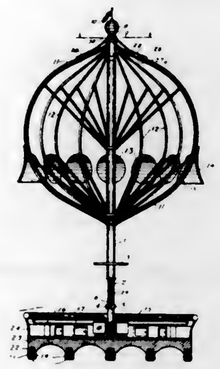
1,342,220. ROLLER-TABLE. HARRY A. LEWIS, Norristown, and ALAN D. WOOD, Philadelphia, Pa. Filed Dec. 23, 1918. Serial No. 268,002. 5 Claims. (Cl. 80—44.)



1. The combination in a roller table of two sets of rollers, one set alternating with the other set, and means for independently driving each set, the said sets of rollers having working surfaces on one set at one end of the rollers only and working surfaces of the other set at the other end of the rollers only, and said working surfaces being ribbed transversely of the rollers, so that the article supported can be engaged by the transversely ribbed surfaces and turned or moved longitudinally.

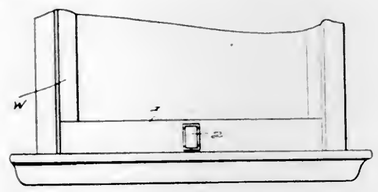
1,342,221. AERONAUTIC LANDING DEVICE. FRANK M. MCDONALD, Seattle, Wash. Filed Dec. 10, 1918. Serial No. 266,047. 10 Claims. (Cl. 244—21.)

1. In apparatus of the character described, a car, a standard extending thereabove, an expansible frame mounted on the standard, a casing covering the frame and expanded to substantially globular form when the frame is expanded, means for controlling the expansion of the frame, said casing having lower inlet and upper outlet



ports, and means for controlling the passage of air through the ports when the casing is in its expanded condition.

1,342,222. WINDOW-VENTILATOR ATTACHMENT. GEORGE E. MERRILL, Salem, Mass. Filed Oct. 25, 1918. Serial No. 259,672. 1 Claim. (Cl. 98—31.)



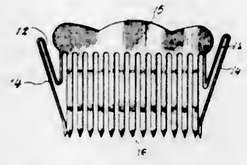
A ventilator attachment of the character described, comprising a base board adapted to be engaged between the side portions of a window frame and having an opening formed in the intermediate portion, a casing secured to one side of said base adjacent the opening and formed with an open side and an open top, the inner wall of said casing being inclined, and a closure plate slidably engaged with the casing adjacent the open top and arranged parallel with the adjacent face of said base board.

1,342,223. AMUSEMENT DEVICE. GOKEN NAKAMURA, Kobe, Japan. Filed June 14, 1917. Serial No. 174,786. 1 Claim. (Cl. 40—28.)



The combination with a plurality of cups having advertising matter and amusing phrases on the upper surface of the bottom and different numerals associated with such phrases and adapted to be hidden by the contents of the cups, of a plurality of saucers for the cups having advertising matter and amusing phrases associated with numerals thereon similar to those on the bottom of the saucers whereby to rivet the attention of persons playing games therewith to increase the effectiveness of the advertising matter.

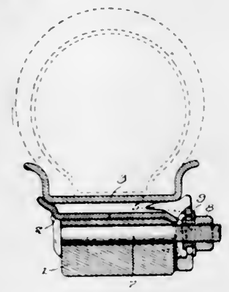
1,342,224. COMB. ADOLF NONNENMANN, New York, N. Y. Original application filed Mar. 24, 1917, Serial No. 284,534. Divided and this application filed July 22, 1919. Serial No. 312,647. 2 Claims. (Cl. 132—8.)



1. A comb comprising a body and teeth, and prongs carried by the ends of the comb and extending first backwardly therefrom and then doubled upon themselves to extend forwardly into close proximity to the end tooth of the comb, for the purpose set forth.

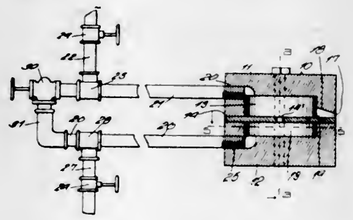
2. A comb comprising a body and teeth, and prongs carried by the ends of the comb and extending first backwardly and outwardly therefrom and then doubled upon themselves to extend forwardly and inwardly into close proximity to the end teeth of the comb adjacent the points thereof, for the purpose set forth.

1,342,225. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Aug. 16, 1917. Serial No. 186,528. 1 Claim. (Cl. 152—21.)



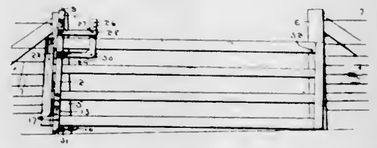
The combination with a wedge plate having an aperture, of a nut formed with a sleeve extending through the aperture, a portion of the sleeve being unthreaded and having a flaring bore, so that the material of the sleeve at the smooth portion decreases in thickness toward the end of the sleeve and terminates in a relatively thin edge, and an integral annulus surrounding the sleeve, parts of the sleeve at the flared portion thereof being turned outward to a radially outstanding condition to form an annular shoulder of greater diameter than the width of the aperture in the wedge plate.

1,342,226. BURNER. JOSEPH G. PLACETTE, Port Arthur, Tex., assignor to Theodore Placette, Port Arthur, Tex. Filed Feb. 26, 1919. Serial No. 279,341. 1 Claim. (Cl. 158—75.)



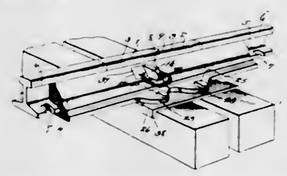
A burner of the character described comprising a casing having a substantially cylindrical mixing chamber and an oil preheating chamber, and an outlet opening leading from the mixing chamber, a partition plate extending between said chambers and provided substantially centrally thereof with an upwardly extending passage, means for supplying oil under pressure into the oil chamber whereby the oil will be forced through the upwardly extending opening and inpinge against the upper wall of the mixing chamber to be sprayed thereby, and means of introducing steam into the mixing chamber.

1,342,227. GATE-HANGER. WILLIAM H. RALEY, Claremore, Okla. Filed Oct. 28, 1919. Serial No. 333,933. 7 Claims. (Cl. 39—83.)



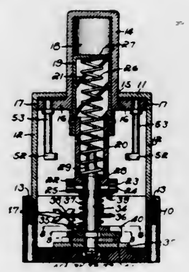
1. A gate hanger comprising an extensible body capable of longitudinal adjustment to permit its application to gate posts of different sizes, post engaging means carried by the body, and gate supporting means carried thereby.

1,342,228. RAIL-JOINT. JAMES RIZZUTO, New Orleans, La. Filed Feb. 28, 1920. Serial No. 362,141. 5 Claims. (Cl. 238—179.)



1. The combination with the adjacent ends of a pair of rail sections having their remote ends provided with rail chairs to receive the ends of the rails to be joined, of means for guiding the adjacent ends of the rail sections together, and means carried by one rail section and adapted to penetrate into the web of the adjacent rail section for connecting the two sections together, thereby preventing upward movement of the rail sections with respect to each other.

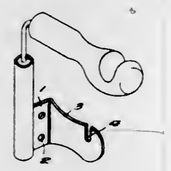
1,342,229. ELECTRIC SWITCH. DELMAR G. ROOS, Fairfield, Conn., assignor to The Locomobile Company of America, New York, N. Y., a Corporation of West Virginia. Filed Mar. 4, 1916. Serial No. 82,238. 8 Claims. (Cl. 200—156.)



8. In an electric switch, the combination of a push button, yielding means tending to restore said push button

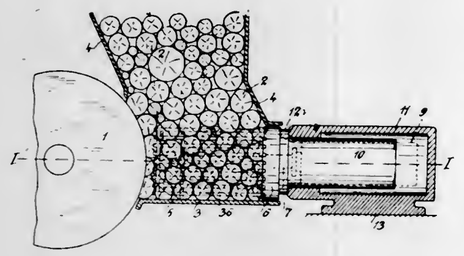
to an initial position, a rotary switch carrier, a switch element carried by said carrier, mechanism actuated by movement of said push button, for imparting a step-by-step rotative movement to said carrier, and means to permit the return of said push button to its fullest extent following one actuation and to limit the return of said push button to a partial return only following the next actuation, the last-mentioned means including one or more stops carried by said carrier and one or more stops carried by said push button and limiting the outward movement of the latter in certain positions of said switch element.

1,342,230. SHADE AND CURTAIN-POLE BRACKET. FRANK RUZICKA, Chicago, Ill. Filed Mar. 18, 1918. Serial No. 223,219. 1 Claim. (Cl. 156—24.)



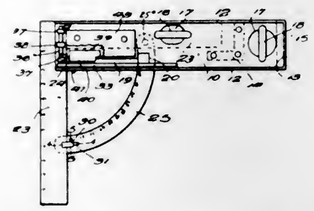
A bracket of the character described comprising an attaching base, a shade supporting arm extending laterally therefrom near the lower end thereof, a tubular member carried vertically of the base and having its upper end open, a core snugly engaged within said tubular member, a curtain pole supporting arm, and a threaded attaching shank extending from the inner end of the pole supporting arm and designed to be adjustably and removably anchored in the core of the tubular member through the top thereof so that the distance between the shade and pole supporting arms may be varied as desired.

1,342,231. GRINDING APPARATUS FOR THE MANUFACTURE OF WOOD-PULP. PEDER CHRISTIAN SCHAANNING, Vestre Holmen, near Christiania, Norway. Filed Mar. 27, 1920. Serial No. 369,323. 24 Claims. (Cl. 83—75.)



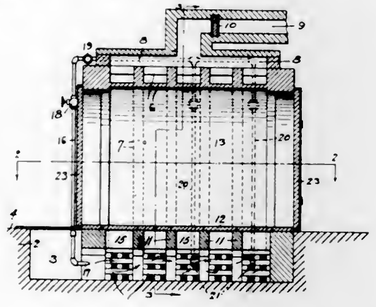
1. In a grinding apparatus for the manufacture of wood pulp, the combination of a grinding stone, a compartment for receiving wooden blocks to be ground, said blocks forming a column to be pressed against the stone, a reciprocable forward-pressing device operating members gripping the faces of the blocks, and a supplying device or hopper for effecting refilling of blocks into said compartment and arranged to feed the blocks in a direction more or less across to the forward-pressing direction into the space behind the blocks of the column gripped by the gripping members and according to the movement of the latter toward the stone, whereby the said space will remain constantly filled with blocks forming an extension of the block column.

1,342,232. COMBINATION ROOF-FRAMING TOOL. HERMAN W. SCOTT, Gardiner, Me. Filed Dec. 23, 1918. Serial No. 268,061. 10 Claims. (Cl. 33—75.)



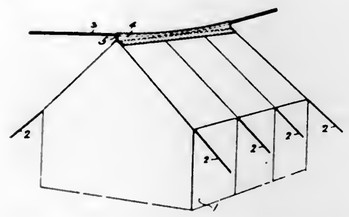
1. A square comprising a handle having a longitudinally extending slot, a blade pivotally mounted in the slot of the handle and having an arm normally extending through the slot, a protractor having one end portion pivotally connected with the arm of the blade, means releasably connecting the opposite end portion of the protractor with the blade, and means for engaging the protractor to releasably hold the same against movement and retain the blade in an adjusted position.

1,342,233. GLASS-ANNEALING FURNACE. MAURICE A. SMITH, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,292. 3 Claims. (Cl. 49—46.)



1. In a furnace for annealing articles of glassware, the combination of the sides and top, an annealing chamber inclosed thereby, flues formed in the sides and top around said chamber, a series of checker-work chambers at the bottom of said furnace communicating with said flues, and means for delivering air and gas to said checker-work chambers, and a stack with which said flues communicate.

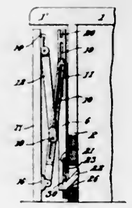
1,342,234. TENT. WALTER K. SMITH, Ellwood City, Pa. Filed Oct. 11, 1919. Serial No. 329,967. 6 Claims. (Cl. 135—1.)



6. A ridge construction for tents comprising a strip of fabric cut with its two longer edges curved inwardly,

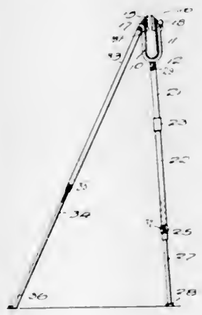
said strip being secured to the sides of the tent at the ridge thereof with its originally curved edges substantially straight, whereby the said strip defines a space lengthwise of the ridge of the tent, the said space being deeper at its ends than in the middle.

1,342,235. AUTOMOBILE-SEAT EXTENSION. THEOPHILUS FRANK SNYDER, Delphos, Ohio. Filed Jan. 13, 1920. Serial No. 351,224. 4 Claims. (Cl. 155—7.)



2. The combination with an automobile seat of an extension member embodying a two-part brace adapted for rigid connection when alined, pivotal connection between said brace and seat, an extension board pivoted to said brace, said brace having a slotted guide formed therein and a link pivoted to said board and slidable in said guide for maintaining said board in horizontal position.

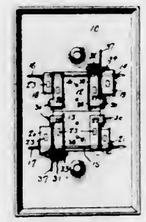
1,342,236. SAW-FILING CLAMP. JOHN SZAKO, Milwaukee, Wis. Filed May 8, 1919. Serial No. 295,696. 2 Claims. (Cl. 76—78.)



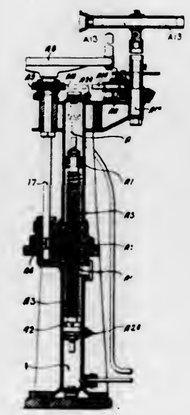
1. In a device of the class described including side portions in spaced relation and having guide devices extending from the confronting faces, coacting gripping jaws having sockets to engage said guide devices, means for rigidly coupling one of said jaws to one of said side portions and over one set of said guide-devices, and means for movably coupling the other of said jaws to the other of said side portions and slidable over the other set of said guide devices.

1,342,237. FACE-PLATE FOR FLUSH RECEPTACLES. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 4, 1915. Serial No. 65,130. 10 Claims. (Cl. 16—106.)

8. In an electrical device, an exposed sheet metal cover plate, an associated metallic member at the back thereof, said parts being pierced in register by rectangular apertures beveled on a single axis and inwardly toward the meeting faces of said members, in combination with a rectangular rivet of metal homogeneous with that of the cover plate, said rivet passing through said apertures and being spread at its opposite ends into engagement with the beveled walls of the aperture and being flush with the face of the cover plate in the finished device, the homogeneity of the metal of the rivet and cover plate serving to render the rivet indistinguishable from the cover plate and having the same appearance as the latter irrespective of the finish imparted to the surface.



1,342,238. TELEMOTOR APPARATUS. WILLIAM WALLACE, Edinburgh, Scotland. Filed Apr. 4, 1918. Serial No. 226,795. 4 Claims. (Cl. 138—23.)

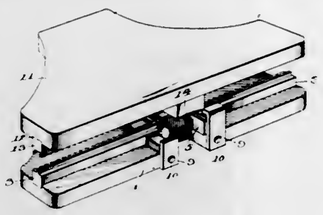


1. In a telemotor system, a transmitter, a receiver, a direct constant and entirely closed circuit operatively connecting the same, in combination with a storage tank, a pump for forcing operating liquid through the system from said storage tank to eliminate air (other than that in solution), together with a pressure vessel connected in the system and with the pump for maintaining in the system a pressure greater than that of the atmosphere, and means for cutting the pump and storage tank out of the system during the operation of the telemotor.

1,342,239. COMBINATION-DIES FOR PUNCHING, CREASING, AND FINISHING THE HEADS OF SOLID-END PAPER BOXES. HARRISON B. WALTER, Danville, Ill. Filed Dec. 20, 1917. Serial No. 208,077. 5 Claims. (Cl. 93—58.)

1. The combination of a top and bottom bolster, and having alined longitudinal and parallel transverse creasing means on both, and punching means on said bolsters, consisting of longitudinal and transverse parallel cutting

edges and arranged at the intersection of said longitudinal and transverse creasing means, the longitudinal



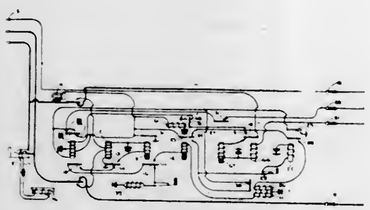
and transversely parallel edges of the punching means alining with the alined longitudinal and parallel transverse creasing means.

1,342,240. CUTTING-BLADE FOR STAPLING-MACHINES. HARRISON B. WALTER, Philadelphia, Pa. Filed Feb. 19, 1918. Serial No. 218,139. 2 Claims. (Cl. 164—58.)



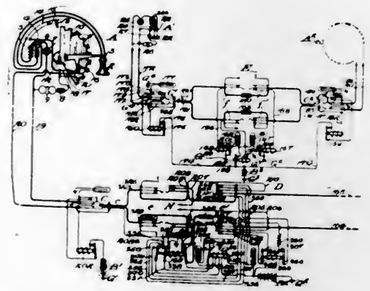
1. The combination with a support having a circular socket therein, of a circular cutter having a stud integral therewith, which fits and is capable of being turned and adjusted in the socket, the socket and stud arranged transversely of the direction of travel of the support, and means extending through the blade for securing it in its adjusted position against turning.

1,342,241. SEMI-AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 21, 1918. Serial No. 223,685. 8 Claims. (Cl. 179—27.)



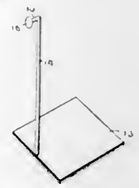
8. In a telephone system, a trunk line, an operator's position, an automatic switch controlled by said operator for extending a connection to a called line over said trunk line, another automatic switch for seizing said trunk line for extending a connection to said operator's position, a relay controlled by the extension of the connection by the operator for preventing seizure of said trunk line, when the called line is idle, and another relay for allowing said trunk line to be seized while said connection is established by the operator if the called line is busy.

1,342,242. TELEPHONE-EXCHANGE TRUNKING SYSTEM. BERNARD D. WILLIS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 10, 1909. Serial No. 501,272. Renewed Oct. 29, 1919. Serial No. 334,378. 20 Claims. (Cl. 179—27.)



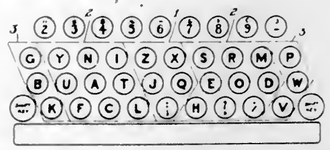
1. In a telephone system, a trunking operator's cord circuit terminating at one end in a plug and at the other end in an automatic switch, a subscriber's line provided with means for rendering said cord circuit operative for talking purposes when connection is made thereto, and another subscriber's line provided with means for rendering said cord circuit inoperative for talking purposes when connection is made thereto.

1,342,243. CONTAINER. JOHN M. WILSON, Healdton, Okla. Filed Oct. 24, 1919. Serial No. 332,864. 2 Claims. (Cl. 217—64.)



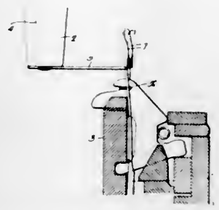
1. A container having a closed bottom and a recess in its upper edge, a follower within the container, a lifting rod attached to the follower and having a lateral offset extending through the recess, and having a terminal knob, and a detachable closure for the container including a downturned rim engageable over the open end thereof and having a recess registering with the recess of the container and bearing over the offset portion of the lifting rod and holding the same from vertical displacement and coacting with the knob to prevent lateral displacement of the same.

1,342,244. KEYBOARD. CHANDLER WOLCOTT, Rochester, N. Y. Filed Jan. 24, 1919. Serial No. 272,923. 8 Claims. (Cl. 197—100.)



1. A keyboard having a group of the least frequently used letter keys at the center thereof, and letter keys of greater frequency of use arranged in two groups on opposite sides of the center group, there being in neither of the last two groups letter keys of less frequency of use than those in the center group.

1,342,245. STOP-MOTION. ELMER U. AMES, Philadelphia, Pa., assignor to H. Brinton Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 9, 1917. Serial No. 201,071. 9 Claims. (Cl. 66—7.)



1. The combination in a circular knitting machine of a needle cylinder; needles operative therein; and stop mechanism including a controlling member mounted to be engaged by any of said needles which projects inwardly from its normal position in said cylinder.

1,342,246. COMBINED HAND-TRUCK AND SCALE. ALFRED JAMES BISHOP, Burswood, Australia. Filed Jan. 17, 1918. Serial No. 212,249. 8 Claims. (Cl. 265—42.)



1. A combined truck and scales comprising a wheeled truck body having a weight receiving portion, weighing mechanism on said truck body having a weighing platform, and a tilting lip for transferring a load from said weight receiving portion to said platform.

1,342,247. COMBINING REFLECTED AND TRANSMITTED LIGHT-WAVES OF VARYING LENGTHS TO PRODUCE SUBJECTIVE CHANGES IN SCENIC EFFECTS. CHARLES BITTINGER, Duxbury, Mass. Filed Nov. 6, 1919. Serial No. 336,030. 24 Claims. (Cl. 46—70.)



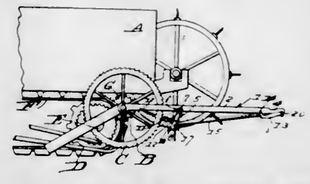
1. The method of producing varying visual effects, which consists in applying color of predetermined known qualities of reflection, and possessed of an invisible spectral difference to a scene, and of utilizing said invisible spectral difference and changing the visual effect thereof by permitting certain rays only to reach the eye of the observer.

1,342,248. PHOTO-STICKER. ERNEST V. BLOOMQUIST, Minneapolis, Minn. Filed Sept. 8, 1919. Serial No. 322,317. 1 Claim. (Cl. 40—158.)



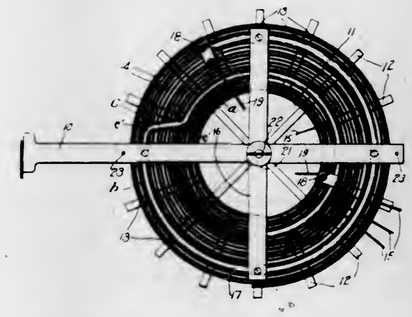
A photograph having on its back at the corners thereof thin stickers secured thereto by adhesive material and having exposed adhesive faces which, when moistened, are adapted to secure the photograph to a mounting sheet, the said stickers being of angular formation.

1,342,249. ATTACHMENT FOR MANURE-SPREADERS. ANTON E. BRICHACEK, Clarkson, Nebr. Filed Dec. 26, 1918. Serial No. 268,254. 2 Claims. (Cl. 74—54.)



1. In a manure spreader, the combination with the automatically operating mechanism therefor including a rotatable shaft and a ratchet wheel carried by the shaft, of auxiliary manually operating means for the mechanism comprising a hand operable lever having one end loosely connected to the shaft adjacent to the ratchet wheel, a pawl pivoted on the lever, a guide lug formed on the pawl to bridge the ratchet wheel to lie at the inner side thereof, a coiled tension spring between the lever and the pawl for yieldingly holding the pawl in engagement with the teeth of the ratchet wheel, a bell crank handle pivotally mounted on the lever and operatively connected to the pawl, and coactive means on the hand lever and on the handle for releasably holding the pawl in a retracted position.

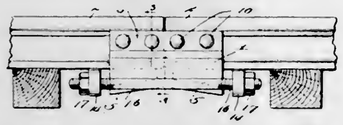
1,342,250. TRANSFORMER. VANNEVAR BUSH, Medford, Mass., assignor to American Radio & Research Corporation, Medford, Mass., a Corporation of Delaware. Filed May 5, 1917. Serial No. 166,729. 5 Claims. (Cl. 171—242.)



1. A transformer having a primary and a secondary winding, and means for varying the effective length of

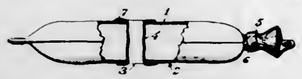
these windings, one of the windings being constructed and arranged to maintain the coefficient of coupling constant during such variation in length.

1,342,251. RAIL-CHAIR. CORNELIUS S. CLARK, Norfolk, Va., assignor of one-fourth to Wm. H. Venable and Edwin S. Ely, Norfolk, Va. Filed Jan. 8, 1920. Serial No. 350,076. 7 Claims. (Cl. 238—206.)



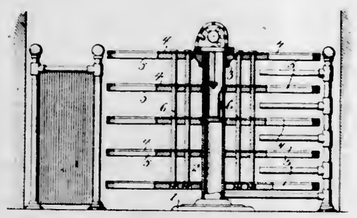
1. A combined rail chair and joint comprising a chair formed with an internal channel, said channel having its bed inclined to provide two surfaces, beveled wedge plates adapted to coöperate with the inclined bed of said internal channel to secure the rail in position; said wedge plates being formed with projecting apertured flanges and means to secure said wedge plates in position in the chair.

1,342,252. WATER-BAG. DELIA A. CLIMES, San Diego, Calif. Filed Feb. 24, 1919. Serial No. 278,646. 3 Claims. (Cl. 128—258.)



1. A water bag comprising a body of flexible waterproof material having an aperture formed in each of its top and bottom walls, and a collapsible tube secured to said walls and extending through the body of the bag from one of said apertures to the other, said walls being so formed that they will be dished about each end of the tube when the walls are distended.

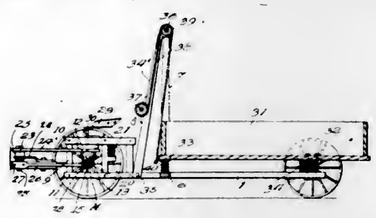
1,342,253. TURNSTILE. ALBERT K. COLLINS, Charlotte, N. C. Filed Feb. 12, 1920. Serial No. 358,197. 7 Claims. (Cl. 39—3.)



1. In a turn-stile, a base, a vertical column secured to said base, annular members carrying radially projecting arms rotatably mounted on said column, a ratchet wheel mounted on the uppermost annular member, a ratchet wheel mounted on said column and superimposed on said first-named ratchet wheel, and means coöperating with said ratchet wheels to lock the annular members against rotation.

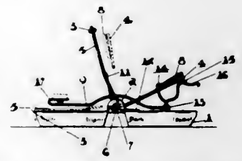
2. In a turn-stile, a base, a vertical column secured to said base, annular members carrying radially projecting arms rotatably mounted on said column, a ratchet wheel mounted on the uppermost annular member, a ratchet wheel mounted on said column and superimposed on said first-named ratchet wheel, and means including a horizontally disposed slidable bar adapted to coöperate with said ratchet wheels to maintain the annular members against rotation.

1,342,254. WAGON-FRAME. LAMBERT COPPOCK, Berlin, Oreg. Filed Mar. 27, 1917. Serial No. 157,694. 5 Claims. (Cl. 21—189.)



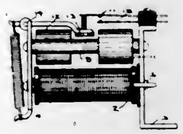
1. In a vehicle including a reach member and a forward axle, a draft appliance connected to the forward axle, a member rigidly connected to the forward axle and movably coupled to the reach member, and means operating to maintain the draft appliance in normal position relative to the reach member and yieldable under the forward pull of the draft power.

1,342,255. MOUSETRAP. JAMES C. DOUST, Toronto, Ontario, Canada. Filed Apr. 30, 1919, Serial No. 293,767. Renewed Apr. 17, 1920. Serial No. 374,750. 4 Claims. (Cl. 43—81.)



1. In a mouse trap, the combination of a base; a pivoted spring actuated bail-shaped jaw adapted to coöperate with the base and having a bail-shaped tail piece connected therewith; and a bait-holding trigger, pivoted on the base behind the pivots of the jaw, adapted to engage the tail piece and extending forward to a point in front of the pivots of said jaw.

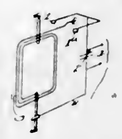
1,342,256. RELAY. JOHN ERICKSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Original application filed Dec. 8, 1917, Serial No. 206,318. Divided and this application filed Aug. 9, 1919. Serial No. 316,519. 3 Claims. (Cl. 200—91.)



1. In a relay, a magnet, an armature for said magnet, means for applying direct or alternating current to said magnet, means for causing said armature to be attracted momentarily when direct current is applied to said magnet and for causing said armature to be permanently attracted as long as alternating current is applied to said magnet.

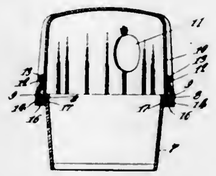
1,342,257. ELECTROMAGNETIC-WAVE NAVIGATIONAL SYSTEM. JAMES ERSKINE-MURRAY and JAMES ROBINSON, Biggin Hill, England. Filed Dec. 16, 1919. Serial No. 345,349. 4 Claims. (Cl. 250—11.)

4. The herein described method of determining the direction of propagation of electromagnetic waves received from an external source by determining the position of a rotatable coil in which the signals due to the received waves have minimum intensity by the direct comparison



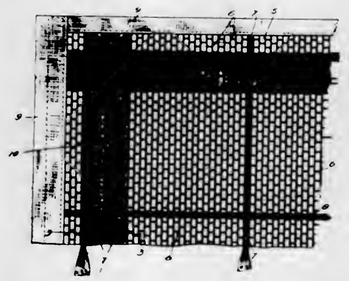
of two moderately strong signals, one on either side of the minimum, which consists in rotating the coil until the two aforesaid signals are of equal intensity and concurrently cutting out signals of intermediate intensities.

1,342,258. FURNACE-JOINT. JOSEPH FARRIS, Springfield, Ill. Filed Aug. 28, 1918. Serial No. 251,818. 1 Claim. (Cl. 126—99.)



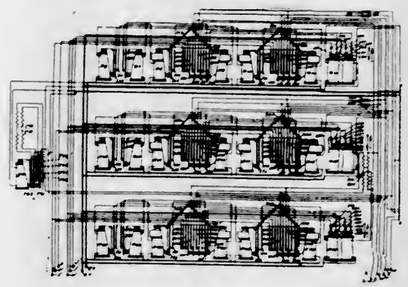
A furnace joint in combination with a fire pot and a dome, said fire pot having an annular flange adjacent its upper portion and said dome resting upon said flange, said dome having upwardly bent hooks, retaining hooks having a comparatively square and flat upper portion provided with comparatively square openings, the portions above said openings adapted to completely fill the space between said upwardly bent-hooks and said dome thereby preventing outward movement of the lower portions of said retaining hooks, said retaining hooks being curved outwardly toward their lower portion and then being bent to form inwardly extending horizontal bills, whereby said retaining hooks may pass around the lower portion of the flange of the fire pot, to allow said bills to extend around said flange, and means carried by said bills to jam against the under surface of said flange, thus urging said bills downwardly from said flange, whereby said retaining hooks will firmly hold said dome upon said fire pot.

1,342,259. RUG. MANUEL FELDMAN, New York, N. Y. Filed Dec. 27, 1919. Serial No. 347,715. 1 Claim. (Cl. 139—9.)



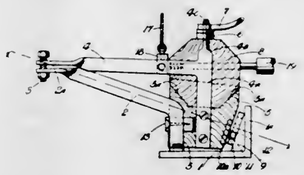
A patterned rug having grass woof and thread warp strands, and spaced longitudinally and transversely disposed reinforcing members interwoven with said woof and warp strands to reinforce and strengthen the entire body of the rug from edge to edge, both longitudinally and transversely of the same, certain of said reinforcing members being made from fabric filling strips, while the other reinforcing members are made from material identical with the warp strands.

1,342,260. TOLL-TELEPHONE SWITCHING APPARATUS. HERBERT M. FRIENDLY and ARCHIBALD E. BURNS, Portland, Oreg.; said Burns assignor to said Friendly. Filed June 15, 1915. Serial No. 34,182. 26 Claims. (Cl. 179—27.)



1. The combination of a plurality of lines entering a common station; a remote station on each of said lines; as many springjacks connected to a said line at each of said remote stations as there are lines entering said common station; a switching plug at each station adapted to use in said springjacks; means whereby inserting said plug into any of said springjacks will cause the line with which it is associated to become connected with a predetermined line entering the common station; a springjack at each said station for service to the common station.

1,342,261. APPARATUS FOR CUTTING TAPERED ELLIPTICAL HOLES. FRANCIS EDWARD BOWLES FRIPP, Brockenhurst, England, assignor to Colin Huntly Gordon, Christchurch, New Zealand. Filed Dec. 31, 1918. Serial No. 269,168. 6 Claims. (Cl. 144—69.)

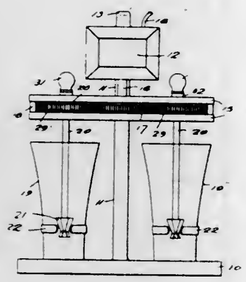


1. In apparatus for cutting tapered elliptical holes, the combination with a carrier for the maul-head or other part in which the hole is to be cut, of a radius-rod fulcrumed at one end in such manner as to permit of universal movement, a templet operatively connected with the radius-rod to limit its movement, and guiding-means to prevent the radius-rod from rocking about an axis passing through the fulcrum-point and the point of contact with the templet.

1,342,262. MOTOR-DRIVEN GEARING. WILLIAM JAMES GEORGESON, Oneonta, N. Y. Filed July 29, 1918. Serial No. 247,199. 2 Claims. (Cl. 74—7.)

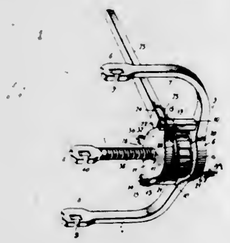
1. In combination a base, a motor casing supported thereon having a vertical shaft, a pair of spaced plates receiving said shaft, a gear fixed to said shaft and located between said plates, gears journaled between the plates

in mesh with the first mentioned gear and provided with polygonal bores, cylindrical shafts movable axially through the bores of the gears and provided with an enlarged polygonal upper terminal adapted to snugly fit the polygonal bores of the gears to establish a driving connection



therewith, the cylindrical body portions of the shaft being movable into the polygonal bores of the gears to permit rotation of the latter independently of the shafts, and handle knobs carried by the upper terminals of the shafts limiting the downward movement of the latter through the gears.

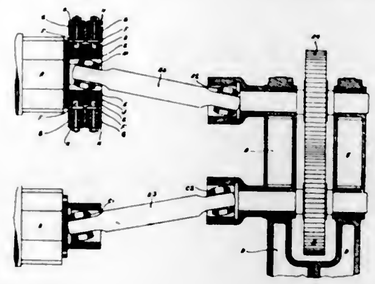
1,342,263. RAIL-BENDER. EDWARD FISHER GOBEN, Muskogee, Okla., assignor of one-half to Presley R. Allen, McAlester, Okla. Filed Aug. 17, 1917. Serial No. 186,751. Renewed Dec. 1, 1919. Serial No. 341,797. 3 Claims. (Cl. 153—38.)



1. A rail bender of the type having a yoke with rail-engaging arms and an intermediate body with a cover disk held in fixed spaced relation to the intermediate body, a ratchet disk between the said body and cover disk provided with grooves in the opposing faces loosely engaged by rings having flanges forming a socket to receive means for operating the rings on the ratchet disk and also provided with projections, a bracket arm interposed between and secured to the projections of the rings and carrying a cylinder extending at an angle therefrom and radially to the ratchet disk, the said cylinder having a spring-controlled pawl reversibly inclosed therein, and means movably engaging the outer free end of the cylinder and connected to the outer end of the stem of the pawl for reversing the latter in the cylinder and locking it in its adjusted position.

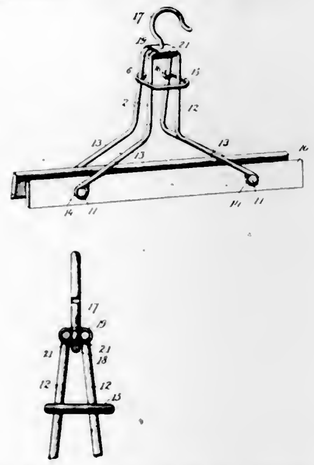
1,342,264. IMPROVEMENT IN CONNECTION WITH PLATE AND LIKE ROLLING MILLS. THOMAS EDMUND HOLMES, Glasgow, Scotland. Filed May 15, 1918. Serial No. 234,783. 1 Claim. (Cl. 80—54.)

In plate or like rolling mills, a roll and a driving connection therefor comprising concentric driving and driven cylinders, a series of radial spring-pressed plungers carried by one of said cylinders, and friction pads pressed by



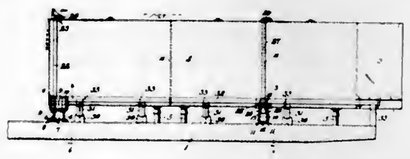
plugs against the other cylinder, together with means for adjusting the pressure of said springs.

1,342,265. GARMENT-HANGER. FRANK P. JOHNSON, Danville, Pa., assignor to Henry Voeleker, Danville, Pa. Filed Dec. 16, 1919. Serial No. 345,207. 5 Claims. (Cl. 211—13.)



2. In a garment hanger, a pair of clamping jaws, a hinge plate holding the jaws together at their upper ends, said plate having its ends bent over and returned, and a suspending hook secured to the hinge plate and held thereby and in turn holding the bent ends of the hinge plate.

1,342,266. MOTOR-TRUCK CONSTRUCTION. WALTER A. KYSOR, Cadillac, Mich., assignor to Acme Motor Truck Co., Cadillac, Mich., a Corporation of Michigan. Filed Nov. 5, 1918. Serial No. 261,200. 11 Claims. (Cl. 280—5.)



1. In motor truck construction, a chassis, a tank extending lengthwise of the chassis, a bolster on the chassis

underriding and supporting one end of the tank near one end of the chassis, and a cradle underriding and supporting the tank near at a point between its center and its other end, said cradle having a pivotal connection with the chassis intermediate of the ends of the cradle and of the width of the chassis, the pivotal connection extending lengthwise of the tank and the chassis.

1,342,267. REINFORCED GLASS AND PROCESS OF MAKING THE SAME. LÉON FRANÇOIS MASCART, Paris, France, assignor to Société du Verre Triplex, Paris, France. Filed Mar. 21, 1914. Serial No. 826,411. 15 Claims. (Cl. 49—81.)

7. The process of making non-scatterable glass which comprises applying to a sheet of glass successively a solution of gelatin and a solution of cellulose material, at least one of said solutions containing a solvent which has a solvent action upon both the gelatin and the cellulose material.

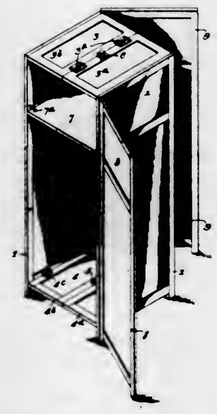
15. As a new article of manufacture, reinforced glass, comprising a sheet of cellulosic material, faced on each side by layers of said material and gelatinous material and a sheet of glass all firmly adhered together.

1,342,268. MANUFACTURE OF REINFORCED GLASS. LÉON FRANÇOIS MASCART, Paris, France, assignor to Société du Verre Triplex, Paris, France. Original application filed Mar. 21, 1914, Serial No. 826,411. Divided and this application filed Sept. 12, 1918. Serial No. 253,790. 9 Claims. (Cl. 49—81.)

1. As a new article of manufacture, reinforced glass comprising a sheet of glass faced by a layer of gelatin adherent thereto, together with a layer of cellulose ester adherent to the gelatin, the face of the cellulose ester layer having a surface characteristic promoting the adhesion of the gelatin thereto.

6. In the process of making glass reinforced by adherent layers of gelatin and cellulose ester, the step of altering the surface characteristic of the cellulose ester layer to promote its adhesion to the gelatin.

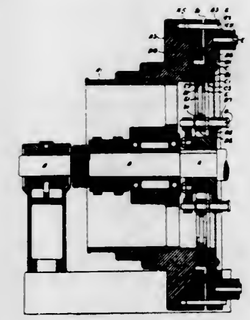
1,342,269. PORTABLE WARDROBE. IRVING N. STEWART, Philadelphia, Pa. Filed Oct. 8, 1919. Serial No. 329,275. 1 Claim. (Cl. 45—118.)



A wardrobe having side panels, roof and bottom panels, said roof and bottom panels being formed in two equal sections hinged together at their abutting edges and each hinged at its opposite edge to one of the side panels, releasable supporting means disposed at the point of abutment of the sections, a shelf disposed within the wardrobe, said shelf being hinged to one of the side panels and detachably connectible to the other side panel, and two doors each hinged to a side panel at diagonally opposite corners of the wardrobe, the whole forming a structure adapted to be collapsed into a substantially flat unit when not in use

---

1,342,270. ELECTRICALLY-OPERATED FRICTION-CLUTCH. MALCOLM WALKER, Glasgow, Scotland. Filed Aug. 16, 1918. Serial No. 250,262. 2 Claims. (Cl. 192—7.)



1. In an electrically operated friction-clutch, driving and driven elements, a magnetic member on one of said elements, an outer metal ring secured to said magnetic member at a distance from the face thereof, an armature between the magnet and the ring, endwise movable spindles carrying the armature and working in bearings in the magnet and ring, frictional surfaces on the magnet and armature situated out of the magnetic field, in combination with a spider secured to the other of the driving and driven elements, a clutch disk arranged between the said frictional surfaces and spring-controlled, endwise-movable spindles securing the clutch disk to the spider, substantially as described.

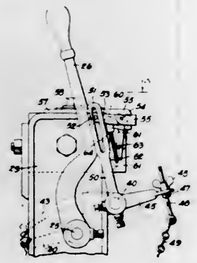
1,342,271. RESILIENT WHEEL. HIRAM C. ANDERSON, New York, N. Y. Filed Apr. 16, 1919. Serial No. 290,599. 1 Claim. (Cl. 152—42.)



In a resilient wheel, the combination of inner hub means, resilient cushioning means carried by the inner hub means and including a series of radially projecting lugs of cylindrical form and outer hub means coöperating with the resilient cushioning means and comprising two disk members lying in the same plane at one side of the central plane of the cushioning means, another disk member lying flat against said two disk members

and including a series of radial cylindrical sockets in which the cushioning means lugs are radially fitted and whose centers lie in said central plane of the cushioning means, and means to secure said disk members together.

1,342,272. TAKE-UP STOP-MOTION. HUGO RICHARD BAUER and HERMAN FRANZ REINHOLD, Clifton, N. J. Filed Dec. 2, 1919. Serial No. 341,921. 10 Claims. (Cl. 139—54.)



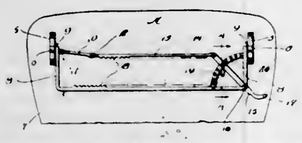
1. In a loom, a filling controlled loom stop motion adapted to stop the loom, a take-up and a take-up stop motion controlled by a member of the said filling controlled stop motion to render the take-up inoperative prior to the stopping of the loom, and means controlled by the said take-up stop motion and adapted to prevent restarting of the loom until the take-up stop motion is reset.

1,342,273. LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. HANS HENRIK BLACHE, Hellerup, near Copenhagen, Denmark. Filed Aug. 2, 1919. Serial No. 315,024. 4 Claims. (Cl. 184—18.)



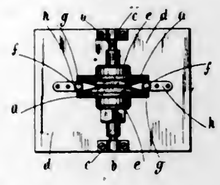
3. The combination of a cylinder; a piston working therein and provided with a set of packing rings and with a scraper ring distinct therefrom; and a lubricant supply passage formed vertically in the cylinder wall and opening horizontally at its outlet end through the inner face of said wall at a point which is approximately opposite the scraper ring when the piston occupies its lowermost position in the cylinder, whereby said scraper ring is enabled to scrape up the lubricant entering the cylinder through the outlet end of said passage and spread it in film form far up along said inner face of the cylinder during the upward movement of the piston, and to slide over the film when the piston moves downward.

1,342,274. ROBE-HOLDER. ROBERT L. CLARK, Union, W. Va. Filed Dec. 9, 1919. Serial No. 343,582. 3 Claims. (Cl. 45—13.)



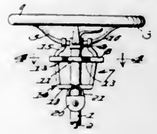
1. A holder of the character described comprising a swingingly supported frame, a keeper rod coöperating with said frame, means swingingly supporting said keeper rod to move the same toward and away from the frame, and a hand lever for said means.

1,342,275. DEVICE FOR USE IN SHARPENING DOMESTIC AND OTHER KNIVES. ALFRED CORNELL, Tonbridge, England. Filed July 2, 1918. Serial No. 243,082. 5 Claims. (Cl. 51—210.)



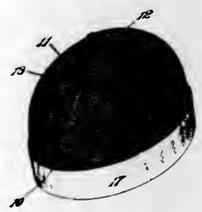
1. A machine for sharpening knives by reciprocating the blade upon the sharpening surface so as to rotate the same, comprising rotatable beveled grinding disks having a spacing washer of leather between said disks, a support for said disks, and a pair of rotatable guides disposed tangentially at diametrically opposite points to enter the V-groove constituted by the beveled portions of said disks.

1,342,276. AUTO STEERING-LOCK. LUTHER F. COSBY, Dallas, Tex. Filed Oct. 23, 1918. Serial No. 259,348. 3 Claims. (Cl. 70—129.)



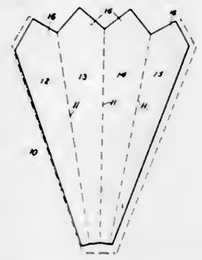
1. The combination with a steering post and a steering wheel, of a motor vehicle, of a cross bar rigidly clamped to the post, locking members formed at the upper ends with hooks for embracing the spokes of the wheel and at their lower ends with arms for embracing the post, and locking means for holding the arms and hooks in position and for holding the members against the cross bar.

1,342,277. MOSQUITO-MASK. PETER DOWD, Globe, Ariz. Filed Feb. 12, 1919. Serial No. 276,553. 1 Claim. (Cl. 2—116.)



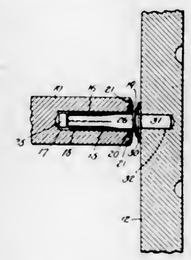
A mosquito mask comprising a band formed from a length of metal and bent at a number of diametrically opposite points to provide inwardly extending and headed projections, a pair of arched members having their ends formed with eyes which receive opposite projections and on which projections the arched members are arranged to pivot, the intermediate portion of one of the arched members being formed with a kink into which the intermediate portion of the other arched member is arranged to snap, and a netting secured to the band and arranged to be held in dome-shaped formation by the arched members.

1,342,278. IRONING-SUPPORT. SAMUEL ELLIOTT DURANT, New York, N. Y. Filed Mar. 18, 1919. Serial No. 283,380. 1 Claim. (Cl. 68—10.)



As an article of manufacture, an ironing support for insertion into the open end of a necktie, scarf or like neckwear, comprising a tapering body made of a single piece of paper having diverging creases providing tapering folds arranged in superimposed relation, the outer folds overlying the adjacent middle folds, the middle folds forming the top and bottom members of the support, and marginal stitches fastening the folds together.

1,342,279. WHEEL-BEARING FOR FURNITURE. ROBERT J. EHLERS, Northport, N. Y. Filed Dec. 28, 1918. Serial No. 268,697. 1 Claim. (Cl. 21—153.)



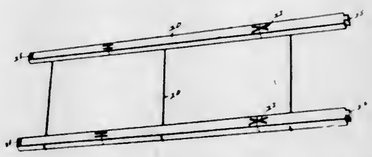
A wheel bearing for furniture, comprising a thimble skein having a split inner end and provided with an annular flange at its outer end, the said flange having angular prongs adapted to be driven into a post or leg of a piece of furniture, a spindle having at its inner end a head adapted to pass through and temporarily open the split end of the thimble on driving the spindle into the thimble skein, the head abutting against the said inner end of the thimble skein to hold the spindle against outward movement, the said spindle having a shoulder abutting against the outer end of the said thimble skein, an attaching bracket on the said spindle adjacent the said shoulder to attach the spindle to the wheel, and a pin forming an extension of the said spindle and engaging a central recess in the wheel.

1,342,280. ELECTRICALLY-VIBRATED TOOTHBRUSH. PATRICK J. FITZGERALD, Torrington, Conn., assignor to The Fitzgerald Mfg. Co., Inc., Torrington, Conn., a Corporation of Connecticut. Filed July 8, 1919. Serial No. 309,295. 2 Claims. (Cl. 128—55.)



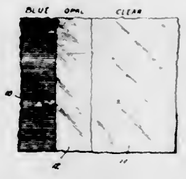
1. An electrically vibrated tooth brush comprising a casing, a supporting handle therefor, an electromagnetic means arranged within said casing and including a vibrated armature having a longitudinal extension, a tooth brush mounted in said extension and arranged so that vibration is produced substantially endwise of the bristles.

1,342,281. TEMPORARY TRACK FOR MINE-CARS. LLOYD M. FOREMAN, Belva, W. Va. Filed Dec. 31, 1919. Serial No. 348,519. 4 Claims. (Cl. 238—10.)



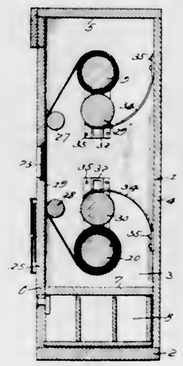
1. A portable or temporary track for mine cars consisting of sections each of which comprises parallel rail members connected by transverse flexible tie members.

1,342,282. LAMINATED GLASS. MARSHALL W. GLEASON, Brooklyn, N. Y., assignor to Gleason Tiebout Glass Co., New York, N. Y., a Corporation of New York. Filed June 10, 1919. Serial No. 303,182. 3 Claims. (Cl. 49—92.)



1. The herein described article of glassware comprising a plurality of laminæ one of which is of a distinctive color while the others are of a neutral character as to color but different from each other.

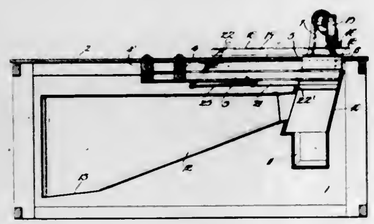
1,342,283. STATION-INDICATOR. JACOB L. GORE, Hugo, Okla., assignor of one-half to John M. Warren, Hugo, Okla. Filed Aug. 8, 1918. Serial No. 248,896. 1 Claim. (Cl. 40—86.)



A device for the purpose specified embodying a main casing in the front face of which there is formed an opening, rotatably idle rollers disposed above and below the opening, upper and lower main rollers carried within the

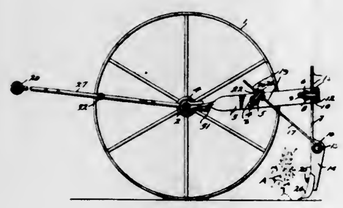
casing and disposed above and below the plane respectively of the two idle rollers, an apron traversing the idle rollers and passing before the said opening and winding upon the two main rollers, means for rotating either main roller to move the apron in one or the other direction, slotted brackets carried in the main casing on opposite sides of the latter and disposed one pair below the upper main roller and the other pair above the lower main roller, tension rollers journaled in said slotted brackets and bearing upon those portions of the apron wound on the two said main rollers, the slotted brackets providing for the movement of the axis of rotation of said tension rollers toward and away from the main rollers to provide for their increase in diameter due to the winding thereon of the apron, and arcuate leaf springs secured to the back walls of the casings and bearing upon the peripheries of the tension rollers at points diametrically opposite the main rollers to preclude too free movement of the tension rollers and to maintain them in contact with those parts of the apron on the main rollers.

1,342,284. PHONOGRAPH. HARRY GUILBERT, Provo, Utah. Filed Oct. 25, 1919. Serial No. 333,170. 5 Claims. (Cl. 181—27.)



1. A phonograph, comprising means for supporting a record, a bridge, and a tone arm supported by the free end of the bridge.

1,342,285. CULTIVATOR. ROBERT LEE GUTHRIE, Santa Rosa, Calif. Filed Nov. 29, 1919. Serial No. 341,353. 9 Claims. (Cl. 97—42.)



1. A cultivator, comprising a pair of wheels, an axle supported thereby, a pair of bracket arms pivotally connected to the axle, a pair of rods supported by the bracket arms, plow standards secured to one of said rods, connecting devices between the plow standards, and braces connected to said connecting devices and adjustably secured to the other of said rods.

1,342,286. CONNECTION BETWEEN A WATER-TUBE AND A PRESSURE-BASIN MOUNTING THE WATER-TUBE. THORVALD HEYERDAHL, Christiania, Norway. Filed Aug. 9, 1919. Serial No. 316,425. 2 Claims. (Cl. 285—22.)



1. In a connection between a water tube and a pressure basin mounting the water tube by means of a radial flange on the same in an opening in the wall of the pressure basin said opening having a considerably larger diameter than the exterior diameter of the tube.

1,342,287. DRIP-WATER SAFE. JOHN J. HICKEY, New York, N. Y. Filed Sept. 10, 1919. Serial No. 323,007. 4 Claims. (Cl. 4—35.)



1. The combination with a drip pan having a circular central depression in its center, and an outlet opening in the center of the depression, of a strainer semi-circular in form fitting one-half of the upper portion of the depression, and a perforated vertical wall at the straight edge of the strainer extending across the center of the outlet opening and conforming in shape to the contour of the depression.

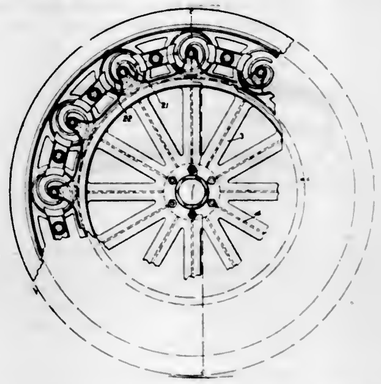
1,342,288. DRILL AND WIRE GAGE. RIHACHI ICHIBA, New York, N. Y. Filed May 24, 1919. Serial No. 299,467. 2 Claims. (Cl. 33—143.)



1. A caliper gage for directly reading lettered and numeralized sizes of drills and wires comprising, a bar graduated upon one side thereof with numeralized indexes, and graduated upon the other side thereof with lettered indexes, a slide co-acting with the graduated bar, said slide graduated upon one side thereof with numeralized indexes, and graduated upon the other side thereof with lettered indexes, so that a numeral or letter-sized cylindrical body is measured when the index on the bar is coincident with the same index on the slide, and receptive means related with the bar and slide for holding bodies to be measured.

1,342,289. RESILIENT WHEEL. ANTHONY JIMENEZ, New York, N. Y. Filed Apr. 11, 1919. Serial No. 289,316. 4 Claims. (Cl. 152—32.)

1. A resilient wheel including a rim, a body portion below such rim, such body portion being formed with circular openings, springs positioned within said openings, and clamping means extending between such openings



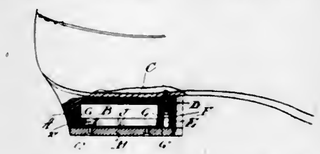
and being adapted to retain the outer ends of such springs in applied position.

1,342,290. AUTOMOBILE-BUMPER. FRANK KAMMITTER, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,034. 3 Claims. (Cl. 293—55.)



3. In a bumper, a pair of bumper supports, means for connecting said supports to a vehicle, a pair of flat main springs positioned with ends adjacent, a plurality of flat reinforcing springs adjacent said main springs, a channel adapted to include said reinforcing and main springs between its legs, means for securing said reinforcing springs, main springs and channel together, a plurality of supporting members adapted to secure each main spring to a bumper support, and spring means associated with said supports adapted to resist the deflection of said main spring during a collision.

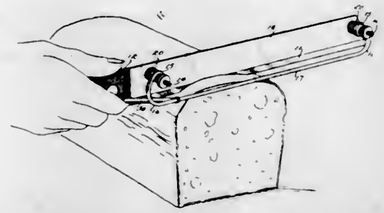
1,342,291. PROTECTED PNEUMATIC HEEL. WILLIAM EDWARD KAY, Elyria, Ohio. Filed Feb. 15, 1919. Serial No. 277,236. 9 Claims. (Cl. 36—36.)



1. The combination with a resilient heel body, said body provided with a cavity opening on the under side thereof; a metallic reinforcing band encircling the outer edge of said cavity, a metallic inner band, insertible in said reinforcing band in air tight relations therewith, and a tread plate adapted to receive the wear upon said heel, said tread plate and inner band attached together.

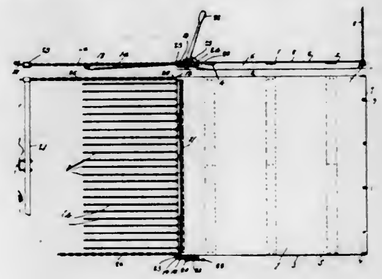
1,342,292. ADJUSTABLE AND RELEASING GUARD FOR SLICING-KNIVES. CHARLES H. KRAPF, Brooklyn, N. Y. Filed Oct. 18, 1919. Serial No. 331,623. 3 Claims. (Cl. 30—20.)

3. An adjustable slicing knife comprising in combination a handled knife blade, bolts projecting from the front face of the knife blade, a gage rod disposed parallel to the front face of the knife blade and mounted to swing from and toward the said front face of the knife blade, springs on the bolt and pressing the said gage rod to normally hold the same in innermost gaging position, and a



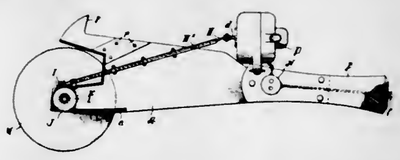
manually controlled releasing lever fulcrumed on the handle of the knife and having its forward end connected with the said gage rod to swing the latter from normal gaging position outwardly into releasing position to release a slice held between the knife blade and the gage rod.

1,342,293. HAY RAKE AND RACKER. FRANK LAKE, Miami, Ariz. Filed Sept. 9, 1916. Serial No. 119,324. 1 Claim. (Cl. 214—78.)



A hay rack comprising a platform, vertically disposed bars detachably mounted upon the platform at the rear portion thereof, a shaft journaled at the forward edge of the platform, the tines carried by the shaft, intermeshing gear wheels one of which is journaled upon the platform and the other fixed to the said shaft, a lever attached to the gear wheel which is mounted upon the platform and adapted to be used for turning the same and a pawl pivotally mounted upon the platform and engageable with the gear wheel which is journaled thereon and to which the lever is attached.

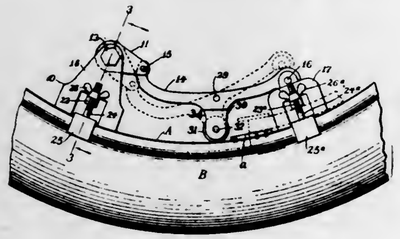
1,342,294. HAND-CONTROLLED ROTARY CUTTING IMPLEMENT. ERNEST HUBERT MADÈRE, Hahnville, La. Filed July 24, 1919. Serial No. 313,088. 7 Claims. (Cl. 30—9.)



1. An electrically operated hand controlled rotary cutting implement comprising a stripping blade, a rotary cutter journaled on said blade near the forward end thereof, a handle at the rear end of said blade, an electric motor

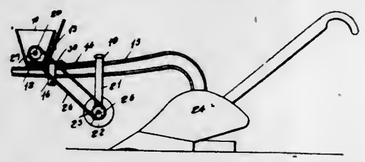
mounted on said handle, means operated by the armature shaft of said motor for driving said rotary cutter, and means for supplying said motor with electrical energy, substantially as described.

1,342,295. TOOL FOR USE IN REMOVING AND REPLACING TIRES. VERNON HENRY MANKEY, Aberdeen, S. D. Filed Sept. 25, 1918. Serial No. 255,586. 3 Claims. (Cl. 157—1.)



1. A tool for removing and replacing tires, including a clamp adapted to grip a tire rim adjacent to one end thereof, an arm swingable on said clamp, a lever pivotally connected at one end with said arm to be actuated by the swinging of the latter, a laterally disposed element on the lever between the ends thereof adapted to bear against the tire rim between the end thereof on said clamp, and a second clamp carried by the opposite end of said lever and adapted to grip the rim near the adjacent end.

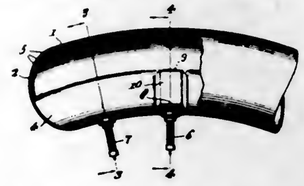
1,342,296. FERTILIZER-DISTRIBUTER. ELMER G. PERRY, Spring Hope, N. C. Filed Sept. 27, 1918. Serial No. 255,942. 1 Claim. (Cl. 275—2.)



A fertilizer attachment for plows comprising a hopper having outlets, means for connecting the hopper with a plow beam with the hopper extending transversely from the plow beam, an agitator shaft extending through the hopper and having agitator arms extending therefrom in the hopper, a sprocket wheel mounted upon the outer end portion of the shaft, a clamping bracket adapted for connection with the plow beam to the rear of the hopper and having an upstanding arm terminating in a bearing eye, a fork having an arm pivotally connected with said eye to mount the fork for vertical swinging movement, a ground wheel rotatably mounted in said fork and having an extended axle, a sprocket wheel carried by said axle, and a sprocket chain passing about the sprocket wheels of said axle and said distributer shaft whereby rotary movement will be transmitted to the distributer shaft from said ground wheel.

1,342,297. AUTOMOBILE-TIRE. ROBERT L. PRUDHOMME, Natchitoches, La. Filed Aug. 9, 1919. Serial No. 316,382. 1 Claim. (Cl. 152—22.)

An inner tube for use in pneumatic tires, comprising a continuous expansible tube, a continuous flexible partition mounted on the inside of said tube and having its opposite edges secured to and forming an air-tight joint with the opposite inner walls of said tube, whereby said tube is divided into two separate concentric annular chambers, the one exterior to the other, and said partition being crescent-shaped in cross section and having its greatest thickness midway between the edges thereof, said partition being also provided with annular grooves in the outer wall thereof to render it more flexible, with means for



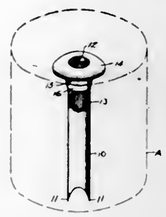
inserting air under compression into said tube at either side of said partition, as desired, whereby the thickened portion of said partition may be caused to fold inward into the inoperative position, or may be pressed outward into engagement with the inner wall of the tread portion of said tube, substantially as described.

1,342,298. WINDOW-SCREEN. DAVID O'NEILL, Woodside, N. Y. Filed Oct. 17, 1919. Serial No. 331,308. 6 Claims. (Cl. 156—39.)



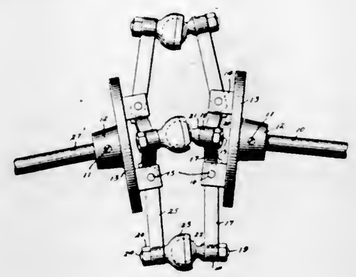
6. A screen of the roller type including a housing, a roller in the housing and a curtain wound upon the roller and extending through the housing, a strip connected with the outer end portion of the curtain, a latch plate slidably and pivotally connected with the strip, a stud having a head and a shank for engagement by the latch plate, a socket having side slots, and a pin extended through the shank of said stud when positioned in said socket, the end portions of the pin extending into the slots to slidably mount the studs and limit sliding movement thereof.

1,342,299. CAN-SPOUT. HARRY H. SHAW, Cambria, Calif. Filed Feb. 24, 1919. Serial No. 278,670. 2 Claims. (Cl. 221—23.)



1. A device adapted to be driven into a can to constitute a spout, said device including a tubular body having a front end adapted to cut its way into the can and a flange on said body at the rear end and curved outwardly and forwardly to constitute a rounded driving head adapting the device to be driven by a blow of the hand and adapted to seat on said can to limit penetration of the spout, said body having a plurality of successively enlarged swells adjacent to said head as and for the purposes specified.

1,342,300. FLEXIBLE COUPLING. JOHN CALVIN SHELER and RAYMOND BERT AUSTIN, Cadillac, Mich. Filed Nov. 19, 1919. Serial No. 339,056. 3 Claims. (Cl. 64—95.)



1. In a flexible coupling, the combination of a driving element, a driven element, a supporting plate fixed to the end of each element, a plurality of hinge members pivotally mounted at one end around the periphery of each of said supporting plates and arranged so that said hinge members correspond in pairs, and a flexible joint connecting the free ends of each pair of said hinge members.

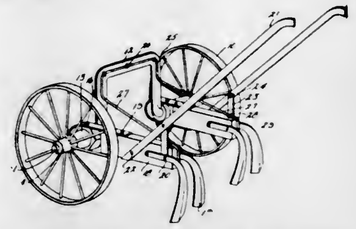
1,342,301. HANDLE FOR HANDBAGS. NATHAN SLOANE, Brooklyn, N. Y. Filed Feb. 16, 1920. Serial No. 358,818. 1 Claim. (Cl. 224—28.)



A handle for hand bags including a flexible element constituting the lower portion of the handle and adapted to be connected with a bag, and a ring thereon at the top, said element consisting of a continuous length of flexible material presenting convolutions at the approximate center thereof, and wound about the ring at a side thereof, and end portions having means to secure the same to the bag, the end portions being continued in opposite directions through said convolutions, so that the convolutions wind about said end portions as well as about the ring.

1,342,302. CULTIVATOR. HENRY C. SMITH, Clintonville, Conn., assignor of one-half to Elsie M. Smith, Richmond Hill, N. Y. Filed Jan. 13, 1920. Serial No. 351,226. 1 Claim. (Cl. 97—35.)

In a cultivator, an arched axle, a plurality of wheels rotatably mounted on said axle, a plurality of collars rotatably mounted on said axle, a plow-carrying member pivotally mounted on each collar, and resilient means for holding said members in a normal position with respect to said arched angle and to each other, said resilient means consisting of a spring mounted on said arched axle having



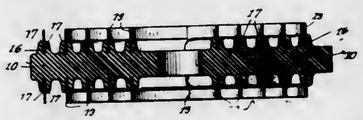
integral arms extending downwardly and rearwardly, said arms slidably engaging the rear ends of said plow members.

1,342,303. INSULATED SUPPORT FOR INDUCTANCE-COILS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Filed Aug. 9, 1917. Serial No. 185,370. 20 Claims. (Cl. 175—360.)



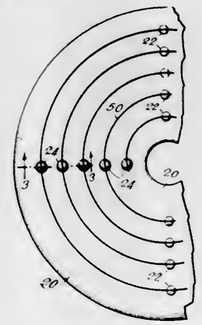
1. In a device of the kind described, a central portion of insulating material, a series of arms of insulating material radially projecting therefrom, a series of metal posts or studs partially embedded in each arm, a conducting coil mounted in the exposed ends of said posts or studs and a strip of insulating material connecting the free ends of the said projecting arms of insulating material.

1,342,304. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Filed Nov. 15, 1917. Serial No. 202,113. 7 Claims. (Cl. 175—360.)



1. In a device of the kind described, a plate or support of insulating material, a ridge or projection spiral in form, integrally connected to said support and a conducting coil mounted in the upper face of said projecting ridge.

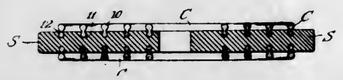
1,342,305. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Filed Nov. 15, 1917. Serial No. 202,114. 7 Claims. (Cl. 175—360.)



1. In a device of the kind described, a support of insulating material having a series of smooth-walled aper-

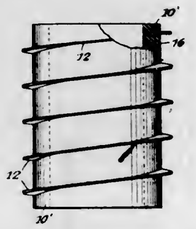
tures formed therein, a series of studs having smooth faced shanks shaped to snugly fit the apertures in said support and being adapted to be inserted in said apertures as a force fit, and an electrical conductor secured to said studs.

1,342,306. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Filed Jan. 17, 1918. Serial No. 212,324. 11 Claims. (Cl. 175—360.)



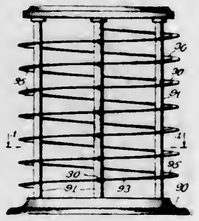
11. In a device of the kind described, an agglomerate supporting base of insulating material, a rolled wire coil of figure 8 cross section molded in said supporting base to a point of minimum cross section.

1,342,307. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Filed May 18, 1918. Serial No. 235,333. 6 Claims. (Cl. 175—360.)



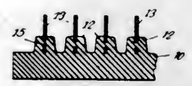
6. In a device of the kind described, a helical metallic coil molded throughout its length to the outer surface of a hollow cylindrical body of insulating material, a portion of the coil being exposed to form an electrical contact.

1,342,308. INSULATED SUPPORT FOR INDUCTANCE-COILS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Original application filed Aug. 9, 1917, Serial No. 185,370. Divided and this application filed May 18, 1918. Serial No. 235,335. 15 Claims. (Cl. 173—360.)



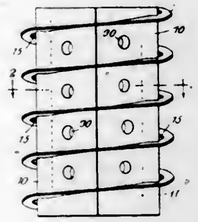
1. In a device of the class described, a support of insulating material, metallic studs having coil carrying ends, each having a supporting end molded in said support and the coil carrying end projecting beyond the surface of said support, the pins being arranged in staggered relation, and projecting from opposite surfaces of said support.

1,342,309. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER and GUY HILL, Brooklyn, N. Y. Original application filed Nov. 15, 1917, Serial No. 202,113. Divided and this application filed May 18, 1918. Serial No. 235,336. 4 Claims. (Cl. 175—360.)



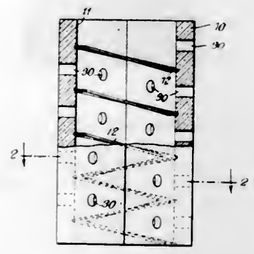
1. In a device of the kind described, a plate or support of insulating material, a series of insulating studs integral therewith and projecting from a side thereof.

1,342,310. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Feb. 1, 1919. Serial No. 274,416. 10 Claims. (Cl. 175—360.)



7. In a device of the kind described, an elongated insulating body, the horizontal cross-section of which has a plurality of angularly disposed sides, in combination with a helical conducting coil secured to the elongated body throughout its length at each of the adjacent angles.

1,342,311. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER, Brooklyn, N. Y. Original application filed Feb. 1, 1919, Serial No. 274,416. Divided and this application filed Sept. 20, 1919. Serial No. 325,161. 10 Claims. (Cl. 175—360.)

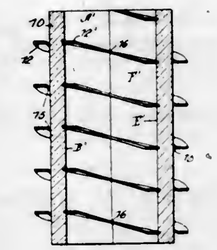


1. As an article of manufacture, a helical metallic coil secured at intervals along its length to the inner surface of a hollow elongated body of insulating material, a portion of the coil being exposed to form an electrical contact.

1,342,312. INSULATED SUPPORT FOR ELECTRICAL CONDUCTORS. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Sept. 24, 1919. Serial No. 325,949. 10 Claims. (Cl. 175—360.)

1. As an article of manufacture, an elongated hollow body of insulating material, the outer and inner walls of

which are provided respectively with flat sides extending longitudinally thereof, each side of each wall being angularly situated with respect to its adjacent side in



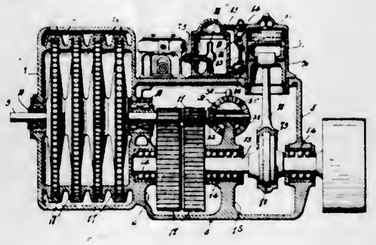
combination with helical conducting coils secured respectively to the outer wall and to the inner wall at points uniformly spaced apart, the remaining portions of the coils being exposed to form electrical contacts.

1,342,313. EASEL. JULIEN STRANDERS, Brooklyn, N. Y., assignor to Atlanta Lithographic and Printing Company, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1916. Serial No. 139,352. 3 Claims. (Cl. 211—24.)



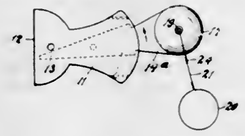
1. An easel comprising a front plate inclined to the base plane of the easel, a side standard hinged to each of the upright edges of said plate, a tongue extending rearwardly from said plate and having a slit at the two edges in contact with the side standards, a tongue on each of the side standards adapted to be arranged in the adjacent slit.

1,342,314. GAS-TURBINE. ALBERT UNDERDAHL, Cannon Falls, Minn. Filed Jan. 5, 1918. Serial No. 210,480. 5 Claims. (Cl. 60—41.)



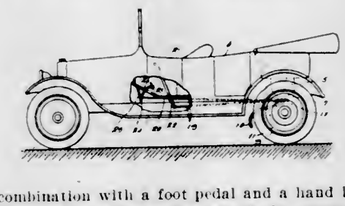
1. In an explosive engine, a housing, a rotor mounted in the housing, a cylinder having an internal combustion chamber communicating at one end with the housing, said cylinder having an inlet port therein, a ported piston arranged in the cylinder normally connecting the inlet port with the combustion chamber, and adapted to be actuated by the explosion occurring in the combustion chamber to close communication between the combustion chamber and the inlet port.

1,342,315. WHISTLE. JAMES C. WARD, Little Rock, Ark. Filed May 10, 1919. Serial No. 296,219. 10 Claims. (Cl. 46—46.)



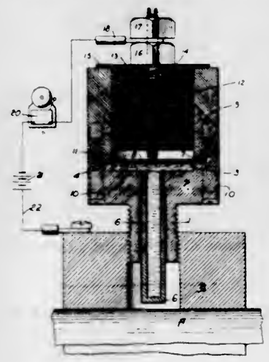
1. A whistle having separated side members having transverse orifices, and a tongue pivoted to the whistle, between said members, and adapted to be vibrated transversely across the orifices.

1,342,316. SANDING DEVICE FOR AUTOMOBILES. ALVIN P. WEISE, Detroit, Mich. Filed Mar. 31, 1916. Serial No. 88,026. 1 Claim. (Cl. 291—34.)



The combination with a foot pedal and a hand lever of an automobile, of a dispensing receptacle supported beneath the automobile and provided with a slide valve, an eye carried by the slide valve, a flexible element having one end connected with the foot pedal and its opposite end connected with the eye, a second flexible element having one end connected with the hand lever and its opposite end also connected with the eye, the valve being moved to open position upon moving either the foot pedal or hand lever forwardly, and means for returning the valve to closed position upon return of the lever or foot pedal to its normal position.

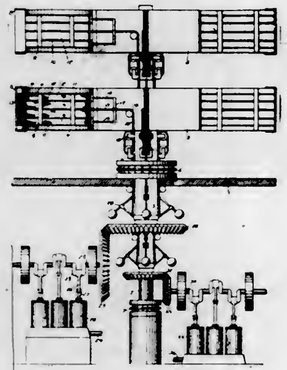
1,342,317. THERMAL CIRCUIT-CLOSER. CARL EDVIN WIREN, Brooklyn, N. Y. Filed Apr. 5, 1919. Serial No. 287,869. 2 Claims. (Cl. 200—140.)



1. A temperature registering device comprising, a base, a threaded stud formed thereon, said stud provided with

an internal bore, a tube threaded into the base and confined within the bore of the stud, expansible liquid contained within the tube, a diaphragm disposed across the base to form a liquid compartment, a head held in engagement with the base and provided with an internal bore, an insulating tube contained within the bore of the head, an insert plug fitted into the insulating tube, an insulating washer applied thereto, a contact screw threaded through the insert plug, and lock nuts provided for holding said screw in fixed position.

1,342,318. POWER-GENERATING SYSTEM. GEORGE YANACOPOULOS, New York, N. Y. Filed Feb. 20, 1919. Serial No. 278,152. 3 Claims. (Cl. 170—32.)



3. A mechanism of the character described, comprising a wind wheel formed with a plurality of blades, each of said blades being arc-shaped merging into turned over ends, a roller journaled in one of said ends, a flexible sheet member normally rolled on said roller, a spring for normally holding the roller in a given position and moving the same to position when released, and means for pulling said sheet across in front of the arc-shaped blades for varying the action of the air on the blades.

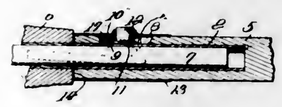
1,342,319. ATTACHMENT FOR BEARINGS. JOHN A. ANDERSON, Geneseo, Ill. Filed Apr. 12, 1919. Serial No. 289,503. 2 Claims. (Cl. 151—15.)



1. A device of the class described, comprising a bolt, a pair of nuts on said bolt, a pair of terminally abutting collars between said nuts, each of the nuts being provided in its periphery with a hook-shaped portion, a helical spring disposed about the collars having its ends hooked in opposite directions and adapted to engage said hook-shaped portions, and means for locking said nuts with the interposed collars in engagement thereby to place said spring under tension and lock said nuts against retraction on the bolt.

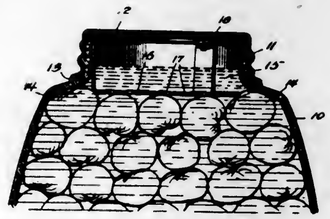
1,342,320. DETACHABLE HANDLE CONSTRUCTION FOR PARASOLS, UMBRELLAS, AND THE LIKE. WILLIAM H. BEEHLER, Baltimore, Md. Filed Oct. 26, 1917. Serial No. 198,708. 7 Claims. (Cl. 135—46.)

1. In an umbrella or the like, the combination of a wooden stick, a metal tube inserted in the end thereof and provided with a latch socket, a reinforcing ferrule about the outside of the stick and a detachable handle provided



with a protruding dowel to enter said tube and with a spring latch to engage the latch socket therein.

1,342,321. IMMERSER FOR FRUIT-JARS. ROBERT J. BELER, Sheridanville, Pa. Filed June 14, 1918, Serial No. 239,997. Renewed Oct. 31, 1919. Serial No. 334,882. 1 Claim. (Cl. 25—99.)



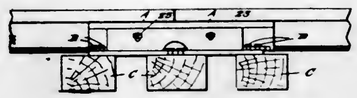
An article of manufacture, an immerser for fruit jars struck from a single sheet of metal provided with a foraminous fruit depressing plate and vertically disposed resilient centering arms extending from the periphery of said plate and adapted for contact at their upper ends with the lid of the receptacle and the neck of the receptacle.

1,342,322. FLASH-LIGHT. FRANK D. BOULANGER, West Hoboken, N. J. Filed Oct. 14, 1919. Serial No. 330,578. 9 Claims. (Cl. 240—8.5.)



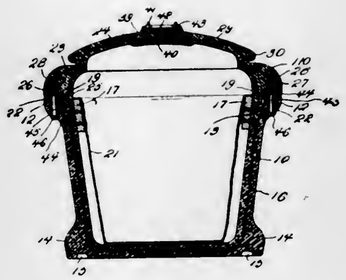
5. A flash light including in combination, an open sided battery container, a head fitting secured to said container, said head fitting having a reflector and a lens, an electric lamp, a lamp socket carrying said lamp and embodying a contact, which contact is electrically connected to said container; a battery comprising a shell of insulating material, a plurality of cells each having a plurality of poles arranged in series in said shell, said shell having an opening therein to expose a portion of one pole of one of said cells, means for holding one pole of the battery normally in engagement with one electrode of said lamp and means on said container operable to close the circuit by engaging the other pole of said battery.

1,342,323. RAIL JOINT AND BRACE. LANDON A. BUCK, Cooper, Tex. Filed Dec. 2, 1919. Serial No. 341,911. 1 Claim. (Cl. 238—207.)



A rail joint structure comprising a main supporting member including a base portion upon which the meeting ends of rail sections are disposed, a side member formed integrally upon said base portion and engaging against the webs of the rail sections, spaced lugs extending from said side member and engaging in corresponding openings formed in the webs of the rail sections, said supporting member further including a second side member spaced from the webs of the rail sections and having its inner face longitudinally tapered throughout its length, a movable wedge member disposed between said second named side member and the rail sections and having a portion engaging the rail webs and further having a flange portion engaging the tops and edges of the rail bases, a longitudinal rib formed on the lower edge of said second named side member and tapered throughout its length for conforming engagement within a groove formed in said movable member, the end portions of the base of the supporting member being provided with spike receiving holes, and the end portions of said movable member being provided with notches registering selectively with said holes for the passage of securing spikes.

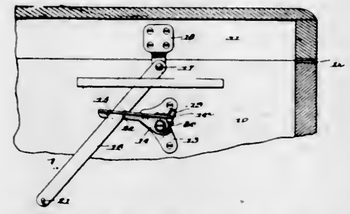
1,342,324. CASKET. LEANDER P. COOK and JEFFERSON D. SIMS, Houston, Tex. Filed Mar. 8, 1918. Serial No 221,260. 2 Claims. (Cl. 27—8.)



2. A monolithic casket including a body and a lid therefor, said lid including an upper portion and a lower portion, the upper portion being divided from the lower portion by a bead but both of the portions being integrally formed, a member arranged over the upper portion of the lid, said member having downturned ends and provided with inner spaced depressions, and substantially U-shaped springs secured in the said depressions and designed to engage with the rib of the lid.

1,342,325. LID-SUPPORTER. NICHOLAS A. DOVAS, New York, N. Y. Filed Jan. 19, 1920. Serial No. 352,298. 9 Claims. (Cl. 217—60.)

1. In a device as characterized a pair of pivoted elements, one of said elements being frictionally controlled to permit the movement of the other of said elements relatively to the first element, and means for causing the said

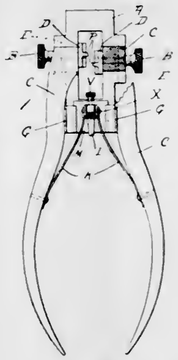


elements to interlock with each other to prevent the movement of the second element relatively to said first element.

1,342,326. COMPOSITION OF MATTER FOR SOUND-RECORDS OR THE LIKE AND PROCESS OF MAKING THE SAME. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Aug. 26, 1915. Serial No. 47,520. 16 Claims. (Cl. 106—1.5.)

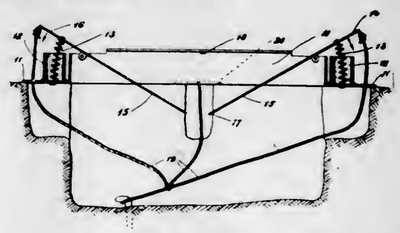
13. A composition of matter formed by a condensation of shellac.

1,342,327. SAW-SET. CLARK P. ELLIS, Conneaut Lake, Pa. Filed May 25, 1918. Serial No. 236,607. 7 Claims. (Cl. 76—69.)



1. In a saw setting tool of the character described, two movable levers, a main block carried by said levers, two opposed dies secured to said block, opposed setting points on said dies, and feeding means operating to feed the tool longitudinally of a saw between each operation of the setting points.

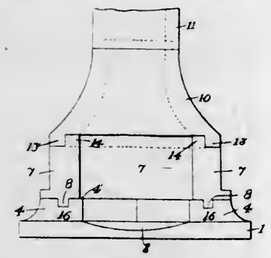
1,342,328. TRAP. ALEXANDER ENOS, Anchorage, Territory of Alaska. Filed Nov. 21, 1919. Serial No. 339,762. 5 Claims. (Cl. 43—77.)



1. A trap of the character described comprising a frame including spaced parallel sides and ends, a pair of plates

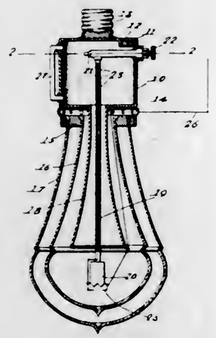
pivoted between said sides adjacent the ends of said frame, teeth formed on the adjacent edges of said plates, resilient means associated with said parts and normally holding said plates horizontally, and means for limiting the movement of said plates in one direction under the influence of said resilient means.

1,342,329. CHIMNEY. JONES LILLIE FREEMAN, Philadelphia, Pa., assignor of two-fifths to Essex H. Hendricks, Philadelphia, Pa. Filed Oct. 9, 1918. Serial No. 257,488. 1 Claim. (Cl. 72—90.)



A device of the class described comprising a base having a recess in its upper face in the front part thereof, a pair of angle base blocks having tongue and groove connection with said base, a pair of vertical side plates and a rear plate of curved form having tongue and groove connections with the base blocks and with each other, a hollow chimney section having lap joints with the upper edges of said plates, the sides of said section curving outwardly and downwardly and a second section having lap joint with the first section.
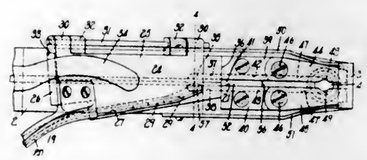
1,342,330. LAMP. RAYFIELD GEER, Columbus, Ohio. Filed Sept. 8, 1919. Serial No. 322,573. 2 Claims. (Cl. 240—1.)



1. An acetylene lamp comprising in combination a tank having a filling opening therein, a globe carried thereby, a burner positioned with said globe and connected to and communicating with the interior of the tank, a needle valve for controlling the supply of gas to the burner, and a threaded extension carried by the tank for removable engagement with the socket of a fixture or support.

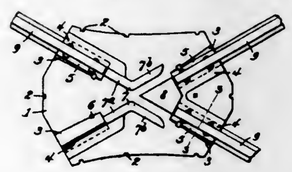
1,342,331. MACHINE FOR FEEDING CIRCULAR RIVET-CAPS AND THE LIKE. ARTHUR R. HAVENER, Wayland, Mass., assignor to Judson L. Thomson Mfg. Co., a Corporation of Massachusetts. Filed Dec. 31, 1918. Serial No. 269,069. 9 Claims. (Cl. 218—2.1.)

7. In a machine of the class described the combination of a raceway adapted to guide caps flatwise, said raceway having a pocket formed therein adapted to receive said caps on edge and allow the same to be moved to a flatwise position therein, an inclined raceway terminating at said pocket adapted to permit caps to roll therefrom into said



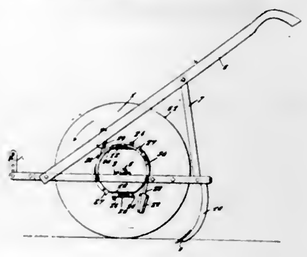
pocket, and a slide arranged to be reciprocated through said pocket to transfer said caps one at a time from positions on edge to flatwise positions and to move said caps along the first-mentioned raceway.

1,342,332. SWITCH-FROG. LOUIS HORVATH and THOMAS J. BLACKBURN, Mingo Junction, Ohio. Filed Mar. 26, 1919. Serial No. 285,215. 1 Claim. (Cl. 246—464.)



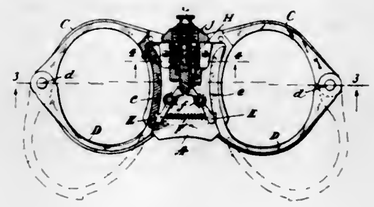
A one-piece railway frog comprising a bed-plate having angle-members formed on the top face thereof and adapted to receive rail ends thereagainst, said members being arranged in two alined pairs the projected lines of which cross each other, angular webs formed on said bedplate having portions constituting treads meeting the angle members located at one end of said bed plate, and having other portions constituting divergently inclined guards, a frog point having its outer end meeting the angle members on the opposite end of said bed plate and having its point located between and at a spaced distance from said guards, each lateral edge of said frog point being in alinement with the inner edge of the tread portion of the opposite web, said bed-plate being plain and flat and having a width approximately its length and also having the aforesaid elements rising directly from the face thereof.

1,342,333. CORN-PLANTER AND FERTILIZER-DISTRIBUTER. MCKINLEY JENNINGS, Detroit, Mich. Filed Dec. 8, 1917, Serial No. 206,211. Renewed Dec. 12, 1919. Serial No. 344,462. 6 Claims. (Cl. 221—123.)



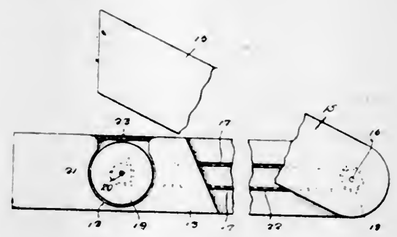
1. The combination with a revoluble container, of means revoluble with said container for collecting and elevating portions of the contents of the container, means for automatically discharging the contents of said elevating means when brought to a predetermined elevation, and means revoluble with the container for receiving the discharged contents and depositing them on the ground.

1,342,334. HANDCUFF. PAUL KRUGER, Charleston, W. Va. Filed June 28, 1919. Serial No. 307,348. 1 Claim. (Cl. 70—24.)



A hand-cuff which comprises a control body portion, containing a combination lock and fastening means adapted to be locked and unlocked thereby;—and a pair of jointed sleeves, one portion of which is rigidly secured to said body portion and the other portion of which is swingingly pivoted to said rigid portion;—said fastening means comprising a pair of spring-controlled locking fingers and a barbed, sliding pin controlled by said combination lock and adapted to operate said locking fingers to release said sleeves when occasion requires.

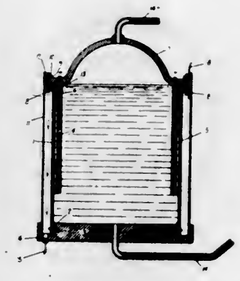
1,342,335. ANGLE-INDICATOR. MATT LUOMA, Astoria, Oreg. Filed July 3, 1919. Serial No. 308,574. 1 Claim. (Cl. 33—88.)



A device of the character described comprising an elongated body provided throughout its major portion with a longitudinal recess and provided at a point spaced from the closed end of said recess with a second recess, said body being provided at one side of said recesses with a longitudinally extending groove, a blade pivoted within the open end of said first named recess, a disk pivoted within said second named recess and having its periphery graduated in degrees, an indicator extending across the open edge of said second named recess and coöperating with the graduations on said disk, a toothed wheel rotatable with said blade and disposed within one end of said groove, a toothed wheel rotatable with said disk and disposed within the other end of said groove, and a chain extending through said groove and trained about both of said toothed wheels whereby upon movement of said blade said disk will be correspondingly moved.

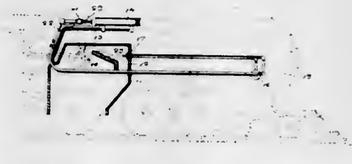
1,342,336. ELECTROLYTIC CELL. PAUL MCDORMAN, Niagara Falls, N. Y., assignor to The Electro-Chemical Company, Dayton, Ohio, a Corporation of Ohio. Filed June 19, 1919. Serial No. 305,241. 6 Claims. (Cl. 204—58.)

1. In an electrolytic cell, the combination with a base member, of a hollow cathode mounted thereon, an anode within said cathode above the base, a porous diaphragm between said anode and cathode, a head for said cell, and



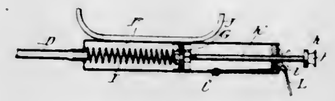
gasket means between said head and the anode and cathode, to thoroughly seal said cell against the escape of chlorin and the admission of air.

1,342,337. FUEL-ECONOMIZER. JAMES PATRICK MCMAHON, Atlanta, Ga. Filed Aug. 31, 1918. Serial No. 252,278. 1 Claim. (Cl. 110—22.)



In a fire-box an angular baffle dividing the fire-box into a primary combustion chamber and a secondary combustion chamber, the upper portion of said baffle being inclined upward over said primary combustion chamber, a nozzle extending into said secondary combustion chamber and arranged to discharge fluid fuel against the inclined portion of the baffle in a direction opposite to the flow of the products from the primary combustion chamber.

1,342,338. CONTROLLING DEVICE. FRED F. MAIN, Chicago, Ill., assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed June 26, 1914. Serial No. 847,386. 1 Claim. (Cl. 230—27.)

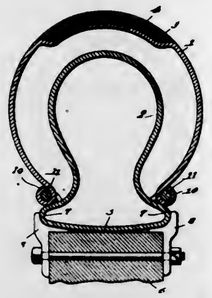


A controlling device comprising a cylinder adapted to be grasped by the hand, a spring pressed piston in said cylinder having a portion extending from the cylinder, a thumb operable shouldered actuating key or member on the outer end of said extending portion, and a resilient locking member secured to said cylinder and having a portion adapted to automatically spring over the shoulder of the actuating key or member when the latter is depressed against the action of the spring to thereby lock the piston in its depressed position, substantially as described.

1,342,339. AUTOMOBILE-TIRE. GEORGE GUY MARTIN, East St. Louis, Ill. Filed Nov. 22, 1919. Serial No. 339,787. 3 Claims. (Cl. 152—8.)

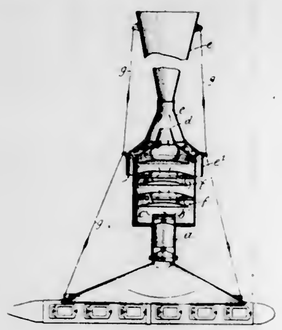
3. A tire of the class described comprising an inner member formed of metal and provided with a slightly

curved bottom and outwardly extending walls adjacent said bottom forming beads, an outer member formed of



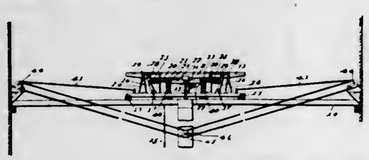
spring metal, means for hinging the edges of said outer member to the beads and a tread of sound deadening material carried by said outer member.

1,342,340. EXHAUST-SILENCER FOR INTERNAL-COMBUSTION ENGINES. WILLIAM HAMILTON MARTIN, Flushing, Netherlands. Filed Nov. 5, 1919. Serial No. 335,858. 4 Claims. (Cl. 137—160.)



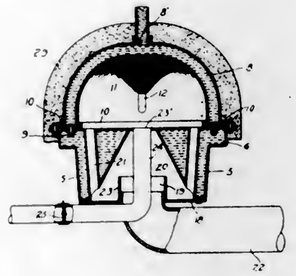
1. An exhaust silencer comprising a casing contracted at one end to form a sharply converging discharge nozzle, an unobstructed converging and diverging combining tube the converging portion whereof forms with the nozzle aforesaid an annular duct to which air has access uniformly around the casing, and valve means of large area at the end of the casing opposite to the nozzle adapted to open automatically to an extent to suit the volume of gases being exhausted and thereby maintain the velocity of the latter substantially constant.

1,342,341. HAY-CARRIAGE. JOHN G. MAYER, Milwaukee, Wis. Filed Sept. 5, 1919. Serial No. 321,737. 3 Claims. (Cl. 193—53.)



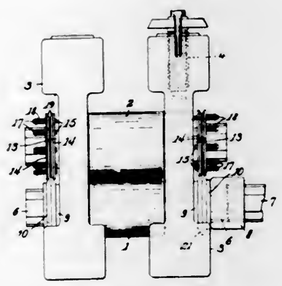
1. A hay carriage comprising a wheeled frame, a platform, pivoted members mounted upon the frame in pairs at the opposite ends of the frame, each of said members having a notch, a stud projecting from the platform and received within said notches and providing a pivotal connection with said platform, means for holding said pivoted members in engagement with said studs whereby the platform is normally held horizontally, and means for tripping said members in pairs, whereby the platform may be tilted from either side of the frame.

1,342,342. GAS-HEATED BOILER. THOMAS M. MAYER, Brooklyn, N. Y., assignor to Edward T. Curran, Brooklyn, N. Y. Filed Nov. 19, 1917. Serial No. 202,828. 5 Claims. (Cl. 122—115.)



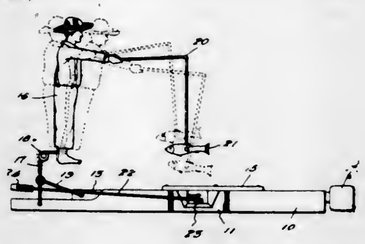
1. A boiler comprising a water carrying base having a water inlet; a dome shaped water jacket connected in water circulation with the base to provide a combustion chamber between the base and the jacket; a water outlet in the top of said jacket; a gas burner within the combustion chamber; a cone shaped opening through the base and connected to a flue; a series of passages through the base leading to said opening for the passage of the products of combustion through the opening to the flue; baffles between said opening and the flue; and an air inlet pipe to the combustion chamber extending through the opening in the base for the purpose specified.

1,342,343. FRICTION-DRIVE FOR THE TOP ROLLS OF ROLLING-MILLS. JULIAN EARL MONTGOMERY, Wheeling, W. Va. Filed Sept. 5, 1919. Serial No. 321,874. 7 Claims. (Cl. 80—54.)



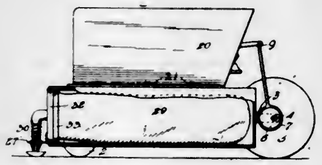
1. A friction drive and balance for the adjustable top roll of a rolling mill, comprising, in combination with the rolls of such mill, a driving disk carried by the bottom roll, a pair of relatively movable members carried by said top roll in overlying relation to said driving disk, and resilient means whereby said members are maintained in such relation to each other that they seat upon said driving disk for balancing said top roll.

1,342,344. TOY. DAVID D. MOORE, Enfield, Va. Filed Feb. 6, 1920. Serial No. 356,590. 5 Claims. (Cl. 46—40.)



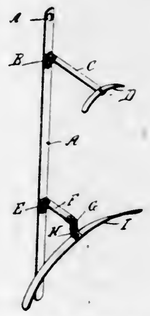
1. A toy embodying a base, a figure pivotally connected thereto, a plunger movable longitudinally of the base and connected to the figure, whereby the latter may be moved upon its pivot, a rod carried by the figure and a fish secured to one end of the rod, whereby when the plunger is operated the figure will be moved to simulate the act of fishing.

1,342,345. PORTABLE SUCTION CLEANING-MACHINE. DAVID P. MOORE and SAMUEL B. PACK, Washington, D. C., assignors, by direct and mesne assignments, to Packmore Manufacturing Company, a Corporation of Delaware. Filed Jan. 31, 1910. Serial No. 541,094. 2 Claims. (Cl. 15—60.)



2. A portable suction cleaning machine, comprising a casing open at one end, means for causing a suction of air through the casing, a nozzle adapted to move in close engagement with the surface being cleaned, a frame by which the nozzle is carried arranged to close the open end of the casing practically air tight and separable therefrom, means for securing the nozzle to the casing, an open frame adapted to fit closely the inner wall of the casing near its open end and to be itself closed by the frame that carries the nozzle, and a filter bag secured to the said open frame, the open frame being removable from the casing and carrying with it the filter bag when the nozzle-supporting frame is separated from the casing.

1,342,346. COMBINED COAT AND HAT HANGER. WALTER B. MURTHA, New York, N. Y. Filed Oct. 8, 1919. Serial No. 329,234. 3 Claims. (Cl. 45—13.)



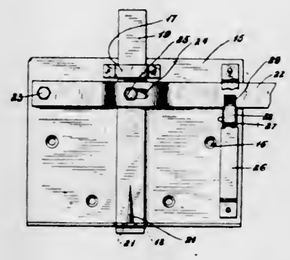
1. In a device of the character described a main supporting member, an angle bracket pivotally secured thereto, a bar normally extending transversely to said main member and pivotally secured to said bracket at one end, and a garment supporting member pivotally supported on the other end of said transverse bar.

1,342,347. WINDSHIELD-SHADE. ARCHIE L. NASH, East Spencer, N. C. Filed May 24, 1919. Serial No. 299,444. 1 Claim. ((Cl. 296—97.)



In a glare-shade for windshields, a shade-roller carrying a device for slidingly mounting it on the top-bar of the wind-shield, a shade member adapted to wind upon the roller, and means for detachably and adjustably connecting the lower end of the shade to the lower edge of the windshield, so that the shade member may be securely fastened at both ends at any point across the windshield, said means consisting of a clamp embracing the lower edge of the windshield and adapted to be secured at any point along the same, and a hook carried by the lower end of the shade member adapted to be detachably connected to said clamp, whereby the shade member may be rolled up without disconnecting the clamp from the windshield.

1,342,348. BAG-HOLDER. FLOYD M. NEFF and WARD B. RUNNER, Prattsburg, N. Y. Filed Sept. 13, 1919. Serial No. 323,551. 2 Claims. (Cl. 83—26.)

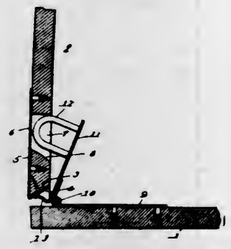


1. In combination with a discharge spout having prongs thereon adapted for engagement by a sack, a plate secured upon said spout and L-shaped with its horizontal flange at its lower end, a vertical L-shaped bar guidably mounted for slidable movement over the face of said plate, the lower flange of the plate having an opening through which said bar passes, a prong extending upwardly from the lower end of said bar and adapted for engagement by a sack, a flange of said plate having a hole for the passage of said prong, a lever movable over said plate and pivotally connected therewith at one end and having slot and pin connection with said vertical bar, and means for retaining said lever in elevated position with said spring extending above said flange.

1,342,360. COMBINED CEMENT. KARL L. TORNO, Berkeley, Calif., assignor of one-half to Frank R. Sweasey, San Francisco, Calif. Filed Mar. 26, 1918. Serial No. 224,788. 8 Claims. (Cl. 106—25.)

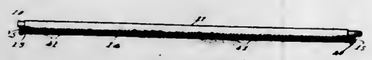
1. A cement comprising Portland cement and dehydrated calcium sulfate and potassium sulfate combined substantially as herein described.

1,342,361. DOOR-HASP. PAUL VEITH, San Francisco, Calif. Filed Nov. 29, 1919. Serial No. 341,348. 2 Claims. (Cl. 292—281.)



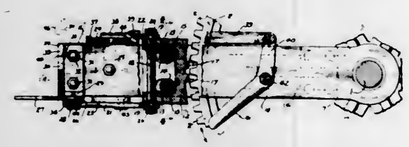
1. In combination with a swinging member, an abutment therefor and said abutment having an opening therethrough, of a hasp including a plate fixed to the inner face of the swinging member, a second plate hingedly connected to the fixed plate, a bail on the last mentioned plate, and a contact member on the last mentioned plate at its hinged connection with the fixed plate, and said contact member adapted to engage with the outer end of the abutment member when the swinging member is closed thereon, to cause the hinged member of the hasp to be brought against the inner face of the abutment member and the bail to be projected through the opening in the said abutment.

1,342,362. CLAMP. ANGELICA WAELTY, South San Francisco, Calif. Filed Jan. 25, 1919. Serial No. 273,066. 2 Claims. (Cl. 68—10.)



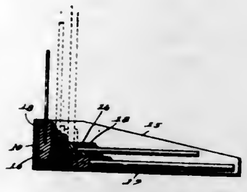
1. The combination with an ironing board, of a base bar secured along the longitudinal center and upon the under side of the board, a cover bar hingedly secured to and spaced from one end of the base bar, fastening means located at the other end of the bars and pointed elements struck up from the base bar and contacting with the cover bar.

1,342,363. GEAR-CLUTCH FOR BENDING-MACHINES. PHILIP B. WALLACE, Burlingame, and FRANK H. FOX, San Francisco, Calif. Filed Feb. 5, 1919. Serial No. 275,168. 7 Claims. (Cl. 74—46.)



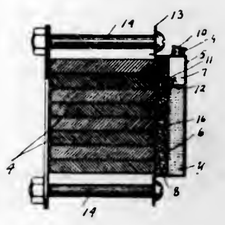
1. An apparatus of the class described comprising two connected members mounted for pivotal movement, a clutch slidably mounted between said members, a gear rotatable between said members, the clutch having toothed portions adapted to engage between the teeth of said gear, means to shift and hold the clutch in engagement with the gear whereby the pivoted members will move with the gear, and means to automatically disengage said shifting and holding means.

1,342,364. IMPLEMENT-HOLDING DEVICE. EDWARD WIKSTROM, Lowell, Mass. Filed June 21, 1919. Serial No. 305,742. 1 Claim. (Cl. 211—14.)



In a device of the class described, a casing including a rear wall, a bottom wall, and side walls, the side walls being provided with slots parallelly arranged, a plurality of adjustable bars mounted in the casing and extending transversely thereof between the side elements and normally lying in parallel planes, each of the bars being provided with apertures for receiving tools and implements, and screws passing through the slots of the side walls and into the ends of the bars, the heads of the screws engaging the surface of the side walls and positively retaining the bars, said bars carrying designations on one surface, and the relative length of the slots permitting the bars to be shifted in their normal planes for exposing to view the aforesaid designations.

1,342,365. SPRING-OILER. HERBERT A. WIMPERIS, Minneapolis, Minn. Filed June 17, 1918. Serial No. 240,341. 1 Claim. (Cl. 184—1.)

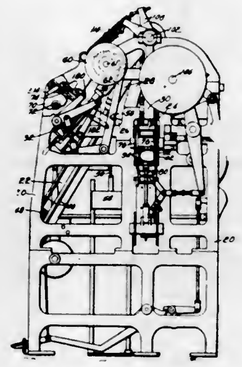


The combination with a multiple leaf spring, of a device comprising an oil well having means for clamping the same to one side of said spring, said well having an oil delivery port located above its oil level, an oil distributing pad clamped between the side of the spring and the adjacent side of said well and covering said port, and a deflecting lip projecting into the well from the lower edge of said port.

1,342,366. HEEL-BUILDING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 10, 1918. Serial No. 239,125. 28 Claims. (Cl. 12—30.)

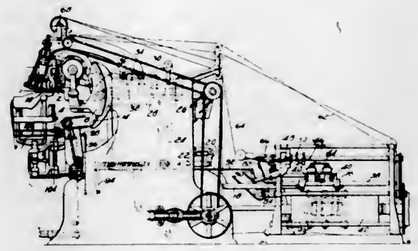
1. A heel-building machine having, in combination, a support upon which a heel-pile is built, means for superposing thereon a plurality of lifts of unknown thickness, means for measuring the height of a partially built heel-pile including said lifts, and means controlled by said measuring means for subsequently superposing thereon lifts of known thickness to produce a heel-pile of predetermined height.

22. A heel-building machine having, in combination, a series of lift magazines, a support upon which a heel-pile is built, means for removing lifts from said magazines and



assembling them on said support to form a heel-pile, and means for measuring the height of said heel-pile during the process of building.

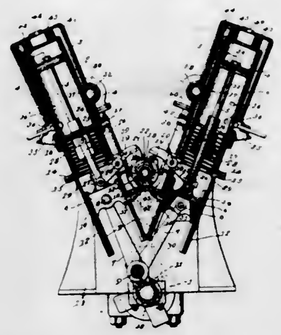
1,342,367. AUTOMATIC SEWING-MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 14, 1917. Serial No. 191,328. Renewed Oct. 2, 1919. Serial No. 328,083. 13 Claims. (Cl. 12—17.)



1. An automatic machine, having, in combination, operating means and a work support relatively movable to transfer the point of operation along the work, mechanism for varying the angular relation of the operating means and work, a feeler acting along a contour of the work for controlling said mechanism to regulate the angular relation in accordance with the contour, and additional means for effecting a change in said angular relation not indicated by the feeler.

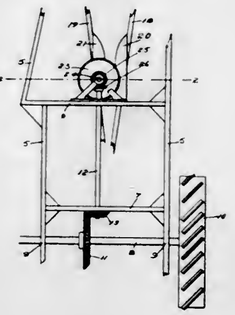
1,342,368. INTERNAL-COMBUSTION ENGINE. MICHAEL WOICULA, Detroit, Mich. Filed Nov. 14, 1919. Serial No. 337,974. 5 Claims. (Cl. 123—66.)

1. In an internal combustion engine, a cylinder, a reciprocatory power piston therein, a sliding cross head, a crank shaft to which said cross head is connected, a piston rod connecting said cross head with the power piston, an auxiliary piston in said cylinder, and means whereby said auxiliary piston is actuated from the crank shaft independently of the power piston to inspire a charge, the cylinder having a by-pass arranged to be over-run by the power piston to permit the charge compressed between the



two pistons to flow into the explosion chamber and spring means for causing the auxiliary piston to move toward the power piston to force the charge through the by-pass.

1,342,369. SICKLE. ROBERT RAY ZAHNTER, Kansas City, Mo. Filed Aug. 20, 1919. Serial No. 318,811. 1 Claim. (Cl. 56—102.)



In a harvesting machine, a frame, relatively long guide fingers extending from the forward portion of the frame and converging toward the frame, in combination with stationary cutting blades supported adjacent the inner extremities of the guiding fingers, a rotary knife supported directly above the stationary cutting blades in close proximity thereto, said rotary knife operating in a circle whose center is located to one side of the cutting edges of the stationary cutting blades, and means for operating the rotary knife.

1,342,370. SAFETY-RAZOR. AUGUSTUS HAGER BRYANT, Glen Ridge, N. J. Filed Sept. 19, 1919. Serial No. 324,942. 11 Claims. (Cl. 30—12.)



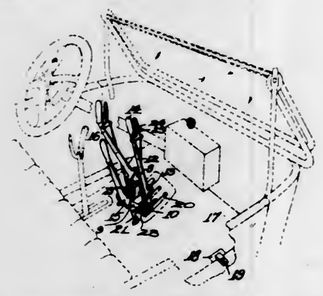
1. A safety razor head comprising a bottom plate adapted to receive a blade having a reinforced back, said plate being formed with a pair of side stops against which the reinforced back of the blade contacts, a top plate pivotally connected with the bottom plate, a spring for holding closed the top plate, and a pair of spaced coiled spring arms integral with the top plate positioned to engage and press said blade against said stops.

1,342,371. CHICKEN-COOP. ALSTON G. CAMPBELL, Volga, W. Va. Filed Aug. 5, 1918. Serial No. 248,370. 1 Claim. (Cl. 119—19.)



A chicken coop including a pair of inclined and rectangular side walls each having an opening therein, a pair of end walls of triangular outline with the apex of each rounded, hinge connections between the side and end walls, said ends having openings therein, and a roof consisting of an inverted trough overlapping the upper edges of the side walls and having semi-diskal ends overlapping the rounded apexes of the end walls, and hinge connections between the roof and one of the side walls.

1,342,372. ATTACHMENT FOR AUTOMOBILE-CONTROLLING PEDALS. JOHN C. CARMODY, Fitchburg, Mass. Filed July 10, 1919. Serial No. 309,979. 2 Claims. (Cl. 74—39.)



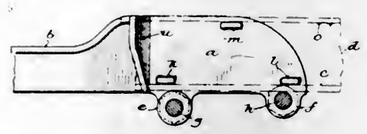
1. The combination with an automobile control pedal, of a plate having a lower surface fitting the upper surface of the pedal and rigidly secured to it, a handle rigidly connected with said plate and located materially above it for manipulating the pedal, a stationary ratchet adjacent to the pedal, a pawl pivoted to the pedal for coöperation with the ratchet and means connected with the handle for operating the pawl.

1,342,373. CEMENT-BLOCK MOLD. FRANK CREASON, Richmond, Mo., assignor of one-half to W. A. Mullin. Filed July 10, 1919. Serial No. 309,809. 5 Claims. (Cl. 25—121.)



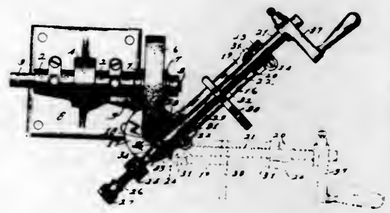
3. In a cement block mold, a plurality of parallel longitudinal side forming members formed of sheet metal stamped to provide said members with longitudinal ribs, the outermost of said side members having ribs on their inner sides only and having transverse bars on their outer sides spanning their inwardly stamped rib-forming portions, said bars having openings and said side members being formed with openings alined therewith, transverse end members extending between said side members and having notches in their ends receiving said ribs, and tie bolts passing through the aforesaid openings of said side members and said bars.

1,342,374. BUMPER-BRACKET. GRANT F. DISCHER, Milwaukee, Wis. Filed Mar. 20, 1920. Serial No. 367,406. 14 Claims. (Cl. 293—55.)



10. In a bumper bracket for automobiles having inwardly and outwardly projecting longitudinal frame flanges, the combination of an attachment plate provided at one end with a bumper supporting arm and formed with bolt holes and with inwardly projecting positioning bearings adapted to engage with opposite faces of outwardly projecting frame flanges against which the plate is seated, hook bolts adapted to pass through the holes in the plate and engage with an inwardly projecting frame flange, and nuts threaded on the outer ends of the bolts.

1,342,375. VALVE-GRINDER. DELBERT F. DUNHAM, Los Angeles, Calif. Filed Mar. 24, 1919. Serial No. 286,166. 5 Claims. (Cl. 51—4.)



1. A valve grinding mechanism comprising a valve cutting element, a carriage for supporting a valve in position for cutting, a valve carried thereby, an adjusting screw for moving said valve longitudinally of said carriage, and a swivel on the end of said screw for engagement with said valve, whereby said valve may be held against the face of the grinding element.

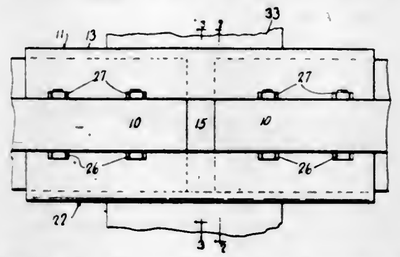
1,342,376. ARTIFICIAL TOOTH. SAMUEL EARP, Wallasey, England. Filed Sept. 20, 1917. Serial No. 192,370. 2 Claims. (Cl. 32—9.)



1. As an article of manufacture, a full contour porcelain crown artificial tooth having a conical cavity extending from its base to its incisal edge, a post in said cavity secured directly to the tooth in its incisal edge, a conical metal sleeve at the integral junction of the post with the incisal edge of the tooth, and a filling of vulcanite of truncated conical internal and external form filling the remainder of said cavity.

1,342,377. RAIL-JOINT. LOUISZ EIBNER, Wellington, Ohio. Filed Feb. 27, 1920. Serial No. 361,748. 3 Claims. (Cl. 238—226.)

1. In combination with the confronting ends of two rails, and a tie which underlies the rails; of a chair comprising two sections each of an angle formation and including a straight base on which the rails rest and which base is of a less width than one-half the width of the rail base, said base portions being centrally provided with extensions which abut, said extensions having registering notches which form a pocket, and a key seated in the pocket.

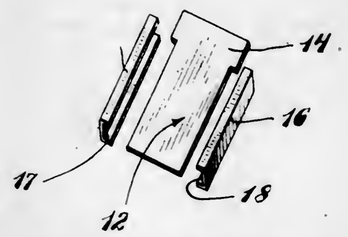


1,342,378. ELECTROLYTIC CELL. JOHN GERSTLE, Dayton, Ohio, assignor to The Electro Chemical Company, Dayton, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,672. 11 Claims. (Cl. 204—5.)



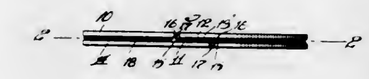
3. In an electrolytic cell, separate chambers therein for forming chlorin and caustic soda, and a chamber that is a part of said cell separate and distinct from the first named chambers for mixing the chlorin and caustic soda at the rate at which they are formed and out of contact with the electrodes.

1,342,379. TOOTH HAVING AN INTERCHANGEABLE FACING. FRANK C. GOODWIN, Portsmouth, Ohio. Filed Oct. 18, 1919. Serial No. 331,524. 3 Claims. (Cl. 32—9.)



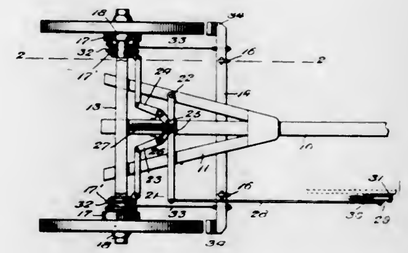
1. The combination with a facing element for a tooth, of a backing element comprising a plate, inturned flanged portions on opposite edges of the plate, and means for securing the flanged portions to the facing element.

1,342,380. PISTON-RING. FREDERICK HACHMANN, St. Louis, Mo., assignor of one-half to Herman C. Stifel, St. Louis, Mo., one-eighth to David M. Hutchinson, Ferguson, Mo., and one-sixteenth to Philip E. Moody, one-sixteenth to Chauncey R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Filed Feb. 26, 1919. Serial No. 279,238. 2 Claims. (Cl. 74—169.)



2. A split piston ring having a groove cut in its outer surface, said groove being of less circumference than the outside circumference of the piston ring thereby leaving both ends adjacent the split formed in the piston ring closed, and a ring adapted to be sprung into said recess, said ring being of smaller diameter than the outside surface of the piston ring and of larger diameter than the inside surface of the groove, so that the ring may move longitudinally and vertically in said recess without coming in contact with the cylinder wall.

1,342,381. WAGON-BRAKE. EDWARD B. HARRIS, Hillsboro, Oreg. Filed June 23, 1919. Serial No. 305,950. 2 Claims. (Cl. 188—140.)



2. A wagon brake comprising clutch members fixed to the wheels of the wagon for rotation therewith, coöperating clutch members slidably mounted upon the axle of said wheel, a lever pivoted at one end, a connection between the lever and the sliding clutch members whereby movement of said clutch members is controlled by said lever, a hand operating lever, a connection between the latter mentioned lever and the clutch controlling lever, whereby the latter mentioned lever is normally maintained in position to hold the clutch members separated, yieldable means operable to automatically move the lever to an active position and to throw the clutch members into operative association, and a connection between the sliding clutch members and the brakes, whereby the latter are effectively applied when said clutch members are operatively associated.

1,342,382. COMBINATION BAYONET AND WIRE-CUTTER. JOHN HMIRAK, New York, N. Y. Filed Feb. 18, 1919. Serial No. 277,704. 2 Claims. (Cl. 42—90.)

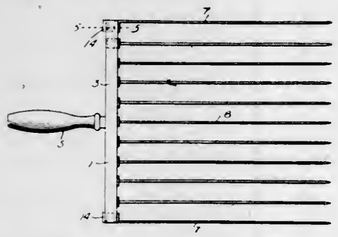
1. A bayonet blade with cutting edges having a slot formed therein with its mouth at one edge thereof, the

inner wall of said slot being serrated, cutter rollers rotatably mounted at the opposite sides of said slot adja-



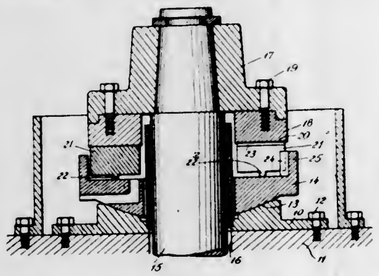
cent to the inner end thereof and immediately in advance of said end and having opposed cutting peripheries.

1,342,383. BREAD-KNIFE. STEVEN F. HORVÁTH, Buffalo, N. Y. Filed Feb. 21, 1920. Serial No. 360,285. 2 Claims. (Cl. 146—12.)



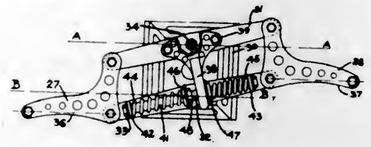
2. The combination in a multiple-blade knife, of a body having a back wall and opposed flanges spaced from said back wall, said body being open at its end, a blade having a lateral lug disposed in the open end of the body and also having notches receiving the body flanges and a flange lapped against the rear side of the body, and a screw extending through said flange, the back wall of the body and the lug and detachably connecting the side blade to the body.

1,342,384. THRUST-BEARING. HARRY A. S. HOWARTH, Pittsburgh, Pa., assignor to Albert Kingsbury, Pittsburgh, Pa. Filed Nov. 14, 1917. Serial No. 201,914. 15 Claims. (Cl. 64—25.)



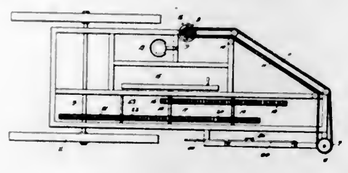
1. A thrust bearing comprising a plurality of bearing shoes having thrust bearing surfaces, longitudinally extending knife edge supports therefor, and means for establishing automatic lubrication at said bearing surfaces.

1,342,385. STEERING DEVICE. JAMES M. H. JACOBS, Dayton, Ohio, assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 1, 1917. Serial No. 189,244. 8 Claims. (Cl. 244—29.)



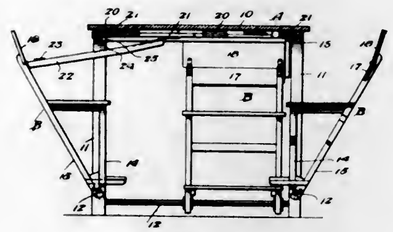
6. In an airplane, the combination with a rudder; of a controlling device therefor, comprising a support; a steering bar pivotally mounted thereon; an auxiliary steering bar pivotally mounted on said support; and foot plates connecting the corresponding ends of the two said bars.

1,342,386. PLOW CONSTRUCTION. WALENTY KALICKI, Grafton, Ohio. Filed Sept. 29, 1919. Serial No. 327,049. 1 Claim. (Cl. 208—114.)



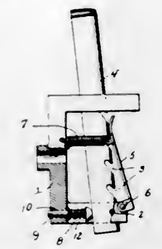
In a plow structure including a wheeled frame and a dirigible wheel, means for steering the device comprising a sprocket secured upon the upper end of the journal of the dirigible wheel, a second sprocket secured upon the shaft of a hand wheel located at one side of the frame, both of said sprockets being in the same horizontal plane, guide rollers journaled upon one side of the frame and arranged in pairs, one pair being adjacent the dirigible wheel and the other pair adjacent the steering wheel, and a chain trained about said sprockets and engaging said rollers whereby upon rotation of the hand wheel said dirigible wheel will be correspondingly moved, the position of the hand wheel at one side of the frame leaving one hand of the operator free during turning of the hand wheel.

1,342,387. COMBINED TABLE AND SEAT. WACLAW KORNASZEWSKI, Detroit, Mich. Filed Jan. 2, 1920. Serial No. 348,744. 5 Claims. (Cl. 45—31.)



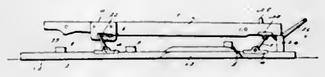
1. In combination, a table including pairs of supporting legs, a rung connecting each pair of supporting legs, a chair pivotally mounted upon said rung and adapted to swing beneath the table to a folded position or beyond the table to a position for use, means for locking the chair in folded position, and means operable upon release of said chair from the locking means for automatically moving the chair to an extended position for use.

1,342,388. MOTORCYCLE BACK-REST. CHARLES KUDERER, Pittsburgh, Pa. Filed Feb. 8, 1919. Serial No. 275,827. 1 Claim. (Cl. 208—138.)



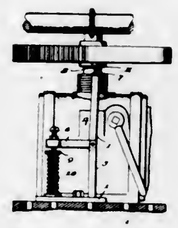
In a device of the character described, a bracket having upper and lower horizontally disposed arms, a rod extending through said arms and provided in its outer edge with a plurality of downwardly and outwardly inclined notches, a pin extending transversely of the lower arm and adapted to fit into any one of said notches for adjustably and rockably supporting the rod, means in contact with the outer edge of the rod remote from and above the pin for forcing said rod inwardly of the bracket about said pin, a plunger slidable in the bight portion of the bracket and provided on its inner end with a frusto-spherical head, and means for forcing said plunger inwardly of the bracket so as to hold said head in contact with the inner edge of the rod, the line of contact between the rod and head being in the plane of the axis of the pin.

1,342,389. JACK. JAKE J. KUNTZ, Oakville, Iowa. Filed Mar. 24, 1919. Serial No. 284,547. 2 Claims. (Cl. 254—91.)



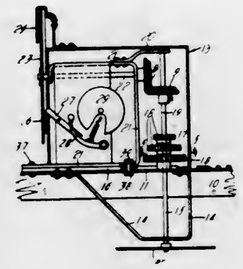
1. A jack for automobiles comprising a frame, front and rear crank members journaled in said frame, a carrier for engaging the front and rear axles of the automobile, journals at the front end of said carrier for receiving the front crank member, slotted brackets at the rear of the carrier for receiving the rear crank member, cross pieces on the frames for holding the carrier in inclined position and a stop for engaging the front end of the carrier to limit the forward and upward movement of the same.

1,342,390. BRACE FOR MILLING-MACHINES. JAMES C. LAWRENCE, West Asheville, N. C. Filed June 17, 1919. Serial No. 304,864. 2 Claims. (Cl. 90—59.)



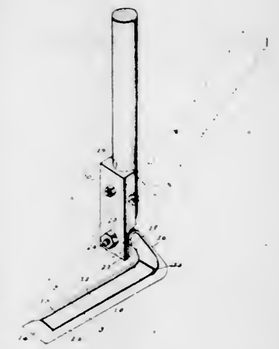
1. A brace for milling machines comprising a base, an upright rising therefrom, a vibrating rod pivotally mounted in the upright and having an end adjustable to an adjacent article and spring means for holding said upright rod offset from the vertical.

1,342,391. LENGTH-INDICATOR FOR BALING-MACHINES AND THE LIKE. ROY M. MOWRY, Los Angeles, Calif. Filed Apr. 16, 1919. Serial No. 290,368. 8 Claims. (Cl. 116—31.)



1. An indicator mechanism of the character described, embodying a frame adapted to be movably mounted on a baling chamber or the like, a tracker wheel carried thereby, an indicator mounted on the movable frame, connection means whereby the tracker wheel drives the indicator; and means moving the frame and the mechanism mounted thereon as a unit to move and hold the tracker wheel in engagement with a bale in the baling chamber.

1,342,392. GARDEN-TOOL. OLOF H. OLEEN, Columbia City, Oreg. Filed Apr. 26, 1919. Serial No. 292,871. Renewed Apr. 24, 1920. Serial No. 376,424. 1 Claim. (Cl. 287—19.)

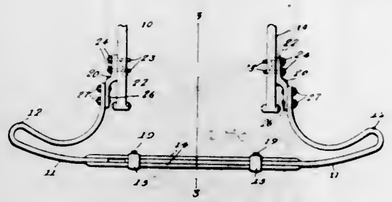


In a tool of the character described, an elongated blade having at one end a shank extended upwardly and forwardly, and terminating to provide a depending vertically disposed lug, a handle, a vertically disposed plate having a groove arranged at one side for the reception of said handle, means for securing the handle within the groove, said plate having a reduced extremity arranged parallel with said depending lug bearing against the latter, and a bolt passed through said reduced extremity and lug and pivotally associating said plate with the lug whereby the handle can be swung into different angular positions with respect to the blade, and a nut carried by said bolt and holding said handle fixed in a given position when tightened.

1,342,393. AUTOMOBILE-BUMPER. PERRY D. READ, Norfolk, Va. Filed Dec. 27, 1919. Serial No. 347,730. 5 Claims. (Cl. 293—55.)

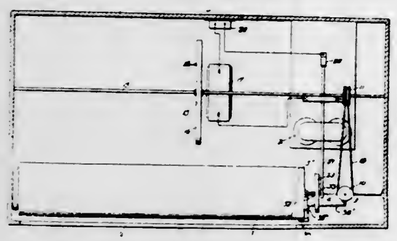
3. The combination with a bumper for motor vehicles, of means for securing the same to the vehicle frame, said

means comprising a clamp engageable with the outer face of the frame, hooks carried by the clamp and engaging the frame and bolts passing through alined openings in



the bumper end and through openings in the clamp, said openings including a slot disposed transversely of the clamp to permit of vertical adjustment of the bumper.

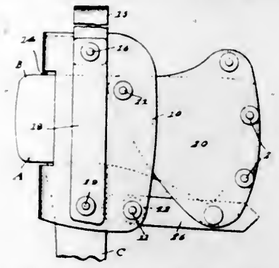
1,342,394. STREET-INDICATOR. S. DENVER ROBERSON, St. Louis, Mo. Filed Aug. 26, 1919. Serial No. 319,859. 1 Claim. (Cl. 40—53.)



A device of the class described comprising a casing, a pair of rollers journaled therein, a strip connected with said rollers and containing indicia adapted to appear in said opening, an electric motor, means for connecting the same with the rollers to rotate the same, a switch for said electric motor, electromagnetic means including an armature for controlling said switch, track obstructions, means operated thereby for closing the circuit to the electromagnetic means to close the switch, a wheel operatively connected with the motor and having a notch therein, said wheel engaging the armature for holding the switch closed and the notch being adapted to receive the armature to open the switch and a slide member on said wheel for preventing the reëngagement of the armature with the notch before the motor begins to rotate, said slide being made of spring material so as to spring under the armature when the same is withdrawn from the notch, spring means for moving the slide outwardly after the wheel begins to rotate, a beveled portion on said slide for engagement by the armature after the wheel makes one revolution to force the slide outwardly to permit the armature to reënter the notch, means for returning the slide to normal position by the armature and a dog for holding the slide in normal position when the wheel is at rest.

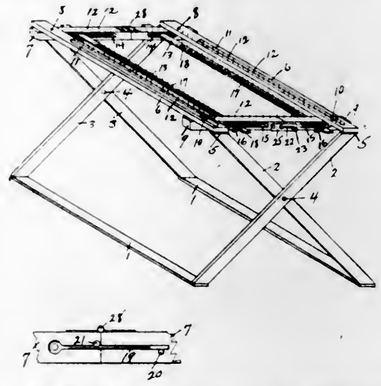
1,342,395. AX SHEATH OR CARRYING CASE. ANTON ROSENQUIST, Superior, Wis., assignor of one-fourth to Joseph Arceneau, Superior, Wis. Filed Feb. 13, 1920. Serial No. 358,542. 4 Claims. (Cl. 224—2.)

1. A device of the character described comprising a case U-shaped in cross section and having one end partially closed and the corners at its other end secured together in spaced relation whereby to provide a loop for receiving the handle of an ax, the bight portion of the casing being provided with an opening through which the end of the ax head may project and carrying loops secured



to the casing and adapted selectively for engagement upon a shoulder strap or a belt whereby the device may be suspended from the person of the user.

1,342,396. CURTAIN-STRETCHER. SERENA SOLOMON, Youngstown, Ohio. Filed Feb. 21, 1920. Serial No. 360,544. 3 Claims. (Cl. 45—24.)

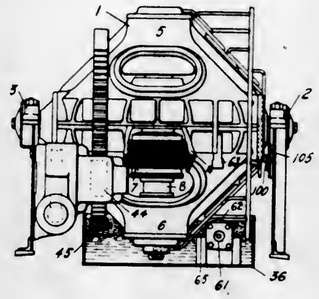


1. In a device of the class described, a folding support stand, a rectangular frame hinged to the upper ends of said support frame, side members of said frame provided with pins upon their inner edge, slots within said side members, one end of said members resting upon an end member of frame, the other hinged to upper ends of support stand, an end member provided with pins upon its inner edge, said end member formed in two equal lengths, an L-iron secured to one end of said member, said L-iron carrying a key member, a slot in end of said L-iron, a staple secured in end of the other end member so as to project through said slot when the two end members are placed end to end, said end members adjustably supported underneath above mentioned side members of frame, an end frame member hinged to upper ends of support stand, said end member provided with pins upon its inner edge, hinged at its central portion, said hinge secured upon the upper surface of said end members,—a locking means for holding said end member in horizontal position, two adjustable inner side members, the same projecting through slots in above mentioned end members, provided with pins upon both outer and inner edges, substantially as described for the purpose set forth.

1,342,397. CONTROLLING MECHANISM FOR SHIPS' GYROSCOPES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 25, 1916. Serial No. 74,075. 22 Claims. (Cl. 74—78.)

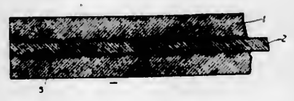
1. In a gyroscopic stabilizing or rolling apparatus, a main gyroscope mounted for precessional movements,

power means for governing the precessional movement, and a limit device on said gyroscope for causing said power means to stop.



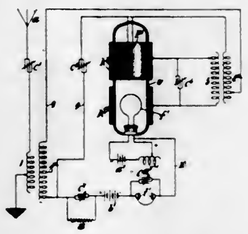
12. In a vertical gyroscope having upper and lower rotor bearings and mounted for oscillation about a horizontal axis, an oiling and cooling system comprising means for raising the oil from the lower bearing to a point adjacent the upper bearing, means whereby the oil may be transferred to the lower bearing and a receptacle adapted to contain a liquid mounted adjacent the base of said gyroscope whereby the lower rotor bearing is washed through the liquid by the oscillation of the gyroscope.

1,342,398. ELECTRODE FOR SEARCHLIGHTS AND METHOD OF MAKING THE SAME. ELMER A. SPERRY, Brooklyn, N. Y. Filed July 15, 1916. Serial No. 109,534. 13 Claims. (Cl. 176—121.)



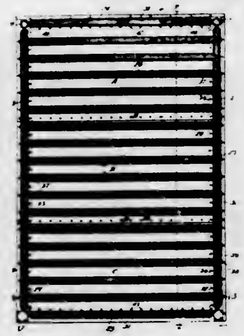
1. A carbonaceous electrode comprising a shell provided with an axial aperture having an undulatory surface, a core within said aperture, and means for uniting the core and shell.

1,342,399. WIRELESS SIGNALING APPARATUS. ROY A. WEAGANT, Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 1, 1916. Serial No. 75,562. 15 Claims. (Cl. 250—27.)



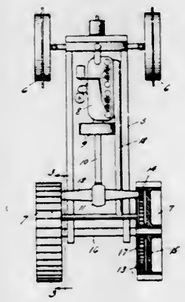
1. In a device of the kind described, the combination with a sealed vacuum chamber containing a hot element and a cold element of two separate electrodes located outside said chamber and forming circuit terminals arranged in coöperative relation with the interior of the chamber.

1,342,400. SHEET-METAL DOOR. ALLAN S. BARROWS, Chicago, Ill. Filed Mar. 28, 1919. Serial No. 285,851. 13 Claims. (Cl. 189—51.)



2. A door composed of a plurality of sheet metal panels and reinforcing strips, the panels being united to form the main portion of the door and having corrugations therein following along edges thereof, said reinforcing strips being each extended from one side to the other side of one of said corrugations and rigidly united to the main panel sheets on opposite sides of the corrugation to thereby brace the latter, the marginal edges of the door being composed of multiple-plies of sheet metal to thereby resist indentation.

1,342,401. TRACTOR. JAMES R. FOPCH, Los Angeles, Calif. Filed June 17, 1919. Serial No. 304,884. 3 Claims. (Cl. 180—84.)

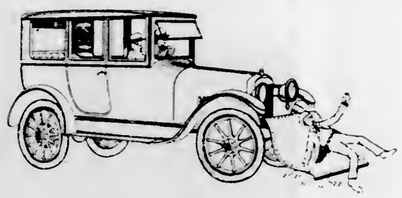


1. In a tractor, the combination with traveling ground traction means, driving mechanism contained therein adjacent the tread of said means, a closure plate forming with said means a housing for said mechanism with a clearance adjacent the tread of said means, and a source of gas blast communicating with said housing so as to discharge continuously through said clearance during travel of said tractor.

1,342,402. FENDER. FRANK M. MCDONALD, Seattle, Wash. Filed Jan. 13, 1919. Serial No. 270,881. 3 Claims. (Cl. 293—52.)

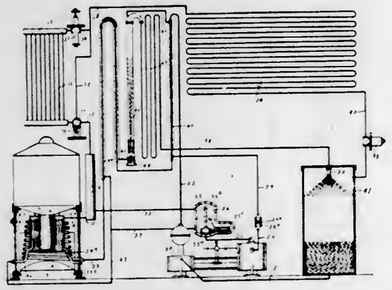
1. In apparatus of the character set forth, the combination with a main frame, of means for supporting the same on a vehicle, a yielding wall carried by the main frame, arms pivoted between their ends on the lower end of the

main frame, springs on the pivots of said arms, operating against the arms, stops carried by the main frame for



limiting the swinging movement of the arms, and a yielding roller journaled on the arms and extending across the main frame in advance of the same.

1,342,403. REFRIGERATING AND HEATING SYSTEM. WILLIAM M. BAXTER, Chicago, Ill.; assignor, by mesne assignments, to National Refrigerator Car Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 20, 1915. Serial No. 46,439. 6 Claims. (Cl. 62—119.)



1. In a system of the character described including a generator, a condenser, refrigerating coils and an absorber, the combination of a pump for returning rich liquor from the absorber to the generator, means for supplying gas under pressure from the generator to the pump for operating the same, and means actuated by variations in the liquid level in the generator for controlling the supply of gas to said pump.

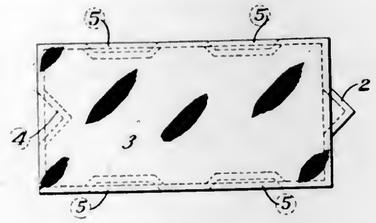
2. In a system of the character described including a generator, a condenser, refrigerating coils and an absorber, the combination of a pump for returning rich liquor from the absorber to the generator, means for supplying gas under pressure from the generator to the pump to operate the same, and float controlled mechanism actuated by variations of the liquid level in the generator for controlling the supply of gas from the generator to the pump.

3. In a system of the character described including a generator, a condenser, refrigerating coils and an absorber, the combination of a pump for returning rich liquor from the absorber to the generator, means for supplying gas under pressure from the generator to the pump for operating the same, means for regulating the operation of said pump so as to maintain a substantially uniform liquid level in the generator, and means for delivering exhaust gas from said pump into the weak liquor *en route* from the generator to the absorber.

4. In a system of the character described including a generator, a condenser, refrigerating coils and an absorber, the combination of a pump for returning rich liquor from the absorber to the generator, means for supplying gas under pressure from the generator to the pump for operating the same, and means for mingling the exhaust gas from the pump with the stream of weak liquor *en route* from the generator to the absorber.

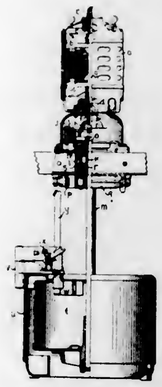
5. In a system of the character described including a generator, a condenser, refrigerating coils and an absorber, the combination of a pump for returning rich liquor from the absorber to the generator, means for introducing exhaust gas from the pump into the stream of weak liquor flowing from the generator to the absorber, and means for converting said stream into a spray to facilitate the absorption of said exhaust gas by the stream.

1,342,404. BLOWN-GLASS VACUUM-BRICK. ALFRED E. D'HARLINGUE, St. Louis, Mo. Filed Nov. 23, 1918. Serial No. 263,907. 1 Claim. (Cl. 72—41.)



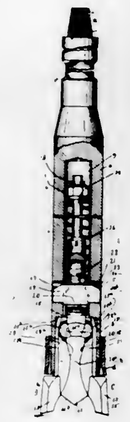
As a new article of manufacture, a blown glass brick of rectangular form having a tapered circular tenon at one end, a tapered circular pocket at its other end and having in its upper and lower walls longitudinally-extending mortar-receiving pockets that are relatively small in proportion to the contact surface between the upper and lower surfaces of abutting blocks, whereby a much larger amount of transparent surface is obtained than the surface covered by the mortar.

1,342,405. METHOD OF DRIVING ELECTRIC CENTRIFUGAL MACHINES. EDWARD D. MACKINTOSH, Brooklyn, N. Y., assignor to S. S. Hepworth Company, New York, N. Y., a Corporation of New York, and Edith M. Mackintosh, Brooklyn, N. Y. Filed Nov. 11, 1918. Serial No. 262,051. 3 Claims. (Cl. 210—23.)



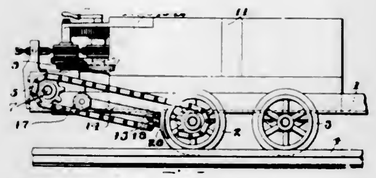
1. A centrifugal machine comprising a multispeed electric motor, a centrifugal basket or the like, a friction clutch drive connection between the motor and the basket, the low speed drive of the motor exceeding a proper unloading speed, in combination with an unloader serving by its drag on the material in the basket to cause the friction clutch to slip and thus to reduce the speed of the basket to one suitable for unloading, substantially as described.

1,342,406. UNDERREAMER. WILLIAM W. WILSON, Los Angeles, Calif. Filed July 26, 1916. Serial No. 111,437. 7 Claims. (Cl. 255—75.)



1. An underreamer comprising a body with a chamber in its lower end, which chamber is laterally closed around its periphery and opens downwardly at the lower end of the body, a pair of spreading lugs projecting downwardly from the body end at opposite sides of the chamber and each having upwardly diverging wedge faces, the chamber and the lower opening of the chamber being free and unobstructed for sole occupancy by cutters, oppositely disposed cutters having shanks extending up into the chamber, said cutters each having laterally extending shoulders to engage the wedge faces of the opposite spreading lugs, and cutter supporting and actuating means to which the cutters are pivotally attached at the upper ends of their shanks.

1,342,407. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 3, 1917. Serial No. 194,597. 28 Claims. (Cl. 188—174.)



1. In a truck, truck driving mechanism, and a retarding means pivotally mounted on a part of said truck and partially supported by said mechanism, automatically operative upon disconnection of said driving mechanism to retard truck movement.

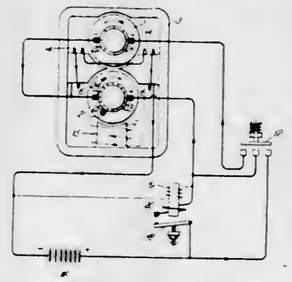
1,342,408. REINFORCED-CONCRETE VESSEL AND METHOD OF BUILDING THE SAME. ALFREDO CARLO JANNI, New York, N. Y. Filed Mar. 21, 1918. Serial No. 223,742. 7 Claims. (Cl. 114—65.)

1. The hereinbefore described method of building a reinforced concrete vessel which consists in constructing a frame work of diagonal truss members so arranged as to convert shear to which the vessel will be subjected into substantially axial tension and compression, and upon



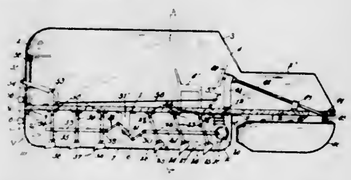
said frame work independently forming slabs of cementitious material in such a manner as to allow a certain limited movement of said slabs relative to the frame work.

1,342,409. STARTING AND GENERATING SYSTEM. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 11, 1918. Serial No. 227,852. 5 Claims. (Cl. 290—31.)



4. In a starting and generating system, in combination, a dynamo-electric machine having a pair of armatures acting cumulatively under motoring conditions, a storage battery, a starting switch for connecting said armatures in parallel to said battery, an automatic switch for connecting one of said armatures to said battery for charging purposes, said dynamo electric machine having windings for directing flux through both said armatures, and another winding for directing flux through one only of said armatures, said last mentioned winding being connected across said one armature between points whose potential difference decreases under the influence of armature cross flux.

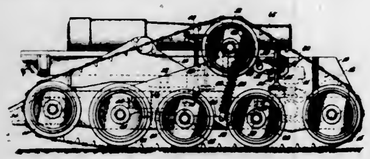
1,342,410. AUTOMOBILE SLED. JOHN WACHNIAK, New York, N. Y. Filed Feb. 21, 1920. Serial No. 360,542. 4 Claims. (Cl. 180—4.)



4. In a sled, a motor, a series of arms pivoted at their upper ends one behind the other to swing longitudinally of the sled, a pitman-bar connecting said arms to operate together, blocks hinged to the lower ends of said arms and having sharpened rear edges passing downwardly on the surface on which the sled is traveling, a second series of similar arms pivoted at their upper ends one behind the other in a common plane, blocks on the lower ends of said arms similar to the first mentioned blocks, an operative connection between said first mentioned blocks and the motor, and an operative connection between the two pitman-bars whereby they are caused to move in unison in opposite directions, said connection including a walking beam arranged between the two sets of arms.

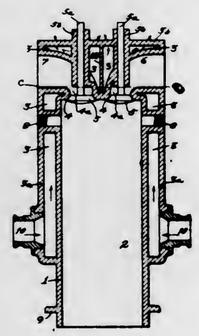
REISSUES.

14,868. TRACTOR. WALTER CHRISTIE, Weehawken, N. J. Filed May 4, 1920. Serial No. 378,748. Original No. 1,336,130, dated Apr. 6, 1920, Serial No. 259,310, filed Oct. 23, 1918. 21 Claims. (Cl. 180—9.)



1. In a vehicle, a frame, and sets of load carrying road wheels connected to the frame and including steering wheels mounted for angular movement, said wheels formed to receive removable creeper chains, the steering wheels being held against angular movement when the chains are in place.

14,869. CYLINDER FOR INTERNAL-COMBUSTION ENGINES. HAROLD A. HALL, San Jose, Calif. Filed Feb. 12, 1920. Serial No. 358,124. Original No. 1,274,161, dated July 30, 1918, Serial No. 216,324, filed Feb. 9, 1918. 2 Claims. (Cl. 123—173.)



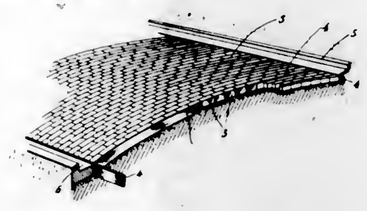
1. A cylinder for internal combustion engines having a cooling water compartment adjacent its sides and head, a plurality of openings at the lower end of said compartment for the admission of water thereto, a centrally located cooling water outlet on the top of the cylinder head, a plurality of valve-controlled ports in the cylinder head arranged about the central cooling water outlet, said ports having valve-stem guides whose longitudinal axis is parallel to the axis of the cylinder, an inlet port in the cylinder head in connection with a plurality of the valve-ports, and an exhaust port in the cylinder head in connection with a plurality of the valve-ports.

14,870. LUBRICATING-STRIP FOR LEAF-SPRINGS. THOMAS S. HAMILTON, Kansas City, Mo., assignor of one-half to William E. Merrill, Kansas City, Mo. Filed Dec. 3, 1919. Serial No. 342,236. Original No. 1,323,856, dated Dec. 2, 1919, Serial No. 320,683, filed Aug. 29, 1919. 17 Claims. (Cl. 267—50.)



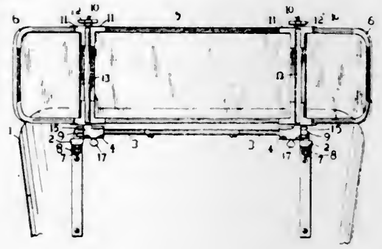
1. A lubricating strip for leaf springs comprising a strip of fabric provided upon one side thereof with an adhesive and upon the other side with a layer of lubricant.

14,871. ELASTIC OR EXPANSIBLE PAVING-JOINT. WILLIAM JOHN MOELLER, Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio, a Corporation of Ohio. Filed Feb. 15, 1919. Serial No. 277,360. Original No. 1,220,766, dated Mar. 27, 1917, Serial No. 707,773, filed July 5, 1912. 8 Claims. (Cl. 94—18.)



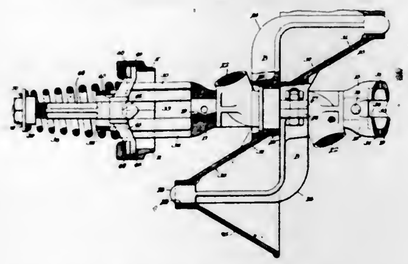
8. An expansion joint composed of a soft material saturated with a waterproofing substance and forming a relative rigid block or board-like structure.

14,872. WINDSHIELD FOR AUTOMOBILES. THEODORE B. NISBET, Irvington, N. Y. Filed June 13, 1919. Serial No. 304,067. Original No. 1,238,803, dated Sept. 4, 1917, Serial No. 870,718, filed Nov. 7, 1914. 6 Claims. (Cl. 296—85.)



1. The combination of a pair of rods, each movable in a horizontal plane and capable of being brought into a mutually overlapping position, sleeves slidably and rotatably mounted on said rods, and a wind-shield carried by and connecting the sleeves and movable therewith around the axes of the rods from an erect to a pendent position in respect to said axes.

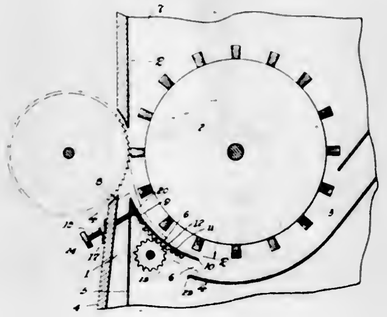
14,873. AUTOMATIC TRAIN-PIPE CONNECTOR. JOSEPH V. ROBINSON, Santa Monica, Calif., assignor to The Robinson Connector Company, Washington, D. C., a Corporation of Delaware. Filed Oct. 31, 1919. Serial No. 334,880. Original No. 1,245,784, dated Nov. 6, 1917, Serial No. 781,194, filed July 25, 1913. 34 Claims. (Cl. 285—58.)



1. In an automatic train pipe coupling, the combination of a coupling head, a base, a member passing through

the base and carrying at one end a laterally diverging fluid conduit which extends through said head, a projection near the other end of said member, and means for normally maintaining said projection in engagement with said base to yieldingly support said coupling head.

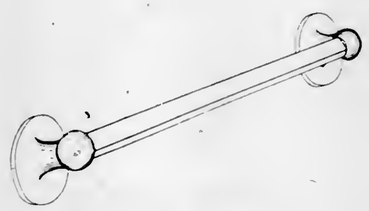
14,874. MOTE-BOARD FOR COTTON-GINS. JAMES L. WOOLDRIDGE, Decatur, Tex. Filed Nov. 14, 1917. Serial No. 202,080. Original No. 1,227,727, dated May 29, 1917, Serial No. 29,660, filed May 21, 1915. 9 Claims. (Cl. 13—9.)



4. In a cotton seed linter, a saw cylinder, doffing means therefor, a lint eduction flue, a mote-board having its forward end juxtaposed to a vertical plane between said saw cylinder and its doffing means and its rear end disposed to deliver the lint into said flue, and means to adjust the mote-board toward and from said plane and concentrically with reference to said doffing means to maintain substantially constant the intake opening for, and therefore the volume or velocity of, the lint bearing air current in said flue.

DESIGNS.

55,354. TOWEL-BAR. STEPHEN D. BAKER, New York, N. Y. Filed Apr. 14, 1919. Serial No. 290,097. Term of patent 14 years.



The new and ornamental design for a towel bar, substantially as herein shown.

55,355. GLASS GOBLET OR SIMILAR ARTICLE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 2, 1920. Serial No. 349,063. Term of patent 14 years.



The ornamental design for a glass goblet or similar article, as shown.

55,356. GLASS GOBLET OR SIMILAR ARTICLE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 2, 1920. Serial No. 349,064. Term of patent 14 years.



The ornamental design for a glass goblet or similar article, as shown.

55,357. GLASS GOBLET OR SIMILAR ARTICLE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 2, 1920. Serial No. 349,065. Term of patent 14 years.



The ornamental design for a glass goblet or similar article, as shown.

55,358. GLASS GOBLET OR SIMILAR ARTICLE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 2, 1920. Serial No. 349,066. Term of patent 14 years.



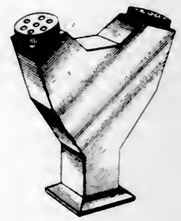
The ornamental design for a glass goblet or similar article, as shown.

55,359. GLASS GOBLET OR SIMILAR ARTICLE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 27, 1920. Serial No. 354,481. Term of patent 14 years.



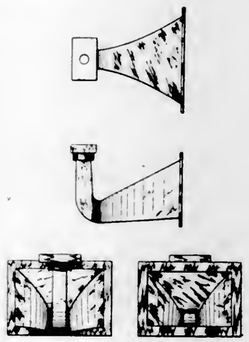
The ornamental design for a glass goblet or similar article, as shown.

55,360. CONDIMENT-HOLDER. MILTIADES ATH. BECOLAS, St. Louis, Mo. Filed Sept. 19, 1919. Serial No. 325,021. Term of patent 3½ years.



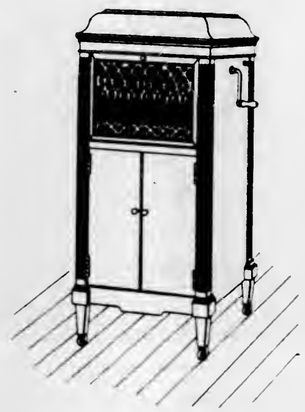
The ornamental design for a condiment holder as shown.

55,361. TONE-CHAMBER FOR PHONOGRAPHS. IVAR BENSON, Seattle, Wash. Filed Mar. 25, 1920. Serial No. 368,761. Term of patent 7 years.



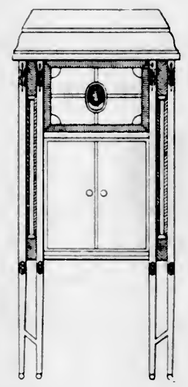
The ornamental design for a tone chamber for phonographs as shown.

55,362. PHONOGRAPH-CABINET. IVAR BENSON, Seattle, Wash. Filed Mar. 25, 1920. Serial No. 368,762. Term of patent 3½ years.



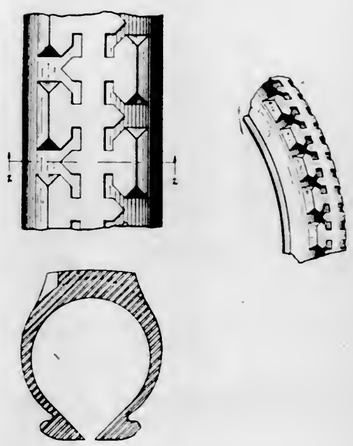
The ornamental design for a phonograph cabinet as shown.

55,363. PHONOGRAPH-CABINET. JOHN S. BLANKINSHIP, Lynchburg, Va. Filed Apr. 13, 1920. Serial No. 373,561. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

55,364. TIRE-TREAD. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Dec. 11, 1919. Serial No. 344,148. Term of patent 7 years.



The ornamental design for a tire tread as shown.

55,365. SOUNDING-POST TOOL. GEORGE J. CHAMPANE, Beachmont, Mass. Filed Mar. 1, 1920. Serial No. 362,562. Term of patent 3½ years.



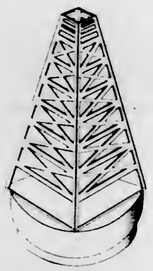
The ornamental design for a sounding post tool, as shown.

55,366. TRANSPARENT COOKING-DISH. WILLIAM CHURCHILL, Corning, N. Y., assignor to Corning Glass Works, a Corporation of New York. Filed Sept. 8, 1915. Serial No. 49,635. Term of patent 14 years.



The ornamental design for a transparent cooking dish, as shown.

55,367. RADIATOR-CAP. RAYMOND D. COOK, Tulsa, Okla. Filed Jan. 29, 1920. Serial No. 354,942. Term of patent 14 years.



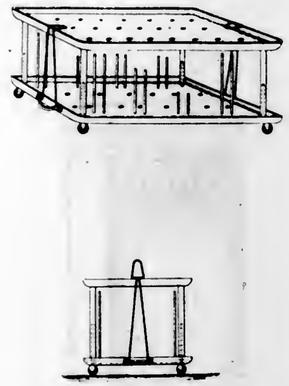
The ornamental design for a radiator cap, as shown.

55,368. BELT AND TROUSERS CLAMP. THOMAS DELIKAT, Newark, N. J. Filed Oct. 15, 1919. Serial No. 330,925. Term of patent 3½ years.



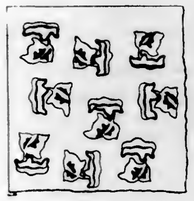
The ornamental design for a belt and trousers clamp as shown.

55,369. TRAY. DELIA G. DOWLING, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,955. Term of patent 7 years.



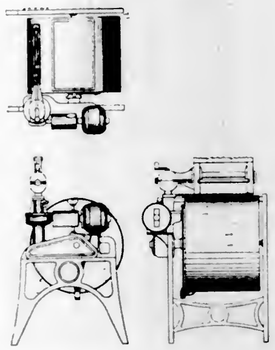
The ornamental design for a tray, as shown.

55,370. TEXTILE FABRIC. JOHN EBEL, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,199. Term of patent 3½ years.



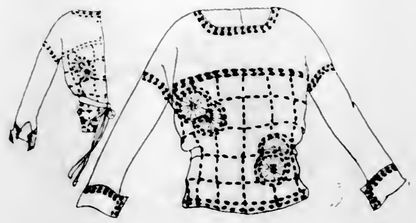
The ornamental design for a textile fabric as shown.

55,371. WASHING-MACHINE OR SIMILAR DEVICE. HAROLD WILLIAM EDEN, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 351,060. Term of patent 14 years.



The ornamental design of a washing machine or similar device, substantially as shown.

55,372. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1919. Serial No. 324,708. Term of patent 3½ years.



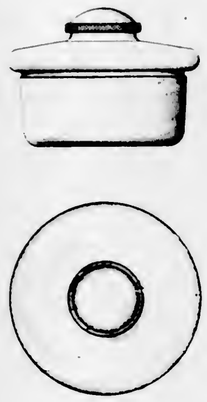
The ornamental design for a woman's blouse, as shown.

55,373. WOMAN'S BLOUSE. ALICE H. FLANDERS, Chicago, Ill., assignor to A. H. Flanders Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1919. Serial No. 324,709. Term of patent 3½ years.



The ornamental design for a woman's blouse, as shown.

55,374. BOTTLE-STOPPER. IRA L. FRENCH, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill. Filed Oct. 29, 1919. Serial No. 334,367. Term of patent 3½ years.



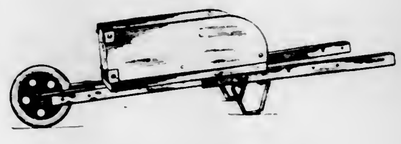
The ornamental design for a bottle stopper, as shown.

55,375. LACING-TIP. EUGENE FULLER, Providence, R. I. Filed Jan. 19, 1920. Serial No. 352,625. Term of patent 14 years.



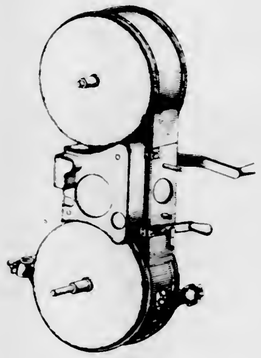
The ornamental design for a lacing tip, as shown.

55,376. TOY WHEELBARROW. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 15, 1919. Serial No. 290,343. Term of patent 14 years.



The drawing shows a perspective view of a toy wheelbarrow embodying my new design.

55,377. HOUSING FOR MOTION-PICTURE MACHINES. JOSEPH GRANZ, Duluth, Minn. Filed Mar. 28, 1919. Serial No. 285,935. Term of patent 7 years.



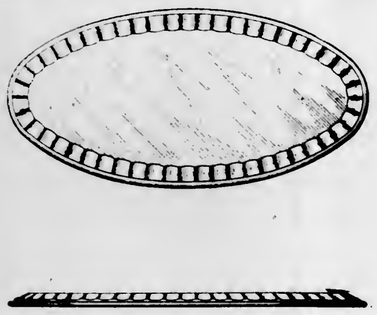
The ornamental design for a housing for motion picture machines, as shown.

55,378. TIRE-TREAD. HARMON E. GROOMS, Columbus, Ga. Filed Mar. 15, 1919. Serial No. 282,989. Term of patent 14 years.



The ornamental design for a tire tread, as shown.

55,379. AUTO-CURTAIN WINDOW. REUBEN HALEY, Beaver, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,321. Term of patent 14 years.



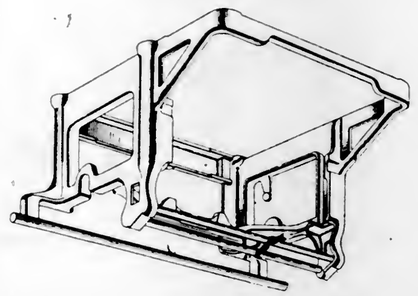
The ornamental design for an auto curtain window, substantially as shown.

55,380. BOTTLE-CAP. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1919. Serial No. 277,665. Term of patent 14 years.



The ornamental design for a bottle cap as shown.

55,381. TYPEWRITING-MACHINE FRAME. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 31, 1919. Serial No. 286,578. Term of patent 14 years.



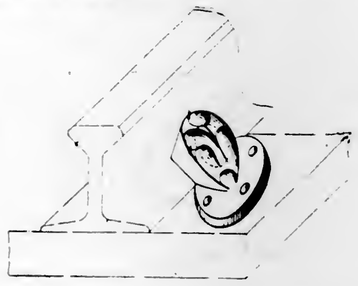
The ornamental design for a typewriting machine frame, as shown.

55,382. ROSARY. GEORGE B. HOVEKAMP, Cincinnati, Ohio. Filed Sept. 15, 1919. Serial No. 324,030. Term of patent 14 years.



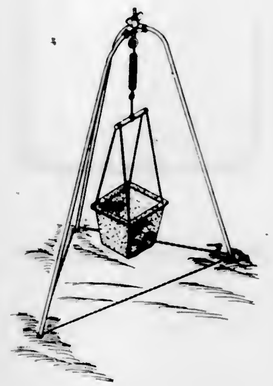
The ornamental design for a rosary as shown.

55,383. RAIL-CLAMP. JOSEPH KACZMARCZYK, Detroit, Mich. Filed Oct. 22, 1919. Serial No. 332,568. Term of patent 3½ years.



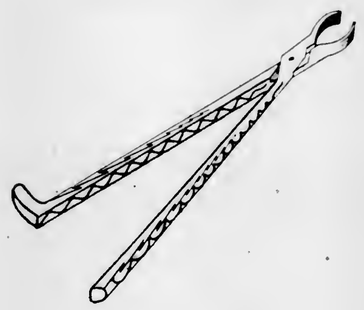
The ornamental design for a rail clamp, as shown.

55,384. PORTABLE BABY-SWING. HARRY T. KINGSBURY and EDWARD J. KINGSBURY, Keene, N. H. Filed Sept. 15, 1919. Serial No. 324,027. Term of patent 7 years.



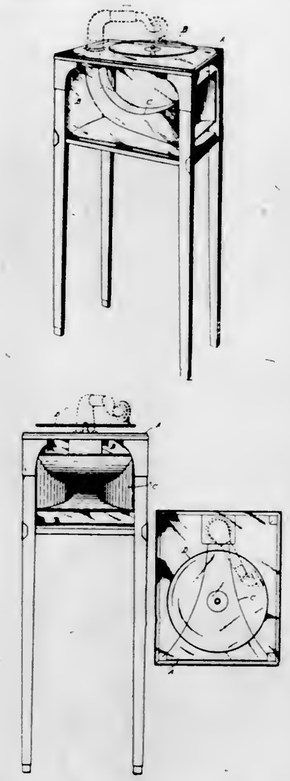
The ornamental design for a portable baby swing, as shown.

55,385. PAIR OF TONGS. PETER KUZMJAK, Connellsville, Pa. Filed Feb. 9, 1920. Serial No. 357,366. Term of patent 14 years.



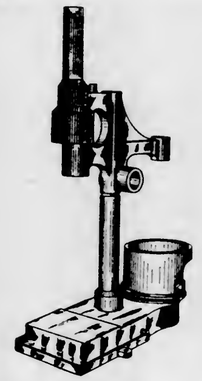
The ornamental design for a pair of tongs, as shown.

55,386. PHONOGRAPH-CASE. LOUIS S. KURTZMANN, Buffalo, N. Y. Filed Oct. 4, 1918. Serial No. 256,909. Term of patent 14 years.



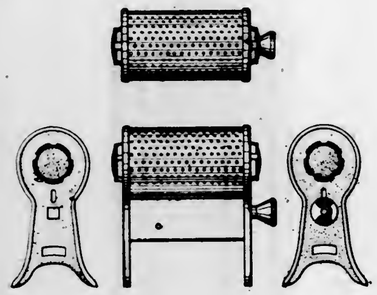
The ornamental design for a phonograph case as shown and described.

55,387. DRILL-PRESS FRAME. PHILIP H. LECKINGER, Rochester, N. Y., assignor to The High Speed Hammer Company, Inc., Rochester, N. Y., a Corporation. Filed July 3, 1919. Serial No. 308,657. Term of patent 14 years.



The ornamental design for a drill press frame as shown.

55,388. GAS-HEATER. LOUIS LEBAU, Pittsburgh, Pa. Filed Dec. 6, 1919. Serial No. 343,138. Term of patent 14 years.



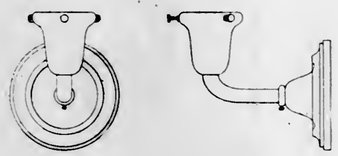
The ornamental design for a gas heater as shown.

55,389. FAN. CLARENCE M. LEVETT, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,706. Term of patent 7 years.



The ornamental design for a fan as shown.

55,390. WALL-BRACKET. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Scott-Ullman Co., Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,186. Term of patent 3½ years.



The ornamental design for a wall bracket, as shown.

55,391. POWDER-CLOTH. ALEX MARCUS, Brooklyn, N. Y. Filed Mar. 12, 1919. Serial No. 282,215. Term of patent 14 years.



The ornamental design for a powder cloth, as shown.

55,392. POWDER-PUFF. ALEX MARCUS, Brooklyn, N. Y. Filed Mar. 12, 1919. Serial No. 282,216. Term of patent 14 years.



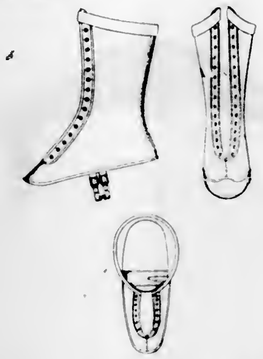
The ornamental design for a powder puff, as shown.

55,393. SHOE-HEEL. WARD MELVILLE, New York, N. Y., assignor to The Melville Shoe Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,490. Term of patent 14 years.



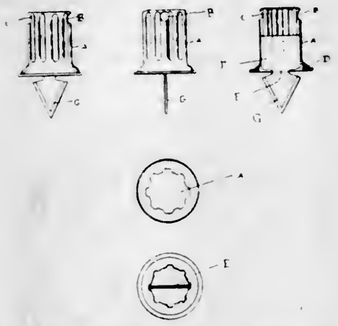
The ornamental design for a shoe heel, as shown.

55,394. SPAT. THEODORE A. MOOLTEN, New York, N. Y. Filed June 26, 1916. Serial No. 106,063. Term of patent 3½ years.



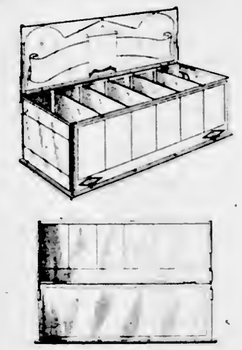
The ornamental design for a spat as shown.

55,395. POURING DEVICE. JOSEPH E. O'BRIEN, Springfield, Mass. Filed Jan. 21, 1920. Serial No. 353,128. Term of patent 14 years.



The ornamental design for a pouring device as shown.

55,396. CABINET FOR RUBBER BANDS. FRANK PFOLS, Coshocton, Ohio, assignor to Eberhard Faber Pencil Co., New York, N. Y., a Corporation of New York. Filed Dec. 26, 1917. Serial No. 209,000. Term of patent 7 years.



The ornamental design for a cabinet for rubber bands, substantially as shown.

55,397. SHOE-SOLE OR SIMILAR ARTICLE. EARL PHILLIPS, Cleveland, Ohio. Filed Feb. 3, 1920. Serial No. 355,984. Term of patent 7 years.



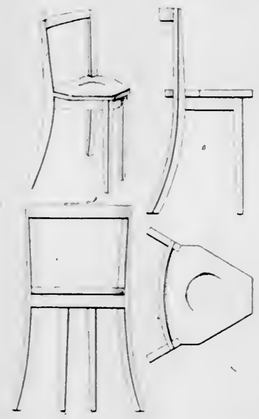
The ornamental design for a shoe sole or similar article, as shown.

55,398. EMBLEM-BUTTON. GEORGE H. RENNICK, Indianapolis, Ind. Filed Feb. 19, 1920. Serial No. 359,959. Term of patent 14 years.



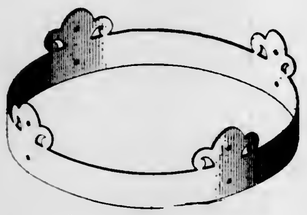
The ornamental design for an emblem button, as shown.

55,399. CHAIR. CHARLES RIEDER, Philadelphia, Pa., assignor to Charles Rieder, Israel H. Rieder, Frank Rieder, and Herman L. Rieder, Philadelphia, Pa., a Copartnership trading as Frank Rieder & Sons. Filed Mar. 12, 1920. Serial No. 365,326. Term of patent 14 years.



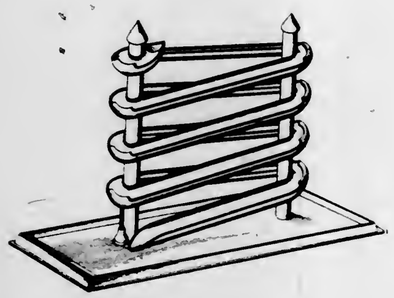
The ornamental design for a chair, as shown.

55,400. HEAD-RING FOR ELECTRIC-LIGHT FIXTURES. HAYMAN SHLAMOWITZ, Brooklyn, N. Y. Filed Feb. 24, 1920. Serial No. 360,997. Term of patent 7 years.



The ornamental design for a head ring for electric light fixtures as shown.

55,401. GAME. CHARLES R. TEATS, Columbus, Ohio. Filed Nov. 5, 1918. Serial No. 261,304. Term of patent 14 years.



The ornamental design for a game, as shown.

55,402. BAG-FRAME MEMBER OR SIMILAR ARTICLE. WILLIAM TURTON, East Orange, N. J. Filed Nov. 7, 1919. Serial No. 336,482. Term of patent 3½ years.



The ornamental design for a bag frame member or similar article, as shown.

55,403. SCONCE FOR A LIGHTING-FIXTURE OR SIMILAR ARTICLE. GUSTAVE J. VESTER, Providence, R. I., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Filed Jan. 19, 1920. Serial No. 352,633. Term of patent 7 years.

The ornamental design for a sconce for a lighting fixture or similar article, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 1, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 69,754. (CLASS 37. PAPER AND STATIONERY.) WANDERER-WERKE VORM. WINKLHOFER & JAENICKE AKTIENGESELLSCHAFT, Schönau, near Chemnitz, Germany. Filed Apr. 12, 1913.

Continental

Particular description of goods.—Eraser-Stencils for Typewriters, Manuscript-Holders, Typewriter Copy-Holders, and Typewriter Erasing-Shields.
Claims use since January, 1903.

Ser. No. 102,864. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ELIZABETH M. HICKEY, Seattle, Wash. Filed Apr. 10, 1917.

HICO

Particular description of goods.—A Cleaning Compound, Said Compound Being Marketed in Paste or Cake Form, for Removing Dirt, Soil, and Grease from Textiles and Floor-Coverings, Such as Carpets.
Claims use since Mar. 3, 1917.

Ser. No. 106,284. (CLASS 39. CLOTHING.) JACOB A. RAISFORD, Bergenfield, N. J. Filed Sept. 17, 1917.



No exclusive claim being made to the representation of the vest nor to the use of the words "Body Guard" other than in connection with the mark shown here.
Particular description of goods.—Undervests, Storm-Vests, and Padded and Quilted Vests and Jackets.
Claims use since Aug. 15, 1917.

Ser. No. 107,208. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED STATES MACARONI COMPANY, Los Angeles, Calif. Filed Nov. 6, 1917.



Particular description of goods.—Macaronic Foods, Including Bombolati, Linguini, Foratini, Ditali Rigati, Ziti, Mustacioli Rigati, Mezzi Rigati, Tubbettini, Fagiolini, Pepe, Ditaloni, Macaroncelli, Reginette, Tagliarini, Lasagne, Ditali, Ditalati, Regatoni, Alphabets, Rosmarini, Crowns, Elbows, Spaghetti, Forati, Macaroni, Vermicelli, Stars, Rings, Regati, Sea-Shells, Rice, Cappellini, Reg Inini, De Natale, Ditalini, La Sagnette, Mustacioli, Spaghettini.
Claims use since Aug. 1, 1905.

Ser. No. 108,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MIDDLESEX COUNTY CREAMERY CO., Boston, Mass. Filed Feb. 14, 1918.

VICTORY

Particular description of goods.—Oleomargarin.
Claims use since Mar. 15, 1917.

Ser. No. 109,699. (CLASS 37. PAPER AND STATIONERY.) NATIONAL PAPETERIE COMPANY, Springfield, Mass. Filed Mar. 21, 1918.



No claim being made to the words "We Also Serve" apart from the mark as shown.
Particular description of goods.—Writing-Paper and Envelops.
Claims use since Feb. 1, 1918.

Ser. No. 110,911. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MUTUAL TRADING COMPANY, New York, N. Y. Filed Apr. 5, 1918.

ECLIPSE

Particular description of goods.—Bedspreads, Comfortables, and Blankets.
Claims use since April, 1905.

Ser. No. 110,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

C 1

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,974. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

C 2

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,975. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

C 3

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,976. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

C 9

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,977. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

C 10

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CGIANT

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CA1

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,980. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CA2

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,981. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CA3

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,982. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CA4

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,983. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CB1

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 110,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CC 1

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,985. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CC 2

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,986. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CC 3

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,987. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CC 9

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,988. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CC 10

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,989. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CCGIANT

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,990. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CCA1

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,991. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CCA2

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,992. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CCA3

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,993. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CCA4

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CF

Particular description of goods.—Rice.
Claims use since Feb. 1, 1918.

Ser. No. 110,995. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CF 1

Particular description of goods.—Rice.
Claims use since July 1, 1917.

Ser. No. 110,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CS1

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CS2

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 110,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CSC 1

Particular description of goods.—Rice.
Claims use since Oct. 31, 1915.

Ser. No. 110,999. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

CSC2

Particular description of goods.—Rice.
Claims use since June 1, 1917.

Ser. No. 111,000. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

J 1

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918

J 2

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

J 3

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,003. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

J 4

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JGIANT

Particular description of goods.—Rice.
Claims use since July 31, 1915.

Ser. No. 111,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JC 1

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JC 2

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,007. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JC 3

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JC 4

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JCGIANT

Particular description of goods.—Rice.
Claims use since May 31, 1915.

Ser. No. 111,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JS1

Particular description of goods.—Rice.
Claims use since May 31, 1918.

Ser. No. 111,011. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

JSC 1

Particular description of goods.—Rice.
Claims use since Mar. 31, 1916.

Ser. No. 111,012. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 1

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,013. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 2

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 3

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 4

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 5

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,017. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 6

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

S 7

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,019. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & CO., INC., San Francisco, Calif. Filed May 17, 1918.

SC1

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,020. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SC 2

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SC 3

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,022. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SC 4

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,023. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SC5

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SC6

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SC7

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,026. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SCEXTRA

Particular description of goods.—Rice.
Claims use since Apr. 31, 1916.

Ser. No. 111,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SGIANT

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,028. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SCGIANT

Particular description of goods.—Rice.
Claims use since Jan. 31, 1916.

Ser. No. 111,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

SF

Particular description of goods.—Rice.
Claims use since Feb. 1, 1918.

Ser. No. 111,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. T. WELISCH & Co., INC., San Francisco, Calif. Filed May 17, 1918.

TT

Particular description of goods.—Rice.
Claims use since Feb. 31, 1915.

Ser. No. 111,960. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y. Filed July 6, 1918.

Emerson Records

Applicant hereby disclaims the use of the word "Records" apart from the trade-mark shown.
Particular description of goods.—Phonographs and Phonograph-Records.
Claims use since June 3, 1918.

Ser. No. 113,114. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ACME VENTILATOR CORPORATION, Lynn, Mass. Filed Sept. 11, 1918.

ACME VENTILATOR CORPORATION ACME LYNN, MASSACHUSETTS

No claim is made to the words "Lynn, Massachusetts, Acme Ventilator Corporation" apart from the showing in the drawing.
Particular description of goods.—Ventilators for Exterior Use on Houses and Buildings.
Claims use since Aug. 1, 1918.

Ser. No. 113,135. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ADJUSTABLE SALES CORPORATION, Rochester, N. Y. Filed Sept. 12, 1918.

ADJUSTIT 4 Cars in One

No claim being made to exclusive use of the expression "4 Cars in One" apart from the mark shown.
Particular description of goods.—Children's Velocipedes.
Claims use since Feb. 21, 1918.

Ser. No. 113,468. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HEXTER-STEWART CORPORATION COMPANY, Cleveland, Ohio. Filed Sept. 28, 1918.

Softasilk

Particular description of goods.—Liquid Soap.
Claims use since September, 1915.

Ser. No. 113,731. (CLASS 2. RECEPTACLES.) VICTORY BAG & PAPER CO., Chicago, Ill. Filed Oct. 14, 1918.

THRIFT KRAFT

The trade-mark consisting of the word "Thrift," no exclusive claim being made to the word "Kraft" apart from the mark shown.
Particular description of goods.—Paper Bags.
Claims use since Aug. 1, 1918.

Ser. No. 114,432. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ROSCOE B. PIPER, Sioux City, Iowa. Filed Nov. 30, 1918.

COUNCIL OAK

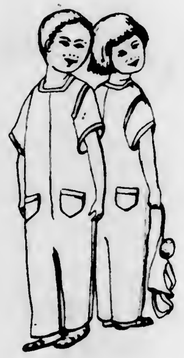
Particular description of goods.—Automobile Tires and Tubes Composed of Rubber and Rubber and Fabric.
Claims use since Apr. 1, 1918.

Ser. No. 115,687. (CLASS 12. CONSTRUCTION MATERIALS.) THE AUSTIN COMPANY, East Cleveland, Ohio. Filed Feb. 8, 1919.

"INTERFIT"

Particular description of goods.—Standard Factory and other Buildings and Partially-Fabricated Parts Thereof—Namely, Beams, Columns, Trusses, Window-Frames, Skylight-Frames, and Monitor-Frames.
Claims use since August, 1918.

Ser. No. 115,730. (CLASS 39. CLOTHING.) ERNEST A. HILL, San Francisco, Calif. Filed Feb. 10, 1919.



Particular description of goods.—Overalls for Children.
Claims use since Dec. 1, 1918.

Ser. No. 115,833. (CLASS 2. RECEPTACLES.) WALTER H. DEUBENER, St. Paul, Minn. Filed Feb. 13, 1919.

"KARRY-M BAG"

No claim being made to the word "Bag" apart from the mark as shown.
Particular description of goods.—A Hand Paper Bag.
Claims use since Nov. 20, 1918.

Ser. No. 116,730. (CLASS 15. OILS AND GREASES.) THE UNITED STATES GRAPHITE COMPANY, Saginaw, Mich. Filed Mar. 19, 1919.

GRAFENE

Particular description of goods.—Mining-Machine Lubricant.
Claims use since Mar. 1, 1919.

Ser. No. 116,853. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MIKE SITA, Tacoma, Wash. Filed Mar. 24, 1919.

BOMIKO

"Bomiko."
Particular description of goods.—A Leather-Dressing for Cleaning and Polishing Shoes.
Claims use since July 1, 1918.

Ser. No. 116,889. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MORRIS & YOEMANS, LIMITED, Redditch, England. Filed Mar. 25, 1919.



Particular description of goods.—Boot-Drivers, Boot-Awls, Machinery-Springs.
Claims use since the 30th of May, 1861.

Ser. No. 117,051. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JORDAN MOTOR CAR CO., Cleveland, Ohio. Filed Mar. 31, 1919.

SILHOUETTE

Particular description of goods.—Automobiles.
Claims use since on or about Mar. 18, 1919.

Ser. No. 117,657. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FAIRE BROS. & CO., LIMITED, Leicester, England. Filed Apr. 21, 1919.



Particular description of goods.—Elastic Webs.
Claims use since the 3d of December, 1917

Ser. No. 117,831. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BLUE ISLAND SPECIALTY CO., Blue Island, Ill. Filed Apr. 25, 1919.

Bisco

Particular description of goods.—Impression-Trays, Agate Spatulas, Acid-Proof Cement-Spatulas, Nickel-Silver Cement-Spatulas, Draw-Plates, Screw-Plates, Dies and Taps, Broach-Holders, Hand-Vises; Mandrels and Porte-Polishers, (Dental Appliances;) Root-Canal Instruments; Beutelrock Drills, (Dental Appliances;) Root-Canal Drills, Root-Canal Reamers, Root-Facers, Vulcanite Burs, Plug-Finishing Burs; Crosscut-Burs, (Dental Appliances,) and Swages for Upper and Lower Plates, (All the Foregoing Being Appliances Used by Dentists and Orthodontists.)
Claims use since on or about the 4th day of December, 1917.

Ser. No. 118,011. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOLT MANUFACTURING COMPANY, Stockton, Calif. Filed Apr. 30, 1919.

CATERPILLAR

Particular description of goods.—Wagons.
Claims use since Jan. 1, 1905.

Ser. No. 119,544. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R & L COMPANY, Cleveland, Ohio. Filed June 13, 1919.

BRC

Particular description of goods.—Automobiles—Namely, Industrial Tractors and Trucks.
Claims use since Jan. 1, 1918.

Ser. No. 119,795. (CLASS 39. CLOTHING.) SIDNEY O. E. DRYFOOS, New York, N. Y. Filed June 20, 1919.

Elfyo Mill

I make no claim to the word "Mill" apart from the mark shown in the drawing.
Particular description of goods.—Men's, Women's, and Children's Hosiery and Men's, Women's, and Children's Underwear Comprising One and Two Piece Garments Made of Wool, Cotton, and Silks.
Claims use since about March, 1917.

Ser. No. 119,870. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LUCIUS ANTON SMITH, Buffalo, N. Y. Filed June 23, 1919.

THE GREAT SMITH TRUSS

No claim being made to the phrase "The Great Smith Truss" apart from the mark shown in the drawing.
Particular description of goods.—Trusses for Inguinal Hernia, Femoral Hernia, Umbilical Hernia, and Ventral Hernia.
Claims use since Feb. 21, 1919.

Ser. No. 119,942. (CLASS 39. CLOTHING.) L. GIDDING & Co., New York, N. Y. Filed June 25, 1919.

THE Sol

Particular description of goods.—Middy-Blouses.
Claims use since about Nov. 1, 1918.

Ser. No. 120,644. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) F. HOFFMAN & SONS, INC., Newark, N. J. Filed July 17, 1919.



The ribbon being blue, the seal being red, and the border being gold.
Particular description of goods.—Lemon Tru-Fru, Birch-Beer, Coco-Cream, Orange Tru-Fru, Root-Beer, Cream-Soda, Sarsaparilla, Raspberry, Grape-Soda, and Cherry-Cluster.
Claims use since June 1, 1914.

Ser. No. 121,005. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed July 28, 1919.

KICK-ABOUT

Particular description of goods.—Children's One-Piece Sleeping-Suits.
Claims use since July 1, 1919.

Ser. No. 121,550. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE WESTERN NEWS COMPANY, Chicago, Ill., assignor to The Tel-O-Tone Phonograph Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1919.

TEL-O-TONE

Particular description of goods.—Phonographs and Phonograph-Cabinets.
Claims use in its business since about July 1, 1918, and in the business of its predecessor, William C. Beckwith, since about June 1, 1917.

Ser. No. 121,932. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) UNEXCELLED MANUFACTURING COMPANY, INC., New York, N. Y. Filed Aug. 23, 1919.

RIPPER

Particular description of goods.—Fireworks.
Claims use since on or about the 3d day February, 1915.

Ser. No. 122,040. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. CLARKE & SONS, INC., Baltimore, Md. Filed Aug. 27, 1919.

Rose-Vel

Particular description of goods.—Soap.
Claims use since August, 1917.

Ser. No. 122,127. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LANGE SOAP CO., San Antonio, Tex. Filed Aug. 29, 1919.

No. 2

Particular description of goods.—Soap.
Claims use since Jan. 1, 1908.

Ser. No. 122,449. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SILVER & CO., Brooklyn and New York, N. Y. Filed Sept. 8, 1919. Under ten-year proviso.

LITTLE BEAUTY

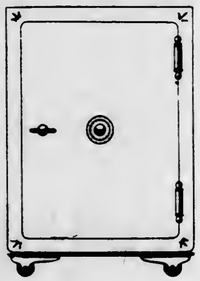
Particular description of goods.—Oil-Lamps and Parts and Accessories Thereof—Namely, Wicks, Globe-Holders, Burner Parts, and Repair Parts—Namely, Wick-Tubes, Lamp-Feet, and Suspension-Rings of Lamps.
Claims use since about the year 1889.

Ser. No. 122,466. (CLASS 39. CLOTHING.) BYRNE & HAMMER DRY GOODS CO., Omaha, Nebr. Filed Sept. 9, 1919.

Lady Fair

Particular description of goods.—Corsets.
Claims use since Aug. 1, 1919.

Ser. No. 123,047. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHAS. W. YOUNG & Co., Philadelphia, Pa. Filed Sept. 23, 1919.



Particular description of goods.—Soap Flakes.
Claims use since Sept. 9, 1919.

Ser. No. 123,079. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROCHESTER GERMICIDE COMPANY, Rochester, N. Y. Filed Sept. 24, 1919.



No claim being made to exclusive use of the word "Pipe-Cleaner" apart from the mark shown on the drawing.
Particular description of goods.—Liquid Soap, Sweeping Compound, Metal-Polish, Washing-Powder, and Pipe-Cleaner, a Detergent Preparation for Scouring Plumbing.
Claims use since Jan. 1, 1895.

Ser. No. 123,533. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT CLEARY, Portland, Oreg. Filed Oct. 8, 1919.

WHITE
WIZARD
LAUNDRY
COMPOUND

No claim is made to the exclusive use of the words "Laundry Compound."
Particular description of goods.—Laundry Compounds in Powdered Form.
Claims use since May 1, 1914.

Ser. No. 123,609. (CLASS 39. CLOTHING.) BERT B. BREWER, New York, N. Y. Filed Oct. 10, 1919.

Holland

No claim is made to the word "Holland" apart from the mark shown in the drawing.
Particular description of goods.—Women's Hats.
Claims use since November, 1905.

Ser. No. 123,711. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PRUETT-SCHAFFER CHEMICAL COMPANY, Pittsburgh, Pa. Filed Oct. 11, 1919.

Realin

Consists of the word "Realin."
Particular description of goods.—Ready-Mixed Paints, Dry Colors, Asphalt Paint, Paint-Oil, Paint-Reducing Oils, Driers, Varnishes, and Japans.
Claims use since 1911.

Ser. No. 123,850. (CLASS 11. INKS AND INKING MATERIALS.) JOSEPH M. HUBER, New York, N. Y. Filed Oct. 16, 1919.

JAMAGE

Particular description of goods.—Printing-Inks.
Claims use since May 1, 1919.

Ser. No. 123,970. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CIROLA PHONOGRAPH CORPORATION, Philadelphia, Pa. Filed Oct. 20, 1919.

CIROLA

Particular description of goods.—Phonographs.
Claims use since the 1st day of July, 1919.

Ser. No. 123,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLADNEY MILLING COMPANY, Sherman, Tex. Filed Oct. 20, 1919.



No claim being made to the word "Purest" apart from the mark as shown.
Particular description of goods.—Wheat-Flour.
Claims use since Aug. 1, 1913.

Ser. No. 123,981. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HOFSTRA MANUFACTURING COMPANY, Tulsa, Okla. Filed Oct. 20, 1919.

HOFSTRA



Particular description of goods.—Grease-Eradicators in Paste Form for Removing Dirty Grease and Other Foreign Substances from the Hands and from Articles of Clothing and for Household and Commercial Use.
Claims use since on or about the 1st day of June, 1915.

Ser. No. 124,047. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) R. GINSBERG & BRO., New York, N. Y. Filed Oct. 21, 1919.

The American Girl

Particular description of goods.—Ladies' hair-nets.
Claims use since Apr. 10, 1918.

Ser. No. 124,245. (CLASS 2. RECEPTACLES. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y. Filed Oct. 28, 1919.

ALMACOA

Particular description of goods.—Wood, Fiber, and Canvas Hand-Buckets and Bins.
Claims use since Sept. 28, 1918.

Ser. No. 124,250. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y. Filed Oct. 28, 1919.

ALMACOA

Particular description of goods.—Cars and Carts for Material-Handling and Industrial Purposes; Sleds for Handling Stone and other Materials for Industrial Purposes; Trailers; Wagons; Wheelbarrows; Hand-Trucks; Mechanically-Operated Trucks, and Electric-Storage-Battery Trucks.
Claims use since Sept. 28, 1918.

Ser. No. 124,251. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y. Filed Oct. 28, 1919.

ALMACOA

Particular description of goods.—Air-Compressors, Block-Sheaves, Bucket Elevators, Bucket-Loaders, Grab-Buckets, Concrete Buckets Forming Parts of Construction Machinery, Chutes for Handling Construction Materials, Concrete-Mixers, Mortar-Mixers, Conveyers, Cranes, Derricks and Derrick-Fittings, Hoists, Elevating-Graders, Excavators, Backfillers, Grouting-Machines, Hand-Operated and Power-Operated Pumps, Lawn-Mowers, Logging-Machines, Pile-Hammers, Plows, Power-Operated Road-Rollers, Street-Sprinklers, Street-Sweepers, Road-Finishers, Road-Graders, Road-Oilers, Rock and Ore Crushers, Sawmills, Saw-Rigs, Scarifiers for Roads and Land Generally, Scrapers for Roads and Land Generally; Steam, Gasolene, and Oil Engines; Steam, Gasolene, and Oil Locomotives; Steam, Gasolene, and Hand Shovels; Picks; Steam, Gasolene, and Electric-Storage-Battery Tractors; Sifting-Screens, Assembled Portable Track and Turnouts, Turntables, Parallel Bars for Setting Up Work on Metal-Working Machines, Railway-Switches, Cableways, and Winches.

Claims use since Sept. 28, 1918.

Ser. No. 124,252. (CLASS 12. CONSTRUCTION MATERIALS.) ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y. Filed Oct. 28, 1919.

ALMACOA

Particular description of goods.—Steel Towers for General Use; Concrete Forms, and Form-Clamps.

Claims use since Sept. 28, 1918.

Ser. No. 124,368. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) TIFFIN PRODUCTS, INC., Long Island City, N. Y. Filed Oct. 30, 1919.

Tiffin

Particular description of goods.—Ginger-Ale, Lemon-Soda, Cream-Soda, Root-Beer, Birch-Beer, Grape-Soda, Raspberry-Soda, and Sarsaparilla.

Claims use since Sept. 15, 1917.

Ser. No. 124,673. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIFFIN PRODUCTS, INC., Long Island City, N. Y. Filed Nov. 7, 1919.

SEPA-WRAPT

Particular description of goods.—Candies.

Claims use since Oct. 1, 1919.

Ser. No. 125,116. (CLASS 10. FERTILIZERS.) JAMES D. MACGREGOR, Stamford, Conn. Filed Nov. 20, 1919.



The words "MacGregor" and "Salairacine" and the representation of trees and their roots, as shown in the drawing, are disclaimed herein apart from the mark shown, and the said words "MacGregor" and "Salairacine" and the representations of trees and their roots are not to be considered essential features of the mark.

Particular description of goods.—A Preparation for Improving Certain Soils and Treating the Roots of Fruit and Shade Trees and Shrubbery.

Claims use since Sept. 6, 1919.

Ser. No. 125,144. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ACORN BATTERY COMPANY, Chicago, Ill. Filed Nov. 21, 1919.

ACORN

The words "Trade Mark Reg." appearing on the drawing and on the facsimiles are hereby disclaimed.

Particular description of goods.—Electric Batteries.

Claims use since July 1, 1919.

Ser. No. 125,180. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HARTMAN FURNITURE & CARPET CO., Chicago, Ill. Filed Nov. 22, 1919.

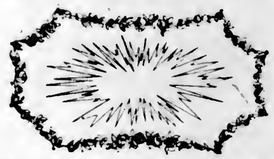
REGENT

No claim is made to the words "Trade Mark" apart from the mark shown by the drawing. No claim is made to the abbreviation "No." apart from the mark shown by the drawing.

Particular description of goods.—Phonographs and Phonograph-Cabinets.

Claims use since July 12, 1919.

Ser. No. 125,244. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RADIOR CO. LTD. OF LONDON, New York, N. Y. Filed Nov. 24, 1919.



Consisting of a panel of a purple hue, substantially as shown, with white rays radiating from the center toward the sides of the panel, said panel being surrounded by a garland of roses of pinkish hues and leaves of greenish hues.

Particular description of goods.—Forehead-Pads, Recommended for Strengthening the Facial Muscles, Eliminating Wrinkles, Crow's-Feet, and Sagging Skin, and Underchin-Pads, Recommended for Eliminating Wrinkles, Restoring Natural Youthful Contours, and Correcting Double Chin.

Claims use since November, 1913.

Ser. No. 125,256. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ST. LOUIS RUBBER CEMENT CO., St. Louis, Mo. Filed Nov. 24, 1919.

Red X

Particular description of goods.—Graphite, Soapstone, and Mica.

Claims use since about the 1st day of May, 1919.

Ser. No. 125,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY R. MOLDENHAUER, Watertown, Wis. Filed Nov. 28, 1919.

GOLD BRICK

Particular description of goods.—Brick Cheese.

Claims use since 1900.

Ser. No. 125,416. (CLASS 12. CONSTRUCTION MATERIALS.) ANTI-HYDRO WATERPROOFING COMPANY, Newark, N. J. Filed Nov. 29, 1919.

ANTI-HYDRO

No claim being made to the word "Anti-Hydro" from the mark as shown in the drawing.

Particular description of goods.—Liquid Waterproofing and Damp-Proofing and Liquid Hardener for Cement and Cement Mixtures.

Claims use since the 11th day of June, 1917.

Ser. No. 125,447. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SAMUEL ISAAC WELSHER, New York, N. Y. Filed Nov. 29, 1919.

DUZ

Consisting of the word "Duz."

Particular description of goods.—Soap Flakes for Laundrying Purposes.

Claims use since Nov. 3, 1919.

Ser. No. 125,869. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE MORRIS ADLER COMPANY, Quincy, Ill. Filed Dec. 12, 1919.

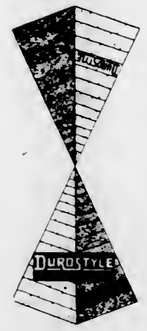
MORRIS ADLER CO "Service with a Smile"

No claim is made to the words "The Morris Adler Co." or "Service with a Smile" except in association with the rest of the mark.

Particular description of goods.—Automobiles.

Claims use since Jan. 1, 1915.

Ser. No. 126,018. (CLASS 39. CLOTHING.) I. FISHER SON & CO., Philadelphia, Pa. Filed Dec. 15, 1919.



Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since May 5, 1919.

Ser. No. 126,131. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LAUBHEIM BROS., New York, N. Y. Filed Dec. 16, 1919.

Elbras

Particular description of goods.—Watches.

Claims use since Jan. 1, 1900.

Ser. No. 126,136. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PALMYRA KNITTING COMPANY, Palmyra, N. J. Filed Dec. 16, 1919.

KNIT-KNAPS

Particular description of goods.—Women's Knit Napkins.

Claims use since Nov. 1, 1919.

Ser. No. 126,187. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MILLS BROTHERS COMPANY, Cincinnati, Ohio. Filed Dec. 17, 1919.



The head being fanciful, no claim being made to the words "Dr. Burckard's" except in the connection shown.
Particular description of goods.—Soap.
Claims use since Mar. 15, 1919.

Ser. No. 126,277. (CLASS 39. CLOTHING.) EVERETT KNITTING WORKS, Lebanon, N. H. Filed Dec. 20, 1919.

Dartmouth Mills

No claim is made to the word "Mills" apart from the mark as shown.
Particular description of goods.—Men's, Women's and Children's Knitted Underwear, Both One and Two Piece.
Claims use since about 1904.

Ser. No. 126,413. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif. Filed Dec. 24, 1919.

CEYLANDIA

Particular description of goods.—Tea.
Claims use since Dec. 1, 1919.

Ser. No. 126,422. (CLASS 37. PAPER AND STATIONERY.) PARSONS & WHITTEMORE INC., New York, N. Y. Filed Dec. 24, 1919.

AVIAN

Particular description of goods.—Writing, Printing, Blotting, and Wrapping Papers of All Grades.
Claims use since June, 1919.

Ser. No. 126,439. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN H. ARNHEIM, Pittsburgh, Pa. Filed Dec. 26, 1919.

NU-AGEN

Particular description of goods.—Cleaning-Polish for Furniture, Automobiles, Victrola Cabinets, Leather Goods, Pianos, and other Highly-Finished Surfaces.
Claims use since about Apr. 1, 1919.

Ser. No. 126,486. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LEON RUSSELL ROSE, New Haven, Conn. Filed Dec. 26, 1919.

"FILL-ME"

Consisting of the words "Fill-Me."
Particular description of goods.—Powder-Puff.
Claims use since Sept. 12, 1919.

Ser. No. 126,600. (CLASS 31. FILTERS AND REFRIGERATORS.) VISIBLE GASOLINE FILTER COMPANY, Chicago, Ill. Filed Dec. 29, 1919.

GAS-CO-LATOR

Particular description of goods.—Gasolene-Filters.
Claims use since Nov. 18, 1919.

Ser. No. 126,695. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Dec. 31, 1919.

Cadum

Particular description of goods.—Soaps.
Claims use since October, 1909.

Ser. No. 126,763. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) DETROIT STOVE WORKS, Detroit, Mich. Filed Jan. 3, 1920.



Particular description of goods.—Heating and Cooking Stoves, Furnaces, and Ranges, Using Combustible Material, Including Parts of Said Stoves, Furnaces, and Ranges.
Claims use since 1895.

Ser. No. 126,896. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COMMERCIAL SHIRT COMPANY, New York, N. Y. Filed Jan. 7, 1920. Under ten-year proviso.

Nofade
Remington

Particular description of goods.—Cotton and Silk Piece Goods.
Claims use since April, 1892.

Ser. No. 126,969. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Jan. 9, 1920.

EVEREADY

Particular description of goods.—Electric Batteries, Electric Flash-Lights, Electric Lamps for Automobiles and Flash-Lights, Dry Cells, Storage Batteries, and Electric Starters.
Claims use since May 15, 1909.

Ser. No. 126,983. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN SAFETEE SOAP CORPORATION, Brooklyn, N. Y. Filed Jan. 10, 1920.



The lining as shown on the drawing represents red, yellow, green, and blue, respectively.
Particular description of goods.—Soap, Shaving-Sticks, Shaving-Cream, Shaving-Powder.
Claims use since Dec. 1, 1919.

Ser. No. 127,047. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HAWK-EYE MFG. COMPANY, Dallas, Tex. Filed Jan. 12, 1920.

HAWK-EYE

Particular description of goods.—A Polishing Preparation for Automobiles, Carriages, Coaches, Woodwork, Floors, Furniture, and Similar Materials.
Claims use since Dec. 1, 1919.

Ser. No. 127,092. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN J. KUNZEMAN, Brooklyn, N. Y. Filed Jan. 13, 1920.

REFLECTOSCOPE

Particular description of goods.—Automobile-Mirrors.
Claims use since September, 1919.

Ser. No. 127,111. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BURNETT-LARSH MANUFACTURING COMPANY, Dayton, Ohio. Filed Jan. 14, 1920.



Particular description of goods.—Electric Motors, Electric Switches, Electrical Cut-Outs, Circuit-Breakers, Circuit-Closers, Automatic Pressure and Float Operating Electrical Control and Indicating Devices.
Claims use since about the 1st day of January, 1916.

Ser. No. 127,146. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ANDREW J. NEUBERGER, Boston, Mass. Filed Jan. 14, 1920.



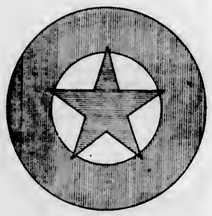
The words "Quick Clean Quality Sink Brush" being disclaimed aside and apart from the mark shown.
Particular description of goods.—House, Hat, Sink, Cuspidor, and Dish-Cleaning Brushes.
Claims use since about June 1, 1919.

Ser. No. 127,159. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE THOS. P. TAYLOR COMPANY, Bridgeport, Conn. Filed Jan. 14, 1920.



The words "The Mens Garter" as appearing on the drawing are disclaimed apart from the other features of the mark shown.
Particular description of goods.—Garters.
Claims use since September, 1915.

Ser. No. 127,212. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GREAT NORTHERN TOY CO. INC., New York, N. Y. Filed Jan. 16, 1920.



The trade-mark in label form consists of an outer circle, red in color, an inner field of white, and a blue star arranged in the field of white.

Particular description of goods.—Toy Hydro- and Aero-Planes.

Claims use since Feb. 24, 1919.

Ser. No. 127,219. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LINCOLN PAINT & COLOR CO., Lincoln, Nebr. Filed Jan. 16, 1920.



No claim is made to exclusive use of the words "Paints and Varnishes" apart from the mark shown in the drawing.

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Varnishes, Floor-Wax, Putty, Turpentine, Auto-Polish, Furniture-Polish, Calcimine, Zinc-White, Sheep-Marking Liquid, Zinc in Oil, Venetian Oxid, Paint and Varnish Removers, Dry Lead, Lead in Oil, Paint Primers, Enamel Paints, Wood-Stains, Calcimine-Whiting, Paint-Oils, Paint and Varnish Driers, Paint-Pigments, Wood-Fillers, Dry Colors, Colors in Oil, and Prepared Shellac.

Claims use since June 16, 1910.

Ser. No. 127,297. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR I. LUDWIG, New York, N. Y. Filed Jan. 19, 1920.

Vello

Particular description of goods.—Textile Fabrics—Namely, Cotton Piece Goods.

Claims use since the 1st of March, 1919.

Ser. No. 127,357. (CLASS 39. CLOTHING.) COOPER UNDERWEAR COMPANY, Kenosha, Wis. Filed Jan. 20, 1920.

Coopers

A facsimile signature of Henry S. Cooper.

Particular description of goods.—Hosiery.

Claims use since some time during February, 1915.

Ser. No. 127,361. (CLASS 39. CLOTHING.) FORD MANUFACTURING CO., Waterford, N. Y. Filed Jan. 20, 1920. Under ten-year proviso.

FORD

Particular description of goods.—Knitted Underwear, as Follows: Two-Piece Garments and Union-Suits for Men and Boys.

Claims use since about the year 1891.

Ser. No. 127,424. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CLEVELAND IGNITION COMPANY, Cleveland, Ohio. Filed Jan. 21, 1920.



The words "Starting," "Lighting," and "Ignition" are hereby disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Ignition Systems for Automobiles and Repair Parts Therefor, Electric-Lighting Systems for Automobiles and Repair Parts Therefor, Magnetos for Automobiles and Repair Parts Therefor.

Claims use since Aug. 1, 1919.

Ser. No. 127,451. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SPECIALTY KNIT GOODS MANUFACTURING CO., Brooklyn, N. Y. Filed Jan. 21, 1920.



"Rainbow Knitted Tweed." No claim is made for the words "Knitted Tweed" apart from the mark shown on the drawing.

Particular description of goods.—Knitted Fabrics of Wool.

Claims use since March, 1918.

Ser. No. 127,457. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EDWARD MILLER & Co., Meriden, Conn. Filed Jan. 22, 1920.

MILLER

Particular description of goods.—Electric-Lighting Fixtures and Electric Lamps.

Claims use since August, 1919.

Ser. No. 127,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BROTHERS COMPANY, INC., Rochester, N. Y. Filed Jan. 22, 1920.

GOOD LUCK

Particular description of goods.—Baked Goods—Namely, Bread.

Claims use since the year 1912.

Ser. No. 127,570. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE AMERICAN PIN COMPANY, Waterbury, Conn. Filed Jan. 26, 1920.

EUREKA

Particular description of goods.—Snap-Fasteners.

Claims use since on or about the 1st day of November, 1895.

Ser. No. 127,605. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RED TOP ELECTRIC COMPANY, INC., New York, N. Y. Filed Jan. 26, 1920.

Plugall

Particular description of goods.—Electric Stoves and Toasters.

Claims use since Dec. 30, 1919.

Ser. No. 127,704. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SUFFOLK BREWING COMPANY, Boston, Mass. Filed Jan. 28, 1920.



Particular description of goods.—A Cereal Malt Beverage.

Claims use since July 1, 1918.

Ser. No. 127,757. (CLASS 2. RECEPTACLES.) HAMMOND IRON WORKS, Warren, Pa. Filed Jan. 30, 1920.



Particular description of goods.—Oil-Tanks.

Claims use since March, 1916.

Ser. No. 127,786. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SUFFOLK BREWING COMPANY, Boston, Mass. Filed Jan. 30, 1920.



Particular description of goods.—A Cereal Malt Beverage.

Claims use since Oct. 30, 1916.

Ser. No. 127,869. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN J. REARDON, Philadelphia, Pa. Filed Feb. 2, 1920.

CELTIC

Particular description of goods.—Ginger-Ale, Ginger-Beer, Sarsaparilla, and Club-Soda.

Claims use since Jan. 1, 1920.

Ser. No. 127,881. (CLASS 31. FILTERS AND REFRIGERATORS.) THE ALASKA REFRIGERATOR COMPANY, Muskegon, Mich. Filed Feb. 3, 1920.

ICELAND
MUSKEGON, MICH.

No claim is made to the word "Muskegon" or the abbreviation "Mich." apart from the mark shown in the drawing.

Particular description of goods.—Refrigerators.

Claims use since Mar. 1, 1905.

Ser. No. 127,897. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHEN & EHRENBERG, New York, N. Y. Filed Feb. 3, 1920.



Particular description of goods.—A Light-Weight All-Wool Worsted in the Piece in Various Patterns and Colors.

Claims use since Jan. 1, 1920.

Ser. No. 127,924. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LASH'S BITTERS CO., New York, N. Y. Filed Feb. 3, 1920. Under ten-year proviso.

HOMER'S

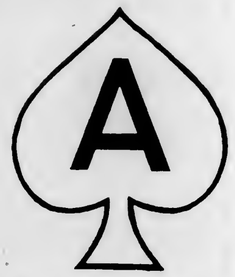
Particular description of goods.—A Non-Alcoholic Beverage.
Claims use since 1892.

Ser. No. 127,983. (CLASS 11. INKS AND INKING MATERIALS.) H. GEORGE TILLEMAN, New York, N. Y. Filed Feb. 4, 1920.

PARAMOUNT

Particular description of goods.—Carbon Papers and Inked Ribbons.
Claims use since Jan. 13, 1920.

Ser. No. 127,990. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Feb. 5, 1920.



Particular description of goods.—Hard-Rubber Pipe-Bits, Hard-Rubber Cigar-Holders, and Hard-Rubber Cigarette-Holders.
Claims use since Feb. 2, 1920.

Ser. No. 127,994. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BOONVILLE MINERAL SPRING CO., Utica, and Boonville, N. Y. Filed Feb. 5, 1920.

SNO-TOP



Particular description of goods.—Spring-Water Carbonated Water, Distilled Water, and Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Sept. 1, 1919.

Ser. No. 128,042. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE CARDINAL CABINET COMPANY, Wabash, Ind. Filed Feb. 6, 1920.

The Cardinal

Particular description of goods.—Parts of Musical Instruments, and Particularly Phonograph-Cabinets and Wooden Horns Forming Parts Thereof.
Claims use since 1915.

Ser. No. 128,043. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE CHUTE & BUTLER CO., Peru, Ind. Filed Feb. 6, 1920.

ARTISTIC PIANOS CB OF QUALITY

No claim being made to exclusive use of the words "Artistic Pianos of Quality" apart from the mark as shown in the drawing.
Particular description of goods.—Pianos.
Claims use since Jan. 1, 1918.

Ser. No. 128,061. (CLASS 37. PAPER AND STATIONERY.) HENRY LINDENMEYR & SONS, New York, N. Y. Filed Feb. 5, 1920.

Dragon

Particular description of goods.—Printing-Paper and Writing-Paper.
Claims use since Feb. 4, 1899.

Ser. No. 128,070. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ANDERSEN, MEYER & CO., LTD., New York, N. Y. Filed Feb. 7, 1920.

CERVIS

Particular description of goods.—Toothbrushes.
Claims use since April, 1919.

Ser. No. 128,131. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALFRED WALDEMAR ANDERSON, St. Paul, Minn. Filed Feb. 9, 1920.

Pal-o-Mine

Particular description of goods.—Children's Sleds and Wheeled Coasters.
Claims use since Jan. 26, 1920.

Ser. No. 128,195. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS. AUTOMOTIVE SUPPLY COMPANY, Dallas, Tex. Filed Feb. 10, 1920.

CACTUS

Particular description of goods.—Gum-Shellac.
Claims use since about May 1, 1919.

Ser. No. 128,225. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Shopping-Bags, Chatelaine-Bags, Suitcases, Traveling-Bags, Vanity-Bags, Portfolios, Purses and Pocket-Books, Riding Crops and Whips, Stirrups.
Claims use since 1868.

Ser. No. 128,275. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 11, 1920.



The lines on the drawing are for shading only and not for color, no claim being made for the word "Pulp" except as shown in the drawing.
Particular description of goods.—Paper-Pulp.
Claims use since Jan. 31, 1920.

Ser. No. 128,308. (CLASS 39. CLOTHING.) KIMBALL & SHERMAN COMPANY, Haverhill, Mass. Filed Feb. 12, 1920.



HAPPINESS IN POSSESSION
HAPPINESS IN OCCUPATION

Particular description of goods.—Leather Boots and Shoes.
Claims use since Jan. 26, 1920.

Ser. No. 128,397. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MINNIE M. MELDRAM, New York, N. Y. Filed Feb. 14, 1920.



Particular description of goods.—Dolls.
Claims use since Nov. 28, 1919.

Ser. No. 128,446. (CLASS 39. CLOTHING.) JOHN H. KELLEHER, Randolph, Mass. Filed Feb. 16, 1920.

Snookums

Particular description of goods.—Boots, Shoes, Slippers, and Sandals Made of Leather, Rubber, Fabric, and Combinations of the Same.
Claims use since Jan. 15, 1920.

Ser. No. 128,521. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ARTHUR WELLS RICHARDS, West Hartford, Conn. Filed Feb. 17, 1920.



No claim being made to exclusive use of the representation of a windshield apart from the other features of the mark as shown.
Particular description of goods.—Compounds Used for Cleansing, Polishing, and Burnishing the Surfaces of Metal and Glass.
Claims use since Jan. 31, 1920.

Ser. No. 128,529. (CLASS 11. INKS AND INKING MATERIALS.) JOHN F. SOBY, New York, N. Y. Filed Feb. 17, 1920.

Compo
(Concentrated Powder)

No claim is made to the words "Concentrated Powder" apart from the mark shown in the drawing.
Particular description of goods.—Writing-Ink in Powdered Form.
Claims use since the 1st day of January, 1920.

Ser. No. 128,542. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CITRUS SOAP COMPANY, San Diego, Calif. Filed Feb. 18, 1920. Under ten-year proviso.

•CALIFORNIA•

Particular description of goods.—Washing-Powder.
Claims use since during the year 1893.

Ser. No. 128,551. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE HORTON MANUFACTURING CO., Bristol, Conn. Filed Feb. 18, 1920.

LUCKIE

Particular description of goods.—Fishing-Lines.
Claims use since Jan. 21, 1920.

Ser. No. 128,598. (CLASS 12. CONSTRUCTION MATERIALS.) DETROIT SHOW CASE COMPANY, Detroit, Mich. Filed Feb. 19, 1920.

Desco

Particular description of goods.—Knockdown Store-Fronts and Parts Thereof—Namely, Bulkheads, Sills, Lintels, Transoms, Corner-Bars, Division-Bars, and Sash-Bars.
Claims use since May, 1917.

Ser. No. 128,602. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES. FREDERICK HEILMAN COMPANY, Johnstown, Pa. Filed Feb. 19, 1920.

MAN•HEIL

Particular description of goods.—Inhalers.
Claims use since October, 1919.

Ser. No. 128,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. C. GATLIN COMPANY, Kansas City, Mo. Filed Feb. 24, 1920.

Excelo

Particular description of goods.—Prepared Cake Mixture.
Claims use since February, 1919.

Ser. No. 128,814. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN AGGREGATE COMPANY, Kansas City, Mo. Filed Feb. 24, 1920.

HAYDITE

Particular description of goods.—Aggregate for Use in Preparing Concrete.
Claims use since Jan. 9, 1920.

Ser. No. 128,828. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY-BROWN CO., Glendale, Calif. Filed Feb. 24, 1920.

Sierra Club
H·B

Particular description of goods.—Ginger-Ale, Grape-Punch, Root-Beer, Orange-Punch, Cherry-Punch, Lemon-Punch, Lemon Sour, Apple Cider, and other Soft Drinks Having Loganberry Flavor, Lemon Flavor, Strawberry Flavor, Cream Flavor, El Porto Flavor, Orange-Blossom Flavor, Cherry-Blossom Flavor.
Claims use since May 15, 1916.

Ser. No. 128,839. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GOLD FISH GINGER ALE COMPANY, Pocatello, Idaho. Filed Feb. 24, 1920.



Particular description of goods.—Ginger-Ale.
Claims use since June 2, 1917.

Ser. No. 128,848. (CLASS 39. CLOTHING.) THE LORAIN RUBBER HEEL COMPANY, Lorain, Ohio. Filed Feb. 24, 1920.

Heather

Consisting of the word "Heather."
Particular description of goods.—Rubber Heels.
Claims use since Dec. 8, 1919.

Ser. No. 128,877. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) COOZIE BRITTON, Higginsville, Mo. Filed Feb. 25, 1920.



Particular description of goods.—Sets of Cards for Playing Games.
Claims use since Jan. 1, 1920.

Ser. No. 128,959. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Feb. 27, 1920.

Peruvia

Consisting of the word "Peruvia."
Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 1, 1920.

Ser. No. 129,000. (CLASS 39. CLOTHING.) BELL MANUFACTURING COMPANY, Winder, Ga. Filed Feb. 28, 1920.



Particular description of goods.—Overalls, Overall Shirts, Jackets, and Pants.
Claims use since July 25, 1915.

Ser. No. 129,010. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK FRANCIS, Seattle, Wash. Filed Feb. 28, 1920.



Particular description of goods.—Washing Compounds, and Particularly Washing-Tablets.
Claims use since Aug. 15, 1919.

Ser. No. 129,013. (CLASS 39. CLOTHING.) IMPERIAL HOSIERY CO., Pittsburgh, Pa. Filed Feb. 28, 1920.

Penrod

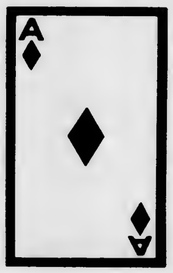
The picture of the boy being fanciful.
Particular description of the goods.—Boys' Stockings.
Claims use since December, 1919.

Ser. No. 129,102. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED STATES ELECTRIC MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 1, 1920.



No claim being made for the representation of a flash-light apart from the mark as shown in the drawing.
Particular description of goods.—Flash-Light Cases and Electric Batteries.
Claims use since Oct. 15, 1918.

Ser. No. 129,125. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) CLELLAN L. CARD, Philadelphia, Pa. Filed March 2, 1920.



Particular description of goods.—Toothbrushes.
Claims use since Feb. 9, 1920.

Ser. No. 129,146. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JENNINGS LACE WORKS CORP., Brooklyn, N. Y. Filed Mar. 2, 1920.



Consisting of the representation of an open book and the words "The Story of Page Silks," no claim being made to the exclusive use of the word "Silks" apart from the mark as shown in the drawing.

Particular description of goods.—Dress-Nets—viz., Plain or Fancy Lace Net Piece Goods Manufactured from Silk or Cotton, Millinery-Nettings in the Piece, Hair-Nets, Veilings, Lace Veils, Mourning-Veils, Flouncings in the Piece for Complete Garments, Silk and Cotton Jersey Cloths in the Piece, Milanese Silk and Cotton Cloths in the Piece, Wood-Fiber Cloths in the Piece, and Embroidered-All-Over Piece Goods.

Claims use since Nov. 3, 1919.

Ser. No. 129,166. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE E. A. BLISS COMPANY, Meriden, Conn. Filed Mar. 3, 1920.

BLISS

Particular description of goods.—Combs of Celluloid, Carved or Decorated.

Claims use since Sept. 5, 1919.

Ser. No. 129,192. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Mar. 3, 1920.

Pedi-Poise

Particular description of goods.—Shoes Manufactured of Leather, Fabrics, and Combinations of Leather and Fabrics.

Claims use since Feb. 2, 1920.

Ser. No. 129,239. (CLASS 39. CLOTHING.) THE MARYLAND COMPANY, Baltimore, Md. Filed Mar. 4, 1920.

"KID-IN-ALL"

Particular description of goods.—Children's Overall Play-Suits.

Claims use since Dec. 1, 1918.

Ser. No. 129,272. (CLASS 39. CLOTHING.) MERCHANTS TRADE ASSOCIATION COMPANY, Chicago, Ill. Filed Mar. 5, 1920.

EASENWEAR

Particular description of goods.—Leather Boots and Shoes.

Claims use since on or about Feb. 26, 1920.

Ser. No. 129,278. (CLASS 5. ADHESIVES.) ALBERT OLMSTEAD, Philadelphia, Pa. Filed Mar. 5, 1920.

GO CO

Particular description of goods.—Oil for Use in Making Cores in Foundries.

Claims use since Oct. 1, 1919.

Ser. No. 129,280. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

YANCO

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,281. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

VIDIN

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,282. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

WOLGA

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,283. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

PALMA

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,284. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

OVADA

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,285. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

XERES

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,286. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 5, 1920. Under ten-year proviso.

ZANTE

Particular description of goods.—Rosin.

Claims use since 1880.

Ser. No. 129,311. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 6, 1920.

FRISSON

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since on or about the 5th day of December, 1919.

Ser. No. 129,312. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 6, 1920.

PLAYBOWCOU

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since on or about the 5th day of December, 1919.

Ser. No. 129,314. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 6, 1920.

MUSETTE

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since on or about the 5th day of December, 1919.

Ser. No. 129,315. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 6, 1920.

UMPELA

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since on or about the 5th day of December, 1919.

Ser. No. 129,316. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 6, 1920.

HAWKSAYBO

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since on or about the 5th day of December, 1919.

Ser. No. 129,318. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PAUL FORBRIGER & CO., New York, N. Y. Filed Mar. 6, 1920.

ARGON

Particular description of goods.—Watches, Watchcases, Watchworks, and Dials.

Claims use since Oct. 25, 1919.

Ser. No. 129,339. (CLASS 36. MUSICAL INSTRUMENTS, AND SUPPLIES.) LYON & HEALY, Chicago, Ill. Filed Mar. 6, 1920.

TRIJO

Particular description of goods.—Banjos, Mandolins, Guitars, and Ukulele-Banjos.
Claims use since Nov. 11, 1919.

Ser. No. 129,346. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 6, 1920. Under ten-year proviso.

UDINE

Particular description of goods.—Rosin.
Claims use since 1880.

Ser. No. 129,347. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 6, 1920. Under ten-year proviso.

TRINO

Particular description of goods.—Rosin.
Claims use since 1880.

Ser. No. 129,348. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 6, 1920. Under ten-year proviso.

REGEN

Particular description of goods.—Rosin.
Claims use since 1880.

Ser. No. 129,349. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 6, 1920. Under ten-year proviso.

QUERO

Particular description of goods.—Rosin.
Claims use since 1880.

Ser. No. 129,350. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSIN & TURPENTINE EXPORT COMPANY, New York, N. Y., and Savannah, Ga. Filed Mar. 6, 1920. Under ten-year proviso.

SEPHO

Particular description of goods.—Rosin.
Claims use since 1880.

Ser. No. 129,360. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE VAN DORN ELECTRIC TOOL COMPANY, Cleveland, Ohio. Filed Mar. 6, 1920.

"VanDorn"

Comprising an autographic signature of T. B. Van Dorn, vice-president of the applicant company.
Particular description of goods.—Electric Motors and Bases, Frames, Mountings, and Windings Therefor, and Electrically-Operated Tools Comprising Drilling, Grinding, Reaming, and Buffing Machines.
Claims use since Dec. 20, 1919.

Ser. No. 129,454. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEBOW & CO., Newark, N. J. Filed Mar. 9, 1920.

GOLD NUGGET

Particular description of goods.—Eggs.
Claims use since about Oct. 1, 1916.

Ser. No. 129,456. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES H. DUNHAM & CO., New York, N. Y. Filed Mar. 9, 1920.

ELECTRIC

Particular description of goods.—Velvet Piece Goods.
Claims use since 1907.

Ser. No. 129,481. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WALDES & CO., INC., Long Island City, and New York, N. Y. Filed Mar. 9, 1920.

Waldes META LOK TAPE

No claim is made herein to the use of the word "Tape" apart from the mark as shown by the drawing.
Particular description of goods.—Metal Tape for Binding Packages.
Claims use since Feb. 4, 1920.

Ser. No. 129,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DONMEYER, GARDNER CO., Peoria, Ill. Filed Mar. 10, 1920.

FARMERS CHOICE

Particular description of goods.—Mixed Feeds for Horses, Cattle, Hogs, Dairy-Cows, and Poultry.
Claims use since Feb. 16, 1920.

Ser. No. 129,567. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PIANO MOTORS CORPORATION, Camden, N. J. Filed Mar. 11, 1920.

MOTORA

The field surrounding the silhouette of the machine is blue.
Particular description of goods.—Electrically-Operated Vacuum-Creating Apparatus for Player-Pianos.
Claims use since Jan. 1, 1920.

Ser. No. 129,641. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE NAPCO CORPORATION, Indianapolis, Ind. Filed Mar. 13, 1920.

Barbasol

Particular description of goods.—A Pastelike Preparation for Shaving and Skin-Healing Purposes.
Claims use since September, 1919.

Ser. No. 129,721. (CLASS 12. CONSTRUCTION MATERIALS.) IRVING IRON WORKS COMPANY, Long Island City, N. Y. Filed Mar. 15, 1920.

SUNWAY

Particular description of goods.—Metal Gratings for Floorings and Staircases.
Claims use since the 20th day of February, 1920.

Ser. No. 129,745. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Mar. 15, 1920.

JABON LUNA

No claim is made for the word "Jabon" apart from the mark shown in the drawing.
Particular description of goods.—Soap.
Claims use since Aug. 29, 1911.

Ser. No. 129,768. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILKIN & ADLER, New York, N. Y. Filed Mar. 15, 1920.

FLEXTILE

Consisting of the word "Flextile."
Particular description of goods.—Jersey Knit Cloth in the Piece.
Claims use since Mar. 2, 1920.

Ser. No. 129,776. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BELCLEAR PHONOGRAPH CORPORATION, New York, N. Y. Filed Mar. 16, 1920.

Belclear

Particular description of goods.—Phonographs or Talking-Machines, Talking-Machine Records and Talking-Machine-Record Cabinets, and Talking-Machine Needles.
Claims use since July 25, 1919.

Ser. No. 129,795. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PACIFIC COAST BORAX CO., New York, N. Y. Filed Mar. 16, 1920.

LAUNDRAX

Particular description of goods.—Soap and Soap Chips.
Claims use since Feb. 20, 1920.

Ser. No. 129,834. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Mar. 17, 1920.

Veldyne

Consisting of the word "Veldine."
Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1920.

Ser. No. 129,895. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOSEPHINE JANES CO., Lynbrook and New York, N. Y. Filed Mar. 18, 1920.

"SLUMBER TOYS"

Consisting of the words "Slumber Toys," no claim being made to the exclusive use of the word "Toys" apart from the mark shown in the drawing.
Particular description of goods.—Dolls.
Claims use since July 28, 1919.

Ser. No. 129,975. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Mar. 20, 1920.

Graciella

Consisting of the word "Graciella."
Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1920.

Ser. No. 130,055. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERFECTION BISCUIT COMPANY, Fort Wayne, Ind. Filed Mar 22, 1920.

CHERRY DIPS

Particular description of goods.—Cake.
Claims use since Nov. 1, 1917.

Ser. No. 130,123. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HARRY M. WHITMAN, Canton, Pa. Filed Mar. 24, 1920.

Reeco

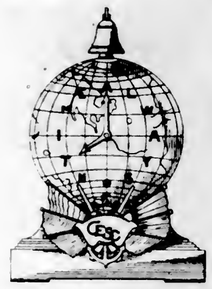
Particular description of goods.—Unitary Electric-Lighting Plants and Parts Thereof.
Claims use since Mar. 22, 1919.

Ser. No. 130,186. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MABEL WATERMAN, New Rochelle, N. Y. Filed Mar. 25, 1920.

PETER BUNNY

Particular description of goods.—Toy Animals.
Claims use since Mar. 1, 1920.

Ser. No. 130,210. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1920.



Particular description of goods.—Bath-Bricks, Black-Lead for Polishing, Carborundum, Emery-Cloth, Emery Powder, Emery-Wheels, Oilstone, Rags for Dusting and Polishing, Sandpaper, Sapollo; Soap, (Brown;) Soap, (White Floating;) Soap, (Soft;) Soap, (Salt Water;) Holystones, and Polish, (Abrasive.)
Claims use since about October, 1918.

Ser. No. 130,256. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISLEY ACKER CO., Philadelphia, Pa. Filed Mar. 27, 1920.



Particular description of goods.—Barley, Buckwheat, Cornmeal, Corn-Starch, Cracked Wheat, Farina, Wheat and Rye Flour, Hominy, Oatmeal, Rice, and Tapioca.
Claims use since about Sept. 17, 1894.

Ser. No. 130,265. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. BROWN & SON (BLACKING & BOOT POLISH MANUFACTURERS) LIMITED, London, England. Filed Mar. 27, 1920.



Particular description of goods.—Polishes for Cleaning, Preserving, and Polishing Leather and Enameled Goods.
Claims use since June, 1919.

Ser. No. 130,309. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHED MATERIALS.) M W M SOAP CO., San Jose, Calif. Filed Mar. 22, 1920.

MWM

Particular description of goods.—Soap.
Claims use since Mar. 8, 1920.

Ser. No. 130,315. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BABIES DISPENSARY & HOSPITAL OF CLEVELAND, Cleveland, Ohio. Filed Mar. 29, 1920.

S. M. A.

Particular description of goods.—Prepared Milk Food Used in the Feeding of Infants.
Claims use since Jan. 9, 1920.

Ser. No. 130,363. (CLASS 5. ADHESIVES.) DEWEY & ALMY CHEMICAL COMPANY, Cambridge, Mass. Filed Mar. 30, 1920.

GRIPPIT

Particular description of goods.—Adhesives, Including Cement, Glue, and Mucilage, Suitable for Many Uses, Including Uniting Articles of Leather, Paper, Rubber, and other Materials.
Claims use since Mar. 6, 1920.

Ser. No. 130,411. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EMBEE DISTRIBUTING COMPANY, New York, N. Y. Filed Mar. 31, 1920.

Bringing Up Father

Particular description of goods.—Games Played with Counters on a Game-Board.
Claims use since Mar. 20, 1920.

Ser. No. 130,433. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

UP TO DATE

The words "Up to Date."
Particular description of goods.—Candy.
Claims use since May, 1917.

Ser. No. 130,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

SAGAMORE

The word "Sagamore."
Particular description of goods.—Candy.
Claims use since May 1, 1909.

Ser. No. 130,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

FRUIT-BASKET

The words "Fruit Basket."
Particular description of goods.—Candy.
Claims use since June, 1914.

Ser. No. 130,436. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

SHAWMUT

The word "Shawmut."
Particular description of goods.—Candy.
Claims use since January, 1910.

Ser. No. 130,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

High Brow

The words "High Brow."
Particular description of goods.—Candy.
Claims use since March, 1917.

Ser. No. 130,442. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

BACKBAY

The words "Back Bay."
Particular description of goods.—Candy.
Claims use since 1905.

Ser. No. 130,443. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

WHITE-CLOUD

The words "White Cloud."
Particular description of goods.—Candy.
Claims use since April, 1913.

Ser. No. 130,444. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

THE COPLEY

The words "The Copley."
Particular description of goods.—Candy.
Claims use since Mar. 1, 1914.

Ser. No. 130,445. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

THE CHIEFTAIN

The words "The Chieftain."
Particular description of goods.—Candy.
Claims use since March, 1911.

Ser. No. 130,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

The Maid of Honor

The words "The Maid of Honor."
Particular description of goods.—Candy.
Claims use since January, 1915.

Ser. No. 130,503. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 2, 1920.

FIDES

Particular description of goods.—Lead-Pencils.
Claims use since June 18, 1903.

Ser. No. 130,504. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 2, 1920.

AUTOGRAPH

Particular description of goods.—Lead-Pencils.
Claims use since January, 1900.

Ser. No. 130,505. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 2, 1920.

INDIAN

Particular description of goods.—Lead-Pencils.
Claims use since Dec. 21, 1903.

Ser. No. 130,506. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 2, 1920.

Senator

The trade-mark consists in the word "Senator."
Particular description of goods.—Lead-Pencils.
Claims use since January, 1895.

Ser. No. 130,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEARDSTOWN GROCER CO., Beardstown, Ill. Filed Apr. 3, 1920.

SAILOR GAP

Particular description of goods.—Canned Vegetables—Namely, Hominy, Red Kidney-Beans, Sweet Corn, Peas, and Tomatoes.
Claims use since May, 1919.

Ser. No. 130,573. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. D. BUCHANAN CO., Greenville, Ohio. Filed Apr. 3, 1920.

Buchanan's CHERRY VAMP

Particular description of goods.—Chocolate Candy.
Claims use since Jan. 28, 1920.

Ser. No. 130,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FARGO MERCANTILE CO., Fargo, N. D. Filed Apr. 3, 1920.

RED TRAIL

Particular description of goods.—Coffee.
Claims use since Feb. 4, 1920.

Ser. No. 130,594. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed Apr. 3, 1920.

ROYAL SPRAYED

Particular description of goods.—Milk Powder.
Claims use since Feb. 10, 1920.

Ser. No. 130,595. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUSSELL HOLMAN, Minneapolis, Minn. Filed Apr. 3, 1920.

CO-CE-RA

Particular description of goods.—A Coffee Substitute.
Claims use since about the 15th day of October, 1919.

Ser. No. 130,599. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KAUAI FRUIT & LAND CO., Honolulu, Territory of Hawaii. Filed Apr. 3, 1920.

GOLDEN SHOWER

Particular description of goods.—Canned Fruits—Namely, Canned Pineapples.
Claims use since Feb. 17, 1920.

Ser. No. 130,619. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAURICE ROSENTHAL, San Francisco, Calif. Filed Apr. 3, 1920.

MAROSA BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Coffee.
Claims use since Sept. 7, 1918.

Ser. No. 130,620. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROYAL PACKING CO., Los Angeles, Calif. Filed Apr. 3, 1920.

13 UNLUCKY FOR DIRT

Particular description of goods.—Soap.
Claims use since Dec. 15, 1919.

Ser. No. 130,624. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIOUX CANDY CO., Sioux City, Iowa. Filed Apr. 3, 1920.

Soo-Preme

Particular description of goods.—Candy.
Claims use since Nov. 15, 1919.

Ser. No. 130,708. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KEINER & POHL COMPANY, Milwaukee, Wis. Filed Apr. 5, 1920.

KEPECO

Particular description of goods.—Leather-Dressings.
Claims use since Feb. 1, 1919.

Ser. No. 130,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CATAWBA CANDY CO., Sandusky, Ohio. Filed Apr. 6, 1920.

GENERAL GOFAST

Particular description of goods.—Candy.
Claims use since September, 1919.

Ser. No. 130,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CATAWBA CANDY CO., Sandusky, Ohio. Filed Apr. 6, 1920.

BROWN DICKEY

Particular description of goods.—Candy.
Claims use since March, 1919.

Ser. No. 130,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CATAWBA CANDY CO., Sandusky, Ohio. Filed Apr. 6, 1920.

REAL STUFF

Particular description of goods.—Candy.
Claims use since January, 1912.

Ser. No. 130,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLINS-HENCKE CANDY CO., San Francisco, Calif. Filed Apr. 6, 1920.

COLEXPO

Particular description of goods.—Candy.
Claims use since Feb. 28, 1920.

Ser. No. 130,731. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK O. QUINN, Omaha, Nebr. Filed Apr. 6, 1920.



Particular description of goods.—Washing-Powder.
Claims use since Jan. 1, 1920.

Ser. No. 130,748. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BAKERS PRODUCTS COMPANY, Cleveland, Ohio. Filed Apr. 7, 1920.

PANTROVIDE

Particular description of goods.—An Oil Compound Used in the Baking of Food Products as a Pan, Trough, and Divider Grease.
Claims use since Feb. 20, 1920.

Ser. No. 130,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BERDAN COMPANY, Toledo, Ohio. Filed Apr. 8, 1920.

RED-E-JEL

The letter "E" is in red.
Particular description of goods.—Table-Desserts.
Claims use since Feb. 10, 1920.

Ser. No. 130,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CATAWBA CANDY CO., Sandusky, Ohio. Filed Apr. 8, 1920.

MAJOR SELLER

Particular description of goods.—Candy.
Claims use since September, 1919.

Ser. No. 130,813. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FAGEOL MOTORS COMPANY, Oakland, Calif. Filed Apr. 8, 1920.

FAGEOL

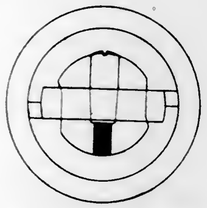
Particular description of goods.—Tractors.
Claims use since July, 1916.

Ser. No. 130,833. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUGGINS CANDY CO., Nashville, Tenn. Filed Apr. 8, 1920.

BABY BUNTING

Particular description of goods.—Candy.
Claims use since September, 1899.

Ser. No. 130,834. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE KELLY REAMER COMPANY, Cleveland, Ohio. Filed Apr. 8, 1920.



Particular description of goods.—Reamers.
Claims use since about January, 1919.

Ser. No. 130,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REESE & COMPANY, Atlanta, Ga. Filed Apr. 9, 1920.



Particular description of goods.—Candy.
Claims use since Feb. 1, 1920.

Ser. No. 130,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMBEE DISTRIBUTING COMPANY, New York, N. Y. Filed Apr. 10, 1920.

Bringing Up Father

Particular description of goods.—Candy.
Claims use since Mar. 27, 1920.

Ser. No. 130,993. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHUTTER-JOHNSON CANDY CO., Chicago, Ill. Filed Apr. 10, 1920.

Silver Cloud

Particular description of goods.—Candies.
Claims use since Jan. 2, 1919.

Ser. No. 131,002. (CLASS 37. PAPER AND STATIONERY.) WARE COATED PAPER COMPANY, Ware, Mass. Filed Apr. 10, 1920.

RELYON

Particular description of goods.—Proofing-Paper.
Claims use since January, 1914.

Ser. No. 131,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOS. B. MURPHY SONS, St. Louis, Mo. Filed Apr. 12, 1920.

LA TOSCA

Particular description of goods.—Chocolate Rolls and Candies.
Claims use since about Jan. 30, 1920.

Ser. No. 131,041. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. FRED REGENNAS & SONS COMPANY, INC., Lititz, Pa. Filed Apr. 12, 1920.



Particular description of goods.—Candy.
Claims use since 1900.

Ser. No. 131,065. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON WIRE STITCHER COMPANY, East Greenwich, R. I. Filed Apr. 13, 1920.

BOSTITCH

The trade-mark consists of the word "Bostitch."
Particular description of goods.—Wire Stitching or Stapling Machines and Parts Thereof.
Claims use since Nov. 18, 1919.

Ser. No. 131,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR J. LAWTON, Rockford, Ill. Filed Apr. 13, 1920.

ELECTRIK

Consisting of the word "Electrik."
Particular description of goods.—Bread.
Claims use since January, 1920.

Ser. No. 131,101. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETERPACK CANNING CO., Decoto, Calif. Filed Apr. 14, 1920.

BETERPACK

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Mar. 8, 1920.

Ser. No. 131,104. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHATTANOOGA PLOW COMPANY, Chattanooga, Tenn. Filed Apr. 14, 1920. Under ten-year proviso.

CHATTANOOGA

Particular description of goods.—Plows and Cane-Mills and Separate Parts for Each of Said Machines.
Claims use since 1883.

Ser. No. 131,111. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PAUL M. HOOVEN, New York, N. Y. Filed Apr. 14, 1920.



Particular description of goods.—Typewriters.
Claims use since Oct. 1, 1915.

Ser. No. 131,112. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Apr. 14, 1920.

VOLUNTEER

Particular description of goods.—Cultivators and Separate Parts for Each of Said Machines.
Claims use since 1888.

Ser. No. 131,114. (CLASS 37. PAPER AND STATIONERY.) MAURICE LEVY, New York, N. Y. Filed Apr. 14, 1920.

HYGIENOL

Particular description of goods.—Paper Towels.
Claims use since September, 1919.

Ser. No. 131,139. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES R. WRIGHT, Trenton, Mo. Filed Apr. 14, 1920.

PEP

Particular description of goods.—Additional Air-Preheaters for Internal-Combustion Engines.
Claims use since Oct. 16, 1917.

Ser. No. 131,145. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARDINET CANDY CO., Oakland, Calif. Filed Apr. 15, 1920.

RED HEAD

Particular description of goods.—Candy.
Claims use since Mar. 12, 1920.

Ser. No. 131,154. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB DOLD PACKING CO., Buffalo, N. Y. Filed Apr. 15, 1920. Under ten-year proviso.

WHITE ROSE

Particular description of goods.—Lard.
Claims use since the year 1869.

Ser. No. 131,188. (CLASS 43. THREAD AND YARN.) A. H. RICE COMPANY, Pittsfield, Mass. Filed Apr. 15, 1920. Under ten-year proviso.

RICE'S SEWING SILK

Particular description of goods.—Silk Thread and Yarn.
Claims use since January, 1893.

Ser. No. 131,189. (CLASS 43. THREAD AND YARN.) A. H. RICE COMPANY, Pittsfield, Mass. Filed Apr. 15, 1920.

ARCo

Particular description of goods.—Silk Thread and Yarn.
Claims use since Mar. 11, 1919.

Ser. No. 131,257. (CLASS 37. PAPER AND STATIONERY.) THE CHATFIELD & WOODS CO., Pittsburgh, Pa. Filed Apr. 17, 1920.

STEELCRAFT

Particular description of goods.—Bond-Paper for Writing and Printing Purposes and Wrapping-Paper.
Claims use since Mar. 3, 1920.

Ser. No. 131,531. (CLASS 12. CONSTRUCTION MATERIALS.) MINNESOTA ROOFING & CORNICE WORKS, St. Paul, Minn. Filed Apr. 23, 1920.

VULCAN

Particular description of goods.—Fire-Doors.
Claims use since Feb. 15, 1920.

TRADE-MARK REGISTRATIONS GRANTED

JUNE 1, 1920.

131,930. COTTON WEBBING. AMERICAN TEXTILE BANDING COMPANY, Philadelphia, Pa.
Filed November 26, 1919. Serial No. 125,315. PUBLISHED MARCH 16, 1920.

131,931. POLISH FOR LEATHER GOODS, SUCH AS SHOES, SUITCASES. BARTON BELT COMPANY, Waco, Tex., assignor to Barton Manufacturing Co., Waco, Tex., a Firm composed of Warren D. Barton, Eugene O. Barton, and Rufus K. Barton.
Filed May 28, 1919. Serial No. 118,989. PUBLISHED MARCH 30, 1920.

131,932. WHEAT-FLOUR AND STOCK FEED. THE CANTON FEED & MILLING COMPANY, Canton, Ohio.
Filed October 2, 1919. Serial No. 123,340. PUBLISHED MARCH 16, 1920.

131,933. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed December 2, 1919. Serial No. 125,494. PUBLISHED MARCH 16, 1920.

131,934. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed December 2, 1919. Serial No. 125,495. PUBLISHED MARCH 16, 1920.

131,935. BAKERY PRODUCTS—NAMELY, CRACKERS AND CAKES. H. W. CLARK BISCUIT COMPANY, North Adams, Mass.
Filed December 15, 1919. Serial No. 126,004. PUBLISHED MARCH 16, 1920.

131,936. CANDY. DAISY PRODUCTS COMPANY, Harrisburg, Pa.
Filed November 21, 1919. Serial No. 125,151. PUBLISHED MARCH 16, 1920.

131,937. POULTRY FEED. C. O. DICKELMAN CO., Milwaukee, Wis.
Filed December 16, 1919. Serial No. 126,112. PUBLISHED MARCH 16, 1920.

131,938. CHOCOLATE CANDY. JOHN O. GILBERT, Jackson, Mich.
Filed October 31, 1919. Serial No. 124,399. PUBLISHED MARCH 16, 1920.

131,939. MERCERIZED COTTON PIECE GOODS. EDWIN P. GLEASON'S SON, INC., New York, N. Y.
Filed October 8, 1919. Serial No. 123,541. PUBLISHED MARCH 16, 1920.

131,940. KNITTED AND WOVEN AUTOMOBILE-ROBES, BLANKETS, AND CLOTH OR FABRIC IN THE PIECE. HOME WOOLEN MILLS, Eaton Rapids, Mich.
Filed November 13, 1919. Serial No. 124,860. PUBLISHED MARCH 16, 1920.

131,941. CAKES OR BISCUITS CALLED MATZOHS. HOROWITZ BROS. & MARGARETEN, INC., New York, N. Y.
Filed December 11, 1919. Serial No. 125,847. PUBLISHED MARCH 16, 1920.

131,942. TEXTILE FABRICS—NAMELY, LINEN, COTTON, WOOLEN, AND SILK PIECE GOODS. KOPS BROS., New York, N. Y.
Filed November 1, 1919. Serial No. 124,443. PUBLISHED MARCH 16, 1920.

131,943. ELASTIC VEIL. FRED'K LUDEWIG & CO., New York, N. Y.
Filed October 29, 1919. Serial No. 124,308. PUBLISHED MARCH 16, 1920.

131,944. SILK CRAPE PIECE GOODS. SALEMBIER & CLAY, INC., New York, N. Y.
Filed November 3, 1919. Serial No. 124,497. PUBLISHED MARCH 16, 1920.

131,945. SILK PIECE GOODS. SUNSET SILK MILLS, New York, N. Y.
Filed September 23, 1919. Serial No. 123,045. PUBLISHED MARCH 16, 1920.

131,946. FRESH APPLES. WEISER AIR STORAGE CO., Weiser, Idaho.
Filed December 15, 1919. Serial No. 126,081. PUBLISHED MARCH 16, 1920.

131,947. REFRIGERATING SYSTEMS AND PARTS THEREOF AND ICE-MAKING SYSTEMS AND PARTS THEREOF. YORK MANUFACTURING COMPANY, York, Pa.
Filed January 24, 1920. Serial No. 127,566. PUBLISHED MARCH 16, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE BARBER.

Decided November 29, 1918.

PATENTS—INVENTION—ALLEGED NEW RELATION OF PRINTING-PRESS AND PAPER-WEB.

No invention is involved in leading the web through a printing press in a specified way where no change in the construction is necessary to accomplish it.

[Note: This application has resulted in Patent No. 1,312,151, dated August 5, 1919.]

APPEAL from Examiners-in-Chief.

PRINTING-PRESS.

Messrs. Brown & Seward for the applicant.

WHITEHEAD, *First Assistant Commissioner:*

Appeal is taken from the decision of the Examiners-in-Chief affirming the decision of the Primary Examiner finally rejecting claims 1 to 8, inclusive, of which claims 1 and 5 are illustrative:

1. A printing press comprising two multicolor printing mechanisms operable to print a plurality of colors on each side of one web or one color on each side of two separate webs without the use of turners.

5. A printing press comprising two multicolor printing mechanisms operable to print a plurality of colors on each side of one web or a plurality of colors upon one side and one color on the other side of one web, or one color on each side of two separate webs without the use of turners.

The reference cited is Spalckhaver, No. 742,248, Oct. 27, 1903.

The invention is directed to a multicolor rotary web-printing press in which either a single product or two separate products may be obtained. As shown, the press includes two printing mechanisms, each mechanism consisting of two printing-couples. By appropriate adjustments, the webs may be printed as stated in the appealed claims.

The rejection is based on the ground that similar printing can be done on the press of the patent to Spalckhaver. In his brief, applicant says that in order to anticipate the appealed claims, leads must be provided for the web disclosed in the Spalckhaver patent which that patent neither shows nor describes, and that—

this is an instance therefore where a prior art patent, namely, the Spalckhaver patent, is reconstructed by the primary examiner and also by the Board of examiners-in-chief in the light of Appellant's disclosure, in the attempt to anticipate Appellant's claims.

It is perfectly obvious that the webs can be led through the Spalckhaver press so as to print them in the manner set out in the appealed claims, as fully pointed out both by the Primary Examiner and the Examiners-in-Chief. No reconstruction whatever of the press is necessary. The Spalckhaver patent points out certain ways in which the web can be led through the press, but it is not seen how it can be argued that it would require invention to lead them through in another manner. The case is analogous to a case where process claims are rejected on an apparatus which is clearly capable of carrying out that process. It is well settled that such a rejection is proper where either the process is described in the apparatus patent or where it is obvious to any one skilled in the art that the process can be carried out by the mechanism of that patent.

While the appealed claims were properly rejected on the Spalckhaver patent, applicant has disclosed a simpler mechanism than that of Spalckhaver in that he accomplishes the desired result by the use of only two printing mechanisms, each of which consists of only two printing-couples, and it is thought that applicant is entitled to claims on such a mechanism. If within forty days from the date hereof claims are presented limited to a press consisting of only two multicolor-printing mechanisms, each of which consists of only two printing-couples, the Examiner is authorized to enter the amendment and allow claims in the absence of better references.

The decision of the Examiners-in-Chief on the appealed claims is affirmed.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Third Circuit.

ROHM *et al. v.* MARTIN DENNIS CO.

Decided January 12, 1920.

263 Fed. Rep., 388.

1. PATENTS—FOR HIDE PREPARATION INVALID FOR FAILURE TO DISCLOSE INVENTION.

Rohm patent, No. 886,411, for a process for bating hides, *Held* invalid, because of the application's failure to fully and clearly disclose the invention, as required by Revised Statutes, section 4888. (Comp. St. sec. 9432.)

2. SAME—NECESSITY OF CLEARLY DISCLOSING INVENTION.

Revised Statutes, section 4888 (Comp. St. sec. 9432) and the purpose of the patent laws require a full disclosure of the invention before the patent is granted, in order that the public may, at the expiration of the patent, have full use of the invention.

APPEAL from the District Court of the United States for the District of New Jersey: J. Warren Davis, judge.

Patent infringement suit by Otto Rohm and the Rohm & Haas Company against the Martin Dennis Company. From a decree dismissing the bill (263 Fed. 106), plaintiffs appeal. Affirmed.

Mr. Charles Neave and *Mr. Merrell E. Clark* for the appellants.

Messrs. McCarter & English and *Mr. Arthur L. Fullman* (*Mr. Park Benjamin* of counsel) for the appellee.

Before BUFFINGTON and WOOLLEY, Circuit Judges, and MORRIS, District Judge.

BUFFINGTON, *Cir. J.:*

The bill filed in the court below by Otto Rohm and others, owners of Patent No. 886,411, issued to him May 5, 1908, for a preparation of hides for the manufacture of leather, charged the Martin Dennis Company with infringement of said patent. On final hearing, that court entered a decree dismissing the bill. Thereupon Rohm and his associates took this appeal.

1. After full argument before this court and due consideration, we are of opinion the court below committed no error in dismissing the bill, and we rest our conclusion on the ground that the patent is invalid by reason of the fact that the patentee did not, in his application, give the public that full and clear disclosure of his invention Revised Statutes, section 4888 (Comp. St. sec. 9432) requires.

The patent covers a process for bating hides which is so fully described in the opinion below that we save needless restatement by referring to the report thereof at 263 Fed., 106. Briefly stated, the alleged invention of Rohm was the substitution by him of the pancreas of animals for the dog-manure used in the well-known process of bating hides. The old process and Rohm's improvement by substituting animal pancreas for dog-manure are thus stated in his specification:

> For bating hides, that is to say, for removing the lime and fatty matter from the hides after the liming process, dog manure has been used for a long time.
>
> The present invention has for its object to provide a simpler and more reliable method of removing the lime, together with the fatty matter and the remnant of the hairs. For this purpose I treat the hides with an aqueous extract from the pancreas of animals. The principal constituent of the said pancreatic extract is trypsin, the effect of which is materially assisted by the other enzym of the pancreas, viz. steapsin, which has the property of splitting up fat and completing the saponification of the fat contained in the hides.

Rohm's disclosure as to use of his process is as follows:

> The details of procedure will appear from the following example: A pancreas weighing about 250 grams is extracted with 1 liter of water, and 10 cubic centimeters of this extract are added to 990 cubic centimeters of a 0.1 per cent. aqueous solution of ammonium chlorid. The solution thus obtained is an excellent bate.

Is this, in connection with the other parts of the specification, a compliance with Revised Statutes, section 4888, which required that—

> Before any inventor or discoverer shall receive a patent for his invention or discovery, he shall * * * file in the Patent Office a written description * * * of the manner and process of making * * * and using it, in such full, clear, * * * and exact terms as to enable any person skilled in the art * * * * to which it appertains, * * * to make * * * * and use the same.

Has this basic statutory condition precedent to the grant of a patent been complied with by the present applicant? The evidence satisfies us it has not. On that point we refer to the testimony of Otto Haas, one of the plaintiffs, and who has overseen the manufacture and sale, under the patent, of the extract of pancreas disclosed by the patent, which was commercially styled "Oropon." It was sold to some one hundred and thirty customers, among whom was the witness Beadenkopf, in connection with whose use of "Oropon" experiments by Haas and him were carried on,

> to find out with what quantities of "Oropon," in lime, and at what temperatures, we could obtain the best possible results.

It further appeared that it was the plaintiffs' custom to send their chemist to all of their customers so desiring, in order to give them like instructions. When the witness was asked whether the instructions so given involved any departure from those of the paragraph of the patent above specified, which stated, "The solution thus obtained is an excellent bate," he refused to answer. He was then asked whether the "Oropon" they sold was prepared by that formula; but this he refused to say, as also whether it contained any different ingredients from those disclosed in the patent.

2. Manifestly there was no reason, if the patent disclosed the entire invention and full workable directions for using it, why these questions should not have been answered; but if the specification did not sufficiently disclose the invention, and full and clear instructions for its use, it was clearly of interest to the plaintiffs to withhold such information. For if this withholding of information could be thus successfully carried out for the next six years, as it has been during the eleven years since the patent issued, the patentee would then for seventeen years have had a monopoly of his undisclosed invention, and at the end of the seventeen years he and his customers would have a like monopoly of the undisclosed invention for all time, unless they then chose to take the public into their confidence. But such is not the spirit of the patent law. Its purpose is that such full disclosure shall be made before the patent is granted that the public may, at the expiration of the patent, have a full and workable use of the invention. Indeed, this initial "full, clear, concise, and exact" disclosure is the real consideration moving from the patentee for the grant of patent monopoly by Government; and so necessary is a disclosure of this kind that the authorities have gone to the extent of holding (see opinion of Chief Justice Taney in *Wood* v. *Underhill*, 5 How., 1; 12 L. Ed., 23, cited by the Supreme Court in *The Incandescent Lamp Patent*, 159 U. S., 474; 16 Sup. Ct., 75; 40 L. Ed., 221) that—

> If, from the nature and character of the ingredients to be used, they are not susceptible of such exact description, the inventor is not entitled to a patent.

Satisfied, as we are, that the specification did not make the required statutory disclosure, we hold the patent invalid.

The decree below is therefore affirmed.

Supreme Court of the United States.

MECCANO LIMITED *v.* JOHN WANAMAKER, NEW YORK.

Decided May 17, 1920.

1. APPEAL AND ERROR—POWER OF SUPREME COURT TO REVIEW DECREES MADE FINAL IN CIRCUIT COURTS OF APPEALS.

   Decrees which are declared final under section 128 of the Judicial Code may be taken up on certiorari by the Supreme Court and treated as if on appeal. (Sec. 240, Judicial Code.)

2. SAME—APPEAL TO CIRCUIT COURTS OF APPEALS FROM PRELIMINARY ORDER—POWER TO TERMINATE LITIGATION.

   "The power of circuit courts of appeals to review preliminary orders granting injunctions arises from section 129, Judicial Code. * * * This power is not limited to mere consideration of, and action upon, the order appealed from; but, if insuperable objection to maintaining the bill clearly appears, it may be dismissed and the litigation terminated."

3. SAME—APPEAL FROM ORDER GRANTING OR REFUSING INJUNCTION—SCOPE OF REVIEW.

   Whether a preliminary injunction shall be awarded rests in the sound discretion of the trial court. Upon appeal an order granting or denying such an injunction will not be disturbed unless contrary to some rule of equity, or the result of improvident exercise of judicial discretion.

4. SAME—REVIEW ON CERTIORARI BY SUPREME COURT OF INTERLOCUTORY DECREE.

   Upon certiorari by the Supreme Court to a circuit court of appeals bringing up for consideration a decree upon an appeal from an interlocutory order the judgment of the appellate court, exercised upon a view of all relevant circumstances, is entitled to great weight and, except for strong reasons, will not be interfered with.

5. SAME—APPEAL FROM INTERLOCUTORY ORDER—MOTION FOR FINAL DECISION ON MERITS.

   Where plaintiff obtained a decree from a district court of Ohio affirming the validity and restraining infringement of its patent for mechanical toys, also restraining unfair competition in making and selling such toys, and infringement of copyright on its trade catalogue, and, pending appeal by defendant, brought suit against defendant's customer in New York for like infringement, wherein an interlocutory decree was given in plaintiff's favor based upon affidavits, from which defendant in that suit appealed to the Circuit Court of Appeals of the Second Circuit, pending which the Circuit Court of Appeals of the Sixth Circuit reversed the final decree as to infringement of the patent, but otherwise affirmed the decree, whereupon plaintiff withdrew the patent from the New York suit, upon denial of a motion brought after argument but before determination of the appeal from the preliminary order for final decision on the merits on the ground that the decree in the sixth circuit was final and conclusive *Held* that the denial of the motion was proper, as the defendant was entitled to his day in court with opportunity to set up and establish his defenses.

6. SAME—CONFLICT OF DECISIONS—CERTIORARI BRINGING UP PRELIMINARY ORDER FOR REVIEW—MERITS NOT CONSIDERED.

   Where the Circuit Court of Appeals of the Sixth Circuit held a patent for toys invalid, but granted an injunction against unfair competition in the sale of such toys and infringement of copyright on a trade catalogue, and the Circuit Court of Appeals of the Second Circuit, on appeal from an interlocutory order in another suit brought by the same plaintiff against a customer of defendant for like infringements, denied all relief and refused plaintiff's motion for a final decision on the merits, upon certiorari to the Supreme Court from the latter decision, *Held* that the Supreme Court would not declare which of the conflicting views of the two circuit courts of appeals was right or undertake to decide the several issues involved upon their merits, the matter for review being only the action of the courts below upon the preliminary order.

Mr. Reeve Lewis and *Mr. W. B. Kerkam* for the petitioner.

Messrs. Toulmin & Toumlin for the respondent.

Mr. Justice MCREYNOLDS delivered the opinion of the Court.

Proceeding against Wagner and others in the United States District Court, Southern District of Ohio, Meccano, Limited, obtained a decree (July 8, 1916) affirming the validity, and restraining infringement, of its patent for mechanical toys, also restraining unfair competition in making and selling such toys and the further infringement of its copyright upon trade catalogue and illustrated manual relating thereto. (234 Fed. 912.) An appeal was taken to the Circuit Court of Appeals, Sixth Circuit. The same corporation instituted the present suit in the United States District Court, Southern District of New York (December 9, 1916) seeking like relief against John Wanamaker, a customer of Wagner.

The trial court granted a preliminary injunction, asked upon the bill, supporting affidavits and exhibits—January 12, 1917. It expressed general agreement with the conclusions announced in the Ohio cause and said:

> It seems quite apparent that the patent is infringed and that diagrams and directions as to construction have been borrowed by defendant from complainant's copyrighted catalogues, and that the system of construction adopted by the defendant is a direct imitation of complainant's system.

An appeal followed; pending which the Circuit Court of Appeals, Sixth Circuit (November, 1917) reversed the Ohio district court's decree so far as it sustained the patent, approved it otherwise, and remanded the cause for further proceedings. (246 Fed. 603.)

January 25, 1918, after argument but before determination of appeal from the preliminary order, petitioner moved for final decision on the merits, claiming that the decree of the Circuit Court of Appeals, Sixth Circuit—

> is final and conclusive as to the case at bar, under principles enunciated by the Supreme Court.

Being opposed, the motion was denied—March 24, 1918. The court said of it:

> This was a motion for a decision on the merits of this cause by this court under the following circumstances. A suit was brought in the District Court for the Southern District of New York for an injunction for infringement of a copyright, and of a patent, and for unfair competition in the manufacture of a mechanical toy in absolute imitation of the plaintiff's. The plaintiff applied for and got an injunction *pendente lite*, from which the defendant appealed. That appeal is still pending undetermined in this court. Meanwhile the plaintiff had in the district court required the defendant to answer certain interrogatories by which it appeared that the defendant procured from one Wagner, the toys which it sold in alleged unfair competition and in violation of the patent, and also the "manuals" which went with the toys and explained their uses, which are alleged to infringe the copyright. The interrogatories further showed that Wagner had agreed to hold the defendant harmless for any sales of the toys and manuals, and that in pursuance of that undertaking he had taken a share in the defense of this suit. While it did not appear exactly what that share was, it may be assumed for the purposes of the motion only, that Wagner has assumed the chief conduct of the case and that the defendant remains only formally represented.

The plaintiff sued Wagner in Ohio upon the three same causes of equity and obtained a decree upon all. Later an appeal was taken to the Circuit Court of Appeals for the Sixth Circuit and the decree was affirmed except as to the patent, which was declared invalid and which the plaintiff has now withdrawn from this suit. No final decree has been entered and the Ohio cause now stands for an accounting in the district court. This motion is upon the record in the Ohio suit which is made a part of the moving papers and it presupposes that this court may pass a final decree for the plaintiff upon the appeal from the injunction *pendente lite* upon the assumption that that record is a complete estoppel against the defendant here and leaves open no issues for determination between the parties.

We pass the question of practice whether this court under the doctrine of *Mast, Foos & Co.* v. *Stover* (177 U. S. 488,) may enter a decree for the plaintiff upon such an appeal as that now pending. *Mast, Foos & Co.* v. *Stover, supra,* was a case where the bill was dismissed and no case has so far held that the plaintiff could obtain an affirmative decree. As we think the motion must be denied upon the merits, we leave open the question whether the plaintiff may in any event so terminate the litigation. * * * It is apparent that some of the issues are different from those litigated in Ohio; they involve not only the defendant's rights to sell Wagner's toys and manuals, but any others which it may procure elsewhere. * * * At best the rule in *Mast, Foos & Co.* v. *Stover, supra,* is limited to those cases in which the court can see that the whole issues can be disposed of at once without injustice to the parties. Whatever may be the result here, it is apparent that the case involves more than can be so decided.

April 15, 1918, the court below reversed the challenged preliminary order. After stating that the trial court very naturally followed the Ohio district court, it referred to the partial reversal of the decree there announced and expressed entire agreement with the Circuit Court of Appeals, Sixth Circuit, in holding the patent invalid. And, having considered the evidence relating to copyright and unfair competition, it found no adequate ground for an injunction. (250 Fed. 450.) The cause comes here by certiorari. (See *ex parte Wagner*, 249 U. S. 465.)

Decrees by circuit courts of appeals are declared final by section 128, Judicial Code, in cases like the present one. We, therefore, had authority to bring this cause up by certorari and may treat it as if here on appeal. (Sec. 240, Judicial Code; *Harriman* v. *Northern Securities Co.*, 197 U. S., 244, 287; *Denver* v. *New York Trust Company*, 229 U. S., 123, 136.) The power of circuit courts of appeals to review preliminary orders granting injunctions arises from section 129, Judicial Code, which has been often considered. (*Smith* v. *Vulcan Iron Works*, 165 U. S., 518; *Mast, Foos & Co.* v. *Stover Manufacturing Co.*, 177 U. S., 485, 494; *Harriman* v. *Northern Securities Co., supra; United States Fidelity & Guaranty Co.* v. *Bray*, 225 U. S., 205, 214; *Denver* v. *New York Trust Company, supra.*) This power is not limited to mere consideration of, and action upon, the order appealed from; but, if insuperable objection to maintaining the bill clearly appears, it may be dismissed and the litigation terminated.

The correct general doctrine is that whether a preliminary injunction shall be awarded rests in sound discretion of the trial court. Upon appeal, an order granting or denying such an injunction will not be disturbed unless contrary to some rule of equity, or the result of improvident exercise of judicial discretion. (*Rahley* v. *Columbia Phonograph Company*, 122 Fed. 623; *Texas Traction Company* v. *Barron G. Collier, Inc.*, 195 Fed., 65, 66; *Southern Express Company* v. *Long et al.*, 202 Fed., 462; *City of Amarillo et al.* v. *Southwestern Telegraph & Telephone Co.*, 253 Fed., 638.) The informed judgment of the circuit court of appeals exercised upon a view of all relevant circumstances is entitled to great weight. And, except for strong reasons, this Court will not interfere with its action. No such reasons are presented by the present record.

Pending the New York appeal the situation underwent a radical change—the Circuit Court of Appeals, Sixth Circuit, reversed the decree upholding petitioner's patent. Evidently the trial court had granted the preliminary injunction in entire reliance upon that decree and after its reversal the court below properly took notice of and considered the changed circumstances. (*Gulf, Colorado & Santa Fe Ry.* v. *Dennis*, 224 U. S., 503, 505, 506.)

Petitioner maintains that its motion for final decree upon the merits should have been sustained. But the appeal was from an interlocutory order and the court could only exercise powers given by statute. On such an appeal a cause may be dismissed if it clearly appears that no ground exists for equitable relief; but finally to decide a defendant's rights upon the mere statement of his adversary, although apparently supported by *ex parte* affidavits and decrees of other courts, is not within the purview of the act. He is entitled to a day in court with opportunity to set up and establish his defenses. The motion for final judgment was properly overruled. (*Eagle Glass & Manufacturing Co.* v. *Rowe et al.*, 245 U. S., 275, 281.)

Petitioner's motion to enter a disclaimer must be denied.

If the two circuit courts of appeals have expressed conflicting views we cannot now declare which is right or undertake finally to decide the several issues involved upon their merits. The matter for review here is the action of the courts below upon the preliminary order for injunction and we may go no further. (*Leeds and Catlin Co.* v. *Victor Talking Machine Co.*, 213 U. S., 301, 311; *Lutcher & Moore Lumber Co.* v. *Knight*, 217 U. S., 257, 267.)

The judgment of the circuit court of appeals is affirmed. The cause will be remanded to the district court for further proceedings in conformity with this opinion.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 11, 1920.

Robert W. Willits, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Northwestern Chemical Co., of State street, Marietta, Ohio, for registration of a trade-mark and trade-mark registered January 5, 1909, No. 72,210, to Robert W. Willits, of Alexis, Ill., and a notice of such declaration sent by registered mail to said Robert W. Willits at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Robert W. Willits, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 12, 1920.

H. A. Kespohl & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of William G. Dean and Son, of 203 Pearl street, New York, N. Y.; L. H. Kassel & Co., corner Main and Fourth streets, Fort Worth, Tex., and The International Company, corner of Exchange Place and Commerce street, Baltimore, Md., for registration of a trade-mark and trade-mark registered November 24, 1896, No. 29,200, to H. A. Kespohl & Co., of Quincy, Ill., and a notice of such declaration sent by registered mail to said H. A. Kespohl & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. A. Kespohl & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,049,057.

On April 9, 1920, a decision was rendered that James L. Dalton and John Magnus were not the first inventors of the subject-matter covered by claims 3 and 9 of their Patent No. 1,049,057, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,121,716.

On April 9, 1920, a decision was rendered that James L. Dalton was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,121,716, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,121,734.

On April 9, 1920, a decision was rendered that Harry Landsiedel was not the first inventor of the subject-matter covered by claims 4, 24, 37, and 38 of his Patent No. 1,121,734, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,131,734.

On April 9, 1920, a decision was rendered that Harry Landsiedel was not the first inventor of the subject-matter covered by claim 3 of his Patent No. 1,131,734, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,137,508.

On April 9, 1920, a decision was rendered that John Magnus was not the first inventor of the subject-matter covered by claim 22 of his Patent No. 1,137,508, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,238,305.

On April 14, 1920, a decision was rendered that Charles A. Lane, Charles D. Hendry, and James B. Kirkaldie were not the first inventors of the subject-matter covered by claims 1 and 2 of their Patent No. 1,238,305, subject, "Brake mechanism," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,281,620.

On April 23, 1920, a decision was rendered that William H. McLaughlin and Richard E. Babcock were not the first inventors of the subject-matter covered by claim 3 of their Patent No. 1,281,620, subject, "Chain connectors," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,320,504.

On April 23, 1920, a decision was rendered that Elijah F. Spaulding was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, and 14 of his Patent No. 1,320,504, subject, "Vending-machines," and no appeal having been taken within the time allowed such decision has become final.

CHANGES IN CLASSIFICATION.

(ORDER No. 2,572.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 10, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 21, Carriages and Wagons, (Division XLI,) abolish subclasses—

2. **Axle-boxes.**
4. **Axle-skeins.**
5. **Axles—**
188. Cushioned lateral thrust,
153. Rotary shaft or spindle,
187. Spring-mounted skein or spindle.
30. **Hub-attaching devices.**
89. **Hub-caps.**
31. **Hubs.**
40. **Sand-bands.**
69. **Wheels—**
165. Fellies—
178. Joints,
170. Metallic,
166. Split, adjustable—
167. Screw adjustment—
168. Right and left threaded bolt,
169. Wedge adjustment,
Wheels—
Fellies—
171. Spoke connections—
172. Adjustable spoke—
173. Screw adjustment,
177. Combined felly-joint,
174. Spoke-caps—
175. Combined felly-joint,
176. Side extensions,
155. Non-resilient tires—
162. Fastening devices—
163. Combined felly-joint,
164. Interposed clips or wedges,
160. Rail-climbing devices,
156. Split, adjustable—
157. Screw adjustment—
158. Right and left threaded bolt,
159. Wedge adjustment,
161. Supplemental tires,
Wheels—
179. Resilient-tire rims—
180. Metallic,
181. Spoke connections,
207. Traction—
217. Cylindrical rim, projecting spurs,
215. Detachable spurs,
214. Detachable traction-tire,
208. Movable spurs—
209. Adjustable—
210. Alternate projection and retraction,
211. Individually adjusted,
212. Spring-projected,
216. Parallel rims, connecting-spurs,
218. Recessed rim,
213. Supplemental rim or wheel.

The patents formerly contained in these subclasses have been placed for the most part in class 301, Land-Vehicles—Wheels and Axles, hereinafter established.

Establish, in Division XLI, class 301, Land-Vehicles—Wheels and Axles, with the following subclasses and definitions, the patents contained in this class having been taken for the most part from the subclasses hereinbefore abolished in class 21, Carriages and Wagons, and from class 152, Resilient Tires and Wheels, subclasses 7, Tires, Cushion, Fastening devices, Sectional channel, and 21, Tires, Pneumatic, Fastening devices, Sectional channel:

301.—LAND-VEHICLES—WHEELS AND AXLES.

1. **Combined wheel and axle modification—**
2. Cushion lateral thrust,
3. Bearings—
4. Wear compensating and repairing.
5. **Wheels—**
6. With drive or brake attachments.
7. Wheelbarrow type,
8. Auxiliary bracing.
9. Detachable wheel-section—
10. Demountable rims—
11. Securing means—
12. Spoke-attached,
13. Plural rims,
14. Rim-removing,
15. Contracting rim,
16. Expansible wheel,
17. Bayonet-joint,
18. Radially wedged—
19. Transversely-extending wedges—
20. Independently movable—
21. Radial bolts,
22. Ring,
23. Removable side ring,
24. Removable side lugs,
25. Latches—
26. Movable locking-ring—
27. Expansible ring,
28. Radially-extending bolts,
29. Pivoted,
30. Transversely divided—
31. Plural sections—
32. Hinged,
33. With end-manipulating structure—
34. Tool connections,
35. Circumferentially divided,
36. Dual.
37. Protectors,
38. Emergency—
39. Tires—
40. Detachable traction-increasing,
41. **Traction-increasing—**
42. Chains,
43. Projecting spurs or cleats—
44. Detachable,
45. Movable—
46. Adjustable—
47. Supplemental wheel attachments,

301.—LAND-VEHICLES—WHEELS AND AXLES—Continued.

Wheels—
Traction increasing—
Projecting spurs or cleats—
Movable—
Adjustable—
48. Alternately projecting and retracting—
49. Supplemental wheel attachments,
50. Individually,
51. Spring-projected,
52. Parallel rim, connecting-cleats,
53. Recessed rims,
54. Combined tension and compression,
55. Tension—
56. Tangentially-arranged spokes,
57. Hairpin type,
58. Felly and spoke connections,
59. Hub and spoke connections—
60. Simultaneous spoke-tensioning,
61. Separable spoke-sockets,
62. Compression—
63. Disk—
64. With spoke formation,
65. Cast metal,
66. Integrally-connected spokes,
67. Felly and spoke connections—
68. Adjustable—
69. Screw,
70. Separate spoke-socket—
71. Combined felly-joint,
72. Combined felly-joint,
73. Plural spoke series—
74. Hub and spoke connections—
75. Spoke-tighteners,
76. Driven spokes—
77. Reinforcing bands or casings,
78. Spoke-clamping hubs,
79. Single spoke series—
80. Hub and spoke connections—
81. Spoke-tighteners,
82. Driven spokes—
83. Reinforcing bands or casings,

301.—LAND-VEHICLES—WHEELS AND AXLES—Continued.

Wheels—
Compression—
Single spoke series—
Hub and spoke connections—
84. Spoke-clamping hubs—
85. Ring-forming spoke ends,
86. Non-resilient tires—
87. Fastening devices—
88. Combined felly-joint,
89. Interposed clips or wedges,
90. Rail-climbing devices,
91. Adjustable—
92. Screw—
93. Right and left threaded,
94. Wedge.
95. Fellies or rims—
96. Metallic—
97. Resilient tire,
98. Resilient tire.
99. Joints—
100. Adjustable—
101. Screw—
102. Right and left threaded,
Wedge,
103. Spokes,
104. Hubs—
105. Reinforcing bands and casings—
106. Point-bands.
107. Caps,
108. Axle-boxes—
109. Mounting,
110. Wheel-attaching devices—
111. Outer end stop—
112. Linchpin,
113. Screw-attached—
114. Adjustable plural-part nut,
115. Hub-wrench,
116. Tap-bolts,
117. Bayonet-joint attached,
118. Pivoted detent,
119. Sliding detent,
120. Movable-latch detent,
121. Stop-engaging collars or sleeves,
122. **Sand-bands.**
123. **Axles—**
124. With combined vehicle structure,
125. Rotary shaft or spindle,
126. Cranked or bowed,
127. Varying-length adjustment,
128. Trussed,
129. Emergency-repairing,
130. Spindles—
131. Mounting—
132. Spring,
133. Skein—
134. Mounting—
135. Spring.
136.

J. T. NEWTON, *Commissioner.*

Patents Nos. 1,342,411 to 1,343,188.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 275—No. 2. TUESDAY, JUNE 8, 1920. Price—$5 per year.

[PUBLISHED JUNE 9, 1920.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JUNE 8, 1920	207
NOTICE—APPLICATION EXECUTED BY AGENT OF INVENTOR	207
ADVERSE DECISIONS IN INTERFERENCE	207
INTERFERENCE NOTICES	207
CORRECTION OF DRAWINGS	207
APPLICATION UNDER EXAMINATION	208
PATENTS GRANTED	209
REISSUES	362
DESIGNS	364
TRADE-MARKS—REGISTRATION APPLIED FOR	373
TRADE-MARK REGISTRATIONS GRANTED	413
LABELS	418
COMMISSIONER'S DECISIONS—	
Ex parte Schneider	419
DECISIONS OF THE U. S. COURTS—	
Cox v. Headley and Thompson	419
Hartsough v. Gile	421
G. Reis & Bro., Inc., v. Reform Initial Company, Inc., and Gottschalk and Brasch	422
Vandenburgh v. Electric Welding Co.	423

Issue of June 8, 1920.

Patents	778	No. 1,342,411 to No.	1,343,188,	inclusive.
Designs	43	No. 55,404 to No.	55,446,	inclusive
Trade-Marks	128	No. 131,948 to No.	132,075,	inclusive.
Labels	1	No. 21,873.		
Reissues	7	No. 14,875 to No.	14,881,	inclusive.
Total	957			

NOTICE.

Application Executed by Agent of Inventor.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 13, 1920.

As appears from the report of the Commissioner of Patents for the year 1914, (223 O. G., 923–1007,) there was inaugurated on September 15, 1914, on account of the conditions in Europe arising out of the war, the practice of accepting applications executed by an agent of the inventor as a compliance with the provisions of section 4887, Revised Statutes, papers executed by the inventor being required as a prerequisite to the issuance of the patent.

Notice is hereby given that after June 15, 1920, this practice will be discontinued. Thereafter no application will be accepted as complete and forwarded for examination unless executed by the inventor or his legal representative, as defined in section 4896, Revised Statutes.

J. T. NEWTON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,271,337.

On May 1, 1920, a decision was rendered that Alben E. Lundell was not the first inventor of the subject-matter covered by claims 6 and 17 of his Patent No. 1,271,337, subject, "Telephone system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,307,444.

On April 30, 1920, a decision was rendered that Otto Jaeger was not the first inventor of the subject-matter covered by claim 6 of his Patent No. 1,307,444, subject, "Dispensing apparatus," and no appeal having been taken within the time allowed such decision has become final.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 29, 1920.

Consolidated Rubber Works, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Quick Tire Service, Inc., of 1790 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered December 28, 1897, No. 31,065, to Consolidated Rubber Works, of 116 Bedford street, Boston, Mass., and a notice of such declaration sent by registered mail to said Consolidated Rubber Works at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Consolidated Rubber Works, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 29, 1920.

George Bedford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Louis A. Freedman, of 340 West Eighty-sixth street, New York, N. Y., for patent and patent granted December 12, 1916, No. 1,208,455, to George Bedford, of 2723 Church avenue, Brooklyn, N. Y., and a notice of such declaration sent by registered mail to said George Bedford at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said George Bedford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

Correction of Drawings.

RULE 72. • • • • •

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Substitute drawings will not be admitted in any case unless required by the Office.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business May 29, 1920.

Room No.	Divisions and subjects of invention	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 16	Feb. 26	384
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Oct. 4	Jan. 1	921
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	557
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 21	Apr. 8	1,202
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 12	Jan. 31	334
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 4	Apr. 7	465
312	7. Games and Toys; Optics; Photography; Velocipedes	Feb. 2	Mar. 26	810
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 24	May 3	352
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 12	Jan. 5	481
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Dec. 26	Mar. 23	957
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Feb. 6	Feb. 16	695
222	12. Machine Elements	Oct. 13	Mar. 29	1,134
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Jan. 13	Apr. 8	1,130
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 20	Feb. 9	593
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 6	Mar. 26	1,045
111	16. Radiant Energy; Telegraphy; Telephony	Oct. 18	Nov. 20	872
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 13	Mar. 16	235
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 6	Dec. 2	926
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 5	Dec. 12	572
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 19	Feb. 16	693
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 4	Apr. 9	387
219	22. Aeronautics; Firearms; Ordnance	Mar. 16	Mar. 24	230
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 22	Mar. 6	599
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 20	Mar. 17	515
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 12	Mar. 18	210
105	26. Electricity, Generation: Motive Power; Prime Mover Dynamo Plants	Oct. 20	Oct. 15	718
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 19	Mar. 31	540
225	28. Internal-Combustion Engines	Jan. 12	Mar. 24	595
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Oct. 1	Apr. 15	642
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Dec. 17	Apr. 12	1,011
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 6	Dec. 29	981
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Oct. 1	Feb. 4	1,169
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 2	Mar. 12	486
301	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 8	May 5	140
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 20	May 7	452
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 24	Feb. 2	1,137
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 9	Jan. 10	1,252
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 31	Mar. 25	572
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 7	Nov. 8	1,032
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 26	Feb. 25	706
125	41. Resilient Tires and Wheels	Oct. 31	Feb. 28	762
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling	Nov. 20	Jan. 7	1,023
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 12	Feb. 14	833
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Jan. 19	Mar. 26	302
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Dec. 18	Feb. 2	746
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Oct. 24	Dec. 31	769

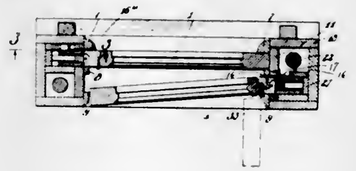
Oldest new case, Sept. 5. oldest amended, Nov. 8.
Total number of applications awaiting action 32,167

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Jan. 26	Feb. 1	2,563
	Designs	Nov. 22	Feb. 4	950
	Labels and Prints	Jan. 2	Feb. 2	1,028

PATENTS

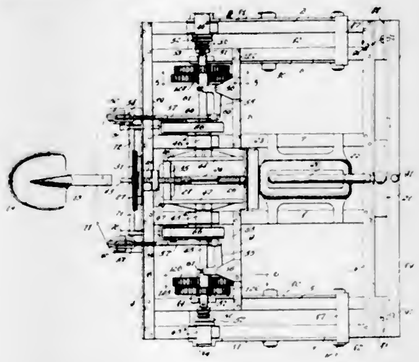
GRANTED JUNE 8, 1920.

1,342,411. WINDOW. CHARLES ALBONESI, Dumont, N. J. Filed Aug. 23, 1919. Serial No. 319,429. 6 Claims. (Cl. 20—50.)



1. In a window, the combination of a casing, upper and lower sashes each comprising a slidable member and a member hinged thereto, said casing having means for guiding said slidable members and the edges opposite thereto of said hinged members in their vertical sliding movements, a single sash cord and counterweight for each sash, secured to the said slidable member of each sash, means yieldable in the planes of the sashes, normally coacting with each said sash and casing, and operable to free said hinged members from their said edge guiding means when the same are to be swung inwardly about their hinges, and coacting bearing means carried by said slidable members and said casing, adapted to slidably engage when said hinged members are open comprising a vertical rail mounted within said casing, extending the height of the window opening, and vertical angular bearing members carried by said slidable members, and extending throughout a substantial part of the height of each.

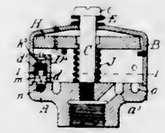
1,342,412. TRACTOR. GEORGE A. ARMINGTON, Wickliffe, Ohio. Filed Apr. 13, 1915. Serial No. 21,158. 8 Claims. (Cl. 180—9.2.)



1. In mechanism of the character set forth, the combination of a friction roller, a disk for coöperation with said roller, a longitudinally movable shaft to one end of which the disk is secured, means for moving the shaft in a direction to thrust the disk against the roller, and mechanism for moving the shaft in opposition to the aforesaid means and comprising a bell-crank that is pivoted to a stationary support and having one of its ends swiveled to the shaft, an L shaped lever that has one of its ends pivoted to a fixed support, and a member connecting the opposite end of the bell-crank to the angle of the L shaped lever, the angle of the lever being movable through a straight line defined by the pivot of the lever and the end of the bell-crank to which the lever is connected.

3. In a vehicle of the character set forth, the combination of a frame, a traction element on each side of the frame, a pair of shafts carried by the frame and rotatable independently of each other, driving connections between each shaft and one of the traction elements, a brake for controlling the operation of each shaft, a lever for actuating each brake, and a substantially rigid member having each of its ends pivotally connected to one of the levers whereby through the medium of said member each brake may be operated independently of the other or both may be operated simultaneously at the same or at relatively varying degrees of pressure.

1,342,413. TIME-FUSE FOR EXPLOSIVE SHELLS OR BOMBS. HERBERT AUSTIN, Bromsgrove, England. Filed June 26, 1917. Serial No. 176,985. 7 Claims. (Cl. 102—36.)



1. A time fuse for an explosive shell or bomb, having a groove, a tube containing time fuse material located within such groove, a detonator, a cutter which is exposed to the force of the detonation, a striker needle, and a hammer which, owing to its inertia, moves back in relation to the fuse, as the shell or bomb is shot forward, and thereby brings the striker needle and the detonator into contact with one another, causing detonation which drives the cutter into the tube, substantially as set forth.

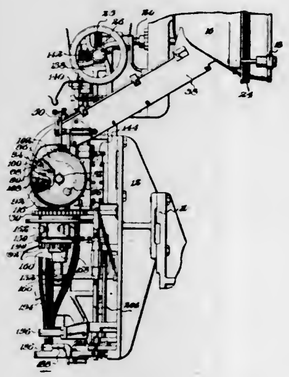
1,342,414. WELL-BUCKET. CHARLES D. BEHAN, Stigler, Okla. Filed Jan. 22, 1920. Serial No. 353,287. 7 Claims. (Cl. 294—69.)



1. A bucket of the character specified comprising a cylindrical body closed at its top and having an opening

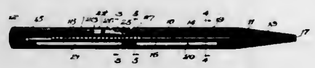
in its bottom, a water seal for closing the said opening to retain the water in the bucket by atmospheric pressure, means for admitting air to the bucket to discharge the water, said water seal comprising a cup supported in the body, said bucket having at the opening in its bottom a nipple depending into the cup, the means for admitting air comprising a siphon shaped pipe having one arm extending out at the top of the bucket and another arm opening into the bucket near its top, and a pipe extending through the first named arm into the other arm and having a bulb at its outer end.

1,342,415. NAIL-DISTRIBUTING MACHINE. JOHN M. BENJAMIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 11, 1918. Serial No. 244,399. 30 Claims. (Cl. 1—39.)



1. In a nail distributing machine, the combination of a raceway, a distributer cylinder, and means for receiving nails from the raceway, inverting them and delivering them to the distributer cylinder.

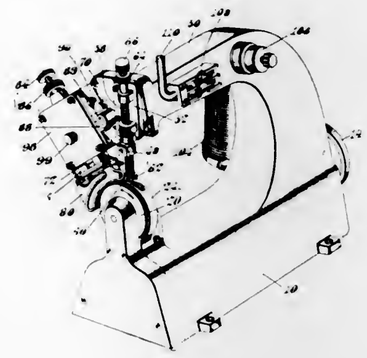
1,342,416. LEAD-PENCIL. MARTIN O. BORBECK, Sioux City, Iowa. Filed July 28, 1919. Serial No. 313,681. 6 Claims. (Cl. 120—17.)



6. A pencil of the character described including in combination, a barrel having a longitudinal passage open at one end adapted to hold a pencil lead, a plunger in said passage adapted at one end to bear against the lead, said plunger formed with serrations, an aperture through the wall of said barrel, a lever pivoted at one end of said aperture and normally closing said aperture, a pawl pivoted on said lever adapted to engage said serrations and advance the plunger when the lever is moved in one direction and to hold the plunger and lead against inward movement when the lever closes said aperture.

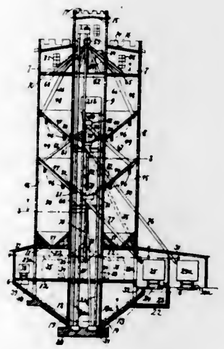
1,342,417. SEAM-IRONING MACHINE. GEORGE BOULTON and GEORGE J. GORSUCH, Rochester, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 21, 1918. Serial No. 263,588. 13 Claims. (Cl. 69—7.)

1. In a seam ironing machine, a seam opening device comprising a supporting saddle, a seam opening plow above said saddle provided with a sharp vertical edge merging into a flared out rear portion, and means for supporting and guiding the upstanding edges of the seam



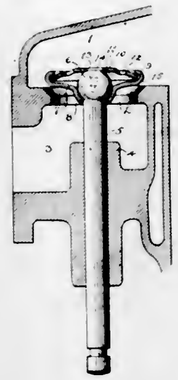
to the vertical edge of the seam opening plow comprising guide members disposed beside the vertical edge of the plow and extending forwardly and rearwardly therefrom.

1,342,418. GRAIN-ELEVATOR. JOHN H. A. BRAHTZ, St. Paul, Minn. Filed Aug. 22, 1918. Serial No. 250,912. 5 Claims. (Cl. 214—16.)



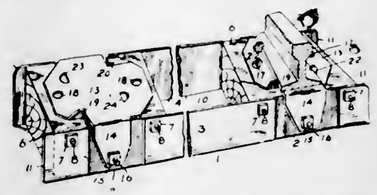
1. In a grain elevator, a funnel-shaped base terminating in a central pit, a hollow upright cylindrical body constituting an elevator shaft in said pit and having side inlets for grain into it near the bottom of the pit, and resting upon said base a larger hollow cylindrical body spaced concentrically about the elevator shaft, and a series of radial partition walls connecting the said two bodies, whereby a series of compartments are formed between the said bodies and walls, and floors dividing said compartments into several sets of upper and lower bins, and suitable roofing covering said bodies and the spaces within the same.

1,342,419. PUPPET-VALVE. LUPU WILLIAM BRENNER, Detroit, Mich. Filed Feb. 8, 1918. Serial No. 216,093. 19 Claims. (Cl. 251—160.)



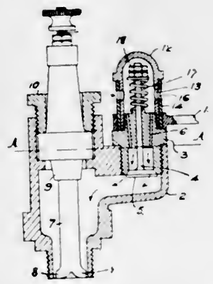
1. A puppet valve comprising two concave members peripherally interengaged one with the other to form a valve head and a valve stem having a head thereon clamped between said concave members.

1,342,420. RAILROAD-TIE. CHARLES BESS and IVAN C. W. BESS, Pittsburgh, Pa. Filed Mar. 9, 1920. Serial No. 364,557. 5 Claims. (Cl. 238—62.)



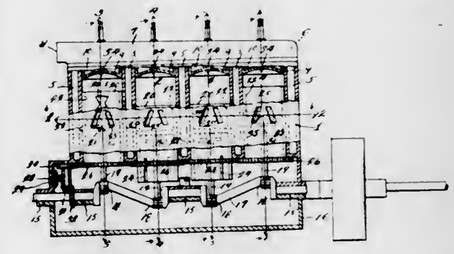
1. A rail tie comprising a metallic channel shaped member having each of its sides cut away in proximity to each end, a cushioning block arranged in said member at each end, a tie plate mounted on each block and having depending flanges positioned against the sides of said block at the cut-away portions of the sides of said member, and means for securing the blocks and tie plates to said member.

1,342,421. AIR-COOLED SPARKING PLUG. JAMES CHAPMAN, Rock Ferry, Birkenhead, England. Filed Feb. 3, 1919. Serial No. 274,641. 1 Claim. (Cl. 123—169.)



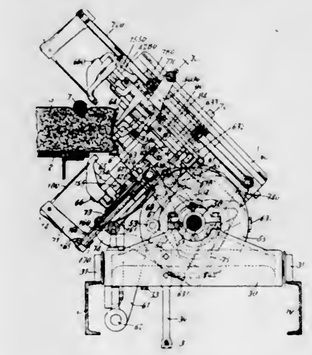
An air cooled sparking plug, comprising a plug body having a hollow extension laterally for the passage of air, a detachable valve seat in said extension, including a plug, having an opening therein, for receiving a valve stem and perforations for the admission of air, a valve stem slidable in the plug, a valve carried thereby adapted to coact with the valve seat, a hood threaded on the plug, said hood having apertures therein, an aperture sleeve rotatable on the hood, a spring encircling the valve stem and bearing against the plug, and an abutment at the outer end of the valve stem for the said spring.

1,342,422. INTERNAL-COMBUSTION ENGINE. RAY H. CHASE, Alexandria, S. D., assignor of one-third to Charles I. Chase, Alexandria, S. D. Filed May 19, 1919. Serial No. 298,212. 1 Claim. (Cl. 123—45.)



An internal combustion engine comprising a casing having a cylinder therein, a crank shaft rotatably mounted in the casing, said crank shaft being provided with a connecting rod, a piston universally connected to the upper end of the connecting rod and disposed in the cylinder, the upper end of the piston being provided with a chamber, a combined intake and exhaust port in the wall of the piston and in communication with same chamber, said combined intake and exhaust port being restricted centrally, elongated intake and exhaust ports in the wall of the cylinder, said intake and exhaust ports being angularly arranged and so positioned that as the piston rotates and simultaneously reciprocates the exhaust and intake ports will be maintained in registration with the combined intake and exhaust port for a maximum length of time during a reciprocating and simultaneous rotation of the piston.

1,342,423. MATTRESS-SIDE-STITCHING MACHINE. FREDERICK W. H. COLLETT, Cambridge, Mass., assignor to Rockwell & Company, Inc., a Corporation of Maine. Filed Apr. 14, 1919. Serial No. 290,005. 26 Claims. (Cl. 112—3.)



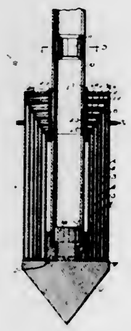
1. An organized machine for side-stitching mattresses comprising a supporting table for a mattress to be stitched, and a stitcher containing two sets of stitch forming instrumentalities each comprising a needle and

a knotter, one of said sets being adapted to operate at the corner where the side joins the top face of the mattress and the other at the corner where the side joins the bottom face of the mattress.

13. The combination of a needle and means for effecting two needle strokes and an intervening lateral or shogging movement of the needle at each cycle of operations, with a knotter comprising a gripper to seize the twine presented at the first needle stroke, and means for moving said gripper to form a loop from the bight of twine presented in the first needle stroke and means for passing the end part of the bight of twine presented at the first needle stroke through the bight presented at the second needle stroke substantially as described.

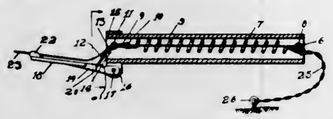
25. The combination of a work support and presser foot each having two needle guide passages, with a needle adapted to operate in said guide passages alternately, and a knotter coöperating with said needle, and cutters operating in guide passages in said work support and presser foot across one of the needle passages therein, substantially as and for the purpose described.

1,342,424. METHOD AND APPARATUS FOR CONSTRUCTING CONCRETE PILES. SHEPARD M. COTTEN, Phoenix, Ariz. Filed Sept. 6, 1918. Serial No. 252,947. 9 Claims. (Cl. 61—57.)



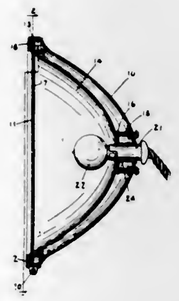
1. A device of the character specified, comprising a drive-shaft, a pointed shoe, a series of interlocking, telescopic, cylindrical casing sections of varying diameter, arranged one within the other around the drive-shaft and normally resting upon the base of the shoe, a series of collars of varying outside diameter passing over the drive-shaft and resting along their outer edges upon the tops of the respective sections, and a frangible connection between the drive-shaft and each of the collars.

1,342,425. TRAP. FELIX H. CRAGO, Hot Springs, Mont. Filed Nov. 5, 1919. Serial No. 335,839. 3 Claims. (Cl. 43—87.)



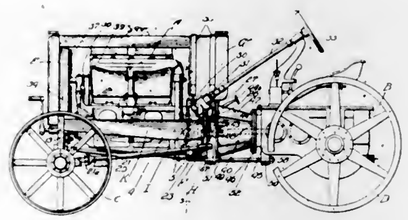
1. A trap including a tubular body portion, a coiled spring having one of its ends secured to the body portion adjacent one end thereof, a bar extending transversely across the tubular member adjacent the opposite end thereof, treadle pivotally connected to the body, a keeper carried by the coiled spring, and engaging over the transversely extending bar for engaging the treadle to hold the same in spaced relation with the ground surface, means having connection with one end of the coiled spring for relieving the coiled spring of strain, directed thereto after the trap is sprung, and a catching element operated by the coiled spring.

1,342,426. LAMP CONSTRUCTION. CHARLES L. DE MARTIN and HARRY C. FOSTER, Connersville, Ind., assignors to Indiana Lamp Company, Connersville, Ind., a Corporation. Filed Apr. 7, 1919. Serial No. 288,103. 6 Claims. (Cl. 240—41.)



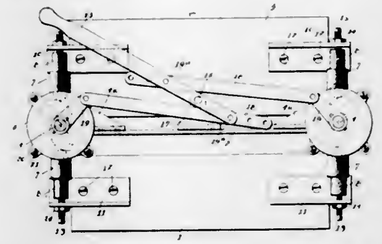
1. In a lamp construction having a parabolic lamp casing, a flange integral with and forming a part of said casing extending radially inwardly from the outer periphery thereof and having a semi-circular peripheral slot, a circular lens adapted to be inserted through said slot into said casing so as to lie adjacent said flange, a reflector mounted in said casing and abutting said lens for holding it in position against said flange, means for resiliently and adjustably securing said reflector in position for holding said lens, and a resilient rim adapted to be mounted over said flange and the periphery of said casing for inclosing and locking the lens therein.

1,342,427. TRACTOR. JOHN W. DIEDERICH, Cleveland, Ohio, assignor to The Craig Tractor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 19, 1918. Serial No. 250,457. 5 Claims. (Cl. 180—54.)



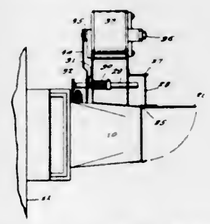
1. In a tractor a front and rear unit, the front unit comprising an engine and a pair of supporting wheels and a housing from which the engine is supported, the rear unit comprising a pair of wheels and a transmission mechanism having a casing, connections for driving the mechanism from the engine, a spacing member intermediate the housing and the transmission casing, and tension rods directly connecting the housing and transmission mechanism casing below the spacing member.

1,342,428. MOLDING-MACHINE. ADAM DIEHL, Springfield, Ohio. Filed Feb. 2, 1920. Serial No. 355,545. 4 Claims. (Cl. 22—92.)



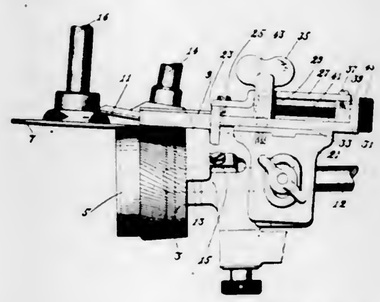
4. In molding machines, the combination with the flask, of means for simultaneously separating the cope and the match plate from the drag and from each other, said means being carried by the match plate.

1,342,429. SAFETY DEVICE FOR MOTION-PICTURE PROJECTORS. HERBERT D. DREYFUS, Terre Haute, Ind. Filed Aug. 9, 1919. Serial No. 316,304. 2 Claims. (Cl. 88—17.)



1. In a projector, the combination of film-driving mechanism, loop-supporting means associated therewith, a finger movably supported in said loop, a lever connected with and movable by said finger, a clutch forming part of the film-driving train, connections between said lever and clutch, a pair of coöperating electric terminals one of which is carried by said lever, an electromagnet in circuit with said terminals, a light-ray-producer, a light-ray-obstructor adapted to obstruct the passage of light to the film, and means controlled by the electromagnet for causing said light-ray-obstructor to move to obstruction position when the electromagnet is energized.

1,342,430. SKIVING-MACHINE. NEWELL V. DYER, Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 13, 1918. Serial No. 266,582. 9 Claims. (Cl. 69—16.)



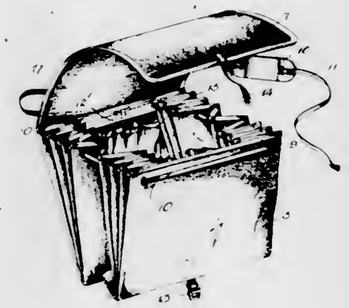
1. A machine for cutting on an angle a strip from a piece of flexible material, having in combination, a rotary feed roll for engaging the body of the material, a stationary member for supporting the portion which is to be cut off, said member having an operative face curved to correspond to the curvature of the feed roll, and a knife inclined to the axis of the roll.

1,342,431. TRIPLE-GAP SPARK-PLUG. JOHN D. EARNEY, Salt Lake City, Utah. Filed Nov. 3, 1919. Serial No. 335,544. 2 Claims. (Cl. 123—169.)



1. A spark plug for internal combustion engines comprising a casing to be screwed into the combustion chamber; an inhulating core carried therein and having a portion of one end extended to form a semi-cylindrical support for an electrode; a ground electrode screwed into said casing and bent to partially inclose the extension of said insulating core; a central electrode carried and secured in said insulating core and terminating near the diametrical face of said insulating core; and two spaced apart metal posts interposed between the end of said ground electrode and said central electrode to form three spark gaps within said combustion chamber.

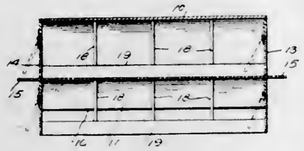
1,342,432. MEDICAL POUCH. WILLIAM EDWARD EATON, Washington, D. C., assignor to the Government of the United States. Filed Apr. 10, 1919. Serial No. 289,162. 2 Claims. (Cl. 150—42.)



1. A medical pouch formed from a single sheet of material of general rectangular shape and adapted to be folded to provide a plurality of accordion plaits along its sides, said plaits having eyelets, and a strap passing through said eyelets, one end of said strap being provided with a buckle, the free end of the strap passing through the eyelets and the buckle and constituting a carrying means, said pouch being provided with reinforcing members along the upper edges of its front and rear sides thereby to provide means for retaining the shape of said pouch.

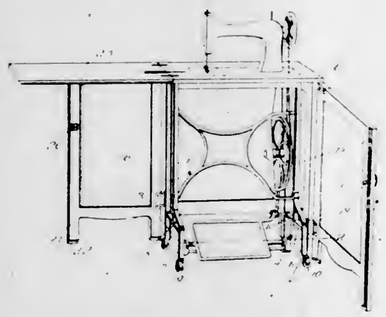
1,342,433. [WITHDRAWN.]

1,342,434. LAYING-CABINET. JOHN FRANKLIN ELLIS, Huntington, W. Va. Filed Aug. 15, 1919. Serial No. 317,735. 2 Claims. (Cl. 119—45.)



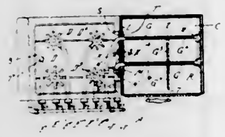
1. A device of the character described comprising a rectangular casing, a horizontally disposed partition arranged centrally of said casing and dividing the interior thereof into similar upper and lower compartments, each end of the casing being provided with doorways communicating with the respective compartments, inwardly opening trap doors closing the openings at one end of the casing, outwardly opening trap doors closing the openings at the other end of the casing, the sides of the casing being provided with openings communicating with the lower compartments, hinged doors normally closing said last named openings and permitting access of an operator to said lower compartment, a plurality of short partitions disposed within each compartment, bars extending longitudinally of the casing and connecting the upper portions of said short partitions and defining therewith a plurality of separate nests.

1,342,435. SEWING-MACHINE. WILLIAM C. FREE, Rockford, Ill. Filed Jan. 31, 1916. Serial No. 75,194. 3 Claims. (Cl. 45—27.)



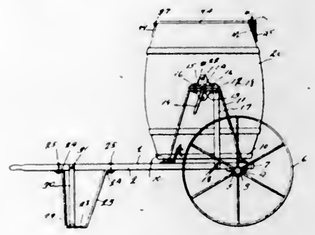
1. In a sewing machine, a rectangular head supporting frame having legs at its several corners, and a cabinet inclosing and sustained by said frame having a fixed rear wall and a fixed end wall, a front wall pivoted to the front edge of said fixed end wall and a swinging end wall pivoted to the edge of the rear wall.

1,342,436. GAS-BURNER. JOHN A. FRY, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed May 17, 1917. Serial No. 169,297. 4 Claims. (Cl. 158—99.)



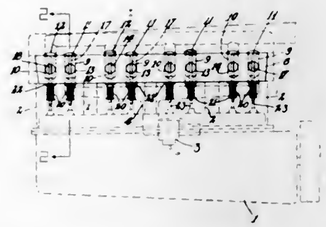
1. The combination with an open-top section and an oven section adjacent thereto, of a gas conduit extending along the front of said open-top, and a burner for said oven, comprising an integral construction having burner sections terminating in supply connections leading toward said gas conduit and extending through the wall of the oven into the plane of said open top section, and a mounting for said burner sections constructed to hold the same in ovens located at either side of the open-top section.

1,342,437. BARREL-CART. JAMES C. GORDON, Monmouth, Ill. Filed Oct. 4, 1918. Serial No. 256,888. 1 Claim. (Cl. 280—53.)



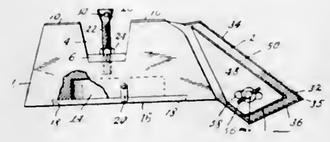
In a device as set forth, comprising a frame in a horizontal plane and formed from a pair of spaced bars, one end of said bars being connected to each other and held in spaced relation to each other by a transversely disposed bar having ears longitudinally disposed and engaging the inner faces of the ends of the bars, an axle extending transversely of the frame and rotatably mounted in bearings thereof, said axle being adjacent the connected ends of the bars of the frame, the other end of the frame being provided with downwardly extending legs for maintaining the frame in a horizontal position, upstanding U-shaped brackets carried by the side bars and provided with bearings in alinement with each other, said bearings being located a substantial distance from the vertical center of the axle and its wheels, and located between said wheels and the supporting legs at the other ends of the frame, a revoluble receptacle mounted in the upstanding bracket bearing, manually operated crank for revolving said receptacle, the lower end of said receptacle being disposed above the top surface of the frame, said positioning of the pivotal point of the receptacle at a distance from the axle center allowing the rotation of the receptacle without danger of tilting of the frame, and means carried by one of the bars of the frame for holding the receptacle against movement.

1,342,438. VALVE MECHANISM. FRED GRUBER, Newark, N. J. Filed Oct. 17, 1919. Serial No. 331,426. 4 Claims. (Cl. 123—59.)



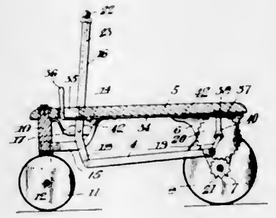
1. In an internal combustion engine, a series of intake and exhaust valves, an elongated block having tapering side and end walls and lateral apertures in which said valves are mounted, and means for detachably mounting said member on the engine.

1,342,439. TOOL FOR BRICKMASONS. DAVID E. HALE, Kansas City, Mo., and JOHN E. MCCORMICK, Kansas City, Kans. Filed Feb. 17, 1919. Serial No. 277,617. 3 Claims. (Cl. 72—138.)



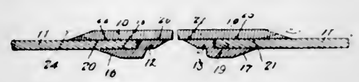
1. A tool of the character described consisting of a handle provided at one end with an angular extension, an element on said extension provided with long and short troweling surfaces meeting in an acute angle, and a gage secured to one side of the angular extension and provided with long and short surfaces paralleling the corresponding surfaces of said element.

1,342,440. SELF-PROPELLED VEHICLE. JOSEPH ODILON HAMEL, Smith's Falls, Ontario, Canada. Filed Oct. 15, 1918. Serial No. 258,244. 1 Claim. (Cl. 208—34.)



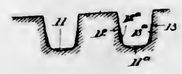
A device of the class described comprising a seat portion, a pair of tapered, downwardly extending brackets on the seat portion, an axle rotatably mounted on the brackets, and provided with ground wheels, a gear on the axle, a fork member pivotally mounted on the front end of the seat portion, a brace on the seat portion connected to the fork member, a ground wheel pivotally mounted on the fork member, a pair of laterally extending foot rests on the fork member, a pivotally mounted lever, a crank shaft, link means operatively connecting the lever and the crank shaft, a gear on the crank shaft meshing with the first said gear, clutch mechanism controlling the operation of the second gear, a steering rod passing through the pivotally mounted lever, and link means connecting the steering rod with the fork member, as and for the purpose specified.

1,342,441. METHOD OF SPLICING A TUBE AND THE PRODUCT THEREOF. CHARLES T. HAMPTON, Des Moines, Iowa. Filed Mar. 10, 1919. Serial No. 281,605. 8 Claims. (Cl. 154—8.)



1. A tube splice comprising an outer sleeve, an inner sleeve connected thereto, throughout a portion only of its length, said sleeves being arranged for the reception between portions thereof of the end of a tube, faces of said sleeves being gum treated.

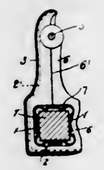
1,342,442. MULTIPLE-RECORD-REPEATING PHONOGRAPH. CHARLES M. HECK, Raleigh, N. C. Filed May 6, 1915. Serial No. 26,335. 49 Claims. (Cl. 274—10.)



1. The combination with a body provided with a groove in its surface, said groove having a sound record on a side wall thereof, of means for moving said body, a diaphragm provided with a stylus, and means for holding said stylus selectively in engagement with either side wall of said groove.

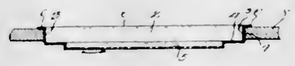
11. The combination with a record support, and a tone arm mounted in operative relation thereto, of means for reversing the rotation of said record support, setting mechanism for controlling said reversing means, and means attached to the tone arm for controlling the position of said setting mechanism.

1,342,443. CASKET-HANDLE. HAROLD W. HODGETTS, Springfield, Mass., assignor to Leon J. Harley, Jr., Springfield, Mass. Filed June 30, 1919. Serial No. 307,724. 3 Claims. (Cl. 16—103.)



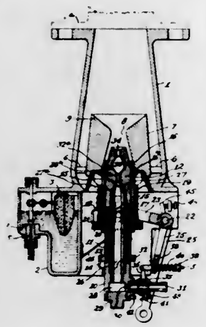
1. In a casket handle construction, the combination with the tubular bar thereof, of a hanger arm, a flat one-piece rib or plate having an opening therethrough and secured to the arm and having integral and bendable portions surrounding the opening through which the bar passes, said plate having one of its sides which surrounds the opening bent directly inward against the bar and with a permanent set, and transversely of the opening, whereby the bar is frictionally retained against movement in the arm and relative to the rib or plate.

1,342,444. GRIDDLE. EARL W. HOWE, Norfolk, Va. Filed Sept. 16, 1919. Serial No. 324,088. 1 Claim. (Cl. 53—7.)



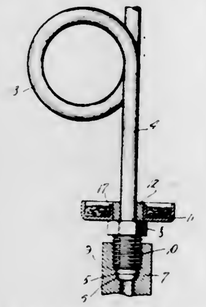
A griddle comprising a frying depression having upstanding vertical walls around its marginal edge, said upstanding walls having a substantially horizontal ledge on which cooked articles may be deposited for drainage, the outer edge of the ledge being provided with substantially vertical walls for preventing the splashing of grease as articles of food are deposited on the ledge and a flange carried by the last named vertical walls whereby the griddle as a whole may be supported in an opening over the fire.

1,342,445. CARBURETER. ROBERT E. L. JANNEY, Chicago, Ill. Filed Dec. 7, 1915. Serial No. 65,541. Renewed July 8, 1918. Serial No. 243,965. 25 Claims. (Cl. 261—43.)



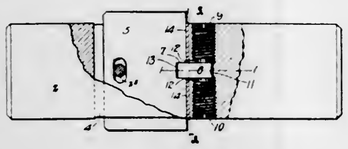
1. In a carbureter, a main air supply means, a fuel supply means of constant area, and a variable air jet for controlling said fuel supply in inverse ratio to said air jet.

1,342,446. VAPORIZER AND HOLDER. ADOLPH G. KAUFMAN, New York, N. Y. Filed July 15, 1919. Serial No. 310,930. 3 Claims. (Cl. 67—37.)



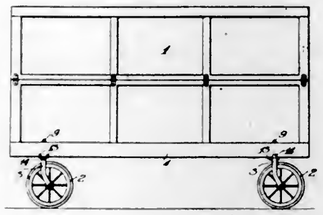
1. In a lamp, a vaporizing tube having a head with a beveled end, a nut adapted to force said head into a tight-connection with a seat whereby fluid may be fed to the vaporizer without leakage, and a preheating cup adapted to operate said nut, said vaporizer having a coil, or curl formed therein.

1,342,447. ADJUSTING MEANS FOR BORING-BAR CUTTERS. WILLIAM E. KELLY, Cleveland, Ohio. Filed Feb. 20, 1917. Serial No. 149,781. 6 Claims. (Cl. 77—56.)



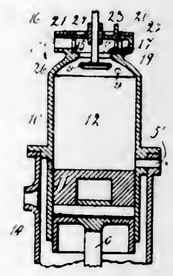
1. An apparatus of the character described comprising a body, an adjustable member mounted in said body, a locating member mounted in said body and adapted to engage said adjustable member, a screw acting against each side of said locating member to adjust and lock the same in desired position transversely of said body and adapted to hold the same in position longitudinally of said body.

1,342,448. CASTER. DEWEY M. KENNEDY, Rochester, N. Y., assignor of one-half to Benjamin H. Kennedy, Rochester, N. Y. Filed Aug. 11, 1919. Serial No. 316,611. 4 Claims. (Cl. 16—4.)



2. In a caster, the combination with a yoke, a shank secured thereto and a wheel within the yoke, of a detachable socket plate for the shank reversible thereon and having upper and lower sets of lugs respectively extending in opposite directions, either set being adapted to lock the socket to a support and only one set being adapted to lock the yoke against turning when disposed in proximity thereto.

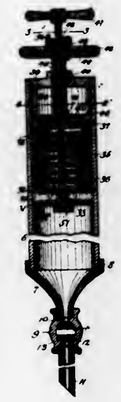
1,342,449. INTERNAL-COMBUSTION CHAMBER FOR ENGINES. JOHN KONAR, Chicago, Ill. Filed Aug. 14, 1916. Serial No. 114,865. 13 Claims. (Cl. 123—73.)



1. In an internal combustion engine a cylinder with a head thereon, within the cylinder a movable piston, within the cylinder head a throat for turning the charge into a vortex, in the casing of said throat a number of ports open for a suitable fuel admission and having adjacent slanting surfaces to turn the charge into said vortex, between the throat and the cylinder and thereto axially allned a circular vent, said vent forming a narrowing to the lower end of said throat to constrict the peripheral irregularly turning portion of said vortex into a smaller radius and a more uniform circumrotation, said vent having a smaller circumference than the bore of the cylinder to assure a more uniform circumfusion of said vortex within said cylinder, a valve adapted to seal said vent, means to ignite the charge and a suitable exhaust.

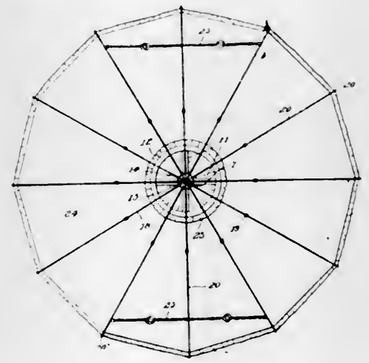
1,342,450. GLAZING-MACHINE. STEPHEN A. KOST and WILLIAM YAEGER, Buffalo, N. Y., assignors to The Quality Brands Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 30, 1919. Serial No. 273,988. 6 Claims. (Cl. 18—3.5.)

2. A glazing machine comprising a barrel adapted to contain a charge of glazing material and having an outlet at its front end, and a head at its rear end which is provided with a screw thread opening, a plunger movable lengthwise in said barrel, a spring bearing at its front end



against said plunger, a follower bearing against the rear end of said spring, and a compressor screw engaging with said follower and working in said threaded opening.

1,342,451. PARASOL. JOSEPH LEVIN, Baltimore, Md. Filed Aug. 19, 1919. Serial No. 318,491. 8 Claims. (Cl. 135—33.)



8. A device of the class described comprising a stick, a collapsible canopy carried thereby and including pivoted ribs, said canopy including means to cause the same to present a bottom relatively large as compared to the length of the canopy when collapsed and said means allowing the ribs to fold inwardly sufficiently to provide substantially cylindrical side walls for the canopy whereby the latter may assume the appearance and form of the body of a lady's hand bag when collapsed, and carrying means for permitting the device to be carried similar to a lady's hand bag.

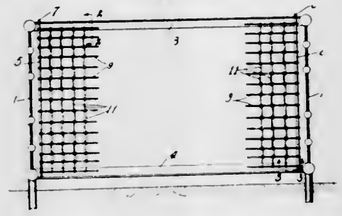
1,342,452. AWNING. WILLIAM HAMMOND MCOMBER, East Chicago, Ind. Filed July 18, 1919. Serial No. 311,729. 3 Claims. (Cl. 135—5.)

1. A device of the character specified, for use in connection with windows, comprising an awning frame connected with the casement and supporting a covering connected to the casement at the top and sides thereof and open at the bottom, and adapted to receive the head end of the bed beneath the said open bottom, and means within the covering for causing the circulation of air from the lower part of the window and out at the top of the window, said means comprising a deflector of flexible material connected to the side walls of the awning covering, and consisting of a portion approximately horizontal



for deflecting the air entering at the lower part of the window away from the window, and a portion inclined above said first named portion and in substantially parallel spaced relation to the awning covering top for conducting air to the top of the window.

1,342,453. FENCE-PANEL. JOHN MANELICH, Youngsville, Pa. Filed Nov. 25, 1919. Serial No. 340,534. 4 Claims. (Cl. 256—73.)



1. In a fence panel consisting of posts, top and bottom rails extending between said posts, bars extending between and rotatably mounted in the said rails adjacent said posts, a panel forming structure connected to said bars, and means whereby said structure may be displaced from said bars by rotation of the latter.

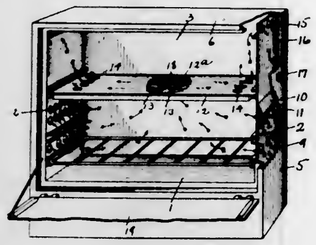
1,342,454. HARROW-SHOE. ROBERT S. MIX, Cohocton, N. Y. Filed May 28, 1919. Serial No. 300,248. 3 Claims. (Cl. 55—3.)





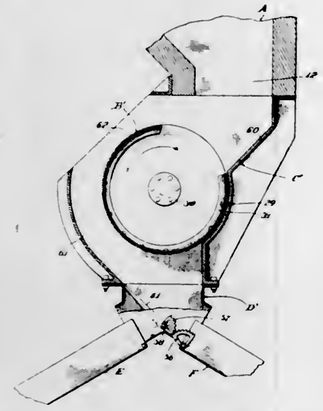
1. A wear plate shoe for harrows, said shoe comprising an elongated metallic member, means whereby said shoe may be secured to the under face of a harrow drag and said securing means allowing longitudinal adjustment of said shoe as desired.

1,342,455. OVEN. DANIEL J. MONIHAN, Erie, Pa., assignor to Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 25, 1918. Serial No. 263,967. 8 Claims. (Cl. 126—275.)



1. An oven comprising an oven chamber; means for introducing hot gases to the chamber; and a partition separating the chamber into an upper and lower space, said partition being in the form of a flue with a centrally located opening into one space and an opening near the periphery of the partition into the other space.

1,342,456. LOADING DEVICE. HENRY W. NAGEL, Chicago, Ill., assignor of one-half to August C. Ronda. Filed Apr. 23, 1919. Serial No. 292,106. 12 Claims. (Cl. 193—44.)



1. A loading device comprising a pocket, a double outlet spout, rotary means for receiving charges of material from said pocket and delivering them to said spout, chutes extending from the spout outlets, one of said chutes being movable, and means responsive to the movements of said movable chute to direct the delivery of the charge to either of said chutes.

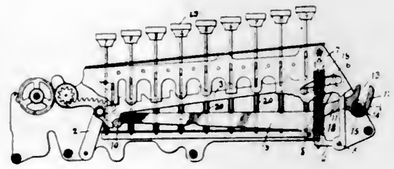
1,342,457. PROCESS FOR VULCANIZING RUBBER AND PRODUCT OBTAINED THEREBY. IWAN OSTROMISLENSKY, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company, a Corporation of New York. Filed July 29, 1916. Serial No. 112,187. 18 Claims. (Cl. 18—53.)

5. A process for treating rubber or similar material which comprises adding thereto a dye, a vulcanizing agent normally tending to injure the coloring material under vulcanizing conditions and an agent itself having no injurious effect upon the coloring material and adapted to prevent injury by said vulcanizing material and inducing vulcanization to take place.

1,342,458. PROCESS FOR VULCANIZING RUBBER AND PRODUCT OBTAINED THEREBY. IWAN OSTROMISLENSKY, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company, a Corporation of New York. Original application filed July 29, 1916, Serial No. 112,187. Divided and this application filed Nov. 24, 1916. Serial No. 133,134. 16 Claims. (Cl. 18—53.)

1. A process for treating rubber or similar material, which comprises subjecting the rubber to the action of sulfur and an organic vulcanizing agent containing oxygen and inducing vulcanization to take place under the action thereof.

1,342,459. ADDING-MACHINE. WALTER J. PASINSKI, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1919. Serial No. 308,320. 3 Claims. (Cl. 235—82.)



1. The combination with adding mechanism and a series of keys, of a lever operated upon by the latter; a pivotally mounted member supplying a movable fulcrum for said lever, the latter extending rearward therefrom and having a guiding slot; and a frame fixture in said slot; together with operating connections between the lever and the adding mechanism.

1,342,460. WINDOW-FRAME FOR VEHICLE-CURTAINS. EDWARD ERNEST PEMBLE, Vancouver, British Columbia, Canada. Filed Jan. 9, 1919. Serial No. 270,315. 2 Claims. (Cl. 296—145.)

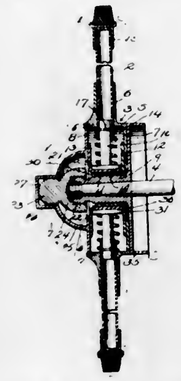


1. A window frame for curtains comprising a pair of plates, projections being pressed out of one of said plates, the other plate being provided with slots adapted to receive said projections, a pocket formed by one of said plates being provided with a longitudinally extending slot and having the sides and lower edges of said plate pressed outwardly, and the edges of the other plate being pressed out of the plane of the body for a purpose specified.

1,342,461. CUSHION-WHEEL. GEORGE M. PETERS, Kirkwood, Mo. Filed Mar. 30, 1917. Serial No. 158,728. 2 Claims. (Cl. 152—53.)

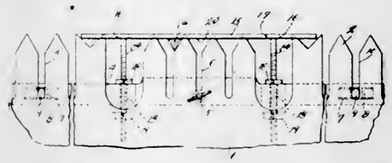
1. A cushion wheel having, in combination, a hub, an axle projecting into the hub, a sleeve mounted on the axle within the hub, the hub comprising an outer ring

to which the spokes of the wheel are secured, side plates carried by and projecting inwardly from said ring, an inner ring directly mounted on said sleeve, an intermediate ring directly mounted on the inner ring, side plates carried by and projecting outward from the inner and intermediate rings and lying against the inner faces of the



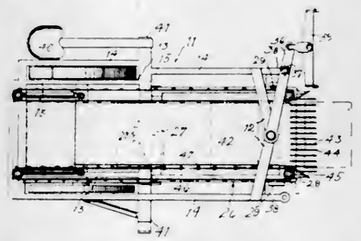
first named side plates, all of said rings and side plates providing a chamber for a cushioning medium, and universal joint connecting means between the axle and the hub having an element thereof provided on the end of said sleeve, the latter carrying at the side of the hub remote from said connecting means a plate which lies against the outer face of the adjacent side plate.

1,342,462. SAW-FILING DEVICE. JAMES L. PURDY, Union, Wash. Filed May 19, 1919. Serial No. 298,009. 3 Claims. (Cl. 76—46.)



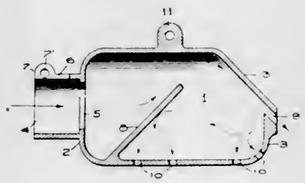
1. A file guide for saws comprising a bar, means for securing said bar to the teeth of a saw, vertically adjustable rods carried by said bar and a file guide carried by the upper ends of said vertically adjustable rods.

1,342,463. TRAY-PILING MACHINE. KATSUJIRO SANWO, Fresno, Calif. Filed May 6, 1919. Serial No. 295,249. 5 Claims. (Cl. 214—6.)



1. In a tray-piling machine, the combination with a frame, of a master-wheel and auxiliary wheel supporting the frame, an inclined frame pivotally connected to the main frame, truck wheels supporting the inclined frame, a pair of conveyer belts arranged to travel from the front end of the inclined frame to the rear of the main frame, tiltable carriers mounted on the conveyer belts and arranged in opposed relation to each other, means for operating the conveyer belts, means for tripping the carriers, vertical conveyer belts disposed at the rear of the machine, carriers on the vertical conveyer belts adapted to receive the trays from the first-named conveyer belts, means for operating the horizontal carriers with a downward step by step movement, and a stop operated by the trays as they approach the limit of their rearward movement, and arranged to control the actuating means for the stacking carriers and tripping means for the conveyers.

1,342,464. MUFFLER. FRANK P. SAWDERS and JAMES G. MURRAY, Pittsburgh, Pa. Filed Dec. 2, 1919. Serial No. 341,952. 4 Claims. (Cl. 137—160.)



1. A muffler comprising a chambered member provided with an intake opening and with a plurality of spaced discharge openings of main and auxiliary order, the auxiliary openings being each of less area than that of the main, and further provided with oppositely inclined deflectors, one of said deflectors leading directly to and terminating with the main discharge.

2. A muffler comprising a chambered member provided with an intake opening and with a plurality of spaced discharge openings of main and auxiliary order, the auxiliary openings being each of less area than that of the main, and further provided with primary and secondary deflectors disposed at approximately right angles to one another, one of said deflectors leading directly to and terminating with the main discharge.

3. A muffler comprising a chambered member having a head at its forward end which is provided with an intake opening and at its rear with a head disposed at an inclination to form a secondary deflector and terminating in an elongated main discharge opening, said chamber having a primary deflector formed therein at approximately right angles to said secondary deflector, said member being further provided with a plurality of auxiliary discharge openings disposed in the lower rearward portion thereof between the main discharge and primary deflector.

4. A muffler comprising a chambered member having a head at its forward end which is provided with an intake opening and at its rear with a head having an inclined portion forming a secondary deflector which terminates with a transversely disposed main discharge opening formed in said head, said chamber having a primary deflector formed therein at approximately right angles to said secondary deflector, said member being further provided with a plurality of auxiliary discharge openings disposed in the lower rearward portion of the chamber and head.

1,342,465. CAR-DOOR LOCK. PETER SCHNEIDER, Oswego, N. Y. Filed Sept. 19, 1919. Serial No. 324,926. 4 Claims. (Cl. 70—69.)

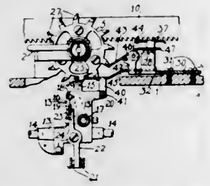
1. A lock for freight car doors comprising a cylinder secured to the car adjacent the door opening, a piston controlled piston rod in said cylinder, spring means for maintaining said piston in the bottom of said cylinder, a transversely disposed rockable lock controlled bolt carried by the wall of the car, said rockable bolt having secured

to its end a lever, the end of said lever engaging an elongated slot in the piston rod, a latch pivoted to the lock controlled rockable bolt, the outer end of the latch being adapted to engage a keeper carried by the car door said latch being disposed above a lug carried by the lock



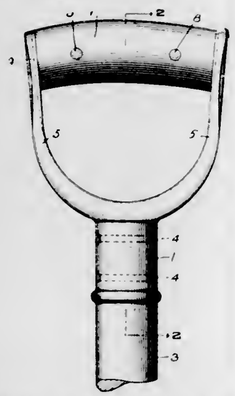
controlled rockable bolt lever and adapted to raise the pivoted latch out of engagement with the door keeper after air has been forced into the cylinder and the piston raised by the rotation of the rockable bolt, and means for maintaining the pivoted latch in its unlocked position after the same has been pivoted upwardly.

1,342,466. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,512. 27 Claims. (Cl. 197—82.)



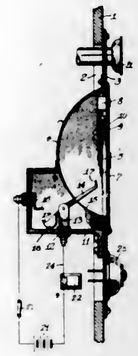
1. In a typewriting machine and in carriage controlling mechanism, the combination with an escapement wheel and key controlled feed dogs coöperating therewith, of a third dog for engaging and holding said wheel against stepping, and means for maintaining said third dog out of action during the operation of writing.

1,342,467. IMPLEMENT-HANDLE. JOSEPH V. SMITH, Pittsburgh, Pa. Filed May 13, 1919. Serial No. 296,818. 7 Claims. (Cl. 294—57.)



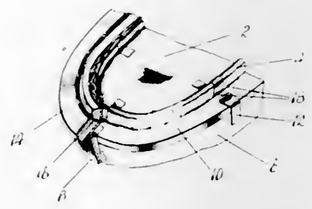
1. In a handle, a frame having a plane surface and flanges forming dihedral angles opposed to each other and having converging edges, said surface and flanges being adapted to receive a grip member and retain same against movement in all directions except one.

1,342,468. MAIL-BOX. WILLIAM B. SMITH and VERNA D. SMITH, Lansing, Mich. Filed Feb. 7, 1919. Serial No. 275,631. 1 Claim. (Cl. 200—57.)



A mail box comprising a wall plate having an opening, a semi-cylindrical receptacle carried by the inner face of said wall plate over the opening thereof, said receptacle having a slot in the bottom thereof, a door carried by the outer face of said wall plate and normally closing the opening thereof, a housing carried by the inner face of said wall plate and extending on to said receptacle in communication with the slot thereof, a bearing in said housing, a contact member in said housing, a contact arm carried by said bearing and extending through the slot of said receptacle and adapted to be tilted by mail matter deposited in the receptacle to engage said contact member and means associated with said contact arm to maintain it normally in engagement with the upper wall of the receptacle slot.

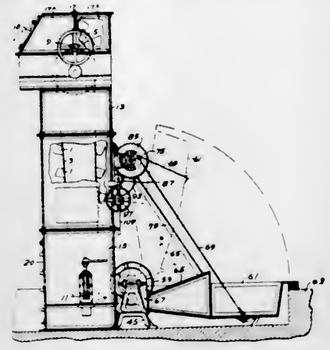
1,342,469. METHOD OF MAKING SHOES. WILLIAM C. STEWART, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 6, 1917. Serial No. 189,933. 15 Claims. (Cl. 12—142.)



1. That improvement in the art of making shoes which consists in locating an insole on a last bottom, binding the margin of the insole to the last, assembling an upper on the last, and lasting the upper over the margin of the insole while said margin is bound to the last.

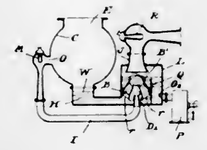
1,342,470. ELEVATOR. THOMAS J. STURTEVANT, Wellesley, and WILLIAM T. DOYLE, Boston, Mass., assignors to Sturtevant Mill Company, Boston, Mass., a Corporation of Maine. Filed Oct. 8, 1917. Serial No. 195,218. 6 Claims. (Cl. 214—91.)

1. The combination with an elevator, of a housing therefor having an inlet, a casing having a port therein, a hopper connected to said casing, said hopper and casing being movable to bring said port into and out of com-



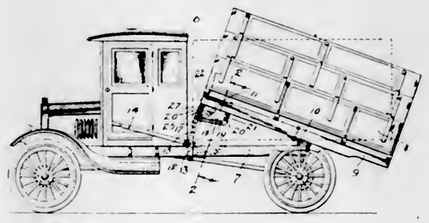
munication with said inlet, and means for automatically closing said housing inlet when said port is out of communication with said inlet.

1,342,471. AUXILIARY APPARATUS FOR CONDENSERS. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 9, 1917. Serial No. 167,389. 11 Claims. (257—24.)



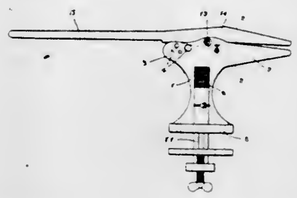
1. The combination with a condenser, of a condensate receptacle, an ejector submerged in the condensate and in communication with said receptacle for removing the condensate therefrom to a region of higher pressure, and an ejector for removing air from said condenser delivering into said first named ejector.

1,342,472. COMBINED LOCKING AND LIFTING DEVICE FOR TRUCK-BODIES. BERNHARD J. SYNSTELIEN, Fonda, Iowa. Filed Oct. 25, 1919. Serial No. 333,265. 5 Claims. (Cl. 298—19.)



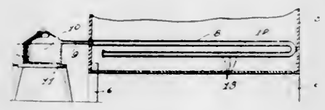
1. The combination with a truck frame, of a dumping body hinged to the truck frame, a rock-shaft journaled on the truck frame, a crank arm on the rock-shaft having at its outer end a crank-pin, means for oscillating the rock-shaft, and a bracket on the body having a cam slot in which the cam pin works.

1,342,473. PORTABLE SHEARS. NELS P. TANGWALL, Duluth, Minn. Filed Sept. 6, 1919. Serial No. 322,046. 3 Claims. (Cl. 164—44.)



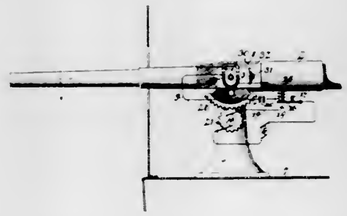
1. The combination with a manually operated tool of the character described of a support therefor comprising a body portion, an extension longitudinally adjustably carried by said body portion, a laterally extending fixed jaw carried by the body portion, a manually operated screw carried in the lower end of the extension and a second jaw carried upon the screw, and slidable within the extension for coöperative action with the fixed jaw.

1,342,474. BATH-CABINET. DON L. THOMPSON, Spokane, Wash. Filed Jan. 23, 1918. Serial No. 213,355. 2 Claims. (Cl. 4—13.)



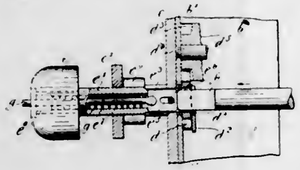
1. A bath cabinet comprising a hollow body portion having a patient receiving compartment in its upper portion and a steam conveying pipe entering the body portion and including a plurality of mutually connected sections disposed one below another beneath the patient-receiving compartment, the lower-most section having a series of outlet openings located longitudinally of its lower-most portion for passage of live steam therefrom upwardly of both sides of the section to both sides of the sections thereabove, the pipe being otherwise without an outlet.

1,342,475. GUN-CONTROL. SCOTT MCGEHEE THOMPSON, U. S. Navy. Filed Apr 22, 1918. Serial No. 230,159. 7 Claims. (Cl. 89—40.)



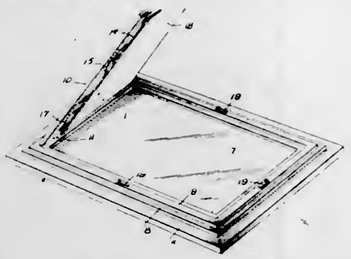
1. The combination of an ordnance member to be trained, a prime mover for shifting the position of said ordnance member, a source of energy for said prime mover, gravity actuated means for controlling the supply of energy from said source to said prime mover, and means for automatically compensating for physical changes in said gravity actuated means.

1,342,476. OPERATING DEVICE FOR VOTING-MACHINE REGISTERS, &c. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 23, 1919. Serial No. 332,580. 2 Claims. (Cl. 235—55.)



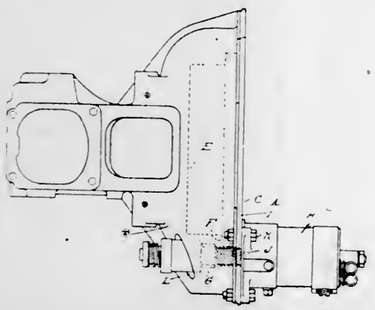
1. A combination with a register, and gearing for operating the same, including a gear having a driving aperture, of an operating knob supported in fixed position and a spring pressed driving member carried by the knob and normally in engagement with the driving aperture of said gear and movable out of such engagement by an implement introduced from the opposite side of the driving gear.

1,342,477. PICTURE-FRAME. ANTONI WALAS, Chicago, Ill. Filed Aug. 14, 1919. Serial No. 317,495. 1 Claim. (Cl. 40—155.)



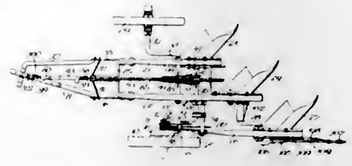
The combination with a picture frame having a glass plate loosely supported therein, and a hinged back, of a plate carried by the hinged back, flat springs resiliently connecting the plate to the back with the plate positioned for engagement with the glass plate.

1,342,478. ENGINE-STARTER. FRANK E. WATTS, Detroit, Mich., assignor to Hupp Motor Car Corporation, Richmond, Va., a Corporation of Virginia. Filed Dec. 14, 1917. Serial No. 207,026. 2 Claims. (Cl. 290—48.)



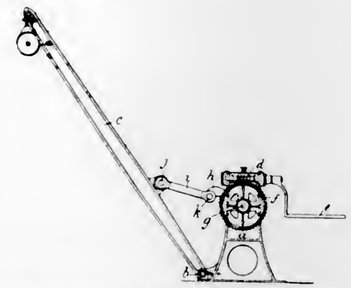
1. In an engine, the combination with the engine casing and an adjacent casing for housing a fly-wheel and transmission gearing, of a flange on the latter casing for securing the same to the engine casing, and a starting motor mounted on an extension of said flange.

1,342,479. LIGHT-TRACTOR GANG-PLOW. IRA A. WEAVER, Springfield, Ill., assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. a Corporation of Illinois. Original application filed Mar. 22, 1915, Serial No. 16,045. Divided and this application filed July 17, 1916. Serial No. 109,671. 12 Claims. (Cl. 97—36.)



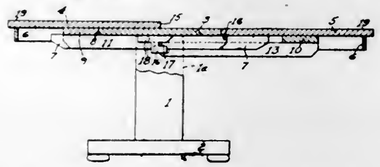
1. In a gang plow, a pair of carrying wheels, cranked axles therefor having rocker arms projecting therefrom, a plurality of plow units carried by the cranked axles, a screw spindle fixed against longitudinal movement and extending within reach of the driver and having an operating handle, nuts on the screw spindle, and a connection between the nuts and the rocker arms whereby the depth of the plow units may be adjusted and the plows raised and lowered by the rotation of the spindle.

1,342,480. CRANE. AXEL WELIN, London, England, assignor to American Balsa Company, Inc., a Corporation of New York. Filed July 26, 1915. Serial No. 41,903. 1 Claim. (Cl. 212—8.)



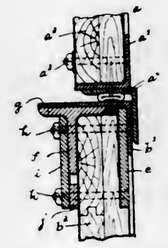
The combination with a crane arm pivoted on a fixed pivot at its lower end to swing in a vertical plane, a vertically-disposed frame located contiguous to said pivot, a fixed spindle supported in said frame in an elevated position, a turning member having a radial part movable in the arc of a circle above said spindle and to opposite sides thereof, means for actuating said radial part to move in opposite directions, and a connecting member pivoted at one end to said radial part and having a pivotal connection with the crane arm at its opposite end at a point on said crane arm substantially opposite in a horizontal direction a portion of the arc described by said radial part, whereby actuating power may be exerted on said crane arm in a substantially horizontal direction.

1,342,481. EXTENSION-TABLE. CHARLES R. WENNERSTROM, New York, N. Y. Filed Dec. 4, 1919. Serial No. 342,312. 13 Claims. (Cl. 45—113.)



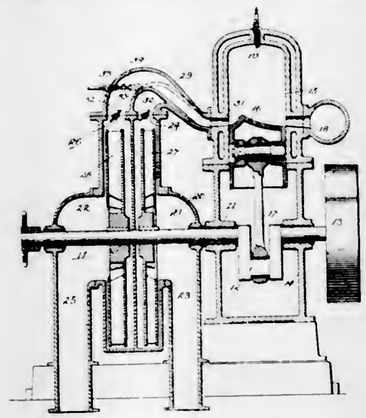
1. An extension table having the combination of supporting means, an extension leaf fixed to said means, a pair of sections normally resting upon said leaf adjacent each other and constituting the table-top, and means to move said sections apart in the direction of their own planes and drop them to the level of said leaf for extending the table.

1,342,482. FIREPROOF ELEVATOR-DOOR. BENJAMIN WEXLER, Brooklyn, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,486. 4 Claims. (Cl. 189—46.)



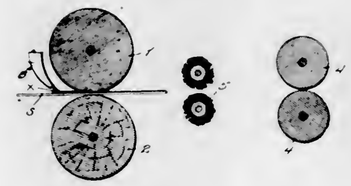
1. A fireproof elevator door composed of two sliding sections oppositely movable in substantially the same vertical plane, the lower of said sections having embodied therein a frame composed of top, bottom and side bars of angle metal, having one flange extending about the edge of said section, and the other flange extending inwardly thereof, a metal sheathed timber panel within said frame, metal reinforcements between the flanges of said top bar and said panel and upon the opposite side of said panel, the reinforcement adjacent said inwardly extending angle of the top bar of the frame being permanently secured thereto and to the inwardly extending flanges of the side bars, and the reinforcements on opposite sides of said panel being bolted together and to said top and said side bars, lateral extensions forming an integral part of said reinforcements projecting beyond said side bars respectively, flexible connections between said extensions and the upper door section, and stops coöperating with said extensions, whereby said lower door section will be sustained adjacent the side of a door opening and the load on the frame of the door will be transmitted to said extensions and said stops, and tilting and rocking of said frame will be prevented.

1,342,483. INTERNAL-COMBUSTION ENGINE. CHARLES C. WICKWIRE, Cortland, N. Y. Filed May 12, 1916. Serial No. 97,135. 5 Claims. (Cl. 123—69.)



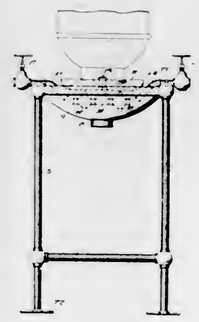
1. In combination with an internal combustion engine of the two stroke cycle type, provided with individual ports for gas and for air at one side of the cylinder, and with an exhaust port at the opposite side; two rotary impeller pumps, one connected to feed the gas inlet port and the other to feed the air inlet port; and connections for driving said pumps in unison.

1,342,484. PROCESS FOR FINISHING IRON AND STEEL PLATES. CHARLIE WILLIAMS, Granite City, Ill., assignor of one-third to Nels Nelson, Granite City, Ill. Filed June 9, 1919. Serial No. 302,925. 5 Claims. (Cl. 29—18.)



1. A process for finishing pickled plates, characterized by washing the plates with a soapy solution after they have been removed from the pickling bath, rinsing the plates, then annealing the plates in the presence of sulfurous fumes, subjecting the plates to the action of dry air after the annealing operation, and finally cold rolling the plates so as to give them a high polish.

1,342,485. CAN-WASHER. GEORGE CLIFFORD WILTSIE, Schenectady, N. Y. Filed May 31, 1919. Serial No. 300,923. 1 Claim. (Cl. 141—7.)

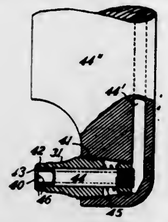


A device of the character described comprising a support, a drain pan mounted rigidly thereon, a pair of pipes mounted above said pan, a T connecting said pipes, a nozzle extending upwardly from said T, a perforated bowl disposed above said T and having a hole in its bottom through which said nozzle passes whereby said bowl will be tiltable, and means operated by said tilting for controlling the passage of fluid through said pipes.

1,342,486. ATOMIZING-NOZZLE. MERL R. WOLFARD, Cambridge, Mass. Filed Aug. 11, 1916. Serial No. 114,464. 13 Claims. (Cl. 299—133.)

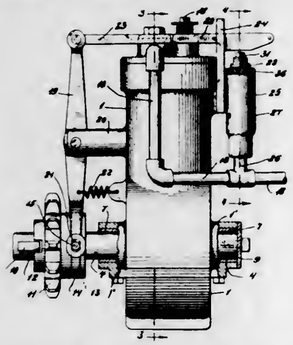
1. An atomizing nozzle having an automatically variable discharge opening for intermittent action comprising a tube; a terminal valve having the valve face and valve seat parallel surfaces pressed together in closing; and a

valve stem which is tubular, fitting closely within said tube, conveying fluid within the stem to the immediate



vicinity of said valve, and having distribution passages leading thence through the wall of the stem directly to the valve seat when the valve is closed.

1,342,487. AIR COMPRESSOR AND REGULATOR. GUY F. WOLFE, Frederick, Md. Filed Oct. 4, 1919. Serial No. 328,423. 2 Claims. (Cl. 103—87.)



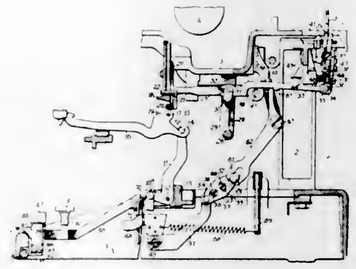
1. An apparatus of the class described comprising an air compressor, actuating means for the same, means for detachably connecting the actuating means with the compressor, said means including a latch bar, and means for releasing said latch bar after a predetermined pressure has been reached, said means including a valve casing connected with the compressor, a valve therein having its stem adapted to engage with the latch bar when the valve is raised by the air pressure, a spring for controlling said valve and means for adjusting the pressure of said spring.

1,342,488. WALL-CLEANING MACHINE. CHARLES S. WOODS, Indianapolis, Ind. Filed June 9, 1919. Serial No. 302,659. 5 Claims. (Cl. 15—14.)



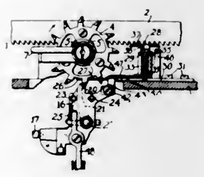
3. Apparatus for cleaning walls and the like including an adjustable support, a vertical and a horizontal mount on said support, cleaning means adapted to be interchangeably secured on said mounts for cleaning either a vertical or a horizontal surface, and mechanical means for driving said cleaning means.

1,342,489. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,657. 32 Claims. (Cl. 197—82.)



1. In a typewriting machine, the combination of type bars, a universal bar controlled thereby, a dog carrier, intermediate operative connections between said universal bar and dog carrier, a space key, a rock shaft to which said space key is connected, and adjustable operative actuating connections between said space key and the connections intermediate the universal bar and the dog carrier.

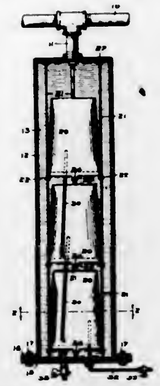
1,342,490. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Apr. 10, 1919. Serial No. 288,957. 26 Claims. (Cl. 197—82.)



1. In a typewriting machine and in carriage controlling mechanism, the combination with an escapement wheel, of a two-armed margin dog, one arm adapted to engage the escapement wheel and the other provided with a shoe having a spring shank, and a guard mounted on said shank to prevent improper bending.

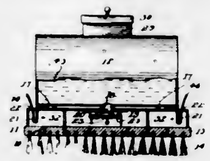
1,342,491. WATER-SUBMERGED AIR-CHAMBER FOR WATER-PIPES. HOWARD H. YORK, Logansport, Ind. Filed July 14, 1919. Serial No. 310,700. 5 Claims. (Cl. 137—71.)

1. The combination with a water service pipe, of a closed water tank having its interior in communication with the interior of the service pipe, and a plurality of spaced air tanks arranged *seriatim* and submerged within



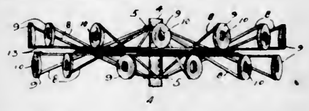
the water tank, and a pipe extending from outside the water tank and into the interior of the air tanks for introducing air into the latter.

1,342,492. COMBINATION FOUNTAIN-BRUSH. MACIEJ ZABOY, Allentown, Pa., assignor of one-half to Wojciech Daniel, Allentown, Pa. Filed Mar. 19, 1919. Serial No. 283,472. 2 Claims. (Cl. 15—44.)



1. A device of the class described comprising a brush, a casing carried by the brush back and having a keeper opening formed adjacent each end, a tank having spring fingers detachably received in said openings and controlling means for supplying the water in the tank to said brush.

1,342,493. TRACTOR-WHEEL. PAUL R. ZIECHE, Moville township, Woodbury county, Iowa. Filed Sept. 25, 1917. Serial No. 193,062. 1 Claim. (Cl. 21—217.)



A traction wheel including a hub, a rim having outwardly flared flanges at its sides, two series of spokes secured respectively to the ends of the hubs and intersecting each other within the rim, the spokes of each series being secured to the flanges opposite the end of the hub to which they are secured, the spokes being extended from the rim, and tread members on the ends of the spokes.

1,342,494. COMBINED HAIR-PLANE AND SAFETY-RAZOR. EDGAR A. ZIMMERMAN, Shamokin, Pa. Filed Feb. 20, 1920. Serial No. 360,097. 6 Claims. (Cl. 30—12.)



1. A device of the character described comprising a handle, clamping means pivotally attached thereto, said clamping means comprising a pair of resilient clamping members permanently attached at their inner ends, and a comb and blade or blades positioned between said clamping members, substantially as described.

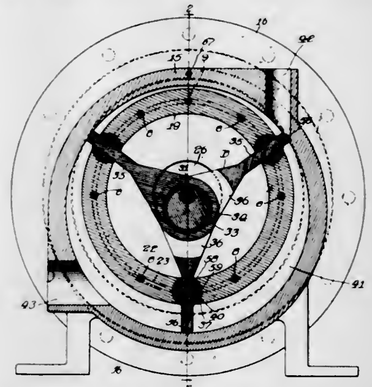
1,342,495. GUARD FOR PICK-HANDLES. CHARLES D. BROSCH, Duquoin, Ill. Filed Sept. 24, 1919. Serial No. 326,098. 2 Claims. (Cl. 287—36.)



1. A pick-handle guard made of metal having inturned spurs at the side edges as well as holes to receive screws for fastening the guard to the handle.

2. A pick-handle guard made of metal having inturned spurs at the side edges as well as holes to receive screws for fastening the guard to the handle, and provided with V-shaped notches at the center and corners of the outer edge.

1,342,496. ROTARY ENGINE. JOHN D. CARROLL, Evansville, Ind., assignor to Turbo Rotary Engine Co., Evansville, Ind., a Corporation of South Dakota. Filed Oct. 9, 1916. Serial 124,533. 4 Claims. (Cl. 121—88.)



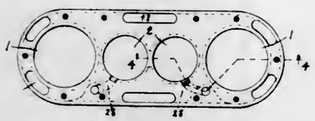
1. In a rotary engine, the combination with a stationary housing comprising end structures and a central structure forming a cylinder, of a rotary drum structure in said housing having on one end thereof a laterally extending hollow hub, a hub extending inwardly from one end structure, an annular hub extending inwardly from the other end structure and surrounding said drum hub, annular bosses extending laterally from said drum structure and surrounding the hubs of said end structures, anti-friction bearings interposed between said bosses and hubs to mount said drum structure for rotation, a bearing boss forming an inward eccentric extension of one of said end structure hubs, a shaft extending through and secured to said drum hub and also extending through and journaled in said bearing boss, and piston blades journaled at their inner ends on said bearing boss and extending through slots in said drum structure.

1,342,497. PAINT COMPOSITION. ANTON G. CHRISTMAN and CHARLES W. KOEPP, Milwaukee, Wis. Filed Jan. 17, 1920. Serial No. 352,190. 2 Claims. (Cl. 134—55.)

1. A paint composition comprising a vehicle containing the following ingredients: powdered mineral, turpen-

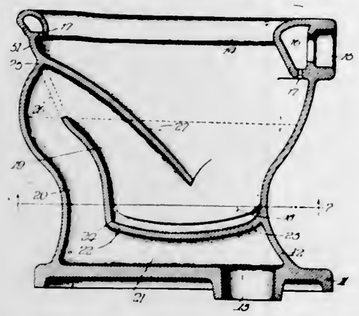
tine, linseed oil, mineral oil and a drier, and a water solution of the following ingredients: glue, borax, sal soda, and sugar of lead.

1,342,498. ENGINE. CLARENCE CHARLES CLAYBERG, Detroit, Mich. Filed Nov. 8, 1919. Serial No. 336,653. 2 Claims. (Cl. 123—70.)



1. In an internal combustion engine, the combination of feeding and working cylinders, pistons therein, a crank shaft and connecting rods between the pistons and the crank shaft, and a passage connecting said cylinders and positioned to be opened by the working piston near the end of its working stroke, said feeding piston being provided with an arched conduit adapted to register with said passage connecting said cylinders through which exhaust gases from the working cylinder may pass to heat the end of the feeding piston.

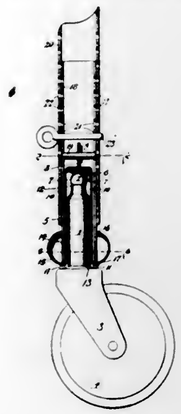
1,342,499. CLOSET-BOWL. FREDERICK J. CLIFFORD and LINDON A. PERRY, Chicago, Ill., assignors to Chicago Pottery Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Jan. 22, 1918, Serial No. 213,131. Divided and this application filed Feb. 1, 1919. Serial No. 274,402. 6 Claims. (Cl. 25—156.)



1. The process of making a closet bowl which includes the following related steps: casting the outer body wall and the trap forming spoon, and thereafter positioning a basin forming tongue or partition above said spoon.

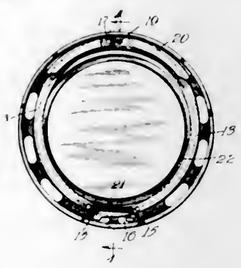
1,342,500. CASTER. ALBERT E. FINCH, Buffalo, N. Y., assignor to Belt Grip Pulley Company, Buffalo, N. Y., a Corporation of Delaware. Filed Apr. 7, 1916, Serial No. 89,610. Renewed Mar. 6, 1919. Serial No. 281,079. 8 Claims. (Cl. 16—164.)

1. A caster having a carriage comprising an upright pintle provided at its upper end with a spherical head, a yoke at the lower end of said pintle and a wheel pivoted on said yoke, and a mounting for said carriage comprising a socket having a lower tubular body which receives said pintle and a spherical seat at the upper end of said body which receives said spherical head, said socket being constructed of a single piece of sheet metal which has its opposite parts folded together and constructed to form two opposing half seat and body sections which receive said head and pintle, the upper ends of said sections forming a vertical transverse web of two plies of metal, the lower ends of said sections being provided with laterally projecting lugs, and the longitudinal edges of said socket sections being provided with curved bearing flanges, a tubular bushing interposed between the lower part of said socket and said pintle, a spherical ferrule having upper and lower openings and resting with its underside



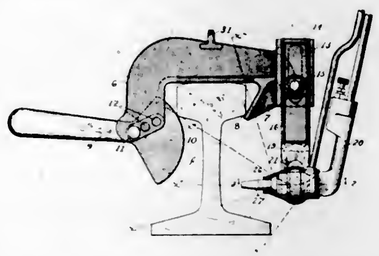
on said lugs, and a tubular shank surrounding said socket and arranged in said ferrule and engaging its bore with said bearing flanges and its lower end with the lower part of said ferrule.

1,342,501. HOT-AIR MOTOR. LLOYD D. FREELAND, Halbrite, Saskatchewan, Canada, assignor to William J. H. Strong, Chicago, Ill. Original application filed Mar. 27, 1915, Serial No. 17,568. Divided and this application filed Jan. 17, 1918. Serial No. 212,212. 11 Claims. (Cl. 60—24.)



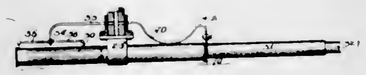
1. In a hot air motor, a chambered base open at its lower end, a fuel font adapted to be received in said base through said open end, yielding means within the base for engaging the font to retain it in the base, and font release means accessible from the outside of the base.

1,342,502. RAIL-CUTTING DEVICE. FRANKLIN C. HASSE, Congress Park, Ill. Filed Mar. 8, 1918. Serial No. 221,332. 4 Claims. (Cl. 266—23.)



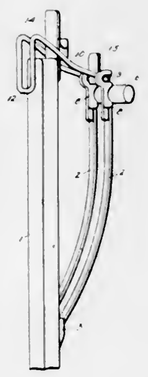
4. A device of the class described, comprising a saddle portion adapted to fit over the head of a rail, one end of said portion being formed to engage beneath the railhead, a cam adjustably pivoted to the other end of said portion so as to engage with the adjacent side of the railhead, a vertically disposed member secured to one end of the saddle portion so as to depend beneath the railhead, a second member rotatably secured in the lower end of the first member so as to extend parallel with the rail beyond the side of the saddle portion, yielding means whereby the second member is held in its adjusted positions, and a blow-pipe holding socketed member adjustably secured to one end of said second member.

1,342,503. ERECTING-MACHINE. CORNELIUS G. HASTINGS, Glendale, Calif., assignor to Hastings Tunnel System Company, a Corporation of New York. Filed Nov. 26, 1915. Serial No. 63,495. 8 Claims. (Cl. 61—84.)



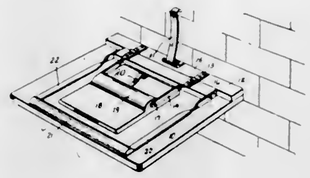
1. A tunneling machine comprising a movable carriage, a telescoping arm comprising interfitting sections rotatably mounted on said carriage, jaws mounted on the outer section and mechanism for independently or collectively extending and retracting said sections.

1,342,504. PAPER-FILE. MAURICE BERNAYS JOHNSON, Newark, N. J. Filed Dec. 5, 1919. Serial No. 342,783. 4 Claims. (Cl. 24—66.)



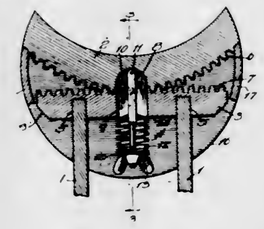
1. A paper file comprising a baseboard, a reciprocally mounted clasping member secured to one surface of said baseboard and adapted to engage papers contacting with the opposite surface thereof, resilient means for functioning said clasping member, said clasping member being substantially U shaped and having the legs thereof provided with a plurality of contours, and a guide member for each of the legs of the said clasping member, the relation of the legs of said clasping and guide members being such as to cause the clasping member to clear the edge normally projecting intermediate the mounting and the closed end of said clasping member.

1,342,505. LID FOR CLOSET-SEATS. GEORGE EDWARD KINCH, Quirindi, New South Wales, Australia. Filed Apr. 13, 1917. Serial No. 161,918. 12 Claims. (Cl. 4—18.)



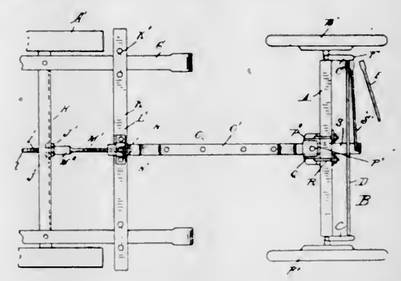
1. The combination with a closet seat, of means hingedly connected to the rear of said seat, and a seat lid pivotally carried by the forward end of said means, the forward edge of said lid being at all times in advance of its pivotal axis and in the open position below said axis.

1,342,506. CRUTCH. ALFRED B. LOUISON, Rockford, Ill. Filed Feb. 24, 1919. Serial No. 278,605. 7 Claims. (Cl. 135—52.)



1. A crutch having, in combination, a top-piece, a bearing member for the top-piece, said top-piece and bearing member being shaped to permit relative rolling motion therebetween and having intermeshing teeth, a rod pivoted at one end to said top-piece and having a nut on its other end, a spring bearing between said nut and said bearing member, said bearing member having a central slot therein through which said rod extends, and plates secured on opposite sides of the top-piece and adapted to inclose substantially the moving parts.

1,342,507. TOWING CONNECTION FOR VEHICLES. RAYMOND F. MCNAMARA, Detroit, Mich., assignor to Maxwell Motor Company, Inc., Detroit, Mich., a Corporation of Delaware. Filed May 13, 1918. Serial No. 234,079. 4 Claims. (Cl. 280—33.5.)



1. In a towing connection for vehicles, the combination with a draw-bar, of a coupler member having a portion adapted for attachment to the front axle of the towed vehicle, and a portion with a passage-way therethrough

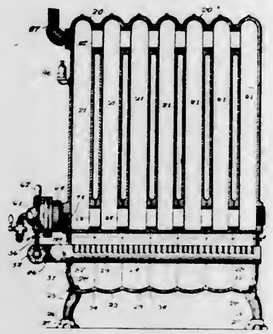
for said draw-bar, said passage-way providing clearance for limited universal movement of said draw-bar relative thereto, and means for pivotally connecting said draw-bar to said coupler member.

1,342,508. NUT-LOCK. MELVIN B. REED, Latrobe, Pa. Filed Nov. 1, 1919. Serial No. 334,924. 5 Claims. (Cl. 151—12.)



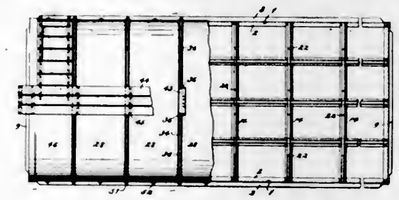
5. In a device of the character described, in combination, a bolt having a threaded end and a plurality of longitudinally parallel channels of substantially trianguloid form in cross section, a nut provided with wrench receiving faces and in internally threaded opening to receive the bolt, and having a recess in the side thereof communicating with the opening therein, a pivoted spring-actuated pawl within the recess whereby the nut may be moved forward and backward at will and dog 9 and stud 5 which are adapted to control the operation of the pawl.

1,342,509. RADIATOR. FRANK L. RICE, Chicago, Ill., assignor to James B. Clow & Sons, a Corporation of Illinois. Filed Dec. 11, 1915. Serial No. 66,289. 1 Claim. (Cl. 237—17.)



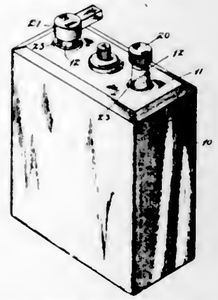
A radiator composed of a plurality of sections provided with hollow columns and a bottom header, each section being provided with a continuous open-sided shell formed integral with the front and rear walls of the lower part of the section and disposed beneath said bottom header so as to provide an integral sectional combustion chamber, said shell-formations being arranged to extend beyond the sides of the respective radiator-sections so as to permit the shell-formations to abut against each other, the abutting edges of said shell-formations being provided with registering notches whereby a series of air ports for said chamber are provided, the end sections of the radiator being each provided with an end wall formed integral with the open-sided shell-formation of said end sections, said end walls of the end sections being provided with openings, removable means for closing said openings, said removable means being provided with burner-receiving openings, in combination with an elongated burner arranged in said combustion chamber through said openings in said means and extending from end section to end section of the radiator, and means for supporting said burner in position.

1,342,510. CAR-ROOF. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1915. Serial No. 46,076. 5 Claims. (Cl. 108—5.)



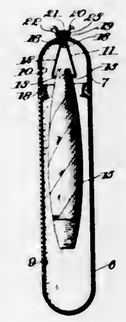
1. In a car roof, in combination: a roof frame comprising side plates, carlines arched from side plate to side plate channeled on their under sides and formed with lateral bottom flanges, and a ridge pole and purlins beneath the carlines channeled on their upper sides and having lateral top flanges; means for uniting said flanges of the ridge pole and purlins with the flanges of the carlines; roof sheets formed with seam flanges inclosing the tops and a part of the sides of the carlines, one of the two meeting roof sheets having a side flange and a top flange and the other sheet having two side flanges and a top flange forming a cap inclosing the said flanges of the first mentioned sheet, and said top flanges being rigidly spaced apart one above the other and both bolted to the top web of the carline; and filler bars in the channels of the ridge pole and purlins and supporting the bodies of the roof sheets between the carlines, said filler bars extending up to points above the bottoms of the carlines and below the tops of the seam flanges of the roof sheets.

1,342,511. TERMINAL-SEAL FOR STORAGE BATTERIES. MCCONNELL SHANK, Akron, Ohio, assignor, to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1919. Serial No. 275,947. 3 Claims. (Cl. 204—29.)



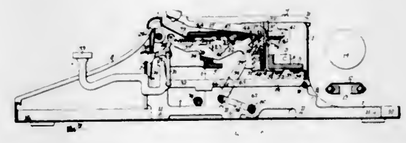
3. In a terminal seal for storage batteries, the combination of an apertured cell cover, a post extending through the aperture in said cover, a seating gasket interposed between the lower side of said cover and a shoulder on the post, and a wedge occupying a transverse slot in the post and soldered thereto with its two ends overlying the upper side of the cover for holding said gasket under compression.

1,342,512. CIGAR HOLDER AND SAVER. JOHAN SKINDERVIKEN, Chicago, Ill., assignor of one-half to Olaus Eklo, Chicago, Ill. Filed Oct. 18, 1918. Serial No. 258,732. 3 Claims. (Cl. 206—41.)



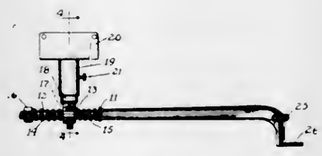
1. A cigar holder having holding means, said holder having a slot, said holding means comprising arms extending through said slot, means to pivot said arms, a rod secured to one of said arms and suspended loosely relatively to the other arm, and a spring surrounding said rod and urging said arms apart above the pivot.

1,342,513. TYPEWRITING-MACHINE. ARTHUR W. SMITH, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Sept. 27, 1919. Serial No. 326,705. 11 Claims. (Cl. 197—186.)



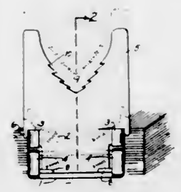
1. In a typewriting machine, the combination of a set of type bars each pivoted in the fixed framework of the machine, a type bar lifter, means for raising and lowering said lifter to expand and compact said set of type bars, and a fixed guide for said lifter.

1,342,514. FRONT-AXLE BRACE. JOHN SPOHR, Chicago, Ill., assignor to Howard R. Brush, Chicago, Ill. Filed Jan. 29, 1920. Serial No. 354,895. 8 Claims. (Cl. 267—67.)



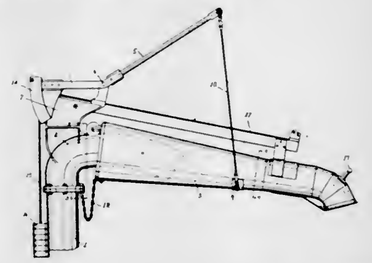
1. In a device of the class described, the combination of an axle, a frame member, a brace secured at one end of said axle, a stud pivotally connected to the other end of said brace, and a bracket attached to said frame member, sid bracket having a tubular extension for adjustably receiving said stud, and means for securing said stud in any desired position in said extension.

1,342,515. BONE-HOLDING DEVICE. MAX THEIMER, Elizabeth, N. J. Filed Dec. 3, 1919. Serial No. 342,298. 12 Claims. (Cl. 17—14.)



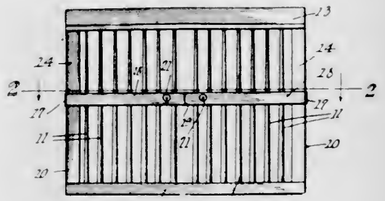
1. In a bone holding device the combination of a thin plate having a toothed notch and a support for said plate, said support and said plate being suitably constructed to permit the lowering of said plate into inoperative position.

1,342,516. STANDPIPE. HARRY E. THOMPSON and PERCY L. BUNN, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 19, 1918. Serial No. 254,744. 11 Claims. (Cl. 137—21.)



11. In a water column or standpipe, the combination of a vertical pipe, a laterally projecting nozzle therefor, a discharge spout arranged over said discharge nozzle for pivotal and longitudinal adjustment thereon, a lever pivotally mounted to project over said discharge spout, a spout supporting cable connected to the front end, and a counter-balance connected to said lever at the rear of its pivot.

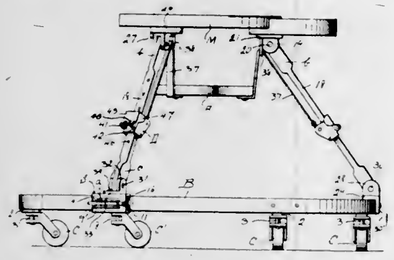
1,342,517. BILLIARD-CUE LOCK. ANDREW CLAUDE TYSON, Kissimmee, Fla. Filed Dec. 20, 1919. Serial No. 346,241. 2 Claims. (Cl. 46—6.)



1. A billiard cue locking device for cue racks, comprising a body member having means for securing the same to the rack, said body member having semi-circular recesses in its front face, keepers carried by said body member, hinged sections mounted at the ends of the body member, and being adapted to be brought into abutting relation at their inner ends when closed against the body member, said hinge member having recesses corresponding to the first mentioned recesses and adapted to register therewith when the hinged members are closed against the

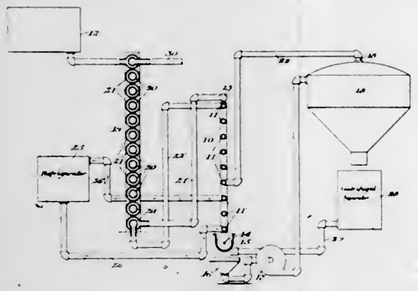
body member, and key operated locking devices carried by the free end portions of the hinged sections coöperating with said keepers to secure the hinge members against said body member, whereby to retain the cues in position.

1,342,518. BABY-WALKER. JOHN J. WEBBER, Rochester, N. Y. Filed Aug. 27, 1919. Serial No. 320,276. 8 Claims. (Cl. 155—22.)



1. A baby walker comprising a base, a supporting member positioned thereabove, supporting arms interposed between the base and the supporting member, a saddle positioned below the supporting member, and supporting members for the saddle coacting with the first named supporting member and the legs.

1,342,519. METHOD OF AND APPARATUS FOR PRODUCING PURIFIED SALT. FRANK G. WHEELER, Appleton, Wis., assignor to Bleach Process Company, Appleton, Wis., a Corporation of Wisconsin. Filed Nov. 16, 1918. Serial No. 262,819. 17 Claims. (Cl. 23—13.)

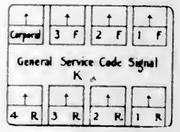


1. The process of separating one salt from a solution containing different salts which consists in passing the solution over a cooling surface, thereby causing crystals of said salt to precipitate on said surface, detaching the crystals from such surface, collecting the solution and detached crystals, and removing the crystals from the solution before they have a chance to be redissolved therein.

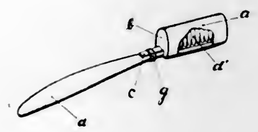
5. Apparatus for producing a purified salt from a solution containing as impurity another salt, comprising an open asmospheric cooler, means for passing the solution over said cooler, means for detaching the crystals from the surface of the cooler and means for removing the detached crystals from the solution.

1,342,520. SYSTEM AND EDUCATIONAL APPLIANCE FOR MILITARY SELF-INSTRUCTION. CARR W. WRIGHT, Cincinnati, Ohio. Filed May 13, 1918. Serial No. 234,151. 6 Claims. (Cl. 35—12.)

1. A set of cards comprising small units each suitably marked to represent a soldier or officer with his front or rear rank position and the direction he is facing indicated thereon; with other cards representing in like manner groups of enlisted men below the rank of sergeant, in squad formation; said cards together adapted to be arranged in such continuity as to correctly represent diagrammatically formations or movements of infantry organization.



1,342,521. PROTECTED TOOTHBRUSH. KICHIBEI YANAGIHARA, Sakai, Osaka-Fu, Japan, assignor to Sakai Kako Celluloid Kwaisha, Ltd., Sakai, Japan, a Corporation of Japan. Filed June 17, 1918. Serial No. 240,470. 4 Claims. (Cl. 206—15.1.)



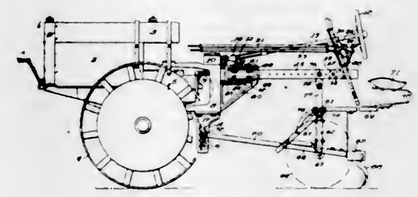
1. The combination with a brush comprising a handle carrying bristles or the like, of a sheath of guard inclosing said bristles and having an end piece secured thereto and to the brush handle to hold the sheath in place while the brush is in transit and before it is used, said end piece being detachable when the brush is to be used, and said sheath being thereafter adapted to be used as a dust guard for the brush.

1,342,522. BACK-SPRING CONSTRUCTION. LEONARD A. YOUNG, Detroit, Mich. Filed Nov. 3, 1919. Serial No. 335,482. 10 Claims. (Cl. 155—179.)



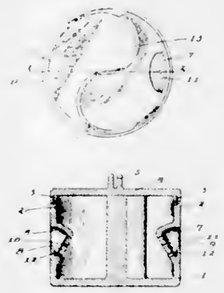
1. A back spring construction comprising a rim frame, body springs disposed thereon, and arranged with the height thereof diminishing from the middle of the construction toward the sides thereof and means articulating the outer coils of the springs to each other and to the rim frame and confining the top coils of the body springs to lie in a curved plane from edge to edge of the construction.

1,342,523. TRACTOR. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Nov. 7, 1919. Serial No. 336,383. 12 Claims. (Cl. 180—12.)



1. The combination in a tractor, of a power unit, control means for said unit, a yoke member vertically pivoted and horizontally movable with respect thereto, a beam extending rearwardly from said yoke member and operative to support said control means and means operative to connect said beam and said yoke member and permit the oscillation of said beam with respect to said yoke member about the longitudinal axis of said beam.

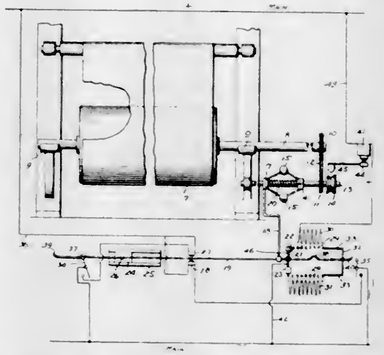
1,342,524. CONDIMENT-HOLDER. ELIZABETH AMENT, Brooklyn, N. Y. Filed Mar. 25, 1920. Serial No. 368,512. 4 Claims. (Cl. 65—45.)



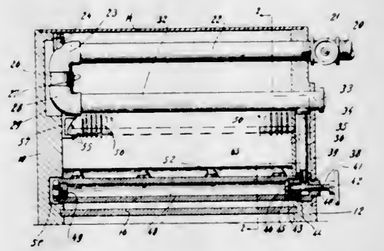
1. A condiment holder comprising a one-piece receptacle, an S-shape or pocketed partition within said receptacle and integral therewith, indented discharge means at opposite sides of said receptacle, the faces or surfaces through which the salt and pepper pass being in angular relation to the sides of the receptacle, and a detachable top, substantially as described.

1,342,525. WEB-TENSION BRAKE MECHANISM FOR PRINTING-PRESSES. THEODORE J. BERGH, New York, N. Y. Filed July 12, 1919. Serial No. 310,467. 5 Claims. (Cl. 74—70.)

5. An apparatus as characterized comprising, a brake wheel operatively connected with the spindle of a paper roll; a brake shoe operatively disposed with reference to said brake wheel; an electric prime mover for actuating said brake shoe; a centrifuge operatively connected with said brake wheel, said centrifuge having a reciprocating member; an electric system for supplying said prime mover, said system embodying a rheostat and reciprocating wiper contact, movable thereover for varying the amount of resistance on the line supplying said prime mover, said rheostat having a plurality of resistance loops, said loops being arranged in separated parallel groups at opposite sides of said wiper; electro-mechanical means operatively connected with said wiper for shifting the same from contact with one series of loops, to contact with the opposite series of loops at a predetermined point in the forward movement of said wiper; and means for shifting said wiper to a neutral position on said rheostat when said brake wheel is stopped.

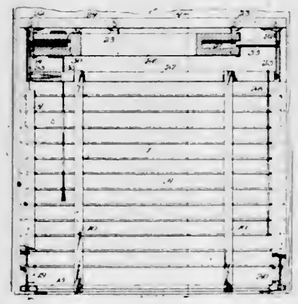


1,342,526. LIQUID-FUEL BURNER. EMIL R. BITTNER, Victoria, Tex. Filed Jan. 31, 1919. Serial No. 274,226. 4 Claims. (Cl. 158—63.)



1. A fuel oil burner comprising a pair of horizontal tubes, disposed one over the other, a U-shaped bend connecting at one end therebetween, means for controlling the inlet of fuel to the upper of said tubes, a pair of divergent pipes engaged with the lower of said tubes, valve casings engaged with the lower end of said pipes, control valves in said casings, longitudinally extending cylinders engaged in said heads, a plurality of burners in said cylinders, a bar extending below said tubes and a plurality of plates secured to said bar over said burners whereby heat may be converged thereto.

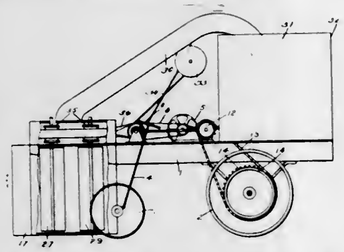
1,342,527. VENETIAN BLIND. JOHN CAHILL, Norfolk, Va. Filed June 17, 1916. Serial No. 104,311. 7 Claims. (Cl. 156—17.)



1. In a Venetian blind, the combination of tilting and lifting bars, a series of intermediate slats supported rela-

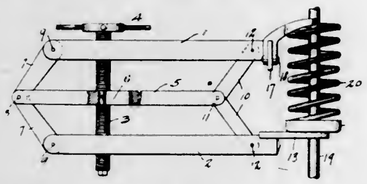
tively to said bars so that when lifted they will be picked up in nested or directly abutting relation, side casings constituting guides for said slats and bars, a cord winding roller, compensating rollers on the lifting bar, and cords extending through the side casings and operatively disposed with relation to the winding and compensating rollers.

1,342,528. COTTON-HARVESTER. WILLIAM HARRISON CHANCELLOR, Strong, Ark. Filed Aug. 18, 1919. Serial No. 318,251. 3 Claims. (Cl. 56—12.)



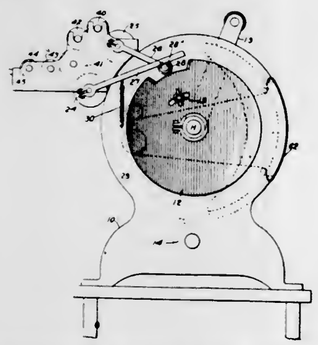
1. In a cotton harvester the combination with a vehicle, of a housing supported in front thereof and movable therewith, said housing having front, bottom and rear plant receiving openings in communication with each other, means for closing the bottom and rear openings after plants have passed therethrough, and cotton beaters in the housing and above the bottom closures.

1,342,529. SPRING APPLIER AND REMOVER. GEORGE J. CHARLAND, Sandpoint, Idaho. Filed Apr. 21, 1919. Serial No. 291,627. 4 Claims. (Cl. 29—87.1.)



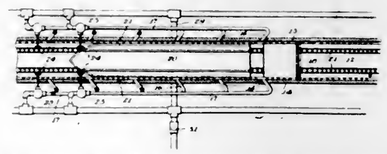
1. The combination with the pair of parallel levers, an intermediate fixed connecting bar, and links pivoted between said levers and the bar, of a transverse screw bar operable in the fixed bar having right and left hand threads in the levers, and clasping jaws on the levers.

1,342,530. DUPLICATING-MACHINE. HARRY COHN, Albany, N. Y. Filed Mar. 20, 1919. Serial No. 283,863. 2 Claims. (Cl. 101—175.)



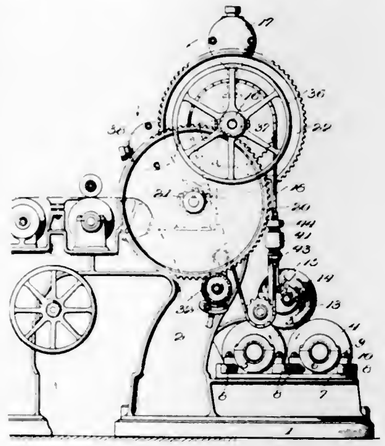
1. In a duplicating machine, a rotary member provided with means carrying separate printing means, one for the heading and one for the body of the instrument to be printed, the said rotary member having slots one above and one below the said body printing means, a platen coacting with the said rotary member, an inking ribbon extending through the said slots and over the printing face of the said body printing means, spools journaled in the drum and on which wind the ends of the said inking ribbon, inking rollers adapted to engage the face of the said heading printing means, levers to which said inking rollers are adjustably eccentrically pivoted, and a cam on the drum and controlling the said levers, the said cam being in adjustable sections to vary the movement of the lever according to the height of the said heading printing means.

1,342,531. TRANSPORTATION SYSTEM. JAMES CONLON, Pawtucket, R. I. Filed Oct. 30, 1918. Serial No. 260,328. 1 Claim. (Cl. 243—6.)



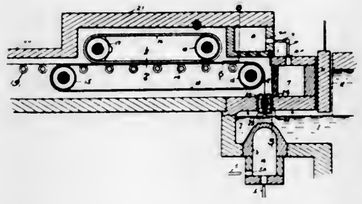
In a system of the class described, a tunnel-way, longitudinally arranged sets of rollers in the walls of the tunnel-way, a car having a nose and adapted to fit in and closely conform to the tunnel-way, one-way gates arranged as cut offs in the tunnel-way and adapted to be engaged and separated by the nose of the car, as it approaches the same, means tending to close the gates, and means for admitting motive fluid into the tunnel-way through the walls thereof at intervals, said means including ducts having their discharge ends arranged for admitting the motive fluid at an inclination to the direction of travel of the car, and control devices for the several ducts, each having operating stems projected into the tunnel-way and adapted to be opened by engagement of the nose of the car with the same and held opened while the car passes the same, whereby to admit the motive fluid and cause it to impact the rear of the car as the car passes the discharge ends of the ducts, substantially as shown and described.

1,342,532. DRUM WINDING-MACHINE. BENJAMIN DENVER COPPAGE, Wilmington, Del. Filed July 30, 1917. Serial No. 183,603. 9 Claims. (Cl. 242—66.)



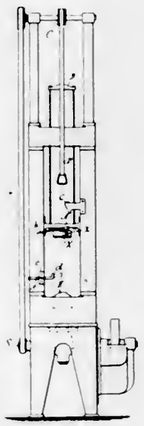
1. In a winding machine of the character described, a laterally displaceable shaft on which material is to be wound, and a plurality of gravity actuated means for assisting the displacement of said shaft, one of said means being designed to move away from a neutral position and another of said means moving toward a neutral position as the shaft of material enlarges.

1,342,533. APPARATUS FOR MAKING SHEET-GLASS. JOHN C. CROWLEY, Toledo, Ohio. Filed July 8, 1918. Serial No. 243,981. 5 Claims. (Cl. 49—17.)



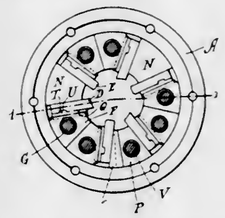
1. In an apparatus for drawing sheet glass, a receptacle for containing a prepared mass of molten glass, means, including an endless metal belt carrier and two draft chains for drawing a continuous sheet of glass from the mass of glass in said receptacle, said metal belt carrier being the means for bending the sheet, the means for supporting and carrying the sheet and the means for flattening the sheet, said metal belt carrier continuously contacting the sheet of glass from the moment that the sheet starts to bend until it is sufficiently flattened and set for the lehr, gripping chains for holding under tension a desired vertical length of the sheet's edge, for maintaining a predetermined width of the sheet drawn, and means for heating a lateral portion of the bottom of the receptacle beneath the sheet source.

1,342,534. STAYBOLT-MACHINE. JAMES A. EDEN, Jr., Springfield, Mass., assignor to Walter H. Foster, New York, N. Y. Filed Mar. 6, 1918. Serial No. 220,718. 4 Claims. (Cl. 10—100.)



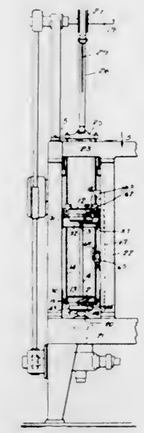
1. A machine for threading staybolts or the like comprising a carriage, a die carrying head mounted thereon and having a movable part which controls the opening of the dies and an adjustable stop adapted to strike said movable part at different points and thus to vary the rate of opening of the dies.

1,342,535. CUTTER-HEAD. JAMES A. EDEN, Jr., Springfield, Mass., assignor to Walter H. Foster, New York, N. Y. Filed Nov. 30, 1918. Serial No. 264,847. 12 Claims. (Cl. 82—35.)



2. A cutter head including in combination blades spaced apart in the head, a longitudinally movable wedging means acting on a side face of a blade and adapted by such movement to adjust said blade inwardly with a movement at an angle to its edge and means for pressing said adjusting means against said blade to clamp it in adjusted position.

1,342,536. MACHINE FOR MAKING STAYBOLTS AND THE LIKE. JAMES A. EDEN, Jr., Springfield, Mass., assignor to Walter H. Foster, New York, N. Y. Filed Mar. 12, 1919. Serial No. 282,247. 10 Claims. (Cl. 10—92.)



1. A staybolt machine comprising a pair of die-heads held at a fixed interval apart, one of said die-heads arranged to cut a part of its thread on one part of a blank before the other die-head engages the other part of the blank.

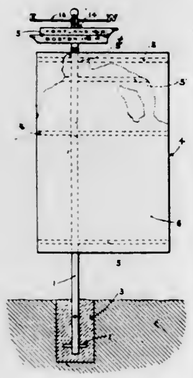
1,342,537. SHOE-POLISH BOX. HOWARD E. EVERETT, Grand Rapids, Mich. Filed Aug. 21, 1919. Serial No. 319,040. 2 Claims. (Cl. 15—46.)



1. In a device of the kind described, an open ended cylinder having one end screw threaded, a cap fitted to be screwed onto said end and having an angularly inclined partition in the cap, a spreading and polishing element se-

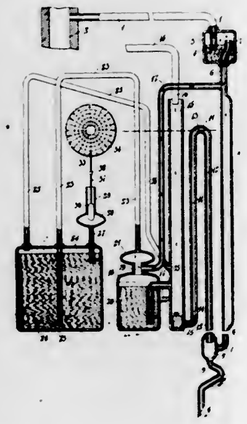
cured to the partition outside of the cap, said cap having an opening immediately at the inner surface of the partition through the longest side of the cap, means for forcing the blacking into the cap and out through the opening in the cap.

1,342,538. SIGNBOARD. FRANCIS W. GIBSON, West Roxbury, Mass. Filed Jan. 8, 1919. Serial No. 270,201. 7 Claims. (Cl. 40—39.)



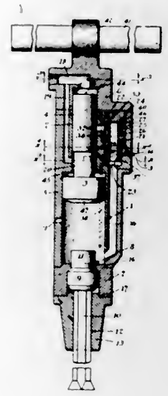
1. In a roadside sign board, a sign unit comprising a fixed vertical support, spaced horizontal frame members eccentrically mounted on said support and oscillatable thereabout as an axis, and oppositely arranged surfacing members vertically connecting said frame members and inclosing said support.

1,342,539. METHOD OF AND APPARATUS FOR ANALYZING GASES. CHARLES W. HEATH, Cincinnati, Ohio. Filed July 22, 1918. Serial No. 246,259. 28 Claims. (Cl. 23—3.)



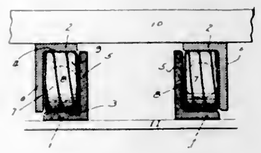
8. In gas-analysis apparatus, the combination of a main gas pipe-line, an intermittently operating gas ejector, means whereby said ejector causes an intermittent flow of a gaseous mixture through said main pipe-line, a gas-measuring vessel, and means for transferring, during the time of gas flow in said main pipe-line, successive charges of said gaseous mixture from said pipe-line to said vessel and measuring said charges to be delivered from said vessel for analysis.

1,342,540. FLUID-OPERATED TOOL. CHARLES A. HULTQUIST, Los Angeles, Calif. Filed Mar. 24, 1919. Serial No. 284,793. 5 Claims. (Cl. 121—28.)



5. A fluid operated drill having a cylinder forming a piston chamber and a valve chamber and having a port establishing communication between one end of the piston chamber and valve chamber and a duct establishing communication between the opposite end of the piston chamber and valve chamber, a piston in the piston chamber controlling the port, and a tubular valve in the valve chamber closing said port when in one position and functioning as a movable conduit to establish communication between the port and duct when moved to a reverse position.

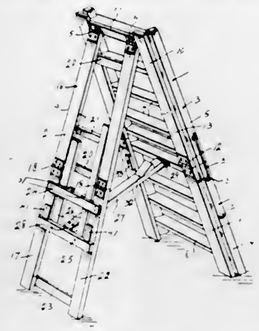
1,342,541. BEARING. FRED V. JOHNSON, Berkeley, Calif. Filed May 2, 1919. Serial No. 294,171. 7 Claims. (Cl. 64—38.)



6. A bearing comprising two pair of relatively movable members, annular rollers interposed between the surfaces of one pair, and balls interposed between the surfaces of said other pair, said balls being located in said annular rollers.

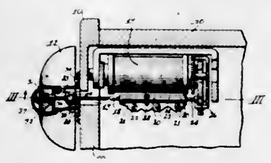
1,342,542. COMBINED EXTENSIBLE OR ADJUSTABLE AND FOLDABLE STEP-LADDER. JONAS JONSSON, Leonardville, Kans., assignor of one-third to Fred C. Miller and one-third to John A. Johnson, Leonardville, Kans. Filed Oct. 8, 1919. Serial No. 329,208. 6 Claims. (Cl. 228—29.)

1. In a foldable and extensible ladder, the combination with dominant ladder and brace sections hingedly united, each of said sections comprising hingedly united upper and lower parts, the hinged connections between said parts being axially aligned when the brace section is collapsed against the dominant ladder section, whereby the upper and lower parts of both sections may be hingedly separated to form a short ladder, a link brace connected to one of the parts of the dominant ladder section and having a sliding connection with the lower part of the brace section, to hold the brace section inclined in a bracing position from the dominant ladder section, when the ladder is extended and opened, said link brace having means to engage a member of the brace section, to hold



the lower part of the brace section collapsed against the lower part of the dominant ladder section, when the ladder is used as a stool ladder.

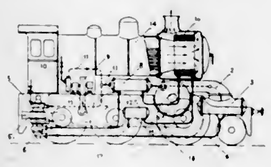
1,342,543. SOUND-REGULATOR FOR AUDIBLE SIGNALS. WILLIAM KLINE, Waynesboro, Va., assignor of one-half to William J. Moore, Washington, D. C. Filed Feb. 9, 1918. Serial No. 216,160. 8 Claims. (Cl. 116—33.)



1. A sound regulator for audible signals comprising a vibrating sound producing device, a combined pivotally and rotatably mounted stem provided with a hammer having a plurality of striking surfaces of different tone producing quality, means for varying the rotated position of the stem to bring any one of said surfaces of the hammer into striking engagement with the sound producing device.

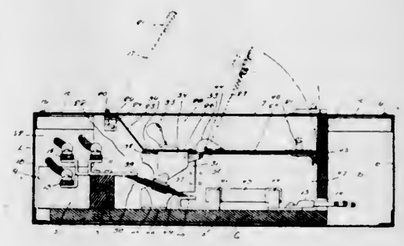
2. A sound regulator for audible signals comprising a vibrating sound producing device, a combined pivotally and rotatably mounted stem provided with a hammer having a plurality of striking surfaces of different tone producing quality, means at the end of the stem for turning the stem and hammer about its pivot and means adjacent said turning means for indicating the position of the hammer.

1,342,544. DEVICE FOR THE RECUPERATION OF AVAILABLE HEAT ON STEAM-LOCOMOTIVES PROVIDED WITH SURFACE CONDENSERS. CONRAD KOHLER, Zurich, Switzerland. Filed Sept. 25, 1919. Serial No. 326,338. 3 Claims. (Cl. 60—4.)



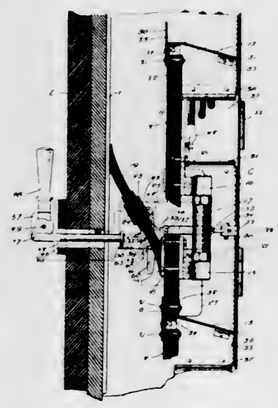
1. In a locomotive driven by a steam-power engine and provided with a surface condensing plant, which plant comprises auxiliary machines driven by steam-power engines and means for reconveying the condensed steam into the boiler of the locomotive, a device for heating the condensed steam that has to be conducted from the surface condenser back into the boiler, said device comprising a feed heater heated by the exhaust steam of said auxiliary machines, a feed heater heated by the combustion gases of the boiler, and means for conducting the condensed steam successively through said two feed heaters.

1,342,545. SAFETY PANEL-BOX. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed July 19, 1917. Serial No. 181,466. 48 Claims. (Cl. 247—10.)



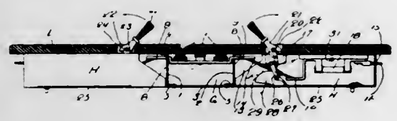
41. A panel box made up of a housing having a main cover, switch mechanism within the housing, an auxiliary cover for the switch mechanism beneath the main cover, a door comprised in the auxiliary cover for giving access to a portion of the switch mechanism, a door comprised in the main cover for giving access to the door of the auxiliary cover, and the main cover being removable for giving access to another portion of the switch mechanism.

1,342,546. MULTIPLE-UNIT SAFETY-SWITCHBOARD. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 2, 1917. Serial No. 184,011. 35 Claims. (Cl. 175—298.)



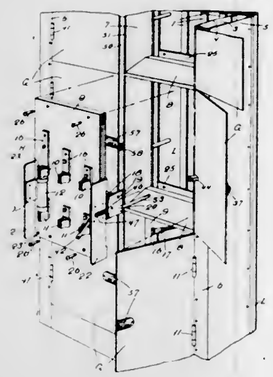
25. A switch board comprising a supporting member, means connected with the supporting member defining a plurality of independent casings at one side of the supporting member, a plurality of independently removable switch units one for each casing, each switch unit being of a character such that when in position within the casing it will divide the casing into two compartments containing different parts of the switch unit.

1,342,547. MULTIPLE-UNIT SAFETY-SWITCHBOARD. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 6, 1918. Serial No. 238,500. 12 Claims. (Cl. 175—298.)



11. A switch board comprising a face plate, a casing removably supported at the rear of said face plate, a switch within said casing, and said casing comprising as a part removable therewith an operating handle for said switch disposed to project through the face plate for manual operation from the front of the face plate.

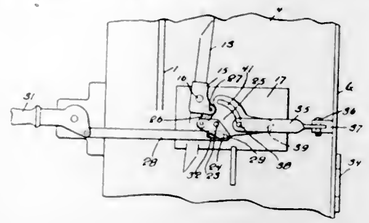
1,342,548. SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Aug. 2, 1917, Serial No. 184,011. Divided and this application filed Feb. 11, 1919. Serial No. 276,346. 6 Claims. (Cl. 175—369.)



5. A switch unit adapted for use as one element of a switch board structure, said switch unit comprising a board, fuse retaining parts supported by the board at one face thereof, switch blade supporting means extending from the opposite face of the board, a switch blade pivotally mounted upon said switch blade supporting means adapted to swing for performing its appointed function in the switch board structure, and operating means to swing said switch blade.

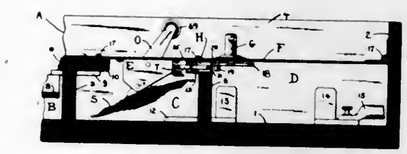
1,342,549. SWITCH MECHANISM WITH DOOR-INTERLOCK. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Aug. 2, 1917, Serial No. 184,011. Divided and this application filed Feb. 11, 1919. Serial No. 276,347. 10 Claims. (Cl. 200—50.)

9. A switch board comprising a supporting member, a movable switch blade supported thereby, means forming an inclosure for the switch blade including a guard door, operating means for operating the switch blade including a movable plate having a slot therein parts of which extend longitudinally in different angular directions, and means movable along said slot from one part thereof to



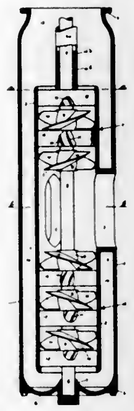
the other and extending into connection with the door adapted to prevent opening of the door except when the switch is "off".

1,342,550. SWITCH-LOCKING SAFETY-PANEL. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 18, 1916, Serial No. 79,095. Renewed Oct. 25, 1919. Serial No. 333,160. 27 Claims. (Cl. 200—50.)



11. A switch mechanism combining a casing having an opening thereinto, a switch blade, control means for the switch blade, a closure member for said opening, means operable to obstruct the operation of the switch mechanism, and an independently formed lock device for said closure member having a part arranged for operating said last mentioned means.

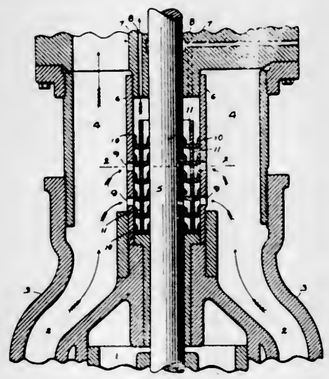
1,342,551. DEEP-WELL PROPELLER-SCREW PUMP. FERDINAND W. KROGH, San Francisco, Calif.; Carl A. Krogh and Oscar Poulsen administrators of said Ferdinand W. Krogh, deceased. Filed Oct. 18, 1916. Serial No. 126,409. 4 Claims. (Cl. 253—180.)



1. In combination with a screw pump: a casing having an outlet port; an inner casing having an intake port; a shaft mounted in said inner casing having securely fastened thereon a set of propeller screws of which one set of

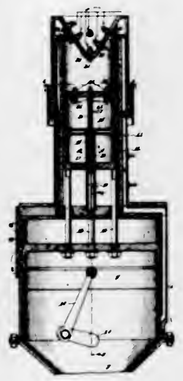
pressure faces is mounted on the reverse of the other in an inclined position; a continuation of said inner casing on the outside running parallel to said inner casing; a chamber covering the ends of said casing; and a valve covering the ends of said parallel pipe controlled by a lever arm attached to the main shaft.

1,342,552. CENTRIFUGAL PUMP. FERDINAND W. KROGH, deceased, San Francisco, Calif., by Carl A. Krogh, San Francisco, and Oscar Poulsen, Alameda, Calif., administrators. Filed Dec. 22, 1919. Serial No. 346,659. 5 Claims. (Cl. 253—199.)



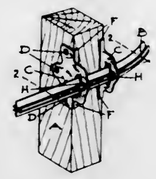
1. In a pump, in combination, a water impeller, a discharge for the pumped water, a shaft and bearings for driving the impeller, a tube surrounding said shaft and adapted to receive waste oil from the bearings thereof, perforations for admitting water to said tube and one or more valves adapted to permit the passage of said water to the tube and prevent the exudation of oil therefrom.

1,342,553. INTERNAL-COMBUSTION ENGINE. FREDERICK H. LEINWEBER, Chicago, Ill.; Curtis H. Leinweber, William H. Leinweber, and Victor H. Leinweber executors of said Frederick H. Leinweber, deceased. Filed Nov. 6, 1916. Serial No. 129,870. 6 Claims. (Cl. 123—148.)



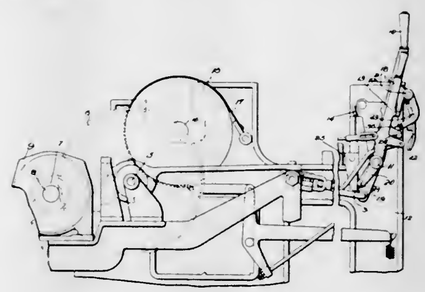
1. The combination with an internal combustion engine having a cylinder and a piston of an ignition system therefor arranged to ignite continuously a charge in the cylinder throughout the operative stroke thereof, and in different strata thereof, comprising one or more spark plugs mounted on said piston to move therewith, substantially as described.

1,342,554. DEVICE FOR BENDING METALLIC TRACK-RAILS. WILLIAM LOUDEN, Fairfield, Iowa. Filed Nov. 10, 1919. Serial No. 336,828. 6 Claims. (Cl. 153—32.)



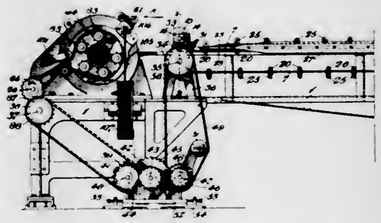
1. In a device for bending a track-rail having an angular cross-section, the combination with a pair of companion plates, comprising, attaching-portions adapted to be secured to the opposite sides or faces of a post and beyond such attaching-portions provided with extensions alining with the attaching-portions, said extensions having corresponding angular openings adapted to receive and substantially conform to the angularity of a rail-section to be bent.

1,342,555. STOPPING MECHANISM FOR LOOMS. HENRY LUSSIER, Salem, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 24, 1919. Serial No. 272,832. 6 Claims. (Cl. 139—51.)



1. A loom comprising protector mechanism including a frog at one side of the loom, a power controller at the opposite side of the loom, a starter rod extending across the loom and operative when rotated in one direction to move the power controller to running position, and means governed by or through movement of said frog acting to rotate said starter rod in the opposite direction and therethrough to operate the power controller to throw off the power.

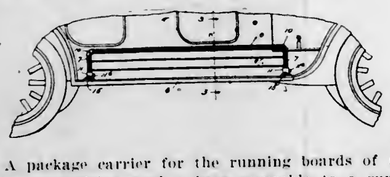
1,342,556. RUG-ROLLING MACHINE. WILLIAM H. LUTZ, Philadelphia, Pa. Filed July 17, 1917. Serial No. 181,172. 7 Claims. (Cl. 242—55.)



1. In a device of the character stated, a frame, a feeding mechanism mounted on said frame for delivering

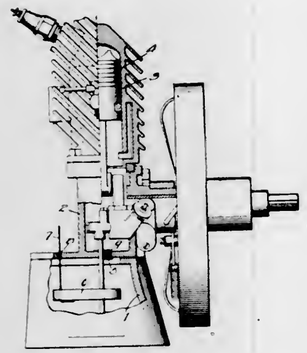
material to be rolled, driving means for said feeding mechanism, forming devices for automatically rolling the material into a package, and means for automatically releasing the feeding mechanism from the driving means under higher speed conditions than the speed of the driving means.

1,342,557. PACKAGE-CARRIER FOR AUTOMOBILES. EUGENE MCCOY, Staples, Minn. Filed Jan. 10, 1919. Serial No. 270,468. 5 Claims. (Cl. 224—29.)



1. A package carrier for the running boards of automobiles, comprising anchor bars securable to a running board transversely thereof, and an upright frame secured to said anchor bars and laterally adjustable while attached thereto in a direction longitudinally of said anchor bars, whereby the width of the carrying space in the applied carrier may be varied.

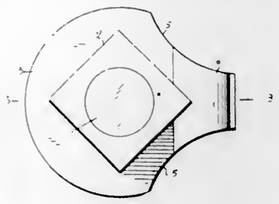
1,342,558. DEFLOODER FOR INTERNAL-COMBUSTION ENGINES. FRED L. MAYTAG, Newton, Iowa. Filed May 31, 1917. Serial No. 171,971. 4 Claims. (Cl. 123—73.)



1. In apparatus of the class described a crank case, a fuel reservoir beneath said case, the bottom of said crank case having a free unobstructed opening therethrough communicating with said reservoir, said opening being tapering with its small end at the top whereby any liquid collected in the crank case will be blown through the opening without excessive loss of pressure.

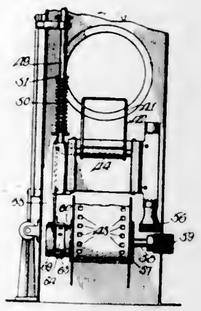
1,342,559. LOCK-WASHER. CLINTON A. MEDBERY, San Antonio, Tex. Filed June 23, 1919. Serial No. 306,063. 1 Claim. (Cl. 151—53.)

As a new article of manufacture, a lock washer constructed from a single piece of sheet metal comprising a body having a central opening through which a bolt is adapted to pass, whereby the body may be interposed between a nut and an element to be clamped, said body at a point adjacent the marginal edge of the opening being provided with a tongue extending radially of the opening and approximating the center thereof, said tongue having parallel opposite edges and terminating in a V-shaped extremity, the body adjacent to and alined with the opposite parallel edges of the tongue having parallel slits in planes offset on each side of the center of the opening, whereby the tongue may be bent upon itself at right angles to the body at a point outwardly offset from the edge of the opening, so as to prevent contact with the surface of a bolt when engaged through the opening, said body at points diagonally opposite the end of the tongue having enlarged cut away portions, said body also at a point diametrically opposite the end of the tongue having an additional broad tongue caused to be formed by said cut away portion, one face of said broad tongue at a point



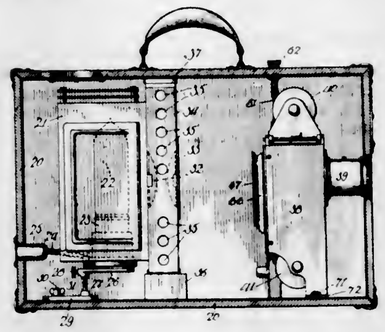
approximating the edge of the opening having a transversely extending groove of a gradual curved depth in cross section, the broad tongue lying normally at an obtuse angle to the body to permit a tool to be inserted between said tongue and the element to be clamped, whereby the broad tongue may be given a bend to contact with one of the flat faces of a nut, the normal obtuse angle of the broad tongue corresponding to the corner bevels of a nut, whereby the nut may be turned to its limit on a bolt.

1,342,560. STEREOPTICON. WILLIAM R. MENGEL, Chicago, Ill., assignor to Autopticon Company, Chicago, Ill. Filed May 31, 1917. Serial No. 171,874. 2 Claims. (Cl. 88—18.4.)



2. In an incased optical projection apparatus of the type described, the combination of a supporting frame, a film supply spool and a film take-up spool carried in vertically spaced relation on said frame, the film take-up spool having a carrying shaft, a ratchet disk having frictional operative association with said shaft, an apertured guide plate for a picture film carried by said frame, a reciprocating film feeding mechanism associated with said guide plate, means for effecting reciprocation of said feeding mechanism, the same comprising a vertically sliding shank fixedly connected at its lower end to said feeding mechanism, a spring adapted to move said shank in one direction, a revoluble shaft provided with an operating cam, a motor having driving connection with said shaft, a bell crank lever having one of its arms in operative engagement with said cam and the other of its arms operatively connected to the sliding shank aforesaid, a spring pawl associated with the ratchet disk aforesaid, and a link connecting said pawl with the reciprocating film feeding mechanism, substantially as set forth.

1,342,561. STEREOPTICON. WILLIAM R. MENGEL, Chicago, Ill. Filed Mar. 29, 1918, Serial No. 225,418. Renewed Nov. 13, 1919. Serial No. 337,867. 3 Claims. (Cl. 88—28.)



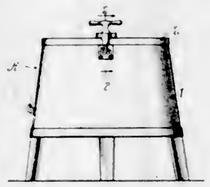
1. In a stereopticon, the combination of a main casing, a lamp house arranged at one end of said casing, a film feeding mechanism arranged at the other end of said casing, a rectangular shell arranged in said casing intermediate the lamp house and film feeding mechanism aforesaid and provided with a plurality of perforations in its vertical side walls, and condenser lenses mounted in the front and rear walls of said shell, substantially as set forth.

1,342,562. TIRE. AUGUST J. MEYER, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,752. 14 Claims. (Cl. 152—1.)



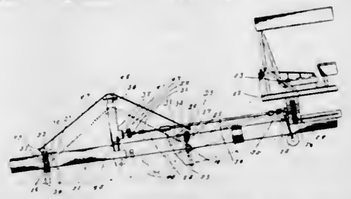
4. In combination, a tire of resilient material comprising a body portion and edge portions extending inwardly from said body portion, a supporting ring within the tire, and devices of smaller diameter than said ring for engaging said edge portions to draw said edge portions toward each other, whereby the material of the tire is stretched around said ring.

1,342,563. CLAMP. GLENN MORE, Jamestown, N. Y., assignor to Blackstone Manufacturing Company, Jamestown, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,106. 15 Claims. (Cl. 292—240.)



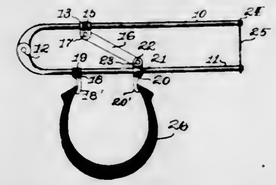
1. In a clamp, the combination of a part with a segmental tapered catch, a journal part, a filler block held in position by said journal part and a rotatable bolt extending through said journal part and having a hook adapted to engage the catch.

1,342,564. PIPE-BENDING MECHANISM. URBAN SHALER MORRIS, Tulsa, Okla. Filed Nov. 12, 1917. Serial No. 201,636. Renewed Nov. 12, 1919. Serial No. 337,630. 1 Claim. (Cl. 153—38.)



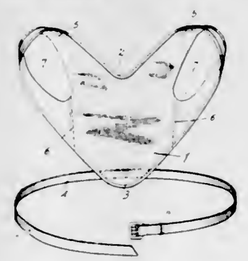
In pipe bending mechanism, a pipe connecting member comprising a split collar arranged to encircle a pipe, an adjustable disconnectible hinge bolt connecting one side of said collar, link connections connecting the opposite side of said collar and arranged to grip the two halves of said collar tight upon the pipe, a cable connecting lug on one half of said collar, and a toothed member rigid with said cable lug and the corresponding half of said collar and arranged with the teeth thereof facing the axis of said collar to prevent slippage of said collar on a pipe.

1,342,565. SPREADER FOR TIRE-CASINGS. ANDREW MIELOCH and ANTON A. MIELOCH, St. Paul, Minn. Filed Sept. 19, 1919. Serial No. 324,769. 3 Claims. (Cl. 152—27.)



1. A tire spreader comprising a pair of hinged levers, a pair of ears fixed upon one of said levers, a fixed head and a sliding head upon the companion lever, a spreader bar articulated at one end in said ears and at the other in said sliding head and a ring attached to the outer end of one of said levers and adapted to slip over the other.

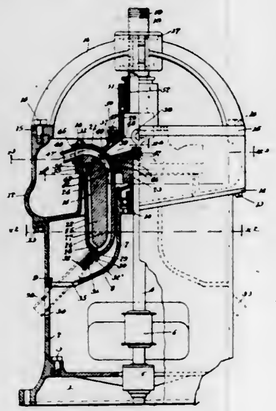
1,342,566. BODY-STABILIZER. CHARLES MUNTER, New York, N. Y. Filed Oct. 18, 1918. Serial No. 258,686. 2 Claims. (Cl. 2—93.)



2. A body stabilizer embodying a flexible, non-adjustable back member of substantially the same width as the back of the wearer and extending upwardly from the lumbar region to substantially the neck of the wearer, said back member being a substantial replica or contour of the subjacent skin of the wearer when the person occupies a correct, anatomical poise, and a pair of non-yieldable shoulder members, united to the upper portion of the back

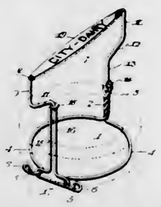
member, extending upwardly over the shoulders and thence downwardly under the arms of the wearer and being secured to the lateral edges of the back member, in combination with a belt securable to the back member, above the waist line of the wearer, the free ends of said belt extending downwardly and forwardly around the body of the wearer and being securable together at the front of the body at substantially the waist line thereof, whereby the back member of the garment is caused to be brought into close fitting engagement with all portions of the figure which it overlies.

1,342,567. AMALGAMATOR. SAMUEL G. MUSSER, Los Angeles, Calif. Filed July 19, 1917. Serial No. 181,475. Renewed Oct. 1, 1919. Serial No. 327,834. 3 Claims. (Cl. 83—67.)



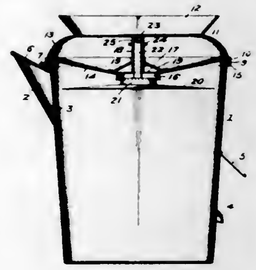
1. A centrifugal amalgamator comprising a sectional shell, one section being in the shape of an annular cup and the other section forming an annular partition spaced from the sides and bottom of the cup shaped section to form a restricted annular passage, the second named section having spaced webs and there being nozzle openings in the webs communicating at their inner ends with the annular passage and extending to the periphery of the second named section.

1,342,568. INDIVIDUAL BOTTLE-CARRIER. GUSTAVE C. PEARSON, Denver, Colo. Filed July 26, 1919. Serial No. 313,595. 2 Claims. (Cl. 215—1.)



1. An individual bottle carrier, comprising a resilient, divided ring, the free ends of which are hook shaped, the ring opposite the hooked ends being bent to form a hook and also an eye, a carrying grip having a member in hinged engagement with said eye, and a member comprising spaced parallel stems which terminate in a loop for receiving said hook-shaped ends, said grip, when in a non-carrying position, permitting the ring to be sprung over the rim of a bottle, by the sliding of one of said hooks in the space between the parallel stems, said hook, when the grip is swung to a carrying position, being slid into the loop, the loop acting to contract the ring and hold the same upon the bottle neck.

1,342,569. SANITARY NON-SPILLABLE MILK-BUCKET. PAUL WILLIAM PICK, Portland, Oreg. Filed Dec. 23, 1919. Serial No. 346,889. 3 Claims. (Cl. 31—14.)

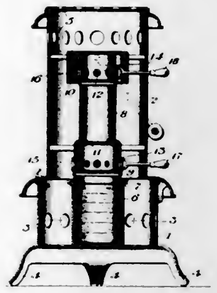


1. A cover for a milk bucket comprising an inclined or funnel shaped bottom wall, an overhanging portion surmounting said bottom wall, a valve seat at the center of the bottom wall, a valve stem guide carried by the cover, a valve having a stem slidable in the guide, and a removable collar connected to the stem and adapted to rest on the guide to hold the valve in suspended position.

2. A cover for a milk bucket comprising an inclined or funnel shaped bottom wall, an overhanging portion surmounting said bottom wall, a valve seat at the center of the bottom wall, a valve stem guide carried by the cover, a valve having a stem slidable in the guide, and a removable collar connected to the stem and adapted to rest on the guide to hold the valve in suspended position, said valve having an enlarged body adapted to receive the pressure of the milk for the purpose of closing the valve if the bucket is dropped or overturned.

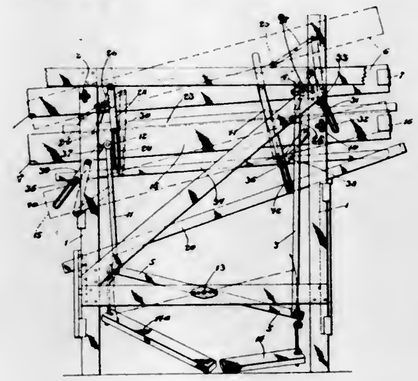
3. A milk bucket provided with a cover having a valve seat through which the milk may pass to the interior of the bucket, a guide carried by the cover, a valve stem slidable in said guide, a removable collar connected to said stem and adapted to rest on the guide, and a valve for said seat, said valve having a face of relatively great area located inside the bucket in position to receive the pressure of the milk when the bucket is dropped or tilted for the purpose of causing the valve to close.

1,342,570. HEATER. ISAAC C. POPPER and CHARLES H. BAYER, New York, N. Y. Filed July 15, 1918. Serial No. 244,979. 3 Claims. (Cl. 126—93.)



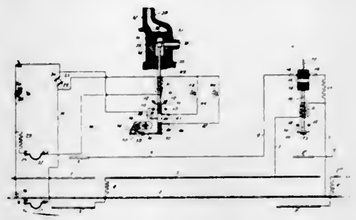
1. A heater made in two sections, a can to contain fuel located in the base section, and the top section having a chimney rigidly secured thereto, the lower edge of which fits down upon and holds the can of fuel in place in the base section when the top section is in its normal position.

1,342,571. MACHINE FOR ASSORTING FRUIT ACCORDING TO SIZE. EDGAR S. PORTER, Clifton, Colo. Filed Oct. 7, 1919. Serial No. 328,983. 21 Claims. (Cl. 130—32.)



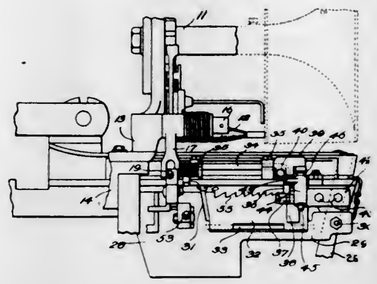
1. A device of the character described, comprising a tray through which the separated material may pass supported by stationary pivots near one end, a stirrer supported by the tray below the lower side thereof, mechanism for raising and lowering the end of the tray opposite from the end at which it is pivoted, and means for simultaneously operating said stirrer to cause movement of the contents of the tray.

1,342,572. TRAIN-CONTROLLING SYSTEM. BENJAMIN A. PRINCE and ELDRIDGE I. LA COUNT, Worcester, Mass., assignors to Orcutt Automatic Train Control Company, Worcester, Mass., a Corporation of Arizona. Filed May 28, 1917. Serial No. 171,469. 7 Claims. (Cl. 246—71.)



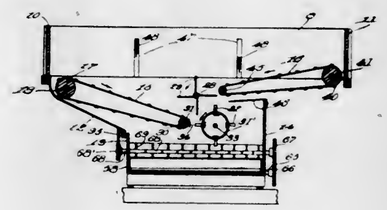
5. In a train controlling system, the combination with an electrically-continuous rail and a sectional rail, each section of which is electrically continuous but insulated from its contiguous sections, of a source of electrical energy carried by the train, a solenoid energized directly by said source, a casing mounted on the yoke of said solenoid and provided with a single valve seat communicating with a single passageway containing air under pressure, a valve carried by the plunger of said solenoid, said valve being arranged to rest on said seat when said solenoid is energized and thereby close said passageway, and means in the section ahead of that in which the train is running for directly controlling the action of said solenoid, whereby upon the deënergization of the latter said valve will be forced from its seat by the action of gravity and the pressure of the air in said passageway and will open said passageway directly to the atmosphere.

1,342,573. AUTOMATIC FILLING-REPLENISHING LOOM. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 24, 1918. Serial No. 268,140. 15 Claims. (Cl. 139—85.)



1. An automatic filling replenishing loom comprising means for ejecting a spent filling carrier from the lay, a lay longitudinally slotted for the passage of the ejected filling carrier, a guide chute carried by the lay beneath the lay slot and provided with a slot at its outer end, a picker stick reciprocating in the said slots, and means carried by the lay and governed by the means for ejecting the spent filling carrier acting to prevent the passage of the ejected filling carrier through the slot in the chute when the picker stick is at the outer end of its stroke.

1,342,574. FEED MECHANISM FOR THRESHING-MACHINES. JOHN N. SHANKS, Spokane, Wash., assignor to Inland Automatic Thrasher and Machinery Company, Limited, Post Falls, Idaho, a Corporation of Idaho. Filed May 31, 1916. Serial No. 101,855. 2 Claims. (Cl. 130—1.)

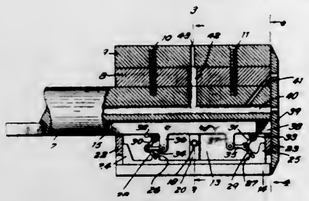


1. In a bundle feed mechanism for threshing machines, a threshing mechanism including an elongated narrow opening for feed therethrough to said mechanism, a hopper formed of downwardly sloping bundle feeding drapers having their terminals in delivering relation to said opening, the terminal of one draper being at an elevation above the terminal of the remaining draper, and a transfer picker means rotatable about an axis below the higher draper terminal for delivering or transferring grain delivery from the latter onto said lower terminal, substantially as described.

1,342,575. CAN-FORMING MANDREL. JESSE S. WENTWORTH, Norwood, Ohio. Filed Mar. 11, 1918. Serial No. 221,611. 5 Claims. (Cl. 93—59.)

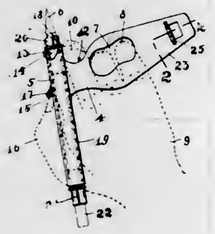
1. A can-forming mandrel consisting of a core, wings pivotally mounted on the core, a key reciprocally mounted

in the core, a wedge reciprocally mounted for movement between the wings, and a toggle joint between the key



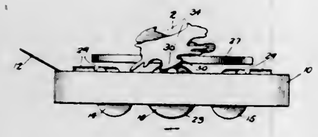
and wedge, adapted to effect wing-spreading movement of the wedge when the key is operated.

1,342,576. ATTACHMENT FOR PENHOLDERS AND PENCILS TO ASSIST IN THE PRACTICE OF PENMANSHIP. GEORGE T. WRIDE, Lethbridge, Alberta, Canada. Filed Jan. 16, 1920. Serial No. 351,842. 2 Claims. (Cl. 120—107.)



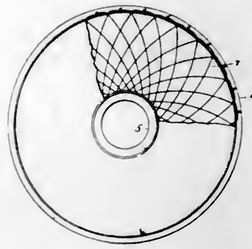
1. In a device of the class described, a body having means fitting in a hand in correct writing position and having catching means for engaging with the material on which the writing is produced whenever the hand is turned or moved into incorrect position.

1,342,577. TOY DEVICE. ISIDOR ZION, Ridgefield, N. J. Filed Aug. 18, 1919. Serial No. 318,114. 6 Claims. (Cl. 46—45.)



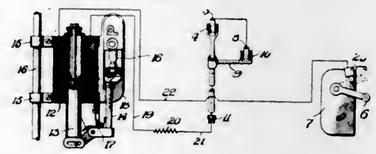
3. A toy device of the class described comprising a frame, a disk rotatably mounted in said frame, means for supporting said frame to permit of its movement over a floor surface, means for rotating said disk in the movement of said frame, a plurality of figure members, tensional means for supporting said members in connection with said disk, and a plurality of projecting members on said frame outwardly of the periphery of said disk and in connection with which said figure members are adapted to operate.

1,342,578. MIRROR AND METHOD OF BACKING THE SAME. CARL E. AKELEY, New York, N. Y. Filed Mar. 19, 1919. Serial No. 283,644. 5 Claims. (Cl. 88—1.) (Filed under the Act of Mar. 3, 1883, 22 Stat. L., 625.)



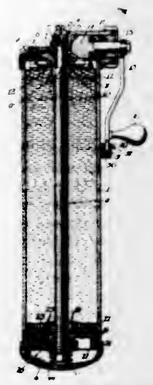
1. A mirror provided with a plurality of rigid supporting members that are secured thereto by means of a mesh extending between the supporting members and embedded in cementitious material.

1,342,579. TROLLEY-SIGNAL. JOSEPH BASIL and FRANK GIRARDI, Detroit, Mich. Filed Feb. 17, 1919. Serial No. 277,536. 3 Claims. (Cl. 177—352.)



3. The combination with a street car provided with a controller, a controller lever, and a means for collecting propulsion current from a power line, of an auxiliary source of current placed at intervals along the path of the street car, means on the car for collecting current from said auxiliary source of current, a switch operated by said controller, and a signal visible from the rear of the car and operatable by the auxiliary source of current when said switch is closed by said controller lever.

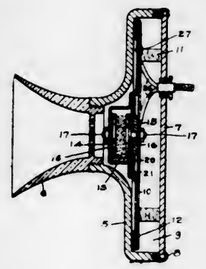
1,342,580. HAND-OPERATED FIRE-EXTINGUISHER. CHARLES L. BASTIAN, Chicago, Ill. Filed Jan. 8, 1916. Serial No. 70,971. 5 Claims. (Cl. 299—93.)



1. In a fire extinguisher, the combination of a casing adapted to contain a liquid, an outlet from said casing, means for ejecting the liquid from said casing including

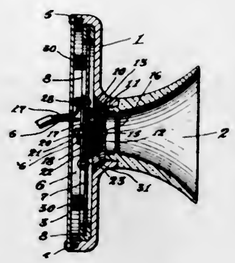
a longitudinally movable threaded rod and a plunger threadedly engaging said rod, means for rotating said rod, means on said rod to close said outlet, and means at the end of said casing opposite said outlet for engaging said plunger when at the limit of its travel in one direction, moving said rod longitudinally of its axis to close said outlet.

1,342,581. TELEPHONE-TRANSMITTER. WILLIAM BIRRELL and JAMES BIRRELL, Chicago, Ill., assignors to The Audible Telephone Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 18, 1917. Serial No. 187,033. Renewed Jan. 19, 1920. Serial No. 352,579. 9 Claims. (Cl. 179—122.)



1. The combination with a transmitter diaphragm having an electrode chamber provided with a shoulder depressed from the plane of said diaphragm, of devices for closing said chamber adapted to rest on said shoulder, said closure devices being held in place by clenching the metal of the diaphragm over the edges thereof.

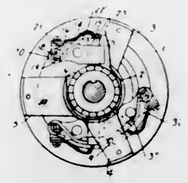
1,342,582. TELEPHONE-TRANSMITTER. WILLIAM BIRRELL and JAMES BIRRELL, Chicago, Ill., assignors to The Audible Telephone Company, a Corporation of Delaware. Filed June 27, 1916. Serial No. 106,093. Renewed Jan. 19, 1920. Serial No. 352,636. 7 Claims. (Cl. 179—122.)



1. A transmitter including a loosely housed diaphragm, and two parallel electrodes mounted relatively rigid upon said diaphragm.

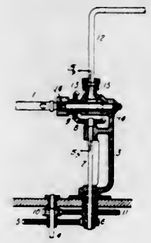
1,342,583. MOUNTING FOR DYNAMO-BRUSHES. HENRY E. BORGER, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Nov. 3, 1917. Serial No. 200,220. 7 Claims. (Cl. 171—324.)

2. In a mounting for dynamo brushes, the combination of an annular disk of insulating material adapted to be carried by a dynamo, a one piece brush holder having the following characteristics; a pocket for a brush, an ear



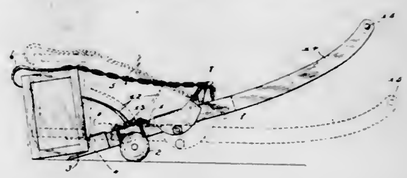
for attaching a brush conductor, a lug for supporting a brush tension member; with means for gulding and fastening the holder onto the disk.

1,342,584. ACOUSTIC SIGNALING METHOD. ANDERS BULL, Chicago, Ill. Filed Apr. 11, 1916. Serial No. 90,406. 11 Claims. (Cl. 116—22.)



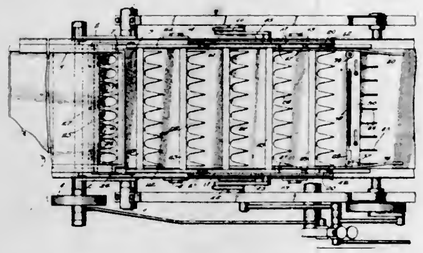
1. A device of the character described comprising, a sound producing mechanism fully exposed and suitably mounted to move bodily through space relative to its support, means for effecting said movement, and means for automatically actuating said mechanism causing it to emit sounds of a uniform character during its movement.

1,342,585. HAND-TRUCK. JOHN F. CALLAHAN, Scotia, N. Y.; Sarah De Wan Callahan administratrix of said John F. Callahan, deceased. Filed Jan. 12, 1918. Serial No. 211,493. 1 Claim. (Cl. 280—56.)



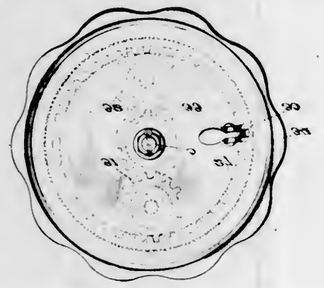
In a hand-truck and in combination, a wheel-suppoorted body having on its front end means for engaging and supporting the lower rear corner of a package; a member adapted to engage the upper front portion of said package having an adjustable connection with the truck-body; and means for supporting the rear side of said package at a point substantially above its lower rear corner with the package in substantially upright position and with the handle-portion of the truck-body in substantially horizontal position.

1,342,598. DEPOSITING-MACHINE. FERDINANDO G. SALERNO, Chicago, Ill. Filed May 21, 1917. Serial No. 169,928. 18 Claims. (Cl. 193—48.)



1. In a machine of the character described, a feeding frame arranged to reciprocate horizontally, a pair of overlapping plates mounted in said frame and each equipped with a plurality of fingers and arranged to reciprocate transversely of the frame, and means carried by said frame coöperating with a relatively fixed portion of the machine for automatically reciprocating said finger plates.

1,342,599. BRAKE MECHANISM. WILLIAM H. SAUVAGE, Flushing, N. Y. Filed Oct. 23, 1917. Serial No. 198,089. 4 Claims. (Cl. 74—119.)



1. In a hand brake mechanism, in combination, a brake staff having a pawl and ratchet holding mechanism, a hand wheel mounted on said staff provided with a central gear, a disk fixed upon said staff carrying planetary gears, a plate having an orbital gear with which said planetary gears are adapted to mesh, a stop adapted to coact therewith, and means for locking the hand wheel and orbital gear together.

1,342,600. TOOL-HOLDER. MELKER WILLARD SCHILLBERG, Stratford township, Fairfield county, Conn. Filed July 12, 1919. Serial No. 310,416. 3 Claims. (Cl. 29—99.)



1. A tool holder comprising a shank, a tool carrying body, and a member connecting the latter with said shank but separated therefrom by a gap terminating in a vertical plane substantially median of the body, said body having a seat for the cutting tool extending longitudinally therethrough and being provided transversely with axially offset recesses located approximately in the said plane, one of said recesses forming an intersection with said seat, combined with an eccentrically headed element adapted to be received in said recesses and capable of exerting a clamping action upon that part of the tool which passes said intersection.

1,342,601. CELLULOSE-ESTER COMPOSITION AND METHOD OF MAKING THE SAME. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 7, 1918. Serial No. 215,897. 16 Claims. (Cl. 106—40.)

1. A composition of matter comprising cellulose acetate and a chlor substitution product of naphthalene.

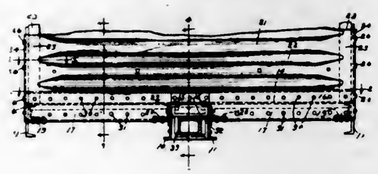
1,342,602. CELLULOSE-NITRATE COMPOSITION. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 7, 1918. Serial No. 215,899. 4 Claims. (Cl. 106—37.)

1. A deposited or flowed transparent flexible film comprising cellulose nitrate, camphor and an amount of chlor derivatives of the cyclic hydrocarbons $C_{2n}H_{n+3}$ and their homologues greater than half the amount of camphor.

1,342,603. CELLULOSE-ACETATE COMPOSITION. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 26, 1919. Serial No. 293,008. 9 Claims. (Cl. 106—40.)

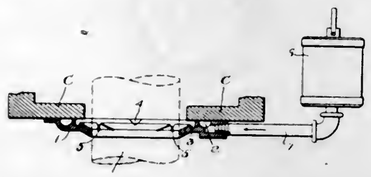
1. A composition of matter comprising cellulose acetate and ethyl propionate.

1,342,604. END CONSTRUCTION FOR RAILWAY-CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed May 10, 1916. Serial No. 96,584. 13 Claims. (Cl. 105—410.)



1. In combination with the draft sills and side sills of a railway car, of a metal end sheet formed with pressed, horizontally disposed strengthening corrugations and provided at its lower end with an angular member for attaching the end sheet to the underframing of the car, and a rigidifying member secured to the lower portion of said sheet, extending from side to side of the car and attached to said side and draft sills.

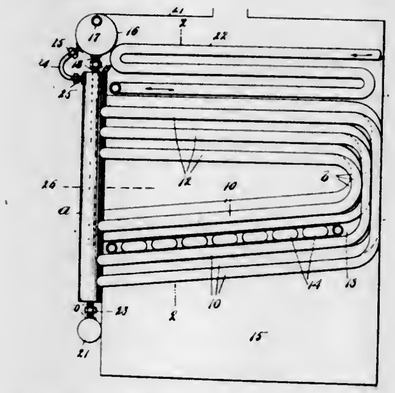
1,342,605. LUBRICATING APPARATUS. WALTER F. SOMES, Boston, Mass., assignor to William B. Merrill, Newton, Mass. Filed Oct. 17, 1917. Serial No. 197,066. 6 Claims. (Cl. 184—24.)



4. Apparatus for lubricating a vertically reciprocating rod or the like comprising means having a plurality of

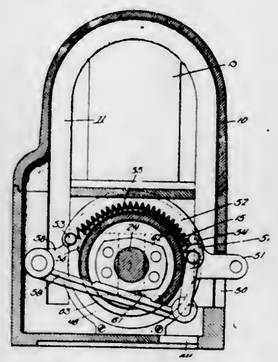
channels at least partially surrounding the rod, a set of ducts extending between the channels, and another set of ducts extending between one channel and the rod, each set of ducts being equidistantly distributed around the rod, and the latter set of ducts being angularly disposed around the rod with respect to the former set of ducts.

1,342,606. STEAM-BOILER. FREELAN O. STANLEY, Newton, Mass., assignor to Unit Railway Car Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 18, 1919. Serial No. 271,802. 5 Claims. (Cl. 142—476.)



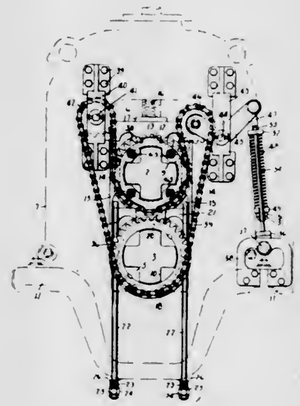
5. In a steam generator or boiler, in combination, a plurality of sections arranged side by side and comprising upright headers and a purality of substantially vertical rows of tubes connected with said headers and comprising upper and lower communicating tubes, a steam drum located above the level of the uppermost of said tubes and extended transversely with relation to said sections, pipe connections between said headers and said steam drum for the passage of steam from the headers into said steam drum, a water outlet pipe connecting said steam drum with one of said headers to return water from the steam drum to said headers, a superheater extended transversely with relation to said sections between predetermined tubes of said vertical rows, and a water drum detachably connected with the lower end of said headers.

1,342,607. IGNITION-MAGNETO. JOHN ROY STARK, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 26, 1919. Serial No. 292,783. 25 Claims. (Cl. 123—149.)



12. A magneto comprising in combination permanent magnets, pole pieces therefor, a sleeve providing pole faces for said pole pieces, an armature, means for moving said sleeve in a direction opposite that of armature rotation and spring means for restoring said sleeve to normal position after it has been so moved.

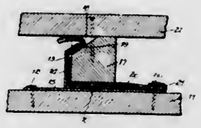
1,342,608. ROLLING-MILL. LAWRENCE C. STEELE, Pittsburgh, Pa. Filed Oct. 28, 1918. Serial No. 260,006. 15 Claims. (Cl. 80—54.)



1. A rolling mill comprising roll housings having a vertically adjustable roll in the window thereof and a roll balancing mechanism having flexible members looped around said roll engaging with and yieldingly supporting the same within the windows of the housings.

1,342,609. [WITHDRAWN.]

1,342,610. SOUND-INSULATING DEVICE FOR BUILDING CONSTRUCTIONS. HARRY B. WHEELER, Chicago, Ill. Filed Dec. 22, 1916. Serial No. 138,323. 5 Claims. (Cl. 20—6.)

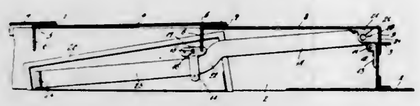


1. In a building construction the provision of a support, a nailing strip, a malleable metal nailing strip holder secured to the support and extending over the nailing strip to prevent movement of the strip away from the support, and a layer of insulating material between the nailing strip and the holder to insulate the strip from the support.

1,342,611. STORAGE-BATTERY SEPARATOR AND PROCESS OF PRODUCING SAME. THEODORE A. WILLARD, Cleveland, Ohio. Filed Oct. 5, 1917. Serial No. 194,870. 8 Claims. (Cl. 204—29.)

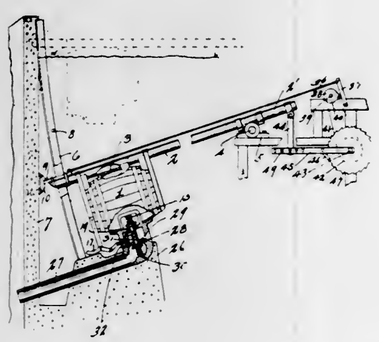
1. A storage battery separator having rib forming material sewed thereto.

1,342,612. HATCH-COVER. JOSEPH S. WOOD, Cleveland, Ohio. Filed Nov. 10, 1919. Serial No. 336,812. 5 Claims. (Cl. 114—203.)



1. In a hatch coaming and cover structure, a coaming, a sectional cover, means for supporting the removed stack of cover sections, and operative connections between said means and said cover whereby the former moves with the latter.

1,342,613. WATER-MOTOR. KYLE M. ANDERSON, Echo, Oreg. Filed July 14, 1919. Serial No. 310,570. 4 Claims. (Cl. 253—18.)



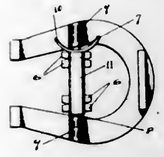
2. The combination with the pivoted lever and a buoyant tank thereon having a normally closed opening and adapted for submersion, means for admitting water to the tank for its submersion, automatic means for emptying the tank, and means for retaining the tank while it is being emptied, for the purpose described.

1,342,614. HARROW-HINGE. ROBERT A. ANDES, Maroa, Ill. Filed May 17, 1919. Serial No. 297,816. 4 Claims. (Cl. 55—84.)



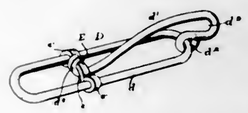
1. In a harrow hinge the combination of a sectional draft beam, a connection between the adjacent ends of the sections of said beam whereby the width of the harrow may be reduced, a movement limit permitting a comparatively small downward angular position of one section of the draft beam with relation to the other, and a movement limit permitting a comparatively large upward angular movement of one section of the draft beam with another.

1,342,615. HORSESHOE. RIKIZO ARIUCHI, Portland, Oreg. Filed Nov. 11, 1919. Serial No. 337,238. 3 Claims. (Cl. 168—31.)



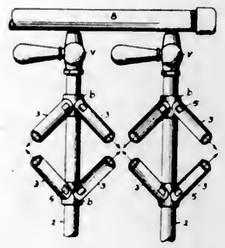
3. In a horseshoe, pivotally mounted prongs adapted to be normally out of contact with the ground, and means to cause contact of said prongs with the ground upon slippage of said horseshoe.

1,342,616. COUPLING FOR ANTISKID-CHAINS. PETER ARNOLTS, Odell, Ill. Filed Oct. 17, 1919. Serial No. 331,346. 1 Claim. (Cl. 24—68.)



A coupling and fastening device for antiskid chains, comprising a wire link, a wire lever having one end bent to form an eye to provide a hinge connection with one end of the link and formed with a loop at one end near the eye the sides of the arms of which are substantially parallel with each other and with the sides of the link when in locked position, said lever being provided at its outer end with a hook and a locking device for the lever comprising a cross piece with which the hooked end of the lever engages and which lies in the plane of the link and has eyes at opposite ends engaging the link.

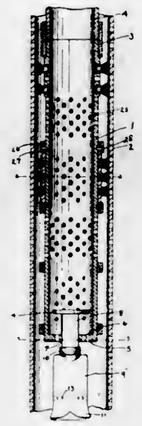
1,342,617. GAS-BURNER. WILLIAM J. BARBER, Cleveland, Ohio, assignor, by mesne assignments, to The Kline Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 7, 1919. Serial No. 309,250. 5 Claims. (Cl. 158—106.)



5. In gas burners, a gas supply pipe and two burner pipes parallel to each other supported on said supply pipe and provided with orifices spaced apart in the same line longitudinally, and combustion tubes seated over said orifices at an inward inclination between said burner pipes and inclined toward each other on each pipe, thereby conveying the discharge of all the said combustion tubes to a given center.

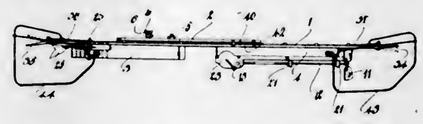
1,342,618. WELL-CLEANER. SAMUEL F. BASHARA, Houston, Tex. Filed Mar. 22, 1920. Serial No. 367,819. 8 Claims. (Cl. 166—18.)

1. A well cleaner comprising a section of pipe perforated at intervals, and having brushes removably secured thereto; said brushes including removable plates, bristles passed downwardly and backwardly through said plates



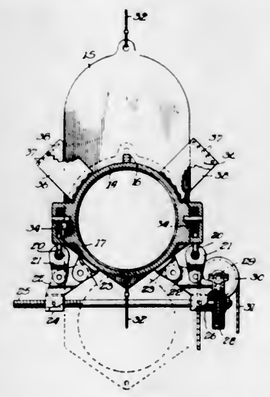
and held against removal by clamping said plates to said pipe.

1,342,619. SWIMMING APPLIANCE. GEORGE W. BECHTEL, Spokane, Wash. Filed Nov. 5, 1919. Serial No. 335,874. 4 Claims. (Cl. 9—18.)



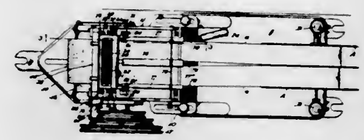
1. In a swimming appliance, the combination with manually operated propelling means, of a stern rudder for lateral steering including a fixed stem and transversely arranged tiller, means on the tiller for engagement by the feet of the swimmer, and hand operated bow and stern rudders for steering the appliance in vertical planes.

1,342,620. GAS-VALVE. GRANT D. BRADSHAW, Pittsburgh, Pa. Filed Apr. 28, 1919. Serial No. 293,258. 14 Claims. (Cl. 251—18.)



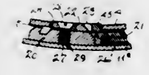
1. A valve comprising a perforated plate, and two substantially coaxial sleeves on opposite sides of said plate, and single means for forcing the adjacent ends of said sleeves longitudinally toward or away from each other.

1,342,621. MACHINE FOR CUTTING STRIPS OF CLOTH. HAROLD BROWN, Moline, Ill., assignor to Reynolds Engineering Company, Moline, Ill., a Corporation of Illinois. Filed July 15, 1919. Serial No. 310,973. 12 Claims. (Cl. 164—49.)



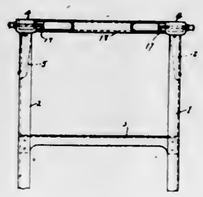
1. A machine for cutting pieces of predetermined length from a strip of material, comprising in combination, cutting mechanism, a feed member for the material, means for imparting a forward and backward movement to said feed member, a rocking frame mounted above said feed member, a roller rotatably mounted in said frame and adapted upon the forward movement of the feed member to coöperate therewith in moving the material, a stationary device located beneath one end portion of the said frame, and means for intermittently rocking said frame to cause said roller to be moved away from the material being operated upon and simultaneously clamp such material between said end portion of the frame and said stationary device.

1,342,622. VEHICLE-WHEEL. RICHARD S. BRYANT, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 9, 1915. Serial No. 54,957. 10 Claims. (Cl. 152—21.)



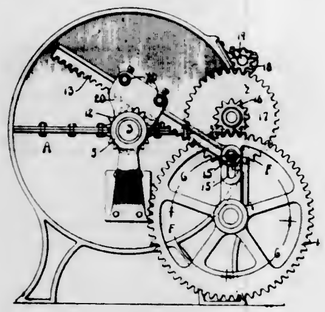
1. The combination with a transversely split tire-supporting rim; of a lug on one end of said rim; and another lug on the other end of said rim adapted to abut against said first-named lug and provided with a tongue adapted to over-lie the same, the abutting faces of said lugs being of complementary concave and convex form.

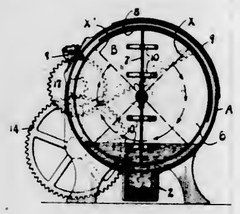
1,342,623. VEHICLE-FRAME BRACE. MARTIN E. CROW, Elkhart, Ind. Filed Aug. 15, 1919. Serial No. 317,684. 4 Claims. (Cl. 267—54.)



1. In a vehicle, the combination of a main frame having spaced longitudinal side members; a spring carrier mounted upon the forward end of each frame side member; a transverse member connecting said carrier members; and a complementary projection and socket connection between each end of said transverse member and one of said spring carriers.

1,342,624. WASHING-MACHINE. DAVID A. DWYER, London, England. Filed Aug. 28, 1916, Serial No. 117,238. Renewed Nov. 28, 1919. Serial No. 341,291. 2 Claims. (Cl. 141—12.)





1. In a washing machine, a liquid container, a rotatable carrier for the material to be washed, said carrier comprising a runway by which the material to be washed may be elevated and upon which the material may descend by gravity, and an obstruction comprising a row of loops extending from a side of said runway, said loops having their edges opposed to the line of travel of the material on said runway.

1,342,625. WIRE-STRETCHER. GEORGE R. FARRIS, Stanberry, Mo. Filed Nov. 10, 1919. Serial No. 336,996. 2 Claims. (Cl. 254—72.)



1. A wire stretcher comprising a rack bar having means at one end for connecting it with a support, a bifurcated lever, between the furcations of which the rack bar is slidably received, a pawl between the furcations of the lever at each side of the rack bar, a U bolt passed through the furcations and the pawls and on which the pawls are pivotally movable, means for holding the pawls yieldably in engagement with rack teeth of the bar at corresponding edges of the latter and means for connecting with the lever, a wire to be stretched.

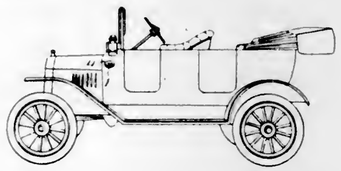
1,342,626. BELT-RACK FOR SUPPORTING ARTICLES. OTTO HENRY FRANK, Brooklyn, N. Y. Filed Oct. 16, 1918. Serial No. 258,422. 2 Claims. (Cl. 45—13.)

1. In a device of the character described the combination of a belt, means for tightening said belt around a tree trunk or the like, so as to temporarily support said belt thereupon, a base engaging said belt and provided with a pair of ears extending parallel to each other and each provided with a notch, each edge of said belt extending loosely into one of said notches so as to hold said base



upon the belt while enabling the base to slide relatively to the belt, and an arm carried by said base and extending therefrom in order to support an article.

1,342,627. AUTOMOBILE-IDENTIFICATION DEVICE. JOHN R. GREEN and JOHN HENDRIX FRITZ, Baxter Springs, Kans. Filed Feb. 13, 1919. Serial No. 276,726. 2 Claims. (Cl. 40—2.)



1. In an automobile identification device, the combination with a part of an automobile having an arbitrary distinguishing mark comprising a distinguishing character or characters, of a transparent identification tag attached to said part covering said mark and provided on its inner side with a mark corresponding to and registering with the first named mark.

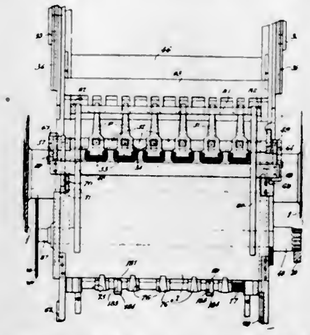
1,342,628. LOADING AND UNLOADING TRUCK. WILLIAM T. HOLLAWAY, Alliance, Ohio. Filed Sept. 27, 1919. Serial No. 326,963. 2 Claims. (Cl. 298—11.)



2. A loading and unloading truck, including a body, a platform, a pair of levers pivoted near each end of the body, links connecting each pair of levers to the platform, a shaft journaled through the body, a rotatable member upon the shaft, means for locking the rotatable member to the shaft, flexible members connecting one pair of levers with the shaft and flexible members connecting the other pair of levers with the rotatable member, and means for locking the rotatable member against rotation and for rotating the shaft independently thereof.

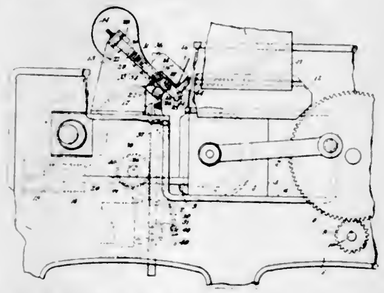
1,342,629. SHEET-FEEDING MECHANISM. EMERSON P. JENNINGS, Jr., Lehighton, Pa. Filed Mar. 30, 1916. Serial No. 87,725. 92 Claims. (Cl. 101—287.)

5. In a printing press, the combination, with a printing couple, one member of which is capable of bodily movement toward and away from the other member, of a separating device to engage the lowermost sheet of a pile of sheets and move one edge of said sheet away from said pile, a conveying device to engage the separated edge of said sheet and move the sheet from beneath said pile into a position between the members of said printing couple and there release the same, another device to engage said



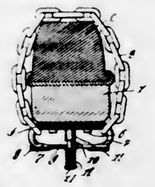
sheet and remove the same from between the members of said printing couple, and operative connections between said devices and movable member of said printing couple to cause said devices to operate in timed relation to the movement of said movable member.

1,342,630. SHEET-SEPARATING DEVICE. EMERSON P. JENNINGS, Jr., Lehighton, Pa. Original application filed Mar. 30, 1916, Serial No. 87,725. Divided and this application filed Oct. 27, 1916. Serial No. 127,993. 42 Claims. (Cl. 271—29.)



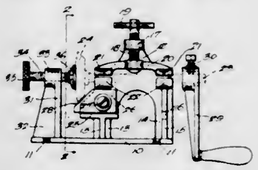
10. In a printing press comprising a printing couple one member of which is movable toward and away from the other, a separating device comprising a part adapted to grip the lowermost sheet of a pile of sheets and capable of both rotatory and bodily movement to move the edge of said sheet away from the pile of sheets, a reciprocatory cam-bar connected with said separating device, and means controlled by the movable member of said printing couple to impart reciprocatory movement to said cam-bar.

1,342,631. SKID-CHAIN FASTENER FOR MOTOR-VEHICLES. LOUIS D. JOHNSON and EDWARD J. BIEDENKOPF, Blue Island, Ill. Filed Jan. 3, 1919. Serial No. 269,416. 1 Claim. (Cl. 24—73.)



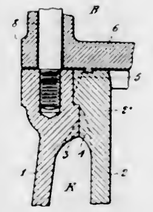
A skid chain fastener comprising a plate of a length to extend transversely of the wheel rim to which it is to be applied and adapted to lie flat against the inner face of the rim, said plate being provided at its ends with inturned hook-shaped rod-like extensions, said extensions emanating from said plate midway its width whereby shoulders are formed at the base of the hooks to provide chain abutments, a pin extending outwardly from said plate between said hooks and having a reduced extension in advance of the plane occupied by the ends of said hooks, said pin having a head on its free end, a bar slidable on said pin with longitudinally extending seats on the inner face of the ends thereof to receive the bills of said hooks, said seats operating to prevent the lateral displacement of the bar relatively to the hooks, and a coiled spring mounted on said pin outside said bar to exert its tension to hold the bar yieldably engaged with the hooks.

1,342,632. VALVE-TRUING DEVICE. OSCAR B. JONES and DAVID W. SPENCE, Columbus, Ohio. Filed Sept. 22, 1919. Serial No. 325,356. 1 Claim. (Cl. 82—1.)



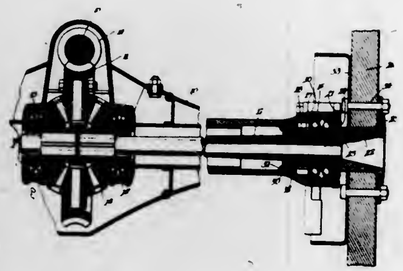
A device of the character described comprising a base, an inverted U frame the legs of which rise from the base and are provided at their upper portions with spaced and alined upwardly facing half bearings, one of said legs being provided with a horizontal ledge parallel with the base, and with a flat face above the ledge, a cutter secured to the flat face to rest on the ledge and having a cutting edge projecting laterally beyond one side of the frame, said frame having an upper central extension terminating in a horizontally projecting bearing piece, an adjusting screw threaded vertically through said bearing piece and having an upper handle, a bridge member swiveled at its center on the lower end of the adjusting screw and having downwardly facing half bearings at its opposite ends opposing the said half bearings of the frame, a bracket rising from the base in spaced relation to the cutter side of the said frame and having a bearing at its upper end alined with the said half bearings, and an adjusting screw threaded through said bracket bearing, having a handle at its outer end and having a swiveled valve engaging head at its inner end for the purpose described.

1,342,633. WATER-COOLED WORKING CYLINDER FOR INTERNAL-COMBUSTION ENGINES. FRANS AXEL LAGERSTEN, Nynäshamn, Sweden, assignor to Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Filed Apr. 15, 1919. Serial No. 290,354. 6 Claims. (Cl. 123—173.)



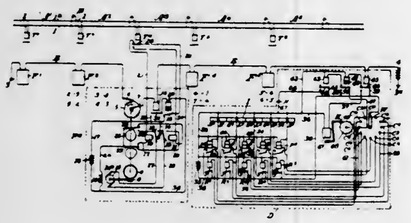
1. In internal combustion engine having water-cooled cylinders consisting of an inner shell, a water jacket and a cover, the provision of an annular cooling chamber inclosed between said shell, jacket and cover, and formed by chamfering the outer edge of the inner shell.

1,342,634. AXLE CONSTRUCTION. ARTHUR M. LAYCOCK, Kingston, Pa. Filed Dec. 21, 1916. Serial No. 138,227. 5 Claims. (Cl. 180—75.)



1. In axle construction, the combination of a tubular housing, a driven gear in said housing, a hollow shaft operatively connected with said gear and projecting from the end of said housing, said shaft having an integral flange at its outer end outside said housing, a bearing supporting the outer end of said shaft in the end of said housing and rigidly secured against axial movement relatively to the shaft, a retaining ring on the end of said housing for securing said bearing therein, wheel spokes on the projecting end of said shaft fitting against the inner side of said flange, and means for securing said wheel spokes to said flange.

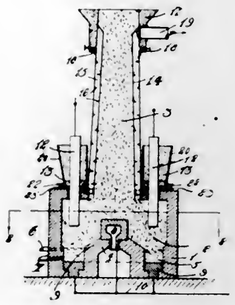
1,342,635. RAILWAY-TRAFFIC-INDICATING APPARATUS. LLOYD V. LEWIS, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1917. Serial No. 204,183. 13 Claims. (Cl. 246—124.)



3. In combination, a stretch of railway track divided into a plurality of sections, a central station having a plurality of indicators one for each section, a single normally closed line circuit extending along said stretch of track, a transmitter at each section for transmitting a distinctive code signal over said line circuit by interrupting the circuit, and a receiving device controlled by said line circuit for selecting one or another of the said indicators, depending on the code signal transmitted over the line circuit.

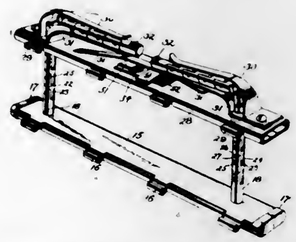
1,342,636. ELECTROMETALLURGICAL FURNACE. FRANÇOIS LOUVRIER, Paimboeuf, France. Filed Apr. 5, 1919. Serial No. 287,795. 5 Claims. (Cl. 204—64.)

1. An electro-metallurgical furnace comprising a reduction chamber, a feeding column leading thereto, an annular chamber surrounding said feeding column and leading to said reduction chamber, and means for supplying



coal dust upon shelves into said annular chamber substantially as and for the purpose specified.

1,342,637. LOOSE-LEAF DEVICE. JOHN L. MCMILLAN, Syracuse, N. Y. Filed May 31, 1916. Serial No. 100,843. 17 Claims. (Cl. 129—41.)



1. The combination with a binder including a post base and a follower, of a flexible binder post having a free end within the follower, and comprising a plurality of oblique-ended cylindrical body sections abutting in alined relation, each section having a rigid tongue of nearly the length of the body section entering a slot in the adjacent body section, and hinge pins passing substantially diametrically through each body section and the tongue of the adjacent body section; and post-guiding means on said follower for guiding the free end portion of said post.

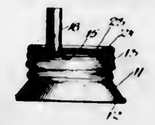
4. The combination of a flexible post comprising a plurality of rigid sections hinged together; a follower slidably mounted on said post and including a pair of post-confining members spaced apart a distance less than the length of a post section; and laterally acting post locking means mounted between said post-confining members.

1,342,638. PIGMENT-POWDER FOR MAKING SMEAR-PROOF IMPRESSIONS. SAMUEL M. MCMURRAY, Smyrna, Tenn. Filed Nov. 26, 1918. Serial No. 264,240. 3 Claims. (Cl. 134—35.)

3. The herein described composition of matter for rendering ink impressions resistant to the action of gasolene, and for intensifying said impressions, which consists of a mixture of one part of glucose and three parts of black oxid of manganese.

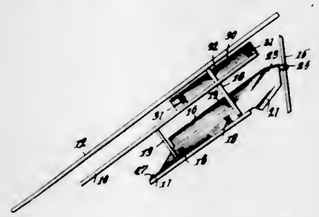
1,342,639. REVERSIBLE POURING-SPOUT FOR CANS. MOSES M. MARCUSE, New York, N. Y. Filed May 22, 1916. Serial No. 99,078. 12 Claims. (Cl. 221—24.)

1. A can comprising a nozzle having a cut-out or frangible seal at its bottom, and a top secured upon said nozzle and having an eccentric perforation therethrough and a depression for the seating of the lower end of the spout, an open top cap for said nozzle and a reversible



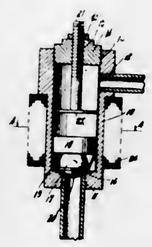
eccentric spout engageable with the top of said nozzle and with the cap when in reversed and operative position, said spout being movable into and out of registration with said perforation, substantially as specified.

1,342,640. CORN-BINDER ATTACHMENT. ADOLPH H. MEILICKE, Baring, Mo. Filed Apr. 4, 1919. Serial No. 287,392. 2 Claims. (Cl. 56—119.)



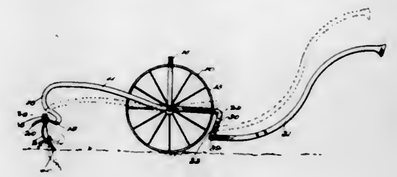
1. In combination with a corn binder including superposed gathering boards arranged in pairs, standards bracing said gathering boards, an attachment consisting of a plurality of trough members situated on said gathering boards, each trough member consisting of a pair of sections converging toward their lower portions, said sections having notches therein intermediate their ends for receiving said standards for steadying said trough members intermediate their ends, and strap members connected to said trough members and to said gathering boards for holding said trough members in position.

1,342,641. MAGNETIC VALVE. FRANK MORETON, Wilmington, Del. Filed Mar. 2, 1918, Serial No. 220,052. Renewed Jan. 29, 1920. Serial No. 354,880. 1 Claim. (Cl. 137—139.)



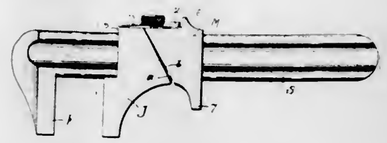
In a valve casing having a cylindrical bore and a valve seat in one end thereof, an annular core fitting the bore of the casing for movement therein, a spherical valve of nonmagnetic material, a connection between the core and the valve, a rod threadedly engaged in the valve casing, and having a spider at one end disposed in the bore of the casing and adapted to limit movement of the core, and a solenoid embracing the casing and adapted to actuate said core.

1,342,642. GARDEN-CULTIVATOR. HENRY W. MORGAN, Johnson City, N. Y. Filed Sept. 6, 1919. Serial No. 322,133. 10 Claims. (Cl. 97—42.)



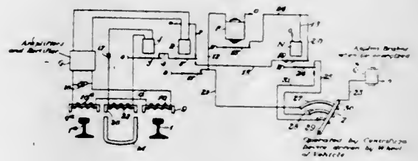
1. A cultivator including an axle, a pair of beams pivoted intermediate their ends to said axle, means to support said axle, ground-working devices carried by the rear ends of said beams, the forward end portions of said beams being extended downwardly and inwardly, and handles connected to the downwardly and inwardly extended forward end portions of said beams and being adjustable vertically of the same, whereby the position of said beams may be regulated for varying the penetrating depth of said ground-working devices.

1,342,643. WRENCH. FRANK M. MURRAY, Cadyville, N. Y. Filed Sept. 18, 1918. Serial No. 254,555. 4 Claims. (Cl. 81—152.)



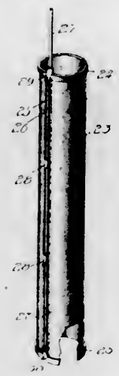
1. A wrench comprising a shank, a slidable jaw movable thereon, a holding member slidably mounted directly on the shank and coacting with the movable jaw, the opposed faces of the jaw and holding member being inclined in the same general direction but on different angles, said holding member having slight rocking movement independently of the shank, the inclined faces of the jaw and member converging, said inclined faces coacting one with the other when pressure is imposed upon the sliding jaw whereby the holding member holds said jaw against movement along the shank.

1,342,644. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. FRANK H. NICHOLSON, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 15, 1919. Serial No. 338,264. 21 Claims. (Cl. 246—63.)



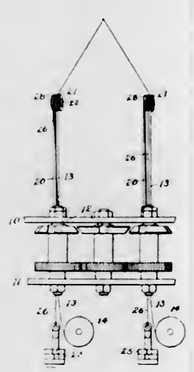
18. Railway traffic controlling apparatus comprising a track divided into blocks, means controlled by traffic conditions in advance for supplying vehicle governing current to the track rails of each block, magnets located in the trackway, and vehicle carried means arranged to give a restrictive indication on passing a trackway magnet in the absence of said current in the track rails but not if such current is present.

1,342,645. GROUNDING DEVICE. CHARLES WILLIAM PEN-DELL, Chicago, Ill., assignor to Paragon Electric Company, a Corporation of Illinois. Filed Jan. 9, 1918. Serial No. 211,089. 3 Claims. (Cl. 173—31.)



1. A grounding device for electric circuits comprising a relatively thick copper grounding wire and a grounding member of relatively thin sheet copper welded to said wire, thereby providing a connection which shall be free from deterioration by galvanic action when the device is in service buried in the ground.

1,342,646. RUBBER-CORE-TENSIONING MECHANISM FOR BRAIDING-MACHINES. FREDERIC W. PLUMB, Wyomissing, Pa., assignor to The Narrow Fabric Company, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1919. Serial No. 342,627. 3 Claims. (Cl. 28—4.)

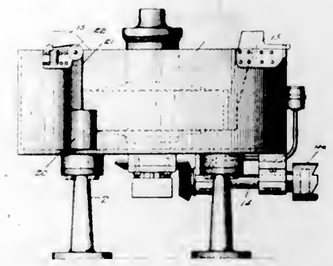


1. In a braiding machine, the combination with a series of race-circle posts having axial core-ways, of a corresponding series of core-carrying devices located above said posts, and core-feed controlling means comprising a series of individually weighted brake cords extending through the respective core-ways.

2. In a braiding machine, the combination with a series of race-circle posts having axial core-ways, of a corresponding series of core-carrying rollers independently mounted above said posts and each provided with a weighted brake-cord extending through one or another of said core-ways.

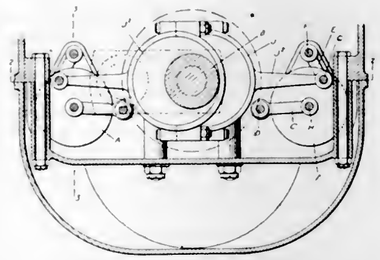
3. In a braiding machine, the combination with a series of race-circle posts having axial core-ways, of a corresponding series of core-carrying posts each provided with a freely rotatable core roller, and separate brake-cords for said rollers each extending through a core-way and having a braking-weight attached to the lower end thereof.

1,342,647. MACHINE FOR CUTTING AGATES AND SIMILAR STONES. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,428. 25 Claims. (Cl. 125—30.)



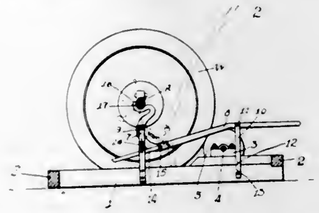
1. In a machine of the character described, a vessel adapted to contain an abrasive solution, a plurality of spaced rotatable cutting members mounted therein, a plurality of holders for the material to be cut extending within the vessel, and means for moving the holders toward the rotatable members to maintain engagement between the members and material as long as desired.

1,342,648. BALANCING OF RECIPROCATING ENGINES. HARRY RALPH RICARDO, London, England. Filed Dec. 30, 1919. Serial No. 348,460. 8 Claims. (Cl. 74—5.)



3. In mechanism for balancing the secondary forces in an internal combustion engine operating on the four-stroke cycle the combination of a balancing means, toggle mechanism, and eccentric mechanism actuated by the engine crank shaft and operating through the toggle mechanism to vibrate the balancing means twice in every revolution of the crank shaft as set forth.

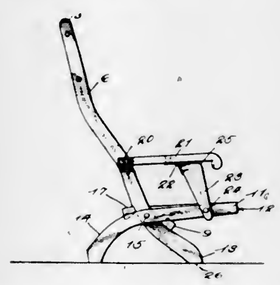
1,342,649. POWER-TRANSMISSION DEVICE. MELVILLE J. SALTZMAN, Alvada, Ohio. Filed Aug. 2, 1919. Serial No. 314,970. 2 Claims. (Cl. 74—106.)



1. A power transmitting device including a frame, opposed bearing members supported by the frame, a shaft

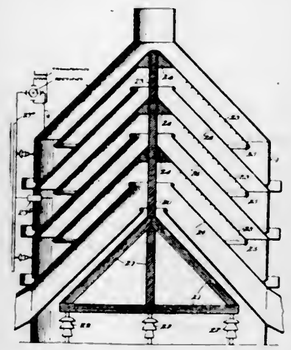
journaled in the bearings, a drive wheel secured to the shaft, a pulley secured to the shaft, an upright supported by the frame, a lever fulcrumed to the upright, said lever having a curved seat formed thereon, a supporting leg pivotally secured to the lever and means for automatically moving the supporting leg from its supporting position.

1,342,650. FOLDING CHAIR. MATHEW SCHLEGEL, Portland, Oreg. Filed Mar. 29, 1919. Serial No. 285,952. 1 Claim. (Cl. 155—142.)



A folding chair including pivotally connected back and seat sections having interfitting slats, said sections being provided with extensions constituting supporting legs, a transverse sill secured to the front of the back section at said supporting legs and having its upper longitudinal edge cut away to form spaced seating recesses at the opposite ends thereof, a transverse sill secured to the seat section at the rear of the pivotal connection between the seat and back sections and having its inner longitudinal edge cut away to form seating recesses spaced inwardly from the ends of said sill, arms pivotally connected with the back section, and links forming a pivotal connection between the arms and the seat section, the seats in the transverse sill of the back section being adapted to receive the seat section and the seats of the transverse sill of the seat section being adapted to receive the back section.

1,342,651. APPARATUS FOR THE ELECTRICAL TREATMENT OF GASES. HAROLD W. SQUIRES, Amityville, N. Y., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed June 22, 1918. Serial No. 241,430. 15 Claims. (Cl. 183—7.)



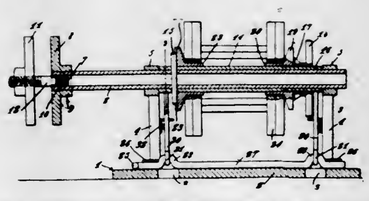
1. Apparatus for the electrical treatment of gases comprising a pair of sloping electrodes defining a passageway for the gas substantially annular in cross-section, and means for causing the gas to be treated to pass through said passageway.

1,342,652. FUSE. FRANK A. SULLIVAN and WILLIAM L. LUKENS, Bethlehem, Pa., assignors to Bethlehem Steel Company, South Bethlehem, Pa., a Corporation of Pennsylvania. Filed Jan. 11, 1917. Serial No. 141,876. 9 Claims. (Cl. 102—39.)



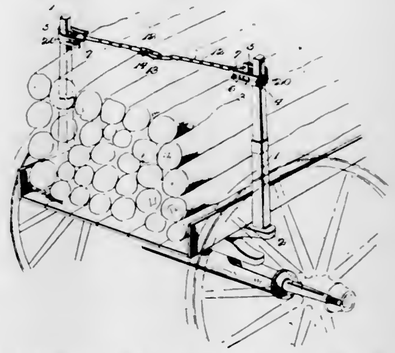
1. A sensitive impact fuse for a projectile comprising a primer, a fuse body adapted to be secured to the front of the projectile and formed with a cylindrical recess open at the front thereof, a part projecting at the front of the projectile having a sleeve slidably fitted in said recess, said part adapted to be actuated by the impact of the projectile to cause ignition of the primer, a spring within said sleeve acting to project said part, and a bolt adapted to be released by firing the projectile engaging the rear end of the sleeve for locking said part in said projected position.

1,342,653. SPOOL FOR OIL-WELL DERRICKS. NORMAN L. SYBERT, Kildare, Okla. Filed Mar. 22, 1918. Serial No. 223,993. 2 Claims. (Cl. 242—85.)



1. In a device of the class described, a support comprising standards; a shaft journaled in the standards; a sleeve on the shaft and coöperating at its ends with the standards to prevent the shaft from moving longitudinally; a spool carried by the sleeve; retainers adjustable longitudinally of the sleeve and engaging the ends of the spool; a key engaging the shaft, the sleeve and the spool to connect the same for rotation and to form an abutment for one end of the spool; and a nut threaded on the sleeve independently of the shaft and coacting with the other retainer.

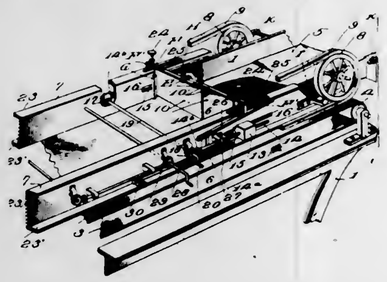
1,342,654. STAKE-HOLDER. CARL O. TORGERSON, Houston, Minn. Filed July 16, 1919. Serial No. 311,231. 2 Claims. (Cl. 280—179.)



2. A device for the purpose set forth comprising a flat stake-engaging loop having struck-in portions at its sides.

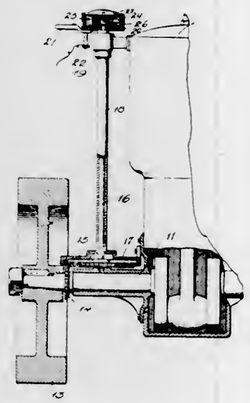
a spring extending between the sides of the loop and having its ends in engagement with said struck-in portions, a rod extending between the extremities of the loop and secured therein and provided centrally with a seat, and a locking member engaged in said seat.

1,342,655. PAPER-MAKING MACHINE. HARRY G. VAN ORNUM, Piercefield, N. Y. Filed Apr. 10, 1919. Serial No. 289,102. 6 Claims. (Cl. 92—44.)



1. In a paper making machine, the combination with the deckle frame thereof, of a slice adjustable vertically and horizontally with respect to the deckle frame, means for effecting the adjustment by a unitary action, and means for varying the relative degrees of the adjustments.

1,342,656. METHOD OF OPERATING INTERNAL-COMBUSTION ENGINES. DAVID L. WINTERS, Edgewater, Md. Filed Oct. 15, 1919. Serial No. 330,796. 4 Claims (Cl. 123—98.)



1. In the operation of an internal combustion two cycle engine, the method which consists in causing two or more charges to accumulate in the cylinder of said engine before permitting ignition thereof.

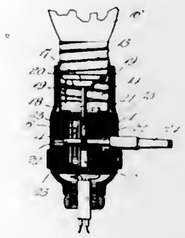
1,342,657. BOTTLE-STOPPER. GUIDO WOLFERMAN, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,640. 3 Claims. (Cl. 215—34.)

2. In a bottle closure, a band adapted for engaging around a bottle neck, the said band including a neck portion which extends vertically with respect to the band, the said neck portion terminating in an outwardly extended member disposed at right angles to the said neck and whose ends terminate in oppositely disposed resilient bearings, a weighted stopper carrier, the latter including an upwardly extended neck that merges with an outwardly projecting portion, said portion having oppositely disposed resilient ears and means for pivotally securing the said



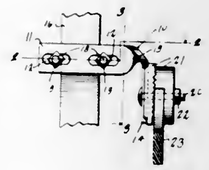
ears within the aforesaid resilient bearings, whereby to frictionally engage and hold the said weighted stopper at its uplifted or open position, the upwardly extended portion of the stopper carrier having an upturned heel member for the purposes specified.

1,342,658. ELECTRIC-LIGHT SOCKET. LOUIS E. WOOD, Farrell, Pa. Filed Dec. 27, 1918. Serial No. 268,499. 18 Claims. (Cl. 173—346.)



1. An electric light socket having a key-operated switch, and an ejector for lamp bulbs or other plugs, operable by the switch key.

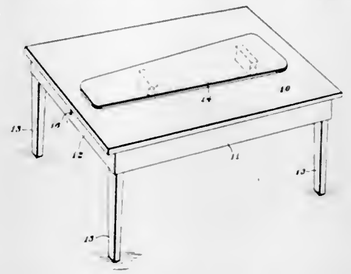
1,342,659. BRACKET. JOSEPH HANSEL WRIGHT, Henderson, Tex. Filed Oct. 10, 1919. Serial No. 329,799. 2 Claims. (Cl. 248—7.)



2. As a new article of manufacture, a bracket formed from a strip of elongated flat material and comprising a body, having its side edges upper and lowermost, and its surfaces extending vertically, thus providing a flat vertical bearing surface upon one side of said body, said body having a pair of spaced longitudinally extending alined slots therein, said body being twisted substantially 90° at one end and then being bent downdardly to form a depending leg, the side edges of said leg extending vertically to provide a flat outer bearing surface at right angles to the bearing surface of said body, and an opening formed in said leg.

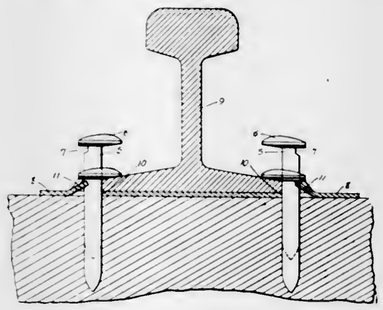
1,342,660. COMBINED TABLE AND IRONING-BOARD. WILLIAM W. ANDERSON, Chicago, Ill. Filed Oct. 18, 1919. Serial No. 331,640. 2 Claims. (Cl. 68—10.)

2. A table comprising side and end rails, legs extending from and supporting said rails, a top provided with an unbroken face on one side thereof and removably seated on said rails, and an ironing board secured to said top in spaced relation thereto to be positioned below said top and between said rails, when said top is seated with



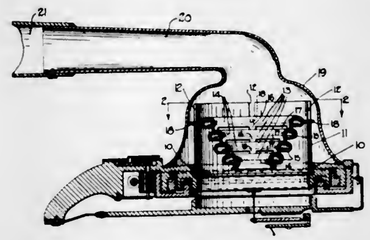
said unbroken face forming the upper side thereof, and positioned above when said top is seated with said unbroken face forming the under side thereof.

1,342,661. RAIL-SPIKE. JAMES H. BRUMFIELD, Armor, W. Va., assignor of one-half to Elmer C. Ferrell, Armor, W. Va. Filed Apr. 26, 1919. Serial No. 292,779. 2 Claims. (Cl. 238—294.)



1. The combination with a railway spike having a transverse recess therein, of a locking plate having an opening therein for receiving the spike, a bendable tongue disposed at one side of the opening adapted to be engaged by the head of the spike to force the tongue into the recess, said tongue extending upwardly and inwardly into the recess.

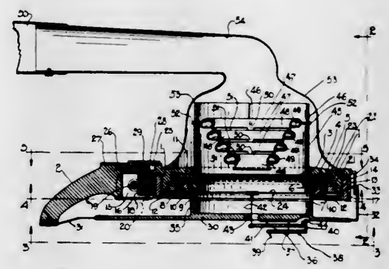
1,342,662. SOUND-MODIFYING MEANS. ERWIN CASSCA, Gloversville, N. Y. Filed Feb. 3, 1919. Serial No. 274,774. 1 Claim. (Cl. 274—27.)



A sound box having a diaphragm and a tone modifier removably carried by said box above the diaphragm, said modifier comprising a series of superposed sections of increasing diameter from the diaphragm, each section being connected

to the one below at determinate points to provide slotted openings between the sections, each section having an annular peripheral chamber, said chamber being open from beneath.

1,342,663. SOUND-BOX FOR PHONOGRAPHS OR THE LIKE. ERWIN CASSCA, San Francisco, Calif. Filed June 11, 1917. Serial No. 173,925. Renewed Apr. 12, 1920. Serial No. 373,385. 2 Claims. (Cl. 181—31.)



1. A sound box comprising a base, having a diaphragm opening, said base having inner and outer channels concentric with said opening, a diaphragm mounted on said base over the opening and channels therein, means for securing the edge of the diaphragm in the outermost channel, diaphragm adjusting means operating in the innermost channel, comprising a ring having threaded connection with the base and formed with a projection to engage the diaphragm in said innermost channel, said ring being provided with gear teeth, and a manually operative pinion mounted in the base and engaging said teeth to rotate the ring.

1,342,664. CONSTRUCTION OF BODIES OF MOTOR AND OTHER VEHICLES. FERNAND MAURICE CHARLES, Iver Heath, England. Filed Feb. 26, 1919. Serial No. 279,390. 6 Claims. (Cl. 204—1.)

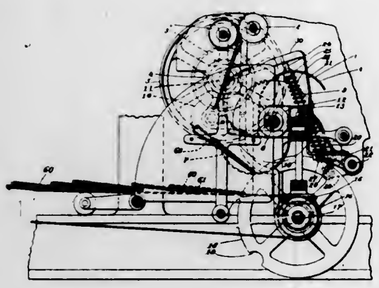


2. A process of manufacturing motor bodies and accessory parts therefor, which consists in forming a non-conductive pattern of the desired profile, grooving or recessing said pattern to receive framing bars, placing framing bars within the grooves formed in the pattern, rendering the surface of the pattern thus formed electroconductive, subjecting said pattern to the action of an electrolyte in the vat, passing an electric current through said vat, thereby depositing a layer of metal upon the pattern, removing said layer with the framing bars attached thereto, and reinforcing the said deposited metal layer.

1,342,665. COUNTER. STANLEY A. COMISKEY, Baltimore, Md., assignor to The Cutler-Hammer Mfg. Co., a Corporation. Filed July 16, 1919. Serial No. 311,243. 8 Claims. (Cl. 93—93.)

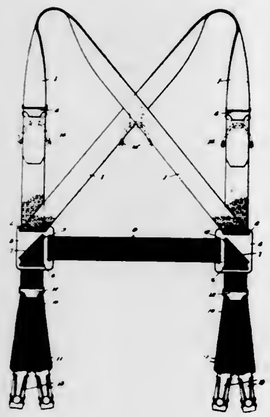
4. In a counting mechanism in combination a conveyer, a laying member, means for delivering the articles to the laying member in a uniform position, and means for actu-

ating the laying member to receive the articles and turn them and deliver them in uniform relation to said conveyer, a deflector, means for moving the deflector at intervals bearing a fixed relation to the speed of the laying member whereby articles selected at fixed and equal inter-



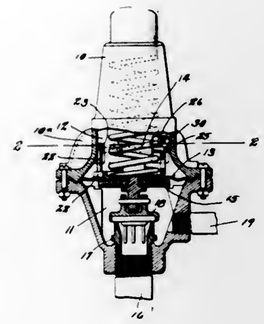
vals are deflected from the laying means and oppositely turned to those handled by the laying means and delivered to said conveyer in reversed position, and thus emphasized and made prominent to serve as an indicating means in counting the articles delivered.

1,342,666. HOSE-SUPPORTER. JOHN W. CROUCH, St. Louis, Mo. Filed Feb. 9, 1917. Serial No. 147,531. 2 Claims. (Cl. 241—4.)



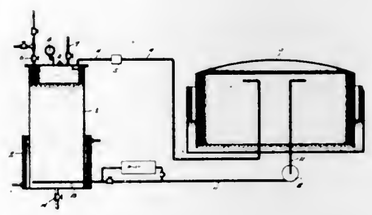
1. In a hose supporter for children, the combination of a pair of shoulder straps crossed to form arm loops, adjusting buckles for said shoulder straps, a slotted hip plate carried by each arm loop of the shoulder straps adapted to be positioned approximately over each hip joint of the wearer, a hip strap having threaded connection with said hip plates for retaining the hip plates in their adjusted position over the hip joints of the wearer, the free ends of said hip strap adapted to depend from said hip plates to form supporting straps, and hose gripping means adjustably carried by said supporting straps directly below the hip plates.

1,342,667. SAFETY DEVICE FOR RELIEF-VALVES. JOHN M. DOUGHERTY and HARRY C. TABLER, St. Louis, Mo. Filed June 6, 1919. Serial No. 302,208. 6 Claims. (Cl. 137—53.)



1. The combination with a pressure relief valve having a movable diaphragm, of a movably mounted member adapted to be actuated by abnormal movement of said diaphragm for puncturing the latter.

1,342,668. HYDROGEN-CIRCULATION PROCESS. CARLETON ELLIS, Montclair, N. J. Filed Oct. 14, 1916. Serial No. 125,635. 3 Claims. (Cl. 87—12.)

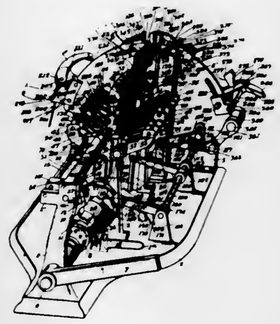


2. In the hydrogenation of organic material containing unsaturated bodies, the improvement which comprises passing a current of hydrogen-containing gas into and out of contact with the said organic material while in the presence of a catalyst, withdrawing the unabsorbed gas from contact with the said organic material, passing the gas so withdrawn to a bulk of gaseous medium, suitable for use as a hydrogenating gas, which bulk is materially greater than the volume of gas in contact with the said organic material, and allowing at least the greater part of such withdrawn gas to remain in contact with water for a length of time materially greater than the length of time that it is in contact with the said organic material, and then again passing the same into contact with said organic material.

1,342,669. MANTLE-SEWING MACHINE. HERBERT EMBREE, Hamilton, Ontario, Canada. Filed Sept. 10, 1917. Serial No. 190,649. 36 Claims. (Cl. 112—174.)

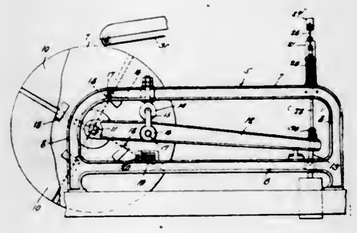
1. In a mantle sewing machine, a mantle support on which the mantle fits, a main shaft, an operating lever therefor, and means operated by the main shaft for engaging the lower edges of the mantle, and means also operated from the main shaft for engaging the mantle above such engaged portion and drawing it downwardly below the engaged portion to form an inturned hem.

33. In a mantle threading machine, the combination with the main shaft and standard plate having its upper edge concentric with the main shaft, an arm freely swung



upon the main shaft, cord gripping mechanism carried by the outer end of the arm, an operating lever carried by the shaft, and means carried by the shaft for alternately engaging the arm to swing it in opposite directions.

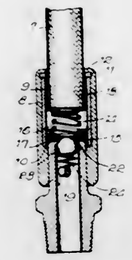
1,342,670. AUTOMATIC SCALE. GEORGE A. EVANS and JAMES E. ELLISON, Layton, Utah. Filed Sept. 11, 1919. Serial No. 323,071. 2 Claims. (Cl. 249—19.)



1. In a weighing scales, a frame, a horizontally disposed balance beam mounted thereon, a receptacle associated with one end of the balance beam, a dial casing mounted on the frame above the outer end of the balance beam, an indicating dial supported in the casing and an indicating hand associated with the dial and having one end weighted, operative connections between the weighted end and indicating hand, a lever supported on the casing and having a vertical movable operating rod connected with one end of the lever disposed in the path of movement of the balance beam to be raised, thereby to actuate the indicating hand, and expansible means normally urging the operating bar downwardly.

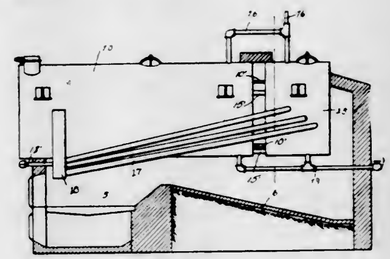
1,342,671. LUBRICATING APPARATUS. ANDREW FESLER, Detroit, Mich., assignor, by mesne assignments, to The Bassick Manufacturing Company, a Corporation of Delaware. Filed May 5, 1919. Serial No. 294,848. 6 Claims. (Cl. 285—177.)

4. A coupling comprising an outer sleeve, an inner sleeve rotatably mounted in said outer sleeve, means for preventing said inner sleeve from being longitudinally displaced from said outer sleeve, a conduit having one



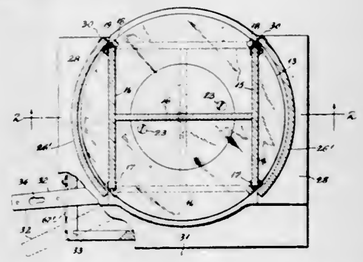
end secured to one end of said inner sleeve, and a gasket movably mounted in the other end of said inner sleeve.

1,342,672. BOILER. WILLIAM W. GILLETTE, Gloversville, N. Y. Filed July 19, 1919. Serial No. 311,986. 3 Claims. (Cl. 122—195.)



1. The combination with a tubulous boiler and a water head depending therefrom, of a drum supported beyond one end of and spaced from the boiler, said drum being tubulous, water pipes inclined upwardly from the water head to the drum, water and steam conducting tubes connecting the drum and boiler, said water conducting tubes being disposed between the drum and boiler, and baffles interposed between the boiler and drum to guide hot products of combustion from the tubes in the drum across the space between said drum and boiler to the tubes within the boiler.

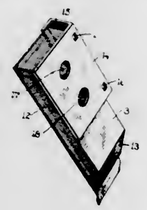
1,342,673. WICKET OR CLOSURE FOR WINDOWS. JOSEPH HECHT, Brooklyn, N. Y., assignor to Cash Safety Window Company, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1916. Serial No. 87,882. 15 Claims. (Cl. 133—13.)



1. A device of the class specified, comprising a wicket, a rotatable shaft upon which the wicket is mounted in

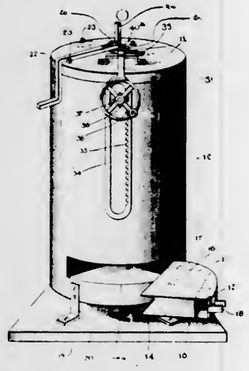
co-axial alinement therewith to rotate therewith, a pivoted lever to impart rotative movement to the shaft, a link to connect said lever to the shaft eccentrically to the axis of rotation of the shaft, and means carried by the shaft to limit the rotative movement thereof, substantially as and for the purpose specified.

1,342,674. SWITCH. CLARK T. HENDERSON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 25, 1916. Serial No. 93,408. 2 Claims. (Cl. 200—166.)



2. In a switch mechanism, in combination, a pair of coöperating contacts, one of said contacts comprising a laminated brush, a brush holder notched to receive the same, means associated with said brush for lubricating the contacting surface of the same whereby lubricant is also conveyed to said coöperating contact, and a bolt extending through said brush and associated lubricating means for clamping the said parts in operative relation upon said brush holder.

1,342,675. ICE-CREAM-DISPENSING DEVICE. WILLIAM LEWIS HIX, Nashville, Tenn. Filed Jan. 31, 1920. Serial No. 355,383. 9 Claims. (Cl. 107—8.)



1. A device of the character specified comprising a container for cream and a refrigerating casing in which the container is mounted to rotate, said container having a series of compartments extending vertically thereof and opening laterally at the bottom of the container, the refrigerating casing having a lateral opening with which said openings are adapted to register in succession as the cream container is rotated, means at the opening of the refrigerating casing and movable into and out of the compartments as they come into register with the said means for cutting off and removing a block of cream, means for intermittently rotating the cream container to bring the compartments in succession into register with the opening of the refrigerating casing, a follower in each compartment resting upon the cream, and means for engaging each follower when the compartment is in register with the opening of the refrigerating casing for depressing said follower to move the cream downward, the means for turning the container comprising a handle mounted to move circumferentially of the top of the refrigerating casing and having a pawl and ratchet connection with the container, the refrigerating casing having stops for limiting the movement of the said arm for the purpose specified.

1,342,676. METHOD OF MAKING NUT-BLANKS. ERNEST HOLLINGS, Cleveland, Ohio. Filed June 16, 1917. Serial No. 175,098. 2 Claims. (Cl. 10—86.)



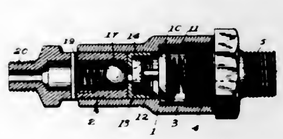
1. In a method of manufacturing nut blanks, the step of indenting at intervals a blank bar thickened at its edges to provide a longitudinal concavity on one side only, and shearing successive nut blanks from said bar.

1,342,677. HANDLE FOR SUITCASES AND THE LIKE. EDWARD C. HORSTMAN, St. Louis, Mo. Filed Oct. 2, 1916. Serial No. 123,219. 2 Claims. (Cl. 190—57.)



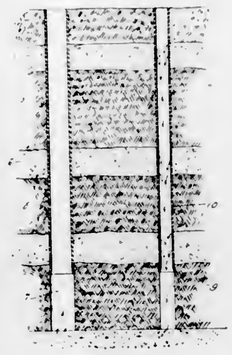
1. A handle comprising a grip portion, a pair of ears, a keeper spanning each ear, a reinforcing element passing through the grip portion of the handle and terminating in hooked ends, a filler surrounding the reinforcing element at the grip portion of the handle, said hooked ends being adapted to pass upwardly through said ears, and the upper fold of the hooked ends being adapted to pass under said keepers and be held in engagement with the upper face of said ears.

1,342,678. VALVED COUPLING FOR LUBRICATORS. HERBERT H. HOUGHTON, Filer, Idaho. Filed Jan. 17, 1920. Serial No. 351,984. 5 Claims. (Cl. 284—19.)



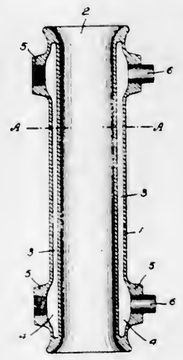
3. In a lubricator the combination of a lubricant receiving member provided with a check valve, a lubricant transferring connection adapted to receive a portion of the lubricant receiving member, a pressure retaining valve in the connection, means for normally holding said valve to its seat, and means coöperating with a portion of the lubricant receiving member and the valve for opening the valve in the connection, said means comprising in part a seal for the joint between the connection and the lubricant receiving member whereby lubricant will be transferred to the receiving member under pressure.

1,342,679. SYSTEM FOR COLLECTING WATER. DAVIS P. HOWELL, Modesto, Calif. Filed Feb. 17, 1920. Serial No. 359,319. 1 Claim. (Cl. 166—1.)



In a system for collecting water, a well through which the water is raised, and a well shaft adjacent thereto extending to the level of the first mentioned well, a casing in the second mentioned shaft having openings at different levels where water bearing strata occur.

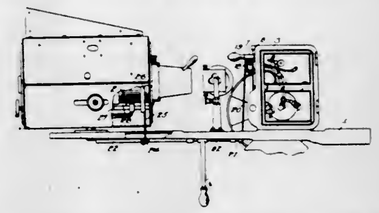
1,342,680. RADIATOR. CHARLES EDOUARD JEANNOTTE, Montreal, Quebec, Canada. Filed Jan. 16, 1919. Serial No. 271,544. 1 Claim. (Cl. 257—142.)



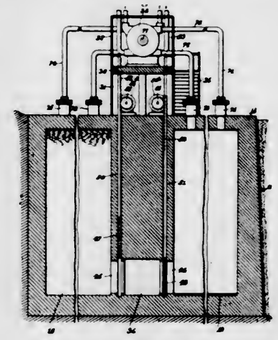
A radiator section comprising an external tube, an internal tube formed integral with the external tube, said tubes joining at the top and bottom and spaced from each other to form a narrow circumferential water jacket between them, the external tube having an annular enlargement adjacent each end of the water jacket to form an enlarged pocket at each end of the water jacket, and a boss at each side of each enlargement having openings therein to form inlets and outlets for the water.

1,342,681. MOTION-PICTURE MACHINE. CHARLES FRANCIS JENKINS, Washington, D. C., assignor to The Graphoscope Company, Washington, D. C., a Corporation of Delaware. Filed Oct. 17, 1916. Serial No. 126,067. 5 Claims. (Cl. 88—17.)

1. The combination with a casing having a film exposing opening, of an exterior source of light, a condensing lens arranged to direct a beam from said source through said opening and the film thereat, a member carrying a projecting lens and one element of a film guiding and pressing device and pivoted to swing toward and from the film, means for vertically adjusting said member, means for manually swinging said member, whatever its vertical adjustment, and automatic means for securely holding said member at either limit of its angular movement.

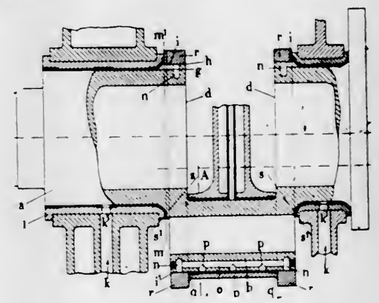


1,342,682. HYDRAULIC AIR-MOTOR. JOHN A. KNOWLTON, Dorchester, Mass., assignor to Universal Tide Power Co., Boston, Mass., an Organization of Massachusetts. Filed Aug. 16, 1919. Serial No. 318,063. 21 Claims. (Cl. 60—57.)



1. In a device of the class described, the combination with an open body of water in which the tide rises and falls, a basin connected by a narrow passage with said open body of water; a dam across said passage; a gate therein; a structure provided with a spillway and a reservoir closed at the top; an air motor; and means for admitting water into said reservoir and therein compressing air adapted to actuate said motor and then discharging said water into said spillway.

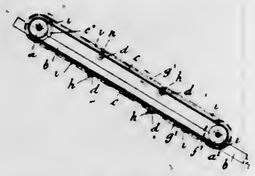
1,342,683. CRANK FOR LIGHT HIGH-SPEED ENGINES. EDOUARD LABITOTIÈRE, Bezons, France. Filed June 11, 1919. Serial No. 303,515. 7 Claims. (Cl. 74—38.)



1. In a crank shaft having crank pins and circular flanges, a closed oil groove in the flanges, an oblique opening in the flange leading to the groove, to discharge

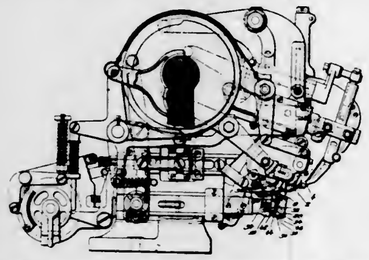
oil into the groove, a conduit in the crank-pin, and leading from the groove, and perforations in the conduit, to discharge the oil from the conduit.

1,342,684. SMOOTH-BAND CONVEYER OR ELEVATOR. JULES LOUIS LEMOINE, Paris, France. Filed Jan. 28, 1919. Serial No. 273,613. 2 Claims. (Cl. 193—2.)



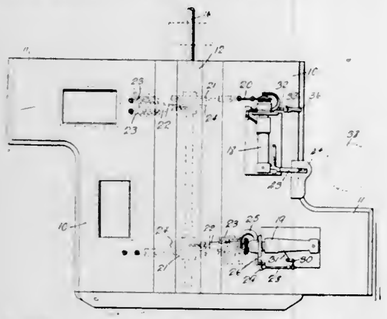
1. In a conveyer the combination with a smooth endless band, of drums for moving said band; axes on which said drums are mounted, sprockets mounted on said axes, endless chains engaged by said sprockets and forming lateral ramps for said endless band, and members for connecting said chains, the latter being so arranged as to permit direct loading of the material to be conveyed onto the said endless band.

1,342,685. SHOE-SEWING MACHINE. JOHN M. LEVANGIE, South Braintree, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 27, 1918. Serial No. 246,962. 7 Claims. (Cl. 112—39.)



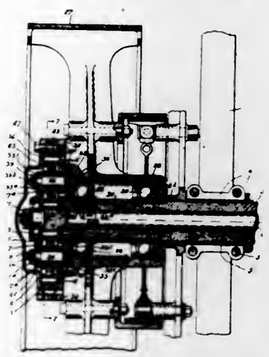
1. An inseam shoe sewing machine having, in combination, a back rest slide, a pad, and means for securing the pad to the forward end of the back rest slide, said means comprising a clamp and means for opening and closing the clamp.

1,342,686. SEWING-MACHINE SUPPORT. JOHN A. MCCRACKEN, Rahway, N. J. Filed Oct. 13, 1919. Serial No. 330,417. 7 Claims. (Cl. 45—27.)



1. A sewing machine support comprising a front table and a projecting side table, each table supporting a sewing machine, said sewing machine being positioned to feed sewed articles toward the outer edges of the table.

1,342,687. POWER-TRANSMITTING MECHANISM. LEO MELANOWSKI, Cleveland, Ohio, assignor to The Citizens Savings and Trust Company, operating trustee, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 21, 1916. Serial No. 115,927. 24 Claims. (Cl. 74—7.)



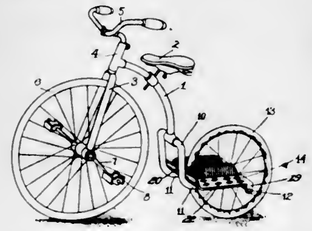
5. In power transmitting mechanism of the class described, the combination of a gearing housing having a reduced tubular section and two enlarged gear receiving sections, one arranged at either end of said tubular section, a driven shaft extending through said tubular section from one of said gear receiving sections to the other, reduction driving gearing for said driven shaft mounted in one of said enlarged sections, the other of said enlarged sections being rotatable with respect to said tubular section and constituting the hub portion of a traction wheel, anti-friction bearings interposed between said hub portion and said tubular section so as to place the load strains and stresses entirely on said tubular section, means removably secured to the outer end of said tubular section for preventing the outward movement of said hub and anti-friction bearings with respect to said tubular section, and reduction gearing disposed in said enlarged rotatable gear receiving section for transmitting power from the outer end of said driven shaft to said hub portion, the mounting of said rotatable section on said tubular section being substantially dust-proof and lubricant tight and permitting the flow of lubricant between said enlarged sections.

12. In power transmitting mechanism of the class described, the combination of a non-rotatable tubular axle section, a driven shaft extending therethrough, a traction wheel having a hub provided with a gear receiving casing, said hub being mounted upon the outer end of said tubular section to turn freely thereon, a gear carrying element rigidly and detachably secured to said tubular section, reduction gearing disposed within the gear casing in said hub and interposed between said hub, the gear carrying element and driven shaft therein, and including a driving pinion, an idler gear and an internal gear, said gear carrying element being removable by endwise displacement without disturbing the mounting of the adjacent wheel hub.

16. In traction mechanism, the combination of a traction wheel including two pieces, namely, one piece having a centrally dished plate, an integral flange at the margin of said plate, and spokes which are integral with said flange, and the other piece of the wheel being a plate which is oppositely dished, an internal ring gear which is fitted within said flange and is clamped between the two dished plates near their marginal edges, an axle tube which passes into a hole in the inner dished plate and into the central chamber between said dished plates, a gear cage fixed to said axle tube within said chamber, anti-friction bearings for supporting said traction wheel rotatably with respect to said axle tube and gear cage, an axle shaft which projects through said axle tube into said wheel chamber, a pinion fixed to said axle shaft within the gear cage, and an intermediate gear rotatably mounted upon said gear cage and in mesh with said pinion and internal ring gear.

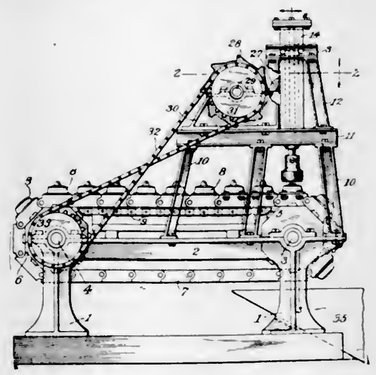
21. In power transmitting mechanism, the combination of a non-rotatable tubular axle section, a driven shaft extending through said tubular section and beyond the outer end of the latter, a traction wheel having a hub provided with a gear receiving casing, anti-friction bearings for the mounting of said hub thereon and disposed near the outer end of said tubular section, a gear cage disposed in said casing and rigidly secured to said tubular section nearer the outer end thereof than said anti-friction bearings thereon, and comprising inner and outer plates and stud shafts secured between said plates, idler gears each arranged on said stud shafts, a gear carried at the outer end of said driven shaft and meshing with the said idler gears, and an internal gear carried by said traction wheel and meshing with said idler gears.

1,342,688. BICYCLE. WALTER HELLER MILLWARD and JOHN ROSCOE MILLWARD, Newark, N. J. Filed Jan. 17, 1919. Serial No. 271,570. 8 Claims. (Cl. 208—113.)



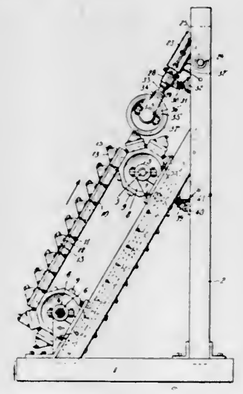
1. A bicycle comprising a frame, a front wheel suitably journaled in swivel arrangement therein and having propelling cranks connected therewith, said frame having its members rearwardly extending in substantially horizontal plane, a rear axle fitted to said forked members, a rear wheel journaled on said axle, elongated platform tread members associated with the rearward portion of the frame and extending longitudinally thereof and arranged on opposite sides of the rear wheel and provided on their inner side edges with substantially vertical guard flanges, and said tread members being supported at their rearward edges upon said axle and adapted to bear upon the frame members at their forward portions, substantially as described.

1,342,689. METHOD AND MACHINE FOR CRACKING NUTS. FREDERIC A. G. PAPE, New York, N. Y., assignor to Lyman N. Hine, New York, N. Y. Filed June 13, 1919. Serial No. 304,026. 9 Claims. (Cl. 146—3.)



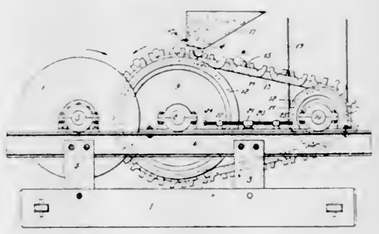
6. A machine for cracking cohune nuts and the like, comprising an endless chain carrying a series of anvils having nut-holding opening therein, means for moving said endless chain and for bringing the anvils successively under a cracking hammer, a cracking hammer arranged to deliver a cracking blow upon said nuts as they are successively brought thereunder, and means for giving to said hammer head a twist at the time of said cracking blow; substantially as described.

1,342,690. NUT-CRACKING MACHINE. FREDERIC A. G. PAPE, New York, N. Y., assignor to Lyman N. Hine, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,155. 12 Claims. (Cl. 146—3.)



1. In a nut cracker, means to hold a nut against twisting, means to subject the nut to both pressure and a shearing twist, the pressure exerted by one of said means on the other causing the shearing twist.

1,342,691. METHOD AND MACHINE FOR CRACKING NUTS. FREDERIC A. G. PAPE, New York, N. Y., assignor to Lyman N. Hine, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,878. 9 Claims. (Cl. 146—3.)

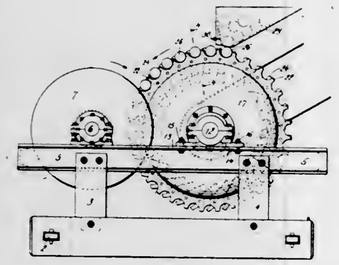


4. A nut cracking machine for cracking palm nuts and the like, comprising two crushing disks having openings therebetween of gradually decreasing width, a sprocket chain having nut gripping jaws adapted to open to receive the nuts and to close to grip the nuts firmly, means for feeding the nuts into such jaws while in an open position, and means for conveying the nuts while so gripped into the space between the crushing disks to subject them to increasing pressure until the cracking is effected.

1,342,692. NUT-CRACKING MACHINE. FREDERIC A. G. PAPE, New York, N. Y., assignor to Lyman N. Hine, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,879. 6 Claims. (Cl. 146—3.)

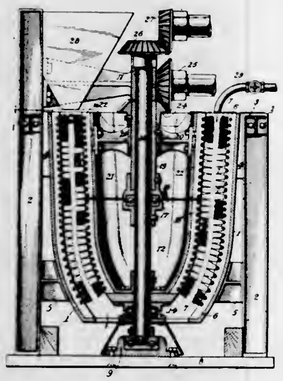
3. In a nut cracking machine having disks or surfaces with a space therebetween of gradually decreasing size,

a nut carrying wheel for carrying the nuts into said space for cracking them, said nut carrying wheel having re-



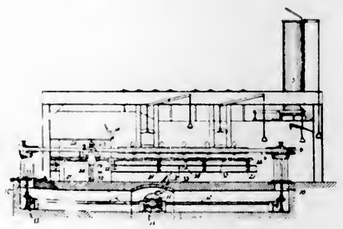
cesses in its outer periphery and nut gripping tumblers arranged to grip the nuts and hold them in said recesses while they are being cracked.

1,342,693. APPARATUS FOR REMOVING THE OUTER SHELLS OR HUSKS FROM PALM-NUTS. FREDERIC A. G. PAPE, New York, N. Y., assignor to Lyman N. Hine, New York, N. Y. Filed June 13, 1919, Serial No. 304,025. Renewed Apr. 15, 1920. Serial No. 374,203. 3 Claims. (Cl. 83—31.)



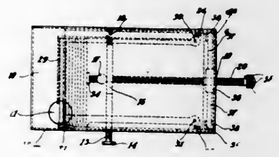
1. An apparatus for removing the outer shell or husk from cohune nuts and the like, comprising an outer series of brushes and an inner series of brushes, each providing a substantially continuous brushing surface, such brushes being vertically arranged and spaced apart a suitable distance for the passage of the nuts therebetween and one series of brushes being arranged to rotate with respect to the other, and means for supplying water to the space between said brushes, whereby the nuts and water are caused to progress downwardly between the said brushes and the nuts subjected to a combined rubbing, scraping and washing action, substantially as described.

1,342,694. PUDDLING IRON. THOMAS F. PAYNE, Pittsburgh, Pa. Filed Apr. 30, 1919. Serial No. 293,611. 7 Claims. (Cl. 263—23.)



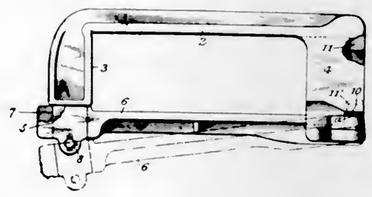
1. The method of puddling iron consisting in agitating the metal in the furnace on horizontal longitudinal parallel lines, thereby producing a combing or stratifying action.

1,342,695. MATCH-BOX. EFREM REVEGA, Detroit, Mich. Filed Nov. 6, 1919. Serial No. 336,063. 1 Claim. (Cl. 206—27.)



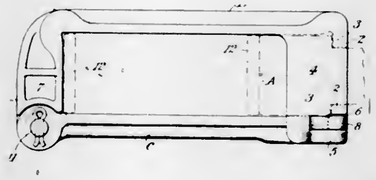
A match box comprising a hollow metal casing having an aperture in its cover wall and an opening in its lower wall, lateral guides disposed longitudinally in said casing, shallow pans disposed on said guides, said pans being adapted to hold a single row of matches disposed side by side thereon, abrading elements formed with said pans at one side thereof, receivers formed at the ends of said pans, said receivers being in register with the mentioned aperture, spring arms adapted to hold the matches on said pans, a screw disposed to operate longitudinally in said casing, said screw being adjustable vertically in said casing, and means carried by said screw adapted to contact with matches in any of said pans whereby they may be forced outwardly.

1,342,696. YOKE FOR RAILWAY-CARS. HUBERT L. SPENCE, Cleveland, Ohio, assignor to The National Malleable Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1917, Serial No. 187,510. Renewed Dec. 11, 1919. Serial No. 344,269. 4 Claims. (Cl. 213—42.)



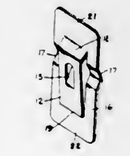
1. In a coupler yoke, an upper yoke arm having at its forward end a plurality of depending webs and at its rear end a depending vertical portion, a lower yoke arm having at its forward end an interlocking engagement with the webs, and apertured at its rear end to take about the lower end of the vertical portion to provide a pulling engagement therewith.

1,342,697. COUPLING-YOKE. HUBERT L. SPENCE, Cleveland, Ohio, assignor to The National Malleable Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 14, 1916, Serial No. 131,215. Renewed Feb. 7, 1920. Serial No. 357,012. 4 Claims. (Cl. 213—42.)



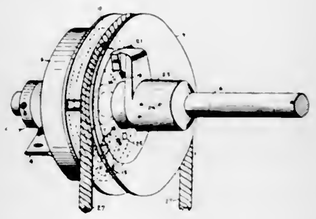
1. A coupler yoke having an upper and a lower member, each of said members being equipped with a coupler-engaging gib, webs on the upper member, the lower member at its forward end having outwardly-projecting flanges extending toward the rear and engaging the outer faces of the webs to prevent spreading thereof, said lower member being also supported from below by said webs.

1,342,698. CLIP OR CLASP. WILLIAM H. STEVENS, New York, N. Y. Filed Sept. 26, 1918. Serial No. 255,783. 2 Claims. (Cl. 24—259.)



1. A device of the kind described made of flat resilient material and comprising a frame with side pieces and end pieces in a common plane and surrounding an integral tongue, said tongue having a bend near its root upwardly away from the frame and having its free end resting on the adjacent end piece of the frame, and the side pieces of the frame having also angle bends out of the general plane of the frame.

1,342,699. AUTOMATIC BRAKE. ALBIN SWENSON, New York, N. Y. Filed Aug. 23, 1918. Serial No. 251,051. 1 Claim. (Cl. 57—116.)



In a mechanism of the class described, a pulley and a fixed casing substantially parallel therewith, a band brake within said fixed casing and a lever pivoted to said pulley within said band brake, a projection secured upon said shaft extending through said pulley adapted to engage one end of said lever, the other end of said lever being adapted to operate between the free ends of said band brake.

1,342,700. TOY GUN. JAMES A. TALBOT, Walla Walla, Wash., assignor to Edna E. Talbot, Walla Walla, Wash. Filed Mar. 22, 1920. Serial No. 367,725. 4 Claims. (Cl. 124—14.)

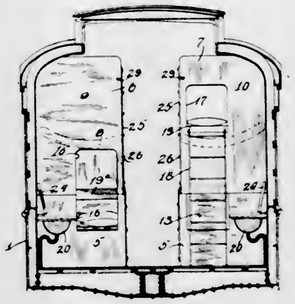


1. In a toy gun, a stock having a grip and a magazine, a pivotally mounted guard plate positioned about said stock in a manner to maintain a rubber band out of frictional contact with said stock, shoulders on the lower side of said guard plate, a trigger having a cam face and complemental shoulders to engage the shoulders of said guard plate, and pivotally mounted on said stock, and the front end of said stock formed to engage a rubber band and of bayonet shape.

1,342,701. PROCESS FOR PRODUCING STEEL. ALBERT VÖGLER, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 24, 1914. Serial No 814,194. 3 Claims. (Cl. 75—46.)

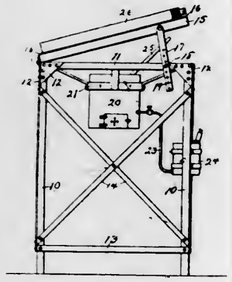
1. The process of producing steel in a basic open-hearth furnace from iron rich in silicon by the pig iron and ore process, which consists in first forming an acid slag containing practically all the silicon and only traces of phosphoric acid, drawing off this acid slag, and then forming within the same furnace and with the metal remaining therein a basic slag rich in citrate-soluble phosphates, drawing off this slag and finally refining the steel.

1,342,702. SLEEPING-CAR. HARRISON D. WILSON, Chicago, Ill. Filed Dec. 15, 1917. Serial No. 207,234. 5 Claims. (Cl. 105—315.)



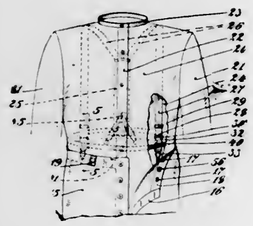
1. In a device of the class described, the combination of a collapsible seat section, removable means for converting the seat section into a sleeper section having an upper and a lower berth, and an auxiliary compartment at each end of the said seat section and removable partitions intermediate of the said seat sections and the said auxiliary compartment, removable panels in the backs of said seat sections, one of said removable partitions being provided with a lower opening communicating with the opening in one of the backs of the seat section when one of the panels is removed to afford access to the lower berth and one of the adjoining auxiliary compartments and the other of said partitions being provided with an upper opening communicating with the upper berth and the other of said auxiliary compartments.

1,342,703. PROCESS OF REPAIRING RADIATORS. WILSON M. WRIGHT, CLARENCE TEEPLES, and JAMES J. LAMB, Jefferson, Iowa. Filed Mar. 6, 1918. Serial No. 220,832. 3 Claims. (Cl. 113—112.)



1. An improved process of repairing reticulated objects, such as a radiator which process consists in supporting the object in a recumbent position upon supports arranged adjacent to the edges of the object, adjusting the object laterally to bring the portion thereof to be repaired into a selected vertical plane, melting sealing material in mass through radiation from a heating unit, cleaning and fluxing selected portions of an object to be treated, subjecting said selected portions successively to the influence of said heating unit and to the influence of heat radiated from the molten mass, then applying to said selected portions a flowing bath of the molten material removed from the mass, and recovering surplus sealing material to said mass by gravity flow through and from the reticulated object being treated.

1,342,704. INVISIBLE SUSPENDERS. ALBERT F. YOUNG Brooklyn, N. Y. Filed Dec. 30, 1919. Serial No. 348,254. 5 Claims. (Cl. 241—12.)



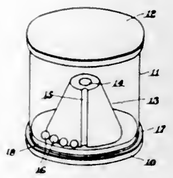
3. A device of the class described, comprising in combination, a back strap, branches extending therefrom over the shoulders and downward at the front, a flexible belt, connections between said strap and belt, said connections confining the movement of said belt in one direction and limiting its movement in another direction, other connections between said belt and said branches permitting lateral movement of the branches, clasps at the ends of said branches engageable with buttons at various points on the supported garment, and securing means removably engaged with said strap engageable with buttons at the rear of the garment.

1,342,705. WAGON END-GATE. ERICK E. ANDERSON, St. Louis, Mo. Filed May 27, 1919. Serial No. 300,015. 3 Claims. (Cl. 296—52.)



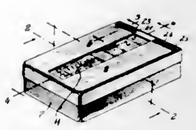
1. An end gate for wagon bodies comprising upright members, cross boards having slots therein and bolts passing through the upright members and said slots for connecting the boards to the upright members.

1,342,706. PUZZLE. EDWIN L. BOWMAN, Gardner, Mass., assignor to Charles A. Schmitz, West Medford, Mass. Filed July 23, 1919. Serial No. 312,812. 2 Claims. (Cl. 46—41.)



1. A puzzle having a truncated cone with a central chamber thereof and a walled track on one side thereon, leading to the top of said cone, the top of said cone having a flat surface extending outwardly from said chamber: a plurality of balls; and a base on which said balls are normally positioned.

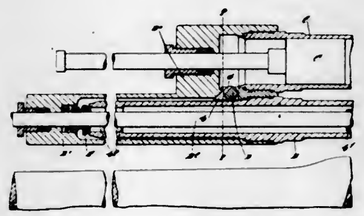
1,342,707. POCKET ACCOUNTING DEVICE. MAX L. BUCHHEIM, Brooklyn, N. Y. Filed Dec. 23, 1919. Serial No. 346,965. 3 Claims. (Cl. 281—7.)

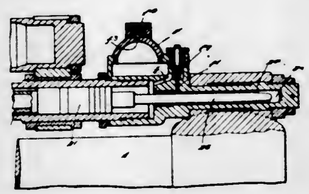


1. A pocket accounting device comprising a casing provided with a longitudinal slot in the top thereof and oppositely disposed transverse slots in the top and bottom, a support in the casing at the back of the longitudinal slot therein, and web carrying spools journaled in the casing at opposite sides of said support and provided with thumb-turns at the ends thereof having their peripheral portions exposed through the transverse slots aforesaid at the top and bottom and thereby engageable and operable by the thumb and finger applied over the top and bottom of the casing.

1,342,708. RECOIL AND RUN-OUT GEAR FOR ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed July 8, 1918. Serial No. 243,878. 4 Claims. (Cl. 89—43.)

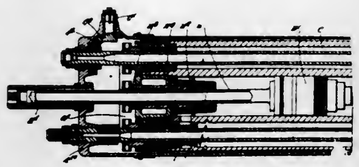
1. In ordnance recoil and run-out gear of the hydro-pneumatic type, the combination with the air reservoir and a cylinder serving the dual purpose of a recuperator cylinder and a recoil or brake cylinder, of an imperforate piston movable in said cylinder, a ram integral with the piston and preceding it during recoil having a varying cross-sectional area along its length which ram, toward the end of the recoil movement of the gun, enters a por-





tion of said cylinder having a smaller diameter than the remainder of the cylinder and communicating with the air reservoir by an aperture through which liquid passes from the cylinder to the reservoir during the recoil of the gun and also from the reservoir to the cylinder during the run-out of the gun, thereby gradually cutting off communication between the cylinder and the reservoir.

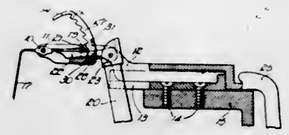
1,342,709. ORDNANCE RECOIL AND RUN-OUT APPARATUS. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, London, England. Filed July 19, 1919. Serial No. 312,100. 9 Claims. (Cl. 89—43.)



1. In ordnance recoil and run-out apparatus of the hydro-pneumatic type, the combination of an air reservoir, a recuperator cylinder communicating with the air reservoir and arranged at one side of, and at approximately the same level as, the said reservoir and a recoil or brake cylinder which does not communicate with the air reservoir and is arranged at the other side of, and at approximately the same level as, said reservoir, the axes of the cylinders lying in a horizontal plane which is not above the axis of the horizontal plane of the axis of the reservoir.

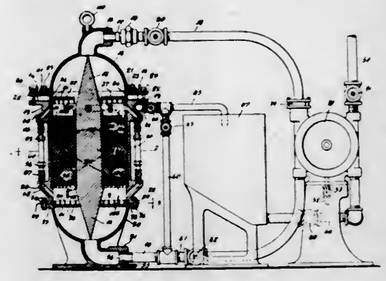
1,342,710. FILLING-DETECTOR MECHANISM. CLARE H. DRAPER and JONAS NORTHROP, Hopedale, Mass., assignors to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1917. Serial No. 153,926. 11 Claims. (Cl. 139—54.)

1. A filling detector mechanism having, in combination, a weft hammer, a detector slide, a filling fork pivoted thereon, and means connected with the slide for preventing the filling fork from returning to normal position when



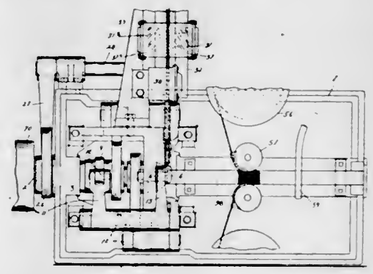
filling is present on a detecting beat, until the weft hammer has moved forward a predetermined distance.

1,342,711. DYEING-MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Sept. 21, 1917. Serial No. 192,433. 3 Claims. (Cl. 8—18.)



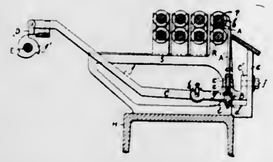
1. In a dyeing machine, in combination, a receptacle, a series of fiber chambers having imperforate sides within the receptacle, a foraminous bottom plate in each fiber chamber, a foraminous top plate slidably movable within each fiber chamber, means for moving the top plate with respect to the bottom plate and maintaining it in any predetermined position, a foraminous plate spaced below the bottom plates, a foraminous plate spaced above the top plates and means for forcing a liquid in either direction through the device.

1,342,712. METHOD AND MACHINE FOR FORMING GANGED BELT-FASTENING HOOKS. BERNT GARLUS and FRANK W. KNOTT, Detroit, Mich., assignors to Detroit Belt Lacer Company, Detroit, Mich., a Corporation of Michigan. Filed July 5, 1917. Serial No. 178,672. Renewed Nov. 6, 1919. Serial No. 336,231. 34 Claims. (Cl. 140—1.)



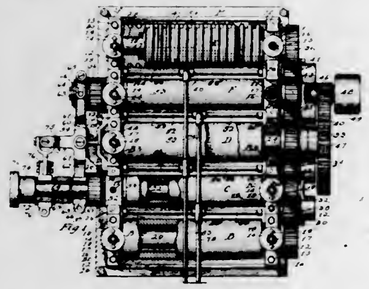
1. The method of forming ganged belt-fasteners, comprising the forming of a plurality of said fasteners in predetermined relation to each other, successively advancing the formed fasteners to produce a continuous series, feeding a ganging strip into contact with the advancing series and cementing the fasteners to said strip during said contact.

1,342,713. ROLLER-LAP STOP-MOTION. JAMES HEYWOOD, Manchester, and Charles Heywood, Stockport, England. Filed Oct. 30, 1919. Serial No. 334,600. 2 Claims. (19—25.)



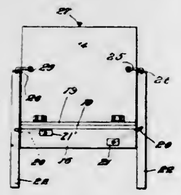
1. The combination, with a drawing roller having journals at its ends, of vertical rods provided with tongues at their upper ends which project under the said journals, a crossbar secured to the lower parts of the said rods, a guiding device for the crossbar, and a lever for controlling a stop motion operatively connected with the middle part of the crossbar.

1,342,714. MACHINE FOR EXTRACTING FIBER FROM PALMS AND THE LIKE. HALL H. HOLDAWAY, Los Angeles, Calif. Filed Aug. 2, 1918. Serial No. 248,661. 8 Claims. (Cl. 13—21.)



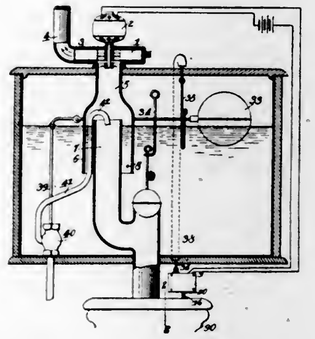
2. In a machine of the character described, a frame, a table at one end of said frame, a pair of receiving rollers having their axes disposed longitudinally of said frame and above said table, whereby fibrous material may be fed therebetween and subsequently deposited upon said table, and a plurality of pairs of frictional rollers mounted on said frame and having their axes transversely disposed relative thereto for the further treatment of the fibrous material.

1,342,715. FOLDING COMMODE-CHAIR. ALBERT A. HOWE, Terril, Iowa. Filed Feb. 18, 1919. Serial No. 277,748. 1 Claim. (Cl. 155—31.)



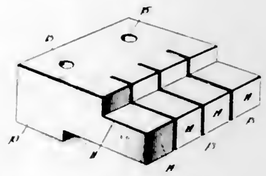
The herein described folding chair comprising a bottom, cleats secured beneath and extending entirely across the front and rear edges thereof and constituting aprons, two side members adapted when set up to rest against the edges of the bottom or when folded to lie superposed against its lower face between its edges and spaced from both aprons, a pair of hinge members having their outer ends bent toward each other and pivoted in the edges of one side, their bodies passing along the inner face of said aprons, and their inner ends bent away from each other and pivoted through the aprons, a like pair of hinge members for the other side, the pivotal points of one pair being near the upper edges and of the other pair near the lower edges of the aprons to permit the superposed folding of said sides, a back hinged across the rear edge of the bottom and foldable upon it or to upright position, and means fastening it to the sides when it is raised.

1,342,716. CLOSET-VENTILATOR. EDWIN A. JOHNSTON, Johnstown, Pa. Filed Dec. 10, 1917. Serial No. 206,412. 11 Claims. (Cl. 4—21.)



1. In a closet ventilator, an over-flow pipe, an exhaust pipe having a hood covering the end of the over-flow pipe and adapted to form a water seal therebetween, a motor operated fan in the exhaust pipe, seat-operated means for energizing the motor, and float-operated means coacting with said seat-operated means for de-energizing the motor.

1,342,717. PROCESS OF METAL-WELDING. EVERAH C. LIPPS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 9, 1917. Serial No. 201,143. 19 Claims. (Cl. 219—10.)



1. The method of electrically welding two pieces of metal having a greater weld surface than the capacity of the machine, consisting in dividing the weld surface of one piece into a plurality of surfaces each equal to or less than the capacity of the machine, and successively welding these latter surfaces to the other piece.

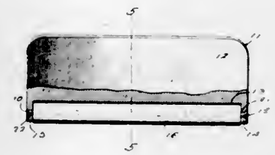
2. The method of electrically welding two pieces of metal having a greater weld surface than the capacity of the machine consisting in cutting one piece to form a plurality of surfaces each equal to or less than the capacity of the machine, successively welding these latter surfaces to the other piece and filling the space where the metal was cut away.

3. The method of electrically welding two pieces of metal having a greater weld surface than the capacity of the machine consisting in cutting one piece to form a plurality of surfaces each equal to or less than the capacity of the machine, successively welding these latter surfaces to the other piece, filling the space where the metal was cut away, and welding this filling to the pieces.

4. The method of electrically welding two pieces of metal having a greater weld surface than the capacity of the machine consisting in dividing the weld surfaces into a plurality of contacting surfaces each equal to or less than the capacity of the machine, and welding these latter surfaces.

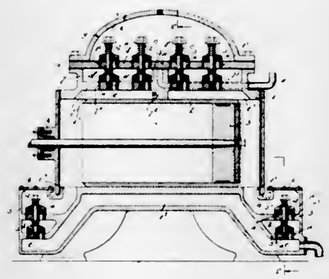
5. The method of welding a small piece to a larger piece of metal consisting in dividing the portion of the large piece at the weld into a plurality of sections and welding each section successively to the small piece.

1,342,718. STEEL FOR GUITARS. MAX NEFT, Seattle, Wash. Filed Aug. 13, 1919. Serial No. 317,304. 3 Claims. (Cl. 84—80.)



3. A steel for stringed instruments, comprising a body portion, outwardly extending arms arranged on the body portion, said arms being positioned to form a recess in the body portion, and a smooth roller mounted in said recess and adapted to contact with the strings of the instrument to be played.

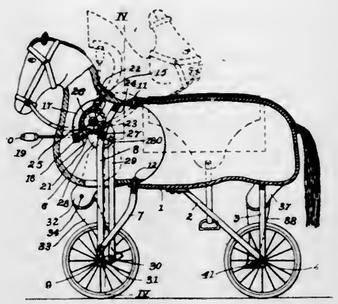
1,342,719. DOUBLE-ACTING HIGH-PRESSURE PUMP. ELOY RODRIGUEZ, Fajardo, Porto Rico. Filed Nov. 9, 1918. Serial No. 261,903. 2 Claims. (Cl. 277—70.)



1. In a pump or the like, the combination with the stationary walls of a valve chamber, of a double valve consisting of two superposed perforated disks serving as valve seats, both said seats being screwed in the said stationary walls, movable valve bodies over said seats and a common spindle fixed in one of said valve seats, and on which said valve bodies are movably mounted.

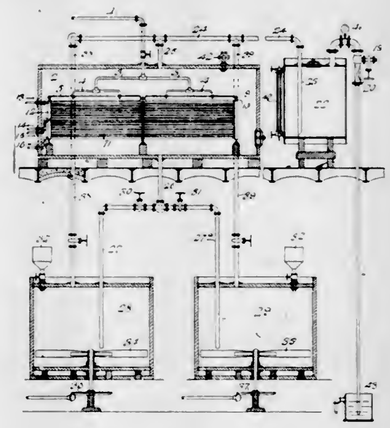
1,342,720. VELOCIPEDE. JOSEPH SCANLAN, Brooklyn, N. Y. Filed Aug. 16, 1919. Serial No. 317,926. 4 Claims. (Cl. 208—165.)

1. In a velocipede, the combination with a body in the form of an animal, of wheels for supporting said body, a shaft for the front wheels, another shaft housed in the front portion of the body, driving connection between said shafts, a gear for rotating said shaft in the body, a lever carrying a pawl to engage said gear for actuating the same, transverse bar attached to said lever and extending through slots in the body, and handles on the



opposite ends of said bar and arranged at opposite sides of the body for operating the lever by both hands of the rider.

1,342,721. APPARATUS FOR RECOVERING VOLATILE AND FERMENTABLE MATTER FROM LIQUIDS. AUGUST SCHAEFER, Portland, Oreg., assignor to Northwest Process Company, Portland, Oreg., a Corporation of Oregon. Filed Jan. 25, 1917. Serial No. 144,570. 8 Claims. (Cl. 23—1.)

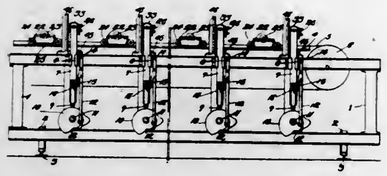


1. In an apparatus for recovering volatile and fermentable matter from liquids, an evaporating chamber, a vertically stacked coil of pipes in said evaporating chamber, a perforated distributer extending over the top of said coil of pipes, a strainer in such distributer, means for heating said coil of pipes, a residuum chamber, a valved pipe discharging from the evaporating chamber into the residuum chamber, a saturation tank, a vacuum creating device connected with the saturation tank, and a passageway between the latter and said evaporating chamber.

1,342,722. FABRIC-PRINTING MACHINE. DAVID L. SNOW, Philadelphia, Pa. Filed Sept. 18, 1919. Serial No. 324,536. 12 Claims. (Cl. 101—199.)

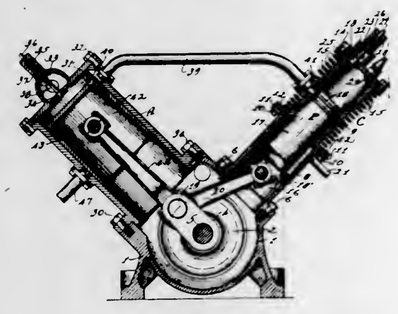
1. In a printing machine of the class described, the combination with a bed and means for drawing a fabric over said bed, of a plurality of reciprocatory heads, com-

prising a head having a plurality of printing faces and means whereby it can be turned to position said faces



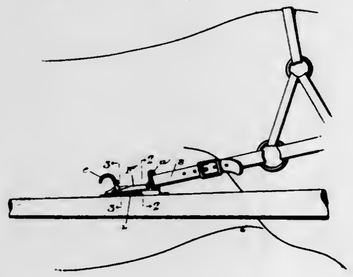
so that they can be pressed against a fabric on said bed, and mechanism for selectively operating said heads in synchronous relation.

1,342,723. INTERNAL-COMBUSTION ENGINE. MILLARD E. STOCKWELL, Monrovia, Calif. Filed Mar. 12, 1919. Serial No. 283,279. 12 Claims. (Cl. 60—15.)



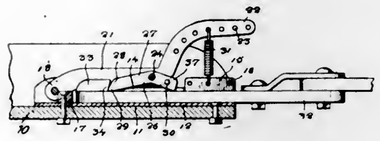
1. An air and gas engine having tandem cylinders, a double piston operating therein, an auxiliary cylinder adapted to be heated by the exhaust from the principal cylinder, the double piston being capable of compressing charges in the principal cylinder and exhausting into said auxiliary cylinder, the expansion of said charges operating to impart a plurality of impulses to the said piston upon each working stroke.

1,342,724. HOLDBACK. ROBERT TALLON, Apulia, N. Y. Filed Sept. 26, 1919. Serial No. 326,442. 5 Claims. (Cl. 21—27.)



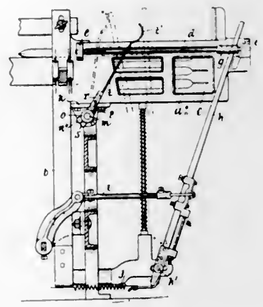
1. A hold back device comprising a base plate attachable to a shaft, and a longitudinally slotted plate that includes a member for connecting with the breeching strap, the said body plate and the base plate having engaging means including a locking lug on the base plate that extends through the longitudinal slot in the body plate and a detent carried by the slotted body plate adapted for engaging the lug, whereby to hold the body and base plates in interlocked engagement.

1,342,725. HITCH. LESLIE A. THOMAS, Evansville, Ind. Filed June 22, 1918. Serial No. 241,378. 4 Claims. (Cl. 213—67.)



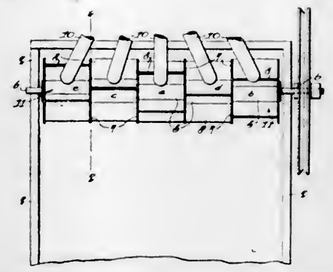
3. In a hitch for the purpose set forth, a channeled member having an open top and its sides at its outer end extended above the top, and one of the sides at its inner end also extending above the top, a block secured to the inner end of the channeled member, a lever comprising spaced bars pivotally secured between the extending sides at the outer end of the member, one of said bars having an arched end projecting beyond the end of the other bar, the said end having a plurality of spaced apertures, an angle pawl pivoted between the arms of the lever, the active end of said pawl being inclined, the projecting side at the inner end of the channeled member having spaced apertures, a member movable in the channeled member, said movable member having a centrally arranged block at its inner end and its corners beveled to the sides thereof from the sides of the block, the inner face of the block being arranged at an inclination and being designed to be engaged by the active end of the angle pawl, and a removable spring having its ends secured in certain of the perforations in the arched end of the lever and in the projecting side at the inner end of the channeled member.

1,342,726. PICKING-MOTION-CHECKING MEANS FOR LOOMS. CAMIEL VAN DE VOORT, Haledon, N. J. Filed Feb. 5, 1920. Serial No. 356,524. 2 Claims. (Cl. 139—22.)



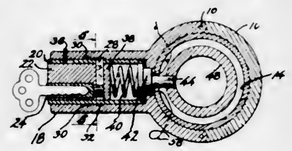
1. In combination, with the batten-including structure of a loom, shuttle picking means therein, and means to check each picking stroke of the picking means including an elastic lever fulcrumed in position to be impinged by the picking means near the end of each such stroke and a spring opposing movement of said lever under the pressure of the picking means, said lever including a fulcrum part having an arm and a slender elastic impact-receiving part projecting from and attached to said arm.

1,342,727. DISTRIBUTER FOR ROCK-PULP. WILLIAM T. BARNEY, Vancouver, British Columbia, Canada. Filed May 8, 1919. Serial No. 295,685. 5 Claims. (Cl. 83—68.)



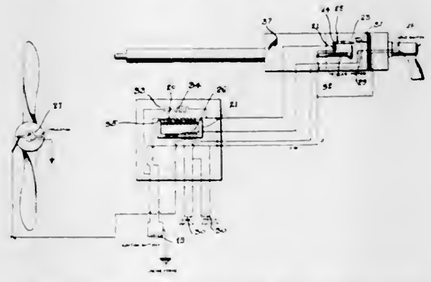
1. A pulp distributer, comprising the combination with a flat table, the surface of which is uninterruptedly produced and upwardly turned at one end, of means for delivering pulp through separate outlets disposed at substantially equal distances apart across the width of the table, and means interposed between the delivery outlets of the pulp and the surface of the table for intermittently delivering the pulp against the upwardly turned end of the table.

1,342,728. LOCK FOR STEERING-POSTS OF AUTOMOBILES. CLARENCE R. WELCH, Denver, Colo. Filed Oct. 21, 1919. Serial No. 333,226. 5 Claims. (Cl. 70—127.)



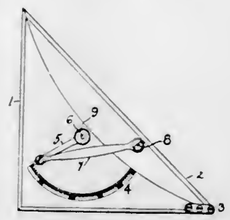
1. A steering post lock comprising a housing adapted to be secured to a steering post casing, a barrel movable in said housing, a key-operated locking finger in said barrel projecting through said barrel and adapted to enter a recess in the housing, and a pin also mounted in said barrel and extending therefrom and adapted to project through said casing and into the steering post.

1,342,729. SYNCHRONIZED AIRPLANE-GUN-CONTROL SYSTEM. FRANK WENNER, Washington, D. C., and FRED J. MARTEL, Hanover, N. H. Filed Aug. 26, 1919. Serial No. 320,014. 21 Claims. (Cl. 89—28.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



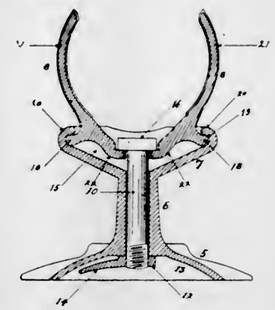
1. A device for timing the firing of automatic airplane firearms in phase with the rotation of the propeller of the airplanes, comprising an electric circuit, a normally energized magnet in the circuit maintaining the firing mechanism in cocked position, and means conjointly controlled by the firearm and a part moving in phase with the propeller to deënergize the magnet.

1,342,730. ADJUSTABLE SET-SQUARE. JAMES WESTWOOD, Brighouse, England. Filed July 7, 1919. Serial No. 308,930. 3 Claims. (Cl. 33—93.)



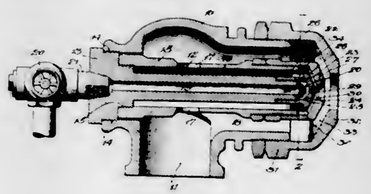
1. In a set square, a triangular main portion, a side portion pivoted to the main portion at one of its angles, a relatively short member pivoted to the main portion, means for locking the short member to the main portion, and a link member of greater length than the said short member and pivoted to it and to the said side portion, the said short member and the main portion of the square being provided with scale and index members one of which is stationary with respect to the other and operating conjointly to indicate the angular position of the side portion with respect to the main portion.

1,342,731. DISPLAY-STAND FOR TIRES. CHARLES WALTER YELM, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a Corporation of Colorado. Filed May 10, 1919. Serial No. 296,094. 8 Claims. (Cl. 211—24.)



4. A display stand for tires comprising a base having an open cavity in its upper portion, jaws loosely and removably fulcrumed in said cavity, and means for adjusting the jaws.

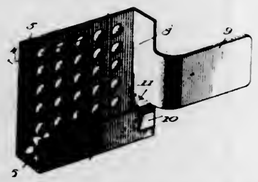
1,342,732. FUEL-OIL BURNER. ALFRED R. ANTHONY, Detroit, Mich. Filed Dec. 30, 1918. Serial No. 268,885. 5 Claims. (Cl. 158—76.)



1. A burner of the character described including in combination, a body having a fuel tube closed at its discharge end and also having a portion at said end reduced in diameter, a cap on said end having a discharge opening

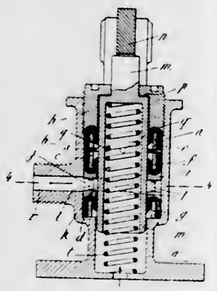
co-axial with the tube, the space between the reduced end and cap forming a chamber, the tube wall at the reduced end having apertures inclined transversely to the radial whereby the fuel is discharged from the opening in the cap with a whirling motion.

1,342,733. BALL-BEARING COUNTER. RAYMOND BROOKS AUSTIN, Delaware, Ohio; Cyrus B. Austin administrator of said Raymond Brooks Austin, deceased. Filed Oct. 16, 1917. Serial No. 196,957. 1 Claim. (Cl. 211—8.)



A ball bearing counter, comprising a plate having a predetermined number of similar ball receiving means in its upper surface for permitting a predetermined number of balls to be held while the remainder are tipped off, said plate having at two adjacent sides upwardly extending flanges, one of said flanges having a handle and the other a web overlying the plate to form with the flanges a holder for the balls when the plate is tilted toward the said web.

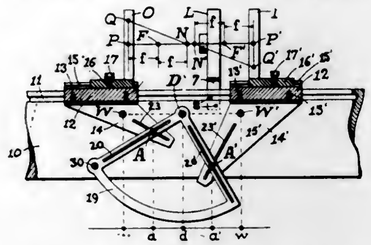
1,342,734. WATER-DISTRIBUTER. ALFRED HENRI BARTHEZ, Alger-Belcourt, Algeria. Filed Oct. 31, 1918. Serial No. 260,532. 1 Claim. (Cl. 251—78.)



A distributer for water and other liquids and fluids comprising a cylinder having orifices therein for the entrance and exit of the fluid respectively, a hollow slide in said cylinder in communication with the entrance orifice having orifices normally out of communication with the exit, a diffuser fixed between the cylinder and the slide opposite the exit orifice and consisting of a ring having upper and lower parts connected by a thin partition forming annular channels between the cylinder and the slide, said partition having openings placing the annular spaces in communication with each other, a packing between the cylinder and the slide forming an annular chamber normally communicating with the interior of the latter whereby a hydraulic seal is formed between the slide and cylinder, and means for displacing the slide within the cylinder.

1,342,735. COPYING OR ENLARGING CAMERA. JOSEPH BECKER, Washington, D. C.; Edmund Becker administrator of said Joseph Becker, deceased. Substitute for application Serial No. 727,548, filed Oct. 24, 1912. This application filed Oct. 16, 1918. Serial No. 258,467. 4 Claims. (Cl. 88—24.)

1. The combination with a photographic camera comprising a lens support, an image support and an object support, and ways adapted to guide two of said supports with relation to the third; of mechanism for connecting the said three supports to compel the image and object



supports to move simultaneously in opposite directions with relation to the lens support at a constant velocity ratio.

1,342,736. FOUNTAIN-PEN. MARTIN BORBECK, Sioux City, Iowa, assignor to Houston Fountain Pen Company, Sioux City, Woodbury county, Iowa, a Corporation. Filed Mar. 23, 1918. Serial No. 224,266. 4 Claims. (Cl. 120—46.)

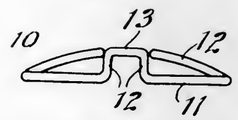


1. In a self filling fountain pen having a barrel formed with a central recess in its head of smaller diameter than the bore of the barrel, a collapsible ink reservoir, a presser bar and means for collapsing the reservoir, the improvement which consists of a spring for returning the bar having a part rigidly secured in said central recess in the head of the pen.

1,342,737. METHOD OF RECOVERING BY-PRODUCTS FROM WASTE LIQUORS. GEORGE M. BRADFORD and JAMES E. BROADHEAD, Bay City, Mich. Filed Sept. 16, 1918. Serial No. 254,304. 2 Claims. (Cl. 204—9.)

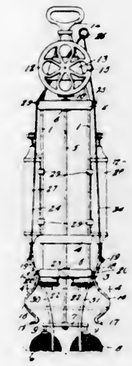
1. The method of recovering by-products from Steffens waste liquors, which consists in, first, concentrating the waste liquor by evaporation to approximately thirty degrees Baumé; second, subjecting the concentrated liquor to the action of an electric current of sufficient intensity to produce an arc in said liquor, whereby evaporation, combined with electrolytic dissociation is first produced, followed by complete combustion; third, cooling the gaseous products of evaporation and combustion and recovering the solid potash-bearing products remaining after combustion.

1,342,738. FASTENER. JAMES PATRICK BURKE, Struthers, Ohio. Filed Mar. 10, 1919. Serial No. 281,580. 4 Claims. (Cl. 24—218.)



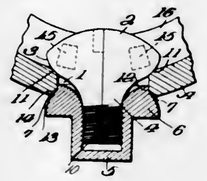
1. A fastener including a ball element and a socket element, said socket element being formed of wire presenting an annular rim comprising equally spaced sections to which attaching means are secured, said sections terminating in side arms convergent inwardly and curved upwardly from plane of said rim, adjacent side arms of adjacent sections being joined at their inner ends by arcuate connecting bars, curved to define a central circular opening to receive the ball or head of the ball element.

1,342,739. CUSPIDOR-CLEANER. CARLOS COSME, Corona, N. Y. Filed Mar. 20, 1918. Serial No. 223,518. 2 Claims. (Cl. 141—7.)



1. In a cuspidor cleaner, the combination with a frame, scrubbing mechanism carried thereby, clamping jaws movably carried by the frame, and independent means on the latter for actuating said mechanism and setting said jaws; of devices on the frame for injecting liquid into the cuspidor and extracting it therefrom, and means for actuating said devices to perform either function at will, for the purpose set forth.

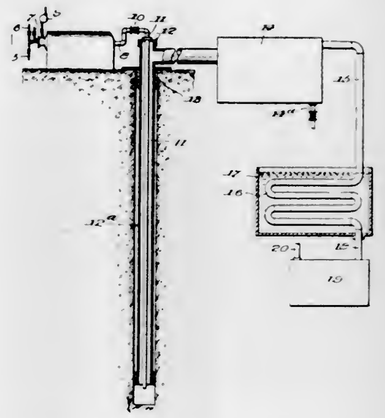
1,342,740. WASHOUT-PLUG FOR BOILERS. FRANK CRIST, Lima, Ohio. Filed Sept. 27, 1918. Serial No. 255,932. 3 Claims. (Cl. 220—25.)



1. A wash-out plug for boilers, comprising a boiler having an opening, a sectional plug having a rounded head for engaging the wall of the boiler around the opening, and a nut having screw-threaded engagement with the plug for drawing it to its seat, said nut having an enlarged portion adapted as the nut is screwed onto the plug to engage the opposite wall of the boiler around the opening.

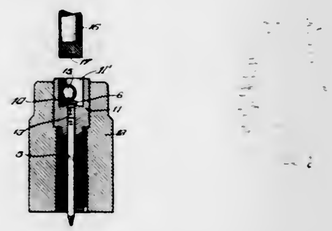
1,342,741. PROCESS FOR EXTRACTING OILS AND HYDROCARBON MATERIAL FROM SHALE AND SIMILAR BITUMINOUS ROCKS. DAVID T. DAY, Washington, D. C. Filed Jan. 17, 1918. Serial No. 212,317. 5 Claims. (Cl. 262—3.)

1. The process of extracting hydrocarbon material from earthy material while in its natural state, in the ground, which comprises the production of hot gases of combustion substantially devoid of oxygen, the introduction of said hot gases of combustion into an opening extending into the earth and into contact with said earthy material containing the desired hydrocarbon material, heating and vaporizing the hydrocarbon material by contact with said hot gases of combustion, the conduction of the combined



vaporized products and hot gases of combustion in their aeriform state from said opening in the earth, and the separation of the combinted materials so extracted.

1,342,742. METHOD OF MAKING WEATHERPROOF NAILS. GEORGE E. DICKSON, Chicago, Ill. Original application filed Sept. 6, 1917, Serial No. 190,071. Divided and this application filed May 5, 1919. Serial No. 294,753. 1 Claim. (Cl. 10—161.)

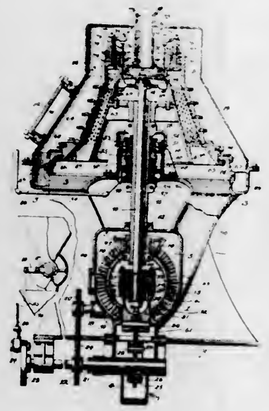


The method of applying a soft metal cap to the head of a nail to make a weatherproof nail which consists in providing a die with a chamber therein having a diameter substantially equal to that of the cap to be applied and open at one end and having a passage communicating with its other end, inserting a nail in said passage to close communication between the chamber and said passage, said nail having its head arranged in said chamber with its top edge and bottom free, inserting a mass of cold soft metal in said chamber above the head of the nail, said mass being sufficient to form the cap, and then subjecting said mass to pressure by introducing a punch through the open end of the chamber to cause the entire mass of metal to flow over the top and about the edge and under the bottom of said head to form in one operation a complete cap consisting of all of said mass of metal and locked to the head of the nail.

1,342,743. CENTRIFUGAL DRIER. GUY H. ELMORE, Swarthmore, Pa. Filed Aug. 8, 1918. Serial No. 248,911. 10 Claims. (Cl. 210—25.)

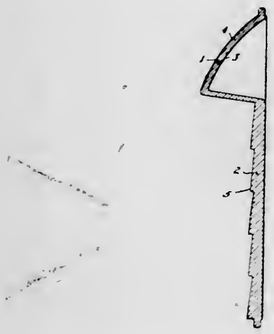
1. In combination with the rotor of a centrifugal drier, comprising an inner solid portion and an outer annular

perforate portion; an axially arranged feed inlet having a discharge outlet opening into the annular space be-



tween the inner and outer members of the rotor; and a plunger or piston movable across said outlet and serving to force the fed material into said annular space.

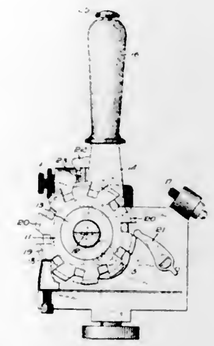
1,342,744. REFRACTIVE GLASS FOR AUTOMOBILE-LAMPS. HOWARD S. EVANS, Pittsburgh, Pa., assignor to Macbeth-Evans Glass Company, a Corporation of Pennsylvania. Filed February 23, 1917. Serial No. 150,364. 6 Claims. (Cl. 240—48.4.)



1. An integrally formed cover glass for a vehicle headlight, comprising a lower light transmitting and refracting portion, an upper vizor portion protruding beyond said lower portion and being provided with an interiorly reflecting face, and a laterally extending portion joining the lower edge of the vizor portion with the upper edge of the lower portion.

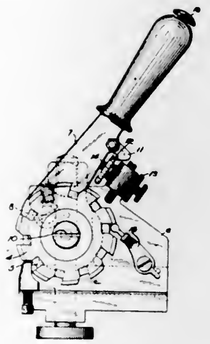
1,342,745. LATHE-TOOL. FREDERICK H. HALSTEAD, Boston, Mass., assignor to Rivett Lathe and Grinder Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1919. Serial No. 278,749. 2 Claims. (Cl. 82—34.)

1. In a lathe tool, the combination of a body or frame, an oscillatory lever, a cutter disk providing a plurality of progressively increasing cutting points and located on the same side of the frame with said lever, and means effective at each oscillation of said lever for imparting



step-by-step rotation to said cutter disk, thereby progressively to present said progressively increasing cutting points to the work.

1,342,746. LATHE-TOOL. FREDERICK H. HALSTEAD, Boston, Mass., assignor to Rivett Lathe and Grinder Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1919. Serial No. 288,215. 5 Claims. (Cl. 82—34.)

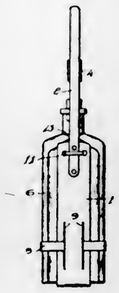


1. In a tool of the class described, the combination of a rotatable cutter disk providing a plurality of cutting points and a stock therefor including an oscillatory lever, a bearing for the cutter disk having its axis eccentric to and normally below the axis of oscillation of the lever, means for holding the cutter disk rigid during the cutting operation and means for imparting partial rotation to said cutter disk when the lever is oscillated.

1,342,747. BOTTLE-HOLDER. MICHAEL J. HYLAND, Rochester, N. Y. Filed Sept. 24, 1919. Serial No. 326,019. 2 Claims. (Cl. 215—1.)

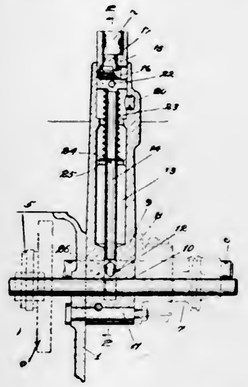
1. A bottle holder comprising a supporting band, sustaining means connected to opposite ends of the band, an adjustable band at one side of the bottle and free from the band at the opposite side of the bottle for lateral support secured to the band, and a second adjustable lateral

supporting means for engaging the neck of the bottle, said second lateral supporting means embodying two flexible



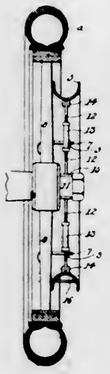
strands connected to the supporting band near both of its ends and adapted to be twisted between the ends to pass about the neck of the bottle.

1,342,748. AUTOMOBILE-LOCK. GEORGE C. JENSEN, Oakland, Calif. Filed June 26, 1918. Serial No. 242,000. 1 Claim. (Cl. 70—126.)



An automobile motor transmission lock comprising in combination with a transmission gear shift device, of a supporting member provided with an opening for the reception of said gear shifting member and through which the same reciprocates, said member being further provided with a bore closed at one end and arranged at substantially right angles to said opening intersecting said opening and the other end of which opens at one end of said member, said bore provided in its side wall near its upper open end with a longitudinally disposed slot, a locking bolt within said bore and capable of longitudinal movement therein, said bolt being provided with an enlarged head, a spring for normally maintaining the head of said bolt projected outwardly from the open end of said bore, said bolt adapted for manual depression to engage said gear shift device and lock the same from movement, an operating handle extended through said slot and connecting with said enlarged head for preventing axial rotation of the bolt within said bore, a latch carried by the enlarged head of said bolt for projecting laterally beyond one side thereof and adapted on the depression thereof for engaging within a recess in said body, and lock-controlled means seated within said head and coöperating with the latch for releasing the same, said latch and lock controlled means being movable longitudinally with said bolt.

1,342,749. DEVICE FOR EXTRACTING AUTOMOBILES FROM MUDHOLES OR THE LIKE. EDWARD J. KACZMAREK, Stevens Point, Wis. Filed Feb. 14, 1920. Serial No. 358,676. 3 Claims. (Cl. 242—95.)



1. In a device for extracting vehicles from mud holes or the like, a drum attachment for the driven supporting wheels of said vehicle including a drum rim having inwardly projecting ears rigid therewith, hooks adjustable transversely through the ears and arranged to engage and clamp the spokes of the vehicle wheel, and spokes projecting radially inwardly from and carried by said drum rim, said spokes having hub flange engaging shoes upon their inner ends.

1,342,750. FOLDING CRATE. JOHN MCCAULEY, New York, N. Y. Filed May 15, 1917. Serial No. 168,803. 1 Claim. (Cl. 217—15.)

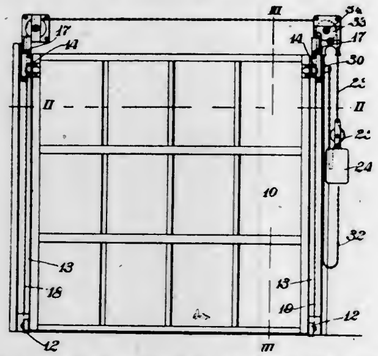


A folding crate comprising a bottom, fixed side bars along its opposite longitudinal edges, inwardly foldable ends hinged to the bottom between the side bars, sides hinged to the side bars and foldable inwardly into the same plane with each other upon the ends when folded, cover sections swingingly connected to the upper edges of the respective sides and adapted to fold outwardly upon the sides when folded, hooks on the bars engaging eyes on the normally upper faces of said sections, a hasp on one cover section engaging one of said eyes on the other when the box is set up and the cover closed, recessed lock plates in one section, and hooks pivoted inside said ends and engaging the lock plates when the box is set up.

1,342,751. DOOR AND THE LIKE. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 4, 1918. Serial No. 256,924. 3 Claims. (Cl. 20—19.)

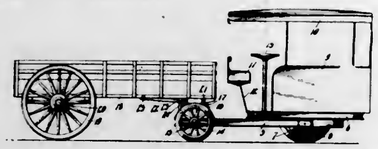
1. In combination with a door, means for deflecting the door at its upper end when raised, means upon which a portion of the weight of the door is supported when deflected, a counter-weight for the door, a looped flexible member connected with the door and with a fixed point

for supporting said counter-weight, and a lug in said flexible member for sustaining said counter-weight sub-



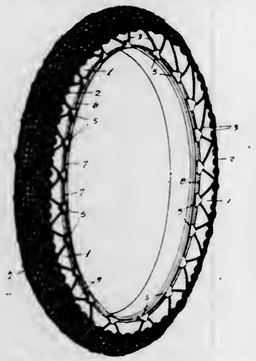
stantially when the door wholly supports said counter-weight.

1,342,752. MOTOR-TRUCK. CHARLES G. MCCUTCHEN, Indianapolis, Ind., assignor to The Highway Tractor Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 18, 1917. Serial No. 181,201. 1 Claim. (Cl. 180—14.)



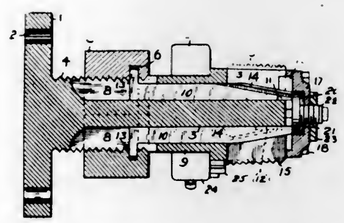
A motor truck embodying a load-carrying unit having rear wheels and one-half of a fifth wheel at the forward end, a tractor unit embodying a U-shaped frame, a tractor wheel mounted to swivel between the members of the frame, a dead axle extending across and spaced from the closed end of the U-frame, wheels journaled upon the dead axle, a brace extending across the frame spaced from the axle and in parallelism with the axle and frame end, a spider having two of its legs secured at spaced points upon the axle and two other legs secured to the frame-end and the brace respectively, said spider so constructed standing above the plane of the axle and frame, a fifth wheel section carried by the spider complementary to the first mentioned fifth wheel section, and means to swivel the fifth wheel sections together.

1,342,753. NON-SKID DEVICE. WILLIAM C. MCGEORGE, San Francisco, Calif., assignor of one-half to Robert T. Ash, San Francisco, Calif. Filed Apr. 2, 1919. Serial No. 288,602. 3 Claims. (Cl. 152—16.)



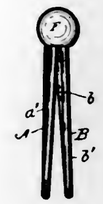
1. A non-skid device for pneumatic tires and the like comprising a mat woven of a resilient material and arranged to engage the entire periphery and tread of a tire; a circumferential net arranged around the mat; and flexible means for engaging the net to hold the mat upon the tread.

1,342,754. TAP. GEORGE E. MILLER, Etna, Pa. Filed July 7, 1919. Serial No. 309,016. 3 Claims. (Cl. 10—145.)



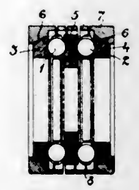
1. In a tap, a body having its inner end threaded and provided with longitudinal grooves inclined in the direction of the rotation of the tap and having their bases parallel with the center line of the body, a nut coöperable with the threads on the body, slides in the grooves connected to the nut and movable longitudinally thereby, and threading dies adapted to be moved at right angles to the movement of the slides by movement of the slides.

1,342,755. CLOTHESPIN. JOHN MUCK, Milwaukee, Wis. Filed Nov. 4, 1918. Serial No. 260,980. 5 Claims. (Cl. 24—139.)



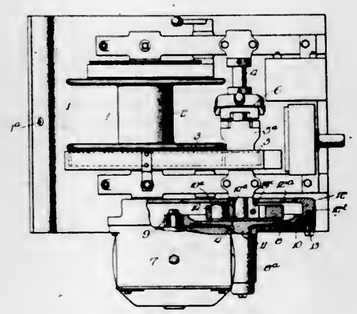
1. A clothespin comprising a piece of wire bent or folded upon itself to form a pair of downwardly extending loops integrally connected by an upper loop, the extremities of the wire being located in proximity to the upper loop, and a cap cavering the upper loop and the extremities of the wire, and interlocked therewith.

1,342,756. DOUBLE-ACTING THRUST BALL-BEARING. NILS ARVID PALMGREN, Gottenborg, Sweden, assignor to S. K. F. Administrative Company, Inc., New York, N. Y. Filed June 24, 1919. Serial No. 306,416. 5 Claims. (Cl. 64—49.)



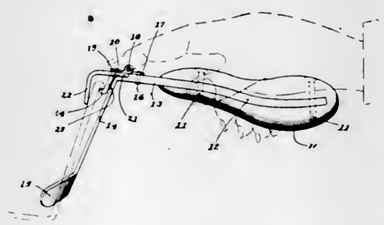
4. In a double-acting thrust ball bearing, a sleeve inclosing the thrust bearing proper and provided with slits arranged in planes at right angles to the shaft, each of the slits in each plane extending along a portion of the circumference of the sleeve.

1,342,757. MEANS FOR APPLYING ELECTRIC MOTORS TO WINDING-ENGINES. ALEXANDER PALMROS, Syracuse, N. Y., assignor to The Pneumelectric Machine Company, Syracuse, N. Y., a Corporation of New York. Filed July 5, 1919. Serial No. 308,743. 5 Claims. (Cl. 254—186.)



1. In combination with a winding hoist having a base, a driving shaft and a standard rising from the base and constructed to receive the driving shaft thereof, a motor having a base-plate attached to said standard and thereby supported from the base, and gearing members carried, respectively, by the driving shaft of the hoist and by the motor base-plate, and brought into assembly by the application of the motor base-plate to the standard.

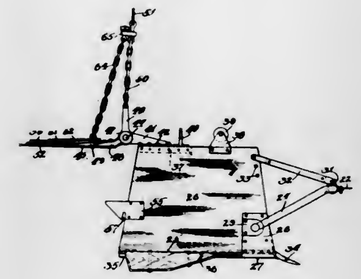
1,342,758. POT-LIFTER. VLADYSLAW PUCHAZCKEVSKI, Montreal, Quebec, Canada. Filed Aug. 14, 1919. Serial No. 317,449. 1 Claim. (Cl. 294—31.)

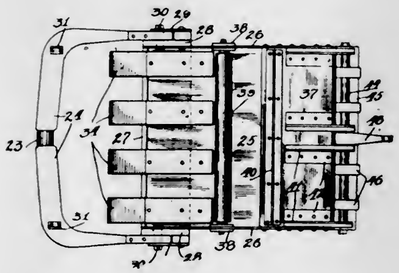


In a pot lifter, the combination with a non-conducting handle suited to the palm of an operator's hand, a bar engaged in said handle, diagonally disposed downwardly extending arms formed at the extremity of said bar, wing elements disposed in opposite directions and carved to suit the exterior of the article to be lifted, a pair of spaced downwardly turned projections hingedly engaged with the extending ends of the first named bar, said projections being adapted to make contact with the exterior of the vessel, and a pair of hooks carried by said hinged elements, said hooks being adapted to engage below the beading of the article to be raised.

1,342,759. EXCAVATING-DIPPER. MORTON E. PUGH, Chicago, Ill. Filed Apr. 17, 1919. Serial No. 290,737. 7 Claims. (Cl. 37—54.)

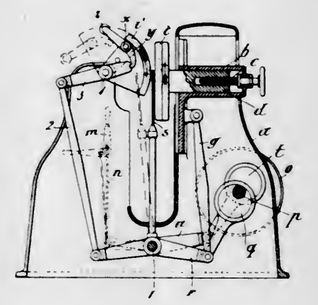
2. An excavating dipper having a door for closing one end thereof, a drag cable connected to the other end of the dipper, a fulcrumed latch bar extending across the door, locking members on the dipper adapted to receive the latch bar to hold the door locked in closed position, and a releasing chain for the door connected to one end of





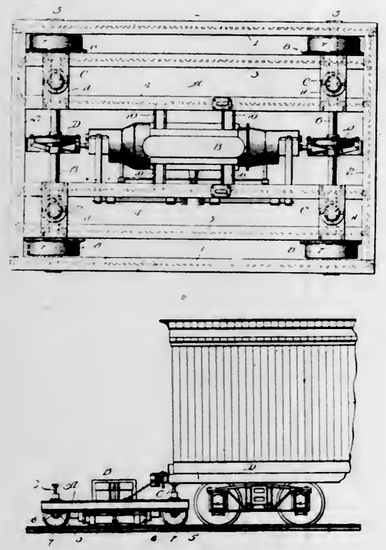
the latch bar and adapted to automatically swing the latch bar into locking engagement when the door falls into closed position.

1,342,760. BOARDING-MACHINE. CARL A. RAUSCH, Leipzig-Gohlis, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Mar. 23, 1915, Serial No. 16,511. Renewed Oct. 16, 1918. Serial No. 258,394. 4 Claims. (Cl. 149—20.)



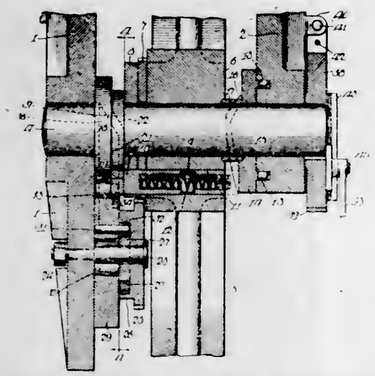
4. In a boarding machine, in combination, two boarding members, the working faces of said members facing each other, at least one of said members having a curved working face, a support for introducing a hide vertically between said members and permitting the free ends of the hide to hang downward on both sides of it, and means for imparting to the working forces of said members an up and down movement in opposite directions.

1,342,761. TRACTION-VEHICLE. ORLO D. RICHARDSON, Chicago, Ill. Filed Feb. 21, 1918. Serial No. 218,412. 6 Claims. (Cl. 105—27.)



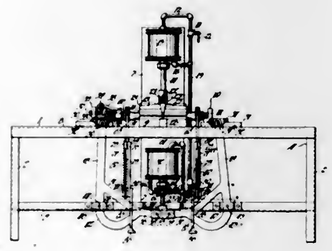
1. A traction vehicle of relatively light construction provided with a relatively low power operating device, drive wheels journaled adjacent one end thereof, means on the vehicle disposed immediately above and in vertical alinement with the axis of said drive wheels, whereby a portion of the weight of a movable object may be transferred to said vehicle to afford additional traction to its driving wheels and means for holding the movable object and said vehicle in operative relation when the vehicle is moved.

1,342,762. CLUTCH-CONTROLLING MECHANISM. JOSEPH F. RYAN, Chicago, Ill. Filed Oct. 16, 1918. Serial No. 258,343. 10 Claims. (Cl. 74—46.)



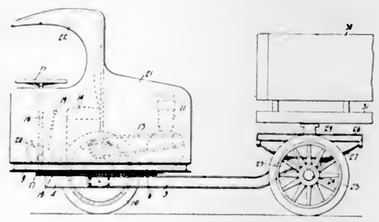
1. A clutch mechanism, comprising, in combination, driving and driven members, interposed primarily and secondary counterpart clutch members, one movably mounted in and carried by the driving member and the other rigid with the driven member, means for successively moving said primary clutch member into an engaging position, a movable retractor for holding said clutch-member out of engagement with its fellow when in its path of movement and cam and gear mechanism rotatively mounted upon a stationery support and in movable relation to and in operative connection with said driving member for moving said retractor independently of said clutch members into the path of said primary clutch member at predetermined intervals.

1,342,763. APPARATUS FOR APPLYING AND REMOVING HOSE-COUPLINGS, NIPPLES, BANDS, &c. ALEXANDER JAMES SARJEANT, Port Huron, Mich., assignor of one-fourth to William B. Robeson and one-fourth to Aaron M. Rose, Port Huron, Mich. Filed Nov. 20, 1918. Serial No. 263,286. 14 Claims. (Cl. 29—88.2.)



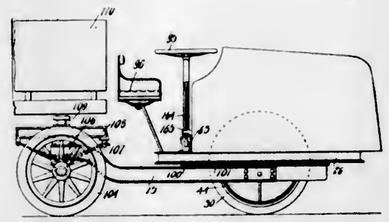
1. In apparatus of the class described, means for contracting a band onto a hose section comprising a pair of opposed levers pivoted intermediate their ends, one pair of the arms of said levers constituting grips adapted to embrace the hose section, and means associated with the other pair of arms of said levers for controlling the movement of said grips toward and away from each other, the latter pair of arms being adjustable in length.

1,342,764. TRACTOR. ALBERT E. SCHAAF and STANLEY W. MILLS, Indianapolis, Ind. Filed Nov. 26, 1917. Serial No. 204,025. 1 Claim. (Cl. 180—14.)



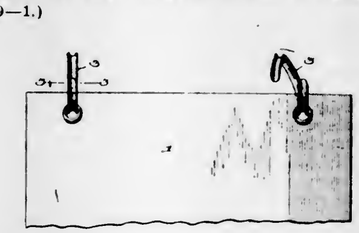
In a tractor the combination of a frame, a revoluble section mounted in the frame, a single tractor wheel journaled in the revoluble section, an operator's seat and a steering control mounted on the revoluble section in advance of the tractor wheel, and a motor and transmission gearing mounted on the revoluble frame in the rear of the tractor wheel and having driving connection therewith, all disposed in radial symmetry to the central vertical axis through the tractor wheel and balanced along the longitudinal medial line of the frame, substantially as set forth.

1,342,765. TRACTOR. ALBERT E. SCHAAF and STANLEY W. MILLS, Indianapolis, Ind., assignors to Highway Tractor Company, Indianapolis, Ind., a Corporation of Indiana. Filed Dec. 29, 1917. Serial No. 209,497. 12 Claims. (Cl. 180—26.)



1. In a chassis for tractors, the combination of a frame having an annular section, a revoluble section mounted in said annular section, truss bars mounted on said revoluble section, and a super-frame structure mounted on said truss bars, substantially as set forth.

1,342,766. LOOSE-LEAF BINDER. JOHN SCHADE, Holyoke, Mass., assignor to National Bank Book Company, Holyoke, Mass., a Voluntary Trust Association of Copartnership having as trustees, J. W. Towne, F. B. Towne, E. S. Towne, J. M. Towne and F. W. Wilson. Filed Oct. 2, 1919. Serial No. 327,899. 2 Claims. (Cl. 129—1.)



1. A binder ring formed of ribbon-like, resilient wire coiled in the form of a helix and having its ends shaped to interlock with each other.

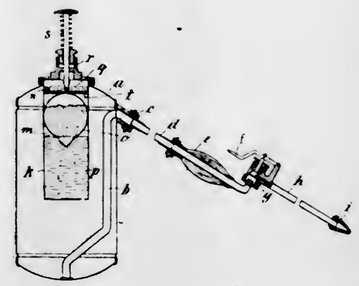
1,342,767. LUMINOUS INDICATING DEVICE AND PROCESS OF MAKING SAME. WILLIAM A. SCHLESINGER, Denver, Colo., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc., a Corporation of Colorado. Filed Jan. 25, 1917. Serial No. 144,385. Renewed Feb. 26, 1920. Serial No. 361,410. 10 Claims. (Cl. 91—68.)



1. The process of fixing a luminous material to a material consisting of coincidentally plasticizing a surface of said material and applying a binder thereto, and coating the material and binder with a luminous material.

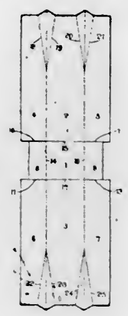
9. A luminous indicating device comprising a carrying sheet and luminous material homogeneously secured to the carrying sheet.

1,342,768. CHEMICAL FIRE-EXTINGUISHER. KARL SCHMIDT, Neumppin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 22, 1913. Serial No. 802,513. Renewed Nov. 14, 1919. Serial No. 338,115. 4 Claims. (Cl. 169—32.)



1. In a chemical fire extinguisher in combination with the vessel containing the extinguishing liquid, an inset vessel having gas escape openings near its one end, a perforated plate in said inset vessel dividing it into two chambers, said chambers containing chemicals adapted to react on each other and produce a gas, a readily broken plate closing tightly the said inset vessel and being arranged below said gas escape openings, and a bolt operable from outside, adapted to break through said readily broken plate.

1,342,769. PAPER BOTTLE. ANDREW J. SELZ, New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Sept. 26, 1917. Serial No. 193,344. 1 Claim. (Cl. 229—16.)

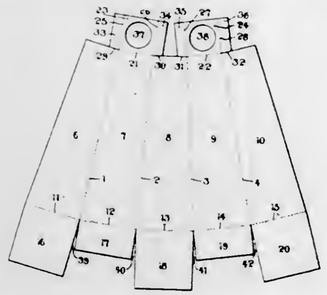


A paper bottle formed of a single blank having a rectangular bottom, two oppositely arranged vertical sides and two oppositely arranged vertical bottom flaps projecting from the bottom and two pairs of oppositely arranged vertical overlapping side members, and folds extending partway the length of the bottle to gradually decrease the size of the upper portion of the bottle to its top.

1,342,770. PAPER BOTTLE. ANDREW J. SELZ, New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Oct. 2, 1917. Serial No. 194,328. 2 Claims. (Cl. 229—17.)

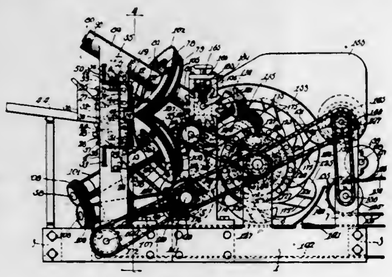
1. A tapered paper bottle comprising diverging side members, alternating separate full and half-size bottom

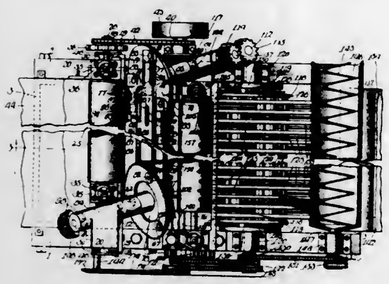
members and one or more top members, said top member or members having oppositely arranged depending flaps



overlapping the upper portions of their adjacent side members.

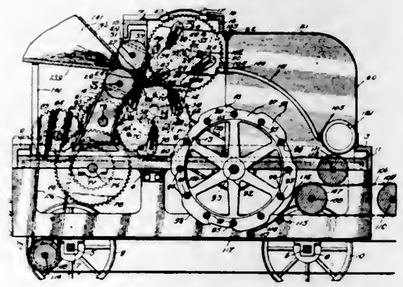
1,342,771. MACHINE FOR TREATING OR BREAKING AND SCUTCHING HEMP OR OTHER FIBROUS MATERIAL. WILLIAM A. SHELY, Chicago, Ill. Filed July 1, 1918, Serial No. 242,888. Renewed Aug. 16, 1919. Serial No. 318,014. 51 Claims. (Cl. 13—6.)





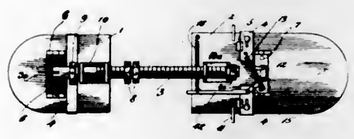
10. In a machine for treating fibrous material, the combination of a series of movable beater-bars adapted to be mounted in substantially parallel relation to each other, a rotative support upon which said beater-bars are pivotally mounted, said mounting controlling a movement of each beater-bar in a circuit oblique to itself, for breaking and scutching fibrous material, stalk-supporting means having a stalk-breaking edge adjacent to and facing toward the path of movement of said movable beater bars and adapted to support stalks of fibrous material in position to be engaged and broken and scutched between said stalk-supporting means and said movable beater-bars during the movement of the latter in successive order past said stalk-breaking edge of the stalk-supporting means, feeding means, for feeding stalks of fibrous material over said stalk-supporting means and into position to be engaged and broken by said movable beater-bars successively, and means for operating the movable beater bars to cause the same to be brought into breaking and scutching engagement with the stalks of fibrous material to be operated upon.

1,342,772. MACHINE FOR BREAKING AND SCUTCHING HEMP OR OTHER FIBROUS MATERIAL. WILLIAM A. SHELY, Chicago, Ill. Filed Dec. 13, 1918, Serial No. 266,570. Renewed Oct. 20, 1919. Serial No. 332,069. 35 Claims. (Cl. 13—18.)



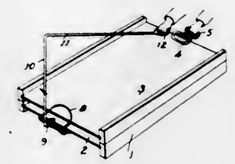
35. In a machine for treating fibrous material, the combination of beater-bar mechanism comprising an upper series and a lower series of beater-bars, upper rotative supporting-wheels located at opposite ends of the upper series of beater-bars, means for pivotally connecting the opposite ends of each of the beater-bars of said upper series with said upper rotative beater-bar-supporting wheels, lower rotative supporting wheels located at opposite ends of the lower series of beater-bars, means for pivotally connecting the opposite ends of each of the beater-bars of said lower series with said lower rotative beater-bar-supporting wheels, stationary break-bars mounted in position to support stalks of fibrous material in position to pass between and in engagement with the upper and lower series of beater-bars, means for feeding stalks of fibrous material between said stationary break bars and into position to be operated upon on opposite sides of said material alternately by the beater-bars, a scutching cylinder rotatively mounted rearward with respect to the beater-bars and adapted to scutch material passing rearward from said beater-bars, and means for operating the eccentric guiding wheels, rotative beater-bar-supporting wheels, and rear scutching cylinder.

1,342,773. SKATE. ZIGMUNT SLAWINSKI, Plainfield, N. J. Filed Oct. 22, 1919. Serial No. 332,497. 3 Claims. (Cl. 46—51.)



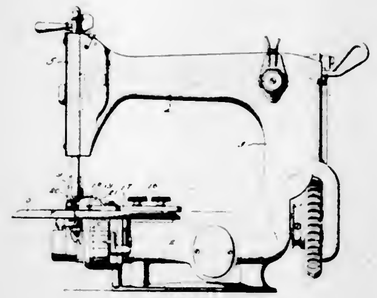
3. In a device of the class described, front and rear members, clamps on the front member slidable in pins thereon, a lever pivoted to one of said clamps, a handle on one end of said lever, a spring connecting said lever with said front member, a plurality of links connecting said lever with said other clamp, a second spring connecting said last-named clamp with said front member, and guides for said clamps.

1,342,774. TRAY-TURNER. ANDREW SODERBERG, Berkeley, Calif. Filed Nov. 21, 1919. Serial No. 339,536. 3 Claims. (Cl. 34—17.)



3. A tray reversing mechanism, comprising, in combination, a hand clamp adapted to be closed upon the edges of two trays by the grasp of the operator, and a clamp with fixed flaring jaws, provided with an overreaching extension, and adapted to be drawn into engagement with the trays by the same operator who manipulates said first mentioned clamp.

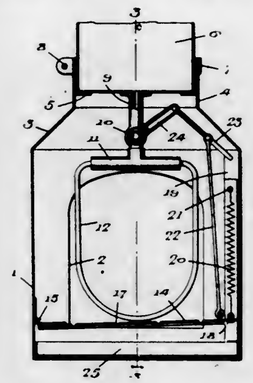
1,342,775. WORK-GUIDE FOR SEWING-MACHINES. FRANS T. STRÖBECK, Beachmont, Mass., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed June 6, 1918. Serial No. 238,553. 8 Claims. (Cl. 112—136.)



1. In a sewing machine for basting pile-fabric, the combination with sewing mechanism for forming a line of through-and-through stitches, and a presser-foot, of a fur-bending guide located mainly in advance of the presser-foot and operating to bend over the pile-fibers along an edge of the fabric and guide them into contact relation with the under surface of the presser-foot, said fur-bending guide so positioned laterally with relation to the stitching line that the stitches formed will bind down the bent over base-portions of the pile-fibers while leaving the remaining portions of the pile-fibers unconfined.

1,342,776. AUTOMATIC POULTRY-SPRAYER. OLAF E. SUNDRE, Arlington, Minn. Filed June 27, 1919. Serial No. 307,178. 2 Claims. (Cl. 119—159.)

1. A spraying device embodying a casing having openings for the passage of poultry or other stock, and having an upper neck, a tank removably fitted in said neck, said neck having seats therein for supporting the tank and clamping means for embracing and clamping the tank, a discharge pipe depending from the bottom of said



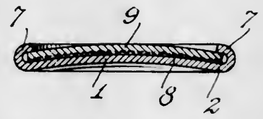
tank within the casing and having a valve and spray pipe removable with the tank when it is removed from said neck.

1,342,777. LUMINOUS INDICATING DEVICE. VICTOR C. THORNE, New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc., a Corporation of Colorado. Filed Feb. 5, 1917. Serial No. 146,644. 6 Claims. (Cl. 240—1.)



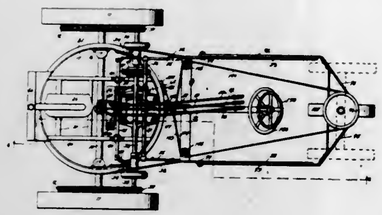
2. In a luminous indicating device, in combination, a luminous element and means for attaching said element to an object to be indicated, said element comprising a luminous material on a suitable carrier and a translucent facing over said material, said attaching means comprising an independent plate, a seat in the plate to receive securing means to attach the plate to an object to be indicated, the luminous element being secured to the plate, said securing means lying beneath the luminous element and covered thereby.

1,342,778. LUMINOUS INDICATING DEVICE. VICTOR C. THORNE, New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc., a Corporation of Colorado. Filed Mar. 16, 1917. Serial No. 155,168. 3 Claims. (Cl. 240—1.)



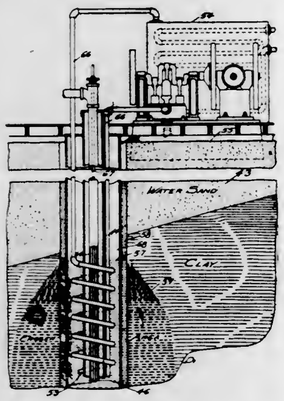
2. In combination in a luminous indicating device a button comprising a thin flexible receptacle, a luminous material in the receptacle, a translucent covering over the luminous material the whole forming a unitary, flexible device, an object to be indicated, a recess therein, the button being normally larger than the mouth of the receptacle, the receptacle being secured in the recess by flexing it through the mouth thereof.

1,342,779. TRACTION-ENGINE. SANFORD L. TIMMONS, Des Moines, Iowa. Filed Jan. 11, 1916. Serial No. 71,441. 15 Claims. (Cl. 180—26.)



1. In a device of the class described, a frame mounted on wheels, said frame being capable of longitudinal adjustment for varying its length, a source of power mounted on said frame, means for operatively connecting the source of power with certain of the wheels for imparting motion thereto, and a steering device capable of adjustment for accommodating said steering device to different lengths of the frame.

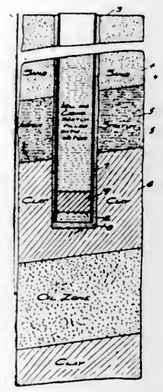
1,342,780. METHOD AND APPARATUS FOR SHUTTING WATER OUT OF OIL-WELLS. DWIGHT G. VEDDER, Bakersfield, Calif. Filed June 9, 1919. Serial No. 302,878. 11 Claims. (Cl. 166—1.)



1. A method for shutting water out of fluid wells, such as oil wells, which consists in freezing the water in the area between the water stratum and the fluid stratum to prevent the flow of water from said water stratum to said fluid stratum.

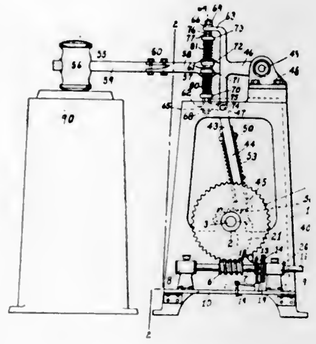
1,342,781. METHOD OF SHUTTING A DELETERIOUS FLUID OUT OF VALUE-PRODUCING WELLS. DWIGHT G. VEDDER, Bakersfield, Calif. Filed July 25, 1919. Serial No. 313,319. 5 Claims. (Cl. 166—21.)

1. The method of shutting water out of a fluid well comprising the insertion of a casing into the well, the insertion of a plug into the well casing between the water stratum and the value producing stratum, exhausting the water from the casing above the plug, inserting a non-freezing solution into the casing above the plug, inserting a freezing coil into the non-freezing solution, providing a refrigerating plant at the top of the well and connecting the plant to the freezing coil, circulating a freezing element through the refrigerating plant and through the freezing coil to temporarily freeze the area of the formation around the casing above the plug, removing the coil and freezing solution, removing the plug, exhausting the water from and around the casing below



the frozen area, inserting cement to form a permanent barrier around the casing below the frozen area, and removing the cement from the casing.

1,342,782. TRIP-HAMMER. ANTONIO VINCENT, Oakland, Calif. Filed June 4, 1919. Serial No. 301,731. 8 Claims. (Cl. 78—26.)

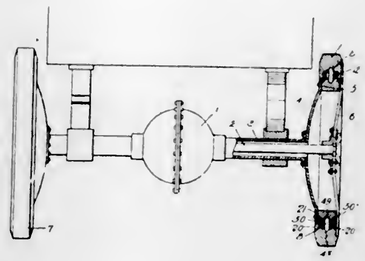


1. A trip hammer including a hammer, actuating means for said hammer, two cams for respectively engaging said actuating means to cause said hammer to strike a light blow or a heavy blow, means whereby one of said cams is shifted over the other cam for engaging said actuating means, and shifted off said other cam to enable said other cam to engage said actuating means, and means for operating said cams.

1,342,783. METHOD OF MANUFACTURING SOLID TOILET AND HOUSEHOLD SOAPS IN CAKE OR POWDER FORM. OTTO VOLZ, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 23, 1917. Serial No. 176,622. 3 Claims. (Cl. 87—16.)

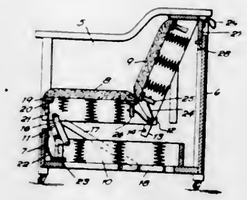
1. A cleansing composition consisting of a soap with which is incorporated a gelatinous mixture containing a gelatinized vegetable carbohydrate, a dilute alkali and a colloidal argillaceous absorbent.

1,342,784. WHEEL. JESSE C. WELCH, Tacoma, Wash. Filed Mar. 31, 1919. Serial No. 286,411. 2 Claims. (Cl. 64—81.)



1. A motor vehicle wheel of the class described, comprising a stationary internal ring provided with a central, peripheral groove and outwardly facing peripheral edge grooves, a rim rotatably mounted upon the internal ring having an internal, peripheral groove coöperatively registering with the first named groove to return antifriction members therein and having projecting flanges on the internal periphery extending into the peripheral edge grooves of the ring to retain the rim in functional position upon the ring.

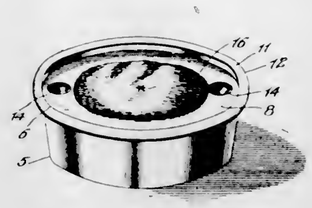
1,342,785. DAVENPORT. FRANK B. WERSEL, Jr., Cincinnati, Ohio. Filed May 8, 1918. Serial No. 233,199. 1 Claim. (Cl. 5—48.)



A daveno consisting of a frame, including a front board, a series of three sections, two of said sections being pivotally connected together and to the frame and adapted to permit the sections to be unfolded beyond the frame, for use as a bed, an additional section pivotally connected to one of said sections and adapted to be used as a portion of the bed when the two sections are moved to bed position, said first and second mentioned sections being adapted when folded to be used as a settee, a strut pivotally mounted on the front board between the ends thereof and adapted to be moved either to a substantially vertical or substantially horizontal position and a link operatively connected with said strut and said additional section and adapted when the sections are folded to move said strut to vertical position supporting one of the first mentioned sections and when the sections are unfolded to move the said strut to an inoperative horizontal position.

1,342,786. PLANT-IRRIGATING DEVICE. DAVID ROY WHITE, Chicago, Ill. Filed Dec. 14, 1918. Serial No. 266,717. 1 Claim. (Cl. 47—19.)

An irrigating device for plants including a water receiving chamber having a body section and a top section, the latter section being formed with an annular flange fitting within said body section and engaged by the wall thereof, the top section being centrally formed with an opening and additional diametrically opposed openings, an absorbent mat disposed upon said top section over the central opening and between the additional openings



and upon which a potted plant is adapted to be immediately supported, and water conducting means connected to said mat and extending into said chamber.

1,342,787. GRIP-FITTING FOR ELECTRIC CORD. ERNEST CANTELO WHITE, New York, N. Y., assignor to Duplexallite Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 26, 1918. Serial No. 251,395. 3 Claims. (Cl. 173—322.)



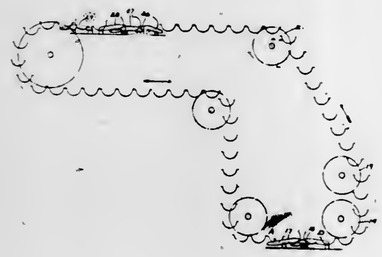
1. A grip fitting for electric cords including a yielding, elastic gripping ring having capacity for rolling movement on the cable and adapted to encircle the lighting cable snugly, a tapered sleeve encircling the gripping ring and crowding it into contact with the cable upon relative movement between the cable and sleeve thereby causing the ring to tend to roll on the cable and means independently functionally of said ring to secure the sleeve to the fixture and prevent the escape of the gripping ring.

1,342,788. DIRECTION-INDICATING DEVICE. THOMAS B. WRIGHT, Chicago, Ill., assignor to The Wright Traffic Signal Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1917. Serial No. 168,328. 6 Claims. (Cl. 177—337.)

1. In electrically operated and lighted apparatus for the purpose set forth, a movable indicator of red translucent material to serve both as a direction indicator and tail light for automobiles, a background for said indicator, a lamp behind said background, so that the indicator will appear red against a contrasting background in day time and also at night, means to support said background

and indicator in front of said lamp, electrically-operated mechanism to operate said indicator, and circuit-controlling devices to control the operation of said mechanism, said indicator being arrow-like in form and of sufficient size to serve as the tail light at night.

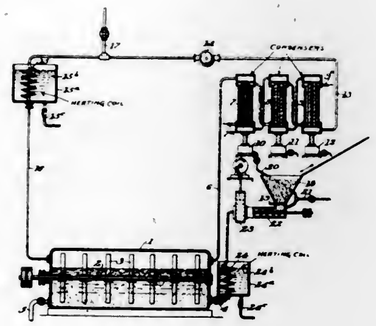
1,342,789. CONVEYER. JAMES A. ANDERSON, Morgan, Utah. Filed May 6, 1918. Serial No. 232,730. 5 Claims. (Cl. 193—7.)



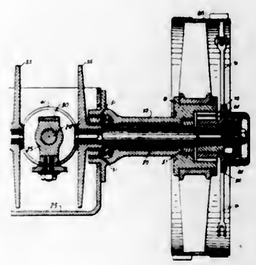
1. A conveyer comprising a succession of buckets pivotally attached to an endless chain or the like, said buckets having forwardly and rearwardly extending lips so arranged that the forward lip of each bucket lies or is lain upon by the rearwardly extending lip of the preceding bucket when the buckets are in equilibrium and in the same horizontal plane; a stud projecting from one side of each bucket below and rearward of the pivotal axis and a similar stud projecting from the other side of each bucket below but forward of the axis; cams in the paths of the studs over which they ride and whereby the buckets are rocked, the cam on one side arranged to rock the buckets in one direction, the other cam rocking them in the opposite direction, the cams being so positioned with reference to each other that each bucket is actuated by the second cam while the bucket immediately preceding it is in dislocation by the first cam.

1,342,790. PROCESS OF HYDROGENATING CARBON COMPOUNDS. FRIEDRICH BERGIUS, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 18, 1916. Serial No. 92,064. 7 Claims. (Cl. 196—26.)

5. A process for hydrogenating carbon compounds under high pressure and elevated temperature consisting in preparing a mixture of finely divided reactive coal with an auxiliary material which is liquid under reaction conditions and which under the influence of the hydrogen reaction atmosphere develops less heat than the raw material itself, introducing said mixture into a high pressure reaction vessel and bringing it into reaction with hydrogen under high pressure and elevated temperature and collecting the products of reaction.



1,342,791. TRACTOR. WALTER LIGHT BODMAN, Bromsgrove, England. Filed May 22, 1918. Serial No. 235,967. 4 Claims. (Cl. 74—26.)

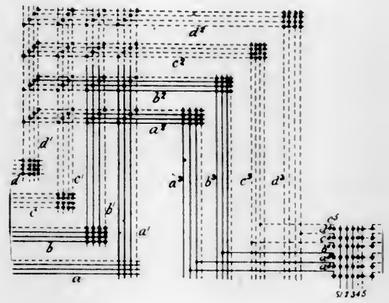


1. In a tractor, the combination with a wheeled chassis supporting a motor, the traction wheels of which are independently journaled upon the chassis, of a sectional drive axle, epicylic reduction gearing between each axle section and one of said traction wheels, said gearing including a spur gear eccentrically journaled upon an axle section, radially yielding connections between said eccentrically journaled gears and said traction wheels, and a divided friction drive between the sectional axle and motor.

1,342,792. TELEPHONE SYSTEM. LEONARD CHARLES BYGRAVE and THOMAS MONTAGU INMAN, London, England, assignors to The Relay Automatic Telephone Company, Limited, London, England. Filed July 25, 1917. Serial No. 182,670. 9 Claims. (Cl. 179—18.)

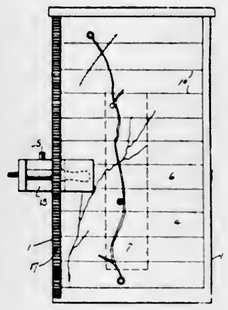
1. In an automatic telephone system having a final connecting group adapted to be operated by more than two digits, the combination of a group of trunks, a group of subscribers' lines, a plurality of greater than two of sets of intermediate lines arranged with the sets

in series between the trunks and subscribers' lines in the final connecting group and means for connecting a trunk



to a subscriber's line through lines of all the sets in series.

1,342,793. ROAD-INDICATING LOG. WILLIAM H. CASTNER, Seattle, Wash., assignor to Road-A-Meter Company, a Corporation of Montana. Filed Nov. 5, 1917. Serial No. 200,309. 2 Claims. (Cl. 40—41.)



2. In an apparatus for indicating the position of a vehicle relative to a point indicated on a road log map, the combination of a cabinet open on one face and containing road log maps, a rack bar in one side of the cabinet, a lamp holder comprising a frame bent at its front to engage the inner surface of the side of the cabinet and shaped to form a pointer, a shaft mounted in the frame, a pinion on the shaft to engage with the rack, means for rotating the shaft, a guide strip secured to the rear portion of the frame and slidably mounted in a groove formed on the rear of the cabinet, a plunger mounted in the rear of the frame and bearing on the rear of the cabinet, a spring interposed between the frame and the head of the plunger to normally hold the pinion in mesh with the rack, and means for rotating the shaft.

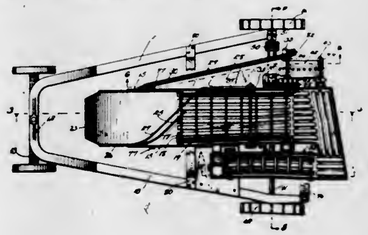
1,342,794. END EXTENSION TO AUTOMOBILE-WINDSHIELDS. WILLIAM J. CHASE, Bellingham, Wash. Filed Sept 15, 1919. Serial No. 323,935. 1 Claim. (Cl. 296—84.)

In a vehicle windshield end extension in combination, a three-rail frame of a single metal sheet comprising upper, lower and front-side rails, said side rails having holes therethrough and extended forward and bent over



on a longitudinal line and the outer edges of said end rails shaped into channels, and a pane of glass fitted to and retained in said channels.

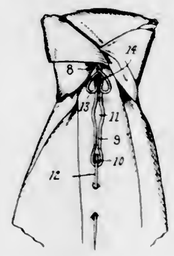
1,342,795. BEET-HARVESTER. PETER J. CLEEREMAN, Kenosha, Wis. Filed Mar. 15, 1919. Serial No. 282,936. 7 Claims. (Cl. 55—107.)



1. A beet harvester including a plow, a conveyer mechanism extending rearwardly from the plow, a rearwardly extending throat at one side of the conveyer mechanism, said throat being taperingly reduced toward its rear end, means for guiding beet tops into said throat upon movement of beet and tops on the conveyer, and means for cutting beet tops at the rear end of the throat.

4. A beet harvester including a plow, a conveyer mechanism extending rearwardly from the plow, a rearwardly extending throat at one side of the conveyer mechanism, said throat being taperingly reduced toward its rear end, a rod connected with the forward end of the upper portion of the throat and extended obliquely over the conveyer mechanism for guiding beet tops to the throat, and means for cutting beets at the rear end of the throat.

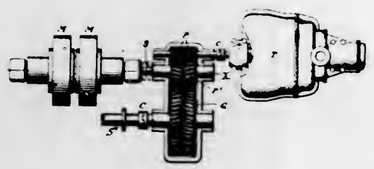
1,342,796. NECKTIE AND PIN HOLDER. THOMAS F. CONNORS, Bridgeport, Conn., Filed Nov. 28, 1919. Serial No. 341,083. 3 Claims. (Cl. 2—84.)



1. A necktie holder formed of a single piece of wire, the intermediate part of which is bent and secured together, and including a yieldable socket through which a

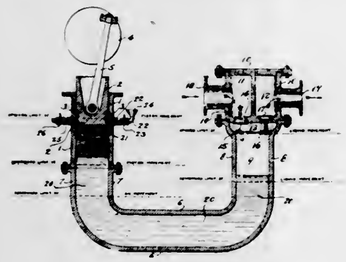
button may be inserted, a downwardly extended loop including two spaced parallel yieldable side members to receive a scarf pin and between which it may be held, and two upwardly and outwardly disposed arms over which the necktie is folded.

1,342,797. SYSTEM OF MARINE PROPULSION. ANGELO CONTI, Washington, D. C. Filed Dec. 9, 1915. Serial No. 65,953. 10 Claims. (Cl. 172—8.)



7. A power plant for propulsion of boats, comprising two propulsive units, each including a turbine, a propeller shaft, a speed-reducing gear train including a turbine gear, a propeller drive gear and an intermediate gear, and a dynamo-electric machine connected with said intermediate gear; and electric equipment associated with the dynamo-electric machines of said two propulsive units and including a storage battery, and electric connections and switches between said dynamo-electric machines and said battery, adapted, at the will of the operator, to connect the dynamo-electric machines in driving and driven relation one to the other, in battery-charging relation or in motor driving relation, and to reverse the direction of either dynamo-electric machine when operatnig as a motor.

1,342,798. PUMP. DUDLEY FARRAND, Newark, N. J. Filed Oct. 23, 1917. Serial No. 198,008. 2 Claims. (Cl. 103—75.)

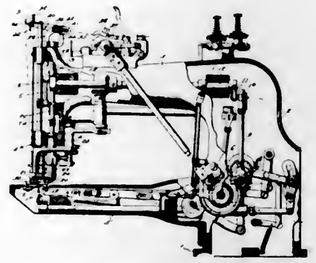


1. In a device for pumping corrosive fluids, a U-shaped tubular member, a piston adapted to be reciprocated in one vertical arm of said U-shaped tubular member, a casing provided with an intake well and an outlet well connected with the free end of the opposite vertical arm of said U-shaped tubular member, said casing having an intake valve closed port leading from said intake well into the end of said U-shaped tubular member, said casing having furthermore an outlet valve closed port leading from the end of said U-shaped tubular member into said outlet well, a volume of liquid of greater specific gravity than the corrosive fluid to be pumped within said U-shaped tubular member adapted to be reciprocated therein by the suction and force strokes of said piston for the purposes described, a volume of oil interposed between the inner end of said piston and the adjacent end of the volume of said liquid, and means for introducing said oil beneath said piston, the length of said first mentioned vertical arm of said U-shaped tubular member being such that the downward limit of movement of said oil when reciprocated by the piston is maintained within said vertical arm of said U-shaped tubular member.

1,342,799. FUEL AND THE METHOD OF PRODUCING THE SAME. GEORGE H. FRITZSCHE, Brooklyn, N. Y., assignor to Taplex Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1919. Serial No. 272,853. 1 Claim. (Cl. 44—1.)

A fuel consisting of a mixture of pulverized charcoal, asbestos fiber, lime and sodium hydroxid mixed in substantially the following proportions: charcoal 94½–91½ parts, asbestos fiber 2–5 parts, lime 1½ parts, sodium hydroxid 2 parts.

1,342,800. THREAD-CONTROLLING MECHANISM FOR SEWING-MACHINES. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Aug. 10, 1917, Serial No. 185,446. Divided and this application filed May 9, 1918. Serial No. 233,415. 6 Claims. (Cl. 112—242.)



1. Thread measuring mechanism for sewing machines comprising, a needle-bar, a thread-engaging device carried thereby, a work-engaging element, a slotted member operatively connected thereto, a slotted and pivotally mounted thread-engaging mamber with which said thread-engaging device coöperates to pull needle-thread from the supply, and a pin adjustably mounted in the slot of one of said members and entering the slot of the other of said members.

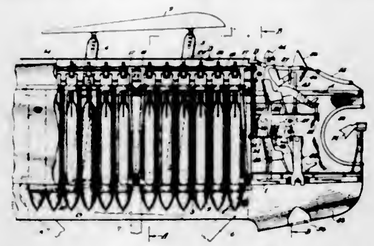
1,342,801. PROCESS OF PRODUCING METAL BODIES. CHARLES L. GEBAUER, Cleveland, Ohio. Filed May 17, 1917. Serial No. 169,176. 5 Claims. (Cl. 29—148.)



1. The process of producing metallic bodies which consists of molding a finely disintegrated metallic constituent of high melting point to the desired form, applying a layer of a constituent of lower melting point to the surface of the body and subjecting the composite body thus formed to a temperature sufficient to melt the constituent of the lower melting point.

1,342,802. ARTILLERY-AIRPLANE OR THE LIKE. PAUL GERLI and OSCAR A. ROSS, New York, N. Y. Filed June 15, 1918. Serial No. 240,264. 2 Claims. (Cl. 244—1.)

1. In an artillery airplane, a body, airplane surfaces attached thereto adapted to maintain said body in aerial flight, a projectile housing attached to said body, one or more shrapnel shells contained within said housing, means for releasing said shells from said housing, means for



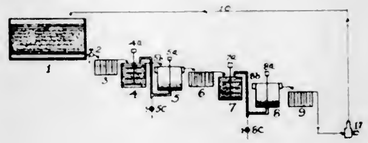
igniting the time fuse of said shell as said shell is ejected from said housing, and means mounted on the body for adjusting the time of a fuse on a housed shell.

1,342,803. ART OF COLORING MOVING-PICTURE FILMS. EDWARD S. GILLESPIE, Detroit, Mich. Filed Feb. 9, 1918. Serial No. 216,410. 7 Claims. (Cl. 101—375.)



1. A printing roller for coloring picture films, said roller having circumferentially disposed printing faces and grooves separating said printing faces, and individual printing pads affixed on said faces.

1,342,804. METALLURGICAL PROCESS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Dec. 21, 1916. Serial No. 138,273. Renewed Sept. 2, 1919. Serial No. 321,260. 4 Claims. (Cl. 204—15.)



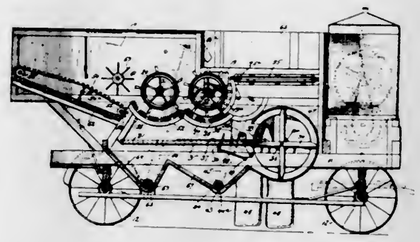
1. A metallurgical process which consists in agitating an electrolyte containing ferric iron with a sulfid reducing agent practically free from iron, continuously withdrawing a portion of the mixture of sulfid and electrolyte and separating the sulfid from the electrolyte, and returning the reduced electrolyte to the electrolyzer and the copper sulfid to the agitator.

1,342,805. ASH-TRAY. JOHN P. GRIFFIN, New York, N. Y. Filed May 27, 1919. Serial No. 300,020. 1 Claim. (Cl. 131—51.)



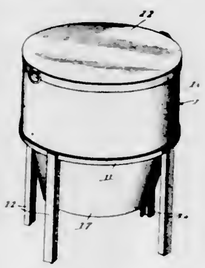
An ash tray comprising a base receptacle having upwardly curved sides merging into the bottom thereof, a glass lining conformingly engaged within said base receptacle, and a body conformingly engaged within said lining and projecting above the top of the side flanges thereof, said body being provided centrally with an opening extending to said lining and terminating short of the top of the body whereby the top of the opening will be closed, said body being somewhat stella form whereby to provide a plurality of points engaging the inner periphery of the lining, the periphery of said body between said points being spaced from the lining to provide recesses, and said body being provided between said points with outwardly flaring recesses communicating with said opening.

1,342,806. THRESHING-MACHINE. JOHN E. GROSS, Walla Walla, Wash. Filed Aug. 19, 1918. Serial No. 250,495. 5 Claims. (Cl. 130—27.)



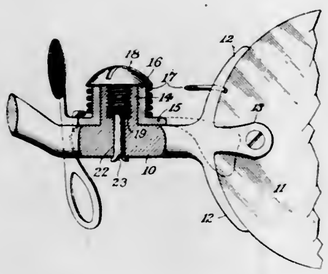
1. In a threshing machine, a threshing means, a rattle-rake to the rear of the threshing means, a vibratory sieve beneath the threshing means, a pair of grain collecting troughs beneath the sieve, a wall between the troughs extending from the forward trough with an upward inclination, a wall extending from the rear trough with an upward inclination and terminating to the rear of the sieve, an inclined floor beneath the rattle-rake and having its lower end positioned to discharge on the rear end of the sieve, and means for directing an air blast in the direction of the threshing means and also beneath and past the threshing means between the latter and the sieve, and also beneath the sieve in the direction of the inclined walls.

1,342,807. TUB. TILLIE HARRINGTON, Minneapolis, Minn. Filed May 27, 1919. Serial No. 300,028. 1 Claim. (Cl. 68—31.)



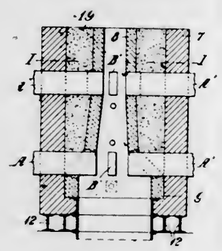
In combination, an annulus of substantially L shaped formation in cross section, legs supporting the annulus, a wash tub made of separable sections, the upper section being of uniform diameter and resting upon said annulus, said upper section having an opening in the bottom thereof, the lower section being smaller than the upper section and suspended from the bottom of the latter through the opening therein, said lower section having a flange resting upon the bottom of the upper section and disposed in the space between the legs of the annulus, and the cover for the upper section.

1,342,808. EYEGLASS-MOUNTING. CHARLES M. HAYNES, Chillicothe, Ohio. Filed Dec. 17, 1919. Serial No. 345,618. 6 Claims. (Cl. 88—50.)



6. In an eyeglass mounting, a bridge provided with a hole extending through the bridge and having its upper portion threaded, a finger lever, a retaining screw extending through the lever and threaded in said upper portion of the hole, the lower portion of the screw being smaller than the said upper portion of the hole and adapted to be spread at its lower end to lock it in place.

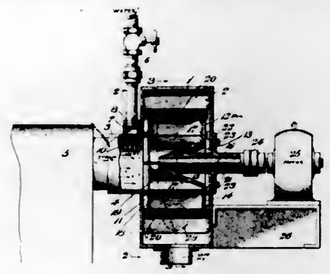
1,342,809. METHOD FOR THE HEATING OF MATERIAL OR THE PERFORMANCE OF CHEMICAL PROCESSES IN ELECTRICAL FURNACES, TOGETHER WITH APPARATUS INTENDED THEREFOR. TORSTEN ANDREAS FRITHIOFSSON HOLMGREN, Stockholm, and CARL THEODOR THORSSELL, Gottenborg, Sweden, assignors to Aktiebolaget Kvofveindustrl, Gottenborg, Sweden, a Limited Company. Filed July 24, 1919. Serial No. 313,048. 7 Claims. (Cl. 204—64.)



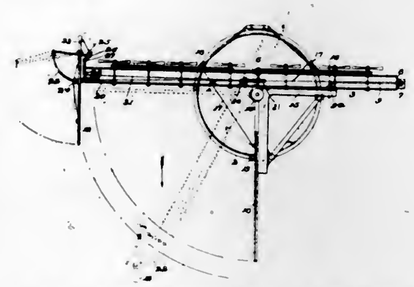
1. Method for heating of material in electric resistance furnaces, for example for the performance of chemical reactions, characterized by the fact that the heating is produced by means of alternating current which is supplied by two or more current circuits which in regard to phase are displaced in relation to one another at an angle which is equal, or approximately equal, to 180°, or 360°, divided by the number of current circuits.

1,342,810. CONDENSER AND SEPARATOR. CHARLES W. HOTTMANN, Philadelphia, Pa., assignor, by direct and mesne assignments, to The Hottmann Machine Company, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 26, 1918. Serial No 264,153. 6 Claims. (Cl. 261—75.)

1. In a machine of the character stated, a condenser casing having a steam inlet and a discharge port, means to inject water into said steam inlet, and a fan mounted to revolve within said casing having an opening in proximity to said steam inlet and provided with means to deflect the incoming vapors toward its blades.

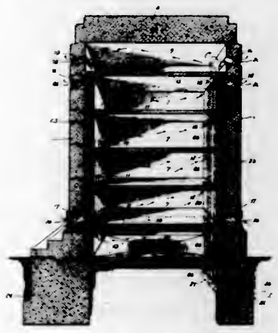


1,342,811. AIR-MOTOR. OLAF L. HOWE, Missoula, Mont. Filed Jan. 24, 1918. Serial No. 213,554. 7 Claims. (Cl. 170—38.)



1. In an air motor, a pivoted carrier, a rotary vane on said carrier tending, under the force of wind pressure to swing said carrier, a rudder always parallel to the wind, and means connected to said carrier and said rudder tending through the instrumentality of said rudder to maintain said carrier and vane head on to the wind, said connection permitting relative movement between said carrier and said rudder.

1,342,812. MAUSOLEUM CONSTRUCTION. WILLIAM E. HUGHES and JAMES B. KING, Clyde, Ohio, assignors to The Hughes Granite Company, Clyde, Ohio, a Corporation of Ohio. Filed Nov. 21, 1917. Serial No. 203,265. 2 Claims. (Cl. 72—7.)



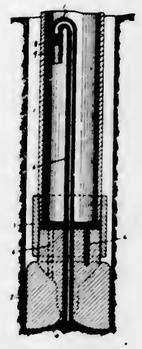
1. In a mausoleum, the combination with suitable side and end walls, a series of inclosed receiving crypts, and a roof, said series of crypts being removed from said walls to form an air space therebetween, said latter space communicating with the atmosphere near its top and bottom, a main drain disposed beneath the ground and around the mausoleum structure, a drainage duct connecting the bottom of said wall space with the said main drain, a drainage duct connecting the bottom of each crypt with a trap drain positioned below the ground and between the foundation walls, and a duct connected with said trap drain leading downward and outward for discharging its drainage into the ground at the rear of the mausoleum structure and at a suitable distance below the surface of the ground.

1,342,813. SCREENING DEVICE FOR OIL-WELLS. SIDNEY H. HUSTON, Houston, Tex. Filed Apr. 2, 1919. Serial No. 286,941. 4 Claims. (Cl. 166—5.)



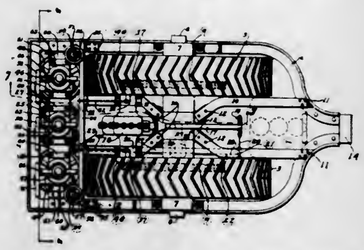
1. A device of the character described, including a foraminated tubular screen, a closure for the lower end thereof, provided with an opening, a valve controlling said opening, a perforated plate secured in the upper end of said screen, a screen covering said perforated plate, said plate having a central opening therethrough, alined with the opening in said lower end closure, a pipe passing through the upper opening and alined with the lower opening for forcing water through said valve, and coarse aggregate filling said screen.

1,342,814. SAMPLE-TAKING DEVICE. SIDNEY H. HUSTON, Houston, Tex. Filed June 27, 1919. Serial No. 307,089. 2 Claims. (Cl. 255—61.)



1. The combination with a drill bit, having a central bore, of a stem to which said bit is attached, a tubular retainer whose upper end is formed into a downwardly curved neck and whose lower end is fitted through said bore, and a valve controlling said neck.

1,342,815. TRACTOR ROTARY PLOW. SLEEPER T. INGRAM, St. Louis, Mo., assignor of thirty per cent. to James E. Newell, St. Louis, Mo. Filed Nov. 23, 1918. Serial No. 263,866. 14 Claims. (Cl. 97—51.)



1. The combination of a motor, a vertical miller shaft adapted to be actuated thereby, a cutter-head thereon, a drive shaft extending from the said motor, a sprocket-wheel thereon, a shaft and sprocket-wheel thereon adjacent said drive shaft, a sprocket-chain connecting the said sprockets, a worm wheel driven by the said last mentioned shaft, and a worm slidably keyed to the said miller shaft.

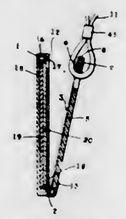
3. The combination of a motor, a vertical miller shaft adapted to be actuated thereby, a cutter-head thereon, a drive shaft extending from the said motor, a sprocket-wheel thereon, a shaft and sprocket-wheel thereon adjacent said drive shaft, a sprocket-chain connecting the said sprockets, a worm wheel driven by the said last mentioned shaft, a worm slidably keyed to the said miller shaft, and means for raising and lowering the said miller shaft.

1,342,816. SPARK-GAP. OREN W. KINLEY, Des Moines, Iowa. Filed July 8, 1919. Serial No. 309,402. 3 Claims. (Cl. 175—183.)



1. An improved spark gap comprising a base member of insulating material, two disk-shaped metal terminal members on top of the base member, a strip of transparent heat resisting insulating material on top of the disk-shaped terminals, and hollow rivets passed through the insulating members and the terminal members for firmly and permanently uniting them and for providing means whereby the spark gap thus formed may be electrically connected to a conductor wire and a spark plug.

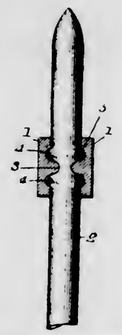
1,342,817. LOCKET. FREDERICK A. KOHLHEPP, Newark, N. J., assignor to Larter & Sons, Newark, N. J., a Firm composed of Frederick H., Harry C., and Halsey M. Larter. Filed July 19, 1917. Serial No. 181,465. 9 Claims. (Cl. 40—152.)



1. In a device of the character described, a pair of hingedly connected members one of which is adapted to detachably receive a disk, and suspending means for supporting both said disk and said hingedly connected mem-

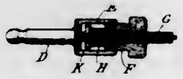
bers and connecting said disk and hingedly connected members when they are released and separated from each other, said suspending means passing between said hingedly connected members when they are closed together.

1,342,818. METALLIC STRUCTURE. MAURICE LACHMAN, New York, N. Y., assignor to Universal Electric Welding Company, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1915. Serial No. 45,588. 4 Claims. (Cl. 189—82.)



1. A metallic structure consisting of intersecting members welded together at their intersection, said structure comprising three members one of which is disposed between and welded to two other members crossing the same and parallel to one another, said pair of crossing members having ribs or ridges near their edges and having their ribbed faces presented to one another but not substantially welded to the intermediate member, the upset or extruded metal of the welded union being wholly located in the pockets formed between the said ribs or ridges and the point of weld.

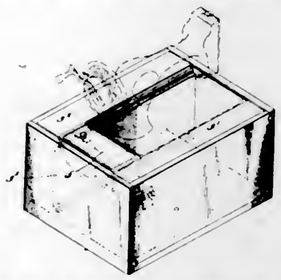
1,342,819. CONNECTOR-PLUG. CLAIR DENNISON LAKE, Endicott, N. Y., assignor to The Tabulating Machine Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 15, 1919. Serial No. 271,192. 5 Claims. (Cl. 173—269.)



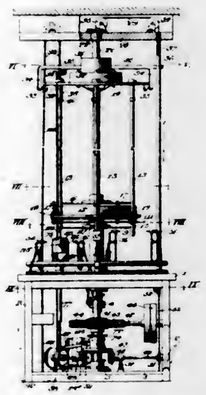
5. In a switch plug in combination, a plug having an interiorly threaded socket portion, a connector threaded to engage the socket portion and having a bore tapered at the inner end, a hollow collapsible interiorly threaded gripping member having a tapered end to be engaged by the tapered end of the connector portion, and having a head end with a reduced aperture to engage the metallic conductors of the wire said gripping member when collapsed and moved longitudinally by the threaded engagement of socket and conductor serving to clamp the interior threads into the insulation of the wire to likewise clamp the reduced apertured end on the wire itself and to clamp the wires projecting through the apertured end firmly between the said end and the end of the plug socket.

1,342,820. SEWING-MACHINE CABINET OR CASING. ALBERT EDWARD LEE, Yoker, Scotland, and EDMUND GEORGE MILSTED, Epsom, England, assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 13, 1920. Serial No. 365,448. 4 Claims. (Cl. 45—120.)

4. The combination of a casing including sectional walls and a sewing machine having a bed-plate hinged to a section of one of said walls, the sections of said walls being foldable to cover said machine when out of use and one of said sections being hinged to an adjacent section and replaceable by the sewing machine bed-plate when turned to bring said machine into position for use.

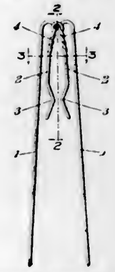


1,342,821. MACHINE FOR MAKING HOLLOW GLASS BODIES. GUSTAVE A. LEIMAN, New York, N. Y. Filed May 9, 1918. Serial No. 233,432. 33 Claims. (Cl. 49—7.)



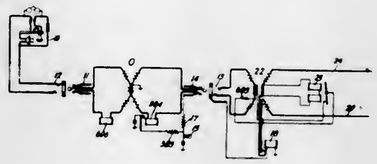
1. A machine of the character described comprising a vertically movable glass tube carrier and progressively operating means for heating the tube, drawing the tube to form a bulb and neck thereon, blowing said bulb, sealing said neck and tube and cutting the neck from the tube.

1,342,822. HAIRPIN. MEYER LIEBERS, Yonkers, N. Y., assignor, by direct and mesne assignments, of one-half to Herbert Cole, Brooklyn, N. Y., and one-half to William Russell Osborn, New York, N. Y. Filed Jan. 16, 1917. Serial No. 142,587. 2 Claims. (Cl. 132—22.)



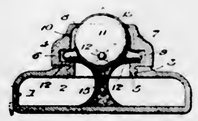
2. The herein described hairpin comprising four principal parts, namely, a pair of main prongs and a pair of grippers all formed from a single piece of wire of uniform thickness, the gripper members lying within the crotch portion of the main prongs and having right and left twists of loop portions of the wire and the gripper members being spaced from each other at varying distances between their points and the crotch.

1,342,823. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL and EDGAR H. CLARK, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 2, 1917. Serial No. 199,886. 41 Claims. (Cl. 179—27.)



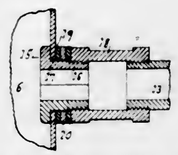
1. In a telephone exchange system, a plurality of groups of automatic switches, a series of allotter switches, there being an allotter switch individual to each group, means to operate one of said allotter switches to successively bring into service desired ones of the automatic switches controlled by it, means to operate said allotter switches in succession, and means to reoperate the first allotter switch of said series upon the completion of the operation of the last allotter switch of said series.

1,342,824. STAMP-MOISTENER. CHARLES MANVILLE PRATT, Towanda, Pa. Filed Dec. 10, 1919. Serial No. 343,798. 12 Claims. (Cl. 91—67.4.)



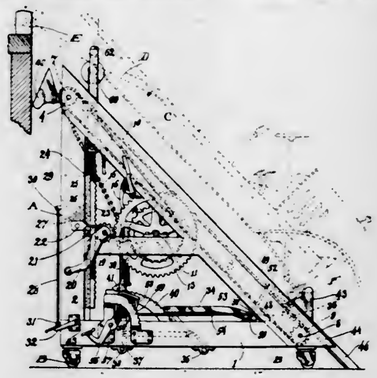
4. In a stamp moistener, a liquid container, having a screwthreaded opening therein, a hollow cap having screwthreads for engaging the screwthreads of the liquid container, an opening in said cap, a resilient ball mounted within the cap and projecting through the opening therein, flexible means on the ball for retaining the same in the hollow cap and flexible means covering said ball and serving to feed liquid thereto.

1,342,825. PIPE-FITTING. HERMAN SAUCKE, New York, N. Y. Filed June 30, 1919. Serial No. 307,554. 8 Claims. (Cl. 285—52.)



1. In a pipe fitting the combination with a receptacle inaccessible from the exterior provided with an aperture, of a sectional flange nipple having a stem projecting from the aperture, said flange forming an annular member to coact with the inner wall of the receptacle, and a coupling engaging the stem for locking the nipple to the receptacle.

1,342,826. LOADING AND UNLOADING DEVICE. JOSEPH SCHMIEDERER, St. Louis, Mo. Filed Apr. 15, 1918. Serial No. 228,539. 8 Claims. (Cl. 214—1.)



5. A loader for chassis, comprising a sloping frame carried on rollers; longitudinal guide-ways formed along the face of the slope; horizontal transverse shafts journaled in the frame, one at the top and one at the bottom of the slope; sprockets rigidly mounted at the ends of the shaft and in alinement with said guide-ways; elevator chain belts passing over said guide-ways and sprockets, said belts carrying a plurality of traveling elevator books upon their upper surfaces; and means for propelling said elevator chains along their guide-ways and locking same.

1,342,827. FOOD PREPARATION AND PROCESS OF MAKING SAME. ALEXANDER SCHWARCMAN, Buffalo, N. Y., assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 4, 1919. Serial No. 287,422. 6 Claims. (Cl. 99—13.)

1. An edible emulsion comprising particles of two or more fatty matters of different melting points individually distributed in a single body of an emulsifying agent.

4. The process of making edible compositions which comprises individually emulsifying an oil and a fat in the same body of emulsifying agent.

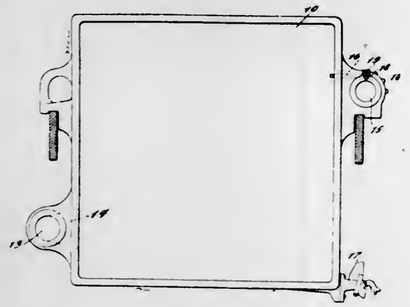
1,342,828. EXTENSIBLE MAST. BENJAMIN F. SEYMOUR, Denver, Colo., assignor to The International Army and Navy Equipment Company, Denver, Colo., a Corporation of Colorado. Filed Dec. 8, 1915. Serial No. 65,725. 2 Claims. (Cl. 189—14.)



1. An extensible mast comprising a longitudinally immovable lower section composed of a plurality of rotary

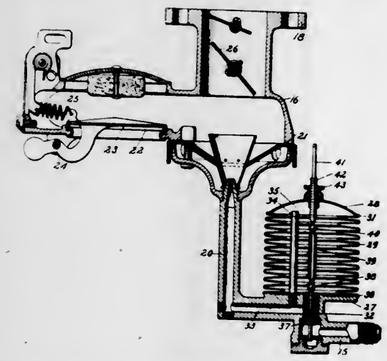
members, a longitudinally movable upper section composed of a plurality of non-rotary members, a longitudinally movable intermediate section composed of a plurality of rotary members, the members of said sections having a coöperative male and female screw-threads adapted to effect the movement of each longitudinally movable section by the rotation of the members of a longitudinally immovable section and to lock the rotary members of the intermediate section against independent rotation at a determinate point in the longitudinal movement of said section, a carrier on the upper section, and means for rotating the members of the lower section.

1,342,829. FILTER-PRESS. HARRY T. SHRIVER, Llewellyn Park, West Orange, N. J. Filed Sept. 22, 1919. Serial No. 325,366. 4 Claims. (Cl. 210—195.)



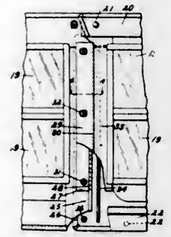
1. In a plate and frame filter press, a feed channel connected to each of the frames, a wash channel connected to each alternate plate, each plate having an outlet and a cock to control the same, and automatic means to prevent the flow of fluid from the alternate plates to the wash channel while permitting the flow of fluid from the wash channel to the alternate plates.

1,342,830. HYDROCARBON-MOTOR. LYLE K. SNELL, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 1, 1916. Serial No. 134,513. 8 Claims. (Cl. 158—36.)



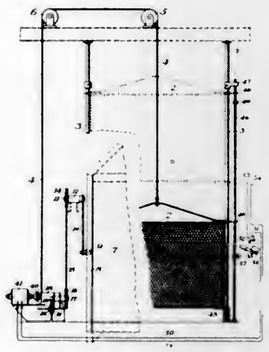
1. A carbureter comprising a mixing chamber, a fluid fuel chamber having a stand pipe therein, means for supplying fuel to said mixing chamber from said fuel chamber, and means controlled by the pressure about the exterior wall of said fuel chamber for regulating to a constant pressure the flow of fuel to said mixing chamber from said fuel chamber through said stand pipe.

1,342,831. MOTOR-VEHICLE. LYLE K. SNELL, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 26, 1916. Serial No. 138,785. 6 Claims. (Cl. 296—138.)



3. In a vehicle, a pair of curtains adapted to have their adjacent sides overlap, a turned back flap secured to one of said curtains along one only of its side edges, an overlapping flap secured to the other curtain along a seam substantially removed from the edge of its overlapping side and the side edge of the curtain to which it is secured, and complementary fastening devices secured to each of said flaps.

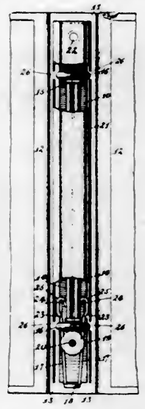
1,342,832. GATE-OPERATING DEVICE FOR SHAFTS. RICHARD H. STEVENS, Philadelphia, Pa. Filed Nov. 7, 1918. Serial No. 261,516. 5 Claims. (Cl. 187—54.)



1. In a door operating mechanism for shafts or elevators, a door arranged to normally move to its closed position, a drum, a flexible connection between the drum and the door, said drum being arranged to move the door to its open position, an electric motor for actuating the drum, clutch connections between the drum and the motor, an automatic member in position for throwing the clutch into engagement, an actuating device on the cage or elevator for actuating the clutch connections to throw in the clutch when the cage is passing said member, an electric switch under the control of the operator for closing the circuit through the motor, an automatic means arranged to be actuated by the door when it moves to its open position to open said switch to break the circuit to the motor, subsanially as described.

1,342,833. LOOSE-LEAF BINDER. FRANK SUTHERLAND, Brooklyn, N. Y. Filed Jan. 23, 1919. Serial No. 272,613. 5 Claims. (Cl. 129—24.)

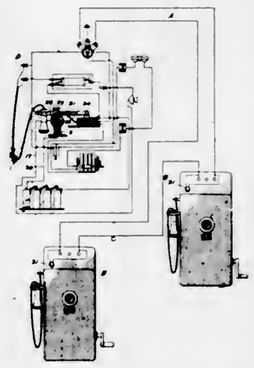
5. A loose-leaf binder mechanism comprising a supporting plate, two oscillating rods mounted upon said plate and provided at their ends with coöperating half rings, an operating member formed of wire slidably mounted upon said supporting plate and bent intermediate its ends to form a thumb-engageable portion, the remote extremities of said wire operating member extending beneath the half rings, and adapted to force the same into closed position, and means for moving said half rings into their open positions.



1,342,834. PROCESS FOR FIXING NITROGEN. CARL THEODOR THORSSELL and HARALD LUDVIG REINHOLD LUNDÉN, Gottenborg, Sweden, assignors to Aktiebolaget Kvafveindustri, Gottenborg, Sweden. Filed July 9, 1919. Serial No. 309,739. 1 Claim. (Cl. 23—13.)

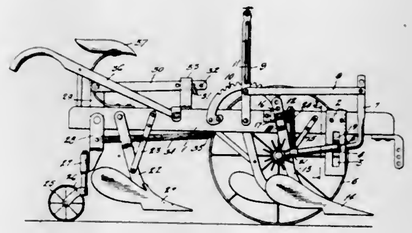
In a process for fixing nitrogen and forming cyanids, in which nitrogen is caused to react upon a heated mixture of carbonaceous material and alkali forming metal compounds, in the presence of finely divided metal, preparing said metal by reducing compounds containing no other elements than the metal, hydrogen, oxygen, carbon, and nitrogen, the reduction being carried on at a temperature lower than 550° C. and the metal then being introduced immediately into the zone of reaction.

1,342,835. ELECTRICAL DETECTING-MACHINE. EMERY L. WELCH, Lima, Ohio. Filed Jan. 19, 1918. Serial No. 212,646. 3 Claims. (Cl. 179—28.)



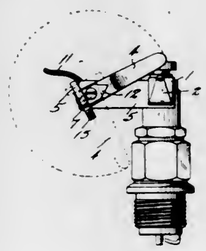
1. A device of the class described, comprising a standard provided at its upper end with a cylindrical portion, said cylindrical portion provided on its inner face with a plurality of long and short insulations and long and short metal surfaces, a rotary hub in said cylindrical portion, a spring pressed pin in said hub and being adapted to engage said insulated and uninsulated portions of the cylindrical portion, a telephone receiver hook, and means connecting said telephone receiver hook and said hub portion whereby when the hook is moved movement will be imparted to the hub thereby causing the contact pin to ride over the insulated and uninsulated surfaces of the cylindrical portion.

1,342,836. PLOW. WILLIAM WENDTLAND, Sr., Shiner, Tex. Filed May 19, 1919. Serial No. 298,045. 5 Claims. (Cl. 97—36.)



1. In a plow of the character described, a beam, an arch axle supporting the front end of the beam, means for swinging the axle to raise and lower the beam, ground wheels supporting the axle, right and left turning shovels on opposite sides of the beam, a rocker device transversely of the beam and resting on the axle, and equalizing springs extending from the beam to the axle.

1,342,837. IGNITION DEVICE. ROBERT N. WOOD, Dallas, Tex. Filed Apr. 7, 1919. Serial No. 288,072. 1 Claim. (Cl. 175—183.)



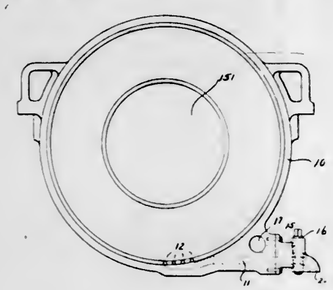
A device of the character described, comprising a metallic strip provided at one end with an aperture for receiving the binding post of a spark plug, said strip extending radially from the spark plug and having its material at its free end bent downwardly at substantially a right angle thereto for forming a substantially U-shaped keeper, the inner arm of the substantially U-shaped keeper being spaced from the spark plug, an insulating arm arranged between said inner arm and spark plug and secured to the inner arm for support, a switch blade pivotally connected near its outer end with the insulating arm and having its free end adapted for movement into and out of the substantially U-shaped keeper, said keeper being adapted to engage the switch blade when within the same for holding it against displacement, and means connected with the switch blade for turning it upon its pivot so that it may be moved out of the keeper and downwardly in proximity to the outer metallic member of the spark plug.

1,342,838. PENCIL AND IGNITER. LOUIS V. AARONSON, Newark, N. J. Filed Nov. 19, 1919. Serial No. 339,009. 4 Claims. (Cl. 67—7.1.)



1. In a device of the class described, a fuel chamber, a member forming a closure for said chamber and having a striker mounted thereon and extending into the fuel chamber, a member mounted on the fuel chamber, and a pyrophoric element mounted on said last referred to member.

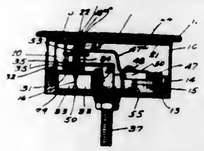
1,342,839. FILTER. EARL FRANK ATKINS, Arlington, N. J., assignor to Harry T. Shriver, West Orange, N. J. Filed June 23, 1919. Serial No. 306,037. 3 Claims. (Cl. 210—195.)



1. A filter press having alternate filter plates and filter frames with filter cloths between said plates and frames, means for supplying the solution to be filtered to said filter press, each of said plates having an outlet leading to the exterior of the plate, a closed conduit extending along said plates and frames, said outlets and said conduit being normally out of communication, and a multiple way valve on each plate adapted when in the first position, to open the corresponding outlet to the exterior of the plate and to prevent communication between said outlet and said conduit, and when in the second position, to close said outlet to the exterior of the plate and to connect said outlet with said conduit, and when in the third position, to close said outlet and to prevent communication between said outlet and said conduit.

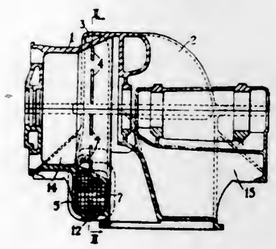
1,342,840. DEVICE FOR INSERTING AND ADJUSTING BEARINGS FOR STAFFS, SPINDLES, AND THE LIKE. JOHN L. AXEN, Detroit, Mich., assignor to National Gauge & Equipment Company, La Crosse, Wis., a Corporation of Wisconsin. Filed June 12, 1919. Serial No. 303,783. 5 Claims. (Cl. 29—86.1.)

1. In an apparatus for adjusting a bearing of the character described, a support to hold the bearing carrying member, a tool support, a pivotal connection between said tool support and said first mentioned support, said tool support having a threaded opening in line with said bearing when said tool support is in its operative position,



and a tool having a threaded engagement with said opening so that its end may be caused to engage and adjust the bearing.

1,342,841. FEED-WATER HEATER. KARL BAUMANN, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited, a Company of Great Britain. Filed Oct. 21, 1916. Serial No. 127,007. 6 Claims. (Cl. 60—67.)

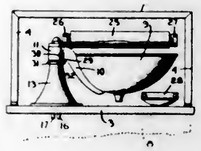


1. In combination with a steam turbine, a feed water heater and a steam belt surrounding the turbine cylinder for conducting steam to said heater.

1,342,842. RESISTANCE ELEMENT. THEODORE W. CASE, Scipio, N. Y. Filed Mar. 15, 1920. Serial No. 365,898. 4 Claims. (Cl. 219—76.)

1. A resistance element formed of a compound of thallium and bromin.

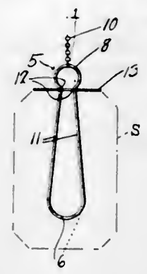
1,342,843. WASHBASIN FOR MOTOR-PROPELLED VEHICLES. WARD I. CLIFFORD, Malden, Mass. Filed Jan. 20, 1917. Serial No. 143,497. 1 Claim. (Cl. 4—1.)



In combination with a motor propelled vehicle comprising a body, a motor and a water cooling system for said motor, a basin cabinet, a basin movably secured within said cabinet and adapted to be withdrawn without detachment therefrom, a cold water reservoir, means automatically operable when the basin is partially withdrawn successively to connect the basin with said water cooling system and with said cold water reservoir and to close said connections when the basin is fully withdrawn.

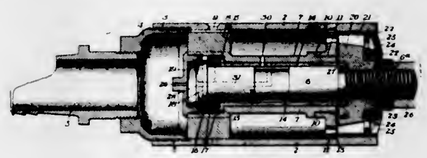
1,342,844. SOAP-HANGER. WALTER G. DAVIS, Miami, Fla. Filed June 16, 1919. Serial No. 304,668. 1 Claim. (Cl. 40—10.)

A soap hanger comprising a member made of a single strand of resilient wire, the medial portion of which is bent to form an eye from which are continued outwardly two divergently held arms each arm ending in a semi-



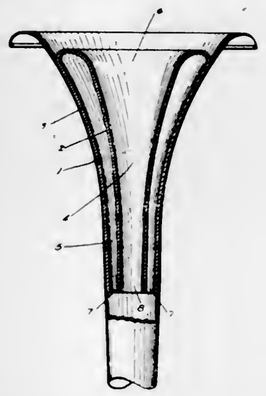
circular hook, and a slotted disk held on said arms to hold said arms in contracted relation whereby said hooks are held one on the other.

1,342,845. TURBINE. WILLIAM S. ELLIOTT, Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 9, 1918. Serial No. 257,513. 6 Claims. (Cl. 253—3.)



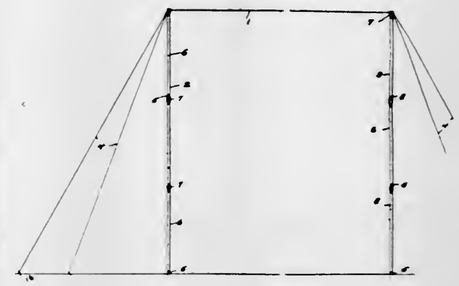
1. In a turbine, a turbine shaft having a threaded portion, a wheel seated on said shaft, and a shroud for said wheel removably seated on said threaded portion, together with a tool carrier also secured to said threaded portion and locking the shroud on said shaft, substantially as described.

1,342,846. CORNET-MUTE. PASQUALE SANTA EMMA, Venice, Calif. Filed Apr. 29, 1919. Serial No. 293,416. 1 Claim. (Cl. 84—125.)



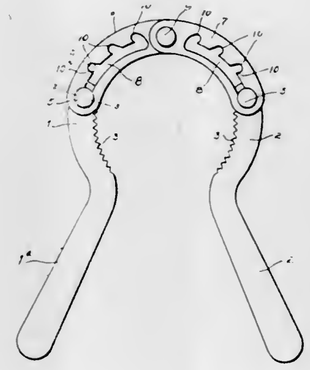
A mute for a cornet or other musical instruments of the horn variety, comprising double annular walls, providing a round central passage and an annular chamber surrounding the central passage, the central passage being flared at one end, and the annular wall of the central passage and the annular wall of the annular chamber being joined adjacent the outlet of the central passage forming a closure for the annular chamber.

1,342,847. KNOCKDOWN MAST. GEORGE F. GRAY, Washington, D. C. Filed Feb. 5, 1919. Serial No. 275,202. 5 Claims. (Cl. 189—23.)



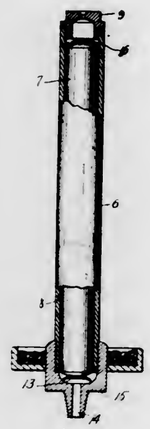
1. A knock-down mast for wireless telegraphy comprising a plurality of interchangeable sections, ground-engaging means at one end of each of said sections, and means at the other end of each section for securing guys, antennæ and the like thereto.

1,342,848. CAP-REMOVING TOOL. CHARLES L. JOHNSON, Springfield, Ohio. Filed Nov. 4, 1919. Serial No. 335,662. 6 Claims. (Cl. 81—3.1.)



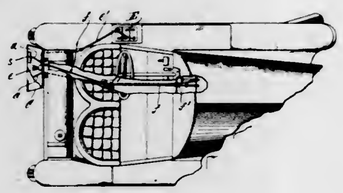
6. In a device of the character described, a pair of lever gripping members, each member comprising a curved serrated portion and a handle portion, a fixed headed stud upon each of said gripping members, a pair of links pivoted together, each link having a slotted opening to receive the headed stud of its corresponding gripping member, the outer wall of each slot having a plurality of recesses, the walls of which are inclined substantially in the direction of the swinging line of said stud when the pressure is applied to said handle.

1,342,849. VAPORIZER-STRAINER FOR LAMPS. ADOLPH G. KAUFMAN, New York, N. Y. Filed July 15, 1919. Serial No. 310,929. 3 Claims. (Cl. 67—37.)



1. A vaporizer strainer comprising a cylinder of fibrous material held uniform in diameter, and a plurality of wires interwoven in said fibrous material throughout its length, for the purpose set forth.

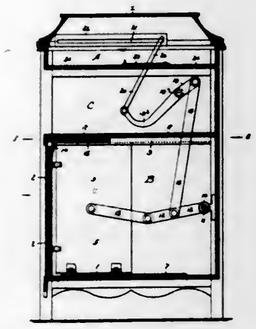
1,342,850. AUTO-LICENSE-INDICATING DEVICE. HARRY A. KLEINE, Jersey City Heights, N. J. Filed Dec. 10, 1919. Serial No. 343,982. 2 Claims. (Cl. 116—45.)



1. An auto-license indicating device of the character designated, comprising a casing, illuminating means therein, a stenciled license plate formed with rear danger and direction indicator openings and positioned in the front of the casing, and a transparent back plate also positioned in front of the casing, and formed with colored portions coincident with the danger and direction indicators in the license plate, together with spring shutters in the casing arranged to normally cover the direction indicators, and positive means for optionally and individually retracting said shutters from the vehicle seat, for the purpose described.

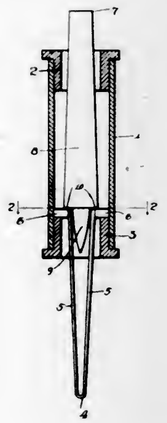
1,342,851. CABINET. CLAYTON B. LANDIS, Philadelphia, Pa. Filed Jan. 29, 1920. Serial No. 354,828. 5 Claims. (Cl. 45—52.)

5. The combination, in a cabinet, of a swinging door, a member to which said door is hinged, means for retracting and projecting said member, a slotted guide plate mounted upon a fixed portion of the cabinet frame, and a pin projecting from said door and engaging the



slot in said guide plate, whereby said door is caused to swing open as said member is retracted and is caused to swing closed as said member is projected.

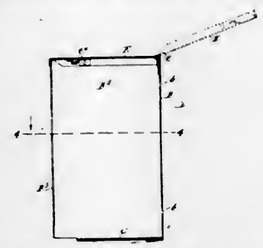
1,342,852. BUSHING-REMOVER. HARRY DANIEL LINDENMUTH, Fleming, Pa. Filed July 19, 1919. Serial No. 312,039. 1 Claim. (Cl. 29—88.2.)



A bushing remover comprising a U-shaped spring provided with outwardly extended projections; and a punch including a body having a reduced extension defining a shoulder, the extension being received within the spring, and the shoulder engaging one end of the spring.

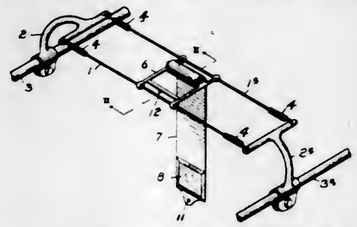
1,342,853. HOLDER. EDGAR MCCALLUM, Boston, Mass., assignor of one-half to John A. Sherman, Worcester, Mass. Filed May 10, 1917. Serial No. 167,700. 1 Claim. (Cl. 211—29.)

The holder above described comprising a rear wall, side walls and a flooring, said rear wall being adapted to serve as a means of permanent attachment and said side walls serving to hold an article supported by the flooring from lateral displacement, the outer edges of said side walls being bent inwardly to engage the front edges of the articles contained therein and said rear wall having a cover hinged thereto adapted normally to rest upon said side walls to close the top of said holder, said cover hinge being bent downwardly to engage the top



edge of said article whereby the front face thereof will be exposed for inspection.

1,342,854. ADJUSTABLE MIRROR ATTACHMENT. EDWARD W. MCCARROLL, Pittsburgh, Pa. Filed Oct. 16, 1919. Serial No. 331,094. 5 Claims. (Cl. 45—97.)



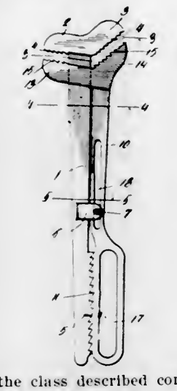
5. A mirror attachment for automobiles and the like, including in combination a pair of clamps adapted to be attached one to each side of the top of an automobile, two tracks extending parallel to each other in substantially a horizontal plane and having their ends attached to said clamps, a frame mounted for movement upon said tracks, a retracting roller attached to one side of said frame, a flexible member having one end attached to said roller, a mirror detachably connected to the other end of said flexible member, and means for holding said mirror adjacent to said frame when the mirror is not in use.

1,342,855. WELL-DRILLING TOOL. WILLIAM AUGUSTUS MCCAUSLAND, Pittsburgh, Pa. Filed Dec. 14, 1917. Serial No. 207,162. 10 Claims. (Cl. 255—28.)



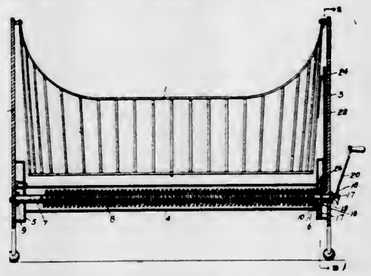
1. A well drilling tool, including a jar and a bit, and an interposed connecting stem, filled with a heavy substance as lead, to constitute a relatively short connection but having requisite weight.

1,342,856. WRENCH. ALBERT MCDOWELL, Los Angeles, Calif., assignor to Thomas Bradley, Los Angeles, Calif. Filed Oct. 16, 1919. Serial No. 330,991. 1 Claim. (Cl. 81—131.)



A wrench of the class described comprising two shank members, each having a head at one end, one head being apertured to receive the shank of the other member, said aperture being flared on its outer edge to permit lateral movement of the shank slidable therein, said heads each having angularly disposed gripping jaws, those of one head coöperating with those of the other, teeth carried by the opposed faces of said jaws, and inclined in opposite directions, said shanks having inclined teeth on their inner edges at their rear ends to interlockingly engage to hold the jaws in gripped relation, one of said shanks being longitudinally slotted intermediately of its ends, and the other having spaced lugs straddling the slotted shank, a removable screw connecting said lugs and mounted in the slot whereby the shanks are permitted to move longitudinally and are yet held against disconnection.

1,342,857. SPRING-MOTOR MECHANISM. FRANK MAGIDSON, Uniontown, Pa. Filed Oct. 16, 1919. Serial No. 331,138. 8 Claims. (Cl. 185—38.)

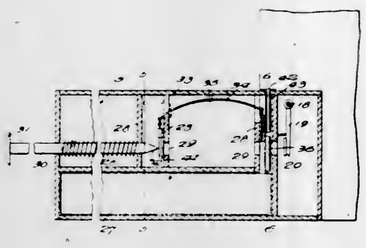


1. An escapement mechanism for a spring impelled ratchet wheel, comprising a pair of pivoted ratchet pawls having opposed surfaces, a pivoted arm upon which one of said pawls is mounted and pawl reversing means mounted on said arm and bearing against said surfaces and adapted to shift to opposite sides of the pivots of said pawls as said arm is oscillated.

1,342,858. NEWSPAPER-VENDING MACHINE. WILLIAM HOLLIDAY MILES, Cleveland, Ohio. Filed Feb. 1, 1918. Serial No. 214,865. 2 Claims. (Cl. 194—37.)

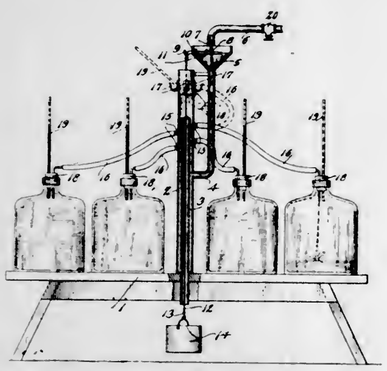
1. In a vending machine, a casing, article and coin control compartments in said casing, a discharge chute for the article compartment, means for releasably supporting articles in said article compartment, a plunger slidably mounted in the coin control compartment engageable with said releasing means, a plurality of apertured pieces arranged in the coin control compartment, a

lever pivotally mounted in said coin control compartment, a shutter pivotally connected to one end of said lever and arranged over the opening in one of said pieces, and coin receiving means carried by the remaining end



of said lever for moving said shutter upwardly to expose the opening in the adjacent piece upon the insertion of a coin, said receiving means being engaged by the plunger subsequent to the receiving of a coin for releasing the same and permitting its return to normal position.

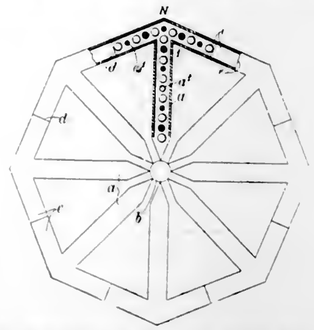
1,342,859. LIQUID-DISTRIBUTING APPARATUS. GEORGE MOORE, Joplin, Mo. Filed May 17, 1917. Serial No. 169,369. 2 Claims. (Cl. 226—93.)



1. In liquid distributing apparatus, the combination of a main delivery pipe having a maximum elevation of contained liquid for delivery, supply means for the main delivery pipe, means for cutting off the supply when the maximum elevation is reached, and discharge tubes connected with the delivery pipe at different elevations and having their free ends movable from points below to points above the maximum elevation.

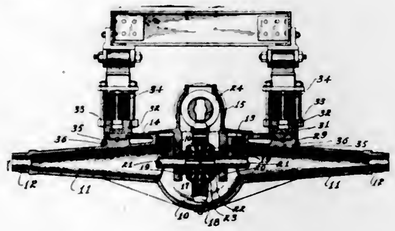
1,342,860. APPARATUS FOR FACILITATING THE LANDING OF AIRCRAFT. WILLIAM MORTIMER and FREDERICK POTTEN, Dover, England. Filed May 13, 1919. Serial No. 296,954. 4 Claims. (Cl. 177—351.)

1. An apparatus of the character described, a plurality of radial troughs arranged to indicate the directions of a compass, a plurality of sets of electric bulbs in each trough, each set of bulbs having a different color and being of different candle-power, the bulbs in the several sets being alternately arranged with the bulbs in the other sets so that each set of bulbs is capable of illuminating the



trough for substantially its entire length, and means to supply current to each set of bulbs in proper order.

1,342,861. AXLE-HOUSING AND FIFTH-WHEEL CONSTRUCTION FOR MOTOR-TRUCKS. WALTER S. MORTON, Harrisburg, Pa. Filed Oct. 30, 1915. Serial No. 58,826. 5 Claims. (Cl. 180—42.)

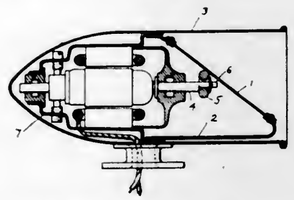


1. An axle housing for motor vehicles, having an enlarged middle portion to house parts of the driving gearing for the axle and having reduced substantially tubular extensions on opposite sides of said enlarged portion to house the axle, and a fifth wheel ring supported on said substantially tubular extensions at diametrically opposite points on said ring and connected at intermediate points with said enlarged portion.

1,342,862. CLEANSING AND POLISHING COMPOSITION. ANDREW MUHA, Cleveland, Ohio. Filed Oct. 24, 1919. Serial No. 332,905. 2 Claims. (Cl. 134—24.)

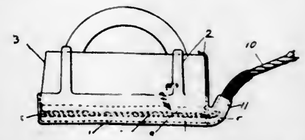
1. The herein described composition for cleansing and polishing various surfaces comprising a heavy oil, water, spirits of turpentine, alcohol, oil of citronella, and butter of antimony.

1,342,863. SOUNDING SIGNALING DEVICE. JOHN P. NIKONOW, New York, N. Y. Filed Aug. 6, 1919. Serial No. 315,731. 1 Claim. (Cl. 116—142.)



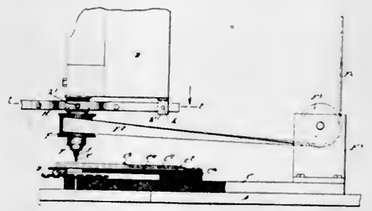
In a sounding signaling device, the combination with a tubular housing closed on one end and open on the other, an electric motor located near the closed end inside and coaxially with said housing, an eccentric on the end of the shaft of said motor, and a sounding diaphragm fastened inside of said housing near its open end at a sufficiently large angle with the shaft of said motor so as to be actuated by said eccentric.

1,342,864. ELECTRIC SADIRON. JOHN P. NIKONOW, New York, N. Y. Filed Aug. 6, 1919. Serial No. 315,732. 4 Claims. (Cl. 219—25.)



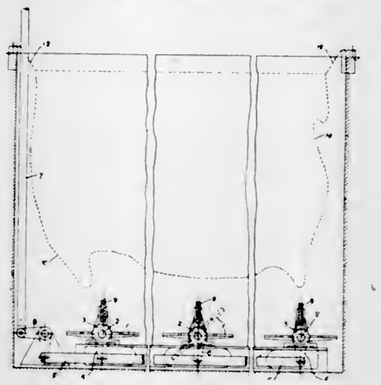
1. In an electric sad iron, the combination with a case, electric heating device inside of said case adapted to heat the outside surface of the case, and clamping means adapted to attach said case to an ordinary sad iron, said clamping means being in the form of extending lugs on the case suitable for supporting said case on an inverted position, when used without sad iron.

1,342,865. COMBINED PUNCH AND COUNTERSINKING MACHINE. WILLIAM R. ORMES, Waltham, Mass. Filed Apr. 16, 1919. Serial No. 290,485. 6 Claims. (Cl. 29—26.)



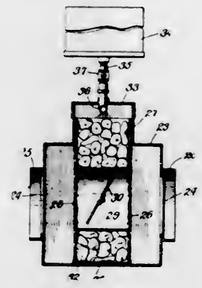
1. In a machine of the kind described, a vertically-reciprocating head, a punch mounted therein, a countersink mounted concentric with said punch to be reciprocated independently thereof, and means for rotating said countersink.

1,342,866. LIMING AND OTHER TANNING OPERATIONS UPON HIDES OR SKINS. CLEMENT MACE OWEN, Warrington, England. Filed Aug. 11, 1919. Serial No. 316,920. 2 Claims. (Cl. 259—100.)



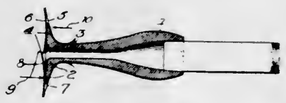
1. A tank vat for liming hides or skins, having a plurality of sets of paddles arranged in the lower portion thereof, the paddles of each set being alined, a shaft supporting the paddles of each set, means for simultaneously and similarly operating all of said shafts to reciprocate the paddles, and means having a fixed relation to each shaft to direct the liquid disturbed by the paddles upwardly in the vat.

1,342,867. SMOKE-REDUCER. LOUIS PAUL, Spokane, Wash., assignor of one-half to John Satre, Spokane, Wash. Filed Jan. 18, 1917. Serial No. 143,175. Renewed Nov. 13, 1919. Serial No. 337,888. 1 Claim. (Cl. 183—4.)



A device for the purpose set forth comprising a casing having an inlet and outlet, a reticulated holder disposed across the casing between and in spaced relation to the inlet and the outlet, and bodily insertible in and removable from the casing, a flue within said holder having open ends located within the walls of the holder and arranged to register with the inlet and outlet, and a body of granular material within the holder around the flue.

1,342,868. CIGARETTE-HOLDER. LAWRENCE V. REDMAN, Evanston, and ARCHIE J. WEITH and FRANK P. BROCK, Chicago, Ill., assignors to Redmanol Chemical Products Company, Chicago, Ill., a Corporation of West Virginia. Filed Mar. 10, 1919. Serial No. 281,760½. 3 Claims. (Cl. 131—10.)

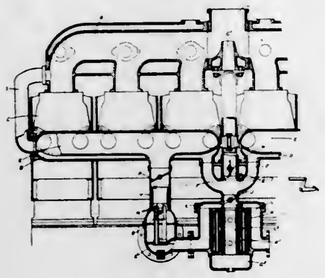


3. A cigarette-holder, comprising a tubular stem formed with a contracted portion of small diameter adapted to fit between the lips and with a thin circular flange of large diameter symmetrically disposed with relation to said stem and adapted to fit between the front surfaces of the teeth and the lips, said holder being less than three times as long as the diameter of said flange, and said flange being approximately three times the diameter of the contracted portion of said stem.

1,342,869. MEANS FOR HEATING THE CHARGES IN INTERNAL-COMBUSTION ENGINES. HARRY RALPH RICARDO, London, England. Filed Nov. 11, 1919. Serial No. 337,195. 7 Claims. (Cl. 123—119.)

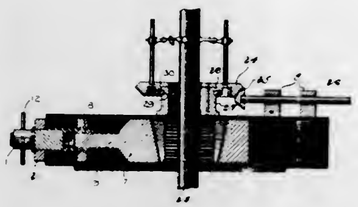
1. In an internal combustion engine employing a relatively heavy fuel such as paraffin the combination of an induction pipe, a choke tube through which combustible mixture is delivered into the induction pipe, means for delivering fuel into the choke tube, a throttle valve controlling the delivery of combustible mixture into the cylinders and situated adjacent to the choke tube, an exhaust pipe, a jacket chamber against the wall of the induction pipe, a by-pass leading from the exhaust pipe to the jacket chamber, a passage leading from this jacket chamber back into the exhaust pipe at a point toward the delivery end of the latter, a second passage leading from

the jacket to a point adjacent to the choke tube where this passage is provoked with means for delivering gases into the choke tube, means for controlling the flow of



products of combustion which pass from the exhaust pipe through the jacket and respectively through the two passages leading therefrom, and means for simultaneously operating the throttle as set forth.

1,342,870. PIPE-PULLER. SOSTHENE ROBICHAUX and CHARLES PAGGI, Saratoga, Tex. Filed Mar. 15, 1919. Serial No. 282,840. 1 Claim. (Cl. 255—35.)

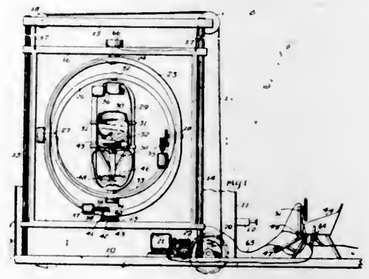


A device of the character specified comprising a frame adapted to seat over a well casing and having an opening through which the casing may extend, means for clamping the casing to hold it from rotation and to prevent downward movement thereof, and means for engaging the sections, said means comprising a gear wheel having an opening through which the casing extends and mounted to rotate on the frame, posts on the gear wheel at the opposite sides of the opening, each post carrying means for gripping the casing and the said gripping means coöperating to grip the casing to the wheel when the wheel is turned, said clamping means comprising slips, and holder sections for the slips, one of the sections having an opening in which the other is movable, the sections having vertically extending undercut grooves and the slip sections having ribs fitting the grooves, the adjacent ends of the slip sections and the holder sections being inclined to limit the downward movement of the slip sections with respect to the holder sections and to tighten the ribs in the grooves.

1,342,871. ORIENTATOR. WILLIAM GUY RUGGLES, New York, N. Y. Filed Apr. 16, 1917. Serial No. 162,589. 38 Claims. (Cl. 244—1.)

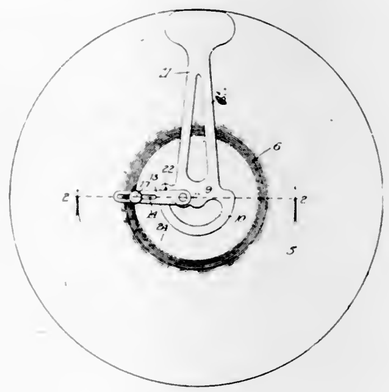
1. In a device of the class described, the combination of a support for a person, an organization of pivotal means for mounting said support so as to have universal articulation in three planes at right angles to each other about a relatively fixed point of reference and so as to permit the positioning of said support in any plane passing through said fixed point and mechanism acting on said organization for moving said support means into any desired position about said point of reference.

35. In the art of training those involuntary natural faculties which are responsive to nerve impulses from that part of the semi-circular canal system which indicates to a person a correct conception of his position in space when his head is in an inverted position, in distinction from the similar space senses active when the person is in a normal upright or horizontal position, the process



which includes the step of intentionally causing the person to move bodily and repeatedly into a substantially inverted position while being held in uniform spaced relation to a fixed point and causing the person, when so inverted, to express by an overt and voluntary act some evidence of his appreciation of his abnormal position.

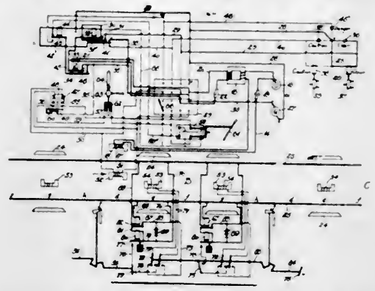
1,342,872. DEVICE FOR FORMING GROOVES IN SOUND-RECORDS. HENRY K. SANDELL, Chicago, Ill., assignor to H. S. Mills, Chicago, Ill. Filed Feb. 26, 1919. Serial No. 279,247. 5 Claims. (Cl. 33—27.)



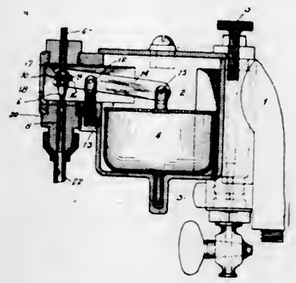
1. In a device of the class described, supporting means capable of resting upon the surface of a sound record provided with a sound recording groove, and cutting means attached to said supporting means and movable in an arcuate path to form a surface groove in the record and connecting with the groove thereof.

1,342,873. TRAIN-CONTROLLING APPARATUS. DANIEL HERBERT SCHWEYER, Easton, Pa. Filed Dec. 21, 1917. Serial No. 208,269. 20 Claims. (Cl. 246—45.)

20. In combination, a vehicle having electrically operated devices to be operated selectively according to track conditions, a plurality of coils located at intervals along the track together with means for reversing the direction of flux through said coils under different track conditions, and a vehicle circuit including circuit changing means for said devices, said circuit having a coil inductively related to said first mentioned coils as the vehicle moves past them, whereby said circuit changing means is differently influenced under different track conditions.

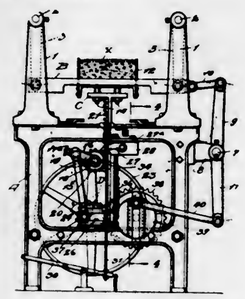


1,342,874. FLOAT-VALVE MECHANISM. FRANK L. SESSIONS, Lakewood, Ohio. Original application filed Jan. 17, 1914, Serial No. 812,702. Divided and this application filed May 4, 1917. Serial No. 166,356. 9 Claims. (Cl. 137—1.)



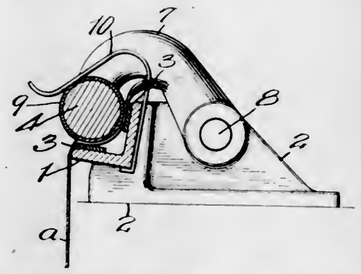
1. In a carbureter, a float chamber and a float therein, two fuel supply connections to said float chamber, a valve for each of said fuel supply connections controlling the admission of fuel to the float chamber, an equalizing lever between said valves, and operating connections between said float and said equalizing lever whereby the valves are operated by movements of the float transmitted through said operating connections and said equalizing lever.

1,342,875. CAKE-CUTTING MACHINE. JAMES T. SHILLITO, St. Louis, Mo., assignor to Loose Wiles Biscuit Company, Kansas City, Mo., a Corporation of Missouri. Filed Aug. 12, 1919. Serial No. 317,022. 15 Claims. (Cl. 146—12.)



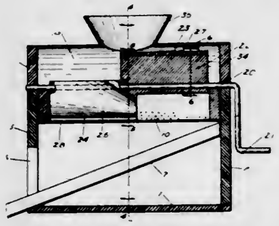
6. A cutting machine, comprising a swinging, sharp edged cutter that travels back and forth through the work and severs the work with a draw cut at each stroke of said cutter, a work support, and means for moving said work support toward said cutter during each stroke of the cutter so as to feed the cutter through the work.

1,342,876. WARP-CLAMP. JOHN B. SINDERSON, Rockford, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Aug. 22, 1917. Serial No. 187,521. 6 Claims. (Cl. 139—93.)



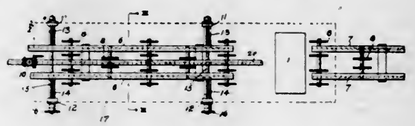
1. A warp clamp having, in combination, supporting means, a clamp member connected to said supporting means and having two spaced friction surfaces, arms pivoted to the supporting means, a clamp member carried by said arms and arranged to be swung into and out of operative relation to the first mentioned clamp member, the second mentioned clamp member being loosely connected to said arms so as to be free to seat itself against said surfaces, and means for pressing said clamp members together.

1,342,877. TOMATO-MASHER. ERMOGENE SPIRITO, Pasadena, Calif. Filed July 25, 1919. Serial No. 313,361. 1 Claim. (Cl. 146—9.)



A tomato masher comprising a box, a curved foraminous tray positioned within the box, a shaft rotatably mounted and positioned in operative relation to the tray, mashing blades mounted upon the shaft and adapted to mash tomatoes through the foraminous tray, said blades having channels for directing the tomatoes from both ends of the tray toward the center.

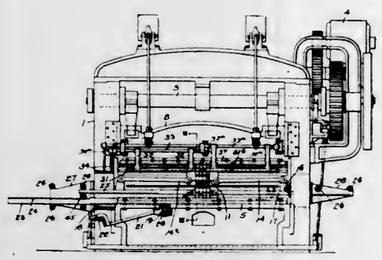
1,342,878. PUNCHING MACHINERY. GEORGE P. THOMAS, Glenshaw, Pa. Filed Aug. 30, 1918. Serial No. 252,070. 1 Claim. (Cl. 164—116.)



The combination of a punch for perforating structural plates, a feeding table on one side and a receiving table on the other side of said punch for supporting a plate while being punched, guides arranged one on each side

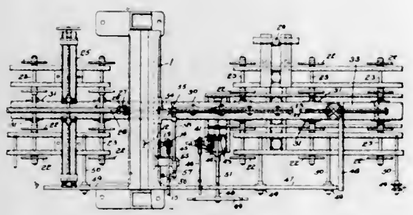
of the punch and provided with means for engaging the opposite ends of a plate, said guides coöperating with said tables to hold a plate in alinement while being advanced and punched, and plate-centering means arranged on each side of said feeding table and simultaneously moveable uniformly toward and from the center line thereof for engaging the side of a plate resting upon the feeding table and moving such plate into punching alinement prior to the engagement of the plate by said guides, said plate-centering means being removed from engagement of the plate while the plate is being advanced and punched under the control of said guides.

1,342,879. PUNCHING-MACHINE. GEORGE PAUL THOMAS, Glenshaw, Pa. Filed July 2, 1919. Serial No. 308,180. 7 Claims. (Cl. 164—90.)



1. In a metal punching machine, the combination of an anvil, a reciprocating head, a coöperating punch and die adjustably borne the one by said anvil and the other by said head, means for moving one of said tools upon its carrier, and means connecting said punch and die to each other for simultaneous adjustment, said connecting means including a pivoted link extending transversely of the line of reciprocation of said head.

1,342,880. SPACING-MACHINE. GEORGE PAUL THOMAS, Glenshaw, Pa. Filed July 2, 1919. Serial No. 308,181. 5 Claims. (Cl. 164—117.)



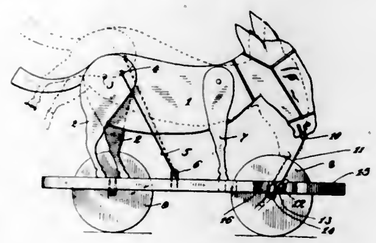
1. The combination of a punching machine provided with a reciprocating head and an anvil, means manually operable from a position adjacent to said machine for adjusting said punch and die while the machine is in operation, movable means for engaging a blank to feed it longitudinally through said machine, and means for moving said blank-engaging means, said last mentioned means being manually operable from a position adjacent to said punch and to said punch-and-die adjusting means whereby an operator viewing said punch with relation to a blank may simultaneously move the blank longitudinally and the punch laterally.

1,342,881. STEPLADDER. HENRY A. UDELL, Racine, Wis. Filed Nov. 15, 1919. Serial No. 338,194. 2 Claims. (Cl. 228—33.)



1. A brace for preventing the spreading apart of the front and rear supporting members of a step ladder comprising a plate a rod having one end connected with the plate and its other end pivoted to one of the supporting members, and a second rod having one end pivotally connected with the other supporting member and its other end pivotally connected with said plate, the pivotal connection between said other rod and plate being on the underside of the plate and adjacent its edge remote from the supporting member to which the other end of said other rod is secured.

1,342,882. KICKING MULE. JOHN THOMAS WHITE, New York, N. Y. Filed Apr. 3, 1920. Serial No. 370,963. 1 Claim. (Cl. 46—45.)

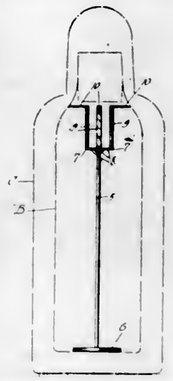


A toy comprising in combination a wooden platform, one front pair of wheels and one rear pair, said front pair being fixed to an axle-tree, a hole in the platform above the axle-tree, said axle-tree having incorporated therein a crank adapted to turn in the hole, two parts vertically mounted in the platform behind the hole to simulate an animal's forelegs, a bearing passed through said parts and fixed thereto, a part to simulate an animal's body pivotally mounted on the bearing between the two vertical parts, a shaft passed through and adapted to rotate in the hind quarters of the animal, two parts fixed thereto to simulate the hind legs of an animal, a pin projecting horizontally from one of said parts in front of the shaft, a wire having a loop passed around said pin and its lower end looped through a staple having an elongated slot and fixed in the platform near the front legs, another staple fixed in the nose of the animal, and a rigid wire loosely connected with said staple and at the lower end looped around the bearing of the crank.

1,342,883. ATTACHMENT FOR THERMOS-BOTTLES. CONNIE H. WILSON and CHARLES G. LEE, Asheville, N. C. Filed July 9, 1919. Serial No. 309,671. 2 Claims. (Cl. 215—118.)

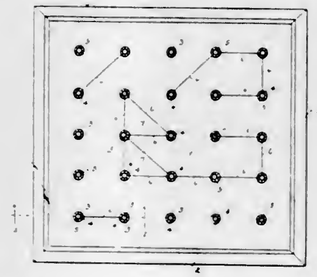
2. A device of the class described including an elongated stem, a coil spring secured to one terminal of the stem, said spring being disposed perpendicularly to the stem, thereby allowing every convolution of the spring to engage the bottom of a receptacle, separate resilient arms secured to the opposed terminal of the elongated stem, each arm comprising an inner radially extending portion, a relatively long longitudinally disposed portion extending

from the outer terminal of the radially disposed portion, and a radially disposed finger extending from the outer terminal of the longitudinally disposed portion, said



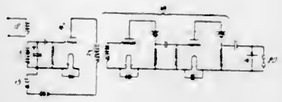
fingers adapted to yieldingly engage the side wall of the receptacle thereby securing the device within the receptacle.

1,342,884. GAME APPARATUS. GEORGE W. ANDERSON, Benona township, Oceana county, Mich. Filed Aug. 8, 1919. Serial No. 316,011. 1 Claim. (Cl. 46—41.)



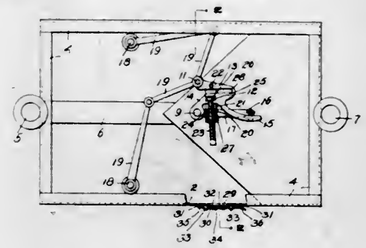
In a game apparatus: a game board having a plurality of upwardly extending members, each having eight angularly spaced sockets extending radially toward the adjacent members: elongated playing pieces adapted to be seated in the sockets of adjacent members.

1,342,885. METHOD OF RECEIVING HIGH-FREQUENCY OSCILLATIONS. EDWIN H. ARMSTRONG, Paris, France. Filed Feb. 8, 1919. Serial No. 275,744. 9 Claims. (Cl. 250—20.)



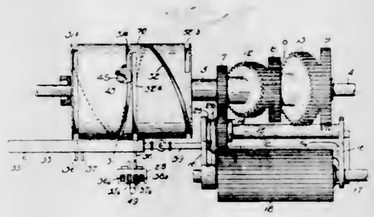
1. The method of amplifying and receiving high frequency electrical oscillatory energy which comprises, combining the incoming energy with locally generated high frequency continuous oscillations of a frequency differing from said incoming energy by a third readily-amplifiable high frequency, converting the combined energy by suitable means to produce said readily-amplifiable high frequency oscillation, amplifying the said third high frequency oscillations, and detecting and indicating the resulting amplified oscillations.

1,342,886. GAS-METER. JAMES R. ARMSTRONG, Pittsburgh, Pa. Filed Dec. 9, 1919. Serial No. 343,468. 4 Claims. (Cl. 73—1.)



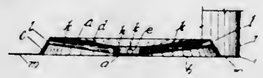
1. The combination with a closed tin-casing gas meter having a tool receiving opening in a wall thereof, a crank shaft, a tangent post adjustable relatively to the crank shaft, post adjusting means accessible through the casing opening, and a detachable cover for said opening having a portion soldered to the exterior portion of said wall and a free end portion, adapted to be engaged to remove the closure.

1,342,887. MECHANICAL MOVEMENT. JAMES ARNOTT, Oakland, Calif. Filed May 9, 1917. Serial No. 167,432. 21 Claims. (Cl. 74—58.)



1. In combination, a cam, parts movable into and out of connection with said cam during the movement thereof, and coöperating with said cam, and means for preventing said coöperating parts from being placed in connection with said cam except at the proper place.

1,342,888. BOTTOM FOR LIQUID-HEATING VESSELS. FRANK C. AVERY and ROY E. THOMPSON, San Diego, Calif. Filed Sept. 30, 1919. Serial No. 327,493. 2 Claims. (Cl. 53—1.)

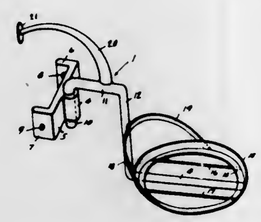


1. A device of the kind described having a flat outer portion, a converging portion, a concave portion, a chamber, a bottom portion, a plurality of converging pipes each opening at one end into said chamber and at the other end passing through said converging portion into said vessel, and a means adapting said device to be mounted on a liquid heating vessel.

1,342,889. SANITARY-CUSPIDOR BRACKET. WILLIAM G. BATSON, Los Angeles, Calif. Filed Aug. 28, 1919. Serial No. 320,465. 1 Claim. (Cl. 248—1.)

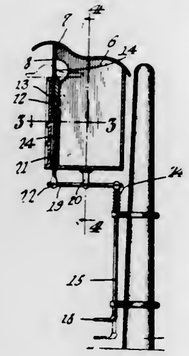
A sanitary cuspidor bracket comprising a vertical bearing means for securing the bearing to the leg of a desk, a pintle inserted downwardly into the bearing, an arm ex-

tending outwardly and downwardly from the upper end of the pintle, a cuspidor carrier fixed to the outer end of the arm and an operating arm extending outwardly and back-



wardly from the first mentioned arm and backwardly beyond the bearing so that it will project beyond the leg of the desk on the opposite side from the bearing.

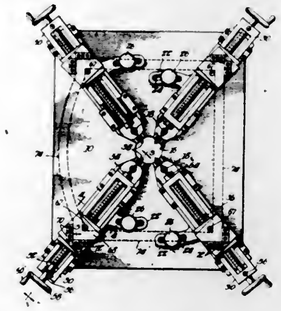
1,342,890. LETTER-BOX-CLOSURE OPERATOR. GEORGE E. BENTON, East Hampton, N. Y. Filed Jan. 12, 1920. Serial No. 350,811. 1 Claim. (Cl. 232—45.)



In a receptacle, a supporting post, a pivoted closure for the receptacle, said closure having a depending flange provided with a cut out portion in one surface thereof, and adjacent the lower edge thereof, said cut out portion having an inclined surface, an operating rod slidably connected with the post, a pivoted arm having connection with the operating rod, a closure engaging rod having connection with the pivoted arm, said closure engaging rod having an inclined end adapted to contact with the inclined surface for camming the closure to an open position, and means for returning the operating rod to its normal position.

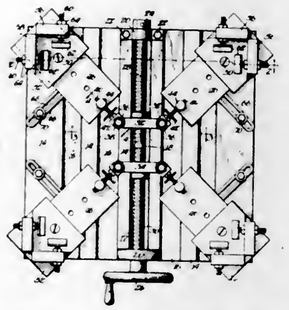
1,342,891. QUICK-ACTING FRAME-CLAMPING MACHINE. OSCAR BERGSTROM, Chicago, Ill., assignor to Handy Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1919. Serial No. 330,171. 2 Claims. (Cl. 144—292.)

1. In mechanism of the class described, the combination of a supporting table, a plurality of base plates, one for each point on the work which is to be clamped, each pivotally mounted for lateral rotation across a different radial line through a common point on the table, a reciprocatable member mounted on each base plate for movement toward and from said common point, a foot operated mechanism under the control of the operator for simultaneously drawing said reciprocatable members toward said common point, a clamping jaw device for the article



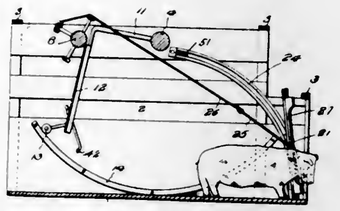
to be worked upon, carried by each reciprocable member, and slow motion mechanism for adjustably positioning each clamping jaw device along the reciprocatable member.

1,342,892. MITER-FRAME CLAMP. OSCAR BERGSTROM, Chicago, Ill., assignor to Handy Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1919. Serial No. 330,884. 3 Claims. (Cl. 144—292.)



1. In mechanism of the class described, the combination of a supporting table, a pair of cross heads adjacent to the table, means for adjusting the cross heads toward and from each other, and a work-engaging jaw device pivotally attached to each cross head and freely rotatable over the surface of the table, and means immediately adjacent to the cross head for adjusting the distance of the work-engaging jaw device from its given cross head.

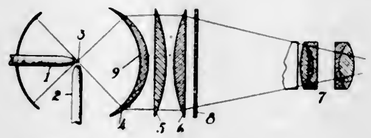
1,342,893. HOG CATCHER AND TURNER. JOHN F. BLOCK, Knoxville, Ill. Filed June 6, 1919. Serial No. 302,289. 13 Claims. (Cl. 119—103.)



1. A hog turning device including a rotary element, a table rigidly connected to the rotary element, a head en-

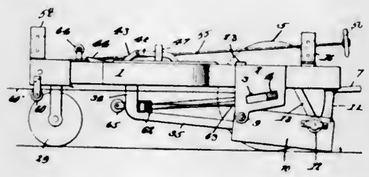
gaging device having its sides provided with spaced trunnions, a pair of guide members receiving said spaced trunnions for directing the movement of said head engaging device in an arcuate path, and means coöperating with said table and said head engaging device for operating the same in unison.

1,342,894. ILLUMINATING APPARATUS. LUCIAN W. BUGBEE, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 7, 1916. Serial No. 113,525. 9 Claims. (Cl. 240—1.)



1. A projection system comprising a curved reflector and a meniscus condenser lens, both having their center of curvature at the same point, and a source of light adjacent said point, the inner face of said lens having a coating with the property of selective reflection of infra red rays and selective transmission of visible rays.

1,342,895. EXCAVATOR. EDWARD D. CALLEN, Greenville, Miss. Filed Sept. 4, 1918. Serial No. 252,569. 4 Claims. (Cl. 37—19.)

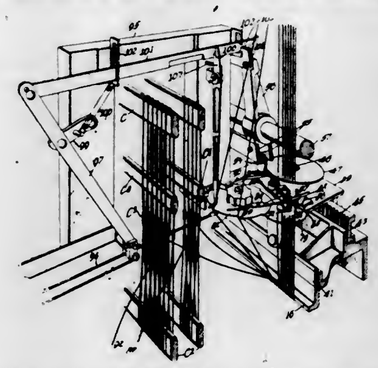


1. In an excavator the combination with a wheel supported structure and a scoop movably connected to said structure, of an ejecting plate movably mounted in the scoop, a holding means for fastening the scoop in lowered position relative to the structure, means operated by the movement of the ejecting plate under pressure of dirt collected by the scoop, for releasing the scoop from its holding means, means for fastening the holding means in released position, means for pulling the structure rearwardly, said means being operatively connected to the wheel supported structure and to the ejecting plate, means for automatically locking the ejecting plate against movement to eject the load from the scoop, and means for shifting the ejecting plate to unlock it, said structure pulling means operating to shift the released ejecting plate and eject the load.

1,342,896. MACHINE FOR OPERATING UPON WARPS. HOWARD D. COLMAN, BURT A. PETERSON, and EARLE D. PARKER, Rockford, Ill., assignors to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed July 30, 1917. Serial No. 183,445. 39 Claims. (Cl. 139—94.)

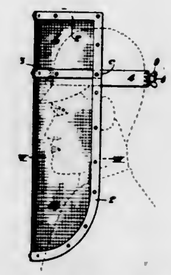
1. A warp-drawing machine having, in combination, means for supporting a warp, means for supporting loom harnesses, a needle mounted for reciprocation, a lever supported intermediate its ends and connected at one end to the needle, a bar connected to the other end of the first mentioned lever, an actuator arranged to reciprocate said bar, means for placing successive threads of the warp in position to be taken by the needle, and means controlled by threads being positioned for the needle for holding the bar out of the range of action of the actuator.

36. A machine for operating upon a warp having, in combination, a frame, beam supports at one side of the frame, a carding bar mounted at the other side of the frame substantially parallel with the axis of the beam, a



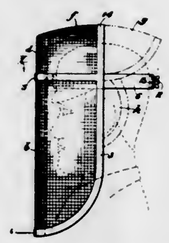
beam brake, means in the frame for temporarily supporting a warp clamp intermediate the beam and the carding bar, and a warp clamp mounted in the frame above the carding bar to receive the end portion of the warp held by the first mentioned clamp.

1,342,897. FACE-MASK. DAVID DE ROSIER, Braddock, Pa. Filed Dec. 9, 1919. Serial No. 343,565. 3 Claims. (Cl. 2—119.)



3. A protecting mask of the class described consisting of an annular securing band having means for fitting and holding it upon the head of the wearer, a vertically disposed laterally curved shield member secured to the band by intervening connecting means providing circulation space between the band and the shield, and a supplemental shield similarly secured outwardly beyond said first-named shield.

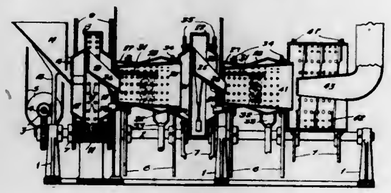
1,342,898. FACE-MASK. DAVID DE ROSIER, Braddock, Pa. Filed Jan. 6, 1920. Serial No. 349,751. 6 Claims. (Cl. 2—119.)



3. A protecting mask consisting of a front shield of suitable perforate material provided with a rearwardly

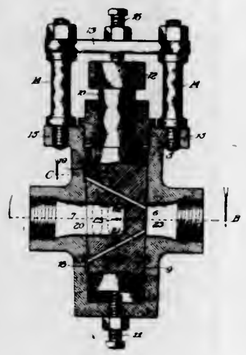
extending coping at its upper portion, an attaching band connected to the front shield, and a supplemental shield secured to and spaced outwardly from said shield and provided at its upper portion with a rearwardly extending outer portion spaced beyond the first named upper shield portion.

1,342,899. METAL-PLATING MACHINE. CHARLES W. EDDY, East Providence, R. I. Filed Apr. 29, 1919. Serial No. 293,555. 12 Claims. (Cl. 204—5.)



2. In a metal coating machine, a pair of parallel shafts, a plurality of independent drums, and a pair of drive wheels fixed on each shaft for each drum for supporting and driving the same, the wheels supporting and driving one drum being of different diameter than the wheels supporting and driving an adjacent drum whereby one drum will be rotated at a different speed than the adjacent drum.

1,342,900. VALVE DEVICE. JAMES MCGILLIVRAY, South Chicago, Ill. Filed July 7, 1919. Serial No. 309,014. 2 Claims. (Cl. 251—98.)



1. A balanced valve-device comprising a casing provided with an inlet-port, and an outlet-port in the same plane, and a discharge and return-port, pockets in the inner casing-wall at opposite sides of the outlet-port, a solid valve rotatably seating in the casing and containing a port connecting said inlet and discharge, and return ports in one position of the valve and said discharge and return and outlet-ports in another position thereof, and passages extending convergently through the valve to register at their divergent ends with said pockets and at their opposite ends with the inlet-port when closed by the valve.

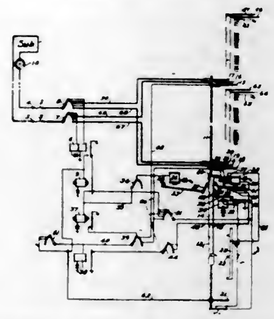
1,342,901. CONFINED-COMBUSTION METHOD. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed June 6, 1916. Serial No. 101,887. Renewed July 19, 1919. Serial No. 312,106. 4 Claims. (Cl. 158—117.5.)

3. A method of obtaining instant and continuous forced combustion of liquid fuels in confined passages of narrow compass, consisting in producing an air-atomized spray stream of liquid fuel against a negligible back pressure in said confined passage, igniting the same by a spark directly intercepting said spray stream, and uniformly



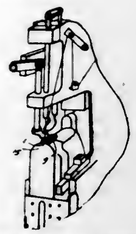
enveloping said stream with a stream of combustion-supporting air close to the spark but without immediately mixing therewith to an extent producing explosion.

1,342,902. TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1917. Serial No. 191,364. 8 Claims. (Cl. 179—18.)



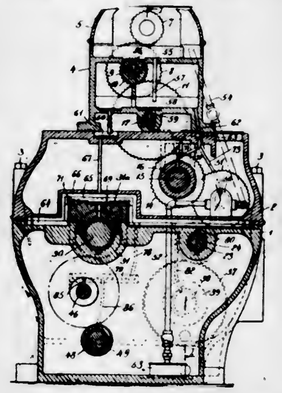
1. In a telephone system, a selective switch having two sets of brushes, an incoming line associated with said brushes but normally disconnected therefrom, impulse mechanism and means for operating the same to actuate said brushes, a multiposition auxiliary switch for controlling said impulse mechanism, and means for variably positioning the auxiliary switch to connect said incoming line to one or the other of said brush sets, dependent upon whether said impulse mechanism receives an even or an odd number of impulses.

1,342,903. DUPLEX NEEDLE-PLATE FOR SOLE-STITCHING MACHINES. THADDEUS S. GRAHAM, Los Angeles, Calif. Filed Apr. 22, 1919. Serial No. 291,883. 1 Claim. (Cl. 112—45.)



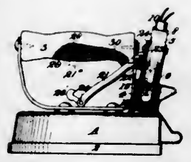
A combination needle plate comprising a knife needle plate having a needle hole and a grooving knife, means for fixing the needle-plate upon a stitching machine and having a hinge adapted to carry a lip needle plate and a lip needle plate hingedly mounted in the hinge of the knife needle plate and adapted to form a shield over the knife of the knife needle plate and to be swung upon the hinge out of the way and expose the knife needle plate for use.

1,342,904. LUBRICATING SYSTEM FOR LATHE-HEADSTOCKS. GEORGE E. GREENLEAF, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 28, 1918. Serial No. 255,997. 12 Claims. (Cl. 184—6.)



10. The combination of a horizontally divided casing having bearings at opposite ends and inclosing other bearings and parts requiring lubrication, bearing caps secured to the lower casing section and fitting recesses in the upper casing section, the said casing and caps having an oil distributing duct formed integrally in the joints between the lower and upper casing sections and between the caps and the upper section, which duct extends entirely around the casing and is raised over the bearings, means for supplying oil to the raised parts of the duct, feeders leading downward from the raised parts of the duct to the said bearings at opposite ends of the casing, and feeders leading downward from other parts of the duct to other bearings and parts requiring lubrication.

1,342,905. SWITCH ATTACHMENT FOR ELECTRIC IRONS. CHARLES H. HELLING, Oakland, Calif., assignor of one-half to George C. Lester, Oakland, Calif. Filed Apr. 3, 1919. Serial No. 287,101. 12 Claims. (Cl. 219—25.)



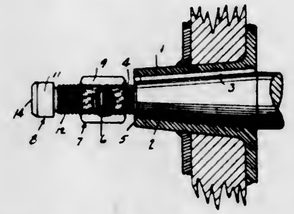
1. The combination with a handle of an electric iron, and a switch on the iron, of a lever pivotally mounted in the switch adapted to make or break a circuit through the switch, a spring interposed between the handle and the lever adapted to normally hold the lever in a position where the circuit through the switch is broken, and means for locking the lever with relation to the handle when the circuit through the switch is closed, said means being only operable when the iron is placed on end, and said means adapted to automatically release the lever when the iron is moved into horizontal position.

1,342,906. SHIRT. HIRAM H. HERST, Ocean View, Va. Filed Apr. 8, 1919. Serial No. 288,499. 1 Claim. (Cl. 2—41.)



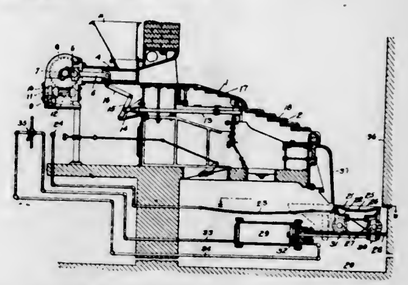
A shirt for men's wear having plain rear panels and front panels connected by shoulder seams, its front panels being cut away angularly along the upper, inner and adjacent edges to form V-shaped outlets at the upper central portion of the shirt front, each of said front panels being provided with integral flaps turned bordering the said upper angular portions and turned beneath the inner edges of the said front panels, the upper ends of which border flaps are secured in the shoulder seams, and fastening means for connecting the front panels in use, the upper members of which secure the lower ends of the said border flaps in place whereby the flaps will be securely held at the ends only.

1,342,907. METHOD OF REMOVING THE REAR WHEELS OF AUTOMOBILES FROM THEIR AXLES. BYRON H. HOLDSWORTH, Los Angeles, Calif. Filed Jan. 12, 1918. Serial No. 211,619. 1 Claim. (Cl. 29—85.)



The method of removing a wheel which consists in providing a driving punch and providing a punch holder, screwing the punch holder upon the screw threaded nipple of the axle, screwing the driving punch into the punch holder against the end of the axle, and driving the driving punch to drive the axle out of the wheel.

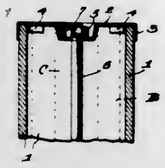
1,342,908. FURNACE CONSTRUCTION. HARRIS B. HOLT, Dormont, Pa., assignor to Rosedale Foundry & Machine Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 2, 1919. Serial No. 301,177. 6 Claims. (Cl. 110—171.)



1. In a boiler furnace, the combination of a grate, means for progressively feeding fuel from the front to

the discharge side thereof, a horizontally movable ash-receiving and supporting basin at the discharge side of the grate, means for supplying water to said basin in free communication with the ashes supported thereby, an ash pit below said basin, an abutment adjacent to an upper edge of said basin, and means for moving said basin horizontally beneath said abutment to cause the ashes supported by the basin to fall into said pit without removing the water from the basin.

1,342,909. ROLL-CONTAINER. WILLIAM H. HOPE, Providence, R. I. Filed Jan. 15, 1920. Serial No. 351,517. 2 Claims. (Cl. 206—59.)



1. In a roll carrier, a pair of heads each having outer guide parts and having a tapered central countersunk portion forming a projection extending inwardly of the heads, substantially L-shaped guide parts secured along the edges at one end thereof to the inner faces of the heads, sides engaged between the guide parts, and a single bolt having a nut, the bolt extending through the projections and the latter extending within the end portions of the roll whereby the projections support the roll out of engagement with the sides and out of engagement with the roll.

1,342,910. PROCESS OF COLORING IRON OR STEEL ARTICLES. HERBERT F. JERMAIN, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Jan. 7, 1920. Serial No. 349,980. 3 Claims. (Cl. 204—1.)

3. A process of coloring iron or steel articles, consisting in using them alternately as the anode and cathode of an electrolytic bath consisting of a solution of an oxidization agent in an alkaline liquid, and having an incorrodible opposing electrode; then removing the articles from the bath, washing them with hot water, drying them and rubbing them with oil.

1,342,911. STEEL ALLOY. CHARLES MORRIS JOHNSON, Avalon, Pa. Filed Aug. 7, 1919. Serial No. 315,809. 3 Claims. (Cl. 75—1.)

1. An alloy steel containing the following non-ferrous constituents in the proportions given: carbon, .30 to .60 of one per cent.; manganese, not more than .80 of one per cent.; silicon, 1.00 to 2.50%; chromium .30 to .80 of one per cent.; vanadium .10 to .30 of one per cent.; nickel, 1.50 to 3.50%.

1,342,912. BUNSEN BURNER. CHARLES M. JOHNSON, Avalon, Pa. Filed Aug. 7, 1919. Serial No. 315,810. 4 Claims. (Cl. 158—111.)

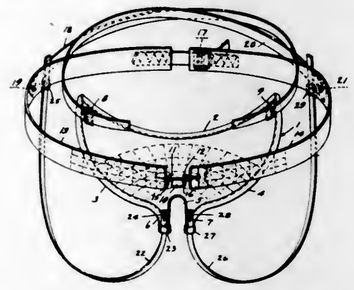


3. In a Bunsen burner, the combination with a base member having a central upward-opening gas duct and notched externally at its upper end, of a top member of circular cross section and provided with a widening central passageway or chamber, the said top member adapted to be seated by its narrower end upon the upper extremity of said base member and adapted to rotate upon said base member when so seated, and said top member being notched at such narrower end, substantially as described.

1,342,913. VAULT-PLATE. CHARLES MORRIS JOHNSON, Avalon, Pa. Filed Aug. 7, 1919. Serial No. 315,960½. 4 Claims. (Cl. 75—1.)

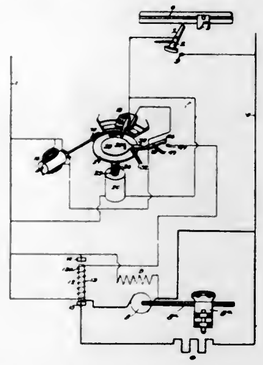
1. A vault plate formed of a nickel-chromium-steel alloy, in which the chromium content is at least 10%, substantially as described.

1,342,914. ABDOMINAL SUPPORT. PETER JOHNSON, Los Angeles, Calif. Filed Aug. 9, 1919. Serial No. 316,448. 2 Claims. (Cl. 128—96.)



2. An abdominal support comprising a pad adapted to fit the lower part of an abdomen, main belt portions extending from the lower part of the pad around to the back and adjustably connected together, straps extending at the sides from the main belt portions around the back and adjustably connected to the pad, and straps extending downwardly from the pad and adapted to pass downwardly between the legs and backwardly and upwardly and adjustably connected to the main belt portions.

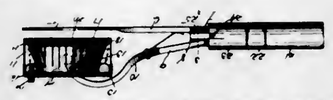
1,342,915. ELECTRIC FEED MECHANISM FOR PLANERS AND CURRENT-CONTROLLING SYSTEM THEREFOR. SVEN P. JOHNSON, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 16, 1916. Serial No. 84,696. 35 Claims. (Cl. 172—240.)



1. The combination with a reciprocating planer table and a movable tool head, of an electric motor for feeding the tool head, table operated means for causing the closing of the circuit of the motor at each reciprocation, and

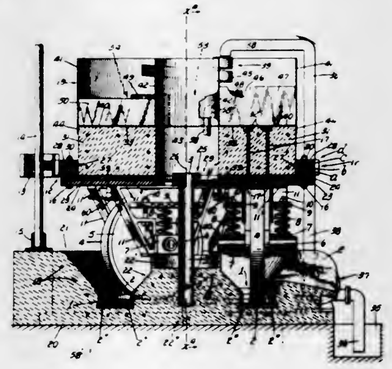
movable means mechanically and electrically independent of the motor for causing the opening of the circuit of the motor after a predetermined interval.

1,342,916. VULCANIZER. SIMON KENCHEN, New Haven, Conn. Filed Dec. 16, 1919. Serial No. 345,339. 10 Claims. (Cl. 18—18.)



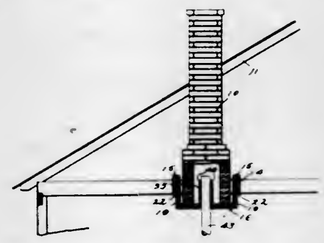
10. A vulcanizer comprising a rest and a heating member movably connected and normally extending in divergent directions, a stem rigidly connected with one of said members, a clamp sleeve mounted on the stem, and means for operating said clamp sleeve.

1,342,917. MULTIPLE-PROCESS CHILIAN MILL. CHARLES COMSTOCK LANE, Los Angeles, Calif. Filed Dec. 12, 1916. Serial No. 136,570. 18 Claims. (Cl. 83—45.)



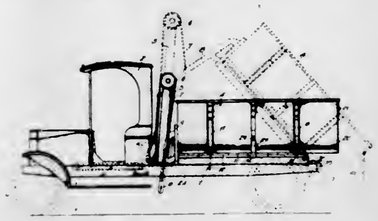
3. In a Chilian mill a superstructure for the crushing apparatus comprising a frame provided with a circular rim, gearing thereon, a circular evenly balanced and solid monolith cast upon and made integral with said frame and connected to the roller bearings of the mill to weight the same, crushing rollers journaled under the weight and a tank rigidly mounted on said monolith and adapted to receive pulp from the path of the rollers for further treatment of the pulp by cyanid and also to add the weight of the charge and tank to assist in crushing the ore which supplies such pulp.

1,342,918. FLUE-PAN. THOMAS A. LEGG, Lumberton, Miss. Filed July 14, 1919. Serial No. 310,551. 3 Claims. (Cl. 72—95.)



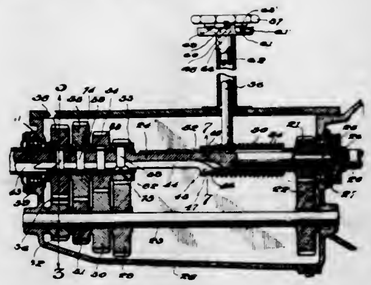
1. The combination with an open bottom flue having a pipe entering the open end thereof, of a flue pan arranged beneath the open bottom of the flue provided with a central aperture adapted to receive said pipe and tubular member secured to said pan and extending upwardly into said flue surrounding said pipe, said tubular member being provided on the upper end thereof with a resilient flange engaging said pipe.

1,342,919. MOVABLE LOADING-HOPPER. ALBERT P. LEE, Chicago, Ill., assignor to Lee Loader & Body Co., Chicago, Ill. Continuation of application Serial No. 728,398, filed Oct. 29, 1912. This application filed Mar. 2, 1915. Serial No. 11,584. 12 Claims. (Cl. 298—10.)



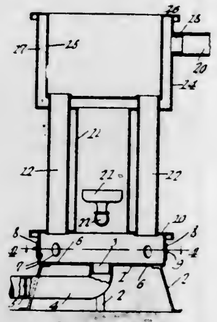
1. A truck of the character described having a hopper adapted substantially automatically to roll from one side to the other thereon for discharging its load to either side of the truck, and means whereby the hopper may be tilted rearwardly to discharge its load, said hopper having at its rear extremity a flat wide bottom to permit spreading of the material therein during the discharge operation and said hopper having a closure at its rear extremity adapted to be opened to permit of a discharge of the material when the hopper is tilted rearwardly.

1,342,920. SPEED-CHANGE GEAR. GRANVILLE E. MEDLEY, Hopkinsville, Ky., assignor of one-fourth to Medley Dennis and one-fourth to Morton Dennis, Hopkinsville, Ky. Filed June 2, 1919. Serial No. 301,231. 9 Claims. (Cl. 74—59.)



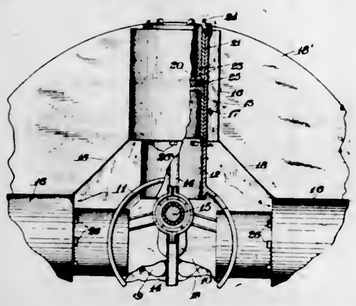
1. In a speed-change gear mechanism, the combination of a drive shaft, a counter shaft operatively connected to said drive shaft, a driven shaft, a plurality of gears of various diameters fixed on said counter shaft, a plurality of complementary gears of various diameters loose upon said driven shaft, radially movable pins carried by the driven shaft, said gears provided with recesses adapted to receive therein the ends of the respective pins, a longitudinally slidable key engaging said pins and normally maintaining them out of the depressions in their respective gears, said key provided with a depression, helical springs engaging said pins for urging the pins into one of the recesses of their respective gears upon movement of the key to position said depression in alinement with the pin, roller-bearings carried by said pins and engaging said key, and said pins being flattened at diametrically opposed points to prevent rotation thereof about their longitudinal axis with respect to the driven shaft.

1,342,921. STOVE. PHILIP P. MELANSON, Moncton, New Brunswick, Canada. Filed Dec. 7, 1918. Serial No. 265,791. 1 Claim. (Cl. 126—90.)



A stove comprising a base including a top, a bottom and a side wall; inner and outer drums having their bottoms and their side walls spaced to define a chamber having an outlet for the products of combustion; a central main flue connected to the top of the base and to the bottom of the outer drum and establishing communication between the interior of the base and the chamber; auxiliary flues disposed about the main flue, the auxiliary flues passing through the bottom of the outer drum and being connected to the bottom of the inner drum and to the top of the base, the auxiliary flues establishing communication between the base and the interior of the inner drum, the bottom of the base having openings alined with the auxiliary flues, the bottom of the base having an aperture alined with the main flue, and there being an aperture in the side wall of the base; and dampers controlling the respective apertures.

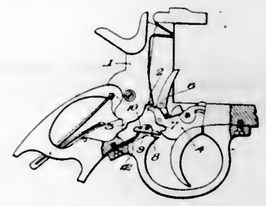
1,342,922. GAS-ENGINE. GEORGE L. MEYER, Milwaukee, Wis. Filed Apr. 11, 1918. Serial No. 227,928. 3 Claims. (Cl. 123—44.)



1. In a gas engine of the rotary cylinder type, the combination with the rotary cylinder, of a hollow jacket surrounding the cylinder and open at both ends, a scavenge port in the cylinder, means for controlling the passage of scavenging air to the interior of the cylinder, and means for simultaneously conducting air both to the scavenge port and through the jacket under the influence of the centrifugal force of the rotating cylinder.

1,342,923. REVOLVER AND SIMILAR ARM. CARLOS PEREIRA PINTO, Buenos Aires, Argentina. Filed Nov. 22, 1919. Serial No. 339,889. 1 Claim. (Cl. 42—66.)

In a fire arm, the combination of a spring-actuated hammer; a spring-controlled trigger adapted at the commencement of a single pull to directly engage the hammer and rock it into cocked position, and at the conclusion of such pull to release the hammer and return to normal position; and a locking member adapted to automatically engage the hammer when the latter moves into cocked position so as to hold it in that position; said locking member being directly engaged and operated by the trigger when the latter is pulled a second time, whereby said locking member is released from the hammer to permit automatic firing movement of the hammer under the influence of its actuating spring.

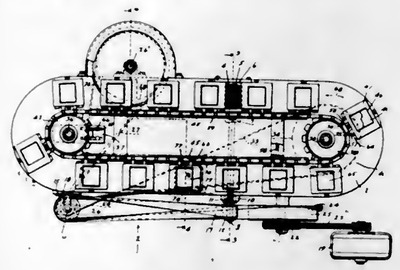


1,342,924. HATBAND. JAMES M. POWERS, Miami, Fla. Filed May 14, 1919. Serial No. 296,981. 3 Claims. (Cl. 2—32.)



1. In a hat band as set forth, the combination with a pair of opposing pieces of substantially equal length and arranged in conformity with each other and having their opposite end portions converging toward and in fixed contact with each other, of an intermediate spacing filler having undulations gradually diminishing in size toward the opposite ends of the filler, thereby providing a tapered filler to occupy the space between the opposing pieces and having their tapered ends extending toward the contacting opposite ends of the opposing pieces, said undulations extending vertically, thereby providing a plurality of vertical passages gradually diminishing from the center of the filler to the opposite ends of the band and through which air may circulate to ventilate the space between the top of the crown and the top of the head.

1,342,925. APPARATUS FOR MAKING WOOD SEPARATORS FOR STORAGE BATTERIES, &c. WILLIAM J. REHRIG, Los Angeles, Calif. Filed May 19, 1919. Serial No. 298,304. 4 Claims. (Cl. 144—2.)



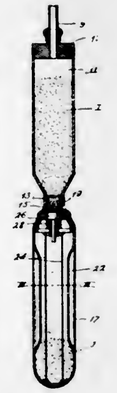
1. A groover and slicer for producing separators for the elements of storage batteries and the like comprising an endless track, magazines mounted to travel above the track, said magazines being open at the top and bottom and adapted to receive blocks with the blocks bearing upon the track and feeding downwardly, a groover in the track to groove the lower faces of the blocks as they pass over the groover, and a slicer in the track to cut slices from the blocks after they pass the groover and means for advancing the magazines along the track over the groover in a straight line of travel.

1,342,926. CABLE OR MONORAIL TRAMWAY AND VEHICLES FOR THE SAME. STEWART ALEXANDER ROGERS, Buenos Aires, Argentina. Filed Nov. 17, 1917. Serial No. 202,469. 1 Claim. (Cl. 104—117.)



In a monorail tramway, an elevated flexible cable rail, supporting rollers therefor, spaced pulleys over which the cable rail passes and between which a suspended bight of the cable rail is formed, a tensioning weight suspended from said bight, and a rigid rail in alinement with the flexible cable rail and bridging the space between the said pulleys.

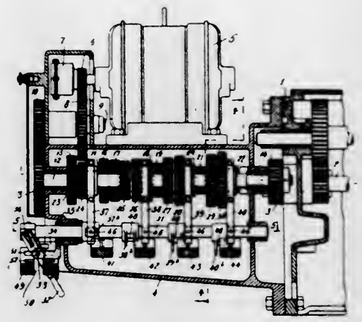
1,342,927. WELL-PLUGGING APPARATUS. ARTHUR T. RUTHVEN, Kansas City, Mo. Filed Dec. 7, 1918. Serial No. 265,766. 15 Claims. (Cl. 166—13.)



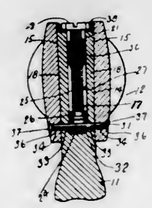
1. In an apparatus of the character described, a flexible container adapted to hold a sealing material for plugging a well, and means for introducing a fluid into said flexible container to force the same firmly into engagement with the wall of the well.

1,342,928. CHANGE-SPEED MECHANISM. WILLARD T. SEARS, Brooklyn, N. Y., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 30, 1918. Serial No. 260,224. 17 Claims. (Cl. 74—58.)

1. In a change-speed mechanism, the combination of two parallel shafts, a plurality of differently diametered gears fixed on one shaft, a plurality of gears independently slidable on the other shaft and adapted to mesh respectively with the gears on the first shaft, a longitudinally and angularly movable rod positioned parallel with the shafts, a single means for moving the rod longitudinally and angularly, and means comprising a plurality of gear-engaging elements dependent on the angular movement of the rod whereby the rod may be connected with any one of the slidable gears to move it longitudinally into or out of mesh with its mate.



1,342,929. MEANS FOR SECURING HEADS TO HANDLES OF TOOLS. STANLEY J. SHEPARD, Porterville, Calif. Filed Oct. 31, 1919. Serial No. 334,817. 2 Claims. (Cl. 287—33.)



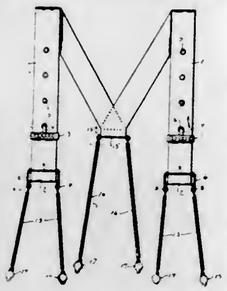
1. In means of the character described, the combination of a head having a bore, a handle the end whereof is received in the said bore, an anchor in said handle, means for anchoring said anchor to said handle and to said head, the end of said handle in said bore provided with a slot, a wedge-piece received in said slot, and a screw having swivel-connection with said anchor and threaded connection with such wedge-piece whereby to move said wedge-piece lengthwise of said handle by rotation of said screw.

2. In means of the character described, the combination of a head provided with a bore having opposite walls diverging outwardly, a handle the end whereof is provided with branches received in said bore, a wedge-piece in said handle between said branches, a screw having threaded connection with said wedge-piece, and means for holding said screw in lengthwise relation to said handle, said screw provided with means for turning the same, whereby to move said wedge-piece lengthwise in said handle to spread said branches into clamping relation with said outwardly diverging opposite walls of said bore in said head.

1,342,930. TROUSERS-SUPPORTING DEVICE. JAMES STURM, Tampico, Ill. Filed Aug. 2, 1918. Serial No. 247,938. 1 Claim. (Cl. 241—12.)

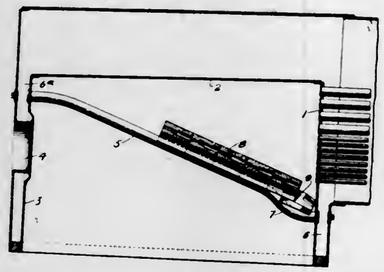
In a device of the class described, a supporting member, comprising a bar, adapted to be held in a loop of

fabric, and provided with eyes at its ends, and a pair of spaced-apart bars connected with said eyes, and provided



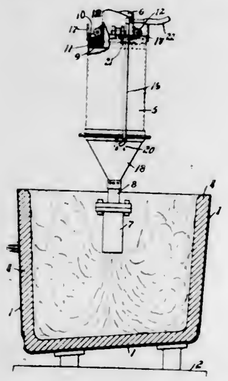
with inter-connecting end-pieces, all of the parts of said support being integrally united.

1,342,931. REFRACTORY-ARCH CONSTRUCTION. ALFRED H. WILLETT, West New York, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1919. Serial No. 292,378. 5 Claims. (Cl. 110—87.)



2. An arch construction, for fire boxes comprising in combination, an arch tube, a refractory arch carried thereon, and an arch elevating brick, said brick having a tube engaging surface on one face and an arch supporting surface and an arch abutment on the opposite face.

1,342,932. GAS-BURNER FOR DRYING LADLES. FRED W. ALLES, ALEXANDER FLETCHER, and GEORGE E. HITCHENS, McKeesport, Pa. Filed Aug 30, 1919. Serial No. 320,863. 5 Claims. (Cl. 263—5.)



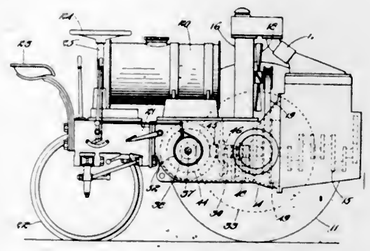
3. In combination a ladle mounted for horizontal movement and a burner for fluid fuel comprising a conducting main, a mixer hood arranged to telescope on said main, a combustion chamber and air inlet means in said mixer hood, means for raising the mixer hood on said conducting main to permit introduction of the ladle and for lowering the mixer hood and combustion chamber into operative position in said ladle, and means on said conducting main and mixer hood for limiting the downward movement of said mixer hood and supporting it in its lowered position.

1,342,933. FLYTRAP. AUGUST R. ANDERSON, Kingman, Ariz., assignor of one-half to James Harry Knight, Kingman, Ariz. Filed Aug. 2, 1918. Serial No. 247,987. 2 Claims. (Cl. 43—119.)



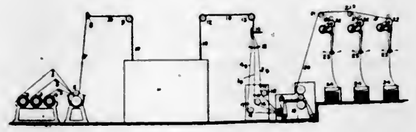
1. A fly trap comprising a pair of end plates having substantially V-shaped slits at their upper and lower edges, and a continuous screen wire body fitted at opposite ends to the marginal edge portions of said plates to provide a flat back adapted to be secured against a flat support, and substantially V-shaped lead-ways at opposite sides of the body, the screen wire having certain spaced apart strands severed and bent inwardly in the crotches of said lead-ways for forming means to prevent exit of flies from the body of the trap.

1,342,934. TRACTOR. STUART G. BAITS and STEPHEN I. FEKETE, Detroit, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 2, 1918. Serial No. 215,026. 1 Claim. (Cl. 180—54.)



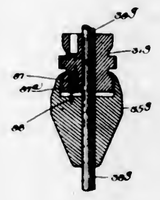
The improved tractor comprising a frame, a pair of main driving wheels and a truck in the rear of the driving wheels, an internal combustion engine mounted on a portion of the frame which is forward of the center line of the driving wheels, a transmission, differential and fuel tank mounted on a portion of the frame which is rearward of the center line of the driving wheels, a radiator located between the engine and the tank, the weight of the parts being concentrated on the driving wheels, and a draw-bar connection secured to the frame at a point to the rear of and below the center of the driving wheels, the power of said engine being so applied that the reaction of the driving force tends to hold the truck on the ground when going forward while the draw-bar pull tends to counteract said force and to lift the truck off the ground.

1,342,935. METHOD AND MEANS FOR TREATING LIGHT-WEIGHT FABRICS. WILFRED BANCROFT, Slatersville, R. I. Filed Oct. 13, 1919. Serial No. 330,309. 12 Claims. (Cl. 8—19.)



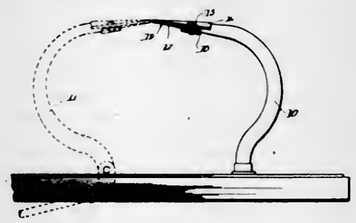
1. The herein described method for treating woven fabrics in web form to processes such as bleaching, consisting in superimposing a plurality of flat webs of woven fabric, drawing them into a multi-strand rope form, thereafter subjecting the fabrics in the multi-strand rope condition to treatment for bleaching of the like, and finally separating the treated fabrics for independent handling.

1,342,936. COUPLING OR CLUTCH. JOHN WESLEY BARBER, Newton, Mass. Filed Aug. 19, 1916. Serial No. 115,889. 12 Claims. (Cl. 285—161.)



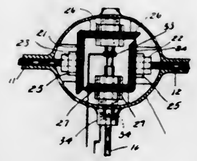
2. A coupling or clutch comprising essentially two complemental members having interengaging surfaces of revolution of which one is surrounded by the other, and also having inner bores eccentric to said complemental surfaces, and means constructed and adapted to hold said members in any one of several different positions wherein their bores are out of alinement.

1,342,937. ATTACHMENT FOR GARMENT-TURNING MACHINES. WILLIAM A. BARNETT, Lincoln, Nebr. Filed Oct. 26, 1918. Serial No. 259,847. 10 Claims. (Cl. 223—20.)



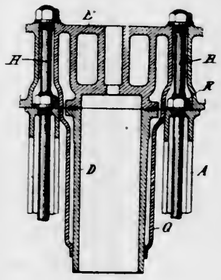
1. A work supporting arm for fabric turning machines having a tapering extremity, a flat supplemental member mounted on said tapering extremity, and means for adjustably securing said supplemental member in position, said means including a recess in said arm, a clamping member provided with a projection adapted to engage in said recess, and means for connecting the clamping member to the supplemental member.

1,342,938. DIFFERENTIAL AND DRIVING MECHANISM. PRESTON G. BEREMAND, Bay City, Mich. Filed July 7, 1917. Serial No. 179,278. 10 Claims. (Cl. 180—49.)



1. The combination of a chassis, front and rear axle sections, wheels on the front and rear axle sections, a front and a rear gear mechanism connecting the front and rear axle sections together, an operative connection between the gear mechanisms whereby all of the wheels are driven by the gear mechanisms, and a pair of clutches located within and operatively connected to each gear mechanism.

1,342,939. BED FOR VERTICAL INTERNAL-COMBUSTION ENGINES. HANS HENRIK BLACHE, Hellerup, near Copenhagen, Denmark. Filed Apr. 10, 1920. Serial No. 372,950. 1 Claim. (Cl. 123—193.)

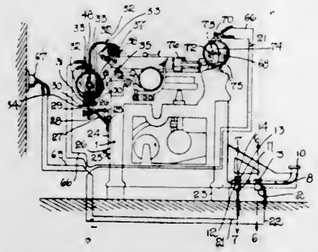


In a multi-cylinder internal combustion engine construction, the combination of a plurality of cylinders; a cover for each cylinder, the covers of pairs of adjacent cylinders joining each other at the center lines between the cylinders; fastening means connecting the covers together at their joints; A-shaped beds disposed between the individual cylinders and extending upward into contact with the bottom faces of the covers; stay bolts extending upward through said frames and said covers in the planes of the joints between the covers, and being threaded both at their upper ends and intermediate their ends in the planes of the joints between the cylinders and their covers, the lower ends of said bolts being fastened at the bottoms of the beds; nuts engaged with the intermediate threaded portions of the bolts and adapted to be securely tightened against the tops of said beds so as to tension said bolts; and additional nuts engaged with the threaded upper ends of the bolts and adapted to be tightened against the upper faces of the covers after the tensioning of said bolts by the tightening of the first-named nuts has been completed, whereby the covers may be removed without affecting the tension of the bolts.

1,342,940. CARRIAGE-RETURN MECHANISM FOR TYPEWRITERS. FRANKLIN C. BREUCKMAN and GEORGE T. ARNOLD, Mackinac Island, Mich. Filed July 28, 1919. Serial No. 313,923. 6 Claims. (Cl. 197—66.)

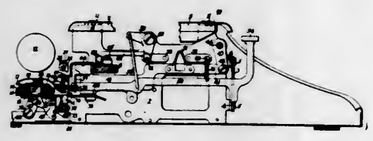
1. In combination with a typewriter frame, of a carriage mounted thereon for reciprocation, a solenoid mounted on the frame, a guide mounted on the frame and comprising

spaced flanges provided with overhanging parts, an arm attached to the carriage and having means engaging in the guide and riding between the bottom of the guide and the overhanging parts, for guiding the arm, a core carried



by the arm electrically coöperating with the solenoid, whereby, when the solenoid is energized, the core will be drawn therein, and cause the return of the carriage to initial position.

1,342,941. TYPEWRITING-MACHINE. HERBERT E. BRIDGWATER, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 27, 1919. Serial No. 333,452. 13 Claims. (Cl. 197—91.)

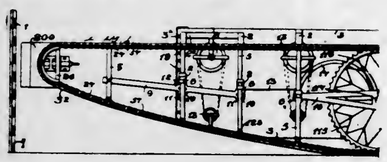


1. In a typewriting machine, the combination of a carriage mounted for case shifting movement, a releasable feed rack carried thereby, a back spacing pawl coacting with said rack and which is mounted to move with the carriage in the case shifting movements of the latter, a device to hold the feed rack against releasing movement, said pawl and device being rigidly connected, and means for actuating said pawl and device.

1,342,942. PROCESS OF PREPARING CREOSOTE-OIL SOLUTIONS. GEORGE A. COOK, Kansas City, Mo. Filed Mar. 13, 1918. Serial No. 83,871. 2 Claims. (Cl. 134—56.)

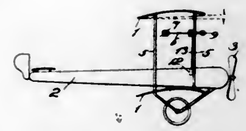
2. The herein-described process of preparing a solution of creosote oil which consists in mixing coal tar, water-gas tar, and petroleum, in approximately the proportion of 25 per cent. of coal tar, 25 per cent. of water-gas tar, and 50 per cent. of petroleum, allowing the mixture to settle, and thereafter removing the upper layer of clear oil solution thus formed.

1,342,943. SELF-PROPELLED TANK OR REDOUBT FOR MILITARY USE. FREDERIC WILLIAM CUNARD, Liverpool, England. Filed Aug. 15, 1919. Serial No. 317,840. 2 Claims. (Cl. 89—36.)



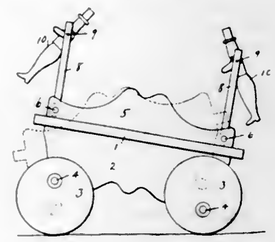
1. The combination in a "tank" or redoubt for military use, of crank girders: an elevator system supported by said cranks for raising and lowering the body of the structure; axles on each crank girder; water-tight caterpillar plates and water-tight plates and chassis constructed as a see-saw fashioned track supported by said crank girders; a roof for baffling and deflecting aircraft bombs; means designed to deflect frontal gun fire; grids adapted to open and close provided in the body of the structure; a small emergency caterpillar-track chain on each side of the see-saw fashioned track; and means adapted to actuate said emergency caterpillar-track chains.

1,342,944. COMBINED INCIDENCE AND SIDE-SLIP INDICATOR FOR AEROPLANES AND THE LIKE. OSCAR A. DANIELSON, New York, N. Y. Filed Sept. 30, 1916. Serial No. 123,093. 7 Claims. (Cl. 177—351.)



4. In an indicator to show both the angle of incidence and the angle of side-slip of an aerial machine, a vane to be acted upon by the air supported so as to be free to move about two axes at right angles to each other, a pair of parallel shafts carrying contact brushes, connections between the vane and one of the parallel shafts whereby the motion of the former about one of its axes is caused to turn this shaft, other connections between the vane and the other parallel shaft whereby its movements about its other axis turns the latter shaft, independent contact segments with which the brushes carried by the aforesaid shafts engage, and electric connections including indicating devices leading respectively from the said segments.

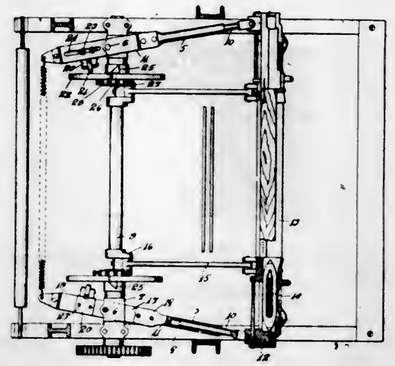
1,342,945. TOY. FRANK L. DORSK, Baltimore, Md., assignor to Maryland Toy Manufacturing Company, Inc., a Corporation of Maryland. Filed Jan. 20, 1920. Serial No. 352,726. 2 Claims. (Cl. 46—45.)



1. A toy comprising a base having an aperture in each end, wheels upon which said base is mounted, said wheels being mounted off their centers, sides projecting above said base, a shaft revolubly mounted in said sides at each end of said base and having an aperture therethrough, a pin adapted to pass through the aperture in each of said shafts and into the aperture in the base, parallel bars projecting from each of said shafts, and a figure revolubly hung from each of said parallel bars.

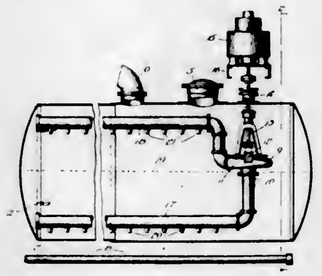
1,342,946. PICKING-MOTION FOR LOOMS. RICHARD C. DREHER, Rockville, Conn. Filed Oct. 8, 1917. Serial No. 195,244. 7 Claims. (Cl. 139—48.)

1. In combination with the lathe of a loom, a rotatably mounted lathe shaft, direct connections between said lathe shaft and lathe, a picker staff having an opening through which said lathe shaft extends, said staff being pivotally mounted on said shaft and the latter rotatable



within the staff, an operative connection between said staff and a picker on the lathe frame, and means upon said shaft for driving said staff.

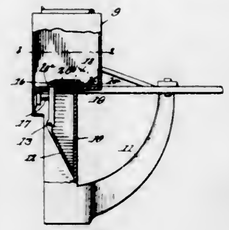
1,342,947. OIL-STILL. WILLIAM M. DUNCAN, Alton, Ill. Filed Sept. 10, 1917. Serial No. 190,553. 2 Claims. (Cl. 259—95.)



1. In an oil still, the combination of a tank, an intake manifold on the interior of said tank and adjacent to the bottom thereof and having openings for the inlet of oil from various points adjacent to the bottom of the tank, a discharge manifold on the interior of the tank and adjacent to the top thereof and having openings for the discharge of oil at various points, said discharge manifold being above the normal level of the oil in the tank whereby the discharged oil is delivered onto the upper surface of the oil within the tank, a centrifugal pump within the tank, and above the normal level of the oil, said pump having a vertical impeller shaft, connections from the intake and discharge manifolds to the pump, and a vertical driving shaft connection from the pump to a point above the tank, substantially as described.

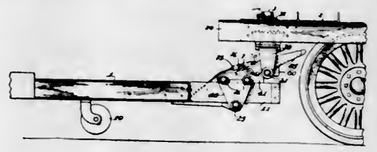
1,342,948. SEED-DROPPING MECHANISM. THOMAS J. ELLISON, Terrill, Ky. Filed July 6, 1918. Serial No. 243,658. 1 Claim. (Cl. 221—142.)

In a planter, a seed box having a bottom provided with an outlet, a slide bar working in the seed box on the bottom thereof and over the outlet, and having an opening adapted to register with the outlet, operating means for the slide bar, upstanding guide strips on the bottom of the seed box between which the slide bar works, and a plate extending across the guide strips at the top thereof above the slide bar, and positioned above the seed box outlet, said plate covering a portion only of the slide bar to leave the opening thereof exposed at



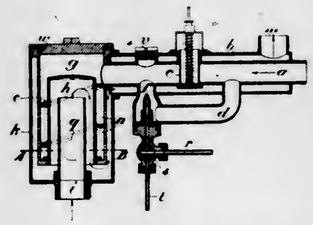
the end of the stroke of the bar in one direction, and said opening passing beneath the plate on the opposite stroke of the bar.

1,342,949. DEVICE FOR COUPLING TRAILERS TO TRACTORS. FRANK T. FALCO, Seattle, Wash., assignor to Pacific Car & Foundry Co., Seattle, Wash., a Corporation of Washington. Filed Nov. 26, 1919. Serial No. 340,879. 7 Claims. (Cl. 213—67.)



1. The combination with a truck, having a king pin having a depending yoke head and a horizontally placed draft pin carried by and connecting the sides of said yoke head, of a trailer having a reach, a guiding nose carried by the reach adapted to enter said yoke and having an inclined under surface adapted to ride upon the draft pin, and a draft hook carried by said nose and adapted to drop over said draft pin.

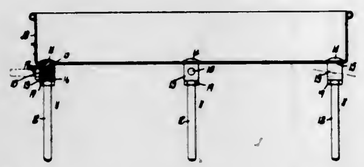
1,342,950. INTERNAL-COMBUSTION ENGINE. ADOLF FEHLMANN and GOTTLIEB HINTERMANN, Basel, Switzerland. Filed June 12, 1919. Serial No. 303,747. 4 Claims. (Cl. 123—122.)



1. An apparatus for driving explosion engines by tar-oils, Diesel oils and similar liquid fuels of high boiling point, comprising a vaporizing chamber, means for heating the same by means of exhaust gases of the engine, a cap or thimble arranged within said vaporizing chamber forming a circulation channel with the side wall thereof, means for heating said cap or thimble from inside, an air pipe arranged to communicate with said channel in the vaporizing chamber, a preheating jacket surrounding said air pipe and designated to be supplied by exhaust gases, a regulating valve in said air pipe, a branch pipe connected therewith on both sides of the

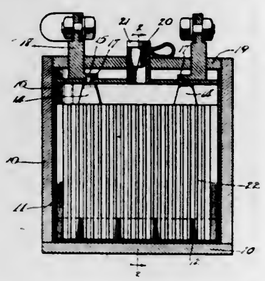
regulating valve and a fuel nozzle arranged in the said branch pipe, for the purpose of conveying a mixture of fuel and preheated air through said circulation channel heated from inside and outside, substantially as described.

1,342,951. COLLAPSIBLE SWIVEL-LEG. WILLIAM G. GAGNÉ, Boston, Mass. Filed Sept. 22, 1919. Serial No. 325,517. 3 Claims. (Cl. 45—48.)



1. A leg having, in combination, a post adapted to swivel upon a stationary member about an axis extending longitudinally of said post, and a member detachably fastened to said post and normally in alinement therewith, said post being also provided with an opening adapted to receive said detachable member and position the same at right angles to its normal position.

1,342,952. STORAGE-BATTERY CONSTRUCTION. WILLIAM GARDINER, Chicago, Ill. Filed June 9, 1919. Serial No. 302,720. 3 Claims. (Cl. 204—29.)



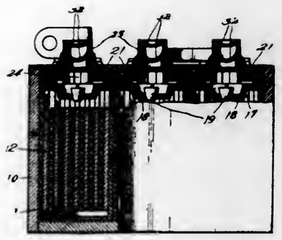
3. In a storage battery, a containing cell having a plurality of insulating ridges extending transversely across the bottom thereof, a plurality of electrode plates supported by said ridges and extending at a plane at right angles to said ridges, separators located between adjacent plates, each of said separators comprising a sheet of insulating material and being provided with notches corresponding to said ridges and fitting over the same and extending below said plates, whereby said ridges operate to hold said separators from longitudinal movement.

1,342,953. ACTIVE MATERIAL FOR BATTERY-PLATES. WILLIAM GARDINER and WILLIAM H. DUGGAN, Chicago, Ill. Filed Aug. 23, 1919. Serial No. 319,522. 1 Claim. (Cl. 204—29.)

An active material for storage batteries consisting of a mixture containing oxid of lead, kieselguhr, powdered pumice stone, and sulfate of ammonia mixed with an acid solution.

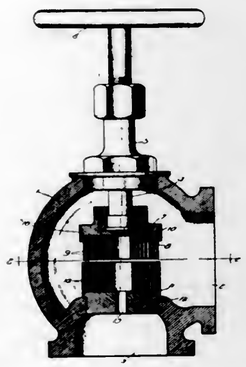
1,342,954. COVER FOR STORAGE BATTERIES. WILLIAM GARDINER, Chicago, Ill. Filed Oct. 4, 1919. Serial No. 328,545. 4 Claims. (Cl. 204—29.)

1. In a storage battery, a containing cell, a box-shaped cover therefor, the bottom member of said cover being formed by a pair of metallic plates being connected together by an insulating member, electrode plates in said



cell, and connections from said metallic plates to electrode plates.

1,342,955. VALVE. HENRY J. GEBHARDT, Chicago, Ill. Filed Apr. 19, 1918. Serial No. 229,496. 12 Claims. (Cl. 251—167.)



6. In a valve to control fluid pressure, the combination of means to provide a plurality of surfaces disposed in position to frictionally resist the passage of the fluid when the valve is closed, and means to cause relative movement between said surfaces to open and close the valve without friction between said surfaces, the opposing surfaces being close enough to resist by surface friction the passage of the fluid between them when the valve is closed.

1,342,956. PROCESS OF MANUFACTURING AMMONIUM PERCHLORATE FROM SODIUM PERCHLORATE AND AMMONIUM SULFATE. GUY C. GIVEN, HOWARD S. MCQUAID, and RALPH A. LONG, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 23, 1918. Serial No. 259,421. 2 Claims. (Cl. 23—13.)

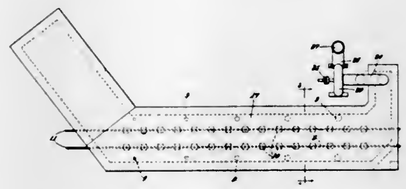
1. The herein described process which consists of adding sodium perchlorate and ammonium sulfate to a nucleus solution containing ammonium perchlorate, sodium perchlorate and sodium sulfate, removing the anhydrous sodium sulfate and separating out the ammonium perchlorate below 22° C.

1,342,957. METHOD OF RESISTANCE WELDING. JAMES H. GRAVELL, Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass., a Corporation of Massachusetts. Filed July 11, 1919. Serial No. 310,192. 4 Claims. (Cl. 219—10.)

1. The method of resistance welding consisting in abutting the ends of the work without pressure, passing an

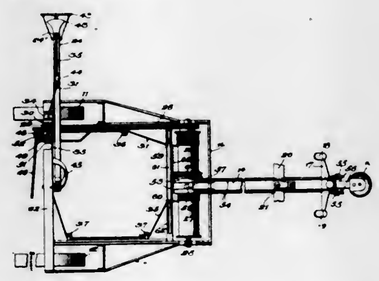
electric current across the abutted ends to establish a sparking or arcing from one to the other until the ends have reached a welding temperature, and then applying a heavy pressure to weld the ends together.

1,342,958. FURNACE. CARL HANER, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 22, 1917. Serial No. 203,402. 3 Claims. (Cl. 263—9.)



1. A furnace having a heating chamber, substantially level rails extending therethrough and means for heating the chamber comprising a conduit for the hot products of combustion below the heating chamber, the inlet end of which is downwardly inclined, and means for uniformly distributing the heated products of combustion in said heating chamber.

1,342,959. SHOCK-LOADER. WILLIS C. HILL, Philadelphia, Pa. Filed Aug. 15, 1919. Serial No. 317,730. 8 Claims. (Cl. 212—58.)



1. A shock loader comprising a normally pendent boom, guided weight means for steadying the same, means for swinging the boom upwardly, automatically operated means for rendering the second means operative when a shock is engaged and rendering said second means inoperative at the limit of upward swing of the boom, and means for guiding the boom laterally during its swinging movement.

1,342,960. PROCESS FOR LADLING GLASS. HARRY F. HITNER, Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed June 30, 1919. Serial No. 307,725. 6 Claims. (Cl. 49—77.)



1. A process of ladling glass from a body of molten glass which consists in dipping the glass from a body of molten glass in a metal ladle so that the glass next to the ladle is chilled, forming a plastic skin or pocket, and then depositing such pocket with its content of molten glass in a receptacle with said pocket intact and in contact with the wall of said receptacle and still carrying its content of molten glass.

2. A process of ladling glass from a body of molten glass which consists in dipping the glass from a body of molten glass in a metal ladle so that the glass next to the ladle is chilled, forming a plastic skin or pocket, depositing such pocket with its content of molten glass in a receptacle with said pocket intact and in contact with the walls of said receptacle and still carrying its content of molten glass, and drawing a glass article from said molten glass in the pocket.

1,342,961. LOCKING DEVICE FOR CABINETS. FRANK H. HOBERG, Green Bay, Wis. Original application filed May 31, 1916, Serial No. 100,921. Divided and this application filed Jan. 19, 1917. Serial No. 143,244. 1 Claim. (Cl. 292—189.)

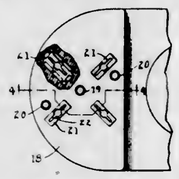


A delivery cabinet for paper sheets having a bottom discharge opening and comprising back and cover sections hingedly connected together adjacent said opening with the walls of the cover section telescoping over those of the back section, a hook-shaped bracket provided near the upper end within the cover section adapted for projecting inwardly of the back section when the cabinet is closed, and being substantially the length of the width of the walls of the cover section, guide pins secured through the rear wall of the back section, one above the other, a locking bar having longitudinal slots mounted upon said guide pins adapted for vertical reciprocation, a horizontal arm at the upper end of the said bar with a hooked free end serving as a latch adapted for engaging said bracket when the bar is in its normal lowered position with the cover section closed, and an inwardly extending projection upon the lower end of the bar adapted for access through said opening for elevating the bar when the cabinet is empty whereby the latch is released during the unlocking operation.

1,342,962. FOUNDATION AND HOUSING FOR RAILWAY SIGNAL APPARATUS. JOHN S. HORSON, Chicago, Ill., assignor to Massey Concrete Products Company, Chicago, Ill., a Corporation of West Virginia. Filed Mar. 25, 1920. Serial No. 368,811. 2 Claims. (Cl. 246—485.)

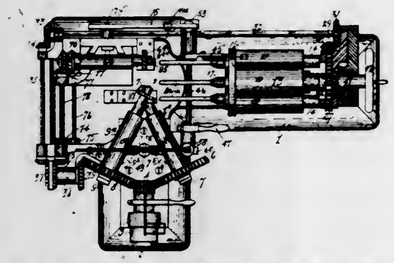
1. A structure of the class described, comprising a closed concrete vault provided with a horizontal plane upper surface adapted to have a signal pole or similar structure mounted thereon, an aperture in said horizontal upper surface, means whereby poles of a plurality of sizes may be secured in position on said plane upper surface, said means comprising a plurality of hollow cast metal inserts, each of said inserts provided with a longitudinal slot in its upper wall, said inserts being embedded in the concrete of the vault with their respective upper surfaces substantially flush with the aforesaid horizontal plane upper surface of the vault, the respective longitudinal

slots of said inserts being disposed coincident with radii of a circle having the middle of said aperture as its cen-



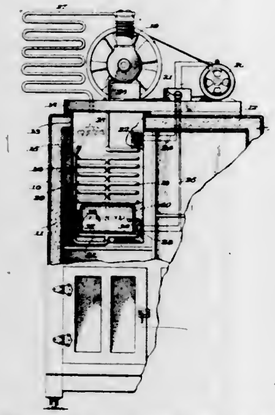
ter, together with bolts coöperating with said inserts and adapted to be adjusted in said longitudinal slots.

1,342,963. TWIST-DRILL MACHINE. RICHARD WEBSTER HUDSON and JOSEPH EDWIN HUDSON, Toledo, Ohio. Filed July 29, 1918. Serial No. 247,306. 10 Claims. (Cl. 29—38.)



1. In a machine of the described character, in combination with fluting cutters and finishing cutters, a longitudinally-fixed rotatable turret, a plurality of holders mounted in the turret and adapted respectively for operative connection with a drill-blank, gears mounted and journaled upon the turret and adapted and arranged to simultaneously rotate the holders, means whereby the rotation of the holders will also project and retract the holders into and out of operative relation to the cutters, and a detent arranged to engage and hold the turret and the holders successively in operative relation to the cutters.

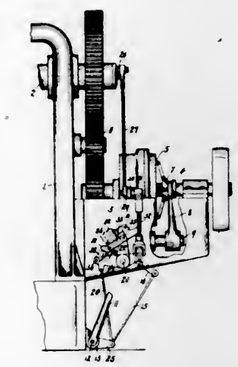
1,342,964. REFRIGERATING APPARATUS. HENRY B. JOY, Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 21, 1918. Serial No. 212,964. 13 Claims. (Cl. 62—116.)



1. In a refrigerating apparatus, the combination with a refrigerator having insulating walls, of a chamber with-

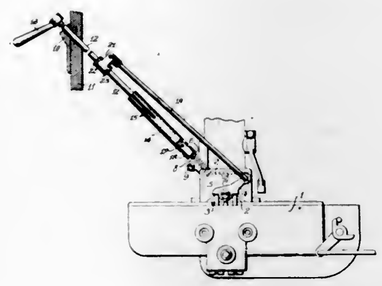
ing said refrigerator having walls insulating it from the interior of the refrigerator, and a refrigerating machine having a cooling coil in said refrigerator, part of said coil being inside and part outside of said chamber.

1,342,965. AUTOMATIC CLUTCH CONTROL FOR POWER-PRESSES. BROR J. LINDGREN, Toledo, Ohio, assignor to The Toledo Machine & Tool Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 10, 1918. Serial No. 227,637. 9 Claims. (Cl. 74—46.)



1. In combination, a drive member, a rotatable driven member, clutch controlled driving connection between said members, control means manually operable to engage and release the clutch of said connection, a plurality of rocker members, connection between one of said rocker members and said means, connection between the other of said rocker members and said driven member whereby a rocking movement is imparted to said rocker member from a rotation of said driven member, and connection between said rocking members operable to communicate movement from one to the other thereof and to cause a movement of said control means from operative to inoperative position.

1,342,966. CARBURETER CONTROL. HARVEY S. MCCUTCHAN, Detroit, Mich., assignor to Kerosene Burning Carburetor Company, Detroit, Mich., a Corporation of Michigan. Filed May 6, 1918. Serial No. 232,696. 8 Claims. (Cl. 137—144.)



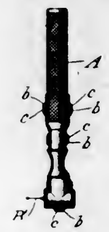
1. In combination, a dual-fuel carbureter having two fuel supply valves and a needle valve for regulating the fuel intake, and a longitudinally reciprocable and rotatable control member adapted to operate the several valves selectively.

1,342,967. INSOLE. HENRY MCMASTER, Highland Park, Mich., assignor of one-half to Jasper W. Davis, Detroit, Mich. Filed Feb. 7, 1919. Serial No. 275,535. 1 Claim. (Cl. 36—44.)



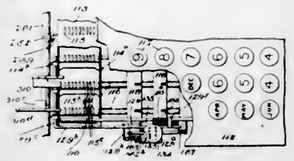
A separate detachable inner sole comprising a body formed of upper and lower thicknesses of material with a padding interposed between said thicknesses, the lower thickness being of less width and length than the upper thickness to provide a margin of a single thickness and the area of the padding being less than the area of the lower thickness of material to provide a cushion at the central portion of the body only, said padding having a thin margin, and said upper and lower thicknesses of material being secured together along their contacting marginal portions outside of said padding.

1,342,968. SANITARY MOUTH AND LIP PROTECTOR. RAPHAEL J. MOOLTEN, New York, N. Y. Filed Sept. 22, 1911. Serial No. 650,751. 2 Claims. (Cl. 32—10.)



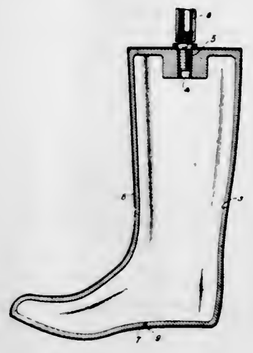
I. In a device of the class described, a sanitary mouth and lip protector made to fit over that portion of a dental hand-piece which enters the mouth of the patient, said protector being composed of a plurality of members adapted to be locked together and provided with an opening for the operating tool.

1,342,969. CALCULATING-MACHINE. ARTHUR PENTECOST, East Orange, N. J., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed May 15, 1918. Serial No. 234,650. 3 Claims. (Cl. 235—60.)



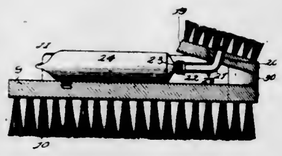
1. The combination with an indexing mechanism, including several denominational tiles of stops; means to set the stops to effective position; and means to releasably retain the set stops in effective position; of separate and wholly independent stop-releasing members; a single actuator common to the several stop-releasing members, and directly connected with one of the stop-releasing members; a shiftable finger connected to another of the stop-releasing members and normally lying in the path of the actuator to enable the latter to directly drive the last named stop-releasing member, independently of the first named stop-releasing member; and means to shift the finger out of the path of the actuator.

1,342,970. LAST FOR FOOTWEAR. RAYMOND B. PRICE, New York, N. Y., assignor to The Goodyear's Metallic Rubber Shoe Company, a Corporation of Connecticut. Filed Apr. 6, 1915. Serial No. 19,431. Renewed Apr. 9, 1920. Serial No. 373,224. 1 Claim. (Cl. 18—46.)



In combination with a perforated hollow pervious last for boots and shoes, a covering formed to fit the foot of the last and to extend upwardly beyond the area adapted to support the upper margin of the boot or shoe, said covering having perforations which register with the perforations of the last, the material of which said covering is formed being substantially impervious to gases.

1,342,971. SHOE SHINING OR POLISHING BRUSH. GEORGE A. REITZEL, St. Louis, Mo. Filed Jan. 30, 1919. Serial No. 273,950. Renewed Nov. 17, 1919. Serial No. 338,673. 3 Claims. (Cl. 15—46.)

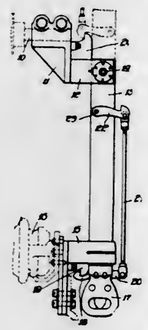


1. A device of the character described adapted to be attached to the top of a brush comprising a support composed of two parts, the forward ends of the parts being inclined and provided with flanges, a dauber mounted on the flanges, a portion of the upper edges of the support being bent inwardly to form a housing, a tube connected to the base of the dauber and projecting therethrough to connect with a tube in the housing, one of said members of the housing being pivotally mounted for free access to the polish tube, substantially as specified.

1,342,972. LOCKING-SWITCH. EDSON O. SESSIONS, Chicago, Ill. Filed Nov. 2, 1917. Serial No. 199,972. 19 Claims. (Cl. 200—169.)

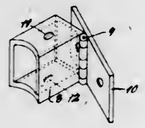
1. In a locking switch of the lock-in lock-out type, the combination of a first support, a pivot clip carried by said support, a switch blade pivoted to said pivot clip, a second support, a contact clip carried by said second support for engaging said switch blade in its closed position, a catch carried by said second support, locking mechanism carried by the switch blade engaging said catch when the switch is closed, a second catch carried by said first support, a latch pivotally carried by said switch blade between said pivot clip and said contact clip, and a connecting

rod between said latch and said locking mechanism, whereby operation of said locking mechanism operates said



latch, and a casing carried by said switch blade for containing said locking mechanism, said casing having slots through its opposite walls to receive an operating tool.

1,342,973. HINGE FOR EYEGLASS OR SPECTACLE FRAMES. ELMER E. SHREINER, Brooklyn, N. Y. Filed Aug. 1, 1919. Serial No. 314,734. 6 Claims. (Cl. 88—53.)



1. In combination with a split celluloid frame for eyeglass lenses having projections adjacent the split portions, fastening means to engage said projections and surround same, and means to releasably secure the projection engaging means to said projections.

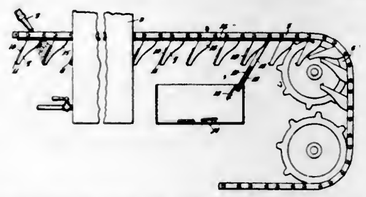
1,342,974. INSECT-SWATTER. ALLEN SMITH, Jr., San Diego, Calif. Filed Nov. 12, 1919. Serial No. 337,407. 2 Claims. (Cl. 43—137.)



1. An insect swatter, including a single non-branch handle member, a single longitudinally extendible elastic strip connected to the one end of said handle member adapted to be turned to a position normally at an approximate right angle thereto when in operative position, a swatting member pivotally connected to the opposite end of said longitudinally extendible elastic strip with its free side provided with lashes adapted to contact with the insect.

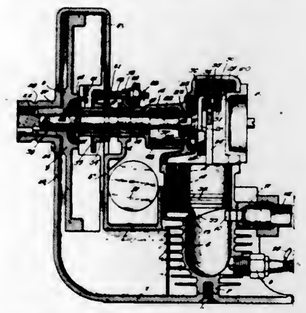
1,342,975. CONVEYING AND DISCHARGING APPARATUS. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 26, 1917. Serial No. 208,727. 10 Claims. (Cl. 193—2.)

1. A conveyer including a movable member, arms projecting from said member in closely spaced relation, the spaces between said arms tapering to wider dimensions at their outer ends for clearance of articles therefrom, means



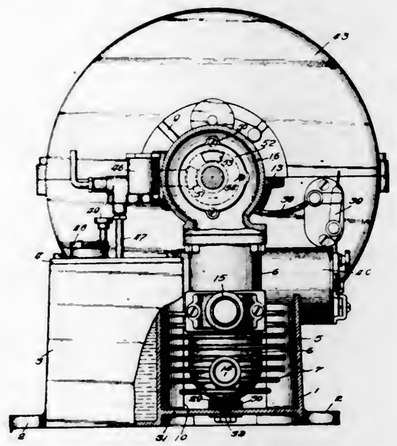
for supporting articles on the front edges of said arms, and means for removing articles from the arms.

1,342,976. INTERNAL-COMBUSTION ENGINE. HERBERT L. THOMPSON, Elgin, Ill. Filed Apr. 18, 1917. Serial No. 162,826. 13 Claims. (Cl. 123—117.)



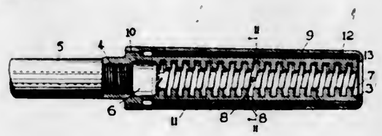
1. In a gas engine, the combination of a collar having an electrical contact thereon, a centrifugal electrical contact member, mounted for movement on a pivot inclined to the axis of the collar and adapted to engage the contact on said collar, and means for moving the collar toward and away from the centrifugal contact to control the engine speeds.

1,342,977. GAS-ENGINE. HERBERT L. THOMPSON, Elgin, Ill., assignor to Elgin Gas Motor Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 2, 1918. Serial No. 260,841. 20 Claims. (Cl. 123—195.)



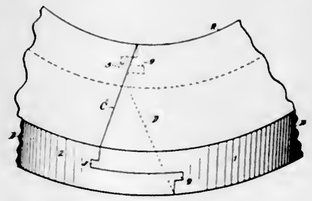
1. The combination with a gas engine having a cylinder with cooling vanes and a fan-bladed fly wheel, of a supporting base therefor with a transverse passageway in which said cylinder is disposed, a portion of the base partially inclosing the fly wheel and connected with the passageway to direct air from the fan blades therethrough against the cooling vanes of the cylinder.

1,342,978. FLASH AND RECOIL REDUCER FOR FIREARMS. FREDERICK WM. YOUNG, Hartford, Conn. Filed Mar. 10, 1919. Serial No. 281,589. 8 Claims. (Cl. 89—31.)



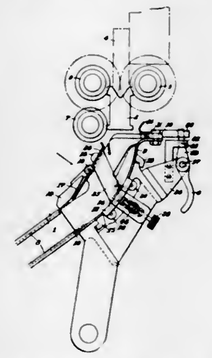
1. A flash and recoil reducer for firearms comprising a tubular casing adapted to be secured to the muzzle of a firearm and containing a helical baffle with the convolutions rigidly connected to the casing and forming an axial passage in line with the bore of the barrel and a helical baffle chamber surrounding and open to the axial passage.

1,342,979. JOINT. GEORGE L. BEITNER, Bridgeport, Conn. Filed Sept. 12, 1919. Serial No. 323,236. 2 Claims. (Cl. 20—92.)



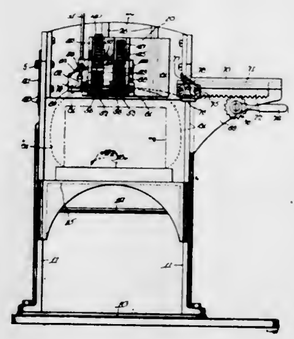
1. In a joint for segmental sections arranged to form an exterior convex edge and an interior concave edge, abutting end faces for said sections having a tongue and groove formed thereon which tongue and groove and the resultant joints, when the segments are assembled, are wider at the convex edge than the concave edge.

1,342,980. MAGAZINE OF TYPOGRAPHICAL COMPOSING AND CASTING MACHINE. JOHN ERNEST BILLINGTON, Broadheath, England, assignor to Linotype and Machinery Limited, London, England. Filed Oct. 30, 1919. Serial No. 334,419. 27 Claims. (Cl. 199—33.)



1. In or for a typographical composing machine, the combination with a magazine entrance provided with partitions dividing it into channels, of a plurality of groups of partitions adjustable to vary the width of the channels, and means whereby each of such groups may be adjusted independently.

1,342,981. BUNDLE OR PACKAGE TYING MACHINE. ADAM BLUEGE, Chicago, Ill. Filed July 21, 1919. Serial No. 312,321. 15 Claims. (Cl. 100—31.)



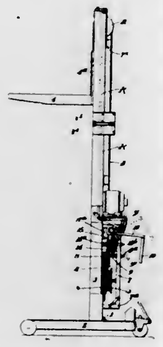
1. A bundle or package tying machine, comprising a vertically adjustable support, a wire twisting mechanism mounted for vertical movement above said support, means to raise and lower said mechanism, and means to operate the same.

6. In a machine of the character described, the combination with a main frame having spaced apart uprights, of a bundle supporting frame movably mounted between said uprights, means to raise and lower said platform, a wire twisting mechanism mounted for vertical movement above said platform, said mechanism including a vertically disposed and movable supporting frame, a pair of cylindrical wire twisting members having alined radial slots and journaled on said movable frame, a shaft horizontally journaled on said frame, two gears on said shaft one of which is directly geared to one of the twisting members and the other gear indirectly geared to the other twisting member, an operating lever fixed to said shaft, a slidable and spring actuated bar located at the outer end of each of said twisting members and having a cutter extended across the slot thereof, means to raise and lower the said movable frame, means to rotate the twisting members and to move said cutter carrying bars in one direction, a bracket having a horizontally disposed floor mounted on the movable frame near the end of one of the twisting members, a spring actuated wire gripping lever pivoted on said bracket, a horizontally and laterally movable bar mounted on the main frame near that end of the movable frame opposite said lever and having a bracket provided with a horizontally disposed floor, a spring actuated wire gripping lever fulcrumed on said bracket, and means to reciprocate said bar.

1,342,982. TIERING-MACHINE. WILLIAM EDWARD BOEHCK, Jersey City, N. J., assignor to Revolvator Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 11, 1919. Serial No. 310,080. 9 Claims. (Cl. 187—11.)

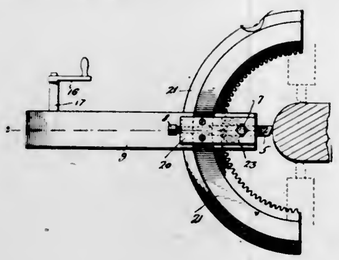
1. In a tiering machine, the combination of a guide frame for a reciprocating load-carrying platform; such platform; and platform lifting and lowering mechanism comprising an electric motor operatively connected with

platform lifting and lowering means also comprised in said mechanism; and other means operatively connected



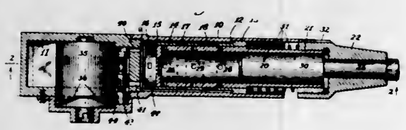
with the platform lifting and lowering means for use in manually lifting and lowering the platform.

1,342,983. TOOL-HOLDER. MICHAEL J. BREEN, Louisville, Ky. Filed May 23, 1919. Serial No. 299,221. 1 Claim. (Cl. 82—24.)



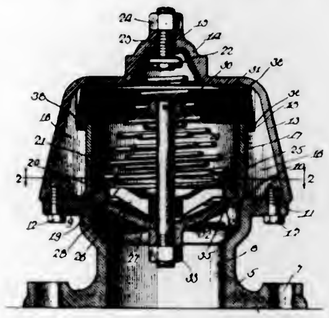
The combination of a base member having a guide opening through its top and opposite sides, a curved rack seating slidably in said opening and having its upper face exposed through the top guide opening, a pinion in mesh with the rack for sliding the same, a shaft carrying the pinion and having one end supported in an opening in the top of the base member, driving means for the pinion shaft, a cutting tool, and a support for said tool carried by that portion of the rack which is exposed through the aforesaid guide opening in the top of the base member.

1,342,984. VACUUM PNEUMATIC HAMMER. JAMES C. CAMPBELL, New York, N. Y. Filed July 15, 1916. Serial No. 109,455. 9 Claims. (Cl. 125—33.)



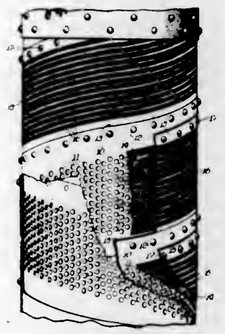
1. In a device of the character described, the combination with a cylinder member and a piston therein, of means for operating the latter, comprising a compressor having a rotary piston, passageways for delivering fluid between the compressor and cylinder member, an automatic controlling valve for the passageways, and a mechanical connection between the controlling valve and the rotary piston of the compressor to actuate said valve.

1,342,985. PRESSURE AND VACUUM RELIEF VALVE. ARTHUR W. CASH, Decatur, Ill., assignor to A. W. Cash Co., Decatur, Ill., a Corporation of Illinois. Filed Apr. 28, 1919. Serial No. 293,247. 5 Claims. (Cl. 137—53.)



4. A device of the character described, including, in combination, a body part, a hood part inverted and positioned over said body part, said hood part being wider than said body part, so that atmospheric pressure has access to the interior thereof, an outlet valve having an extended cylindrical part and having a passage therethrough, an inlet valve for closing said passage through the outlet valve, and a strainer in the upper part of the hood extending below the upper edge of the cylindrical part of the outlet valve to prevent the passage of foreign material through the inlet valve when open.

1,342,986. WELL-SCREEN. WILLIAM H. CATER, Chicago, Ill. Filed July 28, 1919. Serial No. 313,723. 9 Claims. (Cl. 166—5.)

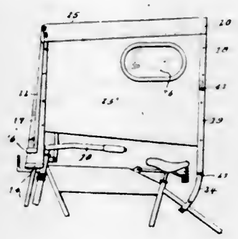


1. A well-screen of the character described, comprising in combination a tube composed of a sheet of metal with a smooth outer surface bent to spiral form having a series of perforations intermediate its edges and its one longitudinal marginal portion outwardly overlapping the opposite longitudinal marginal portion of the sheet and secured thereto, the edge of the outer overlapping part forming an exterior upwardly-facing spiral shoulder, and a second sheet of metal bent into spiral form, around said first sheet and secured thereto and having apertures therethrough of a size different from those of said first sheet, substantially as described.

1,342,987. MOTORCYCLE-TOP. MIKE CHIMINO, Batavia, N. Y. Filed Mar. 31, 1919. Serial No. 286,300. 1 Claim. (Cl. 135—7.)

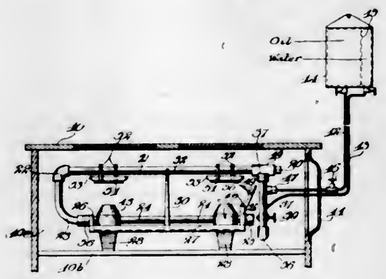
In a device of the class described, a front member constituting a wind shield and comprising an arch shaped

frame and a sheet of flexible material stretched across said frame and provided with a window opening, said front member also including securing devices for a top, and being bowed outwardly around the upper portion of the front fork of the machine and the handle bar, a rear frame member and means for connecting the latter



with the rear portion of the machine frame, means for connecting the front member with the front fork and comprising a pair of upwardly diverging arms connected with the front member at opposite sides thereof and approximately midway of the upper and lower portions of the front member and flexible means connecting the front member and rear frame member.

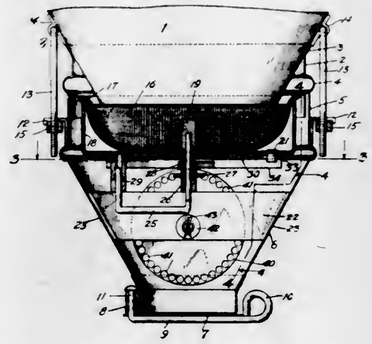
1,342,988. LIQUID-FUEL BURNER. JOHN W. COWELL, Chicago, Ill., assignor of two-thirds to Monroe Kohn, Chicago, Ill. Filed May 17, 1918. Serial No. 235,142. 2 Claims. (Cl. 158—56.)



2. In a device of the character described, a burner, a vapor generator connected to the burner, a steam generator in position to be heated by the burner, a conduit for supplying water to the steam generator, and a connection between said conduit and the vapor generator having restricted inlet and outlet ends and an intermediate portion in the form of a comparatively large chamber.

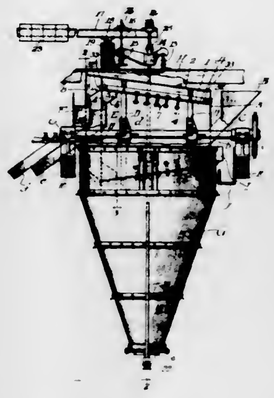
1,342,989. SIFTER FOR FLOUR-BINS. JAMES H. DEAN, Chicago, Ill. Filed Mar. 27, 1920. Serial No. 369,302. 7 Claims. (Cl. 83—60.)

1. The combination, in a device of the class described, with a bin or receptacle having a conical lower portion, with an opening at the bottom thereof, and having an auxiliary cylindrical wall depending from the outer surface of said conical lower portion, and provided with an annular bead or projection, of a sifter casing having an open cylindrical upper end arranged to engage said bead, sifter mechanism arranged within said casing, and means



for adjustably locking said sifter casing in position with the upper edge of its wall in contact with said head.

1,342,990. APPARATUS FOR SCREENING AND WASHING GRAVEL. RAYMOND W. DULL, La Grange, Ill. Filed Oct. 21, 1915. Serial No. 57,119. 12 Claims. (Cl. 83—56.)

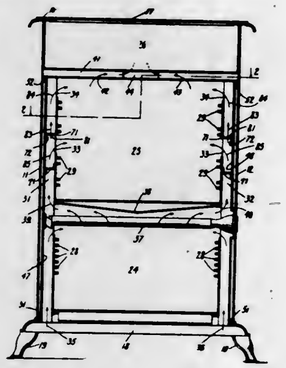


1. A combined screening and washing and separating apparatus, comprising a rotary screen, means for feeding sand and gravel to said screen, means for receiving the gravel from the screen, means for supplying water to the screen to wash the gravel, a receptacle to receive the water and sand from said screen, the construction and arrangement being such that the screen rotates in the water which thereafter overflows from the top of said receptacle, mechanism to permit downward movement of said receptacle when a sufficient load is accumulated therein, stationary means to support said screen independently of said receptacle, so that said screen is not sustained by said receptacle, and a valve having a connection operated by said mechanism during the downward movement of said receptacle to discharge the sand from the bottom thereof.

1,342,991. HEATING APPARATUS. JAMES ERSKINE, Jersey City, N. J., assignor to William M. Crane Company, a Corporation of New York. Filed Dec. 19, 1916. Serial No. 137,825. 4 Claims. (Cl. 126—39.)

1. A stove including, in combination, a casing, an oven disposed therein in spaced relation to the casing, flues for

directing heat currents around the oven, a flue disposed above the oven and communicating with the aforementioned flues, said oven being provided with openings communicating with the flues, and diaphragmal partitions extending across certain of the flues and provided with openings graduated to correspond with the respective heights of the partitions in the flues.

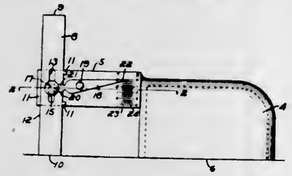


2. A stove including, in combination, a casing, an oven therein provided with openings, a lining for said casing formed with passages for heat currents around the oven, a flue disposed above the oven and provided with openings communicating with the oven, means for directing heat currents into the oven and out through the top thereof, and partitions between the oven and the lining and provided with openings graduated in size to correspond to their respective heights.

3. A stove including, in combination, a casing, an oven disposed therein in spaced relation to the casing, flues for directing heat currents around the oven, a top flue disposed above the oven and communicating with the aforementioned flues, said oven being provided with openings communicating with the flues, diaphragmal partitions extending across certain of the flues and provided with openings graduated to correspond with the respective heights in the flues, and means for directing a portion of the heat currents into the oven and a portion through openings in the diaphragm.

4. A stove including, in combination, a casing, an oven disposed therein, side and end flues disposed around the oven, a flue disposed above the oven, said oven being provided with openings communicating with the flues, diaphragms disposed in proximity to certain of the openings in the oven and between the oven and the casing, said diaphragms being provided with openings graduated to correspond to their respective heights in the flues, and means for directing a portion of the heat currents through the openings into the oven, out through the top thereof and down around the oven.

1,342,992., MEASURING INSTRUMENT. WILLIAM H. FIELD, Jr., Winchester, Mass. Filed Mar. 30, 1918. Serial No. 225,676. 3 Claims. (Cl. 33—172.)



1. In an instrument for taking measurements in a direction transverse to the face of a platen, the combination of a base having a flat face to rest upon the face of said platen, an arm projecting laterally from and beyond said base at a substantial distance from the face thereof, a gage mounted on said arm for adjustment in a direction transverse to said faces and having a length in the direction of its adjustment greater than the greatest dimension of said base and arm in such direction, and an indicator operated by said gage and mounted on said arm.

1,342,993. ALLOY. COLIN G. FINK, East Orange, N. J., assignor to General Electric Company, a Corporation of New York. Filed Nov. 22, 1915. Serial No. 62,713. 4 Claims. (Cl. 75—1.)

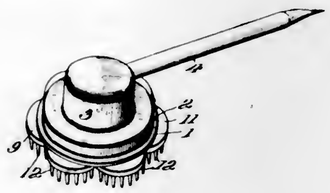
1. A ductile alloy consisting mostly of nickel and containing at least 20% cobalt and free from carbon, sulfur, phosphorus and basic impurities.

2. A wire for incandescent lamp and other uses, comprising by weight about 20 to 30 parts cobalt, about 80 to 70 parts nickel and several parts of manganese.

3. A ductile alloy for supports for incandescent filaments and other uses, comprising by weight about 20 to 30 parts cobalt, about 80 to 70 parts nickel and 2 parts manganese.

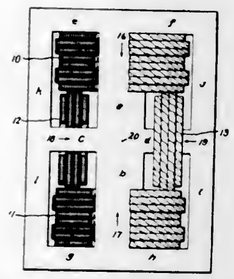
4. A ductile alloy consisting mostly of nickel and containing at least 20% cobalt with a small proportion of manganese and free from basic elements and from carbon, sulfur and phosphorus.

1,342,994. BATH-SPRAY. PATRICK J. FITZGERALD, Torrington, Conn., assignor to The Fitzgerald Mfg. Company, Torrington, Conn., a Corporation of Connecticut. Filed Mar. 11, 1920. Serial No. 365,021. 2 Claims. (Cl. 15—69.)



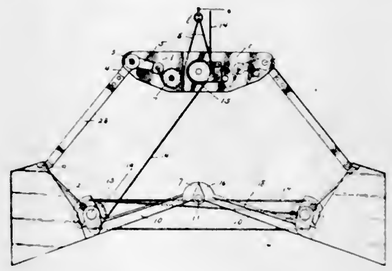
1. A combined bath spray and massage device comprising a spray head including a face plate, a centrally located massage member detachably connected thereto, a plurality of massage members separately detachable from said plate and arranged in spaced relation about said central device, said plate having a series of spray openings intermediate said central and said spaced members.

1,342,995. ELECTRICAL APPARATUS. JOHN J. FRANK, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1919. Serial No. 321,044. 4 Claims. (Cl. 175—356.)



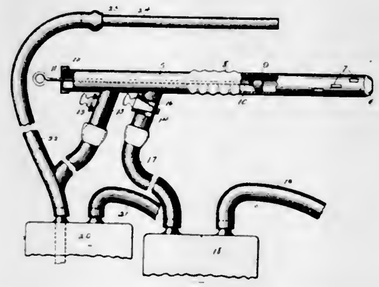
1. Three-phase induction apparatus comprising a core having four winding legs at right angles to each other and external members completing the magnetic circuits by joining the adjacent outer ends of said winding legs, a winding of one phase about one of said winding legs, a winding of a second phase about the opposite winding leg, and a part of the winding of the third phase about each of the two winding legs which are at right angles to the first mentioned two winding legs.

1,342,996. CLAM-SHELL BUCKET. HARVEY LE GEAR, Chicago, Ill. Filed Sept. 24, 1919. Serial No. 325,878. 14 Claims. (Cl. 37—30.)



5. In a clam-shell bucket, a substantially horizontal head, bucket jaws respectively suspended from the ends of the head, and a pair of arms fast respectively on the two jaws and pivoted to each other at their free ends, the said arms extending upward substantially along the juncture of the jaws when the bucket is closed and being of such length as to bring their free ends alongside the head when the bucket is closed.

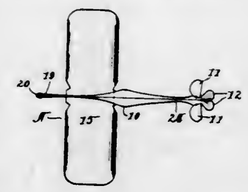
1,342,997. EMBALMING DEVICE. CHARLIE S. HARRELL, Lexington, Miss. Filed Sept. 4, 1919. Serial No. 321,595. 1 Claim. (Cl. 27—24.)



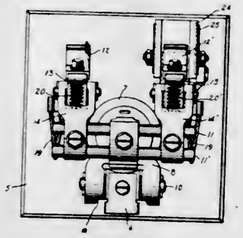
A device of the character described comprising an elongated tubular member having a pair of offsets leading from the sides thereof adjacent the rear end, each of said offsets having an individual controlling valve therein, a source of suction connected to one of said offsets, a source of embalming fluid under pressure connected to the other of said offsets and a plunger disposed in the tube and having a stem projecting from the rear end of said tube, said plunger being operable across the mouths of both of the offsets.

1,342,998. TOY AEROPLANE. BLAINE H. HARRIS, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Dec. 2, 1919. Serial No. 341,926. 5 Claims. (Cl. 244—12.)

1. A toy paper aeroplane, including a body portion formed of folded paper, a curved recess formed through said body portion, an empennage formed on the rear end of said body portion, a paper air-plane adapted to extend through said curved recess, a recess formed in the forward edge of said air-plane and a locking tongue formed on the read edge of said air-plane adapted to hold said air-plane rigidly and centrally to said body portion.

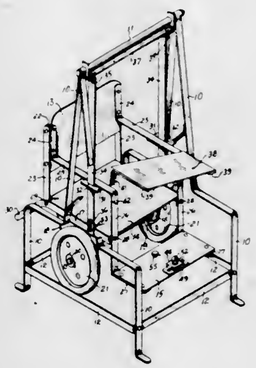


1,342,999. SWITCH CONSTRUCTION. LEONARD P. HUTT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1917. Serial No. 206,361. 9 Claims. (Cl. 200—145.)



1. An electromagnetic switch comprising a plurality of pairs of simultaneously actuated relatively movable resiliently engaging contacts arranged to effect a multiple break in a circuit, the distance between one pair of contacts in the open position being less than that between the remainder of the pairs of contacts, whereby the opening movement of said remainder of the pairs of contactu after their separation is accelerated responsively to the resilient effect between said one pair of contacts.

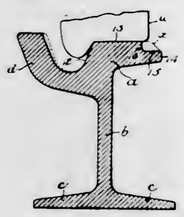
1,343,000. TOY SWING-CHAIR AND SULKY. FRANK KARSCHITZ, Bridgeport, Conn. Filed Jan. 5, 1920. Serial No. 349,521. 13 Claims. (Cl. 280—40.)



5. A toy swing chair and sulky of the character described, comprising a sulky having side arms carrying

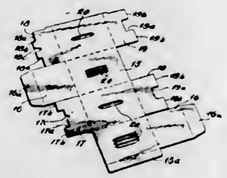
plates provided with rectangular openings, a seat carrying strips with headed pins thereon in alinement with said openings, and a foot rest provided with an opening and a headed pin in alinement therewith, in combination with a stand having uprights and a cross pin connecting the uprights and pivotally carrying hanger straps, the hanger straps being adapted to pass through said rectangular openings and to have disengageable connection with the headed pins, and a tongue adapted to be inserted through the opening of the foot rest and having means for disengageably connecting it with the headed pin thereon.

1,343,001. STREET-RAILROAD RAIL. JOHN WILLIAM MCMANAMA, Waltham, Mass., assignor of one-third to Samuel W. Simonds and one-third to Francis A. Barbey, Cambridge, Mass. Filed Nov. 15, 1917, Serial No. 202,224. Renewed Nov. 17, 1919. Serial No. 338,529. 3 Claims. (Cl. 238—122.)



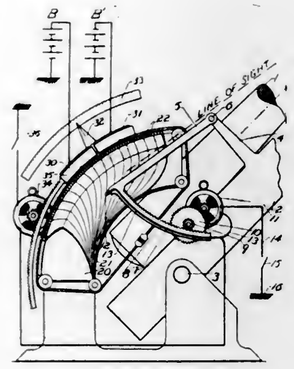
1. A street railway rail the head of which is of standard width, one lateral face of the head forming a wheel-flange-bearing defining one edge of the tread face, while the opposite lateral face forms a pavement abutment, the head being rabbeted to form a relatively wide substantially horizontal top face extending inwardly from said abutment and depressed below the tread face, and a relatively narrow tread-defining lateral face substantially perpendicular to the tread face and defining the opposite edge of the latter, said perpendicular face being spaced from the said flange bearing to render the tread face narrower than a wheel tread of minimum width, whereby wear of the tread face is distributed entirely across the same, the perpendicularity of said tread-defining face preventing change of the width of the tread face by wear.

1,343,002. CONTAINER STRUCTURE. JOHN P. MARKERT, Brooklyn, N. Y. Filed Mar. 3, 1919. Serial No. 280,234. 5 Claims. (Cl. 229—39.)



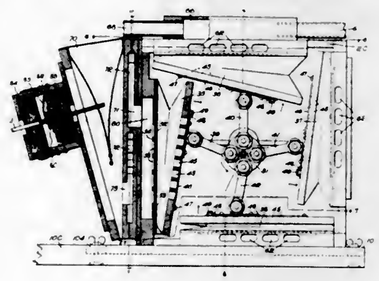
1. A carton having a pair of opposite end flaps, interlocking elements carried by both of said flaps and adapted to maintain them in engaged position with the line of intersection of the flaps spaced inwardly from the end of the carton, and means carried by each flap coöperating to engage a portion of an article in the carton and hold said article in position.

1,343,003. ELECTRIC SIGHT-CONTROLLING MECHANISM FOR ANTI-AIRCRAFT GUNS. ROBERT V. MORSE, Ithaca, N. Y., assignor to Morse Instrument Company, Inc., Ithaca, N. Y., a Corporation of New York. Filed Sept. 13, 1917. Serial No. 191,269. 9 Claims. (Cl. 33—49.)



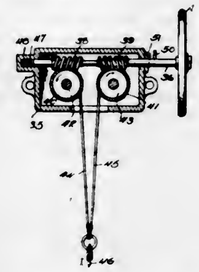
1. In an automatic sight controlling mechanism for anti-aircraft artillery, the combination of a contact point, electrically operated means for moving the contact point, a number of conductor strips upon which the contact point bears, said strips being curved to correspond to the desired operating curves of the mechanism, means for moving the contact point relative to the conductor strips simultaneously with the vertical swinging movements of the gun, means for supplying the strips on opposite sides of a given strip with opposite electrical potential whereby the contact point as it passes over the strips will be raised or lowered by the electrically operated means so as to follow the given strip, means for determining the strip which is to be said given strip, and means operated by said electrically operated means for determining the angle of sight elevation of the gun.

1,343,004. PNEUMATIC PUMP. GUY M. RUSSELL, Rochester, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 19, 1916. Serial No. 92,102. 12 Claims. (Cl. 230—2.)



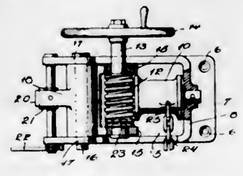
1. In exhaust apparatus for musical instruments, the combination of a number of bellows connected to a common exhaust chamber, each provided with valves, and means for rendering the closing of the valves substantially silent.

1,343,005. HAND-BRAKE. WILLIAM H. SAUVAGE, Flushing, N. Y. Filed Aug. 7, 1919. Serial No. 315,905. 12 Claims. (Cl. 74—112.)



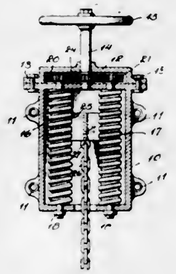
1. In a hand brake mechanism, in combination, a threaded shaft, a plurality of pinions adapted to be engaged thereby, drums associated with said pinions and flexible means adapted to be wound upon said drums as the pinions are rotated.

1,343,006. HAND-BRAKE. WILLIAM H. SAUVAGE, Buffalo, N. Y. Filed Aug. 7, 1919. Serial No. 315,906. 1 Claim. (Cl. 74—112.)



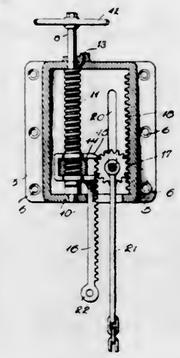
In a hand brake mechanism, in combination, a support, a drum mounted therein upon which a portion of the brake rigging is adapted to be wound, an operating shaft, a pivoted arm therefor, a worm carried thereby a pinion associated with the drum, and means for bodily moving the worm out of engagement with the pinion, said means comprising a cam adapted to engage the pivoted arm for the shaft.

1,343,007. HAND-BRAKE. WILLIAM H. SAUVAGE, Flushing, N. Y. Filed Aug. 7, 1919. Serial No. 315,907. 2 Claims. (Cl. 74—120.)



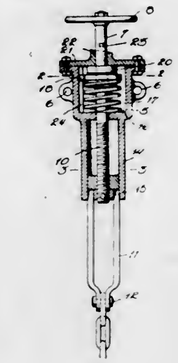
1. In a hand brake mechanism, in combination, a casing, a plurality of worms in said casing, a block mounted between said worms having threaded engagement therewith, means connecting said block with the foundation brake rigging, and gears associated with said worms, including a gear associated with each worm, and a gear therebetween, and a hand wheel connected with the central one of said gears.

1,343,008. HAND-BRAKE. WILLIAM H. SAUVAGE, Buffalo, N. Y. Filed Aug. 7, 1919. Serial No. 315,908. 8 Claims. (Cl. 74—120.)



1. In a hand brake mechanism in combination, a casing, a threaded power shaft, a rack on the inner surface of the casing, and a member movable on rotation of the shaft and engaging said rack for applying the brakes.

1,343,009. HAND-BRAKE. WILLIAM H. SAUVAGE, Flushing, N. Y., assignor to Atlantic Hand Brake Corporation, Buffalo, N. Y. Filed Aug. 7, 1919. Serial No. 315,911. 7 Claims. (Cl. 74—120.)

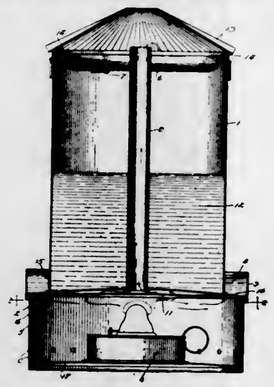


1. In a hand brake mechanism, in combination, a support, a rotatable member carried thereby, a member having a telescopic threaded engagement therein, and means adapted to prevent overload being transmitted to the brake rigging.

1,343,010. POULTRY-FOUNTAIN AND HEATER THEREFOR. THEODORE SCHELL, Macomb, Ill., assignor to American Steel Products Co., Macomb, Ill., a Corporation of Illinois. Filed May 5, 1919. Serial No. 294,930. 6 Claims. (Cl. 119—73.)

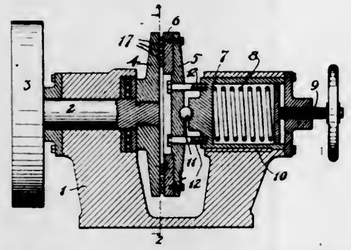
1. In a drinking fountain, a base having air openings, a heater in the base, a water tank on the base having a trough which overlies the base, a chimney in the tank extending through the bottom thereof, and a heat deflector extending over the lower end of the chimney and spaced from the bottom of the tank and also spaced at its periphery from the side walls of the base whereby the heat

will be first laterally deflected and will impinge against the bottom beneath the trough and in said space between the



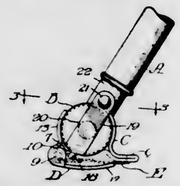
side walls of the base and the deflector periphery and will then pass over the deflector and under the tank bottom and enter the chimney.

1,343,011. BALL-LAPPING MACHINE. ROLAND WINCHESTER SELLEW, Middletown, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 16, 1919. Serial No. 324,054. 3 Claims. (Cl. 51—4.)



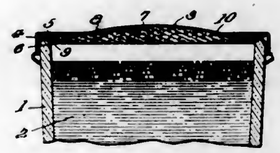
1. In a ball lapping machine, a frame, two plates facing each other, one of said plates having a helical groove in its face arranged to receive balls to be operated upon, means for yieldingly pressing said plates toward each other and for applying said pressure at substantially the center of said plate to secure balanced action, one of said plates being rotatable relatively to the other and one of said plates being mounted for universal movement relatively to the other.

1,343,012. ELECTRIC SAFETY-RAZOR. HANS SENGEBUSCH, Chicago, Ill. Filed July 2, 1917. Serial No. 178,122. 14 Claims. (Cl. 30—12.)



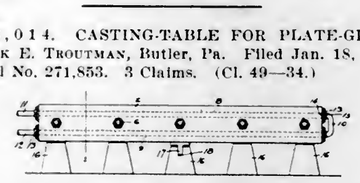
1. An electrically operated safety razor of the type wherein means are provided to movably support a vibratory armature at one end and to detachably connect the free end thereof with a blade, so that the armature and blade vibrate in unison, and with the momentum of the armature substantially in the same direction as that of the blade, the magnet being disposed in position to act upon the middle portion of said armature and being wound to receive alternating current to electrically cause endwise sliding movement of the blade relatively to a guard in one direction, and wherein a spring is provided for mechanically actuating the armature and blade in the opposite direction, characterized by this, to-wit:—that guiding means for the blade are provided, including a hinged clamping member to hold said blade in operative position, in combination with means for removably holding the magnet and to prevent removal of the blade except by first removing the magnet from the structure in which the blade is held.

1,343,013. CLOSURE FOR JELLY-GLASSES OR THE LIKE. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed Sept. 6, 1919. Serial No. 322,044. 3 Claims. (Cl. 215—80.)



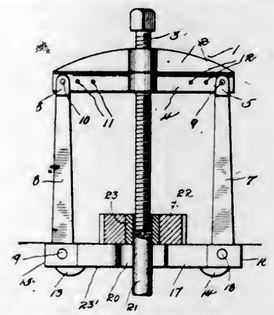
3. A closure for containers comprising a top portion having a depending flange for engagement with the body portion of said container, said top portion having a recess formed in its inner face, the outer diameter of said recess being smaller than the inner diameter of said container at the extreme upper edge thereof, and a sealing material molded into said recess and adheringly secured to said container, said sealing material when melted flowing down on to the contents of the container and sealing the same.

1,343,014. CASTING-TABLE FOR PLATE-GLASS. FRANK E. TROUTMAN, Butler, Pa. Filed Jan. 18, 1919. Serial No. 271,853. 3 Claims. (Cl. 49—34.)



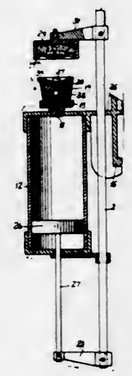
1. A casing table for plate glass having passages for the cooling and heating medium, said passages being arranged in the plate at different heights and connected at their ends.

1,343,015. ARBOR-PRESS. HARRY D. TWOMBLY, Norfolk, Nebr., assignor to Crane Puller Company, Arlington, Mass., a Corporation of Massachusetts. Filed Dec. 19, 1916. Serial No. 137,922. 4 Claims. (Cl. 29—85.)



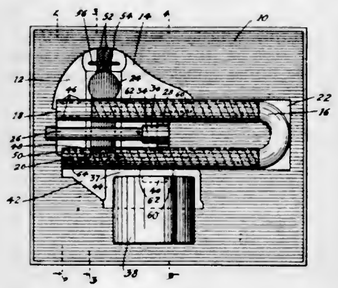
4. An arbor press comprising a yoke, adjustable arms pivotally connected thereto, a base having a recess, and bolts connecting said arms to said base, said arms having heads engaging the under side of said base.

1,343,016. CASTING APPARATUS. FRANCIS H. VALLENDER, Arlington, Mass. Filed Jan. 29, 1920. Serial No. 355,015. 2 Claims. (Cl. 22—73.)



1. A casting apparatus comprising a supporting structure, including an air pump cylinder, and a flask seat on one end of the cylinder, said head and seat having an air duct constituting the air intake of the cylinder, a carrier movable relatively to said structure, a piston and a platen connected with said carrier and movable in unison thereby, said piston being adapted to exhaust air into the cylinder from an investment in a mold flask supported by said seat, and the platen being adapted to exert downward pressure on said investment, and means for moving said carrier to simultaneously move the platen and the piston.

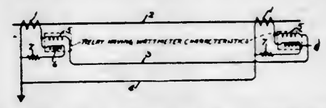
1,343,017. PROCESS OF CASTING. JOSEPH L. WARE, Minneapolis, Minn. Filed June 20, 1919. Serial No. 305,589. 4 Claims. (Cl. 22—200.)



1. The process of manufacturing metal articles having relatively movable parts which consists in forming a mold of the article by means of a pattern, removing said pattern, wrapping with sheet asbestos a member which is to form part of the article, securing the sheet asbestos in place upon this member, placing said covered member in the mold and filling the remaining portion of the same with molten metal.

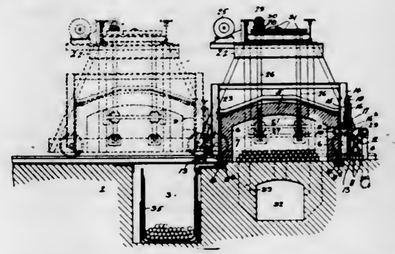
1,343,018. PROTECTIVE DEVICE. EDMUND BASIL WEDMORE, Hendon, England, assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,011. 6 Claims. (Cl. 175—294.)

1. In a protective system for an electric feeder, the combination with a transformer at each end of said feeder, pilot wires connecting the secondaries of said transformers in an external circuit, and a relay at each end of said feeder comprising two windings, one winding excited by the current in the pilot wire, and the other winding excited by a current proportional to the load current in said



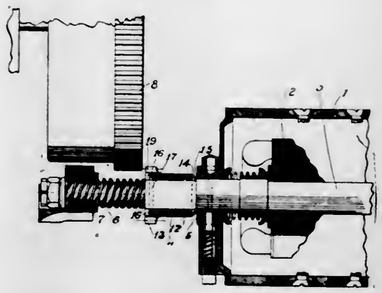
feeder, and means for changing the phase relations of said currents to compensate for the capacity current normally flowing in said pilot wire circuit.

1,343,019. ANNEALING-FURNACE. MALCOLM U. WIKSTROM, Charleroi, Pa., assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 1, 1918. Serial No. 214,856. 8 Claims. (Cl. 263—6.)



1. In a furnace, the combination with a suitable bottom, of a movable furnace inclosing section adapted to rest thereon, a receptacle below said bottom, and means for moving said movable section laterally whereby the articles on said bottom engaged by said moving section will be discharged into said receptacle.

1,343,020. ENGINE-STARTING APPARATUS. LIONEL M. WOOLSON, Detroit, Mich., assignor to Bijur Motor Appliance Company, a Corporation of Delaware. Filed June 20, 1919. Serial No. 305,535. 14 Claims. (Cl. 290—48.)

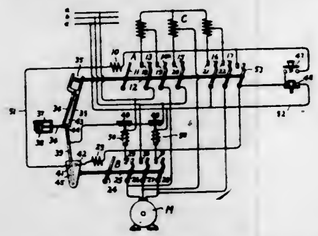


1. In an engine-starter, in combination, a gear connected to an engine, a motor, a pinion connected thereto, adapted to mesh with said gear but normally out of engagement therewith, and means responsive to a butting engagement of said pinion with said gear, operative to move said gear to relieve said butt.

1,343,021. CONTROLLER FOR ELECTRIC MOTORS. PAUL H. ZIMMER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 8, 1919. Serial No. 270,170. 6 Claims. (Cl. 172—289.)

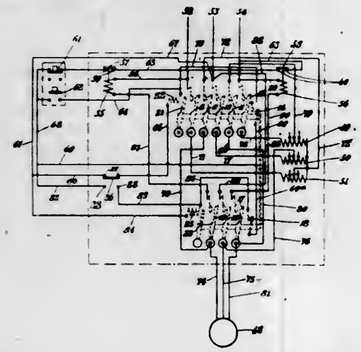
2. A controller for electric motors comprising two electromagnetically operated switches, one for starting and

one for running, a manually operated switch for controlling the starting switch, a time element device for controlling the circuits of said electromagnetic switches and normally in a position to energize the starting switch,



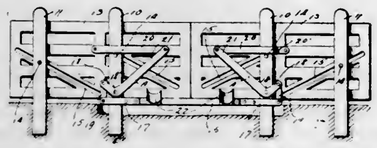
means for setting the time element device in operation upon the closing of the starting switch, and connections whereby the time element device deënergizes the starting switch and immediately thereafter energizes the running switch.

1,343,022. STARTING DEVICE FOR ELECTRIC MOTORS. PAUL H. ZIMMER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 25, 1919. Serial No. 273,155. 7 Claims. (Cl. 172—289.)



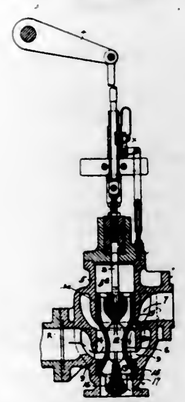
1. The combination with two sets of switches, of electromagnets for operating each of said sets, a switch for controlling the circuit through said electromagnets and having a normal tendency to maintain the circuit through the magnet of the first set of switches closed and the magnet of the second set of switches open, a time element device operated by the closing of the first set of switches for operating said switch to open the circuit through the magnet of the first set of switches and close the circuit through the magnet of the second set of switches, and means governed by the second set of switches for maintaining said switch in said position until the second set of switches is closed.

1,343,023. AUTOMATIC GATE. EDWARD BACH, Livingston, Mont. Filed Mar. 18, 1920. Serial No. 366,899. 1 Claim. (Cl. 39—18.)



In an approach opening gate, the combination with a plurality of alined and bifurcated posts, transverse bolts disposed through the posts, a pair of gates slidable within the bifurcations of the posts and having longitudinal and inclined slots receiving the said bolts therethrough, a bar disposed horizontally between the inner of the posts and extending across the gateway, inclined approaches movably connected with the bar and extending away from the opposite sides of the gateway, angle levers pivotally mounted on the said inner posts, links connected to the angle levers and to the gates, and links connected to the angle levers and to the ends of the said bar.

1,343,024. LIFTING-CYLINDER VALVE FOR FORGING-PRESSES. ARNOLD P. BARK, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, of Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 11, 1919. Serial No. 289,339. 9 Claims. (Cl. 138—16.)



1. In a valve for steam hydraulic presses, the combination with the valve casing having ports leading from the steam supply, to the lifting cylinder, and to the exhaust, of a reciprocating valve in said casing controlling said port to the lifting cylinder, said valve being provided with a central knob at one end to receive the impinging steam from the lifting cylinder and to balance the pressure on the valve.

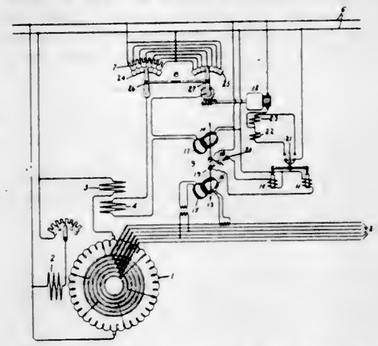
1,343,025. LONG-BASE SINGLE-OBSERVER RANGE-FINDER. ARCHIBALD BARR and WILLIAM STROUD, Anniesland, Glasgow, Scotland. Filed Jan. 15, 1919. Serial No. 271,279. 7 Claims. (Cl. 88—2.6.)



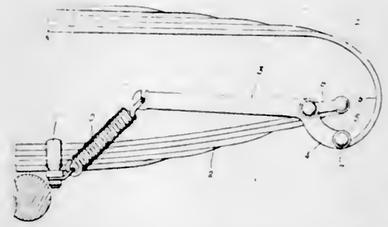
6. A self-contained-base single observer rangefinder having a double telescope system, a reflector at each end of the base, one for each telescope of the double telescope system, in combination with an optical system in which one real image at least is formed inserted between one of the telescopes and its associated reflector, the magnification of which system is fixed and in the plane of triangulation is exactly unity, said optical system having end lenses at a material distance apart and optical means situated between the end lenses, for the purposes set forth.

1,343,026. ROTARY TRANSFORMER. THEOPHILUS F. Barton, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 27, 1919. Serial No. 300,127. 12 Claims. (Cl. 171—123.)

1. In combination, alternating current mains, a single armature rotary transformer connected thereto and having a commutating field winding, and means for exciting said commutating field winding substantially in proportion to the wattless component of the alternating current taken by said rotary transformer.

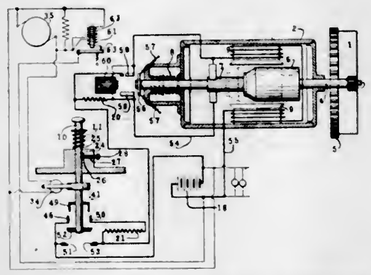


1,343,027. SHOCK-ABSORBER. NORMAN F. BECK, Kokomo, Ind. Filed July 26, 1919. Serial No. 313,513. 5 Claims. (Cl. 267—17.)



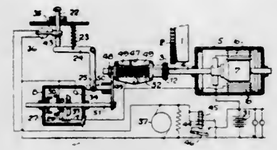
1. In a shock absorber, the combination with a pair of vehicle spring sections, of a lever structure having arms rigid with one end thereof and depending therefrom, means for pivotally connecting one of said spring sections with the free ends of said arms, means for pivotally connecting said lever to the other spring section, the pivot point of the lever being above and offset from the pivotal connection between said arms and spring section connected thereto, and a shock absorbing spring attached at one end to said lever structure and at its opposite end to a fixed point.

1,343,028. ENGINE-STARTING APPARATUS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed May 5, 1913. Serial No. 765,423. 22 Claims. (Cl. 290—36.)



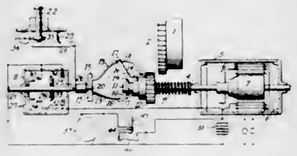
4. The method of starting an engine, comprising supplying current to a motor to spin the same, an appreciable interval of time thereafter decelerating said motor by braking it, engaging said motor with said engine during the braking operation, supplying current to said motor to enable it to start said engine, and disengaging said motor from said engine when said engine begins to rotate under its own power.

1,343,029. ENGINE-STARTING APPARATUS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Original application filed June 25, 1913, Serial No. 775,670. Renewed Nov. 23, 1918. Serial No. 263,947. Divided and this application filed Feb. 24, 1919. Serial No. 278,918. 24 Claims. (Cl. 290—36.)



12. In starting apparatus for motor vehicles, in combination, a gear connected to be driven from an internal combustion engine, an electric starting motor, a shaft driven from said motor, a pinion mounted on said shaft in position to move endwise into mesh with said gear, a manually actuated member mounted to move along said shaft and a spring coiled about said shaft and interposed between said last member and said pinion through which force is exerted upon said pinion to move the same into mesh with said gear.

1,343,030. ENGINE-STARTING APPARATUS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Original application filed June 25, 1913, Serial No. 775,670. Renewed Nov. 23, 1918. Serial No. 263,947. Divided and this application filed Feb. 24, 1919. Serial No. 278,919. 12 Claims. (Cl. 290—36.)

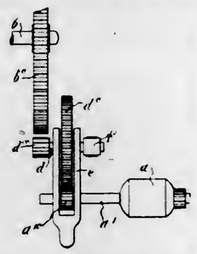


1. In engine starting apparatus for motor vehicles, in combination, a gear connected to be driven from an internal combustion engine, an electric starting motor, a shaft driven from said motor, a pinion mounted coaxial with said shaft in position to move endwise into mesh with said gear, and means for transmitting an impulse to move said pinion into meshing position including a resilient device, said resilient device being secured in position at points spaced from the axis of said pinion and disposed for equilibrium thereof in any position relative to said shaft.

1,343,031. GEAR-COUPLING. PIERRE BOSSU, Neuilly-sur-Seine, France. Filed Apr. 19, 1919. Serial No. 291,353. 8 Claims. (Cl. 74—7.)

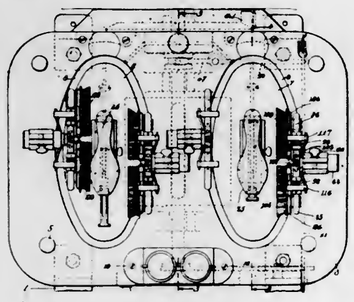
2. A rocking coupling for gearing comprising a motor shaft, a rocking frame thereon, a gear on said shaft, a driven shaft having a gear mounted thereon, an axle rotatable in said frame, gearing thereon, driven by the gear on the motor shaft, said gearing being normally out

of engagement with the gear on the shaft to be driven, a brake device adapted to act on the axle in all positions



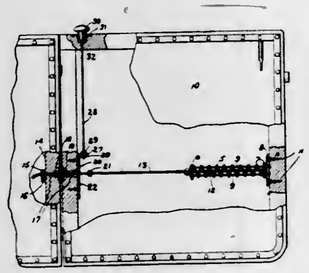
of the frame except when said axle gearing is in engagement with the gear on the shaft to be driven, and abutments for the frame to limit its rocking motion.

1,343,032. SHOE-SHINING MACHINE. CONSTANTINE CALDES, Jersey City, N. J. Filed Dec. 27, 1916. Serial No. 139,107. 8 Claims. (Cl. 15—61.)



1. In a shoe shining machine of the character described, a support for the shoes, brush holders, means for moving said brush holders back and forth for more than half a revolution, said means including supporting standards, and a guide for said holders formed with an elliptical slot, said standards extending through said slot.

1,343,033. DOOR-SPRING. JOHN ALPHEUS CAMPBELL, Carbondale, Ill. Filed May 24, 1919. Serial No. 299,492. 2 Claims. (Cl. 16—9.)

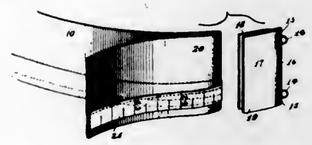


2. A device of the character described for attachment to a door and adapted to be concealed within the frame thereof having a recess therein, comprising, in combination, a spring member, means for securing one end of said spring member fixedly to the frame of the door, a flexible member, means for securing one end of said flexible member to the opposite end of said spring member and for clamping the other end of said flexible member to the jamb of the door; an adjustable stop carried by said flexible member and a sliding plate intermediate said stop and said recess in the frame of the door, operable from without said door, coöperating to limit the outward swing of said door and to prevent said spring member from closing the door.

1,343,034. GERMICIDE AND INSECTICIDE. LEWIS CHEESEMAN, Hatfield, Mass. Filed Mar. 6, 1919. Serial No. 280,929. 2 Claims. (Cl. 167—6.)

1. A germicide and insecticide including the alkaline earth base barium as hydrate and sulf-hydrate, and another alkaline earth base mixed therewith.

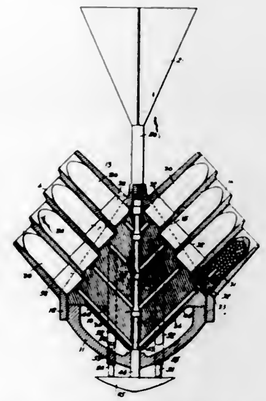
1,343,035. WAISTBAND. BEATHA CLARK, Brooklyn, N. Y. Filed Feb. 4, 1919. Serial No. 274,951. 10 Claims. (Cl. 2—142.)



1. As an article of manufacture, a waistband for attachment to garments, comprising a band doubled up lengthwise at one end, a fastening member attached to the said doubled-up end of the band, a connecting band member formed of a piece of fabric material doubled up lengthwise to provide two integral flaps adapted to receive the free end of the said band between them, and a fastening member attached to the doubled-up end of the said connecting band member and adapted to engage the said fastening member on the band.

8. A ready-to-insert waistband for dresses, with fastening means at one end; and connecting means arranged to receive the other free band end for repeated sewings after necessary adjustments for band length, with complementary fastening means to fit on the first fastening means.

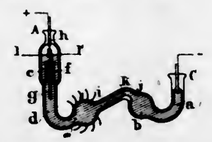
1,343,036. AERIAL BOMB. GEORGE ELWOOD COOK, Brooklyn, N. Y. Filed Sept. 25, 1918. Serial No. 255,625. 4 Claims. (Cl. 102—2.)



1. A bomb comprising a conical body provided with tiers of integral barrels, the barrels in each tier being inclined outwardly and each adapted to contain a shell, said body having bottom chambers charged with explosives.

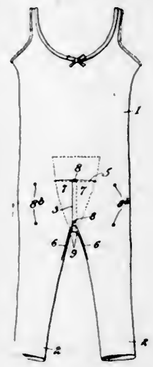
actuating means slidable in said body and having a member projecting downwardly from the bottom of the body and adapted to engage an object to push the actuating means upwardly, said actuating means having camming portions, upwardly and outwardly disposed igniting means for each shell mounted on said body and controlled by said camming portions of the actuating means, and igniting means for said explosives in the chambers and controlled by said actuating means.

1,343,037. MERCURY-VAPOR LAMP. MARIE JOSEPH CORNU, Paris, France. Filed Jan. 5, 1918. Serial No. 210,583. 5 Claims. (Cl. 176—42.)



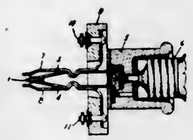
1. A mercury-vapor electric lamp, comprising a mercury tube having cooling chambers and a thick walled-bent quartz portion connecting the chambers, the cathode end of the tube being closed and the anode end provided with means for damping the oscillations of the mercury, and means for varying the pressure in the tube.

1,343,038. LADY'S COMBINATION-UNDERGARMENT. ALEXANDER K. CZECHOWICZ, Alden Station, Pa. Filed Apr. 7, 1920. Serial No. 371,936. 2 Claims. (Cl. 2—144.)



1. In a garment of the class described, wherein the drawers have a continuous central opening extending around the crotch from front to rear with the usual closing means at the rear, a pair of flaps at the front of the drawers to permit said opening to be widened, a pair of supplemental rear flaps at the rear below the said closing means, and means for holding said flaps in open position.

1,343,039. ELECTRICAL CUT-OUT. CHRISTIAN DANTSIZEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 8, 1917. Serial No. 185,176. 3 Claims. (Cl. 200—118.)

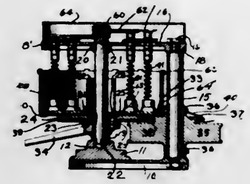


1. An electrical circuit containing a current-consuming device and an electrical cut-out comprising oxidized aluminum connected to complete a shunt circuit across the terminals of said device when subjected to a predetermined difference of potential.

1,343,040. PORCELAIN. CHRISTIAN DANTSIZEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 3, 1918. Serial No. 265,160. 10 Claims. (Cl. 106—11.)

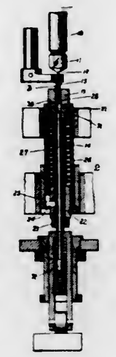
6. A porcelain containing zirconium oxid.

1,343,041. COMBINED ORE GRINDER AND AMALGAMATOR. WILLIAM DE COURSEY, San Francisco, Calif. Filed Feb. 9, 1918. Serial No. 216,170. 6 Claims. (Cl. 83—45.)



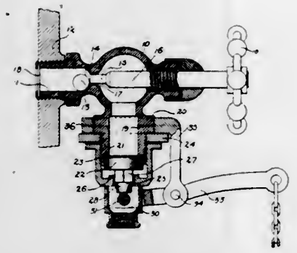
1. In a grinder of the class described, the combination with a pan rotating on an upright central shaft and having a grinding surface; of a series of shafts disposed around and in parallelism with said central shaft and operatively connected therewith for simultaneous rotation, each shaft of said series having a finger depending eccentrically from its lower end, a head whose lower face coacts with said grinding surface, the head having a recess for said shaft and an off-center socket in the bottom of the recess for its finger, and a spring on the shaft bearing the head normally downward.

1,343,042. PEARL-BUTTON MACHINE. PAUL F. DUSHA, New York, and ANTON FEYK, Bohemia, N. Y., assignors to Holub-Dusha Company, New York, N. Y., a Corporation. Filed Oct. 17, 1919. Serial No. 331,339. 7 Claims. (Cl. 79—14.)



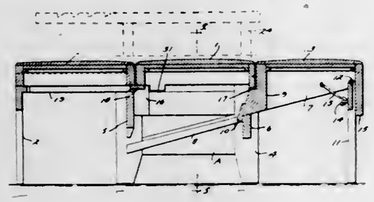
1. In a machine for drilling shank buttons, the combination with a drill, means to rotate the drill around its axis, and means to support a button with the shank in said axis and with the spot to be drilled close to the plane of the back face of the button, of a device constituting a combined button shank holder and drill guide, said device being located between the button and the drill holder and having an undercut chisel edge to engage the button shank on opposite sides of said spot.

1,343,043. TEST-VALVE. GEORGE ERNST, Newark, N. J. Filed May 31, 1919. Serial No. 300,909. 2 Claims. (Cl. 251—133.)



1. The herein described test valve for steam boilers or the like comprising a body having a tubular extension with a circular collar and a threaded nipple projecting beyond the collar, a supporting device comprising an arm and a ring journaled for rotation upon said collar, means to hold the ring on the collar including a nut engaging said threaded extension and having a flat outer end constituting a seat on the outside, said nut having an inwardly directed valve seat on the inside, a disk shaped valve within the nut and adapted to bear outward against said valve seat, and means supported on said supporting arm and movable against said outside seat to unseat the valve from the valve seat.

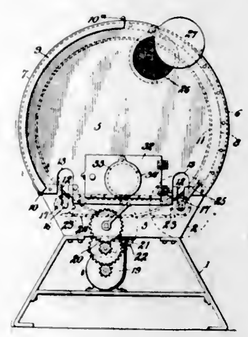
1,343,044. CHAIR-BED. WILLIAM E. ESCHENBRENNER, New York, N. Y., assignor of one-half to Henry W. Eschenbrenner, New York, N. Y. Filed Nov. 20, 1919. Serial No. 339,483. 2 Claims. (Cl. 5—46.)



1. A combination chair and bed, comprising a main section, removable arm frames on said main section, a seat cushion on the main section, a back cushion, a rod across the arms supporting the back cushion when the device is in use as a chair, a rearwardly movable frame having sliding engagement with the main section and adapted to support the back cushion when the latter is in horizontal position, a forwardly movable extension normally under the seat cushion, inclined guides on the main section supporting the extension, a tongue on the extension engaging the main section and limiting its forward movement, legs hingedly connected to said extension, and braces adapted to hold the legs in vertical position when the extension is in its forward position and permit said legs to fold upwardly when the extension is moved to its rearward position.

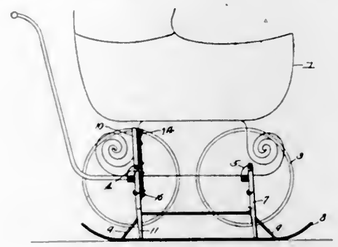
1,343,045. TIRE-HEATER. JOHN J. FAHRNEY, Timberville, Va., assignor of one-half to Ernest M. Hoover, Timberville, Va. Filed Jan. 14, 1919. Serial No. 271,173. 7 Claims. (Cl. 263—4.)

3. A tire heater comprising a casing with a fire chamber at the lower portion, the sides of the casing having upright matching slots in the opposite sides, journal blocks adapted to the slots for adjustment to different heights, and supporting rollers for the tires adapted to matching pairs of bearing blocks lodged in the slots, said casing having a pair of matching and independently adjustable guide fingers at its upper portion for engaging tires of



different sizes and widths and holding them on the supporting rollers, and said supporting rollers being located on opposite sides of and above the fire chamber out of the path of gases of combustion rising from the fire chamber.

1,343,046. SLEIGH-RUNNER ATTACHMENT FOR BABY-CARRIAGES AND OTHER VEHICLES. HANS FLECKL, Boyds, and WILLIAM JOSEPH BOYD, Chewelah, Wash. Filed Sept. 18, 1919. Serial No. 324,441. 3 Claims. (Cl. 280—11.)

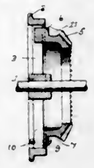


3. A sleigh-runner attachment for vehicles, including a pair of rods adapted to be pivotally secured at their upper ends to an axle of a vehicle, a second pair of rods adapted to be pivotally secured at a point below the center of their extremities to another axle of such vehicle, further rods hingedly secured to the lower ends of the first-named rods, runners secured to the lower ends of such latter rods, the rods mounted intermediate their extremities being secured together by means of a crossbar, a U-shaped member slidably mounted upon such rods and having its base portion extending parallel to such crossbar, springs interposed between such crossbar and base of the U-shaped member, and ears mounted upon the lower-most set of rods adjacent their upper ends, the lower ends of the legs of the U-shaped member adapted to pass through such ears.

1,343,047. GEAR. JOHN F. FRANKLIN, Dlo, Miss. Filed Nov. 13, 1919. Serial No. 337,692. 3 Claims. (Cl. 74—28.)

1. A locomotive driving gear comprising a hub, a rim, spokes intermediate the hub and rim and having intermediate portions of dove-tail form, a gear of annular form, having a beveled toothed portion and also having a flange separated from said toothed portion by a circumferentially grooved portion, blocks formed at intervals within the circumferentially grooved portion; said gear

being provided in its face with radial dove-tail notches that snugly receive the dove-tailed portions of the spokes, and connecting bolts extending through registered apertures in the spokes and back walls of the notches; said bolts being spaced from the blocks of the circumferentially grooved portion.

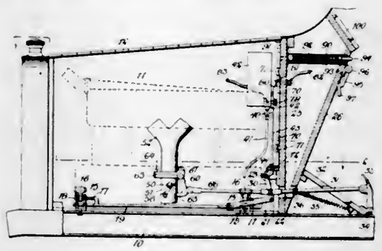


1,343,048. PERMUTATION-LOCK. JOHN P. GERAGHTY, Jersey City, N. J. Filed Apr. 18, 1919. Serial No. 291,028. 2 Claims. (Cl. 70—53.)



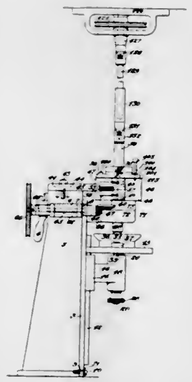
1. A lock, comprising a frame fixed on one of the parts to be locked together, the frame having a recess, a locking arm mounted to swing on the other part and adapted to engage with its free end the said recess, a locking slide mounted to slide on the said frame and adapted to overlie the free end of the said locking arm, a seal carried by said free end of the locking arm, said locking slide having an aperture through which to view said seal, and a series of concentric ring tumblers mounted to turn in the said frame and engaging the said slide to hold the latter against movement when in locking position, the said tumblers being arranged to register with each other to allow of moving the slide into unlocking position relative to the said hinged arm.

1,343,049. LOCKING DEVICE FOR AUTOMOBILES. JOHN P. GERAGHTY, Jersey City, N. J. Filed May 3, 1919. Serial No. 294,622. 6 Claims. (Cl. 180—82.)



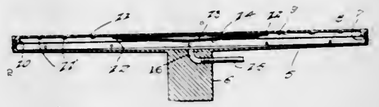
1. In a motor driven vehicle, a motor, a hood inclosing the motor, a locking device within the hood for locking the latter, a plurality of motor controlling devices arranged within the hood and connected with different members of the motor for rendering the latter ineffective, a rock shaft within the hood and connected with the said hood locking device and the said plurality of motor controlling devices to simultaneously actuate the same, operating means controlled by an operator and connected with the said shaft to actuate the same, and locking means controlled by an operator and connected with the said shaft to lock the latter against rotation after the said hood locking device and the said plurality of motor controlling devices have been moved into operative position.

1,343,050. LENS-GRINDING MACHINE. CHARLES GOODWIN, East Providence, R. I., assignor to Edgar W. Martin, Barrington, R. I., Laurence C. Martin, Providence, R. I., and George W. Bleecker, Chicago, Ill., trustees of Martin-Copeland Company. Filed Jan. 7, 1918. Serial No. 210,751. 10 Claims. (Cl. 51—120.)



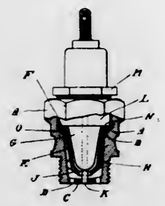
3. In an apparatus for grinding lenses, the combination with a work-holder for the lens-blank, of a rotary grinding-spindle, means to rotate said spindle, a pair of spaced bearings for the spindle, one of which has a fixed relation to the work-holder, means to revolve one of said bearings to oscillate the spindle gyroscopically about the axis of the other fixed bearing, and means to adjust the relation of the bearings to regulate the extent of oscillation of the spindle.

1,343,051. FREEZING ATTACHMENT FOR MICROTOMES. HAROLD I. GOSLINE, Worcester, Mass. Filed Nov. 23, 1916. Serial No. 132,990. 2 Claims. (Cl. 62—92.)



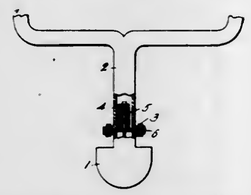
1. A freezing attachment for microtomes comprising a chamber having a top plate of considerable area and provided with exhaust ports, an inverted conical diffuser located within said chamber and having its peripheral edge spaced from the under side of said top plate and provided with perforations, and a freezing medium supply pipe discharging into the chamber at the apex of said diffuser, the spacing of the upper edge of the diffuser from the top plate and the perforations in the diffuser causing such a uniform distribution of the freezing medium within the chamber as to bring about a rapid lowering of the temperature of said top plate uniformly throughout its entire area.

1,343,052. SPARKING PLUG FOR IGNITION PURPOSES. ARTHUR ERNEST HEATH, London, England. Filed Sept. 29, 1919. Serial No. 327,015. 3 Claims. (Cl. 123—169.)



1. In sparking plugs for ignition purposes having a baffle provided with a ring of holes, a tubular sleeve positioned and held within the plug body and surrounding the insulator carrying the central electrode at that part exposed to the hot gases, a space being provided on each side of the sleeve, substantially as and for the purposes set forth.

1,343,053. FUEL-VAPORIZER FOR COMBUSTION-ENGINES. CHESTER G. HEDGES, Chase, Kans. Filed Apr. 9, 1918. Serial No. 227,520. 2 Claims. (Cl. 219—38.)



1. A device of the class described including a cylindrical casing having laterally extending pins on its inner face and a core in said casing with a plurality of pins radiating therefrom and alternating with the pins of the casing, and means for supplying heat to said casing and core.

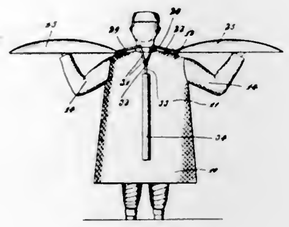
1,343,054. EASEL. CLARKE STANLEY HURLBUT, Philadelphia, Pa. Filed Nov. 20, 1919. Serial No. 339,342. 1 Claim. (Cl. 40—146.)



An easel consisting of a substantially circular body of sheet material having two radially extending cuts in its lower edge, said cuts providing two separated supporting points for the body and forming a segmental tongue adapted to be displaced from between said points at an angle to the body to provide a third supporting point.

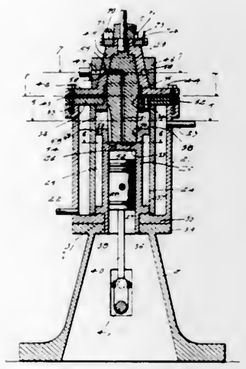
1,343,055. AERONAUTIC DEVICE. JOHN KROPACZ, Calgary, Alberta, Canada, assignor of one-third to Joseph Jakuriez, Calgary, Alberta, Canada. Filed Feb. 5, 1919. Serial No. 275,079. 1 Claim. (Cl. 244—9.)

In a device of the character described comprising a garment, a plurality of inflatable pockets in said garment arranged in series, means for connecting the pockets of each series, brackets on the shoulder parts of said garments, wings concavo-convex in cross section and ovoid in contour hinged with their inner ends to said brackets, handles in said wings for operating the same, a cylindrical tube on the back of said garment, a plunger in said tube



and a coiled compression spring in said tube below said plunger for normally holding the same outward, and connections between said plunger and said wings for pressing said plunger into said tube against the action of said spring, substantially as described and for the purpose set forth.

1,343,056. EXPANSION-ENGINE. AUGUST VICTOR LARSON, Brooklyn, N. Y. Filed June 8, 1918. Serial No. 238,933. 9 Claims. (Cl. 60—59.)

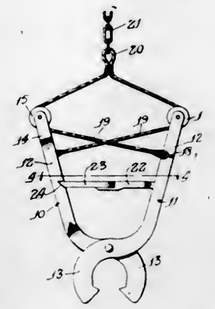


1. An expansion engine having a heating element, a compression chamber provided with compression and exhaust ports, said heating element consisting of a steam jacket surrounding the compression chamber, a cylinder, inlet and exhaust ports, and means for successively establishing communication between said ports and the cylinder.

1,343,057. TONGS. ALBERT H. LEE, Portland, Oreg. Filed May 29, 1919. Serial No. 300,591. 1 Claim. (Cl. 294—118.)

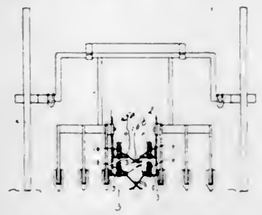
A pair of lifting tongs comprising two members crossing and pivoted to each other and having shanks at their upper ends and jaws at their lower ends, and a lifting cable having branches connected with the respective shanks; combined with a spreader composed of two arms

connected end to end by a knuckle joint, and means for pivoting the outer end of one arm to one shank, the inner



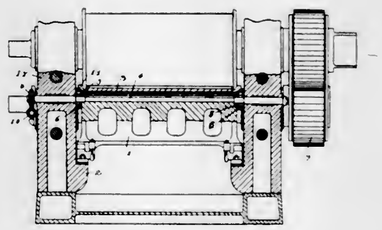
edge of the opposite shank having a notch for receiving the outer end of the other arm, whereby inward pressure of said shanks will hold the arms alined, as described.

1,343,058. WEEDING ATTACHMENT FOR CULTIVATORS. CHARLES M. LONG, Keota, Iowa, and MARTIN V. LONG, Rock Island, Ill. Filed Mar. 13, 1920. Serial No. 365,542. 5 Claims. (Cl. 97—33.)



1. In a weeding attachment for cultivators, the combination with a cultivator frame, of a depending support thereon, adjustable feet carried by the lower ends of said supports, supporting pins carried by the feet, sleeves rotatably adjustable on the pins, weeding elements having coils at their forward portions mounted upon the sleeves and fixed relatively thereto, holders or guides for the cultivating elements and carried by the feet, and means for fitting the sleeves in position in order to tension the rearwardly extending arms of the weeding element.

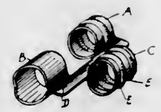
1,343,059. TRASH-TURNER. JAMES MILLER, Derby, England, assignor of one-half to George Fletcher & Company Limited. Filed Nov. 8, 1919. Serial No. 336,741. 5 Claims. (Cl. 100—47.)



1. A sugar cane crushing mill comprising rollers, a trash turner, adjustment means at each end of said trash turner and means to simultaneously operate said adjustment means.

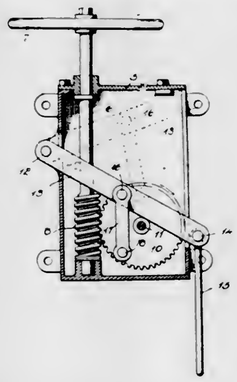
5. A sugar cane crushing mill comprising head stocks, rollers mounted in said head stocks, a hollow trash turner, adjustment means on each end of said trash turner, operating means for said adjustment means and means interconnecting the adjustment means and passing through said hollow trash turner.

1,343,060. CONSTRUCTION OF LINKS FOR AMMUNITION-BELTS FOR MACHINE-GUNS. WILLIAM DE COURCY PRIDEAUX, Weymouth, England. Filed Mar. 8, 1918. Serial No. 221,323. 2 Claims. (Cl. 89—35.)



1. In ammunition belts adapted to pass through the feed block of a machine gun, a link formed from a flat blank of sheet metal and comprising a bridge-piece connecting two clips at opposite ends thereof, said clips being bent into circular form and spaced apart, a single circularly bent clip at the center of the said bridge-piece at a point between the first-mentioned clips, the said single clip having enlargements extending therefrom for lifting the bullet end of the connecting cartridge clear of the walls of the feed block.

1,343,061. HAND-BRAKE. WILLARD F. RICHARDS, Depew, N. Y., assignor, by mesne assignments, to The Atlantic Hand Brake Corporation. Filed Aug. 7, 1919. Serial No. 315,917. 8 Claims. (Cl. 74—120.)

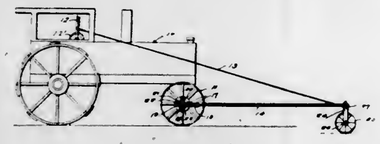


1. In a brake mechanism, in combination, a worm, a pinion adapted to be turned as the brakes are applied, a lever connected with the brake rigging, and means including a floating link for moving said lever about its fulcrum interposed between the lever and the pinion.

1,343,062. STEERING DEVICE. HARRY A. ROAN, Brooking, Saskatchewan, Canada. Filed Oct. 2, 1919. Serial No. 327,897. 2 Claims. (Cl. 97—81.)

1. An attachment of the character described comprising a stub shaft, a collar carried by the stub shaft for fitting about the hub of a wheel and against the spokes of a wheel, means for connecting the collar with the spokes of the wheel, a bearing loosely mounted upon the stub shaft, means releasably mounted upon the stub shaft upon opposite sides of the bearing for retaining the same against

sliding movement longitudinally upon the stub shaft, a lever arm connected with the bearing, a ground wheel

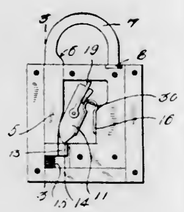


having a yoke pivotally connected with the free end portion of the lever, and means for imparting turning movement to the yoke.

1,343,063. AMMONIUM-NITRATE EXPLOSIVE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Jan. 14, 1919. Serial No. 271,175. 9 Claims. (Cl. 52—3.)

1. An explosive containing ammonium nitrate in excess of 40% of the entire mixture, nitro-starch and a finely divided material of high covering power interspersed among the particles of said ammonium nitrate.

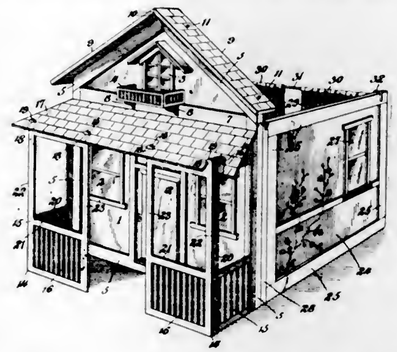
1,343,064. LOCK. FRANK SOBIN, Coatesville, Pa. Filed Apr. 7, 1917. Serial No. 160,489. 1 Claim. (Cl. 70—108.)



A lock comprising a frame consisting of end members and a bottom member connecting the lower ends of said end members, front and rear cover plates secured to the frame, and said front cover plate having a groove in its inner face, an inner frame secured to the first named frame and consisting of a vertical member having angularly related ends disposed in spaced relation to one of the vertical members of the first named frame to provide a shackle slideway, a shackle having one long leg and a short leg, and said long leg slidable in said slideway, one of the angular ends of the inner frame having a recess to receive the end of the short leg of the shackle, lugs formed on the end of the long leg of the shackle and extending angularly to each other and one of said lugs received by the groove of the front cover plate, a dog pivoted to the cover plates and located for movement within the inner frame, a spring having one end bearing against the vertical member of the inner frame and its other end bearing against the dog for forcing one end thereof to normally engage the other lug, and a spring between the first named frame and the end of the long leg of the shackle to force the same outwardly of the slideway when the dog is disengaged from the last named lug.

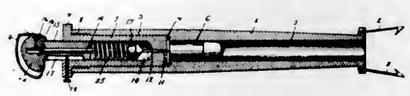
1,343,065. DOLL-HOUSE. KUNISUKE SUYEHIRO, Eureka, Utah. Filed Jan. 4, 1919. Serial No. 269,560. 3 Claims. (Cl. 46—35.)

1. A doll house comprising a front wall shaped and ornamented to simulate the front of a house having a porch and porch roof, and constructed so as to be supported upon a floor, rearwardly extended side walls hinged at their front edges to the opposite front edges of the front wall so as to fold inwardly and adapted to be folded flat one upon the other against the rear face of the front wall, said side walls being shaped and ornamented to simulate the sides of a house and resting at their lower edges upon the floor, and spaced apart at



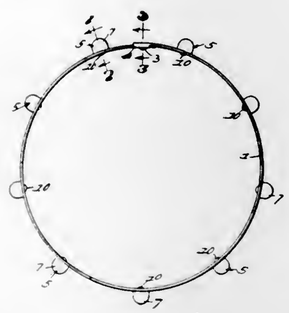
their rear ends, a curtain for closing the space between the rear ends of the side walls, and a rod for supporting the curtain, the said rod being provided with a spring clip at each end, said clip being sprung over and engaging with the top edges of the side walls, so as to hold the side walls rigidly in proper relation to the front wall of the structure.

1,343,066. TRAP-GUN. GEORGE H. THOMPSON, Summerland, Calif., assignor of one-half to Lee Omar De Rieux, Santa Barbara, Calif. Filed Mar. 31, 1919. Serial No. 286,319. 4 Claims. (Cl. 43—84.)



1. A trap gun comprising a barrel, a breech block, a spring controlled firing pin in said breech block, a flexible member engaging said firing pin for maintaining the same in a retracted position, and means for causing said member to flex and release the firing pin.

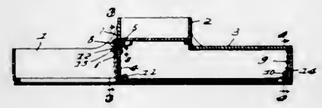
1,343,067. REEL FOR HOLDING BARBED OR OTHER WIRE. THOMAS L. THOMPSON, Chetek, Wis. Filed July 23, 1918. Serial No. 246,335. 2 Claims. (Cl. 242—115.)



2. A wire holding reel comprising a resilient annular supporting band formed adjacent one end with inturned

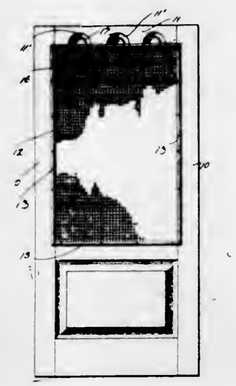
flanges between which the other end of the band rests, a fastener detachably securing the ends of the band together, and a plurality of U-shaped holders connected to the outer face of the band and disposed at uniform distances thereabout.

1,343,068. BUGGY-BODY. FREDRICK TUCKER, Lafayette, Ala. Filed July 3, 1919. Serial No. 308,399. 5 Claims. (Cl. 296—76.)



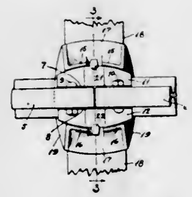
1. The combination with a buggy body having a seat supporting means disposed substantially intermediate its length, of a cover member hingedly attached to the seat supporting means and swinging down to a position of closure for that part of the body behind said means, a hingedly mounted door carried in the body and movable to a position of closure for that portion of the body which the cover member closes, a flexible member connected with said cover member, and a locking means for said door, the flexible member being engageable with said locking means.

1,343,069. FLY-EXIT FOR SCREEN DOORS AND WINDOWS. ROBERT B. WATSON and JESSE C. KITTERMAN, Corydon, Ind. Filed Dec. 2, 1919. Serial No. 341,997. 1 Claim. (Cl. 156—37.)



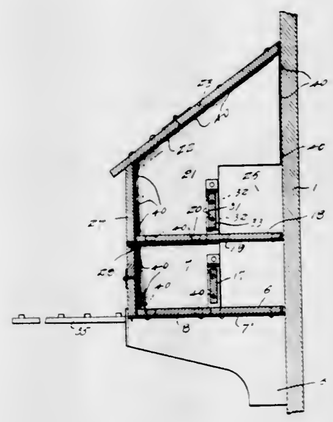
A fly exit comprising a frame having side and top portions, the top portion being formed with transverse open ended recesses in the lower face thereof, wire screen secured to the outer face of the screen with its upper edge covering one end of each of the recesses, a screen secured to the other face of the frame and having its upper edge disposed below the recesses whereby said recesses are open thereat, and fly passages between the screens and extending into the recesses and formed with transverse passages closed at one end by the first screen and open at the other ends.

1,343,070. RAIL-JOINT. MERLE J. WIGHTMAN, Seattle, Wash., assignor, by mesne assignments, to Railway's Accessories Company, Seattle, Wash., a Corporation of Washington. Filed Sept. 12, 1917. Serial No. 190,870. 14 Claims. (Cl. 238—279.)



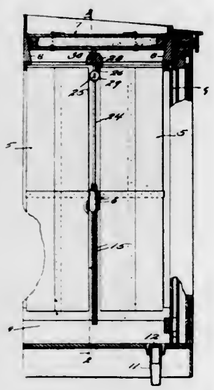
5. A rail joint including a tie plate having a pair of spaced oppositely longitudinally curved flanges that project upwardly therefrom.

1,343,071. NEST. GEORGE H. WILLIAMS, Kearney, Nebr. Filed Aug. 12, 1919. Serial No. 316,944. 1 Claim. (Cl. 119—45.)



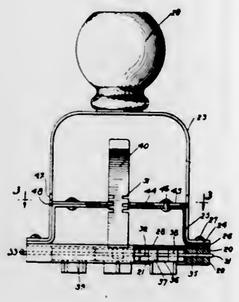
A device of the character described including a wall of a building, brackets secured to the wall of the building, a runway secured to said brackets, a nest flooring secured to the runway, end walls secured to the brackets and the nest flooring, a removable partition secured to the end walls, a second runway arranged above the first named runway, a nest flooring secured to the second named runway, end walls secured to the second named nest flooring and detachably secured to the wall of a building and having cut out portions forming doorways to the upper runway, a cover secured to the second named end walls and having a hinged section, means adjustably securing the hinged section of the door to the second named end walls, a second partition secured to the second named end walls, a front wall having a hinged section detachably secured to the first named end walls, means adjustably securing the hinged section to the first named end walls, a front wall detachably secured to the second named end walls and having its upper edge beveled to be engaged by the movable section of the cover.

1,343,072. BRINE-VALVE. HARRY ACKROYD, East Chicago, Ind. Filed Aug. 3, 1917. Serial No. 184,298. 11 Claims. (Cl. 137—21.)



9. The combination, with a tank, and a movable cover therefor; of a valve mechanism for controlling the discharge of the liquid contents of the tank, operatively associated with said cover to be automatically opened when the cover is moved in one direction, and automatically closed when the cover is moved in the other direction.

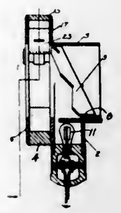
1,343,073. MARKING DEVICE. GEORGE J. ANDERSON and WILLIAM RODOLPH SMITH, Cleveland, Ohio., said Anderson assignor to said Smith. Filed Mar. 27, 1919. Serial No. 285,516. 27 Claims. (Cl. 101—368.)



1. A device of the class described comprising a base, means associated with said base for its manipulation, a holder movably carried by said base and adapted to be held in different operative positions relative thereto, and a die carried by said holder, having pairs of spaced, perforated lugs at opposite sides thereof engaging said holder.

1,343,074. ILLUMINATING ATTACHMENT FOR TELESCOPES. ELLIS LOVE BECK, Manor, Pa. Filed Feb. 11, 1919. Serial No. 276,252. 5 Claims. (Cl. 88—32.)

1. A device for illuminating the cross hairs of a telescope, comprising a casing having means for attaching it to a telescope and provided with a laterally extending light cell, a light in said cell, and a plurality of annularly arranged and inwardly projecting angular reflectors in the casing for reflecting the light into the telescope to which the device is applied.

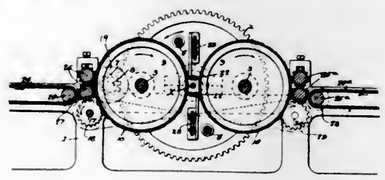


1,343,075. ENVELOP. CHARLES L. BENEDICT, Toronto, Ontario, Canada. Filed June 23, 1919. Serial No. 306,273. 2 Claims. (Cl. 229—68.)



1. An envelop having an aperture through which a postage stamp is adapted to be sealed to an inclosure, the envelop being provided adjacent to the aperture with a plurality of slits to provide a stamp supporting portion; which may be depressed independently of the remainder of the envelop, and whereby the stamp supporting portion may yield independently of the face of the envelop to prevent accidental detachment of the stamp from the inclosure.

1,343,076. MACHINE FOR COVERING WIRE WITH FIBROUS MATERIAL. JAMES BOOTH, Philadelphia, Pa. Filed Apr. 5, 1919. Serial No. 287,807. 9 Claims. (Cl. 28—6.)

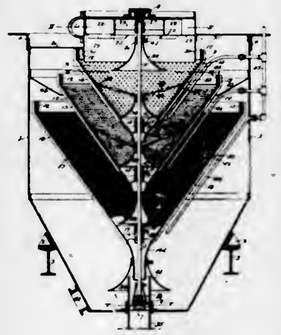


1. The combination in a machine for covering wire with a fibrous material, of a frame; a carrier mounted in the frame; means for driving the carrier at a given speed; two toothed cylinders, the peripheries of said cylinders projecting the same distance from the center of rotation of the carrier; means for turning the cylinders in their bearings while being rotated by the carrier; and means for feeding fibrous material to the toothed cylinders so that the toothed cylinders will receive material from the feeding means and will deposit it onto a wire passing through the center of the machine.

1,343,077. AMMONIUM-NITRATE EXPLOSIVE. JESSE B. BRONSTEIN and CHARLES E. WALLER, Allentown, Pa., assignors to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1920. Serial No. 356,478. 25 Claims. (Cl. 52—3.)

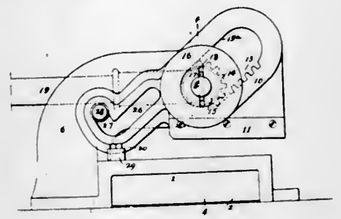
5. An explosive comprising a substantially non-explosive mixture of ammonium nitrate and trinitrotoluene, and sufficient of a detonating agent to render the mixture explosive.

1,343,078. STRAINER FOR SUGAR-JUICE. MARTIN E. CARTER, Philadelphia, Pa. Filed Aug. 16, 1916, Serial No. 115,185. Renewed Feb. 7, 1919. Serial No. 275,677. 16 Claims. (Cl. 210—25.)



1. In a strainer for sugar juices and the like, the combination of a casing, a vertical shaft mounted therein, a deep funnel-shaped straining screen carried by said shaft, means for introducing juice to said screen, means for rotating the screen, a substantially cone-shaped member forming a contracted annular outlet adjacent the bottom of the screen and serving to divert the bulk of the juice for passage through said screen, and separate outlets leading from the bottom of the casing for the discharge of juice and the material strained therefrom.

1,343,079. SHEARS. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 19, 1919. Serial No. 318,473. 5 Claims. (Cl. 164—57.)



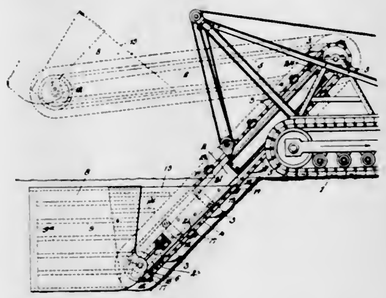
1. The combination of a base; an overhanging arm projecting from the base; a shaft; a handle on one end of said shaft; a gear wheel on the other end of said shaft; a movable portion carrying a cutting blade having an elongated opening in which the gear wheel is mounted, one wall of the opening having teeth meshing with the teeth of the gear wheel; a guide pin on the overhanging arm, the movable portion of the shears having a slot into which the guide pin extends so that on rotating said shaft the movable shear blade is given a downward shearing and drawing action against the base.

1,343,080. BUTTON. ROBERT W. FOX, West Frankfort, Ill. Filed Feb. 17, 1920. Serial No. 359,266. 7 Claims. (Cl. 24—96.)



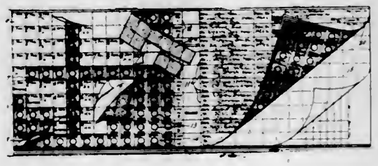
6. A button fastener comprising front and back plates having central apertures for the passage of the shank of the button head, the front plate also having two other apertures, and tangs on the back adapted to be passed through the cloth and through said other apertures and clenched upon the front plate.

1,343,081. TRENCHING-MACHINE. JOHN JOSEPH HAMMEN, Spencer, Iowa. Filed May 9, 1919. Serial No. 295,950. 17 Claims. (Cl. 37—24.)



5. In a trench digging machine provided with a boom and an endless series of buckets carried thereby, a curb pivoted at its lower forward end to the lower end of the boom, said curb comprising side plates connected together in spaced relation to engage the side walls of a formed trench, whereby the curb serves as a protection for workmen engaged in laying pipe in the trench and the curb will maintain its position in the bottom of the trench irrespective of variations in the relation of the boom and curb, said boom carrying shields on opposite sides fixed to the boom and telescoping with the forward end of the curb, and said curb having a series of spacing members connecting the sides of the curb near the front and rear ends thereof, whereby working room is obtained within the curb between the series of spacing members.

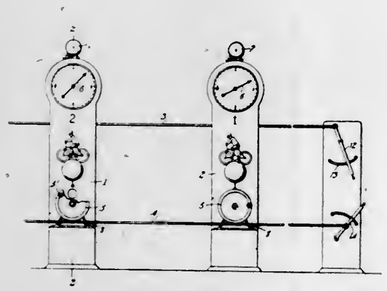
1,343,082. ACCOUNT-BOOK. ALEXANDER HEISTERKAMP, Hoboken, N. J. Filed Aug. 29, 1918. Serial No. 251,915. 6 Claims. (Cl. 283—63.)



1. In a book, a page having a plurality of delineated spaces with markings indicating dates, a second gummed page disposed adjacent the first page and having a plurality of delineated spaces normally registering with the

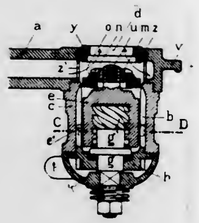
spaces on the first page, the spaces on the second page being separated by perforations, the portions of the second page bounded by the said perforations having marks identifying their normal positions with reference to the spaces on the first page with which they register, and a third waxed page disposed between the first two pages and having perforations inclosing spaces registering with the spaces on the first two pages.

1,343,083. AMUSEMENT DEVICE. JACOB IRSCH, New York, N. Y. Filed Aug. 13, 1919. Serial No. 317,224. 11 Claims. (Cl. 46—56.)



1. An amusement device comprising a plurality of stations or sections, a movable pointer arranged at each station, a sounding device arranged at each station, a manually operated member for actuating said pointer and said sounding device in such a manner that the sounding device will be sounded when the pointer has made one revolution, and means for disconnecting the pointer and manually operated member when the manually operated member is being moved faster than a predetermined speed, means for re-setting said pointer, and means operable at a distance for locking said manually operated member.

1,343,084. HOSE-COUPLING ESPECIALLY APPLICABLE TO PRESSURE AND VACUUM BRAKE PIPES. ERNST KESSLER, Biel, Switzerland. Filed Oct. 31, 1919. Serial No. 334,844. 5 Claims. (Cl. 284—10.)



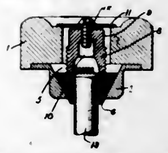
1. A hose-coupling comprising a coupler-head, a valve seating within said head, an annular valve loose in said head, an internally threaded block slidably mounted in said head, a closing cap rotatably mounted on the coupler-head and a screwed stem rigidly secured to said cap.

1,343,085. LIQUID-DISPENSING DEVICE. WILLIAM F. LERCH, Hartford, Conn. Filed Aug. 14, 1919. Serial No. 317,539. 5 Claims. (Cl. 128—237.)



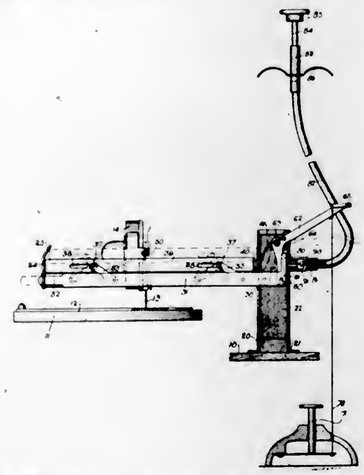
1. A device of the character described, comprising a container, a tube movably mounted in one end of the container, a disk in the container held against turning movement, said tube having an inlet controlled by the disk.

1,343,086. VALVE-HANDLE. WINFIELD SCOTT NEIL, Minot, N. D. Filed Mar. 18, 1919. Serial No. 283,348. 3 Claims. (Cl. 279—60.)



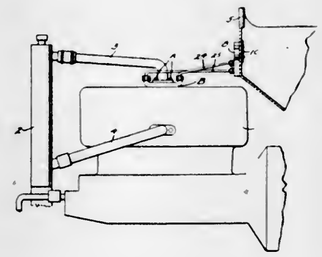
1. A valve handle including a main body portion formed with an interiorly screw-threaded opening, and being further provided with grooves of gradually decreasing depth extending diagonally through the screw threads, wedges seated within said grooves, and a threaded rod engaging said screw threads and bearing against the upper faces of the wedges.

1,343,087. REPEATING DEVICE FOR SOUND-REPRODUCING MACHINES. EDWARD PEREMI, Brooklyn, N. Y. Filed June 5, 1919. Serial No. 301,873. 6 Claims. (Cl. 274—14.)



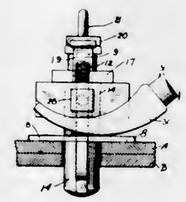
1. A repeating device for sound reproducing machines having a sound box provided with a stylus adapted to engage a sound groove in a record, comprising a lifting means attached to the said sound box, a movable lifting bar engaged by the said lifting means and extending across the sound grooves of a record in position on the sound reproducing machine, and means imparting successively upward, outward, downward and inward movements to the said lifting bar to raise the sound box and thereby lifting the stylus out of engagement with the record grooves, then carrying the sound box bodily outward and then lowering it to reëngage the stylus of the sound box with the sound groove in the record.

1,343,088. TEMPERATURE-INDICATOR FOR ENGINE-WATER CIRCULATION. GEORGE P. PITKIN, Bergenfield, N. J. Filed Nov. 18, 1919. Serial No. 338,937. 4 Claims. (Cl. 73—52.)



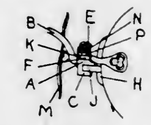
1. The combination with a motor vehicle, of a casing secured to the automobile and spaced from the engine, a thermometer in the casing, a coupling secured between a water manifold and the engine casing, said coupling having deflectors therein and having passages at opposite sides of the deflectors, and pipes connecting said passages with said casing.

1,343,089. CLAMP-BOLT. EDWARD J. RUQUET, Jr., New York, N. Y. Filed Apr. 18, 1919. Serial No. 290,944. 11 Claims. (Cl. 85—5.)



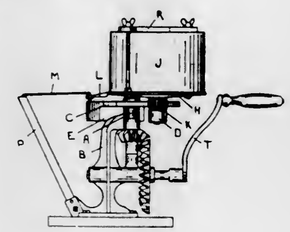
10. A clamp bolt for holding material together comprising in combination, a slotted pin, a pair of key clamps, a spreader key, a head formed on the slotted pin, and a wedge inserted between the head and material to be clamped for drawing the slotted pin with the key clamps into clamping engagement with the material to be secured together.

1,343,090. CONSTRUCTION OF OPHTHALMIC MOUNTINGS. OSCAR GEORGE SCHUTZE, Forestville, near Adelaide, South Australia, Australia. Filed Apr. 8, 1919. Serial No. 288,597. 9 Claims. (Cl. 88—42.)



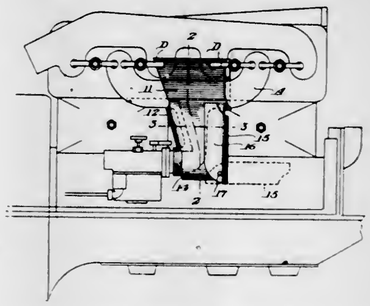
1. In an ophthalmic mounting, a bridge, a box upon the end of the bridge having openings at the front and back, a lens mounting provided with a bar rigid therewith and extending into the box, and a set screw clamping the bar in the box in the desired position.

1,343,091. MACHINE FOR MAKING BUTTER. JOHN ALEXANDER SHEARER, Henley Beach, South Australia, Australia, assignor of one-third to Richard Harry Niehuus, St. Peters, South Australia, Australia, and one-third to Stanley Charles Mellor, Fulham, South Australia, Australia. Filed Oct. 11, 1919. Serial No. 330,053. 2 Claims. (Cl. 259—72.)



1. A machine for the purpose set forth comprising in combination; a vertical spindle having upon its upper end a horizontal disk; a table for the receptacle, with means for securing the receptacle thereon, having at about its center a downwardly projecting pin rotatable in a socket in the horizontal disk near its edge, and having a projecting arm connected to the top of a stationary post; means for rotating the vertical spindle and horizontal disk; and a suitable frame or base carrying the said vertical spindle, the stationary post and the means for rotating the vertical spindle, substantially as described.

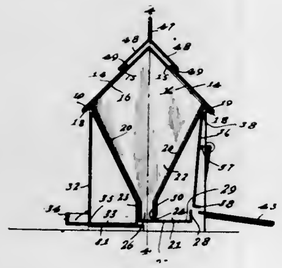
1,343,092. HEATER FOR INTAKE-MANIFOLDS. GEORGE C. SHINN, Vancouver, Wash. Filed July 18, 1919. Serial No. 311,709. 4 Claims. (Cl. 263—5.)



1. The combination with an intake manifold and an exhaust manifold of an engine, and means for securing

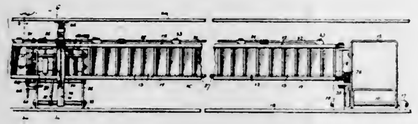
said manifolds together, of a casing formed from a single blank of material and designed to envelop said intake manifold, and the free ends of said material from which the casing is formed being arranged in parallelism and held associated by said means utilized for securing said manifolds together.

1,343,093. CHICK-FEEDER. FRED R. SHOULTZ, Lansing, Mich. Filed July 21, 1919. Serial No. 312,202. 3 Claims. (Cl. 119—55.)



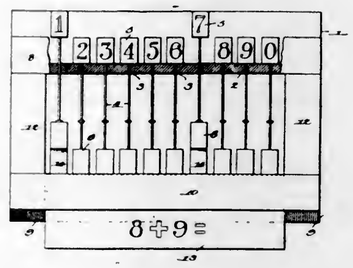
1. A casing having a feed hopper therein which has its side walls inclined inwardly and which is constructed of resilient material, a trough at the lower and delivery end of the hopper extending outward in one direction therefrom, a pivoted door on the casing, weighted means for influencing the same in one direction whereby to normally close the trough and to bring one end of the door in contact with the hopper, a platform extending outwardly from the hopper and pivotally secured to the ends of the casing, a link connection between the platform and the weighted means for the door whereby to influence the latter when weight is imparted on the platform to swing the door to open position to unclose the hopper and to permit the lower edge of the door contacting with the hopper to agitate the feed therein, counter-balancing means comprising a water receptacle removably arranged in the casing at the side thereof opposite that provided with the door.

1,343,094. ACCOMMODATION-LADDER FOR MARINE VESSELS. EDWARD JAMES SIMS, Brooklyn, N. Y. Filed Nov. 14, 1918. Serial No. 262,517. 11 Claims. (Cl. 228—54.)



1. An accommodation ladder for marine vessels, comprising a stairway, a pivot on which the upper end of the stairway is mounted to swing, means normally supporting the stairway edgewise on one side of the vessel and including an arm mounted to swing up and down on the vessel and having an angular rest on which rests one of the stringers of the stairway to normally support the ladder edgewise on the side of the vessel, means for bodily swinging the stairway downwardly and outwardly on the side of the vessel to lie down flat in horizontal position, and means connected with the free end of the stairway for swinging the stairway downward to assume an inclined position on the side of the vessel.

1,343,095. EDUCATIONAL APPLIANCE. THEODORE M. SMITH, New York, N. Y., assignor of one-half to Henry Hagenau, New York, N. Y. Filed Apr. 9, 1920. Serial No. 372,610. 4 Claims. (Cl. 35—12.)

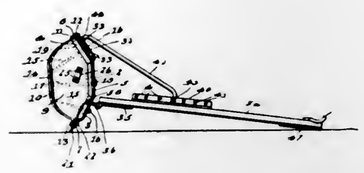


1. An educational appliance comprising a plurality of plungers having normally concealed heads and provided with abutment pieces, and a plurality of master plates each adapted to effect movement of a different combination of said plungers for exposing their heads.

1,343,096. SOFT-COLLAR BUTTON. JOHN E. SPEYER, Le Grand, Calif., assignor of one-half to Arthur L. Hedges, San Francisco, Calif. Filed June 26, 1918. Serial No. 242,058. 1 Claim. (Cl. 24—73.)

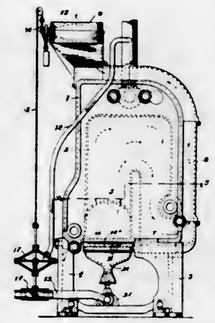
A soft collar holder comprising: a substantially inverted V shaped bar having a loop formed at its apex for engagement with the collar button, and its ends also looped, and a pair of buttons each having an eye for loose connection with a looped end of the bar.

1,343,097. TAIL-BOARD SCRAPER. GEORGE SWAIN SPEYER, Fallon, Nev. Filed Dec. 18, 1918. Serial No. 267,268. 1 Claim. (Cl. 37—5.)



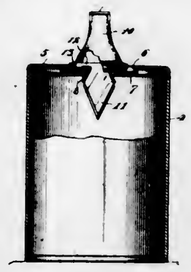
In a scraper of the character described, a body comprising a back, said back being curved, end members projecting from the front side of the back and having rounded edges, a vertically disposed blade arranged against the front side of the back and projecting below the lower edge thereof, straps secured to the rear side of the back and projecting above and below the edges thereof, said blade being arranged between the back and said end members, shoes covering the rounded front edges of the ends and having their upper ends secured to the upper adjacent ends of said straps, the lower ends of said straps bearing against one side of the blade, the corresponding ends of the shoes bearing against the opposite side of the blade and a common fastening means for securing the adjacent ends of the strap and shoes to the blade as described.

1,343,098. PROCESS AND APPARATUS FOR BURNING GASEOUS FUEL WITH HIGH EFFICIENCY. THOMAS J. STEPHENS, New Castle, Pa., assignor to Stephens Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed July 11, 1919. Serial No. 310,138. 4 Claims. (Cl. 158—110.)



3. In a Bunsen burner, a plate having flues therethrough superimposed thereon, a plate above the first-named plate having flues of greater diameter than the first-named flues there-through and adapted to register and concentric with the first-named flues, said first-named plate having air ducts on the upper side thereof communicating with said last-named flues, the top of the first-named plate and the bottom of the second-named plate being substantially in alinement.

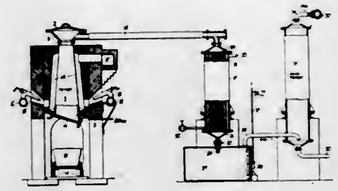
1,343,099. SLIP-COVER FOR CANS. HERMAN L. STRONGSON, Springfield, Mass., assignor to Loeb-Strongson Corporation, New York, N. Y., a Corporation of New York. Filed June 5, 1919. Serial No. 301,907. 2 Claims. (Cl. 65—61.)



1. A slip cover for cans and the like comprising; a cylindrical container opened at one end and approximately closed at the other end, a flange formed on the cylindrical container to contact the can within the container, said flange having an opening, a pouring spout and a clamp blade inserted through the opening to clamp the can and slip cover together so the can may be lifted by holding the slip cover and decant liquid through the pouring spout.

1,343,100. METHOD OF OBTAINING MOTOR-FUELS AND LIGHT PARAFFIN-OILS FROM SHALE; AND BENZENE, TOLUENE, AND SOLVENT NAPHTHA FROM COAL. EDWARD WILLIAM THURLOW, Brighton, Victoria, Australia. Filed Aug. 28, 1917. Serial No. 188,633. 8 Claims. (Cl. 196—21.)

2. In the process of obtaining motor fuels and light paraffin oils from shale the improvement which comprises mixing the shale, in the form of small lumps, with some finely-divided material, which under the action of heat,



will give off carbonic-acid gas, and with a finely divided metal, and subjecting the mixture to destructive distillation.

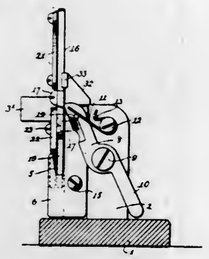
1,343,101. INSULATED TOOL. JOHN ALBERT WEAVER, Baltimore, Md. Filed June 25, 1919. Serial No. 306,567. 2 Claims. (Cl. 145—51.)



1. A tool or implement of the character described comprising a handle formed of insulating material, a metallic shank secured at its inner end within said handle and projecting axially therefrom, a rigid longitudinally movable insulating sleeve encompassing the portion of the shank outside of the handle and extending within the handle and adapted to be moved longitudinally to uncover the extreme outer end of said shank, and means within the handle and engaging said sleeve to permit the uncovering of the outer end of shank when in use and also to automatically restore the sleeve to its complete encompassing position upon release of the extreme end of the shank from its work.

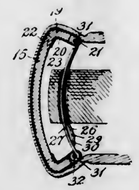
2. A tool or implement of the character described comprising a handle formed of insulating material, a metallic shank secured at its inner end within said handle and projecting axially therefrom, a rigid longitudinally movable insulating sleeve encompassing the portion of the shank outside of the handle and also extending within the handle, said sleeve adapted to be moved longitudinally to uncover the extreme outer end of said shank, elastic means within the handle and engaging the inner end of said sleeve, whereby the same may be moved longitudinally to permit uncovering of the outer end of the shank when in use and also to automatically return the same to its complete encompassing position upon release of the extreme outer end of the shank from its work, said sleeve having an elongated slot in one side, the handle having a transverse opening in its side wall and opposite said elongated slot, a stop pin projecting through said transverse opening and into said slot, and a removable plug or stopper of insulating material sealing said transverse opening, whereby circuiting through the stop pin will be prevented.

1,343,102. SLUB-CATCHER. FRITZ WEBER, New York, N. Y. Filed Aug. 30, 1919. Serial No. 320,907. 10 Claims. (Cl. 28—20.)



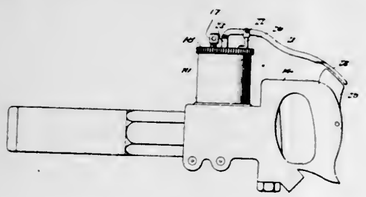
1. A device of the character stated, comprising a cutter, a movable member normally holding the cutter out of operation, a trigger located in the path of movement of the thread, and a link connecting the trigger and the movable member.

1,343,103. LOOSE-LEAF BOOK. ERNEST A. P. WOLF, New York, N. Y. Filed May 6, 1919. Serial No. 295,059. 10 Claims. (Cl. 129—13.)



3. The combination with a back and mating side boards, of a leaf binder carried by the back and comprising a pair of leaf springs each possessing a different normal curvature and having free end portions arranged in sliding engagement with each other, and means for detachably securing said springs to said back.

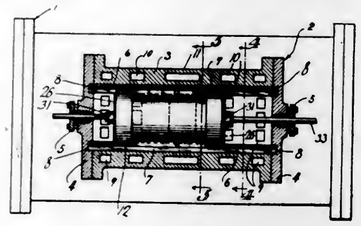
1,343,104. LUBRICATING DEVICE FOR RIVETING-HAMMERS. JOHN AUTORINO, Middletown, N. Y. Filed Sept. 19, 1919. Serial No. 324,884. 3 Claims. (Cl. 184—65.)



2. The combination with the casing of a riveting hammer and a trigger for said hammer, of an oil receptacle carried by the casing, a valve for the receptacle, a stem for the valve, and a pivoted arm connected with the stem and extending to a point above the trigger, permitting of the simultaneous operation of said trigger and arm.

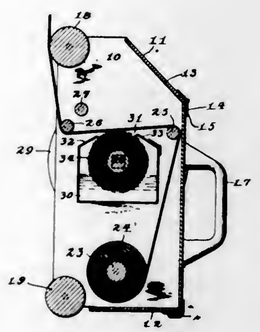
1,343,105. BALANCED PISTON-VALVE. GEORGE W. BAKER, Maytown, and GEORGE WILLIAMS, Wyano, Pa. Filed Feb 14, 1920. Serial No. 358,571. 3 Claims. (Cl. 121—193.)

1. In a device of the class described, a valve chest; guides extended longitudinally of the chest; a valve comprising trough-shaped members between which the guides are located, the members of the valve being reduced in diameter intermediate their ends to define a circumscribing external recess on the valve, and end pieces within



the trough-shaped members, the end pieces having ports establishing communication between the ends of the valve chest and the interior of the valve; and a rod mounted in the end pieces of the valve.

1,343,106. PAPER-HANGER MACHINE. ROBERT JOHN BANSE, Philadelphia, Pa. Filed Dec. 30, 1919. Serial No. 348,265. 2 Claims. (Cl. 216—6.)

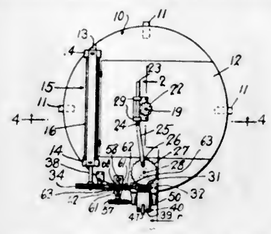


1. A device of the character described comprising a box-like casing open at its bottom and having a hinged cover provided with means for holding the same normally closed, handle members on said cover, presser rollers journaled at the corners of said casing adjacent the open bottom thereof and projecting beyond the open bottom for engagement with a wall or ceiling, a plurality of transverse guide rollers journaled between the sides of said casing, a transverse shaft journaled through said casing, relatively large wheels secured upon said shaft externally of the casing, a paste containing receptacle journally mounted upon said shaft within the casing, a brush head carried by said shaft and disposed within said paste receptacle, and a mandrel detachably journaled between the sides of said casing and adapted to support a roll of wall paper, the paper being trained about selected ones of said rollers.

1,343,107. HYDRAULIC WASHING-MACHINE. BERTALAN BARÁTH, Akron, Ohio. Filed Dec. 6, 1918. Serial No. 265,617. 1 Claim. (Cl. 74—36.)

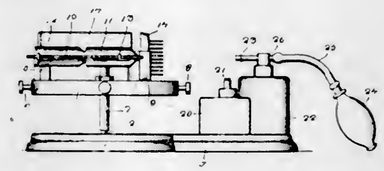
A motor having a worm on the shaft thereof, a worm wheel engaging said worm and having a shaft also provided with a worm, a two-part shaft arranged angularly of the last mentioned shaft and having a loose worm wheel thereon which engages with the worm of the last

mentioned shaft clutch means between the worm wheel and the sections of the two-part shaft for locking the worm



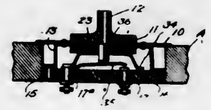
wheel to either or both sections of the said shaft, and mechanism connected with and actuated by each section of the two-part shaft.

1,343,108. STERILIZING APPARATUS. ISAAC W. P. BUCHANAN, Lebanon, Tenn. Filed July 22, 1918, Serial No. 246,080. Renewed Apr. 24, 1920. Serial No. 376,423. 7 Claims. (Cl. 167—3.)



1. The combination in a sterilizer, of flame-throwing means, and a movable holder for an article to be sterilized, arranged when actuated to present the article to the flame at intervals.

1,343,109. ELECTRIC-LIGHT SWITCH. DENNIS A. BYERLY, Terre Haute, Ind. Filed Aug. 26, 1919. Serial No. 319,895. 1 Claim. (Cl. 200—164.)



A control switch of the character described comprising a stationary front plate provided with a hole, a cup-shaped casing secured to the rear face of said plate and having an outwardly extending flange, a rear plate of insulating material secured to said flange and forming a rear closure, a plurality of contacts arranged in circumferential series on said rear plate, a circular handle member extending through the opening in said front plate, a block of insulating material secured to said handle member within said casing, and a pair of contact members secured upon said block, one of said last named contact members including a pair of spring fingers engageable selectively with one of the contacts carried by said back plate and further including a pair of spring fingers selectively engageable with certain of said contact members and the other second named contact member including a pair of spring fingers selectively engageable with the remaining ones of said first named contact members.

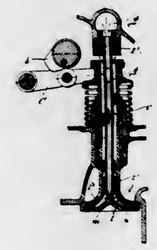
1,343,110. COMBINED ADVANCE-DISCOUNT VOUCHER-CHECK, ORDER, AND COMMERCIAL LETTER. JAMES H. CAMP, Ravenswood, W. Va. Filed July 12, 1919. Serial No. 310,305. 1 Claim. (Cl. 283—58.)

A device of the character described, comprising a sheet one face of which bears an inscription which is in effect a letter from the manufacturer or promoter to a proposed purchaser offering a stated amount of goods for sale and a certain amount of money payable to the purchaser as a discount and a reference to an accompanying check for the amount of said discount, said sheet having upon its opposite face an inscription which is in effect a letter from the purchaser to the manufacturer or promoter stating that the check referred to in the letter from the manufacturer or promoter has been used and that the offer of the goods for sale has been accepted; and a second sheet



detachably secured to the first named sheet, said second sheet bearing upon one face thereof and upon the same side of the device with the first named letter a blank check form, said last named face having an inscription designating in effect that the indorsement of the check constitutes an acceptance of the order on the opposite face of the check, said second sheet bearing upon its opposite face an inscription designating in effect an order of goods and its acceptance by the purchaser, and an indorsement of the check by the purchaser.

1,343,111. COOLING ARRANGEMENT FOR EXHAUST-VALVES OF INTERNAL-COMBUSTION ENGINES. GIUSTINO CATTANEO, Milan, Italy. Filed Mar. 26, 1919. Serial No. 285,328. 3 Claims. (Cl. 123—177.)

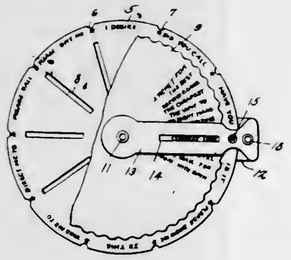


1. An exhaust valve cooling arrangement for internal combustion engines including in combination, a casing forming a chamber and a cover, a hollow valve composed of a head and a stem slidably arranged through the chamber, a duct in the cover, a nozzle connected with the duct, a central pipe coaxial within the valve stem and operatively connected with the nozzle, a funnel shaped diaphragm on the lower end of the pipe and suspended substantially at mid height within the valve head so as to divide the head into two superimposed compartments, the upper of which communicates with the chamber, while the lower communicates with the central pipe, and the diaphragm being provided with openings for establishing communication between the upper and lower compartments in the valve head.

1,343,112. TRANSLATING-CHART. MARC F. CHARRIER, Akron, Ohio. Filed Mar. 12, 1920. Serial No. 365,235. 2 Claims. (Cl. 35—12.)

1. In a translator, a disk having a series of indicating indicia on its face, phrases between the said indicia, a

disk having a plurality of radially appearing phrases on one side and a series of radially appearing phrases on the opposite side in a different language, the phrases on one side being diametrically opposite the like phrases in the different language on the opposite side, means for mounting the second mentioned disk in rotatable super-imposed relation to the first-mentioned disk, the said first mentioned disk having slots and phrases on the disk at the margin of the slots in the translated language, the said translations being diametrically opposite the marginal phrases of the first mentioned disk, and a disk in operative relation to the first mentioned disk and on the opposite side of that occupied by the second mentioned disk,



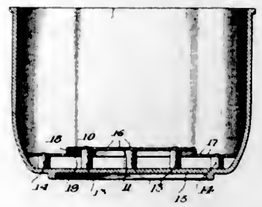
the said third mentioned disk having a radial slot of such area as to expose a translated clause on the back of the first mentioned disk and a translated clause on the back of the second mentioned disk exposed through one of the slots of the first mentioned disk, the said third-mentioned disk having a printed salutation on its outer surface at the edge of the slot, an arm having means for indicating its registry with one of the indicators on the first mentioned disk, and having a longitudinally extending slot adapted for exposing any one of the radially arranged clauses on the outer surface of the second mentioned disk, and means for connecting the said arm and the said third mentioned disk whereby they move in unison.

1,343,113. NURSING-BOTTLE ATTACHMENT. LAFAYETTE D. CLARK, Waterville, Me. Filed Aug. 16, 1919. Serial No. 317,947. 2 Claims. (Cl. 128—252.)



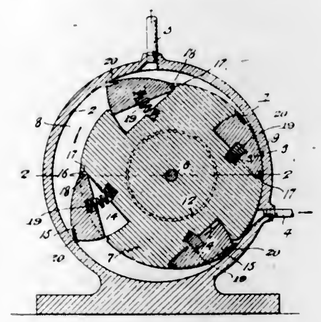
1. A nursing bottle attachment comprising a sleeve adapted to be positioned within the neck of the bottle, a partition arranged transversely of the sleeve and extending within the nipple beyond the sleeve to engage the latter and prevent collapsing of the same.

1,343,114. FALSE BOTTOM FOR COOKING UTENSILS. FRANKIE M. COLSON, Salt Lake City, Utah. Filed Apr. 20, 1918. Serial No. 229,801. 1 Claim. (Cl. 53—1.)



The combination with a receptacle, of a false bottom formed of separate independent sections and comprising a perforated disk, legs carried by and supporting the disk, a perforated ring surrounding the disk, legs also carried by and supporting said ring, a downwardly extending vertical flange surrounding the disk and an upwardly extending vertical flange surrounding the inner periphery of the ring for engagement within the disk flange for locking the disk and ring together.

1,343,115. ROTARY ENGINE. GEORGE E. CURRENT, Mogollon, N. Mex. Filed Nov. 1, 1918. Serial No. 260,716. 1 Claim. (Cl. 121—95.)

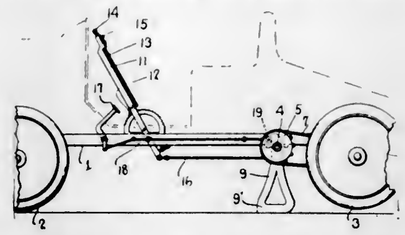


A rotary engine comprising a casing having a cylindrical inner wall and provided with inlet and outlet openings for fluid under pressure, a shaft journaled through said casing eccentrically thereof, a circular rotor mounted upon said shaft and positioned to engage the inner wall of the casing in advance of the inlet opening therein, a spring-pressed packing strip mounted within the inner wall of the casing and engaging the rotor whereby to provide a leak-proof joint, said rotor being provided at spaced intervals with substantially triangular pockets, and outwardly spring-pressed abutments pivoted within the pockets and having their outer surfaces of the same curvature as the outer surface of the rotor, the outer free edges of the abutments being each provided with a recess, and a bearing strip seated within each of said recesses and having a beveled free-edge engaging against the inner wall of the casing, the rotor being notched at the edge of each pocket whereby to accommodate the bearing strips when the abutments are in fully retracted position.

1,343,116. SAFETY-BRAKE. AUGUSTINE DAGOSTENO, New York, N. Y. Filed Aug. 9, 1919. Serial No. 316,417. 1 Claim. (Cl. 188—5.)

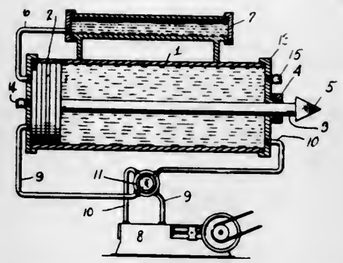
In combination with an automobile, a supplemental shaft journaled in the frame thereof, a lifting member pivoted on said shaft and adapted to engage the road

surface to lift the rear wheels off said surface, a gear wheel on said supplemental shaft, means for driving the same from the rear wheels, clutch means for connecting



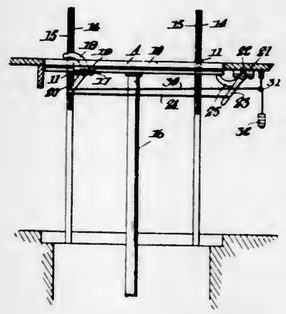
said gear wheel with the lifting member, a hand operated means for holding the said member in inoperative position, and manually operated means for shifting the clutch.

1,343,117. PORTABLE HYDRAULIC POWER DEVICE. HOMER J. DANA, Pullman, Wash. Filed Aug. 22, 1919. Serial No. 319,180. 2 Claims. (Cl. 60—52.)



1. In a portable hydraulic power device, a cylinder, a piston therein and a piston rod therefor projecting through one end of a cylinder, a compensating chamber, a valved duct connecting said chamber to the cylinder to the rear of the piston, a source of fluid supply, a pump therefor, ducts from said pump connected to the ends of the cylinder, a four-way valve controlling said ducts, and relief valves in the ends of the cylinder.

1,343,118. SAFETY ANTITILTING DEVICE FOR ELEVATORS. GEORGE B. DAVIS, Calgary, Alberta, Canada. Filed Nov. 21, 1918. Serial No. 263,638. 6 Claims. (Cl. 187—75.)



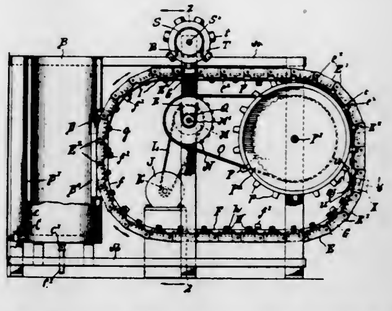
1. A safety anti-tilting device for elevators, comprising a guide member carried by the elevator, a lever designed to overlie said guide member, a pair of arms engaging the underface of the deck of the elevator, and means for simultaneously actuating the lever and arms.

1,343,119. FOOTREST. JOHN DUNLAP, Camden, S. C. Filed Jan. 2, 1920. Serial No. 348,750. 2 Claims. (Cl. 155—168.)



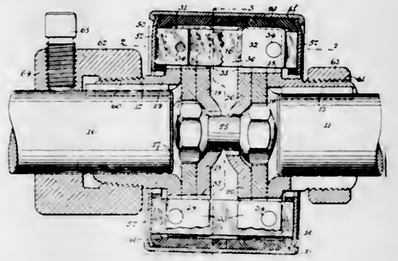
2. In combination with a radiator, a foot rest having a depending flange thereon for engaging the radiator, a hinge member on the lower part of the rest, a U-shaped member connected with the hinge member and having its limbs passing through the flange and adapted to pass through the spaces between the tubes of the radiator and a bar connected with the extremities of said limbs for engaging the rear of the radiator when the hinge member is swung forwardly.

1,343,120. CANDY-MAKING MACHINE. LOUIS EDGAR DYKEMAN, New Orleans, La. Filed Nov. 26, 1919. Serial No. 340,700. 6 Claims. (Cl. 107—16.)



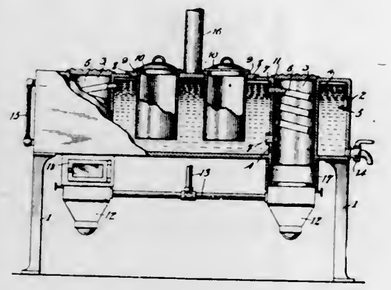
1. A candy making machine comprising a container surrounded by a heating jacket, and having a vertical slot in the side thereof, an endless conveyer provided with a series of blocks hinged together with cup-shaped recesses on the exterior thereof, the said conveyer projecting into and substantially closing said slot, means for compressing the material in said cups *seriatim*, and means for automatically ejecting the material from said cups *seriatim*, substantially as described.

1,343,121. FLEXIBLE COUPLING. WILLIAM J. FRANCKE, Highland Park, N. J., assignor to The Francke Co., Highland Park, N. J., a Corporation of New Jersey. Filed Feb. 14, 1919. Serial No. 276,933. 10 Claims. (Cl. 64—96.)



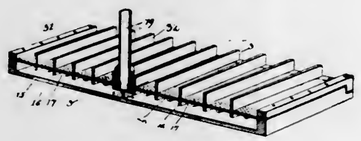
1. In a flexible coupling, the combination of coupling members adapted to be secured to adjacent ends of two shafts, a floating member in the form of a casing inclosing the said coupling members, and flexible connecting members connecting the said coupling members with each other and connecting the said coupling members with the sides of the said floating member.

1,343,122. STOVE. BENJAMIN HARRISON DICKSON and JESSE EDWARD FRY, Yuma, Colo. Filed Mar. 1, 1919. Serial No. 280,112. 6 Claims. (Cl. 126—20.)



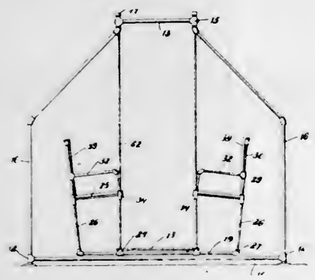
1. In a stove, the combination of a hot-water reservoir having an opening therein, a receptacle extending within said opening, a heating chamber extending through the reservoir, and an auxiliary heating means within said chamber and communicating with said reservoir, so that the circulating liquid passing through the auxiliary heating means comes in direct contact with the walls of the heating chamber, whereby food may be cooked from heat in the heating chamber, and other food placed in the receptacle may be heated from the hot water in the reservoir, the stove thus functioning as a heater, and a fireless cooker.

1,343,123. ORE-FLOTATION APPARATUS. RUDOLF GAHL, Miami, Ariz., and ROBERT M. HASKELL, Lake Linden, Mich.; said Gahl assignor, by mesne assignments, of his right to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1916. Serial No. 73,892. 5 Claims. (Cl. 261—122.)



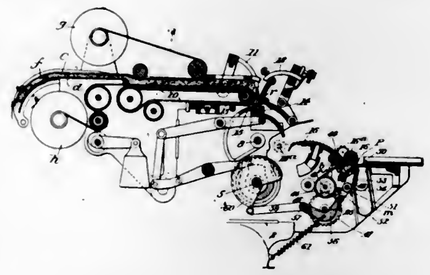
1. In an ore flotation apparatus, a chamber having a wall made of elastic material and provided with fine openings therethrough and means for introducing fluid under pressure into said chamber.

1,343,124. LAWN-SWING. HERMANN C. GALIPP, Dallas, Tex. Filed Dec. 12, 1919. Serial No. 344,495. 2 Claims. (Cl. 155—58.)



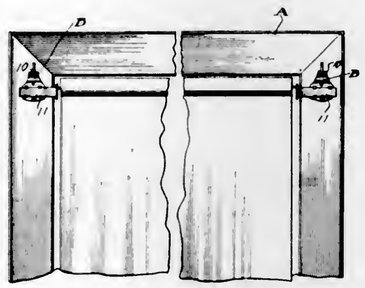
1. A swing comprising a supporting frame, a platform frame, swing rods connecting the supporting frame and the platform frame, seat frames carried by the platform frame, said seat frame including seat rods and back rods, seats having spaced notches engageable with the seat rods to removably hold the seats in position and a platform removably positioned upon the platform frame.

1,343,125. MACHINE FOR APPLYING PAPER MOLDS TO CIGAR-BUNCHES. LOUIS R. GINDRAT, Baltimore, Md., assignor to The Cigar Machine Corporation of America, Baltimore, Md., a Corporation of Delaware. Filed Aug. 10, 1918. Serial No. 249,302. 7 Claims. (Cl. 131—9.)



6. The combination with cigar bunch-forming mechnism, including a rolling apron and traverse mechanism therefor, and means for feeding mold wrappers into position to receive the successive bunches from the apron, of means for rolling the wrappers around the bunches comprising an endless belt, a pair of fixed rollers and a pair of movable rollers arranged to hold the belt in the form of an open pocket, a driving roller for the belt, means for moving one of said movable rollers to close the pocket after a bunch has been delivered from the apron, and means for moving the movable rollers downward, to open the pocket and release the bunch, and thence upward to normal position.

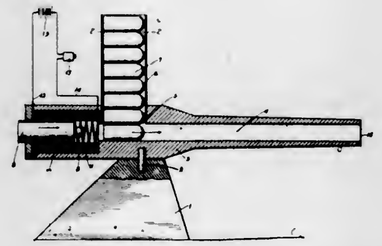
1,343,126. SHADE AND CURTAIN BRACKET. FRED J. GROTE, Cincinnati, Ohio. Filed Sept. 24, 1919. Serial No. 325,995. 1 Claim. (Cl. 156—24.)



A combined shade and curtain rod supporting bracket comprising a relatively stationary member including an attaching plate provided at one end with a curtain rod engaging extension, a tongue formed upon the lower edge of said plate and bent to extend upwardly in slight spaced relation thereto, said tongue and plate portion therebeneath being provided with registering holes, a securing member passing through said registering holes, the material of said plate being cut and upstruck at various points to provide a plurality of spaced guide lugs, a relatively movable portion including an elongated strip slidably engaged within said lugs and having a lateral extension provided with shade roller carrying means, and said

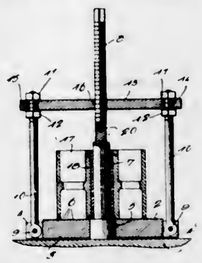
tongue normally frictionally engaging said movable member, and said tongue being forcible, by means of said securing member, into close engagement with said movable member whereby to hold the latter stationary.

1,343,127. ELECTRICAL TOY GUN. THOMAS HALLINAN, Paterson, N. J. Filed Mar. 3, 1919. Serial No. 280,393. 6 Claims. (Cl. 172—285.)



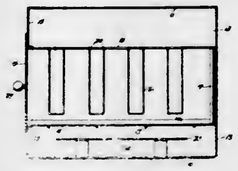
1. A toy gun comprising a gun barrel pivotally mounted on a base so as to swing thereon, means for directing projectiles into the barrel, and a magnetic hammer for striking the projectiles and forcing them through the bore of the barrel.

1,343,128. DEVICE FOR BABBITTING PULLEYS. CHRISTIAN HALVERSON, Seattle, Wash. Filed Oct. 23, 1919. Serial No. 332,725. 3 Claims. (Cl. 22—123.)



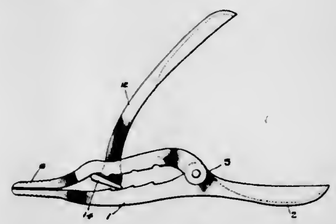
1. In a device for babbitting pulleys, a base plate having an opening therethrough, a mandrel fitted in said opening and movable axially therethrough, a screw having its axis alinable with that of said mandrel and being operatable to move said mandrel axially, a pair of links pivotally connected to said base plate at opposite sides of said opening, and a bar having a threaded aperture therethrough in which said screw is seated, said bar being loosely engaged with said links at opposite sides of its threaded aperture.

1,343,129. TOASTER. TILLIE HARRINGTON, Minneapolis, Minn. Filed Aug. 22, 1919. Serial No. 319,186. 1 Claim. (Cl. 53—5.)



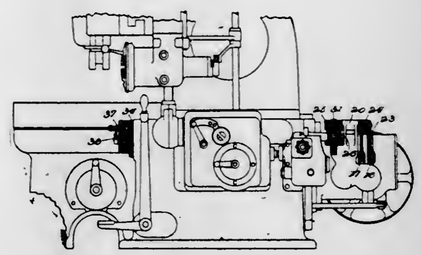
A bread toaster comprising a receptacle of substantially rectangular formation in cross section, the bottom of said receptacle having an enlarged central opening, a baffle plate supported above said opening, a bread holder slidable through an opening in one end of the receptacle, means for supporting the holder in spaced relation to said baffle, said holder comprising a bottom plate and an end plate, and a plurality of wire racks of substantially U-shaped formation arranged vertically and in parallelism, and said end plate constituting a closure for the opening through which the holder enters the receptacle.

1,343,130. AUTO-VALVE LIFTER. ELMER EARL HARRIS, Memphis, Tenn. Filed Aug. 25, 1919. Serial No. 319,524. 3 Claims. (Cl. 29—87.1.)



1. A device of the class described comprising a pair of jaw members, a handle connected with one member, an actuating device slidably connected with one jaw and means carried thereby for forcing the jaws apart.

1,343,131. SPEED-CHANGING DEVICE. ERNEST C. HEAD, Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1917. Serial No. 201,244. 14 Claims. (Cl. 74—58.)

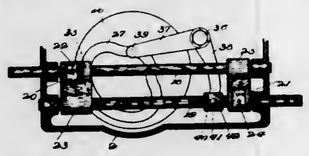


1. In a speed-changing device for machine-tools, a driven shaft, change-speed gearing in the drive of said shaft, said change-speed gearing comprising a plurality of simultaneously operative gear members having respectively a plurality of operative positions, and means to adjust said gear members to drive said shaft selectively at different speeds, said adjusting means comprising a single rotatable disk constructed to constitute a plurality of cams, connections whereby the rotation of said cams shifts the respective gear members, and means to rotate said disk.

1,343,132. FEED-CHANGING MECHANISM. ERNEST C. HEAD, Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1917. Serial No. 201,245. 15 Claims. (Cl. 74—58.)

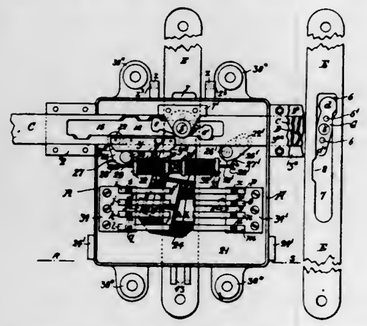
1. A feed-changing mechanism for machine tools comprising, in combination with a plurality of change-gears

operatively related in series in the feed train thereof and including a plurality of gear members shiftable to engage



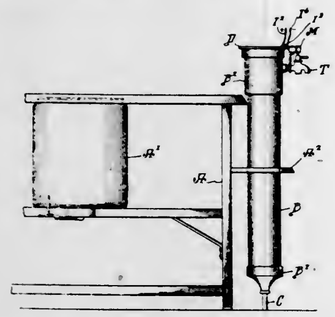
other gears thereof, a single cam, and operative connections between said cam and said gear members for shifting the same.

1,343,133. ELECTRICAL POINT-DETECTOR FOR RAILWAYS. ALFRED ERNEST HUDD, Melbourne, and GEORGE HARRY WION, Brighton, Victoria, Australia. Filed June 8, 1917. Serial No. 173,659. 7 Claims. (Cl. 246—158.)



2. A detector apparatus for switch points including bars movable with the switch points, levers connecting with the bars, and a controller movable about the point of intersection of the bars, substantially as described.

1,343,134. ELECTRIC WATER-HEATER. WILLIAM DANIEL HUFF, La Fayette, La., assignor of one-half to James J. Connolly, Roanoke, Va. Filed July 3, 1919. Serial No. 308,352. 9 Claims. (Cl. 219—39.)

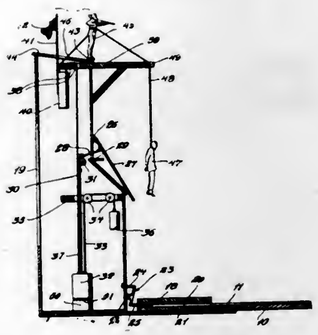


1. An electric water heater comprising an outer casing with means for supplying water thereto and carrying off water therefrom, two hollow annular heads mounted in said casing, tubes connecting said heads, the joints in said heads and tubes being substantially air-tight, a hollow sleeve containing a chamber from which the air has been exhausted surrounding said tubes, heating wires rove through said tubes, and means for conveying an electric current to said wires, with an inert gas filling the hollow portion of said heads and said tubes, substantially as and for the purposes described.

1,343,135. ACETYL-CELLULOSE COMPOSITION AND METHOD OF MAKING SAME. JOHN G. JARVIS, Stamford, N. Y. Filed Mar. 13, 1919. Serial No. 282,500. 1 Claim. (Cl. 106—40.)

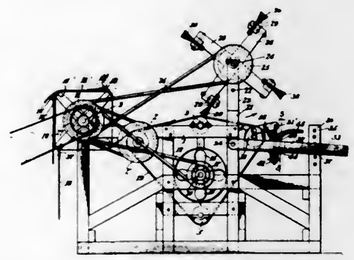
A composition containing 75 parts of cellulose acetate, 25 parts of naphthalene and 60 parts of acetone.

1,343,136. AMUSEMENT DEVICE. ALBERT JAVELET, New Orleans, La. Filed Oct. 6, 1919. Serial No. 328,658. 3 Claims. (Cl. 46—59.)



1. An amusement device designed to be actuated by a projected element, including means for projecting a spherical element, comprising a plurality of superimposed figures, a pivoted shelf supporting one of the figures, flexible elements connected to all of the figures, guide sheaves for said flexible elements, weights connected with said flexible elements, a pivoted trigger engaging one of said weights whereby to influence all of the weights to retain the figures in one position and said weights, when the trigger is contacted by the projectile to release the last mentioned weight, designed to draw upon the flexible elements to bring certain of the figures to other positions and to release the shelf supporting the remaining figures.

1,343,137. CARPET-CLEANING APPARATUS. MORRISON R. JOHNSON and OTTO N. HALVERSON, Lewistown, Mont. Filed Nov. 22, 1919. Serial No. 339,852. 4 Claims. (Cl. 15—8.)



1. A carpet cleaning apparatus comprising a frame and a driving shaft, rollers about which the carpet with the ends fastened together travels as an endless belt, frictional means for causing the carpet to rotate about the rollers, a rotary brush, a swinging rack upon which one of said rollers is mounted, clamping members mounted upon said rack, and in which members one of said rollers has bearings, and means for holding the clamping members in adjusted position.

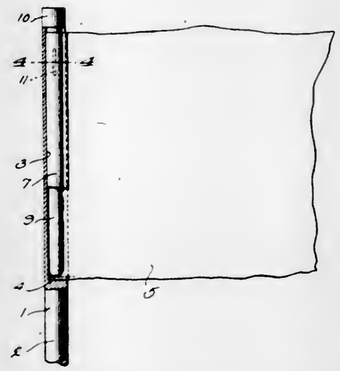
1,343,138. MERCERIZATION. SAMUEL MANSFIELD JONES, North Adams, Mass., assignor to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed Nov. 28, 1919. Serial No. 341,272. 4 Claims. (Cl. 8—20.)

1. The method of treating textile fabrics composed of mercerizable cellulosic fibers intermixed with artificial silk filaments of viscose, for the purpose of mercerizing such cellulosic fibers without injury to the viscose silk, by subjecting the composite fabric thus constituted to a process of mercerization wherein the solution of caustic alkali is modified by the addition thereto of formic aldehyde.

1,343,139. MERCERIZATION. SAMUEL MANSFIELD, JONES, North Adams, Mass., assignor to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed Nov. 28, 1919. Serial No. 341,273. 4 Claims. (Cl. 8—20.)

1. The method of treating textile fabrics composed of mercerizable cellulosic fibers intermixed with artificial silk filaments of viscose, for the purpose of mercerizing such cellulosic fibers without injury to the viscose silk, by subjecting the composite fabric thus constituted to a process of mercerization wherein the solution of caustic alkali is modified by the addition thereto of phenol.

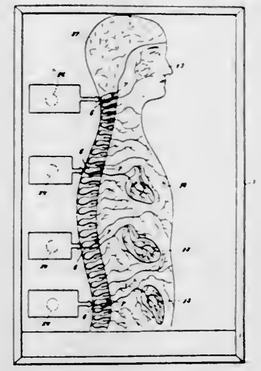
1,343,140. FLAGSTAFF. CHARLES A. KEELEY, Cleveland, Ohio, assignor of one-fourth to Carroll C. Shamp and one-fourth to Alfred A. Myers, Cleveland, Ohio. Filed Sept. 13, 1918. Serial No. 253,951. 2 Claims. (Cl. 116—173.)



1. A flagstaff comprising a supporting section having a bore in its upper end of a depth substantially equal to the width of a flag to be used, and having a longitudinal slit at one side communicating and coextensive with the bore, an inserting section adapted to be seated in the bore, and being of less diameter than the same, and a flag adapted to extend through said slit and having a pocket at its inner end into which the inserting section is adapted to be placed for maintaining the flag on the supporting section, said inserting section having an enlarged head on its upper end adapted to hold the flag from upward displacement and adapted to seat on the upper end of the supporting section for closing the bore.

1,343,141. ELECTRIC SIGN. PAUL J. KENAGY, Newton, Kans. Filed July 9, 1917. Serial No. 179,440. 2 Claims. (Cl. 177—346.)

1. A sign of the type described, including a transparent sign surface on which the human body with the desired nerves and organs are outlined, a partition arranged in rear of such surface, members mounted on the partition and visible through the sign surface to represent additional parts of the human body in their relation to the



organs represented, an illuminating means for each organ, and means for simultaneously moving the member related to a particular organ and cutting out the illumination of such organ.

1,343,142. INTERNAL-COMBUSTION ENGINE. EDWIN T. KERSHAW, Denver, Colo., assignor to The Hunter Gas Engine and Development Company, a Corporation of Colorado. Filed Mar. 11, 1919. Serial No. 282,030. 11 Claims. (Cl. 123—47.)

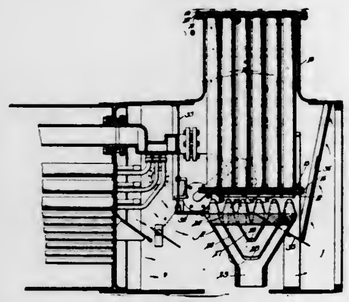
1. In an internal combustion motor having separate compression and combustion chambers, the combination of a sleeve valve inlet into said compression chamber, a puppet valve between said chambers, and a member surrounding the compression chamber performing the dual function of opening both said valves.

1,343,143. AUTOMOBILE-HEADLIGHT CONTROL. DWIGHT E. KIDDER, Minneapolis, Minn., assignor of one-half to Magnus E. Olson, Vancouver, British Columbia, Canada. Filed Sept. 4, 1918. Serial No. 252,623. 1 Claim. (Cl. 240—62.)

A device of the character described comprising a partly plain and partly threaded spindle, the plain portion of the

spindle being formed between threaded portions thereof and positioned adjacent the upper end and the lower threaded portion of the spindle being adapted for insertion through the usual lamp bracket receiving opening formed in the fender iron of an automobile, retaining nuts on the lower threaded portion of the spindle adapted to engage upper and lower surfaces of said fender iron, a boss rotatably mounted on the plain portion of the spindle and supported by the upper of said nuts, an additional retaining nut for the boss threaded on the upper end of the spindle, a forward extension carried by the boss adapted to support a lamp bracket and a rearward extension carried thereby adapted to be connected to the steering gear.

1,343,144. ECONOMIZER FOR LOCOMOTIVES. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed Nov. 11, 1916. Serial No. 130,878. 9 Claims. (Cl. 122—424.)



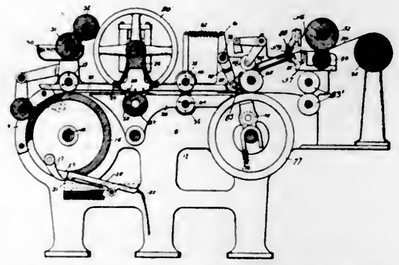
2. In combination with a locomotive boiler having the usual smoke box and stack shell, spaced apart tube sheets arranged at the top of said shell, similar spaced apart tube sheets arranged below said shell and in the smoke box, a series of inner tubes carried by the end tube sheets, a series of outer tubes surrounding the first series and carried by the inner tube sheets whereby water spaces are formed between the tubes and the tube sheets and the products of combustion are circulated around the outer tribes and up through the inner tubes, an inlet for the space between said upper sheets and outlet for the space between said lower sheets, and means for discharging equal quantities of steam into the lower end of each of the inner tubes.

1,343,145. PERMUTATION-LOCK. MARK KOSICH, New York, N. Y. Filed May 1, 1919. Serial No. 294,028. 5 Claims. (Cl. 70—53.)



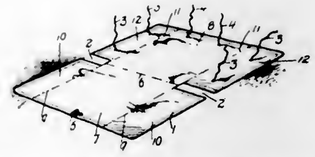
1. In a permutation lock, an elongated cylindrical casing having a longitudinal slot, a central, slidable stem disposed longitudinally in said casing, a bolt forming arm rigidly carried by and movable bodily with said stem, said arm extending laterally through said slot to hold said stem against rotation, a plurality of tumblers, rotatable on said stem and held against sliding in said casing, said stem and tumblers having coacting means for locking the former against sliding, and a handle for operating said bolt.

1,343,146. ENVELOP-MACHINE. HARRY LEVINE, Brooklyn, N. Y. Filed Aug. 17, 1917. Serial No. 186,795. 7 Claims. (Cl. 164—68.)



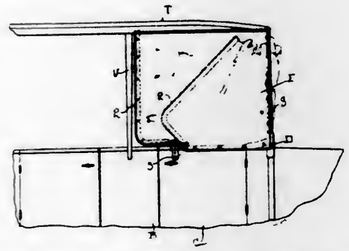
1. In patch feeding mechanism for window envelop machines, means for supporting a roll of patch material, means for unreeling the patch material, severing mechanism for cutting the material and means for yieldingly gripping the material during the severing operation, the severing mechanism comprising a pair of relatively movable knives and between which the patch material is adapted to move when the knives are in inactive positions, one of said knives being stationarily mounted, and the other having a reciprocatory movement with relation to the first.

1,343,147. HORSETAIL-HOLDER. HENRY LIECHTY, Louisville, Ohio. Filed Jan. 15, 1920. Serial No. 351,546. 1 Claim. (Cl. 54—78.)



A device for use on a horse's tail comprising a bandage of flexible material rolled into tubular form and adapted to inclose the horse's tail near the base thereof, said bandage carrying flexible fastening means adapted to secure the bandage in such tubular form, and said bandage carrying also flexible means and a rigid fastening member adapted to secure the bandage to a portion of the harness of a horse.

1,343,148. AUTOMOBILE-CURTAIN. JESSE JOEL MOORE, Philadelphia, Pa. Filed Mar. 16, 1918. Serial No. 222,945. 3 Claims. (Cl. 296—139.)

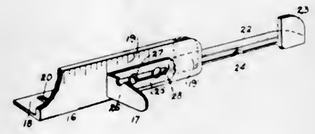


2. The combination with a vehicle having a doorway and its door, a canopy top, a curtain section attachable to the door and to an adjacent upright; or an arm pivotally connected to the upper swinging corner of the door and attachable to the curtain, said arm adapted to tilt over the edge of and in the plane of the door body, and

adjustable stop means for the arm to limit the movement of the arm when its upper end and the curtain are clear of the canopy.

3. In a door curtain holder a pivoted member for carrying a curtain on said door comprising a pair of L-shaped bars with slots in one of said bars for adjustment of said member substantially at right angles to the pivotal radius of said bar and pins on the other said bar, said pins and slots forming an adjustment means.

1,343,149. SEWING-MACHINE GAGE. SIMON MORGEN, Brooklyn, and SAMUEL HOFFMAN, New York, N. Y. Filed June 10, 1919. Serial No. 303,172. 2 Claims. (Cl. 112—115.)



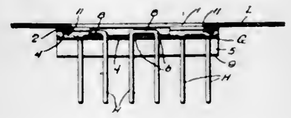
1. A sewing machine gage comprising an L-shaped holder having horizontal and vertical flanges, the horizontal flange of said holder being provided with a plurality of parallel slots, a screw passing through each of said slots serving to adjustably clamp the holder in position to hold the other flange in a certain plane, and an L-shaped gage member adjustably carried by the vertical flange of said holder arranged to determine the distance between successive fields of operation on a garment.

2. A sewing machine gage comprising an L-shaped holder having horizontal and vertical flanges, the horizontal flange of said holder being provided with a plurality of parallel slots, a screw passing through each of said slots serving to adjustably clamp the holder in position in a certain plane, a guide member spaced from but fixed coplanar with the vertical flange of said holder, and an L-shaped gage member adjustably carried by the last mentioned flange of said holder arranged to determine the distance between successive fields of operation on a garment.

1,343,150. LEAK-STOPPING COMPOSITION. GEORGE W. B. NEFF, Sandy, Utah. Filed Aug. 2, 1919. Serial No. 315,014. 2 Claims. (Cl. 134—17.5.)

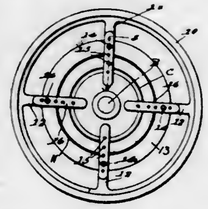
1. The herein described composition consisting of powdered linseed meal, 90 pounds, powdered manganese dioxid, 10 pounds, and 1 quart oil of citronella.

1,343,151. GUARD FOR MONEY-SLOTS AND THE LIKE. JOHN NUTRY, Ridgewood, N. J. Filed Feb. 11, 1919. Serial No. 276,295. 12 Claims. (Cl. 232—62.)



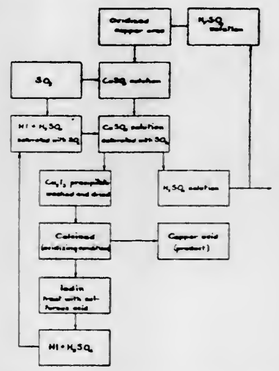
1. A guard, of the class described, comprising a body member and a plurality of relatively movable guard fingers, the guard fingers being arranged in two rows spaced apart, a pair of flanges formed upon the body member one adjacent each of said rows having portions to retain the guard fingers of the respective rows in normal positions, and the flange adjacent one row being disposed also to serve for limiting movement of the fingers of the opposite row into an abnormal position.

1,343,152. PULLEY ATTACHMENT FOR MOTORS. WILLIAM C. OLSON, New Bedford, Ill. Filed June 14, 1919. Serial No. 304,179. 1 Claim. (Cl. 64—17.)



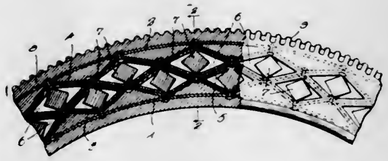
A motor attachment comprising a pulley having a central opening surrounded by a hub portion and having radial ribs extending between said hub portion and the outer periphery of the pulley, bolts passing transversely through the hub portion in line with said ribs, said pulley being adapted to be slipped over a clutch member of a motor, and a bar disposed adjacent each rib upon each side of the pulley in registration with the rib and provided with a plurality of holes selectively engageable by said bolt whereby all of said bars may be adjusted radially for clamping engagement upon the clutch member of the motor.

1,343,153. PROCESS OF EXTRACTING COPPER. ARTURO AMENABAR OSSA, Valparaiso, Chile. Filed Dec. 20, 1918. Serial No. 267,621. 3 Claims. (Cl. 75—18.)



1. A cyclic process of recovering copper from oxidized ores thereof, comprising leaching the ore with a solution containing sulfuric acid; precipitating copper as iodid by means of hydriodic acid in presence of sulfur dioxid with coincident formation of sulfuric acid; and regenerating hydriodic acid from the iodid precipitate.

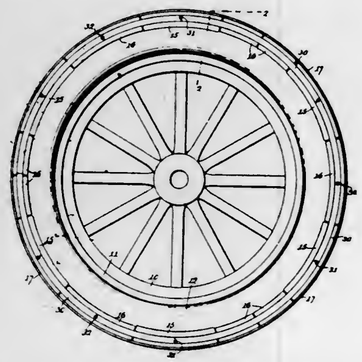
1,343,154. CUSHION-TIRE. LOUIS WM. OSTMANN, St. Charles, Mo. Filed Aug. 11, 1919. Serial No. 316,628. 4 Claims. (Cl. 152—1.)



2. A cushion tire including spaced inner and outer circular flexible bands, inner and outer continuous sinuous

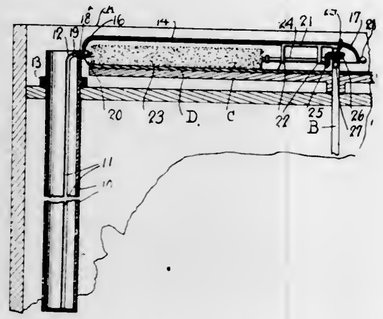
flexible bands disposed between said circular bands and arranged in respective parallel relation, the inner and outer portions of said inner and outer sinuous bands respectively being secured in staggered relation to said inner and outer circular bands respectively, an intermediate continuous sinuous flexible band disposed between said sinuous bands and arranged with its curves arranged opposite to the curves of the latter, the inner and outer portions of said intermediate band being secured to the outer and inner portions respectively of said inner and outer sinuous bands respectively, and cushion blocks disposed between said inner and intermediate sinuous bands and said intermediate and outer sinuous bands.

1,343,155. RESILIENT TIRE. FRED PERDALA, Newark, N. J. Filed Sept. 30, 1919. Serial No. 327,383. 2 Claims. (Cl. 152—17.)



1. A resilient tire for vehicle wheels, comprising a shoe provided on its peripheral face with spaced integral blocks, a tread made in sections provided on its inner face with spaced blocks adapted to fit between and interlock with the said blocks of the shoe, the said blocks on the shoe and tread having registering recesses in each side, and a sectional and hinged locking ring fitting into the registering recesses at each side.

1,343,156. RECORD-CLEANER. CHARLES C. PRINZ, Louisville, Ky. Filed Apr. 21, 1919. Serial No. 291,517. Renewed Apr. 30, 1920. Serial No. 377,973. 3 Claims. (Cl. 274—1.)



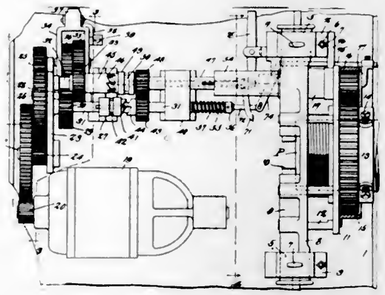
1. In combination with a talking machine including a supporting cabinet, a turn-table and a spindle for rotating the turn-table, a record cleaning device comprising a casing secured within the cabinet, a brush slidably connected with and disposed normally within said casing and movable to extend therefrom in engagement with a record disposed upon the turn-table, and means associated with said spindle for rotating said brush.

1,343,157. PUMP. JAMES K. PUTNAM, Tulsa, Okla. Filed Apr. 10, 1919. Serial No. 289,047. 9 Claims. (Cl. 103—80.)



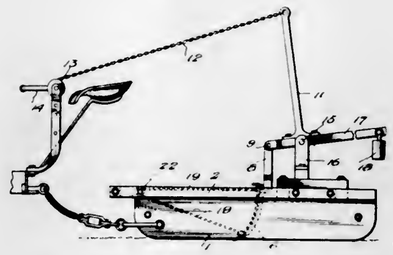
5. In an oil-pump, a working barrel, a working valve operatable therein and comprising a ball-cage, a working tube having its lower end secured to the working valve and surrounding said ball-cage, a duplex tube comprising an inner and an outer tube arranged concentrically and forming an annular space which is closed at its upper end and open at its lower end, said working tube extending into said annular space and having sliding engagement with said duplex tube, and an annular strainer in position to strain oil as it is being pumped and to deposit the strained oil on the sliding surfaces of the working valve and working tube.

1,343,158. MACHINE FOR THREADING PIPES. JAMES A. REESE, Blytheville, Ark., assignor to American Pipe Machine Company, Tom B. Laird, trustee, a Trust Estate. Filed Apr. 26, 1919. Serial No. 292,785. 5 Claims. (Cl. 10—89.)



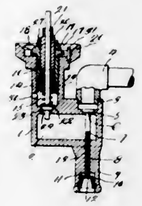
1. In a threading machine the combination with a die having a key operated movable member, and means for supporting the die in operative position of driving mechanism, separate shafts combined therewith, means upon one of the shafts for engaging and actuating the key, when the shaft is driven in one direction, for feeding a pipe into the threading die, coöperating means upon the two shafts for reversing the movement of the key, and means controlled by the feeding of the pipe during the threading operation for uncoupling the direct connection between the key operating shaft and its driving mechanism and for coupling said shaft to its reversing mechanism, and means operated by the movable portions of the die upon the completion of the unscrewing of the pipe from the cutters for automatically uncoupling the reversing mechanism.

1,343,159. LAND-SCRAPER OR LEVELING-MACHINE. BARNEY SANDSTROM, Suitana, Calif. Filed July 12, 1919. Serial No. 310,371. 3 Claims. (Cl. 37—42.)



1. In a land scraper, the combination of a normally horizontal frame, supporting means for said frame, a fulcrum post rising from said frame, a scraper blade extending transversely of and within said frame and between the supporting means for said frame, a raising and lowering lever to one arm of which said scraper blade is pivotally attached, a weighted blade counter balancing arm extending from said lever, and a flexible operating connection attached to said operating lever.

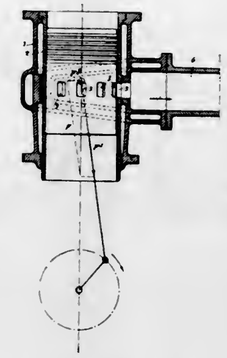
1,343,160. PRESSURE-REGULATOR. EDWARD J. SCHMIDT, Louisville, Ky. Filed Mar. 15, 1919. Serial No. 282,860. 2 Claims. (Cl. 152—11.5.)



1. In a device as characterized, a cylindrical casing open at one end and closed at the other end, internal screw threads at said open end, an external and an internal screw threaded sleeve fitted in the end of said casing, a second sleeve threaded in said first mentioned sleeve, the closed end having a port therethrough, a valve closing said port, a stem extending from said valve and slidably received in said second mentioned sleeve and a spring disposed about said stem and bearing respectively upon said valve and the inner end of said last mentioned sleeve.

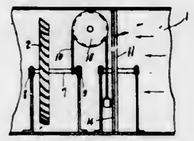
1,343,161. CYLINDER FOR INTERNAL-COMBUSTION ENGINES. EUGENE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Aug. 21, 1918. Serial No. 250,860. 3 Claims. (Cl. 123—65.)

1. A cylinder for a two-cycle internal combustion engine provided with a circumferential series of ports including exhaust ports, said series of ports extending around only a portion of the internal circumference of the cylinder and leaving a relatively large unapertured sur-



face for the bearing of the piston in that portion of the cylinder wall which receives the pressure arising from the reaction of the connecting rod during the working stroke.

1,343,162. AIR-REGULATOR FOR VENTILATORS OR HEATERS. PETER SHERWEN, Vancouver, British Columbia, Canada, assignor of one-half to Holton Evans Sands, Vancouver, British Columbia, Canada. Filed Mar. 27, 1919. Serial No. 285,482. 2 Claims. (Cl. 236—45.)

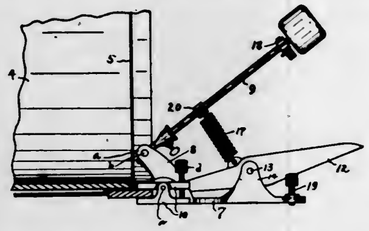


1. In a device of the character described, the combination with an air pipe, of an apertured door mounted within the pipe through which the air flows, a shutter rotatably mounted on the face of said door adapted to open or close the door apertures, a rotatably mounted shaft, an air motor mounted thereon and normally stationary when the velocity of air flow is normal, said air motor being provided with two or more concentric rows of vanes and said vanes being perforated with tapering apertures the mouths of which face the direction of the air flow, a flexible connection between said shaft and said shutter, said connection being adapted to wind on said shaft as the same is rotated by the operation of the air motor through increased velocity of air flow and move the shutter to partially close said apertures, and a weight secured to said shutter for returning the same to normal position as the air flow velocity decreases and adapted to secure balanced operation of the same when opening or closing the door apertures.

1,343,163. DRUM-BEATER. GEORGE A. SMITH, Omaha, Nebr. Filed July 26, 1918. Serial No. 246,920½. 7 Claims. (Cl. 84—10.)

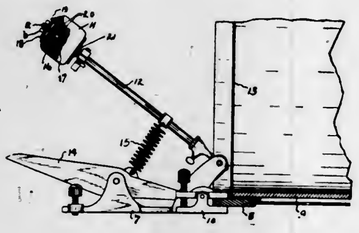
2. In a drum beater, a base having a pair of standards formed with curved terminals and projecting upwardly and within the hoop beyond one of its ends and having a joint bearing between the plane passing through the outer edge of the hoop and the head, a pair of clamping-bars disposed outwardly of the sides and pivotally mounted on the standards, a beater-rod provided with a head and pivotally mounted on the standards, operating means, a coiled spring connected with the operating means and

adapted to have a mounting at intervals of the beater-rod, and means for securing the clamping-bars to the hoop of the drum head in such a manner that the distance from



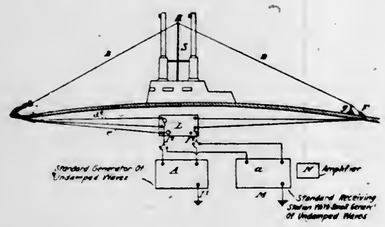
the pivot of the beater-rod to the drum head will be less than one-half of the width of the head of the beater-rod, to prevent said beater-rod from moving to a vertical position.

1,343,164. DRUM-BEATER. GEORGE A. SMITH, Omaha, Nebr. Filed Nov. 7, 1918. Serial No. 261,584. 5 Claims. (Cl. 84—10.)



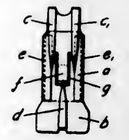
5. The combination with a beater-head having a recess opening on one of its ends, of a beater-arm traversing the beater-head and said recess, a plurality of apertured weight-members adapted to be disposed in said recess upon the beater-arm, a cap pivotally mounted upon the beater-head and adapted to be moved for covering the recess, and means for maintaining the cap in engagement with the beater-head after it has been moved.

1,343,165. SUBMARINE RADIO SYSTEM. PETER E. STOGOFF, New York, N. Y. Filed Feb. 20, 1918. Serial No. 218,238. 4 Claims. (Cl. 250—8.)



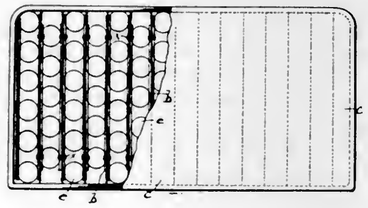
1. A system for sending and receiving radio signals with the same station under and above water and for taking radio bearings under and above water, consisting of highly insulated looped antenna fed by a generator of undamped waves and supported as near the surface of the water as practicable and exterior to and separate from the hull of a submarine, means for supporting said antenna as near the surface of the water as practicable, and exterior to and separate from said hull, means for feeding said antenna and for sending and receiving signals including a generator of undamped waves and amplifier and receiver and means for preventing any possible interference by the presence of the metallic hull with the antenna at the points where said antenna enters said hull.

1,343,166. GARMENT-PROTECTOR. ROBERT G. TUCK, Oakland, Calif. Filed July 22, 1919. Serial No. 312,554. 4 Claims. (Cl. 2—124.)



4. A two part garment protector each part provided with oppositely directed tines adapted to engage the cloth of a garment, the parts constructed and adapted to slide one within the other as said tines are engaged, and interlocking means between the parts to retain the engaged position.

1,343,167. SPRING-CUSHION. LEONARD A. YOUNG, Highland Park, Mich., assignor to L. A. Young Industries, Inc., Detroit, Mich., a Corporation of Michigan. Filed Nov. 25, 1918. Serial No. 263,993. 1 Claim. (Cl. 5—13.)



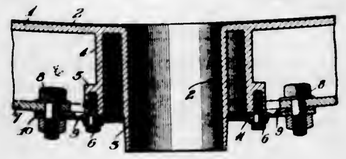
A spring cushion comprising an envelop of flexible fabric folded and sewed to form a plurality of spring pockets extending from side to side of the envelop, a row of springs for each cell, the springs being transverse to said pockets and being held in compression by the fabric, means interconnecting the springs in each pocket and means interconnecting the series in one pocket with the series of the springs in another pocket.

1,343,168. FLOOR-BOARD FOR AUTOMOBILES. LEONARD A. YOUNG, Highland Park, Mich. Filed Feb. 10, 1919. Serial No. 276,228. 2 Claims. (Cl. 20—15.)



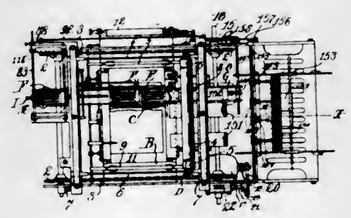
1. A floor board for automobiles comprising pieces of sheet material provided with transverse slots having undercut margins and with dovetail outer marginal portions, sheet metal strips having inturned marginal flanges that extend around and grip the dove-tailed marginal portions of the assembled pieces and battens of sheet material provided with lateral flanges that engage under the undercut margins of the transverse slots and that overlie and inclose the outer edges thereof.

1,343,169. TANK. IRA C. DOUGLASS, Rochester, N. Y., assignor to The Pfaudler Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 26, 1918. Serial No. 268,253. 5 Claims. (Cl. 220—10.)



1. A tank comprising an inner wall having an outlet portion and a frangible lining, a cylindrical wall thereon and surrounding and spaced from said outlet portion, an outer wall spaced from said inner wall and forming a jacket for heating or cooling media, and a ring of pliable material connecting said outer wall with said cylindrical wall and adapted to permit of the free expansion and contraction of said outer wall.

1,343,170. FILLING-IN ATTACHMENT FOR PRINTING-MACHINES. ERNEST DUSCHER, La Crosse, Wis., assignor, by mesne assignments, to Printograph Manufacturing Co., St. Paul, Minn., a Corporation of South Dakota. Filed Mar. 4, 1912, Serial No. 681,382. Renewed July 9, 1919. Serial No. 310,286. 32 Claims. (Cl. 101—56.)



13. In a printing machine, three coöperating elements, one a type form and the other two impression rollers, a filling in type block placed in said form, a plurality of filling in type holders adapted to be placed successively on said block to print and a receptacle supporting said holders in alinement to deliver them successively to said block, said receptacle having means which are operated to feed one of said holders to said block to every two printing impressions made by said rollers.

1,343,171. LINOTYPE-MOLD. CHARLES B. HILL, San Francisco, Calif. Filed Jan. 21, 1919. Serial No. 272,292. 5 Claims. (Cl. 199—37.)



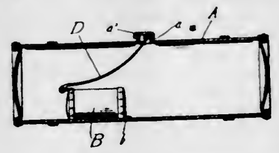
1. A mold for disks of typecasting machines comprising a bridge adapted to span the casting area of the mold; a depending member integral with said bridge; a plurality of keys in vertical alinement slidable vertically on said member; lateral engaging means on said keys in transverse alinement and extraneous means for engaging said lateral engaging means and lifting said keys *seriatim*.

1,343,172. RESILIENT TIRE. LAWRENCE D. HUGHES, Oklahoma, Okla. Filed Oct. 10, 1918. Serial No. 257,650. 1 Claim. (Cl. 152—8.)



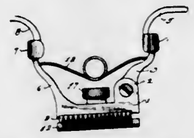
A resilient tire comprising an inner, intermediate and an outer coil spring convoluted one upon another with the convolutions of adjacent springs extending in different directions, and metallic casing inclosing said coil springs.

1,343,173. GASOLENE-RESERVOIR FOR AUTOMOBILES. RICHARD C. ISPHORDING, Cincinnati, Ohio, and GEORGE H. SCHULTZ, Fort Thomas, Ky. Filed Sept. 18, 1919. Serial No. 324,625. 4 Claims. (Cl. 158—46.5.)



1. A gasolene reservoir for automobiles comprising a main tank, an auxiliary tank within the main tank, and a hinge connecting one end of the auxiliary tank to the bottom of the main tank.

1,343,174. CLIPPER-SHEARS. GEORGE A. LA FONTAINE, Los Angeles, Calif., assignor of one-half to Otto Steinen, Los Angeles, Calif. Filed Nov. 27, 1917. Serial No. 204,795. 3 Claims. (Cl. 30—1.)



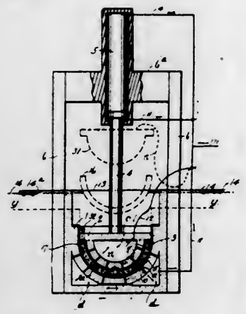
1. Clipper shears of the character referred to comprising a body member provided with a handle member, and an operating member pivotally connected therewith, T-shaped gripping members on said handle and operating members, a pair of shearing blades mounted flatwise together and secured to said body in a plane at right angles to the plane of stem portion of said handle and operating member, and operating connections from said operating member to one of said shearing blades for moving the same flatwise upon the other blade.

1,343,175. HAIR CLIPPER. GEORGE A. LAFONTAINE, San Pedro, Calif., assignor of one-half to Otto Steinen, Los Angeles, Calif. Filed Apr. 3, 1919. Serial No. 288,862. 8 Claims. (Cl. 30—1.)



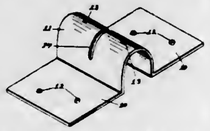
1. A hair clipper having relatively stationary and movable blades, a supporting body therefor, an oscillatable element for operating said movable blade, a cross head movable in a plane at right angles to the axis of and for operating said oscillatable element, and rotatable element operably connected with and for moving said cross head.

1,343,176. COMPRESSOR-MOLD FOR FORMING CONCRETE HULLS. EDWARD A. LARSEN, Larkspur, Calif. Filed June 18, 1918. Serial No. 240,667. 5 Claims. (Cl. 25—130.)



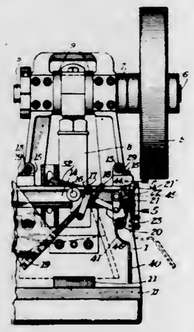
1. The combination including a fixed graving dock forming a mold for the exterior of a hull of a ship to be molded and having perforated walls through which liquid may be admitted to float the ship, a plunger of the shape of the interior of the hull and means for operating the same to compress concrete to the mold, substantially as described for the purpose specified.

1,343,177. ROPE-CLAMP. ARTHUR D. LIGHTNER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 7, 1917. Serial No. 206,117. 3 Claims. (Cl. 24—123.)



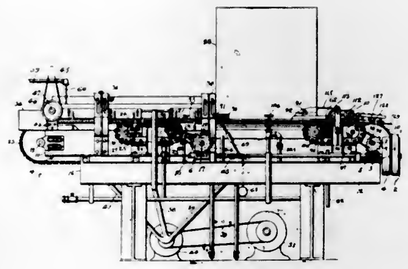
2. A securing device comprising a U-shaped central portion provided with a depressed portion formed therein and adapted to secure a flexible member to a plane surface, securing devices adapted to be passed through the U-shaped central portion and the flexible member, base flanges extending in opposite directions from the U-shaped portion, and means for securing the base flanges to a plane surface whereby the flexible member is engaged by the U-shaped portion and retained against movement relative to the plane surface.

1,343,178. PRESS-GUARD. ARCHIE F. LOVE and JOHN NICOLETTI, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 27, 1919. Serial No. 300,169. 9 Claims. (Cl. 74—105.)



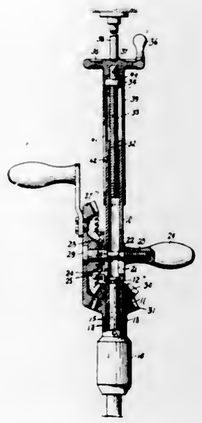
1. In a machine having an intermittently operating mechanism mounted on a frame, the combination of a safety guard pivoted to the frame adapted to swing across a portion of the frame, to prevent access to the intermittently operating mechanism during the time that it is operating, with a second guard pivoted to the frame adapted to be swung relative to the frame allowing egress but not ingress, protecting another portion of the frame from that covered by the first mentioned guard.

1,343,179. GLASSWARE-FORMING MECHANISM. GEORGE P. MACNICHOL, Toledo, Ohio, assignor, by mesne assignments, to John N. Willys, Toledo, Ohio. Filed Mar. 4, 1914. Serial No. 822,313. 3 Claims. (Cl. 49—7.)



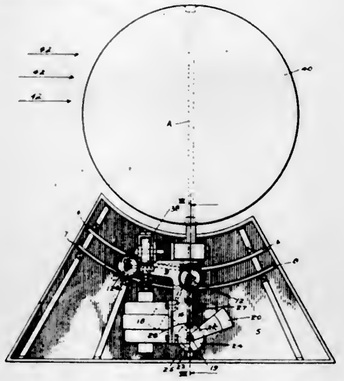
1. In a machine of the class described, the combination of a conveyer; means for driving said conveyer; means for mounting a plurality of blanks on said conveyer; a burner disposed to heat portions of said blanks; a driven roll substantially parallel to the line of movement of the conveyer adapted to contact with said blanks; and a fluid cooled jacket partially embracing said roll to cool the same.

1,343,180. DRILL. ROBERT D. MADDOX, U. S. Army. Filed Dec. 31, 1918. Serial No. 269,099. 1 Claim. (Cl. 77—7.) (Filed under the act of Mar. 3, 1883, 22 Stat L., 625.)



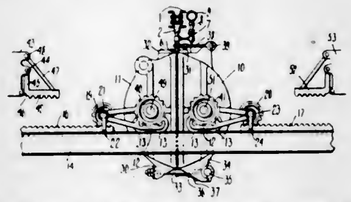
A drill of the class described, including a tubular stock having an internally threaded portion adapted for engagement with the threaded stud of a breast plate, a threaded rod engaging the threaded portion of the stock, a guide sleeve slidable over the stock and housing the rod, means for locking the sleeve to the stock and means for rotating the rod to feed the drill.

1,343,181. DEMONSTRATION-GLOBE. MARSDEN MANSON, Berkeley, Calif. Filed July 22, 1919. Serial No. 312,565. 3 Claims. (Cl. 35—5.)



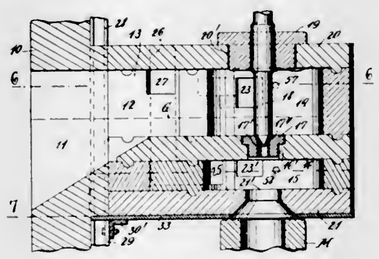
1. A demonstration device consisting of a globe mounted on a shaft to rotate, driving means therefor, mechanism adapted and constructed to oscillate the said rotating shaft in a plane at periodic intervals substantially as and for the purposes set forth.

1,343,182. FILTER. ERNEST J. SWEETLAND, Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation, a Corporation of Delaware. Filed Mar. 15, 1915, Serial No. 14,313. Renewed June 6, 1919. Serial No. 302,291. 24 Claims. (Cl. 210—178.)



1. In a filter, a filter member, a filter casing divided into complemental sections, means for fixably supporting the filter member independently of the casing, and means for bodily moving the casing sections linearly toward and away from the filter member.

1,343,183. GLASS-DISCHARGING DEVICE. SYDNEY L. SEARS, Lyndhurst, N. J., assignor to United Bottle Machinery Co., New York, N. Y., a Corporation of New York. Filed Aug. 19, 1914. Serial No. 857,463. 13 Claims. (Cl. 49—55.)



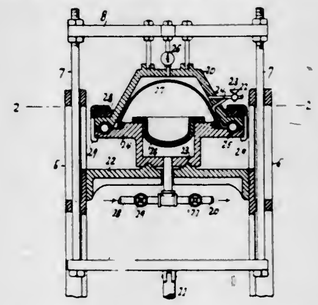
1. In a glass-discharging device, a furnace having two superposed chambers having vertically-alined glass outlets, the upper chamber having a glass inlet, and independent means for heating said two chambers.

1,343,184. DOUGH-FEEDING DEVICE. ROBERT ELMER BAKER, Bronxville, EARDLEY HARRY FORD, Brooklyn, and LAURENCE SEYMOUR HARBER, New York, N. Y., assignors to Joseph Baker's Limited, New York, N. Y., a Corporation of Canada. Filed Jan. 11, 1918. Serial No. 211,413. 24 Claims. (Cl. 193—6.)



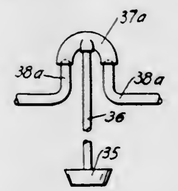
1. A conveyer comprising traveling means, carriers held to travel with said means and positively connected therewith at definite points but movable relatively thereto, said carriers being arranged in groups, and provided with holding members the position of which is different for the several carriers of the same group, and stationary restraining means normally engaging said holding members and having portions to release the carriers of the same group.

1,343,185. MACHINE FOR BLOCKING AND PRESSING HATS. WILLIAM H. KENDALL, Monson, Mass., assignor to Sarah Frances Kendall, Monson, Mass. Filed Apr. 11, 1919. Serial No. 289,356. 6 Claims. (Cl. 223—31.)



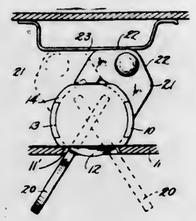
1. In a hat pressing machine the combination with a lower block member, and a hood movably coacting with the block, of a pneumatic cushion arranged between the block and the hood, and means for inflating the cushion.

1,343,186. GLASS-DRAWING APPARATUS. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Original application filed May 24, 1911, Serial No. 629,121. Divided and this application filed Apr. 16, 1914. Serial No. 832,315. 5 Claims. (Cl. 49—17.1.)



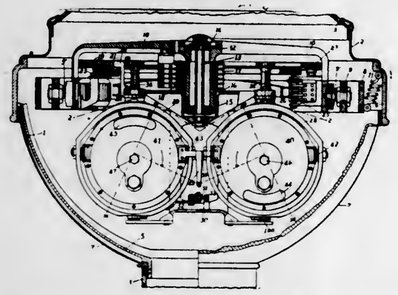
1. In apparatus for drawing glass cylinders, in combination, a drawing device, a pivoted frame upon which said device is mounted, an air conduit, a bait, a pipe leading to the bait, branches provided with openings, on said pipe, and sockets provided with openings, at the end of the conduit, the arrangement being such that the bait, when hung by its branches in said sockets, is supported to swing about a line parallel to the line of the frame pivot, at the same time affording passage of air from the conduit to the bait.

1,343,187. LOCK MECHANISM. STANLEY D. LIVINGSTON and CHARLES E. STAHL, Meriden, Conn., assignors to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Sept. 30, 1919. Serial No. 327,421. 10 Claims. (Cl. 70—46.)



1. A housing having a chamber open at one side, a body mounted to oscillate therein, said body and housing having a row of pin tumbler recesses each of which is parallel to the axis of oscillation, said body having a straight key slot intersecting one end of each tumbler recess and pin tumblers in said recesses.

1,343,188. GYROSCOPIC NAVIGATIONAL APPARATUS. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed July 19, 1916. Serial No. 110,020. 48 Claims. (Cl. 33—204.)



2. A gyroscopic compass having a plurality of meridian seeking gyroscopes with different ballistic properties, and with like moments of inertia.

10. In gyroscopic apparatus, a rotatable support, a pair of gyroscopes mounted thereon for precession within the support, means for maintaining the support in a predetermined relation to one of said gyroscopes, a yielding centralizing means connecting a gyroscope and the support and other yielding means connecting the two gyroscopes, the two means having a predetermined relative strength.

26. A gyroscopic compass including a normally stable and a normally unstable gyroscope and means controlled by the gyroscopes for causing the unstable gyroscope to become oppositely inclined to the other for imparting directive power thereto.

REISSUES.

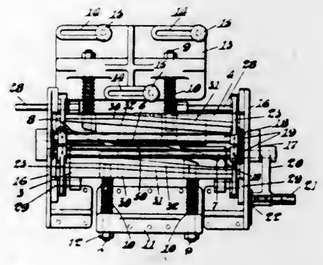
14,875. BELT-MAKING PROCESS. CHARLES CASSIUS GATES, Denver, Colo., assignor, by mesne assignments, to The Gates Rubber Company, Denver, Colo., a Corporation of Colorado. Filed May 27, 1919. Serial No. 300,234. Original No. 1,281,153, dated Oct. 8, 1918, Serial No. 193,526, filed Sept. 27, 1917. 12 Claims. (Cl. 154—4.)

1. The herein described belt-making process, consisting in winding a sheet of suitable fabric on a support in superposed convoluted layers to form a belt member, vulcanizing the said member, and after vulcanization subdividing



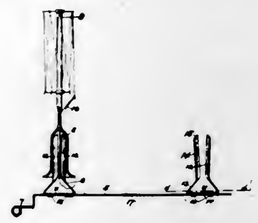
the member to form a number of relatively narrow endless belts.

14,876. SHOE-SOLE-CUTTING MACHINE. THOMAS H. GRAYDON, Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 4, 1918. Serial No. 232,658. Original No. 1,236,425, dated Aug. 14, 1917, Serial No. 95,344, filed May 4, 1916. 10 Claims. (Cl. 69—16.)



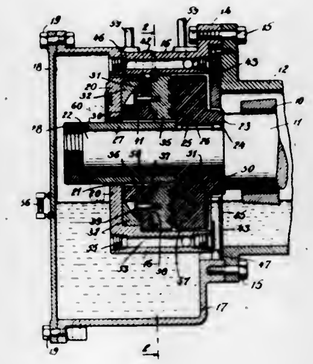
7. A machine for operating upon a sole blank, having two toe portions and an intermediate portion comprising a cutter and means for gripping the blank and presenting it to the cutter in such manner that the blank is severed by a cut the major portion of which is located in a plane substantially parallel to the planes of the upper and lower surfaces of the blank and substantially midway between them.

14,877. TRAY FOR LAMP-STEMS OR THE LIKE. JOHN E. JAMBOR, Milwaukee, Wis., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed June 24, 1918. Serial No. 241,708. Original No. 1,261,937, dated Apr. 9, 1918, Serial No. 131,471, filed Nov. 15, 1916. 6 Claims. (Cl. 211—28.)



1. As an article of manufacture a stem holder comprising a resilient metal plate having a base portion intermediate its ends and coöperative yielding arms extending upwardly from the base, said arms having semi-cylindrical outer surfaces so that when moved together they form a cylindrical peg and said ends being semi-conical so that when moved together they form a conical upper end for the peg.

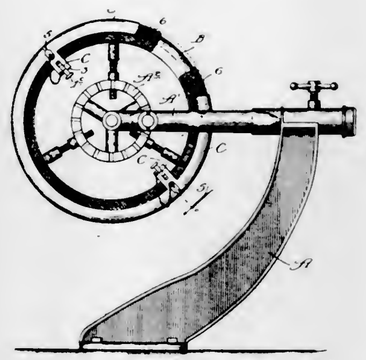
14,878. HORIZONTAL-THRUST BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Feb. 14, 1918. Serial No. 217,267. Original No. 1,201,057, dated October 10, 1916, Serial No. 756,839, filed Mar. 26, 1913. 50 Claims. (Cl. 64—25.)



46. In a thrust bearing, the combination of relatively rotatable bearing members including a plurality of relatively tiltable bearing segments, and equalizing means on which said segments are mounted to tilt radially with respect to the axis of the bearing.

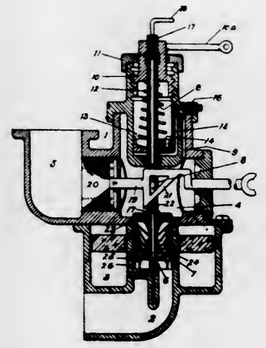
49. In a thrust bearing, the combination of relatively rotatable bearing members including a plurality of relatively tiltable bearing segments, equalizing means on which one of said bearing members is tiltably mounted, and means on the rotatable bearing member for providing a continuous flow of oil to the coöperating bearing surfaces of said members.

14,879. APPARATUS FOR MANUFACTURING TIRES OR INTERLINERS. WILLIAM F. RAY, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,313. Original No. 1,292,052, dated Jan. 21, 1919, Serial No. 257,453, filed Oct. 9, 1918. 10 Claims. (Cl. 154—9.)



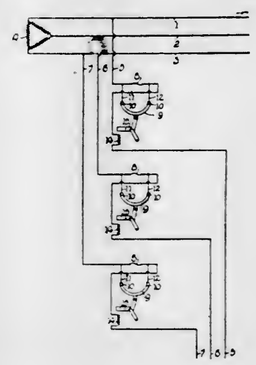
1. In means of the character set forth, the combination of an annular mandrel, a templet-positioning device, and an annular templet engaging said positioning device and co-acting with said mandrel, said templet being provided circumferentially with a series of recesses.

14,880. CARBURETER FOR GASOLENE-ENGINES. CARL F. SCHULZ, Brooklyn, N. Y. Filed Sept. 25, 1916. Serial No. 122,160. Original application filed July 30, 1907, Serial No. 386,304. Renewed Dec. 8, 1914, Serial No. 876,164. Original No. 1,169,574, dated Jan. 25, 1916. 27 Claims. (Cl. 261—44.)



22. In a carbureter provided with a mixture chamber and an air inlet port thereto, a valve coöperative with said port, means for admitting fuel to said mixture chamber, an outlet from said mixture chamber, a throttle coöperating with said outlet, said throttle having a series of annular mixture passages adjacent to each other, and adapted to be brought into operation successively.

14,881. OVERLOAD CIRCUIT-BREAKING APPARATUS. EDMUND O. SCHWEITZER, Chicago, Ill. Filed Oct. 12, 1918. Serial No. 257,907. Original No. 1,211,967, dated Jan. 9, 1917, Serial No. 768,577, filed May 19, 1913. 7 Claims. (Cl. 200—88.)



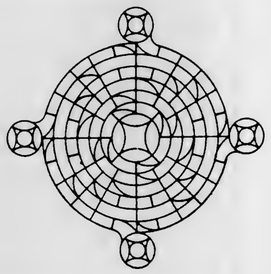
1. The combination of a circuit breaking device having a swinging knife blade, spring contact jaws therefor mounted upon an insulating support, electromagnetically controlled means tending to hold said knife blade normally in position in said contact jaws, spring means tending to open said knife blade, and a fuse mounted on the opposite side of said support and arranged for connection in shunt between the spring contact jaws for said knife blade.

5. In a device for interrupting a current flow at high voltage, a switch inherently unable to break the flow of current at full load and at the desired voltage, and a fusible element in shunt with the switch, said fusible element being of a current conducting capacity comprising only a

small percentage of the current carrying capacity of the switch, being of a voltage interrupting capacity in excess of the voltage impressed upon the switch and a barrier of insulation between the fusible element and the switch for preventing the arcing at the fuse from affecting the break at the switch.

DESIGNS.

55,404. GAME-BOARD. EDWARD S. AITKEN, Bridgeport, Conn. Filed Feb. 17, 1920. Serial No. 359,349. Term of patent 14 years.



The ornamental design for a game board, as shown.

55,405. PHONOGRAPH-CABINET. WILLIAM C. BECKWITH, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 351,061. Term of patent 14 years.



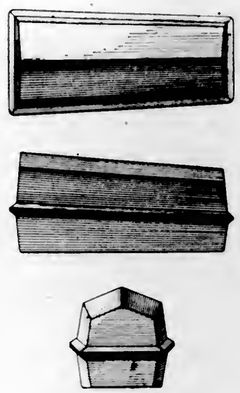
The ornamental design for a phonograph cabinet, as shown.

55,406. NAIL-BUFFER. NELLA E. BERRY, Buffalo, N. Y. Filed Mar. 6, 1920. Serial No. 363,829. Term of patent 14 years.



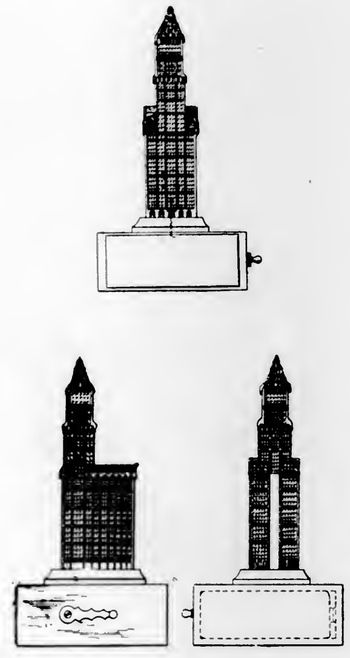
The ornamental design for a nail buffer, as shown.

55,407. BURIAL-CASKET CONTAINER. CARMINE BILOTT, Larimer, Pa. Filed Oct. 23, 1919. Serial No. 332,836. Term of patent 14 years.



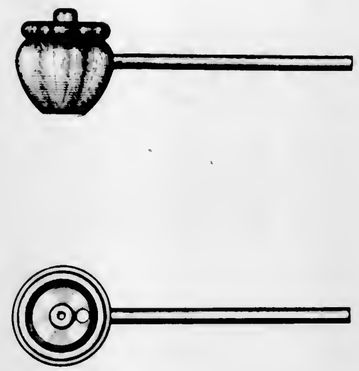
The ornamental design for a burial casket container, substantially as shown.

55,408. SOUVENIR. DAVID BOGEN, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,390. Term of patent 3½ years.



The ornamental design for a souvenir, as shown.

55,409. BUBBLE-BLOWER. CLARENCE BOGERT, Demarest, N. J. Filed Jan. 9, 1920. Serial No. 350,452. Term of patent 7 years.



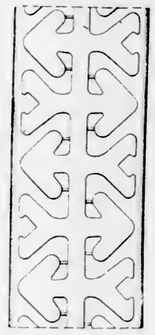
The ornamental design for a bubble blower, as shown.

55,410. PIN. JOHN B. BRADY, Somerset, Md. Filed Sept. 15, 1919. Serial No. 324,038. Term of patent 7 years.



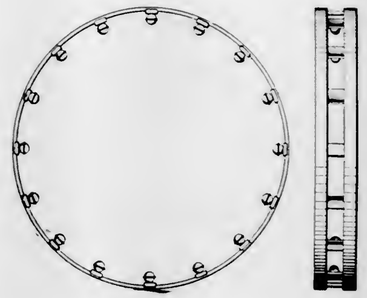
The ornamental design for a pin as shown.

55,411. TIRE-TREAD. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to World Tire Corporation, Chicago, Ill., a Corporation of New York. Filed Mar. 26, 1920. Serial No. 369,105. Term of patent 14 years.



The original design for a tire tread.

55,412. TOY JINGLE-HOOP. BESSIE B. BROWN, Raleigh, N. C. Filed Mar. 9, 1920. Serial No. 364,527. Term of patent 7 years.



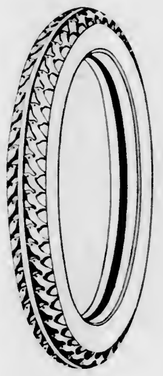
The ornamental design for a toy jingle hoop, as shown.

55,413. TOY BALL. FRANK A. CIGOL, Paterson, N. J. Filed Jan. 14, 1920. Serial No. 351,492. Term of patent 14 years.



The ornamental design for a toy ball, as shown and described.

55,414. VEHICLE-TIRE. DONALD F. CROW, Omaha, Nebr. Filed Sept. 29, 1919. Serial No. 327,339. Term of patent 3½ years.



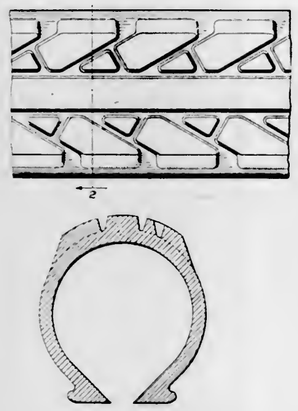
The ornamental design for a vehicle tire, as shown.

55,415. PHONOGRAPH-CABINET. MEYER DAVIS, Chicago, Ill. Filed Oct. 24, 1919. Serial No. 333,134. Term of patent 14 years.



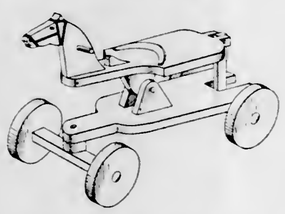
The ornamental design for a phonograph cabinet as shown.

55,416. ELASTIC VEHICLE-TIRE. JOHN W. DENMEAD, Akron, Ohio. Filed Dec. 10, 1919. Serial No. 343,929. Term of patent 14 years.



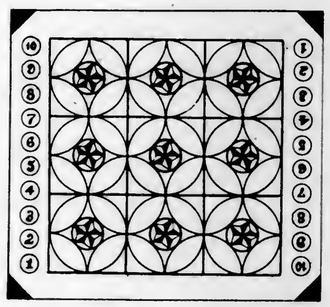
The ornamental design for an elastic vehicle tire as shown.

55,417. JUVENILE VEHICLE. JOSEPH H. DIXON, Wellington, Ohio. Filed Dec. 24, 1919. Serial No. 347,236. Term of patent 3½ years.



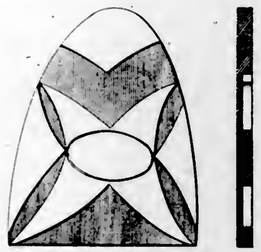
The ornamental design for a juvenile vehicle, as shown.

55,418. GAME-BOARD. JOSEPH ECKER, New York, and ELIAS GOLDBERG, Coney Island, N. Y. Filed Dec. 16, 1919. Serial No. 345,408. Term of patent 7 years.



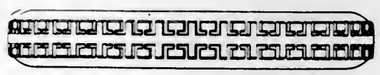
The ornamental design for a game board, as shown.

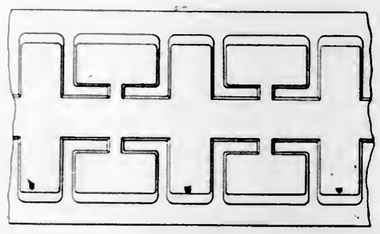
55,419. RUBBER-SHOE PLATE. DOUGLAS H. ELEY and THOMAS H. RYAN, Norfolk, Va., assignors to The Emory Rubber Sole Co., Inc., Norfolk, Va., a Corporation of Virginia. Filed Sept. 18, 1919. Serial No. 324,701. Term of patent 7 years.



The ornamental design for a rubber shoe plate, as shown.

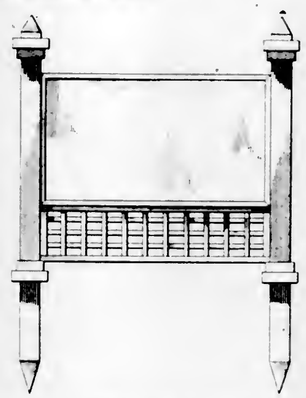
55,420. TIRE. HARRY T. GAUSS, Chicago, Ill. Filed Mar. 15, 1920. Serial No. 366,118. Term of patent 14 years.





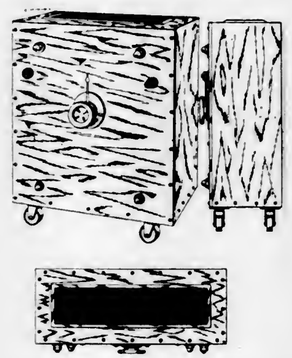
The ornamental design for a tire substantially as shown.

55,421. ADVERTISING-SIGN. JOHN W. GUINN, Lagrange, Ga. Filed Mar. 17, 1920. Serial No. 366,705. Term of patent 14 years.



The ornamental design for an advertising sign as shown.

55,422. ELECTRIC-TRANSFORMER CASE. SIDNEY M. HARVEY and SAMUEL E. LORENZ, Detroit, Mich., assignors to Electric Welding Machine Company, Detroit, Mich., a Copartnership Firm. Filed Nov. 19, 1919. Serial No. 339,197. Term of patent 14 years.



The ornamental design for an electric transformer case as shown.

55,423. CLASP FOR A RIBBON-BRACELET. RUFUS KING, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, R. I. Filed Mar. 4, 1920. Serial No. 363,324. Term of patent 7 years.



The ornamental design for a clasp for a ribbon bracelet, as shown.

55,424. CLASP FOR A RIBBON-BRACELET. RUFUS KING, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, R. I. Filed Mar. 11, 1920. Serial No. 366,071. Term of patent 7 years.



The ornamental design for a clasp for a ribbon bracelet, as shown.

55,425. TIRE-TREAD. WALTER KLINE, Mogadore, Ohio. Filed Feb. 3, 1920. Serial No. 356,980. Term of patent 7 years.



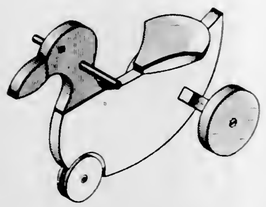
The ornamental design for a tire tread, as shown.

55,426. BEDSTEAD. BENJAMIN LIPSHITZ, Brooklyn, N. Y. Filed Nov. 26, 1919. Serial No. 340,948. Term of patent 3½ years.



The ornamental design for a bedstead, as shown.

55,427. TOY. WILLIAM F. MAAS, Rochester, N. Y., assignor to Wood Specialties, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 6, 1920. Serial No. 363,830. Term of patent 14 years.



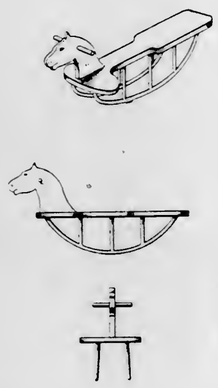
The ornamental design for a toy, as shown.

55,428. DOLL. ADELINE E. MALONE, San Francisco, Calif. Filed Feb. 6, 1920. Serial No. 358,142. Term of patent 14 years.



The ornamental design for a doll, as shown.

55,429. TOY ROCKER. LEO F. NOIROT and OTTO G. NOIROT, Peoria, Ill. Filed Dec. 19, 1919. Serial No. 346,187. Term of patent 7 years.



The ornamental design for a toy rocker as shown.

55,430. ELECTRIC LAMP. ALBERT J. D. OHM, Astoria, N. Y., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Filed Jan. 30, 1920. Serial No. 355,178. Term of patent 3½ years.



The ornamental design for an electric lamp as shown.

55,431. ELECTRIC LAMP. ALBERT J. D. OHM, Astoria, N. Y., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Filed Feb. 25, 1920. Serial No. 361,267. Term of patent 3½ years.



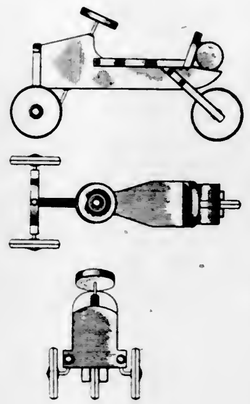
The ornamental design for an electric lamp as shown.

55,432. ELECTRIC LAMP. ALBERT J. D. OHM, Astoria, N. Y., assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Filed Mar. 2, 1920. Serial No. 362,781. Term of patent 3½ years.



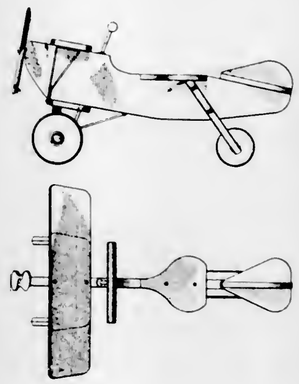
The ornamental design for an electric lamp as shown.

55,433. TOY VEHICLE. WALTER R. PEOPLES, Rochester, N. Y. Filed Mar. 6, 1920. Serial No. 363,835. Term of patent 14 years.



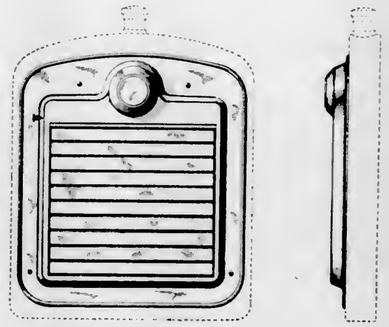
The ornamental design for a toy vehicle, as shown.

55,434. TOY VEHICLE. WALTER R. PEOPLES, Rochester, N. Y. Filed Mar. 6, 1920. Serial No. 363,836. Term of patent 14 years.



The ornamental design for a toy vehicle, as shown.

55,435. AUTOMOBILE-RADIATOR FRONT. JAMES F. RALEIGH, Chicago, Ill., assignor to Pines Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 1, 1920. Serial No. 362,561. Term of patent 14 years.



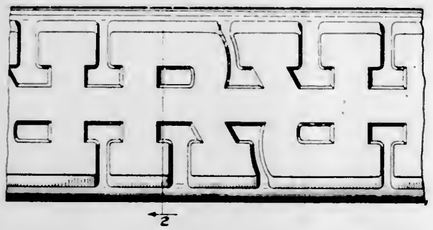
The ornamental design for an automobile radiator front, as shown.

55,436. CYLINDER-COCK CASING. IRWIN A. SEIDERS, Pennside, Pa. Filed Dec. 3, 1919. Serial No. 342,273. Term of patent 7 years.



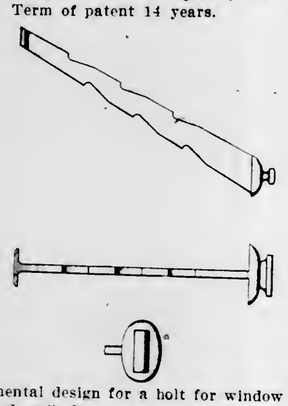
The ornamental design for a cylinder cock casing, as shown.

55,437. ELASTIC VEHICLE-TIRE. FLOYD E. SHANNON, Akron, Ohio. Filed Dec. 20, 1919. Serial No. 346,386. Term of patent 14 years.



The ornamental design for an elastic vehicle tire as shown.

55,438. BOLT FOR WINDOW-FRAMES. WILLIAM W. SLEIGHT, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,335. Term of patent 14 years.



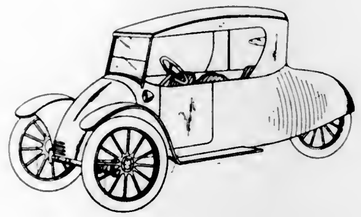
An ornamental design for a bolt for window frames as shown and described.

55,439. HOLDFAST FOR WINDOW-FRAMES. WILLIAM W. SLEIGHT, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,337. Term of patent 14 years.



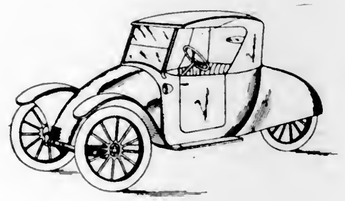
An ornamental design for a holdfast for window frames, as shown and described.

55,440. MOTOR-VEHICLE. PHINEAS MINTURN SMITH, Brooklyn, N. Y., assignor to Delmore Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 18, 1920. Serial No. 366,984. Term of patent 14 years.



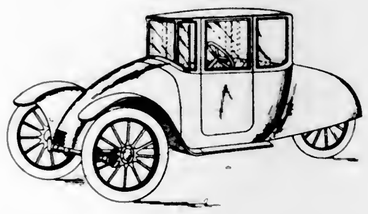
The ornamental design for a motor vehicle, as shown.

55,441. MOTOR-VEHICLE. PHINEAS MINTURN SMITH, Brooklyn, N. Y., asignor to Delmore Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 18, 1920. Serial No. 366,985. Term of patent 14 years.



The ornamental design for a motor vehicle, as shown.

55,442. MOTOR-VEHICLE. PHINEAS MINTURN SMITH, Brooklyn, N. Y., assignor to Delmore Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 18, 1920. Serial No. 366,986. Term of patent 14 years.



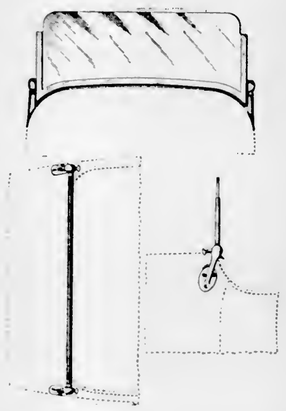
The ornamental design for a motor vehicle, as shown.

55,443. SMOKING-PIPE. EMIL STROM, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,032. Term of patent 3½ years.



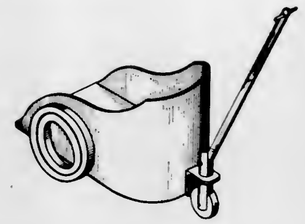
The ornamental design for a smoking pipe, as shown.

55,444. AUTOMOBILE-WINDSHIELD. WIRT W. WALTON, New York, N. Y., assignor to Noma Motor Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 12, 1920. Serial No. 365,329. Term of patent 7 years.



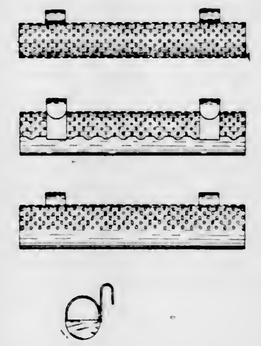
The ornamental design for an automobile windshield, as shown.

55,445. TOY VEHICLE. JESSE C. WELCH, Tacoma, Wash. Filed Dec. 17, 1919. Serial No. 345,653. Term of patent 7 years.



The ornamental design for a toy vehicle, as shown.

55,446. HUMIDOR. DANIEL M. WYGOLD, Denver, Colo. Filed Sept. 11, 1919. Serial No. 323,227. Term of patent 3½ years.



The ornamental design for a humidor, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 8, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 95,120. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARNATION MILK PRODUCTS COMPANY, Portland, Me., and Seattle, Wash. Filed May 13, 1916.

CARNATION

Particular description of goods.—Milk-Chocolate.
Claims use since May 1, 1916.

Ser. No. 98,945. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Oct. 28, 1916.

CLIMAX

Particular description of goods.—Mixed Feeds for Live Stock and Poultry.
Claims use since June 23, 1913.

Ser. No. 102,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS SCHMID, INCORPORATED, New York, N. Y. Filed Mar. 22, 1917.

FANTAISIE

Particular description of goods.—Face-Powders, Rouges, Eyebrow-Pencils, Compacts, Lip-Salve, Lip-Rouge, and Nail-Polish.
Claims use since January, 1915.

Ser. No. 106,555. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CONTINENTAL FIBRE COMPANY, Newark, Del. Filed Oct. 2, 1917.

BAKELITE-DILECTO

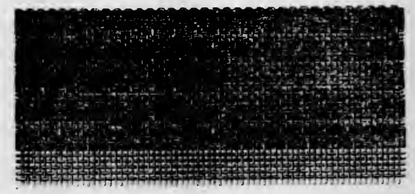
Particular description of goods.—Electrical Insulating Material.
Claims use since May, 1912.

Ser. No. 107,226. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ALFRED DUNHILL, St. James, London, England. Filed Nov. 8, 1917.

GADGETT

Particular description of goods.—Articles for Smokers—Namely, Tobacco-Pipes, Cigar and Cigarette Holders, Pipe Plugs and Pressers, Tobacco-Pouches, Devices for Cleaning Pipes, Cigarette-Cases, and Cases for Containing Pipes—Not of Precious Metal or Imitation of Precious Metal.
Claims use since July 17, 1917.

Ser. No. 107,954. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOUTWELL FAIRCLOUGH & GOLD, INC. (now by change of name Fairclough & Gold, Inc.,) Boston, Mass. Filed Dec. 14, 1917.



The mark consists of five parallel lines or stripes extending longitudinally along the selvage of the goods and is applied or fixed to the goods by providing the fabric with a selvage displaying the mark, the stripes being woven into and incorporated as a part of the goods, and by placing thereon a printed label on which the selvage displaying the five parallel stripes is shown.
Particular description of goods.—Serim.
Claims use since about Mar. 30, 1917.

Ser. No. 109,941. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GROTON ELECTRICAL DEVICES, INC., Groton, N. Y. Filed Apr. 3, 1918.

AIRDRY

Particular description of goods.—Electrical Lavatory Drying-Machines.
Claims use since Oct. 15, 1917.

Ser. No. 110,081. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOKANE MEELMOLENS (SPOKANE FLOUR MILLS), Amsterdam, Holland, and Pendleton, Oreg. Filed Apr. 9, 1918.

ROUNDUP

Particular description of goods.—Wheat-Flour.
Claims use since about January, 1917.

Ser. No. 111,391. (CLASS 39. CLOTHING.) IGNATZ GROSS, Los Angeles, Calif. Filed June 6, 1918.

☆LIBERTY BOY☆

In the drawing the lining represents the colors used on the label, the words "Liberty Boy," being in red, the stars being in blue, the upper line above the words "Liberty Boy" being in red, and the lower line being in blue.
Particular description of goods.—Boys' Suits, Overcoats, and Caps.
Claims use since the 28th day of May, 1918.

Ser. No. 112,993. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARCUS LUCIUS QUINN CONSERVATORY OF MUSIC, Boston, Mass. Filed Sept. 3, 1918.

QUINN-DEX

Particular description of goods.—Educational Appliance.
Claims use since about July 1, 1918.

Ser. No. 113,047. (CLASS 31. FILTERS AND REFRIGERATORS.) GEORGE R. JARMAN, Baltimore, Md. Filed Sept. 6, 1918.

THE JARMAN EUREKA TRADE MARK MFD. BY G.R. JARMAN REFRIGERATING CO. NO. TYPE BALTIMORE MD.

No claim being made to the words "Trade Mark, Mfd. by G. R. Jarman Refrigerating Co., Baltimore, Md., No., Type" nor to the representation of the name-plate.
Particular description of goods.—Refrigerating-Machines.
Claims use since 1917.

Ser. No. 114,191. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DANIEL B. REPLOGLE, Berkeley, Calif. Filed Nov. 15, 1918.

AIR PNEUMODE WAY

Particular description of goods.—Electrically-Operated Pneumatic or Vacuum Sweepers and Cleaners and Parts Thereof—Namely, Dust-Collectors, Covers and Liners for Dust-Collectors, Suction-Hose, Suction-Pipes, Suction-Brushes, Suction Hand-Tools, and Suction Floor-Tools; Also Electric Cords, Cord-Reels, and Electric Connectors.
Claims use since the 1st day of January, 1918.

Ser. No. 114,263. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BAKER WHEEL & RIM COMPANY, Chicago, Ill. Filed Nov. 21, 1918.

SEMI-WOOD

Particular description of goods.—Motor-Vehicle Wheels.
Claims use since Sept 22, 1918.

Ser. No. 114,312. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. J. BADENOCH CO., Chicago, Ill. Filed Nov. 23, 1918.

C-EM-GROW

Particular description of goods.—Stock and Poultry Feeds.
Claims use since Nov. 16, 1918.

Ser. No. 114,815. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLOVER LEAF MILLING COMPANY, Wellington, Mo. Filed Dec. 26, 1918.

CLOVERLEAF

Particular description of goods.—Wheat-Flour as Distinguished from and Exclusive of Prepared Cereal Products.
Claims use since on or about Aug. 1, 1917.

Ser. No. 115,675. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GASTON, WILLIAMS & WIGMORE, INC., New York, N. Y. Filed Feb. 7, 1919.

GASTONOR

Pine Cone

Particular description of goods.—Turpentine.
Claims use since Nov. 27, 1918.

Ser. No. 115,693. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JOHN C. MARTIN, New York, N. Y. Filed Feb. 8, 1919.

HAT BLOCKS, FLANGES, DIES & MACHINERY N. Y. MARTIN-GIUSTI

The words "Hat Blocks, Flanges, Dies & Machinery" and the letters "N. Y." being disclaimed.
Particular description of goods.—Hat-Blocking Dies and Hat-Blocks
Claims use since about the year 1913.

Ser. No. 116,308. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE THOMAS LAUGHLIN CO., Portland, Me. Filed Mar. 5, 1919.

"MISSING LINK"

Particular description of goods.—Metal Links for Chains.
Claims use since Jan. 5, 1904.

Ser. No. 116,361. (CLASS 37. PAPER AND STATIONERY.) C. H. DEXTER & SONS, INCORPORATED, Windsor Locks, Conn. Filed Mar. 7, 1919.



In the accompanying drawing the body portion of the panel is lined to indicate shading and the scroll design is lined to indicate red.
Particular description of goods.—Paper—Namely, Tissue-Papers of All Kinds, Toilet-Paper, Writing-Paper, Typewriting-Paper, Covers, and Pattern-Paper.
Claims use since at least April, 1891.

Ser. No. 116,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN L. FISCHER & BROTHER, Louisville, Ky. Filed Mar. 7, 1919.

RU-NU

Particular description of goods.—A Medicine for Rheumatism, Neuralgia, Colds, La Grippe, Kidney and Stomach Troubles, Splitting Headache, Fever, Pain in Back and Side, and Tired Feeling.
Claims use since the 13th day of March, 1920.

Ser. No. 116,712. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HALCOMB & DAVIDSON, INC., New York, N. Y. Filed Mar. 19, 1919.

BEAVER

No claim is made to the representation of the hollow steel bar appearing on the drawing apart from the mark as shown.
Particular description of goods.—Bar-Steel, Hollow and Solid.
Claims use since June, 1918.

Ser. No. 116,736. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE CABLE COMPANY, Chicago, Ill. Filed Mar. 20, 1919.

Cable

Particular description of goods.—Pianos, Player-Pianos, and Parts Thereof.
Claims use since Feb. 2, 1900.

Ser. No. 116,737. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE CABLE COMPANY, Chicago, Ill. Filed Mar. 20, 1919.

The Cable Company

No claim being made to the word "Chicago" apart from the mark shown in the drawing.
Particular description of goods.—Pianos, Player-Pianos, and Parts Therefor.
Claims use since about the year 1903.

Ser. No. 116,750. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHWESTERN HIDE & FUR CO., Minneapolis, Minn. Filed Mar. 20, 1919.



Particular description of goods.—A Poison for Animals.
Claims use since on or about Sept. 1, 1894.

Ser. No. 117,006. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE CROWN BREWING COMPANY, Cincinnati, Ohio. Filed Mar. 29, 1919.

Silvo

Particular description of goods.—A Non-Alcoholic Cereal Beverage of Malt Nature.
Claims use since Jan. 1, 1919.

Ser. No. 117,213. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ERNEST BERNSTEIN, Chicago, Ill. Filed Apr. 7, 1919.

KARMO

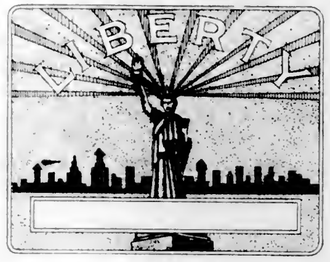
Particular description of goods.—Non-Alcoholic Maltless Non-Cereal Syrup Used to Make Soft-Drink Beverages for Soda-Fountain Preparations.
Claims use since November, 1913.

Ser. No. 117,220. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Apr. 7, 1919.

JACK-O-LANTERN

Particular description of goods.—Candy.
Claims use since Dec. 1, 1918.

Ser. No. 117,272. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EZEKIEL BROTHERS, New York, N. Y. Filed Apr. 8, 1919.



In the drawing the stippled portion represents a blue background, and the radiating stripes are red.
Particular description of goods.—Condensed Milk.
Claims use since about Mar. 14, 1919.

Ser. No. 117,351. (CLASS 15. OILS AND GREASES.) THE OHIO CITIES GAS CO., Columbus, Ohio. Filed Apr. 10, 1919.

PUROL

Particular description of goods.—Gasolene.
Claims use since Mar. 22, 1919.

Ser. No. 117,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Apr. 15, 1919.



Particular description of goods.—Hog Feed.
Claims use since the 1st day of January, 1914.

Ser. No. 117,491. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Apr. 15, 1919.



Particular description of goods.—Poultry Feed, Chick Size.
Claims use since the 1st day of January, 1914.

Ser. No. 117,520. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM WOLFF ABEL, Macon, Ga. Filed Apr. 16, 1919.

CALORETS

Particular description of goods.—A Preparation for the Treatment of Biliousness, Constipation, Foul Stomach, and Torpid Liver.
Claims use since October, 1918.

Ser. No. 117,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EGG-O CO., Baltimore, Md. Filed Apr. 16, 1919.

MILK-MAID

Particular description of goods.—A Flavored Pudding-Dessert Mixture.
Claims use since Jan. 16, 1919.

Ser. No. 117,735. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEXICAN PRODUCTS CO., Laredo, Tex. Filed Apr. 22, 1919.

"La Rosita"

Particular description of goods.—Chocolates.
Claims use since Jan. 2, 1917.

Ser. No. 117,962. (CLASS 39. CLOTHING.) JOHN HENRY WALKER, Ravensthorpe, near Dewsbury, England. Filed Apr. 28, 1919.



Particular description of goods.—Dresses, Robes, Costumes, Shirts, Shirtwaists, Textile Underwear, Hosiery, Aprons, Bathing-Suits, Bibs, Bonnets, Fabric Gloves and Mittens, Hats and Caps, Outer and Under Skirts, Sweaters, Coats and Overcoats, Vests, Cloaks, Collars and Cuffs, Jackets, Jumpers, Night-Shirts, Pajamas, Bath Robes and Wrappers, Chemises, Drawers, Corset-Covers, Corset-Waists, Brassières, Nightgowns, Uniforms, Trousers, Shawls of Silk, Wool, Worsted, Cotton, and Hair.
Claims use since Jan. 5, 1918.

Ser. No. 117,964. (CLASS 39. CLOTHING.) JOHN HENRY WALKER, Ravensthorpe, near Dewsbury, England. Filed Apr. 28, 1919.

VIGIL

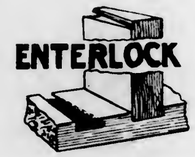
Particular description of goods.—Dresses, Robes, Costumes, Shirts, Shirtwaists, Textile Underwear, Hosiery, Aprons, Bathing-Suits, Bibs, Bonnets, Fabric Gloves and Mittens, Hats and Caps, Outer and Under Skirts, Sweaters, Coats and Overcoats, Vests, Cloaks, Collars and Cuffs, Jackets, Jumpers, Night-Shirts, Pajamas, Bath Robes and Wrappers, Chemises, Drawers, Corset-Covers, Corset-Waists, Brassières, Nightgowns, Uniforms, Trousers, Shawls of Silk, Wool, Worsted, Cotton, and Hair.
Claims use since Jan. 21, 1915.

Ser. No. 118,339. (CLASS 15. OILS AND GREASES.) CLAUDE E. MCLAUGHLIN, Lamar, Colo. Filed May 9, 1919.



Particular description of goods.—Kerosene, Gasolene, and Lubricating-Oils.
Claims use since Mar. 1, 1918.

Ser. No. 118,440. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) E. A. LAUGHLIN LUMBER CO., Port Arthur, Tex. Filed May 13, 1919.



Particular description of goods.—Ready-Cut Parts of a Building of a Predetermined Size and Style.
Claims use since the 14th day of February, 1919.

Ser. No. 118,602. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON & BONNIER, Detroit, Mich. Filed May 17, 1919.



Showing a woman with a child in her arms as a trade-mark, with the words "Mother's Kisses" across the face of the mark.
Particular description of goods.—A Brand of Candy.
Claims use since Mar. 10, 1919.

Ser. No. 118,751. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDER W. CHAPPELL, Red Bank, N. J. Filed May 21, 1919.



No claim being made to the words "Rubiton" or "Egg Preserver" or the other language shown on the drawing.
Particular description of goods.—A Chemical Egg-Preserver.
Claims use since May 1, 1918.

Ser. No. 119,056. (CLASS 39. CLOTHING.) JOHN WANAMAKER, NEW YORK, New York, N. Y. Filed May 29, 1919.

DUMBARTON

Particular description of goods.—Women's, Misses', and Children's Outer Wearing-Apparel—Namely, Coats, Suits, Waists, Skirts, and Dresses.
Claims use since about May 20, 1919.

Ser. No. 119,120. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & CO., Jersey City, N. J., and New York, N. Y. Filed June 2, 1919.

"HANDY GRIP"

The exclusive use of the word "Grip" being disclaimed except in connection with the word "Handy."
Particular description of goods.—Shaving-Soap in the Form of a Combined Stick and Container and Refills for the Container.
Claims use since Aug. 15, 1916.

Ser. No. 119,467. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BULLARD MACHINE TOOL CO., Bridgeport, Conn. Filed June 11, 1919.

BULLARD

Particular description of goods.—Machine-Tools—Namely, Vertical Turret-Lathes, Multiple-Spindle Machines, Boring and Turning Mills, and Lathes.
Claims use since December, 1905.

Ser. No. 119,521. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. E. KIESLING, Houston, Tex. Filed June 12, 1919.

GLORIANA

Particular description of goods.—Rouge, Lip-Stick, Face-Powder, Tar Shampoo, Egg Shampoo, Toilet Water, Tooth-Paste, Shaving-Lotion; Cleansing, Massage, Vanishing, Beauty, Cold, and Toilet Creams.
Claims use since June 28, 1918.

Ser. No. 119,665. (CLASS 12. CONSTRUCTION MATERIALS.) JOHN B. RANSOM & COMPANY, Nashville, Tenn. Filed June 16, 1919.

OAK

No claim being made for the letters "Oak" apart from the mark shown.
Particular description of goods.—Shingles, Laths, and Oak Flooring.
Claims use since May 25, 1919.

Ser. No. 119,815. (CLASS 39. CLOTHING.) ROSENBERG BROS. & CO., Rochester, N. Y. Filed June 20, 1919.

OVERSAK

Particular description of goods.—Men's Coats, Vests, and Suits.
Claims use since on or about the 15th day of May, 1919.

Ser. No. 119,816. (CLASS 39. CLOTHING.) ROSENBERG BROS. & CO., Rochester, N. Y. Filed June 20, 1919.

BI-SWING

The lining on the drawing is for shading only and not for color.
Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.
Claims use since on or about the 15th day of November, 1917.

Ser. No. 119,882. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CAMPBELL ELECTRIC CO., Lynn, Mass. Filed June 24, 1919.

Campbell Coolidge

Particular description of goods.—Cabinets of X-Ray Units Containing X-Ray Transformers and Accessory Equipment.
Claims use since Jan. 1, 1919.

Ser. No. 119,984. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE NARROW FABRIC CO., Wyomissing, Pa. Filed June 26, 1919.

Narotex

Particular description of goods.—Rick-Rack, Wave-Braids, Tailors' Braids, Garment-Trimming Braids, Shoe-Lacers, Corset-Lacers, Loom-Woven Edgings, Corset-Top Trimmings, Millinery-Braids, Artificial Silk.
Claims use since May 14, 1919.

Ser. No. 119,989. (CLASS 15. OILS AND GREASES.) ROCHESTER RAILWAY AND LIGHT COMPANY, Rochester, N. Y. Filed June 26, 1919.

Bengas

Particular description of goods.—Fuel-Oils.
Claims use since May 8, 1919.

Ser. No. 120,044. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PERRY CORNING, Yonkers, N. Y. Filed June 28, 1919.



No claim being made to the words "Delicious & Refreshing, Satisfies a Thirsty World."
Particular description of goods.—A Non-Alcoholic Beverage Made from Pure Fruit-Juices, Selected Ginger-Root, and Granulated Cane-Sugar.
Claims use since June 9, 1919.

Ser. No. 120,660. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHICAGO BELTING COMPANY, Chicago, Ill. Filed July 18, 1919.



No claim being made to the words "Trade" and "Mark" apart from the mark as shown on the drawing.
Particular description of goods.—A Dressing and Preservative for Leather, Rubber, Canvas, and Fabric Belting and other Leather Products.
Claims use since June 28, 1919.

Ser. No. 121,246. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON CO., New York, N. Y. Filed Aug. 4, 1919.

Wearever

Particular description of goods.—Toothbrushes.
Claims use since Aug. 27, 1915.

Ser. No. 121,284. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAX STEINBERG, New York, N. Y. Filed Aug. 5, 1919.

DOUBLESSE

Particular description of goods.—Embroideries in the Piece.
Claims use since July 1, 1914.

Ser. No. 121,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JIFFO COMPANY, INCORPORATED, Little Rock, Ark. Filed Aug. 8, 1919.

JIFFO

Particular description of goods.—Ready-Mixed Cake-Flour.
Claims use since Apr. 3, 1919.

Ser. No. 121,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. B. MALLARD CO., Jacksonville, Fla. Filed Aug. 9, 1919.

HUNT CLUB

Particular description of goods.—Canned Vegetables, Canned Fruits, Preserves, and Pickles.
Claims use since Oct. 1, 1918.

Ser. No. 121,616. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BECTON, DICKINSON & CO., Rutherford, N. J. Filed Aug. 13, 1919.

"CHAMPION"

Particular description of goods.—Veterinary Needles and Veterinary Syringes, Pill-Injectors, Milking-Tubes, Teat-Dilating Tubes, and Clinical Thermometers.
Claims use since the latter part of 1914.

Ser. No. 121,684. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VICTORY DRUG & MEDICINE CO., Columbus, Ohio. Filed Aug. 14, 1919.

V-TO

Particular description of goods.—Medicinal Preparation for Rheumatism, Stomach and Kidney Trouble, Liver Complaint, Consumption, Asthma, and Neuralgia.
Claims use since Apr. 25, 1919.

Ser. No. 121,813. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARITIME TRADING CORPORATION, New York, N. Y. Filed Aug. 19, 1919.

RED E EVER

Particular description of goods.—Stock and Poultry Food.
Claims use since about August, 1919.

Ser. No. 121,913. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHAKESPEARE COMPANY, Kalamazoo, Mich. Filed Aug. 22, 1919.

Shakespeare STEEL-KAIN

Particular description of goods.—Casting-Rods.
Claims use since Feb. 15, 1919.

Ser. No. 121,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALDO P. JOHNSON, Chicago, Ill. Filed Aug. 25, 1919.

NO-SHRIN K K

Particular description of goods.—Feeds for Poultry.
Claims use since Aug. 16, 1919.

Ser. No. 122,058. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) STROMBORG EXPORT & IMPORT CO., INC., New York, N. Y., assignor to Jonkopings & Vulcans Tandsticksfabriks Aktiebolag, Jonkopings, Sweden. Filed Aug. 27, 1919.

VULCAN

Particular description of goods.—Matches.
Claims use since 1887.

Ser. No. 122,108. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Aug. 29, 1919.

PRISCILLA

Particular description of goods.—Electric Flatirons.
Claims use since July 15, 1914.

Ser. No. 122,131. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NORTHAMPTON CUTLERY COMPANY, Northampton, Mass. Filed Aug. 29, 1919.

Everbrite

Particular description of goods.—Table-Knives of Base Metal.
Claims use since June 1, 1919.

Ser. No. 122,178. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM JOSEPH MEARS, Kansas City, Mo. Filed Aug. 30, 1919.

CAMPHO-MUSTRO

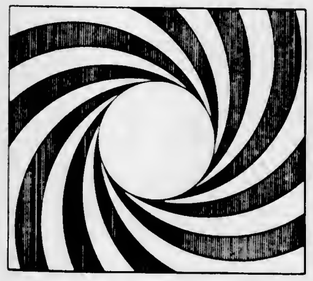
Particular description of goods.—A Medical Preparation for the Treatment and Relief of Colds.
Claims use since Sept. 1, 1917.

Ser. No. 122,190. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SCIENTIFIC MATERIALS COMPANY, Pittsburgh, Pa. Filed Aug. 30, 1919.

FISHERVIEW

The lining represents shading.
Particular description of goods.—Optical Apparatus for Magnifying and Viewing Stereoscopic, Transparent, and Photographic Plates.
Claims use since about Aug. 1, 1919.

Ser. No. 122,228. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Sept. 2, 1919.



The curved blades or zones of the main design are in white and red, the said color red being indicated by the conventional lines.
Particular description of goods.—Buckwheat Pancake-Flour, Wheat Cereal, Pancake-Flour, Rolled Oats, and Health-Bran.
Claims use since on or about Apr. 15, 1914.

Ser. No. 122,237. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CO-OPERATIVE DRUG COMPANY, INCORPORATED, Philadelphia, Pa. Filed Sept. 2, 1919.

Perlox

Particular description of goods.—Face-Cream.
Claims use since the 21st day of July, 1903.

Ser. No. 122,432. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HAMILTON MOTORS COMPANY, Grand Haven, Mich. Filed Sept. 8, 1919.

Apex THE TWIN FRAME TRUCK

No claim being made to the words "The Twin Frame Truck" apart from the mark shown on the drawing.
Particular description of goods.—Motor-Trucks and Automobiles.
Claims use since Sept. 1, 1919.

Ser. No. 122,758. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BRECHT CANDY CO., Denver, Colo. Filed Sept. 16, 1919.

Brecht

"Makes Life Sweeter"

Particular description of goods.—Candies.
Claims use since Oct. 15, 1917.

Ser. No. 122,787. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSSMAN BROTHERS, New York, N. Y. Filed Sept. 16, 1919.

ROSBRO

Particular description of goods.—Cotton Goods in the Piece and Cotton and Silk Goods in the Piece.
Claims use since May 1, 1919.

Ser. No. 122,958. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BUSSMANN MANUFACTURING COMPANY, St. Louis, Mo. Filed Sept. 22, 1919.

BussFuses

Particular description of goods.—Electric Fuses and Cut-Outs.
Claims use since Sept. 15, 1918.

Ser. No. 123,073. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH B. MCMANES, Columbus, Ohio. Filed Sept. 24, 1919.

BROMO ASPIRIN

No claim is made upon the words "Bromo Aspirin" apart from the showing in the drawing.
Particular description of goods.—Medicine in Tablet and Powder Form for Nervous and Sick Headache.
Claims use since about Feb. 1, 1917.

Ser. No. 123,144. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) U. S. GARTER & SUSPENDER COMPANY, Chicago, Ill. Filed Sept. 25, 1919.

Paramount

No claim is made, however, in this trade-mark to the representation of the goods—viz., a representation of garters—apart from the mark as shown in the drawing.
Particular description of goods.—Garters, Hose-Supporters, Armbands, and Suspenders.
Claims use since Oct. 1, 1918.

Ser. No. 123,164. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. D. KENNY CO., Baltimore, Md. Filed Sept. 26, 1919.

KENNY'S MIAMI

Exclusive use of the word "Miami" is disclaimed apart from the mark shown.
Particular description of goods.—Coffee.
Claims use since Feb. 1, 1919.

Ser. No. 123,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES C. PANAGHIOTOPULOS, Chicago, Ill. Filed Sept. 29, 1919.

MARATHON

Particular description of goods.—Toilet Preparations—Namely, Complexion-Powder, Face-Powder, Hair-Tonic, Dandruff-Ointment, Hair-Shampoo, Cold-Cream.
Claims use since Feb. 1, 1919.

Ser. No. 123,344. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EVRBEST MILLING CORPORATION, Erie, Pa. Filed Oct. 2, 1919.

EVR Best

Particular description of goods.—Cornmeal, Bolted Meal, Buckwheat-Flour, Wheat-Flour, Pastry-Flour, and Graham-Flour.
Claims use since April, 1916.

Ser. No. 123,368. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) J. W. RICHARDSON FOUNDRY-METALS CORPORATION, New York, N. Y. Filed Oct. 2, 1919.

JWR

Particular description of goods.—Metal Castings Made of Iron, Copper, Brass, and Lighter Metals, Such as Are Generally Used in the Construction of Machinery and Parts and Tools.
Claims use since July 22, 1919.

Ser. No. 123,396. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES OPPENHEIMER, Philadelphia, Pa. Filed Oct. 3, 1919.

PARAGON

WORN ALL OVER THE WORLD

The picture forming a feature of the mark is a copy of the portrait of Villette Stringer. No claim is made to the representation of the hair-nets as apart from the mark shown. No claim is made to the words "Worn All Over the World" apart from the mark shown on the drawing.
Particular description of goods.—Hair-Nets.
Claims use since on or about the 4th day of August, 1919.

Ser. No. 123,548. (CLASS 37. PAPER AND STATIONERY.) W. J. MAY & CO., LIMITED, East Twickenham, England. Filed Oct. 8, 1919.

The horizontal lines of the background shown in the drawing being intended to indicate a blue checkered effect, the words "Fountain Pen" and the representation of a pen being hereby disclaimed apart from the other features of the mark shown.
Particular description of goods.—Fountain-Pens.
Claims use since December, 1918.

Ser. No. 123,649. (CLASS 17. TOBACCO PRODUCTS.) ESTATE OF I. B. KRINSKY, INC., New York, N. Y. Filed Oct. 10, 1919.

Federal

Particular description of goods.—Cigarettes, Little Cigars, and Smoking-Tobacco.
Claims use since 1914 and in the business of its predecessors, Federal Cigarette & Tobacco Company, on cigarettes since 1911, on little cigars since 1914, and on smoking-tobacco since 1918.

Ser. No. 123,671. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Oct. 10, 1919.

150

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 123,839. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PAUL R. BROWN, Yonkers, N. Y. Filed Oct. 16, 1919.

TIP-TOP METAL

No claim is made to the word "Metal" as a part of the trade-mark registered hereby.
Particular description of goods.—Babbitt Metal and Antifriction Metals.
Claims use since Sept. 1, 1919.

Ser. No. 123,962. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANTERBURY CANDY MAKERS, Seattle, Wash. Filed Oct. 20, 1919.

Canterbury

No claim being made to the words "Candies" and "Seattle" apart from the mark shown in the drawing.
Particular description of goods.—Candy, Fresh Fruits, and Nuts in Their Natural State.
Claims use since January, 1918.

Ser. No. 123,977. (CLASS 39. CLOTHING.) GREENEBAUM WEIL & MICHELS, San Francisco, Calif. Filed Oct. 20, 1919.

THE Laddie COAT

Said trade-mark consists of the words "The Laddie Coat," surrounded by an oval-shaped line. Applicant disclaims the word "Coat" apart from the mark shown.

Particular description of goods.—Men's and Women's Knit and Textile Coats and Sweaters.

Claims use since Aug. 1, 1919.

Ser. No. 124,122. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PYRENE MANUFACTURING COMPANY, New York, N. Y. Filed Oct. 23, 1919.

Pyrene

Particular description of goods.—Cleaning Material Particularly for Removing Grease-Spots, &c., from Fabrics or other Material.

Claims use since Aug. 1, 1919.

Ser. No. 124,154. (CLASS 39. CLOTHING.) SAR-ANN MANUFACTURING CO., St. Louis, Mo. Filed Oct. 24, 1919.

SAR-ANN

Particular description of goods.—Boot-Tops and Spats.

Claims use since August, 1919.

Ser. No. 124,190. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RACINE AUTO TIRE COMPANY, Racine, Wis. Filed Oct. 25, 1919.

HORSE SHOE RE-CORD TUBE

No claim is herein made for the word "Tube" apart from the mark shown.

Particular description of goods.—Inner Tubes for Pneumatic Tires.

Claims use since about the first part of March, 1919.

Ser. No. 124,332. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BLACK PRODUCTS COMPANY, Chicago, Ill. Filed Oct. 30, 1919.

BLACK DIAMOND

The trade-mark consists of the representation of a diamond and the words "Black Diamond."

Particular description of goods.—Targets.

Claims use since April, 1915.

Ser. No. 124,484. (CLASS 39. CLOTHING.) KEET & ROUNTREE DRY GOODS CO., Springfield, Mo. Filed Nov. 3, 1919.

FITS ALL OVERS

The lining on the drawing is for red within the diamond and for blue outside the diamond and within the parallelogram.

Particular description of goods.—Overalls.

Claims use since Aug. 1, 1919.

Ser. No. 124,538. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BEVERAGE COMPANY, Norristown, Pa. Filed Nov. 4, 1919.

HALE

Particular description of goods.—A Beverage Made of Malt and Cereals and Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.

Claims use since October, 1919.

Ser. No. 124,650. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ILG ELECTRIC VENTILATING COMPANY, Chicago, Ill. Filed Nov. 7, 1919.

HIGH EFFICIENCY TRADE ILG MARK VENTILATING MACHINERY

No claim being made to the words "High Efficiency Ventilating Machinery" or to the proper name "I L G" or the words "Trade Mark" apart from the diamond-shaped field on which said name and words appear.

Particular description of goods.—Electrically-Operated Fans and Blowers.

Claims use since Oct. 1, 1919.

Ser. No. 124,716. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARTHUR H. GAMMON, Haverhill, Mass. Filed Nov. 10, 1919.

Cre-Bee

Particular description of goods.—A Liquid for Polishing Automobile-Bodies, Pianos, and Furniture.

Claims use since Sept. 1, 1913.

Ser. No. 124,939. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ILG ELECTRIC VENTILATING COMPANY, Chicago, Ill. Filed Nov. 15, 1919.

ILGAIR

Particular description of goods.—Electrically-Operated Heating and Ventilating Units.

Claims use since Oct. 1, 1918.

Ser. No. 125,060. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RIVERSIDE MILL COMPANY, Reno, Nev. Filed Nov. 18, 1919.

MASTER

The word "Master" is lined to indicate red.

Particular description of goods.—Wheat-Flour.

Claims use since about Aug. 1, 1918.

Ser. No. 125,063. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SIG. I. ROTHSCHILD, New York, N. Y. Filed Nov. 18, 1919.

SIR

Particular description of goods.—Dolls and Toys—viz., Rubber Animals and Rattles.

Claims use since on or about the 1st day of May, 1919.

Ser. No. 125,078. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CORADINE, San Francisco, Calif. Filed Nov. 19, 1919.

Particular description of goods.—Face-Cream, Face-Lotion, Hand-Lotion, Hair-Tonic, Antiseptic Hair-Tonic, Scalp-Tonic, Scalp-Paste.

Claims use since Oct. 17, 1919.

Ser. No. 125,079. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CORADINE, San Francisco, Calif. Filed Nov. 19, 1919.

CORADINE

Particular description of goods.—Face-Lotion, Hand-Lotion, Hair-Tonic, Antiseptic Hair-Tonic, Scalp-Tonic, Scalp-Paste, and Cold-Cream.

Claims use since Oct. 17, 1919.

Ser. No. 125,263. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TROY DRY GOODS CO. INC., Troy, N. Y. Filed Nov. 24, 1919.

HELPURSELF BASEMENT

No claim is made to the words "You Wait on Yourself and Save Money" apart from the other features of the mark.

Particular description of goods.—Corn-Starch, Raisins, Shredded Cocoanut, Vinegar, Catsup, Jams, Jellies, Mustard, and Canned Vegetables and Fruits—Namely, Tomatoes, Corn, Peas, Beans, Vegetables for Soup, Pears, and Peaches.

Claims use since April, 1919.

Ser. No. 125,274. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) COLUMBIA GRAPHOPHONE MANUFACTURING COMPANY, Bridgeport, Conn. Filed Nov. 25, 1919.



Particular description of goods.—Talking-Machine Records.
Claims use since Mar. 11, 1918.

Ser. No. 125,460. (CLASS 39. CLOTHING.) THE HILKER-WIECHERS MFG. CO., Racine, Wis. Filed Dec. 1, 1919.



No claim being made for the word "Shirt" and for the words "Tub Test" apart from the mark shown.
Particular description of goods.—Work-Shirts, Dress-Shirts, and Flannel Shirts.
Claims use since about the 1st of September, 1918.

Ser. No. 125,465. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEEBLER WEYL BAKING CO., Philadelphia, Pa. Filed Dec. 1, 1919.

HEARTY

Particular description of goods.—Crackers, Biscuits, Cakes, Crullers, Pies, Cookies, Cake, Chocolate, Chewing-Gum, and Candy.
Claims use since about Oct. 30, 1919.

Ser. No. 125,466. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) LUMINOUS SPECIALTY COMPANY, Indianapolis, Ind. Filed Dec. 1, 1919.

Eye Shield Diffuser

No claim being made to the word "Diffuser" apart from the mark shown in the drawing.
Particular description of goods.—Lighting Units—Namely, Translucent Reflectors for Semi-Indirect Illumination.
Claims use since about Jan. 1, 1916.

Ser. No. 125,795. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. MINKENHOF & COMPANY, New York, N. Y. Filed Dec. 10, 1919.



Particular description of goods.—Cotton Piece Goods, Half-Woolens, and Woolens, the Half-Woolens Being Mixtures and in the Piece and the Woolens Being in the Piece.
Claims use since Nov. 25, 1919.

Ser. No. 125,799. (CLASS 11. INKS AND INKING MATERIALS.) HENRY L. PEREZ, New York, N. Y. Filed Dec. 10, 1919.

INQ

Particular description of goods.—Concentrated Ink, Powdered Ink, Ink-Sticks, and Ink for Writing Purposes.
Claims use since October, 1919.

Ser. No. 125,813. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE TOY TINKERS, Evanston, Ill. Filed Dec. 10, 1919.



Particular description of goods.—Dolls, Figure Toys, Rattles, Construction Toys, Bowling Games, Seesaws, Duck Games, Toy Building-Blocks.
Claims use since Nov. 15, 1919.

Ser. No. 125,853. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OPPENHEIMER & BERLINER, INC., New York, N. Y. Filed Dec. 11, 1919.



The words "Cotton Fabrics" appearing on said trade-mark are disclaimed apart from the mark shown on the drawing, and no claim is made for the registration of said words.
Particular description of goods.—Printed and Woven Cotton Fabrics and Cotton Textiles of All Descriptions.
Claims use since Oct. 1, 1919.

Ser. No. 125,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES ROBERTSON & SONS, PRESERVE MANUFACTURERS, LIMITED, Paisley, Scotland. Filed Dec. 11, 1919.

SILVER SHRED

Particular description of goods.—Marmalade.
Claims use since 1905.

Ser. No. 125,863. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAMUEL M. SCHMIDT, Winthrop, Mass. Filed Dec. 11, 1919.



No claim is made to the word "Health."
Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks.
Claims use since Nov. 15, 1919.

Ser. No. 125,880. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JEANETTE M. ENSIGN, Chicago, Ill. Filed Dec. 12, 1919.

LUSTRĒONE

Particular description of goods.—A Liquid Polish or Dressing for Furniture, Floors, and Automobiles.
Claims use since Nov. 15, 1918.

Ser. No. 125,963. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOLUSKA CORPORATION, New York, N. Y. Filed Dec. 13, 1919.

MOLUSKA

Particular description of goods.—Canned Concentrated Clam and Oyster Juices.
Claims use since December, 1918.

Ser. No. 125,968. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE OSCAR ONKEN COMPANY, Cincinnati, Ohio. Filed Dec. 13, 1919.

Regal

Particular description of goods.—Phonographs and Phonograph-Record Cabinets.
Claims use since Dec. 4, 1919.

Ser. No. 125,972. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE ROSEMAN, Philadelphia, Pa. Filed Dec. 13, 1919.

KANE SYRO

Particular description of goods.—Molasses.
Claims use since Nov. 15, 1919.

Ser. No. 126,032. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE HERZFELD-PHILLIPSON COMPANY, Milwaukee, Wis. Filed Dec. 15, 1919.

AUTOCHORD

Particular description of goods.—Player-Pianos.
Claims use since about Jan. 1, 1916.

Ser. No. 126,195. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 17, 1919.

JONQUILINE

Particular description of goods.—Food-Colors.
Claims use since Dec. 8, 1919.

Ser. No. 126,227. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARKHILL MFG. CO., Fitchburg, Mass. Filed Dec. 18, 1919.

Glen Roy
32in Zephyrs

Consisting of the words "Glen Roy 32 in Zephyrs," no claim being made to the exclusive use of the phrase "32 in Zephyrs" apart from the mark as shown in the drawing.
Particular description of goods.—Ginghams in the Piece and Cotton Piece Goods.
Claims use since about Nov. 14, 1914.

Ser. No. 126,823. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) ADAM SCHEIDT BEVERAGE COMPANY, Norristown, Pa. Filed Jan. 5, 1920.



The mark consisting of the words "Valley Forge Special" and a picture of General Washington's winter headquarters. Without waiving any common-law right, applicant disclaims for purpose of registration the word "Special" apart from the mark as shown.

Particular description of goods.—A Beverage Made of Malt and Cereals and Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.

Claims use since October, 1919.

Ser. No. 126,890. (CLASS 33. GLASSWARE.) MERRILL-GREER & CHAPMAN, St. Paul, Minn. Filed Jan. 6, 1920.

AMAZON

Particular description of goods.—Glass Jars.

Claims use since Nov. 1, 1918.

Ser. No. 126,897. (CLASS 39. CLOTHING.) COMMERCIAL SHIRT COMPANY, New York, N. Y. Filed Jan. 7, 1920. Under ten-year proviso.

Nofade
Remington

Particular description of goods.—Dress and Negligée Shirts.

Claims use since April, 1892.

Ser. No. 126,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK G. MCCOY, Baltimore, Md. Filed Jan. 8, 1920.

LIBERTY

Particular description of goods.—A Salve for the Treatment of Piles.

Claims use since Nov. 20, 1919.

Ser. No. 126,990. (CLASS 15. OILS AND GREASES.) H. EARL CLACK COMPANY, Havre, Mont. Filed Jan. 10, 1920.

HI-POWER

No claim is made to the words "High Power."

Particular description of goods.—Gasolene.

Claims use since Apr. 1, 1919.

Ser. No. 127,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELI R. PERSHING, Washington, D. C. Filed Jan. 10, 1920.



Particular description of goods.—Candies.

Claims use since Oct. 23, 1919.

Ser. No. 127,037. (CLASS 39. CLOTHING.) COHEN, GOLDMAN & CO., INC., New York, N. Y. Filed Jan. 12, 1920.



Particular description of goods.—Men's and Children's Outer Garments Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, Smoking-Jackets, Automobile-Coats, and Bath-Wraps, and Women's and Children's Outer Garments Consisting of Coats, Bath-Wraps, and Mackinaws.

Claims use since Nov. 18, 1918.

Ser. No. 127,051. (CLASS 11. INKS AND INKING MATERIALS.) EMIL GOODWIRTH, St. Louis, Mo. Filed Jan. 12, 1920.



No claim being made to the exclusive use of the words "Acid Proof Ink."

Particular description of goods.—Writing and Engrossing Ink.

Claims use since Mar. 15, 1919.

Ser. No. 127,072. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ZENSAL COMPANY OF OKLAHOMA CITY, Oklahoma, Okla. Filed Jan. 12, 1920.

Lax-a-Lets
THE LITTLE CANDY GIANTS

No claim being made to the words "The Little Candy Giants" apart from the mark shown.

Particular description of goods.—Laxative Tablets.

Claims use since Nov. 7, 1919.

Ser. No. 127,122. (CLASS 10. FERTILIZERS.) ROY H. HOOVER, Freeport, Ill. Filed Jan. 14, 1920.

PLANTLIFE

Particular description of goods.—Fertilizer Compound.

Claims use since Oct. 13, 1919.

Ser. No. 127,132. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HENRY C. KIRK, Baltimore, Md. Filed Jan. 14, 1920.

CUFENIUM

Particular description of goods.—Base-Metal Alloys.

Claims use since October, 1918.

Ser. No. 127,207. (CLASS 5. ADHESIVES.) ALPHA-LUX COMPANY, INC., New York, N. Y. Filed Jan. 16, 1920.



Particular description of goods.—Liquid and Dry Vegetable Gums and Vegetable Adhesives for Use on Food Products, Tobacco, Paper Goods, and Tin Goods, as Sizing in Textile and Paper Manufacturing Trade.

Claims use since Jan. 1, 1920.

Ser. No. 127,281. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BUCYRUS COMPANY, South Milwaukee, Wis. Filed Jan. 19, 1920.

YZ

Particular description of goods.—Special Steel Castings and Forgings.

Claims use since about Dec. 1, 1904.

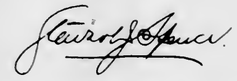
Ser. No. 127,320. (CLASS 15. OILS AND GREASES.) FRANK C. MILLER, Fort Collins, Colo. Filed Jan. 19, 1920.

SHARPSHOOTER

Particular description of goods.—Gasolene in Bulk, Gasolene in Tin Retainers, Lubricating Oils and Greases in Containers, Retainers, and Cans.

Claims use since July 1, 1918.

Ser. No. 127,345. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) STEWART J. SPENCE, Chattanooga, Tenn. Filed Jan. 19, 1920.



The trade-mark is a facsimile of applicant's signature.

Particular description of goods.—Dental Plaster, Being a Specially-Prepared Substitute for Plaster of Paris, for Use by Dentists in the Making of Casts, Impressions, and Investments.

Claims use since Jan. 1, 1910.

Ser. No. 127,360. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HUGO FISCHER, Brooklyn, N. Y. Filed Jan. 20, 1920.



No claim is made for the use of the words "Dye" and "Made in U. S. A.," as shown in said drawing, except as used in conjunction with the other features of the said mark.

Particular description of goods.—Dyed Furs.

Claims use since Oct. 1, 1919.

Ser. No. 127,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & CO., Ottumwa, Iowa. Filed Jan. 20, 1920.



Particular description of goods.—Breakfast-Bacon.

Claims use since Dec. 16, 1919.

Ser. No. 127,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRIS PREPARATIONS, INC., New York, N. Y. Filed Jan. 22, 1920.

Iris

Particular description of goods.—The Following Toilet Preparations, Namely: Creams, Rouges, Lotions, Face-Powders, Perfumes, and Toilet Waters for Beautifying the Skin.
Claims use since July 1, 1918.

Ser. No. 127,517. (CLASS 39. CLOTHING.) MELVILLE SHOE CORPORATION, New York, N. Y. Filed Jan. 23, 1920.

PADDY

Particular description of goods.—Yielding Heels and Heel-Cushions for Boots and Shoes.
Claims use since Jan. 13, 1920.

Ser. No. 127,549. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Jan. 24, 1920.



We hereby disclaim the word "Products" appearing in the mark.
Particular description of goods.—Mops.
Claims use since Nov. 19, 1919.

Ser. No. 127,583. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Jan. 26, 1920.

Midinette

Particular description of goods.—Silk Piece Goods.
Claims use since Jan. 8, 1920.

Ser. No. 127,591. (CLASS 39. CLOTHING.) THE HELLER LEATHER CO., Milwaukee, Wis. Filed Jan. 26, 1920.

Heller
Four-Gant

The word "Heller" being the autograph of Louis B. Heller, the president of the applicant corporation, no claim being made to the words "Tour-Gant" aside from the mark as shown.
Particular description of goods.—Leather Gloves.
Claims use since Jan. 2, 1919.

Ser. No. 127,622. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.

Tiny-tot



Particular description of goods.—Nipples, Infants' Rubber Water-Bottles, Infant-Syringes, Baby-Pacifiers, Rubber Sheeting in Form of Squares, &c., and Ready for Use, Antiseptic Gauze for Medical Use, Absorbent Cotton, Gauze Bandages, and Baby-Feeding Bottles.
Claims use since December, 1919.

Ser. No. 127,623. (CLASS 39. CLOTHING.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.



Tiny-tot

Particular description of goods.—Shoes Made of Leather, Fabric, or Combination of Leather and Fabric.
Claims use since December, 1919.

Ser. No. 127,642. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FULGHUM & COMPANY, Los Angeles, Calif. Filed Jan. 27, 1920.

Vōgveil

Particular description of goods.—Face-Veils and Hair-Nets.
Claims use since Dec. 1, 1919.

Ser. No. 127,690. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. HURLEY, Chicago, Ill. Filed Jan. 28, 1920.

HURLIGARGLE

The trade-mark consists of the word "Hurligargle" in black upon a red background of the design shown in the accompanying drawing.
Particular description of goods.—A Preparation for the Treatment of Sore Throat.
Claims use since Dec. 30, 1919.

Ser. No. 127,707. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOWARD E. YOUNG, Baltimore, Md. Filed Jan. 28, 1920.

YOUNG'S
PAIN EZE

The words "Pain Eze" being disclaimed apart from the mark as shown.
Particular description of goods.—Medicines for Rheumatism, Lumbago, Sore Feet, Corns, Headache, Cramps, Indigestion, and Toothache.
Claims use since Jan. 2, 1920.

Ser. No. 127,738. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA R. PLUMMER, Urbana, Ohio. Filed Jan. 29, 1920.

Fluffoo

Particular description of goods.—Hair-Powder for Dry Shampooing.
Claims use since Nov. 1, 1919.

Ser. No. 127,758. (CLASS 2. RECEPTACLES.) HAMMOND IRON WORKS, Warren, Pa. Filed Jan. 30, 1920.



The lines in the accompanying drawing indicate shading only.
Particular description of goods.—Oil-Tanks.
Claims use since March, 1916.

Ser. No. 127,770. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NOMAR OPTICAL CO., Southbridge, Mass. Filed Jan. 30, 1920.

NOMAR

Particular description of goods.—Optical Goods Comprising Eyeglasses and Spectacles, Ophthalmic Lenses and Mountings Therefor, and Parts Thereof.
Claims use since June 6, 1919.

Ser. No. 127,784. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY BENTON SMITH, Elmwood Place, Ohio. Filed Jan. 30, 1920.

Growsit

Particular description of goods.—Hair-Restorers.
Claims use since June 16, 1919.

Ser. No. 127,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ORIUM COMPANY, St. Louis, Mo. Filed Jan. 31, 1920.

ORIUM

Particular description of goods.—Medicated Salve for Relief of Colds, Coughs, Sore Throat, Whooping-Cough, Headaches, Hay-Fever, Bronchitis, Tonsilitis, Itching Piles, Eczema, Insect-Bites, Burns, &c.
Claims use since Dec. 19, 1919.

Ser. No. 127,831. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PENN CHEMICAL WORKS, Philadelphia, Pa. Filed Jan. 31, 1920.

BANNER

Particular description of goods.—Lye and Chlorinated Lime.

Claims use on lye since about the year 1883 and on chlorinated lime since about the year 1900.

Ser. No. 127,849. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed Feb. 2, 1920.



Particular description of goods.—Hard-Rubber Bowling and Roque Balls.

Claims use since Jan. 30, 1920.

Ser. No. 127,864. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JAMES A. MILLER, Clay Center, Kans. Filed Feb. 2, 1920.



No claim being made to the representation of the eyeglasses apart from the mark shown.

Particular description of goods.—Optical Goods and Furnishings Consisting of Lenses, Frames, Nose-Pieces, and All Optical Mountings, Ophthalmoscopes, Retinoscopes, Ophthalmometers, and All Instruments Used in Fitting Lenses and Making Eye Examinations.

Claims use since Jan. 19, 1920.

Ser. No. 127,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEATTLE & PUGET SOUND PACKING COMPANY, Seattle, Wash. Filed Feb. 2, 1920.



No claim being made to the word "Brand" apart from the trade-mark as shown, the lines within the heart denoting the color red.

Particular description of goods.—Syrup for Table Use.

Claims use since June 15, 1918.

Ser. No. 127,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GLANDULAR RESEARCH LABORATORIES, INC., Cranford, N. J. Filed Feb. 3, 1920.

GlandeX

Particular description of goods.—Medicine for the Treatment of Neurasthenia, Anemia, Premature Old Age, Lack of Vitality, and the Stimulation of Mental, Nervous, or Muscular Activities.

Claims use since Jan. 20, 1920.

Ser. No. 127,929. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RANDALL-MCLOUGHLIN CO., Seattle, Wash. Filed Feb. 3, 1920.

MAG-O-TITE

Particular description of goods.—Insecticides.

Claims use since July 1, 1918.

Ser. No. 127,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VANADIUM CHEMICAL COMPANY, Pittsburgh, Pa. Filed Feb. 3, 1920.

PYORADIUM

Particular description of goods.—Medicinal Preparation for the Treatment of Teeth and Gums.

Claims use since Nov. 7, 1919.

Ser. No. 127,975. (CLASS 39. CLOTHING.) NUWAY MANUFACTURING COMPANY, Winston-Salem, N. C. Filed Feb. 4, 1920.

NUWAY

Particular description of goods.—Men's Negligée, Work, and Dress Shirts.

Claims use since Jan. 10, 1920.

Ser. No. 128,034. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LILLIE WHITE, Los Angeles, Calif. Filed Feb. 5, 1920.



No claim being made to the words "Fortune Teller" apart from the mark shown. The portrait shown is that of the applicant.

Particular description of goods.—Planchette-Boards.

Claims use since the 31st day of December, 1919.

Ser. No. 128,116. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH & NESSLE CO., INC., New York, N. Y., and Eastport, Me. Filed Feb. 7, 1920.

GOVERNOR



The picture is fanciful.

Particular description of goods.—Canned Vegetables, Canned Fruits, Canned Shrimp, and Canned Oysters.

Claims use since July 9, 1919.

Ser. No. 128,124. (CLASS 39. CLOTHING.) WATTS, RITTER & COMPANY, Huntington, W. Va., and New York, N. Y. Filed Feb. 7, 1920.

CRAFTEX

Particular description of goods.—Dress and Negligée Shirts.

Claims use since Oct. 9, 1919.

Ser. No. 128,163. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ONEIDA MOTOR TRUCK CO., Green Bay, Wis. Filed Feb. 9, 1920.

UNCOMMON CARRIERS

The word "Carriers" being disclaimed apart from the mark as shown.

Particular description of goods.—Motor-Vehicles—Namely, Gasolene and Electrically-Driven Motor-Trucks.

Claims use since Dec. 1, 1918.

Ser. No. 128,210. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEON LE ROY REED, Marathon, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

JERSEY BALM

Particular description of goods.—A Preparation for Catarrh, Colds, Croup, Sore Throat, Neuralgia, Piles, Burns, Wounds, Sores, and Skin Diseases.

Claims use since 1870.

Ser. No. 128,217. (CLASS 2. RECEPTACLES.) NORTHERN WOODENWARE COMPANY, Island Falls, Me. Filed Feb. 10, 1920.

Kleenkut

Particular description of goods.—Dishes Made from Veneer Hard Wood, Beech, Birch, Maple, or other Wood, Used as Containers for Merchandise by Grocers and Allied Trades.

Claims use since April, 1919.

Ser. No. 128,224. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Shopping-Bags, Chatelaine-Bags, Suitcases, Traveling-Bags, Vanity-Bags, Portfolios, Purses and Pocketbooks, Riding Crops and Whips, Stirrups.

Claims use since 1868.

Ser. No. 128,251. (CLASS 37. PAPER AND STATIONERY.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Writing-Paper, Mailing-Envelops, Partly Printed or Engraved Dance-Orders, Partly Printed or Engraved Diplomas, Memorandum-Books, Guest-Books, Log-Books, Writing-Pads, Blank Books, Inkstands, Metallic Pen-Points, Penholders, Pen-Stands, Pen-Racks, Desk Sets, Bookmarks, Letter-Openers, Paper-Weights, and Seals for Use in Making Impressions in Wax or Paper.

Claims use since 1868.

Ser. No. 128,341. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE BRAIDED FABRIC CO., Providence, R. I. Filed Feb. 13, 1920.



No claim being made to the words "Lisle Lastic" except in connection with the mark shown. The figure of the drawing is lined to indicate that it is blue in color.

Particular description of goods.—Elastic and Non-Elastic Braids.

Claims use since Jan. 30, 1920.

Ser. No. 128,368. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NATIONAL FRUIT FLAVOR CO., New Orleans, La. Filed Feb. 13, 1920.

SQUEEZE



Particular description of goods.—Flavoring Extracts for Non-Alcoholic Beverages Sold as Soft Drinks.
Claims use since Jan. 1, 1917.

Ser. No. 128,427. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE EFANBEE COMPANY, Methuen, Mass. Filed Feb. 16, 1920.

bibar

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks.
Claims use since Jan. 19, 1920.

Ser. No. 128,437. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BENJAMIN M. GOLDBERG, Brooklyn, N. Y. Filed Feb. 16, 1920.

RASCO

Said trade-mark consists of the word "Rasco," around which is drawn an oblong outline, with rounded corners, the whole mark being shown in red, with a white background.
Particular description of goods.—A Plastic Composition for the Manufacture of Models for Artificial Teeth.
Claims use since Jan. 2, 1920.

Ser. No. 128,450. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE MELODIA COMPANY, Troy, Ohio. Filed Feb. 16, 1920.

MELODIA

Particular description of goods.—Phonographs.
Claims use since the fall of 1915.

Ser. No. 128,474. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE STEAM CORPORATION, Chicago, Ill. Filed Feb. 16, 1920.

Nokol

Particular description of goods.—Liquid-Fuel Burners or Heaters.
Claims use since Oct. 1, 1919.

Ser. No. 128,519. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERRONE BROTHERS, Pittston, Pa. Filed Feb. 17, 1920.

WHITE LILLY



Particular description of goods.—Macaroni.
Claims use since Nov. 1, 1919.

Ser. No. 128,552. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE HORTON MANUFACTURING CO., Bristol, Conn. Filed Feb. 18, 1920.

"Bristol"

Particular description of goods.—Fishing-Lines.
Claims use since Jan. 21, 1920.

Ser. No. 128,553. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HISPANIC TEXTILE COMPANY, INC., New York, N. Y. Filed Feb. 18, 1920.



Particular description of goods.—Used on Bleached Sheetings, Cotton Suitings, Bleached Ducks and Drills, Lawns, Voiles, and Cotton Prints in the Piece.
Claims use since Apr. 10, 1919.

Ser. No. 128,596. (CLASS 39. CLOTHING.) CROSSINGHAM KNITTING MILLS, Philadelphia, Pa. Filed Feb. 19, 1920.



No claim is made to exclusive use of the words "Dr. Spencer's Knitted Sanitary Underwear, Trade Mark" apart from the mark shown.
Particular description of goods.—Knitted Underwear in One and Two Piece Suits for Men, Women, and Children.
Claims use since Dec. 22, 1910.

Ser. No. 128,607. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCKENZIE MILLING COMPANY, Quincy, Mich. Filed Feb. 19, 1920.



Particular description of goods.—Wheat-Flour, Pure Buckwheat-Flour, Cornmeal, Graham Flour, Self-Raising Buckwheat-Flour, and Self-Raising Whole-Wheat Pancake-Flour.
Claims use since about July 1, 1899.

Ser. No. 128,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE D. L. CLARK COMPANY, Pittsburgh, Pa. Filed Feb. 20, 1920.



No claim being made to the exclusive use of the words "Confections of Taste" except with the mark as shown.
Particular description of goods.—Marshmallows, Cream Candies, Pan Confections, Jelly and Gum Candies, Fudge, Taffies, Caramels, Hard Candies, Chocolate, Chocolate-Coated Confections, Popcorn and Nut Candies, and Chewing-Gum.
Claims use since Aug. 15, 1919.

Ser. No. 128,670. (CLASS 39. CLOTHING.) THE DECO CO., New York, N. Y. Filed Feb. 20, 1920.

DECO

Particular description of goods.—Men's Undershirts and Drawers, Hats and Caps for Men and Boys, Ladies' Underwear in One, Two, and Three Pieces, Ladies' Waists, Puttees, and Neckties.
Claims use since Sept. 1, 1910.

Ser. No. 128,734. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. & B. MANUFACTURING COMPANY, Pittsfield, Mass. Filed Feb. 21, 1920.

J&B

Particular description of goods.—Spark-Timers and Electric Coils.
Claims use since some time in June, 1919.

Ser. No. 128,781. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KEEN KOLA MFG. CO., Dallas, Tex. Filed Feb. 24, 1920.

INNOVATION

Particular description of goods.—Maltless Beverage to be Sold as a Soft Drink.
Claims use since Aug. 1, 1918.

Ser. No. 128,809. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) U. S. REDUCTION & ATOMIZING CO., Herrin, Ill., and St. Louis, Mo. Filed Feb. 24, 1920.



No exclusive claim is made to the words "Coal Products."
Particular description of goods.—Coal Products—Namely, Foundry-Facings and Atomized or Pulverized Coal.
Claims use since Dec. 20, 1919.

Ser. No. 128,854. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NICHTHAUSER & LEVY, Brooklyn, N. Y. Filed Feb. 24, 1920.

VICTORY

Consisting of the word "Victory."
Particular description of goods.—Washboilers.
Claims use since about Feb. 10, 1918.

Ser. No. 128,879. (CLASS 12. CONSTRUCTION MATERIALS.) CHARLES CATLETT, Staunton, Va. Filed Feb. 25, 1920.

CAL

Particular description of goods.—Preparations Useful in Modifying Cement, Lime, and Concrete Mixtures to Improve Their Hardening and other Properties.
Claims use since about July 15, 1919.

Ser. No. 128,899. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERFECTION STORAGE BATTERY CO., Chicago, Ill. Filed Feb. 25, 1920.

Perfection

Particular description of goods.—Electric Storage Batteries.
Claims use since on or about Jan. 15, 1918.

Ser. No. 128,900. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERFECTION STORAGE BATTERY CO., Chicago, Ill. Filed Feb. 25, 1920.

Perfection

Particular description of goods.—Unitary Electric-Light Plants for Isolated or Farm Use.
Claims use since on or about Feb. 1, 1916.

Ser. No. 128,915. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) BARNETT FOUNDRY & MACHINE CO., Irvington, N. J. Filed Feb. 26, 1920.

CAPITOL

Particular description of goods.—Ironing-Machines.
Claims use since January, 1920.

Ser. No. 128,927. (CLASS 39. CLOTHING.) GERTRUDE B. HOVEY, Springfield, Mass. Filed Feb. 26, 1920.



No claim is made for color, the lining of the drawing being for shading purposes only. No claim is made to the apron apart from the mark shown on the drawing.
Particular description of goods.—Aprons for Women's Dress.
Claims use since about Jan. 1, 1918.

Ser. No. 128,978. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. NEHRING & SONS COMPANY, Chicago, Ill. Filed Feb. 27, 1920.

KLINGZON

The lining shown on the drawing representing shading on the specimens and not color.
Particular description of goods.—Varnish, Flat Wall-Paint, Floor-Paint, and Ready-Mixed Paint.
Claims use since Jan. 28, 1917.

Ser. No. 128,993. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION, Baltimore and Cumberland, Md. Filed Feb. 28, 1920.

U-NO-ME

Particular description of goods.—Flannel Shirts for Outer Wear.
Claims use since Jan. 1, 1916.

Ser. No. 129,008. (CLASS 39. CLOTHING.) L. & S. FRIEDMAN, New York, N. Y. Filed Feb. 28, 1920.

EQUAL TO CUSTOM MADE
Famous BRAND

No claim is made to the exclusive use of the words "Equal to Custom Made, Famous, Brand" apart from the other features of the mark.
Particular description of goods.—Coats, Vests, Trousers, and Overcoats.
Claims use since Apr. 1, 1919.

Ser. No. 129,044. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CANTON FURNITURE MANUFACTURING CO., Canton, Ohio. Filed Mar. 1, 1920. Under ten-year proviso.

DANNER

Particular description of goods.—Revolving and Sectional Bookcases, House-Desks, and Medicine-Cabinets.
Claims use since June, 1873.

Ser. No. 129,047. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHROBALTIC TOOL COMPANY, Chicago, Ill. Filed Mar. 1, 1920.

CHROBALTIC

Particular description of goods.—Templets and Try-Gages.
Claims use since June 15, 1919.

Ser. No. 129,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FINLEY ACKER CO., Philadelphia, Pa. Filed Mar. 1, 1920. Under ten-year proviso.

SWEET BRIAR

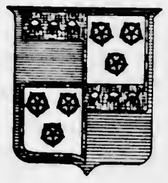
Particular description of goods.—Smoked, Cured, and Canned Meats; Whole Dried Beef, Ham, and Ox-Tongue and Strips of Bacon and Bacon in Jars; Canned Fruits and Vegetables, Loose Fruits and Vegetables, Boxed Plain Figs and Dates and Stuffed Figs and Dates, Mince-Meat, Prunes in Boxes and Jars, Plum-Pudding, Butter, and Relishes.
Claims use since about Jan. 1, 1892.

Ser. No. 129,054. (CLASS 39. CLOTHING.) COMFURTA HOSIERY CO., New York, N. Y. Filed Mar. 1, 1920.

INTERNIT

Particular description of goods.—Hosiery—Namely, Men's, Women's and Children's; Underwear—Namely, Men's Women's, and Children's.
Claims use since Dec. 1, 1919.

Ser. No. 129,055. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GRAHAM BROTHERS, Evansville, Ind. Filed Mar. 1, 1920.



The portions of the shield shaded for color indicating blue and gold.
Particular description of goods.—Motor-Trucks.
Claims use since Jan. 2, 1920.

Ser. No. 129,074. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES E. MOODY & CO. INC., Boston, Mass. Filed Mar. 1, 1920.

FEARLESS

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since July 1, 1902.

Ser. No. 129,189. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed Mar. 3, 1920.

Sunny Brook

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages and Syrups for Making the Same.
Claims use since Feb. 1, 1920.

Ser. No. 129,250. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SANFORD MILLS, Sanford, Me. Filed Mar. 4, 1920.

Velnap

Particular description of goods.—Woven Textile Rugs.
Claims use since Feb. 20, 1920.

Ser. No. 129,307. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTER C. CRANDALL, Rensselaer, N. Y. Filed Mar. 6, 1920.

Sanitex

Particular description of goods.—Carpet and Rugs Made of Selvages from Cotton Fabrics.
Claims use since Dec. 1, 1919.

Ser. No. 129,323. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAUG & CO., INC., New York, N. Y. Filed Mar. 6, 1920.

HIGH POINT

Particular description of goods.—Hydrogenated Vegetable Oil.
Claims use since about Jan. 1, 1917.

Ser. No. 129,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MIDLAND PACKING COMPANY, Sioux City, Iowa. Filed Mar. 8, 1920.

NUT SWEET

Particular description of goods.—Bacon Ham, and Sausage.
Claims use since Jan. 12, 1920.

Ser. No. 129,449. (CLASS 39. CLOTHING.) CRADDOCK-TERRY COMPANY, Lynchburg, Va. Filed Mar. 9, 1920.

BILLYKID SHOES

No claim is made to the word "Shoes" nor to the words "Wears Billiken Shoes" apart from the mark shown in the accompanying drawing.

Particular description of goods.—Children's Shoes Composed Wholly of Leather, Fabric, or a Combination of Leather and Fabric.

Claims use since Jan. 1, 1913.

Ser. No. 129,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISAAC SHAW, Le Roy, Ill. Filed Mar. 9, 1920.

THREE KING



Particular description of goods.—A Cereal Breakfast Food.

Claims use since July 19, 1919.

Ser. No. 129,494. (CLASS 39. CLOTHING.) CHARLES FALL, Hoboken, N. J. Filed Mar. 10, 1920.



No claim being made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Ladies' and Infants' Fine-Gage Seamless Hosiery.

Claims use since Jan. 15, 1920.

Ser. No. 129,519. ((CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) U. S. BREWERS & BOTTLERS SUPPLY EXPORT CO. INC., New York, N. Y. Filed Mar. 10, 1920.

Korkeen

Particular description of goods.—Bottle-Caps.

Claims use since the 16th day of January, 1920.

Ser. No. 129,527. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN IMPORTING CO., New York, N. Y. Filed Mar. 11, 1920.



Particular description of goods.—Ticking.

Claims use since Sept. 1, 1916.

Ser. No. 129,528. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN IMPORTING CO., New York, N. Y. Filed Mar. 11, 1920.

9⅛

Particular description of goods.—Ticking.

Claims use since the year 1911.

Ser. No. 129,529. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN IMPORTING CO., New York, N. Y. Filed Mar. 11, 1920.

90⅛

Particular description of goods.—Ticking.

Claims use since the year 1911.

Ser. No. 129,575. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE STANDARD OPTICAL COMPANY, Geneva, N. Y. Filed Mar. 11, 1920.

Celoglas

Particular description of goods.—Optical Lenses and Goggles.

Claims use since Jan. 1, 1919.

Ser. No. 129,590. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FARNSWORTH, HOYT CO., Boston, Mass. Filed Mar. 12, 1920.



Said trade-mark comprising parallel red lines spaced apart about two and one-half inches throughout the goods, no claim being made to the representation of a portion of the goods shown in the drawing except in association with the red lines mentioned.

Particular description of goods.—Cotton Twill Shoe-Linings in the Piece.

Claims use since Feb. 13, 1914.

Ser. No. 129,597. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE C. LEEDOM, Oil City, Pa. Filed Mar. 12, 1920.

ARGO

Particular description of goods.—Evaporated Milk.

Claims use since Sept. 1, 1919.

Ser. No. 129,607. (CLASS 39. CLOTHING.) RITE MFG. CO., Cincinnati, Ohio. Filed Mar. 12, 1920.

"UNION JACK"

Particular description of goods.—Middy-Blouses and Middy-Dresses.

Claims use since Jan. 23, 1920.

Ser. No. 129,629. (CLASS 39. CLOTHING.) THE FUTURIST COMPANY, Chicago, Ill. Filed Mar. 13, 1920.

FUTURIST

Particular description of goods.—Men's, Women's, and Children's Hosiery.

Claims use since Feb. 6, 1920.

Ser. No. 129,680. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. and J. STEFFEN, Dayton, Ohio. Filed Mar. 13, 1920.

PURPLE PATCH

Particular description of goods.—Assorted Candies. Such as Taffies, Chocolate Creams, Marshmallows, and Nougats.

Claims use since Jan. 1, 1919.

Ser. No. 129,702. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARD THOMAS DAVIES, Placentia, Calif. Filed Mar. 15, 1920.

FRIAR



Particular description of goods.—Fresh Oranges.

Claims use since May 1, 1919.

Ser. No. 129,709. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed Mar. 15, 1920.

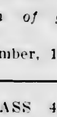
"Pat-Biddy"

Particular description of goods.—Dolls.

Claims use since Mar. 1, 1920.

Ser. No. 129,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOOD LUCK FOOD CO., INC., Rochester, N. Y. Filed Mar. 15, 1920.

GOOD LUCK



Particular description of goods.—Pie-Fillings, Puddings, and Jellies.

Claims use since November, 1910.

Ser. No. 129,740. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE PH. ZANG BREWING COMPANY, Denver, Colo. Filed Mar. 15, 1920.

Creatone

Particular description of goods.—A Non-Intoxicating Maltless Cereal Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.

Claims use since Feb. 21, 1920.

Ser. No. 129,744. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PLUMMER AND EDWINS, Seattle, Wash. Filed Mar. 15, 1920.

Indian Summer BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Fresh Apples.

Claims use since June 20, 1919.

Ser. No. 129,755. (CLASS 39. CLOTHING.) TRAU AND LOEVNER, Pittsburgh, Pa., and New York, N. Y. Filed Mar. 15, 1920.



No claim being made to the exclusive use of the word "Cravats" apart from the mark as shown in the drawing.

Particular description of goods.—Neckties and Cravats.

Claims use since January, 1917.

Ser. No. 129,766. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARRENTON CLAM CO., Warrenton, Oreg. Filed Mar. 15, 1920.

CONSUMER BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—canned Fish—Namely, Canned Salmon and Canned Clams; Canned Fruit—Namely, Berries; Canned Vegetables—Namely, Canned String-Beans.

Claims use since Jan. 26, 1920.

Ser. No. 129,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. BELL CONFECTIONERY COMPANY, Cambridge, Mass. Filed Mar. 16, 1920.

Palmetto

Particular description of goods.—Candy.

Claims use since July, 1905.

Ser. No. 129,785. (CLASS 39. CLOTHING.) KAHN DREYFUS & CO. INC., New York, N. Y. Filed Mar. 16, 1920.



Will Ware

Particular description of goods.—Outer Suits for Men and Boys.

Claims use since Apr. 1, 1919.

Ser. No. 129,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES WELK RILEY, Los Angeles, Calif. Filed Mar. 16, 1920.



The portrait shown is that of the applicant.

Particular description of goods.—Candles.

Claims use since May 15, 1919.

Ser. No. 129,823. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL F. BEICH CO., Bloomington, Ill. Filed Mar. 17, 1920.

Merry-go-rounds

Particular description of goods.—Candy.

Claims use since Feb. 2, 1920.

Ser. No. 129,831. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DUTY MOTOR CO., Greenville, Ill. Filed Mar. 17, 1920.

DUTY

Particular description of goods.—Automobiles.

Claims use since Jan. 1, 1920.

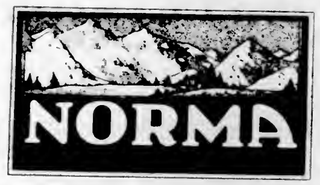
Ser. No. 129,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORMA CHOCOLATE COMPANY, INC., Brooklyn, N. Y. Filed Mar. 17, 1920.



Particular description of goods.—Cocoa.

Claims use since Mar. 1, 1920.

Ser. No. 129,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORMA CHOCOLATE COMPANY, INC., Brooklyn, N. Y. Filed Mar. 17, 1920.



Particular description of goods.—Chocolate.

Claims use since March, 1920.

Ser. No. 129,891. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HUDFORD COMPANY OF CHICAGO, Chicago, Ill. Filed Mar. 18, 1920.

"E Z E"

Particular description of goods.—Motor-trucks, Conversion Units for Making Motor-Trucks from Automobiles.

Claims use since July 15, 1919.

Ser. No. 129,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. ROMEO & CO. INC., New York, N. Y. Filed Mar. 18, 1920.

GIULIETTA

Particular description of goods.—Canned Tuna Fish, Canned Tomatoes, Olive-Oil.

Claims use since July 1, 1919.

Ser. No. 129,972. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE EUCLID FILM COMPANY, Cleveland, Ohio. Filed Mar. 20, 1920.

"Ful-O-Fun"

Particular description of goods.—Motion-Picture Films and Still Pictures.

Claims use since Feb. 19, 1920.

Ser. No. 129,988. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RELIANCE MOTOR TRUCK COMPANY, Appleton, Wis. Filed Mar. 20, 1920.

Reliance

Particular description of goods.—Motor-Trucks.

Claims use since Dec. 15, 1911.

Ser. No. 129,993. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WEST END BREWING CO., Utica, N. Y. Filed Mar. 20, 1920.

Orange Dreem

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Jan. 1, 1919.

Ser. No. 129,994. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WEST END BREWING CO., Utica, N. Y. Filed Mar. 20, 1920.

CONCO-GRAPETTE

Particular description of goods.—Non-Alcoholic Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the same.

Claims use since Aug. 1, 1919.

Ser. No. 129,995. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WEST END BREWING CO., Utica, N. Y. Filed Mar. 20, 1920.

LEM-JU

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Aug. 1, 1919.

Ser. No. 130,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED WOLFERMAN CO., Kansas City, Mo. Filed Mar. 20, 1920.

Tiffin Room

"Tiffin Room."

Particular description of goods.—Coffee.

Claims use since 1908.

Ser. No. 130,012. (CLASS 39. CLOTHING.) THE BOWMAN OVERALL CO., Knoxville, Tenn. Filed Mar. 22, 1920.



Particular description of goods.—Overalls, Overall-Jumpers, Work-Pants, and Work-Shirts.

Claims use since Jan. 1, 1908.

Ser. No. 130,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BECH, VAN SICLEN & CO., INC. San Francisco, Calif. Filed Mar. 22, 1920.



Particular description of goods.—Wheat-Flour.

Claims use since Mar. 1, 1920.

Ser. No. 130,027. (CLASS 39. CLOTHING.) FELDMAN, EMANUEL & COMPANY, Philadelphia, Pa. Filed Mar. 22, 1920.



Particular description of goods.—Men's Suits and Overcoats.

Claims use since Mar. 1, 1920.

Ser. No. 130,033. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES L. HEFFELMAN, Indianapolis, Ind. Filed Mar. 22, 1920.



Hoosier Boy

Particular description of goods.—Candies of the Type Commonly Known as Suckers.
Claims use since Feb. 24, 1920.

Ser. No. 130,042. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG COMPANY, Green Bay, Wis. Filed Mar. 22, 1920.

FASHION

Particular description of goods.—Toilet-Paper, Paper Napkins, Paper Towels, and Tissue-Papers.
Claims use since Aug. 29, 1919.

Ser. No. 130,043. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG CO., Green Bay, Wis. Filed Mar. 22, 1920.

AMERICAN BOY

Particular description of goods.—Toilet-Paper, Paper Towels, Tissue-Paper, and Manila Wrapping-Paper, Also Paper Napkins.
Claims use since Nov. 15, 1905, on toilet-paper only, on paper towels, tissue-paper, Manila wrapping-paper, and paper napkins since Feb. 25, 1918.

Ser. No. 130,044. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG CO., Green Bay, Wis. Filed Mar. 22, 1920.

American Girl

Particular description of goods.—Toilet-Paper, Paper Towels, Tissue-Paper, and Manila Wrapping-Paper, Also Paper Napkins.
Claims use since Nov. 15, 1905, on toilet-paper only, on paper towels, tissue-paper, Manila wrapping-paper, and paper napkins since Feb. 25, 1918.

Ser. No. 130,062. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE STEMCO ENGINEERING COMPANY, Dayton, Ohio. Filed Mar. 22, 1920.

Ole Visible

No claim is made for the word "Visible" apart from the mark as shown.
Particular description of goods.—Float-Gages, Fluid-gages, and Ullage-Gages.
Claims use since June 1, 1916.

Ser. No. 130,067. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN JOSE CANNING CO., San Jose, Calif. Filed Mar. 22, 1920.

REDPACK BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since July 1, 1919.

Ser. No. 130,074. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) W. JEROME WITHERS, San Francisco, Calif. Filed Mar. 22, 1920.

IL SOLE

Particular description of goods.—Grape-Juice.
Claims use since Jan. 12, 1920.

Ser. No. 130,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY COMPANY, Minneapolis, Minn. Filed Mar. 22, 1920.

SONNY SOUTH



Particular description of goods.—Wheat-Flour.
Claims use since July 25, 1919.

Ser. No. 130,124. (CLASS 39. CLOTHING.) H. OSTROWSKY CO., Chicago, Ill. Filed Mar. 24, 1920.

"HoscO"

Particular description of goods.—Men's, Women's, and Children's Underwear Made of Textile Fabrics in One and Two Piece Garments, Men's and Boys' Work-Shirts, Men's and Boys' Flannel Shirts, Men's and Boys' Dress-Shirts; Cotton, Wool, and Flannel Boys' Blouses; Men's, Youths', and Boys' Overalls and Jackets; Men's, Youths', and Boys' Unionalls; Boys Wash-Suits, Misses' and Children's Dresses, Children's Rompers, Children's Play-Suits, and Men's, Youths', and Boys' Pants.
Claims use since Feb. 6, 1920.

Ser. No. 130,134. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GEORGE FROST COMPANY, Boston, Mass. Filed Mar. 24, 1920.

NattyPad

Particular description of goods.—Garters.
Claims use since Aug. 15, 1919.

Ser. No. 130,178. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Mar. 25, 1920.

Crêpe Louvette

No exclusive right is claimed to the word "Crepe" apart from the word "Louvette."
Particular description of goods.—Cotton Piece and Cotton Dress Goods.
Claims use since Jan. 26, 1920.

Ser. No. 130,182. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARL D. SWENDSON, St. Paul, Minn. Filed Mar. 25, 1920.

The Simplion

Particular description of goods.—Talking-Machines.
Claims use since Dec. 10, 1919.

Ser. No. 130,207. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHELSEA ENGINEERING SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1920.



Particular description of goods.—Asbestos, Calking-Cotton, Chamois, Fire-Clay, Hemp; Graphite, (Raw,) Leather, (Piece;) Oakum, Sponges, and Waste Cotton.
Claims use since about October, 1918.

Ser. No. 130,221. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Mar. 26, 1920.

DIAMOND

Particular description of goods.—Plows and Parts Thereof.
Claims use since 1897.

Ser. No. 130,231. (CLASS 39. CLOTHING.) THE MARHOF CO., INC., Norfolk, Va. Filed Mar. 26, 1920.

THE MARHOF INC. CO.

Particular description of goods.—Ladies' and Misses' Middy-Suits.
Claims use since Jan. 1, 1917.

Ser. No. 130,240. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. ROBINSON COHEN & BRO., New York, N. Y. Filed Mar 26, 1920.

GOLDEN GLASS

No claim being made to the exclusive use of the word "Glass" apart from the mark as shown in the drawing.
Particular description of goods.—Ophthalmic Lenses.
Claims use since Jan. 26, 1920.

Ser. No. 130,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FINLEY ACKER CO., Philadelphia, Pa. Filed Mar. 27, 1920. Under ten-year proviso.



Particular description of goods.—Olives and Olive-Oil.
Claims use since about January, 1891.

Ser. No. 130,307. (CLASS 39. CLOTHING.) WORCESTER FELT GOODS COMPANY, Worcester, Mass. Filed Mar. 27, 1920.



Particular description of goods.—Slippers.
Claims use since Jan. 1, 1919.

Ser. No. 130,324. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ESSEX RUBBER COMPANY, Trenton, N. J. Filed Mar. 29, 1920.

ERCO

Particular description of goods.—Cycle-Handle-Bar Grips.
Claims use since Nov. 1, 1919.

Ser. No. 130,326. (CLASS 12. CONSTRUCTION MATERIALS.) W. R. GRACE & CO., New York, N. Y., and San Francisco, Calif. Filed Mar. 29, 1920.

VENCEDOR

Particular description of goods.—Portland Cement.
Claims use since the 15th day of March, 1920.

Ser. No. 130,350. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILKIN & ADLER, New York, N. Y. Filed Mar. 29, 1920.

GOLFLEX

Consisting of the word "Golflex."
Particular description of goods.—Jersey Knit Cloth in the Piece.
Claims use since Mar. 19, 1920.

Ser. No. 130,390. (CLASS 39. CLOTHING.) KATHLEEN M. POLHAMUS, Los Angeles, Calif. Filed Mar. 30, 1920.

"MOTHER GOOSE"

Particular description of goods.—Children's Hats and Caps.
Claims use since Jan. 2, 1918.

Ser. No. 130,399. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WALL & OCHS, INCORPORATED, Philadelphia, Pa. Filed Mar. 30, 1920.



No claim being made to the words "Opticians, Chestnut St., Phila." apart from the mark shown in the drawing.
Particular description of goods.—Spectacles, Eyeglasses, Eyeglass-Mountings, Ophthalmic Lenses, Thermometers, Barometers, Field-Glasses, and Opera-Glasses.
Claims use since the month of September, 1911.

Ser. No. 130,401. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WALL & OCHS, INCORPORATED, Philadelphia, Pa. Filed Mar. 30, 1920.



The lines extending across the numerals of the numbers "1716" indicate shading and are not intended to represent color.
Particular description of goods.—Spectacles, Eyeglasses, Eyeglass-Mountings, Ophthalmic Lenses, Thermometers, Barometers, Field-Glasses, and Opera-Glasses.
Claims use since the month of September, 1911.

Ser. No. 130,466. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. DAVIS & SONS TEXTILE CO. INC., New York, N. Y. Filed Apr. 1, 1920.



Particular description of goods.—Garment-Linings in the Piece, of Cotton, Mohair, Silk, Venetian, Serge, and Alpaca.
Claims use since Jan. 1, 1920.

Ser. No. 130,542. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARYLAND BAKING CO., Baltimore, Md. Filed Apr. 2, 1920.

MABCO

Particular description of goods.—Cake Cone.
Claims use since November, 1919.

Ser. No. 130,551. (CLASS 27. HOROLOGICAL INSTRUMENTS.) A. & J. PLAUT, Cincinnati, Ohio. Filed Apr. 2, 1920.

Audrey

Particular description of goods.—Watches.
Claims use since June 20, 1919.

Ser. No. 130,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS MILK CORPORATION, Pulaski, N. Y. Filed Apr. 2, 1920.



Particular description of goods.—Condensed Milk.
Claims use since Jan. 1, 1919.

Ser. No. 130,565. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ARCHER RUBBER CO., Milford, Mass. Filed Apr. 3, 1920.



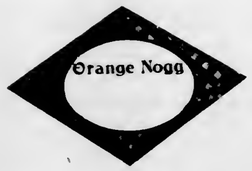
The lines on the drawing indicate shading only.
Particular description of goods.—Rubber Sheeting and Rubber Blankets.
Claims use since Feb. 1, 1914.

Ser. No. 130,566. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ARCHER RUBBER CO., Milford, Mass. Filed Apr. 3, 1920.



The lines on the drawing indicate shading only.
Particular description of goods.—Rubber Sheeting and Rubber Blankets.
Claims use since Feb. 1, 1914.

Ser. No. 130,607. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MONARCH MANUFACTURING COMPANY, Atlanta, Ga. Filed Apr. 3, 1920.



Particular description of goods.—A Non-Alcoholic Non-Intoxicating Maltless Non-Cereal Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Mar. 1, 1920.

Ser. No. 130,649. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

FARANDOLE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Dec. 5, 1919.

Ser. No. 130,650. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

COMSAYBO

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Dec. 5, 1919.

Ser. No. 130,651. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

FAYRISH

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Dec. 5, 1919.

Ser. No. 130,653. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

TOURBILLON

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Dec. 5, 1919.

Ser. No. 130,654. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 5, 1920.

COPURCHIC

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Dec. 5, 1919.

Ser. No. 130,672. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN D. HALL, Cincinnati, Ohio. Filed Apr. 5, 1920.

Realo

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Mar. 1, 1909.

Ser. No. 130,737. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BROS. CO., INC., Buffalo, N. Y. Filed Apr. 6, 1920.

GOODWILL

Particular description of goods.—Bread.
Claims use since Mar. 25, 1920.

Ser. No. 130,739. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN IRON PRODUCTS COMPANY, INC., New York, N. Y. Filed Apr. 7, 1920.

AMIRON

Consisting of the word "Amiron."
Particular description of goods.—Steel Beams and Channels.
Claims use since Jan. 1, 1919.

Ser. No. 130,745. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 7, 1920.

Panaura

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since the 20th day of January, 1920.

Ser. No. 130,746. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 7, 1920.

Duxkin

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since the 31st day of January, 1920.

Ser. No. 130,756. (CLASS 37. PAPER AND STATIONERY.) EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed Apr. 7, 1920.

MADE IN BERKSHIRE
REG. U. S. PAT. OFF.

No claim being made to the words "Made in Berkshire" except in association with the mark as shown nor to the abbreviations "Reg. U. S. Pat. Off."
Particular description of goods.—Writing-Paper and Mailing-Envelops.
Claims use since Sept. 1, 1895.

Ser. No. 130,758. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) GENERAL RAILWAY SIGNAL COMPANY, Rochester, N. Y. Filed Filed Apr. 7, 1920.

GRS

Particular description of goods.—Electrically-Operated Clothes-Washing Machines and Wringers.
Claims use since Feb. 25, 1920.

Ser. No. 130,765. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Apr. 7, 1920.

ROSHANARA

Particular description of goods.—Crape in the Piece.
Claims use since Dec. 29, 1917.

Ser. No. 130,810. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DRYFOOS-TIEDEMANN CO., INC., New York, N. Y. Filed Apr. 8, 1920.

CAPOTA

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 25, 1920.

Ser. No. 130,830. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. W. GODDARD & SONS, INCORPORATED, New York, N. Y. Filed Apr. 8, 1920.

ROSE PETAL

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 26, 1920.

Ser. No. 130,856. (CLASS 11. INKS AND INKING MATERIALS.) V. & L. CHEMICAL CO. INC., Brooklyn, N. Y. Filed Apr. 8, 1920.

KEYSTONE

Particular description of goods.—Writing-Ink.
Claims use since about Sept. 1, 1919.

Ser. No. 130,857. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Apr. 8, 1920.

101

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 130,858. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Apr. 8, 1920.

121

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 130,859. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Apr. 8, 1920.

128

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 130,860. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Apr. 8, 1920.

143

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 130,861. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Apr. 8, 1920.

215

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 130,862. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Apr. 8, 1920.

301

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 130,888. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE CARPET CO., New York, N. Y. Filed Apr. 9, 1920.

LAUREL

Consisting of the word "Laurel."
Particular description of goods.—Rugs Made of Wool and Cotton.
Claims use since about March, 1919.

Ser. No. 130,895. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa. Filed Apr. 9, 1920.

HAR-MAC

Particular description of goods.—Knives, Forks, and Spoons, (Silver-Plated.)
Claims use since Jan. 1, 1909.

Ser. No. 130,915. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTALIS & CO., LTD., Buenos Aires, Argentina, and New York, N. Y. Filed Apr. 9, 1920.

PAMPA

Particular description of goods.—Wheat-Flour.
Claims use since about Jan. 25, 1920.

Ser. No. 130,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTALIS & CO., LTD., Buenos Aires, Argentina, and New York, N. Y. Filed Apr. 9, 1920.

SILVER RIVER

Particular description of goods.—Wheat-Flour.
Claims use since about Jan. 1, 1920.

Ser. No. 130,935. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED BAKING CO., Louisville, Ky. Filed Apr. 9, 1920.

SUNRIZE
BREAD

In the drawing the representation of the sun is lined for red, indicating a red coloration. No claim is made to the use of the word "Bread" apart from the mark shown on the drawing.

Particular description of goods.—Bread.
Claims use since Mar. 22, 1920.

Ser. No. 130,972. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Apr. 10, 1920.

CHINCHILLA

Particular description of goods.—Satin in the Piece.
Claims use since Mar. 8, 1918.

Ser. No. 131,028. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALBERT LOB, New York, N. Y. Filed Apr. 12, 1920.



No claim is made to any of the language appearing on the drawing, except the word "Sphinx," apart from the other features of the mark.

Particular description of goods.—Dry Powders for Cleaning and Restoring Fabrics and for Removing Tarnish from Metals.
Claims use since Apr. 7, 1920.

Ser. No. 131,172. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. P. HAYTER, Greenville, Tex. Filed Apr. 15, 1920.

CLEOPATRA

Particular description of goods.—Soap.
Claims use since Aug. 1, 1918.

Ser. No. 131,180. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CHAS. A. LICHTENSTEIN, New York, N. Y. Filed Apr. 15, 1920.

NORMA

Particular description of goods.—Pearls.
Claims use since Sept. 17, 1919.

Ser. No. 131,192. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) SARGOY BROTHERS, Brooklyn, N. Y. Filed Apr. 15, 1920.

BOILRITE

Particular description of goods.—Washboiler.
Claims use since the early part of April, 1920.

Ser. No. 131,241. (CLASS 37. PAPER AND STATIONERY.) LEO WALLENSTEIN, Brooklyn, N. Y. Filed Apr. 16, 1920.

Walle
VIZIBEL
REVOLVO

Particular description of goods.—Stencils.
Claims use since Feb. 1, 1919.

Ser. No. 131,264. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CESAR GRIGLINO, New York, N. Y. Filed Apr. 17, 1920.

Pompier

Particular description of goods.—Non-Alcoholic Maltless Fruit-Flavored Beverage Sold as Soft Drink and Flavorings and Syrup for Making the Same.
Claims use since Jan. 1, 1919.

Ser. No. 131,322. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LOUIS GLAZER, Dallas, Tex. Filed Apr. 19, 1920.

C

Particular description of goods.—Bottled Soda-Water of Different Flavors.
Claims use since Mar. 15, 1913.

Ser. No. 131,331. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITEN BISCUIT CO., Omaha, Nebr. Filed Apr. 19, 1920.

CENTURY

Particular description of goods.—Crackers, Biscuits, Wafers, Cakes, and Cookies.
Claims use since Sept. 1, 1913.

Ser. No. 131,375. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BULOVA-HENSHEL COMPANY, New York, N. Y. Filed Apr. 20, 1920.

BLUEBIRD

Consisting of the words "Blue Bird."
Particular description of goods.—Artificial Pearls.
Claims use since Mar. 11, 1920.

Ser. No. 131,461. (CLASS 31. FILTERS AND REFRIGERATORS.) ATMOSPHERIC REFRIGERATION CORPORATION, New York, N. Y. Filed Apr. 22, 1920.

THERMONDR

Particular description of goods.—Iceless Refrigerators.
Claims use since Mar. 20, 1920.

Ser. No. 131,518. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BATH BOTTLING CO., Bath, Me. Filed Apr. 23, 1920.

GOLD BUG

Particular description of goods.—Ginger-Ale.
Claims use since Jan. 1, 1890.

Ser. No. 131,521. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE EXOLON COMPANY, Boston, Mass. Filed Apr. 23, 1920.

ELECTROGRIT

Particular description of goods.—Abrasives in Comminuted Form.
Claims use since Feb. 21, 1920.

Ser. No. 131,522. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE EXOLON COMPANY, Boston, Mass. Filed Apr. 23, 1920.

CARBOGRIT

Particular description of goods.—Abrasives in Comminuted Form.
Claims use since Feb. 21, 1920.

Ser. No. 131,651. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. S. PEARSALL BUTTER CO., Elgin, Ill. Filed Apr. 26, 1920.



Particular description of goods.—Oleomargarin.
Claims use since on or about Dec. 15, 1919.

Ser. No. 131,682. (CLASS 11. INKS AND INKING MATERIALS.) WESTERN PRODUCTS CO., Cleveland, Ohio. Filed Apr. 26, 1920.

SECURO

Particular description of goods.—Writing Fluid.
Claims use since November, 1919.

Ser. No. 131,689. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN PRODUCTS CORPORATION, Boston, Mass. Filed Apr. 27, 1920.

LINSOLENE

The word "Linsolene."
Particular description of goods.—Liquid and Powdered Soap.
Claims use since Oct. 25, 1919.

Ser. No. 131,799. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KAMM & SCHELLINGER CO., Mishawaka, Ind. Filed Apr. 29, 1920.

K&S

Particular description of goods.—Root-Beer.
Claims use since Feb. 6, 1920.

Ser. No. 131,842. (CLASS 11. INKS AND INKING MATERIALS.) WATERS AND WATERS MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 29, 1920.



Particular description of goods.—Carbon-Paper and Inked Ribbons.
Claims use since May, 1912.

Ser. No. 131,903. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. B. GARNETT, Denver, Colo. Filed May 1, 1920.

ALL IN ONE

Particular description of goods.—A Washing-Powder.
Claims use since Feb. 15, 1920.

Ser. No. 131,967. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) INYO TALC COMPANY, Los Angeles, Calif. Filed May 3, 1920.

SIERRA CLOUD

Particular description of goods.—Talc.
Claims use since Nov. 1, 1917.

Ser. No. 131,968. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) INYO TALC COMPANY, Los Angeles, Calif. Filed May 3, 1920.

SIERRA SNOW

Particular description of goods.—Talc.
Claims use since Nov. 1, 1917.

Ser. No. 132,023. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PATTISON & CO., LTD., New Orleans, La. Filed May 4, 1920.

POLARIS

Particular description of goods.—Soap.
Claims use since Jan. 6, 1920.

Ser. No. 132,174. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GOLD MEDAL CLEANER CO., Buffalo, N. Y. Filed May 8, 1920.

WHITEOLA

Particular description of goods.—Waterproof Dressing for Shoes.
Claims use since July 1, 1917.

TRADE-MARK REGISTRATIONS GRANTED

JUNE 8, 1920.

131,948. GRINDING AND POLISHING WHEELS AND GRINDING AND POLISHING BLOCKS. ABRADANT PRODUCTS COMPANY, Philadelphia, Pa.
Filed December 30, 1916. Serial No. 100,245. PUBLISHED MARCH 2, 1920.

131,949. SELF-RISING WHEAT-FLOUR. THE ACME MILLS, Hopkinsville, Ky.
Filed December 23, 1919. Serial No. 126,344. PUBLISHED MARCH 16, 1920.

131,950. CERTAIN NAMED LIGHTING AND VENTILATING DEVICES. THE ADAMS & WESTLAKE COMPANY, Chicago, Ill.
Filed June 2, 1919. Serial No. 119,094. PUBLISHED FEBRUARY 10, 1920.

131,951. SAPONACEOUS PREPARATION FOR THE COMPLEXION IN POWDERED FORM. CHESTER WARE ALBRIGHT, Indianapolis, Ind.
Filed August 9, 1919. Serial No. 121,435. PUBLISHED MARCH 2, 1920.

131,952. CONFECTIONERY—NAMELY, CHOCOLATES. ALL-QUAL-SWEETS CO. INC., Chicago, Ill.
Filed December 15, 1919. Serial No. 125,997. PUBLISHED MARCH 16, 1920.

131,953. GAS-STOVES, GAS-OVENS, AND GAS-PLATES. THE L. A. ALTHOFF MFG. CO., Chicago, Ill.
Filed October 20, 1919. Serial No. 123,949. PUBLISHED FEBRUARY 10, 1920.

131,954. COMPOUND TABLE-SYRUP, COMPOUND SUGAR, AND FLAVORING COMPOUND FOR FOODS. FRED N. ARGO, Los Angeles, Calif., assignor, by mesne assignments, to The Maple Products Company, Los Angeles, Calif, a Partnership composed of Hazel K. Cary, Fred Fentress Brown, and Howard C. Bonsall.
Filed November 18, 1918. Serial No. 114,204. PUBLISHED JULY 15, 1919.

131,955. SOLE-LEATHER. ASHLAND LEATHER COMPANY, Ashland, Ky., and Chicago, Ill.
Filed September 18, 1917. Serial No. 106,291. PUBLISHED FEBRUARY 10, 1920.

131,956. OLD NEWSPAPER. ATTERBURY BROS. INC., New York, N. Y.
Filed October 17, 1919. Serial No. 123,869. PUBLISHED FEBRUARY 10, 1920.

131,957. VARNISH-PAINT. THE AULT & WIBORG CO., Cincinnati, Ohio.
Filed December 13, 1919. Serial No. 125,930. PUBLISHED MARCH 9, 1920.

131,958. SOLIDIFIED-ALCOHOL FUEL-BURNERS. BASIC PRODUCTS CORPORATION, (now by change of name The Theroz Company, a Corporation of Delaware,) New York, N. Y.
Filed May 24, 1919. Serial No. 118,873. PUBLISHED FEBRUARY 10, 1920.

131,959. WHEAT-FLOUR AND CORNMEAL. BAY CITY MILLING COMPANY, Bay City, Mich.
Filed December 10, 1919. Serial No. 125,771. PUBLISHED MARCH 23, 1920.

131,960. CLEANSING PREPARATION FOR RUGS, SILK, SATIN, WOOL, COTTON, AND METAL. MILAN BEDROSIAN, Elmira, N. Y.
Filed March 18, 1919. Serial No. 116,675. PUBLISHED FEBRUARY 24, 1920.

131,961. SELF-RISING WHEAT-FLOUR. BERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo.
Filed June 9, 1919. Serial No. 119,335. PUBLISHED MARCH 16, 1920.

131,962. DEVICE FOR PROTECTING MATERIAL TO WHICH BUTTONS ARE ATTACHED WHILE THE BUTTONS ARE BEING CLEANED. JOHN LAMB HAMILTON BLACKWOOD, London, England.
Filed November 7, 1918. Serial No. 114,074. PUBLISHED FEBRUARY 10, 1920.

131,963. PYROXYLIN COMPOUND OF A CELLULOID TYPE. GEORGE BORGFELDT & CO., New York, N. Y.
Filed December 9, 1919. Serial No. 125,738. PUBLISHED FEBRUARY 10, 1920.

131,964. ELECTRIC TRUCKS AND ACCESSORIES—NAMELY, SEPARATE DETACHABLE PLATFORMS AND DETACHABLE BODIES. WILLARD COPE BRINTON, New York, N. Y.
Filed June 14, 1919. Serial No. 119,593. PUBLISHED JANUARY 6, 1920.

131,965. CURTAIN-WINDOWS FOR VEHICLE AND SIMILAR CURTAINS. A. S. CAMPBELL COMPANY, Boston, Mass.
Filed August 27, 1919. Serial No. 122,044. PUBLISHED MARCH 2, 1920.

131,966. SNAP-FASTENERS. CARR FASTENER COMPANY, Cambridge, Mass.
Filed December 15, 1919. Serial No. 126,007. PUBLISHED MARCH 2, 1920.

131,967. SNAP-FASTENERS. CARR FASTENER COMPANY, Cambridge, Mass.
Filed December 15, 1919. Serial No. 126,008. PUBLISHED MARCH 2, 1920.

131,968. TEAS. CARTER, MACY & CO., INC., New York, N. Y.
Filed June 9, 1919. Serial No. 119,338. PUBLISHED MARCH 16, 1920.

131,969. KEROSENE-BURNERS, KEROSENE GAS GENERATORS AND BURNERS, AND FURNACES EQUIPPED WITH SUCH APPARATUS. THE CHAMPION KEROSENE-BURNER COMPANY, Kenton, Ohio.
Filed July 7, 1919. Serial No. 120,300. PUBLISHED FEBRUARY 10, 1920.

131,970. GLASS. CORNING GLASS WORKS, Corning, N. Y.
Filed August 18, 1919. Serial No. 121,747. PUBLISHED FEBRUARY 10, 1920.

131,971. BUTTER. CRENSHAW BROS. PRODUCE CO., INC., Tampa, Fla.
Filed January 10, 1920. Serial No. 126,989. PUBLISHED MARCH 23, 1920.

131,972. POULTRY AND STOCK FEED—NAMELY, WHEAT FEED, STOCK FEED, AND BALANCED RATION. J. CUSHING CO., Fitchburg, Mass.
Filed December 16, 1919. Serial No. 126,098. PUBLISHED MARCH 23, 1920.

131,973. COAL-STOVES. DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del.
Filed October 20, 1919. Serial No. 124,082. PUBLISHED JANUARY 27, 1920.

131,974. HAIRPINS, SAFETY-PINS, TOILET-PINS, SNAP-FASTENERS, AND HOOK-AND-EYE TAPE. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed June 9, 1919. Serial No. 119,340. PUBLISHED FEBRUARY 10, 1920.

131,975. SALT FISH. JOSEPH K. DENNIS, Boston, Mass.
Filed April 17, 1919. Serial No. 117,561. PUBLISHED MARCH 23, 1920.

131,976. SALT FISH. JOSEPH K. DENNIS, Boston, Mass.
Filed April 17, 1919. Serial No. 117,562. PUBLISHED MARCH 23, 1920.

131,977. SHOE-LACES. DODSON, FISHER, BROCKMANN Co., Minneapolis, Minn.
Filed September 22, 1919. Serial No. 122,974. PUBLISHED FEBRUARY 10, 1920.

131,978. FELT POLISHING-WHEELS. EASTERN FELT COMPANY, Winchester, Mass.
Filed May 6, 1919. Serial No. 118,206. PUBLISHED MARCH 2, 1920.

131,979. PURE EGG-POWDER AND EGG-SUBSTITUTE POWDER. EG-STE-TUT MFG. CO., Logansport, Ind.
Filed December 11, 1919. Serial No. 125,835. PUBLISHED MARCH 23, 1920.

131,980. POLISH FOR CLEANING, POLISHING, PRESERVING, AND FINISHING CERTAIN NAMED SURFACES AND ARTICLES. EVERBRIGHT MANUFACTURING COMPANY, San Francisco, Calif.
Filed July 23, 1918. Serial No. 112,280. PUBLISHED JULY 1, 1919.

131,981. CANNED FRUITS AND VEGETABLES. THE FAIRFIELD CANNING COMPANY, Chillicothe, Ohio.
Filed December 16, 1919. Serial No. 126,118. PUBLISHED MARCH 16, 1920.

131,982. OLIVE-OIL. GAMANOS & BOOSKOS, New York, N. Y.
Filed January 14, 1920. Serial No. 127,119. PUBLISHED MARCH 23, 1920.

131,983. SANITARY AERATING AND PROTECTING DEVICE IN THE NATURE OF A VENTILATED STOPPER FOR MILK-CANS. ROBERT I. GILL, Platteville, Wis.
Filed August 11, 1919. Serial No. 121,525. PUBLISHED FEBRUARY 10, 1920.

131,984. CERTAIN NAMED FOODS. GORDON & DILWORTH INC., New York, N. Y.
Filed January 30, 1919. Serial No. 115,528. PUBLISHED MARCH 16, 1920.

131,985. CERTAIN NAMED FOODS. GORDON & DILWORTH INC., New York, N. Y.
Filed January 30, 1919. Serial No. 115,530. PUBLISHED MARCH 16, 1920.

131,986. OLEOMARGARIN. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed January 10, 1920. Serial No. 126,993. PUBLISHED MARCH 23, 1920.

131,987. BICYCLES. GREAT WESTERN MANUFACTURING Co., Laporte, Ind.
Filed June 6, 1919. Serial No. 119,268. PUBLISHED MARCH 2, 1920.

131,988. CANNED VEGETABLES. GREEN MOUNTAIN PACKING COMPANY, Portland, Me.
Filed December 23, 1919. Serial No. 126,365. PUBLISHED MARCH 16, 1920.

131,989. CANNED AND PRESERVED FRUITS, CANNED VEGETABLES, CANNED FISH, AND CANNED OYSTERS. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed April 20, 1917. Serial No. 103,144. PUBLISHED JULY 22, 1919.

131,990. CANDY. GUTH CHOCOLATE COMPANY, Baltimore, Md.
Filed January 22, 1920. Serial No. 127,476. PUBLISHED MARCH 23, 1920.

131,991. SHELLED AND UNSHELLED NUTS IN THEIR NATURAL STATE AND DRIED FRUITS. HABICHT AND COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,933. PUBLISHED MARCH 16, 1920.

131,992. HAT-SHIELDS. LOUISE W. HACKNEY, Chicago, Ill.
Filed November 26, 1919. Serial No. 125,326. PUBLISHED MARCH 2, 1920.

131,993. FLYING-MACHINES, BALLOONS, PROPELLERS FOR AIRCRAFT, BICYCLES, MOTORCYCLES, AND MOTOR-CARS. HANDLEY PAGE LIMITED, London, England.
Filed June 25, 1919. Serial No. 119,945. PUBLISHED MARCH 2, 1920.

131,994. CLOSET-SEATS AND FLUSHING-TANKS. WILLIAM HEAP & SONS, Grand Haven, Mich.
Filed June 6, 1919. Serial No. 119,269. PUBLISHED FEBRUARY 17, 1920.

131,995. AUTOMOBILES AND AUTOMOBILE-TRUCKS. HEBB MOTORS COMPANY, Lincoln, Nebr.
Filed February 11, 1918. Serial No. 108,942. PUBLISHED FEBRUARY 17, 1920.

131,996. WHEAT-FLOUR. HOLMES AND BARNES, LTD., Baton Rouge, La.
Filed December 14, 1918. Serial No. 114,645. PUBLISHED MARCH 16, 1920.

131,997. LENSES FOR AUTOMOBILE-HEADLIGHTS. HOLOPHANE GLASS CO., INC., New York, N. Y.
Filed October 15, 1917. Serial No. 106,773. PUBLISHED FEBRUARY 10, 1920.

131,998. NON-ALCOHOLIC MALT BEVERAGE SOLD AS A SOFT DRINK. WM. HORLICK, Jr., Racine, Wis.
Filed November 26, 1919. Serial No. 125,327. PUBLISHED MARCH 9, 1920.

131,999. CHOCOLATE. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y.
Filed January 10, 1920. Serial No. 126,996. PUBLISHED MARCH 23, 1920.

132,000. WOOD-PULP BOARDS AND BLOCKS. INTERNATIONAL INSULATION COMPANY, International Falls, Minn.
Filed October 22, 1918. Serial No. 113,848. PUBLISHED FEBRUARY 10, 1920.

132,001. WHEAT-FLOUR. INTERNATIONAL MILLING COMPANY, New Prague, Minn.
Filed December 27, 1919. Serial No. 126,522. PUBLISHED MARCH 23, 1920.

132,002. MOTOR-TRUCKS. HUGH SAMUEL JARVIS, New York, N. Y.
Filed August 1, 1919. Serial No. 121,177. PUBLISHED FEBRUARY 10, 1920.

132,003. CERTAIN NAMED FOODS. GEORGE F. JEFFERSON, Cincinnati, Ohio.
Filed December 19, 1919. Serial No. 126,252. PUBLISHED MARCH 23, 1920.

132,004. METAL-POLISH. C. M. KIMBALL COMPANY, Winthrop, Mass.
Filed July 10, 1919. Serial No. 120,423. PUBLISHED MARCH 2, 1920.

132,005. WHITE-MARBLE LIME. OLIVER KING, Knoxville, Tenn.
Filed September 6, 1919. Serial No. 122,400. PUBLISHED FEBRUARY 10, 1920.

132,006. LEATHER. KISTLER, LESH & COMPANY, Boston, Mass.
Filed June 12, 1919. Serial No. 119,518. PUBLISHED FEBRUARY 10, 1920.

132,007. LEATHER. KISTLER, LESH & COMPANY, Boston, Mass.
Filed June 12, 1919. Serial No. 119,519. PUBLISHED FEBRUARY 10, 1920.

132,008. LEATHER. KISTLER, LESH & COMPANY, Boston, Mass.
Filed June 12, 1919. Serial No. 119,520. PUBLISHED FEBRUARY 10, 1920.

132,009. CONFECTION KNOWN AS MINTS. L. P. LARSON JR. CO., Chicago, Ill.
Filed August 18, 1919. Serial No. 121,770. PUBLISHED MARCH 16, 1920.

132,010. AUTOMOBILES. LEACH-BILTWELL MOTOR COMPANY, Los Angeles, Calif.
Filed September 22, 1919. Serial No. 122,992. PUBLISHED MARCH 2, 1920.

132,011. PREPARED LUNCHES IN PACKAGE FORM. SEVERN G. LEOFFLER, Jr., Washington, D. C.
Filed December 27, 1919. Serial No. 126,527. PUBLISHED MARCH 16, 1920.

132,012. CERTAIN NAMED FOODS. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed December 30, 1919. Serial No. 126,643. PUBLISHED MARCH 23, 1920.

132,013. CERTAIN NAMED FOODS. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed December 30, 1919. Serial No. 126,644. PUBLISHED MARCH 23, 1920.

132,014. STRUCTURAL STEEL—NAMELY, BEAMS, CHANNELS, ANGLES; PLATES, FABRICATED AND UNFABRICATED; GIRDERS, COLUMNS, AND ROOF-TRUSSES. MCCLINTIC-MARSHALL PRODUCTS COMPANY, Pittsburgh, Pa.
Filed September 19, 1919. Serial No. 122,901. PUBLISHED FEBRUARY 10, 1920.

132,015. SUSPENDERS AND DRESS-SHIELDS. MCDONALD BROS. CO., Minneapolis, Minn.
Filed December 15, 1919. Serial No. 126,048. PUBLISHED MARCH 2, 1920.

132,016. HOG, HORSE, DAIRY, AND SCRATCH FEED. THE MCMILLEN CO., Fort Wayne, Ind.
Filed December 23, 1919. Serial No. 126,387. PUBLISHED MARCH 23, 1920.

132,017. MAGNESIUM-OXYCHLORID CEMENT AND CERTAIN PRODUCTS MADE THEREFROM. THE MACANITE COMPANY OF AMERICA, Philadelphia, Pa.
Filed July 2, 1919. Serial No. 120,216. PUBLISHED MARCH 2, 1920.

132,018. CANDY. DAVID FRANK MAGEE, York, Pa.
Filed January 21, 1919. Serial No. 115,352. PUBLISHED AUGUST 5, 1919.

132,019. LEATHER, FABRIC, OR RUBBER BELTS FOR PERSONAL WEAR. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed October 28, 1919. Serial No. 124,277. PUBLISHED MARCH 2, 1920.

132,020. LEATHER. OTTO MEYER & CO. INC., New York, N. Y.
Filed December 9, 1919. Serial No. 125,756. PUBLISHED FEBRUARY 10, 1920.

132,021. SILK PIECE GOODS. J. A. MIGEL, INC., New York, N. Y.
Filed June 16, 1919. Serial No. 119,661. PUBLISHED MARCH 16, 1920.

132,022. COAL. MITCHELL & DILLON COAL CO., Chicago, Ill.
Filed June 20, 1919. Serial No. 119,808. PUBLISHED MARCH 2, 1920.

132,023. BLOWN-OIL ASPHALTS. CHARLES MULLER, Chicago, Ill.
Filed May 24, 1918. Serial No. 111,178. PUBLISHED FEBRUARY 10, 1920.

132,024. OLIVE-OIL. MUSHER & COMPANY, INCORPORATED, New York, N. Y.; San Diego, Calif.; Baltimore, Md., and Washington, D. C.
Filed May 9, 1919. Serial No. 118,320. PUBLISHED MARCH 16, 1920.

132,025. VULCANIZED FIBER USED AS LEATHER, PORCELAIN, RUBBER, AND MOLDED INSULATION SUBSTITUTES AND AS STOCK IN MANUFACTURING CERTAIN NAMED ARTICLES. NATIONAL FIBRE AND INSULATION COMPANY, Yorklyn, Del.
Filed September 13, 1919. Serial No. 122,650. PUBLISHED MARCH 2, 1920.

132,026. SOAP IN BAR, POWDERED, OR PASTE FORM FOR THE TOILET, LAUNDRY, BATH, AND HOUSEHOLD USE. THE NATIONAL SULFERN SOAP CO., Denver, Colo.
Filed May 8, 1919. Serial No. 118,272. PUBLISHED MARCH 2, 1920.

132,027. GLASS REFLECTORS. NATIONAL X-RAY REFLECTOR CO., Chicago, Ill.
Filed September 25, 1919. Serial No. 123,136. PUBLISHED FEBRUARY 10, 1920.

132,028. CERTAIN NAMED CONFECTIONERY. THE NELSON-DASHIELL COMPANY, Baltimore, Md.
Filed August 8, 1919. Serial No. 121,404. PUBLISHED MARCH 16, 1920.

132,029. CORK DISKS AND WASHERS FOR SEALING BOTTLES, JARS, AND SIMILAR CONTAINERS. NEW PROCESS CORK COMPANY, New York, and Brooklyn, N. Y.
Filed November 22, 1918. Serial No. 114,291. PUBLISHED FEBRUARY 10, 1920.

132,030. SUSPENDERS, GARTERS, AND BELTS FOR PERSONAL WEAR. THE OHIO SUSPENDER COMPANY, Mansfield, Ohio.
Filed October 3, 1919. Serial No. 123,395. PUBLISHED MARCH 2, 1920.

132,031. PEARL BUTTONS. PARAGON BUTTON CORPORATION, New York, N. Y.
Filed December 9, 1919. Serial No. 125,760. PUBLISHED MARCH 2, 1920.

132,032. SNAP-FASTENERS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed February 2, 1918. Serial No. 108,775. PUBLISHED MARCH 2, 1920.

132,033. LUMINOUS PENDANT FOR ATTACHMENT TO ARTICLES FOR SHOWING THEIR LOCATION IN THE DARK. THE PIONEER CORPORATION, Chicago, Ill.
Filed September 8, 1919. Serial No. 122,445. PUBLISHED DECEMBER 2, 1919.

132,034. OAT-SEEDS. PITTMAN & HARRISON COMPANY, Sherman, Tex.
Filed October 28, 1918. Serial No. 113,922. PUBLISHED MARCH 2, 1920.

132,035. ARTIFICIALLY-PREPARED ROOFING—NAMELY, COMPOSITION SHINGLES AND ROLL-ROOFING. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed September 27, 1919. Serial No. 123,221. PUBLISHED FEBRUARY 10, 1920.

132,036. METALLIC SHADES AND REFLECTORS FOR LIGHTING-FIXTURES. L. PLAUT & CO., New York, N. Y.
Filed November 7, 1918. Serial No. 114,081. PUBLISHED FEBRUARY 10, 1920.

132,037. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed November 7, 1919. Serial No. 124,664. PUBLISHED MARCH 2, 1920.

132,038. INTERNAL-GEAR DRIVE UNITS AND PLIABLE DRIVES, EXTENDED FRAMES FOR TRUCKS, AND MOTOR-ARM SUPPORTS. SAMUEL W. PRUSSIAN, Cambridge, Mass.
Filed July 15, 1919. Serial No. 120,580. PUBLISHED FEBRUARY 10, 1920.

132,039. FIRE-BRICK. PYRO PRODUCTS COMPANY, Chicago, Ill.
Filed September 13, 1919. Serial No. 122,659. PUBLISHED FEBRUARY 24, 1920.

132,040. REFRACTORY BRICK. QUIGLEY FURNACE SPECIALTIES CO., INCORPORATED, New York, N. Y.
Filed December 14, 1918. Serial No. 114,648. PUBLISHED FEBRUARY 10, 1920.

132,041. SOAPS IN LIQUID OR CAKE FORM, SHAVING PREPARATIONS—NAMELY, CREAM, POWDERS, AND SOAP STICKS. THE REMILLER COMPANY, New York, N. Y.
Filed March 21, 1919. Serial No. 116,796. PUBLISHED FEBRUARY 24, 1920.

132,042. AUTOMATIC STEERING-DEVICE FOR MOTOR-VEHICLES. THOMAS F. ROBINSON, Minneapolis, Minn.
Filed October 30, 1919. Serial No. 124,357. PUBLISHED FEBRUARY 10, 1920.

132,043. WARM-AIR FURNACES AND WARM-AIR HEATING SYSTEMS. ROCK ISLAND STOVE COMPANY, Rock Island, Ill.
Filed August 29, 1919. Serial No. 122,137. PUBLISHED MARCH 2, 1920.

132,044. CHEESE. ROETHLISBERGER & CO. INC., New York, N. Y.
Filed December 16, 1919. Serial No. 126,142. PUBLISHED MARCH 23, 1920.

132,045. ICE-CREAM CONES. THE ROYAL CONE CO., Detroit, Mich.
Filed April 7, 1919. Serial No. 117,248. PUBLISHED SEPTEMBER 16, 1919.

132,046. AEROPLANES AND VARIOUS COMPONENT PARTS THEREOF—NAMELY, THE FUSELAGE, THE WINGS, AND THE TAIL-ASSEMBLY. THE RUBAY COMPANY, Cleveland, Ohio.
Filed November 8, 1918. Serial No. 114,107. PUBLISHED FEBRUARY 10, 1920.

132,047. SNAP-FASTENERS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed October 30, 1919. Serial No. 124,365. PUBLISHED FEBRUARY 10, 1920.

132,048. RICE. WILLIAM S. SCULL COMPANY, Camden, N. J.
Filed December 22, 1919. Serial No. 126,336. PUBLISHED MARCH 23, 1920.

132,049. COAL. SLOGO COAL COMPANY, Marion, Ill.
Filed November 15, 1918. Serial No. 114,194. PUBLISHED FEBRUARY 10, 1920.

132,050. CLEANING PASTE AND A PREPARATION TO BE USED IN CLEANSING THE HANDS. WILLIAM B. SMYTHE, Lynn, Mass.
Filed September 19, 1919. Serial No. 122,918. PUBLISHED MARCH 2, 1920.

132,051. COMPOSITION ROOFING, WALL-BOARD, AND BUILDING-PAPERS. THE STANDARD PAINT COMPANY, Boundbrook, N. J., and New York, N. Y.
Filed October 3, 1919. Serial No. 123,402. PUBLISHED MARCH 2, 1920.

132,052. GLOVE-BINDING. THE STAR BINDING & TRIMMING CO., INC., New York, N. Y.
Filed October 30, 1919. Serial No. 124,361. PUBLISHED MARCH 2, 1920.

132,053. TOILET SOAPS. FREDERICK STEARNS & CO., Detroit, Mich.
Filed September 6, 1919. Serial No. 122,409. PUBLISHED MARCH 2, 1920.

132,054. MILLWORK, FIBER WALL-BOARD, GYPSUM WALL-BOARD, ASPHALT COMPOSITION ROOFING, AND WOOD AND METAL PLASTER-LATHS. THE STERLING LUMBER CO., Cincinnati, Ohio.
Filed August 29, 1919. Serial No. 122,139. PUBLISHED FEBRUARY 10, 1920.

132,055. FOOD-SYRUP USED AS AN AID IN WHIPPING CREAM. FRANCIS GURNEY STEWART, Chicago, Ill.
Filed January 6, 1920. Serial No. 126,882. PUBLISHED MARCH 23, 1920.

132,056. CANDIES, ICE-CREAM, AND FANCY ICED FRENCH, DANISH, AND AUSTRIAN PASTRY. TIFFIN PRODUCTS, INC., Long Island City, N. Y.
Filed October 30, 1919. Serial No. 124,369. PUBLISHED MARCH 23, 1920.

132,057. CANDIES AND NUTS, BOTH CANDIED AND IN THEIR NATURAL STATE. TREISMAN BRO'S & DIVERSI CO., Concord, N. H.
Filed September 2, 1919. Serial No. 122,232. PUBLISHED MARCH 23, 1920.

132,058. CERTAIN NAMED PLUMBERS' SUPPLIES OF EARTHENWARE. THE TRENTON POTTERIES COMPANY, Trenton, N. J.
Filed April 26, 1919. Serial No. 117,912. PUBLISHED FEBRUARY 10, 1920.

132,059. DAIRY RATION. THE UBIKO MILLING COMPANY, St. Bernard, Ohio.
Filed January 5, 1920. Serial No. 126,833. PUBLISHED MARCH 23, 1920.

132,060. LEATHER, FINISHED AND PARTLY FINISHED, AND PARTICULARLY PICKER-LEATHER. THE ULMER LEATHER COMPANY, Norwich, Conn.
Filed October 25, 1919. Serial No. 124,193. PUBLISHED FEBRUARY 10, 1920.

132,061. RADIATORS FOR INTERNAL-COMBUSTION ENGINES. UNITED STATES CARTRIDGE COMPANY, Lowell, Mass.
Filed September 3, 1919. Serial No. 122,272. PUBLISHED FEBRUARY 10, 1920.

132,062. RADIATORS FOR INTERNAL-COMBUSTION ENGINES. UNITED STATES CARTRIDGE COMPANY, Lowell, Mass.
Filed September 3, 1919. Serial No. 122,273. PUBLISHED FEBRUARY 10, 1920.

132,063. ETHYL ALCOHOL FOR USE AS CLEANSER OR DETERGENT OR SIMILAR SOLVENT. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed January 29, 1919. Serial No. 115,514. PUBLISHED DECEMBER 30, 1919.

132,064. CANDY. THE VENUS CHOCOLATE COMPANY, Sidney and Lockport, Ohio.
Filed April 5, 1919. Serial No. 117,206. PUBLISHED MARCH 16, 1920.

132,065. CANNED VEGETABLES. WABASH VALLEY PACKING CO., Mount Carmel, Ill.
Filed March 17, 1919. Serial No. 116,672. PUBLISHED MARCH 23, 1920.

132,066. WORSTED FINGERING-YARN. WALKER YARN COMPANY, Boston, Mass.
Filed August 23, 1919. Serial No. 121,954. PUBLISHED FEBRUARY 10, 1920.

132,067. CERTAIN NAMED FOODS. WAPLES-PLATTER GROCER COMPANY, Denison, Tex.
Filed January 7, 1919. Serial No. 115,036. PUBLISHED MARCH 23, 1920.

132,068. PAVEMENTS AND PAVING MATERIAL CONTAINING BITUMINOUS MATTER. WARREN BROTHERS COMPANY, Boston, Mass.
Filed July 31, 1919. Serial No. 121,167. PUBLISHED MARCH 2, 1920.

132,069. DETERGENT POWDER FOR CLEANING CERTAIN NAMED SURFACES AND A SCOURING-POWDER FOR METALLIC UTENSILS. WESTERN CHEMICAL CO., Los Angeles, Calif.
Filed March 22, 1919. Serial No. 116,826. PUBLISHED FEBRUARY 24, 1920.

132,070. BICYCLES. WESTFIELD MANUFACTURING COMPANY, Westfield, Mass.
Filed October 14, 1919. Serial No. 123,780. PUBLISHED FEBRUARY 10, 1920.

132,071. MACARONI SAUCE. WORKMAN PACKING COMPANY, San Francisco, Calif.
Filed January 14, 1920. Serial No. 127,141. PUBLISHED MARCH 23, 1920.

132,072. WOOLEN OVERCOATING GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Lisbon Falls, Me.
Filed October 3, 1918. Serial No. 113,572. PUBLISHED MAY 6, 1919.

132,073. LEATHER-DRESSING. JOHN H. YOCUM, Newark, N. J.
Filed February 1, 1918. Serial No. 108,765. PUBLISHED MARCH 2, 1920.

132,074. CLEANER FOR WHITE GLACÉ KID-LEATHER. CHRIST A. ZOES, Chicago, Ill.
Filed October 29, 1917. Serial No. 107,017. PUBLISHED MARCH 16, 1920.

132,075. RUBBER AND FABRIC OUTER CASINGS AND INNER TUBES FOR PNEUMATIC AUTOMOBILE-TIRES. THE VICTOR RUBBER COMPANY, Springfield, Ohio.
Filed May 10, 1918. Serial No. 110,830. PUBLISHED DECEMBER 31, 1918.

LABELS

REGISTERED JUNE 8, 1920.

21,873.—*Title:* "PARGO BRAND SWEET CORN." (For Cans Containing Sweet Corn.) CHARLES A. WINDHOLZ, Syracuse, N. Y. Filed December 29, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE SCHNEIDER.

Decided October 3, 1918.

1. PATENTS—PRACTICE—CLAIMS PRESENTED ON APPEAL INDEFINITE—CASE REMANDED TO PRIMARY EXAMINER.

Where on appeal to the Commissioner it is found that the appealed claims are so indefinite that it is impossible to determine what they cover, the application will be remanded to the Primary Examiner for immediate action indicating the objections thereto.

2. SAME—EVIDENCE OF INVENTION—CONVERTING FAILURE INTO SUCCESS.

The argument that applicant has converted an unsuccessful machine into a successful one is not always convincing, since success may have resulted from reasons other than in the changes over the prior art specified in the claims.

[Note: This application resulted in patent No. 1,308,766, dated July 8, 1919.]

ON PETITION.

APPEAL FROM EXAMINERS-IN-CHIEF.

CATCHING DEVICE FOR CLOTH-PILING MACHINES.

Mr. Arthur C. Eckert for the applicant.

NEWTON, *Commissioner:*

This is a petition in effect to remand this case to the Primary Examiner for further consideration and an appeal from the decision of the Examiners-in-Chief affirming the action of the Primary Examiner in his final rejection of claims 1, 4, and 5, of which claim 1 is an example:

1. In a catching device for cloth piling machines comprising a pair of brackets adjustably mounted on a table, supporting arms pivotally mounted on the brackets, means for operating the same when contacted with by the cloth piling machine, a catch for cloth mounted on the table, means for adjusting the brackets vertically, and means for adjusting said catch horizontally to accommodate various widths of cloth, substantially as specified.

The references are:

Bendien, April 7, 1908, No. 883,687; Shapera, July 12, 1910, No. 964,124; Dauvergne, May 5, 1903, No. 727,304.

The rejected claims if properly drawn would cover a cloth-piling machine, the novel element of which seems to be the adjusting means to accommodate various widths of cloth.

It has been difficult to intelligently consider the appealed claims because they do not correctly set forth any legitimate combination, the "catch," for example, of claim 1 and "supporting arms" seem to be the same elements. Hence it is impossible to determine what the claim covers, and for that reason this case is remanded to the Primary Examiner that he may immediately and without further action on the part of the applicant indicate the various objections to the claims, since it would be wrong to allow this case to be appealed in its present condition to the Court of Appeals of the District of Columbia.

While the case is before me, however, it may save time for me to express my opinion on the point on which the lower tribunals and applicant have mainly based their contention—viz., would it involve invention to make the catching devices of Bendien adjustable on the table to accommodate various widths of cloth, especially in view of the fact that Bendien's "bracket is adjustable along the tables but not for the purpose of accommodating various widths of cloth?" I agree with the lower tribunals that it would not as broadly as claimed, and in coming to this conclusion I have not taken into consideration applicant's statements to the effect that he has transformed an unsuccessful machine into a successful one. Such an argument is not convincing in the present case. Applicant's success may have been for reasons other than the adjustable features included in the appealed claims. Ordinarily such features of adjustability are unpatentable.

To the extent indicated the petition is granted, and the decision of the Examiners-in-Chief is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

COX *v.* HEADLEY AND THOMPSON.

Decided May 3, 1920.

1. PATENTS—ISSUE CONSTRUED IN LIGHT OF SPECIFICATION WHEN FIRST MADE.

Counts of an interference issue must be given the broadest interpretation they reasonably will support and in the light of the specification where they originated, and this rule is not varied by the fact that the applicant in whose application the claims originated dropped out of the interference after the decision of the Examiner of Interferences.

2. SAME—SAME—ISSUE RELATING TO SUBORDINATE PART OF MACHINE—OPERATIVENESS OF MACHINE AS A WHOLE.

Where the counts of a three-party interference originated in an application where automatic operation was not contemplated, and related to a subordinate part of the entire machine, which application dropped

out of the interference after the decision of the Examiner of Interferences, judgment of priority in favor of one of the remaining parties should not be based on the theory that the other party's machine was not operative as a whole and was therefore not a reduction to practice because it would not perform its functions automatically.

Mr. Fritz v. Briesen for the appellant.

Mr. C. P. Byrnes, Mr. G. H. Parmelee, and *Mr. Geo. E. Stebbins* for the appellee.

ROBB, *J.:*

Appeal from Patent Office decisions in two interference proceedings, Nos. 40,043 and 40,044, in which priority was awarded the junior parties, Headley and Thompson.

The parties to interference No. 40,043 are the appellant Cox and the appellees Headley and Thompson. The invention involved in this interference is an automatic machine for making glass bottles and is expressed in ten counts, taken from the Headley and Thompson application, of which we reproduce the first:

1. In a glass bottling machine, the combination of mold carrying means rotatably mounted, a pair of molds carried by said means opposite each other in radial alinement, a rotatable face plate journaled on a horizontal axis on said mold carrying means and carrying one mold of each set, means for rotating said face plate to place the molds carried thereby in a vertical charging position and then to place said molds in a position to permit removal from the blanks inclosed thereby and their engagement by the other molds carried by said mold-carrying means, and means for moving said mold-carrying means.

Interference No. 40,044 originally involved the applications of Headley and Thompson, Francis W. Pawling, and the appellee Cox. The two counts of this interference were copied from the Pawling application and, as there used, describe a manually rotated device for inverting the mold and swinging open the blank mold members in a bottle making machine. We here reproduce the two counts of this interference:

1. In a glass bottling machine, the combination of a cylindrical carrier rotatable about its own axis and otherwise movable only in a horizontal plane, and having a fluid pressure chamber, a mold including two mating members at least one of which is movable relative to the other, a piston mounted in said fluid pressure chamber, connections between said piston and the movable mold member or members, and means for turning said cylindrical carrier upon its axis to invert the mold.

2. In a glass working machine, the combination of a pedestal, a mold carrier journaled thereon and axially fixed with reference thereto, a mold including two swinging mating members pivotally mounted upon the mold carrier upon an axis lying at an angle to the axis of the mold carrier, an actuating member reciprocally mounted within the journal portion of the mold carrier, connections between said actuating member and the movable mold members.

Cox is the senior party in both interferences and the record clearly discloses that he was the first to conceive the invention of the issues. Evidently realizing the handicap under which they were placed, Headley and Thompson, when the case was reached before the Examiner of Interferences, filed a motion for leave to amend their preliminary statement, but failing to state a sufficient reason therefor the motion was denied. Down to this time Headley and Thompson had filed no motion under Rule 130 of the Patent Office attacking the right of Cox to make the claims. However, after the adverse decision of the Examiner of Interferences on their application to amend their preliminary statement, they notified Cox that at final hearing they would urge that the machine upon which he bases his right to make the claims was inoperative, and hence that the claims were not patentable to him. Thereafter the Examiner of Interferences awarded priority to Cox in both interferences. Since Pawling took no testimony, he was confined to his filing date for conception and reduction to practice, and did not appeal from the decision of the Examiner of Interferences. On appeal to the Examiners-in-Chief, the right of Headley and Thompson to challenge the operativeness of the Cox device was sustained, notwithstanding their failure to file a motion under Rule 130. The Board then ruled that the machine upon which Cox depended for actual reduction to practice "as an entirety" was not "satisfactory," but pointed out that—

when the case was originally filed, the Examiner required a division between claims which involved the shears, for cutting off the glass above the molds, and the rotary plunger or compacting device, which is one of the features alleged to be inoperative, and the group of claims which are involved in the interference, which all relate to the mold carrying and operating elements,

and that the Examiner had found "no necessary connection between these devices." The Board ruled that as—

the issues cover only a subordinate part of the machine which would be capable of use in other bottle blowing machines, and there is no reason to suppose that this part was inoperative, Cox can at least rely upon his constructive reduction to practice on the date of filing of his application, June 4, 1912, and was therefore the first to conceive and first to reduce to practice, which entitles him to an award of priority.

Thereupon, Pawling having dropped out of the case, a petition for rehearing was filed and the Board set aside their decision and adopted the contention of Headley and Thompson that—

the subject matter of the issues is a construction in which the molds are reversed, opened and closed and moved from one station to another *automatically.*

The Board did not attach any weight to the fact that some of the claims had originated in the Pawling application, which admittedly did not disclose an automatic structure, because Pawling had been eliminated from the interference. The Board further found that Cox had not shown that his combination was susceptible of being substituted in machines of the prior art. Thereupon, on appeal by Cox, the Assistant Commissioner sustained the ruling of the Board and awarded priority to Headley and Thompson. The Assistant Commissioner said:

Pawling is not now involved in the interference, since he took no testimony and his application was filed after the date established by Headley and Thompson. If his application were still in the interference the question of the operativeness of that device might have to be considered, but it does not follow, even if the Pawling machine is operative for the purpose for which it is intended, that necessarily the operativeness of the entire machine of Cox can not be considered or that the counts must be construed as limited to the means for opening and closing the molds irrespective of whether this means is operative in the machine shown.

We first will consider the three-party interference, that is No. 40,044. The claims of this interference, having originated in the Pawling application, must be read in the light of the Pawling specification. Over and over again has it been determined that such is the rule, and that claims must be given the broadest interpretation they reasonably will support. (*Podlesak* v. *McInnerney*, 26 App., D. C., 399; *Sobey* v. *Holsclaw*, 28 App., D. C., 65; *Miel* v. *Young*, 29 App., D. C., 481; *Kirby* v. *Clements*, 44 App., D. C., 12; *Seymour* v. *Molyneux*, present term; 271 O. G., 688.) In the case last cited we said:

While we many times have ruled that a party will not be permitted to narrow his claims to suit the exigencies of a given situation, it is equally well settled that the meaning given to the counts of an interference must be that disclosed in the specification of the party first to make the claim.

In the Pawling specification, as the Patent Office tribunals recognized, automatic operations are not contemplated. The application assumes that the blowing operation is to be performed in accordance with the teachings of the prior art. Count No. 1 provides, and was intended to provide, mechanical means for inverting the mold and for swinging open the blank mold members. The neck-mold is not even an element of this count, nor are the plunger and specific form of suction mechanism of the Pawling structure made elements of the count. Count No. 2 differs from count No. 1 in that the pedestal is included as an element, both mold members are specified as "swinging," and the piston is referred to as "an actuating member." Clearly these counts, as used by Pawling, embrace and were intended to embrace nothing more than a distinct subdivision of a glass-blowing machine, which Pawling in his specification states—

may, of course, be incorporated in various ways in glass blowing machines involving other features.

These claims were suggested to and copied by Cox and Headley and Thompson, and in our view, they should be read now, as then, in the light of the Pawling disclosure. The elimination of Pawling cannot result in the elimination or abridgement of this rule of interpretation. The reason for the rule still exists, namely, that the originator of the claims is presumed to have couched them in language setting forth his particular invention. If another claims the invention, it is only fair that the application originating the claims should be looked to in determining their scope and meaning. In the present case, merely because Pawling was defeated before the Examiner of Interferences, the Patent Office has read into the claims of that interference a limitation utterly inconsistent with the disclosure of that application. In so doing the Patent Office erred. Reading these claims in the light of the Pawling application, Cox is entitled to priority because he discloses everything there disclosed.

We come now to the decision in interference No. 40,043, wherein the narrower claims originated with Headley and Thompson. It follows from what we have said that these claims must be read in the light of the disclosure by Headley and Thompson, and we are not prepared to disturb the ruling of the Patent Office that, when so read, they are not patentable to Cox.

The decision in interference No. 40,043 is affirmed, and the decision in interference No. 40,044 is reversed and priority as to that interference awarded Cox.

Affirmed as to interference No. 40,043.

Reversed as to interference No. 40,044.

Mr. Chief Justice SMYTH dissents in interference No. 40,044.

Court of Appeals of the District of Columbia.

HARTSOUGH *v.* GILE.

Decided May 3, 1920.

PATENTS—PRIORITY—ABANDONED EXPERIMENT.

Where G. built a plow-tractor in the summer of 1914, took it to a farm and tested it, brought it back, and laid it aside until the spring of 1916, where it was observed by licensees of the opposing party, H., who induced G. to file an application, while H. filed his application on July 21, 1915, and promptly perfected his machine and placed it on the market, *Held* that what G. did in 1914 must be regarded as an abandoned experiment in view of his failure to act except under the stimulus of the knowledge of H.'s activity and of the further circumstances that, although the tractor was in the same condition at the time of taking testimony and the sufficiency of the test in 1914 was challenged, no attempt was made to prove its operativeness, and that after said test G. directed his attention to the construction of another machine, which was completed in 1916, and for which he immediately applied for a patent.

Mr. A. C. Paul and *Mr. W. G. Henderson* for the appellant.

Mr. Fred Gerlach and *Mr. Percy B. Hills* for the appellee.

ROBB, *J.:*

Appeal from a decision of an Assistant Commissioner of Patents in an interference proceeding awarding priority to the junior party Gile. The invention relates to a plow-tractor and is expressed in a single count, as follows:

In a plow tractor, the combination of a pair of coaxial traction wheels at the sides of the tractor respectively, a single front steering wheel substantially alined longitudinally with one of the traction wheels, said longitudinally alined steering and traction wheels being disposed at the furrow side of the tractor and adapted to travel in the same furrow, a frame supported by said traction and steering wheels, differential gearing between the traction wheels and whereby both will be driven, and a motor mounted on the frame and connected to drive said gearing, said single front wheel when traveling in a furrow acting to automatically steer the tractor, said gearing causing the traction wheels to be driven at relatively different speeds in steering the tractor responsively to the front furrow wheel.

In the summer of 1914 Gile built a tractor at Ludington, Michigan, which we will assume embodied the issue, and in October of that year this tractor was taken to a farm near Scottsville, Michigan, and there tested. In November, following, it was taken back to Ludington and, so far as the evidence discloses, was not used thereafter but found its way to a neighboring ball-park, where it remained until the spring of 1916, when it was discovered by representatives of licensees of Hartsough, whose attention was attracted to it by its resemblance to the Hartsough tractor their concern was manufacturing under license. The Examiner of Interferences found, and we concur in the finding, that Gile was inspired to apply for a patent by representations then made to him. After the construction and test of this machine, it apparently passed out of his mind, for he directed his attention to the construction of another machine which was completed in the summer of 1916, and upon which he almost immediately applied for a patent. After a patent had inadvertently issued to Gile upon the application induced by the licensees of Hartsough, those licensees ceased paying Hartsough royalties but continued to manufacture

the tractor under a license from the assignees of the Gile patent.

When Hartsough's application was filed in July 21, 1915, he not only had perfected his machine but had placed the same on the market, where it was very favorably received. Gile, whose concern manufactured and sold to Hartsough motors for his tractor and who must have known of the tractor's success, did nothing about asserting a claim to the invention, as we have seen, until after the incident to which we have alluded. The testimony relating to the character and sufficiency of the test of the Gile tractor in October of 1914 was taken in May of 1917, or more than two and one-half years after the test. The testimony tended to show that the tractor did "very good work" or, as Gile himself testified, "Well, we considered the work very good." The testimony not only is lacking in detail but is so inconsistent with what followed as to cause us to adopt the finding of the Examiner of Interferences that it falls short of proving reduction to practice. As the circuit court of appeals observed in *Griswold* v. *Harker*, (62 Fed., 389:)

Actions often speak louder and frequently more truthfully than words.

It is inconceivable that Gile, an intelligent man abundantly able, apparently, to take advantage of and protect and promote any invention he should make, and who admittedly was endeavoring to evolve a successful tractor, would have acted as he did had the test of this tractor been even measurably successful. When the testimony was taken the tractor was in existence and apparently as capable of being operated as in 1914, and yet it was not operated. While it is not incumbent upon a party, after satisfactorily proving reduction to practice, again to operate his device, in a case of this sort where there is a serious question as to the success of a former test, the most satisfactory way to settle the question, it occurs to us, would be again to test the machine.

There are other circumstances all tending in the same direction, to which the Examiner of Interferences alluded in his opinion but which need not be repeated here.

This court has uniformly ruled that where, as here, a machine is constructed, tested, put aside and apparently forgotten, and another party in good faith enters the field and constructs a similar machine, puts it upon the market and applies for a patent, the first party, who slumbered upon his rights, must have very clear and convincing evidence that the test of his machine fully complied with the requirements as to reduction to practice, and that if he fails to sustain that burden the test will be regarded as a mere abandoned experiment and priority awarded the party through whose efforts the public received the invention. (*Warner* v. *Smith*, 13 App. D. C., 111; *Adams* v. *Murphy*, 18 App. D. C., 172; *Howard* v. *Hey*, 18 App. D. C., 142; *Quist* v. *Ostrom*, 23 App. D. C., 69; *Gordon* v. *Wentworth*, 31 App. D. C., 150; *Moore* v. *Hewitt*, 31 App. D. C., 577; *Collis* v. *Quenzer*, 38 App. D. C., 481.)

We rule, therefore, that Gile has not sustained the burden of proof in this case and, as he clearly was lacking in diligence, the decision is reversed and priority awarded Hartsough.

Reversed.

U. S. Circuit Court of Appeals—Second Circuit.

G. REIS & BRO., INC., *v.* REFORM INITIAL COMPANY, INC., AND GOTTSCHALK AND BRASCH.

Decided May 12, 1920.

1. PATENTS—INVENTION—CHANGE OF MATERIAL—RESULT NOT MATERIALLY CHANGED.

"A filler form comprising a body of felt compressed * * * and saturated by a water soluble stiffening agent (starch) maintaining it in compressed condition," designed to be used as a filling beneath embroidery-threads, *Held* devoid of invention, it appearing that starched felt was old and that it was old to use other filling material beneath embroidery-threads and the evidence showing that the capacity claimed for the felt in this situation—namely, its expansibility after being freed of starch during washing and so maintaining the "plumpness" of the embroidery—did not exist in any useful degree.

2. SAME — SAME — CHANGE OF MATERIAL — UTILIZING KNOWN CAPACITY OF SUBSTITUTED MATERIAL.

The use of starched compressed felt, which was old, for a filler-form to be placed beneath embroidery-threads, claimed by the patentee to have the capacity of expanding after being freed of the starch during washing, *Held* devoid of invention as involving only a substitution of an old material for material formerly used for the same purpose, the capacity of the material to so expand being only trifling and having been long known.

Before ROGERS, HOUGH, and MANTON, Circuit Judges.

STATEMENT OF THE CASE.

Appeal from decree of District Court for the Southern District of New York dismissing bill in equity for infringement of all the claims of Patent No. 1,294,560, issued February 18, 1919, for a "filler-form for embroidery."

Claim 6 is typical, and is as follows:

A filler form comprising a body of felt compressed beyond its normal density and saturated by a water soluble stiffening agent maintaining it in compressed condition, whereby said body is adapted to expand to its normal dimensions when said stiffening agent is washed out.

Mr. S. Mortimer Ward for plaintiff-appellant.

Mr. Thomas Ewing for defendants-appellees.

HOUGH, *Cir. J.:*

To the end that embroidery may stand out from the embroidered fabric more prominently than it will or can through or by the thickness of the thread or filament applied, it has long been customary to "fill" the embroidery, *i. e.* to stuff out the figure which is the ornamentation by covering the stuffing with the silk, cotton or other threads used by the embroiderer.

It is easier to do this if the stuffing or filling is preconstructed in the shape or outline of the intended ornament of embroidery; and this construction was generically old.

The patentee's desired result, as specified, was to produce a—

filler-form * * * which will * * * give to the finished embroidery the desirable well rounded contour (and) * * * will expand * * * so as to take up any looseness in the embroidery stitches, and permit of the finished embroidery being washed an indefinite number of times without injury.

The quoted claim, even without evidence as found in the record, sufficiently shows that the patentee's means consist in cutting figures (usually letters of the alphabet) out of starched felt.

Considering the admitted antiquity of filled embroidery and of felt stiffened in many ways including starch, the field left for invention was indeed narrow; and plaintiffs can and do contend only that their use of felt solubly stiffened is so remotely analogous to any former use thereof—that (being productive of a new result), it sufficiently evidences exercise of inventive faculty, within *Potts* v. *Creager* (155 U. S., at 608.)

But the field of invention was further and especially narrowed by a prior patent (No. 1,063,734) for a filler-form—

comprising united one or more layers of textile fabric, and one or more layers of material (giving) shape retaining qualities or firmness, * * * for example * * * *unwoven fibrous material*, digested wood pulp, or other forms of cellulose, compressed.

That this included compressed felt is undeniable.

Consequently the patent stands or falls on the expansible or "plumping" capacity of felt when freed of starch. On this point we hold on the evidence, and as matter of fact, that no such capacity is shown to exist in any useful degree. We are further of opinion that such trifling expansibility being a long-known function of felt, its use for embroidery filling amounts (at the most) to no more than a change of material for attempting the more perfect accomplishment of the same work—which is not patentable. (*Potts* v. *Creager*, *supra.*)

While as above intimated, we are not persuaded that there is by plaintiff's means any "more perfect accomplishment," this case is entirely within the principle of our decisions in *Ambursen, &c., Co.* v. *Hydraulic, & Co.*, (211 F. R., 982,) and *New York, &c., Co.* v. *Sierer*, (158 F. R., 819;) while *Marconi, &c., Co.* v. *De Forest, &c., Co.*, (243 F. R. at 564,) illustrates a case where there was a new use or application and a wholly new result.

Decree affirmed with costs.

U. S. Circuit Court of Appeals—Third Circuit.

VANDENBURGH *v.* ELECTRIC WELDING CO.

Decided February 19, 1920. Rehearing denied March 20, 1920.

263 Fed. Rep., 95.

1. PATENTS—PATENT FOR REINFORCING-BAR HELD LIMITED AND NOT INFRINGED.

The Vandenburgh patent, No. 841,741, for a reinforcing-bar for use in concrete work, *Held* limited by the prior art to a bar with kerfs or cuts in which the attached coil is placed and a tongue or spur overlapping the kerf and holding the coil in place, and, as so limited, not infringed.

2. SAME—REISSUE PATENT FOR REINFORCING-BAR HELD INVALID AS NOT WARRANTED BY ORIGINAL PATENT.

Claims 1 and 2 of the Vandenburgh reissue patent, No. 14,182, for reinforcing-bars for use in concrete work, *Held* invalid, as not warranted by the original patent.

APPEAL from the District Court of the United States for the Western District of Pennsylvania; Charles P. Orr, Judge.

Suit by George E. Vandenburgh against the Electric Welding Company. From a decree dismissing the bill, plaintiff appeals. Affirmed.

Mr. Carlos P. Griffin for the appellant.

Mr. Frederick W. Winter for appellee.

Before BUFFINGTON and WOOLLEY, Circuit Judges, and MORRIS, District Judge.

BUFFINGTON, *Cir. J.:*

On January 22, 1907, there was issued to George E. Vandenburgh, Patent No. 841,741, for a reinforcing-bar. On August 15, 1916, a reissue of said patent was granted, No. 14,182. This reissue made no change from the original, either in the specification, in the figures, or in claim 3, here in issue; but claims 1 and 2, here in issue, are new. Vandenburgh having charged the Electric Welding Company with infringing said three claims of the reissue, and the court below having, on final hearing, held the claims invalid and dismissed the bill, Vandenburgh took this appeal.

1. After argument and due consideration, we are of opinion the court below made no error in dismissing the bill. The grounds of our conclusion we now record:

The combination device, which Vandenburgh disclosed in his specification, was a particular type of attachment of coils and reinforcing-bars in concrete work. Both coils of wire and reinforcing-bars to which such coils were attached were prior devices in use in that art. Taking these two familiar devices of coil and bar, Vandenburgh disclosed a new way of attaching the coil and bar for use in the concrete-reinforcing art, to wit, by the use of kerf or cut in the side of the bar in which the coil was placed, and a tongue or spur overlapping the kerf, which spur, when bent down, served to hold the coil in place. This seating of the bar in the kerf cut and keeping it in place by the overlapping spur or tongue, Vandenburgh set forth in his specification as follows:

As a preferred means of securing the coils to the bar I have shown a series of kerfs 8 in *one face of the bar* inclined away from the center of the bar toward the opposite ends thereof, and the coils are seated within these kerfs and *held therein* by means of the integral spurs 9, *which are forced downward* upon the coils when inserted *and permanently retain them in position*—

and embodied in his third claim as follows:

A reinforcing bar provided upon *one end* with a series of kerfs, each having an integral overlapping spur, and a coil disposed in said kerfs; each convolution thereof being retained beneath one of said spurs.

Now, while a kerf or cut in the edge of a bar was a common mechanical expedient, no one had used it in concrete reinforcement until Vandenburgh disclosed his device. But, other than a combination using a kerf, Vandenburgh disclosed nothing new in his specification. Finding his kerfed combination novel, regarding it as useful, and assuming for present purposes, as we will, that it embodied invention, there is no reason for regarding it as other than a narrow contribution to the art of a specific type of coil and bar attachment. In the nine years between its grant and the filing of this bill, Vandenburgh's patent made no impress in the art, and we give the patentee the full measure of his disclosure

and the protection of his claim by limiting his field of monopoly to a reinforcing-bar with a kerf and an integral overlapping spur, as embodied in his third claim.

Thus limited, such claim is not infringed by the defendant's structure. It has coils, which, as we have seen, are old; it has a reinforcing-bar, which is also old; and the two are attached, but the crux is: How are they attached? Are they attached by a kerf cut? Mere attachment of bar and coil were old, and Vandenburgh's advance consisted, not in bar and coil attachment generally, but in the kerf and spur attachment. This form of attachment being the gist of Vandenburgh's patent, it must be the test of defendant's infringement, or, in other words, does the defendant use the kerf and spur attachment of Vandenburgh's claim? In our judgment, it does not. The kerf of the claim is upon one end, which can only mean one edge of the reinforcing-bar, which end or edge cut is the only form of bar and kerf cut disclosed by Vandenburgh, and his bar is a flat bar, and the kerfs are cut diagonally into the edge of such flat bar. On the other hand, the bar of the defendant's device consists of a channel-bar and there is no cut of any kind in the end or edge of either of the channel sides. On the contrary, attachment in defendant's bar is made by using the back body of the central bar of the channel and stamping a tongue out of said solid central back portion, and then winding such tongue over the coil, which does not rest in the body of the bar but outside of it.

It will thus be seen the defendant's coil is not restrained by the body of the bar, or by the sides of any cut in the body of the bar, but is restrained wholly by the tongue, which surrounds and holds the coil. In Vandenburgh's structure, the tongue or spur simply holds the coil in the kerf recess, and it is the cut sides of the kerf which hold the coil in place. If Vandenburgh's spur or tongue broke, the kerf sides would still have a coil-restraining function. But in defendant's device the sides of the cut in the body structure do not restrain or hold the coil; that is the function of the stamped cut, coil-encircling tongue. If defendant's tongue broke, there would be absolutely no coil and bar attachment or restraint, for the cut in the bar has no functional purpose whatever, save to create a tongue, and the attaching, functional agency of defendant's tongue would be the same if no cut in the reinforcing bar were made but the tongue was made by riveting it on the reinforcing-bar. For these reasons we are clear defendant's structure does not infringe the third claim.

2. Seeing, then, that the kerf and overlapping spur in combination constituted the real invention of Vandenburgh, and that he disclosed no other form of attachment, it is quite evident he was not entitled to broad claims of the generic type, which he secured on the reissue in claims 1 and 2. Kerf and overlapping spurs are not embodied in these claims, and it is manifest that these claims, unrestricted by the limitation of kerf and spur, were only added nine years after his patent was granted, to make infringers of those who used other forms of attachment than the kerf and overlapping spur, which alone Vandenburgh disclosed, and which were the sole warrant for the grant of his patent.

Such being the case, it is clear the court below was not in error in dismissing the bill.

Patents Nos. 1,343,189 to 1,343,890.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 275—No. 3. TUESDAY, JUNE 15, 1920. Price—$5 per year.
[PUBLISHED JUNE 16, 1920.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JUNE 15, 1920	425
INTERFERENCE NOTICES	425
APPLICATIONS UNDER EXAMINATION	426
PATENTS GRANTED	427
REISSUES	564
DESIGNS	565
TRADE-MARKS—REGISTRATION APPLIED FOR	575
TRADE-MARK REGISTRATIONS GRANTED	615
COMMISSIONER'S DECISIONS—	
Kitselman v. Reid, Reid, and Kelley	623
Reid, Reid, and Kelley v. Kitselman	624

Issue of June 15, 1920.

Patents	702	No. 1,343,189 to No. 1,343,890,	inclusive.
Designs	53	No. 55,447 to No. 55,499,	inclusive.
Trade-Marks	203	No. 132,076 to No. 132,278,	inclusive.
Reissues	4	No. 14,882 to No. 14,885,	inclusive.
Total	962		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 29, 1920.

Consolidated Rubber Works, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Quick Tire Service, Inc., of 1790 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered December 28, 1897, No. 31,065, to Consolidated Rubber Works, of 116 Bedford street, Boston, Mass., and a notice of such declaration sent by registered mail to said Consolidated Rubber Works at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Consolidated Rubber Works, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., May 29, 1920.

George Bedford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Louis A. Freedman, of 340 West Eighty-sixth street, New York, N. Y., for patent and patent granted December 12, 1916, No. 1,208,455, to George Bedford, of 2723 Church avenue, Brooklyn, N. Y., and a notice of such declaration sent by registered mail to said George Bedford at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said George Bedford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 1, 1920.

Miller & Miller, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Indianapolis Abattoir Company, Morris and Drover streets, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered February 23, 1892, No. 20,763, to Miller & Miller, Nos. 12 and 14 North Paca street, Baltimore, Md., and a notice of such declaration sent by registered mail to said Miller & Miller at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Miller & Miller, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 7, 1920.

Leo Goldberger, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the International Battery Co., Inc., of 453 Broome street, New York, N. Y., for registration of a trade-mark and trade-mark registered April 25, 1916, No. 109,896, to Leo Goldberger, of 88 Vernon avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Leo Goldberger at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Leo Goldberger, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., June 9, 1920.

The Phelps Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Maans N. Nelin, of 1019 Third avenue, Rockford, Ill., for registration of a trade-mark and trade-mark registered March 12, 1907, No. 61,226, to The Phelps Co., of Meadville, Pa., and a notice of such declaration sent by registered mail to said The Phelps Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Phelps Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

APPLICATIONS UNDER EXAMINATION.

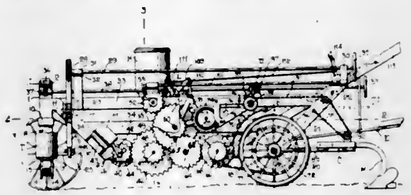
Condition at Close of Business June 5, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 20	Feb. 27	380
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Oct. 4	Jan. 10	915
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	570
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 21	Mar. 29	1,219
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 16	Feb. 24	339
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 4	Mar. 15	465
312	7. Games and Toys; Optics; Photography; Velocipedes	Feb. 9	Mar. 26	805
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 6	May 10	345
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 3	Jan. 7	497
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Jan. 12	Mar. 25	951
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Feb. 2	Feb. 16	698
222	12. Machine Elements	Oct. 20	Apr. 7	1,116
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 13	Apr. 6	1,126
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 20	Feb. 20	611
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 21	Nov. 24	872
111	16. Radiant Energy; Telegraphy; Telephony	Oct. 8	Mar. 12	1,065
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 17	Apr. 26	235
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 31	Dec. 2	922
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 11	Jan. 2	571
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 24	Mar. 13	684
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 4	Apr. 14	399
249	22. Aeronautics; Firearms; Ordnance	Mar. 17	Mar. 24	228
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 22	Mar. 26	607
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Nov. 18	Apr. 7	549
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 13	Apr. 17	265
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 21	Oct. 15	712
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 19	Mar. 31	554
225	28. Internal-Combustion Engines	Jan. 12	Mar. 3	592
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Oct. 15	Apr. 19	645
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Dec. 17	Apr. 17	1,007
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 6	Oct. 24	990
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Oct. 6	Feb. 4	1,168
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 29	Mar. 12	497
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 11	May 14	119
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 28	May 12	436
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 3	Feb. 12	1,141
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 16	Jan. 15	1,223
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 3	Apr. 2	568
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 10	1,058
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 26	Feb. 25	729
125	41. Resilient Tires and Wheels	Oct. 31	Feb. 28	772
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling.	Nov. 29	Jan. 7	1,029
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 12	Mar. 2	839
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Jan. 26	Apr. 1	312
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Dec. 18	Feb. 3	751
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway- Brakes; Wooden Buildings.	Oct. 24	Jan. 3	761
	Oldest new case, Sept. 11; oldest amended, Oct. 15.			
	Total number of applications awaiting action			32,277
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	Feb. 1	2,536
	Designs	Dec. 1	Mar. 11	859
	Labels and Prints	Jan. 2	Feb. 2	1,060

PATENTS

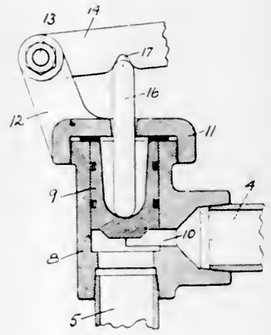
GRANTED JUNE 15, 1920.

1,343,189. GEARING. ANDREW M. ALEXANDER, Nortonville, Ky., assignor of one-half to Emot P. Alexander, Dawson Springs, Ky. Filed Apr. 17, 1918. Serial No. 229,091. 3 Claims. (Cl. 74—58.)



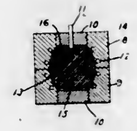
1. In combination with a driving element, a driven shaft operatively connected with the driving element, a pair of gears carried by the driven shaft, a second shaft, a pair of gears rotating with the second shaft and movable in unison longitudinally of said second shaft, one of said last named pair of gears meshing with one of the first named pair of gears when the last named pair of gears is in one position, and a gear mounted for movement toward or from the driven shaft, said last named gear in one position meshing with the second gear of both pairs of gears when the second pair of gears is in a second position.

1,343,190. AUTOMATIC VALVE FOR AIR LIFT-PUMPS. HERBERT T. ABRAMS, Orange, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 27, 1919. Serial No. 285,433. 1 Claim. (Cl. 103—84.)



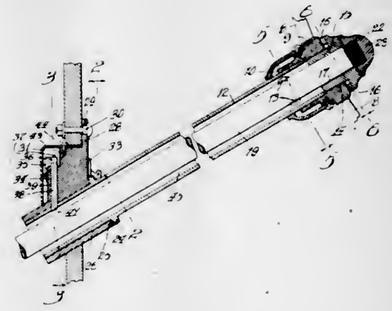
In an air lift pump, a well casing, or lining, an eduction pipe extending from the surface to a point near the bottom of the well, an air supply pipe extending to the lower submerged end within the eduction pipe and adapted to be connected with a source of supply of air pressure, and an automatic regulating valve inserted in the air supply pipe at a point above ground for varying the air pressure in accordance with changes in back pressure in the eduction pipe, said valve comprising a valve casing to which the air supply pipe and the source of supply are connected, a piston valve in said casing adapted to control a port leading to the air supply pipe and means for exerting pressure on said valve to oppose the air pressure beneath the valve, whereby variations of the difference in pressure between the pipe leading to the source and the submerged end of the eduction pipe due to variations of back pressure in the well causes the valve to vary the port leading to the air supply pipe to compensate for said variations of differences in pressure.

1,343,191. METHOD OF MOLDING HOLLOW BODIES. CHESTER T. ALLCUTT, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,262. 6 Claims. (Cl. 18—55.)



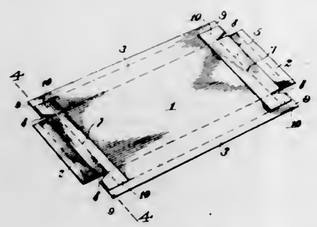
2. A method of molding hollow bodies that comprises forming the body of material impregnated with the binder about a core having a relatively low fusing point, disposing the formed body and its core in a mold, applying heat to fuse the core and harden the binder and applying pressure to the fused core to compact the material forming the body.

1,343,192. LOCK FOR AUTOMOBILE-STEERING DEVICES. JASPER BLACKBURN, Webster Groves, Mo., assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 3, 1919. Serial No. 274,605. 4 Claims. (Cl. 70—90.)



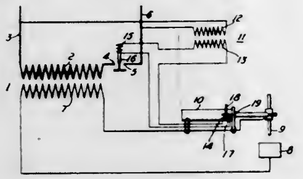
1. A lock for automobile steering devices comprising in combination with a steering mechanism of an automobile, of a rotatable steering post, a rotatable steering column, a socket support for said steering column, a steering wheel mounted on said steering post and connected to the same and the steering column, a lock provided with a locking bolt mounted in the socket adjacent the lower end of the steering column, said locking bolt adapted to engage in openings formed on the steering column, a key for operating said locking bolt and a detachable housing for inclosing said bolt.

1,343,193. BOX-COVERING BLANK. WALTER BUSWELL, Philadelphia, Pa., assignor to Stokes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 2, 1917. Serial No. 194,323. 3 Claims. (Cl. 229—32.)



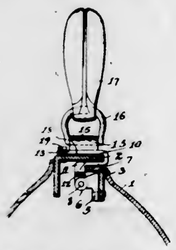
3. As a new article of manufacture, a box shell covering and staying blank having adhesively attached to one face thereof a reinforcing strip having end sections adapted to constitute staying taps for opposite corners of a box shell and an intermediate section adapted to constitute a reinforcement for the edge of the shell extending between the corners stayed by the tabs.

1,343,194. ELECTRIC-ARC-WELDING SYSTEM. ALBERT M. CANDY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,460. 5 Claims. (Cl. 219—8.)



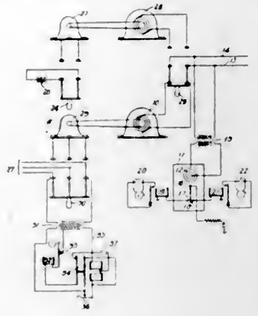
1. An arc welding system comprising a plurality of inductively related windings, a plurality of electrodes connected to one of the windings, means for maintaining zero potential between the electrodes when one of the windings is connected to a source of current and manually-operable means for establishing the potential between the electrodes, occasioned by the winding connected thereto.

1,343,195. DISAPPEARING HANDLE FOR SUIT-CASES, VALISES, AND THE LIKE. HENRY J. CHILTON, Chicago, Ill. Filed Sept. 23, 1915. Serial No. 52,178. 19 Claims. (Cl. 190—58.)



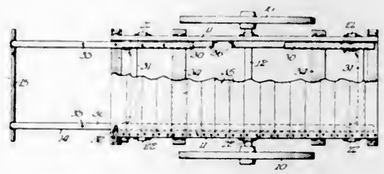
10. In a traveling bag of a size inconvenient to carry otherwise than by a handle, the combination with opposed meeting edges of a stationary support, attached to one of said edges, a handle movably connected to the support and adapted to be swung into and out of the bag, and means for locking the meeting edges together and the handle in inoperative position within the bag.

1,343,196. SIGNALING SYSTEM. ROY D. CONWAY, Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1918. Serial No. 255,175. 5 Claims. (Cl. 177—311.)



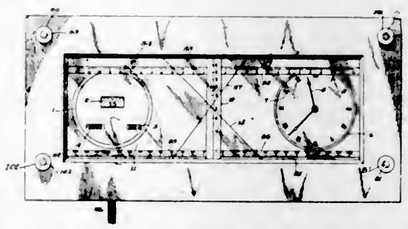
1. A signaling system comprising a power circuit, a second circuit closed during the absence of current in the power circuit and deriving current from the power circuit, a signal in the second circuit actuated upon the presence of current in the power circuit, a third circuit deriving current from the power circuit, a relay in the third circuit serving upon actuation to open the second circuit to prevent further actuation of the signal therein, attendant controlled means governing the initial closure of the third circuit, and a locking circuit for the relay completed upon actuation thereof.

1,343,197. AUTOMOBILE-TRAILER. WILLIAM T. DAUM, Oak Park, Ill. Original application filed July 2, 1917, Serial No. 178,168. Divided and this application filed Jan. 28, 1918. Serial No. 214,067. 4 Claims. (Cl. 280—33.4.)



1. A two-wheeled cart comprising a frame, said frame having cross members spaced apart, a reach slidably mounted between said members, and means for rigidly connecting said frame and reach in adjusted positions, and a transverse handle on said reach.

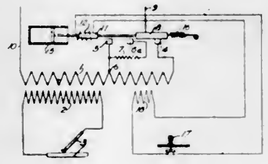
1,343,198. AVERAGE-SPEED METER. CHARLES F. EATON, Jr., New York, N. Y. Filed June 6, 1918. Serial No. 238,472. 10 Claims. (Cl. 235—61.)



5. In an average speedometer, an average speed scale, a flexible cord intersecting said scale, a pair of parallel

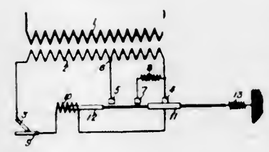
screw shafts, a pair of traveling nuts carried by said shafts connected to said cord, time controlled means for rotating one of said shafts, and distance controlled means for rotating the other of said shafts.

1,343,199. ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1919. Serial No. 322,281. 13 Claims. (Cl. 219—15.)



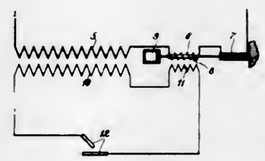
1. An electric-arc welding system comprising a transformer having primary and secondary windings, a plurality of electrodes connected to the secondary winding, means for connecting the primary winding to a source of alternating-current, and means for changing the primary connections to vary the number of turns of the winding included in the primary circuit.

1,343,200. ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1919. Serial No. 322,282. 8 Claims. (Cl. 219—15.)



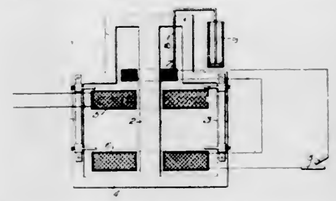
1. An alternating-current arc welding system comprising means for connecting the electrodes to a source of relatively high voltage and means for automatically reducing the voltage to a desirable operating value.

1,343,201. ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1919. Serial No. 322,283. 8 Claims. (Cl. 219—15.)



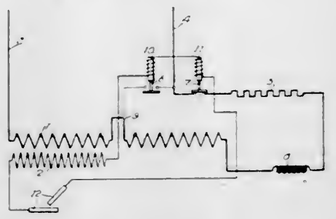
1. An electric-arc welding system comprising a transformer having a primary winding, a resistor connected in series with the winding and a secondary winding connected to the electrodes.

1,343,202. ELECTRIC-ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, and HANS FAHNOE, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1919. Serial No. 322,301. 7 Claims. (Cl. 219—15.)



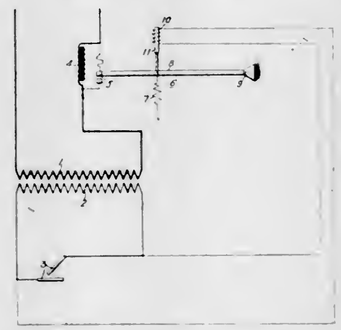
1. An electric-arc welding system comprising a transformer having primary and secondary windings, a plurality of electrodes connected to the secondary winding and an auxiliary winding connected in series with one of the windings.

1,343,203. ELECTRIC-ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,772. 6 Claims. (Cl. 219—15.)



1. An arc welding system comprising a transformer having primary and secondary windings, a plurality of electrodes connected to the secondary winding, means for varying the number of turns of the primary winding and means for varying the impedance of the primary circuit.

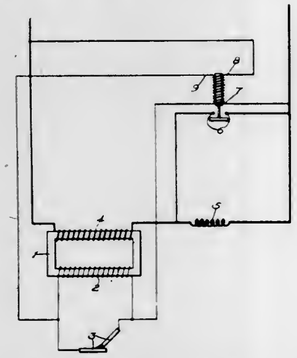
1,343,204. ELECTRIC-ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,773. 7 Claims. (Cl. 219—15.)



1. An arc welding system comprising a transformer having primary and secondary winding, a plurality of elec-

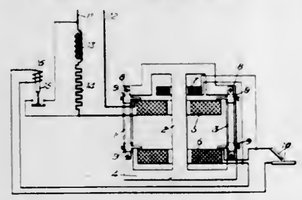
trodes connected to the secondary winding, an impedance connected in series with the primary winding, and means for shunting the impedance from the primary circuit when current flows in the secondary windings, said means including a switch connected in parallel relation to the impedance and a switch-actuating coil connected in parallel relation to the secondary winding.

1,343,205. ALTERNATING-CURRENT WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, and HANS FAHNOE, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,798. 6 Claims. (Cl. 219—15.)



1. An arc welding system comprising a transformer having primary and secondary windings, a plurality of electrodes connected to the secondary winding, an impedance connected to the primary winding and means for shunting the impedance from the primary circuit, said means including a switch and a plurality of switch-actuating coils.

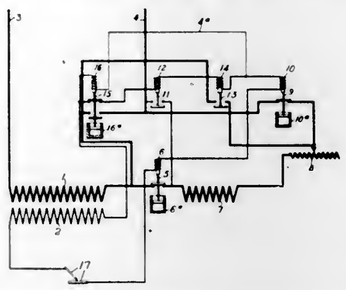
1,343,206. ELECTRIC-ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 11, 1919. Serial No. 330,004. 7 Claims. (Cl. 219—15.)



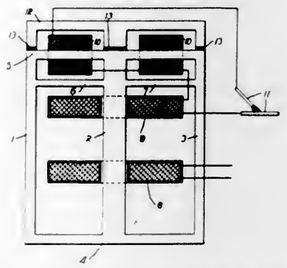
1. An arc welding system comprising a transformer having primary and secondary windings, a plurality of electrodes connected to the secondary windings, means for automatically increasing the voltage between the electrodes during the period of establishing an arc and means for establishing a low open-circuit voltage between the electrodes, said means including an impedance device connected in series with the primary winding, and means for shunting the impedance device from the primary circuit controlled by the current in the secondary winding.

1,343,207. ELECTRIC-ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 24, 1919. Serial No. 340,395. 8 Claims. (Cl. 219—15.)

1. An arc welding system comprising a transformer having primary and secondary windings, a plurality of electrodes connected to the secondary winding, an auxiliary winding, means for connecting the auxiliary winding in series with the primary winding under open-circuit conditions, and means for connecting the auxiliary winding in opposition to the primary winding when the electrodes are engaged.

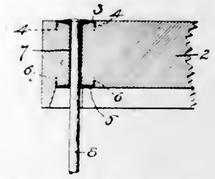


1,343,208. ELECTRIC-ARC-WELDING SYSTEM. HANS FAHNOE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1919. Serial No. 322,537. 5 Claims. (Cl. 219—15.)



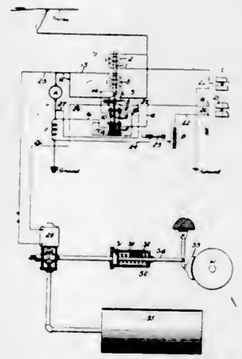
1. An arc welding system comprising a transformer including a core member, primary and secondary windings mounted thereon, a plurality of auxiliary windings so mounted upon the core member and connected to the secondary winding as to be automatically excluded from the main magnetic circuit when current is flowing in the secondary winding and a plurality of electrodes connected in the secondary circuit.

1,343,209. CORNER CONNECTION FOR CABINETS. HERBERT J. GWYER, Yonkers, N. Y. Filed Dec. 2, 1919. Serial No. 341,916. 4 Claims. (Cl. 20—92.)



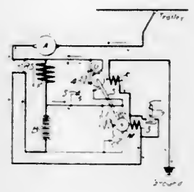
1. In a frame of the character described, two framing pieces meeting at an angle, means for connecting said framing pieces at the meeting line comprising two complementary metallic locking pieces arranged on the top and bottom of the frame and each partially overlapping each of said framing pieces at the meeting angle, each locking piece having a hole therein, a passage through the corner of the frame at the meeting line registering with said holes in the locking pieces, with means on each of said locking pieces to be driven into the material of said framing pieces to secure the parts together, and a tube passing through said locking pieces and upset outside of the same.

1,343,210. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Sept. 10, 1914, Serial No. 860,994. Patent No. 1,264,299, dated Apr. 30, 1918. Divided and this application filed Apr. 4, 1918. Serial No. 226,623. 11 Claims. (Cl. 303—20.)



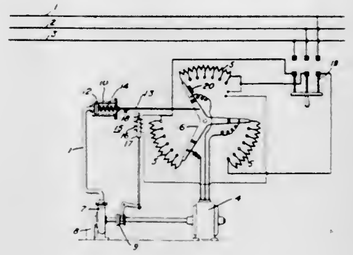
1. In a control system, the combination with a supply circuit, and a dynamo-electric machine adapted to be operated therefrom, of a fluid-pressure braking system, and means, dependent upon a predetermined variation of supply-circuit and of machine-circuit voltage, for automatically effecting the operation of said braking system.

1,343,211. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Oct. 24, 1916, Serial No. 127,381. Divided and this application filed Oct. 16, 1918. Serial No. 258,443. 6 Claims. (Cl. 172—179.)



2. In a system of control, the combination with a supply circuit and a main dynamo-electric machine having an armature and a field winding, of a plurality of auxiliary mechanically-connected armature windings respectively acting as driving means and as an exciter for said main field winding, and means connected in series-circuit relation with the main armature and field winding between the supply-circuit conductors for supplying energy to said driving armature, the latter having field windings respectively energized by the last-named means and the main-machine current.

1,343,212. STARTING DEVICE FOR ELECTRIC MOTORS. GEORGE W. HUEY, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 8, 1917. Serial No. 153,298. 8 Claims. (Cl. 172—288.)



1. In a motor-control system, the combination with an electric motor and a resistor in circuit therewith, of means for controlling said resistor in accordance with the speed of said motor, said means comprising a movable member and a fluid-pressure device for controlling said member, and means for rendering said controlling means ineffective when said motor attains a predetermined speed.

1,343,213. HOG-HOLDER. ALFRED B. JOHNSON, Blooming Grove, and VAN NESS GREEN, Edgerton, Wis. Filed Oct. 8, 1919. Serial No. 329,337. 2 Claims. (Cl. 119—153.)

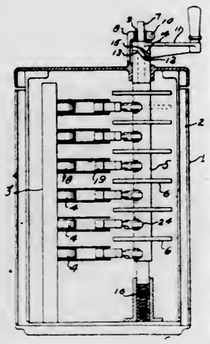


1. A hog holder comprising a casing, an operating rod slidable in said casing, a looped snare projecting from one end of said casing and having both ends thereof attached to said operating rod, a plug within the inner end of said casing through which said rod is adapted to slide, ratchet teeth upon said rod, said casing and plug having alined openings registering with said ratchet teeth, a lever pivoted upon said casing, and a pin carried by said lever extending through said casing and plug openings for engagement with said ratchet teeth to hold the rod in projected position and for retaining the plug within the casing.

1,343,214. CONTROLLER. JESSE R. LANGLEY, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1917. Serial No. 151,942. 13 Claims. (Cl. 200—17.)

1. In a controller, the combination with a plurality of coacting switch members, of a rotatable cam for actuating

one of said members, and an operating handle, the rotative movement of which is effective to control the shifting of



said cam into and out of operative relation to said switch member.

1,343,215. TUBE-SCRAPING APPARATUS. LEO F. LECHTENBERG, Quincy, Ill., assignor, by mesne assignments, to Rowsey Gasoline Process Company, Humboldt, Kans., a Corporation of Kansas. Filed May 7, 1917. Serial No. 166,833. 2 Claims. (Cl. 83—64.)



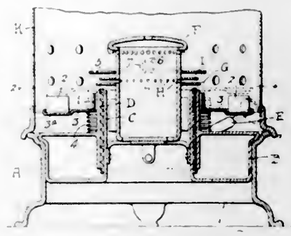
2. In a tube scraping device, a perforated scraper adapted to engage the inner face of a tube, a scraper cleaner provided with projecting portions adapted to extend through the openings in the scraper to remove accumulations of material therefrom, and means for reciprocating said scraper to scrape material from the inner face of the tube, said scraper cleaner being located at one end of the path of movement of said scraper.

1,343,216. FINISHED SURFACE FOR ARTICLES OF MANUFACTURE. JOHN R. MCCLAIN, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Mar. 13, 1918, Serial No. 222,056. Divided and this application filed Oct. 19, 1918. Serial No. 258,900. 1 Claim. (Cl. 20—89.)



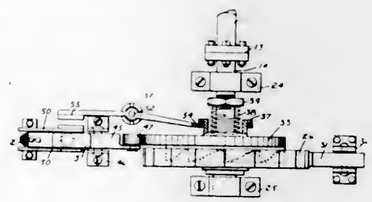
An article of manufacture comprising a body portion of wood or similar material and a relatively thin surfacing material consisting of fibrous material and a phenolic condensation product serving to bind the fibers of the material together and to unite the adjacent faces of the body portion and the surfacing material.

1,343,217. SAFETY DEVICE FOR OIL HEATERS AND LAMPS. JOHN LAZIER MACDOWALL, Perth Amboy, and WILLIAM KIPP BASSFORD, Metuchen, N. J. Filed Aug. 9, 1919. Serial No. 316,407. 7 Claims. (Cl. 67—77.)



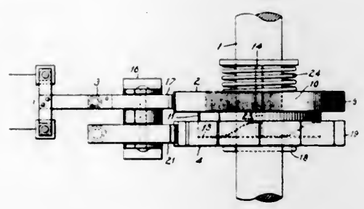
1. In a device of the character described, the combination with a wick tube and a flame spreader above the same, of an extinguishing ring surrounding the wick tube and normally below the frame thereof, said extinguishing ring being vertically movable on said wick tube, means arranged at diametrically opposite points for holding said extinguishing ring in normal position, said holding means being released to allow the extinguishing ring to rise on said tube when the burner is abnormally jarred or tipped over, a cap ring adjustably secured to the flame spreader above the flame, and means for actuating said extinguishing ring into engagement with said cap ring when the said holding means is released.

1,343,218. CONTROL APPARATUS. PAUL L. MARDIS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 6, 1917. Serial No. 178,918. 13 Claims. (Cl. 200—18.)



12. The combination with a pair of contact members and a rotatable plane cam for closing the same, of a blow-out coil for said members and means controlled by said coil for moving said cam out of its plane.

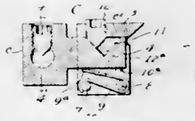
1,343,219. CONTROL APPARATUS. PAUL L. MARDIS, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1916. Serial No. 114,163. Renewed Aug. 3, 1918. Serial No. 248,227. 17 Claims. (Cl. 200—17.)



1. The combination with a shaft, of a cam slidably mounted on said shaft and actuated thereby, the cam

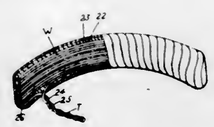
surface having a depressed portion and a cylindrical surface having the same radius as said depressed portion, a pivotally-mounted switch having an arm for engaging said cam surface, and means for causing said switch arm to engage said cylindrical surface for a reverse direction of rotation.

1,343,220. HOLDING DEVICE FOR PRINTING-PLATES. JOHN C. MAST, Glenarm, Md., assignor to F. X. Hooper Company Inc., Glenarm, Md., a Corporation of Maryland. Filed July 30, 1919. Serial No. 314,329. 4 Claims. (Cl. 101—389.)



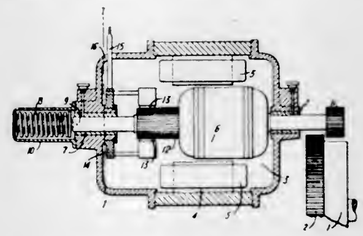
4. A device for clamping printing plates to grooved bases comprising a body having a part adapted to fit the groove and having an integral guide bar adapted to extend longitudinally in the groove, said bar having an inclined surface on its upper side, a clamping member slidable on said bar, an adjusting screw in said member adapted to engage said surface, and means for yieldingly pressing said member downwardly against the bar.

1,343,221. DYNAMO-ELECTRIC MACHINE. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1918. Serial No. 210,522. 3 Claims. (Cl. 172—36.)



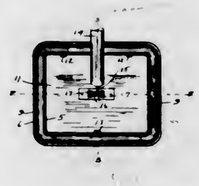
1. In an electrical coil, the combination with a winding of insulated wire and a layer of insulating material therefor, of a flexible terminal projecting from the insulating material, said terminal comprising one end of said wire bent back upon itself and twisted about the adjacent portion for the greater part of the length of the bent-back portion, the free end of said bent-back portion being laid adjacent to said coil on said layer of insulating material, and a second layer of insulating material covering said first layer and the free end of the wire.

1,343,222. STARTING SYSTEM FOR AUTOMOBILES. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 30, 1915, Serial No. 37,247. Renewed Dec. 2, 1918. Serial No. 265,048. 5 Claims. (Cl. 290—38.)



1. In a starting system, the combination with an electric motor having a longitudinally shiftable armature and angularly shiftable commutator brushes, of means for simultaneously controlling the motor circuit to shift said armature and shifting said brushes angularly.

1,343,223. FLOOR-WAXING DEVICE. EMIL E. MOLINE, Sioux City, Iowa. Filed July 19, 1919. Serial No. 312,061. 3 Claims. (Cl. 15—51.)

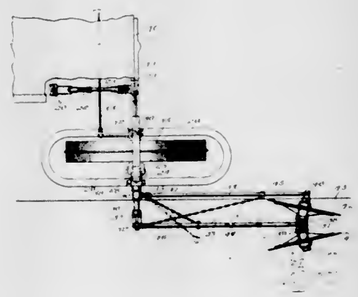


1. A floor waxing device embodying a sheet-metal hollow body, a pervious sheet across the bottom thereof, a presser plate fitting freely within the body, and outwardly-yieldable ears on the inner side of the body, normally engaging with their ends the upper side of the plate.

1,343,224. RUBBER VULCANIZATION AND THE PRODUCT THEREOF. STUART BENTON MOLONY, Wellesley Hills, Mass., assignor to Michigan Chemical Company, a Corporation of Michigan. Filed June 17, 1919. Serial No. 304,838. 12 Claims. (Cl. 18—53.)

2. The process of accelerating the vulcanization of rubber which consists in vulcanizing the rubber in the presence of a compound of the amin bases produced from beet sugar residue combined with carbon disulfid.

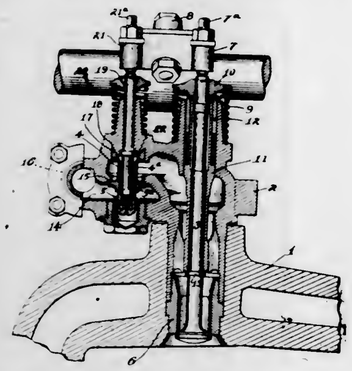
1,343,225. STEERING DEVICE FOR VEHICLES. CARL W. MOTT, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Sept. 14, 1914. Serial No. 861,546. 19 Claims. (Cl. 97—81.)



1. In a steering device for vehicles, adjacently arranged furrow pilot members arranged at an angle to the line of draft and to each other, one of which because of said angularity is capable of returning itself to a furrow if effectively removed therefrom, and another of which tends when in the furrow to press said first member against the side of the furrow.

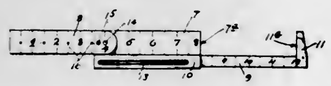
13. A furrow steering device for tractors, having a plurality of rotatable furrow pilot members which are forwardly converging toward a plane substantially parallel to the land side of the furrow, one of which normally engages the side wall only of a furrow, another of which normally engages the bottom only of the furrow, and means for operatively connecting said members to the tractor.

1,343,226. STARTING-VALVE FOR COMBUSTION-ENGINES. JAKOB MÜLLER, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 18, 1917. Serial No. 207,768. 9 Claims. (Cl. 60—16.)



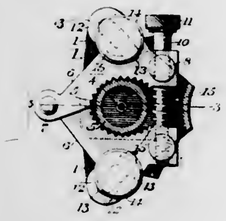
1. An air starting valve structure for internal combustion engines comprising main and auxiliary air valves, one opening in the direction of the air flow and the other against it and a single lever operating both valves.

1,343,227. CALIPER-RULE. HERMAN J. OSTDIEK, Minneapolis, Minn. Filed Mar. 29, 1919. Serial No. 286,096. 3 Claims. (Cl. 33—143.)



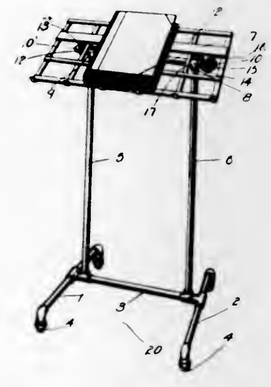
1. In a tool of the kind described, the combination with a main body section formed from a flat piece of metal and bent to form a rectangular guide, of a sliding section mounted in said folded guide and provided at its extended end with an offset caliper head, coöperating with the adjacent end of the body section, one side of said guide-fold having a longitudinally extended outpressed bead, and the said sliding section having a boss working in said bead, but coöperating therewith to hold said sliding section against accidental separation from said body section.

1,343,228. COUPLING FOR FAUCETS, SPIGOTS, OR THE LIKE WITH FLUID-RECEIVERS, HOSE, OR OTHER CONDUCTORS OF FLUIDS. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 14, 1919. Serial No. 304,266. 6 Claims. (Cl. 285—189.)



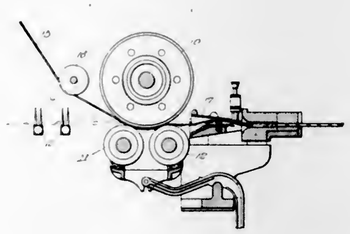
2. In a coupling for a faucet, spigot, or other fluid supply member, jaws attachable to said member, means for closing said jaws and resilient means for opening the same, and an abutment on a conductor for said fluid from said member, and means on said jaws and abutment for connecting the latter with the former.

1,343,229. STAND. EDWARD F. PHILBROOK, Jr., Kansas City, Mo. Filed Aug. 25, 1919. Serial No. 319,804. 3 Claims. (Cl. 45—57.)



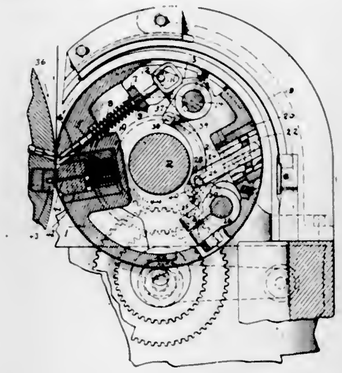
1. In a stand, a base, uprights extending from said base, fixed tubular bearings on said uprights, a tubular shaft in said bearings, flanges on the respective ends of said shaft, a rod extending through the tubular shaft and having a head on one end and a threaded nut on the other, a book support, flat bracket arms on the support and sleeved on the rod, said arms bearing against the flanges on the tubular shaft, and a tension device between one of the arms and the threaded nut.

1,343,230. SPINNING-MACHINE. GEORGE L. RICE, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,706. 16 Claims. (Cl. 28—21.)



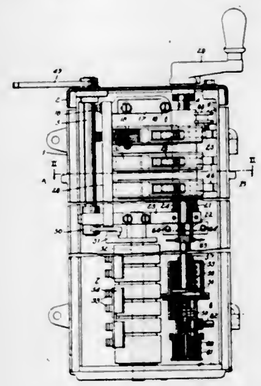
1. A former for twine machines having means for guiding a paper ribbon and non-twisted fiber, and means for pressing the fiber and paper into contact with each other.

1,343,231. COLLECTING AND STAPLING MECHANISM. EDWARD P. SHELDON, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Aug. 16, 1919. Serial No. 317,877. 27 Claims. (Cl. 270—53.)



3. The combination of a rotary carrier, a sheet collecting mechanism mounted on the carrier, mechanism for securing together the plies of a collected product mounted on the carrier, and means for actuating the collecting and securing mechanisms.

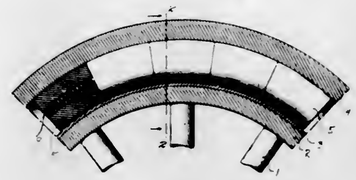
1,343,232. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 19, 1917. Serial No. 149,487. 15 Claims. (Cl. 200—17.)



2. In a controller, the combination with a plurality of cam-operated switches, and an operating member therefor, of means for longitudinally actuating said member to effect the substantially simultaneous opening of all said switches.

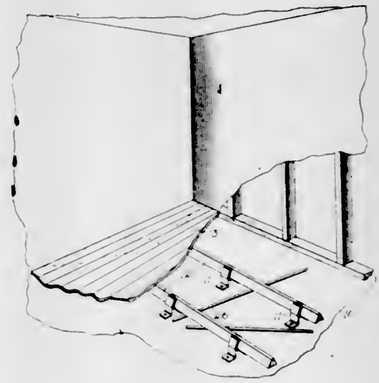
1,343,233. RESILIENT TIRE AND FILLING THEREFOR. JACOB STANDER, Brooklyn, N. Y. Filed May 12, 1919. Serial No. 296,287. 4 Claims. (Cl. 152—5.)

4. In combination, a cover adapted to be held to the felly of a wheel, and a resilient filling for the said cover, said filling comprising a series of bored sections of normal cylindrical shape and made of soft resilient material, said sections having their adjacent faces tightly in contact with each other and having their peripheral parts conforming to the shape of the said cover so as to be elongated and subjected to tension, the said sections having their inner parts in conformity with the said cover so as to be compressed, and coil springs located in the



bores of the said sections which communicate with each other throughout the said tire, the said coil springs being substantially incompressible in a direction at right angles to the axes of the said bores, the said material being capable of resisting shearing stresses.

1,343,234. FLOOR CONSTRUCTION. CHARLES WHITNEY STEVENS, Chicago, Ill., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 17, 1917. Serial No. 155,427. 10 Claims. (Cl. 20—6.)

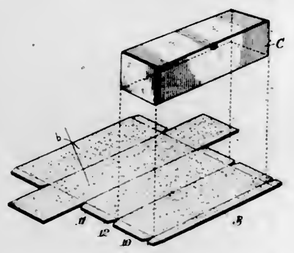


1. A floor construction comprising a lower floor, a plurality of cushioning supports bearing on said lower floor, nailing strips supported by said cushioning supports and having their upper faces exposed and lying in a plane above said supports, and a finishing floor secured to said nailing strips, each of said supports comprising a portion overhanging a portion of the nailing strip for holding it down whereby said finishing floor will be restricted to a maximum movement measured by the compression of the cushioning supports.

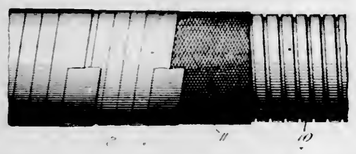
1,343,235. AIR OR MOISTURE PROOF PACKAGE. JOHN STOCDELL STOKES, Moorestown, N. J., assignor to Stokes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 25, 1918. Serial No. 219,008. 4 Claims. (Cl. 229—5.)

1. An air or moisture-proof package of the sealed wrapped type comprising a commodity container, and a wrapper enveloping the container and adhesively secured to exterior faces thereof, said wrapper being of pliable readily-foldable paper of ply formation, said plies being united by a paraffin layer, said ply formation including

a ply having an outer face impermeable to the paraffin and capable of carrying an adhesive coating, whereby wrapping may be provided with an adhesively coated blank, the construction being such that the wrapper constitutes a complete seal for the package excluding air and moisture.

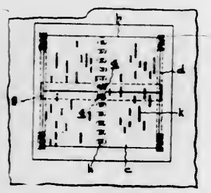


1,343,236. TUBING. LOUIS CARROLL STUKENBORG, Chicago, Ill., assignor to Frederick W. Stukenborg, Chicago, Ill. Filed Apr. 29, 1918. Serial No. 229,689. 7 Claims. (Cl. 137—75.)



1. A tubing for the purpose set forth, comprising an inner flexible foundation layer, an intermediate layer surrounding but not adhered to the foundation layer, and an external impervious layer applied over and adhered to the intermediate layer.

1,343,237. MECHANICAL PIANO-PLAYER. CHARLES HAVELOCK TAYLOR, Toronto, Ontario, Canada. Filed Sept. 23, 1916. Serial No. 121,787. 1 Claim. (Cl. 84—161.)



In a player piano the combination with a music sheet having music note perforations therein and at its middle a longitudinal series of uniformly spaced tracker perforations distinct from the music note perforations, of a tracker bar having a pair of slots at its middle extending transversely to the main length of the tracker bar the space between the slots being less than the width of each of the tracker perforations and the length of the slots being greater than each of the spaces between the tracker perforations for the purpose of effecting constant communication between the tracker slots and tracker perforations and thereby constantly controlling travel of the music sheet.

1,343,238. UNITARY YARN DEVICE AND METHOD OF MAKING SAME. RUSSELL E. TAYLOR, New York, N. Y. Filed Jan. 17, 1919. Serial No. 271,585. 1 Claim. (Cl. 242—159.)



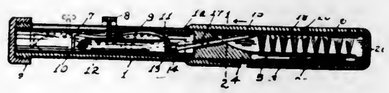
The combination with a continuous length of yarn built up progressively in additive sections in an axial direction forming a compact body portion and an extending end portion, of a generally cylindrical container fitting said body portion and leaving said end portion protruding, a closed end of said container, and an opposite separable part inclosing said extending end portion and removable therefrom to expose said end portion to view on the sides and end for matching colors without disturbing the yarn.

1,343,239. ATTACHMENT FOR BARRETTES. RENA W. THAYER, Springfield, Mass. Filed June 5, 1919. Serial No. 302,014. 2 Claims. (Cl. 132—22.)
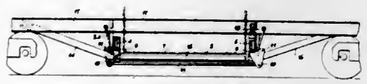


1. The combination with a barrette having a tongue; of a lock securing attachment carried by the tongue and comprising an elongated member having laterally offset obliquely disposed facewise extending apertured ends for the reception of the tongue.

1,343,240. POCKET TOOTHBRUSH AND DENTIFRICE HOLDER. CHARLES EARLE TOWNSEND, Norfolk, Va. Filed Dec. 29, 1919. Serial No. 348,052. 2 Claims. (Cl. 15—52.)



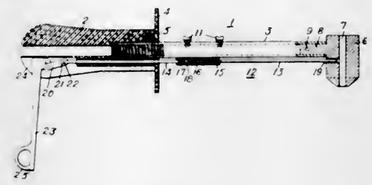
1. A device of the class described and in combination with a tooth brush, of a hollow handle therefor, a compressible tube secured therein and adapted to be removed and replaced at will, a flat tube extension screwed to the outlet of the said compressible tube, and a curved leaf spring operative from the outside of the hollow handle and adapted to compress the compressible tube to eject its contents over the bristles of the brush.

1,343,241. SUSPENSION OF LIQUID-CONTAINERS ON RAILWAY-VEHICLES. KALMAN VON KANDO, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1914. Serial No. 876,379. 13 Claims. (Cl. 105—358.)



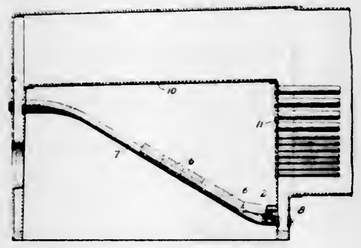
13. In a railway vehicle, the combination with a plurality of wheels, a frame, and a container, the lowest point on either the frame or the container being located above the lowest point on the periphery of the wheels, of means for suspending the container from said frame to prevent the transmission of any running strains through the container or material changes in the position of the center of gravity of the container.

1,343,242. WELDING-TOOL. RICHARD E. B. WAKEFIELD, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 335,999. 11 Claims. (Cl. 219—8.)



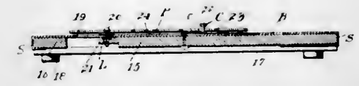
1. A welding tool comprising an electrode holder, a supporting member therefor, a handle for the supporting member and means for engaging an electrode disposed in the holder, said means including a gripping member and means, pivotally secured to the handle, for actuating the gripping member and for maintaining it in position.

1,343,243. SPACER-BLOCK FOR REFRACTORY ARCHES. ALFRED H. WILLETT, West New York, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1919. Serial No. 292,379. 7 Claims. (Cl. 110—87.)



1. In brick arch constructions for locomotive fire boxes provided with arch tubes and a flue sheet, blocks adapted to space the arch away from the flue sheet, each of said blocks having a curved under or tube engaging surface and a similarly curved upper surface, the tube engaging surface being adapted to engage either a tube or the upper surface of another block, and the upper surface being adapted to act as a supporting surface for bricks of the arch.

1,343,244. DEVICE FOR TEACHING PENMANSHIP. JACOB D. W. WILLIAMS, Tabor, N. C. Filed Mar. 13, 1920. Serial No. 365,657. 4 Claims. (Cl. 35—8.)



1. A device of the character described comprising, a board having a slot therein, a lever pivoted on the board and arranged on its under side, a projection working within said slot and operatively connected to said lever, a crank journaled in the board, a handle formed on said crank, and a transparent perforated plate arranged upon the upper side of the board and connected to said pin and crank in such manner as to effect an ovate movement of the plate when said crank is rotated.

1,343,245. PEN AND PENCIL ATTACHMENT. LOUIS S. ZEBROCK, Jr., Hastings, N. Y. Filed Nov. 7, 1919. Serial No. 336,253. 2 Claims. (Cl. 120—103.)



1. A pen or pencil attachment comprising a plate having one edge curved to form a cylindrical portion, the end of the cylindrical portion engaging the upper surface of the plate, and a second plate hingedly connected to the first mentioned plate, the edge of said second mentioned plate being curved upwardly and inwardly.

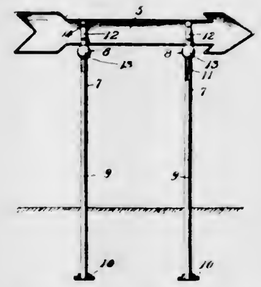
1,343,246. CLUSTER-BACK FOR JEWELRY. OTTO P. BAILER, Memphis, Tenn. Filed May 1, 1919. Serial No. 293,926. 7 Claims. (Cl. 63—28.)



1. In gem settings of the type employing separable cluster tops and backings, a cluster-back comprising a reticulated basket and an integral annular rim at its upper end, and one or more lugs projecting upwardly from said rim.

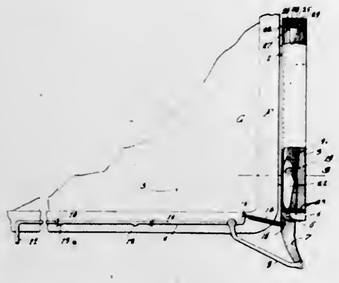
5. In gem settings, a cluster back for cluster settings comprising a cone-shaped openwork basket of metal, the piercings representing facets of a precious stone, and insertions in said piercings further simulating the effects of facets of such stone.

1,343,247. INTERCHANGEABLE ROAD-SIGN. ADOLPH WALTER BUSS, Quincy, Ill. Filed Nov. 3, 1919. Serial No. 335,457. 1 Claim. (Cl. 40—125.)



A device of the character described, comprising spaced lower supporting sections having pockets in their upper portions, a sign, upper sections secured in spaced relation to said sign, said upper sections having portions engageable in the pockets in the upper portions of the supporting sections for supporting the sign in displaying position and preventing lateral movement of the same and also to permit of removal or reversing of the sign when desired.

1,343,248. AUTOMOBILE-SIGNAL. EDWIN CURTIS CLARK, Delano, Calif. Filed Apr. 4, 1919. Serial No. 287,443. 3 Claims. (Cl. 40—67.)



1. In an automobile signal, the combination with an upright casing adapted to be attached to a windshield, the casing being open at its outer side and slotted in its bottom, a pair of ears extending from the bottom adjacent said slot, a signal adapted to be housed within said casing and having an arm depending through said slot, and a pivot pin through the arm and ears; of a slide rod mounted in guides along the windshield and having a handle, stops on the rod adapted for engagement with said guides selectively, a contractile spring connecting the outer end of said rod with said arm near the pivot of the latter, and a link pivotally connecting the rod with the arm at the lower end of the latter.

1,343,249. TREATING ORES. GEORGE L. COLLORD, Pittsburgh, Pa. Filed May 9, 1919. Serial No. 296,030. 2 Claims. (Cl. 75—73.)

1. The method herein described of treating moist ores, which consists in adding to the ores a liquid adapted to spread through the mass of ore and form a thin film around the particles or small bodies of ore, and having a vaporizing temperature higher than that of the contained moisture, and reducing the percentage of moisture.

1,343,250. TREATING ORES. GEORGE L. COLLORD, Pittsburgh, Pa. Filed May 9, 1919. Serial No. 296,031. 1 Claim. (Cl. 75—73.)

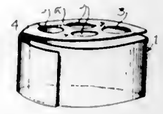
The method herein described of treating moist ore, which consists in reducing the percentage of moisture in the ore, and mixing with the ore thus treated an oleaginous material adapted to cause an agglomeration of the fine particles of the ore.

1,343,251. CABLE-SPLICE. JAMES F. DILLON, Crown City, Ohio, assignor to Newton K. Bowman, North Lawrence, Ohio. Filed Apr. 20, 1918. Serial No. 229,719. Renewed Apr. 22, 1920. Serial No. 375,909. 3 Claims. (Cl. 173—263.)



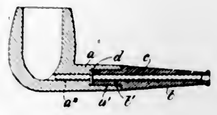
1. A cable splice comprising a single metallic strip bent to form an open ring, the end edges of the strip being oblique and parallel to each other and being formed with coacting notches adapted when the strip is bent round a cable to register with each other, and a key adapted to be inserted in said notches to interlock the ends of the strip.

1,343,252. ICE-CREAM-CONE-HOLDER INSERT FOR BAGS. SAMUEL J. DOWNING and FORREST A. SUTHERLAND, Millinocket, Me. Filed Aug. 4, 1919. Serial No. 315,202. 4 Claims. (Cl. 229—6.)



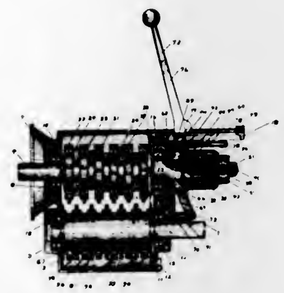
1. An ice cream cone insert support for paper bags comprising an opening band of suitable material and a circular piece having cone receiving openings, said piece being bendable over to engage one of the edges of the band.

1,343,253. TOBACCO-PIPE, CIGAR-HOLDER, AND THE LIKE. ALFRED DUNHILL, London, and THOMAS GEORGE MANDEVILLE, Arnold, England. Filed Oct. 14, 1918. Serial No. 258,053½. 5 Claims. (Cl. 131—12.)



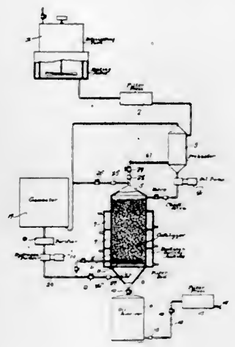
4. In a tobacco pipe, cigar holder or cigarette holder, a stem portion, a recess in the end of said stem, a mouthpiece having a reduced portion at one end adapted to fit into the recess in the stem portion, a tube extending through said mouth piece and stem portion, an annular stamped up enlargement formed on said tube intermediate its ends adapted to be engaged between the bottom of the recess in the stem portion and the reduced end of the mouthpiece.

1,343,254. GEARLESS VARIABLE-SPEED TRANSMISSION. WILLIAM DENN, Elk, Wyo. Filed July 1, 1918. Serial No. 242,746. 16 Claims. (Cl. 74—53.)



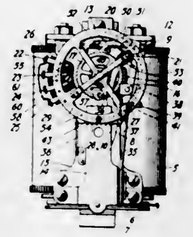
1. In a device of the class described, the combination with a drive shaft, of a transmission shaft, adjustable eccentric means on the drive shaft, a series of collars loosely mounted on the transmission shaft, an arm connecting each collar with the adjustable eccentric means, for the purpose of reciprocating said collar when the drive shaft is rotated, a slidable shoe tapering outwardly toward each end, and a member carried by said collar adapted to engage either end of said shoe, to press the latter into locking engagement with the transmission shaft on a forward or reverse movement of said collar

1,343,255. PROCESS OF TREATING FATTY OILS. CARLETON ELLIS, Montclair, N. J. Filed Dec. 17, 1915. Serial No. 67,452. 6 Claims. (Cl. 87—12.)



1. The process of hardening oils of a fatty nature containing unsaturated components, which comprises bringing the oil into contact with a stationary catalytic agent containing an amount of active catalytic substance materially greater than one per cent. of the weight of oil which would be in contact with the catalyzer at any given time, in the presence of a counter current of hydrogen while maintaining such a pressure and temperature that no material amount of the metal of the said catalyzer can remain combined with fatty acid contained in said oil and in cooling the oily material below the point where objectionable side reactions occur.

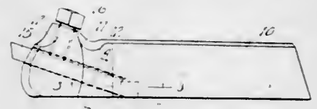
1,343,256. SELECTIVELY-OPERATED CIRCUIT-CONTROLLING DEVICE. JOSEPH C. FIELD, Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 18, 1916. Serial No. 98,384. 35 Claims. (Cl. 177—343.)



1. In a selectively operated circuit controlling device, a step-by-step element, an actuating pawl therefor, a polarized electromagnet, and means responsive to succeeding impulses of alternating current through said electromagnet and coöperating with and causing said pawl to advance said step-by-step element one complete step in response to each half cycle of alternating current through the electromagnet.

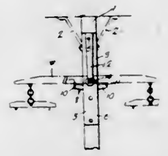
1,343,257. TOOL-HOLDER. JOSEPH C. FLETCHER, Chicago, Ill., assignor to Armstrong Bros. Tool Co., Chicago, Ill., a Corporation of Illinois. Filed July 17, 1919. Serial No. 311,563. 5 Claims. (Cl. 29—100.)

1. In a tool holder, a shank, an enlarged head on the end of said shank, said enlarged head having a substantially square cutter socket extending therethrough and a cylindrical hole being formed in the bottom of said shank



extending upwardly and communicating with the rear end of said socket.

1,343,258. CULTIVATOR-TONGUE. IVA A. FRANKLIN and SAM E. MANGUM, Moody, Tex. Filed Aug. 30, 1919. Serial No. 320,856. 1 Claim. (Cl. 21—36.)

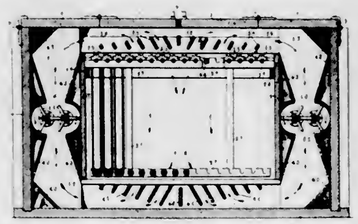


The combination with stub tongue of a cultivator, of a draft tongue plate fixably connected to opposed faces of the draft tongue and extending along and pivotally connected to opposed faces of the stub tongue, a guide plate fastened upon the stub tongue and flush with one face thereof, arcuate guide wings extending in opposite directions from said plate, stops upon the outer ends of the wings, one of the plates of the draft tongue being movable along the guide plate and wings and against the stops during the swinging of the draft tongue relative to the stub tongue, there being an opening within the guide plate and within the meeting ends of the tongues for the reception of a bolt to hold the tongues against relative movement, and means for connecting a whiffle-tree to the stub tongue, said means being connected to and movable with the plates of the draft tongue.

1,343,259. WOOD AND METAL POLISH. JACK FRIEDMAN, New York, N. Y. Filed July 17, 1919. Serial No. 311,630. 2 Claims. (Cl. 134—24.)

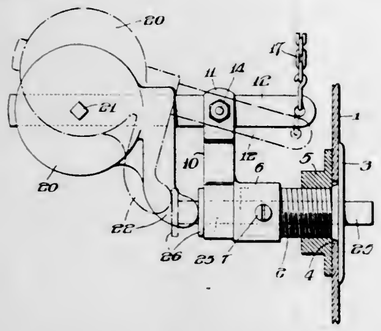
2. A composition for use as a polish for wood and metal, consisting of two parts vinegar, four parts raw linseed-oil, four parts water and three parts mineral oil.

1,343,260. DYEING-MACHINE. WILLIAM J. GOING, Amsterdam, N. Y., assignor, by mesne assignments, to The Klauder-Weldon Dyeing Machine Company, Jenkintown, Pa., a Corporation of Pennsylvania. Filed May 8, 1916. Serial No. 96,099. 17 Claims. (Cl. 8—19.)



12. In a yarn treating machine, in combintion, a vat, a support for plurality of yarn sticks removable from said vat, and current deflectors removable with said support.

1,343,261. SAFETY DEVICE FOR OPERATING FLUSH-TANK VALVES. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed Oct. 21, 1918. Serial No. 259,095. 5 Claims. (Cl. 4—5.)



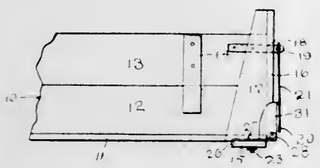
1. In combination, a wall, a bracket supported in rear of said wall, said bracket having an opening extending through a portion thereof, an opening through said wall, a slidable bar situated in said opening and projecting beyond the front of the said wall, a lever pivoted upon said bracket and means having connection with said lever and contacting with the rear end of said bar whereby sliding movements of the latter cause pivotal movements of said lever.

1,343,262. TIE-PLATE. CLAYFORD T. GRIMM, Adrian, W. Va. Filed Apr. 2, 1920. Serial No. 370,804. 3 Claims. (Cl. 238—61.)



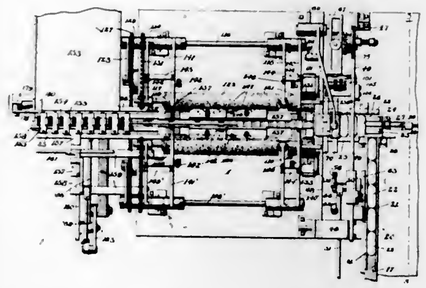
2. A clamp plate for use with a metal tie consisting of a single piece having an upturned jaw a downturned prong and an integral lug adapted to receive a fastening means for securing said clamp to said tie.

1,343,263. SCOOP-GATE AND CLIP THEREFOR. OTTO K. GROVE, Netawaka, Kans. Filed May 23, 1919. Serial No. 299,128. 7 Claims. (Cl. 296—59.)



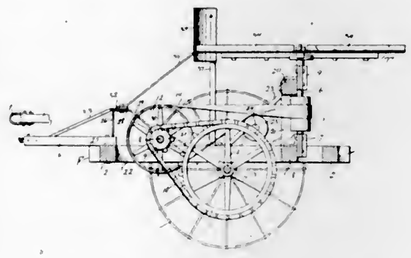
1. The combination with a wagon body: of a cross strip having its ends projecting beyond the sides of the body, a scoop gate mounted upon said extremities for swinging movement relative to the body in opening and closing, means to support said gate in open or closed positions, angle plates mounted upon and inclosing the lower corners of the gate bearing brackets carried by and extending rearwardly of the extremities of the cross strip, and pins pivotally connecting the angle plates with the rear end portions of the bearing brackets.

1,343,264. MACHINE FOR APPLYING STAMPS, LABELS, OR SEALING-STRIPS TO CONTAINERS. GEORGE W. GWINN, New York, N. Y. Filed July 12, 1916. Serial No. 108,917. 31 Claims. (Cl. 216—53.)



1. In a machine for stamping a receptacle having a lid, the combination of means for placing a stamp over the lid; and means movable with said first-named means for initially forcing the lid to its closed position.

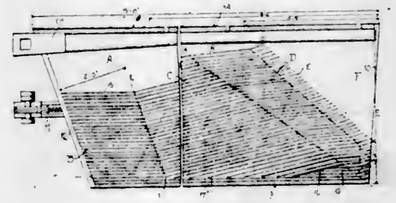
1,343,265. STRAW-SPREADER. GEORGE A. HENSEL, Waterville, Wash. Filed Dec. 29, 1919. Serial No. 347,929. 1 Claim. (Cl. 275—8.)



A straw spreader comprising a portable frame, a vertically disposed shaft carried thereby, a scattering table fixed to the upper end portion of said shaft, a drive shaft carried by the frame and in driving connection with the vertically disposed shaft, upstanding posts carried by the frame adjacent the table, a fender supported by said posts and coacting with the peripheral portion of the table, the opposite end portions of said fender terminating in outstanding wings, the intermediate portion of the fender conforming to the peripheral configuration of the table, and bracing members coacting with the upper end portions of the post and with the frame.

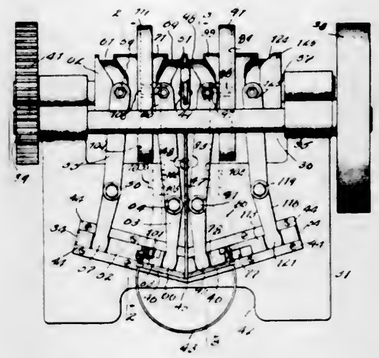
1,343,266. ORE-CONCENTRATING TABLE. BENJAMIN A. HUGHES, Colorado Springs, Colo. Filed Mar. 17, 1917. Serial No. 155,539. Renewed Mar. 22, 1920. Serial No. 367,828. 12 Claims. (Cl. 83—88.)

1. A longitudinally horizontal but transversely inclined, longitudinally reciprocating, concentrating table having no lateral component in its movement and having its upper surface disposed entirely in one plane, said table having a relatively large, smooth, initial stratifying zone at the head end of the table, the lower boundary of this stratifying zone extending upward and forward at an inclination to the direction of movement of the table, a relatively large, smooth, flat, classifying zone at the discharge end of the table and extending transversely thereof from the upper side toward the lower side of the table, and a zone disposed between the stratifying zone and classifying zones and separating them from each other having riffles inclined upward and toward the discharge end of the table and at such an angle to the line of motion of the table as to offer material resistance to the progress of the



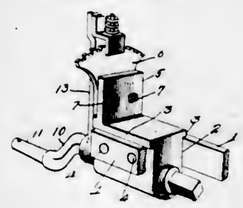
material, the channels defined by said inclined zone of riffles all discharging upon the final classifying zone, and the uppermost riffle forming an upwardly inclined boundary to the lower edge of the stratifying zone against which mineral in the stratifying zone will bank.

1,343,267. BAIL-END-FORMING MACHINE. WILLIAM J. KENNY, Cicero, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 18, 1917. Serial No. 187,010. 8 Claims. (Cl. 140—75.)



1. A machine for forming bail ends, comprising in combination loop forming dies movable in the plane of the body of the bail, a loop forming die movable transversely to said plane, and end bending dies one movable at right angles to said plane and the other movable in said plane.

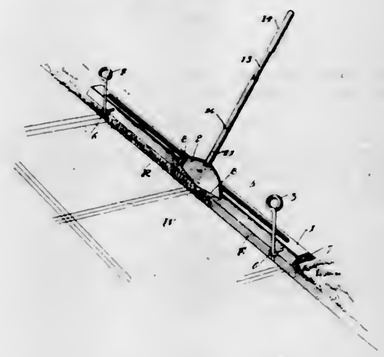
1,343,268. CRANK-AXLE ADJUSTMENT. OTTO E. KOPPLIN, Marion, Tex. Filed June 28, 1919. Serial No. 307,468. 2 Claims. (Cl. 280—6.)



1. In an apparatus of the class described, the combination of a pair of parallel plates, an axle-carrying body

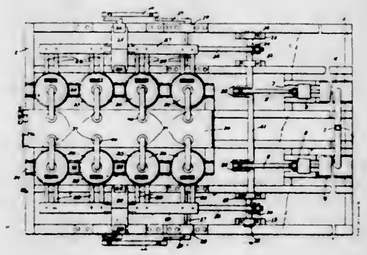
positioned between said plates, means on the body and engaging the top of the plates for securing the body thereto, additional means for also fastening the body positively to the plates, a crank axle journaled in said body, and means coöperating with the body and the crank axle for adjusting said axle and retaining it in an adjusted position.

1,343,269. LAWN-EDGE-TRIMMING GAGE. JOSEPH LEES, West Bethlehem, Pa. Filed Nov. 15, 1919. Serial No. 338,180. 5 Claims. (Cl. 97—28.)



1. A cutting implement used in connection with a lawn edge trimming gage, comprising a blade, a staff to which it is affixed and which has a bore, and a weighted driving member operative in said bore.

1,343,270. ENGINE-DRIVEN AIR-COMPRESSOR. IWAN LYCHYJ, Sault Ste. Marie, Ontario, Canada. Filed Oct. 29, 1919. Serial No. 334,287. 4 Claims. (Cl. 230—32.)

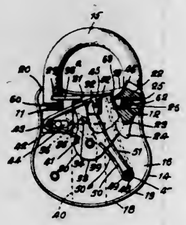


1. An apparatus of the type described comprising a base frame, a pair of engines mounted on said frame, a plurality of air compressors arranged in two rows on opposite sides of the base frame and comprising upper and lower units operated by a common piston rod, vertically slidable weights operatively connected to said piston rods, and means whereby said weights are lifted by said engines.

1,343,271. LOCK. IRA A. MCCORMACK, New York, N. Y. Filed Jan. 20, 1919. Serial No. 272,105. 3 Claims. (Cl. 116—11.)

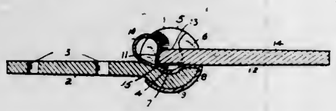
1. In a lock having a casing with a pivoted shackle as well as carrying an alarm adapted to be set when the

shackle is closed on the casing, a protective element associated with the pivot of the shackle for preventing the



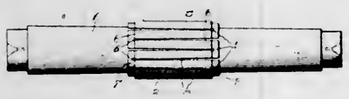
alarm being tampered with from the exterior of the casing when the alarm is set.

1,343,272. SHAFT-COUPLING. CHARLES W. MCCORMICK, Pittsburgh, Pa. Filed Dec. 5, 1919. Serial No. 342,672. 3 Claims. (Cl. 21—37.)



1. A shaft coupling comprising a coupling head adapted to be connected with the axle of a vehicle and provided with a socket and a pair of slots opening into the socket, a flat spring extended through said slots and socket and having its forward portions overlapping the lower portion of said head, said spring having its rear portion bent forwardly upon itself and extended into the socket, and a coupling member seated in the socket and bearing against the spring.

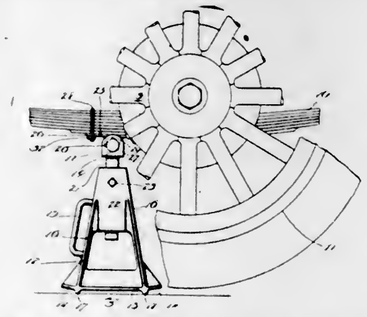
1,343,273. EXPANDING MANDREL. MARK EUGENE MOORE, Minneapolis, Minn., assignor to Moore Tool Company, Fairmont, Minn., a Corporation of Minnesota. Filed Nov. 12, 1919. Serial No. 337,416. 1 Claim. (Cl. 82—44.)



The combination with a lathe arbor, of a sleeve or mandrel adapted to telescopically fit the arbor, said sleeve or mandrel having longitudinal slits constructed in the wall thereof and being formed from opposite ends of the mandrel, whereby the mandrel or sleeve is capable of expanding when fitted upon the arbor, said slits having their closed ends terminating short of the opposite ends of the sleeve or mandrel and staggered with relation to the open ends of the slits, whereby the opposite ends of the mandrel or sleeve can uniformly expand, the closed ends of the slits terminating in circular openings, thereby permitting the sleeve or mandrel to readily expand, the opposite ends of the mandrel or sleeve being reduced and having shoulders immediately adjacent the circular openings at the closed ends of the slits, thereby taking care of the buckling, which usually occurs when the sleeve expands.

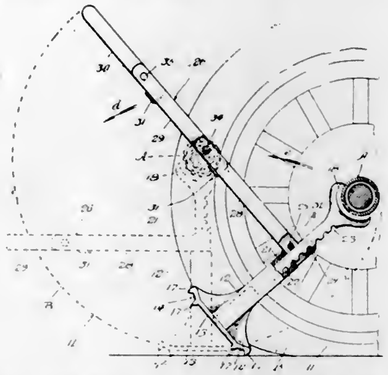
1,343,274. LIFTING-JACK. DANIEL C. MULVIHILL, Hannibal, Mo. Filed May 15, 1919. Serial No. 297,193. 7 Claims. (Cl. 254—86.)

1. A lifting jack for vehicles, comprising a pivot member fixedly secured to the running gear of vehicle provided with a rigid trunnion projecting laterally from one side of the pivot member, and a jack body pivotally and detachably secured to the trunnion of said pivot member, said jack body being adapted to rest in a tilted position



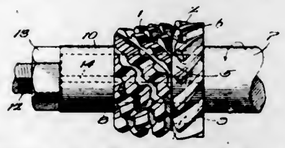
upon the surface supporting the vehicle, and capable of being moved into an upright position by endwise movement of the vehicle, whereby said vehicle is lifted when the jack body straightens up.

1,343,275. LIFTING-JACK. DANIEL C. MULVIHILL, Hannibal, Mo. Filed May 15, 1919. Serial No. 297,194. 6 Claims. (Cl. 254—94.)



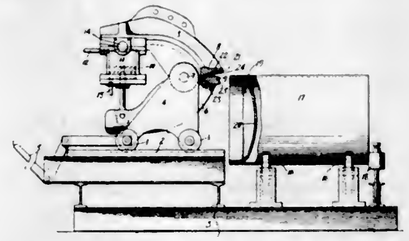
1. A lifting jack for vehicles, comprising a post having a wide base and a yoke shaped upper end portion adapted to engage the vehicle axle, and a handle adjustably secured to said end portion and forming a supporting connection between said end portion and base and extending at right angles to the post.

1,343,276. COMBINATION ROUGHING AND FINISHING HOB. CARL G. OLSON and NIKOLA TRBOJEVICH, Chicago, Ill., assignors to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1919. Serial No. 316,361. 6 Claims. (Cl. 29—104.)



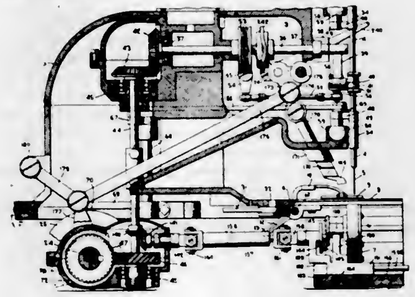
1. A compound hob having a plurality of individual separable sections, one constituting a roughening section and another a finishing section, means for holding them in axial alinement, and means for locking them in proper position angularly about the axis of rotation.

1,343,277. APPARATUS FOR WELDING. WILLIAM A. PRATT, Bayonne, N. J., assignor to The M. W. Kellogg Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 13, 1919. Serial No. 270,995. 16 Claims. (Cl. 78—89.)



1. A machine for welding two contacting layers of metal, comprising in combination two welding jaws, means for separating said jaws to receive the metal layers and for forcing said welding jaws to approach one another to apply welding pressure thereto, and means for holding one of said layers against motion in a direction away from the space between said jaws, said jaws having means whereby the edge of said one layer that is between said jaws and is held stationary and the parts of both layers adjacent the edges between said jaws are bent over one of said jaws while pressed forcibly together.

1,343,278. BUTTONHOLE-SEWING MACHINE. FRANKLIN A. REECE, Chestnut Hill, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Dec. 18, 1915. Serial No. 67,683. Renewed Apr. 17, 1920. Serial No. 374,748. 70 Claims. (Cl. 112—73.)



1. In a sewing machine, the combination with a reciprocating needle bar and means to reciprocate it, of a needle bar carrier by which said needle bar is guided in its reciprocation, means to vibrate said carrier in timed relation with the reciprocation of the needle bar, and other means to give said carrier a bodily movement in addition to its vibratory movement and in the direction of the movement of the needle bar due to said vibratory movement.

56. In a sewing machine, the combination with stitch-forming mechanism, of work-holding means, a cam for giving feeding movement to the work-holding means, feed dogs for actuating the cam, a driving gear, an eccentric actuated thereby and by which the feed dogs are actuated, and means to vary the throw of the eccentric.

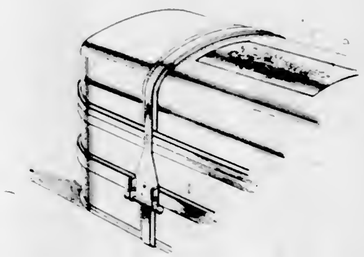
1,343,279. FLUE-SUPPORT. CHARLES DEMPS REYNOLDS, Gretna, Va. Filed Mar. 1, 1918. Serial No. 219,811. 2 Claims. (Cl. 248—31.)

2. In a flue support, the combination with a standard having pipe-receiving and engaging arms at the upper end thereof adapted to snugly receive and support the overlapping portions of telescopic pipe sections; of screws threaded through said arms adjacent to their free ends and having abruptly reduced pins tapered at their inner ends adapted to penetrate said overlapping portions and



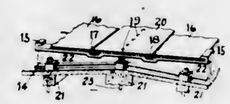
inwardly facing shoulders formed at the juncture of the screws and pins adapted to seal the openings around the pins in the overlapping portions of the pipe sections through which the pins pass, said pipe sections being thereby held against separation or turning.

1,343,280. CASKET-PANEL. DELBERT J. REYNOLDS, Minneapolis, Minn., assignor to James W. De Camp, Blackwell, Okla. Filed Oct. 24, 1918. Serial No. 259,576. 3 Claims. (Cl. 27—8.)



3. The combination with a casket wall having a transparent portion formed with a recess, of a transparent panel of the same material as the casket wall seated within the recess and having its face which confronts the inner wall of the recess provided with a representation of an object in appropriate colors produced in the said face in relief.

1,343,281. RUNNING-BOARD STRUCTURE. FRANK F. REISINGER, Evansville, Ind. Filed Feb. 19, 1920. Serial No. 359,977. 2 Claims. (Cl. 105—457.)

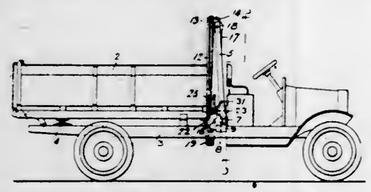


2. A running board saddle of I-beam design, in combination with longitudinally adjustable clips adapted to engage the lower flanges of the saddle and to receive vertical bolts for bolting the saddle to the car roof.

1,343,282. CEMENTITIOUS MATERIAL FOR RECEPTACLE-CLOSURES. FRANK ROBERTS, Liverpool, England, and JOHN M. GIFFIN, Halifax, Nova Scotia, Canada. Filed Feb. 11, 1918. Serial No. 216,556. 1 Claim. (Cl. 106—8.)

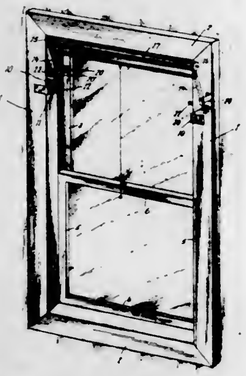
A cementitious material for effecting a tight joint between a jar and a closure therefor, consisting of a mixture of five-eighths parts of rock lime and three-eighths parts of rosin.

1,343,283. HOISTING APPARATUS FOR VEHICLES. WILLIAM SANDERSON, Conneautville, Pa. Filed Oct. 16, 1918. Serial No. 258,358. 9 Claims. (Cl. 298—19.)



2. In a dumping vehicle, the combination with the vehicle frame, of a body mounted on the frame, means for moving the body to dumping position, comprising a derrick mounted on the frame and including lifting mechanism, a rail disposed vertically on the end of the body, and an unflanged bearing on the derrick engaging the rail for supporting the derrick, the rail and bearing being adapted to both longitudinal and lateral travel with relation to each other.
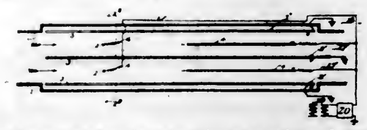
1,343,284. WINDOW-SHADE. JOHN SCHENK, New York, N. Y. Filed Mar. 6, 1919. Serial No. 281,003. 4 Claims. (Cl. 156—24.)



1. A window shade carrying and moving device comprising a pair of arms hinged at their lower ends to the side members of a window frame, said arms being formed to carry a shade on their free ends, members carried by the upper window sash and positioned to engage the said arms to move their shade carrying ends toward the window frame when the upper sash is raised above a predetermined point, said members being arranged to disengage said arms when the upper sash is lowered below said predetermined point.

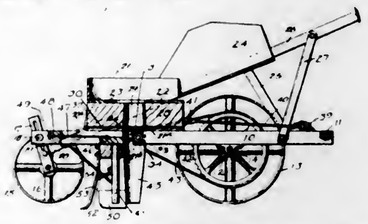
4. A window shade carrying and moving device comprising a pair of arms hinged at their lower ends to the side members of a window frame, said arms being formed to carry a shade on their free ends, and a pair of hooked fingers fixed to the upper window sash and positioned to engage the said arms to move their shade carrying ends toward the window frame when the upper sash is raised above a predetermined point, said fingers being arranged to disengage said arms when the upper sash is lowered below the said predetermined point and a pair of pins fixed to the side members of the window frame and supporting said arms when the upper sash is lowered below the said predetermined point.

1,343,285. MEANS FOR SEPARATING SUSPENDED MATTER FROM GASES. WALTER A. SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 5, 1913. Serial No. 751,995. 47 Claims. (Cl. 183—7.)



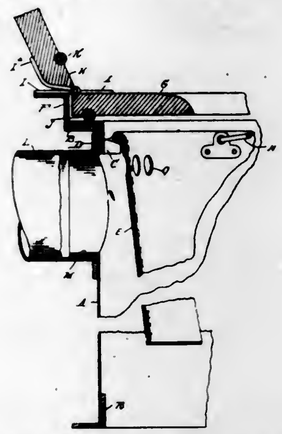
47. An apparatus for electric separation of suspended matter from gaseous fluids, comprising a longitudinal ionizing part, a charging electrode and a collecting field-surface member having a field-surface substantially parallel to said longitudinal ionizing part.

1,343,286. PLANTER. FRED H. SCHUTTER, Pleasant Valley, Iowa. Filed July 1, 1919. Serial No. 308,051. 5 Claims. (Cl. 221—143.)



1. In a device of the character specified, the combination with a seed box having a perforated bottom, a perforated shaker slide mounted to reciprocate therein, and drop the seed through said bottom, a delivery spout mounted below said seed box and adapted to receive the seed from the shaker slide, and a rotating horizontal brush mounted in the upper end of said spout, beneath the bottom opening.

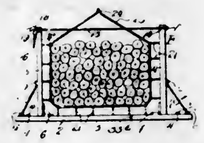
1,343,287. CHEMICAL-CLOSET. FRANK B. SHAFER, Northville, Mich., assignor, by mesne assignments, to John A. Kelly, Chicago, Ill. Filed Feb. 28, 1917. Serial No. 151,574. 1 Claim. (Cl. 4—32.)



The combination with a cylindrical sheet metal casing having reinforcing rings at the bottom and top thereof,

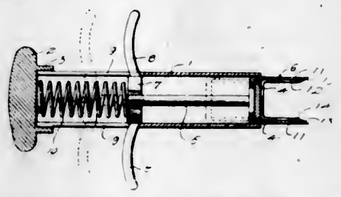
of lugs extending inward from said upper rings, an inner receptacle having a beaded upper edge supported on said lugs, a seat and a cover hinged to the upper ring of said casing, and a vent tube connected to said casing below said upper ring.

1,343,288. WOOD-HANDLING DEVICE. HERMAN M. STRAWN, Chico, Calif. Filed Feb. 26, 1919. Serial No. 279,331. 6 Claims. (Cl. 214—1.)



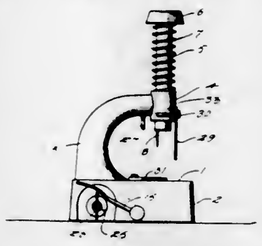
1. In a wood handling device, the combination with a pair of collapsible cradle frames, of means for holding the cradle frames in spaced parallelism to each other, each cradle frame comprising a base beam and a pair of end uprights hingedly connected to the ends of the base beams, whereby the uprights may be collapsed against the base beam, means for holding the uprights extended vertically, detachable tie connections between the upper ends of the uprights and means flexibly connected to the base beam and the uprights for drawing a pile of wood compact in the cradle frames.

1,343,289. STAPLE-SETTER. FRANK C. SUCHY, San Antonio, Tex. Filed May 5, 1919. Serial No. 294,974. 2 Claims. (Cl. 1—50.)



1. In a staple setter, a barrel having longitudinal slots in its side and having one end slotted, a stem movably mounted in the barrel, piercing arms on said stem and extending through the slots in the end of the barrel, a disk secured to said stem, arms extending from said disk and through the slots in the side of the barrel, a head secured to the barrel, and a spring engaging said head and disk to hold said piercing arms normally extended from the barrel.

1,343,290. TAG-THREADING MACHINE. FRANK C. SUCHY, San Antonio, Tex. Filed May 31, 1919. Serial No. 300,925. 7 Claims. (Cl. 93—91.)



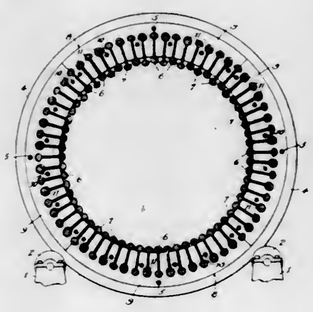
2. In a tag threading machine, a base, a goose neck rising from said base, a bearing on said goose neck, a plunger slidably mounted in said bearing, a needle secured to said plunger and formed to engage a flexible tag threading element, said base provided with an opening to receive said needle and flexible threading element, and means mounted on said base to disengage the flexible element from the needle when the plunger is in its lowermost position.

1,343,291. DETACHABLE ROOF. ELLIS W. TEST, Michigan City, Ind. Filed Oct. 22, 1919. Serial No. 332,467. 5 Claims. (Cl. 105—377.)



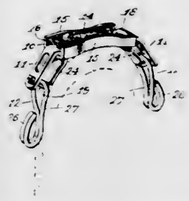
1. In a railway car, in combination, a car body, a plate on said body having a ridge on its upper portion comprising downwardly sloping surfaces, a roof structure comprising a separate entity freely removable from said body and having a plate at its margin, said plate having downwardly diverbing portions adapted to seat on each side of said ridge in contact with said surfaces.

1,343,292. NON-CLOGGABLE SELF-CLEANING SCREEN. ALONZO G. TURNER, Hanksville, Utah. Filed Jan. 19, 1918. Serial No. 212,727. 6 Claims. (Cl. 83—56.)



1. In a rotary screen of the character indicated the combination with suitable end supports provided with radial slots, of a series of independent screening bars freely mounted in said slots and adapted to gravitate to their lowermost positions as the screen is rotated.

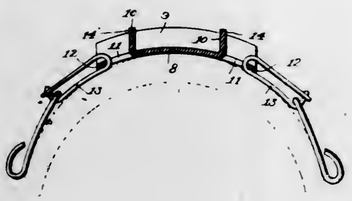
1,343,293. ANTISKID DEVICE FOR TIRES. GUY B. WAITE, New York, N. Y. Filed Dec. 18, 1917. Serial No. 207,789. 2 Claims. (Cl. 152—14.)



1. A transverse member for a tire antiskid device, comprising a tread-block, a sheet-metal link connected to each

end of said tread-block, each of said links being formed with a wide inner-side having a relatively narrow end-piece at one end, and an outer-side connected to the inner side with a wide curve at one end and at its other end to said end-piece by an integrally formed locking and spacing means, said inner and outer-sides being spaced apart their entire length substantially the width of said curved end and forming an open loop free from obstructions between its ends, whereby said link can have a free endwise movement in either direction, said locking and spacing means embodying a tongue formed integrally with said narrow end-piece, and an opening formed in the end of said outer-side to receive said tongue which is adapted to be bent over the edge of said opening to lock the link closed, and means for detachably securing said links to the side members of the anti-skid device.

1,343,294. TREAD-BLOCK FOR TIRES. GUY B. WAITE, New York, N. Y. Filed Mar. 5, 1918. Serial No. 220,600. 3 Claims. (Cl. 152—14.)



1. A tread-block of the character described, comprising a channeled metal frame forming a bottom having outwardly extending side-flanges, and cross-flanges extending between said side-flanges intermediate the ends of said frame, said cross-flanges being cut and bent outwardly from the bottom toward the center of the block to provide link openings adjacent the ends of the block, said portions of the side-flanges lying opposite said openings forming reinforced walls for the openings.

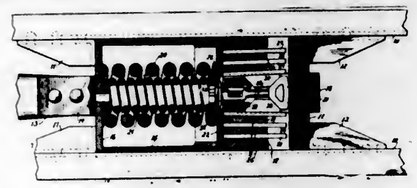
1,343,295. DRAFT-GEAR. HARRY F. WOERNLEY, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1915. Serial No. 49,225. 17 Claims. (Cl. 213—64.)



1. In a draft gear, in combination, a group of alternated friction plates, adjacent plates having relative longitudinal movement, the plates of one set being wedge-shaped, and means presenting a wedging face to the plates.

1,343,296. DRAFT-GEAR. HARRY F. WOERNLEY, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 25, 1915. Serial No. 52,672. 13 Claims. (Cl. 213—64.)

13. In a draft gear, in combination, two groups of alternated friction plates, the plates of the two groups being inclined to each other and adjacent plates of each group having relative longitudinal movement, two cooperating pairs of oppositely facing relatively movable wedge blocks located between the two groups of plates, the wedge blocks of one pair being longitudinally disposed and the wedge blocks of the other pair being transversely disposed, and a spring opposing the outward movement of the longitudinally disposed wedge block at that end at which the two groups of friction plates are nearest to each other.

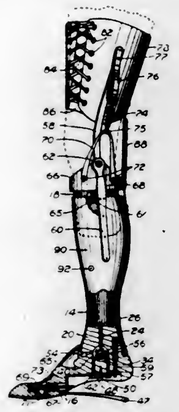


1,343,297. ARTIFICIAL LIMB. OSCAR E. WORMAN, Minneapolis, Minn. Filed Oct. 21, 1918. Serial No. 258,964. 13 Claims. (Cl. 3—2.)



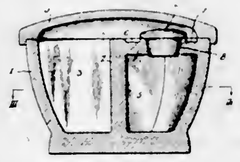
1. An artificial limb comprising a shank member and a thigh member pivoted together to form a knee joint, an elastic member attached at its upper end to the knee joint portion of the thigh member and attached at its lower end to the rear portion of the shank member below the top thereof, and means operable from outside said shank member for adjusting the tension of said elastic member.

1,343,298. ARTIFICIAL LIMB. OSCAR E. WORMAN, Minneapolis, Minn. Filed Oct. 21, 1918. Serial No. 258,965. 15 Claims. (Cl. 3—2.)



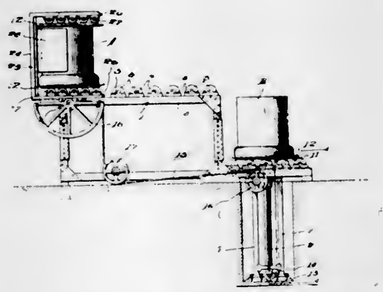
1. An artificial limb comprising a shank member and a foot member, a hollow bearing member secured to said shank member, a bearing member secured to said foot member, said bearing member being pivotally connected with said hollow bearing member, a removable container for lubricant adapted to be secured in said hollow bearing member, the inner end of said container having a small opening, and a plug adapted to be turned into the outer end of said container to force small quantities of lubricant through said small opening to lubricate the contacting surfaces of said bearing members.

1,343,299. LIQUID-RECEPTACLE. HARRINGTON S. BARROWS, Cleveland, Ohio. Filed Sept. 25, 1919. Serial No. 326,195. 1 Claim. (Cl. 215—99.)



A device of the character described comprising as an integral construction a hollowed piece of vitreous material divided by upright partitions into a plurality of laterally adjacent compartments each open above but having no communication with each other, one of which includes an integral cover provided with a hole, a stopper for hermetically sealing said hole, and a cover for the entire receptacle adapted directly by itself to extend over to close all of said compartments and to inclose said stopper.

1,343,300. PIPE-TURNER. JOHN BECKER, Malvern, Ohio. Filed Feb. 19, 1919. Serial No. 277,914. 15 Claims. (Cl. 214—1.)



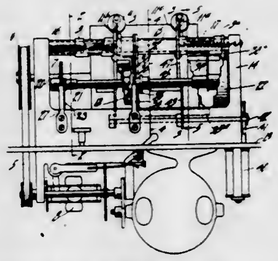
6. In a pipe turner, the combination of a supporting bench, an elevator structure arranged to elevate the pipes to the level of the bench, a turning structure adapted to receive the pipes from the bench, and means for simultaneously operating the elevator structure and turning structure.

1,343,301. FASTENER. GEORGE M. BILLS, Battle Creek, Mich. Filed Mar. 6, 1920. Serial No. 363,857. 5 Claims. (Cl. 24—248.)



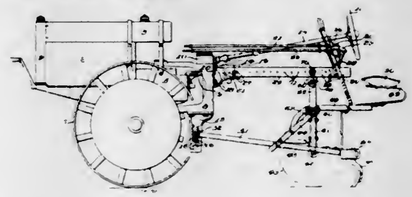
1. A fastener of the kind set forth comprising a main jaw and an auxiliary jaw pivotally united, whereby both jaws may move flatwise and in corresponding parallel planes when closed, the main jaw having an offset part provided with fabric engaging means, between which and the auxiliary jaw a piece of drapery or the like may engage, said jaws having means overlying the opposite jaw to hold the two jaws together.

1,343,302. PHONOGRAPHIC TIME-ANNOUNCER. JOHN G. BLESSING, Chicago, Ill., assignor to Automatic Electric Company, a Corporation of Illinois. Original application filed July 7, 1913, Serial No. 777,677. Divided and this application filed May 21, 1917. Serial No. 170,110. 8 Claims. (Cl. 58—14.)



1. In a phonographic announcer, a continuously moving record having a plurality of circular grooves, a stylus adapted to engage said grooves, and automatic means for disengaging said stylus from one groove and then shifting the same to the next succeeding groove at predetermined time intervals.

1,343,303. TRACTOR. JAMES MONROE BOWEN, Cape May Court House, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Nov. 7, 1919. Serial No. 336,308. 10 Claims. (Cl. 180—12.)



1. In combination with a two wheel power mechanism having a rearwardly extending beam, and an implement adapted to be hauled by said power mechanism, means for connecting said beam and said implement comprising an operatively rigid member extending transversely of said beam, and a member connected to said implement surrounding and movable about said first mentioned member in vertical planes respectively parallel and normal to the longitudinal axis of said beam.

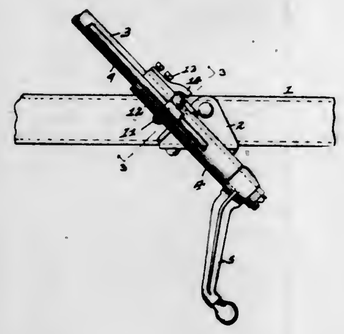
1,343,304. WEATHER-STRIP. OSCAR SEARS BEANHAM, Roswell, N. Mex. Filed Oct. 23, 1918. Serial No. 259,387. 1 Claim. (Cl. 20—68.)



A weather strip comprising a strip of metal adapted to be secured transversely of the lower end of a door, and

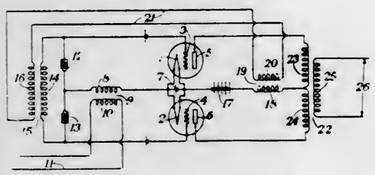
having vertical slots for receiving a securing means, said strip having its upper edge turned backwardly upon itself to form an inclined flange, a second strip mounted to slide longitudinally of the first strip, said second strip having arcuate slots near its ends, and having its upper edge inclined for engagement beneath said flange in conforming relation thereto and the first strip having stems engaging the arcuate slots to constrain the second strip to move laterally when it is moved longitudinally of the first strip, disks disposed against the outer face of the second named strip and covering the arcuate slots therein and held in place by nuts threaded on said stems, springs arranged between the strips and acting normally to move the second strip in a direction away from the bottom of the door, said second strip having one end normally extending beyond the adjacent end of the other strip and adapted to engage the door casing to move said second strip downwardly when the door is closed for the purpose specified.

1,343,305. STEERING-ROD FOR AUTOMOBILES. CLIFFORD A. CALDWELL, Pittsburgh, Pa. Filed Sept. 2, 1919. Serial No. 320,995. 3 Claims. (Cl. 74—79.)



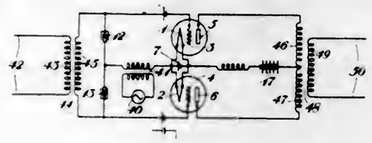
1. The combination with the steering rod and frame of an automobile, of means for attaching said rod to the frame, and a collar secured to said rod and engaging with said means to limit the movement of said rod.

1,343,306. DUPLEX TRANSLATING-CIRCUITS. JOHN R. CARSON, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 5, 1916. Serial No. 118,573. Renewed May 27, 1919. Serial No. 300,178. 22 Claims. (Cl. 179—171.)



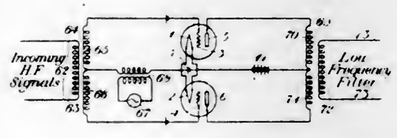
1. A translating apparatus comprising a duplex translating arrangement, a pair of input and a pair of output circuits for said translating arrangement, two separate sources of current variation, and two separate outgoing circuits, said input circuits being symmetrically associated with one of said sources and being oppositely associated with the other source, said output circuits being cumulatively associated with one of said outgoing circuits and being differentially associated with the other outgoing circuit.

1,343,307. DUPLEX TRANSLATING-CIRCUITS. JOHN R. CARSON, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Original application filed Sept. 5, 1916, Serial No. 118,573. Divided and this application filed Mar. 26, 1917, Serial No. 157,413. Renewed May 27, 1919. Serial No. 300,179. 13 Claims. (Cl. 179—171.)



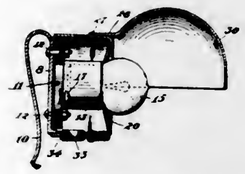
1. A modulating system comprising a pair of translating devices, a source of high frequency energy similarly connected with said devices, a source of modulating energy oppositely connected with said devices and an outgoing circuit differentially connected with said devices.

1,343,308. DUPLEX TRANSLATING-CIRCUITS. JOHN R. CARSON, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Original application filed Sept. 5, 1916, Serial No. 118,573. Divided and this application filed Mar. 26, 1917, Serial No. 157,414. Renewed May 27, 1919. Serial No. 300,180. 18 Claims. (Cl. 179—171.)



1. A receiving apparatus for carrier wave signaling systems comprising a pair of translating devices having input and output circuits, a circuit for the reception of high frequency signals, a second circuit containing a local source of high frequency energy, one of said circuits being symmetrically associated with said input circuits, and the other being oppositely associated with said input circuits, and a receiving circuit differentially associated with said output circuits.

1,343,309. ELECTRIC LAMP. JACK CATHRILL, Los Angeles, Calif., assignor of one-half to Libbie R. Fenn, Los Angeles, Calif. Filed Feb. 13, 1919. Serial No. 276,821. 3 Claims. (Cl. 240—41.)



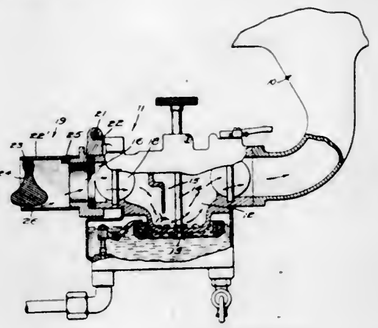
1. An electric lamp comprising a back plate formed with a marginal flange, a spring arm on said back plate cooperating therewith to form a spring clamp, a cap having side walls engaging the flange on the back plate and having a concave end wall constituting a reflector and formed with a central opening, a lamp socket in said cap carried by the back plate, an incandescent light bulb held in said socket and arranged immediately in front of the concave end wall of the cap, a sleeve on said cap, and a shield carried by said sleeve projecting forward of the concave end of the cap.

1,343,310. WINDSHIELD-WIPER. VICTOR H. CHRISTEN, Toledo, Ohio. Filed Feb. 2, 1920. Serial No. 355,842. 3 Claims. (Cl. 15—59.)



1. In a wind shield wiping means, a pin, a spring arm, the pin having a pair of slots in alinement on opposite sides, the spring arm having an opening for receiving the portion of the pin between the slots, a wiper connected to the arm and means to hold said pin in operative position.

1,343,311. AIR-CONTROL DEVICE FOR THE AIR-INLETS OF CARBURETERS. HARVEY CORY, Long Beach, Calif., assignor to Eugene F. Kline, Los Angeles, Calif. Filed Aug. 1, 1916. Serial No. 112,545. 2 Claims. (Cl. 251—126.)

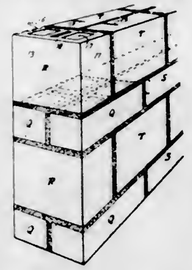


1. An air control valve for carbureters, comprising a rectangular housing, a clamping ring by which it is detachably secured to the air intake opening of a fuel carbureter, a weighted valve member adapted to depend from a pivot within the housing and extend across the housing opening in an obstructing manner, an air passageway normally occurring between the lower edge of the valve and the housing wall, and means whereby the valve housing may be disposed at an angle to the horizontal without increasing said passageway, said means diverting the air downwardly along the lower wall of said passageway as the suction through the said passageway increases.

2. An air control valve for carbureters, comprising a valve housing having a rectangular passageway at one end thereof, and a weighted valve member suspended across the rectangular passageway for free vertical swinging movement; said valve member having a cylindrical portion surrounding its pivotal mounting and adapted to close the space between the mounting and the top of the opening, and an arcuate lower face concentric with the pivotal axis of the member and adapted to swing above the lower straight wall of the passageway; said face being of sufficient length to allow the housing to be disposed at various angles to the vertical without impairing the operation of the valve.

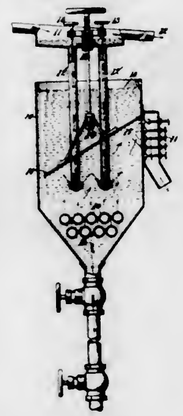
1,343,312. WALL CONSTRUCTION. GEORGE W. DENISON, Cleveland, Ohio. Filed Apr. 23, 1918. Serial No. 230,318. 2 Claims. (Cl. 72—41.)

1. A wall construction comprising hollow tiles laid with their voids horizontal and some of the tiles lying flatwise and others on edge, each tile having a width equal to twice its height plus the thickness of a motar joint, and tiles standing on end at the corners or jambs and closing said horizontal voids, such vertical tiles having the same



height and width as the other tiles and having two sizes of lengths, one of which is equal to the height of the tile, and the other of which is equal to the width of the tile.

1,343,313. PROCESS AND APPARATUS FOR CONCENTRATING ORES OR OTHER MATERIALS. SAMUEL H. DOLBEAR, San Francisco, Calif., assignor to Minerals Separation North American Corporation, a Corporation of Maryland. Filed Nov. 14, 1918. Serial No. 262,446. 16 Claims. (Cl. 83—85.)



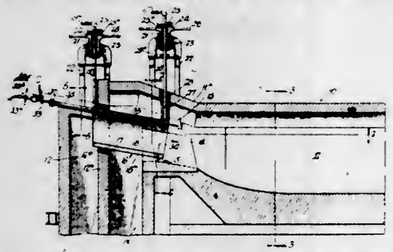
1. A process of concentration consisting in subjecting a column of liquid having therein a mixture of floatable and unfloatable material in a suitably divided condition to gasification in such manner that gas in the form of bubbles will rise upward in the liquid and become attached to the floatable material, and diverting such bubbles from the column into a gaseous medium at a point where the pressure in said column is greater than in such gaseous medium.

1,343,314. PORT CONSTRUCTION FOR METALLURGICAL FURNACES. GEORGE F. DOWNS and HERBERT F. MILLER, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Filed Mar. 30, 1918. Serial No. 225,647. 11 Claims. (Cl. 122—6.5.)

1. In a furnace of the kind described, in combination with the furnace walls defining gas and air uptakes and an air port connecting the air uptake with the iterior of the furnace, means providing a flue extending into said air port to connect the gas uptake with the interior of the furnace, and adjustable means operable from without that wall of the furnace providing the top wall of the air port for supporting said flue so that said air port entirely surrounds the orifice of said flue.

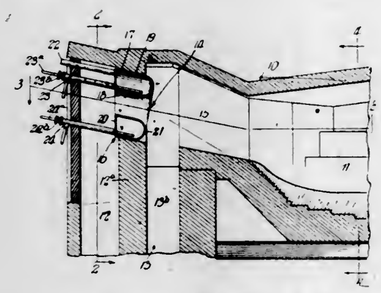
2. In a furnace of the kind described, in combination with the furnace walls defining gas and air uptakes and

an air port connecting the air uptake with the interior of the furnace, means providing a water-cooled tubular metal flue extending into said air port to connect the gas



uptake with the interior of the furnace, and adjustable means operable from without that part of the furnace providing the top wall of the air port for so supporting said flue that it is entirely surrounded by said air port.

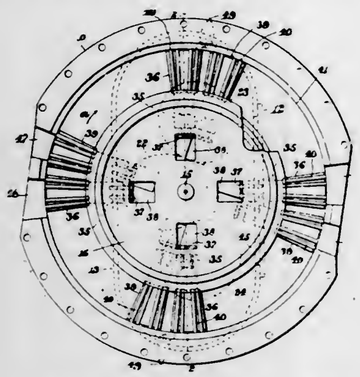
1,343,315. PORT CONSTRUCTION FOR METALLURGICAL FURNACES. GEORGE F. DOWNS and HERBERT F. MILLER, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Filed May 15, 1919. Serial No. 297,362. 7 Claims. (Cl. 158—7.5.)



1. In a furnace of the kind described, in combination with the furnace walls defining gas and air uptakes and an air port, a gas flue connecting the gas uptake with the interior of the air port, said gas flue being positioned to discharge across and at an angle to the upward path of the air coming through the air uptake

---

1,343,316. ROTARY INTERNAL-COMBUSTION ENGINE. ERNEST DURR, U. S. Navy. Filed July 16, 1919. Serial No. 311,881. 2 Claims. (Cl. 121—49.)

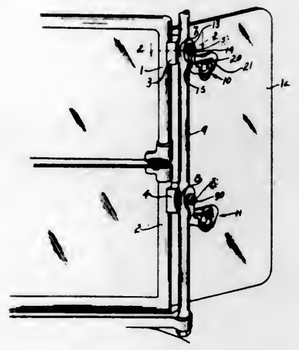


1. In a device of the class described, a casing having an annular piston chamber therein; a revoluble shaft; a plurality of pistons in said chamber and revoluble with said shaft; a sleeve mounted on said shaft and revoluble independently thereof; a plurality of pistons in said chamber revoluble with said sleeve and alternating with the first mentioned set of pistons; gears on said shaft and sleeve; a pinion rotated by each gear; an elliptical gear revoluble with each pinion; a power transmitting shaft; and an elliptical gear thereon meshing with both of said first mentioned elliptical gears.

1,343,317. PROCESS OF STABILIZING NITROSTARCH. BERNHARD JACQUES FLURSCHEIM, New York, N. Y., assignor to Aetna Explosives Company, Inc., New York, N. Y., a Corporation of New York. Filed May 17, 1917. Serial No. 169,264. Renewed Mar. 5, 1920. Serial No. 363,593. 1 Claim. (Cl. 52—3.)

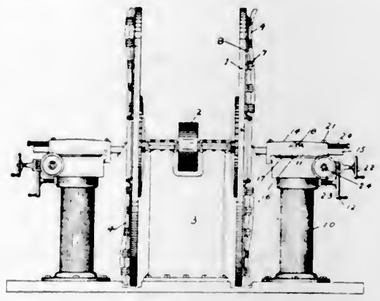
The hereinbefore described process of stabilizing nitrostarch which consists in washing it by boiling with an aqueous solution of cyanamid, eliminating the final wash water, and drying the product.

1,343,318. AUXILIARY WINDSHIELD. GEORGE GLAUDEL, Los Angeles, Calif. Filed Aug. 9, 1919. Serial No. 316,444. 3 Claims. (Cl. 296—84.)



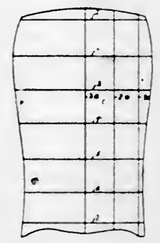
1. In combination with a wind shield, clamp bars, means for adjustably mounting the clamp bars on the wind shield frame, rigid clamping jaws on said clamping bars, movable clamping jaws, cushions on the inside of said jaws for engaging a glass plate therebetween, and clamping screws in said clamping bars for engaging said movable jaw to cause said jaws to clamp the glass plate.

1,343,319. WOOD-TURNING MACHINE. JOHN HERZOG, Saginaw, Mich. Filed July 8, 1918. Serial No. 243,949. 5 Claims. (Cl. 142—38.)



1. In a wood panel turning machine, the combination of a revoluble face-plate, panel-holding devices thereon, a movable slide adjustable toward and from said face-plate, a master pattern fixed to said slide and located in proximity to the face of said disk and parallel therewith, a tool carriage laterally movable on said slide, a plurality of independent longitudinally movable spring-pressed tool-carrying bars slidingly mounted on said carriage, and bars spaced apart and yieldingly engaging the working edge of said pattern, and means adapted to simultaneously traverse said carriage and tool bars along said pattern, the sidewise travel of each bar being slightly greater than the distance apart of successive bars.

1,343,320. WARPED PANEL AND METHOD OF FORMING SAME. JOHN HERZOG, Saginaw, Mich. Filed July 8, 1918. Serial No. 243,950. 8 Claims. (Cl. 144—309.)



1. A panel formed by generating a surface of revolution by revolving a line curved transversely to the plane of revolution about one of its ends.

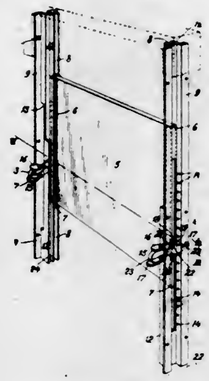
1,343,321. ANTIFRICTION-BEARING. THEODORE JACOBSON, Hartford, Conn. Filed May 22, 1919. Serial No. 299,008. 6 Claims. (Cl. 64—36.)



1. An anti-friction bearing comprising an annular outer member having on its interior wall two ball paths and an intermediate groove, an annular inner member having on its exterior wall two ball grooves and an intermediate ridge, said ridge at one locality being cut away on one side to form a ball filling passage, and rows of balls located between the ball paths on the outer member and the grooves on the inner member.

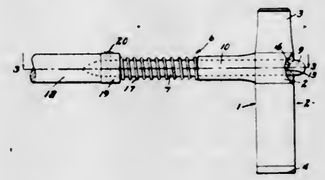
1,343,322. MEANS FOR LIFTING, LOWERING, AND SECURING A WINDOW-SASH. FREDERICK J. JOHNSON, Jersey City, N. J. Filed July 2, 1919. Serial No. 308,114. 4 Claims. (Cl. 292—228.)

4. A device of the character described, comprising a window frame in which a window sash may have vertical movement, handles secured to the sides of said sash and extending through slots in the frame to the front side thereof, levers pivoted to said handles in such a manner that they swing at right angles to the plane of the sash, one end of said levers extending outward under said handles and the inner end of said levers adapted to engage recesses formed in the back of said frame, and a



spring located between said handles and the outer end of said lever, whereby the inner end of said lever is forced into engagement with said recesses.

1,343,323. COLD-CHISEL. GEORGE A. KISSINGER, San Gabriel, Calif. Filed Oct. 13, 1919. Serial No. 330,462. 3 Claims. (Cl. 145—61.)



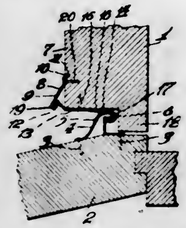
1. A cold chisel comprising a blade having an oblong hole for a handle, and a groove in the face of the blade positioned transversely of the oblong hole, a handle for the blade comprising a stem terminating in an oblong head adapted to slip through the oblong hole of the blade and having side lugs adapted to fit into the groove across the oblong hole and a handle portion fixed to the outer end of the stem and a coil spring positioned on the stem with one end bearing upon the blade and the other end bearing upon the handle portion.

2. A cold chisel comprising a blade having an oblong hole and a groove formed in one face of the blade transversely across the oblong hole, a stem terminating at one end in an oblong head adapted to slip through the oblong hole of the blade, the inner face of the head being formed to fit into the groove in the face of the blade, a sleeve slidably mounted upon the stem adapted to bear against the blade, a coil spring upon the stem bearing against the sleeve and a handle fixed to the outer end of the stem and bearing on the outer end of the spring.

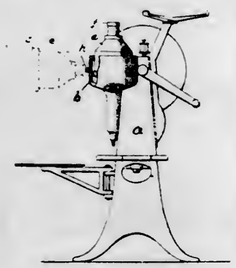
1,343,324. WEATHER-STRIP. OTTO KUBATZKY, St. Louis, Mo. Filed Sept. 17, 1915. Serial No. 51,131. 2 Claims. (Cl. 20—69.)

1. A weather strip for a swinging closure constructed of a single piece of sheet metal comprising a downwardly and outwardly inclining portion and a horizontally arranged portion, said downwardly inclining portion adapted to be engaged against the outside vertical portion of the swinging closure, said horizontal portion adapted to

be secured against the underside of the swinging closure, and there being an inverted groove formed by the upwardly bending of the metal between the inclining portion and the horizontal portion, and a rearwardly extending portion inclining downwardly from said horizontal portion.

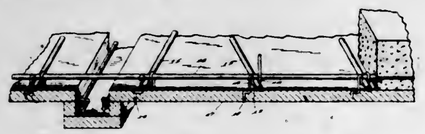


1,343,325. OPENING MEANS FOR CENTRIFUGAL BOWLS. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1919. Serial No. 276,886. 5 Claims. (Cl. 233—1.)



1. Means for unscrewing centrifugal bowls from their holding nuts comprising a fixedly positioned frame, means thereon engageable with the nut to prevent its rotation, and guiding means on the frame to guide the bowl nut into engagement with the rotation preventing means.

1,343,326. CHAIR FOR REINFORCING-RODS FOR REINFORCED CONCRETE. WILLIAM B. LEONARD, Chicago, Ill. Filed June 26, 1919. Serial No. 306,857. 3 Claims. (Cl. 72—122.)



3. As an article of manufacture, a chair for reinforcing rods, comprising an entry tip, a U-shaped seat, and a flexible upper portion normally arranged to leave the seat free of access and adapted to be bent downwardly and around a rod lying transversely to the seat.

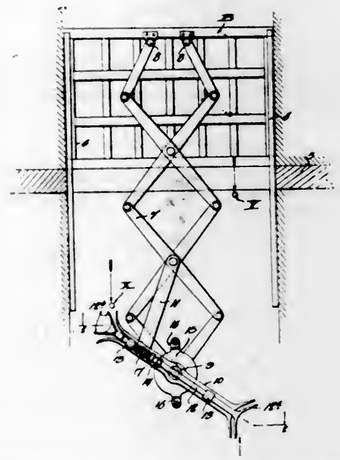
1,343,327. METAL SHELVING. ALBERT H. LEVENE, Philadelphia, Pa., assignor to David Lupton's Sons Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1919. Serial No. 284,681. 3 Claims. (Cl. 211—27.)

3. In shelving, the combination of an upright pierced by a succession of attachment holes, and brackets having wall plates with headed lugs on the back thereof and recesses therein, the distance between the headed lug and the top of the bracket being greater in some brackets than in others by an amount equal to or a multiple of the distance between successive holes in the upright, so that



two brackets, one of each variety, may be engaged with successive holes on the same upright, one on either side of it, with the head of the lug on one bracket within the recess of the opposite bracket and the tops of the two brackets level.

1,343,328. AUTOMATIC ELEVATOR-DOOR. JAMES R. MCGEE, Milwaukee, Wis. Filed Sept. 16, 1919. Serial No. 324,210. 5 Claims. (Cl. 187—58.)



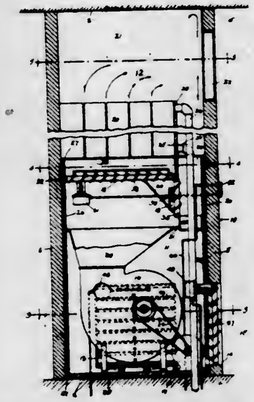
1. A structure of the class described comprising a pair of trackways, a door slidable with respect to said trackways, a set of lazy tongs having one end connected with said door, a stationary pivot for the other end of the tongs, a lever pivoted intermediate its ends on said stationary pivot and connected with said lazy tongs, and primary actuating means movable into engagement with the opposite ends of said lever to successively move the door from open to closed position and vice versa.

1,343,329. SHOE-SOLE PROTECTOR. DAVIS MARINSKY, New York, N. Y. Filed Nov. 3, 1919. Serial No. 335,395. 3 Claims. (Cl. 36—72.)



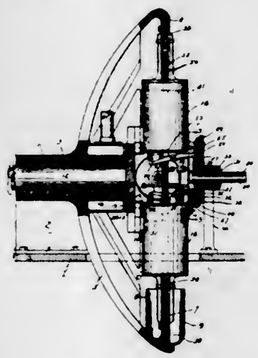
1. A protector for the toe portions of the soles of shoes comprising a plate adapted to closely fit and conform with the toe portion of a shoe and provided with a rim which incloses a part of the edge portion of the sole, and prongs cut in said rim and which are normally in the plane of said rim, and adapted to be pressed into and embedded in the edge portions of the sole of the shoe to securely hold the protector in connection therewith.

1,343,330. HEATING AND VENTILATING APPARATUS. JAMES C. MILES, Cleveland, Ohio. Filed Nov. 3, 1919. Serial No. 335,241. 4 Claims. (Cl. 237—2.)



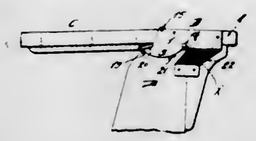
1. The combination of individual unit heating and ventilating apparatus within a chamber adjoining a room, means for drawing air into said chamber, an opening within a wall common to said room and chamber whereby the air may be discharged into the room, means providing two passageways for the air between said first mentioned means and said opening, one being adjacent to and the other remote from said wall and opening, and heating means within said remote passageway.

1,343,331. ROTARY ENGINE. EMIL A. MILLER, Oakland, Calif., assignor of one-half to Charles L. Koerner, Oakland, Calif. Filed Jan. 13, 1919. Serial No. 270,964. 9 Claims. (Cl. 121—61.)



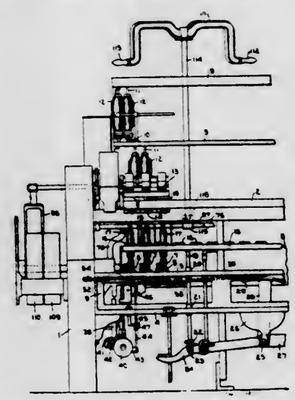
1. An engine of the character described comprising a revoluble shaft, a plurality of cylinders attached to said shaft in diametrically disposed pairs, pistons in said cylinders, rods having said pistons connected thereon, a ring having a plurality of inclined abutments lying in the plane of rotation of said cylinders, and rollers carried by the ends of said rod for contact with said abutments.

1,343,332. HINGE FOR DESK-TOPS. ROCKWELL M. MILLIGAN, St. Louis, Mo., assignor of one-fourth to George T. Meyer and one-fourth to Frederick W. Linnemeyer, St. Louis, Mo. Filed Dec. 1, 1919. Serial No. 341,760. 6 Claims. (Cl. 16—11.)



4. A hinge comprising a stationary main leaf, a movable main leaf pivoted to said stationary leaf, and a pivotal auxiliary leaf, said movable main leaf being provided with an abutment for engagement with said auxiliary leaf to impart movement thereto, and said stationary main leaf being provided with an abutment adapted to be engaged by said auxiliary leaf to restrict the pivotal action of the auxiliary leaf and the movable main leaf.

1,343,333. YARN-WINDING MACHINE. WINTHROP PARKER, Manchester, N. H. Filed Oct. 21, 1918. Serial No. 259,077. 13 Claims. (Cl. 242—43.3.)



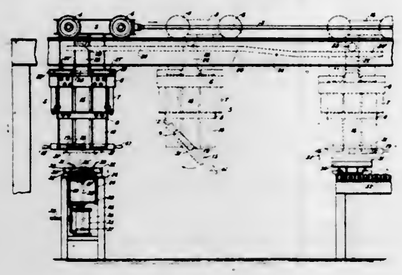
1. In a machine of the class described, comprising means for rotating a series of yarn receivers and means for causing a traverse of the yarn upon the yarn receivers; means automatically operable when the traversing means has reached any predetermined position to shift said traversing means to doffing position and means automatically operable to stop the machine and arrest the shift of said traversing means before doffing position has been reached.

1,343,334. LOCK FOR NUTS AND THE LIKE. WINSLOW S. PIERCE, Jr., Bayville, N. Y. Filed Dec. 12, 1918. Serial No. 266,386. 12 Claims. (Cl. 151—6.)



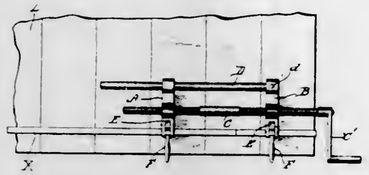
2. The combination with an apertured part of a retaining pin normally occupying an aperture in said part and having both ends extending without said aperture, and resilient means for securing said pin in said aperture, said means being attached near one end of said pin and held in a state of tension when active by non-locking engagement with the surface of the other end of said pin.

1,343,335. MOLD-ASSEMBLING CRANE. CLARENCE K. PRINCE, Westfield, Mass. Filed July 18, 1919. Serial No. 311,783. 4 Claims. (Cl. 22—31.)



4. A mold receiving frame having, in combination, oppositely located shafts, rack and pinions for operating the same, locking pins operable from said shafts for engaging a molding frame having recesses therein for receiving the pins.

1,343,336. BAND-STRETCHER. VINCENT RAGONA, Brooklyn, N. Y., assignor, by mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed July 20, 1918. Serial No. 245,911. 9 Claims. (Cl. 254—67.)

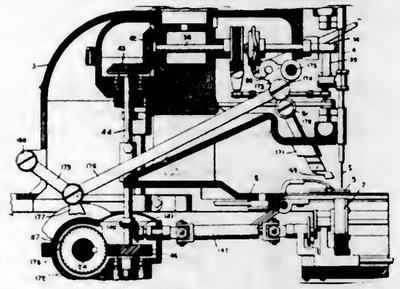


1. In a band stretcher, a plurality of crossheads each provided with a fixed jaw the active face of which is upon the under side of said crosshead, a pivoted jaw movable relatively to said active face of the fixed jaw, a cam lever mounted separately from the pivoted jaw and operable to control the latter, the axes of the movement of the pivoted jaw and the cam lever being parallel and means for imparting relative movement to said crossheads.

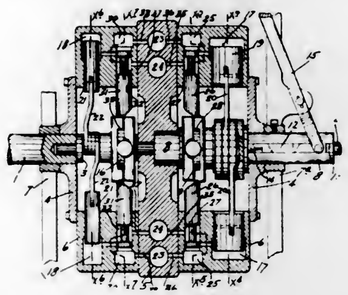
1,343,337. BUTTONHOLE-SEWING MACHINE. FRANKLIN A. REECE, Hopkinton, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Original application filed Dec. 18, 1915, Serial No. 67,683. Renewed Apr. 17, 1920, Serial No. 374,748. Divided and this application filed June 11, 1917. Serial No. 173,914. 13 Claims. (Cl. 112—68.)

1. In a buttonhole sewing machine, the combination with a frame having an overhanging arm, of a buttonhole-cutting element slidably mounted on the arm, a rocking member connected to said cutting element, a toggle element comprising two members pivotally connected together, one member being pivotally connected to said rocking member and the other member being pivoted to said overhanging arm, and means acting on said toggle element between its ends, thereby to oscillate the rocking member.

13. In a buttonhole sewing machine, the combination with stitch-forming mechanism, of actuating means therefor including a clutch, clutch-controlling mechanism for disconnecting the clutch upon completion of a buttonhole, buttonhole-cutting mechanism, a clutch for actuating said buttonhole-cutting mechanism, means controlled by the clutch-controlling mechanism to render said second clutch operative when the first-named clutch is disengaged thereby to cause the buttonhole-cutting mechanism to cut a buttonhole, and means to render said second clutch inoperative when the buttonhole has been cut.

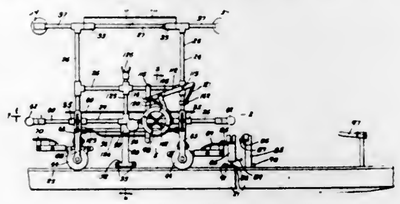


1,343,338. HYDRAULIC TRANSMISSION MECHANISM. JOSEPH W. ROSCHE, Minneapolis, Minn., assignor to The Rosche Fluid Transmission Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 20, 1916. Serial No. 92,356. 17 Claims. (Cl. 60—53.)



1. In a hydraulic transmission, the combination, of a rotary casing, primary and secondary pump cylinders with communicating conduits between said cylinders integral with said casing, pistons for said cylinders, means for rotating the casing, a hydraulic transmitting fluid arranged in said cylinders and conduits, means for connecting the secondary pump pistons to a driven shaft, and means to adjust the stroke of the primary pistons to impart a positive or a negative motion to the secondary pistons and driven shaft.

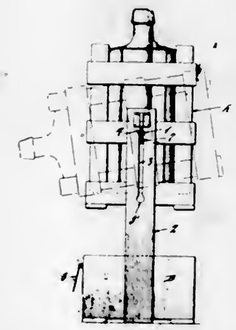
1,343,339. MACHINE FOR LAYING FABRICS. HENRY I. ROSENBLUM, New York, N. Y. Filed Sept. 18, 1918. Serial No. 254,597. 9 Claims. (Cl. 270—31.)



1. In a fabric laying machine of the class described, said machine being mounted to move longitudinally of a

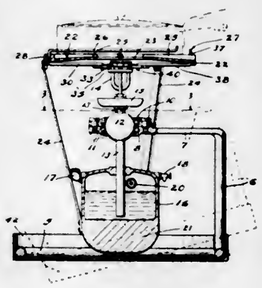
table or support, means for guiding the machine in its movement on said table, a plurality of guide and folding members movably mounted on said table at spaced intervals, and devices on said machine coöperating with said members to give the same a combined vertical and rotary movement in the operation of the machine over the table.

1,343,340. CARBOY-CASE. WALTER G. SEABOLD, Alton, Ill., assignor to Illinois Glass Company, Alton, Ill., a Corporation of Illinois. Filed Nov. 1, 1919. Serial No. 335,128. 3 Claims. (Cl. 248—57.)



2. A carboy case comprising a pair of sections extensible relative to each other, one of said sections being provided with pivots and the other section being provided with spring catches on which said pivots may turn when the sections are drawn apart.

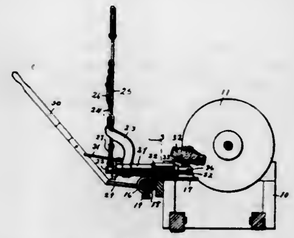
1,343,341. STOVE. CHRISTIAN J. BERGLANN, Seattle, Wash. Filed Sept. 20, 1919. Serial No. 325,252. 5 Claims. (Cl. 126—24.)



1. A ship stove comprising a bearing socket, a ball supported for universal movement within said socket, a burner pipe, a relatively heavy burner bowl on the lower end of said pipe, a burner on the upper end of said pipe, a plate arranged above said burner and means connected with said bowl for supporting said plate.

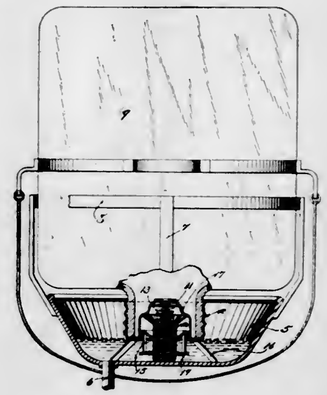
1,343,342. DISK-SHARPENER. CHARLES E. BRAY, Monroe, Iowa. Filed Aug. 25, 1919. Serial No. 319,767. 5 Claims. (Cl. 51—7.)

1. A disk sharpener, comprising a plate, a bearing thereon, a tubular member mounted for reciprocation in said bearing, a shaft mounted for rotary oscillation in said tubular member, a grinding device carried by one end portion of said shaft, and lever controlled means at the



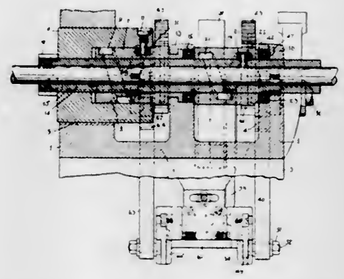
opposite end of said shaft of rocking the same in its bearing.

1,343,343. FUEL-RESERVOIR. JOHN S. BRENNAN, Milwaukee, Wis. Filed Dec. 16, 1919. Serial No. 345,167. 4 Claims. (Cl. 158—41.)



1. In a constant level fuel supply structure, an auxiliary receptacle, a main receptacle having its neck portion engaged in the auxiliary receptacle, means for supporting the main receptacle against lateral movement and means associated with the bottle neck and engaging the auxiliary receptacle to provide a vertical support for the main receptacle.

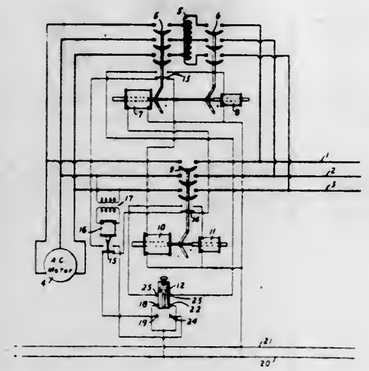
1,343,344. AUTOMATIC MACHINE. JOHN P. BROPHY, Cleveland Heights, Ohio. Filed Dec. 6, 1917. Serial No. 205,732. 7 Claims. (Cl. 29—43.)



1. In an automatic machine, the combination of a housing, a plurality of tool-carrying slides in said housing,

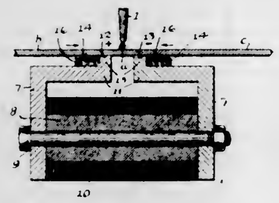
driving means in one of said slides, driving means surrounding one of said slides, and means for imparting movement to each of said driving means.

1,343,345. ELECTRICAL SYSTEM. JAMES M. BROWN, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1916. Serial No. 134,606. 12 Claims. (Cl. 172,179.)



1. The combination with an electric motor and a starting circuit and a running circuit therefor, of a two-position switch controlled in accordance with the speed of said motor for controlling said starting circuit in one of its positions and said running circuit in its other position.

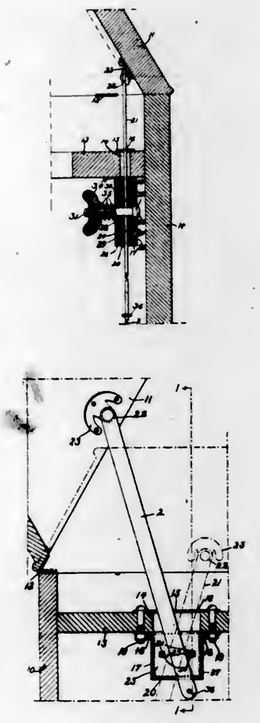
1,343,346. MAGNETIC FLAME-WELDING MACHINE. WILLIAM J. BUCKLEY, East Orange, N. J., assignor to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,469. 7 Claims. (Cl. 78—82.)



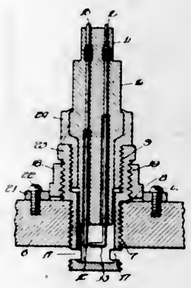
1. In apparatus for welding sheets and the like by the autogenous flame, the combination of mechanically supported means for delivering the flame upon the edges to be united, and elongated box-like electro-magnetic means embracing the plane of the seam for holding the parts of the work with their edges in opposed relation.

1,343,347. FRICTION-SUPPORT FOR LIDS. ISAAC F. BURTON, Philadelphia, Pa. Filed Dec. 4, 1919. Serial No. 342,345. 5 Claims. (Cl. 217—60.)

1. A device of the character described including a supporting bar; friction producing means having a surface for engagement with and of greater width than said bar whereby the latter can move unobstructedly in the direction of its width and length relatively to said surface of the friction means; and means for holding said surface of the friction means in engagement with said bar; substantially as described.

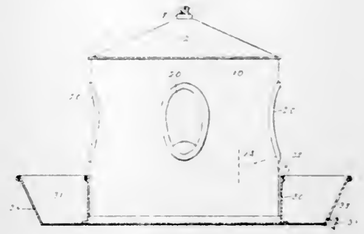


1,343,348. SPARK-PLUG CHANGER. AUGUST CAMPORINI and JOHN RENA, Chicago, Ill. Filed Sept. 26, 1919. Serial No. 326,547. 9 Claims. (Cl. 123—169.)



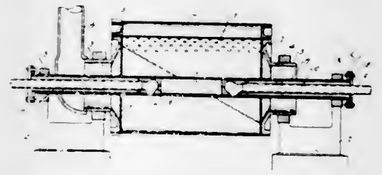
1. A device of the character described, comprising a spark plug holder adapted to be inserted in the spark plug opening of a gas engine cylinder and constructed to receive and hold a spark plug, said holder having provision for establishing communication between the spark plug and the interior of the cylinder and for shutting said spark plug off from said cylinder upon partial rotation only of said holder in the cylinder.

1,343,349. STOCK AND POULTRY FOUNTAIN AND FEEDER. SAMUEL CASPE, Des Moines, Iowa. Filed Oct. 25, 1918. Serial No. 259,731. 4 Claims. (Cl. 119—51.)



1. A device of the class described, comprising a cylindrical fountain provided with lateral drinking cups, and a feeding pan of greater diameter than said fountain and provided with an interior concentric retaining wall adapted to receive and contain said fountain, whereby an annular feeding space is formed surrounding said fountain and below said drinking cups.

1,343,350. SAND-BLAST TUMBLER. SAMUEL COBURN, Birmingham, Ala. Filed Dec. 8, 1919. Serial No. 343,349. 3 Claims. (Cl. 51—13.)



1. In a tumbler, a drum having end trunnions, one at least of which is hollow, a guard adapted to be passed through the hollow trunnion and disposed substantially centrally through the drum, means to fixedly support the ends of said guard, and a sand blast pipe entering the drum through a trunnion and projecting thereinto under and in position to be protected by the guard, said pipe having a sand blast nozzle, there being an aperture in the guard opposite said sand blast nozzle, substantially as described.

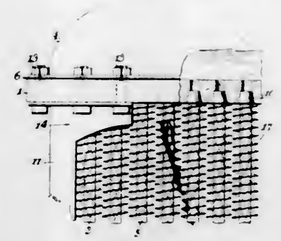
1,343,351. STACKING-PIN. EDWARD WILLIE COLLINS, Detroit, Mich., assignor, by mesne assignments, to William J. Hartwig, Detroit, Mich. Filed Dec. 24, 1919. Serial No. 347,247. 4 Claims. (Cl. 29—84.)



1. A stacking pin for sheet metal disks having two portions of different diameters, the larger portion having a longitudinal alining groove, the shoulder between the two parts of the pin curving both ways around the pin and outwardly from said groove.

1,343,352. AUTOMOBILE-RADIATOR. CLINTON COSTELLOE and SHERM G. STOLL, El Paso, Tex. Filed Feb. 19, 1918. Serial No. 218,162. 1 Claim. (Cl. 257—129.)

An automobile radiator, comprising solid top and bottom castings, each with frusto-conical recesses merging into bores with shoulders at the junctions; radiator tubes with end frusto-conical ferrules fitting the bores and abutting the shoulders for tight joints and the provision of smooth, continuous water passages between the tubes and casting bores, top and bottom water tanks with flanges and packing means between the castings and the tanks, and means holding the castings, tanks and tubes together including end bridges with flanges and bolts securing the solid castings to the bridges and the tanks.

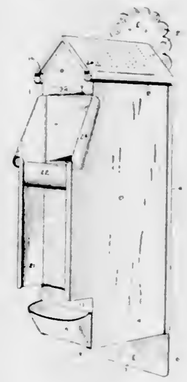


1,343,353. DETACHABLE HEEL. ALFRED V. DES MOINEAUX, Denver, Colo. Filed May 31, 1919. Serial No. 300,828. 4 Claims. (Cl. 36—36.)



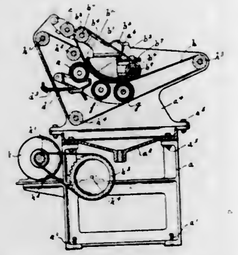
3. A detachable heel comprising, in combination, a plate for attachment to the heel portion of a sole, spaced stops associated with the plate, the heel having a plate secured thereto, interlocking means carried respectively by said plates, and means for closing the space between the stops associated with the interlocking means.

1,343,354. MATCH BOX HOLDER. MAX DETTMAN, San Francisco, Calif. Filed Aug. 14, 1919. Serial No. 317,431. 2 Claims. (Cl. 206—31.)



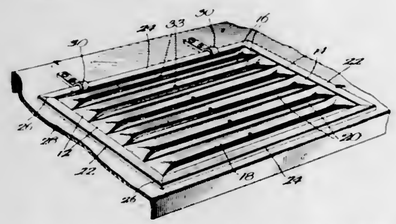
2. In combination with a match box holder comprising side walls, a back wall and a bottom wall, of a match box mounted within the holder said side walls extending forwardly of the front plane of the match box, and flanges on said side walls extending at right angles thereto and providing a space in which the front side of the match box may be rolled down behind and in engagement with said flanges.

1,343,355. MACHINE FOR DYEING FUR-SKINS. MALCOLM DICKERSON, Belleville, N. J., assignor of one-half to Societe Anonyme des Anciens Etablissements, C. & E. Chapal Freres & Cie., Brooklyn, N. Y., a Corporation of France. Filed Jan. 8, 1920. Serial No. 350,124. 6 Claims. (Cl. 8—1.5.)



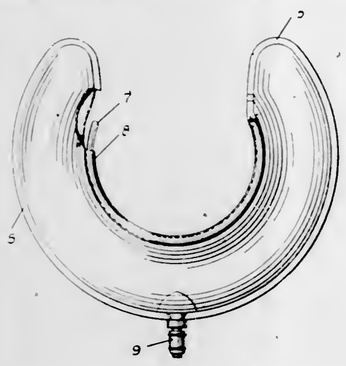
5. In a machine for dyeing fur skins, the combination of a skin carrier, comprising a frame, a curved shoe, carrying rolls and an endless belt passing about the rolls and the shoe, means to effect the travel of the belt, and means to hold the skins against the belt.

1,343,356. METALLIC FOOT-MAT. JOSEPH S. DOE, Burnham, Ill. Filed July 5, 1919. Serial No. 308,717. 2 Claims. (Cl. 15—63.)



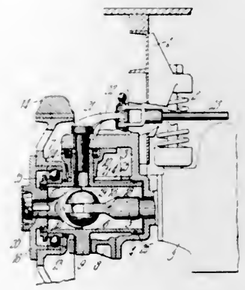
1. A metallic mat made up of an inclosing frame filled in with a plurality of parallel sided metallic bars having flat ends placed side by side within the frame while intermediate portions of the metallic bar are bent upward at their side edges to form V-shaped members with intervening spaces between them for the purposes set forth.

1,343,357. PNEUMATIC CUSHION. ANTON C. EGGERS, Brooklyn, N. Y., assignor to The Goodyear's India Rubber Glove Manufacturing Company, a Corporation of Connecticut. Filed Aug. 10, 1915. Serial No. 44,815. 3 Claims. (Cl. 5—15.)



1. A flexible pneumatic cushion adapted to be placed on a seat to support a person in sitting or reclining position, embodying vulcanized rubber and being in shape substantially a segmental annulus to form a closure for an entirely unrestricted centrally disposed space or opening of substantially circular contour and having its free ends separated to provide an uninterrupted space located at the front of the cushion of a width substantially the diameter of the opening, a valve for inflating the cushion located beyond the portions adapted to be in direct contact with the occupant and supporting seat, a casement vulcanized to the inner circumference of said annulus and terminating short of the free ends thereof, and a rigid segmental annulus disposed in said casement to prevent distortion of the annulus and to maintain a fixed relation between said spaced ends while maintaining the space at the front of the cushion uninterrupted.

1,343,358. MOTOR-DRIVEN-VEHICLE CONSTRUCTION. GEORGE R. FAIRCHILDS, Holyoke, Mass., assignor to J. Lewis Wyckoff, Edward N. White, and George F. Jenks, Holyoke, Mass., trustees, doing business as Cowan Truck Company. Filed Mar. 26, 1918. Serial No. 224,778. 7 Claims. (Cl. 180—43.)



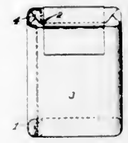
1. In a mounting for connecting a driven steerable wheel to a vehicle frame having bearing parts, in combination, a housing presenting a wheel spindle of a wheel-supporting length to fully support said wheel, a wheel, said wheel being fully supported upon said spindle, a pivot bearing and a part-circular bearing both carried by said housing and connected with the bearing parts of the frame, said parti-circular bearing having its bearing surfaces located to constitute the bearing, a steadying bearing for the pivot bearing; said length of said spindle being within the circle of which said part-circular bearing defines a part, but at the side of said pivot bearing opposite said part-circular bearing; whereby said part-circular bearing presents a portion of a completely circular bearing of long radius to effectually resist tilting of the pivot bearing, and, by its part-circular form, provides for the placing of the wheel spindle, and the wheel, close to the pivot bearing; a universal joint received in said housing, and means connecting said joint to the wheel and to the driving mechanism of the vehicle.

1,343,359. PRODUCT FOR CARBONIZING STEEL. THOMAS R. FERGUSON and ELMER L. LARSON, Chicago, Ill., assignors to Alfred O. Blaich Company. Filed Aug. 18, 1919. Serial No. 318,371. 1 Claim. (Cl. 148—25.)

A steel carbonizing ingredient consisting of charred Brazil nut shells.

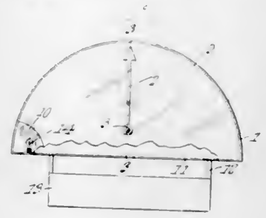
1,343,360. PACKAGE-OPENING MEANS. ROBERT T. FROST, St. Paul, Minn., assignor of one-half to Alfred E. Johnson, Waterloo, Iowa. Filed May 22, 1919. Serial No. 298,841. 1 Claim. (Cl. 206—56.)

The combination with a container for cigarettes, formed of lacerable material one end of which is foldable, of a relatively small plaque therein under part of the cigarettes only, and a string connection between the plaque and the



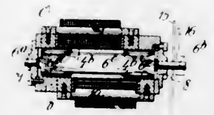
foldable part of the container, fastened along the latter appropriately to tear the latter open when the string connection is placed under endwise tension.

1,343,361. INDICATOR FOR AUTOMOBILES. JOSEPH GERKE, NICHOLAS GERKE, and EDWIN C. WILLIAMS, Milwaukee, Wis. Filed Dec. 5, 1916. Serial No. 135,178. 1 Claim. (Cl. 116—47.)



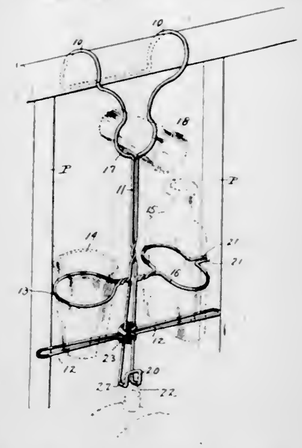
An attachment for motor vehicles including a housing having a single compartment therein, the back wall of the compartment being transparent and having a red translucent corner portion, a shiftable pointer within the compartment and visible through the transparent wall, and a single lamp housed within the compartment and concealed by the red translucent portion of the wall for illuminating the translucent and transparent portions of the wall, and for illuminating the pointer while in any one of its positions, there being an opening in the bottom of the housing for the escape of light rays from said lamp to illuminate a license tag supported below the housing.

1,343,362. ELECTRICAL SIGNALING OR INDICATING APPARATUS ESPECIALLY APPLICABLE FOR SIGNALING ORDERS AND NUMERICAL DATA. EDWARD ALFRED GRAHAM, Brockley, London, England. Filed May 16, 1919. Serial No. 297,582. 8 Claims. (Cl. 172—36.)



1. An electrical step-by-step device comprising a rotary armature having at one side of its axis two radially disposed polar projections separated axially from each other along the armature, an electro-magnet having polar extensions which, measured in the direction of the axis of the armature, are of less length than the length of the corresponding armature polar extensions and influence certain portions only of the latter, and another similar electro-magnet the polar extensions whereof are displaced in the direction of the axis of the rotary armature compared with the polar extensions of the first named electro-magnet and are adapted also to influence the said armature polar projections but on alternative portions of the same.

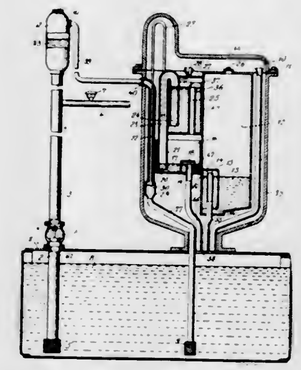
1,343,363. HANGER. FRANCIS C. HALL, Washington, D. C. Filed Sept. 8, 1919. Serial No. 322,425. 5 Claims. (Cl. 248—27.)



1. A device of the class described, comprising a stem with a suspending hook at the top adapted to catch over the horizontal bar of a bed frame, a plurality of ring form holders carried by said stem, and opposite horizontally projecting arms on the stem below the ring form holders and reaching beyond the same far enough to engage the vertical posts of the bed frame, and also positioned to support objects in said holders.

2. A device as claimed in claim 1, with a hook on the stem below said arms.

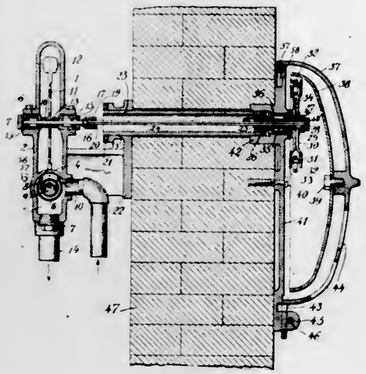
1,343,364. CHEMICAL FIRE-EXTINGUISHING APPARATUS AND CONTROL DEVICE THEREFOR. JOHN R. HAMILTON, Yonkers, N. Y., assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y., a Corporation of New York. Filed Aug. 5, 1915. Serial No. 43,716. 27 Claims. (Cl. 169—8.)



1. In chemical fire extinguishing apparatus, a wet pipe distributing system having an upper portion substantially closed under emergency conditions, a supplemental supply of extinguishing liquid connected to said distributing system and comprising a chemical mixing tank charged with carbonate extinguishing liquid and coöperating chemical mixing devices comprising a starting charge of acid and a starting siphon communicating therewith to discharge the same into said tank and having its ends sealed

with acid, a suction connection communicating with the upper part of said distributing system and having its lower end extending into the liquid in said tank, a siphon actuating pipe communicating with said starting siphon between its ends and comprising an upwardly extending liquid cut-off loop and having a downwardly extending end within said suction actuating connection at a point several times as far above the normal liquid level in said suction actuating connection as the suction head required to start said starting siphon.

1,343,365. MOTOR-GONG. JOHN R. HAMILTON, Yonkers, N. Y., assignor to Automatic Sprinkler Company of America, New York, N. Y., a Corporation of New York. Filed May 20, 1916. Serial No. 98,756. 9 Claims. (Cl. 116—74.)



1. In motor alarm devices, a motor casing, a motor shaft supported in bearings in said motor casing, an alarm support adapted to be mounted on the wall of a building, an alining connector tube secured to said alarm support adapted to extend through the wall of the building, a motor bracket connected to said motor casing and having an apertured alining collar to coöperate with said alining connector tube and be secured thereto to support said motor casing and maintain it in alinement with said alarm support, a tubular alarm shaft mounted in said alarm support and extending within said connector tube, a coupling on said motor shaft and a coöperating coupling on said alarm shaft, a non-circular ended connector shaft connecting said couplings, an alarm casing and means to removably support said alarm casing on said alarm support.

2. In motor alarm devices, a motor and a connected motor shaft, an alarm support adapted to be mounted on a wall of a building, a tubular alining connector secured to said alarm support and adapted to extend through the wall of the building, a motor bracket connected to said motor and having an apertured alining collar to coöperate with said alining connector and be secured thereto to support and maintain said motor in alinement with said alarm support, an alarm shaft mounted on said alarm support and extending within said connector to coöperate with the alarm and a coupling connecting device between said motor shaft and said alarm shaft.

3. In motor alarm devices, a motor and a connected motor shaft, an alarm support adapted to be mounted on a wall of a building, an alining connector secured to said alarm support and adapted to extend through the wall of a building, a motor bracket connected to said motor and adapted to coöperate with said alining connector and be secured thereto to support and maintain said motor in alinement with said alarm support, an alarm operating device mounted on said alarm support and a coupling connecting device between said motor shaft and said alarm.

4. In motor alarm devices, a motor casing, a motor shaft supported in bearings in said motor casing, an alarm support adapted to be mounted on a wall of a building, a tubular alining connector secured to said alarm support to extend through the wall of the building, a motor bracket connected to said motor casing and having an alining member to coöperate with said alining connector and be secured thereto to maintain said motor casing in alinement with said alarm support, an alarm shaft mounted in said alarm support and extending within said connector to operate with the alarm device and a coupling connecting device between said motor shaft and said alarm shaft.

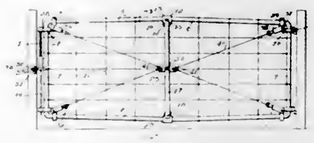
5. In motor alarm devices, a motor casing, a motor shaft supported in bearings in said motor casing, an alarm support adapted to be mounted on a wall of a building, an alining connector secured to said gong support to extend through the wall of the building, a motor bracket connected to said motor casing and having an alining member to coöperate with said alining connector and be secured thereto to maintain said motor casing in alinement with said alarm support, an alarm shaft mounted in said alarm support and a coupling connecting device between said motor shaft and said alarm shaft.

1,343,366. RAKE. ALLISON HINKLE, Sedalia, Mo. Filed Sept. 30, 1919. Serial No. 327,483. 2 Claims. (Cl. 55—146.)



1. In a self cleaning rake, a rake head including teeth, a cleaning element comprising a cleaning bar having a plurality of openings to accommodate the teeth, coiled springs being supported by predetermined teeth, said coiled springs being interposed between the lower edge of the head of the rake and the cleaning bar, means for moving the cleaning bar for compressing the springs, said means adapted to normally support the cleaning bar in close proximity to the head of the rake, and means for operating the first mentioned means.

1,343,367. GATE. DANIEL JORDAN, Harrison, Nebr. Filed Jan. 6, 1920. Serial No. 349,712. 3 Claims. (Cl. 256—73.)



1. A gate construction including a frame, longitudinally extending wires secured to the frame, transversely extending wires crossing the longitudinally extending wires, a bracket secured adjacent each corner of the frame, an anchor supported by each bracket, a central bracing element, plates supported by the central bracing element, truss wires having connection with the plates, eye bolts having connection with the anchors and truss wires, and means on one end of the truss wires for increasing the tension thereof.

1,343,368. MATERIAL FOR REINFORCING RUBBER ARTICLES AND METHOD OF MAKING THE SAME. RICHARD F. KINSLEY, East Cleveland, Ohio, assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed May 19, 1919. Serial No. 298,297. 10 Claims. (Cl. 154—52.)



1. A rubber article including a reinforcing ply of interwoven flat and round strands embedded therein and bound together by vulcanization.

1,343,369. MECHANICAL LONG-WALL COAL-LOADING CONVEYER. ALBERT E. KNEE, Bluefield, and GORDON B. HOPKINS, Lex, W. Va. Filed July 21, 1919. Serial No. 312,345. 14 Claims. (Cl. 193—2.)



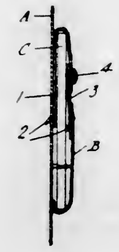
1. In an apparatus of the character described the combination of cages adapted to be disposed adjacent to a mine face, carriages movable therein carrying horizontal pulleys, means for actuating said pulleys and arc-shaped runways, an endless cable on said pulleys, a series of individual chains or ropes connected at intervals with said endless cable, and a series of drag buckets connected to the free ends of said individual chains, movable through and between said runways and operative to gather coal shot down from said mine face and discharge it at a point of delivery.

1,343,370. BREAST-DRILL. PHILIP JOSHUA LE SUEUR, Brighton, England. Filed Dec. 7, 1917. Serial No. 205,994. 2 Claims. (Cl. 77—32.)



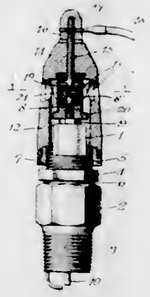
1. A breast drill comprising a frame, a drill spindle rotatively mounted therein, and having a bevel pinion thereon, a hand wheel mounted on the frame, and having gear teeth for engagement with the pinion, a rod slidably mounted on the frame, and having a work table attached to the lower end, a feed screw in engagement with said rod, a ratchet wheel mounted on the feed screw, ratchet mechanism mounted on the frame for actuating the feed screw, and a cam on the said geared hand wheel for operating said ratchet mechanism.

1,343,371. POCKET-GUARD. CHARLES H. LONG, Cedar Rapids, Iowa. Filed Feb. 5, 1918. Serial No. 215,506. 2 Claims. (Cl. 2—151.)



1. A pocket guard comprising flexible strips of different lengths adapted to lap at one end, means upon the lapping ends of the strips for detachably connecting them together, and means carried by the other ends of the strips for detachably securing them to the front and back portions respectively of a pocket, both of said strips being separate from but adapted to contact with and retain an article within the pocket.

1,343,372. ATTACHMENT FOR SPARK-PLUGS. WILLIAM J. O'GORMAN, New York, N. Y. Filed May 11, 1918. Serial No. 233,830. 3 Claims. (Cl. 175—183.)
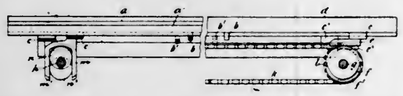


2. In combination with a standard spark plug having an insulating body held in a metal shell by a removable nut provided with an upper exteriorly threaded flange and a single conducting rod extending through the insulating body, a hollow cap having an interiorly threaded lower end detachably secured to the threaded flange of the nut and inclosing the outer end of the insulating body, a main wire carried by said cap and forming with the conducting rod of the spark plug an artificial spark gap, said cap being provided with openings whereby the artificial spark gap may be observed.

1,343,373. CONVEYING DEVICE. CARSTEN PEDERSEN, Copenhagen, Denmark. Filed Mar. 4, 1920. Serial No. 363,133. 6 Claims. (Cl. 193—60.)

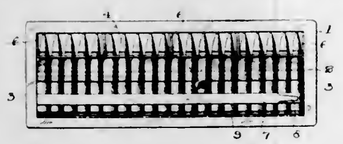
1. A conveying device comprising in combination, a plurality of horizontal grates each comprising spaced

bars, the bars of one grate being interposed with and movable between the bars of the other grate; means for



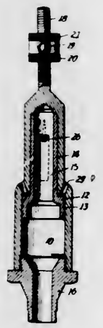
alternately moving the grates vertically; and means separate from the last named means for horizontally reciprocating the grates alternately.

1,343,374. AMMUNITION-RECEPTACLE. JOHN S. PEOPLES, Washington, D. C. Filed Aug. 6, 1918. Serial No. 248,644. 10 Claims. (Cl. 206—3.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



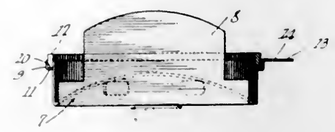
1. In an ammunition receptacle, the combination with a container designed to accommodate a cartridge filled ammunition belt, of means within the container and contacting one of its walls for maintaining the belt and cartridges in relative position.

1,343,375. AUTOMATIC ADDITIONAL-AIR VALVE FOR COMBUSTION-ENGINES. ALFRED EDWARD PEPPERCORN, Forbes, New South Wales, Australia. Filed July 29, 1918. Serial No. 247,190. 3 Claims. (Cl. 251—145.)



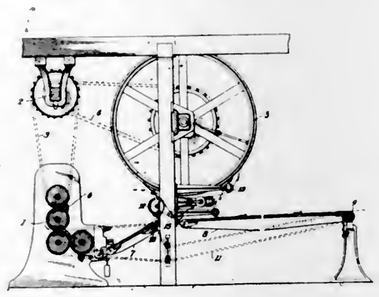
1. An air admission valve automatically responsive to fluctuations in sub-atmospheric pressure in the manifold of a combustion engine, comprising two coaxial intercommunicating cylinder chambers of substantially different diameters with an air vent at the base of the larger chamber and a closed end on the smaller chamber, a piston fitted to said larger chamber, a plunger extension on said piston fitted to said smaller chamber, the piston and plunger having a tubular passage therethrough, a nipple connection for an engine manifold on the end of the said larger chamber, a valve face on the plunger end and a corresponding valve seating in the end of said smaller chamber, slotted ports in the side of the smaller chamber, a draw yoke carried by said plunger and having its ends projecting through said slotted ports, a stud extension rearward of the smaller chamber, a carrier yoke adjustably mounted thereon, and a pair of helical springs in tension having their ends respectively attached to said draw yoke and said carrier yoke.

1,343,376. BAFFLE-PLATE. EDWARD THOMAS PERRY, Detroit, Mich., assignor of one-half to Henry M. Wiegand, Detroit, Mich. Filed Jan. 7, 1920. Serial No. 349,995. 1 Claim. (Cl. 184—13.)



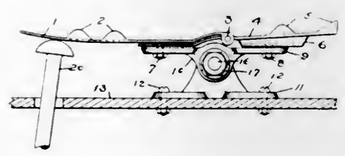
In combination with the open end of an engine cylinder, a baffle plate for substantially closing the open end of the cylinder, the baffle plate having a sectional bottom, each section being concaved, a relatively long inwardly extending flange having connection with each section, the flanges being disposed in spaced relation with each other, and the walls of said baffle plate being provided with openings adjacent the lower edges thereof for permitting oil to pass from within the baffle plate.

1,343,377. METHOD OF TREATING VULCANIZABLE PLASTICS. JOHN J. SHEA, Hartford, Conn., assignor to The Hartford Rubber Works Company, a Corporation of Connecticut. Filed Apr. 24, 1915. Serial No. 23,560. 4 Claims. (Cl. 18—50.)



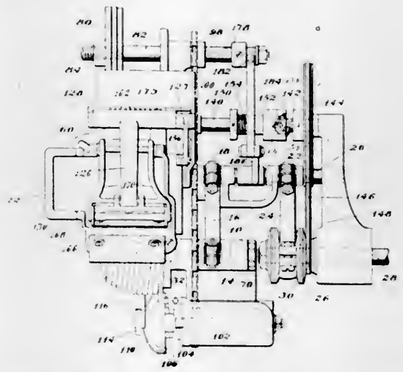
1. In the manufacture of sheet-like articles from hot plastic rubber, the art of reducing the shrinkage normally occurring during the cooling of the hot article, which consists in subjecting the article to the action of an agent adapted to rapidly absorb heat from the article.

1,343,378. FOOT-THROTTLE CONTROLLING MECHANISM. FREDERICK C. SMITH, Marion, Ohio. Filed June 13, 1917. Serial No. 174,491. 13 Claims. (Cl. 74—81.)



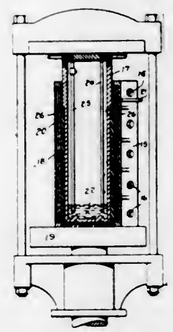
1. In a foot throttle controlling device, the combination of a foot plate provided with a hinged heel and toe portion, a bearing for supporting the heel portion, said bearing provided with a friction device for maintaining the heel portion in any desired position independent of the toe portion.

1,343,379. FINISHING-MACHINE. JOHN F. STANDISH, Winthrop, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 1, 1917. Serial No. 199,655. 74 Claims. (Cl. 12—78.)



1. In a heel finishing machine, a series of work-rubbing members, the work and the rubbing members traveling relatively to one another to present successive portions of the work to the rubbing action, and means for producing a relative movement of separation between part of the rubbing members and the work during the travel whereby said part of the members are wholly prevented from acting on predetermined portions of said work opposite which they are situated.

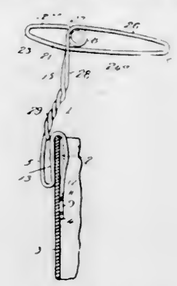
1,343,380. HARD-RUBBER BATTERY-JAR AND METHOD OF MAKING THE SAME. HARRY WEIDA, Highland Park, N. J., assignor to The India Rubber Company, a Corporation of New Jersey. Filed Oct. 26, 1916. Serial No. 127,757. 2 Claims. (Cl. 204—29.)



1. A battery jar consisting of integral unitary side and bottom walls of molded hard rubber throughout, said rubber having the characteristics of hard rubber composition vulcanized while being subjected to high pressure from confining members in that it possesses high density throughout.

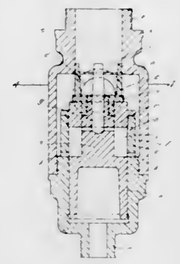
1,343,381. BRUSH-HOLDER. MOSES AFRANEL, New York, N. Y. Filed Sept. 19, 1919. Serial No. 324,861. 4 Claims. (Cl. 248—49.)

3. A holder comprising a continuous wire having a stem portion provided with supporting means, a jaw member and a finger piece each having two parts of the wire bent reversely at opposite ends, the wire being coiled at one side of said member and finger piece, said wire continuing from said coil in a jaw member and a finger piece



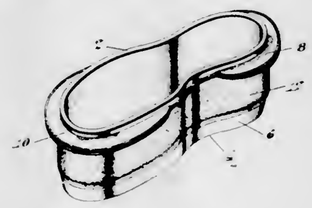
each having two parts of the wire bent reversely at opposite ends and respectively spaced from the first named jaw member and finger piece.

1,343,382. AUTOMATIC DRAIN AND PRESSURE-RELIEF VALVE. JOHN EDWARD ARMSTRONG, Newcastle-upon-Tyne, England. Filed Feb. 4, 1919. Serial No. 274,970. 4 Claims. (Cl. 121—134.)



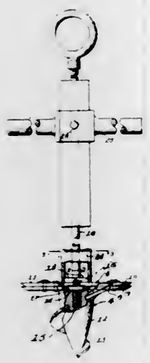
1. In an engine cylinder drain valve device, a normally open valve controlling the outlet of the condensation water from the engine cylinder, a piston operatively connected to the valve and movable in a cylinder; means for admitting fluid pressure to the piston to close the valve on steam being admitted to start the engine, and means for causing some of the condensation water to be trapped to prevent the closure of the said valve until the engine has made some revolutions and has expelled the condensation water to the outlet.

1,343,383. SOLE-CUTTING DIE. THOMAS W. BILELLO, Long Island City, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 14, 1917. Serial No. 148,601. 11 Claims. (Cl. 164—29.)



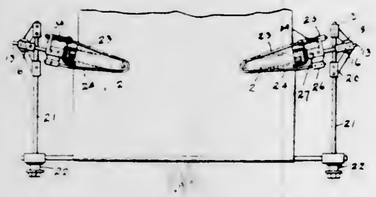
1. A cutting die having a piece of sheet rubber secured to its outer surface between its pressure receiving and cutting edges and furnishing an unbroken surface to retain the grasp of the operator.

1,343,384. EXPANDING SCREW-ANCHOR. JASPER BLACKBURN, Webster Groves, Mo. Filed July 16, 1919. Serial No. 311,295. 2 Claims. (Cl. 189—92.)



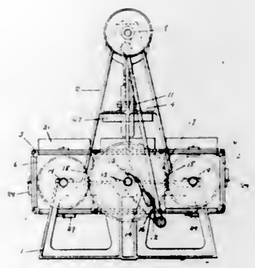
1. An anchor comprising a boring member in the form of a disk provided with a slot, a conical projection formed on the under side of the disk, a helix encircling the conical shaped portion, and integral with the conical shaped projection and disk, expanding blades provided with slots pivotally secured to the upper surface of the disk, rivets carried by the disk and located in said slots for limiting the outward movement of said blades, an anchor rod screw seated in the conical projection formed on the disk, a collar provided with cam arms carried by the anchor rod, rectangular undercut projections formed on the expanding blades adapted to receive a wrench for inserting the anchor into the ground, said cam arms being completely housed in the under cut projections, and means for rotating the anchor rod and cam arms to force the expanding blades outwardly after the anchor has been seated in the ground.

1,343,385. WEB STRETCHING AND GUIDING DEVICE. JOHN T. BOLTON, New Haven, Conn., assignor of one-half to The Forsyth Dyeing Co., New Haven, Conn., a Corporation of Connecticut. Filed Nov. 15, 1918. Serial No. 262,718. 9 Claims. (Cl. 26—18.)



7. In a web-stretching and guiding device, a roll mounted to be rotated by contact with the traveling web, the axis of said roll being set at an angle inclined to the plane of the normal surface of the traveling web, and a guide-bar for controlling the extent of surface contact of the web with the roll.

1,343,386. MOLDING-MACHINE. JULIUS E. BOMBERG, Detroit, Mich. Filed Feb. 14, 1919. Serial No. 276,931. 12 Claims. (Cl. 22—20.)

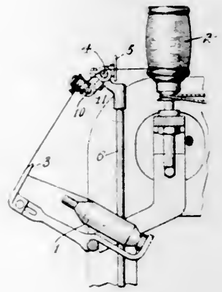


1. In a molding machine, the combination with a frame, of an endless series of plates pivoted to each other and movably mounted on said frame, said plates forming a continuous molding table and an endless conveyer.

1,343,387. SUBSTITUTE FOR TURPENTINE AND PROCESS OF MAKING SAME. ROBERTO C. BONE, Managua, Nicaragua, assignor of one-half to Esteva-Ruiz & Co., New York, N. Y., a Partnership composed of Frank M. Wheaton and M. A. Esteva. Filed Mar. 14, 1918. Serial No. 222,293. 7 Claims. (Cl. 134—36.)

6. A process for producing a substitute for turpentine comprising treating kerosene with calcium carbid and water in the presence of each other, allowing the mixture to settle, separating the liquid from the solid content of the mixture, then adding chlorid of lime and hydrochloric acid to the separated liquid, allowing the resultant mixture to stand, then separating the supernatant liquid and to the separated liquid adding calcium oxid.

1,343,388. YARN TENSION. JAMES H. BOYD, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed May 18, 1918. Serial No. 235,230. 3 Claims. (Cl. 28—21.)



1. A yarn tension comprising a barrel and a capstan post providing a circumferential course for the yarn around a portion of the barrel surface to the post, around the latter and back over the barrel surface in the opposite direction, said post being circumferentially adjustable with reference to the barrel and means for traversing the yarn in the direction of the barrel axis.

1,343,389. GOVERNOR. BROR E. CEDERSTROM, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed May 3, 1915. Serial No. 25,657. 3 Claims. (Cl. 188—151.)

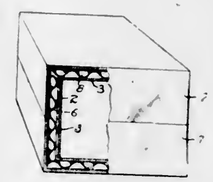


3. In a governor, a shaft, a brake disk mounted to turn with said shaft and slidable thereon, a fixed brake member on one side of said brake disk, a liquid containing chamber on the other side thereof, means utilizing gaseous fluid for exerting pressure on said liquid to apply the brake disk to the brake member, and resilient means for returning the brake disk to inoperative position.

1,343,390. PROCESS OF FORMING MANGANESE PEROXID. HAROLD C. CHAPIN, Cleveland, Ohio, assignor to National Carbon Company, Inc., a Corporation of New Jersey. Filed June 29, 1917. Serial No. 177,697. 9 Claims. (Cl. 23—13.)

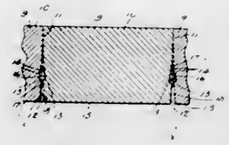
2. Process of making a battery depolarizer comprising subjecting manganese carbonate admixed with a chlorin containing salt, to an oxidizing roast.

1,343,391. PACKAGE FOR ICE-CREAM. WALTER A. HAAS, San Francisco, Calif., assignor to Geo. Haas & Sons, San Francisco, Calif., a Corporation of California. Filed Dec. 2, 1919. Serial No. 341,881. 7 Claims. (Cl. 229—14.)



1. A package comprising a ribbon-like detached strip for encircling the sides of the contents of the package, separate flanged caps for fitting over the opposite edges of the strip to form top and bottom closures for the package, and a box for inclosing said capped strip

1,343,392. SHIP CONSTRUCTION. ROBERT F. HARTUNG, Chicago, Ill. Filed Nov. 20, 1918. Serial No. 263,261. 1 Claim. (Cl. 114—86.)



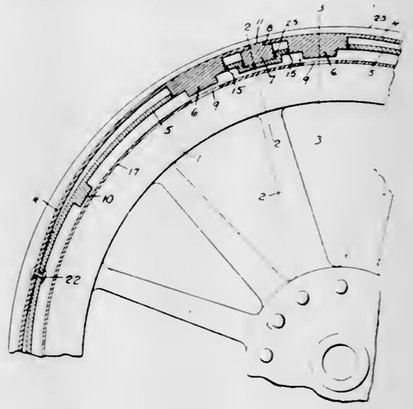
The combination of two planks, having opposing edges thereof abutting adjacent to their inner surfaces and beveled from such abutting portions to the outer surfaces, recesses provided in said edges intermediate the depths of the beveled portions thereof, and fibrous calking material in said recesses and in the spaces between the beveled surfaces above and below the recesses.

1,343,393. METHOD OF AND APPARATUS FOR DETECTING AND OBSERVING OBJECTS IN THE DARK. SAMUEL O. HOFFMAN, San Francisco, Calif., assignor of one-third to Albert Abrams, San Francisco, Calif. Filed Apr. 8, 1919. Serial No. 288,635. 12 Claims. (Cl. 250—1.)



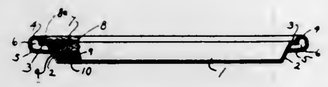
3. The method of producing a visible image of a body in the dark which consists in forming an image of the body in thermal radiation on a thermo-sensitive body and translating the effect of such image on said thermo-sensitive body into a visible image.

1,343,394. DEMOUNTABLE RIM. OSCAR L. INGHAM, Walla Walla, Wash. Filed Dec. 26, 1918. Serial No. 268,410. 10 Claims. (Cl. 152—21.)



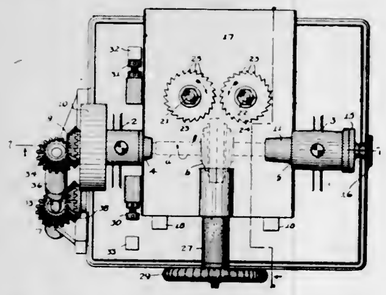
1. The combination of an inflatable tire, a wheel body and a rim, the rim carrying arms adapted to engage, and to be held by, the wheel body through the pressure of the air in the tire.

1,343,395. PIE-PAN. GUSTAVUS A. KINKEL, Buffalo, N. Y. Filed Aug. 8, 1919. Serial No. 316,093. 3 Claims. (Cl. 53—6.)



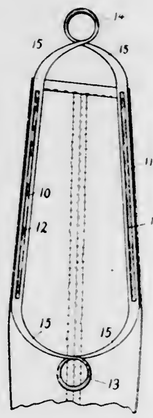
1. In a pie pan, a bottom portion, an annular side wall integral with said bottom portion, and an annular extension to the top part of said side wall, being radially bent downwardly and inwardly to form an annular air chamber next the top part of said side wall.

1,343,396. GEAR-CUTTING MACHINE. JOHN C. KOPF, Bellevue, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 24, 1919. Serial No. 306,288. 8 Claims. (Cl. 90—4.)



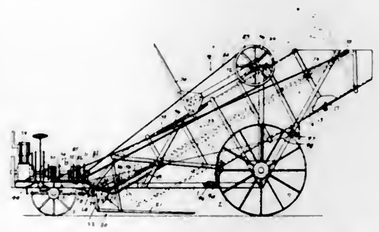
1. The method of cutting a double-faced pinion of the character described, which comprises revolving a blank between and against the peripheries of a pair of toothed cutting-disks having their axes at the same side of the axis of the blank and perpendicular to a plane containing such axis, while revolving the cutters in opposite directions in predetermined low ratio to the revolution of the blank, and producing relative feed transversely to the axes.

1,343,397. GARMENT SUPPORT AND STRETCHER. MARIUS LETH, Omaha, Nebr. Filed Jan. 12, 1920. Serial No. 350,898. 1 Claim. (Cl. 223—19.)



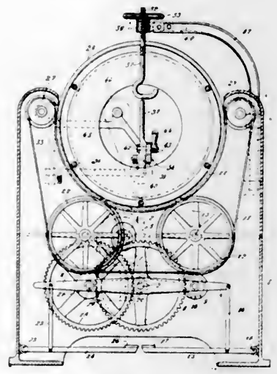
A one-piece garment stretcher comprising a pair of spaced-apart bars having pressed-up reinforcing ribs converging upwardly, said bars adapted to fit edgewise within a garment, curved arms at the upper ends of the bars crossing each other and looped to provide a coil spring serving to force the arms yieldingly apart, curved arms on the lower wider ends of the bars crossing each other and looped downwardly to provide a coil spring for resiliently spreading the bars at their lower ends, said loops adapted to form finger holds at the upper and lower ends of the stretcher.

1,343,398. BUCKRAKE AND STACKER. ARTHUR MILTON MACKERSIE, San Jacinto, Calif. Filed Apr. 3, 1919. Serial No. 287,292. 9 Claims. (Cl. 214—65.)



2. A buckrake and stacker comprising a wheeled vehicle with a storage chute, a buckrake, and means for lowering the buckrake to a horizontal gathering position and then elevating it and moving it into the chute to fill the latter.

1,343,399. MACHINE FOR BUILDING TIRE CASINGS AND TUBES. WILLIAM R. MAJOR, Coshocton, and FRANK H. GROVE, Columbiana, Ohio, assignors to The Banner Machine Company, Columbiana, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 320,970. 7 Claims. (Cl. 154—10.)



1. A tire building machine comprising an annular channel shaped form within which the tire is built, means for revolving the form as the tire is built therein, and means for stitching the tire within said revolnble form.

1,343,400. PROCESS FOR SEPARATION OF CONSTITUENTS OF BRINES. HARRY W. MORSE, Trona, Calif., assignor to American Trona Corporation, Trona, Calif., a Corporation of Delaware. Filed Nov. 7, 1918. Serial No. 261,565. 3 Claims. (Cl. 23—22.)

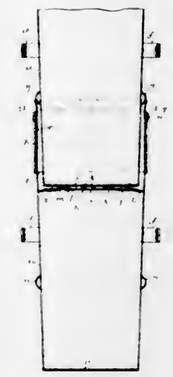
1. The process of separating potassium chlorid and borax from brines containing the same together with sodium chlorid and other salts, which consists in evaporating such brines to a density such that the remanent

liquor is in such ratio to the precipitated salts that substantially all the potassium chlorid and borax of the salts will dissolve in the liquor when salts and liquor are heated together to 90 to 100° C. without redissolving of any considerable portion of the other salts present; heating salts and liquor together to 90 to 100° C., separating the residual salts from the liquor and cooling the liquor to cause crystallization of potassium chlorid and borax.

1,343,401. PROCESS FOR SEPARATING POTASSIUM COMPOUND FROM BRINES. HARRY W. MORSE, Trona, Calif., assignor to American Trona Corporation, Trona, Calif., a Corporation of Delaware. Filed Nov. 26, 1918. Serial No. 264,339. 2 Claims. (Cl. 23—13.)

1. The process of separating potassium chlorid from solutions containing the same, together with borax, which consists in subjecting such solution to sufficiently rapid cooling action to separate potassium chlorid without separation of borax in solid form.

1,343,402. CHEESE-HOOP. RUDOLPH J. J. MUELLER, Sheboygan, Wis., assignor to Universal Oxygen Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Jan. 7, 1918. Serial No. 210,621. 2 Claims. (Cl. 31—21.)

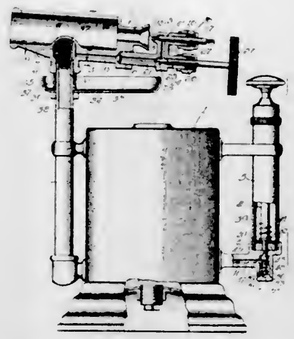


1. A metal cheese hoop having the edge at its open end folded outwardly, downwardly and flatly against the body and forming a reinforcing band with a rounded rim giving the hoop a flaring mouth, the hoop being coated with noncorrosive metal which closes the joint between the body and downwardly folded edge.

2. A sheet metal cheese hoop comprising a body having a cylindrical section forming therewith an internal shoulder for a bandage sleeve, the open end of the cylindrical section having its edge folded down flat against the outside of said section into a reinforcing band which gives the hoop a rounded rim and flaring mouth, the hoop being coated with noncorrosive metal which closes the joint between the downwardly folded edge and outside of said section.

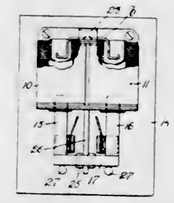
1,343,403. TORCH. WILLIAM F. PAGEL, Sycamore, Ill. Filed July 26, 1919. Serial No. 313,547. 6 Claims. (Cl. 158—33.)

1. In a blow pipe torch, an elongated cylindrical flame tube, the entrance end thereof being contracted, a fuel feed nozzle in alinement with said tube and adapted to direct fuel through said contracted end to form a flame within the tube, a hollow baffle projecting into one side of the tube substantially midway between its ends and against which the flame is adapted to impinge, and means



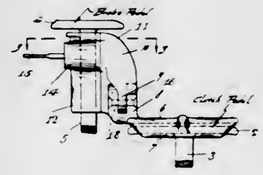
for forcing liquid fuel through said hollow baffle to be vaporized as it passes to said nozzle.

1,343,404. ALTERNATING-CURRENT ELECTROMAGNET. GRANVILLE E. PALMER, Boston, Mass., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass., a Corporation of Maine. Filed Dec. 10, 1918. Serial No. 266,132. 10 Claims. (Cl. 175—341.)



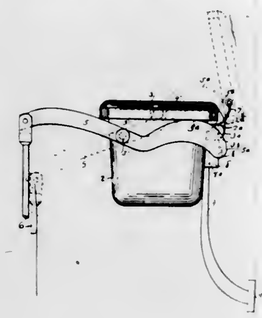
1. An alternating-current electromagnet, comprising a pair of solenoids, and an armature therefor consisting of separable oppositely arranged movable U-shaped members which, when the solenoids are energized, furnish a closed magnetic field, and are mechanically disconnected from all stationary portions of the electromagnet.

1,343,405. AUTOMOBILE-PEDAL LOCK. BRADY PARMENTER, Birmingham, Ala., assignor, by direct and mesne assignments, to A. L. Atwood, Birmingham, Ala. Filed Sept. 29, 1919. Serial No. 327,318. 4 Claims. (Cl. 70—126.)



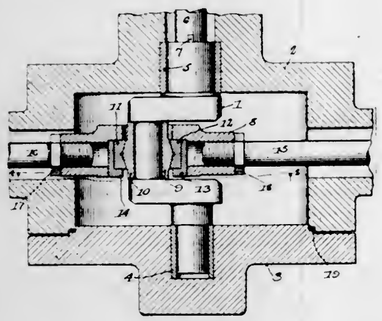
1. An anti-theft device for automobiles comprising, in combination, undercut means to slip over and interlock with a clutch pedal, in combination with means adapted, while said clutch pedal is depressed, to embrace the shank of an adjacent pedal and form a chock between the two pedals to prevent sufficient relative movement between them to permit the clutch pedal to engage the clutch.

1,343,406. SANITARY CUSPIDOR. JOHN PLUCIENSKI, Syracuse, N. Y. Filed Mar. 22, 1920. Serial No. 367,956. 1 Claim. (Cl. 4—39.)



A cuspidor, comprising a hollow body having an open top, a hollow cover hinged to the rear side of the body, said cover having a continuous depending flange overlapping said open top when the cover is closed, a lever pivoted to one end of the body having a curved portion in frictional engagement with the bottom edge of said depending flange adapted when rocked in one direction to swing said cover upwardly through an arc of less than 90°, tension means for moving said cover and said lever in the opposite direction, and means for mounting said body upon a supporting bracket.

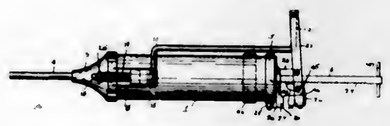
1,343,407. CRANK-MOUNTING FOR ICE-MACHINES OF THE COMPRESSION TYPE. HERMAN W. ROTTEL, Milwaukee, Wis. Filed Dec. 29, 1919. Serial No. 348,162. 2 Claims. (Cl. 74—5.)



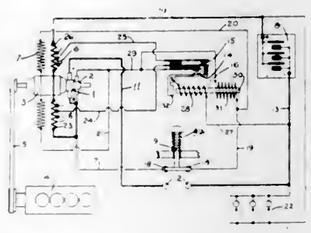
1. A crank mounting capable of use in an ice machine mounted in a crank case and which consists in a crank, a cross-head straddling said crank and reciprocated thereby, a shaft or shafts attached to said cross-head and reciprocating therewith, a removable crank case head and means for detachably mounting the said crank on the crank shaft so as to permit of the same being removed from the crank case through the opening left by the removal of the crank case head.

1,343,408. DEVICE FOR APPLYING GLAZING COMPOUNDS AND THE LIKE. HERBERT B. SABIN and ORIN C. SABIN, Cleveland Heights, Ohio. Filed June 13, 1919. Serial No. 304,077. 10 Claims. (Cl. 18—3.5.)

2. In a device of the character described, the combination of a barrel, a piston therein, a toothed piston rod, a handle on said barrel, operating means including pawl and ratchet mechanism adapted to engage with the teeth on said piston rod to move the same, said operating mechanism being disposed in operative relation to said handle, and carrying means mounted on said barrel and adapted to encircle the arm of the operator.

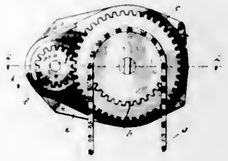


1,343,409. ELECTRIC STARTING AND GENERATING SYSTEM. ELMER H. SCHWARZ, Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed May 16, 1916. Serial No. 97,783. 8 Claims. (Cl. 290—31.)



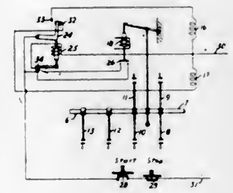
5. In a starting and generating system for internal-combustion engines, the combination with a dynamo and a battery having circuit connections therewith; of a series-field winding for the dynamo; a shunt-field winding for the dynamo; devices for cutting out the operation of the series field at the end of the motor operation and for bringing into operation the shunt field at the beginning of the generating operation; and automatic means acting subsequently to select a portion of the series-field windings during the generating operation.

1,343,410. WINDOW-LIFTING APPARATUS. EMORY GLENN SIMPSON, CHARLES JOHN SCHMIDT, and FRANK PHILIP CARSTENS, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 1, 1919. Serial No. 327,660. 4 Claims. (Cl. 57—116.)



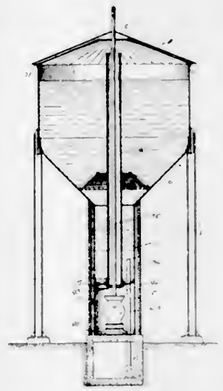
1. In a window lift, the combination of means for lifting a window, including a pinion, and an irreversible driving connection therefor which turns freely when actuated to turn the pinion but which locks when the pinion is turned to actuate the driving connection, said irreversible driving connection comprising a cylindrical box, an actuating member connected with the pinion and provided with recesses, rolling members engaging in said recesses, a second actuating member connected with a crankshaft and which can actuate the first actuating member by engaging the said rolling members, said recesses being so formed that an attempt to turn the first actuating member through the gear will thrust the rolling members out to jam with the cylindrical box.

1,343,411. STARTING MECHANISM FOR ELECTRIC MOTORS. GEORGE E. SLOCUM, Cleveland, Ohio, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1917. Serial No. 153,612. 5 Claims. (Cl. 172—289.)



1. In a motor-control system, the combination with an induction motor, a source of energy therefor and a transformer for supplying a reduced starting voltage for said motor, of means for connecting said motor to said transformer, and a double-throw switch normally occupying an inoperative position and adapted, in accordance with the value of the current traversing said motor, to occupy two operative positions, said switch serving to maintain said connection in one of its operative positions and serving to break said connection and connect said motor to said source in its other operative position.

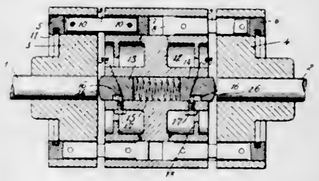
1,343,412. TANK. KENNETH I. SMALL, New York, N. Y., assignor to George T. Horton, Chicago, Ill. Filed June 23, 1919. Serial No. 306,227. 5 Claims. (Cl. 299—141.)



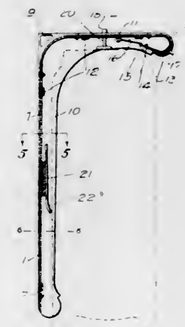
1. In a water tank, a heating chamber with a heat conducting drum extending from said chamber through the water in the tank, and a heating device in said heating chamber with a chimney or flue extending through said heat conducting drum.

1,343,413. FLEXIBLE COUPLING DEVICE. ROBERT A. SMITH, Mahwah, and JOHN J. SERRELL, Elizabeth, N. J., assignors to Smith & Serrell, Mahwah, N. J., a Copartnership consisting of said Smith and said Serrell. Filed Aug. 20, 1919. Serial No. 318,694. 7 Claims. (Cl. 64—96.)

1. In flexible couplings, outer coupling members and an interposed floating ring formed with coupling bearing holes, resilient coupling pins slidably mounted in said holes to yieldingly connect said coupling members, said floating ring being formed with substantially axial recesses, centering shaft members in said recesses and normally spring pressed outward, a restraining stop member coöperating with a control recess formed in each of said centering members so that when said floating ring is displaced from its normal central position said centering members exert a spring restoring action thereon.



1,343,414. RADIATOR-SHIELD. CHRISTIAN W. G. SODEMANN, St. Louis, Mo. Filed June 2, 1917. Serial No. 172,371. 1 Claim. (Cl. 237—79.)



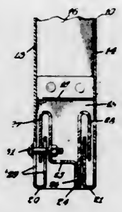
In a radiator shield, the combination of two side-brackets; a main body section mounted between said brackets and forming a vertical wall, a top, and a forwardly projecting lip; a dust-collecting trough mounted beneath and contacting with said lip; a clamp arranged to be detachably mounted between two coils of a radiator and to engage and hold one of said brackets at a predetermined distance from the radiator; and an inwardly projecting foot carried by each of said brackets and arranged to rest on top of the radiator.

1,343,415. DELAY-ACTION FUSE. FRANK DESMOND SPRAGUE and PHILIP WHALLEY ALLISON, New York, N. Y. Filed Oct. 5, 1917. Serial No. 194,847. 36 Claims. (Cl. 102—39.)



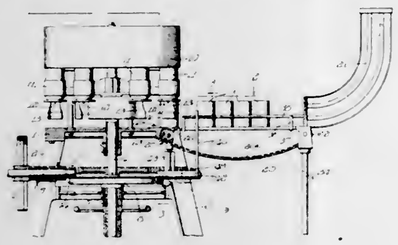
1. In a fuse for a high explosive projectile, the combination of a booster charge, a firing element embodying a detonator for causing the explosion of the booster charge and brought into action by a decrease of the deceleration of the projectile, means whereby the booster charge and detonator are normally maintained in a non-explosive relation, and means for establishing explosive relation between the booster charge and detonator prior to said action of the firing element.

1,343,416. SLIDING DOOR. PAUL F. STACKE, Jersey City, N. J. Filed July 30, 1917. Serial No. 183,484. 3 Claims. (Cl. 20—22.)



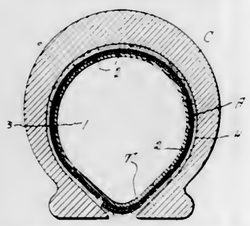
1. In a sliding door having a body with a recessed lower edge, a guide with a transverse plate having a depending flange movably held in the recess of the body and adapted to close the space under the door when mounted as well as to compensate for variations of the space.

1,343,417. FEEDER FOR CAN-FILLING MACHINES. CLARENCE E. STEERE, Milwaukee, Wis., assignor to Henry Scarborough, Milwaukee, Wis. Filed Jan. 17, 1918. Serial No. 212,245. 4 Claims. (Cl. 193—1.)



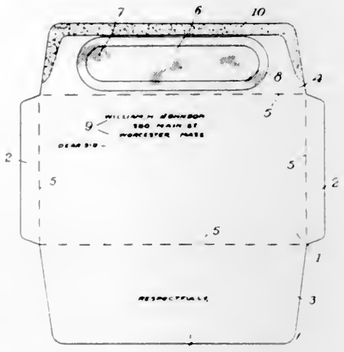
1. A feeding mechanism of the class described including a conveyer, means movable transversely of the path of the conveyer for carrying articles laterally from the conveyer, means synchronized in movement with said first named means for holding work articles against movement on the conveyer, and a stop engageable by articles on the conveyer to hold articles for engagement by said first named means, said stop being adjustable in the direction of movement of the conveyer.

1,343,418. ARMOR FOR INNER TUBES. HOWARD MACK STEVENS, Indianapolis, Ind. Filed Feb. 9, 1920. Serial No. 357,304. 1 Claim. (Cl. 152—18.)



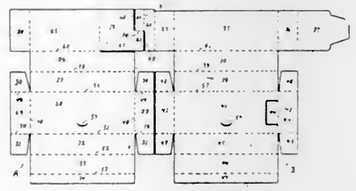
An armor for an inner tube comprising a lamination of elastic material adapted to extend around the tube, said lamination being provided with openings, a second lamination of elastic material overlying and secured to the outer face of the elastic lamination, and a covering of unwoven fiber carried by the outer face of the second lamination.

1,343,419. MAILING SHEET OR BLANK. WILLARD E. SWIFT, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Jan. 28, 1918. Serial No. 214,154. 1 Claim. (Cl. 229—92.3.)



A mailing sheet having a rectangular body portion with side flaps and a back flap of such width as to just disclose an address field at the top of said body portion when said back flap is folded over thereon, and a seal flap having an opening immediately above its line of fold for registering with the address field on said body portion when folded over thereon, said seal flap then overlapping portions of the side flaps and of the back flap.

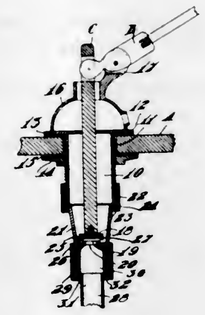
1,343,420. CARTON AND BLANK THEREFOR. ROBERT A. TAYLOR, Cincinnati, Ohio. Filed Dec. 20, 1919. Serial No. 346,405. 8 Claims. (Cl. 206—44.)



1. A carton blank comprising a lid member and a container member set up by a folding operation, the blank for said carton being cut and scored to provide a hinge on which the lid may be closed upon the container and another hinge by which the lid may be introduced beneath the container to support the container in an inclined position for display purposes.

1,343,421. BALL-COCK FOR WATER-CLOSET TANKS. EDGAR JOHN TERRY, St. John, New Brunswick, Canada. Filed July 1, 1919. Serial No. 307,991. 1 Claim. (Cl. 137—104.)

A valve structure for the purpose specified comprising an externally-threaded sleeve extending through the wall of a water closet tank, a valve seat containing sleeve equipped with a flanged end fitting against the end of the first-mentioned sleeve, a water supply pipe equipped with a flanged end fitting against the opposite end of the seat containing sleeve, a coupling member threadedly engaged with the first-mentioned sleeve and adapted to clamp the flanged end of the second-mentioned sleeve thereto, a coupling member threadedly engaged with the opposite end of the second-mentioned sleeve and adapted to clamp the flanged end of the water supply pipe thereto, said coupling members being so arranged that when unthreaded or released, they will permit removal of the seat



container sleeve from between the first-mentioned sleeve and the water supply pipe, a valve engageable with the valve seat, and means for operating the valve supported by the first-mentioned sleeve.

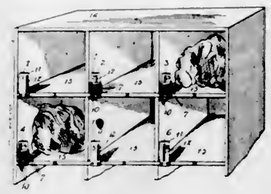
1,343,422. DOLL. ROBERT A. THOMSON, Berkeley, and GORDON ALVIS, Oakland, Calif. Filed Aug. 21, 1919. Serial No. 318,969. 1 Claim. (Cl. 46—40.)



In a doll having eyes mounted for oscillation to and from an open and a closed position, a weighted rod connected with said eyes to close them when the doll is recumbent and to open them when the doll is upright; a joint in said weighted rod adapting it to swing laterally; and a slotted guide in which the weighted rod plays in moving the eyes, said guide having opposing staggered teeth arranged to successively and oppositely engage the rod in its lateral swing due to a lateral rocking of the doll when recumbent, and retard its movement whereby it closes the eyes gradually, and to slip said rod in the reverse direction when the doll is uprighted, whereby its return movement in opening the eyes is free and relatively rapid.

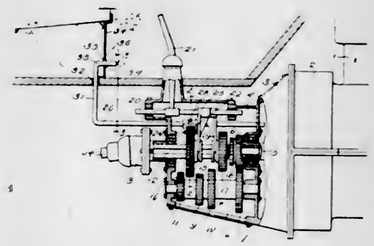
1,343,423. LAUNDRY-CHECKING DEVICE. JOHN H. TODD, Cleveland, Ohio. Filed Apr. 24, 1919. Serial No. 292,326. 3 Claims. (Cl. 40—2.)

1. In a checking device, the combination with a plurality of check members, of a plurality of fixed keys, each having a plurality of longitudinal splines, the splines of each key being positioned to form a different transverse



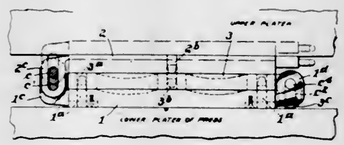
outline, and each check-member being differently apertured and adapted to be fitted to its respective key.

1,343,424. AUTOMOBILE-LOCK. FREDERICK L. WELLS, Rutland, Vt. Filed May 16, 1919. Serial No. 297,613. 4 Claims. (Cl. 70—90.)



1. In an automobile lock, the combination with the transmission casing, the propeller shaft extending from said casing, and the transmission gearing in said casing including a gear rotatable with said propeller shaft; of a dog in said casing for locking said gear, a rock shaft extending into said transmission casing, said rock shaft carrying and forming a pivotal mounting for said dog, and means for operating and locking said rock shaft.

1,343,425. MOLD. CHAUNCY PURLEE WHISLER, Akron, Ohio, assignor to Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 24, 1919. Serial No. 284,712. 5 Claims. (Cl. 18—42.)

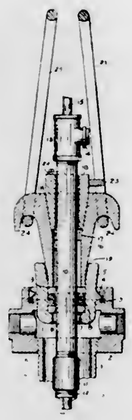


1. A mold having a plurality of parts hinged together, one of said parts having dowel pins perpendicular to the face of the mold part and the other corresponding openings to receive said dowel pins, said hinge having a lost motion connection permitting a rectilinear movement of the parts relative to each other and perpendicular to the plane of the mold in the opening and closing of the mold.

1,343,426. CASING-HEAD TOP. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 342,890. 9 Claims. (Cl. 166—14.)

1. The combination of a casing-head, upper and lower tubing-rings adapted to surround a string of tubing and each having the upper end of its opening correspondingly

tapered downwardly, slips adapted to be seated in the tapered portion of either opening and grip a section of



said string and suspend the string on the corresponding tubing-ring and means on the upper ring for attaching a hoisting device.

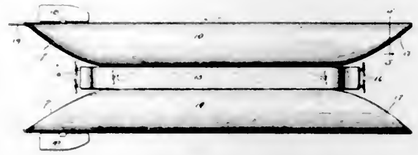
1,343,427. COUNTERBALANCED PUMP. CHARLES E. ANDERSON, Sacramento, Calif, assignor of one-half to Frank Thunberg, Sacramento, Calif. Filed Nov. 4, 1919. Serial No. 335,691. 7 Claims. (Cl. 103—82.)



1. A counterbalanced pump comprising a shaft, a pair of opposed cranks thereon, a pump unit suspended from each crank, and means in each unit actuated from the corresponding crank with a reciprocatory movement of the shaft for raising water from each unit alternately.

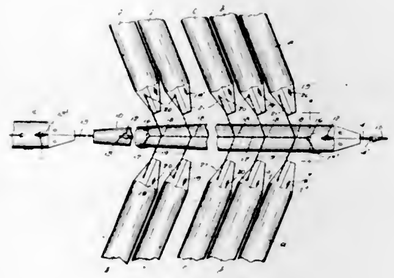
1,343,428. AIRSHIP. CLARENCE C. BERRY, Valley Park, Mo. Filed June 6, 1919. Serial No. 302,241. 10 Claims. (Cl. 244—6.)

1. In an airship of the class described, a pair of connected elongated cylindrical bodies arranged substantially parallel with each other, the forward ends of which bodies are provided with vertically disposed longitudinally curved



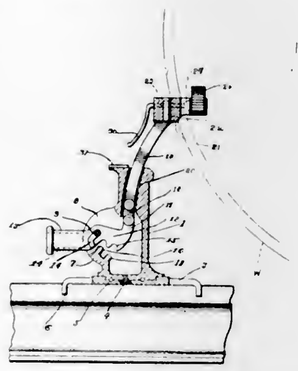
faces which extend from the inner sides of the bodies forwardly to the outer sides of said bodies.

1,343,429. LOG-RAFTING APPARATUS. FRED BLEWER, Port Blakely, Wash. Filed Mar. 29, 1920. Serial No. 369,717. 3 Claims. (Cl. 9—16.)



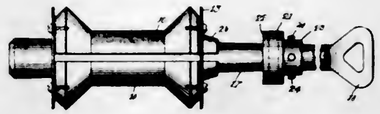
1. In log-rafting apparatus, the combination of a main chain, a log serving as a support therefor and to which the ends of the chain are secured, a plurality of chains extending through the links of said main chain and affording leaders at opposite sides of the latter.

1,343,430. CAR-MOVER. GUY L. BONHAM, West Hartford, Conn. Filed Oct. 20, 1919. Serial No. 331,836. 5 Claims. (Cl. 254—114.)



1. In a car mover the combination with a pedestal, of a wheel gripping head, a curved stem depending therefrom, and means for actuating the stem along a curved line to move the head upwardly and forwardly with that portion of a wheel gripped by the head.

1,343,431. FLUE-EXTRACTOR. PATRICK MACK CANTY, Altoona, Pa. Filed Sept. 23, 1919. Serial No. 325,794. 17 Claims. (Cl. 29—88.2.)



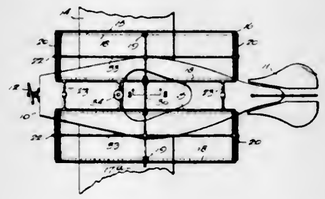
1. A flue extractor, comprising gripping means consisting of a plurality of sections each section including a hub portion and gripping jaws formed on each end of said hub portion, guide pins secured to each of said gripping jaws, annular guide plates arranged adjacent said gripping jaws and provided with radial slots adapted to receive said guide pins to constrain said gripping jaws to radial movement, a tapered shaft for expanding said gripping jaws into engagement with the walls of the flue, frusto-conical sections formed on each of said gripping jaws adapted when said gripping jaws are contracted to contact with each other to form a frusto-conical boss, and a release collar having a frusto-conical cavity, the inclined walls of which are adapted to bear against the inclined walls of said conical sections to move same into contact with each other to contract said jaws, said release collar having a reduced extension and radial set screws therein, adapted to set said release collar in the desired position on said shaft.

1,343,432. MASSAGE DEVICE. WILLIAM MARTILLO CHADWICK, Oklahoma, Okla. Filed Oct. 12, 1917. Serial No. 196,106. 2 Claims. (Cl. 128—57.)



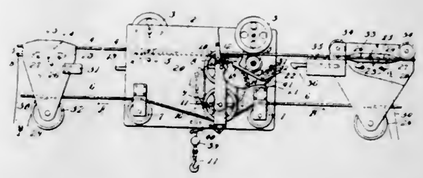
2. A foot massaging device comprising a free and independent substantially cylindrical body adapted to roll on a flat surface and provided with a circumferential groove extending around its middle portion to receive the foot, the base of the groove being inclined to provide a frusto-conical surface for the support of the foot and the side of the groove at the lower end of the inclined base thereof being at a sharp angle to the axis of the body.

1,343,433. AEROPLANE. LUIGI COLETTA, Columbus, Ohio, assignor of thirty-five one-hundredths to Frank Allcandro, Columbus, Ohio. Filed Apr. 16, 1920. Serial No. 374,431. 5 Claims. (Cl. 244—12.)



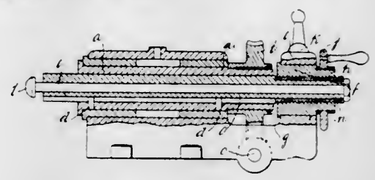
4. The combination with the fuselage of an aeroplane, of laterally spaced frames disposed horizontally thereabove and rigidly connected thereto, a rotatable winding shaft extending through both frames and having spring actuating means between the frames, and means to place said actuating means under tension, cover members normally rolled at the outer portions of the frames and having flexible connection with said winding shaft, means for normally holding the shaft against rotation, and manually controlled means for releasing the said holding means.

1,343,434. WIRE-ROPE CARRIAGE. DAVID COOK, Lynn Valley, British Columbia, Canada. Filed Oct. 17, 1919. Serial No. 331,318. 4 Claims. (Cl. 212—77.)



1. A carriage for an overhead track, comprising the combination with a suitable frame having sheaves adapted to run on an overhead track, a drum rotatably mounted in the frame to which drum one end of a load sustaining line is connected, means for rotating the drum by the hauling rope from the donkey engine, said means comprising a driving sheave around which the hauling rope is passed, a pinion secured to rotate with the driving sheave, the teeth of which pinion mesh with those of a gear wheel secured to rotate with the drum, means for normally holding the load sustaining drum against rotation in either direction whereby the carriage may be drawn in either direction along the track by the hauling rope, means for holding the carriage against endwise movement on the track at the limit of its desired outward movement, means coöperative with attainment of the carriage to its limit of outward movement for releasing the drum holding means whereby movement of the hauling rope may rotate the drum to lower or raise the load, means coöperative with elevation of the load toward the carriage for releasing the carriage from the stop whereby the carriage is free to be drawn along the track by the hauling rope and the drum is again locked.

1,343,435. WORK-HOLDING ATTACHMENT FOR MILLING THREADS. LEONARD COURT, Birmingham, England. Filed May 28, 1918. Serial No. 237,072. 3 Claims. (Cl. 10—107.)

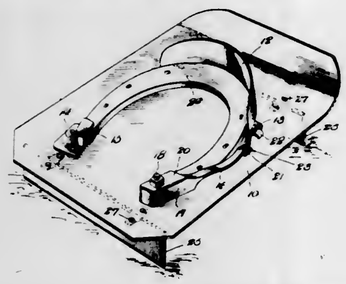


1. A screwing attachment for milling machines comprising in combination a housing, a hollow work spindle, and means for rotating said spindle, a mandrel for supporting the work, said mandrel being disposed within said spindle and arranged so as to rotate therewith but to be slidable with respect thereto, means for rotating said work spindle and means for causing said mandrel to advance when said spindle is rotated, said means comprising a copy screw mounted on an extension of said mandrel which passes through a correspondingly screw-threaded nut, a bearing in which said nut is mounted and means to clamp said nut stationary in said bearing so that said mandrel with the copy screw is advanced; means for releasing said nut and means for rotating it, to cause a return of said mandrel without rotating it and thus without rotating the spindle.

1,343,436. MUCK-SHOE. WILLIAM J. CURRY, Nettleton, Miss. Filed Sept. 5, 1919. Serial No. 321,844. 8 Claims. (Cl. 168—3.)

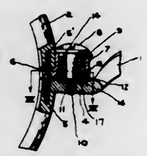
2. A device of the character described including a shoe body, a toe plate upstanding therefrom to coact with the

toe of a horse-shoe, a heel plate carried by the shoe body to coact with one heel portion of a horse-shoe, a lever carried by the shoe body to coact with the other heel portion of a horseshoe for connecting the shoe body thereto, and means for locking the lever in active position.



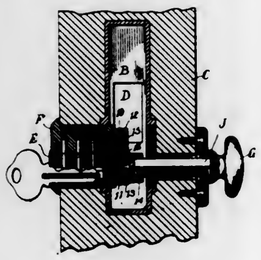
8. A device of the character described including a shoe body, means for detachably connecting the shoe body with a shoe of a horse, and removable elongated and transversely extending calks at the toe and heel-portions of the shoe body, each of said calks being formed from a piece of material having its marginal portions bent into overlapping relation and provided with flanges secured to the shoe body for connecting the calk thereto.

1,343,437. OPHTHALMIC MOUNTING. GEORGE H. DAY, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 26, 1917. Serial No. 208,939. 10 Claims. (Cl. 88—50.)



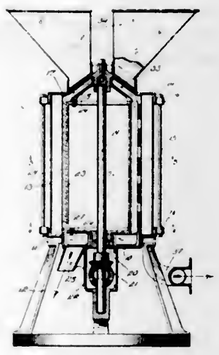
9. A device of the class described including a split ring, a support on one end of the ring, a housing on the opposite end of the ring, a spring actuated guard lever carried by the housing, and means for securing the ring in closed position.

1,343,438. CYLINDER-LOCK. WILLIAM E. DEIBERT, Reading, Pa. Filed Nov. 17, 1919. Serial No. 338,741. 5 Claims. (Cl. 70—46.)



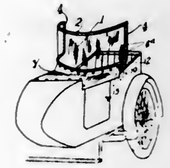
1. In a cylinder lock, a key barrel, an axially recessed bolt-throwing arm independently rotative upon the barrel axis, and an axially alined independently operative spindle arranged to enter and rotatively engage said recessed arm.

1,343,439. FRUIT AND VEGETABLE PULPING MACHINE. JOHN R. DOSTAL, Milwaukee, Wis., assignor to Henry Scarborough, Milwaukee, Wis. Filed Dec. 5, 1918. Serial No. 265,369. 9 Claims. (Cl. 146—9.)



1. A machine of the class described including a separating member, a conical crushing member, means for rotating the crushing member, and means extending from and rotatable with the crushing member to move material in juxtaposition to the separating member.

1,343,440. WIND-SCREEN FOR MOTORCYCLE SIDE CARS. CHARLES ARTHUR EASTING, Birmingham, England. Filed Oct. 15, 1917. Serial No. 196,700. 8 Claims. (Cl. 296—84.)



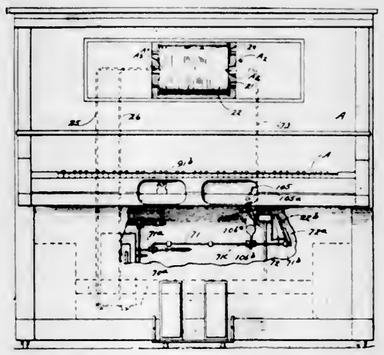
6. A transparent wind screen for motor cycle side cars comprising in combination a sheet of transparent flexible material; a strip of resilient metal along its upper edge; a strip of resilient metal along its lower edge of greater strength than the upper strip; brackets for mounting said screen on the side car body; means connecting said screen and brackets whereby the screen may be tilted over the passenger's head to form a rain hood; means for locking the screen in various angularly adjusted positions; means for adjusting the position of the screen vertically; and means for securing the normally vertical frame members to the side car body; for the purpose specified.

1,343,441. PROCESS OF PRODUCING TITANIUM COMPOUNDS. PEDER FARUP, Christiania, Norway, assignor to Titan Co. A/S. of Norway, Christiania, Norway. Filed Feb. 27, 1918. Serial No. 219,407. Renewed Apr. 4, 1919. Serial No. 287,631. 14 Claims. (Cl. 134—58.)

8. The process of preparing titanium compounds from titaniferous materials containing iron, which comprises heating a titaniferous material containing iron together with carbon in an atmosphere of nitrogen until a titanium nitrogen compound is formed and the iron present is reduced to the metallic state, dissolving said metallic iron in acid and separating the solution from the residue containing the titanium nitrogen compound, heating said residue together with sulfuric acid to form titanium sulfate and ammonium sulfate, dissolving said sulfates in water, heating the solution thus formed until a titanium hydrate

containing a small amount of SO_4 radical is precipitated, separating the precipitate from the solution, washing the precipitate and treating it with a barium compound to form barium sulfate with the SO_4 radical present and calcining the resulting product to form TiO_2 and barium sulfate.

1,343,442. CONTROLLING MECHANISM FOR PLAYER-PIANOS AND THE LIKE. CHARLES FREBORG, Kankakee, Ill., assignor to Price & Teeple Piano Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 15, 1916. Serial No. 78,394. 25 Claims. (Cl. 84—168.)

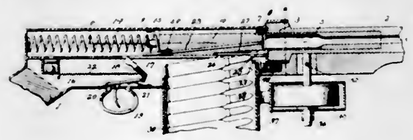


1. In a device of the class described, a suction member, a duct to convey air thereto, an expression controlling bellows, a slide valve operatively attached thereto and coacting with said duct to regulate the flow of air therethrough to said suction member, means to normally resist movement of said bellows and valve, and additional resisting means operable upon passage of one or more apertures in a row in a sheet of music over a tracker board to further resist movement of said bellows and valve to closing position.

1,343,443. REMOVAL OF SODIUM SULFATE FROM SOLUTION. FRANCIS ARTHUR FREETH, Sandiway, and HERBERT EDWIN COCKSEDGE, London, England. Filed Oct. 30, 1918. Serial No. 260,350. 3 Claims. (Cl. 23—22.)

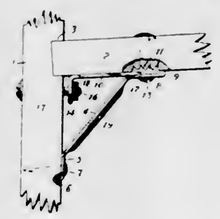
1. The process for the extraction of sodium sulfate from a saturated or practically saturated solution of sodium sulfate at any given temperature containing other salts or substances, consisting in digesting such solution at or slightly above such temperature with a quantity of hydrated or anhydrous calcium sulfate to form the double salt $CaSO_4Na_2SO_4$, and removing such precipitate by any well known means.

1,343,444. FIREARM. GEORGE M. FORMBY, Jacksonville, Fla. Filed Mar. 23, 1917. Serial No. 156,985. Renewed Nov. 1, 1919. Serial No. 335,104. 7 Claims. (Cl. 42—3.)



1. An automatic gun of the class described including in combination a breech mechanism consisting of a permanent breech-chamber and a movable breech-block, a firing chamber movable in said permanent breech-chamber, means for locking the movable breech-block to the firing chamber for moving the latter from the permanent breech-chamber when the cartridge is exploded, releasing means for said firing chamber, means for returning the firing chamber from its moved position, retaining means for holding the movable breech block in its recoil position, means for releasing the movable breech-block and a cartridge feeding device for positioning the loaded cartridge in the firing chamber.

1,343,445. BRACE OR KNEE. HERMAN B. GAFFERS, Watervliet, N. Y. Filed May 23, 1919. Serial No. 299,096. 8 Claims. (Cl. 228—58.)



1. The combination with a side rail and a step of a ladder, of a knee therefor having a diagonal brace portion secured to the ladder rail and a part extending rearwardly from its point of connection with the diagonal brace portion fastened to the step and having a downturned flange normally spaced from the side rail, and adjustable means connected with the side rail and the downturned flange for drawing the same toward the rail.

1,343,446. PIGMENT AND METHOD OF ITS MANUFACTURE. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignor to Titan Co. A/S., Christiania, Norway. Filed Sept. 27, 1918. Serial No. 255,961. 14 Claims. (Cl. 134—58.)

1. The process of producing pigments, comprising the step of treating titanium compounds with liquids containing a foreign coloring substance in a dissolved or suspended condition.

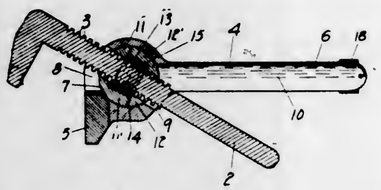
1,343,447. PIGMENT CONTAINING TITANIUM-OXYGEN COMPOUND. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignor to Titan Co. A/S., Christiania, Norway. Filed May 10, 1917. Serial No. 167,837. Renewed Oct. 25, 1919. Serial No. 333,429. 8 Claims. (Cl. 134—58.)

5. The process of producing pigments, which comprises the evaporation of a solution containing titanium compounds and amorphous silica to dryness and heating the residuum to expel water and sulfuric acid, the said heating being continued so far and at so high temperatures that titanium dioxid is converted into crystalline form.

1,343,448. QUICK-ADJUSTABLE SCREW-WRENCH. JULIUS MAX GRENZFELDER, St. Louis, Mo. Filed Feb. 14, 1919. Serial No. 277,030. 3 Claims. (Cl. 81—79.)

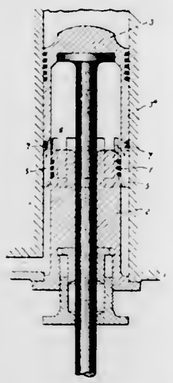
1. A quick adjustable screw wrench, comprising a rearwardly disposed handle having a longitudinal recess along its under side; a rear jaw rigidly mounted at the forward end of said handle; a circular recess chambered out at the juncture of the said rear jaw with said handle; longitudinal slots extending forwardly and backwardly from said circular recess; two complementary, segmental chucks, having overlapping, concaved lips adapted to hold a cylindrical nut rotatably mounted between them and

being slotted longitudinally in alinement with the slots extending from said circular recess; a cylindrical nut, threaded interiorly to mesh with the screw on the shank described; a forwardly disposed, rearwardly extending



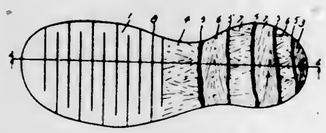
shank, provided with a screw to engage the nut aforesaid, mounted through said slots and said nut, and adapted to swing up into and out from the longitudinal recess in the handle aforesaid.

1,343,449. STEAM-EXPANSION ENGINE. VERNON BALFOUR HARLEY-MASON, Cheam, England. Filed Feb. 21, 1920. Serial No. 360,462. 3 Claims. (Cl. 60—14.)



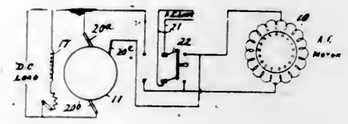
1. In a steam expansion engine, a cylinder, a hollow piston therein and having a skirt provided with exhaust ports, an inwardly projecting cylinder cover conforming to the internal shape of the piston, an exhaust pipe communicating with the annular space formed between the cylinder and the inwardly projecting portion of the cover, and a piston rod connected to the crown of the piston and sliding through said cover, the said exhaust ports of the piston skirt being uncovered when the piston approaches the end of its expansion stroke and permitting steam to pass through said annular space and to said exhaust pipe.

1,343,450. BOOT OR SHOE SOLE. HENRY L. HASKELL, Ludington, Mich., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed Oct. 13, 1917. Serial No. 196,419. 4 Claims. (Cl. 36—30.)



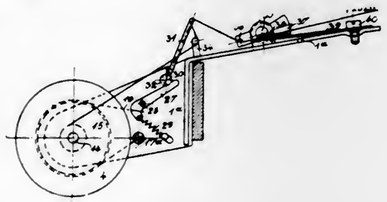
3. A boot or shoe sole comprising inner and outer members each formed of multiple ply wood veneer, the plies of the outer member being thicker than the plies of the inner member, the plies of the members being arranged with their grain in a crossed relation, the said members and the several plies thereof being secured together throughout by a waterproof glue, the outer member having transverse kerfs therein.

1,343,451. METHOD AND APPARATUS FOR STARTING MOTORS. JOHN H. HERTNER, Cleveland, Ohio., assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 24, 1915. Serial No. 68,508. 6 Claims. (Cl. 171—123.)



3. The method of starting an alternating current motor connected to a direct current generator which comprises passing alternating current in series through the armature winding of the generator and through the primary or inducing winding of the motor so that a flux is produced in the armature of the generator dissymmetrical with respect to the poles of the generator causing the generator to run as an alternating current motor, and disconnecting the generator from the alternating current circuit when the motor acquires torque and substantially reaches running speed.

1,343,452. APPARATUS FOR HOLDING THE THREAD TENSE IN CIRCULAR-BRAIDING MACHINES. GUIDO HORN, Weissensee, near Berlin, Germany. Filed Dec. 29, 1916. Serial No. 139,669. 3 Claims. (Cl. 28—24.)

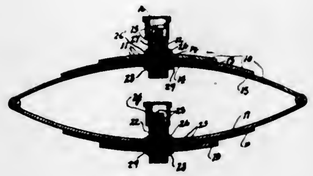


2. In a thread tensioning device of the character described for braiding machines, in combination with the spool of the machine and its carrier, a shaft between spool and carrier having an eccentric groove, a hoop member on said shaft, a lever fulcrumed below said shaft and adapted to be engaged by said groove, a band guided over said spool and secured to said member, a detector operated by centrifugal action for automatically stopping the machine upon stoppage in the thread supply, and an auxiliary clamping device for clamping the loose thread ends and preventing them to be drawn into the braid.

1,343,453. SELF-OILING VEHICLE-SPRING. EDWARD J. JACKSON, Willcox, Ariz. Filed Mar. 11, 1918. Serial No. 221,789. Renewed Dec. 9, 1919. Serial No. 343,642. 3 Claims. (Cl. 267—50.)

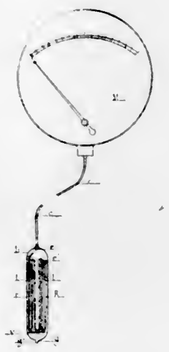
1. A vehicle spring including a plurality of superimposed leaves, said leaves being formed with interfitting beveled marginal portions, said leaves except the uppermost one being formed with longitudinal central grooves which are wide at their central portions and taper toward

both ends, all of the leaves being formed with central vertically alining openings, a longitudinally grooved bolt disposed through the openings, and an oil cup on the



upper end of the bolt, the grooves of the bolt being arranged in position to deliver oil to the grooves of the leaves.

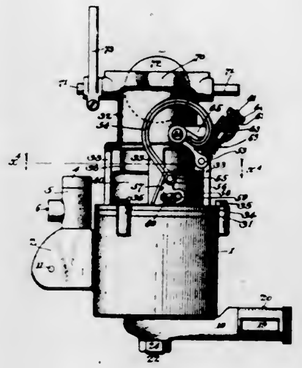
1,343,454. THERMOMETER OPERATED BY THE PRESSURE OF SATURATED VAPOR. LAZARE PIERRE XAVIER JEANNET, Paris, France. Filed Apr. 18, 1918. Serial No. 229,353. 3 Claims. (Cl. 73—52.)



1. A thermometer operated by the pressure of a saturated vapor, comprising a reservoir containing a volatile liquid, a pressure gage and a pipe which are filled with transmitting liquid, and a capillary tube closely fitting the contour of the reservoir, connecting said reservoir to said pipe and opening into said reservoir, said capillary tube having such a capacity and being filled to such an extent that the free level of the transmitting liquid will always be situated between its two ends irrespectively of the variations of volume of the parts of the pipe containing the transmitting liquid, and the transmitting liquid itself.

1,343,455. CARBURETER. RASMUS JENSEN, Los Angeles, Calif.; Agnes M. Jensen administratrix of said Rasmus Jensen, deceased. Filed June 20, 1916. Serial No. 104,676. Renewed Sept. 13, 1919. Serial No. 323,648. 5 Claims. (Cl. 261—39.)

1. In combination, a carbureter having air and fuel valves, a track adapted to be connected to the air valve of the carbureter, a rotatively mounted shaft, a finger on the shaft adapted to govern the amount of opening of the fuel valve of the carbureter, and thermostatic leaves to turn the shaft provided with a roller to engage the track,



said track and leaves being so disposed that movement of the track will cause the leaves to turn the shaft.

1,343,456. RIFLE. HARRY H. JONES, Portland, Oreg. Filed July 29, 1918. Serial No. 247,216. 6 Claims. (Cl. 89—7.)



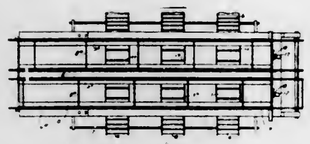
1. A gun comprising a barrel having at its breech a combustion chamber, a bullet magazine, a bullet lifter for feeding bullets from said magazine into said breech, a slide for operating said bullet lifter, a fuel reservoir, a pump for compressing air into said reservoir, a combined air and fuel outlet and mixer for said reservoir, a tube leading from said outlet and mixer to said combustion chamber and having a valve, and means actuated by said slide for controlling said valve.

1,343,457. FURNACE. THOMAS BINKS KITSON, Leeds, England. Filed Dec. 5, 1918. Serial No. 265,352. 6 Claims. (Cl. 263—46.)



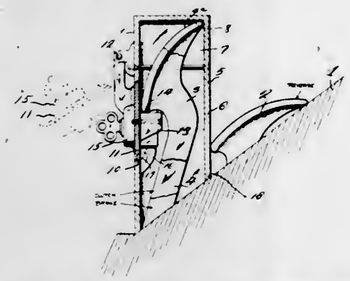
1. In a furnace, the combination of parallel longitudinal passages superposed one on the other above the furnace roof, means for admitting waste gases from the outlet end of the furnace to the adjacent end of the upper passage, means for admitting air to the corresponding end of the lower passage, and means for admitting heated air and gas to the opposite end of the furnace, substantially as described.

1,343,458. CAN SELECTING AND WEIGHING APPARATUS. GEORGE J. KOEHL, San Diego, Calif., assignor to Neptune Sea Food Company, a Corporation of California. Filed Dec. 11, 1918. Serial No. 266,354. 9 Claims. (Cl. 83—92.)



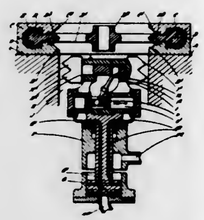
1. In an apparatus of the class described, the combination of a plurality of balancing devices arranged in a row, a conveyer positioned and arranged to operate over said row of balancing devices, means for intermittently operating said conveyer and other means in connection with said conveyer for positively stopping said conveyer at a certain position relatively to said balancing devices.

1,343,459. AUTOMOBILE-PEDAL LOCK. CHARLES EARL LACY, Richmond, Va. Filed Sept. 25, 1919. Serial No. 326,182. 3 Claims. (Cl. 70—126.)



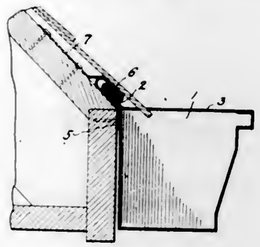
1. A pedal lock for motor driven vehicles comprising a housing, said housing being adapted to receive the clutch and brake pedals of a motor driven vehicle, said housing when in position over said clutch and brake pedals engaging the upper ends of said pedals, the lower end of said housing engaging the flooring of the body of the vehicle, one wall of said housing being adapted to engage and hold in forward position a reverse pedal, and means for engaging the clutch and brake pedals for securely holding said pedals within the housing.

1,343,460. MANUFACTURE OF TIRES. COLIN MACBETH, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, Westminster, England. Filed July 1, 1919. Serial No. 307,917. 19 Claims. (Cl. 18—2.)



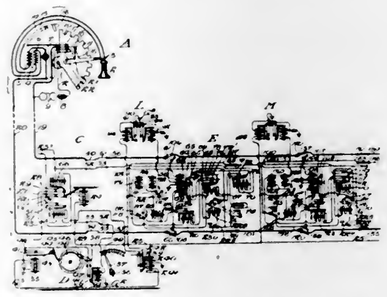
1. Apparatus for opening tire and similar molds comprising means adapted to positively effect separation of the mold shells from the core and support the latter and the tire out of contact with said shells independent of any movement of the core.

1,343,461. ROOF-GUTTER OR EAVES-TROUGH. CARL G. MARBERG, Chicago, Ill. Filed Dec. 4, 1919. Serial No. 342,310. 1 Claim. (Cl. 108—28.)



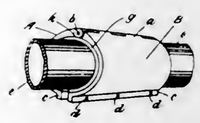
In a roof gutter structure, an elongated sheet of metal secured to the roof sheathing and having a depending bottom flange secured to the fascia of the building, said sheet being doubled and formed into a continuous hook extending longitudinally of the roof and located above the roof sheathing, and a gutter having a hook at the top of its rear wall engaging the first-mentioned hook and longitudinally movable therein.

1,343,462. TELEPHONE-EXCHANGE AUTOMATIC SWITCHING SYSTEM. EDWARD A. MELLINGER, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 4, 1908, Serial No. 451,674. Renewed Aug. 16, 1919. Serial No. 318,040. 109 Claims. (Cl. 179—18.)



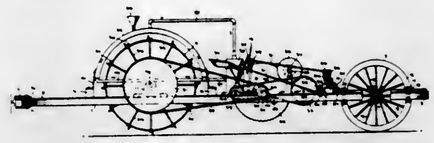
1. In a telephone system, a line, a plurality of trunks, a plunger for traversing the trunks and connecting the line with an idle one thereof, a magnet for drawing the plunger into position to close the connection, a line relay bridged on the line and controlling said magnet, a bridge-cut-off relay, and a circuit for energizing said magnet and cut-off relay in series.

1,343,463. CLIP FOR STOPPING LEAKAGE IN DAMAGED PIPES. THOMAS DAVIES MEREDITH, London, England. Filed Apr. 2, 1919. Serial No. 287,068. 2 Claims. (Cl. 285—194.)



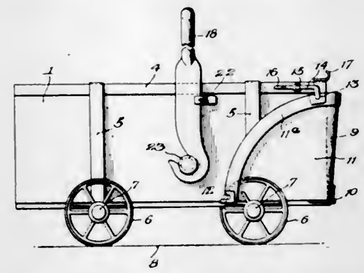
1. A device of the character described comprising a pair of hingedly connected sections, a one piece lining connected to one of said sections and loose with respect to the other section and adapted to be embraced by both sections, and means for fastening the free ends of said hinged sections together.

1,343,464. FARM-TRACTOR. JOHN EDWARD MEYER, Shepherd, Mich. Filed Jan. 22, 1918, Serial No. 213,175. Renewed Oct. 27, 1919. Serial No. 333,689. 4 Claims. (Cl. 180—54.)



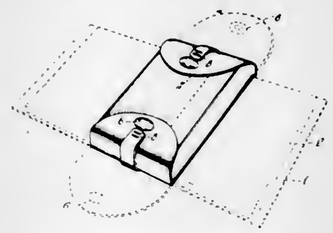
1. A tractor having a traction wheel, an engine, and a radiator for cooling the engine mounted adjacent to said wheel, said wheel being provided with means for fanning air against said radiator to cool same.

1,343,465. FURNACE-CHARGING DEVICE. WILLIAM E. MOORE, Pittsburgh, Pa. Filed Sept. 13, 1918. Serial No. 253,912. 10 Claims. (Cl. 214—18.)



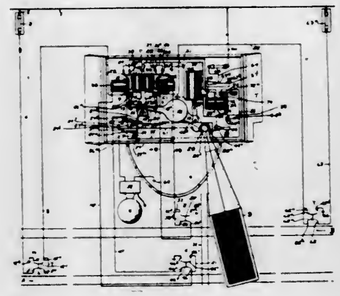
1. In a furnace charging device, a box having a body portion and being provided with wheels, the bottom of said box being curved and an end portion hinged to the bottom and being bowed outwardly to conform with the curvature of the bottom, said end portion being arranged to swing downwardly into alinement with the bottom to form a continuation thereof and means for holding said hinged end portion in its open and closed position.

1,343,466. SHOE-POLISHER. JACK MORK, Chicago, Ill. Filed Feb. 20, 1920. Serial No. 360,262. 2 Claims. (Cl. 15—16.)



1. A shoe polisher comprising a flexible back having a polishing element secured to the inner face thereof, a pair of outwardly extending flaps located on respectively opposite sides of said back, a transversely disposed handle strap secured to the outer face of said back the ends of said strap being secured to the respective flaps whereby said flaps are held in rearwardly inclined positions out of the plane of said polishing element when a hand is inserted under said strap, said back being foldable transversely and inwardly upon itself, said flaps being foldable inwardly upon said back, and fastening means on said flaps and back adapted to coact for securing said polisher in its folded position.

1,343,467. ELECTRICAL SIGNALING SYSTEM. HUGH D. MURPHY, Fort Wayne, Ind. Filed Feb. 27, 1919. Serial No. 279,556. 8 Claims. (Cl. 246—126.)



1. In an electric signaling system, means to hold the signal in non-operated position, an electro-magnet to control the said means and being in a normally closed circuit, a switch to control the electro-magnet, a shunt circuit for the electro-magnet controlled by said switch, the de-energizing of the electro-magnet releasing the holding means to permit the signal to automatically move to operated position, an electro-magnet adapted to reset the holding means and being in a normally shunted circuit, and a switch to control the latter electro-magnet and said shunt circuit.

1,343,468. PROCESS OF PRODUCING PIGMENTS. REIDAR NIELSEN and VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignors to Titan Co. A/S., Christiania, Norway. Filed May 16, 1917. Serial No. 169,108. 14 Claims. (Cl. 134—58.)

6. The process of producing a material suitable for use as or in the manufacture of a pigment and comprising iron oxid and smaller amounts of titanium oxid, calcium sulfate, calcium titanate and calcium ferrites, which comprises evaporating to dryness a solution containing iron and titanium sulfates from which titanium hydrates have been precipitated, heating the residue to drive off SO_3, adding to the decomposition mass calcium carbonate and heating the resultant mixture whereby the SO_4 radical present is combined to form calcium sulfate and whereby calcium titanate and calcium ferrites are formed.

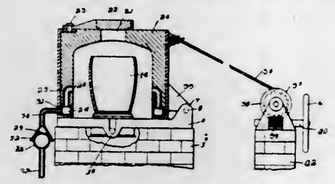
1,343,469. TITANIUM PRODUCTS AND THE PROCESS OF PRODUCING SAME FROM PRECIPITATED TITANIUM HYDRATES. REIDAR NIELSEN and VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignors, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Filed Oct. 12, 1917. Serial No. 196,315. 8 Claims. (Cl. 134—58.)

1. The process of treating titanium hydrates containing an undesired acid substance whereby the said undesired acid substance is eliminated, which comprises treating the titanium hydrates with a compound of a metal which on reacting with the said acid substance forms a plurality of compounds, one being a neutral and relatively insoluble salt and another a gas.

1,343,470. FURNACE. ALEXANDER C. OSBORN, Jr., Clarksburg, W. Va. Filed Jan. 26, 1920. Serial No. 353,961. 4 Claims. (Cl. 263—11.)

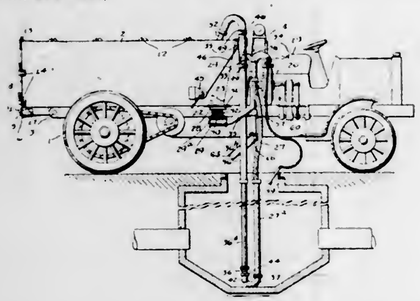
1. In a crucible furnace, a lower section, an upper section hingedly connected to the lower section, a removable crucible supporting member carried by the lower section, gas jets forming a part of the upper section, a supply pipe having communication with the gas jets, and a main sup-

ply pipe, means for automatically providing an air-tight connection between the supply pipe and main supply pipe,



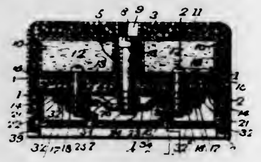
when the upper section is moved to its operative position, and means for moving the upper section with relation to the lower section.

1,343,471. TRAVELING APPARATUS FOR CLEANING SEWER-BASINS. GEORGE W. OTTERSON, Seattle, Wash. Filed June 17, 1918. Serial No. 240,441. 14 Claims. (Cl. 214—65.)



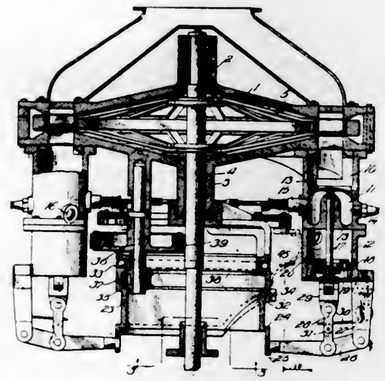
1. In an apparatus of the character described, the combination with a vehicle carrying a settling-bed body and a force pump, the inlet of which latter has communication with the relatively clear water space of the settling-bed, of an arm movable outboard from the side of the vehicle, and a hydraulic ejector elevator comprising pressure and discharge lines with an ejector at their lower ends, said pressure line having connection with the outlet of the pump and the discharge line comprising telescopic piping connected with said movable arm and terminating in a spout capable of discharging into the tank in the various positions of the arm.

1,343,472. COMPRESSIBLE RHEOSTAT. ANTONIO PATINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 23, 1920. Serial No. 368,020. 8 Claims. (Cl. 219—30.)



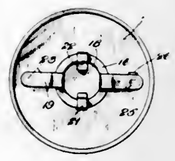
1. In a double cell rheostat, a porcelain body, having a plurality of piston chambers therein, a contact plate for the top of each of said piston chambers, a contact plate for each of said pistons and insulated therefrom, compressible resistance material between said plates, a compressing plate common to said pistons, an adjusting screw intermediate of said cylinders, and in engagement with said plate and a spring intermediate of said plate and the portion of said body in which said screw is mounted.

1,343,473. ENGINE. JULIUS R. PFLAUME, Chicago, Ill., assignor to Meteor Motor Company, a Corporation of Illinois. Filed Mar. 17, 1919. Serial No. 283,250. 7 Claims. (Cl. 60—41.)



1. An engine of the class described, wherein a rotor is driven by the products of combustion from a series of annularly arranged combustion chambers, a corresponding number of pumping cylinders arranged in axial alinement with the respective combustion chambers, valves operable by explosions in said combustion chambers and adapted to control the discharge of the products of combustion to said rotor, pistons in said pumping cylinders directly connected to the respective valves so as to be operated by the movement of said valves, conduits connecting the pumping cylinders which are alined with each combustion chamber, with another combustion chamber, and means for holding the respective piston valves closed during the ignition of a charge in the combustion chamber.

1,343,474. CLOSURE FOR CONTAINERS. IRVING A. PRYDE, Richmond, Va. Filed Sept. 20, 1919. Serial No. 325,047. 5 Claims. (Cl. 220—33.)

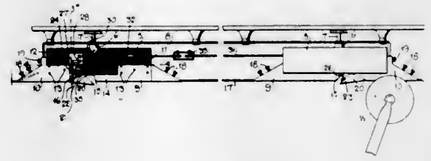


1. A device of the class described including a body having inlet and outlet openings, a closure rotatably carried by the body and provided with a pair of diametrically opposed arms adapted for closing said openings, and a pair of lugs overhanging said closure for securing the same in position.

1,343,475. CUT-OUT SWITCH FOR MINE-TROLLEYS. JOHN RACOSKY, Jerome, Pa. Filed Apr. 28, 1917, Serial No. 165,169. Renewed Mar. 13, 1920. Serial No. 365,626. 5 Claims. (Cl. 191—14.)

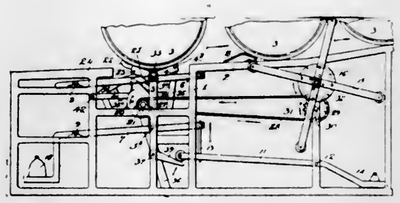
1. An automatic cut-out switch for trolleys including spaced units each consisting of spaced contact members insulated from each other, a trolley wire section connecting the adjacent contact members of the switch units, a current conducter connected to the other contact members of the switch units, a movable circuit closing element normally engaged with the latter contact member of each unit, and operating connections between said elements

whereby when one of the elements is engaged and moved by the trolley wheel into circuit closing relation with the first named contact of the switch unit, the circuit closing element of the other switch unit is moved to a like position and the circuit closed through the trolley wire section.



5. An automatic cut-out switch for trolleys including spaced units each consisting of spaced contact members insulated from each other, a trolley wire section connecting the adjacent contact members of the switch units, a current conductor connected to the other contact members of the switch units, a movable circuit closing element normally engaged with the latter contact member of each unit, a bell crank lever for each switch element, means operatively connecting the circuit closing element to one arm of the bell crank lever, means connecting the other arms of the bell crank levers to each other whereby, when one of the circuit closing elements is engaged by the trolley wheel and moved into circuit closing relation to the first named contact of one switch unit, the circuit closing element of the other switch unit is moved to a like position, and latch means for engagement with the connections between said elements and the bell crank levers to hold the circuit closing elements in either position against casual movement.

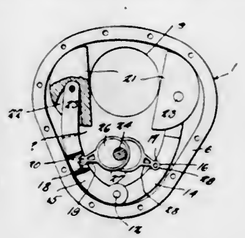
1,343,476. WEIGHING-MACHINE. JAMES H. REISHARDT, East Orange, N. J., assignor of one-half to Federal Sugar Refining Company, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1916. Serial No. 88,469. 15 Claims. (Cl. 265—9.)



1. A weighing machine comprising weighing mechanism, a plurality of type members, means supporting said type members for movement to printing position, means interposed between said weighing mechanism and the second named means for moving the appropriate type member substantially to printing position, an actuator adapted to operate any of said type members for printing, and means to operate said actuator to cause printing upon the article being weighed.

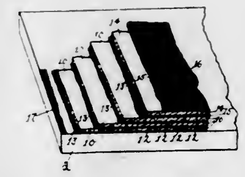
1,343,477. CASING-HEAD. WESLIE MARCH ROADES, Okmulgee, Okla. Filed Sept. 2, 1919. Serial No. 321,034. 2 Claims. (Cl. 251—18.)

1. In a device of the class described, a casing having an opening; gates slidable in the casing and controlling the opening; arms pivoted to the casing and connected with the gates; a shaft journaled in the casing; eccen-



trics on the shaft; and straps operating with the eccentrics, the straps being pivotally connected with the arms.

1,343,478. BUILT-UP ROOFING. HAROLD H. ROBERTSON, Sewickley, Pa., assignor to Aspromet Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1918. Serial No. 264,420. 4 Claims. (Cl. 154—51.)



1. A protective covering for roofs and the like comprising a plurality of superimposed layers of wool felt saturated with asphalt, and a layer of asbestos felt saturated with asphalt and superimposed upon the said wool felt layers, and a layer of gritty material adhesively affixed on said asbestos layer.

1,343,479. ADJUSTABLE GAGE. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Filed Dec. 28, 1917. Serial No. 209,331. 2 Claims. (Cl. 33—143.)

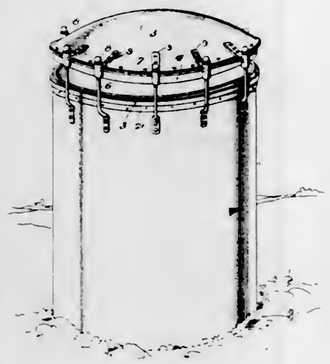


1. A gage comprising in combination a base provided with two parallel holes, two rods screw threaded at one end, adapted to rotate within said holes and having their other end eccentrically disposed with respect to the axis of the corresponding hole, nuts threaded on the screw threaded ends of the said rods, and set screws for fixing the said rods in the base before tightening up the said nuts, substantially as described and for the purpose set forth.

1,343,480. OIL-TANK. THOMAS J. RUTHERFORD, Oklahoma, Okla. Filed Sept. 8, 1919. Serial No. 322,267. 3 Claims. (Cl. 220—24.)

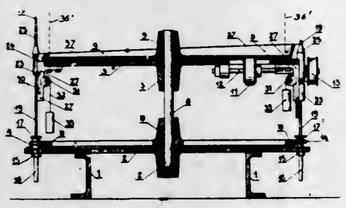
2. The combination of a tank, an annular band secured around the tank at the upper end thereof and having an outwardly offset portion, a cover seating freely on the upper end of the tank and provided with guides at its edge,

a rim secured to and depending from the edge of the cover to engage between the tank and the offset portion of the annular band thereon whereby to seal the joint be-



tween the tank and the cover, and guide rods secured on the tank at the upper end thereof and passing through the guides on the cover.

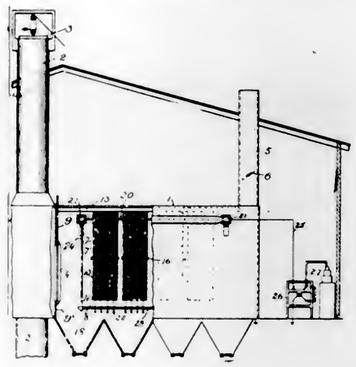
1,343,481. CIRCULAR WEFT-WINDING MACHINE. ALBERT SCHAFFELBERGER, Paris, France. Filed Feb. 6, 1918. Serial No. 215,634. 2 Claims. (Cl. 242—32.)



2. In a weft-winding machine wherein the weft is wound in intersecting spirals, the combination of spindles located along a circumference, a common wheel actuating said spindles, said spindles being movable along their axes and independent of one another; cops having conical bases secured at the upper ends of the spindles; a circular plate having an edge of varying height and having an inclined plane at its outer part serving as a common weft guide and rotating opposite the conical portion of the cops during the winding, cones bearing on the cops, axes for said cones, springs tending to draw said cones downwardly, stop members for said cones, adjusting slides in which the axes of the cones are engaged, a device for stopping said spindles at a desired moment, and a weft stop motion comprising a rocking tappet for operating the means for stopping the machine, operated by the inclined plane on the weft-guide plate.

1,343,482. APPARATUS FOR SEPARATING SUSPENDED PARTICLES FROM GASES. WALTER AUGUST SCHMIDT and GEORGE CLIFFORD ROBERTS, Los Angeles, Calif., assignors to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 23, 1914. Serial No. 826,675. 41 Claims. (Cl. 183—7.)

1. In an apparatus for separating suspended particles from gases, a chamber provided with gas inlet and outlet means, for passing a current of gas through said chamber, a collecting electrode presenting relatively extended surface adapted to minimize discharge and extending in said chamber parallel to the direction of motion of said current of gas, said collecting electrode having perforations distributed throughout its surface, and a discharge electrode in said chamber opposite said collecting electrode and presenting relatively small surface of a form adapted to facilitate discharge.



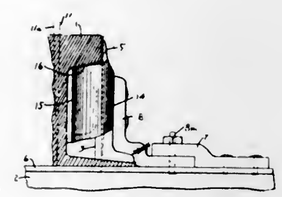
2. In an apparatus for separating suspended particles from gases, a collecting electrode consisting of a perforated screen, a discharge electrode opposite said collecting electrode and formed to facilitate electrical discharge therefrom, and a chamber inclosing said electrodes and provided with means for directing a current of gas between said electrodes in a direction parallel to the surface of the collecting electrode.

3. An apparatus for separating suspended particles from gases, comprising collecting electrodes consisting of screens extending in parallel planes, discharge electrodes interposed between the collecting electrodes and a chamber inclosing said electrodes and provided with means for passing a current of gas between said electrodes, in a direction parallel to the surface of said collecting electrodes.

4. In an apparatus for separation of suspended particles from gases, a collecting electrode extending in a vertical plane and means for passing a current of gas in a horizontal direction, parallel to the plane of said electrode having a substantially plane surface, said collecting electrode being provided with vertical flanges secured thereto acting as baffles.

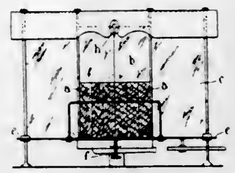
5. An apparatus for separation of suspended particles from gases, comprising a collecting electrode having a substantially plane surface provided with flanges secured thereto and projecting from said substantially plane surface, and means for passing a current of gas parallel to said collecting electrode and transversely to said flanges.

1,343,483. RAILROAD-SWITCH. EDMOND P. SCHOLES, San Jose, Calif., assignor of one-fifth to Abe Golden, one-fifth to Jacob Martin, one-fifth to Charles Leavell, and one-fifth to William H. Johnson, Santa Clara county, Calif. Filed Jan. 5, 1920. Serial No. 349,506. 6 Claims. (Cl. 246—437.)



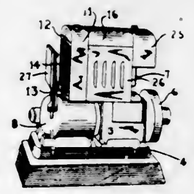
6. A switch rail having its point turned under to engage the under side of the head rail.

1,343,484. GAS-FIRE. CHARLES SCOTT-SNELL, Wimbledon, England, assignor of one-half to David Anderson, Gravesend, Kent, England. Filed Dec. 28, 1916. Serial No. 139,351. 3 Claims. (Cl. 126—86.)



1. A gas fire comprising an open fronted heating element consistsing of a vertically disposed radiant refractory body suitably fixed to a base plate and provided with a series of openings therein for the reception of gas heating burners in combination with rearwardly located metallic reflector plate elements, angularly disposed thereto, whereby the heat rays from the rear face of the radiant are projected firstly on to the faces of fixed angularly arranged mirror elements and secondly to the face of adjustable mirror elements working on a hinge joint and thence in an outward direction coinciding with the heat rays issuing from the open front of the radiant element into an apartment or chamber, substantially as described.

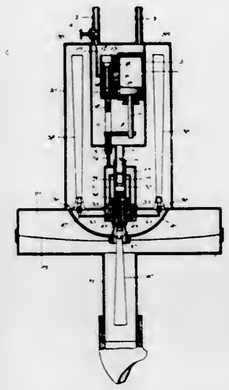
1,343,485. MANUFACTURE OF POWER PLANTS. HERBERT D. SHAMBERG, New York, N. Y. Filed July 9, 1919. Serial No. 309,666. 3 Claims. (Cl. 123—174.)



1. An electrical generating unit comprising an internal combustion engine provided with a water-jacket, an electrical generator direct-connected with the engine, a vertical radiator mounted upon the generator part of the unit and having a cold-water connection with the engine-jacket, and a horizontal supplementary water-tank extending from the top tank of the radiator as a roof over the engine part and having a hot-water connection between its rear portion and the engine-jacket.

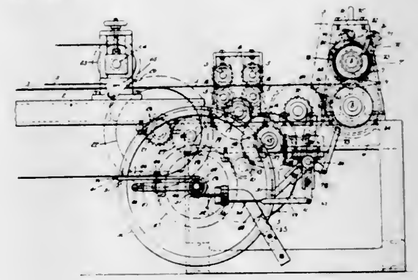
1,343,486. METHOD OF PRODUCING ARTIFICIAL RESPIRATION. GEORG PAUL EUGEN STOLLE, Kiel, Germany. Filed Oct. 21, 1913. Serial No. 796,460. Renewed Nov. 4, 1918. Serial No. 261,159. 1 Claim. (Cl. 128—29.)

A method of producing artificial respiration which comprises causing a flow of respiration gas, utilizing a portion of the respiration gas to effect a periodic reversal of the direction of such flow, independently of lung pressure, and afterward introducing into the lungs of the patient



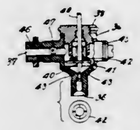
a portion of the respiration gas which has effected the reversal.

1,343,487. VARIABLE AUTOMATIC CONTROL MECHANISM. GEORGE W. SWIFT, Jr., Bordentown, N. J. Filed Dec. 6, 1918. Serial No. 265,652. 16 Claims. (Cl. 164—49.)



1. In a variable automatic control mechanism, a continuously movable actuator, a plurality of actuating elements movable into and out of actuating positions, periodic means for shifting said elements from one position to the other, and means for yieldably holding said elements in their different positions.

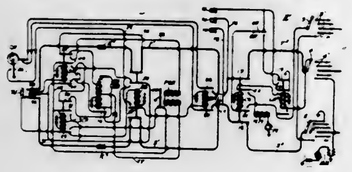
1,343,488. WATER-VALVE FOR CARBURETERS AND VAPORIZERS OF INTERNAL-COMBUSTION ENGINES. JOHN ARTHUR TORRENS, Muckamore, Ireland. Filed Mar. 28, 1918. Serial No. 225,161. 1 Claim. (Cl. 277—7.)



A water valve for carburetters and vaporizers comprising a casing, a water inlet at the bottom of the casing, a needle valve within said casing, a flange on said needle valve, holes in said casing below said flange to admit air to said casing and allow surplus water to escape

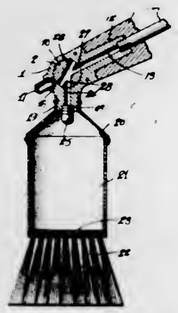
from the casing, an air inlet to said casing above the said flange, a shutter to said air inlet above the flange, a water outlet from the casing, and a spring-pressed plug valve for the outlet.

1,343,489. SYSTEM FOR INTERCONNECTING MANUAL AND AUTOMATIC TELEPHONE-EXCHANGES. GEORGE D. WOLF, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1914. Serial No. 861,686. 36 Claims. (Cl. 179—27.)



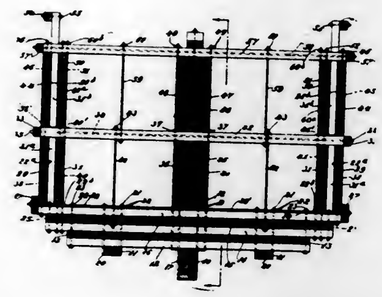
34. A telephone system including an operator's cord circuit provided with a key, trunk circuits, a calling device common to said trunk circuits, and electromagnetic means individual to each of said trunk circuits and responsive to an actuation of said calling device to connect said calling device with a trunk circuit.

1,343,490. VALVE. LINDEN ALBERTSON, Newark, N. J. Filed Jan. 24, 1918. Serial No. 213,558. 2 Claims. (Cl. 251—109.)



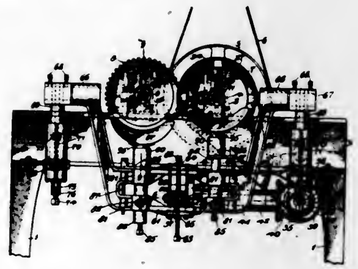
1. In a fountain brush, a valve comprising a casing bored transversely on three different diameters, a circular block workably fitting the two smaller diameters, a disk fitting the larger diameter and closing the said block in a chamber, the said casing being longitudinally channeled and channeled also at an acute angle to said longitudinal channel, the apex being at the center of said block, the said block mounting a hand grip surrounding said longitudinal channel and a soap chamber housing surrounding said angular channel, a diametrical conduit in said block to register with said longitudinal channel, a pair of radial conduits in said block having the same angle relative to each other as does the angular channel in the casing with the longitudinal chamber, and means for manually turning said block from the conduit registering with the port of said radial conduit to the conduit registering with the port of said diametrical conduit, and a spring means for urging the said block back to registry with said diametrical conduit.

1,343,491. SHIP. JOHN ARBUTHNOT, Victoria, British Columbia, Canada, assignor to Percy N. Furber, New York, N. Y. Filed Apr. 4, 1919. Serial No. 287,451. 18 Claims. (Cl. 9—15.)



1. In a structure of the class described, the combination with a hull-bottom comprising a plurality of courses of sticks of timber, the sticks of one course being arranged at right-angles to those of an adjoining course, of a superstructure having a central bulkhead adapted to form a backbone for the structure as a whole and prevent lateral displacement of the cargo.

1,343,492. TORIC-LENS-GRINDING MACHINE. RUDOLPH H. BECK and RUDOLPH J. BECK, Philadelphia, Pa. Filed Nov. 13, 1916. Serial No. 131,005. 14 Claims. (Cl. 51—58.)



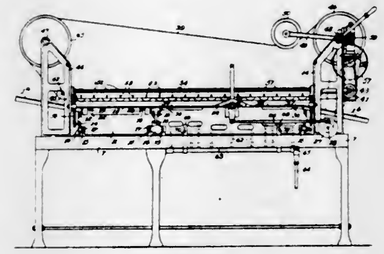
1. In a lens grinding machine, a lens block, a grinding device, and means to actuate said lens block and said grinding device, said actuating means including a driving and a driven member having interlocking lugs with lost motion between their driving faces to cause said grinding device to automatically change its path during the grinding operation.

2. In a lens grinding machine, a driving shaft, lens blocks rotated thereby, a yoke, posts on which said yoke is swingingly supported, means to adjustably support said posts, grinding laps carried by said yoke, and means to operatively connect said yoke with said driving shaft to effect the oscillation of said yoke.

1,343,493. APPARATUS FOR SOLDERING SHEET-METAL VESSELS. GEORGE H. BENNETT, Kendal, England, assignor to Gilbert Gilkes & Company, Limited, Kendal, England. Filed Nov. 8, 1916. Serial No. 130,243. 10 Claims. (Cl. 113—68.)

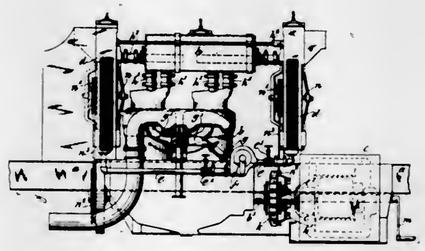
1. In an apparatus for soldering the ends of sheet metal receptacles, a solder tank, a solder slot or fountain in connection therewith composed of two lips between which the solder flows to the edges to be soldered, one of the said lips being higher than the other forming a guide rail for one end of the cans to roll on, a flux tank, a brush or

pad in connection therewith for applying a flux to the edges to be soldered, said brush or pad also constituting a guide rail for one end of the cans to roll on, a guide rail at a higher level to support the other end of the can, guide rails located in alinement with the said brush or



pad and the said lip and with the higher guide rail to form feed rails at one end of the apparatus and delivery rails at the other, and adjustable rests arranged in connection with the fluxing brush or pad and the solder slot to prevent endwise movement of the transversely disposed and canted cans.

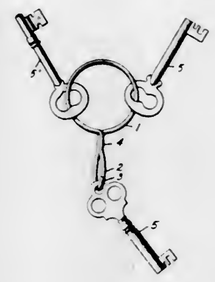
1,343,494. GENERATOR SET. ROBERT S. BOLGER, Richmond Hill, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 13, 1918. Serial No. 234,361. 2 Claims. (Cl. 123—174.)



1. The combination with a multicylinder water-jacketed motor, of two independent radiators, means to deliver water from the radiators to the water jacket of the motor, an equalizing tank, connections to deliver water from the water jacket of each cylinder of the motor to the tank in which streams of water from the jackets of all cylinders are thoroughly admixed and their temperature equalized, a single circulating pump between the radiators and the water jacket and separate connections to deliver water from the tank to the radiators.

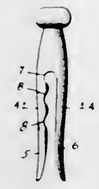
1,343,495. KEY-RING. VIRGINIA DAVIS, New York, N. Y. Filed Mar. 26, 1919. Serial No. 285,311. 2 Claims. (Cl. 59—98.)

1. As a new article of manufacture, a key ring formed from a continuous piece of wire and embodying a main ring having ends or leads extending therefrom and returned upon themselves to form a supplemental ring positioned in a plane perpendicular to the plane of the main ring, said supplemental ring being provided with



a slit or opening whereby a key may be inserted through the slit and secured to the ring.

1,343,496. CLOTHESPIN. VIRGINIA DAVIS, New York, N. Y. Filed Aug. 26, 1919. Serial No. 320,957. 3 Claims. (Cl. 24—138.)



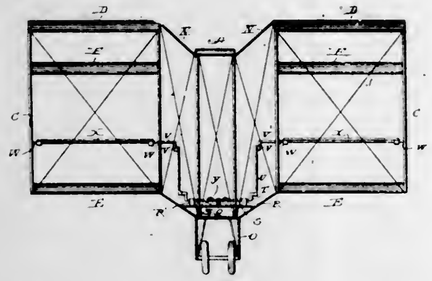
1. A clothes pin embodying a pair of resilient legs having a tapered slot therebetween, the interior face of one of said legs being transversely channeled for the purpose of precluding inadvertent disengagement of the pin from the clothes line forced into the slot and into engagement with a transverse channel thereof, at least one of said legs being of curvilinear cross section, and the base of the slot being enlarged to impart increased resiliency to at least one of the legs of the pin.

1,343,497. RIFFLED PNEUMATIC CONCENTRATING-TABLE FOR GRAVITATIONAL SEPARATION OF COMMINUTED MATERIAL. CHARLES W. ECCLESTON, Los Angeles, Calif. Filed June 24, 1918. Serial No. 241,707. 17 Claims. (Cl. 83—54.)



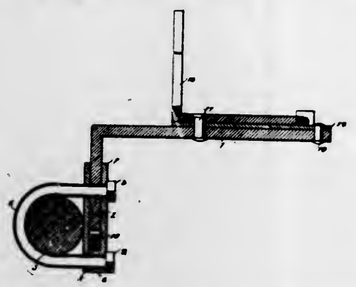
2. A concentrating table top comprising a sheet of elastic stretchable material having fine punctures normally closed therethrough in combination with rifles on top of such sheet, said rifles and said top of the sheet being in air of lower pressure, means to supply compressed air to the under-side of the sheet to stretch the same upward into said air of lower pressure and to open said punctures to said upper air of lower pressure so that material in air of lower pressure may be subjected to a gravitational action according to the differences of pressure involved.

1,343,498. AEROPLANE. JEFFERSON ELLARD, Texhoma, Okla. Filed Mar. 16, 1918. Serial No. 222,805. 1 Claim. (Cl. 244—12.)



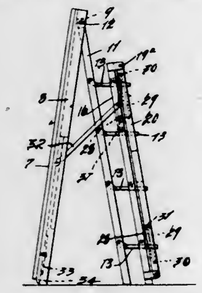
An aeroplane consisting of the main frame, tail and side frames, the upper, lower and intermediate wings carried by the side frames, the inclined wings or flaps connecting the main and side frames, the rudder and controlling mechanism, the tilting wings mounted in the side frames between the lower and intermediate wings, and the foot operated mechanism for controlling said tilting wings to regulate the ascent and descent of the machine.

1,343,499. LAMP-BRACKET. ROBERT FRANCIS FERGUSON, Detroit, Mich. Filed Nov. 18, 1919. Serial No. 338,944. 5 Claims. (Cl. 248—20.)



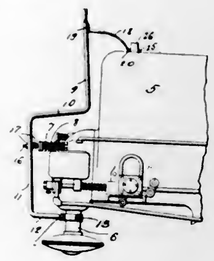
5. A lamp bracket consisting of two portions extending at approximately a right angle, a fixed support to which one of the arms of the bracket is pivoted, a lamp support pivoted to the other arm of the bracket, means in connection with the fixed support and the bracket for swinging said bracket on the support, and means in connection with the bracket and the lamp support for swinging said support on the bracket.

1,343,500. COMBINATION LADDER AND IRONING-TABLE. SAMUEL GELLIS, New York, N. Y. Filed July 22, 1919. Serial No. 312,607. 4 Claims. (Cl. 228—4.)



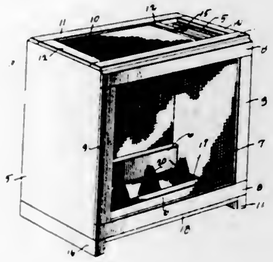
1. The combination of an ironing-board, brace-members pivotally connected at one end thereof to said board, step-members pivotally connected at the corners thereof to said braces, side rails pivotally connected to the step-members at the sides thereof, leg-members pivotally connected to said rails, and foldable braces connecting the leg-members and side-rails.

1,343,501. COMPRESSION-RELEASE. GEORGE A. GOEKE, Waukon, Iowa. Filed Sept. 23, 1919. Serial No. 325,791. 4 Claims. (Cl. 123—182.)



1. The combination with an explosive engine and a valve thereof, of a resilient lever connected with the engine, a push pin carried by the lever in position to engage and open the valve under the influence of resilient action of the lever, and means for holding the lever at times stressed and with its push pin inoperative.

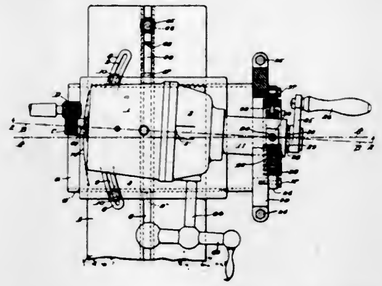
1,343,502. TRAP. JAMES H. GREER, Robinson, Kans. Filed Aug. 18, 1919. Serial No. 318,241. 2 Claims. (Cl. 43—118.)



1. A fly trap comprising a wire mesh bottom, said wire mesh bottom provided with entrance openings therein and having upstruck inwardly inclined flanges formed around the periphery of said entrance openings, tapering cones formed of wire mesh material fitting over said inwardly inclined flanges whereby the cones will be firmly anchored in engagement with the wire mesh bottom, and a housing for receiving said bottom and cones.

1,343,503. METAL-WORKING MACHINE. PETER P. G. HALL, Philadelphia, Pa. Filed Dec. 5, 1918. Serial No. 265,331. 15 Claims. (Cl. 10—154.)

2. In a thread milling mechanism having a rotating milling cutter, the combination of a housing, means for slidably supporting said housing for relative linear movement, means carried by said housing operative to hold a piece of work, means operative to impart to said work-holding means a relatively slow movement of rotation in one direction during a given linear progression with regard to said supporting means in a line parallel to the axis of said cutter, means operative to impart to said holding means a relatively rapid movement of rotation in a reverse direction during a linear recession with regard to said supporting means in a line parallel to the axis of said cutter, means operative to angularly adjust the position of said housing and holding means relative to said supporting means whereby the work is milled with a taper,



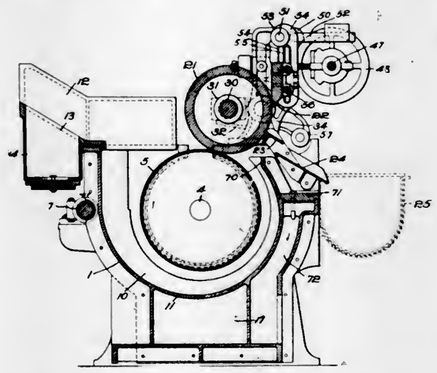
means operative to traverse said supporting means, housing and holding means in a direction substantially at right angles to the linear direction of progression and recession of said housing and holding means, whereby the work is placed into milling engagement, and adjustable means to limit the movement of said traversing means.

1,343,504. COLLAPSIBLE CORE. ARCHER H. HARRIS, Barberton, Ohio. Filed June 27, 1918. Serial No. 242,205. 7 Claims. (Cl. 18—45.)



1. A core composed of a plurality of separable segments, a tapered projection on each segment, and a one piece ring adapted to fit over the projections to hold the segments of the core together, the underside of said ring having a tapered groove to fit the projections, the taper of the projections and ring being such that the parts may be held together by friction alone without rotation of the ring.

1,343,505. PAPER-MAKING MACHINE. ANTON J. HAUG, Nashua, N. H., assignor to Improved Paper Machinery Company, Nashua, N. H., a Corporation of Maine. Filed Feb. 5, 1917. Serial No. 146,617. 37 Claims. (Cl. 92—43.)



1. In a paper making machine, the combination with a pulp tank and a rotary screen therein, of an overflow tank for the screened white water, and normally closed means for discharging the pulp residue of the tank at will to the white water chamber.

1,343,506. SPRING-BUTTON, DRESS-FASTENER, AND THE LIKE. FRANK HAWKINS, Sittingbourne, England. Filed Apr. 20, 1920. Serial No. 375,346. 1 Claim. (Cl. 24—218.)



A spring button, dress fastener, or the like, of the kind hereinbefore set forth, whereof the underside of the head of the male member is substantially flat, and one side of said head is pointed and extended laterally, while the female member is suitably apertured, and the springs are so arranged as to tend to retain the male member in such a position relatively to the female member that the flat underside of the former overlies the mating parts of the latter so that when the pointed lateral extension of the head has been introduced between the spring fingers with the axis of the male member inclined to that of the female member, the male member may be moved (with its axis still inclined) toward one side of the axis of the female member against the action of one of the spring fingers, the pointed lateral extension of the head passing through a lateral aperture in the female member, after which the axis of the male member having been brought parallel with that of the female member, the male member may be allowed to be moved by the stress of the displaced spring to a position in which the axes of the two members coincide and the underside of the head engages over both spring fingers, substantially as set forth.

1,343,507. PHONOGRAPH-NEEDLE. JOHN HEINO, New York, N. Y. Filed Apr. 10, 1919. Serial No. 289,087. 1 Claim. (Cl. 274—38.)

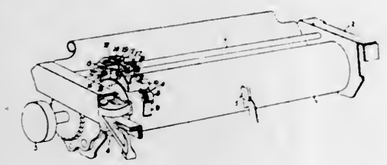


A phonograph needle, including a body provided with a longitudinal bore extending through its entire length, a slot extending from the bore to the exterior surface of the body, such slot being provided with a pair of branch arms, a T-shaped rib mounted within such slot and its branch arms, a filler within such bore, and means for constricting the bore and pressing the rib firmly thereinto to retain the filler in applied position.

1,343,508. PROCESS FOR THE RECOVERY OR PURIFICATION OF POTASSIUM SALTS. WILHELM HIRSCHKIND, Pittsburg, Calif., assignor to California Alkali Company, San Francisco, Calif., a Corporation of California. Filed Apr. 8, 1918. Serial No. 227,317. 21 Claims. (Cl. 23—22.)

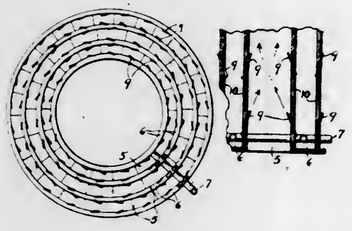
1. The process of separating from a mixture containing potassium salts and boracic acid, the potassium salts, which comprises treating the mixture with an alcohol to extract the boracic acid.

1,343,509. TYPEWRITING-MACHINE. NICHOLAS HORN, Paterson, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 6, 1917. Serial No. 200,477. 13 Claims. (Cl. 197—139.)



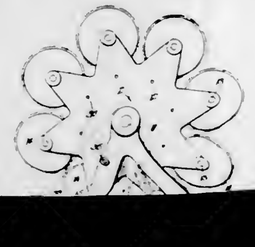
1. The combination with a platen, of a paper-finger for said platen, a shaft on which said finger is slidingly and pivotally mounted, a sleeve splined on said shaft, spring means reacting between said sleeve and said finger for causing said finger to grip said platen, and also causing said sleeve to bind on said shaft, so as to prevent accidental movement of said finger, and cam means separately operated with respect to the sliding and pivotal movement of said finger for taking up the tension of said spring means, so as to relieve said shaft, said sleeve and said finger of the action and reaction thereof.

1,343,510. AIR-LIFT FOOTPIECE. ARTHUR B. JENNINGS, New York, N. Y. Filed Feb. 20, 1918. Serial No. 218,216. 7 Claims. (Cl. 103—84.)



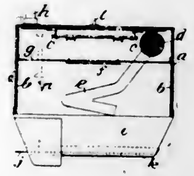
1. In an air-lift foot piece a water tube having a compressed air chamber on the outer and inner side thereof, and having a port entering the same from each compressed air chamber.

1,343,511. STOCK INDICATING AND RECORDING DEVICE. WILLIAM M. KELLY, Jersey City, N. J. Filed May 25, 1917. Serial No. 170,954. 18 Claims. (Cl. 101—373.)



cating means also carried by the support associated with the first means operable at each addition to or withdrawal from stock to show the balance of each article on hand.

1,343,512. APPARATUS FOR THE TREATMENT OF LOSS OF HAIR ON THE HEAD. JOSEPH KRAUER, Heaton Chapel, near Manchester, England. Filed May 1, 1916. Serial No. 94,816. 9 Claims. (Cl. 174—177.)



1. An apparatus for treatment of loss of hair on the head, comprising in combination, a receptacle to fit around the head, heat producing means within the receptacle and electro-magnetic means within the receptacle.

2. An apparatus for treatment of loss of hair on the head, comprising in combination, a receptacle to fit around the head, electric heat producing means arranged within the receptacle and adapted to radiate heat downwardly onto the head, electric means adapted to produce a magnetic flux within the receptacle substantially at right angles to the lines of heat radiation, and closing means on the receptacle for confining the heat within the receptacle.

3. An apparatus for the treatment of loss of hair on the head, comprising in combination, a receptacle adapted to fit around the head, an electro-magnetic coil secured within the receptacle, a core in the coil, a pole piece at each end of said core in magnetic contact therewith and extending downwardly at the sides of the said receptacle, electric heaters in the receptacle at the top thereof and means on said receptacle adapted to close the lower end thereof around the head, for the hereinbefore specified purpose.

4. An apparatus for the treatment of loss of hair on the head comprising in combination, a receptacle adapted to fit around the head, an electro-magnetic coil, a soft iron core in said coil, a soft iron pole piece at each end of said core in magnetic contact therewith and extending downwardly at the sides of said box, and electric heaters secured within said box, for the hereinbefore specified purpose.

5. An apparatus for the treatment of loss of hair on the head comprising in combination, a box adapted to fit around the head an electro-magnetic coil secured within said box, a soft iron core in said coil a pole piece rigidly secured to and extending laterally from each end of the said core electric heaters in said box and means for supporting the weight of the said box in its operative position around the head, for the hereinbefore specified purpose

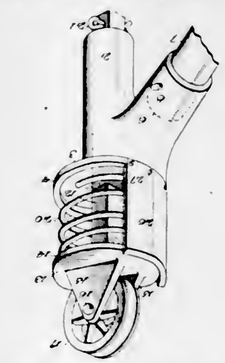
1,343,513. EXTENSION-SLIDE FOR CABINET-DRAWERS, CHARLES LENHART, New York, N. Y. Filed July 18, 1919. Serial No. 311,799. 1 Claim. (Cl. 45—77.)

In a device of the class described, a hollow member secured to the wall of the cabinet having a longitudinal

1. A trolley including a head having an oblique pole receiving socket and a vertical barrel formed integral therewith and provided with a squared bore, a plate arranged in spaced relation to said head and having a centrally arranged boss on its inner side, a squared plunger secured to said boss and slidable within said barrel, a coil spring surrounding said plunger and confined between said plate and said head, said plate and said head being provided with inwardly extending annular flanges for securing said coil spring in position, a pair of spaced apertured ears carried by said plate, and a wheel rotatably carried by said apertured ears.

1,343,592. ADJUSTABLE BED. JOHN R. STARK, Nashville, Tenn., assignor to Owens-Stark Manufacturing Company, Nashville, Tenn. Filed June 14, 1919. Serial No. 304,320. 2 Claims. (Cl. 5—12.)

1. In an adjustable bed, the combination of a supporting frame having parts of its side bars cut-away, track members pivotally attached to said side bars at their rear ends and provided at their front ends with means for detachably and directly engaging the side bars and locking cup-like member surrounding said nozzle and secured at its open end to said partition wall, and having a discharge for fuel located above said valve.



1,343,593. VACUUM-TANK. WILLIAM SPARKS, Jackson, Mich. Filed Feb. 18, 1919. Serial No. 277,794. 3 Claims. (Cl. 138—36.)

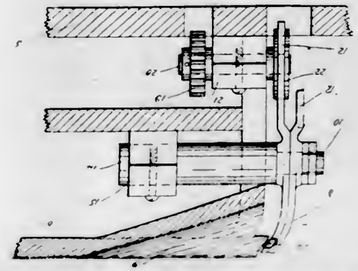
1. In a device of the class described, an upper chamber having an air exhaust, an air inlet and a fuel inlet, a second chamber, having a fuel discharge, a partition wall separating said chambers, a nipple depending from said

1. In a film pack, the combination with a holder having an exposure aperture therein, of a film case open at its inner end and slidable endwise therein, said film case being adapted to contain a plurality of film sheets, and means carried by the case for sliding a film from the latter into the holder when the case is withdrawn therefrom.



1,343,590. FILM-PACK. CLOYD H. SNYDER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 28, 1919. Serial No. 272,159. 11 Claims. (Cl. 96—22.)

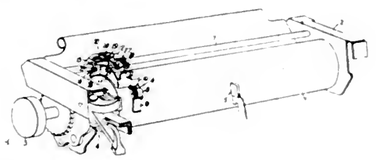
1. The combination, with a table having a substantially flat top over which the canes are slid longitudinally and rearwardly, said top being provided with a longitudinal open slide channel having an unobstructed open end at the rear edge of the table top and adapted to have the canes sprung downwardly into it, of a toppling device for severing the canes arranged in line with the lower rear end of the said channel.



1,343,592. TROLLEY. HENRY J. SPOONER and JAMES R. WELSH, St. Cloud, Minn. Filed June 30, 1919. Serial No. 307,302. 2 Claims. (Cl. 191—59.)

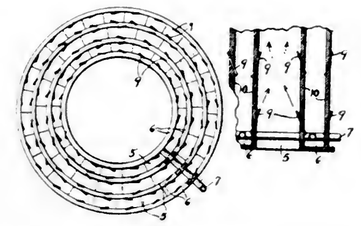
HENRY OSBORN SCANTON, deceased, late. Filed June 25, 1919. Serial No. 306,600. 6 Claims. (Cl. 146—2.)

1,343,509. TYPEWRITING-MACHINE. NICHOLAS HORN, Paterson, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 6, 1917. Serial No. 200,477. 13 Claims. (Cl. 197—139.)



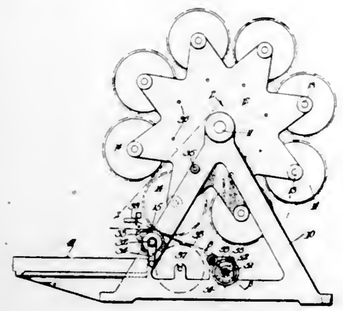
1. The combination with a platen, of a paper-finger for said platen, a shaft on which said finger is slidingly and pivotally mounted, a sleeve splined on said shaft, spring means reacting between said sleeve and said finger for causing said finger to grip said platen, and also causing said sleeve to bind on said shaft, so as to prevent accidental movement of said finger, and cam means separately operated with respect to the sliding and pivotal movement of said finger for taking up the tension of said spring means, so as to relieve said shaft, said sleeve and said finger of the action and reaction thereof.

1,343,510. AIR-LIFT FOOTPIECE. ARTHUR B. JENNINGS, New York, N. Y. Filed Feb. 20, 1918. Serial No. 218,216. 7 Claims. (Cl. 103—84.)



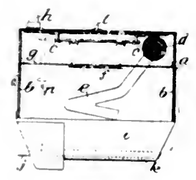
1. In an air-lift foot piece a water tube having a compressed air chamber on the outer and inner side thereof, and having a port entering the same from each compressed air chamber.

1,343,511. STOCK INDICATING AND RECORDING DEVICE. WILLIAM M. KELLY, Jersey City, N. J. Filed May 25, 1917. Serial No. 170,954. 18 Claims. (Cl. 101—373.)



1. A stock indicating and recording device including, in combination, a support, means carried by said support representing a plurality of articles, and quantity indicating means also carried by the support associated with the first means operable at each addition to or withdrawal from stock to show the balance of each article on hand.

1,343,512. APPARATUS FOR THE TREATMENT OF LOSS OF HAIR ON THE HEAD. JOSEPH KRAUER, Heaton Chapel, near Manchester, England. Filed May 1, 1916. Serial No. 94,816. 9 Claims. (Cl. 174—177.)



1. An apparatus for treatment of loss of hair on the head, comprising in combination, a receptacle to fit around the head, heat producing means within the receptacle and electro-magnetic means within the receptacle.

2. An apparatus for treatment of loss of hair on the head, comprising in combination, a receptacle to fit around the head, electric heat producing means arranged within the receptacle and adapted to radiate heat downwardly onto the head, electric means adapted to produce a magnetic flux within the receptacle substantially at right angles to the lines of heat radiation, and closing means on the receptacle for confining the heat within the receptacle.

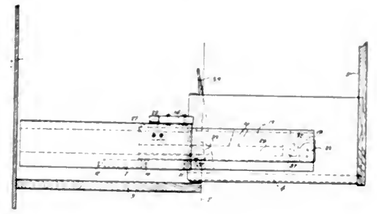
3. An apparatus for the treatment of loss of hair on the head, comprising in combination, a receptacle adapted to fit around the head, an electro-magnetic coil secured within the receptacle, a core in the coil, a pole piece at each end of said core in magnetic contact therewith and extending downwardly at the sides of the said receptacle, electric heaters in the receptacle at the top thereof and means on said receptacle adapted to close the lower end thereof around the head, for the hereinbefore specified purpose.

4. An apparatus for the treatment of loss of hair on the head comprising in combination, a receptacle adapted to fit around the head, an electro-magnetic coil, a soft iron core in said coil, a soft iron pole piece at each end of said core in magnetic contact therewith and extending downwardly at the sides of said box, and electric heaters secured within said box, for the hereinbefore specified purpose.

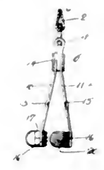
5. An apparatus for the treatment of loss of hair on the head comprising in combination, a box adapted to fit around the head an electro-magnetic coil secured within said box, a soft iron core in said coil a pole piece rigidly secured to and extending laterally from each end of the said core electric heaters in said box and means for supporting the weight of the said box in its operative position around the head, for the hereinbefore specified purpose.

1,343,513. EXTENSION-SLIDE FOR CABINET-DRAWERS. CHARLES LENHART, New York, N. Y. Filed July 18, 1919. Serial No. 311,799. 1 Claim. (Cl. 45—77.)

In a device of the class described, a hollow member secured to the wall of the cabinet having a longitudinal channel, rollers in the lower part of said member, a longitudinal slot in the roof thereof, a cushion bumper thereon, a second member adapted to slide within said first-named member on said rollers, the latter member provided with a longitudinal channel and a bumper at its rear adapted to pass through said slot and to strike said first-named bumper in the extended position of the drawer, oblique channels in said second-named member communicating with said longitudinal channel therein, a cushioned bumper in the forward part of said second-named member, a roller projecting through the roof thereof, a plate adapted to be attached to said drawer having rollers mounted thereon, said rollers adapted to engage the floor of said channel in said second-named member, loose sleeves on the pins of said rollers, and means in said first-named member to prevent shock to the rollers in the lower part thereof on return motion of said drawer, comprising a metallic block having a plane top surface substantially tangential to said last-named rollers at the topmost points of said rollers, and extending over substantially the entire distance between two of said rollers.

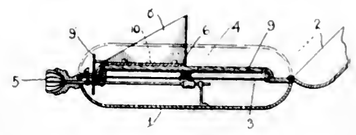


1,343,514. HOSE AND GARMENT SUPPORTER. JAMES E. LINDSAY, Selma, La. Filed June 3, 1919. Serial No. 301,379. Renewed Mar. 4, 1920. Serial No. 363,285. 3 Claims. (Cl. 24—260.)



1. A garment supporter comprising supporting arms having elongated arcuate jaws secured to their terminals, each jaw being provided with a covering, the said covering having pockets in its ends to receive the ends of the said jaws, the approximate surfaces of the covering being corrugated, and flaps formed on the covering and adapted to be glued together to maintain the covering in position on the said jaws.

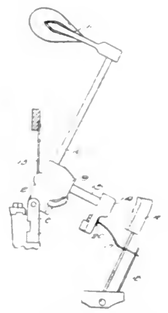
1,343,515. SUN-DIAL AND COMPASS. MURRAY M. MADDEN, Shiprock, N. Mex. Filed Nov. 21, 1919. Serial No. 339,600. 2 Claims. (Cl. 33—62.)



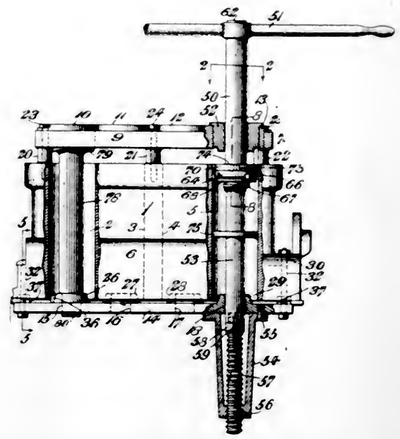
1. A device of the class described comprising a case, a dial having compass indications thereon, a compass needle carried by the case, a support extending over the dial, a gnomon pivotally mounted on said support, and means for operating the gnomon and locking and releasing the needle.

1,343,516. PIANO-BRIDLE-STRAP FASTENER. THOMAS JEFFERSON MALCOLM, Okmulgee, Okla. Filed Mar. 17, 1919. Serial No. 283,227. 1 Claim. (Cl. 84—26.)

The combination with a piano action having a hammer butt provided with a countercheck formed with an opening, of a removable bridle strap comprising a member having a perforation near one end for accommodating a bridle wire to permit detachable connection of said member therewith, and compressible means constructed and arranged to be received in the opening in the countercheck for removably securing the other end of said member therewith.



1,343,517. APPARATUS FOR REBORING AND REAMING CYLINDERS OF ENGINES. JOHN J. CHAMPION and THOMAS B. MARTINDALE, Philadelphia, Pa., assignors to Champion Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,256. 8 Claims. (Cl. 77—2.)

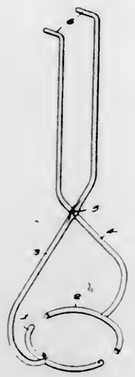


2. In an apparatus for reboring engine cylinders, means for fixedly supporting a cylinder housing to be rebored during the operation of the reboring of its cylinders; means for positioning a reboring mechanism to operate upon the cylinders of said housing, which comprises a top locating plate formed with locating holes numerically corresponding to the cylinders of the housing to be rebored and a bottom locating plate similarly formed with locating holes corresponding numerically to the holes of the top locating plate and to the cylinders to be rebored; means for fixedly securing to said housing said positioning means; and reboring mechanism.

1,343,518. FRUIT-JAR TONGS. FREDERICK M. MASKER, Plainfield, N. J. Filed July 23, 1917. Serial No. 182,218. 1 Claim. (Cl. 294—28.)

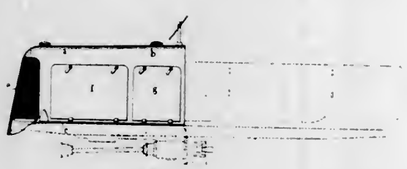
A jar lifter of the character described comprising a pair of levers disposed in crossed relation to each other

intermediate their ends, a transverse pivot connecting the levers at the crossing point thereof, the levers at one side of the pivot being straight and formed with end portions bent at right angles thereto, the remaining portions of the



levers being reversely bent at an angle to the straight portion and inwardly curved for a distance thereof, and opposed semicircular shaped jaws connected intermediate thereof to the extremities of the curvatures of said levers.

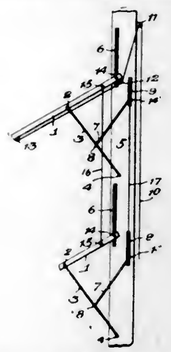
1,343,519. COMBINED BONNET AND CAR-BODY FOR AUTOMOBILE-VEHICLES. CHARLES MARIUS MOTTE, Paris, France, assignor to Mrs. Delqué, born Marie Amelie Habans, and CHARLES MARIUS MOTTE, Paris, France. Filed July 22, 1918. Serial No. 246,111. 4 Claims. (Cl. 180—89.)



1. In an automobile vehicle, a removable unit independent of the automobile body, said unit comprising a bonnet for inclosing the engine and an extension of said bonnet integral therewith extending beyond the dash board, and sole plates connected to the lower edges of said bonnet and extension, said sole plates being adapted to rest on the underframe of the vehicle and extending rearwardly beyond the dash board.

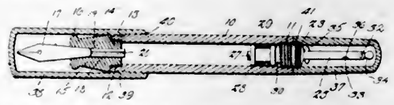
1,343,520. WINDOW. ANTIME MOTTEAU, Buenos Aires, Argentina. Filed July 18, 1918. Serial No. 245,517. 1 Claim. (Cl. 20—42.)

In a window, the combination of a frame having its side members provided with two pairs of upper and two pairs of lower guides, the corresponding guides of said frame members confronting each other; upper and lower swinging sashes each provided at one end with a pair of pivots, the pivots of each sash being adapted to travel along one of the corresponding pairs of guides; a pair of supporting rods for each sash pivoted at end to the sash and at the other end to the frame at a point beyond the sash; a second pair of supporting rods for each sash pivoted at one end to the corresponding first-named rods and arranged at the other end to travel along the other pair of corresponding guides; a vertical member connected at opposite ends to the sashes to cause both sashes to swing in unison and in the same direction when one sash is operated; and a vertical rod connected at opposite ends



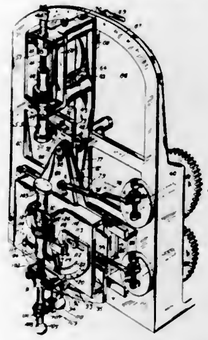
to the corresponding rods of the second-named pairs of supporting rods.

1,343,521. FOUNTAIN-PEN. ANTHONY C. RADER, Alta, Iowa. Filed Nov. 17, 1919. Serial No. 338,445. 4 Claims. (Cl. 120—47.)



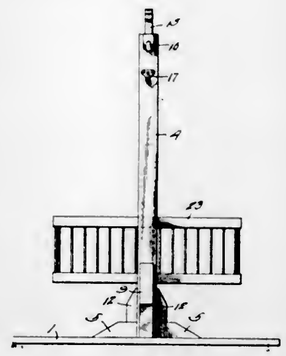
1. A self filling fountain pen comprising a barrel, a feed device at one end of the barrel, adapted for receiving a pen point, a plunger slidable in the barrel, and means to close the opposite end of the barrel, said last mentioned means comprising a plug, a foldable piston rod connected to the plunger and operating through said plug, a cap over the plug and a cap engaged on the opposite end of the barrel and adapted to be engaged over the first-named cap when the pen is in use, said rod comprising a slotted portion, another portion pivoted to the end of said slotted portion and movable in the slot thereof, said movable portion having lateral projections at its free end.

1,343,522. PROCESS FOR GRINDING AND POLISHING LENSES. ALEXANDER COPLAND ROBERTSON, North Sydney, and FRANK VOLK, Enfield, New South Wales, Australia, assignors to Universal Grinding Machine Company, Reno, Nev., a Corporation of Nevada. Filed Apr. 15, 1916. Serial No. 91,357. Renewed Oct. 22, 1919. Serial No. 332,400½. 12 Claims. (Cl. 51—3.)



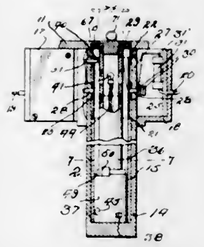
3. The process of producing lenses, which consists in grinding two blanks at substantially the same rate of wear, one against the other while the axes of said blanks are fixed in angular relation.

1,343,523. JUMPER OR CRIB. MICHAEL J. RUDDY, Scranton, Pa. Filed Jan. 16, 1920. Serial No. 351,747. 2 Claims. (Cl. 155—17.)



1. In a device of the character described, a base comprising lateral members; a cross piece secured thereto; said cross piece being provided with openings in its ends and snugly set in notched portions of the lateral members; a bracing member arranged on each lateral member and provided with an opening registering with the opening in the ends of the cross-piece; an upright having a portion snugly fitting into the openings in the bracing member and the cross piece; means for additionally bracing these members; and means for securing the components together.

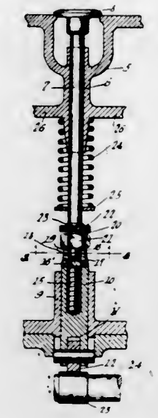
1,343,524. SAFETY-ZONE INDICATOR. STANLEY H. SHACKELFORD, Washington, D. C. Filed June 1, 1917. Serial No. 172,188. 5 Claims. (Cl. 177—330.)



3. A safety zone indicator comprising a well casing, an insulating lining for said casing, a post slidable in said lining for projection therefrom at times, means for supporting the lower end of the post at the upper portion of the casing, a lamp carried by the post, outwardly urged contacts carried by the lower portion of the post, stationary contacts projecting through said lining and engageable with said post contacts and a circuit including the post contacts and the lamp.

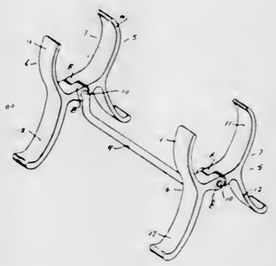
1,343,525. VALVE-ADJUSTER. FRED H. SHARAR, Williamsport, Pa. Filed Dec. 8, 1919. Serial No. 343,256. 2 Claims. (Cl. 123—90.)

1. A tappet valve construction including a push rod, a thimble supported within the push rod, said thimble having an upper tapered portion, said tapered portion being internally and exteriorly threaded, an adjusting screw having a threaded shank coöperating with the internal threads of the thimble for securing the thimble and adjusting screw together, a nut operating on the external threads of the thimble for locking the adjusting screw to



the thimble, said adjusting screw having a head providing a seat for the valve rod, and means for holding the valve rod to the adjusting screw.

1,343,526. TIRE-SUPPORT. HERBERT M. SMITH, Buffalo, N. Y. Filed Feb. 27, 1918. Serial No. 219,369. 2 Claims. (Cl. 211—28.)

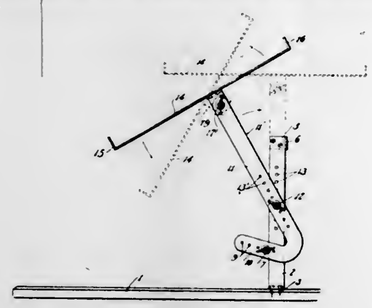


1. A tire support comprising a plurality of clamps, each clamp comprising two clamping members, each provided with an inwardly extending lug, and a hinge rod provided with an offset portion for pivotally uniting each pair of clamping members and connecting each pair of clamps, each of said clamping members having an upwardly extending clamping arm shaped to conform to the tire to be supported, and a downwardly and outwardly extending leg for providing a base for the support.

1,343,527. COPY-BOOK HOLDER. PAUL STOELZEL, Adams, Mass. Filed Nov. 11, 1919. Serial No. 337,285. 3 Claims. (Cl. 120—28.)

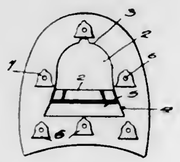
2. A holder, for the purpose described, comprising, in combination, a base-piece, perforated uprights fixedly secured to the opposite sides of the base-piece, a book-supporting member, means for pivotally and adjustably securing the member to the uprights, said means including angular shaped perforated arms one of the limbs of the

arms being pivotally connected to the uprights and the other limbs having a rod passing through the perforations



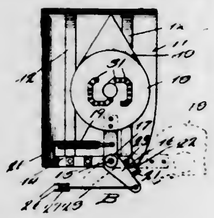
and engaging the forward edges of the uprights to limit the forward or tilted position of the arms and the book supporting member carried by the arms.

1,343,528. CUSHION-HEEL. CHRISTIAN C. STOLZENBURG, Elyria, Ohio. Filed Aug. 20, 1918. Serial No. 250,748. 1 Claim. (Cl. 36—35.)



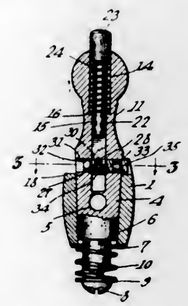
A rubber heel comprising upper and lower faces, the lower face having a bell-shaped recess formed therein, a transverse rib across said recess extending beyond the surface of the lower face for engaging the ground to prevent slipping and to prevent accumulation of mud in the recess, the upper face having a bell-shaped recess formed therein, a longitudinal rib in the recess and terminating short of one end and above the central portion of the transverse rib on the lower face for coöperating with the transverse rib in reinforcing the material between the recesses, an enlargement or head on the terminal end of the longitudinal rib above the central portion of the transverse rib for forcing the central portion of the transverse rib downwardly into the engagement with the ground upon application of weight or pressure upon the heel.

1,343,529. DIRECTION-INDICATOR FOR AUTOMOBILES. BERT SUTTON, Dover, N. J. Filed Apr. 25, 1917. Serial No. 164,476. 2 Claims. (Cl. 116—54.)



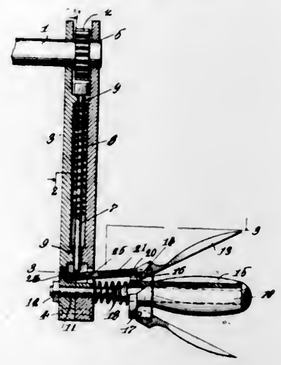
1. The combination with a motor vehicle and the tail light thereof, of a direction indicator including a casing, a plurality of indicator plates mounted on bell crank levers pivoted in the casing and selectively movable outwardly thereof and into the path of the light rays from the tail light, said plates being provided with perforated designations through which the light rays will project, a single stop fixed to the casing for engagement by the respective arms of the bell-crank levers to limit movement of the latter in either direction, and actuating means connected independently with the bellcrank levers.

1,343,530. GAS-COCK. ALBERT ROMAIN TALLMAN, Nashville, Tenn. Filed Oct. 20, 1919. Serial No. 331,770. 1 Claim. (Cl. 251—165.)



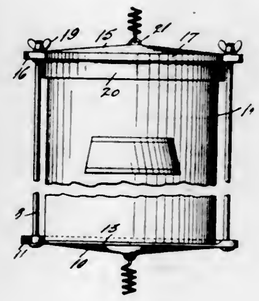
In a device of the class described, a casing; a valve journaled in the casing; a latch slidable in the valve and coöperating with the casing to hold the valve against rotation, the latch being cut away to form a flat side leaving disk-like bearing portions adjacent to the ends of the latch, there being an inclined groove in the flat side of the latch; a plunger slidable in the valve and disposed at right angles to the latch, the plunger being cut away on one side to form a shoulder, and being cut away on its opposite face to form a flat side in slidable contact with the flat side side of the latch, there being an inclined rib projecting from the flat side of the plunger and received in the groove of the latch; spring means coacting directly with the plunger to retract the plunger; and a detent in the valve, the detent coacting with the shoulder of the plunger to limit the movement of the plunger under the action of the spring means.

1,343,531. AUTOMOBILE-CRANKER. ALEXANDER C. TENNYSON, Alexandria, La. Filed Mar. 24, 1919. Serial No. 284,690. 2 Claims. (Cl. 74—33.)



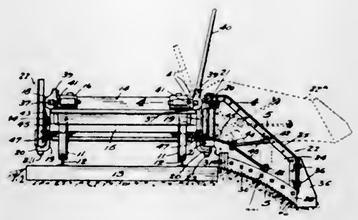
1. In an automobile cranker, the combination with the crank shaft having a gear, a crank journaled on the shaft, a latch movably mounted within the crank and having a head adapted to engage said gear, said crank having a chamber near its outer end with a slot opening into one side of same, and a cam face within the other side thereof, of a bolt through the outer end of the crank, a handle and a collar on the bolt, a spring on the bolt between the crank and the collar, and a finger mounted on the collar and projecting through the slot into contact with said cam, and means for moving said collar longitudinally of said bolt.

1,343,532. CHURNING DEVICE. ROBERT A. THOMPSON and LUTE P. MORRIS, Dallas, Tex., assignors to International Manufacturing Company of Texas, Dallas, Tex. Filed Sept. 25, 1919. Serial No. 326,235. 3 Claims. (Cl. 259—91.)



1. In a churning device, the combination with a churn receptacle, of a supporting plate having an upstanding flange and a flat lip for receiving the bottom of the receptacle, a cap having a depending flange bearing on the cover of the churning receptacle, and connections between the cap and plate for clamping the receptacle in the carrier.

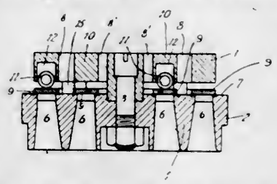
1,343,533. BALLAST-SURFACER. PASQUALE URSINO, Ellensburg, Wash. Filed Aug. 26, 1919. Serial No. 319,951. 5 Claims. (Cl. 37—58.)



3. In apparatus of the character described, a car, a frame connected to the side thereof for horizontal movements, means to releasably secure said frame to extend laterally from the car, and spaced grading and surfacing blades secured to the front and rear sides respectively of said frame so as to afford a channel below the latter.

1,343,534. AUTOMATIC RING-PLATE VALVE. JOHANN HEINRICH HERMANN VOSS, Mount Vernon, N. Y. Filed Jan. 16, 1919. Serial No. 271,360. 10 Claims. (Cl. 251—119.)

3. In a valve of the type specified, a cap section and a seating section spaced apart, a port in said seating section, a valve disposed between said sections closing said port, and a spiral spring nested at its ends in said cap section



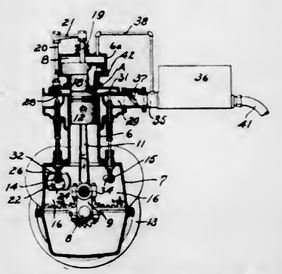
and bowed outwardly to engage said valve to retain it on its seat.

1,343,535. MILEAGE-INDICATOR FOR TIRES. THOMAS THEODORE WATSON and JOHN WARREN WATSON, Wayne, Pa.; Annie Hodson Watson executrix of said Thomas Theodore Watson, deceased. Filed Sept. 11, 1916. Serial No. 119,405. 8 Claims. (Cl. 235—1.)



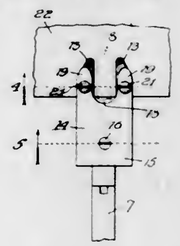
1. In combination with a vehicle tire, of means fixed with relation to said tire and means movable with respect thereto, adapted to coöperate therewith by impact and actuated by the forces of gravity and acceleration and retardation coincident with the cycloidal or prolate-cycloidal movement during use, to progressively alter the shape of a substance to thereby indicate the extent of tire travel.

1,343,536. COMPRESSOR APPARATUS. WALTER S. WEEKS, Berkeley, Calif. Filed Feb. 19, 1917. Serial No. 149,419. 17 Claims. (Cl. 60—37.)



1. In a device of the character described, a cylinder, a motor piston adapted to operate said device arranged in said cylinder and means operated by the pressure of the exhaust gases for varying the clearance above said motor piston.

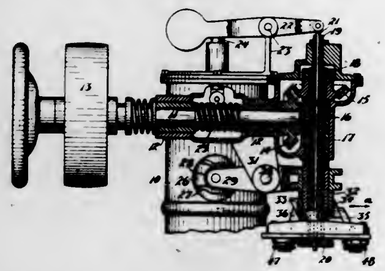
1,343,537. SHEET-GRIPPER. WILLIAM E. WEGENER, Chicago Heights, Ill. Filed Feb. 26, 1920. Serial No. 361,454. 8 Claims. (Cl. 101—413.)



2. A sheet gripper comprising members by which the sheet is engaged, certain of said members being spaced

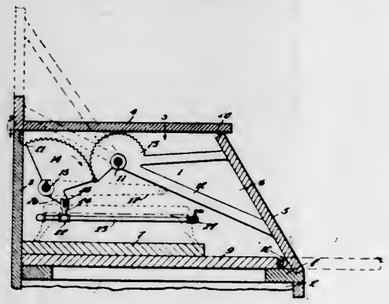
apart and another thereof located between said spaced apart members, and means for relatively adjusting said members to adapt the device for use with sheets of different thicknesses.

1,343,538. DOUBLE-SEAMING MACHINE. ALFRED W. WHEELER, San Francisco, Calif. Filed Dec. 3, 1918. Serial No. 265,095. 4 Claims. (Cl. 113—24.)



1. A head for double seaming machines, comprising a vertical spindle, a fixed guide member upon the end of said spindle, and extending from diametrically opposite sides thereof a slide block carried by the guide member to slide longitudinally thereof and in a plane at right angles to the axis of the spindle, seaming rollers rotatably supported by the sliding member and disposed in spaced relation to each other, face cams formed upon the sliding member and positive reciprocating means for moving said sliding member as controlled by the cams whereby the seaming rollers may be alternately brought to engage the periphery of a can disposed therebetween while the entire head structure is continuously rotating.

1,343,539. COOKING-CABINET. GEORGE W. WIESEHAN, Cleveland, Ohio. Filed Nov. 21, 1919. Serial No. 339,738. 2 Claims. (Cl. 126—37.)



1. The combination with a cabinet having a swinging front, of a gear attached to said front, an operating crank shaft extending through a wall of the cabinet and having a gear meshing with said gear and adapted to swing the front open when the crank shaft is turned, and a gas stove in the cabinet having a fuel supply pipe provided with a valve, and an operating connection between the crank shaft and the valve.
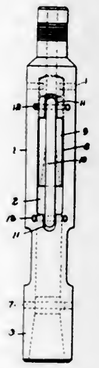
1,343,540. VEHICLE-TIRE. JOSEPH ALLEND, Philadelphia, Pa. Filed Apr. 2, 1919. Serial No. 287,003. 7 Claims. (Cl. 152—8.)

6. The combination of a wheel rim, a tire thereon, and means to secure the tire to the rim comprising a block seated against said rim and having a projection provided with an opening, a part rotatable on the block, a flexible member embracing the tire and the rim and having end portions connected to said part, whereby when said part is turned said tire and rim will be clamped together, a bar



connected to said part and operative to turn the same and having an opening therein to receive said projection, and a cotter pin inserted into the opening in the projection to lock the bar thereto.

1,343,541. SWIVEL-JAR SOCKET PAUL ARBON, Tulsa, Okla. Filed Mar. 18, 1920. Serial No. 366,950. 4 Claims. (Cl. 255—26.)

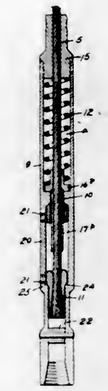


1. The combination of a body portion having a cylindrical bore extending with uniform diameter from its lower end and a tubular rope guiding extension at its upper end, the internal diameter of such extension being less than that of the bore thereby providing an annular shoulder or abutment, a movable jar or block arranged in the bore and adapted to be connected to an operating rope, an internally threaded box at the lower end of the body portion, a plug secured in the bore above the threaded box, the walls of the socket above the sealing plug being slotted for the admission and removal of the jar or block and a retaining bar having a width less than that of said slot and means for so holding the bar in the slot that it may be shifted on an axis adjacent to one end to permit of the insertion and removal of the jar or block.

1,343,542. SPRING SWIVEL-JAR SOCKET. PAUL ARBON, Tulsa, Okla. Filed Mar. 18, 1920. Serial No. 366,952. 3 Claims. (Cl. 255—26.)

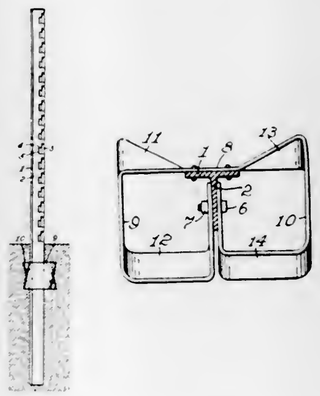
1. The combination of a shell having one end adapted to be connected to a string of tools and provided with a shoulder or abutment, a block adapted to be connected to an operating rope and a spring, the block and spring being arranged below and above the abutment respectively, a seat on the shell for the upper end of the spring, and

means interposed between the block and spring for transmitting the weight of the shell and parts carried thereby



to the block and permitting on the compresion of the spring the transference of such weight from the spring to the abutment.

1,343,543. FENCEPOST. CHARLES B. BAUMGARTNER, Manchester, Iowa. Filed May 20, 1919. Serial No. 298,454. 2 Claims. (Cl. 189—29.)



1. In combination, a standard having a longitudinal rib, a plate secured to the standard, and being shaped and located relative to the standard and its rib to inclose both and form therewith a pair of inclined open-ended chambers on opposite sides of the rib.

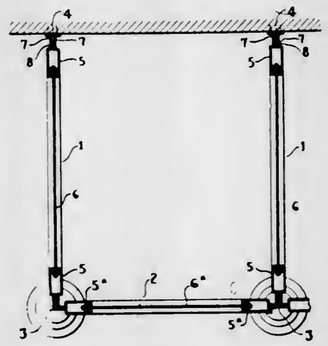
1,343,544. FENCEPOST. CHARLES B. BAUMGARTNER, Manchester, Iowa. Original application filed May 20, 1919, Serial No. 298,454. Divided and this application filed Sept. 8, 1919. Serial No. 322,490. 2 Claims. (Cl. 256—58.)

1. A post having wire receiving and holding means, said means consisting of a projection partially incised from the past rectangularly and bent at a small angle therefrom opening upwardly, the incision removing a portion of the post to provide a slotted orifice with the top of the



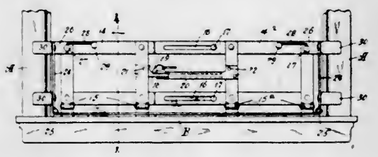
slot constituting a shoulder located below the top of the projection.

1,343,545. SHEET-METAL DOOR OR PARTITION CONSTRUCTION. CHARLES A. BETZ, Jersey City, N. J. Filed Aug. 29, 1919. Serial No. 320,665. 2 Claims. (Cl. 189—46.)



1. A sheet metal door or partition construction, comprising a boxed frame part having its inner side slotted and provided with internal diverging inclined lips, a panel sheet entered in the slot and between the lips, and a channeled lock strip having converging inclined side portions in clasping face contact with the diverging inclined lips.

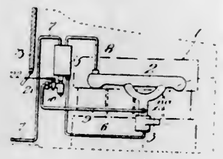
1,343,546. SAFETY DEVICE FOR USE IN CLEANING WINDOWS. FREDERICK W. BIELITZ, Jersey City, N. J. Filed Mar. 14, 1919. Serial No. 282,582. 3 Claims. (Cl. 304—26.)



1. A device of the kind described comprising seat, back and end sections, stepped braces pivotally connected with

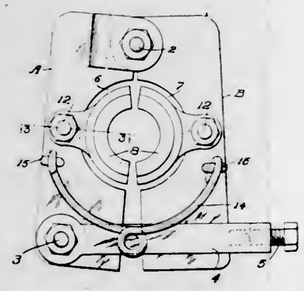
said seat section for supporting said device from below, the pivotal axes of said braces extending lengthwise thereof whereby said braces are movable to inoperative positions beneath said seat sections and means for connecting said device with a window.

1,343,547. PRIMING MEANS FOR INTERNAL-COMBUSTION ENGINES. THEODORE F. BOURNE, Upper Montclair, N. J. Filed Nov. 9, 1918. Serial No. 261,760. 6 Claims. (Cl. 123—187.5.)



1. The combination of an internal combustion engine having an intake conduit a carbureter communicating with said conduit, a receptacle for liquid fuel communicating with said carbureter to supply it by gravity, means providing, except for the valve hereinafter named, unobstructed communication between said receptacle and said intake conduit below the normal liquid level in the receptacle to supply priming charges by gravity for the engine from said receptacle independent of the carbureter and a valve to control said first named means.

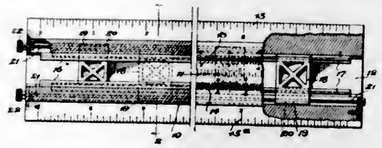
1,343,548. PIPE-CLAMP. JOHN E. BRANIS, San Lorenzo, Calif. Filed Aug. 13, 1919. Serial No. 317,191. 2 Claims. (Cl. 24—249.)



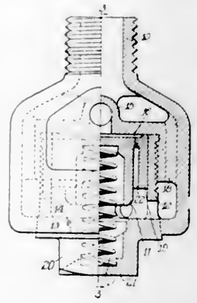
1. In a pipe clamp, a pair of hingedly connected clamping sections having mating semi-circular recesses, an arcuate gripping jaw for each section having its rear side face curved and disposed adjacent the inner side of the section, a radial forked part extending outwardly from said curved rear side of the jaw at the center of the latter, said forked part engaging the upper and lower faces of the section, a bolt extended through the forked part and through the section to removably and pivotally connect the jaw to the sections, and means to lock the sections against movement and about the hinge thereof, the curved rear side faces of the jaws being arranged adjacent to the walls formed by the semi-circular recesses of the clamp-sections so that said walls will restrict pivotal movement of the jaws.

1,343,549. SLIDE-RULE. CLINTON J. DAVIDSON, Berkeley, Calif. Filed Dec. 7, 1918. Serial No. 265,751. 8 Claims. (Cl. 235—70.)

6. A device of the character described comprising a body having a longitudinally extending slide way formed in one face and provided with a scale extending along a margin of said way, a pair if guide rails fitted in grooves in the side walls of the slide way, a graduated slide arranged within the slide way and engaging said rails, said slide being movable relative to said rails and slide way to secure approximate alinement between a graduation thereon and a graduation of the scale on the body, a bridge member connecting said rails and extending beneath the graduated slide, and a screw rod mounted in bearings in the body and projecting beyond one end thereof, said rod engaging the bridge member whereby it is adapted to move both the rails and intermediate slide relative to the body.

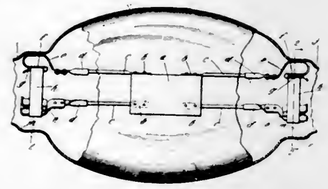


1,343,550. AUTOMATIC DRAIN-VALVE. THOMAS W. DEMAREST, Fort Wayne, Ind. Filed Mar. 23, 1917. Serial No. 157,016. 9 Claims. (Cl. 137—103.)



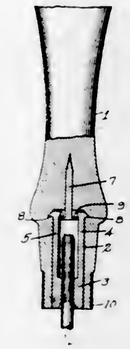
1. A device of the character described comprising a member having a connection to a cylinder, a connection to a boiled, a drain valve adapted to open when the cylinder pressure rises above a predetermined value and a restricted continuously open connection between said first mentioned connections whereby steam may be admitted to the cylinder from the boiler independently of the cylinder valves proper.

1,343,551. MEANS FOR SUPPORTING ELECTRODES IN IONIC TUBES. OSWALD DURDLE, London, England, assignor to Osram-Robertson Lamp Works Limited, London, England. Filed Aug. 9, 1918. Serial No. 249,099. 5 Claims. (Cl. 250—27.)



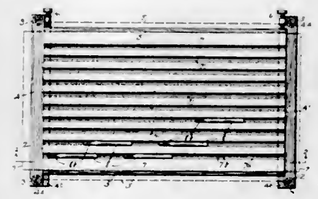
2. The combination of an ionic tube having spaced annular recesses therein, an anode located between said recesses in said tube, carrier rods extending in opposite directions from said anode and attached thereto, sockets rotatably mounted upon said carrier rods and elastic fingers carried by said sockets and seated in said annular recesses whereby said anode is supported in said tube.

1,343,552. HANDLE FOR TOOLS. HORATIO S. EARLE, Detroit, Mich., assignor to H. S. Earle Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed Mar. 10, 1917. Serial No. 153,813. 4 Claims. (Cl. 279—104.)



1. A handle for tools consisting of a body portion having a longitudinal recess at one end, a threaded nut insertible in the recess, a pair of prongs attached to the nut extending into the recess and terminating adjacent the bottom thereof, the prongs having oppositely positioned laterally extending points, the prongs being adapted to be bent inwardly to pass freely into the recess to allow ready insertion of the nut therein, each prong also having an inwardly projecting part at the end, a spreader having a head positioned between the prongs and adapted to be driven into the handle at the bottom of the recess, the head being of a diameter to spread the prongs as it is driven and seating against the inwardly projecting parts of the prongs, and a threaded tang for the nut.

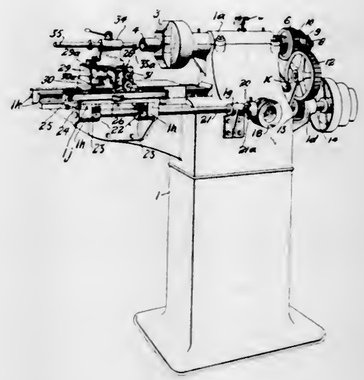
1,343,553. WORK-SUPPORTING TABLE. GEORGE H. FAICHNEY, Watertown, N. Y., assignor to The Randall-Faichney Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 23, 1920. Serial No. 353,433. 4 Claims. (Cl. 144—288.)



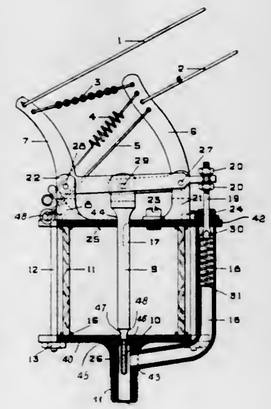
1. In a work-supporting table, a rectangular plane body having a plurality of parallel Y-shaped grooves in its top face, a support for said body, means for guiding said body when moved longitudinally independent of said support, and means for adjusting said support for moving said body laterally in a horizontal plane.

1,343,554. MACHINE FOR FORMING GROOVES. WILLIAM F. FISCHER, Philadelphia, Pa. Filed June 28, 1919. Serial No. 307,416. 21 Claims. (Cl. 90—24.3.)

1. In a machine of the character described, the combination of a journaled spindle having means for holding work, driving mechanism, means for engaging and disengaging said spindle with relation to said driving mechanism, a cutting tool, means whereby said driving mechanism reciprocates said cutting tool in contact with the work held by said spindle, and means whereby said driving mechanism reciprocates said cutting tool to engage and disengage it periodically with relation to said work



1,343,555. ENGINE-PRIMER. CARL G. FREDRICKSON, Waltham, Mass. Filed Apr. 1, 1919. Serial No. 286,678. 4 Claims. (Cl. 123—180.)

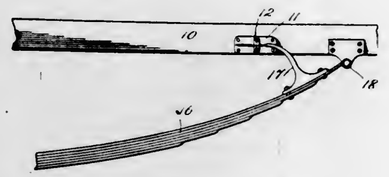


1. In a priming device for internal combustion engines, a receptacle for the priming liquid having an outlet in its bottom, a valve for controlling the discharge of the priming liquid from said receptacle into said outlet, an air supply passage leading to said outlet from the atmosphere, a valve for controlling the entrance of air through said passage, and means for opening the two valves simultaneously from a single hand control or for opening the air controlling valve independently of the other.

1,343,556. LOADING-INDICATOR FOR VEHICLES. ROBERT S. GANS, New York, N. Y. Filed Aug. 14, 1919. Serial No. 317,421. 4 Claims. (Cl. 265—42.)

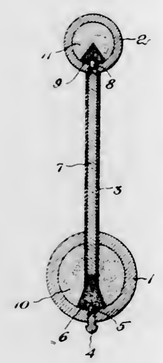
1. In a spring-supported vehicle, the combination of a vehicle frame, leaf springs supporting the same, fastened

at their ends to the vehicle frame, a pointer fixed to one of said springs and indicating means on the vehicle frame



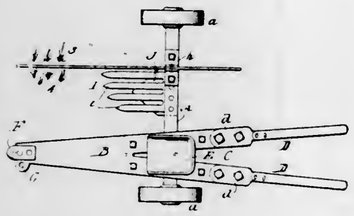
adapted to cooperate with said pointer to indicate the extent of loading of the vehicle in proportion to the extent of flattening of said spring.

1,343,557. ORDNANCE DEVICE. WILLIAM B. D. GAY, Brookline, Mass. Filed Oct. 8, 1917. Serial No. 195,257. 3 Claims. (Cl. 102—29.)



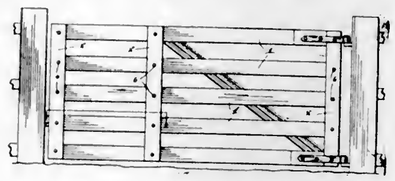
2. An ordnance device comprising a plurality of spaced bombs, a tube joining the bombs together and means including a rod reciprocatably mounted in the tube for exploding the bombs simultaneously.

1,343,558. CORN-THINNER. MARY ISHAM GOLDSMITH, The Plains, Va. Filed Jan. 10, 1918. Serial No. 211,262. 3 Claims. (Cl. 55—66.)



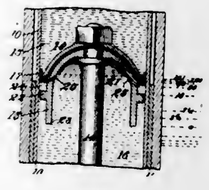
2. A corn thinner comprising a guide-blade, a fork having a plurality of tines of differential lengths, and a receiving plate beneath said fork, and supporting means therefor comprising a vehicle embodying an axle and traction wheels, substantially as shown and described.

1,343,559. FARM-GATE. GEORGE W. GOSS and CHARLES E. GOSS, Baltimore, Ohio. Filed Feb. 18, 1918. Serial No. 217,768. 2 Claims. (Cl. 256—73.)



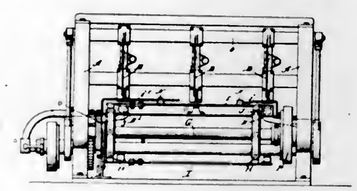
1. In a gate, a plurality of longitudinally extending bar members having bolt receiving openings formed therein, picket members extending transversely of said bars, one set of said members being provided with a plurality of spaced grooves in the faces which contact with the faces of the other set of members, and bolts passing through said sets of members to hold them together and through the spaces between the spaced grooves to completely incase them.

1,343,560. AIR-SPRING. LUCIEN R. GRUSS, San Francisco, Calif., assignor to Pneumatic Cushion Company, San Francisco, Calif., a Corporation of Arizona. Filed Apr. 23, 1917. Serial No. 163,831. 7 Claims. (Cl. 267—64.)



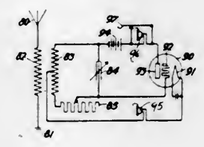
1. An air spring having relatively moving members forming a main compression chamber to support the load, and means for establishing a sealed auxiliary compression when the members approach their limit of compressive movement whereby to assist the main chamber in supporting excessive loads.

1,343,561. WIRE-BOUND-BOX-BLANK MACHINE. WILLIAM P. HEALY, Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed May 9, 1910. Serial No. 560,307. Renewed Jan. 11, 1919. Serial No. 270,756. 28 Claims. (Cl. 1—15.)



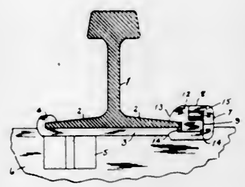
2. In a box blank machine, a set of stationary staplers, means for supplying binding wires to the staplers, guides for cleats to slide in, loose blocks for spacing the ends of the cleats apart, an endless carrier, pushers on said carrier, coöperating with said blocks and staplers to produce a flexible blank as the immediate result of the general stapling operation, each pusher adapted to propel the entire blank by engaging only the rear end thereof, to crowd the cleats and blocks tightly together, the machine being adapted to hold the cleats of a single blank end to end and in assembled relation, a feed mechanism for intermittently propelling said carrier, the arrangement being such that each pusher engages the blank ahead until after both have passed out from under said staplers, means for operating the staplers to secure the binding wires and veneer to the cleats, whereby the immediate result of said stapling operation is a foldable blank, and a mechanism for operating said carrier to move the blank faster than said feed mechanism, each blank being moved entirely by power applied intermittently at the rear end thereof during the stapling operation.

1,343,562. CONTROL MEANS FOR VACUUM-TUBE CIRCUITS. RAYMOND A. HEISING, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Sept. 1, 1915. Serial No. 51,761. 18 Claims. (Cl. 250—8.)



1. A generator of high-frequency oscillations comprising a vacuum tube of the audion type, a single tuned circuit conductively connected to said tube and primarily determining the frequency of the oscillations generated, a feedback connection from the output to the input circuit of said tube, and means included in said tuned circuit for bringing the system into the slightly oscillatory or the non-oscillatory condition.

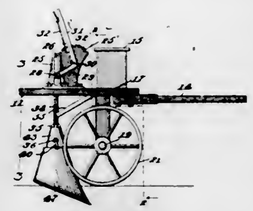
1,343,563. ANTICREEPER. IRA T. HOWARD, Nappanee, Ind. Filed Nov. 5, 1918. Serial No. 261,185. Renewed Sept. 11, 1919. Serial No. 323,128. 9 Claims. (Cl. 238—324.)



1. In an anti-creeper, the combination of a yoke member adapted to extend around a rail base, wedging means comprising a rigid member and a separate piece detent member, the latter being suspended at one end thereof and extending longitudinally of the rigid member: and a complementary serrated connection between said detent and said rigid member.

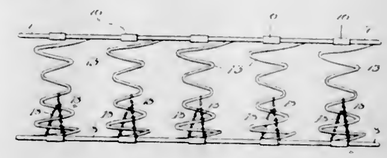
1,343,564. AGRICULTURAL IMPLEMENT. NICK HOYNACK, Caledonia, Ontario, Canada. Filed Mar. 4, 1919. Serial No. 280,523. 11 Claims. (Cl. 97—26.)

1. A plow share of the character described, comprising a handle, extension plates slidably engaging said handle at opposite sides thereof, movable shovel elements against the inner walls of which said handle elements bear with their lower ends, means for normally holding said shovel



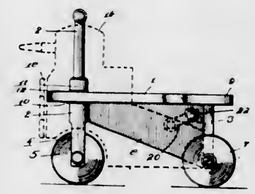
elements closed and means for separating said shovel elements.

1,343,565. SPRING STRUCTURE. OZELLO R. HUNT, Chicago, Ill., assignor, by direct and mesne assignments, to Cushion Spring Engineering Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 3, 1918. Serial No. 243,098. 4 Claims. (Cl. 5—29.)



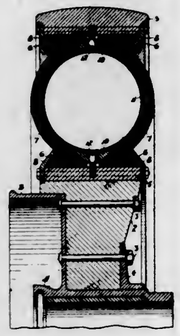
1. In a spring-structure, the combination of a group of spiral springs, and means, individual to each spring and engaging the latter intermediate the ends of said springs operating to maintain the lower portions of said springs under compression relative to the upper portions thereof, in the normal condition of the structure and presenting in the spring structure a zone at the upper portions of the springs in which a relatively soft spring action is afforded and a zone at the lower portions of said springs in which a relatively stiffer spring action is afforded, the normally compressed portions of said springs being operative independently of each other.

1,343,566. CHILD'S VEHICLE. ERIC ISCHINGER, Rochester, N. Y., assignor to Ernst R. Saalmann, Rochester, N. Y. Filed June 26, 1919. Serial No. 306,842. 7 Claims. (Cl. 208—165.)



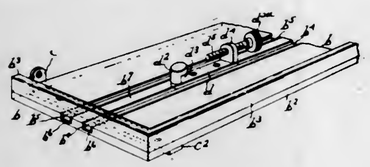
1. In a child's vehicle, the combination of a skeleton frame, wheels supporting said frame, a pair of vertical body members supported on said frame to partially cover and conceal both sides of said skeleton frame, means to fasten said body members together near one end thereof, and means to lock the other ends of said body members to said skeleton frame.

1,343,567. VEHICLE-WHEEL. ALEXIS JAKOVLEFF, San Francisco, Calif., assignor to Jak Tire Corporation, San Francisco, Calif., a Corporation of California. Filed Jan. 24, 1918. Serial No. 213,458. 1 Claim. (Cl. 152—33.)



In a vehicle wheel, a central annular support, a relatively thick inner rim mounted over the support and having radial screw holes and axial bolt holes spaced from the screw holes, a casing divided circumferentially into two complementary sections having inner and outer flanges, the inner flanges seating on the inner rim, a tread rim having radial screw holes and axial bolt holes spaced from the screw holes, retaining rings on each side of each rim for clamping the corresponding casing flanges to the rims, screws passed through the respective screw holes and engaged with the rings for securing the latter in place, clamps at each side of each rim engaged with the respective casing flanges and bolts extending through the bolt holes and engaged with the clamps to hold the latter in place, the radial screws having their threaded ends terminating interiorly of the respective rims and the clamps of the inner rim extending across the joint between the inner rim and support and engaged with opposite side faces of the latter, the inner rim carrying all of the enumerated parts excepting the support.

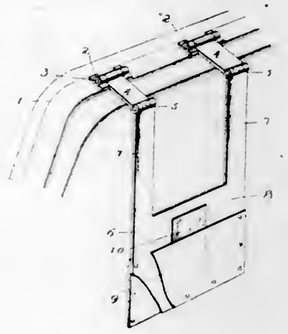
1,343,568. FLOWER-POT SUPPORT. FRANK LEITCH, Detroit, Mich. Filed Oct. 17, 1919. Serial No. 331,294. 4 Claims. (Cl. 248—30.)



1. The combination of a lug adapted to pass through the aperture at the bottom of a flower pot and having an undercut portion adapted to receive the edge of the flower pot around said aperture, of an adjustable securing means adapted to engage the outside of the pot and hold it in engagement in the undercut portion of said lug.

1,343,569. REVERSIBLE RAILROAD-TICKET HOLDER. WILLIAM LEVY, Paterson, N. J. Filed Feb. 24, 1920. Serial No. 360,801. 5 Claims. (Cl. 40—5.)

5. A device of the character described including means for holding a ticket, connecting means extending from the ticket holding means to the upper edge of a seat-back, said connecting means being such that the ticket holding



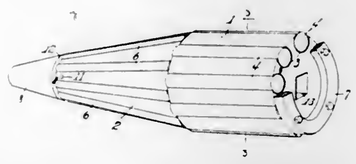
means may lie in a substantially vertical plane on either side of the seat-back.

1,343,570. TOOTHBRUSH. ROBERT H. LIEBERTHAL, Bridgeport, Conn. Filed Oct. 20, 1919. Serial No. 331,844. 8 Claims. (Cl. 15—52.)



1. In combination with a tooth brush having a bristle head of a holding member slidably mounted on the brush for movement in the general direction of the length of the brush toward and from the bristle head, said member being adapted to removably carry a dentrifice container with its discharge opening so positioned that when the member is moved toward the bristle head, the dentrifice may be discharged from the container directly on to the face of the bristles.

1,343,571. PIPE-BLISTER-REMOVING DEVICE. WILLIAM LUDWIG, Bellaire, Ohio. Filed Apr. 2, 1919. Serial No. 286,990. 8 Claims. (Cl. 153—81.)

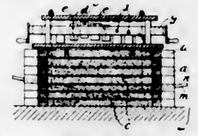


4. In a device of the character described, the combination of a body having a straight portion and a conical end, longitudinally extending circular seats formed in said stright and conical portions, smooth-faced rollers engaging said seats, and means for holding said rollers in position.

1,343,572. CONCRETE-MOLD. FRANCIS GASCOIGNE LYNDE, Belvenere, England. Filed Oct. 31, 1919. Serial No. 334,760. 5 Claims. (Cl. 25—121.)

1. Apparatus for making concrete slabs comprising molds adapted to be placed one on top of another, division

plates adapted to lie in each mold, means for tamping the concrete placed in the mold after each division plate has been located and before another mold is superposed, said molds having removable sides so that the molds can be



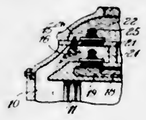
taken to pieces after the slabs have been formed so as to leave a stack of slabs which can be allowed to mature without any disturbance of the concrete until it has become properly set.

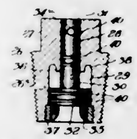
1,343,573. ELECTRIC-LAMP HOLDER. VICTORINO MARTINEZ, Habana, Cuba. Filed June 4, 1917. Serial No. 172,775. 2 Claims. (Cl. 173—355.)



1. A light socket including a casing having oppositely arranged openings, an insulating plug in the casing having spaced transverse openings extending to the openings in the casing, contact points extending into the openings of the plug, buttons arranged for sliding movement in the openings in the casing, a conductor rod connecting said buttons and arranged in one of the openings in the plug and for engagement with one of the contact points, and a shorter rod attached to one of the buttons and arranged in the other opening in the plug and for engagement and disengagement with the other contact point, said rods being electrically connected together.

1,343,574. AUTOMATIC PUMP-PRIMING DEVICE. RAYMOND MILLER, Rochester, N. Y. Filed July 5, 1919. Serial No. 308,816. 10 Claims. (Cl. 103—76.)



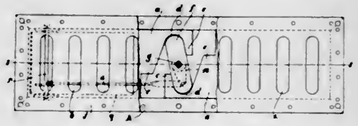


1. The combination with a pump, of an automatic priming device communicating with the pump chamber and the pump discharge outlet and having a movable part operating to establish communication between said chamber and outlet during the discharge stroke of the pump, and to close communication between said chamber and outlet during the intake stroke of the pump.

1,343,575. MANUFACTURE OF PHENOLIC CONDENSATION PRODUCTS. CLARENCE A. NASH, Milwaukee, Wis. Filed Mar. 10, 1919. Serial No. 281,642. 8 Claims. (Cl. 18—55.)

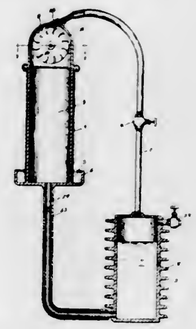
1. The process of producing a molded phenolic condensation product article, which comprises: initially mixing together a fibrous filler and a relatively small quantity of a slowly-volatile solvent for a fusible phenolic condensation product; mixing together the filler thus impregnated and a binder comprising a substantially anhydrous phenolic condensation product corresponding with the reaction between a phenolic body and a methylene body in proportions affording at least two phenolic groups to each methylene group and a non-volatile methylene body in sufficient quantity to give to the molding mixture approximately one phenolic group to each methylene group; subjecting the molding compound to a quick-molding operation to form a body; and subjecting the molded article, after removal from the mold, to prolonged heat treatment until a hard and substantially infusible body results.

1,343,576. VALVE AND DEFLECTOR OF VENTILATING APPARATUS. THOMAS NEILSON, London, England. Filed Jan. 17, 1920. Serial No. 352,222. 3 Claims. (Cl. 98—27.)



3. A ventilating valve of the hit and miss type having a deflector pivoted thereto, a divided movable plate within the said valve, said plate consisting of two similar plane parts having hooked recesses at the adjacent extremities, and slots adapted to be brought into register with similar openings in the fixed portion of the valve, a solid link member connecting said hook shaped recesses, pivoted between them and centrally of said ventilating valve, the pivotal axis of said solid link member having an extremity protruding into a cup member disposed on one side of the ventilating valve, the other extremity of said pivotal axis protruding on the deflector side of the said ventilating valve and formed with an arm, said arm being connected to said deflector by a link member, so that on rotation of the said pivotal axis the rigid link is turned to effect a separating or meeting movement of said plane parts and the required registration of the slots therein with the slots in the fixed portion, and a corresponding and simultaneous movement of the deflector.

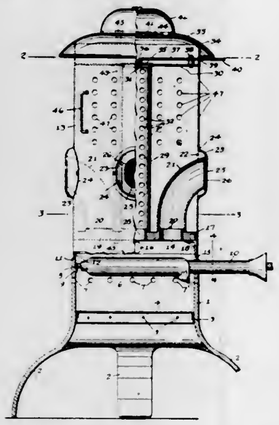
1,343,577. HEAT-ENGINE. PERRY OKEY, Columbus, Ohio. Filed Mar. 28, 1918. Serial No. 225,317. 2 Claims. (Cl. 60—26.)



1. A heat engine comprising an inclosed cycle of parts in which a working fluid is confined, said fluid being convertible from a liquid into a vapor at atmospheric temperatures, said cycle including a condenser, a boiler positioned below said condenser, a conduit of relatively small di-

ameter connecting the lower ends of said condenser and boiler, a second connection between the upper portions of said condenser and boiler, and a work producing element situated within said second connection, the pressure of the working fluid in said boiler being greater than that in the condenser whereby the level of the fluid in said boiler will be appreciably lower than that in the conduit, thus permitting a positive gravitational flow of the fluid from said condenser and into said boiler.

1,343,578. PORTABLE HEATING-STOVE. MAXIMILIAN J. OTTO, New York, N. Y. Filed Nov. 21, 1918. Serial No. 263,446. 5 Claims. (Cl. 126—90.)



1. A stove comprising a base, a burner supported therein, and a cylindrical heating member detachably supported upon the base, said heating member having a heat absorbing and radiating plate fixed thereto near its bottom in coöperative relation to the burner, and a plurality of heat conveying tubes extending from said plate to its cylindrical wall.

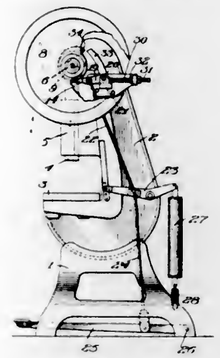
1,343,579. PRESERVING-CONTAINER. WALTER W. PALMER, Montclair, N. J., assignor of one-half to Walter R. McCoy, New York, N. Y. Filed July 3, 1918. Serial No. 243,179. 12 Claims. (Cl. 167—3.)



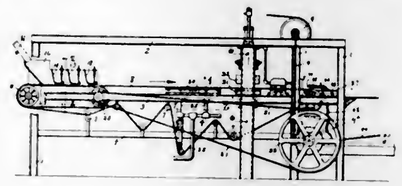
3. A preserving container for decomposable products made from a pyroxylin composition and having on its interior a thin, dry deposit of a soluble preservative.

1,343,580. CONTROLLING DEVICE FOR PUNCH-PRESSES. WILLIAM J. PARKINSON, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 15, 1917. Serial No. 196,559. 5 Claims. (Cl. 74—46.)

1. In a punch press, the combination with a rotary shaft, of a driving wheel therefor, a clutch member rotatable with the shaft and having a normal tendency to operatively connect the driving wheel and shaft, a stop-arm mounted transversely to the shaft on a yieldable pivot, and normally engaged by the clutch member to release the same, a safety arm also arranged transversely to the shaft rigidly connected to the stop arm and normally in inoperative position, a device rotatable with the shaft and positively actuating said safety arm and connected stop arm at each revolution of the shaft to move said stop arm into engagement with the clutch member, and cause said safety arm to be released from positive actuation after the stop arm has engaged the clutch member.



1,343,581. COMPOSITE TAPERED SHINGLE-MACHINE. ROY ALFRED PLUMB, Detroit, Mich., assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Original application filed Apr. 28, 1919, Serial No. 293,294. Divided and this application filed Aug. 12, 1919. Serial No. 316,950. 5 Claims. (Cl. 25—42.)

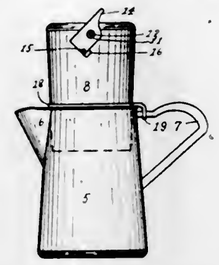


1. A shingle manufacturing machine comprising a movable belt, a hopper for delivering a mixture of wet cementitious and fibrous material to the upper surface of said belt, a gage inclined transversely to the upper surface of the belt for shaping the material into a sheet considerably thicker at one side than at the other, means for removing excess water from the sheet by applying a partial vacuum to the lower surface of the latter, and a press having platens inclined to each other by an amount equal to the included angle of the desired shingle between which the sheet is pressed for consolidating the material and extruding additional water.

1,343,582. COFFEE-POT. FRANCIS J. RABBETH, Redlands, Calif. Filed July 7, 1919. Serial No. 309,073. 2 Claims. (Cl. 53—3.)

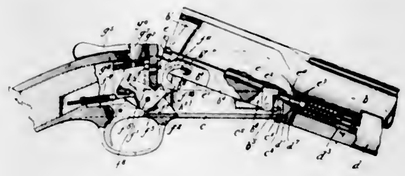
1. A drip coffee pot comprising a drip chamber having a closed bottom; a valve casing in the side wall of said chamber near the bottom, said casing having a port in the inner end thereof; a valve in said casing adapted to open or close said port on the rotation thereof; a lever to operate said valve, said lever being so connected that

when the closed bottom of said chamber is resting on a table the lever causes the valve to close said port; a drip



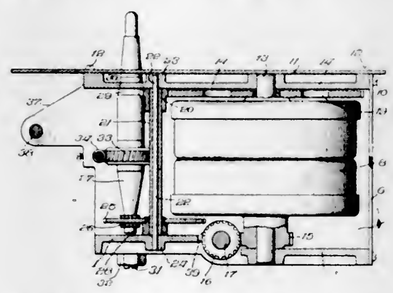
cloth on the open end of the drip chamber, a ring to hold said cloth positioned; in combination with a service chamber, said chamber having a spout and a handle.

1,343,583. FIREARM. EDWARD E. REDFIELD, Glendale, Oreg. Filed Oct. 4, 1919. Serial No. 328,461. 7 Claims. (Cl. 42—41.)



1. In a firearm, the combination of a frame having at its forward end a cylindrical bearing surface and having side flanges with a rearwardly facing bearing surface formed about the same center as the forwardly bearing surface, and a barrel provided with a seat to conform to the forwardly facing bearing surface and a curved shoulder conforming to and coöperating with the curved bearing surface of the corresponding side flange of the frame.

1,343,584. PHONOGRAPH-MOTOR. ARTHUR ROEMER, Chicago, Ill., assignor to Roemer Manufacturing Company, a Corporation of Illinois. Filed May 19, 1919. Serial No. 298,075. 17 Claims. (Cl. 185—37.)

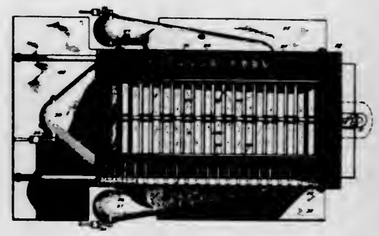


17. In a phonograph motor, the combination of a one-piece cast body frame having top and bottom walls and side walls, a spring barrel and means whereby the barrel is insertible into and removable from said body frame, a solid one-piece turntable post and means whereby the post is insertible into and removable from said body frame, and a counter-shaft intermediate the spring barrel and turn-table post and means including a vertical axis member whereby the shaft is held in place and is insertible into and removable from said body frame.

1,343,585. PURIFICATION OF BATTERY MATERIALS. OTTO E. RUHOFF, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Mar. 1, 1917. Serial No. 151,716. 2 Claims. (Cl. 252.)

1. The method of removing harmful impurities from a manganese oxid ore to prepare the same for use in a dry cell battery mix, consisting of applying to such ore a dilute solution of sulfuric acid, thoroughly mixing said ingredients, and then removing the resulting liquid.

1,343,586. POTATO-PICKER. CHARLEY SANG, Castroville, Calif. Filed Oct. 7, 1919. Serial No. 329,151. 4 Claims. (Cl. 130—32.)

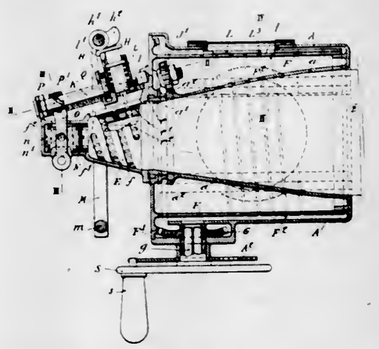


1. A potato cleaner and classifier comprising a single endless traveling carrier belt having longitudinal partitions dividing it into a central and two side compartments, transverse rectangular slats in the central compartment upon which the potatoes and excavated dirt are received and through which the dirt escapes, transverse cylindrical slats in the side compartments through which the smaller potatoes may fall, chutes below each side compartment to receive and direct said small potatoes, and independent receivers therefor, other chutes connecting with the ends of the side carriers, into which the larger potatoes fall, said chutes converging therefrom to a common receiver.

1,343,587. DEALCOHOLIZED FERMENTED BEVERAGE. JOSEPH SCHNEIBLE, Chicago, Ill. Filed July 7, 1919. Serial No. 309,051. 6 Claims. (Cl. 195—1.)

1. As a new article of manufacture, a beverage comprising the dealcoholized residue of alcoholic liquid containing the products of dephlegmation thereof including the higher boiling-point products of fermentation.

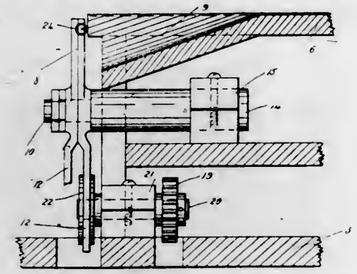
1,343,588. APPARATUS FOR SETTING TIME-FUSES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed June 16, 1919. Serial No. 304,657. 5 Claims. (Cl. 86—23.)



1. Apparatus for setting helix wound projectile fuses, comprising a casing adapted to be mounted on the gun

carriage and to receive the ogival nose of a projectile, said casing having a fuse setting socket revolubly mounted thereon and in axial alinement therewith, means revoluble with said socket for indicating fuse setting distances, a manually operated fuse punch carried by said socket and means operated by the rotation of said socket for registering the punch over the fuse as the socket rotates.

1,343,589. TOPPING AND STRIPPING MACHINE. HENRY OSBERT SCRANTON, Jeanerette, La. Filed June 25, 1919. Serial No. 306,600. 6 Claims. (Cl. 146—7.)



1. The combination, with a table having a substantially flat top over which the canes are slid longitudinally and rearwardly, said top being provided with a longitudinal open guide channel having an unobstructed open end at the rear edge of the table top and adapted to have the canes sprung downwardly into it, of a topping device for severing the canes arranged in line with the lower rear end of the said channel.

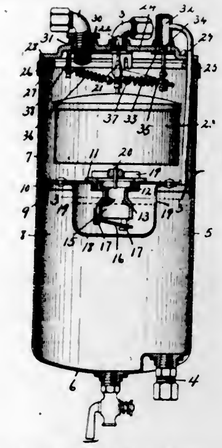
1,343,590. FILM-PACK. LLOYD E. SNYDER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 23, 1919. Serial No. 272,759. 11 Claims. (Cl. 95—22.)



1. In a film pack, the combination with a holder having an exposure aperture therein, of a film case open at its inner end and slidable endwise therein, said film case being adapted to contain a plurality of film sheets, and means carried by the case for sliding a film from the latter into the holder when the case is withdrawn therefrom.

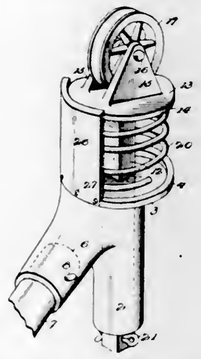
1,343,591. VACUUM-TANK. WILLIAM SPARKS, Jackson, Mich. Filed Feb. 18, 1919. Serial No. 277,794. 3 Claims. (Cl. 158—36.)

1. In a device of the class described, an upper chamber having an air exhaust, an air inlet and a fuel inlet, a second chamber, having a fuel discharge, a partition wall separating said chambers, a nipple depending from said partition wall and forming a means of communication between said chambers, a valve controlling the discharge of fuel from said nipple into said second chamber, and a



cup-like member surrounding said nozzle and secured at its open end to said partition wall, and having a discharge for fuel located above said valve.

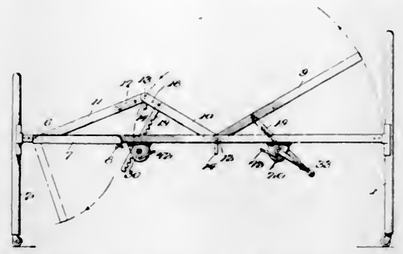
1,343,592. TROLLEY. HENRY J. SPODEN and JAMES B. WELSH, St. Cloud, Minn. Filed June 30, 1919. Serial No. 307,502. 2 Claims. (Cl. 191—59.)



1. A trolley including a head having an oblique pole receiving socket and a vertical barrel formed integral therewith and provided with a squared bore, a plate arranged in spaced relation to said head and having a centrally arranged boss on its inner side, a squared plunger secured to said boss and slidable within said barrel, a coil spring surrounding said plunger and confined between said plate and said head, said plate and said head being provided with inwardly extending annular flanges for securing said coil spring in position, a pair of spaced apertured ears carried by said plate, and a wheel rotatably carried by said apertured ears.

1,343,593. ADJUSTABLE BED. JOHN R. STARK, Nashville, Tenn., assignor to Owens-Stark Manufacturing Company, Nashville, Tenn. Filed June 14, 1919. Serial No. 304,320. 2 Claims. (Cl. 5—12.)

1. In an adjustable bed, the combination of a supporting frame having parts of its side bars cut-away, track members pivotally attached to said side bars at their rear ends and provided at their front ends with means for detachably and directly engaging the side bars and locking the track members in position to fill the cut-away portions of said side bars, a seat section pivotally attached to the frame, and a foot section pivotally connected with



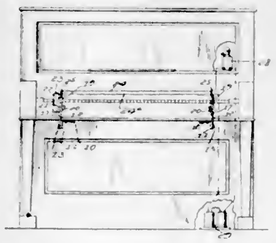
the seat section and having one end free and arranged to ride upon the side bars of the frame and the said track members.

1,343,594. CAR-SEAT. RAYMOND F. STUBBLEBINE, Philadelphia, Pa., assignor to Hale & Kilburn Corporation, Philadelphia, Pa., a Corporation of Delaware. Original application filed May 20, 1916, Serial No. 98,714. Divided and this application filed Aug. 1, 1917. Serial No. 183,869. 1 Claim. (Cl. 155—2.)



A seat-cushion for a car-seat having a frame comprising a front rail having its front surface convexly curved, a rear rail of less height than the front rail, end rails and a center rail parallel thereto having their upper surfaces curved from the front to the rear rail, with the lowest point of the curve between the middle and rear thereof, a sheet placed on said frame members and shaped to conform thereto, and upholstery secured over said sheet and frame members, substantially as set forth.

1,343,595. INCORRECT-POSITION INDICATOR FOR PIANOS. LOUIS L. TIFFANY, Roslindale, Mass., assignor of one-half to Timothy McGoldrick, Lincoln, N. H. Filed Feb. 21, 1920. Serial No. 360,366. 9 Claims. (Cl. 84—48.)



4. A signaling device of the character described for pianos comprising brackets adapted to be attached to the under side of the keyboard of a piano and having knuckles, angular arms loosely pivoted to the knuckles, springs forcing the arms against the knuckles, each arm and corresponding knuckle having, one a plurality of recesses and the other a resilient pawl adapted to engage in said recesses to latch the arms in their raised or lowered positions, coiled contractile springs of conductive material carried by the said arms and extending transversely across the plane slightly above the keys thereof, and an electrically actuated signal connected in a circuit with a source of energy and said springs, whereby when said springs are forced into engagement with each other a circuit will be completed through the signal.

1,343,596. HOG-HOLDING DEVICE. HARRY M. TROUT, Hamilton, Ohio. Filed Feb. 10, 1920. Serial No. 357,530. 1 Claim. (Cl. 119—153.)

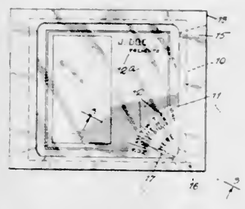


A device of the character specified; comprising a rod having eyes formed in the ends thereof, a wire cable having one end secured to one of said eyes; a ring linked to said eye and through which the cable is passed to form a loop, a keeper secured to said rod and through which said cable passes along said rod and through the eye in the end of said rod opposite the eye to which the end of the cable is attached, and a hand grip fastened to the free end of said cable, substantially as described.

1,343,597. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Nov. 15, 1915, Serial No. 61,589. Renewed Nov. 5, 1919. Serial No. 335,947. 6 Claims. (Cl. 171—314.)

1. In a system of electrical distribution, a source of E. M. F. provided with armature windings and a field winding, an extraneous source of substantially constant E. M. F. connected through said field winding across a portion of said armature windings to oppose the E. M. F. produced in said portion, and means for connecting said extraneous source across the whole of said armature windings for regulating the output of said armature windings.

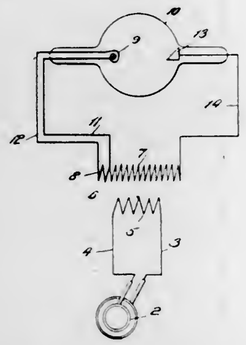
1,343,598. SLIDE. JOHN UNSWORTH, New York, N. Y. Filed Jan. 22, 1919. Serial No. 272,518. 1 Claim. (Cl. 88—26.)



A lantern slide comprising a substantially rectangular transparent announcement plate having a corner dial in

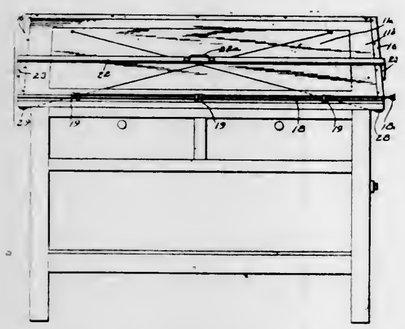
the form of a quadrant on one face thereof, a frame for said plate, said frame including an inclosed flat rectangular mat member fitting snugly the perimeter of the transparent plate, and a pointer having one end pivoted to a corner of the mat member adjacent to and concentric with said dial, the other end of the pointer being free and disposed toward the dial.

1,343,599. X-RAY SYSTEM. HARRY F. WAITE, New York, N. Y. Filed Oct. 6, 1917. Serial No. 195,013. 1 Claim. (Cl. 250—34.)



An X-ray system composed of an X-ray tube with a hot cathode and an anode, a transformer unit with a single primary and a secondary composed of two sections, one having a few turns of coarse wire suitable for the cathode heating current, and the other having many turns of fine wire suitable for the X-ray generating current, three wires connecting the X-ray tube and the secondary, two of which connect the coarse wire with the hot cathode and one of which connects the fine wire with the anode, and means for supplying the primary with a suitable electric current.

1,343,600. PRINTER'S TABLE. ELBERT L. WEST, Somerville, and JAMES WEST, Boston, Mass., assignors to Premier Register Table Company, Boston, Mass., a Corporation of Massachusetts. Filed May 16, 1919. Serial No. 297,542. 6 Claims. (Cl. 33—80.)



1. A printer's table equipped with a transparent top and with means for projecting light upward therethrough, said top having an alining edge at one side thereof with sheet clamping means arranged to clamp a sheet alined by said edge, and an alining bar mounted for movement transversely across the table toward and from said alining edge.

1,343,601. CALENDAR. WILLIAM W. WHITE, New York, N. Y. Filed July 31, 1918. Serial No. 247,528. 4 Claims. (Cl. 40—107.)



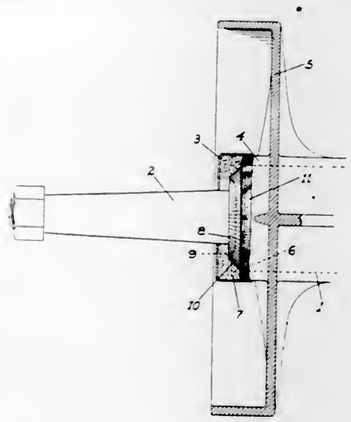
1. A calendar comprising a board having parallel grooves along its face and reversible indicating tabs having hinged tongues fitted to be inserted in said grooves.

1,343,602. HEEL ATTACHMENT FOR SHOES. HENRY A. WILLIAMS, Kinston, N. C. Filed Mar. 27, 1919. Serial No. 285,546. 4 Claims. (Cl. 36—41.)



1. A toe heel comprising a removable body portion and a removable heel plate attached to the body portion, and a heel hingedly mounted on the body portion and means to releasably hold the heel plate in engagement with the body portion.

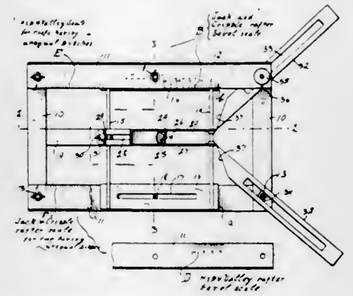
1,343,603. GREASE-RETAINER FOR AXLES OF MOTOR-VEHICLES. JOHN H. WILLIAMS, Stockton, Calif. Filed Apr. 18, 1919. Serial No. 290,907. 2 Claims. (Cl. 286—7.)



1. In combination with an axle housing having an axle therein, and a steel washer on the axle adjacent the end of the housing, an adjustable cap over the end of the housing, a bronze washer on the axle adjacent the steel

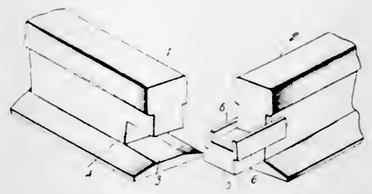
washer between the same and the cap; the outer face of the washer being wedge shaped, and absorbent and flexible packing material in the cap and filling the entire area inclosed thereby.

1,343,604. RULE FOR CUTTING ROOF-RAFTERS. WARNER A. WINN, Clarksville, Tenn. Filed June 14, 1919. Serial No. 304,175. 11 Claims. (Cl. 33—90.)



2. An instrument of the character described comprising a rectangular frame having side members and end members and adapted to be disposed against the edge face of a rafter, a square having two legs disposed at an angle to each other and pivotally mounted in said frame, the pivotal axis of the legs being disposed in the plane of the frame and extending through the square at the intersection of the legs, an arcuate member connecting said legs, and a cross bar on the frame over which said arcuate member passes and having means whereby the arcuate member may be clamped and the square held at any desired angular relation to the main frame.

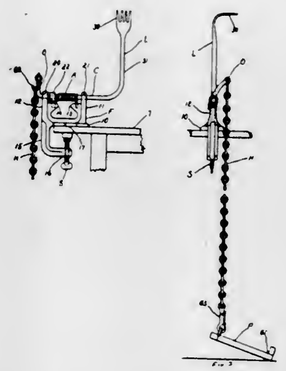
1,343,605. RAIL-JOINT. CLARK J. WINSLOW, Correll, Minn. Filed Oct. 5, 1917. Serial No. 194,891. 1 Claim. (Cl. 238—231.)



A rail joint comprising adjoining rail ends having thickened and upwardly tapered webs, the web of one rail end having its lower portion extended to provide a tongue extending longitudinally from the rail end and the web of the second rail end being cut out to provide a longitudinally extending pocket to receive the tongue, and side strips extending longitudinally of the tongue and extending above the upper face thereof and in overlapping relation to the tongue and web and adapted to engage the side faces of the web of the second rail end to hold the tongue in the pocket with the rail ends in alinement.

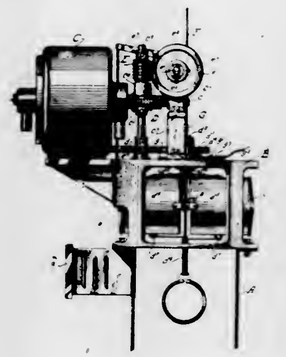
1,343,606. HOLDING DEVICE FOR ONE-ARMED PERSONS. CHARLES YOUNG, York, Me. Filed Sept. 20, 1918. Serial No. 254,913. 4 Claims. (Cl. 65—15.)

1. In a holding device for one-armed persons, the combination with a frame comprising a base, vertical standards each formed with a projection and an arm which extends downwardly and inwardly, of a set screw which passes through such arm whereby the frame may be detachably attached to an article of furniture, bearings in the standards, a carrying rod revoluble in such bearings, a nose fixed to the carrying rod in position to engage one of the standard projections, a returning spring wound around the carrying rod attached at one end to the nose and at the



other end to the projection on the other standard, a utensil detachably carried at one end of the carrying rod, an operating arm fixed at the other end thereof, a pedal, and an adjustable chain between the pedal and the operating arm.

1,343,607. ELECTRIC-ARC-WELDING MACHINE. JAMES L. ADAMS, Jr., and HORACE H. WELCH, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Nov. 10, 1919. Serial No. 336,936. 11 Claims. (Cl. 219—15.)

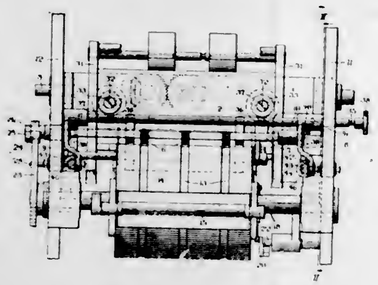


1. In an electric welding machine, devices for feeding a fusible electrode, in combination with means for applying a covering to such electrode as the latter is fed to the work to be welded, and connections supplying electric current to the electrode during such feeding and covering operations.

1,343,608. SHEET-HANDLING MACHINE. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 4, 1918. Serial No. 210,342. 8 Claims. (Cl. 271—53.)

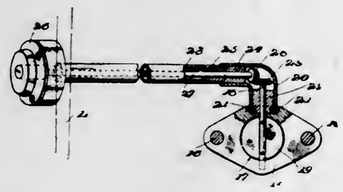
2. A rotary carrier provided with grippers, means for operating the grippers, a table, a sheet stop, its rocking

support, a movable carrier for said support, means for rocking said support to raise and lower the sheet stop,



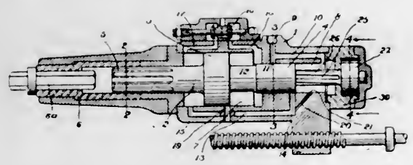
and means for adjusting the carrier to move the sheet stop with respect to the taking point of the grippers while the carrier is rotating.

1,343,609. LOCKING DEVICE FOR MOTOR-VEHICLES. MILLARD EARL BASSETT, Pontiac, Mich. Filed June 6, 1919. Serial No. 302,308. 2 Claims. (Cl. 251—6.)



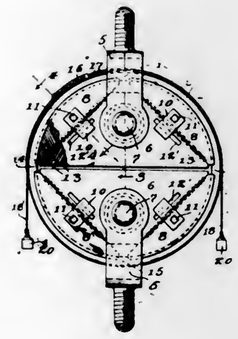
1. A device of the class described including a valve body having a valve and a stem connected to the valve and extending out through one side of the body, said body having a socket in one side and surrounding said stem, a tubular member having one end portion snugly arranged within said socket, a pair of keys carried by said valve body and securely engaging said end portion the tubular member for non-detachably securing the same within said socket, an operating device arranged wholly within said tubular member, and a lock arranged at one end of said tubular member and connected to said operating device.

1,343,610. FLUID-OPERATED PERCUSSIVE TOOL. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 30, 1919. Serial No. 320,909. 3 Claims. (Cl. 121—18.)



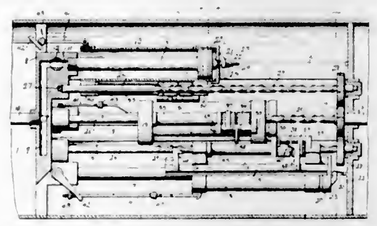
1. In a fluid operated percussive tool, a cylinder having a bore of two diameters, a piston therein having portions fitting both diameters of said cylinder, said piston having a constant pressure area and two variable pressure areas, and means comprising a small port near the rear end of the smaller diametered portion of the cylinder and a larger port about midway of the smaller bore of the cylinder and overrun by the constant pressure area of the piston to admit pressure fluid to force the piston in one direction.

1,343,611. TESTING APPARATUS. GEORGE O. BERGER, Philadelphia, Pa. Filed Sept. 30, 1916. Serial No. 123,092. 16 Claims. (Cl. 265—12.)



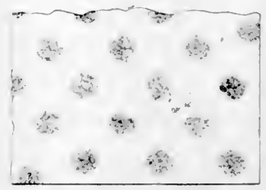
1. In an apparatus of the character described, oppositely disposed wedges, means for retaining said wedges in their opposed positions, a plurality of segments secured to the wedges for engagement with a metal band, and means for delivering stresses to the wedges tending to separate them.

1,343,612. ENGINE. LOUIS A. BORN, Washington, D. C. Filed July 27, 1918. Serial No. 247,027. 4 Claims. (Cl. 121—50.)



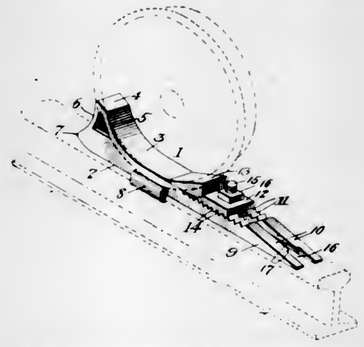
1. In an engine, a plurality of fixed tubular pistons, each having a head, a cylinder coacting with each piston and within which the head fits, inlet valves controlling the inlet of motive fluid through said several pistons, means for alternately opening the inlet valves to thereby cause a longitudinal movement of the cylinder relative to the piston in one direction, means for causing the reverse movement of any one cylinder by the power movement of another cylinder, an exhaust valve for each cylinder and disposed therein and moving therewith, and means for causing the opening of said exhaust valve when the cylinder has reached the limit of its power movement, holding said exhaust valve open during the time the cylinder is moving reversely and closing said exhaust valve when the cylinder has reached the end of its reverse stroke.

1,343,613. RETOUCHING-SCREEN. IWER BOYSEN, New York, N. Y. Filed Apr. 1, 1920. Serial No. 370,564. 3 Claims. (Cl. 95—81.)



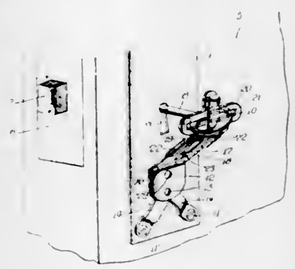
1. A photographic retouching screen comprising a sheet of thin transparent material having upon one face a field of semi-opaque dots arranged in diagonal rows, each dot being substantially square but with the corners rounded off.

1,343,614. CAR-WHEEL SKID-SHOE. BENJAMAN J. BUELL, Reading Pa. Filed Sept. 23, 1919. Serial No. 325,706. 8 Claims. (Cl. 104—260.)



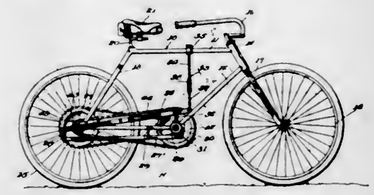
1. In a car wheel skid shoe, a main body portion having on its inner lower edge a rail engaging flange, an integral raised portion at one end and an adjustable member or chock at the other end and coöperating grooves on the chock and main body portion for securing said chock in its adjusted position.

1,343,615. KEY-GUARD. STANLEY CARALUN, Melrose Park, Ill. Filed Feb. 10, 1920. Serial No. 357,650. 5 Claims. (Cl. 70—7.)



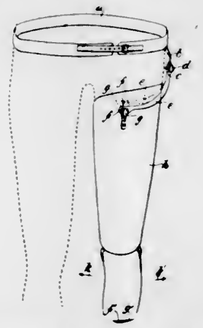
1. A key guard, comprising, in combination, a guard-plate having a slotted head adapted to fit over the handle loop of a key and a depending shank, a locking tongue slidably mounted on said guard-plate and movable across the slot of said head and through said handle loop, an extension-plate slidably connected to said shank, a holding-plate hinged to said extension-plate, and a fastening strip attached to said holding-plate and formed with a hole at its lower end to receive a fastening screw.

1,343,616. BICYCLE. JAMES CREAR, Chicago, Ill. Filed Sept. 30, 1919. Serial No. 327,512. 3 Claims. (Cl. 208—21.)



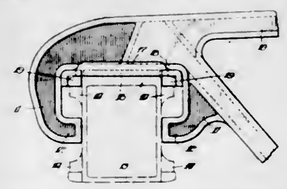
2. A bicycle including a frame, an axle carried by the frame, a drive wheel mounted on the axle, a shaft carried by the frame forwardly of said drive wheel, a sprocket wheel keyed to said shaft, a two-part sprocket wheel rotatably arranged on said axle and operatively connected to said sprocket wheel, a second two-part sprocket wheel mounted on said shaft and operatively connected to said first named two-part sprocket wheel, and means to connect said second named two-part sprocket wheel to said drive wheel.

1,343,617. ARTIFICIAL LEG. LEON CHARLES DESOUTTER, London, England. Filed May 26, 1919. Serial No. 299,947. 3 Claims. (Cl. 3—11.)



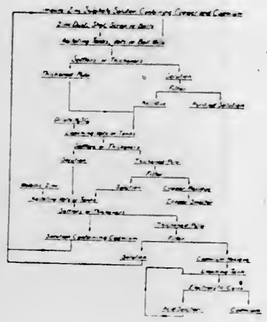
1. In combination an artificial leg having an upper leg section adapted to fit the stump of the thigh, a pelvic band provided with a depending strap, means for suspending the artificial leg from said band comprising a bifurcated member of rigid material pivoted to said strap, the free ends of the arms of said bifurcated member being pivotally connected to the front and back of said upper leg section whereby backward and forward and sidewise movement of the leg is obtained.

1,343,618. SIDE-FRAME ARRANGEMENT. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 31, 1920. Serial No. 370,087. 6 Claims. (Cl. 105—220.)



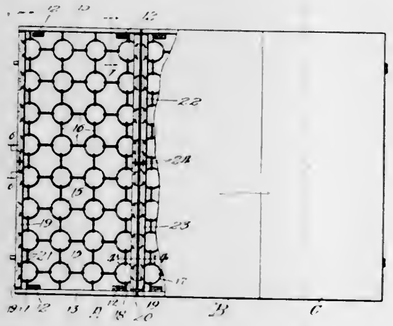
5. In combination, a truck side frame, and a shim associated therewith having lugs for embracing adjacent bolt lugs on Master Car Builders' journal boxes to prevent relative movement between said journal box and shim.

1,343,619. PROCESS OF TREATING RESIDUES CONTAINING ZINC, COPPER, AND CADMIUM. JAMES ORR ELTON, Great Falls, and RUSSEL B. CAPLES, Cascade, Mont., assignors to Anaconda Copper Mining Company, Anaconda, Mont., a Corporation of Montana. Filed Jan. 5, 1920. Serial No. 349,368. 3 Claims. (Cl. 75—18.)



1. Process of treating impure zinc sulfate solutions containing copper and cadmium, comprising precipitating copper and cadmium therefrom by zinc in excess and separating the residue from the purified solution: treating said residue with sulfuric acid proportioned to dissolve substantially all of the zinc and cadmium while leaving the copper substantially undissolved: and precipitating cadmium from the solution by means of zinc.

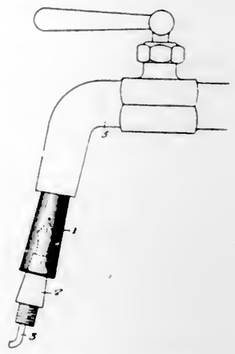
1,343,620. SECTIONAL SPRING. SIMON GAINER, Chicago, Ill. Filed Oct. 27, 1919. Serial No. 333,588. 5 Claims. (Cl. 5—65.)



1. A spring of the character described, comprising a plurality of similar connectible and disconnectible sections, each comprising a frame, coiled compression springs supported thereby, there being a marginal row of springs along each side edge of the section, unconnected, separate cross bars secured to the upper ends of the springs of said marginal rows, and connecting means between the adjacent cross bars of the sections.

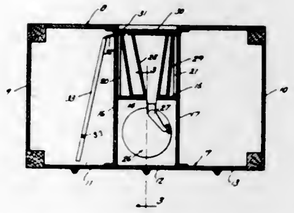
1,343,621. FOUNTAIN-PEN CLEANER. CHARLES W. GARVER, Ashland, Ohio. Filed July 25, 1919. Serial No. 313,255. 1 Claim. (Cl. 120—8.)

A device of the character specified comprising a tubular casing having one end tapering to engage within the faucet of a water supply system, the opposite end of the casing having its bore flaring to receive the pen point carrying portion of a fountain pen, said casing having a portion of its periphery flattened to provide a grip for



facilitating the twisting of the casing into or out of a faucet and said flattened portion being further adapted to bear directions for the use of the device.

1,343,622. PHONOGRAPH TABLE-CABINET. PETER KRAUSHAAR, Montebello, Calif. Filed May 5, 1919. Serial No. 294,687. 1 Claim. (Cl. 274—2.)



In a table having a paneled apron, the combination of a slidable drawer having a panel of said apron forming the outer wall thereof, a phonograph mounted on said drawer, a section of a telescopic horn secured to said drawer, another section of said horn secured to said apron with the mouth thereof registering with a panel opposite to said first mentioned panel.

1,343,623. GRIP FOR BOW-TIES. AUGUST GRASKE, Omaha, Nebr. Filed Jan. 27, 1920. Serial No. 354,411. 6 Claims. (Cl. 2—84.)



1. A bow tie grip of the character described, comprising a pair of clamps adapted to grip the front edges of a collar, said clamps being hinged together at their inner ends.

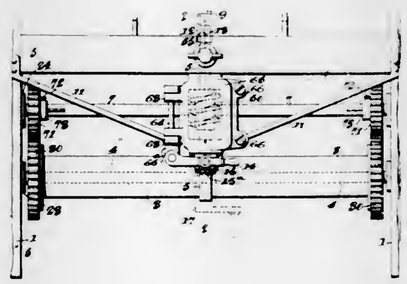
1,343,624. SHOCK-HOLDER. DANIEL A. HAAS, Belleville, Ill. Filed Aug. 28, 1917. Serial No. 188,621. 3 Claims. (Cl. 56—480.)

1. In a shock holder, a bar having a downwardly extending portion at one end, a strap member secured at its ends to said bar and extending rearwardly therefrom adjacent said downwardly extending portion, a plurality of tines secured at their rear ends to said strap member, lock nuts holding said tines rigidly to said member, the down-



wardly extending portion of said bar being provided with spaced apertures to receive said tines, yokes straddling said bar and being engaged with said tines, and a set screw on each yoke engaging said bar.

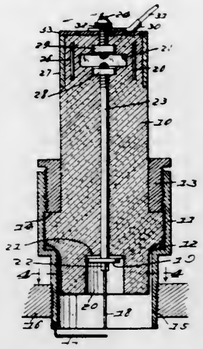
1,343,625. AUTO PULL-OUT. LOUIS HAMMER, Olds, Alberta, Canada. Filed Jan. 29, 1918. Serial No. 214,389. Renewed Apr. 28, 1920. Serial No. 377,420. 5 Claims. (Cl. 254—166.)



1. In a pull out mechanism for motor vehicles, the combination with the chassis frame and the motor driven shaft; of a housing having opposite end bearings in alinement with the engine shaft, a transmission shaft section removably supported on the said end bearings and in alinement with the engine shaft, the said transmission shaft section and the engine shaft having engaging clutch portions, the transmission shaft section having longitudinal movement in the said end bearings of the housing, and a device mounted on the housing and operatively connected to the transmission shaft by means of which device the transmission shaft can be moved into operative connection with the engine shaft and held there.

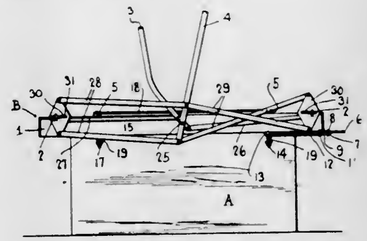
1,343,626. TELLTALE SPARK-PLUG. ISAAC HARRIS, Detroit, Mich. Filed May 21, 1919. Serial No. 298,659. 1 Claim. (Cl. 123—169.)

A spark plug having an insulating body provided at an intermediate point with a transverse terminally open recess, reinforcing elements embedded in the body adjacent to said recess, a transparent sleeve embracing the body in the zone of and closing the extremities of said



recess and a sectional electrode having its members terminally separated to form a spark gap within said recess.

1,343,627. BOX-OPENER. JOSEPH HEILIGENSTEIN, Altamont, Ill. Filed Jan. 22, 1920. Serial No. 353,332. 6 Claims. (Cl. 145—21.)



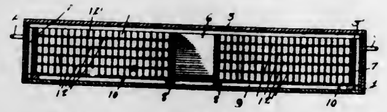
1. In a box lid lifter, horizontal lifting blades, means for sliding the blades under the ends of the box lid and means for tilting the blades upwardly to lift the lid from the box.

1,343,628. FILM-REEL. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 22, 1917. Serial No 197,926. 4 Claims. (Cl. 242—70.)



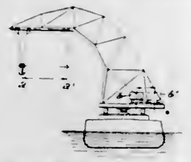
1. The combination with a film reel having a finger opening in one end plate, of a film clamping member mounted to swing inwardly against the reel drum and outwardly into said opening, and means for resisting its further movement when it has reached either limit of its normal path.

1,343,629. EGG-CARRIER. AARON V. LEA, Bisbee, Ariz., assignor of one-half to Joseph Lea, Bisbee, Ariz. Filed Mar. 29, 1917. Serial No. 158,422. 3 Claims. (Cl. 220—21.)



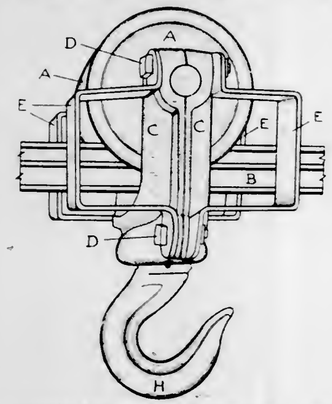
1. An egg carrier comprising a receptacle, a frame consisting of four side walls spaced from the side walls and the top and bottom of the receptacle, an egg compartment in each end of the frame, an ice compartment in the center of the frame and between said egg compartments, said ice compartment having a plurality of horizontal rows of perforations in the side walls thereof, a plurality of egg trays having screen bottoms and a horizontal series of perforations in their walls, the outside end of each tray abutting with the end wall of the frame while the inner end wall of each tray abuts with the side wall of the ice compartment to prevent movement of the trays and to retain the perforations in the inner end walls of the trays in alinement with the perforations in the ice compartment.

1,343,630. MEANS FOR THE AUTOMATIC EQUILIBRIUM OF FLOATING CRANES. VITTORIO LOCARNI, Genoa, Italy, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Filed May 31, 1919. Serial No. 300,883. 2 Claims. (Cl. 212—3.)



2. An electromechanic device for the automatic equilibrium of floating cranes, comprising a moving counterweight, a screw for displacing the said counterweight a motor for driving the screw, a second motor for driving the generator supplying the current to the first motor, a starting and reversing resistance to control the field of the said first motor and of the generator said resistance being controlled by a pivoted arm of contacts forming a whole with a pendulum, the said pendulum keeping the arm in its neutral position when the crane is vertical.

1,343,631. TROLLEY. WALTER A. LOUDEN, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Apr. 5, 1920. Serial No. 371,550. 5 Claims. (Cl. 105—154.)



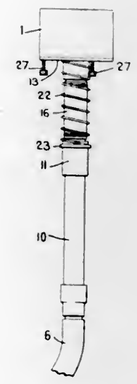
1. The combination of the trolley frame with transversely set bolts in its upper and lower ends and the attachments secured to the frame by the bolts as shown and described.

1,343,632. TOOL FOR ATTACHING PAPER TUBES TO WINDERS. CULLEN L. LYTTON, Gastonia, N. C. Filed Sept. 9, 1919. Serial No. 322,673. 5 Claims. (Cl. 81—3.)



4. In a tool of the class described, a socket and an implement for rotating the socket, said socket having means for gripping the end of a paper cop tube around its outer as well as its inner side, said means consisting of inner and outer members forming an annular chamber tapering inwardly, one of which is fluted to form gripping-members, substantially as set forth.

1,343,633. AUTOMATIC MARKING OR STAMPING DEVICE. SELDEN G. MCPHETERS, Oldtown, Me. Filed Apr. 10, 1920. Serial No. 372,986. 6 Claims. (Cl. 101—327.)

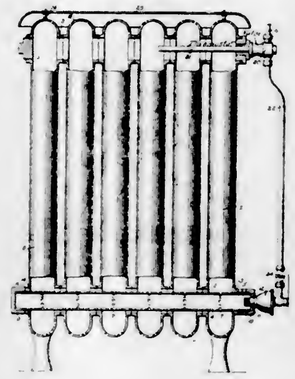


1. In a device of the class described, the combination with a head having a wick-receiving chamber of the shape of the mark to be made, of a wick member in said chamber, a supply pipe flexibly connected to said head and communicating with said chamber, and a valve in said supply pipe which is opened by pressure of the head against the article to be marked.

1,343,634. GAS-RADIATOR. CHARLES CAREY MANKER, Oklahoma, Okla., assignor of one-half to Murray J. Morley, Pittsburgh, Pa. Filed July 20, 1917. Serial No. 181,746. 3 Claims. (Cl. 126—91.)

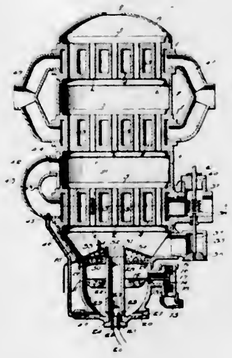
1. A gas heated radiator, comprising a plurality of hollow sections having adjacent their upper and lower ends passageways establishing communications between the sections and each provided with perforations in its top and bottom, the end sections having internally threaded annular flanges at the lower passageway, a burner tube disposed in the lower passageway and having perforations opening into each of the sections, the ends of the tube being screw threaded and screwing into the threaded flanges of the end sections, with the threaded ends projecting beyond the said end sections, caps screwing on

the ends of the tube, one of the caps having an opening in its end, a burner extending through the opening of



the cap into the burner tube, and a plate like member secured to the upper ends of the end sections in spaced relation to the said sections

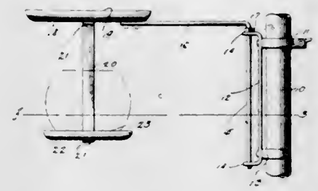
1,343,635. VAPORIZER FOR HEAVY OILS. CHARLES CAREY MANKER, Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated. Filed Mar. 19, 1918. Serial No. 223,307. 11 Claims. (Cl. 123—122.)



3. A vaporizing device for heavy oils comprising a casing, an oil chamber carried by the casing, means for initially heating a portion of the oil to the vaporizing temperature, means for mixing air with said vaporized oil, means for initially igniting the mixture, an atomizer for atomizing a portion of said oil, means for mixing air with the atomized oil, means for heating said last named mixture by the heat of the initially ignited charge, means for regulating the temperature of said heated mixture, said last named means comprising a thermostat disposed in the path of said heated mixture, a valve controlled by the thermostat for admitting cold air directly to said heating means, and means for adjusting the thermostat to operate at a predetermined temperature.

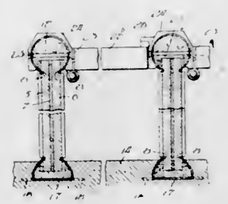
1,343,636. BED-TRAY. WILLIAM B. MASON and LURAL S. RYAN, Lamar, Mo. Filed Oct. 30, 1919. Serial No. 334,405. 1 Claim. (Cl. 45—82.)

A tray attachment for a bed post, comprising a vertical bar having its upper and lower ends turned at an angle to the body and vertically apertured, a clamping ring secured to the upper end of the bar, a ring segment secured to the lower end of the bar, a tray supporting arm having a stem disposed for rotation in the said apertured ends of the bar, a tray secured to the outer end of the



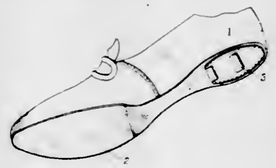
arm, a bar having its upper and lower ends turned angularly from the body, the upper end being secured to the bottom of the tray, and a supplemental tray disposed below the first tray and secured to the other angularly turned end of the second bar.

1,343,637. COMPOSITE BOOTH, COUNTER, AND THE LIKE. GEORGE R. MEYERCORD, Chicago, Ill. Filed Dec. 20, 1916. Serial No. 137,958. 7 Claims. (Cl. 72—46.)



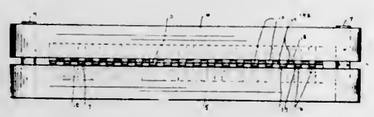
5. In a structure of the character described, a tubular post having a slot extending lengthwise thereof from one end and terminating at some distance from the other end, a panel of vitreous material thicker than the width of said slot having one edge extending into the tube and a reduced neck lying in said slot, and means for closing the open end of the slot and simultaneously clamping the tube upon the panel.

1,343,638. HEEL-ATTACHING MEANS. JOHN ARNOLD MITCHELL, Newark, N. J., assignor of one-half to A. D. T. Libby, East Orange, N. J. Filed Feb. 28, 1918. Serial No. 219,596. 9 Claims. (Cl. 36—42.)



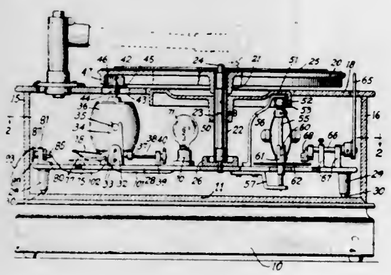
1. In a shoe, the combination of, a sole having a plate fastened to the heel part thereof; said plate having a part intermediate its ends projecting outwardly forming a bridge, and having a hook formed thereon toward the shoe instep; and a heel having a plate fastened to the top portion thereof; said plate having a part intermediate its ends projecting outward forming a hook and having a slot at the instep end, said hook on the sole plate being constructed and arranged to engage the said slot on the heel plate, and the hook on the heel plate the walls of said bridge, whereby when said heel is forced into position on the shoe sole it is securely locked in working position.

1,343,639. PROCESS AND MEANS FOR CUTTING. JOHN T. MURPHY and PATRICK P. MURPHY, Chicopee Falls, Mass. Filed Feb. 13, 1919. Serial No. 276,769. Renewed Apr. 1, 1920. Serial No. 370,537. 5 Claims. (Cl. 164—18.)



1. A cutting mechanism for manufacturing saw blade blanks consisting of a die frame, cutting blocks secured to the die frame, spacing blocks secured between the cutting blocks and of less height than the cutting blocks and adapted to maintain said cutting blocks in true parallel relation with each other and provide lateral supports therefor, a second die frame, a second set of cutting blocks arranged on said second die frame, and spacing blocks secured between the second set of cutting blocks and adapted to maintain the members of said second set in rigid parallel relation to each other, the cutting blocks of the second set having a close fit between the cutting blocks of the first set.

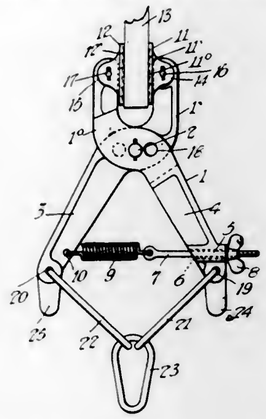
1,343,640. GRAMOPHONE-DRIVE. FREDERICK MYERS, New York, N. Y., assignor, by direct and mesne assignments, to Myers Phonograph Corporation, a Corporation of New York. Filed Jan. 17, 1919. Serial No. 271,590. 7 Claims. (Cl. 274—9.)



1. In a gramophone, the combination with a casing and a record carrying table, of a plate removably supported in said casing, a motor pivotally mounted on said plate to swing on a horizontal axis, a spindle mounted on said plate and on which said table is rotatively mounted, a friction roll driven by said motor and engageable with the periphery of said record table, and means on said plate whereby said roll is adjustably held in contact with said record table.

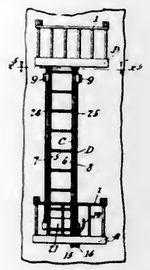
1,343,641. PORTABLE HANGER FOR HOISTING-TACKLE. THOMAS PATTERSON, Hamilton, Ontario, Canada, assignor of one-third to Fyson Donald Patterson and one-third to Thomas Edgar Patterson, Hamilton, Canada. Filed June 18, 1919. Serial No. 305,006. 2 Claims. (Cl. 294—85.)

1. A hanger device for hoisting tackle comprising a pair of tongs having gripping jaws at their upper ends adapted to engage the sides of the beam, an eye bolt extending freely through one of the lower portions of the tongs, an adjusting nut screwed onto the outer end of the eye bolt against the lower portion of the tongs, a tension



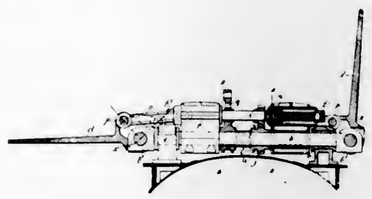
spring connecting the eye of the eye bolt with the other lower portion of the tongs, and a depending loop device connected to the lower portion of the tongs.

1,343,642. FIRE-ESCAPE. CHARLES HENRY PRAY, Los Angeles, Calif. Filed Sept. 4, 1919. Serial No. 321,586. 4 Claims. (Cl. 227—5.)



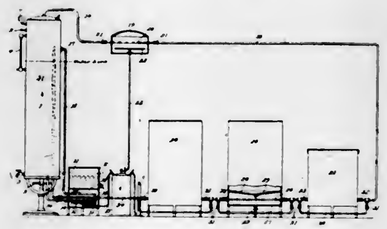
1. A fire escape comprising two relatively spaced stationary platforms and an intermediate stationary vertical ladder, a slidable ground ladder, means for retaining said ground ladder in close sliding engagement with the stationary ladder, counter-balance means connected to the ground ladder, and manually operated means normally supporting the ground ladder in elevated position.

1,343,643. HYDROPLANE OR HORIZONTAL RUDDER OF SUBMARINE VESSELS. WILLIAM REAVELL, Ipswich, England. Filed Oct. 14, 1918. Serial No. 258,045. 4 Claims. (Cl. 114—16.)



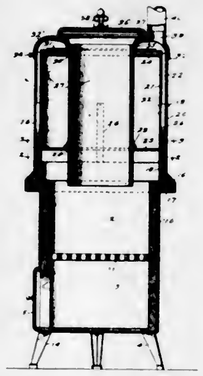
1. Hydroplanes or horizontal rudders for submarine vessels connected at their inner edges by pivots, which are parallel with the planes or rudders to the ends of a common transverse rock shaft mounted in bearings on the upper part of the hull of the vessel, in combination with means for rocking said shaft and means for turning the planes or rudders about their inner edge pivots into and out of their working positions, substantially as described.

1,343,644. CLEANING APPARATUS. THOMAS H. RICHARDSON, Lexington, N. C. Filed Nov. 28, 1919. Serial No. 341,193. 3 Claims. (Cl. 126—371.)



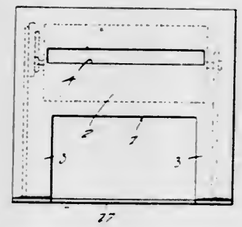
1. A device of the class described comprising a boiler, a water pipe extending from the bottom of the boiler to a point adjacent the upper end thereof above the water line and having a loop adjacent the lower end of the boiler, a heater for said loop, a steam supply pipe extending from the upper end of said boiler, a superheater for said supply pipe, cleaning devices associated with said supply pipe, a return pipe between the supply pipe and the boiler, check valves in the return pipe to prevent a retrograde flow of the steam and a coil in the return pipe positioned above the heater for the aforesaid pipe loop.

1,343,645. HEATING-STOVE. GEORGE G. SCARBOROUGH, Girdletree, Md. Filed May 2, 1919. Serial No. 294,243. 1 Claim. (Cl. 126—73.)



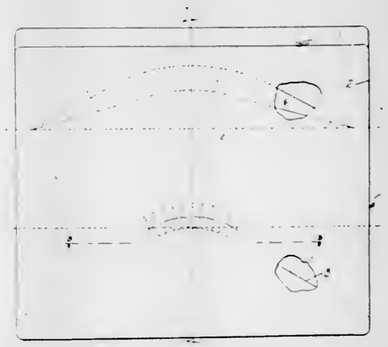
In a self-feeding stove, the combination with an outer shell and an inner shell arranged within the outer shell and spaced therefrom, said inner shell being provided with a bottom having a central opening and a cover for said inner shell, said cover being provided with an opening in alinement with the bottom opening, of a fuel magazine arranged within said inner shell and projecting beyond the ends thereof, said magazine being provided with a flange adapted to rest upon the bottom of said inner shell to support the magazine, a sealing ring snugly fitting said magazine and resting on said cover, a top having an outer flange to engage said outer shell and an inner flange to receive said magazine and maintain it in position, and a cover for said magazine resting on said top.

1,343,646. EXHIBITOR. WILLIAM S. SKELTON, Evansville, Ind. Filed Mar. 14, 1916. Serial No. 84,084. 1 Claim. (Cl. 40—68.)



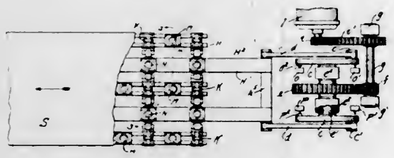
An exhibitor comprising a rotary drum having radially extending projections provided with longitudinally extending flanges to form retaining means for cards placed longitudinally of the drum, said drum having closed end portions with shaft bearings formed concentrically thereof, in combination with a supporting shaft mounted in said bearings of the drum, supporting means for said shaft, drum rotating means engaged with said shaft to rotate the latter and said drum, and a screen positioned in front of said drum provided with a side opening to disclose only the central portion of one of the cards positioned around said drum as the latter is rotated to bring the card in position before said opening.

1,343,647. PROCESS FOR MAKING CURVED FLANGED BARS. REUBEN STANLEY SMITH, Milwaukee, Wis. Filed Apr. 7, 1919. Serial No. 288,085. 14 Claims. (Cl. 153—2.)



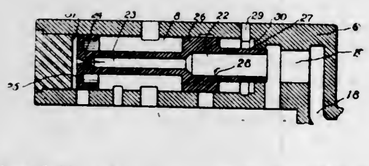
1. The process of shaping sheet metal blanks, consisting in applying a blank bending pressure to one edge of the blank along a convexly curved line to concavely bend said edge and offset the blank laterally, simultaneously crimping the blank along said curved line to form corrugations therein extending perpendicularly to said line from the edge of the blank inwardly and bending the bulging margin of the blank on the opposite side thereof away from the plane of the sheet in which said pressure is exerted.

1,343,648. MAGNETIC FEEDING DEVICE FOR BLANKING-PRESSES. REUBEN STANLEY SMITH, Milwaukee, Wis. Filed June 9, 1919. Serial No. 302,776. 18 Claims. (Cl. 271—54.)



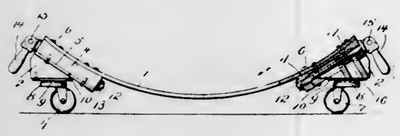
2. In a feeding mechanism, a fixed set of electro-magnets, a movable set of electro-magnets with actuating means for the latter, to move them to and from the fixed magnets, and devices for energizing the magnets of both sets in regular alternation.

1,343,649. VALVE FOR PERCUSSIVE TOOLS. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 11, 1918. Serial No. 266,286. 9 Claims. (Cl. 121—18.)



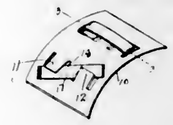
1. In a fluid operated reciprocating motor adapted for a percussive tool of the hammer type, the combination of a cylinder, a piston therein and a valve to control the reciprocations of said piston, said valve being forced continuously in one direction by constant pressure against one end and thrown in the opposite direction by a fluctuating pressure against its opposite end, said opposite end being larger than said first mentioned end, and having a leak port whereby fluid may be supplied through said valve to aid in the reversal of movement of the valve.

1,343,650. VEHICLE-WHEEL TRUCK. WILLIAM W. SNYDER, Cohoes, N. Y. Filed Aug. 4, 1919. Serial No. 315,259. 3 Claims. (Cl. 280—56.)



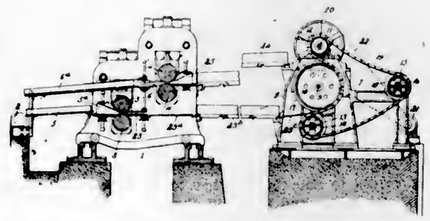
2. A truck of the character described, including a body and its upper side formed to snugly receive a portion of the tread of a wheel, transverse bolsters adjacent the opposite ends of the body having their opposite ends reduced, retaining means on the sides of said body slidably engaging said reduced ends of the bolsters, wheels on the bolsters, brackets secured to the undersides of the opposite end portions of the body slidably received in ways formed in said bolsters, screw threaded shafts mounted in the brackets and disposed longitudinally of the body, screw threaded bearing means immovably arranged on the bolsters and receiving said screw threaded shafts therethrough, and means on said shafts for facilitating rotation of the same whereby to effect sliding movement between the bolsters and the adjacent portions of the body.

1,343,651. DISPLAY-CARD. ROGERS TOWNLEY STAFFORD, Providence, R. I., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 4, 1919. Serial No. 287,388. 1 Claim. (Cl. 211—34.)



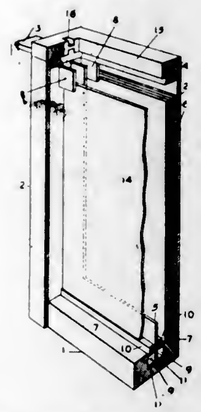
A display card having a pair of side by side, spaced-apart oppositely-extending parallel tongues, each having one free end cut from the stock, a bar between said tongues disposed parallel therewith and having both ends integral with the card, said card being provided with openings therethrough on each side of each tongue of a width to receive the stock of the work to be mounted.

1,343,652. ROLLING-MILL REPEATER. ARTHUR J. TOWNSEND, Canton, Ohio. Filed May 7, 1918. Serial No. 233,024. (3 Claims. (Cl. 80—37.)



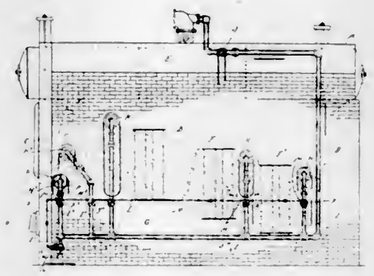
1. The combination of a double stand of rolls, a repeater mechanism in rear of the rolls, guideways between the respective rolls and the repeater mechanism, and means for operating the repeater mechanism slightly faster than the lower rolls to carry sheet strips in tension from said lower rolls.

1,343,653. PHOTOGRAPHIC PLATE HOLDER. YOSHIMORI YAMADA, San Francisco, Calif. Filed Sept. 21, 1914, Serial No. 862,801. Renewed Mar. 2, 1920. Serial No. 362,743. 5 Claims. (Cl. 95—72.)



1. A photographic plate holder comprising a container for dry plates having a discharge opening at one end and means for closing the same and provided interiorly with holding flanges and a false bottom whereby the plates may, by gravity, be released from said flanges and brought into position for discharge.

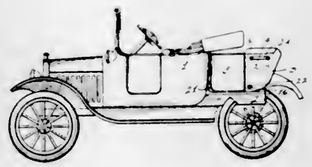
1,343,654. BOILER-CLEANER. LEWIS BEEBEE and FRANK BOWERS, Detroit, Mich., assignors, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich., a Copartnership composed of Raphael Herman and Samuel J. Herman. Filed July 21, 1916. Serial No. 110,492. 5 Claims. (Cl. 122—392.)



1. In a boiler cleaner, the combination with a plurality of blower units, a main steam supply pipe for said units, connections between said supply pipe and units, control valves for said connections, a main shut-off valve for said steam supply pipe and means controlled by the operation of said valves for automatically indicating when the main supply valve is left open and the valves in the branch connections closed.

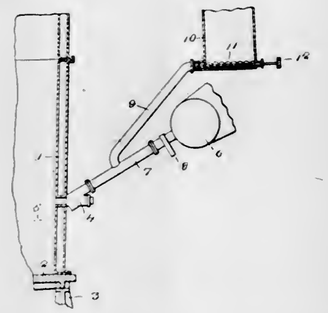
4. The combination with a boiler, including spaced headers, substantially horizontal water tubes connecting said headers, a substantially vertical baffle spaced from one of the headers, a combustion chamber below the tubes and arranged so that the gases from the combustion chamber pass upwardly intermediate said baffle and said header, of a blower unit located beneath the water tubes behind and in close proximity to the inner wall of said header, and a protection or guard for said unit positioned directly therebeneath.

1,343,655. CONVERTIBLE AUTOMOBILE-BODY. WALTER L. CARTER, Ontario, Calif. Filed Apr. 25, 1917. Serial No. 165,637. 1 Claim. (Cl. 296—66.)



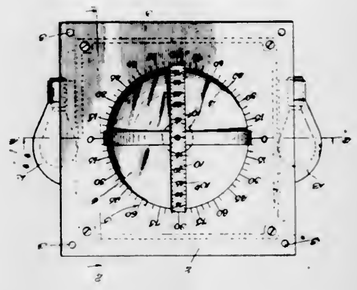
The combination with a main vehicle body having a platform extending rearwardly therefrom, of a seat pivotally supported on the rear end of said platform, and having vertical edges at the sides adapted to fold against the upper surface of the platform when the seat is closed, and to rest substantially at right angles to said platform when the seat is opened, vertical filling strips attached to the rear of the body opposite the edges of said seats, openings being formed between said filling strips and said seats when the seat is opened, and doors hinged to the sides of said seats and adapted to span said openings when in position for use, and to fold inwardly against the front edge of said seat when the seat is closed.

1,343,656. SMELTING LEAD AND LIKE ORES AND PRODUCTS. THOMAS W. CAVERS, Copperhill, Tenn., assignor to Garred-Cavers Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1918. Serial No. 249,199. 5 Claims. (Cl. 75—17.)



1. A process of smelting oxidized lead ores or other lead-containing materials, which comprises the step of heating a mixture of lead oxid material and carbonaceous reducing agent, by means of the combustion of powdered coal introduced into the furnace with an air blast.

1,343,657. LEVEL-INDICATOR AND INCLINOMETER. FREDERICK W. CHARLES, Seattle, Wash. Filed Sept. 11, 1919. Serial No. 323,109. 2 Claims. (Cl. 33—206.)

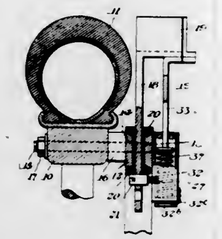


1. A level indicator and inclinometer comprising a casing, a cover therefor provided with a circular opening, there being a graduated scale on the surface of the cover aroundd the edge of the opening, a spherical container provided with a projecting portion and containing a spirit fluid, a pair of straps at right angles to each other closely embracing the container and secured to the cover, and forming an outer support for the container, one of the straps having a graduated scale thereon, a pair of split straps secured to the rear surface of the cover and closely embracing the surface of the container and forming an inner support for the container, the projecting portion on the latter extending through the split portions of the straps, whereby the projecting portion on the container projecting through the split straps prevents movement of the container in the straps and the spirit fluid compared with the scales will indicate the angle of inclination.

1,343,658. TRACTION DEVICE. WILLIAM J. CHISM, Cleveland, Ohio. Filed Apr. 12, 1919. Serial No. 289,550. 3 Claims. (Cl. 21—269.)

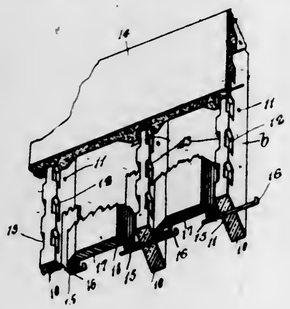
1. The combination with a vehicle wheel, of a traction member, means for yieldingly mounting the member upon

the wheel in a manner to permit of a radial sliding movement, means including a laterally movable cam member controlled by the driver of the vehicle and movable into and out of the path of the traction member for moving



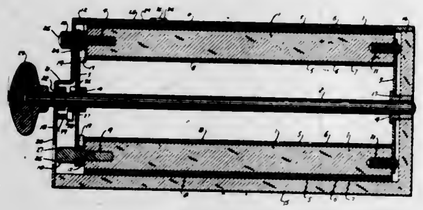
the latter to an inoperative position, automatically operated means for holding the said member in such position and means carried by the member for releasing the holding means.

1,343,659. CONSTRUCTION OF CONCRETE FLOORINGS AND NON-SONOROUS CEILINGS. LOUIS CHRISTIN, Geneva, Switzerland. Filed May 3, 1918. Serial No. 232,396. 1 Claim. (Cl. 72—66.)



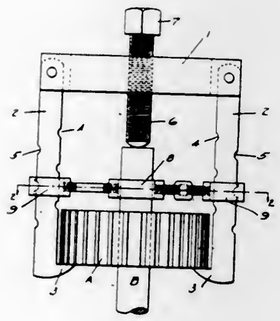
In a concrete floor structure, a plurality of spaced preformed beams each having a series of projections in its sides adjacent the top thereof, a plurality of slabs each having spaced recesses in its opposite edges and adapted to fit between predetermined beams, and floor sections molded over the top of the beams and into the recesses in the beams and slabs whereby the same are united and slabs of the same width may be employed with beams unequally spaced.

1,343,660. CALCULATOR. ARTHUR B. CHRISTOPHER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed May 24, 1919. Serial No. 299,579. 6 Claims. (Cl. 235—87.)



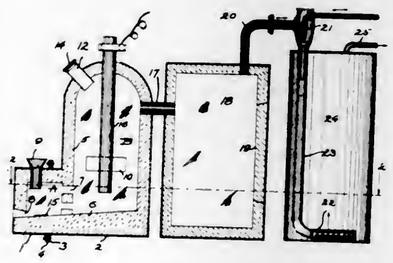
3. In a calculator, the combination of a plurality of individually rotatable calculating drums disposed circumferentially about a central axis, said drums having calculating tables on their faces, a case having a sight-opening, means for supporting and for rotating said drums about said central axis to bring any of the drums into position opposite said sight-opening, said case enveloping all of said drums in any position the drums may assume, a thumb-head associated with each drum for rotating the same upon its individual axis, said case having an end wall with a slot therethrough, along which each thumb-head passes, and through which each thumb-head projects when its corresponding drum lies opposite said sight-opening.

1,343,661. GEAR-PULLER. JOSEPH E. CRIM and HARRY E. BROWER, Decatur, Ill. Filed Nov. 6, 1919. Serial No. 336,032. 5 Claims. (Cl. 29—85.)



1. A gear puller including a pair of pivoted jaws, a pilot ring, collars slidable on said jaws, and adjustable connections between said collars and said pilot ring.

1,343,662. PROCESS FOR PRODUCING ANHYDROUS ALUMINUM CHLORID. PAUL DANCKWARDT, Denver, Colo. Filed June 23, 1919. Serial No. 306,181. 5 Claims. (Cl. 204—19.)



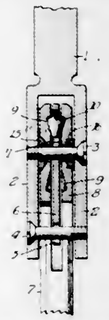
1. A process of producing anhydrous aluminum chlorid which consists in electrolyzing a metal chlorid in contact with an aluminum compound so that the chlorin in nascent state can react with it, forming anhydrous aluminum chlorid.

1,343,663. DROP-BOX LOOM. ARTHUR A. DAVENPORT, Lockport, N. Y. Filed Mar. 15, 1920. Serial No. 365,897. 10 Claims. (Cl. 139—52.)



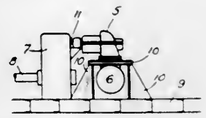
1. In a weaving machine, the combination with weft-detecting means for stopping the machine when the weft is omitted, of means for rendering said weft-detecting means inoperative to permit a portion of the work to be formed without weft threads.

1,343,664. COMPASSES. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Factory, Chicago, Ill., a Corporation of Delaware. Filed June 11, 1919. Serial No. 303,271. 8 Claims. (Cl. 33—157.)



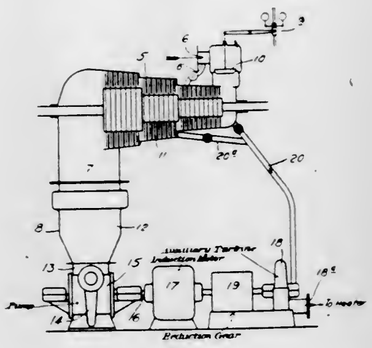
1. A device of the class described, having a head, conical rollers, legs having shanks with annular recesses sunk in their inner faces to accommodate said rollers, and a centering plate interposed between said shanks and having apertures to accommodate said rollers, said centering plate being connected to the head for holding it in central position.

1,343,665. MARINE TURBINE INSTALLATION. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Oct. 18, 1917. Serial No. 197,361. 1 Claim. (Cl. 60—95.)



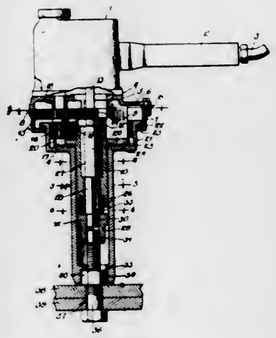
A turbine installation comprising a condenser provided with a supporting exhaust connection for the turbine, a turbine supported by the said exhaust connection and exhausting therethrough into the condenser, and means for supporting the condenser so that the points of support are substantially in the plane of the joint between the connection and the turbine casing and so that the condenser and the turbine casing are free to expand independently on opposite sides of the point of support.

1,343,666. HEAT-CONSERVING APPARATUS. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Nov. 21, 1917. Serial No. 203,261. 9 Claims. (Cl. 60—102.)



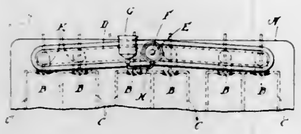
1. In a power developing system, a main power developing unit, an auxiliary power developing unit, a feed water heater adapted to receive exhaust fluid from the auxiliary unit and means for proportioning the delivery of motive fluid to the auxiliary unit in response to variations in the flow of motive fluid through the main unit.

1,343,667. BOLTING-UP DEVICE. CARL EVENSEN, Seabold, Wash. Filed July 12, 1919. Serial No. 310,299. 6 Claims. (Cl. 81—55.)



1. A device of the class described including a motor, a train of gears for transmitting power from the motor, a casing having a drum on one end provided with internal gear teeth to mesh with one of said gears and receive power from the motor, a socket formed at the other end of the casing to receive a nut, a frame to support the casing and gears, a telescopic shaft mounted in the casing, a gripping member on said telescopic shaft for gripping the squared end portion of a bolt, and means for supplying power to the motor.

1,343,668. INTERNAL-COMBUSTION ENGINE. STEPHEN IVAN FEKETE, Detroit, Mich., assignor, by mesne assignments, to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 11, 1917. Serial No. 180,023. 2 Claims. (Cl. 123—52.)



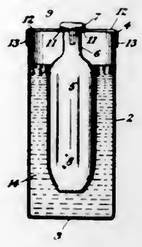
1. An internal combustion engine having a plurality of cylinders, an overhead valve in the top of each cylinder, a fuel inlet manifold sloping downwardly in each direction from a fuel admission point midway of the cylinders, and downwardly inclined passages leading from said manifold to said valves, combined with a carbureter the air inlet pipe of which enters the inlet manifold at the said point midway of said cylinders, said carbureter having a fuel jet nozzle located above said midway point.

1,343,669. OIL-COOLING APPARATUS. OTIS C. FUNDERBURK, Detroit, Mich., assignor to Murray & Tregurtha Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 31, 1917. Serial No. 199,507. 9 Claims. (Cl. 257—227.)

1. The improved oil cooler comprising a container having inlet and outlet water connections and inlet and outlet oil connections, a core within said container which consists of a pair of manifolds one of which is provided with an arcuate chamber and the other of which is provided with a pair of arcuate chambers, a plurality of tubes connecting each of said arcuate chambers in one manifold with the arcuate chamber in the other manifold, a fluid connection from the inlet oil connection and from the outlet oil connection to each of the said pair of arcuate chambers, said tubes and fluid connections being subjected to a circulation of water through said container.

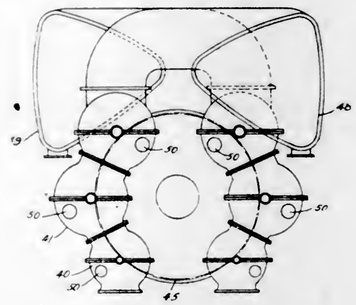
1,343,670. HEATING DEVICE. SAMUEL GOODMAN, Brooklyn, N. Y. Filed Feb. 14, 1919. Serial No. 277,121. 2 Claims. (Cl. 126—261.)

2. In a device of the class described, the combination with an open vessel for heating liquid, of a member adapted to hold a bottle in the liquid in said vessel, which member includes an outer annular portion adapted to rest on the rim of the vessel, means to locate said annular portion on said rim, and means to clasp the neck



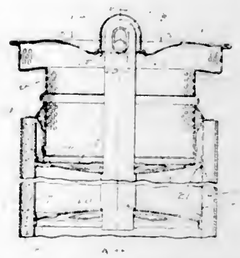
of a bottle which embody an inner annular portion and two portions extending therefrom to the outer annular portion.

1,343,671. POWER-DEVELOPING APPARATUS. HERBERT T. HERR, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 25, 1916. Serial No. 127,586. 1 Claim. (Cl. 60—70.)



A power developing apparatus comprising a gear, two turbine units disposed on opposite sides of the gear and on opposite sides of the axis of the said gear, each divided into separate, communicating, superimposed sections, a separate driving pinion operatively connected to the rotor of each section and meshing with the said gear, and a separate condenser communicating with the uppermost section of each unit and located on the side of the axis opposite that on which the unit is located and somewhat above the axis of the gear.

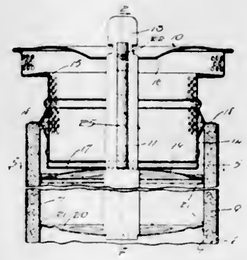
1,343,672. OIL-BURNER. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Jan. 15, 1919. Serial No. 271,197. 12 Claims. (Cl. 67—63.)



1. In an oil burner, a wick, means for guiding the wick including a tube, a flame spreader carried by the wick

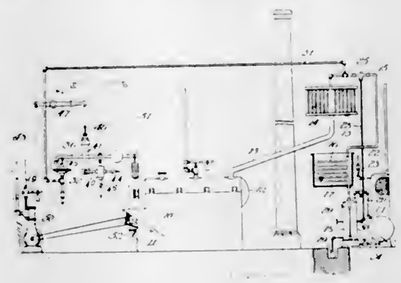
and having a cover plate, a guide bar for said spreader mounted centrally of said tube and having a slot in its upper end, a housing on said cover plate including a plate having a slot therein through which the upper end of said guide bar extends, said plate having a central depression therein, and a ball supported by said plate in the depression thereof so as to normally lie in said slot in the guide bar.

1,343,673. OIL-BURNER. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Jan. 15, 1919. Serial No. 271,198. 11 Claims. (Cl. 67—63.)



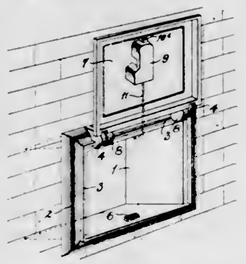
1. In an oil burner, a wick, means for guiding the wick including a tube, a flame spreader carried by the wick and having a top plate, and a guide bar for said spreader mounted centrally of said tube and having a twisted neck portion at its upper end and a head on said neck portion disposed in a plane transversely of the bar, said top plate having a pair of transverse slots therein, one for said neck portion and one for said head portion, said slots being adapted to permit the bar and neck to pass therethrough and permitting a passage of the head therethrough after the spreader has been turned through a fixed arc of movement.

1,343,674. DISTILLATION OF PETROLEUM-OILS. ROBERT E. HUMPHREYS, Whiting, Ind., and WILLIAM M. BURTON, Chicago, Ill., assignors to The Standard Oil Company, Chicago, Ill., a Corporation of Indiana. Filed Nov. 28, 1916. Serial No. 133,871. 3 Claims. (Cl. 196—25.)



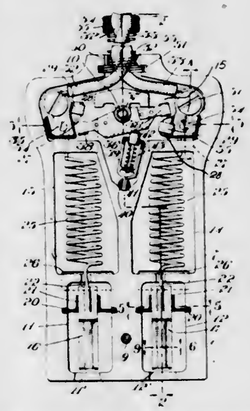
1. The process of distilling relatively heavy petroleum oils to obtain therefrom relatively light oils which consists in subjecting a liquid body of such heavy oil to distillation, leading off the evolved vapors through a reflux fractionating condenser in free communication with the still, restricting the outlet from the said condenser to maintain a pressure of upward of 4 atmospheres in the same and in the still to which it is connected, causing said condenser to continuously condense from the mixture of vapors therein substantially all insufficiently decomposed products without condensing any substantial proportion of sufficiently decomposed products, by controlling such restricted outlet, and condensing and collecting sufficiently decomposed vapors which pass the said restricted outlet.

1,343,675. COAL-CHUTE. JOHN E. HYATT and HANS J. MOEN, Stevens Point, Wis. Filed Dec. 14, 1916. Serial No. 137,000. 5 Claims. (Cl. 193—33.)



1. In a coal chute apparatus, the combination of a chute frame, a door to close the frame opening, a lock keeper cast in one with the chute frame, a lock casing cast in one with the door, and a rigid integral lock member mounted in said casing to coöperate with the keeper, said casing and lock member being formed to permit their operative assembly and insure the maintenance of the lock member in operative position in the casing regardless of the position of the door and without employment of any supplemental means.

1,343,676. CONNECTING-PLUG. SIDNEY J. LA MONTAINE, Chicago, Ill. Filed Feb. 1, 1919. Serial No. 274,413. 17 Claims. (Cl. 173—361.)

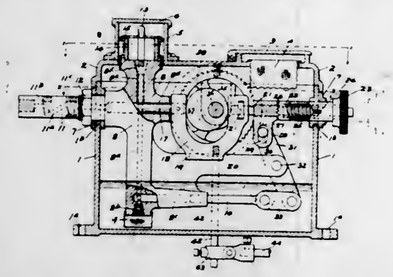


6. A connecting plug having in combination two insulating separable members having therebetween two clip receiving receptacles; two conductor receiving receptacles thereabove, the latter receptacles having openings at each end to permit the passage of air therethrough and a switch receiving receptacle above the conductor receiving receptacle and separated therefrom.

1,343,677. AUTOMATIC OIL-PUMP WITH SIGHT-FEED. JOHN J. LANGMACK, Portland, Oreg. Filed June 14, 1917. Serial No. 174,819. Renewed Sept. 2, 1919. Serial No. 321,240. 11 Claims. (Cl. 184—27.)

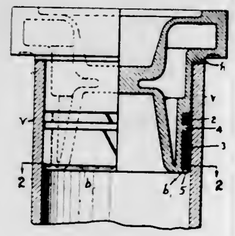
3. In a device of the character referred to, a box constituting a reservoir for lubricant and having openings

opposite each other in its upper edge, a pumping mechanism in said box and detachably seated in said openings, whereby it can be lifted bodily therefrom, said pumping mechanism having a drip spout for feeding the oil, with a



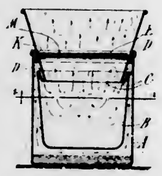
sight tube around the same formed as a part of said pumping mechanism and removable therewith from said box, and a cover for said box having a sight tube adapted to fit over said drip spout and its inclosure, substantially as described.

1,343,678. COMBINED CYLINDER-HEAD. THOMAS D. LEMIEUX, Lakewood, Ohio. Filed Aug. 6, 1919. Serial No. 315,617. 3 Claims. (Cl. 123—75.)



1. A fixed cylinder head having a depending portion with a flange about its bottom and a packing ring about the same resting on said flange, and the said flange provided with V-shaped channels in its top at intervals about the same terminating at the base of said flange in such relation to said ring as to conduct a fluid under pressure behind the ring.

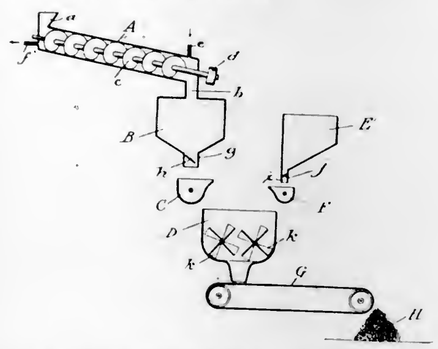
1,343,679. STRAINER. HUGO MOCK, New York, N. Y. Filed Jan. 23, 1919. Serial No. 272,653. 5 Claims. (Cl. 210—16.)



1. In a strainer, the combination of an outer vessel, an inner vessel fitting steam tight therein, with an opening in said inner vessel below the junction of said vessels, and a tight-fitting filter within the inner vessel above said opening.

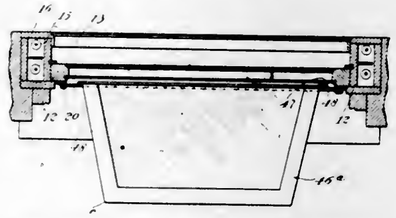
5. A process of filtering colloidal foods, which consists in placing a small quantity of water in the bottom of a container having a filtering closure at its upper portion, driving the air from said container by steam generated by the application of heat to the water, subsequently placing the food upon said filtering closure, and removing the container from the source of heat, whereby the condensation of the steam in said container will cause the filtrate to be drawn rapidly downward through the filtering closure.

1,343,680. PROCESS OF COATING MINERAL MATERIAL AND PRODUCT RESULTING THEREFROM. JAMES A. W. PINE, New York, N. Y., assignor, by mesne assignments, to Blackstone International Corporation, a Corporation of Maine. Filed July 1, 1915. Serial No. 37,541. 14 Claims. (Cl. 94—23.)



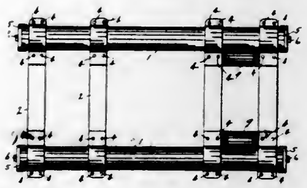
11. In the art of paving, a new article of commerce embodying mineral globules or particles coated with a pellicle or lamina of bituminous cement applied in an attenuated condition.

1,343,681. DISPLAY-HOLDER. LEONARD G. QUACKENBOSS, Chicago, Ill. Filed June 25, 1917. Serial No. 176,797. 8 Claims. (Cl. 211—25.)



1. The combination with a building construction, having an opening therein, lying in a substantially vertical plane, and an upper and lower sash, slidably mounted in said opening, of a holder and a mounting for directing said holder for movement through the opening beneath said upper sash, and for sliding movement to a position in front of the upper sash.

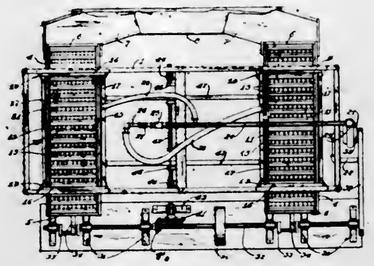
1,343,682. VEHICLE-FRAME. WILLIAM U. RICHMOND, Madison, Wis. Filed May 31, 1919. Serial No. 300,920½. 1 Claim. (Cl. 280—106.)



In a device of the kind described, a metal frame composed of tubular side rails and suitable cross beams, heads

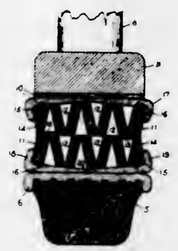
adapted to close the ends of the tubes and means for holding the heads in contact with seats formed in the ends of the tubes.

1,343,683. CONCENTRATOR. MANUEL L. ROGERS, Johannesburg, Calif. Filed Nov. 23, 1917. Serial No. 203,503. 5 Claims. (Cl. 83—88.)



1. In a concentrator of the class described, a framework, and a riffle adjustably supported thereby comprising a trough, a screen and a perforated plate disposed one above the other mounted in said trough parallel to the base thereof to afford a chamber in said trough below said screen, inclined riffle-bars seated on said plate, and wedge means disposed above said riffle bars for holding said screen, plate and riffle-bars removably secured in position within said trough.

1,343,684. WHEEL-CUSHION AND MEANS FOR MOUNTING SAME. ARTHUR L. RUNYAN, Omaha, Nebr. Filed Feb. 1, 1919. Serial No. 274,579. 5 Claims. (Cl. 152—36.)



4. In a structure of the class described, an annular cushion of resilient material, comprising concentric parts each of approximately rectangular transverse section, each of said cushion-parts having series of tapering air-pockets in the inner and outer faces thereof, said air-pockets opening to said faces so that the openings and the continuous portions of each face form a checkerboard arrangement and the opening of each pocket is opposite a continuous portion of the opposite face, said cushion-parts being juxtaposed so that in the abutting faces thereof the opening of each pocket is opposite a continuous portion of the other cushion-part, whereby to close the openings of the respective pockets, and means on each cushion-part adapted to extend into some of the pockets of the other part to interlock the parts against relative lateral movement.

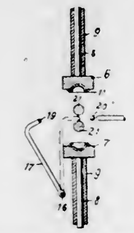
1,343,685. RESILIENT TIRE-FILLER. ARTHUR L. RUNYAN, Omaha, Nebr. Filed Feb. 1, 1919. Serial No. 274,580. 5 Claims. (Cl. 152—5.)

5. The combination with a flanged wheel-rim, and a tire-casing having bead-portions fitting upon said rim between the flanges thereof, of a sheet-metal spacing-ring having side-portions fitting against the inside of the casing adjoining the rim and adapted to maintain a spread of said beads against the rim-flanges, said ring having an intermediate portion spaced from the rim and connecting said side-portions, an air-pocketed filler of resilient material



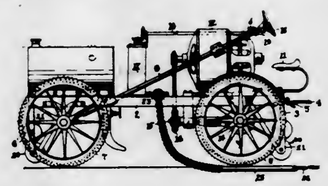
seated upon the intermediate portion of said ring and occupying the space within the tread-portion of the casing, and interengaging means between the spacing-ring and filler and between the wheel-rim and spacing-ring for preventing relative circumferential movement of the respective parts.

1,343,686. METHOD OF MAKING SPARK-PLUG INSULATORS. JOHN SCHARL, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 18, 1918. Serial No. 267,240. 5 Claims. (Cl. 49—78.1.)



1. In the method of making a spark plug insulator, that step which consists in re-fusing a silica glass body to render the same plastic and then folding such plastic body upon a core.

1,343,687. ICE-TRACTOR. DUDLEY H. SCOTT, Cleveland, Ohio. Filed Mar. 28, 1917. Serial No. 157,875. 8 Claims. (Cl. 180—1.)

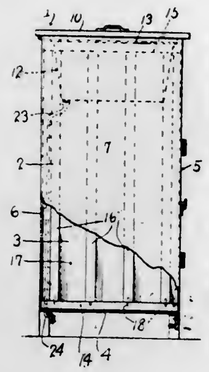


1. An ice tractor having pivoted steering wheels at its front, only one of said wheels being provided with a metal-studded tread in combination with a pair of studded drive-wheels at the rear of said tractor.

1,343,688. REFRIGERATOR OR LIKE RECEPTACLE. DANIEL E. SHONGO, Lake Katrine, N. Y. Filed May 12, 1919. Serial No. 296,335. 1 Claim. (Cl. 220—9.)

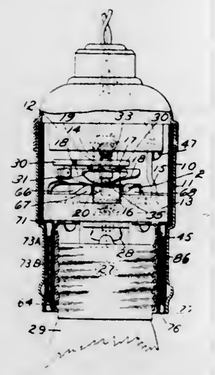
A refrigerator comprising a frame consisting of a bottom frame member, an upper frame member and uprights

connecting the members together, an outer receptacle inclosing said frame and having an open top the edge of which being secured to the outer edge of said upper member, an inner receptacle supported by and spaced from the



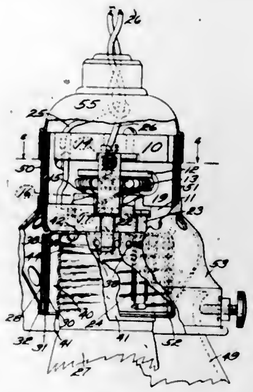
outer receptacle by said frame and having an open top the edge of which is secured to the inner edge of the upper member, an ice pan supported by and completely closing the open top of the inner receptacle and a cover for the pan.

1,343,689. LAMP-DIMMING-SOCKET SWITCH. RAYMOND D. SMITH, Arlington, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Oct. 27, 1916, Serial No. 128,132. Divided and this application filed Jan. 10, 1917. Serial No. 141,676. Renewed Aug. 12, 1919. Serial No. 317,098. 10 Claims. (Cl. 219—49.)



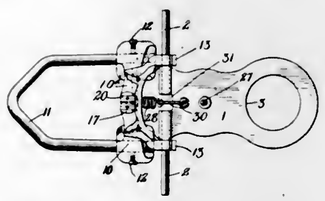
1. A socket-switch structure having, in combination with means for attachment and a single electrical connection to the supply circuit, a switch-holding block with a centrally-mounted, ratchet-driven, current-switching member, and a plurality of circularly and concentrically arranged inclines positioned cooperatively with said member; a lamp receptacle mounted on said insulating block with a circuit connection to a contact plate on a selected member of the series of inclines; and an electrical resistance unit having circuit connections to contact plates on others of said inclines arranged in series with the receptacle contacts; whereby progressive ratchet-caused movement of said current switching member varies in a predetermined manner the operative electrical series connection of said lamp receptacle and said resistance unit to the supply circuit.

1,343,690. HEAT-DISSIPATING SOCKET-SWITCH. RAYMOND D. SMITH, Arlington, Mass., assignor to Tremont Products Company, Boston, Mass., a Corporation of Massachusetts. Filed June 5, 1917, Serial No. 172,932. Renewed Aug. 12, 1919. Serial No. 317,099. 12 Claims. (Cl. 219—49.)



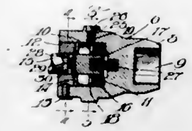
1. The combination with a socket-switch structure, including a lower supporting and insulating block for a switch mechanism carried thereabove, and a lamp receptacle depending from the lower surface of said block; of an insulated supporting drum rigidly secured to the lower face of said block, surrounding said receptacle and spaced therefrom at all points; an insulated resistance winding carried by said drum; an outer supporting and protecting casing adapted telescopically to receive and to inclose both said socket-switch structure and said resistance winding, said casing having an inwardly extending lower portion adapted to support the said drum and thereby said socket-switch structure by engagement with the former; together with means of attachment for said casing whereby said socket-switch structure is retained therewithin.

1,343,691. DENTAL ARTICULATOR. WILLIAM MONELL STANBROUGH, Newburgh, N. Y. Filed Jan. 21, 1919. Serial No. 272,256. 15 Claims. (Cl. 32—1.)



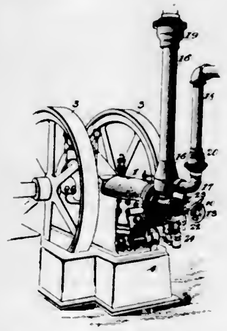
1. In a dental articulator the combination with upper and lower jaw members, and pivotal connections between said members permitting fore and aft mandibular movements, of a supporting surface connected with one jaw member provided with an inclined centering groove extending fore and aft with respect to said jaw members and being inclined vertically from front to rear, and a part connected with the other of said jaw members for engaging said groove and sliding longitudinally thereof during fore and aft mandibular movements, whereby said jaw members are caused to move away from and toward each other by said fore and aft mandibular movements while being positively centered and guided in such movements, to effect an accurate grinding of inclined opposed tooth faces disposed transversely to the line of said fore and aft movement.

1,343,692. SOCKET-WRENCH. ADOLF STERN, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,904. 3 Claims. (Cl. 81—58.)



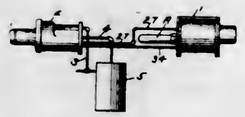
1. A socket wrench or the like comprising in combination a wrench head block having in one end a socket for engagement with the head of a nut or the like, and having in its other end a circular socket, a closure for the outer end of said circular socket, there being a series of radially extending ratchet teeth on the inner face of the circular recess, and there being another series of radially extending ratchet teeth on the inner face of said closure, the teeth of the first mentioned series working in opposite direction from the teeth of the second mentioned series, a handle shank extending through the closure of the recess aforesaid, an enlarged head on the inner end of said shank located between the two series of teeth aforesaid, radially extending ratchet teeth on the opposite faces of said enlarged head of suitable form to engage respectively with the first and second mentioned sets of ratchet teeth, the depth of the circular socket being sufficient to permit of reciprocating movement of the shank and enlarged head for the purpose of disengaging the teeth on one face of the head from one of said sets of teeth and carrying the other teeth of the head into engagement with the other of said sets of teeth, there being a series of radially extending recesses in the wrench head having their inner ends in communication with the circular socket aforesaid, a ball movably mounted in each of said radially extending recesses, a spring tending to move each ball inwardly to a position where its face overlaps the cylindrical surface of the circular socket, whereby said balls conjointly engage one or the other faces of the enlarged head tending to retain the same in a given position within the circular socket, and an axially extending compression spring interposed between the wrench head and the end of the shank aforesaid, substantially as described.

1,343,693. INTERNAL-COMBUSTION-ENGINE PUMP. CARL C. THOMAS, Baltimore, Md. Filed Apr. 2, 1915. Serial No. 18,817. Renewed Apr. 30, 1920. Serial No. 378,918. 15 Claims. (Cl. 103—1.)



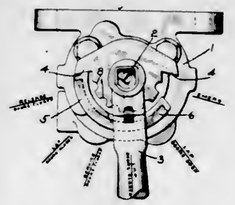
1. An internal combustion engine pump comprising an internal combustion engine operating upon a regular cycle and provided with the usual inlet and exhaust valves and fly wheel, a pump conduit, means for discharging part of the working gases from said engine into said conduit early in the working stroke of said engine, and means for cutting off said discharge before the completion of the working stroke.

1,343,694. FLUID-PRESSURE BRAKE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1917. Serial No. 142,624. 10 Claims. (Cl. 303—62.)



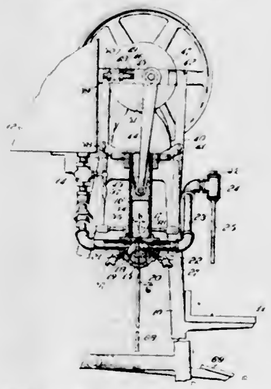
1. In a fluid pressure brake, the combination with a brake cylinder, of means for continually changing the rate of flow of fluid to the brake cylinder as the brake cylinder piston moves out.

1,343,695. REVERSIBLE BRAKE-VALVE HANDLE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1918. Serial No. 265,592. 3 Claims. (Cl. 303—52.)



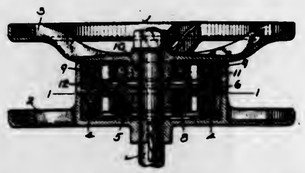
1. In a brake valve, the combination with a valve stem, of a handle adapted to be applied to said valve stem, stops for limiting the movement of the handle, and means carried by the handle for engaging said stops upon applying the handle in the reversed position to the valve stem, to further limit the movement of the handle.

1,343,696. RECEPTACLE-FILLING MACHINE. DAVID A. URIE, Chicago, Ill. Filed Dec. 23, 1918. Serial No. 267,896. 16 Claims. (Cl. 221—103.)



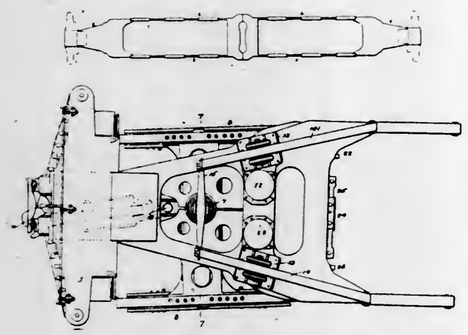
1. A machine of the class described, comprising a fluid-holding vessel, discharge means, fluid-control mechanism intermediate of said vessel and said means adapted to receive predetermined quantities of fluid in advance of said discharge means and to induce a flow of the predetermined quantities through said means and prevent any subsequent drip therefrom, and regulable means whereby said mechanism is actuated and positive flow of fluid from the vessel to said discharge means induced and the quantity discharged regulated.

1,343,697. HAND-BRAKE. HENRY A. WAHLERT, St. Louis, Mo., assignor to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 12, 1918. Serial No. 228,119. 3 Claims. (Cl. 74—119.)



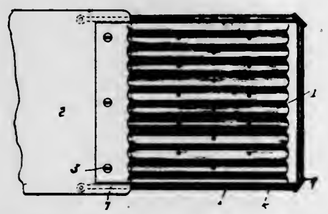
1. In a hand brake device, the combination with a brake staff, of a hand wheel directly connected to said brake staff, a power hand wheel, and a plurality of planetary gear systems for operatively connecting the power hand wheel to said brake staff.

1,343,698. FOOTPLATE FOR ELECTRIC LOCOMOTIVES. ALLEN WALLACE, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 20, 1919. Serial No. 278,252. 6 Claims. (Cl. 105—73.)



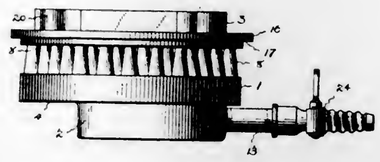
1. A foot plate for an electric locomotive frame arranged to be attached to either end of the main frame of a locomotive and having a single extension at the opposite end to which the bumper frame is secured and having a center bearing for a pivoted truck and having an opening at the center bearing for the passage of the center pin of the truck and having a pivot bearing for the draw bar of a coupling.

1,343,699. FLATIRON-REST. CATHERINE V. WILSON, Toledo, Ohio. Filed Oct. 10, 1919. Serial No. 329,844. 6 Claims. (Cl. 68—27.)



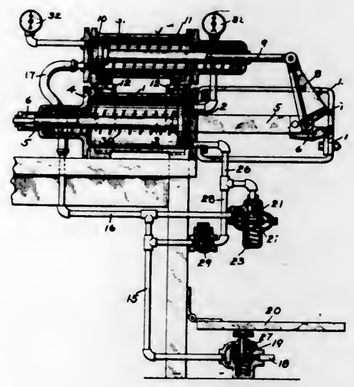
1. A flat-iron rest comprising a bottom having an edge portion for securing to an edge of an ironing board, or the like, whereby the remainder of the bottom is projected horizontally from the board, and a reinforcing means attached to and extending around the sides and outer end edges of the bottom and adapted to be attached to a board to which the bottom is attached.

1,343,700. GAS-BURNER. JOHN H. ACKROYD, Milford, Conn. Filed Feb. 20, 1919. Serial No. 278,244. 14 Claims. (Cl. 158—99.)



14. A gas burner of the class described composed of a plurality of separable sections, one section constituting a body member and having a plurality of burner units and air supply governing baffles with defined air passages therebetween, another section constituting a covering member for said units and baffles and having flanges around and adjacent to said units for guarding the flames of said burner units and directing air for combustion to said air passages, and a third section providing a gas distributing chamber communicating with said burner units.

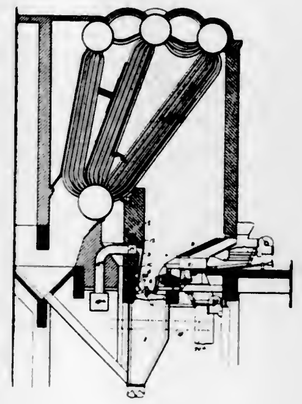
1,343,701. PNEUMATIC CORE-WIRE PULLER. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 3, 1918. Serial No. 265,134. 4 Claims. (Cl. 254—93.)



1. In a core wire pulling machine, the combination with a cylinder, a piston therein operated by fluid under pressure for supplying power for pulling the core wires, and clamping jaws movable by said piston and adapted to grip the core wires, of a second cylinder and a piston therein, operated by fluid under pressure, for actuating said jaws, and means for first supplying fluid under pressure to the second cylinder and then automatically to the first cylinder.

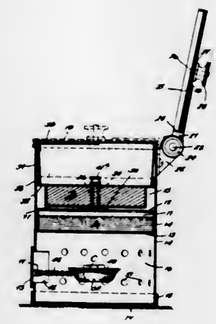
1,343,702. AIR-BACK FOR STOKERS. MAXWELL ALPERN, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 2, 1916. Serial No. 129,170. 5 Claims. (Cl. 110—44.)

2. The combination in an inclined, underfeed stoker of a furnace including two structures defining an elongated, horizontally extending ash pocket; means for discharging ashes from said pocket; with a corrugated plate mounted



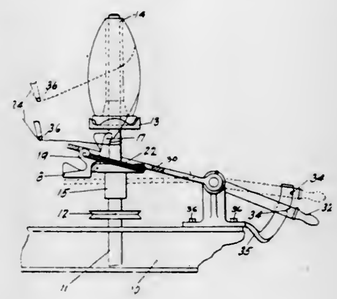
on one of said structures and having air spaces adjacent its rear face.

1,343,703. SHAVING KIT. JAMES BARRETT, New York, N. Y. Filed Nov. 11, 1918. Serial No. 262,020. 3 Claims. (Cl. 45—135.)



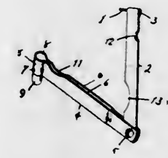
1. A shaving kit comprising a water compartment, and another compartment above it, a water conduit connected to said water compartment and leading therefrom to said upper compartment, a soap container disposed in said upper compartment adapted to be removed therefrom, a body of soap filling the lower portion thereof, said container having a passage adapted to embrace said water conduit, said water conduit terminating above said body of soap and below the upper end of said upper compartment, said water conduit adapted to transmit water from said water compartment to the upper surface of said body of soap upon tilting the said kit.

1,343,704. YARN-CATCHER FOR SPINNING-MACHINES. GEORGE BELL, Concord Junction, Mass. Filed Dec. 28, 1918. Serial No. 268,718. 7 Claims. (Cl. 118—64.)



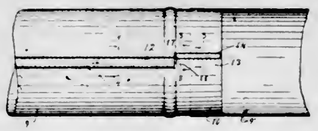
1. A yarn catcher for spinning machines, comprising, a spindle, a support mounted thereon and rotatable therewith, a holding member pivotally mounted on said support, and adapted to hold the yarn extending from the mule to the bobbin, against the spindle.

1,343,705. CLEANER FOR BLOW-TORCH NOZZLES AND THE LIKE. OTTO BERNZ, Newark, N. J. Filed Feb. 19, 1919. Serial No. 278,065. 2 Claims. (Cl. 240—119.)



1. In a device of the character described, the combination of a holder formed of a flat strip of material, a wire projecting laterally from one edge thereof, a sheath for said holder, said sheath having a pair of spaced sides of a width substantially equal to the width of said holder to receive the holder between them, and a guard projecting from one edge of said sheath to receive the said wire on the holder when the holder is arranged between the sides of said sheath.

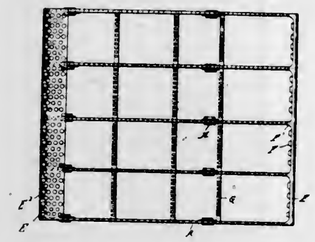
1,343,706. PIPING. CHARLES M. BULLER, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 6, 1917. Serial No. 160,175. 1 Claim. (Cl. 126—309.)



In a device of the class described, a pipe section comprising a one piece blank of bendable sheet material, an elongated tongue portion on each longitudinal edge thereof extending from a point spaced from one end of the blank for a greater portion of its length, one of said tongue portions being in the condition of having been bent outwardly and then folded over the blank to form a U-shaped flange on the outer side thereof, the other tongue portion being in the condition of having been bent in-

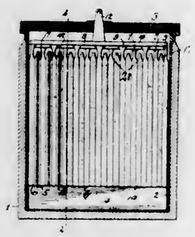
wardly and then folded over the blank to form a U-shaped flange on the inner side thereof, the corners of the closed ends of said U-shaped flanges being substantially angular to provide interlocking means to restrain the medial portion of the longitudinal edges of the blank from the pipe section from outward movement, whereby to prevent the spreading apart of the side edges of the pipe section intermediate its ends, a straight tongue formed on one edge of the pipe section and projecting beyond the longitudinal edge of the adjacent U-shaped flange and being spaced from the adjacent flange by a notched recess, a receiving locking groove formed on the portion of the edge opposite said tongue by folding the portion of the metal thereof backward upon itself and thence outward and spaced from the other portion thereof to form said locking groove, the side edges of said locking groove being inward of the longitudinal plane of the adjacent U-shaped flange and lying within the plane of the interlocking means, said tongue being slidably mounted in said groove to prevent inward movement of the said edges at that end of the pipe, and due to the disposition of said groove adapted to abut against the upper end of the interlockably retaining means of the pipe when moved against it and thereby preventing the inward sliding movement of the joined edges of the pipe.

1,343,707. AIRCRAFT. EDMUND B. CARNS, Detroit, Mich. Filed Nov. 25, 1918. Serial No. 264,007. 12 Claims. (Cl. 244—31.)



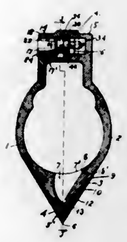
1. In aircraft construction, a frame comprising contour ribs, cross struts and edge strips formed of sheet metal, a spar member passing through alined apertures in said contour ribs, annular bearings surrounding the apertures for said spar member, and cushioning material in said annular bearings.

1,343,708. SEPARATOR FOR STORAGE BATTERIES. RUFUS N. CHAMBERLAIN, Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y., a Corporation of New York. Filed Oct. 21, 1918. Serial No. 259,011. 1 Claim. (Cl. 204—29.)



A separator for storage batteries having the form of an upright plate, the main lower portion of which has its opposite sides arranged substantially parallel and the upper portion of which tapers upwardly toward the upper edge of the plate.

1,343,709. VEHICLE-SHACKLE. EARLE E. CHAPMAN, Los Angeles, Calif. Filed Mar. 22, 1917. Serial No. 156,752. 8 Claims. (Cl. 70—90.)



7. A vehicle shackle for an automobile tire comprising a member fitting over the tread of the tire and extending upwardly and fitting inside the felly of the wheel on which the tire is placed; a projection formed on said member in such a position that it extends radially from the tread of the tire with the device in place; and means for locking said member on said wheel.

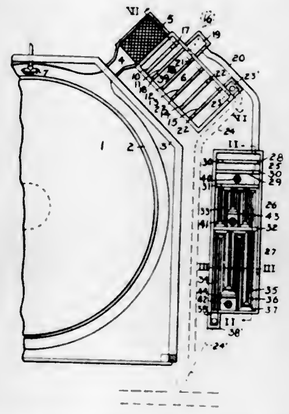
1,343,710. APPARATUS FOR SUPPLYING AND GRADING ABRASIVES TO GLASS-GRINDING MACHINES. JAMES W. CRUIKSHANK, Pittsburgh, Pa., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Filed Nov. 3, 1916. Serial 129,262. 21 Claims. (Cl. 51—11.)

1. In a grinding and smoothing mechanism using an apparatus for supplying and grading with water an abrading material, the combination of a collecting receptacle in position to receive the abradant material and water discharged from the grinding mechanism, said receptacle having at its intake portion a plurality of preliminary grading devices through which the said material passes into said receptacle and which separate and deliver the coarser material into the receptacle, and a secondary grader arranged to receive a constant volume of flow from the preliminary grading devices, substantially as described.

1,343,711. SUPPLYING AND GRADING SAND TO GLASS-GRINDING MACHINES. JAMES W. CRUIKSHANK, Pittsburgh, Pa., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Filed Dec. 18, 1918. Serial No. 267,364. 10 Claims. (Cl. 51—11.)

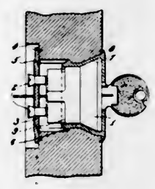
1. In an apparatus for supplying and grading abrading material to glass grinding machines, a preliminary grading pit, a conduit leading the abrasive and water from the grinding apparatus to the pit, an overflow from the pit to a sewer, an outlet from the top of the pit to a secondary grading pit, means for depositing the abrading material in the bottom of the pits, comprising downwardly

extending cross partitions forming channels which open to a common chamber below the partitions through which



the water and abrasive travel in a horizontal direction and through intercommunicating openings in their tops below the water level.

1,343,712. FIXING DEVICE OF CYLINDER-LOCKS. VINCENT JOSEPH MARIE ERAS and HENRICUS JOHANNUS JOSEPHUS MARIA LIES, Dordrecht, Netherlands. Filed Nov. 9, 1918. Serial No. 261,917. 9 Claims. (Cl. 70—46.)



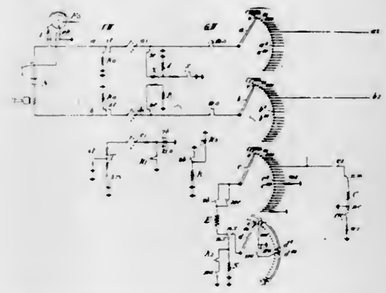
1. In combination, a lock cylinder, a housing fitting around the same, the diameter of the front portion of the housing being greater than that of the rear portion, to form a cone, an outwardly-bent edge at the front face of said housing, adapted to be pressed into the wood of a door on the housing being secured in place thereon, an inwardly extending flanged portion at the opposite end of the housing, means carried by the lock cylinder, for engaging said flanged portion, and means for securing the lock cylinder and housing to a door.

1,343,713. DENTAL MASSAGE AND POLISHING APPLIANCE. CLARENCE W. FULLER, Yonkers, N. Y. Filed Jan. 27, 1920. Serial No. 354,440. 2 Claims. (Cl. 15—39.)



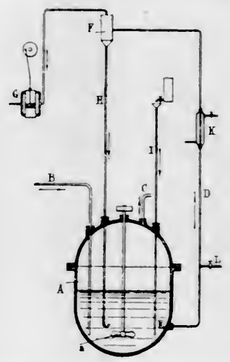
1. A dental massage and polishing appliance comprising, a fabric finger piece open at the back and provided with elastic contracting means, the outer surface of said fabric finger piece being relatively rough for the purpose described, a water-proof lining on the inside of the finger piece in position to be engaged by the inside of the finger when the same is in use.

1,343,714. TELEPHONE SYSTEM. GEORG GRABE, Nikolassee, near Berlin, Germany, assignor to Siemens & Halske, A. G., of Berlin, Germany, a Corporation of Germany. Filed Jan. 14, 1915. Serial No. 2,233. Renewed Nov. 6, 1919. Serial No. 336,232. 10 Claims. (Cl. 179—18.)



1. A telephone exchange system, comprising trunk lines arranged in a plurality of groups, a switch, a driving mechanism therefor, an impulse circuit to set said switch on a desired group of trunk lines, said impulse circuit starting the movement of said switch by means of said driving mechanism, and another circuit to stop said movement once for each impulse in said impulse circuit.

1,343,715. PROCESS FOR THE PREPARATION OF ACETIC ALDEHYDE FROM ACETYLENE. ALFRED GUYOT, Salindres, France, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Salindres, France, a Corporation of France. Filed Apr. 5, 1918. Serial No. 230,765. 6 Claims. (Cl. 23—24.)

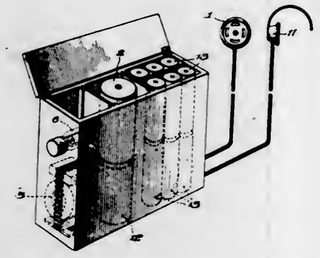


1. A process for the preparation of acetic aldehyde by hydration of acetylene in the presence of a catalyzer, which comprises establishing a continuous circulation of the reaction liquid through a circuit including the reaction chamber, and withdrawing the acetic aldehyde from the reaction liquid during its passage through said circuit and at a point exterior to the reaction chamber.

1,343,716. PROCESS FOR THE PREPARATION OF TRICHLORETHYLENE FROM TETRACHLORETHANE. ALFRED GUYOT, Salindres, France, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Paris, France, a Corporation of France. Filed June 18, 1919. Serial No. 305,177. 3 Claims. (Cl. 23—24.)

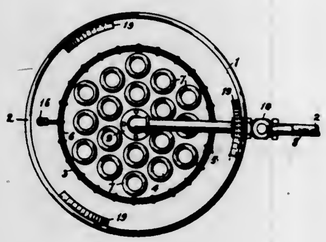
1. A process for the transformation of tetrachlorethane into trichlorethylene which comprises the step of subjecting tetrachlorethane to the action of an aqueous solution of ammonia.

1,343,717. TELEPHONE APPARATUS FOR THE DEAF. EARL C. HANSON, Washington, D. C. Filed June 11, 1919. Serial No. 303,285. 3 Claims. (Cl. 179—107.)



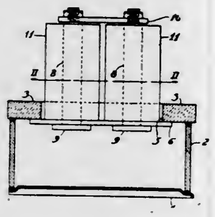
3. The combination, in a telephonic audiphone, comprising a one-way transmission circuit including sound collecting and reproducing devices, of audio-frequency transforming means, and vacuum tube relay means whose input circuit is connected through said transforming means with said collecting device, and whose output circuit is connected with said reproducing device.

1,343,718. AIR-MOISTENER. ROBERT W. HARDIE, White Plains, N. Y., assignor to R. W. Hardie Company, Inc., a Corporation of New York. Filed June 20, 1918. Serial No. 241,080. 3 Claims. (Cl. 237—78.)



1. An air moistener comprising an open-topped water retaining receptacle, means for vaporizing the water in the receptacle, a spreading and radiating plate extending over the top of said receptacle, and means for adjusting the plate vertically relative to the top of the wall of the receptacle.

1,343,719. RELAY. CLINTON O. HARRINGTON, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 17, 1918. Serial No. 229,001. 2 Claims. (Cl. 175—21.)



1. A relay comprising a relatively thick supporting member of insulating material in which the terminal posts are mounted, said member having an aperture therethrough of sufficient size to accommodate the magnet of the relay, a relatively thin metal plate attached to said supporting member and covering the aperture in the latter, the magnet being mounted in said plate with its pole-pieces on one side thereof and its coils on the other side.

1,343,720. METHOD OF MAKING BOLTS. JESSE B. HELLER, Pittsburgh, Pa., assignor to Kerner Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 13, 1916. Serial No. 83,705. 2 Claims. (Cl. 10—27.)



1. In the manufacture of bolts, the steps of forming a relatively small axial opening in the end of a blank of a length approximately equal to the length of the head to be formed, and then forcing a tool into said opening to spread the metal about the opening to form an enlarged head; substantially as described.

1,343,721. EDUCATIONAL DEVICE FOR OBJECTIVE TEACHING. OSCAR HERRMANN, New York, N. Y. Filed Jan. 3, 1920. Serial No. 349,290. 4 Claims. (Cl. 35—9.)



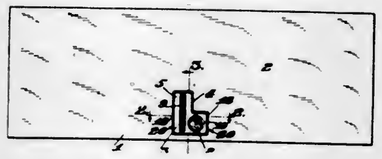
1. An educational device consisting of a suitably sustained supporting horizontal bar, a plurality of disconnected letters suspended from said bar and arranged in alphabetical series lengthwise of said bar, and a plurality of separate connecting links, one linkage for each of a group of said characters, for suspending the characters from the bar, the connecting links being different in construction and distinctive from each other so as to more readily identify the characters by association of the individual character with the separate link by which it is suspended from the supporting bar.

1,343,722. FABRIC-CUTTING DEVICE. GREENE C. HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed Feb. 10, 1919. Serial No. 275,978. 11 Claims. (Cl. 164—73.)



1. A device for severing fabric comprising a pair of rails, a gripping device for the fabric pivotally mounted near one end of said rails and terminating short of the other end, and a cutting device mounted to slide over said rails, and beyond said gripping device.

1,343,723. COUNTER APPARATUS. WALTER E. HOSCH, St. Louis, Mo.; Annie Mae Hosch, administratrix of said Walter E. Hosch, deceased, assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed Feb. 13, 1918. Serial No. 216,954. 5 Claims. (Cl. 211—12.)



3. In apparatus of the class described, the combination of a counter presenting a substantially horizontal surface for supporting goods, and having an opening therein, a cloth measuring machine having a casing with side walls, and fitting said opening, mounted to move through said opening into a depressed position below said counter, said machine having a controlling part for controlling the mechanism of said cloth-measuring machine, disposed in the side wall of said casing, said side wall having a depression receiving said controlling part, whereby the side wall of said casing is unobstructed to permit the free movement of said casing through said opening.

1,343,724. PAPER PACKAGE AND CLOSURE THEREFOR. EDWIN F. HULBERT, South Norwalk, Conn., assignor to National Paper Can Company, South Norwalk, Conn., a Corporation of Delaware. Filed May 23, 1914. Serial No. 840,485. 6 Claims. (Cl. 229—3.)

1. A paper receptacle having an inwardly turned rolled-over end portion comprising at least one complete turn of the material and forming a constricted mouth for the receptacle, there being a space between the layers of said rolled over portion to permit expansion of the inner layer, and a removable friction closure adapted to be forced thereinto to expand the inner layer of the rolled-over portion, to retain the closure in position by the pressure exerted by the rolled-over portion, substantially as described.

1,343,725. PROCESS FOR MANUFACTURING CHROME ALUM. GUSTAF HENRIK HULTMAN, Stockholm, Sweden. Filed Nov. 11, 1919. Serial No. 337,198. 3 Claims. (Cl. 23—13.)

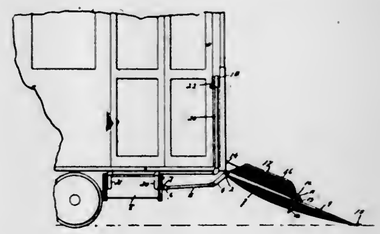
1. Process for manufacturing chrome alum, characterized by the fact that ferro-chrome is dissolved in sulfuric acid and that a soluble potassium salt is added to that solution.

1,343,726. CUP OR BOX. MAX JAKOBSON, New York, N. Y. Filed Feb. 1, 1919. Serial No. 274,418. 2 Claims. (Cl. 229—21.)



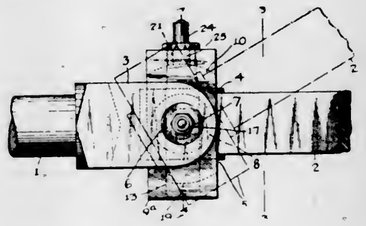
1. As a new article of manufacture, a container comprising a side strip adapted to be formed into a cylinder and having its center line straight in its flattened position, said strip being provided at one end with a slit at right angles to said center line, a tongue at the other end of said strip at right angles to said center line relatively greater in its dimension at right angles to said center line than the length of said slit, and having a reduced neck portion substantially narrower than the length of said slit and forming upper and lower tabs upon said tongue, said tabs having their edges adjacent the body of said strip inclined in diverging lines extending from the said neck to the said portion of said tongue of greater dimension than said slit, and being of equal angular relation to said center line of said strip, said tongue adapted to be engaged with said slit, the engagement of said tongue with said slit permitting relative movement to increase or decrease the diameter of said cylinder, said diverging inclined edges of said tabs adapted to be engaged by the ends of said slit, with a wedge fit of increasing tightness as said cylinder is enlarged to maintain said cylinder against distortion from its cylindrical shape, a circular removable bottom having a diameter corresponding substantially to the interior diameter of said cylinder in its maximum enlarged position, and adapted by engagement with said cylinder to produce and maintain said wedge fit of said tongue and slit, the right angular relation of said tongue and slit to said center line and the equal angular relation of said inclined edges of said tabs to said center line adapted to constantly maintain the cylindrical shape of said strip when said tongue is engaged with said slit, and means adapted to support said bottom at its under side.

1,343,727. CAR-FENDER. OMAR G. JONES, Philadelphia, Pa. Filed Nov. 1, 1919. Serial No. 334,911. 3 Claims. (Cl. 293—9.)



1. A car fender comprising a main section hinged to a car, a secondary section pivoted to the main section, segments carried by the secondary section, flexible members secured to the secondary section and the car and passing over said segments, and means for raising and lowering the fender.

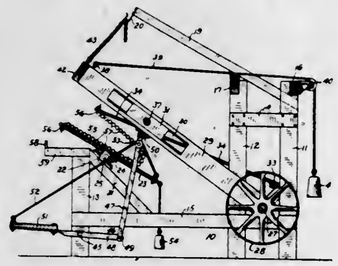
1,343,728. UNIVERSAL JOINT. JOHN C. KOPF, Bellevue borough, Pa. Filed Nov. 20, 1919. Serial No. 339,411. 7 Claims. (Cl. 64—102.)



1. A universal joint comprising two terminal members and an intermediate member pivoted at right angles, char-

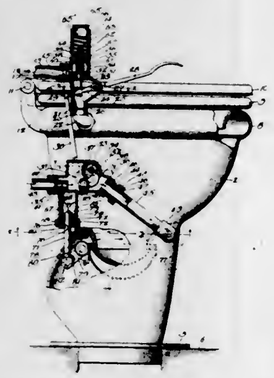
acterized by the intermediate member comprising two parts, each having a pivot portion for engagement with one of the terminal members, which is a fork, said parts being collapsible so as to shorten the distance between said pivot portions whereby the intermediate member can be inserted in and removed from the fork, and a removable pivot connection with the other terminal member which when in place prevents collapsing of said parts and locks the whole in assembly.

1,343,729. MACHINE FOR HARDENING HATS. MICHAEL KRAJNÁH and JOHN MADUNICKY, Danbury, Conn. Filed Dec. 23, 1919. Serial No. 346,877. 15 Claims. (Cl. 223—32.)



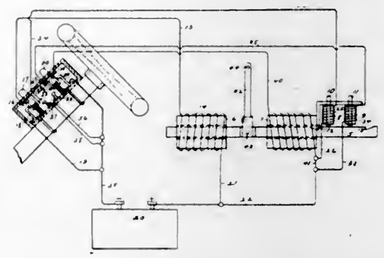
13. In a machine of the character described, a table and a plate, said table pivotally secured and carrying at its front end one end of an apron, said plate carrying at its front end the opposite end of the apron and being pivotally attached to sides in movable oblique bars pivotally carried by a crank shaft mounted on the frame, the oblique bars being adjustably carried by a chain engageable with a hook on an overhead support carried by the frame, the crank arm of said shaft rotatively engaging the lower end of said plate, means for moving the table and plate into operative relation, and means for actuating the crank shaft, whereby the rotary motion of said crank arm imparts a combined reciprocatory and oscillatory movement to the plate, thus operating the apron.

1,343,730. SANITARY CAR-HOPPER. NELSON KROHN, Chicago, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed May 26, 1916. Serial No. 99,951. Renewed June 22, 1918. Serial No. 241,436. 11 Claims. (Cl. 4—17.)



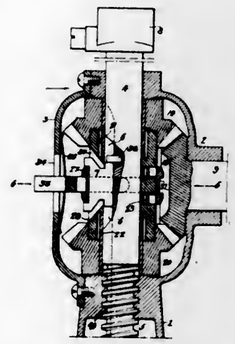
1. The combination with a closet hopper having a bowl portion and a base portion, of means for water-flushing said bowl portion, and means for air flushing said base portion beneath said bowl portion.

1,343,731. ELECTRIC LOCK. JAMES A. KYLE, Salt Lake City, Utah. Filed Oct. 7, 1919. Serial No. 328,997. 4 Claims. (Cl. 70—50.)



2. A lock of the character described comprising a pair of solenoid magnets, a common core for said magnets, a swinging arm by which said core is supported, a pair of horizontal oppositely directed notches formed in the core, a pair of vertical detent solenoid magnets and cores movable in one direction under the influence of the detent magnets and movable by gravity in the other direction to engage in said notches respectively.

1,343,732. LIFTING-JACK. GEORGE O. LEOPOLD, Philadelphia, Pa., assignor to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 23, 1918. Serial No. 218,759. 4 Claims. (Cl. 254—103.)

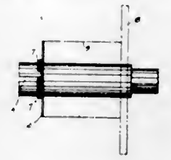


1. The combination in a lifting jack, of a base having a screw threaded opening; a casing mounted on the base; a spindle having a screw threaded portion extending through the threaded opening in the base and extending through the casing; a clutch sleeve mounted on the spindle; a key adapted to a key-way in the spindle so that the spindle will turn with the clutch sleeve but will be free to move longitudinally therein; a gear wheel above and below the sleeve; means for turning said gear wheels, each of said gear wheels having ratchet teeth on its hub; pawls mounted in the clutch sleeve and arranged to engage the ratchet teeth; a shifter; and a shifter sleeve controlling the pawls.

1,343,733. LOCKING DEVICE. JOHN P. LINDEN, Waterbury, Conn., assignor to Waterbury Clock Co., Waterbury Conn., a Corporation. Filed May 29, 1919. Serial No. 300,594. 2 Claims. (Cl. 287—53.)

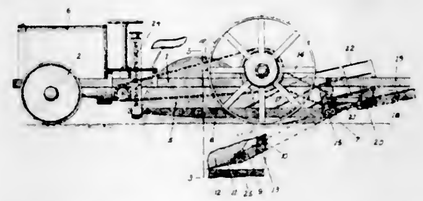
1. The combination with a stud formed at a pre-determined distance from one end with a circumferential locking-groove lying in a plane at a right angle with respect to the axis of the stud, and with a longitudinal slot the extreme inner end or bottom of which intersects the said

groove at opposite points therein, of a non-resilient locking-wire passed transversely through the bottom of the slot and having its projecting ends sharply bent in opposite directions over the corners formed by the intersection



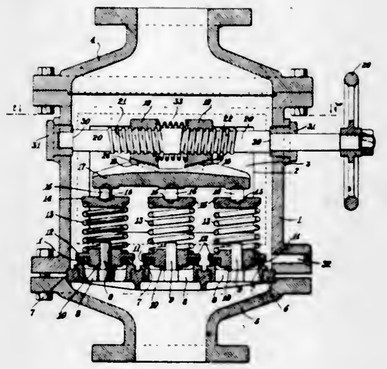
of the groove and slot to form curved arms lying in the bottom of the respective halves of the groove, whereby the wire is held in place therein for the retention of running parts mounted upon the stud.

1,343,734. DITCH-DIGGING MACHINE. FRANK F. LYONS, Stockton, Calif. Filed Mar. 3, 1919. Serial No. 280,278. 2 Claims. (Cl. 37—25.)
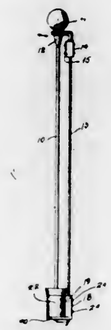


1. A ditch digging machine for peat land comprising a wheel supported frame, a second frame adjustably and pivotally suspended from the first named frame and adapted to be always above the ground level, large cutting disks spaced apart and each independently pivoted in the suspended frame and adapted to extend to the bottom of a ditch, the space therebetween being clear, a horizontal cutting member secured to the latter frame and positioned at the bottom of and between the disks with its cutting edge substantially at right angles to the plane thereof, whereby the sides and bottom of the ditch will be cut to its entire depth at one operation; and means for conveying the dirt from the horizontal cutter.

1,343,735. RELIEF-VALVE. LOUIS E. MACBRYDE, Newark, N. J., assignor to George Snyder, Fostoria, Ohio. Filed Feb. 28, 1919. Serial No. 279,873. 6 Claims. (Cl. 277—46.



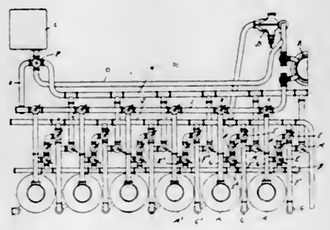
1. In a relief valve, the combination with a body portion, of a transverse plate providing a plurality of valve seats, valves for said seats, springs one for each of said valves normally holding the same seated, a setting plate having a rib with oppositely inclined portions, traveling wedges grooved to receive said inclined portions, and means for moving said wedges.

1,343,736. HATPIN ATTACHMENT. JOHN B. MASERANG, Belleville, Ill. Filed June 17, 1919. Serial No. 304,781. 1 Claim. (Cl. 24—155.)



A hat pin attachment comprising an elastic band adapted to be connected at one end to the head of the pin, a tubular guard adapted to be slipped over the point of the pin, a clip for the other end of the band comprising a body having side wings passing over the edges and against one face of the band and a tab projection at right angles from the end of the body past the wings, a rivet connecting said tab with the end of the tubular guard, and other rivets passing through the body and band and between the wings and through the wall of said guard.

1,343,737. PROCESS OF EXTRACTING SUGAR. LEON NAUDET, Chelles, France. Original application filed Mar. 5, 1914, Serial No. 822,666. Divided and this application filed May 24, 1916. Serial No. 99,477. 7 Claims. (Cl. 127—8.)

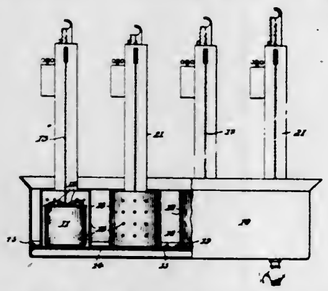


1. In a sugar-extracting process, feeding the juice by successive displacements through a series of cells constituting a single undivided circuit from the point of introduction to the point of passing permanently out from the system, mashing each recharged cell with juice which has passed through the entire extraction series, reheating juice from the cell preceding the mashed cell to a temperature of above 90° C., and displacing the mashing juice thereby.

1,343,738. EGG-TIMER. MARTIN J. NELSON, Rye, N. Y. Filed Nov. 18, 1919. Serial No. 338,912. 5 Claims. (Cl. 53—1.)

2. An attachment for egg timers comprising a plate adapted for seating adjacent the bottom of an egg timer,

a plurality of upright casings upon the plate adapted to receive the vertically movable egg buckets of the timer



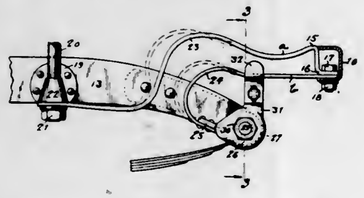
therein, the said plate having openings in substantial alinement with said casings and the casings having a plurality of perforations therethrough.

1,343,739. STAIR STRUCTURE. JOHN T. NESDALL, Brooklyn, N. Y. Filed July 7, 1919. Serial No. 308,919. 12 Claims. (Cl. 189—43.)



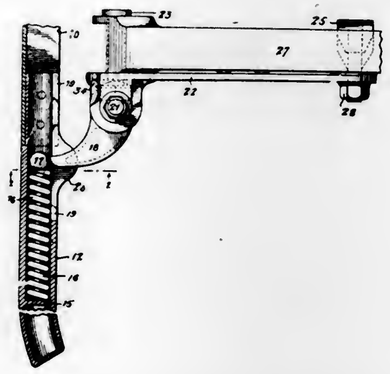
1. A metallic stair including a pair of side stringers having inwardly-extending unit-sustaining sections, and a plurality of associated stair-units securable thereon and comprising, each, a tread-portion and an integral riser-portion, each of these portions being provided with an elongated angular flange of unbroken continuity, but of less dimension in one direction than the longitudinal dimensions of either the tread or the riser-portions, the flange of the tread-portion upstanding therefrom and occupying a position in front of and in engagement with the front face of the proximate riser-portion, and the flange on the riser-portion extending at approximately a right angle therefrom and underlying a section of the tread-portion and also the flange upstanding therefrom.

1,343,740. BUMPER. RICHARD T. NEWTON, New York, N. Y. Filed Dec. 12, 1916. Serial No. 136,475. 24 Claims. (Cl. 293—55.)



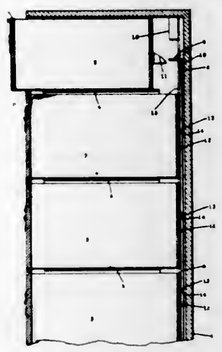
15. An automobile bumper comprising a transverse bumper bar, and a pair of spring arms extending between the same and the chassis, each of said arms comprising a pair of spring straps the forward portions of which are substantially straight and parallel, and the rear portions of which are oppositely bowed to afford flexion in a vertical plane.

1,343,741. AUTOMOBILE-BUFFER. RICHARD T. NEWTON, New York, N. Y. Filed Dec. 23, 1916. Serial No. 138,565. 12 Claims. (Cl. 293—55.)



8. A buffer bar comprising a hollow portion of rounded section having a longitudinal slot, a supporting arm passing through said slot and having a retaining head freely engaged within said portion to afford a sliding engagement therewith.

1,343,742. DRAWER-LOCKING DEVICE. SYDNEY OSTERWEIL, Newark, N. J., assignor to L. Goldsmith & Son, Newark, N. J., a Firm composed of David Osterweil, Nathan Goldsmith, Sydney Osterweil, and Leon Osterweil. Filed May 7, 1917. Serial No. 166,856. 1 Claim. (Cl. 45—94.)



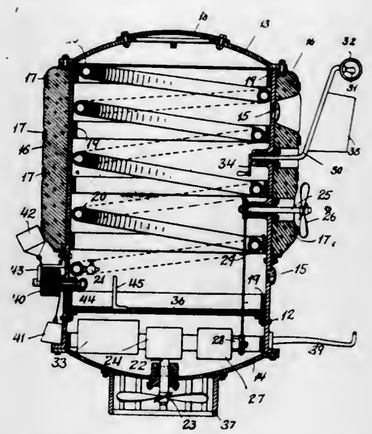
The combination with a compartment and a series of drawers therein, of a locking member comprising a slidable metal rod at the inner ends of said drawers, a portion of said rod being forwardly and then laterally offset adjacent and substantially parallel to the inner end of one of the drawers, said portion of the rod then extending rearwardly and substantially parallel to the main portion thereof, means for slidably supporting said rod within the compartment, said supporting means engaging the rod at opposite sides of said offset portion to prevent rotation of said rod, means on the said one of the drawers to engage said offset portion of the rod to operate the rod, and co-acting means on the other drawers and said rod for locking said other drawers.

1,343,743. AUTOMATIC CLEANING DEVICE FOR SPARK-PLUGS. WILLIAM CECIL OURSLER, Memphis, Tenn., assignor to Sam Rice Oursler, Memphis, Tenn. Filed Oct. 10, 1919. Serial No. 329,761. 2 Claims. (Cl. 123—169.)



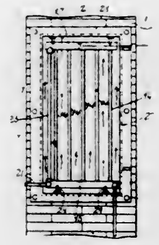
1. In a spark plug having a shell, a portion of insulating material arranged within said shell, a point carried by said portion spaced from the shell, said space forming a spark gap, and a disk working loosely upon said portion of insulating material, the distance between said disk and the shell being greater than the width of the spark gap, said disk being movable upwardly by gas pressure.

1,343,744. DIVING APPARATUS. FREDERICK W. PENDERGAST, Cambridge, Mass. Filed Feb. 27, 1919. Serial No. 279,595. 3 Claims. (Cl. 61—69.)



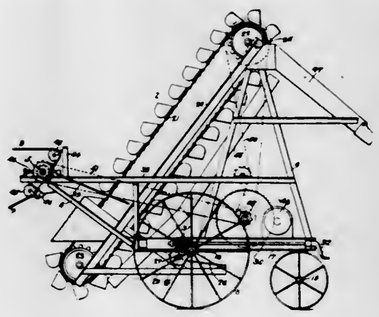
1. A dirigible diving apparatus comprising a fluid-tight shell composed of a cylindrical body and heads at opposite ends of the body, a tubular float surrounding one end portion of the body and arranged relatively to the center of gravity of the shell to maintain the shell with its longitudinal axis vertical, so that one of said heads is at the upper end and the other head at the lower end, the upper head being provided with a man-hole, and with a cover therefor, a vertical shaft journaled in a bearing in the lower head, and provided with a propeller adapted to move the shell vertically in either direction, a horizontal shaft journaled in a bearing in the body between the heads, and provided with a propeller adapted to move the shell horizontally, and steering means composed of an angular rudder-post having an inner horizontal portion journaled in a bearing in the body adjacent to the horizontal shaft bearing, and an outer portion at an angle to the inner portion, and a rudder attached to said outer portion, said steering means being adapted to change the course of the apparatus when it is moving horizontally.

1,343,745. CHIMNEY-HEATER. FREDERICK W. PENDERGAST, Cambridge, Mass. Filed Oct. 11, 1919. Serial No. 329,901. 1 Claim. (Cl. 126—132.)



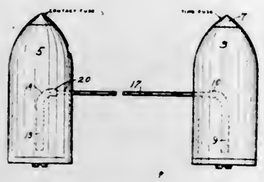
In combination with a chimney having an opening in one side above its lower or intake portion, an attachment comprising a frame surrounding said opening, a movable closure for said frame forming, when closed, a portion of the chimney wall, means attaching the frame to the chimney, and a heat economizing structure attached to and supported by said frame and projecting therefrom into the chimney flue, said structure including a plurality of substantially vertical conduits spaced from each other to permit the passage, between adjacent conduits, of products of combustion from the flue portion of the chimney below the structure, to the flue portion above the structure, and fluid-conducting connections between said conduits, having means for connection with a heat radiator, the space between said conduits being exposed, to permit the cleaning of the conduits, when said closure is displaced.

1,343,746. LOADING APPARATUS. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1919. Serial No. 303,855. 3 Claims. (Cl. 214—93.)



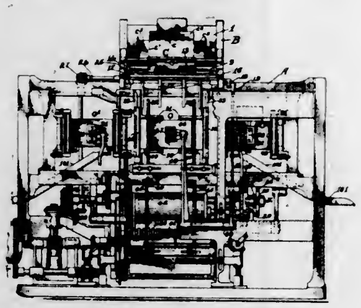
2. The combination in a loading apparatus, of a vertical frame, said frame having horizontal bars fixed to it at a point intermediate of its height and forming an extended elevated supporting structure; an elevator mounted on the frame back of said structure; means for driving the elevator; a shaft mounted in bearings on the extension; means for driving the shaft; two drums loose on the shaft; an intermittent clutch arranged to engage either of the drums; a shifter for the clutch; a rope passing around each drum and passing through a sheave at a point distant from the shaft; an anchor for the sheave; a scraper secured to the rope and arranged to scrape material toward the loader; and a unitary winding drum to which both ends of the rope are connected for shifting the position of said anchor.

1,343,747. PROJECTILE. MICHAEL RADAKOVICH, Milwaukee, Wis. Filed Oct. 25, 1918. Serial No. 259,709. 4 Claims. (Cl. 102—29.)



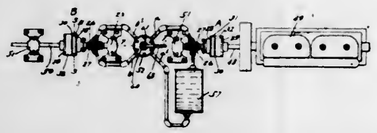
1. A projectile comprising the combination with a set of high explosive shells, of a spacing connection between the shells having its end portions anchored within the rear portions of the respective shells, each shell being provided with an elongated interior chamber within which the anchorage portion of the flexible connection may slide to allow the shells to separate from each other to a distance equal to the sliding movements of the anchorage members after the shells have been discharged from the gun.

1,343,748. BOX-COVERING MACHINE. JAMES D. REIFSNYDER and WILLIAM A. WEIGHTMAN, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 8, 1917. Serial No. 173,516. 15 Claims. (Cl. 93—40.)



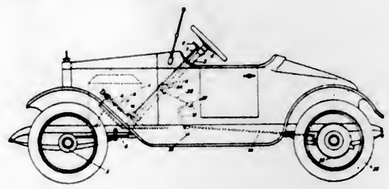
3. In a box covering machine, the combination with means for assembling and applying a cover blank to the exterior walls of a box member, separate mechanisms located one at each side of said means for applying marginal portions of cover blanks to the interior walls of the box members fed thereto, thereby completing the application of the blank to such box members, and means interposed between the assembling and applying means and the aforesaid mechanism for transferring the partially covered box members from said means to such mechanisms.

1,343,749. HYDRAULIC TRANSMISSION MECHANISM. JOHN RETON, Stevens Point, Wis. Filed July 19, 1918. Serial No. 245,642. 10 Claims. (Cl. 60—53.)



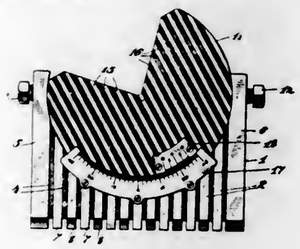
1. A motor of the kind described comprising a spindle, a motor casing revoluble around the axis of said spindle and having an internal annular blade channel, an abutment anchored to said spindle and projecting into said blade channel, a plurality of propeller blades carried by said casing and movable laterally into and out of said blade channel, said spindle having longitudinal oil ducts and said spindle and casing having coöperating ports operating alternately as admission and exhaust ports for connecting said conduits to spaces of said blade channel between said propeller blades and the opposite faces of said abutment.

1,343,750. THROTTLE-CONTROLLING APPARATUS. LEWIS L. SCOTT, St. Louis, Mo., assignor to Standard Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed May 9, 1919. Serial No. 295,838. 12 Claims. (Cl. 74—46.)



1. In a controlling apparatus for an automobile engine, the combination of a throttle valve, means for opening said valve, a brake-controlling member for applying the brake, means for closing the throttle valve, and means for effecting the operation of said last named means when said brake-controlling means is actuated.

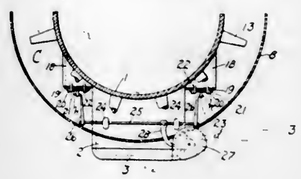
1,343,751. ADJUSTABLE V-BLOCK AND THE LIKE FOR MAGNETIC CHUCKS. FRANK L. SIMMONS, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Mar. 19, 1919. Serial No. 283,578. 17 Claims. (Cl. 175—367.)



1. An attachment for magnetic chucks and the like comprising the combination of a base portion of a plurality of longitudinally extending alternate sheets of magnetizable and non-magnetizable material and a movable work support adjustably mounted upon said base portion and also comprising a plurality of longitudinally extending alternate sheets of magnetizable and non-magnetizable material, with the sheets of magnetizable material in the work support of less thickness than the sheets of non-magnetizable material in the said base portion.

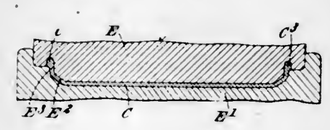
1,343,752. AIR-HEATING FURNACE. FRED A. C. SKINNER, St. Louis, Mo. Filed Jan. 15, 1920. Serial No. 351,544. 3 Claims. (Cl. 126—99.)

1. In an air heating furnace, an inner furnace, an outer casing spaced therefrom and forming an air-circulating chamber therewith, a fuel-charging door leading from the fire-box of the furnace and operating outside the walls of the casing aforesaid, damper-controlled air openings on the furnace walls inside the casing establishing communication between the air-circulating chamber and the space above the fuel in the fire-box, intermediate connections between the fuel-charging door and dampers of the air openings operating through the walls of the casing for uncovering the air openings with an opening move-



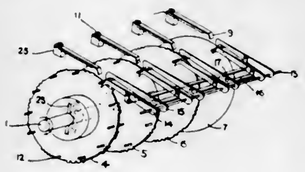
ment of the door, and an air moving apparatus discharging into the air chamber whereby, with an uncovering of the openings aforesaid, air from the air circulating chamber is forced through said openings into the space above the fuel.

1,343,753. BEADED STRIP OF METAL AND THE PROCESS OF ROLLING THE SAME. THOMAS SLOPER, Devizes, England. Filed Apr. 14, 1919. Serial No. 289,817. 4 Claims. (Cl. 80—66.)



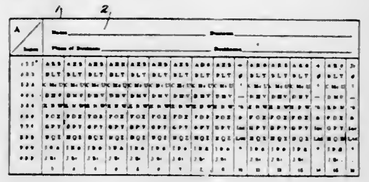
4. The method of producing thickened edges on a metal strip, which comprises bending the strip into channel form having substantially vertical sides, tightly engaging said member throughout the main portion thereof while leaving a portion of the vertical sides free, and then vertically upsetting the free portion of said sides to simultaneously decrease the height thereof and increase the thickness, substantially as described.

1,343,754. APPARATUS FOR TEACHING CODES AS USED IN TELEGRAPHY. CECIL ROBERT WOODLAND and REGINALD WOODLAND, Liverpool, England. Filed July 5, 1919. Serial No. 308,839. 15 Claims. (Cl. 178—115.)



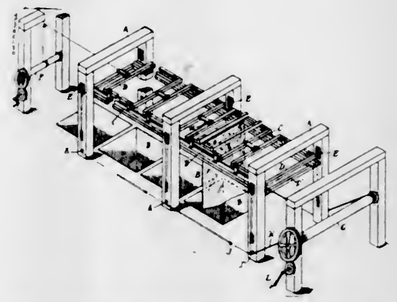
1. An apparatus for producing electric impulses representing a series of characters according to a code, comprising a plurality of disks, contact operating members carried by said disks, a receiving instrument, contacts in the electric circuit of said instrument, said contact operating members being adapted to close the contacts in the circuit of the receiving instrument, a shaft upon which said disks are loosely mounted, means for continuously rotating said shaft, frictional driving means between the shaft and disks for rotating the disks, and means for controlling the movement thereof so that they move successively through predetermined portions of a revolution, and after one disk has moved through the required portion of a revolution, to transmit a certain number of impulses, the next disk performs a similar operation.

1,343,755. MEANS EMPLOYED IN THE CLASSIFICATION OF NAMES, &c. JOSEPH P. WOODS, Washington, D. C. Filed Sept. 30, 1919. Serial No. 327,443. 11 Claims. (Cl. 283—41.)



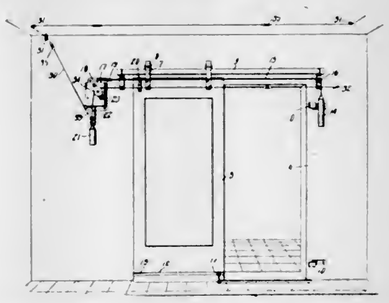
1. A card or sheet of the character described having a series of columns of characters arranged in consecutive delineated fields and adapted to be punched to spell a name, each delineated field including a character adapted to be punched to indicate a termination of the complete spelling of the name therein.

1,343,756. TANNING MACHINERY. JAMES WRIGHT, Liverpool, and JOHN WRIGHT, Warrington, England. Filed Apr. 15, 1919. Serial No. 290,154. 5 Claims. (Cl. 212—73.)



1. The improvements in tanning machinery which consists in a series of supports placed over a line of tan pits, a line of rails suspended over the said tan pits from said supports, trolleys on said rails carrying cross-pieces and means for raising and lowering the line of rails and trolleys and for moving the trolleys forward.

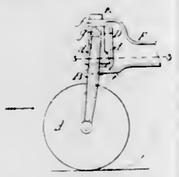
1,343,757. FIRE-DOOR-CLOSING APPARATUS. LAWRENCE S. AKERS, Memphis, Tenn. Filed Apr. 23, 1918, Serial No. 230,360. Renewed May 12, 1920. Serial No. 380,884. 1 Claim. (Cl. 189—49.)



An apparatus for operating a fire door comprising a tension mechanism, a swinging latch, means connected

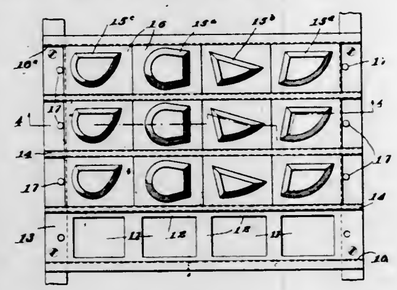
with the latch adapted to hold the tension mechanism inoperative, a spring-pressed detent adapted to lock the latch, a weight connected with the detent capable when released of moving the detent against the tension of the spring to unlock the latch, and means holding the weight normally inoperative adapted when affected by heat to release said weight.

1,343,758. WHEEL-CASTER. HERBERT AUSTIN, Bromsgrove, England. Filed May 10, 1919. Serial No. 296,140. 3 Claims. (Cl. 16—4.)



2. The combination, in a caster, of a member which can turn about the vertical caster axis, a bracket in which the caster wheel is pivoted, said bracket pivoted by a horizontal pivot axis, at a point above the wheel axis, to said member which can turn about the caster axis, and stops to limit the vibrations of said bracket about its horizontal pivot axis in either direction.

1,343,759. APPARATUS FOR CUTTING HEEL-LIFTS. GEORGE BASLER, Brockton, Mass., assignor to Harry W. Becker, Brockton, Mass. Filed Oct. 2, 1918. Serial No. 256,574. 3 Claims. (Cl. 164—29.)



1. Apparatus of the kind described, comprising a grid frame having on its upper side slide ways formed to engage and hold the bases of dies fitted therein, and a series of dies slidably fitted in said slide ways, and means fitted for slidable removal to the under side of said grid frame for receiving and holding segregated the lifts cut by the respective dies.

1,343,760. SANITARY CLOSURE FOR BOTTLES. CONRAD WALTER BORGNER, Lowville, N. Y. Filed Feb. 28, 1919. Serial No. 279,697. 2 Claims. (Cl. 215—9.)



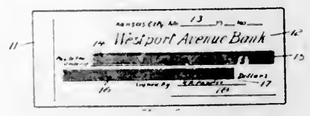
1. A closure for milk and other bottles, comprising a portion with a central annular opening with an upturned edge, which rests upon the seat within the neck of a bottle, an inverted cup section, the marginal edge of which interlocks with said upturned edge and holds the closure to its seat.

1,343,761. DIRECTION-INDICATOR FOR VEHICLES. FRANK F. BRENDLE, Salina, Kans., assignor of one-third to Roy C. Carruthers and one-third to Myrtle Carruthers, Salina, Kans. Filed Nov. 26, 1919. Serial No. 340,951. 4 Claims. (Cl. 116—41.)



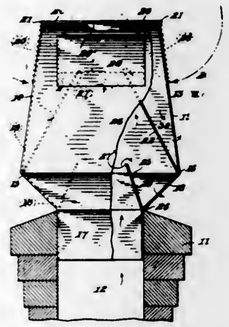
1. A vehicle signal, including a cylinder having an inlet port, a piston working in said cylinder, a rod extending from the piston having a way formed therein and communicating with the cylinder, a whistle arranged in said way, and a collapsible signal carried on said rod.

1,343,762. BANK-CHECK. CLIFFORD CHURCHILL, Kansas City, Mo. Filed Aug. 7, 1919. Serial No. 315,957. 2 Claims. (Cl. 282—27.)



1. An article of the class described comprising an original and a duplicate document superposed, the duplicate document being milled or roughened where the evidence of value is to be impressed and a transferring element between the original document and the milled portions of the duplicate document, whereby matter imprinted on the original document will be transferred to the milled portion of the duplicate document.

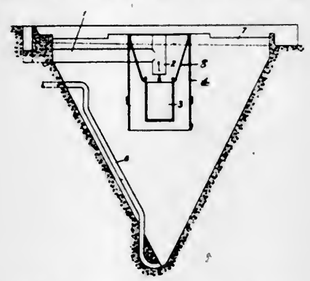
1,343,763. BACK-DRAFT-PREVENTING CHIMNEY-COWL. MICHAEL CIACCIA, Albany, N. Y. Filed Oct. 29, 1919. Serial No. 334,283. 5 Claims. (Cl. 98—4.)



5. A chimney cowl comprising a casing having an enlarged waist line dividing the cowl into upper and lower sections, with said sections having openings therein positioned above each other in opposite walls of the casing, inwardly and upwardly inclined partitions within the casing with their lower ends mounted adjacent the waist line thereof forming opposite pockets inwardly of the upper ones of said openings, similar inwardly projecting partitions within the casing mounted adjacent the lower end of the lower section forming pockets inwardly of the lower openings, the said pairs of partitions forming contracted throats within the casing in the path of travel of

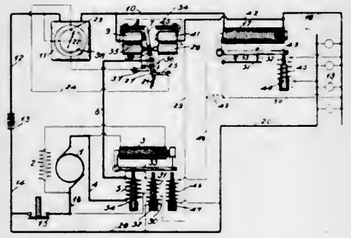
products of combustion therethrough, a neck carried by the lower end of the lower section adapted for seating within a chimney flue, the opposite sides of the upper section of the cowl which are unprovided with said openings having outlet openings adjacent the upper ends of the partitions of the upper section, adjustable closure means for the open top of the cowl, removable hoods for the said outlet openings carried by the opposite sides of the upper section whereby the outlet openings or the open top of the upper section are adapted for exhausting the products of combustion therethrough at will.

1,343,764. SEPARATION AND SETTLEMENT OF SOLIDS AND MATTERS FROM SEWAGE AND OTHER LIQUIDS. WILLIAM CLIFFORD OXLEY, Wolverhampton, England, assignor to Jones & Attwood Limited, Amblecote, Stafford, England. Filed Mar. 27, 1918. Serial No. 225,050. 2 Claims. (Cl. 210—6.)



1. A settling tank, an inflow pipe, a guard about the delivery end of said pipe and comprising a cylindrical casing of uniform diameter throughout with open ends above and below said inflow pipe, and a vessel closed at bottom and open at top arranged centrally within and wholly above the lower end of the guard, the inflow pipe directing the material into the open end of said vessel.

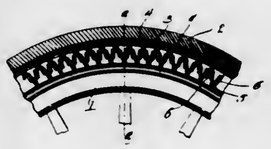
1,343,765. ELECTRIC SYSTEM. JOHN L. CREVELING, Tucson, Ariz., assignor to Gould Coupler Company, a Corporation of New York. Filed Feb. 9, 1920. Serial No. 357,477. 21 Claims. (Cl. 171—313.)



1. The combination with a source of electrical potential difference, a storage battery circuit and a translating circuit, of means for connecting the source under certain conditions with the battery circuit and under other conditions with the translating circuit, and means whereby activity of the source prevents operation of said connecting means.

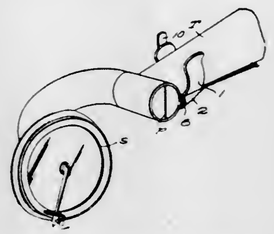
17. The combination with a controllable source of electrical potential difference, a storage battery circuit and a translating circuit, and means for connecting the source under certain conditions with the battery circuit and under other conditions with the translating circuit, of a regulator for the source, current responsive means adapted to control said regulator to prevent excess of a predetermined maximum current in a circuit supplied by the source, voltage responsive means ineffective during charging of the battery and adapted to affect the regulator to prevent the voltage of the source exceeding a predetermined limit above the voltage necessary to charge the battery, and voltage responsive means across the translating circuit adapted to operate said regulator to limit the voltage impressed upon the translating circuit by said source.

1,343,766. RESILIENT TIRE. ALONZO A. CULBERTSON, Topeka, Kans. Filed Oct. 22, 1918. Serial No. 259,221. 1 Claim. (Cl. 152—8.)



A spring tire comprising an outer casing, an endless coil spring arranged in said casing, and a sectional shield disposed within the casing and between the latter and the endless coil spring, each section of said shield comprising a plate beveled at its forward and rear edges and mounted upon said spring with its rear beveled edge overlapped by the forward beveled edge of the succeeding plate, each plate having portions struck inwardly therefrom and bent to provide hooks one adjacent to and facing inwardly from each of said beveled edges, and engaging a coil of said spring for securing said plate thereto, the hooks adapted by their abutment with the beveled edges of adjacent plates to limit longitudinal movement of the plates during the contraction or expansion of the coiled spring.

1,343,767. PHONOGRAPH-LAMP ATTACHMENT. ROBERT L. CUZEN, Plainfield, N. J. Filed Sept. 10, 1917. Serial No. 190,634. 1 Claim. (Cl. 240—2.)

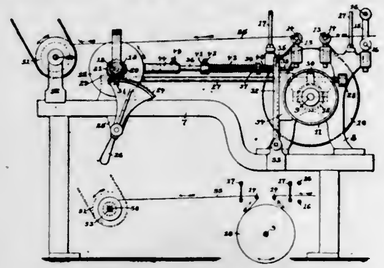


An attachment of the character described including an electric lamp socket, an insulating band secured thereto, a substantially U-shaped spring bracket attachable to the tone arm of a phonograph and having the web portion secured to the socket, a lamp fitted in the socket, and a substantially L-shaped spring circuit closing arm secured at one end to the insulator at a point diametrically opposite the bracket and having its opposite terminal extended vertically in proximity to and movable into contact with one of the arms of the U-shaped bracket.

1,343,768. BOBBIN-WINDING MACHINE. JOHN DALBY, Pawtucket, R. I. Filed Feb. 15, 1919. Serial No. 277,200. 6 Claims. (Cl. 242—156.)

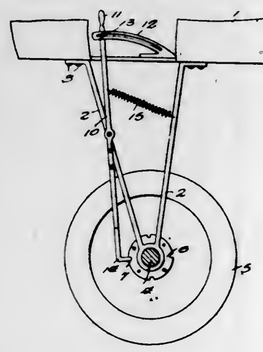
1. In a machine for winding the bobbins of lace looms, a bed, a shaft rotatably supported on the bed, a tension drum secured to the shaft, a brake drum secured to the shaft, a brake lever pivotally secured to the bed and having a brake shoe frictionally engaging the brake drum, a

cam shaft rotatably supported on the bed, a cam secured to the cam shaft, means operatively connecting the cam
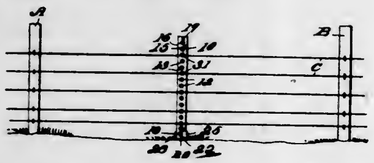


with the brake lever whereby the brake shoe exerts a gradually diminishing frictional resistance on the brake drum and mans for reversing the cam.

1,343,769. AEROPLANE-BRAKE. GLENN L. DAVIS, Burrton, Kans. Filed June 17, 1918. Serial No. 240,388. 2 Claims. (Cl. 244—2.)



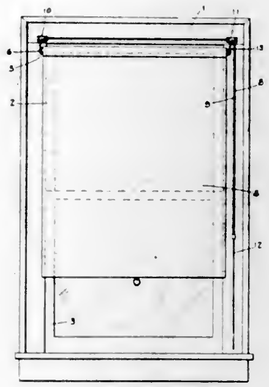
1. The combination with the fuselage and wheel mounted landing gear of an aeroplane, a lever pivotally supported in the landing gear provided with a bifucated lower terminal, the bifurcations of the lever being extended adjacent to and directed angularly for engagement with the wheels to lock the latter against rotation, the opposite terminal of the lever constituting a handle being extended into the fuselage, means to lock the lever in operative or inoperative positions, and means normally retaining the lever in operative position.

1,343,770. WIRE-FENCE STAY. JOSEPH E. EATON, San Francisco, Calif. Filed May 16, 1919. Serial No. 297,446. 1 Claim. (Cl. 256—54.)



A composite fence stay comprising a wooden bar having a series of recesses sunk at intervals along one face and transverse bolt holes extending from the bottoms of said recesses to its other face, a struck-out metal plate adapted to cover the recessed face of said bar and provided with a series of holes adapted to register with said recesses, and bolts adapted to said bolt holes and provided with hooked heads adapted to engage and crimp fence wires within said registering holes and recesses and with nuts at their tail ends adapted to hold the parts together.

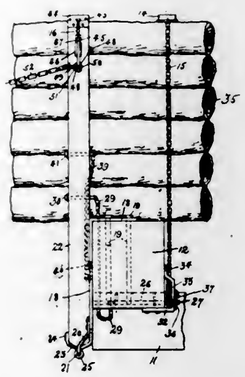
1,343,771. WINDOW-SHADE HANGER. WILLIAM H. FORSE, Jr., Anderson, Ind. Filed Nov. 1, 1918. Serial No. 260,692. 2 Claims. (Cl. 156—27.)



1. A window shade hanger, including a non-rotatable body portion, a rotatable body portion having a central opening, and tongues integral with the non-rotating member and extending through the opening in the rotatable member for pivoting said members together.

2. A window shade hanger, including a non-rotatable body portion, a rotatable body portion having a central opening, a plurality of tongues formed by striking out parts of the non-rotatable member, said tongue projecting through the opening of the rotatable body portion and bent outwardly along the inner face of the rotatable body portion for holding said two members in pivotal engagement with each other.

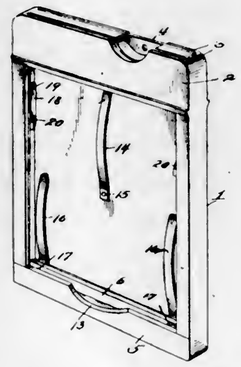
1,343,772. LOGGING CAR OR SLEIGH. AUGUSTE GENDREAU, Bemidji, Minn., assignor of one-half to Telesphore Beaudette, Bemidji, Minn. Filed Oct. 9, 1918. Serial No. 257,487. 4 Claims. (Cl. 280—145.)



1. In a vehicle for hauling logs, a platform, a plurality of bunks in spaced relation transversely of the platform,

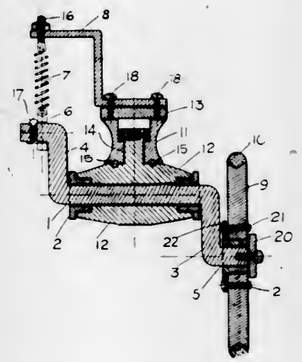
a log supporting stationary post rising from the platform at one side adjacent to each bunk, a movable post swingingly connected relatively to each of said bunks, a trip hook at the upper end of each movable post, a flexible element connected to each stationary post and adapted to be engaged respectively by said trip hooks, a second flexible element connected at one end to each stationary post, a release pin carried by each bunk, and adapted to be releasably engaged respectively by the last mentioned flexible element, means between the release pins and the movable posts whereby the downward movement of the movable posts withdraws the pins and releases the flexible element engaged thereby, and means for limiting the downward movement of the movable posts.

1,343,773. PLATE-HOLDER FOR PHOTOGRAPHIC CAMERAS. JOSEPH GODDARD, Rochester, N. Y., assignor to Seneca Camera Mfg. Co., Rochester, N. Y., a Corporation of New York. Filed Feb. 19, 1919. Serial No. 278,035. 6 Claims. (Cl. 95—68.)



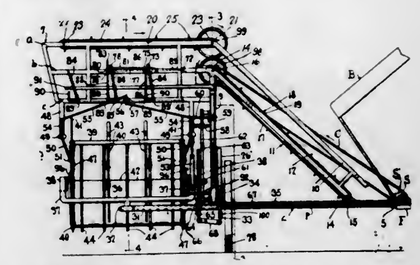
1. A photographic plate holder comprising a plate compartment, upper and lower ledges adapted to overlap the upper and lower ends of a sensitized plate and thus position the plate, one of said ledges being retractile, and a spring movable with said retractile ledge and operative on one of the surfaces of the sensitized plate to press the sensitized plate against the retractile ledge.

1,343,774. SHOCK-ABSORBING WHEEL. EDWIN J. GOULD, Fruitvale, Calif. Filed Nov. 27, 1918. Serial No. 264,445. 5 Claims. (Cl. 280—96.2.)



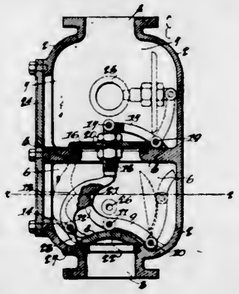
5. In a shock absorbing wheel, an axle having one more bearing than the wheel bearing and suitable boxing thereon, an upright pin rigid with said boxing, thrust bearing on said boxing, a securing nut on said pin and the whole adapted to have a hinge or knuckle movement for steering.

1,343,775. SHOCKER. CHARLES H. GROVES, Beaumont, Tex. Filed June 25, 1918. Serial No. 241,849. 3 Claims. (Cl. 56—422.)



1. In a grain shocker, a frame adapted to receive bundles, swinging sides hinged to said frame, shafts at the sides of said frame, cranks on said shafts engaged with said sides, and means for rocking said shafts simultaneously in opposite directions.

1,343,776. DRY-PIPE VALVE FOR SPRINKLER SYSTEMS. ERNEST G. HARRIS, North Vancouver, British Columbia, Canada. Filed Sept. 16, 1919. Serial No. 324,170. 2 Claims. (Cl. 169—21.)



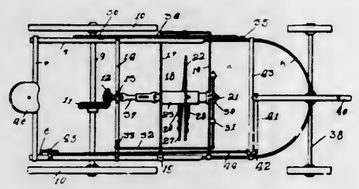
1. A dry valve for a sprinkler system, comprising a casing, one end of which is connectible with the water main and the opposite end of which is alapted for being joined with the sprinkler pipes, a valve within the casing seating from above to close the water pipe connection, another valve of larger area than the first mentioned valve seating from above to close the water passage to the sprinklers, each of the said valves being so pivoted to the casing so as to open clear of the through passage between the water inlet and the outlet to the sprinkler pipes and a single tripping lever interposed between and having engagement with the two halves, when at their closed position, whereby a less pressure on the valve of larger area maintains the tripping lever in engagement with the other valve and holds the other valve closed against a greater pressure, the said lever being adapted, when at its released position, to prevent automatic closing of the last mentioned valve after it has been opened

---

1,343,777. COTTON-CHOPPER. GRANVILLE M. HART and JAMES EDGAR WALL, Plano, Tex. Filed Nov. 28, 1919. Serial No. 341,295. 2 Claims. (Cl. 97—46.)

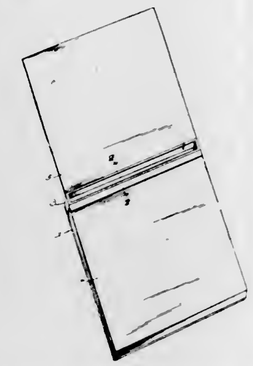
1. In a cotton chopper including a main frame, an auxiliary frame supported by the main frame, a hub supported by the auxiliary frame, said hub having a longitudinal bore and having a slot in communication with

the bore, a shaft supported within the bore and having a slot registering with the slot of the hub, a chopping element having spaced ends, supported by the hub, an arm extending through the shaft and having a right angled



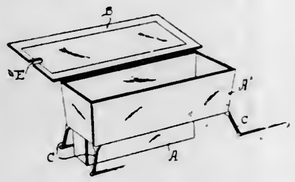
portion secured to one of the ends of the cutting blades for moving one end of the cutting blade with relation to the opposite end thereof, means for rotating the cutting blade, and means for moving the arm.

1,343,778. TABLET. CASWELL V. HAYS, Dillon, S. C. Filed Feb. 12, 1919. Serial No. 276,535. 1 Claim. (Cl. 281—15.)



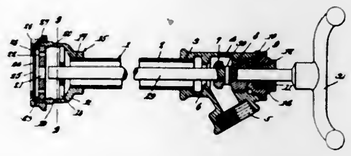
As a new article of manufacture, the combination with a stiffened back and a plurality of superposed sheets mounted thereon, of a box secured to the said back and against one end of the superposed sheets, the box being open on that face lying in the plane of the uppermost sheet, and a cover flap having means for securing it to the back and to the box, whereby the cover flap may be folded down against the uppermost sheet to close the box or thrown back to expose the sheet and open the box, the box being adapted to receive a pen or pencil.

1,343,779. STERILIZING-PAN. CLARENCE C. HERBERT, Lincoln, Nebr. Filed Aug. 12, 1919. Serial No. 317,078. 1 Claim. (Cl. 220—1.)



An electric sterilizer comprising a receptacle having a wall portion projecting from the bottom thereof and adapted to contain a heater, and a tray adapted to be disposed in said receptacle, the ends of said tray being upwardly extended and turned into a hook shaped portion.

1,343,780. SPRAY-GUN. ARTHUR B. HULL, Gasport, N. Y. Filed Sept. 1, 1917. Serial No. 189,387. 1 Claim. (Cl. 299—116.)



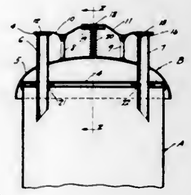
A spray gun comprising a barrel provided with an inlet; a head on the barrel and including an outer disk having an aperture, and an inner disk having an opening alined with the aperture, the inner disk being supplied with discharge ports located about the opening; a seat in the barrel in advance of the inlet; a stem accessible from the exterior of the barrel and movable longitudinally in the barrel, the forward end of the stem constituting a closure for the opening; a valve on the stem and coacting with the seat, the barrel and the valve being provided with interengaging elements which coöperate to impart a longitudinal movement to the stem when the stem is rotated; and means for securing the valve to the stem.

1,343,781. WEDGE FASTENER FOR TOOL-HANDLES. JOHN SPENCER JOHNSTON, Etiwanda, Calif. Filed Mar. 18, 1919. Serial No. 283,394. 1 Claim. (Cl. 287—32.)



A holding device formed of a strip having a lateral offset at one end and laterally directed spurs at the other end and bent upon itself intermediate the ends with the material of the strip curved at the bend to form an enlargement, whereby when inserted in the handle receiving aperture of a tool the lateral offset and the enlargement will bear over the body of the tool at the ends of the aperture and coact to prevent displacement of the handle when forced into the aperture in engagement with the holding device.

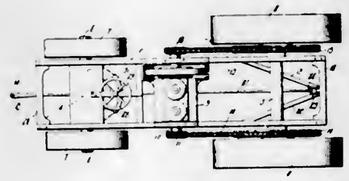
1,343,782. CAN CAP AND SEAL. JOHN W. KERR, Los Angeles, Calif. Filed Nov. 12, 1919. Serial No. 337,532. 2 Claims. (Cl. 221—23.)



1. A device of the class described comprising a cup adapted to be disposed over the lid of a can, puncture

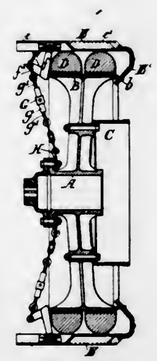
tubes therein at diametrically opposite points, rock arms having valves at the ends thereof to close said tubes, means tending to hold said rock arms with the valves in closed position, said arms being provided with means for simultaneously rocking the latter to open said valves.

1,343,783. TRACTOR. CHARLES H. KUGLER, Cozad, Nebr. Filed Jan. 22, 1916. Serial No. 73,653. 1 Claim. (Cl. 180—14.)



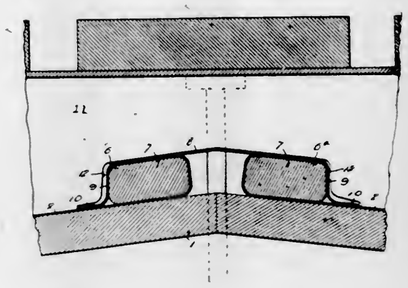
A tractor of the class described comprising a frame, drive wheels supported upon the front of said frame, steering means supporting the rear of said frame, a draw-head carried by the front end of said frame and located intermediate the sides thereof, draft means adjustably connected to said draw-head and extending longitudinally of said frame throughout the entire length thereof, a plurality of converging braces secured at their forward ends to the lower end of said draw-head and provided with rearwardly extending rear ends fitting snugly against and secured to the bottom of said frame for firmly bracing said draw-head, and driving means mounted upon said frame.

1,343,784. DETACHABLE TREAD FOR WHEELS AND IN MEANS OF FIXING SAME. ERNEST JOHN LEEDING and ALFRED ARNOLD REMINGTON, Birmingham, England. Filed Oct. 17, 1916. Serial No. 126,145. 3 Claims. (Cl. 152—2.)



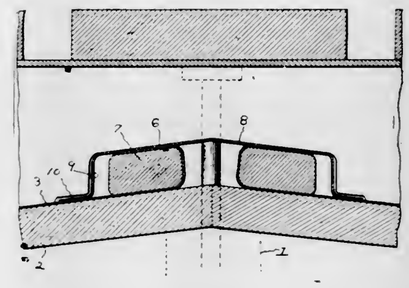
1. The combination of a wheel, a tire surrounding the rim thereof, detachable treads each of which is formed with an end turned back in an inclined direction which passes within the rim, and means whereby the other ends of the treads are drawn toward the axis of the wheel, the treads drawn transversely across the rim and the inclined turned-back ends pressed tightly against the edge of the rim for the purpose set forth.

1,343,785. CAR-ROOF. WALTER P. MURPHY, Chicago, Ill. Filed Jan. 29, 1919. Serial No. 273,823. 21 Claims. (Cl. 108—5.)



1. In a car, a roof including a sheathing, a ridge cap, and metal roof sheets mounted on said sheathing and free to pivot at their ridge corners on the ridge cap.

1,343,786. CAR-ROOF. WALTER P. MURPHY, Chicago, Ill. Filed Jan. 29, 1919. Serial No. 273,824. 4 Claims. (Cl. 108—5.)

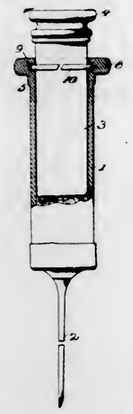


1. In a car, a roof including a sheathing, metal plates bodily movably mounted on said sheathing and spaced apart at the ridge and along their side marginal edges, a mullion between adjacent sheets, a seam cap over said mullions and side edges of the plates, the side edges of the plates having play between the mullions and caps, said caps being provided with an end wall at their eaves end, which constitutes a stop to limit their outward movement of the plates, clips secured to the side wall structure of the car and projecting upwardly and inwardly over said seam caps, the end wall of the seam caps constituting pivot points for the plates, an open return bend at the ridge end of the plates overlying and spaced from the upper face of the plates, a filler secured in said bend and extending therein approximately the width of the plate, a ridge cap overlying the ridge end of the plate and said filler, side flanges on said ridge cap extending downward to the plate; said bend and filler being loosely confined within the ridge cap and spaced from the said side flange by means of said stop.

1,343,787. SYRINGE. EWELL NEIL, Nashville, Tenn. Filed June 7, 1919. Serial No. 302,385. 3 Claims. (Cl. 128—218.)

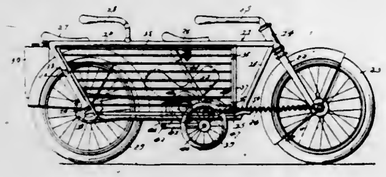
1. A syringe including a barrel formed with a circumferential groove in its inner surface near one end, a plunger adapted for movement in said barrel adjacent said groove, and a spring loosely fitted in said groove and adapted to grip said plunger to prevent accidental move-

ment of the plunger in the barrel, said groove being of sufficient depth to permit expansion of said spring when



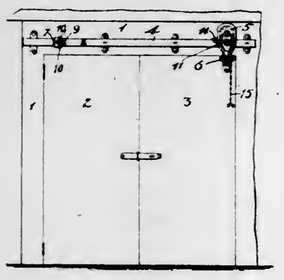
the plunger is inserted and said spring being of such diameter as to insure its being retained in said groove when the plunger is withdrawn.

1,343,788. MOTORCYCLE. FASIFFO J. ONAR, Council, Ark. Filed Jan. 3, 1920. Serial No. 349,274. 5 Claims. (Cl. 180—33.)



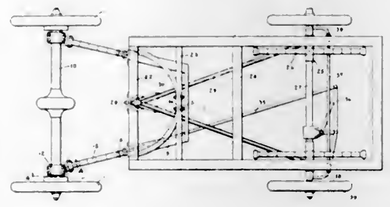
1. A vehicle of the type described having upper and lower substantially parallel frame members inclosing a space constituting a luggage compartment and having the steering, driving and supporting members mounted thereon, and side guards bounding said compartment in the intervals between said frame members, one of said guards being movable to give access thereto.

1,343,789. SWIVEL-HANGER FOR DOORS. THOMAS V. PLICE, Ashland, Ohio, assignor to The Topping Manufacturing Co., Ashland, Ohio, a Corporation of Ohio. Filed Feb. 12, 1920. Serial No. 358,035. 4 Claims. (Cl. 16—7.)



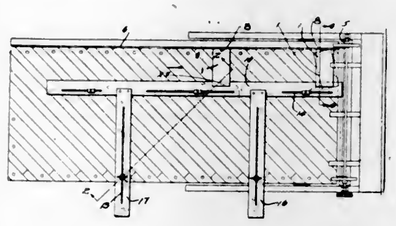
4. In a door support of the type comprising a fixed supporting track and a door hanger designed to ride thereon, a stop on said track, said door hanger comprising a bracket arranged to be secured to a door, a frame carrying a wheel designed to run on said track, a swivel connection between said frame and said bracket, a latch carried by the wheel carrying frame arranged to interlock with said stop on said track when the door to which the hanger is attached is open, said stop being adjustable on said track, said latch being arranged to engage said stop in its various positions of adjustment, the connection between said frame and bracket being in the form of a swivel.

1,343,790. TRAILER FOR MOTOR-DRIVEN VEHICLES. THEODORE SANDSTROM, Indianapolis, Ind. Filed Feb. 25, 1919. Serial No. 279,041. 3 Claims. (Cl. 280—33.1.)



1. The combination with a vehicle, of a trailer including a body, an axle for supporting the rear end of the body, steering wheels carrying said axle, a frame coupled with the rear axle of the vehicle near each rear wheel thereof and pivotally connected to the front part of the body of the trailer and arranged so as to support the same, and steering means connected with one side of said coupling frame and extending back to the steering wheels for automatically steering them so as to cause them to follow in track with said vehicle.

1,343,791. SHEET-GUIDE FOR FOLDING-MACHINES. EDWARD SCHEICK, Arlington, N. J. Filed Dec. 16, 1919. Serial No. 345,359. 6 Claims. (Cl. 271—52.)

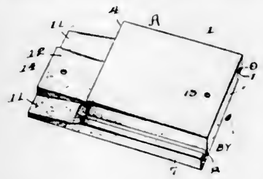


2. In a device of the character described a friction bar adapted to hold one edge of a strip of paper in spaced relation to a feed mechanism, rotatably mounted on a feed table, the said bar having a plurality of arms extending laterally of the table, and means connecting said arms with the table for obtaining adjustment of such friction bar laterally of the table.

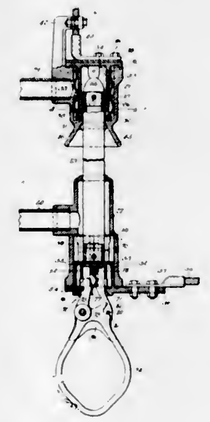
1,343,792. SHINGLE. FRED SCHMITTE, Clayton, N. Y. Filed July 24, 1917. Serial No. 182,429. 1 Claim. (Cl. 108—10.)

A concrete shingle, the exposed portion of which is plain and smooth and rectangular in form, the shingle being provided with vertical edges which are in the form

of a tongue and groove extending in opposite directions on the two edges, tapering reduced portions and an intermediate longitudinal rib on the upper edge, an inwardly extending lug at the extreme upper end, and the shingle having a recess on the under side.



1,343,793. SWITCH. JOHN SCHNEIDER, Elizabeth, N. J. Filed Jan. 15, 1919. Serial No. 271,248. 7 Claims. (Cl. 200—48.)

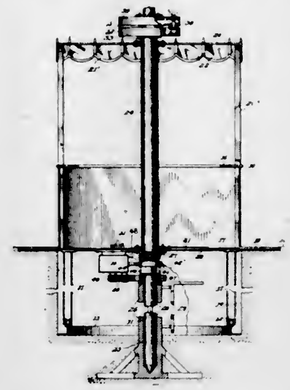


4. A switch, comprising alined casings spaced apart, a plunger slidable in one casing and adapted to pass into the other casing, multiple spring pressed contacts held in the said casings and adapted to engage the plunger, caps on the said casings and provided with conductors attached to the members of the said multiple contacts, terminals on the said caps, a bracket on one end of the plunger, and a loop fulcrumed on the said bracket and having a catch adapted to engage the corresponding casing to lock the plunger in closed position.

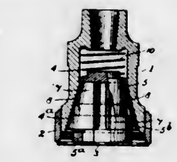
1,343,794. REVOLVING VENDING-BOOTH. GEORGI SEVCZOV, Ralphton, Pa. Filed July 31, 1919. Serial No. 314,498. 2 Claims. (Cl. 211—20.)

1. In combination with a revolving booth, a journaled upright shaft secured axially through the booth, a cup upon the top of the shaft above the booth, a bearing roller carried by the cup electrically connected to the shaft, an electric motor secured to the bottom of the booth, electric connections between the shaft and motor, a fixed gear operatively connected to the motor, a ring carried by the gear, wiping electrical connections between said ring and motor, and line wires in electrical connection with said ring and the roller.

2. In combination with a revolving booth, a journaled upright shaft secured axially through the booth, a cup upon the top of the shaft above the booth, a bearing roller carried by the cup electrically connected to the shaft, an electric motor secured to the bottom of the booth, electrical connections between the shaft and motor, a fixed gear operatively connected to the motor, a ring carried by the gear, wiping electrical connections between the said ring and motor, an inverted cup fixed above said aforementioned cup, an annular band in said inverted cup upon which said roller is adapted to travel during the revolving of the booth, separate line wires electrically connected to said stationary band and ring.



1,343,795. CHUCK FOR HOLDING DRILLS, REAMERS, AND THE LIKE. ERIC MONTAGUE SMITH, Keynsham, near Bristol, and ALBERT WILLIAM WINSALL, Keynsham, England. Filed Aug. 13, 1919. Serial No. 317,376. 5 Claims. (Cl. 279—59.)



2. A drill chuck comprising a body provided with longitudinal flaring grooves, a non-rotating slotted cage adapted to slide in said body axially thereof, jaws carried in said cage and movable in said grooves, a spring tending to thrust said cage outward, and a detachable cap adjustable on the lower end of said body and provided with an elastic head which engages said cage.

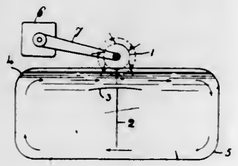
1,343,796. PENCIL-SHARPENER. JOHN SONTHEIMER, Lincoln, Nebr. Filed July 24, 1919. Serial No. 312,938. 3 Claims. (Cl. 120—87.)



1. A pencil sharpener including a tubular element having a longitudinal slot therein, and an opening at one

end of the slot and wider than the latter, said opening presenting a cutting edge extending about the same and merging into the walls of said slot; together with a clip on said element at said slot and terminating adjacent to said opening so that the clip and the adjacent edge portions at the opening jointly act to guide the edge of a pocket beneath the clip.

1,343,797. AERATION OF SEWAGE AND OTHER IMPURE LIQUIDS. OSWALD STOTT, Birmingham, and ERNEST REGINALD JONES, Stourbridge, England. Filed June 21, 1919. Serial No. 305,885. 6 Claims. (Cl. 210—18.)



1. In processes of purifying sewage and other impure liquids in which the purification is effected by bacterial sludge and air, artificially circulating the sewage or liquid by acting upon the surface only of the liquid, and at the same time ruffling or agitating the surface, so as to cause the introduction of air into the liquid by said ruffling or agitation.

1,343,798. PIN-ANCHOR ESCAPEMENT FOR TIMEPIECES. TOMOKICHI TODA, Kaijo, Chosen, assignor of one-half to Tomokichi Takata; Nagoya City, Japan, and one-half to Hansuke Gunji, Iwate, Japan. Filed Nov. 14, 1918. Serial No. 262,627. 3 Claims. (Cl. 58—116.)



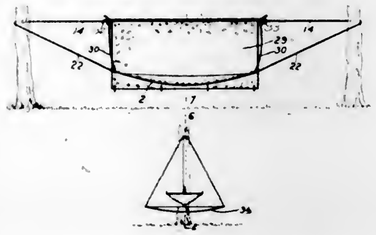
1. A pin anchor escapement for time pieces including escapement wheels provided with teeth, a pallet mounted adjacent each of the wheels for periodically stopping and releasing the wheels, and arcuate edges on the teeth of the escapement wheels described from a point coincident with the axis of rotation of the pallet to prevent recoil of the escapement.

1,343,799. LUMBER-PILING DEVICE. FRANK E. TREFREN, Butte Falls, Oregon. Filed Feb. 18, 1918. Serial No. 217,868. 1 Claim. (Cl. 193—8.)



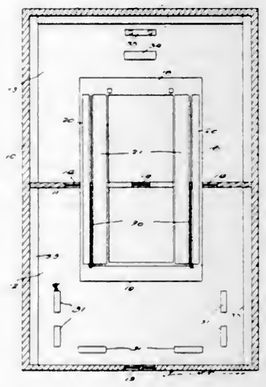
A lumber piling device, comprising a plurality of sections forming front, rear and intermediate frames disposed in telescopic overlapped relation to each other, the intermediate and the rear frames being formed with longitudinally slotted sides, transverse shafts journaled in each frame near the opposite ends thereof, certain of said shafts being engaged in the slotted sides for slidably connecting the front, rear and intermediate frames together, an endless conveyer disposed longitudinally about the frames and having the upper stretch thereof reversely trained about the shafts in said frames to provide stepped portions in the upper stretch of the conveyer between the outer end of the front and rear frames, and means for extending the frames to render the conveyer taut in its trained relation to the shafts in said frames.

1,343,800. TENT AND HAMMOCK. LESLIE E. TRIMM, Brooklyn, N. Y. Filed Mar. 25, 1919. Serial No. 285,059. 2 Claims. (Cl. 135—1.)



2. A combined tent and hammock comprising a body substantially A shape in cross section, a hammock arranged in the body adjacent the base, cables connected to the ends of the hammock and to the apex of the body acting as supports for the hammock and the body, and a retaining rope at each end of the hammock, said ropes being connected to the hammock at one end and at the opposite end to the respective names adjacent the apex of said body.

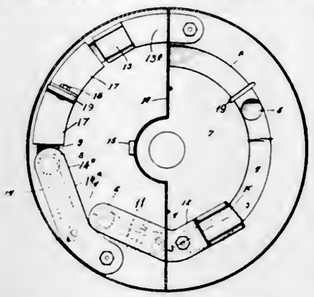
1,343,801. STORE CONSTRUCTION. JAMES M. TURNER, Florence, Ala. Filed May 27, 1919. Serial No. 300,082. 5 Claims. (Cl. 186—14.)



1. A store structure comprising an inclosure, a partition in said inclosure to provide independent display and supply rooms, an exchange accessible from said rooms and having counters located in the respective rooms on opposite sides of the partition and inner and outer reversely traveling conveyers movably arranged at each side of the exchange for dispersing orders and articles from one room to the other.

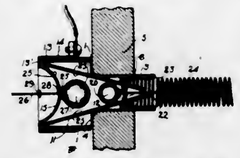
1,343,802. SEED-SELECTING MECHANISM. ROBERT A. VEST, Pontotoc, Tex. Filed Jan. 19, 1918. Serial No. 212,693. 1 Claim. (Cl. 221—122.)

A seed selecting mechanism comprising a hopper having openings 2 and 3 in its bottom wall at different distances from its center, a rotary plate arranged immediately above said bottom and having pairs of apertures at different distances from its center and adapted to be moved into registration with the openings in the bottom wall, a stationary plate arranged in the hopper immediately above the rotary plate and having arcuate openings at different distances from its center and also having upstanding lugs above and at angles to said openings and an upstanding lug adjacent to its center; the first-named lugs being adapted for the detachable connection of covering strips and the second-named lugs for the detachable connection of a partition, housings carried by said stationary plate, and



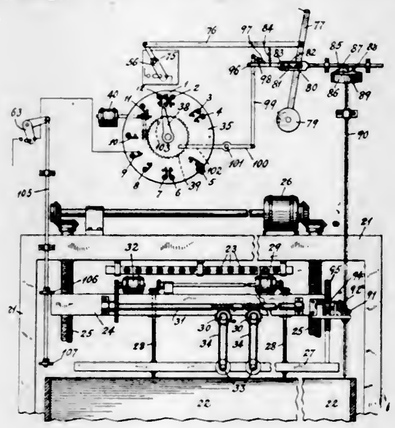
spring-pressed scrapers and spring-pressed knockers in said housings; one scraper and one knocker being employed in each of the arcuate openings.

1,343,803. THERMAL CIRCUIT-CLOSER. WILLIAM PINCKNEY WEBBER, Brooklyn, N. Y. Filed May 29, 1919. Serial No. 300,527. 8 Claims. (Cl. 200—142.)



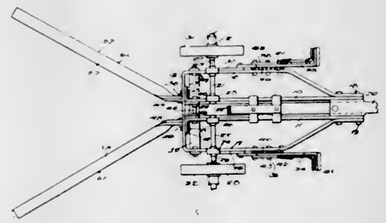
2. A thermal circuit closer, adapted to be positioned in a support to be responsive to a temperature change on either side of said support, said device comprising a casing, a cap insulated in one end thereof and means within the casing normally held in an elevated position by a connection between said casing and said means, said connection including a metal composition having a relatively low melting point, whereby when the composition is melted the said means will gravitate downward and establish an electrical connection between said cap and said casing.

1,343,804. MEANS FOR ELECTRICALLY CONTROLLING SKEIN-MERCERIZING MACHINES. JAMES EDWARD WILD and WILLIAM WALLACE CALDWELL, Fall River, Mass., assignors to The American Thread Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 17, 1918. Serial No. 258,594. 10 Claims. (Cl. 8—20.)



1. In an electrically operated skein mercerizing machine, a normally open circuit-maker, a normally closed circuit-maker, a relay in series with the normally open circuit-maker, an auxiliary switch controlled by said relay for maintaining its circuit when closed, said auxiliary switch being in series with said normally closed circuit-maker and in parallel with said normally open circuit-maker, and a traveling actuator adapted to close said open circuit-maker and subsequently open said closed circuit-maker, and a motor circuit controlled by said relay, and rotatable poles driven by said motor and adapted to support the yarn to be mercerized.

1,343,805. WEEDING DEVICE. WILLIAM ZETZMAN, Post, Tex. Filed May 31, 1919. Serial No. 300,964. 3 Claims. (Cl. 55—60.)

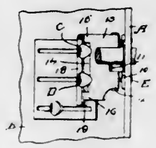


1. In an implement of the class described including a frame adapted to support a draft appliance, standards attached to said frame and having forwardly directed cutting edges, and cutting blades attached to said standards and spaced above their lower ends.

1,343,806. METHOD OF MANUFACTURING DECORATED ARTICLES OF GLASS WITH COLORED FIGURES IN THE GLASS MASS. ALBERT AHLIN, Orrefors, Sweden, assignor to Orrefors Bruks Aktiebolag, Orrefors, Sweden. Filed Dec. 7, 1917. Serial No. 205,990. 1 Claim. (Cl. 41—21.)

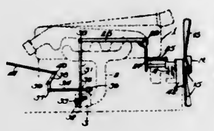
A method of manufacturing colored glass articles which consists in etching figures upon a colored glass layer, applying thereon an outer layer of uncolored glass and fusing the contiguous surfaces together, thereby filling up the etching.

1,343,807. AUTOMOBILE-LOCK. SAMUEL A. BERRYHILL and ISAIAH W. WOOLLEY, Charlotte, N. C. Filed Oct. 31, 1919. Serial No. 334,658. 1 Claim. (Cl. 70—126.)



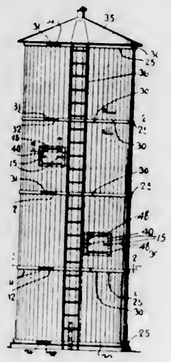
An automobile transmission lock comprising a plate secured in vertical position against the dash of an automobile, a rearwardly extending ear on said plate, a second plate having its forward edge provided with ears straddling and pivotally connected with said first named ear and having its rear edge provided with a cut-out portion defining spaced arms, said cut-out portion receiving the clutch and reverse pedals in their extreme forward positions, a bar pivoted upon one of said arms and movable to engage against the rear edges of the pedals whereby to prevent rearward movement thereof, the free end of said bar having an opening slidably engaging upon the other of said arms, and a lock mechanism carried by the bar, said other arm having a recess for the engagement of the locking mechanism.

1,343,808. AUTOMATIC GOVERNOR. FRANK J. BRUMME, Cooksville, Ill. Filed Mar. 8, 1920. Serial No. 364,092. 4 Claims. (Cl. 123—108.)



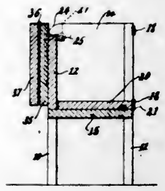
1. An internal combustion engine, having a valve, a support, a sleeve rigidly mounted in said support and projecting therefrom for a portion of its length, a pulley mounted to rotate upon said sleeve, a fan secured to said pulley and arranged to rotate therewith, a housing carried by said fan to rotate therewith, a pair of opposite centrifugal members carried on the inside of said housing, each of said centrifugal members having an arm extending toward a corresponding arm of the other centrifugal member, a stub shaft slidably disposed in a central bore of said sleeve and having one end extending within said housing, a thrust bearing carried upon the end of said stub shaft extending within the housing, an L-shaped lever pivotally secured to said engine and having an arm arranged to press against the adjacent end of said stub shaft, a tension spring connecting said support and the arm of said L-shaped lever pressing against the end of said stub shaft, whereby the thrust bearing upon said stub shaft is maintained against the arms of the centrifugal members, a link connecting said lever and the valve in said carbureter, whereby said valve is controlled by the operation of the centrifugal members, and an additional lever and link device connected to the valve in the carbureter whereby the flow of fuel therethrough can be regulated at will while the engine is in operation.

1,343,809. SILO. JOHN H. COMER, Liberty Hill, Tex. Filed Oct. 21, 1918. Serial No. 258,992. 1 Claim. (Cl. 217—4.)



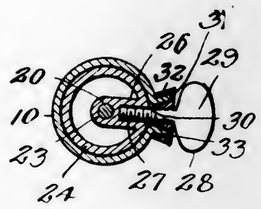
In a device of the class described, a plurality of longitudinally extending sections forming segments of a cylindrical structure, the edges of the sections overlapping, circumferential members surrounding the sections at intervals and formed of assembled strips forming continuous layers circumferentially, certain of the layers being narrower than others, and adjacent layers overlapping along circumferential lines to form broken joints, and tension devices surrounding the circumferential members and comprising hoops of approximately the width of the assembled strips, and means for securing the ends of the tension members.

1,343,810. COLLAPSIBLE BENCH. IWAN DANYLUK, Weimar, Tex. Filed Mar. 18, 1919. Serial No. 283,381. 1 Claim. (Cl. 45—116.)



In a folding bench, the combination with two pairs of rigid legs, of a back plate connected therebetween, elements engaged between each of said pairs, extension plates hingedly engaged with said elements, another pair of legs engaged with the outer edges of said extension plates, a top plate disposable over the first-named end elements, a second top plate hingedly engaged with the first top plate disposable over said extension plates when in outward position, and a folding shelf secured between said end plates below said top plates, headed bolts pivotally engaged in the upper rear corners of the rear pair of said rigid legs, T-shaped slots in said first-named top plate in which the heads of said bolts are slidably engaged, transverse pins in said rear pair of rigid legs, the upper corners of said legs being formed with curves having their centers at the axes of said pins, said headed bolts having eyes pivoted on said pins and an extending rectangular head slidable in said T-shaped slots.

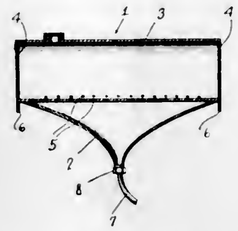
1,343,811. FORK. HUGH EMERY DENMAN, Harwood, Tex. Filed July 15, 1919. Serial No. 310,914. 3 Claims. (Cl. 30—5.)



1. A fork comprising a hollow handle, prongs projecting from one end thereof, a cleaning element slidably mounted on said prongs, a rod supporting said element arranged to reciprocate within said handle, a disk carried by the inner end of said rod, a coiled spring encircling said rod and interposed between the disk and the opposite end of the handle and adapted to support the rod in a position whereby the cleaning element will be disposed normally adjacent the handle, said disk being adjustable on said rod to vary the tension of said spring and means for operating said rod against the tension of said yieldable means.

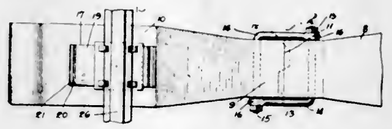
1,343,812. GASOLENE AUTOMOBILE-TANK. MARSHAL SHELY DICKERSON, Cleveland Ranch, Nev. Filed June 13, 1919. Serial No. 303,943. 1 Claim. (Cl. 158—46.)

A fuel tank for motor vehicles, having a cylindrical main body section the major axis of which is normally horizontal, and a downwardly converging and substantially funnel shape lower body section having a gravity feed pipe connection at its lowermost portion, the lower



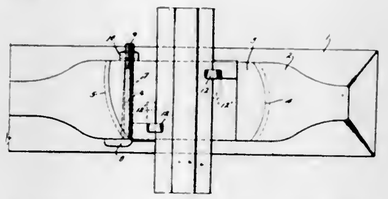
part of the main body section being formed with perforations within the area inclosed by the union of the lower body section, as and for the purpose set forth.

1,343,813. RAILWAY-TIE. JOSEPH ROBERT DOOLEY, Mobile, Ala. Filed Aug. 30, 1919. Serial No. 320,844. 1 Claim. (Cl. 238—31.)



A railway tie comprising two sections having abutting ends, a projection on each of said abutting ends, a recess formed on each of said abutting ends and arranged to receive the projection upon the abutting end opposed thereto, and means carried by each of said abutting ends and adapted for interengagement to secure the two tie sections in operative position.

1,343,814. CROSSTIE. JOSEPH ROBERT DOOLEY, Mobile, Ala. Filed Nov. 26, 1919. Serial No. 340,811. 8 Claims. (Cl. 238—271.)



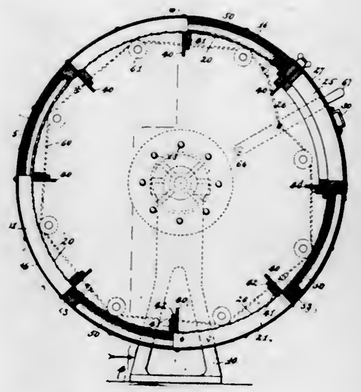
1. A cross tie embodying in its construction, a removable rail supporting section, said tie having a pocket with arcuate end portions, and said removable supporting section having ends coöperating with said end portions to permit pivotal application or displacement of the supporting section, and interlocking means between the tie proper and the supporting section for securing the latter in position.

1,343,815. SOAP-DISPENSING DEVICE. CHARLES E. EWING, Lincoln, Nebr. Filed Mar. 18, 1920. Serial No. 366,732. 2 Claims. (Cl. 146—11.)



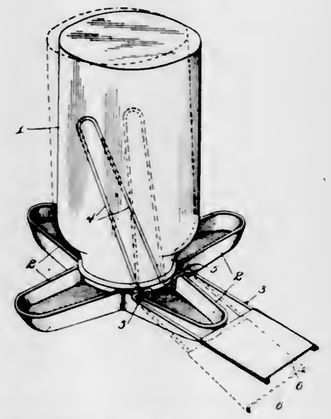
2. In a soap dispensing device, a body having a slot, an integral blade depending under the said slot, and the edges of the said slot being rounded, as and for the purpose described.

1,343,816. TUMBLING APPARATUS FOR FURS. BERNHARD FRIEDMAN, New York, and SAMUEL FRIEDMAN, Brooklyn, N. Y. Filed July 26, 1919. Serial No. 313,496. 6 Claims. (Cl. 38—12.)



2. A tumbling apparatus for softening furs, comprising a drum having heads, an outer solid rim and an inner perforate rim forming with the outer rim a space for receiving a tumbling material, lifting members extending inwardly from the perforate rim to raise and drop the furs and the tumbling material on rotating the drum, and discharging means leading from the said space between the rims to the outside for discharging the sawdust independent of the furs after the tumbling action is completed.

1,343,817. FEEDING DEVICE. FRED B. GILBERT, Modesto, Calif. Filed Oct. 10, 1919. Serial No. 329,649. 2 Claims. (Cl. 119—55.)

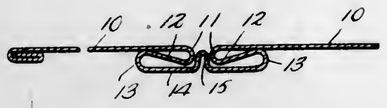


1. In combination with a fountain and its trough, an agitator comprising an upwardly extending part entering the fountain and an outwardly extending part having shoulders thereon engaging the trough and a platform carried by said outwardly extending part.

1,343,818. SHELF. FRANK GRAMMICH, Brooklyn, N. Y. Filed Apr. 7, 1920. Serial No. 371,876. 8 Claims. (Cl. 211—27.)

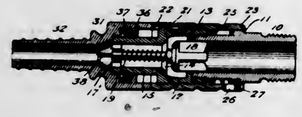
1. A sheet metal shelf having folds therein so that the shelf presents adjacent areas at the sides of said folded portion, the material at the folded portion being carried

downwardly from the edges of said areas and laterally outward to present an oblique member beneath each area, the material from said obliquely members being formed



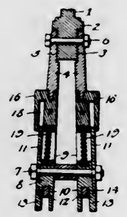
with return bends and extending laterally inward beneath said oblique members and continuously across the space between the adjacent areas.

1,343,819. FLUID-PIPE COUPLING. BRUNO GRENCI, Clifton City, N. J. Filed July 3, 1919. Serial No. 308,462. 4 Claims. (Cl. 284—18.)



1. In a fluid coupler, a fluid inlet member, a longitudinally movable valve associated therewith, a spring influenced sleeve arranged over said member, a combined coupling head and valve control member for contacting engagement with the sleeve, interengaging means between the member and the sleeve when the said member is brought to one position, interlocking means between the member and the remainder of the coupler when the same is brought to its last mentioned position, and means carried by the said member for unseating the valve when in its last mentioned position.

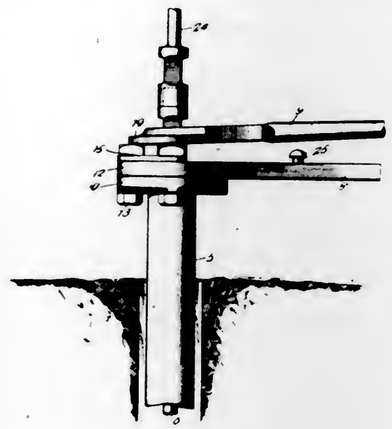
1,343,820. SPRING-FORK FOR BICYCLES. MERRELLON F. HARDNETT, Atlanta, Ga. Filed July 14, 1919. Serial No. 310,580. 2 Claims. (Cl. 208—97.)



1. A bicycle fork, having arms each provided with a vertical slot, blocks forming bearings for a wheel axle and arranged for movement in the lower portions of the slots, said blocks having inner and outer guide arms respectively engaging the inner and outer sides of the fork arms, means at the upper portions of the slots having guide slots in which the outer arms of the first-named blocks operate, and springs arranged between the blocks and said means and serving to absorb shocks.

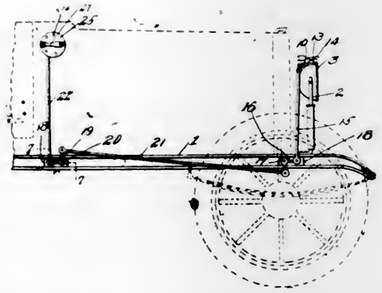
1,343,821. TOOL FOR REPLACING SUCKER-RODS. EDWARD BENSON HATCH, Turley, Okla. Filed Oct. 27, 1919. Serial No. 333,737. 5 Claims. (Cl. 255—35.)

5. In a tool of the class described the combination of a means adapted to be removably interposed between a sucker rod and a well casing for supporting the weight of the sucker rod, and means removably engageable with



the first said means and with the sucker rod for holding the latter against turning.

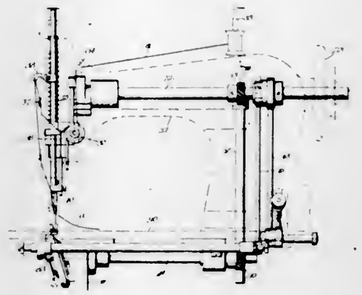
1,343,822. DIRIGIBLE HEADLIGHT. GEORGE F. MESSER, Aberdeen, Wash. Original application filed July 23, 1918, Serial No. 246,342. Divided and this application filed June 28, 1919. Serial No. 307,286. 5 Claims. (Cl. 240—61.)



1. In an apparatus of the class described, the combination with supporting means, lamps pivotally mounted upon said supporting means to swing in a vertical plane, of plates provided with upper flat faces carried by said lamps, each flat face having a threaded socket, a connecting rod engaging said flat faces and provided with apertures registering with the threaded sockets means extending through the apertures of the rod and threaded into said sockets, and means connected to said rod for swinging said lamps in a vertical plane.

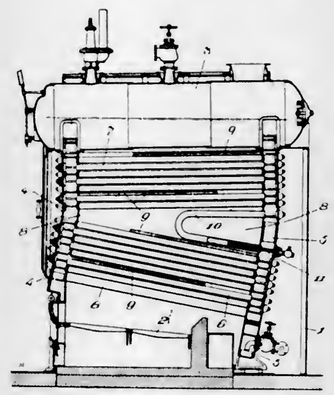
1,343,823. SEWING-MACHINE. RICHARD K. HOHMANN, Sioux City, Iowa. Filed Feb. 26, 1916. Serial No. 80,673. 5 Claims. (Cl. 112—189.)

1. In a sewing machine, the combination of a needle, mechanism for reciprocating the needle, a rotary member having a hook thereon coöperating with the needle to take the thread therefrom on every revolution of the member, rotary means for forming the thread taken by said hook into a loop the plane of which is substantially parallel to the plane of rotation of said member, means for casting



said thread loop free from said member and hook, and means for giving to said member complete revolutions in synchronism with the reciprocations of said needle.

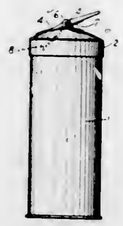
1,343,824. WATER-TUBE BOILER. HIROSUKE HORIUCHI, Taiwan, Japan. Filed Mar. 13, 1917. Serial No. 154,644. 1 Claim. (Cl. 122—444.)



The combination in a water tube boiler, of a horizontal steam drum, front and rear water-boxes substantially vertically arranged and having their upper ends communicating with the interior of said steam drum, upper and lower sets of water tubes connecting the water boxes and placing the same in communication, the upper set of tubes being inclined to the horizontal at an angle of greater than 2° in an upward direction toward the rear water-box, and the lower set of water-tubes being inclined to the horizontal at an angle of greater than 7° in a downward direction toward the rear water-box so as to form a V-shaped combustion chamber between said sets of tubes, and a feed water heater connected to the rear water box and extending into said V-shaped combustion chamber.

1,343,825. DISPENSING-CAN CLOSURE. JAMES HATTEN HOWARD, Jacksonville, Fla. Filed July 10, 1919. Serial No. 309,974. 2 Claims. (Cl. 221—62.)

1. A device of the character described, comprising a receptacle having an outlet therein, and a slot communicating with the outlet, a closure pivotally supported on the receptacle, an ejector secured to the closure located mainly



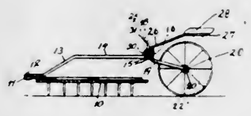
within the receptacle and movable in the said slot, and a spring normally holding the closure over the outlet.

1,343,826. CONSTRUCTION OF ADJUSTABLE SPANNERS, WRENCHES, VISES, CLAMPS, PIPE-CUTTERS, PIPE-GRIPS, AND LIKE TOOLS. FRANK HUMPHRIS, Boscombe, England. Filed July 17, 1919. Serial No. 311,677. 2 Claims. (Cl. 81—169.)



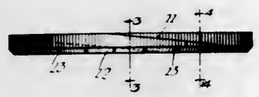
1. A tool having a fixed jaw, a movable jaw, a screw-threaded member engaging a part of the movable jaw for operating the latter jaw relatively to the fixed jaw, the member having a coöperating enlargement and an exterior actuating means for manual engagement, a ring device around the member in coöperative relation to the enlargement, and anti-frictional devices interposed between portions of the ring device and the enlargement.

1,343,827. RIDING ATTACHMENT FOR HARROWS. CHARLES K. JOHNSON, Danube, Minn. Filed Apr. 25, 1917. Serial No. 164,460. 1 Claim. (Cl. 55—91.)



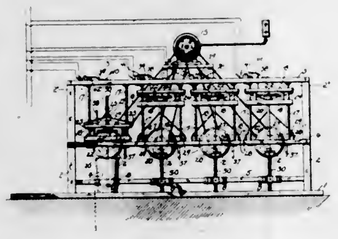
A riding attachment for harrows comprising a main bar adapted for connection with the harrow, rearwardly converging arms fixed to the bar and their rear ends elevated above the harrow, a block bolted between said ends and having three vertical holes, a seat standard having a stud removably engaged in one of the holes, a foot rest having a stud removably engaged in another, and a caster wheel having a fork provided with a stem removably engaged in the remaining hole.

1,343,828. PISTON-RING. ROBERT M. JORDAN, Cooper, Tex. Filed Feb. 18, 1919. Serial No. 277,781. 1 Claim. (Cl. 74—109.)



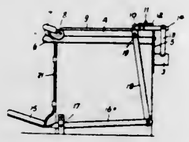
A piston ring formed in one piece and having elongated tapered beveled ends disposed in lapped relation, there being a bevel extending along one edge of the outer face of the ring and provided with depressions constituting oil accumulating and distributing means.

1,343,829. MIXING APPARATUS FOR SODA-FOUNTAINS. DARRELL S. KEPLER, Crawfordsville, Ind., assignor of one-half to Harry A. Woodworth, Sedalia, Mo. Filed Jan. 10, 1920. Serial No. 350,569. 3 Claims. (Cl. 259—131.)



1. A mixing apparatus for soda fountains, etc., comprising a series of vertically movable carriages, a stirrer shaft revolubly supported by each carriage, a yoke pivotally secured to each carriage, a rearward projecting arm carried by each yoke, a tiltable support to which said arm is fulcrumed, a forward projecting finger piece carried by each yoke, means for normally holding each of said yokes tilted downward and rearward with the carriage and stirrer shaft in elevated position, and means automatically operable upon the lowering of any one of said carriages to cause rotation of the stirrer shaft carried thereby.

1,343,830. PAN-CLOSET CABINET. GEORGE EDWARD KINCH, Quirindi, New South Wales, Australia. Filed Mar. 28, 1917. Serial No. 158,126. 6 Claims. (Cl. 4—32.)



1. The combination of a pan closet cabinet having a seat and a hinged seat lid, of a member pivotally mounted at the front edge of said seat, means operated by depression of said member for positively raising said lid, and battens secured to said seat serving both to brace the same and to firmly support the pivoted member in depressed position.

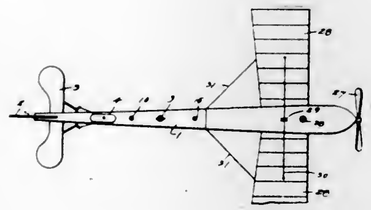
2. The combination with a pan closet cabinet of a seat hingedly connected to said cabinet, a seat lid hingedly connected to said seat, rods slidably mounter at the front of the cabinet, a member pivotally carried by said seat at the front edge thereof, said member being unconnected to said rods but positioned in operable relation to the upper ends thereof by movement of the seat into normal lowered position, levers operated by the lower ends of said rods when depressed by said member, and connections between said levers and the seat lid for opening the latter.

3. A pan closet consisting of a case open at the top, a seat panel hinged to the back of said case and adapted to fold down thereon, frame battens mounted on the underside of said panel and bracing the same, the forward ends of said battens projecting beyond the end of said seat, a gravity closed lid hinged at its rear end to the rear part of said seat, a canting sill hinged to the front of said seat and supported in its operative position by said forward projections of said battens, a canting footboard, levers carrying said footboard and fulcrumed on the side of said case, press rods between said sill and said footboard adapted to depress the footboard when the sill is depressed, and link connections between said levers and said lid.

4. A pan closet consisting of a case open at the top, a seat panel hinged to the back of said case and adapted to fold down thereon, frame battens mounted on the underside of said panel and bracing the same, the forward ends of said battens projecting beyond the end of said seat, a gravity closed lid hinged at its rear end to the rear part of said seat, rearwardly projecting arms on said lid, counterbalancing weights suspended from said arms, a canting sill hinged to the front of said seat and supported in its operative position by said forward projections of said battens, a canting footboard, levers carrying said footboard and fulcrumed on the side of said case, press rods between said sill and said footboard adapted to depress the footboard when the sill is depressed, and link connections between said levers and said lid.

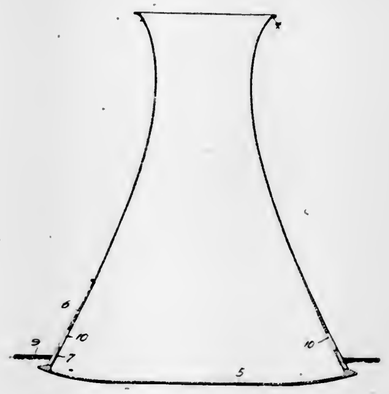
5. The combination with a pan closet cabinet of a seat hingedly connected to said cabinet, a seat lid hingedly connected to said seat, a pivotally mounted member at the lower front part of the cabinet, means operated by said member for raising the seat lid, means movably mounted at the front of the cabinet and arranged when moved to operate the first named means, and a member pivotally mounted upon the seat and arranged to be positioned in operative relation to the second named means by movement of the seat into normal lowered position.

1,343,831. AERIAL TORPEDO. CLAYTON LE ROY KLISE, Yankton, S. D. Filed Sept. 17, 1918. Serial No. 254,474. 1 Claim. (Cl. 244—1.)



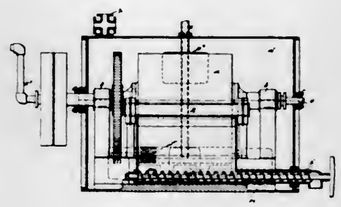
In an aerial torpedo, a rearwardly tapered body provided in its forward end portion with an elongated container for an explosive charge, means for exploding said charge at a predetermined time, a propeller shaft projecting forwardly of said body through the container, a propeller secured thereon, a compressed air tank in the rear portion of the body, a gyroscope in the body in front of the tank, and a motor in the body between the gyroscope and container and have connection with the gyroscope and propeller shaft for imparting movement to the same.

1,343,832. COOLING-TOWER OF REINFORCED CONCRETE. GERARD KUYPERS, Rotterdam, Netherlands, assignor of one-half to Frederick Karel Theodoor van Iterson, Heerlen, Netherlands. Filed Aug. 16, 1917. Serial No. 186,621. 2 Claims. (Cl. 72—13.)



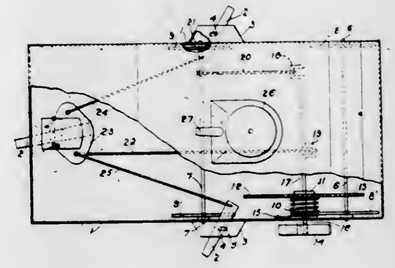
1. A low cooling tower having a base and side wall, the side wall decreasing in thickness from the base uppermost toward the upper open end of the tower and also converging toward said upper open end, the side wall at a short distance above the base being provided with a plurality of inlet openings therearound and which are the sole inlets to the interior of the tower from the bottom to the upper open end, the interior of the tower being also fully open and free of all obstructions from the bottom to the top thereof.

1,343,833. APPARATUS FOR SOLIDIFYING OR CONCENTRATING MATERIALS. JOHN WALKER LEITCH, Huddersfield, England. Filed Nov. 14, 1918. Serial No. 262,551. 2 Claims. (Cl. 257—98.)



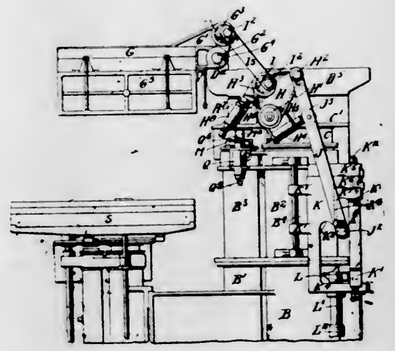
1. An apparatus of the class described, comprising a revolving cylinder, an airtight casing in which the cylinder is inclosed, a feed roller within the casing revolving with its periphery in contact with the liquid to be treated and with the cylinder, a hopper contained within the casing to receive the material from the cylinder, a delivery pipe extending from said hopper to the exterior of the apparatus, means within the hopper for continuously removing the material from the hopper through said delivery pipe, the material in said delivery pipe serving to exclude air from the casing, and means for continuously feeding liquid to the casing in an air-tight manner.

1,343,834. AUTOMATIC SELF-PROPELLED TOY TANK. CHARLES A. LEWIS and HAROLD E. SMOCK, Dayton, Ohio. Filed Mar. 15, 1919. Serial No. 282,832. 7 Claims. (Cl. 46—48.)



1. In a self-propelled toy tank mounted on wheels, a body therefor, a gun mounted thereon, means for moving said gun, and means for moving one of the wheels to cause the tank to move in an irregular path.

1,343,835. MOLDING-MACHINE. WILFRED LEWIS, Haverford, Pa., assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 9, 1919. Serial No. 322,664. 12 Claims. (Cl. 22—33.)

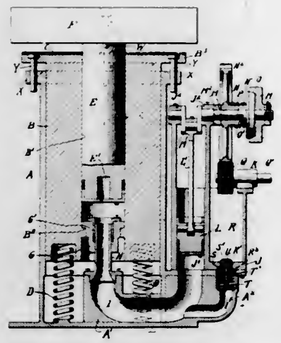


1. In a molding machine having a base, floating anvil, mold support, a roll over table hinged to said support, and means for causing a vertical movement of the anvil to communicate a roll over movement to the table including a rock lever pivoted on the anvil, and a connecting rod connecting said rock lever to the table, the improvement which consists in providing adjustable eccentric bushings in the rock lever and table, said bushings carrying the pins to which the connecting rod is secured.

1,343,836. JAR-MOLDING MACHINE. WILFRED LEWIS, Haverford, Pa. Filed Dec. 30, 1919. Serial No. 348,284. 13 Claims. (Cl. 22—45.)

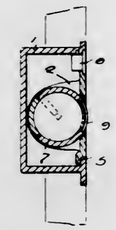
6. In a jarring machine having a cylinder and piston for actuating the work holding table, the combination

with said cylinder of a liquid containing chamber, a piston working in said chamber, a driving shaft connected to



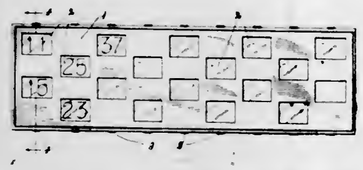
actuate said piston, and means for driving said shaft, including a clutch operative during the working stroke of the piston and inoperative during its return stroke.

1,343,837. IDENTIFICATION ATTACHMENT FOR AUTOMOBILES. WINFIELD S. MARR, Enid, Okla. Filed June 24, 1918. Serial No. 241,541. 1 Claim. (Cl. 40—125.)



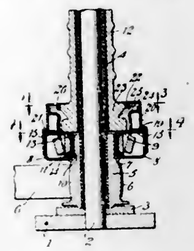
A device of the character described comprising a substantial box like casing having a substantially rectangular shaped opening in its front, a cover piece for the opening and having a flanged lower edge to receive the companion edge of the opening, brackets on the inner face of the cover piece, the cover piece being formed with a slot, a cylindrical member forming a receiver having trunnions detachably engaged in the brackets, a slide on the member to permit access thereto, a plate on the member to coincide with the slot in the cover piece, and means for locking the cover piece in the opening in the casing.

1,343,838. GAME. VIKTOR NIEWALESKI, Brooklyn, N. Y. Filed Jan. 19, 1920. Serial No. 352,317. 2 Claims. (Cl. 46—21.)



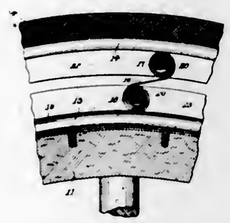
1. A device of the class described comprising a base member, spaced apart lateral channels extending across said base member, walls separating said channels, a face member secured to said walls so as to cover said base member, symbols marked on said base member in said channels, holes in said face member registering with said symbols, and slides movable in said channels comprising a body portion, of transparent material, an end portion of opaque material, and a handle portion.

1,343,839. BOBBIN AND SPINDLE CONNECTOR. CARL NORDELL, Gilbertville, Mass. Filed Aug. 4, 1919. Serial No. 315,359. 4 Claims. (Cl. 242—46.5.)



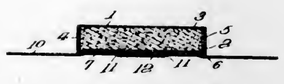
1. In a bobbin holder, a stationary spindle, a rotating sleeve on the spindle, a shell secured to turn with the sleeve, a ring on the upper end of the shell having radial recesses therein, arms having notched edges fulcrumed in said recesses, a ring secured above the outer portions of the recesses limiting the lateral movement of the arms at their fulcrums, said arms having weights at their lower ends and at their upper ends adapted to engage a spindle mounted on the sleeve.

1,343,840. DEMOUNTABLE METAL TIRE FOR AUTOMOBILES. FRANK PATAYE, Gardenville, N. Y. Filed Jan. 23, 1920. Serial No. 353,545. 1 Claim. (Cl. 152—32.)



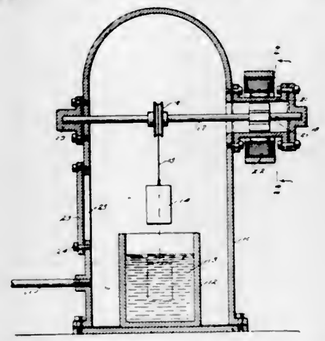
A tire comprising concentric rims having inwardly projecting opposed flanges, bolts arranged in pairs, and the bolts of each pair mounted adjacent each other on opposed flanges, and springs coiled at their opposite ends with the coils surrounding and secured to said bolts, the tension of said springs being increased when the rims move relatively to each other in one direction to tighten the convolutions of the coiled ends of the springs.

1,343,841. RAILWAY SIGNAL-TORPEDO. ELMER C. PFEIL, Fostoria, Ohio, and HARVEY O. BEMISDERFER, Hammond, Ind., assignors to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 28, 1917. Serial No. 158,005. 6 Claims. (Cl. 246—487.)
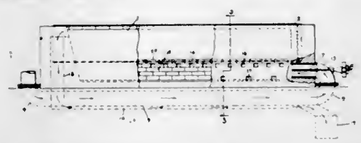


3. An improved railway signal torpedo comprising two paper cases, one an inner case and the other an outer case, each of the cases having a cup-shaped form, the flange of the outer case being wider than the flange of the inner case and doubled inward, and a cement coating for the doubled-in edge of the paper case to hold it in its doubled-in position.

1,343,842. PROCESS AND APPARATUS FOR METAL-PLATING. ROBERT J. PIERSOL, Bentleyville, Pa. Filed Jan. 3, 1920. Serial No. 349,172. 5 Claims. (Cl. 91—70.2.)



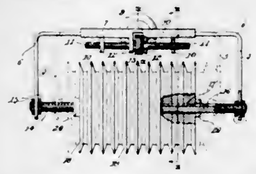
1. A process for the plating of one metal by another metal which consists in treating one of said metals with the other of said metals *in vacuo* at a temperature between the melting points of the two metals.

1,343,843. GALVANIZING-FURNACE. CARL A. PORATH, Kokomo, Ind. Filed July 7, 1919. Serial No. 308,944. 4 Claims. (Cl. 263—14.)



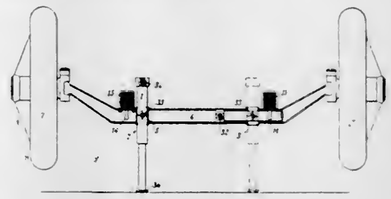
1. In a galvanizing furnace, a tank for containing galvanizing material, a substance of greater specific gravity than the galvanizing material in and covering the bottom of said tank, and means located under said tank for heating the bottom thereof.

1,343,844. DOUGH-CUTTER. GASPAR RAPAVY, Louisville, Nebr. Filed Jan. 19, 1920. Serial No. 352,370. 2 Claims. (Cl. 107—51.)



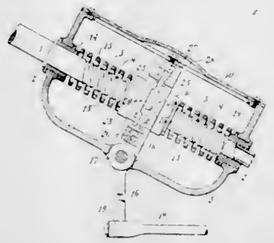
1. A dough cutter comprising a frame formed of a pair of angular end members each having one leg horizontally disposed and the other vertically disposed, a member slidably connecting the horizontally disposed legs of said end members, means for adjusting the end members toward and from each other having operative connection with the horizontally disposed legs of the end members, a handle for said frame, a spindle having its opposite ends journaled in the lower ends of the vertical legs of said ends members, a plurality of cutter disks keyed on said spindle and means adjustable longitudinally on said spindle to clamp the cutter knives in contiguous relation upon said spindle whether the same are reduced or increased in number.

1,343,845. LIFTING-JACK. FREDERICK LIONEL RAPSON, Liverpool, England. Filed July 10, 1918. Serial No. 244,302. 5 Claims. (Cl. 254—86.)



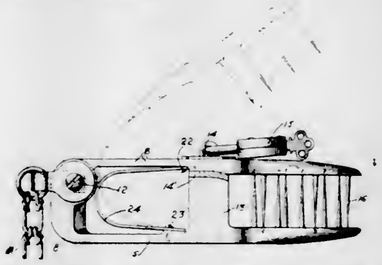
1. The combination with a vehicle part, of a clip for removable clamping connection with such part, a jack pivotally mounted on and with relation to such clip and comprising a body member and a relatively adjustable member, and independent means on the body member and adapted respectively for turning said jack as a whole on its pivotal mounting and for moving the adjusting member relative to the body member.

1,343,846. MEANS FOR STEERING MOTOR-VEHICLES. FREDERICK LIONEL RAPSON, Liverpool, England. Filed Oct. 16, 1918. Serial No. 258,427. 6 Claims. (Cl. 74—79.)



1. A steering device of the character described, comprising a rotatable post, a block to move longitudinally of the post and having screw threaded engagement therewith, yielding means disposed to engage the block to oppose its longitudinal movement in either direction, and means for connecting the block with the steering wheels of a vehicle.

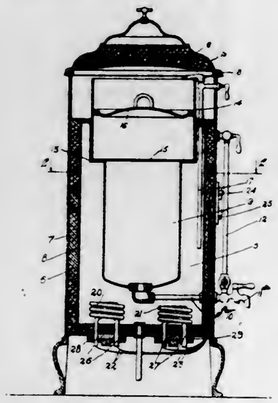
1,343,847. ROBE-SECURING DEVICE. ROBERT REID, Sanford, Me. Filed May 1, 1919. Serial No. 294,051. 1 Claim. (Cl. 296—77.)



A device of the character described comprising a plurality of jaw members pivotally secured together at one ends, a spring for normally maintaining said jaws in open position, one of said members being provided with a right-angular extension within which the other member is pivoted, a plurality of teeth rigidly carried by each of said jaws, a second right-angular extension spaced from the first-mentioned right-angular extension and integral with

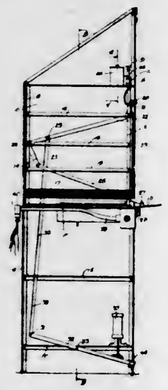
the jaw member on which the first right-angular extension is formed, said second-mentioned right-angular extension being adapted for engagement with the opposed jaw member to limit the movement thereof relatively toward its opposed jaw member, means passing through the jaw members and of sufficient length to present an eye exteriorly of one of the jaw members when said jaw members are in their closed position, and means adapted for engagement within said eye to prevent relative movement of the jaw members in a direction opposite to each other.

1,343,848. COFFEE-URN. ANSON S. RICE, Brooklyn, N. Y., assignor to Duparquet, Hout & Moneuse, New York, N. Y. Filed June 19, 1919. Serial No. 305,274. 1 Claim. (Cl. 219—38.)



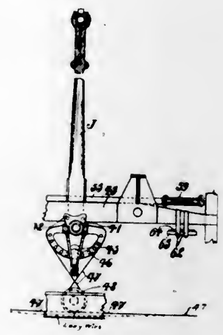
A coffee urn comprising in combination with the main body and water receptacle of the urn, a plurality of electric heaters of the submerged type removably secured to the bottom wall of the water receptacle, means for supplying current to each of said heaters independently, and means for independently controlling the supply of current to said heaters.

1,343,849. ROLL-HEATING DEVICE. ANSON S. RICE, Brooklyn, N. Y., assignor to Duparquet, Hout & Moneuse, New York, N. Y. Filed June 19, 1919. Serial No. 305,275. 8 Claims. (Cl. 126—369.)



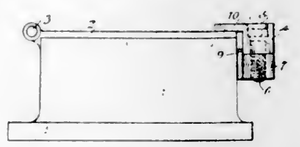
2. In combination with a heating chamber, its heating elements and their control, means for supplying moisture to said chamber, said moisture-supplying means being automatically operated by the controlling means of the heating element substantially as described.

1,343,850. CONTROLLING-GEAR FOR AIRCRAFT. ALLIOTT VEADON ROE, Hamble, Southampton, England. Filed Oct. 31, 1918. No. 260,515. 7 Claims. (Cl. 244—29.)



1. A control for aeroplanes, comprising a rotatable shaft, a segmental member attached thereto, a circular pulley, flexible connections between said segmental member and ailerons on the main planes, said flexible connection crossing between said segmental member and said circular pulley and passing around said circular pulley, so that it passes from opposite sides of the segmental member in opposite directions around said circular pulley, a hand control lever pivotally mounted on said rotatable shaft so that it will oscillate longitudinally in relation thereto and transversely therewith, the pivotal axis of said lever intersecting the axis of the rotatable shaft, an extension of said lever below said rotatable shaft and flexible connections from said lever and said extension to elevating planes supported at the rear of the aeroplane.

1,343,851. LOCK FOR METERS, &c. HARRY HERBERT ROE, Pretoria, South Africa. Filed Nov. 1, 1919. Serial No. 335,050. 3 Claims. (Cl. 292—212.)

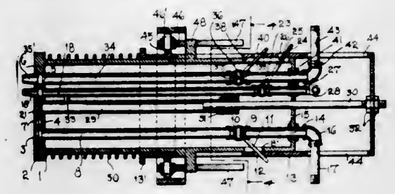


2. A lock for meters and the like comprising a lug secured to the meter, said lug being formed with a shoulder and a threaded aperture, a bolt having an ear, a portion adapted to interlock with said shoulder, and a large bore merging into a small bore, and a clamping screw formed with a polygonal shaped head arranged in said large bore and threaded portion extending through said small bore into said threaded aperture for clamping the bolt against said lug so as to cause the interlocking portion of the bolt to interlock with said shoulder and be locked against turning thereby.

1,343,852. FLUID-PRESSURE COUPLING. SIDNEY AUGUSTIN ROUSSEAU, De Witt, Ark. Filed Nov. 21, 1919. Serial No. 339,644. 10 Claims. (Cl. 284—6.)

1. An automatic fluid pressure coupler for train pipes, comprising two telescoping cylinders, one stationary and the other movable and provided with apertures in its outer end wall, nipples projecting from said apertures, fluid pressure pipes communicating with said nipples, valves in said pipes automatically opening and closing as the movable cylinder moves in opposite directions, the outer

end of said movable cylinder having a recess and an aperture and also a duct leading from said recess to one of said nipples, and a valve regulated fluid pressure member communicating with said last mentioned aperture and adapted for connection to a train pipe.



2. An automatic fluid pressure coupler for train pipes, comprising two telescoping cylinders, one stationary, and the other movable and provided with apertures in its outer end wall, nipples projecting from said apertures, fluid pressure pipes communicating with said nipples, valves in said pipes automatically opening and closing as the movable cylinder moves in opposite directions, the outer end of said movable cylinder having a recess and an aperture and also a duct leading from said recess to one of said nipples, a valve regulated fluid pressure member communicating with said last mentioned aperture and adapted for connection to a train pipe, and means for holding the nipples upon one coupler head in alinement with a recess and aperture upon an opposing head, as the heads come together.

3. An automatic fluid pressure coupler for train pipes, comprising two telescoping cylinders, one stationary and the other movable and provided with apertures in its outer end wall, nipples projecting from said apertures, fluid pressure pipes communicating with said nipples, valves in said pipes automatically opening and closing as the movable cylinder moves in opposite directions, the outer end of said movable cylinder having a recess and an aperture and also a duct leading from said recess to one of said nipples, a valve regulated fluid pressure member communicating with said last mentioned aperture and adapted for connection to a train pipe, means for holding the nipples upon one coupler head in alinement with a recess and aperture upon an opposing head, as the heads come together, and means for applying fluid pressure to the inner face of the head of each movable cylinder as said heads are coupled together.

4. An automatic fluid pressure coupler for train pipes, comprising two telescoping cylinders, one stationary and the other movable and provided with apertures in its outer end wall, nipples projecting from said apertures, fluid pressure pipes communicating with said nipples, valves in said pipes automatically opening and closing as the movable cylinder moves in opposite directions, the outer end of said movable cylinder having a recess and an aperture and also a duct leading from said recess to one of said nipples, a valve regulated fluid pressure member communicating with said last mentioned aperture and adapted for connection to a train pipe, means for holding the nipples upon one coupler head in alinement with a recess and aperture upon an opposing head, as the heads come together, and means for applying fluid pressure to the inner face of the head of each movable cylinder as said heads are coupled together, comprising a fluid pressure cylinder connected at its outer end to the head of the movable cylinder and communicating with one of said fluid pressure pipes, and a piston telescoping into said fluid pressure cylinder.

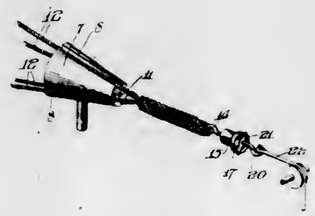
5. An automatic fluid pressure coupler for train pipes, comprising two telescoping cylinders, one stationary and the other movable and provided with apertures in its outer end wall, nipples projecting from said apertures, fluid pressure pipes communicating with said nipples, valves in said pipes automatically opening and closing as the movable cylinder moves in opposite directions, the outer end of said movable cylinder having a recess and an aperture and also a duct leading from said recess to one of said nipples, a valve regulated fluid pressure member communicating with said last mentioned aperture and adapted for connection to a train pipe, means for holding the nipples upon one coupler head in alinement with a recess and aperture upon an opposing head, as the heads come together, and means for applying fluid pressure to the inner face of the head of each movable cylinder as said heads are coupled together, comprising a fluid pressure cylinder connected at its outer end to the head of the movable cylinder and communicating with one of said fluid pressure pipes, and a piston secured at its inner end to the stationary cylinder and projecting into said fluid pressure cylinder.

1,343,853. HOSE-COUPLING. ABRAHAM RUBIN, New York, N. Y. Filed June 30, 1919. Serial No. 307,536. 1 Claim. (Cl. 285—86.)



In a device of the class described, the combination of a hose having the foundation of springy spiral formation in which the windings thereof are capable of contraction and expansion to vary the internal diameter thereof, a coupling member having a portion of substantially uniform diameter throughout insertible in the end of the hose and adapted to be rotated therein, said member co-acting with the windings to permit of free rotation in one direction of the member and effect an expansion of the windings of the hose and to cause contraction of the windings against the member on tendency of the member to revolve in an opposite direction, said member also comprising a flange portion adjacent to the first said portion, and a ferrule adapted to fit on the end of said hose and provided with an annular shoulder adapted to be firmly seated between the end of said hose and the flange portion of said member.

1,343,854. SPREADER FOR ROPE-MAKING. WILLIAM H. SPENCER, Buffalo, N. Y., assignor of one-third to Pearl O'Neill and one-third to Wilson G. Smith, Buffalo, N. Y. Filed Aug. 16, 1919. Serial No. 317,878. 2 Claims. (Cl. 28—2.)



1. A spreader comprising a tapered body provided with longitudinally extending channels having a V-shaped cross-section formation at one end and a curved bottom cross-section formation at the other, said curved and V-shaped formations merging between the two ends.

1,343,855. PICTURE-HOOK. LUCIUS S. TYLER, Boston, Mass. Filed Dec. 3, 1917. Serial No. 205,027. 1 Claim. (Cl. 248—48.)

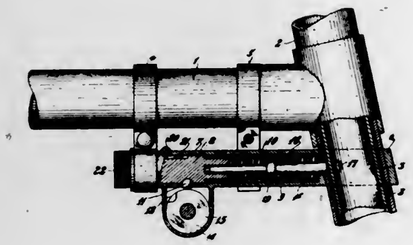
A picture hook comprising a body portion having at one end a molding-engaging member and at its other end a cord-receiving member, and having a spring-tongue member

projecting outwardly away from the body portion near the molding-engaging member and provided with an arm separated from said body portion by a substantial space and extended downward toward and near to the said cord-receiving member substantially parallel with said body member to impart to said arm a spring action and co-



operating with said cord-receiving member and body portion to form therewith a three-point bearing for frictionally engaging the opposite surfaces of an elevating device extended under the said tongue member and between its arm and the cord-receiving member to enable the said hook to be frictionally secured to said device.

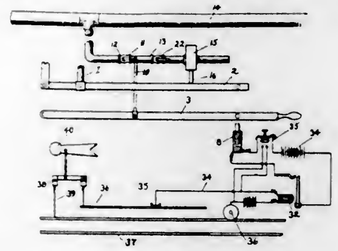
1,343,856. BICYCLE-LOCK. JACOB HENDRIK VAN VIERSEN, The Hague, Netherlands. Filed Feb. 20, 1920. Serial No. 360,197. 3 Claims. (Cl. 70—90.)



1. In a bicycle-lock in combination with the upper tube and inner and outer relatively rotatable crown tubes of the frame of a bicycle, the crown tubes being provided with registrable openings, of a casing attached to the frame and positioned beneath the upper tube and at substantial right angles to the crown tube, a latch slidably mounted in the casing and including a sectional body and a slidably mounted spring pressed pin in the body and normally held in an extended position for engagement with the openings in the outer crown tube when the latch is extended so as to bear against the inner crown tube and automatically engage the opening therein upon the turning of the inner crown tube until the opening therein registers with the opening in the outer tube, a spring arranged within the casing and about the outer portion of the pin and bearing against the inner end of the casing and the latch for normally holding the latch in a retracted position and means for locking the latch in an extended position.

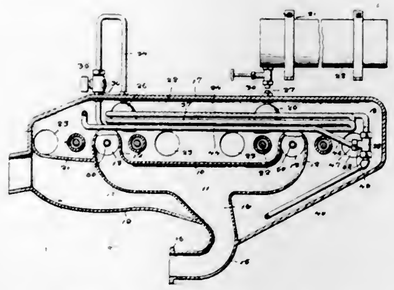
1,343,857. AUTOMATIC TRAIN-STOP. ROBERT WALLER, Pittsburgh, Pa. Filed Sept. 11, 1917. Serial No. 190,841. Renewed Dec. 19, 1919. Serial No. 346,166. 8 Claims. (Cl. 246—186.)

8. In an automatic train stop apparatus comprising a branch pipe connected to the train line, a feed valve arranged therein, a bleed valve arranged in said pipe, a regulating valve arranged in said pipe between the feed and bleed valves and a throttle lever constructed to alternately open and close said feed and bleed valves under normal conditions and to open both valves under abnor-



mal conditions, said throttle lever consisting of two parts having a detachable engagement with each other.

1,343,858. INTERNAL-COMBUSTION ENGINE. JENS D. WEIN, Troy, N. Y., assignor to Wein Manufacturing Corporation, Troy, N. Y. Filed Feb. 8, 1919. Serial No. 275,924. 2 Claims. (Cl. 123—25.)



1. In an engine, an exhaust manifold, an intake manifold arranged within the exhaust manifold and having a neck portion, a steam generating tank arranged above the intake manifold and within the confines of the exhaust manifold, a water tank arranged above the exhaust manifold and communicating with one end of the said generating tank, a pipe leading from the opposite end of said generating tank above the exhaust manifold, said pipe being returned within the exhaust manifold and extended to provide a number of convolutions surrounding the said generating tank, a coupling connected with one end of the final convolutions, an air intake pipe leading in to said exhaust manifold and associated with said coupling, whereby the steam and air is thoroughly mixed in said coupling, a nozzle projecting within the neck of said intake manifold, and a pipe establishing communication between said nozzle and the coupling for the purpose specified.

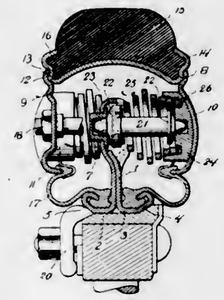
1,343,859. WINDOW-SHADE ATTACHMENT. MARTIN WARNER and CHARLES WHETSTONE, Akron, Ohio. Filed Mar. 9, 1920. Serial No. 364,600. 3 Claims. (Cl. 156—24.)



3. A shade roll holder comprising stationary slides mounted upon the window frame, brackets adjustable on

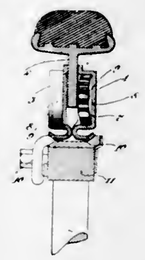
said slide, a spring pressed pivoted latch element carried by said bracket to engage its support to hold the bracket in adjusted position, a guide pin carried by the bracket, flexible elements terminally secured to said latch and trained over said guide pin, a pulley journaled at the top of each slide, one of said cables being trained over said pulley and adapted to effect the release of the latch element and elevate the bracket, the other of said flexible elements being adapted to effect the release of said elements and lower said bracket.

1,343,860. TIRE. CHARLES E. WILLIAMS, Pittsburgh, Pa. Filed Mar. 8, 1918. Serial No. 221,227. 3 Claims. (Cl. 152—32.)



1. A tire comprising an annulus, a tread member including detachable side elements, spindles having a rocking connection with the side elements and said annulus, springs interposed between the side elements and annulus and bolts rigidly connecting the side elements together and having a loose connection with said annulus.

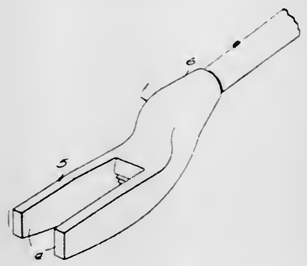
1,343,861. TIRE. CHARLES E. WILLIAMS, Pittsburgh, Pa. Filed Oct. 15, 1918. Serial No. 258,168. 1 Claim. (Cl. 152—38.)



A tire comprising a tread member having an annular flange, a pair of side members slidably receiving said flange, pins projecting from said flange, and coil springs each mounted in a pocket formed in the side member and bowed in a direction toward the flange and connected thereto.

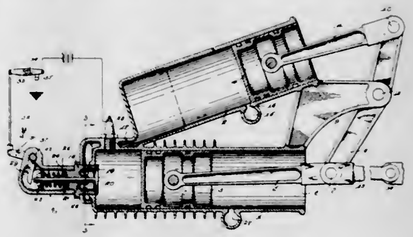
1,343,862. FLOOR-LIFTING DEVICE. ROY W. WILLIAMS, Utica, S. D. Filed June 15, 1918. Serial No. 240,125. 1 Claim. (Cl. 254—131.)

A lifting tool comprising an enlarged head substantially circular in cross sectional configuration, a socketed shank formed on the head, longitudinally disposed medially enlarged spaced parallel arms formed integrally with and extending from the head, the curved surface of the head between and beneath the arms being serrated to provide a



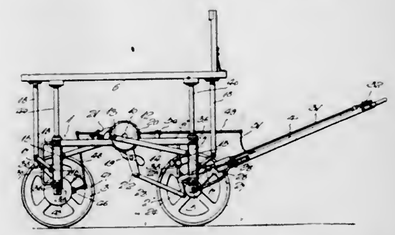
gripping portion, and the curved surface of the head above the arms being unbroken to provide an abutment for an object acted upon.

1,343,863. INTERNAL-COMBUSTION ENGINE. BENJAMIN F. BAUGHMAN, Columbus, Ohio. Filed Oct. 17, 1919. Serial No. 331,366. 6 Claims. (Cl. 123—65.)



1. In an internal combustion engine of the two cycle variety, a substantially horizontal working cylinder, a compression cylinder located above and in angular relationship with said working cylinder, pistons mounted in said cylinders and articulately connected to reciprocate in opposition to each other, a valve conduit leading from the lower end of said compression cylinder to the head of said working cylinder, and an intake manifold opening into said compression cylinder at a position contiguous to the end of the outward stroke of its piston, and said manifold being situated upon the underneath portion of the compression cylinder.

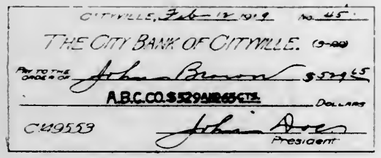
1,343,864. VERTICALLY-ADJUSTABLE HAND-TRUCK. HARRY R. CLARK, Golden City, Mo. Filed July 24, 1919. Serial No. 313,098. 7 Claims. (Cl. 254—2.)



1. In an adjustable truck, a wheeled frame having a tongue, a platform, a ratchet wheel mounted on said

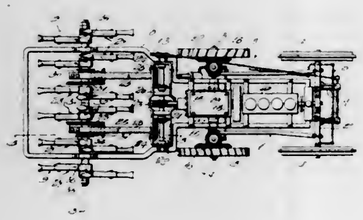
frame and connected with said platform for raising the same when said wheel is turned, a pawl engaging said ratchet wheel, means controlled by oscillation of said tongue for operating said pawl to turn said wheel, and a releasable dog mounted on said frame and engaging said wheel to hold the platform in raised position.

1,343,865. CHECK. DOUGLAS F. FESLER, Evanston, Ill., assignor to Hedman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1919. Serial No. 278,466. 1 Claim. (Cl. 283—9.)



A device of the class described, having printed and serrated thereon advertising indicia pertaining to and individual to the party whose account is to be charged by the instrument and similarly printed and serrated indicia representing the value of the instrument, the advertising indicia being on the same line with and located so close to the valuation indicia that the two forms of indicia together constitute a single continuous legend, which legend, by its continuity, insures that the legend, in its entirety, was placed upon the instrument by the drawer thereof.

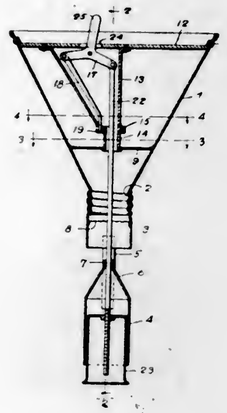
1,343,866. MOTOR-DRIVEN AGRICULTURAL MACHINE. LEMUEL AUSTIN GREENE, Greenville, S. C. Filed July 1, 1919. Serial No. 307,943. 6 Claims. (Cl. 97—71.)



1. In an agricultural implement, a portable motor-carrying frame, and combined earth working and frame propelling means, consisting of two sets of rotary earth diggers mounted on a common axis on said frame, and means for oppositely driving the two sets of diggers from the motor.

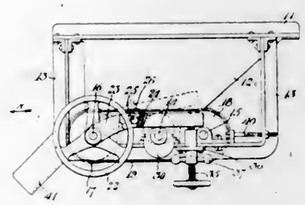
1,343,867. AUTOMATIC SELF-CLOSING FUNNEL. GEORGE H. GROVE, Harrisburg, Pa. Filed July 14, 1919. Serial No. 310,560. 3 Claims. (Cl. 226—37.)

1. A funnel comprising an inverted cone-shaped body, a spout carried at the lower end of said body, a partition extending transversely across said body at the lower end thereof and being provided with a valve seat, a bar extending transversely across said body at the upper end thereof, a housing supported within said body upon said partition and said bar, a valve disposed upon said seat, a float disposed in said spout, a lever fulcrumed within



said housing, and rods connecting said float and said valve with said lever whereby said valve is closed when said float is occupying its uppermost position.

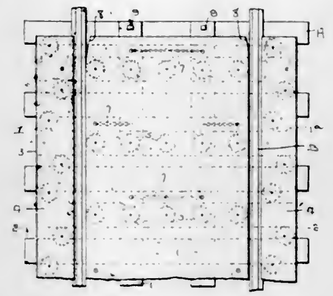
1,343,868. ORE-FEEDER. CHARLES C. HAMILL, Randsburg, Calif. Filed May 7, 1919. Serial No. 295,504. 2 Claims. (Cl. 83—44.)



1. An ore feeder comprising a frame, a driven shaft turning in bearings mounted on said frame, an idler shaft turning in bearings mounted on said frame, a driving shaft located between said driven and idler shafts, turning in bearings mounted on said frame, a belt wheel rigidly fixed on said driven shaft, a belt wheel on said idler shaft, an endless belt passing around both of said belt wheels, a driven wheel rigidly fixed on said driven shaft, an arm pivoted and turning on said driven shaft, means carried by said arm for engaging and driving said driven wheel when said arm moves in one direction, said means being inoperative when said arm moves in the opposite direction, a cam secured on said driving shaft situated below said arm and lifting it to actuate said driven wheel, a screw threaded in a member fixed to said frame below said arm, the upper end of said screw forming a stop for the downward travel of said arm, and means for locking said screw.

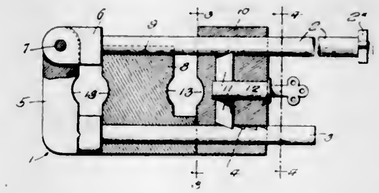
1,343,869. RAILROAD-CROSSING SHOCK-ABSORBER. RUSSELL R. HARGRAVE, Pasadena, Tex. Filed Mar. 9, 1920. Serial No. 364,488. 4 Claims. (Cl. 238—8.)

1. A railroad crossing of the type indicated comprising supporting members, members carried above the supporting members constituting a crossing, means for resiliently mounting the crossing members upon the supporting mem-



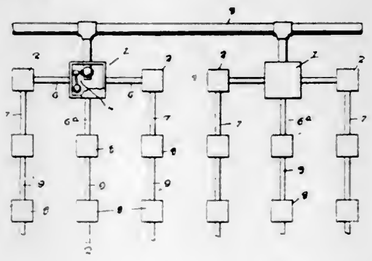
bers, and means for preventing swaying and excess movement of the crossing members.

1,343,870. AUTOMOBILE-LOCK. NEPHANUS E. JAMES, Birmingham, Ala. Filed Aug. 21, 1919. Serial No. 318,922. 2 Claims. (Cl. 70—126.)



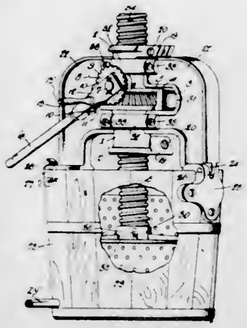
1. A lock comprising a yoke having an outwardly swinging arm, a lock block adjacent the inner end of the yoke pivoted on one arm and having means coacting with the other arm to normally hold said block against pivotal movement, a second lock block slidable on the yoke arms and removable from at least one thereof, and means for locking said second block.

1,343,871. IRRIGATION MEANS. WILLIAM H. LEWIS, Atwell, Colo. Filed Aug. 18, 1919. Serial No. 318,226. 4 Claims. (Cl. 61—13.)



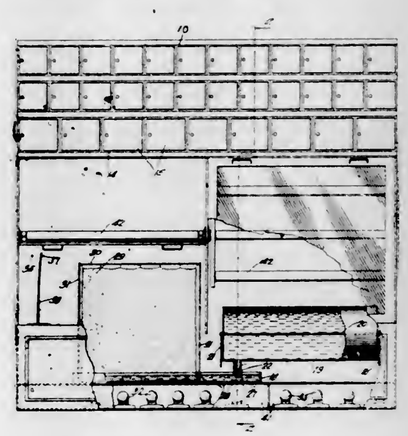
1. Irrigation means comprising a container adapted to be connected with a source of water supply and to be arranged upright in the ground, a float valve in said container and arranged to control the supply of water thereto, a sub-container adapted to be disposed in the ground and below the surface thereof and in spaced relation to the main container and closed at its bottom and having a removable cover, a conduit intermediate the main container and the sub-container, and a distributing pipe connected with the sub-container.

1,343,872. JACK. CHARLES J. LIVERING, St. Petersburg, Fla. Filed Oct. 4, 1919. Serial No. 328,397. 5 Claims. (Cl. 100—44.)



1. A mechanism for the purpose set forth comprising a frame adapted to rest upon a receptacle, a body supported within said frame, a worm mounted in the body for endwise movement therethrough and carrying a follower, and means on said body for effecting endwise movement of said screw, said means, the body and the screw being removable together from the frame.

1,343,873. HUMIDIFYING APPARATUS. VICTOR W. MCADAMS, Denver, Colo. Filed Mar. 12, 1918. Serial No. 221,897. 3 Claims. (Cl. 236—44.)

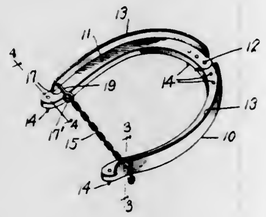


3. A structure of the character described, comprising a case, an evaporating pan in the case, a tank in the case, means for automatically supplying water from the tank to the pan as it evaporates from the pan, heating means in the case for heating the water in the pan, heating means in the case for drying the air of the the case, and automatic means for bringing either heating means into action according to predetermined condition of humidity in the case.

1,343,874. HORSESHOE. ALGOT EBINHART MICKELSON, Devlin, Ontario, Canada. Filed June 14, 1919. Serial No. 304,349. 2 Claims. (Cl. 168—19.)

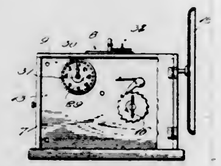
1. A horseshoe comprising a pair of pivotally connected sections, a hook-like element carried by one section,

a chain associated with the other section, and a lever pivoted on said element adapted to be passed through a link



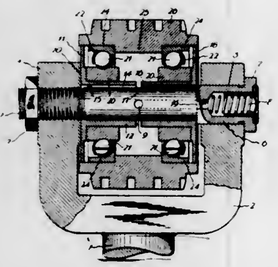
in said chain to hold the latter engaged with said element.

1,343,875. DEVICE FOR REGISTERING EXPLOSIONS. ALBA DAVID REESE, Bisbee, Ariz. Filed July 22, 1918. Serial No. 246,172. 2 Claims. (Cl. 235—91.)



1. In a device for registering shocks resulting from explosions, a plate mounted for movement and adapted to be moved by the shock forces and to control the registering operations, and shielding means to shield one side of said plate against at least a part of the shock forces so as to avoid counter pressure, substantially as described.

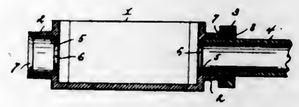
1,343,876. DRESSING-TOOL. WILLIAM E. ROSS, Cleveland, Ohio, assignor to The Ross Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 30, 1918. Serial No. 260,263. 8 Claims. (Cl. 64—36.)



1. In a tool for dressing grinding wheels, in combination, a rotary dressing tool, a yoke, a shouldered shaft in said yoke, ball bearings for said tool, and means whereby adjustment of said bearings between the shoulder of the shaft and one of the arms of the yoke is effected.

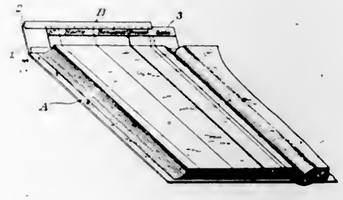
1,343,877. PIPE CONNECTION FOR JUNCTION-BOXES AND THE LIKE. WALTER M. WALTMAN, West New Brighton, N. Y., assignor to Raymond S. Hart, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,539. 5 Claims. (Cl. 285—26.)

4. In a device of the character described, the combination with a pipe receiving exteriorly threaded nipple provided with a tapered seat, a nut adapted to have screw-threaded engagement with said nipple and a ring interposed between the nut and the said seat, designed to encircle the pipe and to be forced into locking engagement with said seat and pipe.



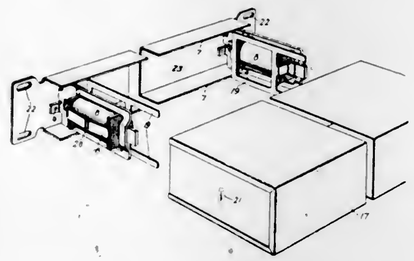
1,343,878. [WITHDRAWN.]

1,343,879. OFFICE-LEDGER. JACOBUS FRANCISCUS GERARDUS JONGEPIER, Schiedam, Netherlands. Filed July 11, 1919. Serial No. 310,222. 3 Claims. (Cl. 283—63.)



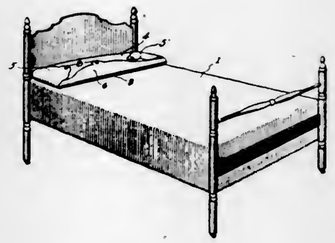
1. An indicator for office ledger including a strip adapted to be swingingly secured to the back of the ledger so as to be swung inside of the ledger when not in use or else swung outwardly and arranged above the upper edge of the ledger, and another strip slidably mounted on the swingable strip and provided with indicia indicative of and corresponding to the columns on the leaves of the ledger.

1,343,880. CASING AND SUPPORT FOR ELECTRICAL APPARATUS. WILLIAM O. BECK, Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 24, 1917. Serial No. 203,784. 6 Claims. (Cl. 200—98.)



1. A mounting for relays and the like comprising a supporting element having openings therein, members carried by said element provided with means to hold relays having various terminal arrangements, said members adjustable to position the terminals of the relays in registry with the openings in the supporting element, and a cover coöperating with said supporting element to inclose the relays carried thereby.

1,343,881. BEDSPREAD. INGERMARIE CHRISTENSEN, Seattle, Wash. Filed Dec. 17, 1919. Serial No. 345,610. 3 Claims. (Cl. 5—3.)



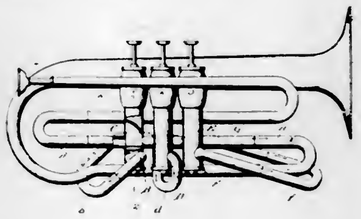
1. A bed spread comprising a body portion, a pillow enveloping portion formed as a part thereof at one end of the spread; said enveloping portion comprising flaps foldable about and adapted to conceal pillows therein.

1,343,882. SPANNER. JOHN JAMES WOODWARD, Birmingham, England, assignor of one-half to Joseph Colesby, Birmingham, England. Filed Mar. 3, 1920. Serial No. 363,069. 5 Claims. (Cl. 81—185.)



5. A spanner having in combination a centrally disposed member provided with a nut face engaging part in the two ends of same, a multiple of nut face engaging members pivotally secured at each end of said centrally disposed member, being of varying sizes and arranged to nest one within the other and to be turned back onto the centrally disposed member when not in use.

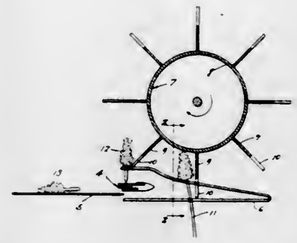
1,343,883. CORNET. JAMES W. CALDERWOOD, Washington, D. C. Filed July 30, 1918. Serial No. 247,362. 8 Claims. (Cl. 84—8.)



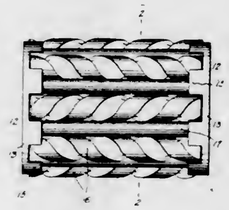
1. A cornet or similar musical instrument having sinuous tubing, valves and crooks, a valve tube, valves interposed in said tube, a crook communicating at one end with a first valve and at the other end with the valve tube at a point between said first valve and the next adjacent valve.

1,343,884. CORN-HEADER. WILLIAM FRANCIS HAMILTON, Ventura, Calif. Filed Oct. 1, 1919. Serial No. 327,781. 9 Claims. (Cl. 56—220.)

1. In a header, the combination of a horizontally disposed cutting means, a dividing comb extending forwardly thereof, an equalizing feeder traveling downwardly toward said cutting means in advance thereof, impellers extending from said feeder for sweeping the plants being reaped toward said cutting means, and fingers carried by said feeder disposed to enter between the teeth of said comb.

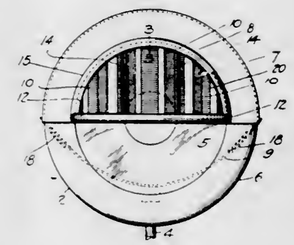


1,343,885. ROLLER-BEARING AND METHOD OF MAKING THE SAME. ALLEN H. JONES, Belleville, N. J. Filed Dec. 10, 1918. Serial No. 266,105. 1 Claim. (Cl. 64—61.)



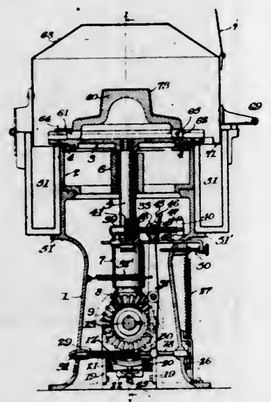
A solid main load supporting bearing roller comprising a twisted solid bar of metal of rectangular oblong cross section throughout its length, said bar being twisted throughout its length.

1,343,886. DIMMER FOR AUTOMOBILE-HEADLIGHTS. OLIVER C. PATTON, Denver, Colo., assignor to The Auto Dimmer Company, a Corporation of Colorado. Filed Aug. 14, 1918. Serial No. 249,818. 3 Claims. (Cl. 240—48.4.)



3. A dimmer for automobiles comprising a shade of a substantially semi-conic form composed of a rim and edge-to-edge adjoining strips of translucent material set therein, and means for its connection adjoining the upper portion of the lens-holding rim of an automobile head-light, whereby to extend slantingly in front of the upper portion of the lens of the same.

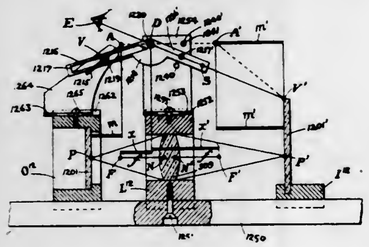
1,343,887. APPARATUS FOR SIZING AND SHAPING HATS AND THE LIKE. ALBERT SLOCUM, Milwaukee, Wis. Filed July 15, 1916. Serial No. 109,412. 14 Claims. (Cl. 91—42.)



1. In sizing apparatus the combination of a rotary support, means for rotating said support, a form on which the article to be sized is shaped and held mounted on said support, a size receptacle adjacent said support, a hood adapted to catch size thrown by centrifugal force from an article on said form and to return the same into said receptacle, and means for heating and maintaining at the required temperature size contained in said receptacle.

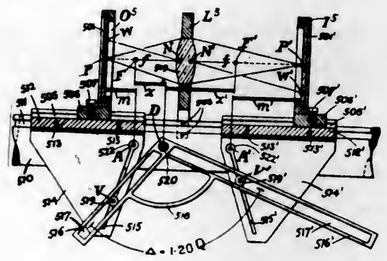
9. In sizing apparatus the combination of a standard, a rotary table mounted on said standard and provided with means for securing articles to be sized in place on the table, a size receptacle provided with a removable closure surrounding the table and adapted to catch size thrown therefrom, a driving shaft having a gear and clutch connection with the table, a lever for operating the clutch, a spring connected with the lever and tending to throw the clutch out of engagement, a latch working with said lever to hold the clutch in engagement, and an automatic timing device adapted to disengage the latch and release said lever when the table has run a certain length of time.

1,343,888. PHOTOGRAPHIC CAMERA. JOSEPH BECKER, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed Dec. 11, 1915, Serial No. 66,371. Divided and this application filed Apr. 16, 1919. Serial No. 290,486. 4 Claims. (Cl. 88—24.)



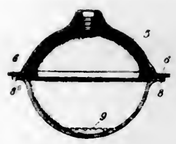
1. The combination, with a copying or enlarging camera comprising three relatively movable frames, to wit: (1) an object frame; (2) a lens frame; (3) and an image frame; also means for relatively guiding said three frames to permit of placing and holding them in any conjugate relation necessary to secure the sharpest image of any desired size; of an optical focuser for said camera, adapted to indicate, by single sight, at all times, and for all positions of the said three camera frames, the exact focal condition of the camera; said focuser comprising two relatively movable structural points; also connections between said two structural points and the said three camera frames, such that said two structural points shall be in apparent register or alinement whenever, and only when, the said camera is in focus.

1,343,889. COPYING OR ENLARGING CAMERA. JOSEPH BECKER, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed Dec. 11, 1915, Serial No. 66,371. Divided and this application filed Apr. 21, 1919. Serial No. 291,472. 2 Claims. (Cl. 88—24.)



1. A copying or enlarging camera having a wholly mechanical focuser which is of the radial cam type, and whose basic angle, herein designated by the delta (Δ), is larger than a right angle.

1,343,890. BULB FOR TANK-VALVES. ARTHUR T. HOPKINS, Cleveland, Ohio, assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Apr. 13, 1914. Serial No. 831,608. 2 Claims. (Cl. 4—5.)

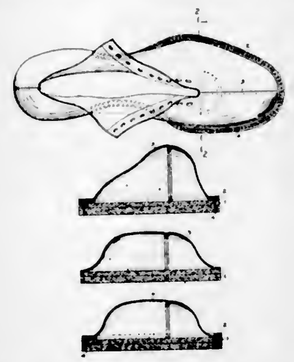


1. A bulb for tank valves having an upper portion comprising comparatively flexible material and a reinforcing element of less flexible material secured thereto throughout its entire upper surface, and having a socket for a valve stem in said reinforcing element.

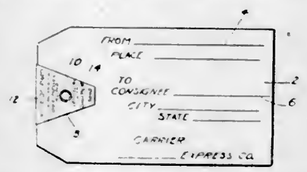
REISSUES.

14,882. METHOD OF MAKING SHOES. GEORGE POLLOCK, San Francisco, Calif. Filed Apr. 21, 1919. Serial No. 291,634. Original No. 1,290,654, dated Jan. 7, 1919. Serial No. 237,284, filed May 29, 1918. 1 Claim. (Cl. 12—142.)

The method of forming a shoe which consists of forming a sole and upper sections having the extreme front portions of their inner edges curved convexly toward each other, said sections being of such size and form that their outer edges can exactly register with the edge of the sole, and that, when their outer edges so register and their outer marginal portions rest with inner surfaces next-adjacent to the sole, and their inner edges are stitched together, they inclose with the sole a space substantially of the size of the foot to be fitted, then so stitching together said marginal portions and the sole so registering with said edges, and then shaping the upper to the final form.

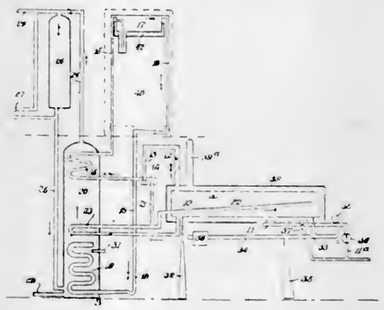


14,883. SHIPPING-TAG. LOUIS F. TROJA, Kansas City, Mo., assignor of one-half to Geo. R. Ludolph, Kansas City, Mo. Filed Aug. 20, 1919. Serial No. 318,717. Original No. 1,246,499, dated Nov. 13, 1917, Serial No. 175,961, filed June 20, 1917. 3 Claims. (Cl. 40—27.)



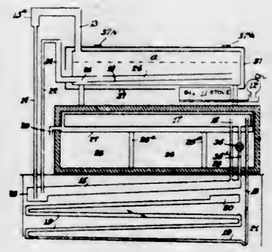
1. A shipping tag comprising a card having a space for the name and address of a consignee, said card being provided with reinforcing material at its tag-attaching portion, the exposed face of said reinforcing material being marked with indicia identifying the shipment to which the tag is to be attached.

14,884. REFRIGERATING-MACHINE. HENRY E. WILLSIE, Darien, Conn., assignor to The American Refrigeration Company, a Corporation of New Jersey. Filed Mar. 11, 1920. Serial No. 365,039. Original No. 1,314,779, dated Sept. 2, 1919, Serial No. 859,727, filed Sept. 2, 1914. 22 Claims. (Cl. 62—118.)



1. In a refrigerating machine, a still-absorber having a pivotal support adjacent one of its ends, a pivotally supported lever adapted to support the other end of said still-absorber, a burner for heating said still-absorber, a valve for controlling the supply of fuel to said burner, and operating means intermediate said lever and said valve.

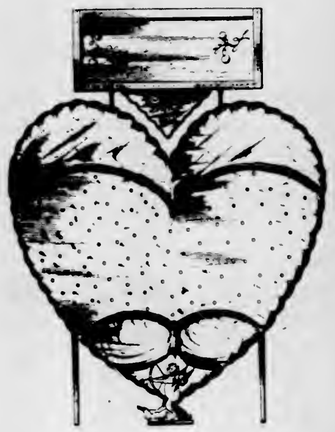
14,885. ICE-MACHINE. HENRY E. WILLSIE, Darien, Conn., assignor to The American Refrigeration Company, a Corporation of New Jersey. Filed Mar. 11, 1920. Serial No. 365,040. Original No. 1,290,455, dated Jan. 7, 1919, Serial No. 823,066, filed Mar. 7, 1914. 21 Claims. (Cl. 62—118.)



6. In an ice making machine the combination of a still-absorber, an evaporator connected to the still-absorber, a coil closed at the top, a pipe connecting the bottom of the coil with the evaporator.

DESIGNS.

55,447. FRIENDSHIP-TOKEN. MARTHA V. BAUER, Washington, D. C. Filed Sept. 19, 1919. Serial No. 325,020. Term of patent 14 years.



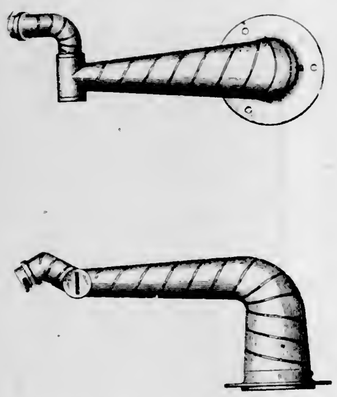
The ornamental design for a friendship token, as shown.

55,448. TALKING-MACHINE CABINET. JOBBY BELPEDIO, Bridgeport, Conn. Filed Apr. 16, 1920. Serial No. 374,481. Term of patent 14 years.



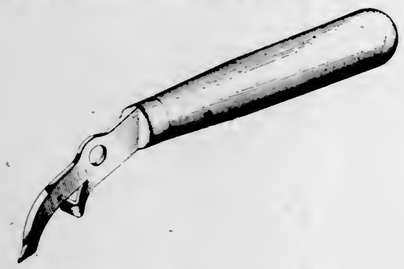
The ornamental design for a talking machine cabinet, as shown.

55,449. TONE-ARM. MORRIS BORRIS, Brooklyn, N. Y. Filed Apr. 7, 1920. Serial No. 372,080. Term of patent 14 years.



The ornamental design for a tone arm as shown.

55,450. CAN-OPENER. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boyle Needle Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1919. Serial No. 307,023. Term of patent 14 years.



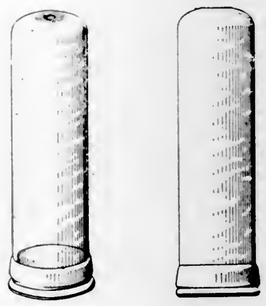
The ornamental design for a can-opener, as shown.

55,451. HANDBAG. EUGENE CARRAINE, Philadelphia, Pa. Filed Jan. 28, 1919. Serial No. 273,652. Term of patent 3½ years.



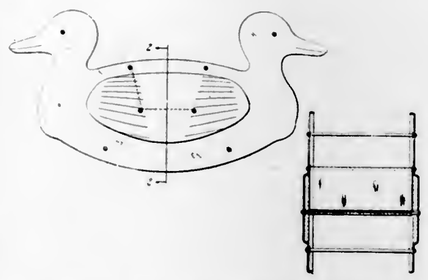
The ornamental design for a hand bag, as shown.

55,452. THERAPEUTIC VACUUM APPARATUS. WINSLOW W. CHASE, Washington, D. C. Filed Nov. 8, 1917. Serial No. 200,983. Term of patent 7 years.



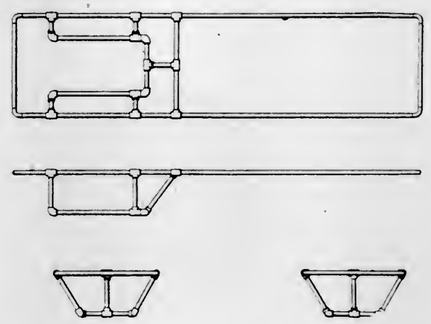
The ornamental design for a therapeutic vacuum apparatus, as shown.

55,453. CHILD'S ROCKER. ARTHUR B. CHRISTOPHER, St. Louis, Mo., assignor to Christopher Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 14, 1920. Serial No. 358,671. Term of patent 7 years.



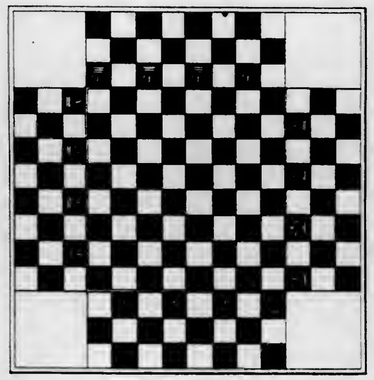
An ornamental design for a child's rocker as shown.

55,454. AUTOMOBILE-FRAME. HARRY E. CROSS, Rockton, Ill. Filed Nov. 29, 1919. Serial No. 341,541. Term of patent 14 years.



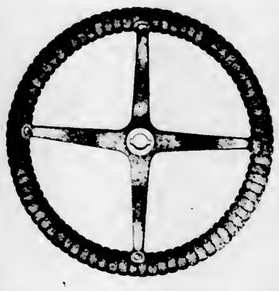
The ornamental design for an automobile frame, as shown.

55,455. CHECKER-BOARD. ALFRED DAY, Philadelphia, Pa. Filed Mar. 17, 1920. Serial No. 366,708. Term of patent 14 years.



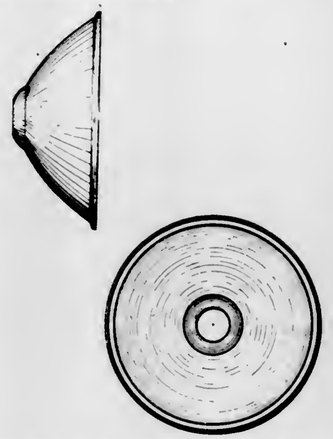
The ornamental design for a checker board as shown.

55,456. STEERING-WHEEL FOR VEHICLES. CHARLES H. ELDON, Williamsport, Pa. Filed Feb. 9, 1920. Serial No. 357,365. Term of patent 14 years.



The ornamental design for a steering wheel for vehicles, as shown.

55,457. REFLECTOR. HAROLD G. FITZ GERALD, Los Angeles, Calif. Filed Nov. 19, 1917. Serial No. 202,881. Term of patent 14 years.



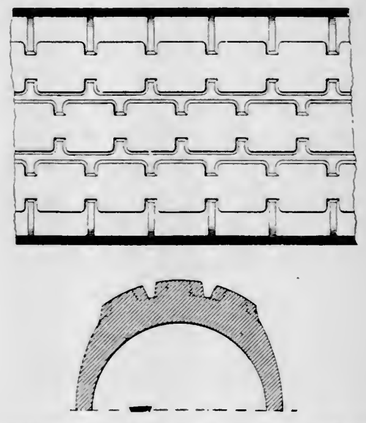
The ornamental design for a reflector, as shown.

55,458. COLLAR-STUD. HENRY C. FREED, Philadelphia, Pa. Filed Nov. 22, 1919. Serial No. 339,960. Term of patent 7 years.



The ornamental design for a collar stud as shown.

55,459. AUTOMOBILE-TIRE. JACOB B. GABELINE, Burlington, Iowa, assignor to Standard Four Tire Company, Keokuk, Iowa, a Corporation of Iowa. Filed Mar. 4, 1920. Serial No. 363,325. Term of patent 7 years.



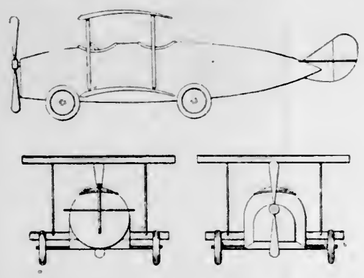
The ornamental design for an automobile tire as shown.

55,460. NUTCRACKER. ANTHONY W. GEIGAND and JOSEPH J. GEIGAND, Buffalo, N. Y. Filed Apr. 15, 1920. Serial No. 374,234. Term of patent 14 years.



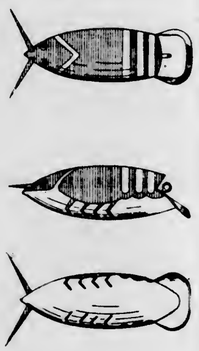
The ornamental design for a nutcracker, as shown.

55,461. AUTOMOBILE-BODY. RAOUL J. GRUENBERG, San Francisco, Calif. Filed Jan. 19, 1920. Serial No. 352,626. Term of patent 3½ years.



The new and ornamental design for an automobile body substantially as shown.

55,462. ARTIFICIAL BAIT. HARRY G. HAMILTON, Youngstown, Ohio. Filed July 23, 1919. Serial No. 312,865. Term of patent 7 years.



The ornamental design for an artificial bait as shown.

55,463. FRAME MEMBER FOR AUTOMATIC SPRINKLER-HEADS OR SIMILAR ARTICLES. JOHN R. HAMILTON, Yonkers, N. Y., assignor to Automatic Sprinkler Company of America, New York, N. Y., a Corporation of New York. Filed July 22, 1919. Serial No. 312,581. Term of patent 14 years.



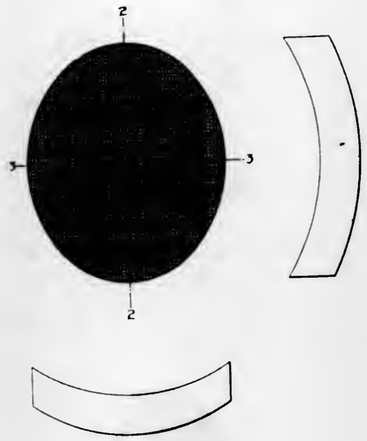
The ornamental design for a frame member for automatic sprinkler heads or similar articles, substantially as shown.

55,464. SHADE FOR LIGHTING-FIXTURES. WILLIAM F. HANDEL, Meriden, Conn., assignor to The Handel Company, a Corporation of Connecticut. Filed Sept. 19, 1918. Serial No. 254,874. Term of patent 3½ years.



The ornamental design for a shade for lighting fixtures, as shown.

55,465. AUTOMOBILE-RADIATOR CORE. LAURENCE G. HANMER, Brooklyn, N. Y., assignor to The A-Z Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1918. Serial No. 213,602. Term of patent 14 years.



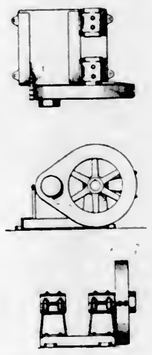
The ornamental design for an automobile radiator core, as shown.

55,466. PLAYING-CARD. MAURICE E. HARRIS, Chicago, Ill., assignor to H. C. Evans & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 22, 1919. Serial No. 339,953. Term of patent 7 years.



The ornamental design for a playing card, substantially as shown.

55,467. REDUCTION-GEAR BASE. MOSES ALBERT HARRIS, Westfield, N. J. Filed July 3, 1919. Serial No. 308,671. Term of patent 3½ years.



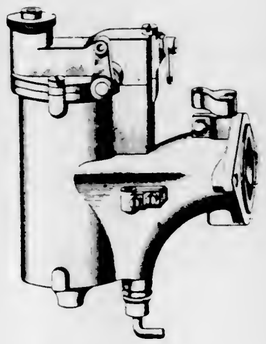
The ornamental design for a reduction gear base as shown.

55,468. PAIR OF EYEGLASSES. LUTHER A. HEILIG, San Diego, Calif. Filed Jan. 2, 1920. Serial No. 349,072. Term of patent 14 years.



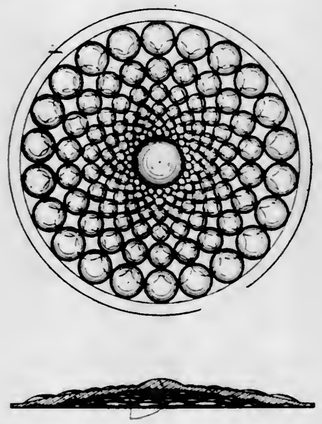
The ornamental design for a pair of eyeglasses as shown.

55,469. CARBURETER BODY OR CASING. CHARLES E. JOHNSON, Denver, Colo., assignor of one-third to Simon Bitterman and one-third to William A. Johnson, Denver, Colo. Filed May 13, 1919. Serial No. 296,938. Term of patent 14 years.



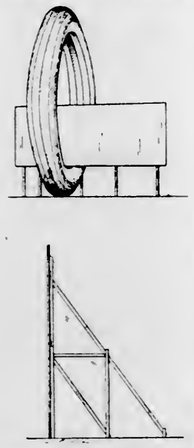
The ornamental design for a carbureter body or casing as shown.

55,470. HEADLIGHT-LENS. GUSTAF JOHNSON, Chicago, Ill., assignor to Emil G. Johanson, Chicago, Ill. Filed Mar. 6, 1918. Serial No. 220,876. Term of patent 7 years.



The ornamental design for a headlight lens as shown.

55,471. ADVERTISING-SIGN. RUSSELL R. JOHNSTONE, Wauwatosa, Wis. Filed Mar. 13, 1920. Serial No. 365,669. Term of patent 7 years.



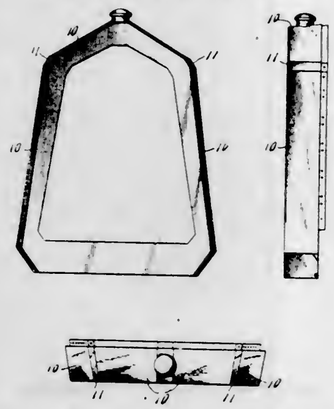
The ornamental design for an advertising sign, as shown.

55,472. OIL-CAN. JOHN D. KARLE, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 23, 1918. Serial No. 218,911. Term of patent 14 years.



The ornamental design for an oil can substantially as shown.

55,473. AUTOMOBILE-RADIATOR. WILLIAM A. KING, Memphis, Tenn. Filed Apr. 12, 1920. Serial No. 373,402. Term of patent 14 years.



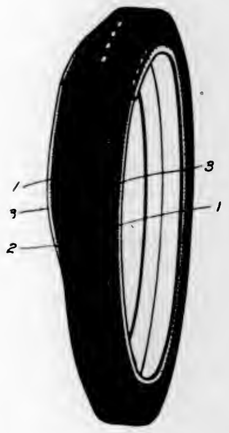
The ornamental design for an automobile radiator herein shown and described.

55,474. POWDER-PUFF. WILLIAM H. KOON, Chicago, Ill. Filed June 5, 1919. Serial No. 302,074. Term of patent 7 years.



The ornamental design for a powder puff, as shown.

55,475. TIRE-COVER. PAUL M. LOCKWOOD, Kansas City, Mo. Filed Apr. 17, 1919. Serial No. 290,865. Term of patent 7 years.



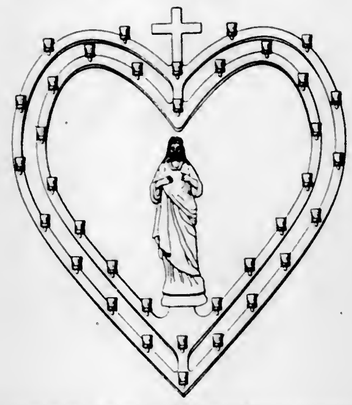
The ornamental design for a tire cover, as shown and described.

55,476. CANDELABRUM FOR DEVOTIONAL PURPOSES. WILLIAM J. LORENZ, Cleveland, Ohio, assignor to Will and Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,260. Term of patent 7 years.



The ornamental design for a candelabrum for devotional purposes as shown.

55,477. CANDELABRUM FOR DEVOTIONAL PURPOSES. WILLIAM J. LORENZ, Cleveland, Ohio, assignor to Will and Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,261. Term of patent 7 years.



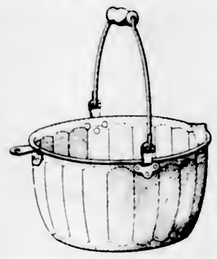
The ornamental design for a candelabrum for devotional purposes as shown.

55,478. CANDELABRUM FOR DEVOTIONAL PURPOSES. WILLIAM J. LORENZ, Cleveland, Ohio, assignor to Will and Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,262. Term of patent 7 years.



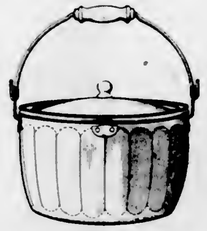
The ornamental design for a candelabrum for devotional purposes as shown.

55,479. PRESERVING-KETTLE. WALTER LUTTRINGHAUS, Maywood, Ill. Filed Feb. 12, 1917. Serial No. 148,226. Term of patent 14 years.



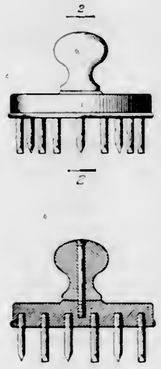
The ornamental design for a preserving kettle as shown.

55,480. BERLIN KETTLE. WALTER LUTTRINGHAUS, Maywood, Ill. Filed Feb. 19, 1917. Serial No. 149,682. Term of patent 14 years.



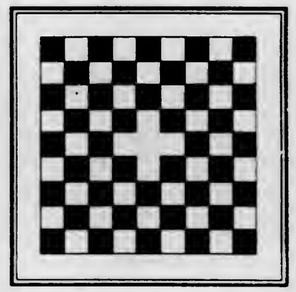
The ornamental design for a Berlin kettle as shown.

55,481. MEAT-TENDERING IMPLEMENT. WALTER MAECHLER, Chicago, Ill., assignor to Lee E. Daniels, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,397. Term of patent 14 years.



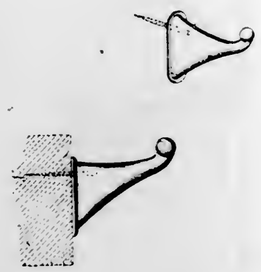
The ornamental design for a meat-tendering implement, as shown.

55,482. GAME-BOARD. HUGH JOHN MCINTYRE and WALTER JESSE WAKEFIELD, Winnipeg, Manitoba, Canada. Filed Sept. 3, 1918. Serial No. 252,497. Term of patent 14 years.



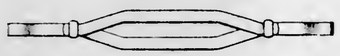
The ornamental design for a game board as shown.

55,483. HOOK. KENJIRO OKAMURO, Honolulu, Hawaii. Filed June 6, 1919. Serial No. 302,354. Term of patent 14 years.



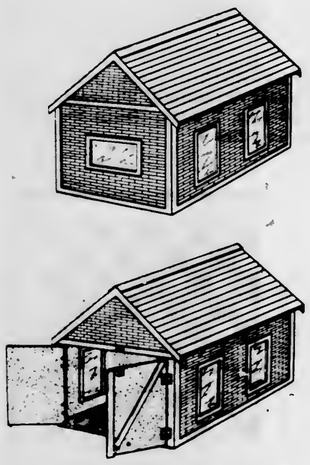
The ornamental design for a hook as shown.

55,484. AUTOMOBILE-BUMPER. WILLIAM G. PANCOAST and WILLIAM J. GROTENHUIS, Chicago, Ill., assignors to Biflex Products Company, Waukegan, Ill., a Corporation of Illinois. Filed Feb. 21, 1920. Serial No. 360,399. Term of patent 14 years.



The ornamental design for an automobile bumper, as shown.

55,485. TOY GARAGE. OLNEY R. PAYNE, Philadelphia, Pa. Filed Feb. 24, 1920. Serial No. 360,996. Term of patent 7 years.



The ornamental design for a toy garage as shown.

55,486. SPRAY DEVICE. GEORGE B. PICKOP, New Haven, Conn., assignor to The Malleable Iron Fittings Company, Branford, Conn., a Corporation of Connecticut. Filed Apr. 25, 1919. Serial No. 292,750. Term of patent 14 years.

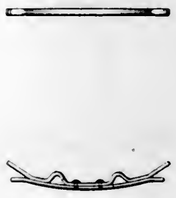


The ornamental design for a spray device, substantially as shown.

55,487. PINCER. HARRY ROZENSKE, Detroit, Mich. Filed Oct. 11, 1919. Serial No. 330,154. Term of patent 7 years.

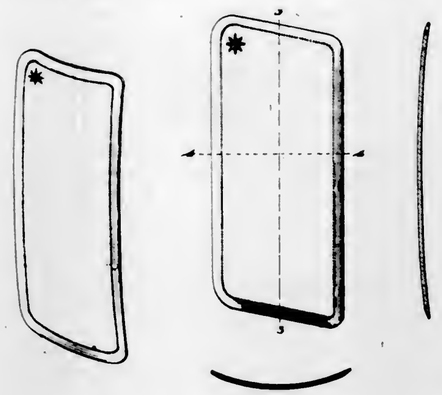
The ornamental design for a pincer, as shown.

55,488. COLLAR-HOLDER. SAMUEL SAMPSON, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,345. Term of patent 14 years.



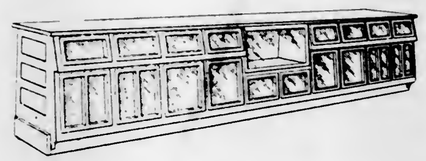
The ornamental design for a collar holder, as shown.

55,489. WIND-DEFLECTOR. ROLLA C. SHAW, Inglewood, Calif. Filed Mar. 25, 1920. Serial No. 368,756. Term of patent 7 years.



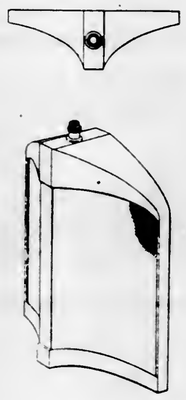
The ornamental design for a wind deflector, as shown.

55,490. DISPLAY-COUNTER. WILLIAM T. SHERER, Chicago, Ill. Filed Feb. 11, 1920. Serial No. 357,822. Term of patent 14 years.



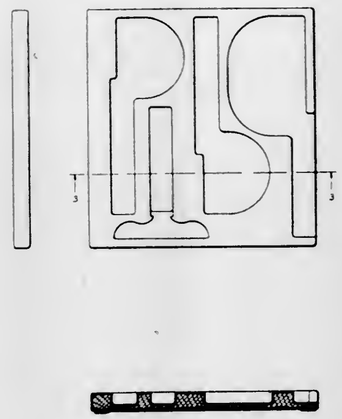
The ornamental design for a display counter as shown.

55,491. RADIATOR FOR AUTOMOBILE-VEHICLES. MAURICE HIPPOLYTE LOUIS SIZAIRE, Park Royal, London, England. Filed Apr. 13, 1920. Serial No. 373,560. Term of patent 14 years.



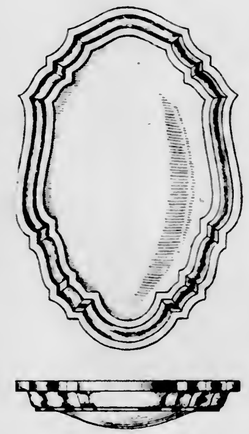
The ornamental design for an automobile radiator as shown.

55,492. TOOL-TRAY. GEORGE M. TAYLOR, Hartford, Conn. Filed Dec. 3, 1919. Serial No. 342,276. Term of patent 14 years.



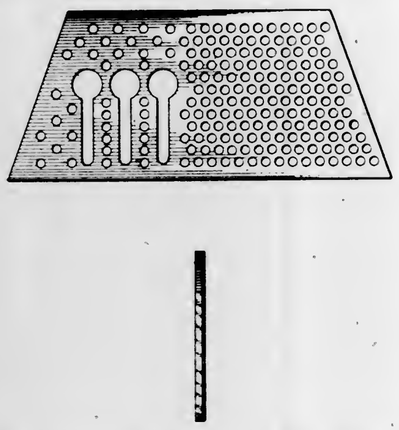
The ornamental design for a tool tray, as shown.

55,493. WALL-PLATE FOR LIGHTING-FIXTURES. GOTTFRIED WESTPHAL, Guttenberg, N. J., assignor to Shapiro & Aronson Inc., New York, N. Y., a Corporation of New York. Filed Apr. 30, 1918. Serial No. 231,752. Term of patent 3½ years.



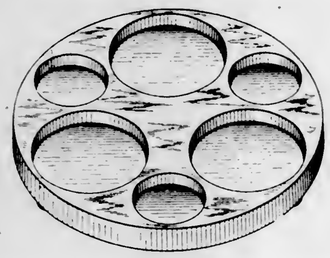
The ornamental design for a wall plate for lighting fixtures, as shown.

55,494. AUTOMOBILE-FOOTBOARD. JOSEPH M. WHITE, Danville, Ill. Filed May 28, 1919. Serial No. 300,495. Term of patent 7 years.



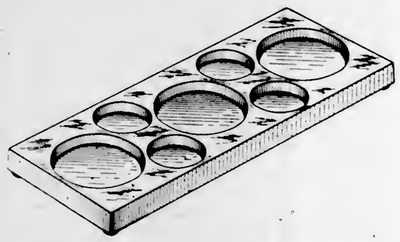
The ornamental design for an automobile footboard, as shown.

55,495. CASTER FOR CRUETS. WILLIAM L. WHITE, Old Orchard, Me. Filed July 5, 1919. Serial No. 308,906. Term of patent 7 years.



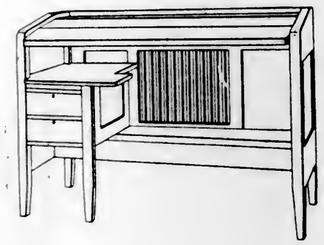
The ornamental design for a caster for cruets, as shown.

55,496. CASTER FOR CRUETS. WILLIAM L. WHITE, Old Orchard, Me. Filed July 5, 1919. Serial No. 308,907. Term of patent 7 years.



The ornamental design for a caster for cruets, as shown.

55,497. DESK. GEORGE P. WIGGINTON, Kalamazoo, Mich. Filed Dec. 19, 1919. Serial No. 346,186. Term of patent 14 years.



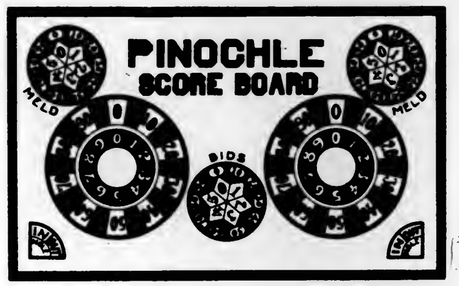
The ornamental design for a desk as shown.

55,498. SWORD HILT AND SCABBARD. CHARLES P. WOODBURY, Kansas City, Mo. Filed Oct. 6, 1919. Serial No. 328,917. Term of patent 3½ years.



The ornamental design for a sword hilt and scabbard as shown.

55,499. SCOREBOARD. JOHN ZIPP and JOHN P. MORBACH, Cleveland, Ohio. Filed Mar. 31, 1920. Serial No. 370,341. Term of patent 14 years.



The ornamental design for a scoreboard, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 15, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 83,173. (CLASS 19. VEHICLES NOT INCLUDING ENGINES.) HENDEE MANUFACTURING COMPANY, Springfield, Mass. Filed Dec. 9, 1914. Under ten-year proviso.

HENDEE

Particular description of goods.—Bicycles and Attachments Therefor, Such as Pedals, Foot-Rests, Luggage-Carriers, Grips, and Tandem Attachments.
Claims use since about Jan. 1, 1888.

Ser. No. 101,246. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SANITARY SPECIALTIES CO., Philadelphia, Pa. Filed Feb. 8, 1917.

PORCELOID

Particular description of goods.—Water-Closet Seats, Water-Closet Covers in the Form of Lids, Bath-Seats, Plumbing-Traps, Water-Closet Tanks, Waste-Pipes, Plumbing-Cocks, Plumbing Pipes, and Couplings, Drain-Boards, Shower-Bath Fixtures Comprising the Entire Shower-Bath Equipment of Piping, Heads, and Curtain-Bars, and Bath-Room Fittings and Fixtures Comprising Soap-Dishes, Toothbrush-Holders, and Toilet-Paper Holders.
Claims use since Nov. 17, 1909.

Ser. No. 101,635. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed Feb. 24, 1917.

Armand Armand

Particular description of goods.—Toilet-Soaps.
Claims use since July 27, 1916.

Ser. No. 102,379. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LINE DRIVE TRACTOR INC., Chicago, Ill. Filed Mar. 23, 1917.

THE Line-Drive Tractor

No claim being made for the mark apart from the particular form of the letters shown in the drawing.
Particular description of goods.—Tractors.
Claims use since Mar. 3, 1917.

Ser. No. 105,664. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PARALOID WORKS INC., Yonkers, N. Y. Filed Aug. 15, 1917.

CORONA

Particular description of goods.—Hair-Brushes, Clothes-Brushes, and Hat-Brushes.
Claims use since May 15, 1916.

Ser. No. 109,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. C. SMITH, Windsor, Canada, and Detroit, Mich. Filed Feb. 18, 1918.

ACEY

Particular description of goods.—Chemical Compounds, as Follows: Laxatives, Ichthyolic Salves and Ointments, Rectal and Vaginal Suppositories, Magnesia, Iodin, Acetyl-Salicylic Acid, Digestive Tablets, and Neuralgia and Grippe Tablets.
Claims use since Jan. 1, 1918.

Ser. No. 111,274. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed May 31, 1918.



Particular description of goods.—Telephones, Switchboards, Power-Boards, Telephone Field Sets, Telephone Bell-Boxes, Circuit-Breakers, Telephone Parts, Switchboard Parts, Power-Board Parts, Telephone-Field-Set Parts, Electrical Switches, Automatic Electromagnetically-Controlled Switches, Electricians' Tape, Electric Ignition-Coils, Electric Ignition-Distributers, Electric-Lighting Switches, and Electric Ignition-Switches.
Claims use since the 26th day of July, 1901.

Ser. No. 113,471. (CLASS 25. LOCKS AND SAFES.) JOHAN WALDEMAR LINDBERG, Stockholm, Sweden. Filed Sept. 28, 1918.

Bull-dog

Particular description of goods.—Attachments for Preventing the Displacement of Keys from Keyholes.
Claims use since May 14, 1918.

Ser. No. 114,072. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) W. J. ADAMS & CO., LIMITED, Manchester, England. Filed Nov. 7, 1918.



The trade-mark consists of a representation of an eagle standing with one of its talons resting on a heraldic wreath or crest bar and holding in its other talon a catapult the elastic of which it is pulling with its beak. The lining indicates shading and not color.
Particular description of goods.—Elastic Cords, Braids, and Tapes.
Claims use since September, 1899.

Ser. No. 114,226. (CLASS 43. THREAD AND YARN.) NAAMLOOZE VENNOOTSCHAP: J. A. CARP'S GARENFABRIEKEN, Helmond, Netherlands. Filed Nov. 18, 1918.



The lining on the drawing is not intended to indicate color.
Particular description of goods.—Thread and Yarn.
Claims use since the 17th of July, 1917.

Ser. No. 116,125. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COMPAGNIE D'APPLICATIONS MECANIQUES, Paris, France. Filed Feb. 25, 1919.

USCAM

Particular description of goods.—Ball-Bearings, Roller-Bearings, Balls for Ball-Bearings, Cages for Ball and Roller Bearings, Thrust Ball-Bearings, Thrust Roller-Bearings, Wall-Bracket Bearings, Belt-Pulleys, Coupling-Boxes, Grinding and Stamping Machines for Working Metal, Forging-Machines, Jacks, Wrenches, and Grinding-Mills for Working Metals.
Claims use since the 3d of January, 1919.

Ser. No. 116,126. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COMPAGNIE D'APPLICATIONS MECANIQUES, Paris, France. Filed Feb. 25, 1919.



The representation of a ball-bearing appearing in the drawing as a part of the mark is disclaimed apart from the mark as shown.
Particular description of goods.—Ball-Bearings, Roller-Bearings, Balls for Ball-Bearings, Cages for Ball and Roller Bearings, Ball Thrust-Bearings, Roller Thrust-Bearings, Wall-Bracket Bearings, Belt-Pulleys, and Coupling-Boxes.
Claims use since the 17th of December, 1915.

Ser. No. 116,207. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FRANK C. OSMERS, New York, N. Y. Filed Feb. 28, 1919.

VENUS PEARLS

Consists of the use of the words "Venus Pearls," no claim being made to the exclusive use of the word "Pearls."
Particular description of goods.—Imitation or Artificial Pearls.
Claims use since Sept. 20, 1917.

Ser. No. 116,251. (CLASS 39. CLOTHING.) BOURN RUBBER CO., Providence, R. I. Filed Mar. 3, 1919.

WORTH RUBBER COMPANY

No claim is made to the exclusive use of the words "Rubber Company" or to the triangle except in association with the mark as shown.
Particular description of goods.—Rubber Boots and Shoes.
Claims use since Feb. 1, 1917.

Ser. No. 116,450. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AARON R. WOLFF, Chicago, Ill. Filed Mar. 10, 1919.

O-Dess



The picture of a woman is fanciful.
Particular description of goods.—Sweeping Compound.
Claims use since Feb. 3, 1919.

Ser. No. 116,473. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) STAVANGER ELECTRO-STAALVERK, A. S., Stavanger, Norway. Filed Mar. 11, 1919.



NANSEN

The portrait shown in said trade-mark is that of Dr. Fridtjof Nansen, celebrated Artic explorer.
Particular description of goods.—Steel.
Claims use since November, 1914.

Ser. No. 116,887. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL MANGRANE, Barcelona, Spain. Filed Mar. 25, 1919.

ADAN

Particular description of goods.—Olive-Oil.
Claims use since May, 1918.

Ser. No. 116,888. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL MANGRANE, Barcelona, Spain. Filed Mar. 25, 1919.

EVA

Particular description of goods.—Olive-Oil.
Claims use since May, 1918.

Ser. No. 116,954. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CALIFORNIA PAINT COMPANY, Oakland, Calif. Filed Mar. 27, 1919. Under ten-year proviso.



Particular description of goods.—Dry and Ready-Mixed Paints, Varnishes, Painters' Oils, and Polishes for Varnished, Enameled, and Waxed Surfaces.
Claims use since 1879.

Ser. No. 116,978. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Mar. 27, 1919.

Freezometer

Particular description of goods.—Hydrometers.
Claims use since Mar. 11, 1909.

Ser. No. 117,128. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUNDERMAN CORPORATION, Newburgh, N. Y. Filed Apr. 2, 1919.

NITRO

Particular description of goods.—Carbureters.
Claims use since Mar. 20, 1919.

Ser. No. 117,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KREMO-LAC CO., INC., Brooklyn, N. Y. Filed Apr. 5, 1919.

KREMO-LAC

Particular description of goods.—A Liquid Food, Kremolac, a Pure Separated Milk Fermented with a Lactic-Acid Culture, Neither a Medicinal Nor a Milk Substitute Drink, But a Liquid Food Drink.
Claims use since Mar. 29, 1919.

Ser. No. 117,237. (CLASS 39. CLOTHING.) KNICKERBOCKER CLOTHING CO., St. Louis, Mo. Filed Apr. 7, 1919.

Knickerbocker
"CLOTHES FOR BOYS"

No claim being made to the words "Brand" and "Clothes for Boys" apart from the mark shown.
Particular description of goods.—Youths' and Boys' Outer Garments—Namely, Coats, Pants, Overcoats, Jackets, and Mackinaws.
Claims use since September, 1910.

Ser. No. 117,264. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE YALE SUSPENDER CO., New York, N. Y. Filed Apr. 7, 1919.

"ACE HIGH"

Particular description of goods.—Men's Leather Apparel-Belts and Suspenders.
Claims use since about Feb. 1, 1919.

Ser. No. 117,619. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE IGNITION PLUG CO., Dayton, Ohio. Filed Apr. 19, 1919.

Tipco

Particular description of goods.—Spark-Plugs.
Claims use since May 1, 1919.

Ser. No. 117,808. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KRAMER ROTARY HARROW CO., Morton, Ill. Filed Apr. 24, 1919.

EAGLE LINE

The word "Line" not being claimed apart from the mark shown in the drawing.
Particular description of goods.—Straw-Spreaders of the Trailer Type to be Attached to and Drawn by Hay-Racks and Similar Vehicles from Which the Straw is Pitched into the Spreader.
Claims use since the 1st day of September, 1917.

Ser. No. 117,844. (CLASS 17. TOBACCO PRODUCTS.) R. J. LEA, LIMITED, Manchester, England. Filed Apr. 25, 1919. Under ten-year proviso.

MADE ONLY BY R. J. LEA LIMITED TOBACCO SPECIALISTS HARDMAN'S SMOKING MIXTURE MANCHESTER

The lining shown in the drawing is for shading only and does not indicate color. The name "R. J. Lea," written in script, is the signature of the present owner's predecessor in business.
Particular description of goods.—Smoking-Tobacco.
Claims use since Apr. 27, 1877.

Ser. No. 118,006. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AUTOMATIC MANUFACTURING COMPANY, Dayton, Ohio. Filed Apr. 30, 1919.

AMCO

Particular description of goods.—Auxiliary Air-Inlet Devices for Internal-Combustion Engines, Grease-Cups, and Grease-Guns.
Claims use since Mar. 1, 1919.

Ser. No. 118,081. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DECATUR PUMP & MFG. CO., Decatur, Ill. Filed May 2, 1919.

DECATUR

Particular description of goods—Water-Pumps, Pressure-Pumps, Reciprocating Water-Pumps, Hydropneumatic Water-Pumps, Water-Supply Systems and Parts Thereof, Storage-Tanks as Parts of Water-Storage Systems Sold as Unitary Outfits.
Claims use since Feb. 15, 1919.

Ser. No. 118,235. (CLASS 39. CLOTHING.) MILLER & MACOWSKY, San Francisco, Calif. Filed May 7, 1919.

Tiny Tad

Particular description of goods.—Children's Frocks, Wash-Suits, Woolen Suits, Rompers, Creepers, and Overalls.
Claims use since September, 1916.

Ser. No. 118,388. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LAWRENCE AIRPLANE MODEL AND SUPPLY COMPANY, Chicago, Ill. Filed May 12, 1919.

SKY LARK

Particular description of goods.—Toy Airplanes.
Claims use since about Apr. 19, 1919.

Ser. No. 118,580. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ASBESTOMINE COMPANY, Wenatchee, Wash. Filed May 17, 1919.

ASBESTOMINE

Particular description of goods.—Dry-Powder Paints, Cold-Water Paints, and Dry Powders for Making Paints and Containing No Binder, Said Powders Not Being in the Nature of Pigments.
Claims use since June 1, 1916.

Ser. No. 118,945. (CLASS 39. CLOTHING.) VICTORY SHIRT CO., INC., New York, N. Y. Filed May 26, 1919.

WEAVER
STYLBILT
TO WEARER

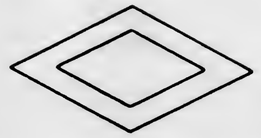
The words "Weaver to Wearer" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Collars, Cuffs, and Dress and Negligée Shirts Made of Silk and other Textile Material.
Claims use since about the 15th day of March, 1919.

Ser. No. 118,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIXIE FRUIT PRODUCTS CORPORATION, New York, N. Y. Filed May 27, 1919.



Particular description of goods.—Vinegar and Canned Fruits and Vegetables—Namely, Okra and Yams.
Claims use since Apr. 8, 1919.

Ser. No. 119,273. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MICHIGAN LUBRICATOR COMPANY, Detroit, Mich. Filed June 6, 1919.



Particular description of goods.—Priming-Cups and Independent Sight-Feeds.
Claims use since Oct. 8, 1918.

Ser. No. 119,368. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST BREWING COMPANY, Milwaukee, Wis. Filed June 9, 1919. Under ten-year proviso.

PABST

Particular description of goods.—Beer and Malt Extracts.
Claims use since June, 1889.

Ser. No. 119,955. (CLASS 38. PRINTS AND PUBLICATIONS.) MOTION PICTURE NEWS, INC., New York, N. Y. Filed June 25, 1919.

Motion Picture
News

Particular description of goods.—A Weekly Magazine.
Claims use since June 20, 1919.

Ser. No. 120,250. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OLLIE S. LYTTLETON, Lexington, Ky. Filed July 3, 1919.

ASPER-LAX

Particular description of goods.—A Laxative Tablet for Colds, Coughs, La Grippe, Headaches, Rheumatic and Neuralgic Pains.
Claims use since on or about Sept. 1, 1916.

Ser. No. 120,353. (CLASS 39. CLOTHING.) SAMUEL LIVINGSTON & SON, Washington, D. C. Filed July 8, 1919.

Livingston's

Particular description of goods.—Suits, Overcoats, Negligée and Work Shirts, Hats, Fabric Gloves, and Neckties for Men and Boys.
Claims use since Nov. 26, 1916.

Ser. No. 120,386. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG CO., Green Bay, Wis. Filed July 9, 1919.

SCALLOPED EDGE

No claim being made to the words "Scalloped Edge" apart from the mark shown, it being understood that the applicant does not thereby release any of its common-law rights.

Particular description of goods.—Toilet-Paper, Tissue-Paper, Paper Toweling, and Wrapping-Paper.

Claims use since Nov. 11, 1918.

Ser. No. 120,427. (CLASS 38. PRINTS AND PUBLICATIONS.) WARD A. NEFF, Chicago, Ill. Filed July 10, 1919.

THE CORN BELT FARM DAILIES

Particular description of goods.—Newspapers.

Claims use since 1901.

Ser. No. 120,491. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM LOHR, New York, N. Y., assignor to Candy-Cake Inc., Wilmington, Del., a Corporation of Delaware. Filed July 12, 1919.

MONDAE

Particular description of goods.—Candy, Hard and Soft; Chocolate, Cocoa, Cake, Biscuits, Crackers, Wafers, Bread, Rolls, Pretzels, Rusks, Ice-Cream, Water-Ice, Bonbons, Caramels, Comfits, Lozenges, Sugar-Wafers, Nougat, Fudge, Gum-Drops, Chewing-Gum, Marshmallow and Marshmallow-Whip.

Claims use since June 14, 1919.

Ser. No. 120,692. (CLASS 38. PRINTS AND PUBLICATIONS.) BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif. Filed July 19, 1919.

Furnishing Facts

Particular description of goods.—A Monthly Magazine Used as a House Organ.

Claims use since July 1, 1915.

Ser. No. 121,044. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JEWELL BELTING COMPANY, Hartford, Conn. Filed July 29, 1919.

KING PHILIP

Particular description of goods.—Round Belting and Flat Belting Made of Leather.

Claims use since June, 1899.

Ser. No. 121,073. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., Prague, Bohemia. Filed July 29, 1919.

REVOL

Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Safety-Pins, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Thimbles, Straight Solid-Headed Pins for Personal Use, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.

Claims use since Apr. 28, 1909.

Ser. No. 121,105. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) BALTIMORE PROCESS CO., Baltimore, Md. Filed July 30, 1919.

B CONCENTRATES P

No claim being made to the exclusive use of the word "Concentrates" apart from the other features shown.

Particular description of goods.—Non-Alcoholic Mixtures Containing Sweetening Materials, Bitter-Tasting Materials, and Flavoring Materials, Known on the Market as Concentrates, and Used in Making Malt Beverages Containing Less Than One-Half of One Per Cent. of Alcohol.

Claims use since October, 1918.

Ser. No. 121,139. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SAMUEL E. BERNSTEIN, New York, N. Y. Filed July 31, 1919.

RAZOR EDGE SHEFFIELD ROYAL BRAND CUTLERY

No exclusive claim is made for the words "Sheffield," "Razor Edge," "Brand," and "Cutlery" or the representation of the razor apart from the mark shown.

Particular description of goods.—Steel Cutlery Comprising Table-Knives and Table-Forks, Pocket-Knives, Butcher and Kitchen Knives, Shears, Scissors, and Razors.

Claims use since June, 1914.

Ser. No. 121,507. (CLASS 39. CLOTHING.) THE CHARLES WILLIAMS STORES, INC., Brooklyn, N. Y. Filed Aug. 9, 1919.

ALL-FEATURE HOSIERY — ECONOMY-STRENGTH-DURABILITY

No claim being made to the exclusive use of the words "All-Feature-Hosiery," "Economy - Strength - Durability," except in association with the mark as shown.

Particular description of goods.—Hosiery.

Claims use since May 8, 1919.

Ser. No. 121,625. (CLASS 9. EXPLOSIVES, FIREWORKS, EQUIPMENTS, AND PROJECTILES.) THE HOLT MANUFACTURING COMPANY, Stockton, Calif. Filed Aug. 13, 1919.

CATERPILLAR

Particular description of goods.—Mobile Gun-Mounts.

Claims use since Oct. 1, 1914.

Ser. No. 121,672. (CLASS 38. PRINTS AND PUBLICATIONS.) MAX HEYMANN, Mount Vernon, N. Y. Filed Aug. 14, 1919.

EL INDICADOR MERCANTIL

Particular description of goods.—A Magazine or Periodical Published Monthly.

Claims use since about February, 1913.

Ser. No. 121,680. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SAPHIL MANUFACTURING CORPORATION, Chicago, Ill. Filed Aug. 14, 1919.

SAPHIL

Particular description of goods.—Metal-Working Grinding-Machines and Parts Thereof.

Claims use since Feb. 15, 1919.

Ser. No. 121,750. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CHOCOLATE SHOPS, INC., Los Angeles, Calif. Filed Aug. 18, 1919.

Quinby's

Particular description of goods.—Chocolate Candy.

Claims use since July 1, 1919.

Ser. No. 122,217. (CLASS 39. CLOTHING.) MELCON A. KARAIAN, New York, N. Y. Filed Sept. 2, 1919.

PETTIBLOOMER

Particular description of goods.—Silk and Cotton Petticoats and Bloomers.

Claims use since October, 1918.

Ser. No. 122,259. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPHINE MENEFEE, Rocky Mount, Va. Filed Sept. 3, 1919.

BALD KNOB

The outer edges of the ornamental design being lined for gold and the inner edges for blue.

Particular description of goods.—Bottled Tomato Sauce.

Claims use since July 1, 1919.

Ser. No. 122,307. (CLASS 32. FURNITURE AND UPHOLSTERY.) LYON & HEALY, Chicago, Ill. Filed Sept. 4, 1919.

ARMHITE

Particular description of goods.—Store Display-Cabinets.

Claims use since about Aug. 1, 1918.

Ser. No. 122,402. (CLASS 15. OILS AND GREASES.) A. MULLINS, Ranger, Tex. Filed Sept. 6, 1919.

RANGOL

Particular description of goods.—Lubricating-Oil.
Claims use since Apr. 15, 1919.

Ser. No. 122,497. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWARD RIPLEY & SON, LTD., Bradford, England. Filed Sept. 9, 1919.

DRICOTA

Particular description of goods.—Piece Goods Composed of an Admixture of Wool and Cotton.
Claims use since Jan. 21, 1903.

Ser. No. 122,529. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FAGEOL MOTORS COMPANY, Oakland, Calif. Filed Sept. 10, 1919.

FAGEOL

Particular description of goods.—Motor-Trucks and Automobiles.
Claims use since July, 1916.

Ser. No. 122,692. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILTON ARTHUR FROST, San Antonio, Tex. Filed Sept. 15, 1919.

Union-Tone

Particular description of goods.—Shaving-Lotion and Shampoo.
Claims use since June 11, 1919.

Ser. No. 122,782. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEPTUNE SEA FOOD CO., San Diego, Calif. Filed Sept. 16, 1919.



Particular description of goods.—Canned Sardines.
Claims use since Mar. 15, 1918.

Ser. No. 123,254. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OAKLEY CHEMICAL CO., New York, N. Y. Filed Sept. 29, 1919.

OKEMCO

Particular description of goods.—Soap.
Claims use since February, 1914.

Ser. No. 123,337. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) A. J. CRAFTS PIANO CO., INCORPORATED, Richmond, Va. Filed Oct. 2, 1919.

Crafts

The word "Crafts" in the handwriting of A. J. Crafts.
Particular description of goods.—Pianos, Organs, Phonographs, and Player-Pianos.
Claims use since about September, 1914.

Ser. No. 123,693. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HARPER & MCINTIRE COMPANY, INCORPORATED, Ottumwa, Iowa. Filed Oct. 11, 1919.

HAR-MAC

Particular description of goods.—Articles of Hardware Comprising Barn-Door Hangers, Berlin Kettles, Coffee-Boilers, Rice-Boilers, Bolt Assortments, Washbowls, Bread-Pans, Sprinkling-Cans, Coal-Hods, Dish-Pans, Fry-Pans, Preserving-Kettles, Water-Pails, Milk-Pails, Cake-Pans, Milk-Pans, Pudding-Pans, Coffee-Pots, Teapots, and Carpet-Tacks.
Claims use since Jan. 1, 1909.

Ser. No. 123,694. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY HERMAN, Mitchell, S. D. Filed Oct. 11, 1919.

THE TRADE MARK Nebob COMPANY

I do not claim the words "Trade-Mark" shown in the accompanying drawing.
Particular description of goods.—Non-Alcoholic, Non-Cereal, and Maltless Flavoring Syrups Used in Making Soft Drinks as Sold at Soda-Fountains.
Claims use since Aug. 30, 1919.

Ser. No. 123,844. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ELASTICAP COMPANY, Hoboken, N. J. Filed Oct. 16, 1919.

Elasticaps

Particular description of goods.—Splice-Insulators for Electric Conductors.
Claims use since about July 1, 1917.

Ser. No. 124,209. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PHILIP GERVIG, Alton, Ill. Filed Oct. 27, 1919.

TURAWN

Particular description of goods.—Vehicle-Awning Detachably Attached to the Sides of Vehicles.
Claims use since Oct. 1, 1919.

Ser. No. 124,496. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE ALBERT SECHRIST MANUFACTURING COMPANY, Denver, Colo. Filed Nov. 3, 1919.

THE SECHRIST PRESSURE COOKER

No claim being made to the words "The Pressure Cooker" apart from the design shown in the drawing.
Particular description of goods.—Cooking Utensils of the Pressure-Cooker Type.
Claims use since about Oct. 1, 1919.

Ser. No. 124,534. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBINSON & GOLLUBER, New York, N. Y. Filed Nov. 4, 1919.

Linspun

No claim being made to the representation of the spinning-wheel.
Particular description of goods.—Handkerchiefs.
Claims use since about Oct. 14, 1919.

Ser. No. 124,657. (CLASS 38. PRINTS AND PUBLICATIONS.) DAVID L. MICHAELSON, New York, N. Y. Filed Nov. 7, 1919.

THE RESTAURATEUR

Consisting of the words "The Restaurateur."
Particular description of goods.—A Biweekly Publication.
Claims use since Sept. 15, 1919.

Ser. No. 124,754. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARD HAUGHTON, Paoli, Pa. Filed Nov. 11, 1919.

GREAT VALLEY

Particular description of goods.—Crackers, Whole-Wheat Crackers, Bran Crackers, Graham Crackers, Oatmeal Crackers, Barley Crackers, Whole-Wheat Rusk, Zwieback, Bran Cookies, Diabetic Cookies, Cereal Candy, Chocolate Candy, Sweet Chocolate, Cooking-Chocolate, and Cocoa.
Claims use since July 15, 1919.

Ser. No. 124,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARD HAUGHTON, Paoli, Pa. Filed Nov. 11, 1919.

VALLEY FORGE

Particular description of goods.—Crackers, Whole-Wheat Crackers, Bran Crackers, Graham Crackers, Oatmeal Crackers, Barley Crackers, Whole-Wheat Rusk, Zwieback, Bran Cookies, Diabetic Cookies, Cereal Candy, Chocolate Candy, Sweet Chocolate, Cooking-Chocolate, and Cocoa.
Claims use since July 15, 1919.

Ser. No. 124,787. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE FEDERAL SOAP COMPANY, Columbus, Ohio. Filed Nov. 12, 1919.



No claim being made to the word "Prize" apart from the mark as shown.
Particular description of goods.—White Laundry Soap.
Claims use since July, 1919.

Ser. No. 124,831. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRANK W. ALTER, Chicago, Ill. Filed Nov. 13, 1919.

NORTHERN EXPRESS TIME

No claim being made to the word "Time" apart from the mark shown in the drawing.
Particular description of goods.—Timepieces.
Claims use since Jan. 2, 1915.

Ser. No. 125,127. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PACIFIC SANITARY MANUFACTURING COMPANY, San Francisco, Calif. Filed Nov. 20, 1919.

PACIFIC

Particular description of goods.—Bathtubs, Shower-Bath Receptors, Lavatories, Sanitary Drinking-Fountains, Toilet-Bowls, Flush-Tanks, Urinals, Lavatory-Basins, and Sinks.
Claims use since Jan. 15, 1918.

Ser. No. 125,136. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THURSTON-BERNAY CO., San Francisco, Calif. Filed Nov. 20, 1919.

SKROO-ZON

Particular description of goods.—Tool-Handles.
Claims use since July 7, 1919.

Ser. No. 125,203. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WATTS, STEBBINS & CO., New York, N. Y. Filed Nov. 22, 1919.

SKIPPER

Consisting of the word "Skipper."
Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 17, 1919.

Ser. No. 125,301. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OTTAWA PAINT WORKS LIMITED, Ottawa, Canada. Filed Nov. 25, 1919.

O.P.W.

Particular description of goods.—Oil Paints, Varnishes, Paint-Oils, and Painters' Materials—Namely, Driers, Enamels, Fillers, Prepared Shellac, and Paint Colors.
Claims use since Oct. 14, 1907.

Ser. No. 125,377. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CHARLES H. ELTING & COMPANY, Chicago, Ill. Filed Nov. 24, 1919.

Elti-nola

Particular description of goods.—Phonographs.
Claims use since Sept. 15, 1919.

Ser. No. 125,506. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE JEMTONE CO., Omaha, Nebr. Filed Dec. 2, 1919.

JEMTONE

Particular description of goods.—Needle-Holding Attachments for the Reproducers or Sound-Boxes of Phonographs.
Claims use since Oct. 1, 1919.

Ser. No. 125,525. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SAW MILL MACHINERY COMPANY, Hackettstown, N. J., and New York, N. Y. Filed Dec. 3, 1919.

AMEX

Particular description of goods.—Bolting-Machines or Short-Log Saws.
Claims use since August, 1919.

Ser. No. 125,554. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AXEL WIBEL, Stockholm, Sweden. Filed Dec. 3, 1919.

Facit

AXEL WIBEL STOCKHOLM

No claim being made of the word "Stockholm" apart from the mark as shown by the drawing.
Particular description of goods.—Calculating-Machines.
Claims use since Jan. 8, 1919.

Ser. No. 125,579. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PROCTER & COLLIER COMPANY, Cincinnati, Ohio. Filed Dec. 4, 1919.

The Day's Work

Particular description of goods.—A Bimonthly Magazine.
Claims use since Sept. 1, 1919.

Ser. No. 125,617. (CLASS 17. TOBACCO PRODUCTS.) JULIUS M. GOLDSTEIN, Oneida, N. Y. Filed Dec. 5, 1919.



NAPOLEON

Particular description of goods.—Cigars.
Claims use since about May 15, 1876.

Ser. No. 125,703. (CLASS 38. PRINTS AND PUBLICATIONS.) ARTHUR T. JORY, San Francisco, Calif. Filed Dec. 8, 1919.

OFFERGRAM AND MARKET INDICATOR

Particular description of goods.—A Periodical Publication Published Weekly.
Claims use since Sept. 18, 1919.

Ser. No. 125,781. (CLASS 38. PRINTS AND PUBLICATIONS.) MARTIN LAZIER, Steubenville, Ohio. Filed Dec. 10, 1919.



Particular description of goods.—A Directory Published Periodically and by Districts.
Claims use since July 1, 1916.

Ser. No. 125,907. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ORIOLE TOY COMPANY, Wilmington, Del., and Pittsburgh, Pa. Filed Dec. 12, 1919.

Loony

Particular description of goods.—Amusement Devices Employing Mirrors for Reflecting Movement.
Claims use since Nov. 28, 1919.

Ser. No. 125,937. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BLACKMAN TALKING MACHINE CO., INC., New York, N. Y. Filed Dec. 13, 1919.

Melotone

Particular description of goods.—Talking-Machine Needles.
Claims use since December, 1905.

Ser. No. 125,993. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) VOGT MANUFACTURING CORPORATION, Rochester, N. Y. Filed Dec. 13, 1919.

VIKING

Particular description of goods.—Brake-Lining.
Claims use since Oct. 27, 1919.

Ser. No. 126,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FABER & COMPANY, Peoria, Ill. Filed Dec. 15, 1919.



Exclusive of the words "Faber's Tankage Hog Fattener" and the words "Trade-Mark."
Particular description of goods.—Stock Food.
Claims use since about July 1, 1919.

Ser. No. 126,045. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MASTER MANUFACTURING CO., Cincinnati, Ohio. Filed Dec. 15, 1919.

MASTER

Particular description of goods.—Shoe and Leather Oils, Dressings, and Paste Polishes.
Claims use since Nov. 7, 1919.

Ser. No. 126,129. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHESTER KENT & CO., INC., Boston, Mass. Filed Dec. 16, 1919.

VITAMO

Particular description of goods.—A Tonic Medicinal Preparation in Dry Form Especially Indicated in Cases of Malnutrition, Anemias, Nervous Exhaustion, General Debility, Impoverished Blood, Loss of Weight, Convalescence After Typhoid and other Fevers, Pneumonia, Influenza, and other Wasting and Debilitating Diseases.
Claims use since Oct. 1, 1919.

Ser. No. 126,168. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) CHEMICAL EQUIPMENT COMPANY, Chicago, Ill. Filed Dec. 17, 1919.

CECO

Particular description of goods.—Spray Systems for Chemical and other Industrial Operations, Industrial Centrifugal Atomizers, Centrifugal and Vertical Pumps, Priming Systems for Pumps, Vacuum-Evaporators, Specially-Designed Valves Particularly Adapted to Chemical-Plant Service, and Parts Thereof.
Claims use since July 1, 1918.

Ser. No. 126,215. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. HOLLANDER & SON, INC., Newark, N. J. Filed Dec. 18, 1919.

BAYSEAL

No registration rights being claimed for the word "Seal" apart from the mark shown in the drawing.
Particular description of goods.—Fur-Skins.
Claims use since August, 1919.

Ser. No. 126,231. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY & MFG. CO., Pittsburgh, Pa. Filed Dec. 18, 1919.

"Sandy Andy"

Particular description of goods.—Automatic Sand-Operated Mechanical Toys and Toy Dishes.
Claims use since Nov. 6, 1909.

Ser. No. 126,256. (CLASS 15. OILS AND GREASES.) MERRILL-HAMILTON COMPANY, Kansas City, Mo. Filed Dec. 19, 1919.

SPRINGLIFE

Particular description of goods.—Lubricating-Strips for Leaf-Springs, Consisting of a Fiber Backing-Strip Having a Hard Lubricant Applied to One Side Thereof.
Claims use since Oct. 10, 1919.

Ser. No. 126,451. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CUTTER TOWER COMPANY, INC., New York, N. Y. Filed Dec. 26, 1919.

TOWER

Under ten-year proviso.
Particular description of goods.—Toothpicks.
Claims use since 1892.

Ser. No. 126,460. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, New York, N. Y.; EARLE E. CONWAY, Boston, and THEODORE P. BROWN, Worcester, Mass., trustees. Filed Dec. 26, 1919.

GRAM & CO

Particular description of goods.—Pianos.
Claims use since 1906.

Ser. No. 126,462. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, New York, N. Y.; EARLE E. CONWAY, Boston, and THEODORE P. BROWN, Worcester, Mass., trustees. Filed Dec. 26, 1919.

Bowen, BOSTON

The word "Boston" appearing with the trade-mark is not claimed as a part of said mark.
Particular description of goods.—Pianos.
Claims use since 1906.

Ser. No. 126,487. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEGAL LOCK & HARDWARE CO. INC., New York, N. Y. Filed Dec. 26, 1919.

SEGAL

Particular description of goods.—Key-Machines and Jigs for Filing Tumblers of Locks.
Claims use since January, 1917.

Ser. No. 126,501. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed Dec. 26, 1919.

EXCELSIOR

Particular description of goods.—Timothy, Clover, Alsike, Alfalfa, Red-Top, Grass-Seed, Lawn-Seed; Lawn-Grass Mixtures—viz., Combinations of the Foregoing Seeds Ordinarily Used for Growing of Lawns; and Pasture Mixtures—viz., Combination of the Foregoing Seeds Ordinarily Used for Mixtures Thereof, Particularly Suitable for the Growing of Pastures for Horses, Cattle and Sheep Grazing; Seed-Grain and Field-Seeds of All Kinds.
Claims use since April, 1906.

Ser. No. 126,651. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NORDISKA KULLAGER ARTIEBOLAGET, Gottenborg, Sweden. Filed Dec. 30, 1919.

NKA

Particular description of goods.—Antifriction Ball and Roller Bearings, Power Transmissions for Machinery, Machinery for Conveying Materials, and Parts Thereof.
Claims use since the year 1916.

Ser. No. 126,716. (CLASS 2. RECEPTACLES.) CHESS & WYMOND COMPANY, Louisville, Ky. Filed Jan. 2, 1920.



Particular description of goods.—Empty Tight Barrels, Kegs, Hogsheads, Shooks, Staves, Headings, and Hoops.
Claims use since Nov. 2, 1919.

Ser. No. 126,879. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SPLITDORF ELECTRICAL COMPANY, Newark, N. J. Filed Jan. 6, 1920.



No claim being made to the representation of the meter apart from the mark as shown.
Particular description of goods.—Phonograph-Meters.
Claims use since Nov. 1, 1919.

Ser. No. 126,943. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL ENAMELING & STAMPING CO., New York, N. Y. Filed Jan. 8, 1920.



Particular description of goods.—Pots, Pans, Boilers, Bowls, and Kettles for All Manner of Cooking and Culinary Purposes; Sink-Brackets, Bread-Raisers, Colanders, Cuspidors, Cake-Turners, Milk-Cooling Cans, Drin'cing-Cups; Separate Covers for Pots, Kettles, and Pans; Plates of All Kinds for Cooking and Kitchen Purposes; Water, Milk, Sap, Fire, Cement, and Chamber Pails; Refrigerator-Pans, Dustpans, Miners' Pans, Strainers for Cooking and Culinary Purposes, Broilers, Open Soap-Dishes, Chambers, Muffin-Rings, French Friers and Ladles for Household and Kitchen Purposes, Egg-Poachers, Funnels, Fruit-Jar Fillers, Graters for Cooking Purposes, Griddles, Baths and Bathtubs, Kitchen-Sinks, Mugs, Marking-Pots, Kitchen-Molds, Double Roasters, Cups and Saucers, Steam-Cookers, Cooking-Steamers, Skimmers, Slop-Jars, Sink-Backs, Serving-Trays, Toasters, Washbowls and Pitchers, and Watering-Pots.
Claims use since 1899.

Ser. No. 126,978. (CLASS 38. PRINTS AND PUBLICATIONS.) TREAT 'EM ROUGH PUB. CO. INC., New York, N. Y. Filed Jan. 9, 1920.

Uncle Sam

Particular description of goods.—A Monthly Magazine.
Claims use since Aug. 1, 1919.

Ser. No. 127,015. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHAS. H. REED, New York, N. Y. Filed Jan. 10, 1920.



The horizontal lining in the drawing representing blue and the vertical lining representing red.
Particular description of goods.—Bunting.
Claims use since November, 1918.

Ser. No. 127,060. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALBERT LEA SPRAYER COMPANY, Albert Lea, Minn. Filed Jan. 12, 1920.



The hat forming a part of the trade-mark is provided with vertical stripes in red color and with a band in blue color having white stars thereon.
Particular description of goods.—Sprayers and Parts Thereof for Spraying Fungicides and Insecticides on Trees, Shrubs, and Plants.
Claims use since Apr. 6, 1917.

Ser. No. 127,093. (CLASS 38. PRINTS AND PUBLICATIONS.) AUGUSTINE HICKS LAWRENCE, New York, N. Y. Filed Jan. 13, 1920.

PROFITABLE INVESTING

Consisting of the words "Profitable Investing."
Particular description of goods.—A Monthly Periodical Giving Stock-Market Information, News, and Opinions.
Claims use since on or about Sept. 5, 1919.

Ser. No. 127,321. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM S. MILLIKEN, Brooklyn, N. Y. Filed Jan. 19, 1920.



Particular description of goods.—Hand Fire-Extinguishers.
Claims use since Nov. 15, 1918.

Ser. No. 127,370. (CLASS 25. LOCKS AND SAFES.) THE HERSHEY MANUFACTURING COMPANY, Denver, Colo. Filed Jan. 20, 1920.



No claim is made to the words "Theftproof" and "Auto Lock."
Particular description of goods.—Steering-Post Locks for Automobiles.
Claims use since Oct. 20, 1919.

Ser. No. 127,485. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HENRY PAULSON, Chicago, Ill. Filed Jan. 22, 1920.

Meritas

Particular description of goods.—Talking-Machines.
Claims use since Jan. 1, 1919.

Ser. No. 127,497. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOPHIA BLICKMAN, New York, N. Y. Filed Jan. 23, 1920.



Particular description of goods.—Tire-Pumps.
Claims use since Jan. 20, 1920.

Ser. No. 127,518. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MERCHANT & EVANS COMPANY, Philadelphia, Pa. Filed Jan. 23, 1920.

M & E

Particular description of goods.—Clutches and Universal Joints for Motor-Vehicles.
Claims use on clutches since 1910 and upon universal joints since 1917.

Ser. No. 127,679. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHEN BROTHERS MANUFACTURING CO. INC., New York, N. Y. Filed Jan. 28, 1920.



Particular description of goods.—Artificial-Silk Cloth Fabrics, Mercerized Silk Cloth Fabrics, Mercerized Cotton-Silk Cloth Fabrics, and Pure-Thread Silk Fabrics.
Claims use since Dec. 15, 1919.

Ser. No. 127,695. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD J. MOORE, New York, N. Y. Filed Jan. 28, 1920.

AspirLax

Particular description of goods.—A White Uncoated Tablet, a Pharmaceutical Preparation Used in the Treatment of Colds, Influenza, Neuralgia, Rheumatism, and Kindred Ills.
Claims use since Jan. 1, 1920.

Ser. No. 127,741. (CLASS 10. FERTILIZERS.) SOCIÉTÉ DES PRODUITS AZOTÉS, Paris, France. Filed Jan. 29, 1920.

PHOSPHAZOTE

Particular description of goods.—Fertilizers.
Claims use since November, 1919.

Ser. No. 127,756. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COMMERCIAL TEA & COFFEE CO., Boston, Mass. Filed Jan. 30, 1920.



The English translation of the Greek words "Anatolikos Astir" being "Star of the East."
Particular description of goods.—Coffee.
Claims use since Jan. 5, 1920.

Ser. No. 127,775. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) EDWARD SAMUELS, Brooklyn, N. Y. Filed Jan. 30, 1920.

CRAFTSMAN

Trade-mark consists of the word "Craftsman."
Particular description of goods.—A Woolen-Felt Rug.
Claims use since Oct. 1, 1919.

Ser. No. 127,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920.

SACHEM

Particular description of goods.—Cornmeal.
Claims use since June, 1907.

Ser. No. 127,809. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920.

ALAMO

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 11, 1919.

Ser. No. 127,822. (CLASS 17. TOBACCO PRODUCTS.) MELIKIAN CIGARETTES, INC., Wilmington, Del., and Trenton, N. J. Filed Jan. 31, 1920.

TAVAN

Particular description of goods.—Cigarettes.
Claims use since Jan. 1, 1917.

Ser. No. 127,877. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WACHENHEIMER BROS., INC. Providence, R. I. Filed Feb. 2, 1920.

DIAMONBAR

Particular description of goods.—Scarf-Pins, Hairpins, Collar-Pins, Cuff-Pins, Pendants, Finger-Rings, Key-Rings, Chain Rings, Ear-Rings, and Brooches, All of Which are Made of or Plated with Precious Metal.
Claims use since November, 1916.

Ser. No. 127,910. (CLASS 39. CLOTHING.) THE GOLDFIELD-ROSENFELD CO., INC., New York, N. Y. Filed Feb. 3, 1920.

GOLDTEX

Particular description of goods.—Coats and Suits for Women and Children.
Claims use since about Dec. 13, 1919.

Ser. No. 127,955. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) WILLIAM W. ALLEN, Dobbs Ferry, N. Y. Filed Feb. 4, 1920.

NEW IDEA

Particular description of goods.—Clothes-Washing Machines.
Claims use since Feb. 20, 1905.

Ser. No. 127,996. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLONIAL CHEMICAL CORPORATION, Reading, Pa. Filed Feb. 5, 1920.

FLYOSAN

Particular description of goods.—A Disinfectant, Deodorizer, and Insecticide.
Claims use since June 24, 1919.

Ser. No. 128,044. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HARRY H. COLEMAN, New York, N. Y. Filed Feb. 6, 1920.

DOLLY WALKER

Particular description of goods.—Walking Dolls.
Claims use since Dec. 1, 1919.

Ser. No. 128,093. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDEAL DISINFECTANT COMPANY, New York, N. Y. Filed Feb. 7, 1920.

IDC

Particular description of goods.—Odorizing and Disinfectant Compounds.
Claims use since January, 1919.

Ser. No. 128,101. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) W. W. LAWRENCE & COMPANY, Pittsburgh, Pa. Filed Feb. 7, 1920.

GOLD STAR PRODUCTS — GOLD STAR — GOLD STAR PRODUCTS
W. W. Lawrence & Company
PAINT AND VARNISH MAKERS PITTSBURGH

No claim is made to the words "Products," "Paint and Varnish Makers," and "Pittsburgh" apart from the mark as shown.
Particular description of goods.—Paste Paints, Ready-Mixed Paints, Enamel Paints, Flat Paints, Oil Paints, Varnish-Stains, and Clear Varnish.
Claims use since September, 1919.

Ser. No. 128,111. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN S. ROACH, Chicago, Ill. Filed Feb. 7, 1920.

U-RID-M

Particular description of goods.—A Gargle to Alleviate Soreness and Affections of the Throat and Corn-Plasters.
Claims use since Jan. 20, 1920.

Ser. No. 128,123. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ED W. WALL, Corpus Christi, Tex. Filed Feb. 7, 1920.

E.W.Wall

The trade-mark is a facsimile of the signature of Ed W. Wall.
Particular description of goods.—A Salve for Sores, Cuts, Burns, and Rheumatism.
Claims use since Dec. 15, 1919.

Ser. No. 128,171. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) ROCHESTER ELECTRICAL SUPPLY CO., Rochester, N. Y. Filed Feb. 9, 1920.

RAINBOW

Particular description of goods.—Laundry-Washing Machines.
Claims use since Dec. 19, 1919.

Ser. No. 128,203. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. EDDY PLOW CO., Greenwich, N. Y. Filed Feb. 10, 1920.

W. EDDY PLOW CO. — Greenwich, N.Y.

The term "Greenwich, N. Y." is disclaimed apart from the mark as shown in the drawing, the illustration of the plow being fanciful and the portrait being that of Walden Eddy, deceased.
Particular description of goods.—Plows, Markers, Potato-Coverers, and Root-Cutters, Harrows, Cultivators, Rollers, Corn-Planters, Potato-Planters, Lime-Sowers, and Cream-Separators.
Claims use since Mar. 22, 1910.

Ser. No. 128,205. (CLASS 5. ADHESIVES.) JOHN T. FLAHERTY, Springfield, Mass. Filed Feb. 10, 1920.

TREADO

Particular description of goods.—A Preparation for Filling Cavities and the Like and Healing Cuts and the Like in Rubber Tires, Rubber Shoes, and Rubber Goods.
Claims use since July 10, 1917.

Ser. No. 128,237. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Table-Cutlery of Base Metal, Pocket-Knives, Scissors, and Razors, Dies for Engraving, Stamping, or Embossing Stationery.
Claims use since 1868.

Ser. No. 128,240. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Clothes-Brushes, Hair-Brushes, Powder-Puffs, Nail-Brushes, and Whisk-Brooms.
Claims use since 1868.

Ser. No. 128,241. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY & Co.

Particular description of goods.—Clothes-Brushes, Hair-Brushes, Powder-Puffs, Nail-Brushes, and Whisk-Brooms.
Claims use since 1868.

Ser. No. 128,242. (CLASS 30. CROCKERY, EARTHENWARE AND PORCELAIN. TIFFANY & COMPANY, New York, N. Y. Filed Feb. 10, 1920. Under ten-year proviso.

TIFFANY

Particular description of goods.—Chinaware, Bric-a Brac, Earthenware, and Porcelain.
Claims use since 1868.

Ser. No. 128,264. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAFAYETTE FELIX BIRDSONG, McComb, Miss. Filed Feb. 11, 1920.

BIRDSONG'S

Particular description of goods.—Liver-Pills.
Claims use since Apr. 15, 1919.

Ser. No. 128,277. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) MICHELE A. REGINE, Philadelphia, Pa. Filed Feb. 11, 1920.

M. A. REGINE — THUNDER BOLT POWDER

No claim being made to the word "Powder."
Particular description of goods.—Explosive Powder.
Claims use since about July 1, 1919.

Ser. No. 128,319. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FLIX LIGHT COMPANY, INC., New York, N. Y. Filed Feb. 12, 1920.

FLIX

Particular description of goods.—Motor-Driven Electric Light and Power Units.
Claims use since Aug. 2, 1919.

Ser. No. 128,373. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HERMAN SCHOENER, St. Cloud, Minn. Filed Feb. 13, 1920.

SCHOENER GARDEN TOOL MFG. CO. — QUALITY — ADJUSTMENT — EFFICIENCY

No claim being made for the words "Quality," "Adjustment," and "Efficiency" apart from the mark shown, nor is any claim made for the representation of the tool shown apart from said mark.
Particular description of goods.—Combination Sets of Garden-Tools for Hand Use.
Claims use since Nov. 1, 1919.

Ser. No. 128,479. (CLASS 39. CLOTHING.) WARREN MACPHERSON, Cambridge, Mass. Filed Feb. 16, 1920.

CAMCO

Particular description of goods.—Canvas and Rubber Shoes, Rubber Soles and Heels, Rubber Toe-Boxes, and Rubber Counters.
Claims use since on or about Aug. 6, 1919.

Ser. No. 128,480. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WASHINGTON STEEL AND ORDNANCE COMPANY, Washington, D. C. Filed Feb. 16, 1920.

CAPITOL

Particular description of goods.—Drop-Forgings Which Have Been Given Finishing-Work—Namely, Die-Blocks, Steel Anvil-Blocks, Drill-Bits, Chisels, Rivet-Sets, and Boiler-Punches.
Claims use since Nov. 1, 1919.

Ser. No. 128,528. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SKINNER CHUCK COMPANY, New Britain, Conn. Filed Feb. 17, 1920. Under ten-year proviso.

SKINNER

Particular description of goods.—Chucks of All Kinds.
Claims use since at least 1888.

Ser. No. 128,584. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. ALTMAN & CO., New York, N. Y. Filed Feb. 19, 1920.

Utilis

Particular description of goods.—Cologne.
Claims use since 1900.

Ser. No. 128,597. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK DAHL, East Orange, N. J. Filed Feb. 19, 1920.

I-O-SIL

Particular description of goods.—A Medicinal Preparation Used in the Treatment of Leucorrhea, Gonorrhea, Cystitis, Vulvo-Vaginitis and Processes, Used with Success to Prevent Infection After Instruments are Used in the Urethra or Bladder.
Claims use since Mar. 1, 1918.

Ser. No. 128,612. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. S. NICHOLS, New York, N. Y. Filed Feb. 19, 1920.

TRYMORE

Particular description of goods.—Sardines, Fish Branded as Sardines, and Small Fish.
Claims use since about Oct. 1, 1916.

Ser. No. 128,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AVALON FARMS COMPANY, Chicago, Ill. Filed Feb. 20, 1920.

HORSE-TONE

Particular description of goods.—Tonic and Conditioner for Use for Horses Only.
Claims use since July 30, 1915.

Ser. No. 128,648. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERWIN H. BAKER, San Jose, Calif. Filed Feb. 20, 1920.

Evening Chimes

Particular description of goods.—Perfumes.
Claims use since Oct. 1, 1904.

Ser. No. 128,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN M. BECK, New Orleans, La. Filed Feb. 21, 1920.

KANT-MIS

Particular description of goods.—Salve for Boils, Carbuncles, Old Sores, Poisonous Bites, Eczema, Burns, and Cuts.
Claims use since Dec. 1, 1919.

Ser. No. 128,733. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) C. I. JOSEPHSON, Moline, Ill. Filed Feb. 21, 1920.



Particular description of goods.—Finger-Rings, Brooches, Bar-Pins, Sterling and Plated Tableware, and other Articles of Jewelry, Not Including Watches.
Claims use since on or about Dec. 1, 1912.

Ser. No. 128,751. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AMERICAN LABORATORIES CO., Cincinnati, Ohio. Filed Feb. 24, 1920.

PREXLIN

Particular description of goods.—A Preparation for Colds, Grippe, Influenza, Tonsilitis, Headaches, Neuralgia, Neuritis, Sciatia, Lumbago, Rheumatism, Gout, Aching Joints, Earache, and Toothache.
Claims use since Jan. 30, 1920.

Ser. No. 128,778. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. E. HOFFMAN COMPANY, Dallas, Tex. Filed Feb. 24, 1920.

HOFFCO

Particular description of goods.—Cooling-Cream, Camphor Cream, Bay-Rum Cream, Cold-Cream, Finishing-Cream, Witch-Hazel Cream, Lemon Cream, Dandercide, Hair-Invigorator for Dressing the Hair, Blue-Bonnet Toilet Water, Lilac Toilet Water, Dressing-Tonic, and Quinin-Tonic Hair-Dressings of Different Odors.
Claims use since December, 1914.

Ser. No. 128,779. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. E. HOFFMAN COMPANY, Dallas, Tex. Filed Feb. 24, 1920.

SILKATONE

Particular description of goods.—A Hair-Dressing Having No Quinine.
Claims use since Jan. 1, 1920.

Ser. No. 128,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGARET MORGAN, Milwaukee, Wis. Filed Feb. 24, 1920.

ROSE MIST

Particular description of goods.—Skin-Cream.
Claims use since Jan. 24, 1920.

Ser. No. 128,837. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) HARRIET L. GALBRAITH, Washington, D. C. Filed Feb. 24, 1920.

Galbraith

Is a facsimile of applicant's signature.
Particular description of goods.—Stands or Supports, Especially Designed for Holding Sadirons.
Claims use since September, 1919.

Ser. No. 128,847. (CLASS 39. CLOTHING.) LADY JANE HAT SHOPS, INC., New York, N. Y. Filed Feb. 24, 1920.

The Lady Jane Outfit

Consisting of the words "The Lady Jane Outfit," no claim being made to the exclusive use of the word "Outfit" apart from the mark as shown in the drawing.
Particular description of goods.—A Woman's Outfit in Complementary-Toned Items Comprising a Hat, Coat, Two Piece Dress, Seasonable Underwear in One and Two Piece Garments, Hosiery, Leather and Fabric Gloves, Corset, Brassière, Leather and Fabric Shoes, Umbrella, Reticule, Veil, and Petticoat.
Claims use since Jan. 26, 1920.

Ser. No. 128,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NOERDLINGER BROTHERS COMPANY, New York, N. Y. Filed Feb. 24, 1920.

LOUISETTE

Particular description of goods.—Cotton and Silk Piece Goods and Mixtures of the Same.
Claims use since Feb. 9, 1920.

Ser. No. 128,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. CLEMENTS, Newark, N. J. Filed Feb. 25, 1920.

ANZORA

Particular description of goods.—Hair-Cream.
Claims use since Dec. 19, 1919.

Ser. No. 128,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. CLEMENTS, Newark, N. J. Filed Feb. 25, 1920.

VARSITY

Particular description of goods.—Hair-Cream.
Claims use since Dec. 19, 1919.

Ser. No. 128,890. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KING PAINT MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Feb. 25, 1920.

GRAHAM'S

Particular description of goods.—Ready-Mixed Paints.
Claims use since Feb. 16, 1920.

Ser. No. 128,918. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CASCADE CIDER CO., Springville and Buffalo, N. Y. Filed Feb. 26, 1920.

Cy-Dear

Particular description of goods.—Non-Alcoholic Apple Beverages.
Claims use since Feb. 16, 1920.

Ser. No. 128,957. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE DENTISTS' SUPPLY COMPANY, New York, N. Y. Filed Feb. 27, 1920.



Particular description of goods.—Artificial Teeth.
Claims use since Nov. 1, 1919.

Ser. No. 128,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANKLIN A. GRAY, Kansas City, Mo. Filed Feb. 27, 1920.

SANOCIDE

Particular description of goods.—A Preparation for the Treatment of the Hair and Scalp.
Claims use since Jan. 7, 1920.

Ser. No. 128,976. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MICROMETER ENGINEERING CO. LTD., Coventry, England. Filed Feb. 27, 1920.

FLEXO

Particular description of goods.—Bicycle-Saddles and Motorcycle-Saddles.
Claims use since August, 1918.

Ser. No. 129,017. (CLASS 39. CLOTHING.) THE MITCHELL MANUFACTURING CO., Portsmouth, Ohio, and New York, N. Y. Filed Feb. 28, 1920.

Protex

Particular description of goods.—Men's Knitted Union-Suits.
Claims use since 1906.

Ser. No. 129,046. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHERMAN D. CLEGG, Wheeling, W. Va. Filed Mar. 1, 1920.

VINKETS

Particular description of goods.—Herb Tablets for the Stomach, Liver, Bowels, and Blood.
Claims use since Nov. 11, 1919.

Ser. No. 129,095. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITARY PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 1, 1920.

LYOLIN

Particular description of goods.—Disinfectants.
Claims use since August, 1916.

Ser. No. 129,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITARY PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 1, 1920.

SAPROCO

Particular description of goods.—Disinfectants.
Claims use since August, 1916.

Ser. No. 129,101. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TRUMBULL ELECTRIC MANUFACTURING COMPANY, Plainville, Conn. Filed Mar. 1, 1920.

CIRCLETEED

Particular description of goods.—Switches, Switchboards, Panel-Boards, Cut-Outs, Fuse-Blocks, Insulating Devices, Rosettes, Controllers, and Electrical Receptacles.
Claims use since Jan. 15, 1920.

Ser. No. 129,107. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 1, 1920.

MOTOMAT

Particular description of goods.—Rubber Mats.
Claims use since Jan. 26, 1920.

Ser. No. 129,164. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN WOOLEN PRODUCTS CO., INC., New York, N. Y. Filed Mar. 3, 1920.

PEDIGREE

Particular description of goods.—Raw Hides, Partly-Finished Leather, and Leather.
Claims use since Jan. 1, 1920.

Ser. No. 129,165. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN WOOLEN PRODUCTS CO., INC., New York, N. Y. Filed Mar. 3, 1920.



No claim for the use of the word "Leathers."
Particular description of goods.—Raw Hides, Partly-Finished Leather, and Leather.
Claims use since Jan. 1, 1920.

Ser. No. 129,173. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EVEREADY MFG. COMPANY OF BOSTON, Boston, Mass. Filed Mar. 3, 1920.



No claim is made to the words "Ever Ready" apart from the mark shown by the drawing.
Particular description of goods.—Staple Making and Driving Machines Adapted for General Use in Fastening Together Material in Sheets or Layers and Which Have Been Used for Paper, Cloth, Leather, and Celluloid.
Claims use since the early part of December, 1915.

Ser. No. 129,215. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) YANKEE POLISH CO., New York, N. Y. Filed Mar. 5, 1920.



The word "Brand" being disclaimed.
Particular description of goods.—Boot, Shoe, and Leather Polishes, Dressings, and Oils.
Claims use since May, 1903.

Ser. No. 129,217. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LOCKTITE PATCH COMPANY, Detroit, Mich. Filed Mar. 4, 1920

GAS O LARM

No claim is made to the exclusive use of the words "Reserves One Gallon" apart from the mark as shown by the drawing.
Particular description of goods.—Valves for Automobile Fuel-Tanks.
Claims use since Jan. 22, 1920.

Ser. No. 129,226. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Mar. 4, 1920.

SECURITY

Particular description of goods.—Calking-Cotton.
Claims use since Jan. 2, 1920.

Ser. No. 129,246. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE PLYMOUTH FOUNDRY & MACHINE CO., Plymouth, Wis. Filed Mar. 4, 1920.



Particular description of goods.—Ensilage-Cutters and Silo-Fillers.
Claims use since Dec. 31, 1914.

Ser. No. 129,265. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE LEVY, New York, N. Y. Filed Mar. 5, 1920.

HYGIENOL

Particular description of goods.—Talcum Powder, Face-Powder, Cold-Cream, Rouge, Compact-Powder, and Eyebrow-Pencils.
Claims use since August, 1919.

Ser. No. 129,309. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DE LUXE BRUSH COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed Mar. 6, 1920.

DUO

Particular description of goods.—Shaving-Creams for Use Before Shaving.
Claims use since Jan. 21, 1920.

Ser. No. 129,326. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE INDIANA BRASS COMPANY, Frankfort, Ind. Filed Mar. 6, 1920.

INBRACO

Particular description of goods.—Flush-Tank and Water-Closet Fittings.
Claims use since Dec. 1, 1917.

Ser. No. 129,331. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYON & HEALY, Chicago, Ill. Filed Mar. 6, 1920.

BRIGADIER

Particular description of goods.—Cornets, Trumpets, Trombones, and Alto, Tenor, Barytone, and Bass Horns.
Claims use since Jan. 15, 1920.

Ser. No. 129,339. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OLDHAM NEW YORK SAW WORKS, INC., Brooklyn, N. Y. Filed Mar. 6, 1920. Under ten-year proviso.

NEW YORK SPRING

Particular description of goods.—All Classes of Saws for Cutting Wood or Metal.
Claims use since 1878.

Ser. No. 129,363. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WAGNER ELECTRIC MANUFACTURING COMPANY, St. Louis, Mo. Filed Mar. 6, 1920.



Without waiving any common-law rights, no claim is made to the word "Quality," the words "St. Louis, U. S. A.," or the representation of a motor apart from the mark as shown.
Particular description of goods.—Electric Motors, Electric Generators, Electric Converters, Electric Transformers, Current-Rectifiers, Current-Controllers, Ignition-Coils, Relays, and Switches.
Claims use since Feb. 1, 1909.

Ser. No. 129,370. (CLASS 37. PAPER AND STATIONERY.) BROWN COMPANY, Portland, Me. Filed Mar. 8, 1920.

WAXO

Particular description of goods.—Wrapping-Paper.
Claims use since Jan. 1, 1917.

Ser. No. 129,371. (CLASS 37. PAPER AND STATIONERY.) BROWN COMPANY, Portland, Me. Filed Mar. 8, 1920.

SEALO

Particular description of goods.—Wrapping-Paper.
Claims use since about Jan. 1, 1917.

Ser. No. 129,385. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. GOODRICH MANUFACTURER, INC., Chicago, Ill. Filed Mar. 8, 1920.

CARBOMAGNETO

Particular description of goods.—Grinding-Wheels, Oil-Stones, and Razor-Hones.
Claims use since Aug. 1, 1919.

Ser. No. 129,471. (CLASS 39. CLOTHING.) PATRICIAN HAT CORPORATION, New York, N. Y. Filed Mar. 9, 1920.

PATRICIAN

Particular description of goods.—Trimmed Hats for Children, Misses, and Women.
Claims use since Jan. 9, 1920.

Ser. No. 129,489. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BROOKLYN SHIELD & RUBBER COMPANY, Brooklyn, N. Y. Filed Mar. 10, 1920.

INANDOUT

Consisting of the word "Inandout."
Particular description of goods.—Dress-Shields.
Claims use since Jan. 1, 1900.

Ser. No. 129,517. (CLASS 39. CLOTHING.) TURNER FURNISHING GOODS COMPANY, Springfield, Mo. Filed Mar. 10, 1920.

DOUBLEWEAR · UNDERWEAR
TOPCO MILLS

No claim is made herein to the exclusive use of the words "Doublewear," "Underwear," or "Mills" apart from the trade-mark shown.
Particular description of goods.—Underwear, Both Knitted and Flat, One, Two, and Three Pieces, for Men, Women, and Children; Hosiery for Men, Women, and Children; Headwear—viz., Toques, Tams, and Hoods, Both Knitted and Flat; Gloves, Both Knitted and Leather; Mittens, Both Knitted and Leather; Neckties, Both Knitted and Flat; Sweaters, and Shirts, Work, Dress, and Wool, Both Outer and Under.
Claims use since Apr. 1, 1915.

Ser. No. 129,552. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AKTIEBOLAGET INGENIÖRSFIRMAN G. A. LINDSTEDT & CO., Stockholm, Sweden. Filed Mar. 11, 1920.

Galco

Particular description of goods.—Bathtubs and Set-Bowls, Kitchen-Sinks, Door-Closers, Door-Checks, Door-Knobs, Drawer-Handles; Hinges, Butts, Rails, and Tracks for Sliding Doors; Transom-Lifters, Window Weights and Pulleys, Window-Adjusters to Permit Windows to Stay in Position When Open or Closed, Belting-Locks for Joining Transmission-Belts, Safety-Valves, Feed-Valves, Drain-Cocks, Fire-Plugs, Fire Hydrants and Nozzles, Siphons, Gridirons, Fire-Mains, Wheel-Rivets, Metal Ice-Pails, Steam-Traps, Expansion Pipe-Joints, Water-Pipes, Chains and Chain-Links Used in Power Transmission, Metal Tubes for Cooking Apparatus, Banding-Irons, Separate Cooking Vessels and Containers for Use in Fireless Cookers, Steam Cooking-Pots, Broilers, Double Boilers, Frying-Pans, Coffee-Pots, Teapots, Milk-Strainers, and Parts of the Foregoing Goods.
Claims use since the 28th of October, 1915.

Ser. No. 129,580. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Mar. 11, 1920.



No claim is made for the words "R. T. Vanderbilt Co.," "N. Y.," "American Products," and "Clay" apart from the marks shown in the drawing.
Particular description of goods.—Clay Used as a Filler in the Manufacture of Paper, Paints, and Rubber Products.
Claims use since Jan. 1, 1917.

Ser. No. 129,582. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AUTOYRE COMPANY, Oakville, Conn. Filed Mar. 12, 1920.

MAID-EN-WHITE

Particular description of goods.—Bath-Room Fittings, Particularly Soap-Dishes, Towel-Bars, Hooks, Glass-Holders, Toothbrush-Holders, Combination Toothbrush and Glass Holders, Paper-Holders, Sponge-Holders, Combination Sponge and Soap Holders, Tooth-Paste Holders, Shower-Baths, Shower-Bath Attachments, and Shelf-Brackets.
Claims use since Oct. 20, 1919.

Ser. No. 129,640. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MANUFACTURERS' BELT HOOK CO., Chicago, Ill. Filed Mar. 13, 1920.

CLIMAX

Particular description of goods.—Belt-Fasteners.
Claims use since on or about the 5th of August, 1914.

Ser. No. 129,689. (CLASS 39. CLOTHING.) WILLIAM WISNIEWSKI, Flushing, N. Y. Filed Mar. 13, 1920.



William Wisniewski

The portrait is that of the applicant and the signature is his facsimile signature.
Particular description of goods.—Reversible Collars and Cuffs.
Claims use since Jan. 22, 1920.

Ser. No. 129,693. (CLASS 39. CLOTHING.) BEAUMONT DRY GOODS & NOTIONS CO., Beaumont, Tex. Filed Mar. 15, 1920.

BEAUTEX

Particular description of goods.—Men's Work-Shirts, Men's Outer Flannel Shirts, Men's Dress-Shirts, Men's Overalls, Men's Pants; Men's, Women's, Boys', Misses'

and Children's Hose of Cotton, Wool, and Silk; Men's Knit, Cotton and Wool, and Nainsook Union-Suits; Men's Knit, Cotton and Wool, and Nainsook Outer Shirts, and Men's Knit, Cotton and Wool, and Nainsook Drawers.
Claims use since May 19, 1916.

Ser. No. 129,695. (CLASS 39. CLOTHING.) BUXTON GARMENT MFG. CO. INC., Nashua, N. H. Filed Mar. 15, 1920. Under ten-year proviso.

The "NASHUA"

Particular description of goods.—Overalls, Sack-Coats, Grocers' Coats, Work-Aprons, Trousers, Work-Shirts.
Claims use since July 1, 1880.

Ser. No. 129,698. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CLEVELAND AUTOMOBILE COMPANY, Cleveland, Ohio. Filed Mar. 15, 1920.

CLEVELAND

Particular description of goods.—Automobiles.
Claims use since about Apr. 1, 1919.

Ser. No. 129,706. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EASTERN TUBE & TOOL COMPANY, INC., Brooklyn, N. Y. Filed Mar. 15, 1920.

ETTCO

Particular description of goods.—Drill-Chucks.
Claims use since at least as early as December, 1918.

Ser. No. 129,717. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HEXMEN MOTO COMPANY, Racine, Wis. Filed Mar. 15, 1920.

TEMPERSTAT

Particular description of goods.—Carbureters and Air-Regulating Devices for Internal-Combustion Engines.
Claims use since Feb. 26, 1920.

Ser. No. 129,719. (CLASS 7. CORDAGE.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Mar. 15, 1920.



Particular description of goods.—Rope, Cord, Twine, and Binder-Twine.
Claims use since about Jan. 1, 1910.

Ser. No. 129,737. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANDY E. NOLAN, Portland, Oreg. Filed Mar. 15, 1920.

ACORN

Particular description of goods.—Tire-Vulcanizing Apparatus, More Particularly Section-Vulcanizers, Retread-Vulcanizers, and Tube-Plates Used for Vulcanizing.
Claims use since Oct. 1, 1919.

Ser. No. 129,761. (CLASS 39. CLOTHING.) TURNER FURNISHING GOODS COMPANY, Springfield, Mo. Filed Mar. 15, 1920.

TUFCO MILLS

No claim is made herein to the exclusive use of the word "Mills" apart from the trade-mark shown.
Particular description of goods.—Underwear, Both Knitted and Flat, One, Two, and Three Pieces, for Men, Women, and Children; Hosiery, for Men, Women, and Children; Headwear—viz., Toques, Tams, and Hoods, Both Knitted and Flat; Gloves, Both Knitted and Leather; Mittens, Both Knitted and Leather; Neckties, Both Knitted and Flat; Sweaters, and Shirts, Work, Dress, and Wool, Both Outer and Under.
Claims use continuously since its organization Mar. 2, 1916, and previous to that time by stockholders who operated as a partnership concern since Apr. 1, 1915.

Ser. No. 129,802. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIONEER CHEMICAL & MFG. CO., Cleveland, Ohio. Filed Mar. 16, 1920.

KRIST-◇-LITE

No claim is made to the exclusive use of the word except as shown in the drawing.
Particular description of goods.—Chemical Compounds in Granulated or Powdered Form Adapted to be Dissolved in Water to Provide a Cleaner for Removing Grease, Oils, Paints, Dirt, and Refuse of All Kinds.
Claims use since Feb. 10, 1920.

Ser. No. 129,824. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BRAINERD & ARMSTRONG COMPANY, New London, Conn. Filed Mar. 17, 1920.

GILT EDGE

Consisting of the words "Gilt Edge."
Particular description of goods.—Fabrics in the Piece Woven of Silk in Combination with Cotton and Wool and other Materials.
Claims use since Jan. 1, 1896.

Ser. No. 129,830. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) CURTIS-HOSEY DRYER CO., Philadelphia, Pa. Filed Mar. 17, 1920.

THERMO-MYST

Particular description of goods.—Lumber-Drying Kilns.
Claims use since Mar. 1, 1920.

Ser. No. 129,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHATTUCK & JONES, INCORPORATED, Boston, Mass. Filed Mar. 17, 1920. Under ten-year proviso.

Gilt Edge

Particular description of goods.—A Boneless Salt Codfish.
Claims use since about 1892.

Ser. No. 129,864. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) VICTOR E. SODERQUIST, Marshalltown, Iowa. Filed Mar. 17, 1920.

"Mille Teray"



Particular description of goods.—Card Games.
Claims use since Mar. 6, 1920.

Ser. No. 129,868. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALWORTH MFG. CO., Boston, Mass. Filed Mar. 17, 1920.

PARMELEE

Particular description of goods.—Wrenches.
Claims use since Mar. 28, 1914.

Ser. No. 129,877. (CLASS 37. PAPER AND STATIONERY.) THE EXPEDITE ORGANIZATION, Chicago, Ill. Filed Mar. 18, 1920.

"Expedite"

Particular description of goods.—Paper or Fabric Filing and Indexing Devices.
Claims use since Mar. 1, 1920.

Ser. No. 129,901. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MADDEN SAFETY RAZOR CORPORATION, New York, N. Y. Filed Mar. 18, 1920.

MADDEN DE LUXE

No claim is made to the term "De Luxe" apart from the mark as shown by the drawing.
Particular description of goods.—Safety-Razors and Safety-Razor Blades.
Claims use since Jan. 31, 1919.

Ser. No. 129,914. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 18, 1920.

FELTEX

Particular description of goods.—Insoles Made of Felt Composition.
Claims use since Feb. 10, 1920.

Ser. No. 129,931. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE HIND & HARRISON PLUSH CO., New York and Clark Mills, N. Y. Filed Mar. 19, 1920.

LUXURAL

Particular description of goods.—Pile-Fabric Piece Goods.
Claims use since Mar. 10, 1920.

Ser. No. 129,934. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JEWELL BELTING COMPANY, Hartford, Conn. Filed Mar. 19, 1920.

KING PHILIP

Particular description of goods.—Lace-Leather and Cut Lacings.
Claims use since April, 1914.

Ser. No. 130,002. (CLASS 12. CONSTRUCTION MATERIALS.) TOCH BROTHERS, New York, N. Y. Filed Mar. 20, 1920.

R.I.W.
REMEMBER IT'S WATERPROOF

"ROKTOP"

No claim being made to the exclusive right to the use of the words "Remember It's Waterproof" apart from the other features of the mark.

Particular description of goods.—Solid and Liquid Material for Hardening and Dust-Proofing Cement or Concrete Floors.

Claims use since Jan. 15, 1920.

Ser. No. 130,003. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) P. A. WILLIAMS, Atlanta, Ga. Filed Mar. 20, 1920.

NU-MAN

Particular description of goods.—A Reconstructive Tonic.

Claims use since Jan. 1, 1920.

Ser. No. 130,009. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. & A. MANUFACTURING CO., Seattle, Wash. Filed Mar. 22, 1920.

A&A

Particular description of goods.—Grinding Compositions.

Claims use since Mar. 8, 1920.

Ser. No. 130,018. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE BUCKEYE PRODUCING CO., Toledo, Ohio. Filed Mar. 22, 1920.

GREEN SEAL

Particular description of goods.—Ginger-Ale, Root-Beer, and Cider.

Claims use since Feb. 19, 1920.

Ser. No. 130,023. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHARLES DUBIN, Philadelphia, Pa. Filed Mar. 22, 1920.

IDEAL

Particular description of goods.—Hand-Needles for Forming Ornamental Loops on Fabrics.

Claims use since Oct. 1, 1919.

Ser. No. 130,034. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHARLES I. HENDRICKS, New York, N. Y. Filed Mar. 22, 1920.

A+B+S+C+O

Particular description of goods.—Material in Sheet Form to be Cut Up and Made Into Protective Coverings for the Platens or Rolls of Typewriters, Adding-Machines, and the Like.

Claims use since Dec. 27, 1919.

Ser. No. 130,060. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) REDMANOL CHEMICAL PRODUCTS CO., Chicago, Ill. Filed Mar. 22, 1920.

REDMANOL

Particular description of goods.—Smokers' Articles—Namely, Pipes, Pipe-Mouthpieces, Cigar-Holders, Cigarette-Holders—Not of Precious Metal.

Claims use since June 25, 1914.

Ser. No. 130,063. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SPAULDING CHAIN CORPORATION, Bloomfield, N. J. Filed Mar. 22, 1920.

Spaulding

Particular description of goods.—Sprocket-Chain Links Used in Forming Sprocket-Chains.

Claims use since Dec. 22, 1919.

Ser. No. 130,084. (CLASS 12. CONSTRUCTION MATERIALS.) BENNETTSVILLE BRICK COMPANY, Florence, S. C. Filed Mar. 23, 1920.

BUNGALOW

Particular description of goods.—Brick.

Claims use since Jan. 1, 1920.

Ser. No. 130,132. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ERNEST HENRY FUDGE, Windsor, England. Filed Mar. 24, 1920.

THE ROUND TOWER
SILVER & PLATE POLISH

No claim being made to the words "Silver and Plate Polish" apart from the mark shown in the drawing.

Particular description of goods.—A Liquid Preparation for Cleaning and Polishing Silver and Plate.

Claims use since Jan. 6, 1913.

Ser. No. 130,138. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES L. GRIGG, St. Louis, Mo. Filed Mar. 24, 1920.

HOWDY

Particular description of goods.—Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups and Flavorings Therefor.

Claims use since on or about Mar. 17, 1920.

Ser. No. 130,164. (CLASS 37. PAPER AND STATIONERY.) ERROR-NO INCORPORATED, Rochester, N. Y. Filed Mar. 25, 1920.

ERROR-NO

Particular description of goods.—Copy-Holders.

Claims use since Mar. 24, 1919.

Ser. No. 130,171. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HOHMANN-NELSON COMPANY, Eau Claire, Wis. Filed Mar. 25, 1920.

Honeco

Particular description of goods.—Instruments for Indicating or Measuring Temperature, Pressure, Vacuum, Time Operations, Moisture, Liquid-Levels, Condensate Discharge; Instruments for Controlling Temperature, Pressure, Vacuum, Time Operations, Liquid-Levels, Condensate Discharge; Instruments for Recording Temperature, Pressure, Vacuum, Time Operations, Liquid-Levels, Mechanical Movements, Gravity, Condensate Discharge, and Parts and Accessories for All of the Above, Including Gages and Valves.

Claims use since on or about Aug. 1, 1919.

Ser. No. 130,177. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ON-THE-DOT LEVEL DEVICE, Chicago, Ill. Filed Mar. 25, 1920.

O-T-D

Particular description of goods.—Levels Adapted to be Removably Attached within an Opening in a Board or the Like Having One Substantially Straight Edge.

Claims use since June 1, 1919.

Ser. No. 130,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POWELL'S, New York, N. Y. Filed Mar. 25, 1920.

Powell's
NEW YORK

No claim being made to the exclusive use of the words "New York" apart from the mark shown in the drawing.

Particular description of goods.—Candy.

Claims use since about 1880.

Ser. No. 130,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE YOUNGSTOWN CHEMICAL CO., Youngstown, Ohio. Filed Mar. 25, 1920.

NON-ALCO

Particular description of goods.—Emulsions of Almond, Anise, Cinnamon, Ginger, Lemon, Terpeneless Lemon, Mace, Nutmeg, Orange, Sassafras, Tutti-Frutti, Wintergreen, Vanilla with Added Vanillin, Vanilla Compound with Added Vanillin, Vanilla Compound with Added Vanillin and Coumarin, Vanilla Compound with Tonka and Added Vanillin and Coumarin, Peppermint, Spearmint, Allspice, Celery, Cherry, Cloves, Coffee, Pineapple, Raspberry, Strawberry, Tutti-Frutti; Emulsions of Imitation Banana, Maple, Pineapple, Pistachio, Raspberry, Strawberry, Violet and Peach for Food Flavoring Purposes.

Claims use since Jan. 1, 1920.

Ser. No. 130,198. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BARCO MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 26, 1920.

BARCO

Particular description of goods.—Valves for Pipe Lines, Cocks; Fittings for Air, Water, Steam, and other Fluid-Conveying Pipes; Blower-Valves, Fittings, and Connections Therefor; Self-Closing Valves, Check-Valves, Fluid-Pressure-Operated Valves, Relief-Valves, Flexible Connections and Terminals for Fluid-Conveying Pipes, Ball-and Socket Joints for Pipes.

Claims use since May 1, 1908.

Ser. No. 130,205. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. EDELMANN & COMPANY, Chicago, Ill. Filed Mar. 26, 1920.

Han-D

Particular description of goods.—Tools Comprising Wrenches, Hammers, and Screw-Drivers.
Claims use since July 8, 1919.

Ser. No. 130,217. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GORDON BEAN AND PEA HARVESTER CO., Elizabeth City, N. C. Filed Mar. 26, 1920.

GORDON'S BEAN HARVESTER L. S. GORDON ELIZABETH CITY, N.C.

No claim being made for the words "Gordon's Bean Harvester" and "Elizabeth City, N. C." apart from the mark shown by the drawing.
Particular description of goods.—Bean and Pea Harvesters.
Claims use since September, 1918.

Ser. No. 130,218. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOURLAND TYPEWRITER CORPORATION, New York, N. Y. Filed Mar. 26, 1920.

GOURLAND

Particular description of goods.—Typewriting-Machines.
Claims use since on or about Feb. 24, 1920.

Ser. No. 130,243. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SLAVIN BROS. COMPANY, Brooklyn, N. Y. Filed Mar. 26, 1920.

EVER-NU

Particular description of goods.—Liquid Stove-Polish.
Claims use since Mar. 18, 1920.

Ser. No. 130,268. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JAMES B. CHURCH, Jacksonville, Fla., and Southport, N. C. Filed Mar. 27, 1920.



Particular description of goods.—Rowlock-Sockets.
Claims use since about Mar. 22, 1920.

Ser. No. 130,334. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NEW YORK BLOWER CO., Laporte, Ind., and Chicago, Ill. Filed Mar. 29, 1920.

"SERIVANE"

Particular description of goods.—Blowers and Fans.
Claims use since about 1910.

Ser. No. 130,397. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VICTORY RING COMPRESSOR COMPANY, Grand Rapids, Mich. Filed Mar. 30, 1920.

THE VICTORY

Particular description of goods.—Piston-Ring Compressors.
Claims use since on or about Dec. 1, 1919.

Ser. No. 130,410. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) W. H. DORMAN & CO. LIMITED, Stafford, England. Filed Mar. 31, 1920.

FLEXSTEL

Particular description of goods.—Metallic Pipes and Unions and Sections.
Claims use since June 12, 1919.

Ser. No. 130,455. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE VICTOR SLICING MACHINE CO., Philadelphia, Pa. Filed Mar. 31, 1920.

VICTOR

Particular description of goods.—Meat-Slicing Machines.
Claims use since Feb. 15, 1920.

Ser. No. 130,456. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHAS. WEBB AND SON, New York, N. Y. Filed Mar. 31, 1920.



Particular description of goods.—Sewing-Needles, Embroidery-Needles, Knitting-Needles, Knitting-Pins, and Crochet-Hooks for Hand Use.
Claims use since Aug. 17, 1915.

Ser. No. 130,472. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE & KNIFE COMPANY, Pittsburgh, Pa. Filed Apr. 1, 1920.

CALMA

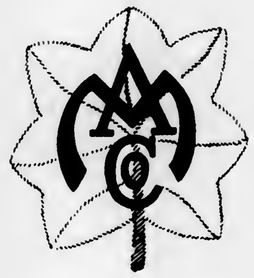
Particular description of goods.—Steel.
Claims use since Jan. 16, 1920.

Ser. No. 130,473. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE & KNIFE COMPANY, Pittsburgh, Pa. Filed Apr. 1, 1920.

SEMDEX

Particular description of goods.—Steel.
Claims use since Jan. 16, 1920.

Ser. No. 130,483. (CLASS 39. CLOTHING.) MAJOR APRON COMPANY, INCORPORATED, Madison, Ind., and Chicago, Ill. Filed Apr. 1, 1920.



Particular description of goods.—Ladies', Misses', and Children's Aprons and Wash-Dresses.
Claims use since Apr. 1, 1919.

Ser. No. 130,513. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton and Spring Grove, Pa. Filed Apr. 2, 1920.

Graceline

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 24, 1920.

Ser. No. 130,514. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton and Spring Grove, Pa. Filed Apr. 2, 1920.

Primrose

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Mar. 1, 1920.

Ser. No. 130,515. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton and Spring Grove, Pa. Filed Apr. 2, 1920.

Aphrodite

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 25, 1920.

Ser. No. 130,519. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COUDURIER, FRUCTUS & DESCHER, Lyon, France, and New York, N. Y. Filed Apr. 2, 1920.

Velours Tanagra

No claim being made to the exclusive use of the word "Velours" apart from the mark as shown in the drawing.
Particular description of goods.—Silk and Velvet Piece Goods.
Claims use since Dec. 13, 1919.

Ser. No. 130,574. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE W. D. BUCHANAN COMPANY, Greenville, Ohio. Filed Apr. 3, 1920.

Betty Jane

Particular description of goods.—Chocolate Candy.
Claims use since Apr. 21, 1919.

Ser. No. 130,613. (CLASS 39. CLOTHING.) MORRIS LOUIS POLLARD, New York, N. Y. Filed Apr. 3, 1920.

SUPERKNIT

Particular description of goods.—Hosiery for Men and Women, Knit Gloves, Mittens, Hockey-Caps, Knit Sacks, and Knit Underwear.
Claims use since Nov. 15, 1919.

Ser. No. 130,618. (CLASS 39. CLOTHING.) JESSE FRIEDENWALD ROHR, Buffalo, N. Y. Filed Apr. 3, 1920.

100 PER CT. PAR VALUE

No claim is made to exclusive use of "100 Per Ct. Value" apart from the mark shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since Dec. 29, 1919.

Ser. No. 130,635. (CLASS 39. CLOTHING.) GEORGE E. WEBER, Philadelphia, Pa. Filed Apr. 3, 1920.

ROTARY

Particular description of goods.—Hosiery.
Claims use since Nov. 25, 1919.

Ser. No. 130,644. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLEVELAND BRASS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Apr. 5, 1920.

PRESTOP

Particular description of goods.—Faucets, Manually-Operated Valves and Cocks.
Claims use since about May 9, 1919.

Ser. No. 130,679. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MICHIGAN LUBRICATOR COMPANY, Detroit, Mich. Filed Apr. 5, 1920.

MC

Particular description of goods.—Radiator-Valves.
Claims use since Oct. 8, 1918.

Ser. No. 130,690. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SENTINEL APPLIANCES COMPANY, New York, N. Y. Filed Apr. 5, 1920.

SENTINEL

Particular description of goods.—Mechanical Fire-Extinguishers.
Claims use since Feb. 25, 1920.

Ser. No. 130,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Apr. 5, 1920.

WIRTHMORE

Particular description of goods.—Wheat Feed and Hominy-Meal.
Claims use since March, 1903.

Ser. No. 130,698. (CLASS 39. CLOTHING.) THE SCHWARZ-HEXTER CO., Cleveland, Ohio. Filed Apr. 5, 1920.

Jaunty Jane

Particular description of goods.—Women's Coats.
Claims use since Dec. 1, 1919.

Ser. No. 130,699. (CLASS 39. CLOTHING.) THE SCHWARZ-HEXTER CO., Cleveland, Ohio. Filed Apr. 5, 1920.

THE SCHWARZ HEXTER CO

Particular description of goods.—Women's Coats.
Claims use since Dec. 1, 1919.

Ser. No. 130,700. (CLASS 12. CONSTRUCTION MATERIALS.) STACK CONSTRUCTION COMPANY, Duluth, Minn. Filed Apr. 5, 1920.

POLARIS CONCRETE PRODUCTS

No claim is made to the words "Concrete Products" apart from the fanciful form of the mark shown.
Particular description of goods.—Fabricated Concrete Building Material—Namely, Piling, Posts, Tiling, and Beams.
Claims use since Mar. 26, 1920.

Ser. No. 130,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed Apr. 5, 1920.

PAUL REVERE

Particular description of goods.—Wheat-Flour.
Claims use since Feb. 21, 1902.

Ser. No. 130,715. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) L. D. BLOCH & CO., New York, N. Y. Filed Apr. 6, 1920.

BON TON

Particular description of goods.—Silver-Plated Hollow and Flat Ware for Table Service.
Claims use since about Sept. 3, 1917.

Ser. No. 130,733. (CLASS 39. CLOTHING.) STERN, GILES & RIEMER, INC., New York, N. Y. Filed Apr. 6, 1920.

STILER

Consisting of the word "Stiler."
Particular description of goods.—Infants' Creepers, Children's and Youths' Rompers, Children's and Misses' Bloomers, and Children's, Misses', and Ladies' Middy-Blouses.
Claims use since July 10, 1919.

Ser. No. 130,740. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN IRON PRODUCTS COMPANY, INC., New York, N. Y. Filed Apr. 7, 1920.

AMIRON

Consisting of the word "Amiron."
Particular description of goods.—Nails, Spikes, Bolts, Nuts, Rivets, and Steel and Iron Pipes.
Claims use since Jan. 1, 1919.

Ser. No. 130,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARMS CO., Newark, N. J. Filed Apr. 8, 1920.

REID'S REID'S

Particular description of goods.—Candy and Fruit Tablets.
Claims use since Dec. 1, 1917.

Ser. No. 130,828. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) L. E. GARRIGUS & CO., Newark, N. J. Filed Apr. 8, 1920.

Particular description of goods.—Link-Buttons, Vest-Buttons, Studs, Scarf-Pins, Charms, Lockets, Tie-Clasps, Key-Rings, Cigar-Cutters, Bracelets, and Puff-Boxes, the Goods Being Made of or Plated with Precious Metal.
Claims use since Mar. 25, 1920.

Ser. No. 130,844. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE NELOMOLINE COMPANY, New York, N. Y. Filed Apr. 8, 1920.

Lyrock

Particular description of goods.—Cereal and Sugar Syrups for Soda-Fountain Purposes for Making Soft Drinks.
Claims use since May 9, 1919.

Ser. No. 130,848. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITAN CANDY CO., Milwaukee, Wis. Filed Apr. 8, 1920.

CLARETTA

Particular description of goods.—Candies.
Claims use since Dec. 28, 1919.

Ser. No. 130,871. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN WIRE FABRICS COMPANY, Chicago, Ill. Filed Apr. 9, 1920.

Particular description of goods.—Screen Wire-Cloth.
Claims use since 1911.

Ser. No. 130,917. (CLASS 10. FERTILIZERS.) THE POCOMOKE GUANO CO., Norfolk, Va. Filed Apr. 9, 1920.

POCOMOKE

Applicant is the owner of registered trade-mark No 17,307, dated Dec. 24, 1889, for same word.
Particular description of goods.—Fertilizer.
Claims use since October, 1877.

Ser. No. 130,921. (CLASS 39. CLOTHING.) F. A. PATRICK & Co., Duluth, Minn. Filed Apr. 9, 1920.

Isabelle

Particular description of goods.—Fabric Gloves and Leather Gloves.
Claims use since Jan. 1, 1918.

Ser. No. 130,922. (CLASS 39. CLOTHING.) F. A. PATRICK & Co., Duluth, Minn. Filed Apr. 9, 1920.

Krackerjack

Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1919.

Ser. No. 130,926. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) F. A. PATRICK & Co., Duluth, Minn. Filed Apr. 9, 1920.

Patrick

Consists of the surname "Patrick" in the form illustrated in the accompanying drawing, which shows a facsimile of the handwriting of Fred A. Patrick, who is the president of said corporation.
Particular description of goods.—Clothes-Pressing Iron, Electric Heated.
Claims use since Oct. 1, 1918.

Ser. No. 130,952. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND HEATER CO., Cleveland, Ohio. Filed Apr. 10, 1920.

REX GAS WATER HEATER

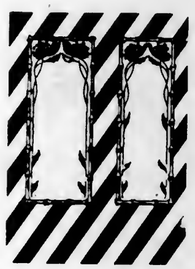
The right to the exclusive use of the words "Gas" and "Water Heater" is hereby disclaimed except in connection with the other features of the mark shown.
Particular description of goods.—Natural and Artificial Gas Water-Heaters.
Claims use since July 1, 1915.

Ser. No. 130,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MORSE CO., Chicago, Ill. Filed Apr. 10, 1920.

BoKoo

Particular description of goods.—Candy.
Claims use since Mar. 1, 1920.

Ser. No. 130,997. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. A. VANTINE & CO., INC., New York and Long Island City, N. Y. Filed Apr. 10, 1920.



The lines upon the drawing indicate colors.
Particular description of goods.—Shaving-Cream Suitable for Use Before Shaving.
Claims use since Mar. 26, 1920.

Ser. No. 130,998. (CLASS 39. CLOTHING.) JOSEPH P. VOORHEES, New York, N. Y. Filed Apr. 10, 1920.



Particular description of goods.—Hosiery.
Claims use since Mar. 2, 1920.

Ser. No. 131,007. (CLASS 43. THREAD AND YARN.) ASMUS BRADLEY CO., Chicago, Ill. Filed Apr. 12, 1920.

ASBRA

Particular description of goods.—Thread, Yarn, and Crochet Embroidery-Cotton.
Claims use since the 10th day of March, 1920.

Ser. No. 131,029. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MUSKATO BEVERAGE COMPANY, New Orleans, La. Filed Apr. 12, 1920.

MUSKATO

The lining shown on the drawings represents shading shown in the specimens.
Particular description of goods.—Beverage, Non-Alcoholic, Sold as a Soft Drink.
Claims use since Mar. 1, 1920.

Ser. No. 131,074. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HENKEL-CLAUSS CO., Fremont, Ohio. Filed Apr. 13, 1920. Under ten-year proviso.

Clauss

Particular description of goods.—Strops.
Claims use since about 1889.

Ser. No. 131,116. (CLASS 37. PAPER AND STATIONERY.) R. H. MACY & CO., INC., New York, N. Y. Filed Apr. 14, 1920.

Everyday LINEN

The word "Linen" being disclaimed apart from the mark as shown.
Particular description of goods.—Writing-Paper.
Claims use since Apr. 1, 1919.

Ser. No. 131,124. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PACKARD MOTOR CAR COMPANY, Detroit, Mich. Filed Apr. 14, 1920.

FUELIZER

Particular description of goods.—Mixture-Heaters for Hydrocarbon-Motors.
Claims use since Feb. 6, 1920.

Ser. No. 131,132. (CLASS 39. CLOTHING.) SONNY MANUFACTURING CO., Milwaukee, Wis. Filed Apr. 14, 1920.

"Sonny"
"FOR EVERY MOTHER'S SON"

Particular description of goods.—Boys' Blouses, Play-Suits or Rompers, Shirts, and Knickerbockers.
Claims use since October, 1914.

Ser. No. 131,138. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HERMAN WEISSMAN, New York, N. Y. Filed Apr. 14, 1920.



Particular description of goods.—Precious Stones, Jewelry for Personal Wear, Not Including Watches, Semi-precious Stones, Artificial Precious Stones, Artificial Pearls.
Claims use since Feb. 1, 1920.

Ser. No. 131,157. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY DEUSCHEL, Columbia, Pa. Filed Apr. 15, 1920.

O-K

Particular description of goods.—Hoisting Machinery—Namely, Heavy-Duty, Double-Drum Geared Hoists, Heavy-Duty Double-Drum Geared Hoists Equipped with Double-Drum Boom-Swingers, Heavy-Duty Single-Drum Geared Hoists, Heavy-Duty Single-Drum Geared Hoists with Double-Drum Boom-Swingers, Light-Duty Double-Drum Geared Hoists, Light-Duty Single-Drum Hoists, Single-Drum Geared Hoists, Reversible Hoists, Geared Hay-Hoists with Spring-Release Drum and Automatic Brake without Return-Drum, and Geared Hay-Hoists with Spring-Release Drum and Automatic Brake with Return-Drum.
Claims use since Jan. 13, 1913.

Ser. No. 131,158. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE CARPET CO., New York, N. Y. Filed Apr. 15, 1920.

PRIMROSE

Consisting of the word "Primrose."
Particular description of goods.—Rugs Made of Wool and Cotton.
Claims use since January, 1919.

Ser. No. 131,167. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. HART & BROTHER, San Francisco, Calif. Filed Apr. 15, 1920.

BON VOYAGE

Particular description of goods.—Silk Piece Goods.
Claims use since Dec. 15, 1919.

Ser. No. 131,186. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) TOM B. PAULOS, Polo, Ill. Filed Apr. 15, 1920.

Yellow River

Particular description of goods.—A Non-Alcoholic Beverage Sold as a Soft Drink.
Claims use since Apr. 1, 1920.

Ser. No. 131,187. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PURITAN SILKS CORPORATION, Chicago, Ill. Filed Apr. 15, 1920.

BLACK BEAUTY

Particular description of goods.—Silk Piece Goods.
Claims use since Apr. 13, 1920.

Ser. No. 131,201. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE AIR-WAY COMPANY, Toledo, Ohio. Filed Apr. 16, 1920.



Particular description of goods.—Electric Vacuum-Cleaners.
Claims use since October, 1919.

Ser. No. 131,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURLEY FEED MANUFACTURING COMPANY, Burley, Idaho. Filed Apr. 16, 1920.



The phrase "Balanced Rations for All Livestock" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Feed for Live Stock and Poultry.
Claims use since about Dec. 15, 1919.

Ser. No. 131,246. (CLASS 12. CONSTRUCTION MATERIALS.) ANDERSEN LUMBER COMPANY, Hudson, Wis., and South Stillwater, Minn. Filed Apr. 17, 1920.



The exclusive use of the descriptive words "White Pine Frames" and of the representation of a white-pine window-frame and the use of the surname "Andersen" are expressly disclaimed except in the mark shown. The field of the mark is blue, the ring and bar are red, while the letters and representation of the frame are white.
Particular description of goods.—Wooden Window and Door Frames.
Claims use since July 1, 1917.

Ser. No. 131,261. (CLASS 42. KNITTED, NETTED, AND TENTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Apr. 17, 1920.

Vellucia

Consisting of the word "Vellucia."
Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1920.

Ser. No. 131,299. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE ANSONIA NOVELTY CO., Ansonia, Conn. Filed Apr. 19, 1920.

ANCO

Particular description of goods.—Sewing-Thimbles.
Claims use since 1905.

Ser. No. 131,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETERPACK CANNING COMPANY, Decoto, Calif. Filed Apr. 19, 1920.

BETERPACK BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruit and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,303. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETERPACK CANNING COMPANY, Decoto, Calif. Filed Apr. 19, 1920.

PALS

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,308. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CENTRAL CREAMERIES, San Francisco, Calif. Filed Apr. 19, 1920.

CAL LAC.

Particular description of goods.—Dried Milk Solids in Powder Form.
Claims use since Mar. 1, 1920.

Ser. No. 131,316. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DECATUR BREWING CO., Decatur, Ill. Filed Apr. 19, 1920.

SANGAMO

Particular description of goods.—A Malt Extract Used for Food Purposes.
Claims use since Mar. 29, 1920.

Ser. No. 131,354. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLOYD H. RICHARDSON, Chicago, Ill. Filed Apr. 19, 1920.



The trade-mark consists of the autograph signature of the applicant.
Particular description of goods.—Honey.
Claims use since Aug. 1, 1919.

Ser. No. 131,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN LEANDRO CANNING CO., San Leandro, Calif. Filed Apr. 19, 1920.

EDEN HEART

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN LEANDRO CANNING CO., San Leandro, Calif. Filed Apr. 19, 1920.

SUNSTRAND

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,368. (CLASS 42. KNITTED, NETTED, AND TENTILE FABRICS.) WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Apr. 19, 1920.

CAMELLA

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Apr. 5, 1920.

Ser. No. 131,369. (CLASS 42. KNITTED, NETTED, AND TENTILE FABRICS.) WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Apr. 19, 1920.

POMINESE

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Apr. 5, 1920.

Ser. No. 131,394. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEHN & FINK, INC., New York, N. Y. Filed Apr. 20, 1920.

Lysol

Particular description of goods.—Soap and Shaving-Soap in Cream Form.
The trade-mark has been continuously used in the business of said corporation in connection with soap since about March, 1917, and in connection with shaving-soap in cream form since about August, 1917. The trade-mark has been continuously and exclusively used in the business of said corporation and in the business of its predecessors from whom title was derived in connection with an antiseptic and disinfectant since about 1890, and the said mark was on January 13, 1920, registered by said corporation under No. 128,764 for an antiseptic and disinfectant.

Ser. No. 131,395. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONG HANDKERCHIEF CO., INC., Passaic, N. J., and New York, N. Y. Filed Apr. 20, 1920.

333

Particular description of goods.—Handkerchiefs.
Claims use since on or about January, 1910.

Ser. No. 131,398. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL HAIR GOODS CO., Chicago, Ill. Filed Apr. 20, 1920.

"KOMPACKT"

Consisting of the word "Kompackt."
Particular description of goods.—Hair-Nets.
Claims use since Mar. 27, 1920.

Ser. No. 131,401. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GUSTAV L. STRAUB, New York, N. Y. Filed Apr. 20, 1920.

AU REVOIR
Mausoleum Wreath

No claim being made to the words "Mausoleum Wreath" apart from the mark shown on the drawing.
Particular description of goods.—Natural Prepared Floral Wreath.
Claims use since October, 1919.

Ser. No. 131,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Apr. 21, 1920.

Lux-Well

Particular description of goods.—Combination Veil and Hair-Nets and Veils and Hair-Nets.
Claims use since Apr. 1, 1918.

Ser. No. 131,499. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. H. NIOLON & SON, Meridian, Miss. Filed Apr. 22, 1920.

OLO

Particular description of goods.—Coffee and Mixture of Coffee, Chicory, and Cereal.
Claims use since 1883.

Ser. No. 131,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. ABRAHAM COMPANY, Moline, Ill. Filed Apr. 24, 1920.

"STARVED ROCK"

Particular description of goods.—Candy.
Claims use since Mar. 1, 1920.

Ser. No. 131,626. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR W. BULL, Ardmore, Pa. Filed Apr. 26, 1920.

PRESTO

Particular description of goods.—Cream-Whip.
Claims use since Mar. 20, 1920.

Ser. No. 131,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLIRTATION CANDY CO., Chicago, Ill. Filed Apr. 26, 1920.

Flirtation

Particular description of goods.—Chocolates.
Claims use since Dec. 21, 1919.

Ser. No. 131,707. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KROWER-TYNBERG CO. INC., New York, N. Y. Filed Apr. 27, 1920.

KATY

Consisting of the word "Katy."
Particular description of goods.—Cotton and Silk Piece Goods and Mixtures of the Same and for Linen and Artificial-Silk Piece Goods.
Claims use since March, 1919.

Ser. No. 131,712. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAC-LAR BATTERY COMPANY, INC., Detroit, Mich. Filed Apr. 27, 1920.

MAC-LAR

Particular description of goods.—Electric Storage Batteries and Connectors, Terminals, Battery-Plates, Battery-Jars, and Battery-Boxes Therefor.
Claims use since May 11, 1919.

Ser. No. 131,745. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EUGENE O. REED COMPANY, Chicago, Ill. Filed Apr. 28, 1920.

CLAN

Particular description of goods.—Candy.
Claims use since Apr. 1, 1920.

Ser. No. 131,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY SIDE CANNING CO., Alviso, Calif. Filed Apr. 29, 1920.

CALFRUIT

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July, 1919.

Ser. No. 131,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY SIDE CANNING CO., Alviso, Calif. Filed Apr. 29, 1920.

RADIUM

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July, 1919.

Ser. No. 131,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONCORDIA MILL & ELEVATOR COMPANY, Concordia, Mo. Filed Apr. 29, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since about September, 1913.

Ser. No. 131,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CO-OPERATIVE CANNERIES, San Jose, Calif. Filed Apr. 29, 1920.

X-RAY

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Sept. 6, 1919.

Ser. No. 131,783. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PAUL J. DONAVAN, Denver, Colo. Filed Apr. 29, 1920.

DK

Particular description of goods.—Spark-Plugs.
Claims use since about Jan. 10, 1920.

Ser. No. 131,830. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EUGENE O. REED COMPANY, Chicago, Ill. Filed Apr. 29, 1920.

TREATIES

Particular description of goods.— Candy.
Claims use since Apr. 1, 1920.

Ser. No. 131,832. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAX STRAUSS, New York, N. Y. Filed Apr. 29, 1920.

A'LURE

Consisting of the word "A'Lure."
Particular description of goods.—Woven and Knitted Silk Piece Goods.
Claims use since Apr. 1, 1920.

Ser. No. 131,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SPRINGVILLE CANNING CO., Springvill , N. Y. Filed Apr. 29, 1920.

Florette

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1905.

Ser. No. 131,837. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SPRINGVILLE CANNING CO., Springville, N. Y. Filed Apr. 29, 1920.

Concord Brand

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Vegetables.
Claims use since Mar. 1, 1898.

Ser. No. 131,870. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KANT BREAK SPARK PLUG COMPANY, St. Louis, Mo. Filed Apr. 30, 1920.

K-B

Particular description of goods.—Spark-Plugs.
Claims use since Apr. 1, 1920.

Ser. No. 131,886. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED W. SPELLMEYER, New York, N. Y. Filed Apr. 30, 1920.

STRAWBERRY

Particular description of goods.—Eggs.
Claims use since June, 1919.

Ser. No. 131,887. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED W. SPELLMEYER, New York, N. Y. Filed Apr. 30, 1920.



Particular description of goods.—Eggs.
Claims use since Mar. 17, 1919.

Ser. No. 131,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MID-WEST MILLING COMPANY, Abilene, Kans. Filed May 1, 1920.

Particular description of goods.—Wheat-Flour.
Claims use since April, 1919.

Ser. No. 131,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed May 1, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Feb. 15, 1901.

Ser. No. 131,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY CO., Minneapolis, Minn. Filed May 1, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Aug. 1, 1902.

Ser. No. 131,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES T. WHITTIER, New York, N. Y. Filed May 1, 1920.

Royal

Particular description of goods.—Corn-Starch.
Claims use since Apr. 28, 1920.

Ser. No. 132,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONTINENTAL CANDY CORPORATION, Chicago, Ill. Filed May 4, 1920.

FIRESIDE

Particular description of goods.—Marshmallows.
Claims use since July 30, 1917.

Ser. No. 132,048. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HOBBS STORAGE BATTERY COMPANY, Los Angeles, Calif. Filed May 5, 1920.



Particular description of goods.—Electrical Storage Batteries.
Claims use Feb. 1, 1920.

Ser. No. 132,058. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed May 5, 1920.



Particular description of goods.—Oleomargarin.
Claims use since Dec. 18, 1918.

Ser. No. 132,061. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIPS-BRINTON COMPANY, Kennett Square, Pa. Filed May 5, 1920.



Particular description of goods.—Ignition Systems for Internal-Combustion Engines and Condensers.
Claims use since about Mar. 26, 1916.

Ser. No. 132,108. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHERN ILLINOIS CEREAL COMPANY, Chicago, Ill. Filed May 6, 1920.

HONEST TO GOODNESS

Particular description of goods.—Stock Feed.
Claims use since on or about Apr. 1, 1920.

Ser. No. 132,128. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE THEOBALD FLOUR MILLS CO., Northfield, Minn. Filed May 6, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since about Apr. 4, 1910.

Ser. No. 132,130. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE THEOBALD FLOUR MILLS CO., Northfield, Minn. Filed May 6, 1920.

CREATOR

Particular description of goods.—Wheat-Flour.
Claims use since about the 21st day of July, 1919.

Ser. No. 132,221. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.

ALFOSWEET

Particular description of goods.—Stock Feed.
Claims use since Dec. 4, 1919.

Ser. No. 132,222. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.

ALFOGREEN

Particular description of goods.—Stock Feed.
Claims use since Dec. 4, 1919.

Ser. No. 132,224. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.



Particular description of goods.—Stock Feed.
Claims use since Nov. 2, 1917.

Ser. No. 132,225. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.

BON-TON

Particular description of goods.—Stock Feed.
Claims use since July 19, 1919.

Ser. No. 132,226. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.

BUTTER-BALL

Particular description of goods.—Stock Feed.
Claims use since Mar. 4, 1918.

Ser. No. 132,248. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES GRAHAM, Detroit, Mich. Filed May 10, 1920.

SMACK

Particular description of goods.—A Cereal, a Food Composed of Various Grains.
Claims use since May 3, 1920.

Ser. No. 132,288. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio. Filed May 11, 1920.

GREEN SEAL

Particular description of goods.—A Dairy, Stock, Cattle, Farm-Animal, and Poultry Food.
Claims use since Sept. 6, 1919.

Ser. No. 132,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio. Filed May 11, 1920.

GUMBO
HORSE AND MULE FEED
SWEET

No claim is made for the words "Horse and Mule Feed Sweet" apart from the mark shown in the drawing.
Particular description of goods.—Dairy, Stock, Cattle, and Farm-Animal Food.
Claims use since Sept. 6, 1919.

Ser. No. 132,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio. Filed May 11, 1920.

M-I-M
POULTRY FEED

No claim is made for the words "Poultry" and "Feed" apart from the mark shown in the drawing.
Particular description of goods.—A Poultry Food.
Claims use since Sept. 6, 1919.

Ser. No. 132,403. (CLASS 33. GLASSWARE.) ALBERT PICK & COMPANY, Chicago, Ill. Filed May 13, 1920.

NONIK

Particular description of goods.—Glass Tumblers.
Claims use since Mar. 1, 1913.

Ser. No. 132,501. (CLASS 12. CONSTRUCTION MATERIALS.) THE BERGER MANUFACTURING COMPANY, Canton, Ohio. Filed May 17, 1920.

BERLOY

Particular description of goods.—Metal Ceilings.
Claims use since Aug. 13, 1919.

Ser. No. 132,560. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed May 17, 1920.

ADMIRAL

Particular description of goods.—Suspenders.
Claims use since during the year 1900.

TRADE-MARK REGISTRATIONS GRANTED

JUNE 15, 1920.

132,076. TOILET LOTIONS. E. GAL, SOCIEDAD EN COMANDITA, Madrid, Spain.
Filed June 19, 1918. Serial No. 111,665. PUBLISHED MAY 6, 1919.

132,077. TOILET EXTRACTS. E. GAL, SOCIEDAD EN COMANDITA, Madrid, Spain.
Filed June 19, 1918. Serial No. 111,666. PUBLISHED MAY 6, 1919.

132,078. METAL HAND-BUCKETS. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y.
Filed October 28, 1919. Serial No. 124,246. PUBLISHED MARCH 23, 1920.

132,079. NON-ALCOHOLIC, NON-INTOXICATING, NON-CEREAL, MALT BEVERAGE, SOLD AS A SOFT DRINK. THE AMERICAN BREWING CO. OF PEKIN, Pekin, Ill.
Filed December 15, 1919. Serial No. 125,995. PUBLISHED MARCH 9, 1920.

132,080. COMPOSITION FOR USE AS STUCCO. AMERICAN MAGNESIA PRODUCTS CO., Chicago, Ill.
Filed December 18, 1919. Serial No. 126,204. PUBLISHED MARCH 16, 1920.

132,081. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER CO., Holyoke, Mass.
Filed June 21, 1918. Serial No. 111,715. PUBLISHED MARCH 23, 1920.

132,082. CERTAIN NAMED MACHINERY AND PARTS THEREOF. AMPLEX INCORPORATED, New York, N. Y.
Filed August 20, 1919. Serial No. 121,828. PUBLISHED MARCH 23, 1920.

132,083. COFFEE. J. ARON & COMPANY, INC., New Orleans, La.
Filed January 14, 1920. Serial No. 127,105. PUBLISHED MARCH 30, 1920.

132,084. COFFEE. J. ARON & COMPANY, INC., New Orleans, La.
Filed January 14, 1920. Serial No. 127,108. PUBLISHED MARCH 30, 1920.

132,085. TOILET SOAPS. THE ARMAND COMPANY, Des Moines, Iowa.
Filed July 19, 1919. Serial No. 120,688. PUBLISHED MARCH 23, 1920.

132,086. HOSIERY, SWEATERS, BATHING-SUITS, AND JERSEYS, CERTAIN NAMED KNITTED NOVELTIES, AND KNITTED AND FLAT UNDERWEAR. A. J. ARMSTRONG CO. INC., New York, N. Y.
Filed October 28, 1919. Serial No. 124,256. PUBLISHED MARCH 9, 1920.

132,087. RAZORS. LUDWIG BAER, New York, N. Y.
Filed January 31, 1920. Serial No. 127,794. PUBLISHED MARCH 16, 1920.

132,088. BEDSPREADS. B. F. BAILEY & CO., New York, N. Y.
Filed December 26, 1919. Serial No. 126,449. PUBLISHED MARCH 23, 1920.

132,089. CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. JOHN BARBEY, Reading, Pa.
Filed December 30, 1919. Serial No. 126,612. PUBLISHED MARCH 23, 1920.

132,090. NON-ALCOHOLIC, NON-CEREAL, MALTLESS, FRUITLESS, ANISE-FLAVORED CARBONATED BEVERAGES. STAMATIS BATTGIOS, Verona, Pa.
Filed December 4, 1919. Serial No. 125,564. PUBLISHED FEBRUARY 3, 1920.

132,091. PHONOGRAPHS, PHONOGRAPH-RECORDS, PHONOGRAPH SOUND-BOXES AND PHONOGRAPH-NEEDLES. THE BELCANTO CO., INC., New York, N. Y.
Filed May 17, 1919. Serial No. 118,585. PUBLISHED MARCH 23, 1920.

132,092. PHONOGRAPHS, PHONOGRAPH-RECORDS, PHONOGRAPH SOUND-BOXES, AND PHONOGRAPH-NEEDLES. THE BELCANTO CO., INC., New York, N. Y.
Filed May 17, 1919. Serial No. 118,586. PUBLISHED MARCH 23, 1920.

132,093. PREPARATION FOR CLEANING HANDS, FACE, FINGER-NAILS, FEATHERS, FURS, AND FABRICS. JOHN BELL, HILLS & LUCAS, LIMITED, London, England.
Filed August 9, 1919. Serial No. 121,438. PUBLISHED MARCH 23, 1920.

132,094. CANDY. J. S. BELL CONFECTIONERY COMPANY, Cambridge, Mass.
Filed February 12, 1920. Serial No. 128,292. PUBLISHED MARCH 30, 1920.

132,095. CERTAIN NAMED PILE FABRICS. BENNETT AND ASPDEN COMPANY, Philadelphia, Pa.
Filed November 21, 1919. Serial No. 125,147. PUBLISHED MARCH 23, 1920.

132,096. WORSTED CLOTH IN THE PIECE. BENSON BROTHERS, Philadelphia, Pa.
Filed May 12, 1919. Serial No. 118,365. PUBLISHED MARCH 2, 1920.

132,097. NON-ALCOHOLIC BEVERAGE AND SYRUP FOR FLAVORING SAID BEVERAGE, MADE FROM FRUIT-JUICES AND VEGETABLE FLAVORS. BETHANIA MINERAL SPRING COMPANY, Osceola, Wis.
Filed January 2, 1920. Serial No. 126,711. PUBLISHED MARCH 16, 1920.

132,098. MARINE GLUE OR LUTE. BITT-MO-LIN PRODUCTS CO., Seattle, Wash.
Filed October 14, 1918. Serial No. 113,819. PUBLISHED MARCH 23, 1920.

132,099. WINDOW-CLEANING COMPOSITION WHICH IS IN BRICK FORM. EDWARD W. BOND, Portland, Oreg.
Filed October 27, 1919. Serial No. 124,198. PUBLISHED MARCH 16, 1920.

132,100. READY-MIXED PAINTS AND VARNISHES. BUFFALO HOUSE WRECKING & SALVAGE CO., Buffalo, N. Y.
Filed September 6, 1917. Serial No. 106,087. PUBLISHED MARCH 23, 1920.

132,101. CERTAIN NAMED BLANKETS AND BED-COMFORTS. BURNHAM-MUNGER-ROOT DRY GOODS CO., Kansas City, Mo.
Filed October 20, 1919. Serial No. 123,953. PUBLISHED MARCH 2, 1920.

132,102. CANNED FRUITS—NAMELY, CANNED APRICOTS. CALIMA CANNING CO., Los Angeles, Calif.
Filed January 6, 1920. Serial No. 126,846. PUBLISHED MARCH 30, 1920.

132,103. FLORAL RIBBON IN THE PIECE, ADAPTED TO BE MADE INTO TIES OR BOWS. JULIUS ELDRED CANNADAY, Sedalia, Mo.
Filed May 16, 1918. Serial No. 110,918. PUBLISHED MARCH 2, 1920.

132,104. WOMEN'S CAPS. MARY D. CANNON, Montclair and Bloomfield, N. J.
Filed October 16, 1919. Serial No. 123,842. PUBLISHED MARCH 9, 1920.

132,105. NON-INTOXICATING, NON-ALCOHOLIC MALTLESS FRUIT SYRUP CONTAINING NO CEREALS, SOLD AS A SOFT DRINK. CELRO-KOLA CO., Portland, Oreg.
Filed March 13, 1919. Serial No. 116,528. PUBLISHED MARCH 23, 1920.

132,106. MAILING-ENVELOPS. THE CENTRAL OHIO PAPER CO., Columbus, Ohio.
Filed October 13, 1919. Serial No. 123,729. PUBLISHED MARCH 2, 1920.

132,107. CERTAIN NAMED PAPER AND STATIONERY. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed October 27, 1919. Serial No. 124,201. PUBLISHED MARCH 2, 1920.

132,108. CERTAIN NAMED PAPER AND STATIONERY. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed October 27, 1919. Serial No. 124,203. PUBLISHED MARCH 2, 1920.

132,109. IRON AND STEEL CASTINGS AND FORGINGS. CHAIN BELT COMPANY, Milwaukee, Wis.
Filed January 24, 1920. Serial No. 127,539. PUBLISHED MARCH 16, 1920.

132,110. SOLDER USED IN CONNECTION WITH SOLDERING OF ALUMINUM, ZINC, GRANITE, TIN, IRON, BRASS, AND STEEL. EUGENE CHARLAND, Montreal, Canada.
Filed November 6, 1919. Serial No. 124,590. PUBLISHED MARCH 2, 1920.

132,111. FABRICS OF SILK AND SILK MIXTURES IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed May 17, 1919. Serial No. 118,591. PUBLISHED MARCH 23, 1920.

132,112. FABRICS OF SILK AND SILK MIXTURES IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed September 25, 1919. Serial No. 123,109. PUBLISHED MARCH 2, 1920.

132,113. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed December 2, 1919. Serial No. 125,493. PUBLISHED MARCH 23, 1920.

132,114. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 30, 1919. Serial No. 126,618. PUBLISHED MARCH 16, 1920.

132,115. NON-ALCOHOLIC MALTLESS BEVERAGE, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. THE CINCINNATI BEVERAGE AND PRODUCTS CO., Cincinnati, Ohio.
Filed September 22, 1919. Serial No. 122,970. PUBLISHED MARCH 23, 1920.

132,116. HEADWEAR NAMELY, HATS AND CAPS FOR MEN AND BOYS. CITY CAP CO., St. Louis, Mo.
Filed October 4, 1919. Serial No. 123,421. PUBLISHED MARCH 16, 1920.

132,117. LUBRICATING-OILS, ILLUMINATING-OILS, GASOLENE, NAPHTHA, BENZIN, AND PARAFFIN-WAX. CLARENDON REFINING COMPANY, Clarendon borough, Pa.
Filed November 13, 1918. Serial No. 114,150. PUBLISHED MARCH 23, 1920.

132,118. COTTON AND SILK PIECE GOODS. COMMERCIAL SHIRT COMPANY, New York, N. Y.
Filed December 19, 1917. Serial No. 138,053. PUBLISHED JUNE 10, 1919.

132,119. COMPOUNDS OR POWDERS USED FOR CLEANING AND FINISHING PAINTED, POLISHED, AND STONE SURFACES. RICHARD T. CONLON, New York, N. Y.
Filed August 27, 1919. Serial No. 122,043. PUBLISHED MARCH 16, 1920.

132,120. FUEL-OILS. JAMES J. COWLEY, Passaic, N. J.
Filed October 20, 1919. Serial No. 123,969. PUBLISHED MARCH 16, 1920.

132,121. BOOTS AND SHOES OF LEATHER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. J. & T. COUSINS CO., Brooklyn, N. Y.
Filed December 30, 1919. Serial No. 126,613. PUBLISHED MARCH 16, 1920.

132,122. GARDEN-SEED. CRABBS REYNOLDS TAYLOR CO., INCORPORATED, Crawfordsville, Ind.
Filed July 22, 1919. Serial No. 120,789. PUBLISHED DECEMBER 2, 1919.

132,123. MILK, BUTTERMILK, AND CREAM. DALTEX MILK PRODUCTS COMPANY, Dallas, Tex.
Filed January 31, 1920. Serial No. 127,801. PUBLISHED MARCH 30, 1920.

132,124. BATHTUBS, LAVATORIES, WATER-CLOSETS, FLUSH-TANKS, URINALS, SITZ-BATHS, AND SHOWER-RECEIPTORS. DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del.
Filed October 20, 1919. Serial No. 124,083. PUBLISHED MARCH 2, 1920.

132,125. SODA-WATER AND NON-ALCOHOLIC, MALTLESS, CEREAL SYRUPS USED IN THE MAKING OF SOFT DRINKS. EARL H. DESSAFER, Omaha, Nebr.
Filed April 21, 1919. Serial No. 117,648. PUBLISHED MARCH 23, 1920.

132,126. PITCH FOR USE IN BREWERIES. DEUTSCHE CONSERVIERUNGESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Marienfelde, near Berlin, Germany.
Filed September 15, 1919. Serial No. 122,620. PUBLISHED MARCH 16, 1920.

132,127. NON-INTOXICATING, NON-CEREAL, MALTLESS BEVERAGE, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. H. T. DEWEY & SONS CO., New York, N. Y.
Filed December 19, 1919. Serial No. 126,246. PUBLISHED MARCH 23, 1920.

132,128. SILK PIECE GOODS. WILLIAM THOMSON DICKSON, Glasgow, Scotland.
Filed December 17, 1919. Serial No. 126,175. PUBLISHED MARCH 23, 1920.

132,129. CONCENTRATED NATURAL MINERAL-WELL WATER. ED. E. DISMUKE, Mineral Wells, Tex.
Filed October 4, 1919. Serial No. 123,433. PUBLISHED MARCH 16, 1920.

132,130. BELT-DRESSING. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed June 30, 1919. Serial No. 120,029. PUBLISHED MARCH 23, 1920.

132,131. ELECTRIC MOTORS, MOTOR FRAMES AND PARTS. THE DOMESTIC ELECTRIC COMPANY, Cleveland, Ohio.
Filed November 8, 1917. Serial No. 107,227. PUBLISHED DECEMBER 2, 1919.

132,132. CERTAIN NAMED SEEDS AND NURSERY-STOCK. DULUTH FLORAL COMPANY, Duluth, Minn.
Filed October 27, 1919. Serial No. 124,205. PUBLISHED MARCH 16, 1920.

132,133. FRUIT PRESERVES, TABLE SYRUP, ORANGE PEEL. EATSUM PRODUCTS CORPORATION, Orlando, Fla.
Filed May 4, 1920. Serial No. 132,010.

132,134. MANUALLY AND MECHANICALLY OPERATED IMPULSE-STARTERS. EISEMANN MAGNETO CORPORATION, Brooklyn, N. Y.
Filed October 30, 1919. Serial No. 124,335. PUBLISHED MARCH 23, 1920.

132,135. POWDERED SOAP. ELGIN NATIONAL SOAP COMPANY, Elgin, Ill.
Filed November 8, 1918. Serial No. 114,094. PUBLISHED JANUARY 14, 1919.

132,136. MEN'S DRESS AND NEGLIGÉE SHIRTS. EMERSON SHIRT CO., INC., New York, N. Y.
Filed October 25, 1919. Serial No. 124,172. PUBLISHED MARCH 9, 1920.

132,137. LEDGER-PAPER. EMPIRE PAPER COMPANY, Chicago, Ill.
Filed June 23, 1919. Serial No. 119,852. PUBLISHED MARCH 23, 1920.

132,138. RUBBER HEELS. THOMAS M. EVANS, East Providence, R. I.
Filed October 28, 1919. Serial No. 124,264. PUBLISHED MARCH 9, 1920.

132,139. METALLIC DEOXIDIZERS AND METALLIC SCAVENGERS FOR USE IN CASTING METALS. FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed November 17, 1919. Serial No. 124,981. PUBLISHED MARCH 16, 1920.

132,140. NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. EMILIO DELLE FAVE, Syracuse, N. Y.
Filed August 16, 1917. Serial No. 105,684. PUBLISHED OCTOBER 29, 1918.

132,141. SNAP-FASTENERS AND PLACKET-FASTENERS. FEDERAL SNAP FASTENER CORPORATION, New York, N. Y.
Filed January 31, 1920. Serial No. 127,803. PUBLISHED MARCH 16, 1920.

132,142. RUBBER OR COMPOSITION SOLES, HEELS, AND TAPS. FIBRE PRODUCTS CO., Boston, Mass.
Filed October 28, 1919. Serial No. 124,265. PUBLISHED MARCH 9, 1920.

132,143. HOSIERY. FINERY HOSIERY CORPORATION, New York, N. Y.
Filed October 15, 1919. Serial No. 123,799. PUBLISHED MARCH 9, 1920.

132,144. BUTTER-SERVING MACHINES. FOOD APPLIANCES MANUFACTURING CORPORATION, Rochester, N. Y.
Filed January 7, 1920. Serial No. 126,899. PUBLISHED MARCH 16, 1920.

132,145. SYRUP USED FOR MAKING NON-ALCOHOLIC NON-INTOXICATING MALTLESS NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS. CHARLES AUSTIN FOWLER, Chicago, Ill.
Filed January 27, 1920. Serial No. 127,639. PUBLISHED MARCH 23, 1920.

132,146. LACES IN THE PIECE. GARFIELD-STAHL COMPANY, New York, N. Y.
Filed November 20, 1919. Serial No. 125,110. PUBLISHED MARCH 23, 1920.

132,147. SANITARY BABY-PANTS. MAUDE SINCLAIR GEORGE, St. Louis, Mo.
Filed June 7, 1919. Serial No. 119,301. PUBLISHED DECEMBER 2, 1919.

132,148. WRITING-PAPER. GILBERT PAPER COMPANY, Menasha, Wis.
Filed September 26, 1919. Serial No. 123,159. PUBLISHED MARCH 2, 1920.

132,149. CERTAIN NAMED GLASSWARE. GILL BROTHERS COMPANY, Steubenville, Ohio.
Filed June 30, 1919. Serial No. 120,108. PUBLISHED FEBRUARY 10, 1920.

132,150. SAFETY-RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed November 13, 1919. Serial No. 124,855. PUBLISHED MARCH 2, 1920.

132,151. SAFETY-RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed November 13, 1919. Serial No. 124,857. PUBLISHED MARCH 2, 1920.

132,152. SAFETY-RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed November 13, 1919. Serial No. 124,858. PUBLISHED MARCH 2, 1920.

132,153. ROOT-BEER EXTRACT, ORANGE-PHOSPHATE, WILD-CHERRY PHOSPHATE, AND GRAPE-PHOSPHATE. GLOBE GROCERY STORES, INC., New York, N. Y.
Filed December 11, 1919. Serial No. 125,841. PUBLISHED MARCH 16, 1920.

132,154. MACHINE-OIL. GLOBE GROCERY STORES, INC., New York, N. Y.
Filed December 11, 1919. Serial No. 125,842. PUBLISHED MARCH 2, 1920.

132,155. BABIES' WASHABLE KID-LEATHER SHOES. GLOVERSVILLE WELT CO., Gloversville, N. Y.
Filed November 18, 1919. Serial No. 125,051. PUBLISHED MARCH 9, 1920.

132,156. DRY CLEANER FOR CLOTHES. ALLEN G. GORDEN, Blytheville, Ark.
Filed October 30, 1919. Serial No. 124,344. PUBLISHED FEBRUARY 3, 1920.

132,157. WATCHES. THE D. GRUEN SONS AND COMPANY, Cincinnati, Ohio.
Filed November 11, 1919. Serial No. 124,752. PUBLISHED MARCH 23, 1920.

132,158. PIECE GOODS COMPOSED OF SILK. HAAS BROTHERS FABRICS' CORPORATION, New York, N. Y.
Filed November 22, 1919. Serial No. 125,181. PUBLISHED MARCH 23, 1920.

132,159. SHELLED AND UNSHELLED NUTS IN THEIR NATURAL STATE AND DRIED FRUITS. HABICHT AND COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,931. PUBLISHED MARCH 30, 1920.

132,160. SHELLED AND UNSHELLED NUTS IN THEIR NATURAL STATE AND DRIED FRUITS. HABICHT AND COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,934. PUBLISHED MARCH 30, 1920.

132,161. CHILDREN'S MUSLIN GOWNS. JACOB K. HAMMERMAN, Chicago, Ill.
Filed June 24, 1919. Serial No. 119,889. PUBLISHED MARCH 30, 1920.

132,162. LEAD-PENCILS, WRITING-PENS, AND RUBBER ERASERS. N. V. HANDELSVEREENIGING GEBRS. RIKKERS, Amsterdam, Netherlands.
Filed August 15, 1918. Serial No. 112,730. PUBLISHED MARCH 23, 1920.

132,163. COTTON PIECE GOODS—VIZ., SUITINGS. FRANCIS CONDIE HARBER, Plainfield, N. J.
Filed September 6, 1919. Serial No. 122,399. PUBLISHED MARCH 2, 1920.

132,164. WHITE LEAD IN OIL, ZINC IN OIL, DRY RED LEAD, AND COLORS IN OIL. L. H. C. HART, St. Louis, Mo.
Filed December 12, 1919. Serial No. 125,888. PUBLISHED MARCH 23, 1920.

132,165. GREASE FOR STOPCOCKS AND THE LIKE. WALTER H. HART, Philadelphia, Pa.
Filed November 5, 1919. Serial No. 124,570. PUBLISHED MARCH 23, 1920.

132,166. COTTON PIECE GOODS. OTTO H. HINCK, New York, N. Y.
Filed December 13, 1918. Serial No. 114,613. PUBLISHED MARCH 2, 1920.

132,167. COTTON PIECE GOODS. OTTO H. HINCK, New York, N. Y.
Filed December 13, 1918. Serial No. 114,615. PUBLISHED MARCH 23, 1920.

132,168. COTTON PIECE GOODS. OTTO H. HINCK, New York, N. Y.
Filed December 13, 1918. Serial No. 114,616. PUBLISHED MARCH 2, 1920.

132,169. COTTON PIECE GOODS. OTTO H. HINCK, New York, N. Y.
Filed December 13, 1918. Serial No. 114,620. PUBLISHED MARCH 2, 1920.

132,170. ELECTRIC SUCTION-SWEEPERS. THE HOOVER SUCTION SWEEPER COMPANY, North Canton, Ohio.
Filed October 17, 1919. Serial No. 123,892. PUBLISHED MARCH 23, 1920.

132,171. OIL RUST-PREVENTIVE. E. F. HOUGHTON & Co., Philadelphia, Pa.
Filed January 2, 1920. Serial No. 126,728. PUBLISHED MARCH 16, 1920.

132,172. SOAP. HOWARD BROS. CHEMICAL CO., Buffalo, N. Y.
Filed December 1, 1919. Serial No. 125,462. PUBLISHED MARCH 16, 1920.

132,173. WRITING-PAPER AND ENVELOPS. GEORGE B. HURD & Co., New York, N. Y.
Filed April 10, 1916. Serial No. 94,285. PUBLISHED AUGUST 20, 1918.

132,174. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. THE HYGEIA BEVERAGE CO., Natick, Mass.
Filed January 28, 1920. Serial No. 127,691. PUBLISHED MARCH 16, 1920.

132,175. PORTABLE FLASH-LIGHTS AND PORTABLE-FLASH-LIGHT CASES. HENRY HYMAN & CO. INC., New York, N. Y.
Filed January 13, 1919. Serial No. 115,148. PUBLISHED MARCH 23, 1920.

132,176. CONCENTRATED TEA SYRUP FOR MAKING TEA. I. C. T. PRODUCTS CO., Indianapolis, Ind., assignor to I. C. T. Products Co., Indianapolis, Ind., a Corporation.
Filed July 2, 1919. Serial No. 120,213. PUBLISHED MARCH 23, 1920.

132,177. PORTLAND CEMENT. INDIANA PORTLAND CEMENT COMPANY, Indianapolis, Ind.
Filed November 22, 1919. Serial No. 125,271. PUBLISHED MARCH 16, 1920.

132,178. COMPOSITION FLOOR-TILES, LINOLEUM, CORK CARPET, AND FLOOR-COVERINGS COMPOSED MAINLY OF CORK. INTERNATIONAL CORK COMPANY, Brooklyn, N. Y.
Filed December 16, 1919. Serial No. 126,126. PUBLISHED MARCH 9, 1920.

132,179. WHEAT-FLOUR. INTERNATIONAL MILLING COMPANY, New Prague, Minn.
Filed December 27, 1919. Serial No. 126,520. PUBLISHED MARCH 30, 1920.

132,180. APRONS, HOUSE-DRESSES, PETTICOATS, AND CHILDREN'S GARMENTS — NAMELY, CREEPERS, ROMPERS, APRONS, AND DRESSES. THE IOWA SKIRT MANUFACTURING COMPANY, Waterloo, Iowa.
Filed December 8, 1919. Serial No. 125,701. PUBLISHED MARCH 16, 1920.

132,181. RIBBONS IN THE PIECE. JOHNSON, COWDIN AND CO., INC., New York, N. Y.
Filed October 23, 1919. Serial No. 124,113. PUBLISHED MARCH 2, 1920.

132,182. TOILET-PAPER. THE GEORGE T. JOHNSON Co., Boston, Mass.
Filed January 2, 1918. Serial No. 108,251. PUBLISHED MARCH 23, 1920.

132,183. MEN'S HOSIERY. THE KENNESAW HOSIERY COMPANY, Marietta, Ga.
Filed October 15, 1918. Serial No. 113,747. PUBLISHED MARCH 23, 1920.

132,184. LADIES' HATS. KURZ BROS. INC., New York, N. Y.
Filed September 4, 1919. Serial No. 122,305. PUBLISHED MARCH 23, 1920.

132,185. CONCENTRATED WRITING-INK. LA PIERRE MANUFACTURING CO., Newark, N. J.
Filed October 28, 1919. Serial No. 124,286. PUBLISHED MARCH 23, 1920.

132,186. COOKING AND KITCHEN UTENSILS OF ALUMINUM, COMPRISING PANS, POTS, BOILERS, AND KETTLES OF ALL KINDS. LANDERS, FRARY & CLARK, New Britain, Conn.
Filed November 25, 1919. Serial No. 125,289. PUBLISHED MARCH 2, 1920.

132,187. OVERALLS AND PANTS. THE LARGE & ROOMY OVERALL MFG CO., Cincinnati, Ohio.
Filed January 9, 1920. Serial No. 126,966. PUBLISHED MARCH 23, 1920.

132,188. ELECTRICALLY-OPERATED CLOTH-CUTTERS AND ELECTRICALLY-OPERATED CLOTH-CUTTING MACHINES. FREDERICK M. LASERSON, New York, N. Y.
Filed June 30, 1919. Serial No. 120,113. PUBLISHED MARCH 16, 1920.

132,189. LATHES. THE R. K. LE BLOND MACHINE TOOL COMPANY, Cincinnati, Ohio.
Filed December 5, 1919. Serial No. 125,619. PUBLISHED MARCH 2, 1920.

132,190. SILKS IN THE PIECE. LINDEKE, WARNER & SONS, INCORPORATED, St. Paul, Minn.
Filed October 25, 1919. Serial No. 124,182. PUBLISHED MARCH 2, 1920.

132,191. CORE-OILS. LOOS & DILWORTH, Philadelphia, Pa.
Filed October 31, 1919. Serial No. 124,464. PUBLISHED MARCH 16, 1920.

132,192. CAKES, CRACKERS, AND BISCUITS. LOOSE-WILES BISCUIT COMPANY, New York, N. Y.
Filed August 3, 1918. Serial No. 112,496. PUBLISHED AUGUST 5, 1919.

132,193. CAKES, WAFERS, AND CRACKERS OR BISCUITS. LOOSE-WILES BISCUIT COMPANY, New York, N. Y.
Filed November 11, 1918. Serial No. 114,133. PUBLISHED AUGUST 5, 1919.

132,194. SYNTHETIC PEARLS. LORD & TAYLOR, New York, N. Y.
Filed January 10, 1920. Serial No. 127,004. PUBLISHED MARCH 16, 1920.

132,195. CERTAIN NAMED ARTICLES OF STATIONERY. MACHINE APPLIANCE CORPORATION, Brooklyn, N. Y.
Filed July 21, 1919. Serial No. 120,763. PUBLISHED MARCH 2, 1920.

132,196. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME, SOLD AS A SOFT DRINK. FRANK A. MADDAS, Jeannette, Pa.
Filed June 14, 1919. Serial No. 119,610. PUBLISHED SEPTEMBER 16, 1919.

132,197. SPARK-PLUGS. THE MARMON CHICAGO COMPANY, Chicago, Ill., assignor to The Arc-O'-Manufacturing Co., Inc., Chicago, Ill., a Corporation of Illinois.
Filed May 3, 1919. Serial No. 118,116. PUBLISHED DECEMBER 2, 1919.

132,198. SELF-RISING WHEAT-FLOUR. THE MENNEL MILLING COMPANY, Toledo, Ohio.
Filed January 20, 1920. Serial No. 127,383. PUBLISHED MARCH 30, 1920.

132,199. LUBRICATING-PASTE. MERRILL-HAMILTON COMPANY, Kansas City, Mo.
Filed December 4, 1919. Serial No. 125,574. PUBLISHED MARCH 16, 1920.

132,200. PIECE GOODS—VIZ., SILK PIECE GOODS. JOHN H. MEYER SILK MILLS CO., Northampton borough, Pa., and New York, N. Y.
Filed December 17, 1919. Serial No. 126,190. PUBLISHED MARCH 23, 1920.

132,201. PIECE GOODS—VIZ., SILK PIECE GOODS. JOHN H. MEYER SILK MILLS CO., Northampton borough, Pa., and New York, N. Y.
Filed December 17, 1919. Serial No. 126,192. PUBLISHED MARCH 23, 1920.

132,202. CLOTHING—NAMELY, OVERALLS AND JACKETS FOR MEN, YOUTHS, AND CHILDREN. MICHIGAN MOTOR GARMENT CO., Greenville, Mich.
Filed December 15, 1919. Serial No. 126,044. PUBLISHED MARCH 23, 1920.

132,203. TIRE-FILLING COMPOUND. THE MIDDLETOWN ACCESSORY-LABORATORIES COMPANY, Middletown, Ohio.
Filed June 15, 1918. Serial No. 111,596. PUBLISHED MARCH 23, 1920.

132,204. PARASOLS AND UMBRELLAS. J. A. MIGEL, INC., New York, N. Y.
Filed February 13, 1920. Serial No. 128,359. PUBLISHED MARCH 23, 1920.

132,205. COTTON PIECE GOODS. DANIEL MILLER COMPANY, Baltimore, Md.
Filed December 23, 1919. Serial No. 126,386. PUBLISHED MARCH 23, 1920.

132,206. RUBBER SPONGES. THE MILLER RUBBER Co., Akron, Ohio.
Filed December 4, 1919. Serial No. 125,576. PUBLISHED MARCH 16, 1920.

132,207. VARNISH COMPOSITION. MINWAX COMPANY, INC., New York, N. Y.
Filed November 17, 1919. Serial No. 125,007. PUBLISHED MARCH 23, 1920.

132,208. NON-ALCOHOLIC, NON-INTOXICATING, MALTLESS, NON-CEREAL FRUIT BEVERAGE, SOLD AS A SOFT DRINK. MIRACLE COMPANY, Chicago, Ill.
Filed January 6, 1920. Serial No. 126,867. PUBLISHED MARCH 23, 1920.

132,209. COMPOSITION RUBBING-STONE, USED IN PLACE OF SANDPAPER, FOR SCOURING KITCHEN UTENSILS. EMIL MUELLER, Springfield, Ohio.
Filed August 11, 1919. Serial No. 121,519. PUBLISHED MARCH 23, 1920.

132,210. WOOLEN DRESS PIECE GOODS AND FANCY COTTON PIECE GOODS. NACOMA TEXTILE Co., New York, N. Y.
Filed November 26, 1919. Serial No. 125,336. PUBLISHED MARCH 2, 1920.

132,211. SAWS AND SAW-FRAMES AND METAL-CUTTING BAND-SAW MACHINES. NAPIER SAW WORKS, INC., Springfield, Mass.
Filed January 30, 1920. Serial No. 127,767. PUBLISHED MARCH 16, 1920.

132,212. SPARK-PLUGS. NATIONAL SPARK PLUG COMPANY, Rockford, Ill.
Filed October 6, 1919. Serial No. 123,492. PUBLISHED MARCH 23, 1920.

132,213. WATCH-MOVEMENTS. NATIONAL WATCH COMPANY, INC., New York, N. Y.
Filed January 13, 1919. Serial No. 115,156. PUBLISHED MARCH 23, 1920.

132,214. BOND-PAPER FOR WRITING, PRINTING, AND LEDGER PURPOSES. NEENAH PAPER CO., Neenah, Wis.
Filed August 9, 1919. Serial No. 121,484. PUBLISHED MARCH 16, 1920.

132,215. CANNED FRUITS AND CANNED TOMATOES. OLAF A. NELSON, San Francisco, Calif.
Filed January 20, 1920. Serial No. 127,389. PUBLISHED MARCH 30, 1920.

132,216. LADIES' FLAT UNDERWEAR. FRED NEWMARK, New York, N. Y.
Filed July 31, 1919. Serial No. 121,154. PUBLISHED MARCH 23, 1920.

132,217. WOMEN'S, MISSES', AND CHILDREN'S BLOUSES AND SUITS. NICKELS MANUFACTURING COMPANY, Bristol, Va.
Filed September 30, 1919. Serial No. 123,289. PUBLISHED MARCH 9, 1920.

132,218. HOSIERY. NOMEND HOSIERY MILLS M. B. LAUBACH CO. INC., Philadelphia, Pa.
Filed September 12, 1919. Serial No. 122,606. PUBLISHED MARCH 23, 1920.

132,219. NON-ALCOHOLIC PREPARATION OF CORN-SYRUP AND INVERTED SUGAR USED AS A SWEETENING-SYRUP FOR BEVERAGES. THE NULOMOLINE COMPANY, New York, N. Y.
Filed September 4, 1919. Serial No. 122,369. PUBLISHED MARCH 23, 1920.

132,220. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND WATCH-DIALS. I. OLLENDORFF COMPANY, New York, N. Y.
Filed November 25, 1919. Serial No. 125,360. PUBLISHED MARCH 23, 1920.

132,221. CHEWING-GUM. O-PEE-CHEE GUM CO., LIMITED, London, Ontario, Canada.
Filed September 19, 1919. Serial No. 122,907. PUBLISHED MARCH 30, 1920.

132,222. PEARL BUTTONS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed January 6, 1920. Serial No. 126,875. PUBLISHED MARCH 16, 1920.

132,223. SHOE-LACES. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed January 7, 1920. Serial No. 126,904. PUBLISHED MARCH 16, 1920.

132,224. GARTERS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed January 7, 1920. Serial No. 126,905. PUBLISHED MARCH 16, 1920.

132,225. COTTON PIECE GOODS. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed December 1, 1919. Serial No. 125,472. PUBLISHED MARCH 23, 1920.

132,226. PLUSH PIECE GOODS. PHILADELPHIA PILE FABRIC MILLS, Philadelphia, Pa.
Filed October 15, 1919. Serial No. 123,823. PUBLISHED MARCH 2, 1920.

132,227. CERTAIN NAMED OUTER GARMENTS FOR YOUNG MEN AND BOYS. J. J. PREIS & COMPANY, New York, N. Y.
Filed September 23, 1919. Serial No. 123,038. PUBLISHED MARCH 9, 1920.

132,228. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed April 10, 1919. Serial No. 117,353. PUBLISHED MARCH 23, 1920.

132,229. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed June 20, 1919. Serial No. 119,812. PUBLISHED MARCH 30, 1920.

132,230. WOMEN'S AND CHILDREN'S HOSIERY. LEO PROPPER, New York, N. Y.
Filed July 12, 1919. Serial No. 120,496. PUBLISHED MARCH 23, 1920.

132,231. SILK PIECE GOODS. PURITAN SILKS CORPORATION, Chicago, Ill.
Filed November 28, 1919. Serial No. 125,402. PUBLISHED MARCH 23, 1920.

132,232. GINGER-ALE. PURITY CROSS, INC., West Orange, N. J.
Filed September 13, 1919. Serial No. 122,655. PUBLISHED MARCH 23, 1920.

132,233. OVERALLS, JACKETS, JUMPERS, AND WORK-CLOTHES. ED. B. ROEMER, Zanesville, Ohio.
Filed October 16, 1919. Serial No. 123,864. PUBLISHED MARCH 9, 1920.

132,234. PHONOGRAPHS, PHONOGRAPH-RECORDS, PHONOGRAPH SOUND-BOXES, AND PHONOGRAPH-NEEDLES. Louis Rommel, New York, N. Y.
Filed January 4, 1919. Serial No. 114,993. PUBLISHED MARCH 23, 1920.

132,235. GATES CONSTRUCTED WHOLLY OR PARTIALLY OF WOOD. Rowe Manufacturing Co., Galesburg, Ill.
Filed December 27, 1918. Serial No. 114,839. PUBLISHED MARCH 16, 1920.

132,236. CARPETS. Roxbury Carpet Company, Boston, Mass.
Filed December 5, 1919. Serial No. 125,629. PUBLISHED MARCH 2, 1920.

132,237. DRYING LIQUID COMPOSITION IN THE NATURE OF LACQUER OR PAINT. Rust-Knot Mfg. Co., Toledo, Ohio.
Filed October 20, 1919. Serial No. 123,985. PUBLISHED MARCH 23, 1920.

132,238. TUB-BUTTER. Samuel Saler, Philadelphia, Pa.
Filed October 23, 1919. Serial No. 124,124. PUBLISHED MARCH 30, 1920.

132,239. PILE FABRICS IN THE PIECE, COTTON PIECE GOODS, LINENS, AND SILK PIECE GOODS. Saltzman & Berman, New York, N. Y.
Filed December 31, 1919. Serial No. 126,700. PUBLISHED MARCH 23, 1920.

132,240. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. Scintilla, Solothurn, Switzerland.
Filed November 14, 1917. Serial No. 107,376. PUBLISHED MARCH 16, 1920.

132,241. CERTAIN NAMED ELECTRICAL APPARATUS. Seidler-Miner Company, Detroit, Mich.
Filed June 18, 1919. Serial No. 119,749. PUBLISHED MARCH 16, 1920.

132,242. INKSTANDS AND INKWELLS. Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis.
Filed November 20, 1919. Serial No. 125,129. PUBLISHED MARCH 2, 1920.

132,243. SOAP. Alex. D. Shaw & Co., New York, N. Y.
Filed July 19, 1919. Serial No. 120,725. PUBLISHED MARCH 23, 1920.

132,244. PILE FABRICS IN THE PIECE. Sidney Blumenthal & Co., Inc., New York, N. Y.
Filed December 24, 1919. Serial No. 126,408. PUBLISHED MARCH 23, 1920.

132,245. SAWS. Simonds Manufacturing Company, Fitchburg, Mass.
Filed January 20, 1920. Serial No. 127,403. PUBLISHED MARCH 23, 1920.

132,246. CERTAIN NAMED CUTLERY AND MACHINERY. Simmons Hardware Company, St. Louis, Mo.
Filed November 26, 1919. Serial No. 125,349. PUBLISHED MARCH 23, 1920.

132,247. COTTON PIECE GOODS, COTTON DRESS GOODS, COTTON AND SILK, AND COTTON AND WORSTED DRESS GOODS. Wm. Simpson, Sons & Co., Philadelphia, Pa.
Filed November 22, 1917. Serial No. 107,537. PUBLISHED JANUARY 22, 1918.

132,248. REFINED, SEMI-REFINED, AND UNREFINED OILS MADE FROM PETROLEUM. Sinclair Refining Company, Chicago, Ill.
Filed December 10, 1919. Serial No. 125,807. PUBLISHED MARCH 23, 1920.

132,249. WRITING-PAPER AND MAILING-ENVELOPS. Skillkrafters, Incorporated, Dover, Del., and Philadelphia, Pa.
Filed June 7, 1919. Serial No. 119,317. PUBLISHED MARCH 2, 1920.

132,250. NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. Standard Bottling and Extract Co., Boston, Mass.
Filed December 1, 1919. Serial No. 125,474. PUBLISHED MARCH 23, 1920.

132,251. FINISHED SKINS. Standard Kid Mfg. Co., Boston, Mass.
Filed September 5, 1919. Serial No. 122,368. PUBLISHED MARCH 16, 1920.

132,252. KEROSENE, GASOLENE, NAPHTHA, LUBRICATING OILS AND GREASES. Standard Oil Company of New York, New York, N. Y.
Filed December 18, 1919. Serial No. 126,236. PUBLISHED MARCH 23, 1920.

132,253. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Standard Varnish Works, New York, N. Y.
Filed December 11, 1919. Serial No. 125,865. PUBLISHED MARCH 16, 1920.

132,254. DRESSING IN THE NATURE OF A SALAD-DRESSING. Morris Steinberg, New York, N. Y.
Filed November 28, 1919. Serial No. 125,409. PUBLISHED MARCH 30, 1920.

132,225. RINGS AND RING MOUNTINGS. Stern Brothers & Co., New York, N. Y., assignor to Goldsmith, Stern & Co., New York, N. Y., a Firm composed of August Goldsmith, Mortimer C. Foster, Nathan B. Stern, and Arthur Simons.
Filed June 6, 1905. Serial No. 7,545. PUBLISHED JANUARY 29, 1907.

132,256. BEAD NECK-CHAINS, BRACELETS, AND CROSSES. Stern Brothers & Company, New York, N. Y., assignor to Goldsmith, Stern & Co., New York, N. Y., a Firm composed of August Goldsmith, Mortimer C. Foster, Nathan B. Stern, and Arthur Simons.
Filed November 29, 1905. Serial No. 15,083. PUBLISHED JANUARY 29, 1907.

132,257. HATPINS, SCARF-PINS, AND BABY-PINS MADE PARTLY OR WHOLLY OF PRECIOUS METAL OR HAVING JEWELS. Stern Brothers & Company, New York, N. Y., assignor to Goldsmith, Stern & Co., New York, N. Y., a Firm composed of August Goldsmith, Mortimer C. Foster, Nathan B. Stern, and Arthur Simons.
Filed November 29, 1905. Serial No. 15,084. PUBLISHED JANUARY 29, 1907.

132,258. LOCKETS, FOBS, PENDANTS, AND EARRINGS. Stern Brothers & Company, New York, N. Y., assignor to Goldsmith, Stern & Co., New York, N. Y., a Firm composed of August Goldsmith, Mortimer C. Foster, Nathan B. Stern, and Arthur Simons.
Filed November 29, 1905. Serial No. 15,085. PUBLISHED JANUARY 29, 1907.

132,259. CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. Sunnyhome Electric Company, Detroit, Mich.
Filed November 8, 1919. Serial No. 124,691. PUBLISHED MARCH 23, 1920.

132,260. JAMS, MARMALADES, AND JELLIES. Mary D. Taylor, Largo, Fla.
Filed December 10, 1918. Serial No. 114,591. PUBLISHED MARCH 30, 1920.

132,261. BOOTS AND SHOES MADE OF LEATHER, RUBBER, AND CANVAS. Thompson Shoe Company, St. Paul, Minn.
Filed January 8, 1917. Serial No. 100,457. PUBLISHED MARCH 23, 1920.

132,262. WATCHES AND CLOCKS. Tiffany & Company, New York, N. Y.
Filed January 9, 1920. Serial No. 126,976. PUBLISHED MARCH 23, 1920.

132,263. OIL FOR SANCTUARY-LAMPS AND CANDLES. Bernard Muller-Thym, Kansas City, Mo.
Filed January 16, 1919. Serial No. 115,224. PUBLISHED JUNE 24, 1919.

132,264. FUEL-OILS. The Toledo Fuel Company, Toledo, Ohio.
Filed September 19, 1919. Serial No. 122,921. PUBLISHED MARCH 23, 1920.

132,265. GASOLENE. Joseph W. Trotter, Birmingham, Ala.
Filed October 9, 1919. Serial No. 123,591. PUBLISHED MARCH 16, 1920.

132,266. CORSET-COVERS, ENVELOP-CHEMISES, NIGHTGOWNS, PETTICOATS, AND BLOOMERS. Elm Undergarment Co., New York, N. Y.
Filed July 1, 1919. Serial No. 120,161. PUBLISHED MARCH 23, 1920.

132,267. COMPOUND FOR USE IN REMOVING PAINT, VARNISH, AND ENAMEL FROM SURFACES. Universal Paint Remover and Motor Cleaning Company, Dallas, Tex.
Filed December 8, 1919. Serial No. 125,732. PUBLISHED MARCH 16, 1920.

132,268. CLEANING COMPOUNDS FOR GENERAL USE. Utilities Chemical Company, Detroit, Mich.
Filed June 23, 1919. Serial No. 119,876. PUBLISHED MARCH 23, 1920.

132,269. HOSIERY FOR MEN, WOMEN, AND CHILDREN. Walker Hosiery Mills Co., Burlington, N. C.
Filed December 15, 1919. Serial No. 126,082. PUBLISHED MARCH 9, 1920.

132,270. COTTON PIECE GOODS. Warner-Godfrey Co., New York, N. Y.
Filed January 6, 1920. Serial No. 126,886. PUBLISHED MARCH 23, 1920.

132,271. UMBRELLAS. Weinberg & Bisbing, New York, N. Y.
Filed January 17, 1920. Serial No. 127,272. PUBLISHED MARCH 16, 1920.

132,272. DRESS, NEGLIGÉE, AND WORK SHIRTS AND KNIT AND ATHLETIC UNDERWEAR FOR MEN. Weinberg & Weinberg, New York, N. Y.
Filed December 13, 1919. Serial No. 125,990. PUBLISHED MARCH 9, 1920.

132,273. FABRIC AND LEATHER-FACED-FABRIC GLOVES AND LEATHER GLOVES. Wells-Lamont Manufacturing Company, Minneapolis, Minn.
Filed December 11, 1919. Serial No. 125,868. PUBLISHED MARCH 9, 1920.

132,274. TEXTILE COTTON, UNION, AND ALL-LINEN GOODS IN THE PIECE. James F. White & Co., Inc., New York, N. Y.
Filed June 28, 1919. Serial No. 120,076. PUBLISHED MARCH 2, 1920.

132,275. CANNED TUNA FISH. White Star Canning Co., East San Pedro, Calif.
Filed December 15, 1919. Serial No. 126,083. PUBLISHED MARCH 30, 1920.

132,276. WRITING-PAPER AND MAILING-ENVELOPS. Whiting Paper Company, Holyoke, Mass.
Filed August 29, 1919. Serial No. 122,145. PUBLISHED MARCH 2, 1920.

132,277. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. Whittemore Brothers, Corporation, Cambridge, Mass.
Filed October 17, 1918. Serial No. 113,784. PUBLISHED MARCH 23, 1920.

132,278. NON-ALCOHOLIC NON-INTOXICATING CONCENTRATED MALT AND HOP EXTRACT SOLD FOR THE PREPARATION OF A CEREAL BEVERAGE. Thomas J. Wild, Chicago, Ill.
Filed October 20, 1919. Serial No. 124,027. PUBLISHED MARCH 16, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

KITSELMAN *v.* REID, REID, AND KELLEY.

Decided January 27, 1919.

1. PATENTS—INTERFERENCE—SUFFICIENCY OF DISCLOSURE IN SPECIFICATION.

Where the specification of an application does not describe all the parts of a complete machine, but refers to an earlier application, and the disclosures taken together are sufficient to enable one skilled in the art to construct a complete machine, *Held* that the objection that the specification of the later application is insufficient is not sustained.

2. SAME—SAME—REDUCTION TO PRACTICE—ALLEGED LACK OF ADVANCE OVER PRIOR ART.

That the device disclosed by one of the parties increases the cost of manufacture and produces a product not readily salable is not sufficient to justify a holding that such device is inoperative.

APPEAL from Examiners-in-Chief.

WIRE-FABRIC MACHINE.

Mr. Chas. W. La Porte for Kitselman.

Mr. Julian C. Dowell for Reid, Reid, and Kelley.

NEWTON, *Commissioner:*

This is an appeal by Kitselman from a decision of the Examiners-in-Chief affirming the decision of the Examiner of Interferences awarding priority of invention of all counts to Reid, Reid, and Kelley.

The subject-matter here in controversy is closely related to that of the companion interference No. 32,216, which involved the same parties and which came on for hearing at the same time. The wire fence construction as set forth in each of the six counts of this interference differs from that of the companion interference, in that it includes mechanism for severing the wire fabric into two parts whereby two complete strips of fencing may be simultaneously produced by a single machine.

Kitselman, upon whom the burden of proof rests as junior party, has taken no testimony. He contends, however, that he is entitled to an award of priority because the counts of the interference relate to structure which is not sufficiently disclosed in the application of Reid, Reid, and Kelley, and, further, that the machine disclosed by Reid, Reid, and Kelley is inoperative.

The drawings of the Reid, Reid, and Kelley application are somewhat diagrammatic, and the specification does not describe all the parts of a complete machine. However, the specification makes reference to an earlier application, No. 262,966, of Reid, Reid, and Kelley which illustrates the same type of machine, but arranged to produce only a single roll or strip of fencing. I am of the opinion that from the disclosure of the Reid, Reid, and Kelley application here involved and of said earlier application No. 262,966, a mechanic skilled in this art would be able to construct a complete machine of the character called for by the counts of this interference.

In the specification of the Reid, Reid, and Kelley application the timing of the operation of the central cutter and the twisters is described as follows:

> *n* is a middle cutter which may or may not be used to sever the stay wire in two either before or after the operation of the twisters. If used before, the two middle or innermost twisters (Nos. 1) would be merely end twisters each rotatable in a reverse direction to the succeeding twisters of the same series. If used after, or if not used at all, the said middle twisters would be loopers and twisters as shown. (P. 4, lines 10–16, Reid, Reid, and Kelley specification.)

From the above it is clear that Reid, Reid, and Kelley contemplated alternative forms of mechanism, in one of which the action of the "middle cutter" would occur prior to the operation of the twisters. In the other it would occur subsequently thereto.

Counts 3 and 4 when considered in connection with the disclosure of Reid, Reid, and Kelley would be limited to the mechanism wherein the cutter was brought into operation subsequently to the twisters. Kitselman points out that the machine of Reid, Reid, and Kelley when arranged and operated in the manner specified in counts 3 and 4 would produce fencing of the character illustrated in Kitselman's brief opposite page 26 and contends that the machine when built and used in this manner is inoperative because of the projecting portions of the stay-wires which not only results in increased cost of manufacture, but also renders the product unsalable. However, even admitting that the cost of manufacture is greater and that the fencing is not readily salable this in itself is not sufficient to justify a holding that the machine of Reid, Reid, and Kelley is inoperative.

It is urged on behalf of Kitselman that the testimony taken by Reid, Reid, and Kelley shows that they are not joint inventors. I agree with the lower tribunals that a proper basis for such contention is not disclosed in the evidence.

The decision of the Examiners-in-Chief awarding priority to Reid, Reid, and Kelley as to the subject-matter of all the counts in issue is affirmed.

REID, REID, AND KELLEY *v.* KITSELMAN.

Decided January 27, 1919.

1. PATENTS—INTERFERENCE—EFFECT OF PRIOR ADJUDICATION.

A contention that a count of an interference is not patentably different from the issue in a prior interference between the same parties which had been finally determined does not form a proper basis for invoking the principle of *res adjudicata*, as it is, in effect, merely a denial of the patentability of the count.

2. SAME — SAME — COUNT INDEFINITE — CONSTRUED AND PRIORITY AWARDED—SUBSEQUENT AMENDMENT.

A count of the interference *Held* indefinite in language, but construed to have a certain meaning. Priority thereon awarded to K., but the Primary Examiner directed to require, after the final adjudication, that such claim be made more definite.

3. SAME—SAME—COUNTS BARRED TO ONE OF THE PARTIES, BUT PRIORITY AWARDED TO THEM.

Decision of the Examiners-in-Chief awarding priority to R., R., and K. as to certain counts, but recommending that the counts were barred by a prior patent to them, affirmed, following the practice authorized by the Court of Appeals of the District of Columbia in *Norling* v. *Hayes*, (166 O. G., 1282; 37 App. D. C., 169.)

APPEAL from Examiners-in-Chief.

WIRE-FABRIC MACHINE.

Mr. Julian C. Dowell for Reid, Reid, and Kelley.

Mr. Chas. W. La Porte for Kitselman.

NEWTON, *Commissioner:*

This case comes before me upon appeal from the decision of the Examiners-in-Chief. The interference comprises fifty-seven counts. Priority of invention of the subject-matter of counts 19, 37, 46, 47, 53, 56, and 57 has been awarded to Reid, Reid, and Kelley by the Examiners-in-Chief, and Kitselman has been adjudged the prior inventor of the subject-matter of the remaining counts. Both parties have appealed from such parts of said decision as are unfavorable to them.

The invention in issue concerns a loom for producing woven-wire fencing, and the counts appear in full in the decision of the Examiner of Interferences.

In the production of fencing, as disclosed by both parties, the wires forming the longitudinal strands of the fence are given an intermittent motion in their travel through the machine. Suitable feeding and guiding means is provided for projecting the stay-wires across the longitudinal wires. The longitudinal wires pass through apertures axially located in certain rotary looping and twisting mechanisms. During the period that the longitudinal wires are stationary the stay-wire is brought in contact with the loopers and twisters, which grip the stay-wire and twist it about the longitudinal wires.

The manner in which the loopers and twisters operate to form a loop in the stay-wire and to twist it about the longitudinal wires is well illustrated in Figures 18–21 of the Kitselman application. The twisters provided for attaching the stay to the top and bottom longitudinal wires of the fence do not form a loop, but merely coil the projecting end of and twist it about the longitudinal wires.

This controversy is principally concerned with the order of operation of the twisters. In both the machine illustrated in the application of Kitselman and the one disclosed in the application of Reid, Reid, and Kelley the two center twisters begin to operate first and operate simultaneously or in coincidence. The twisters operate in succession in each direction from the center of the machine, corresponding pairs in each direction being timed to operate simultaneously.

Kitselman has taken no testimony and relies upon his filing date—September 17, 1906—as his effective date of conception and constructive reduction to practice. The junior party's application was not filed until February 15, 1910.

The junior party contends that the evidence which he has submitted relative to conception prior to Kitselman's filing date and the building and operation of a machine in 1908 is sufficient to establish priority. This evidence has been fully considered by both the Examiner of Interferences and the Examiners-in-Chief in their decisions, both tribunals holding that Reid, Reid, and Kelley were lacking in diligence in reducing the invention to practice and that because of such lack of diligence the actual reduction to practice of the invention by Reid, Reid, and Kelley, as evidenced by the construction and operation of 1908 machine, will not avail to overcome the earlier filing date of Kitselman. With this conclusion I agree.

Reid, Reid, and Kelley were involved in interference proceedings Nos. 29,457, 34,829, and 36,722, all with Kitselman. These interferences concerned machines for producing wire-fencing, and all said interferences were finally determined in favor of Reid, Reid, and Kelley. These interferences involved application Serial No. 262,966, of Reid, Reid, and Kelley, now matured into Patent No. 1,160,089, which does not disclose the subject-matter of the counts of the present interference, with certain exceptions, which will be later taken up. Reid, Reid, and Kelley contend that priority of the subject-matter of this interference is *res adjudicata* by reason of the judgments in the prior interferences, basing their argument on the contention that the mechanisms defined by the counts of this interference, while differing in detail from that disclosed in their Patent No. 1,160,089, do not in fact involve anything beyond ordinary mechanical skill. This contention therefore is, in effect, merely a denial of the patentability of the claims, and accordingly does not form a proper basis for invoking the principle of *res adjudicata*.

That Reid, Reid, and Kelley were not joint inventors was urged below, (see decision of Examiners-in-Chief, par. 1, p. 12;) but no reference is made to this point on appeal. I have therefore made no reference to it in this decision.

Reid, Reid, and Kelley have placed in evidence their Patent No. 721,605, issued February 24, 1903, and their Patent No. 1,160,089, granted November 9, 1915, upon application Serial No. 262,966, filed May 29, 1905. The Examiners-in-Chief have awarded priority of invention to Kitselman because of the junior party's failure to overcome Kitselman's filing date except in the case of the subject-matter

of certain counts which were held to be disclosed in the above patents. Said counts will now be taken up and considered in detail.

The Examiner of Interferences awarded count 7 to Reid, Reid, and Kelley, holding that the subject-matter was disclosed in their Patent No. 1,160,089. Said count reads as follows:

7. A wire fabric loom, including a complement of wire connecting devices arranged to connect the same stay to a series of wires, and operating means serving to cause certain of the wire connecting devices to operate in complete coincidence with each other but in non-coincidence with certain other of said devices.

In order to satisfy this count an operation of at least two twisters in perfect or complete coincidence is necessary. In the specification of Patent No. 1,160,089 (p. 9, lines 20–26) the operation of the two twisters most remote from the stay-wire-feed rolls is described as follows:

And the first and second twisters may act practically or nearly simultaneously, it being only necessary for the stay wire to be engaged and held on the outermost or first strand when the looping pin of the second twister draws the loop over the second strand.

The term "complete coincidence" is construed to call for twisters whose operation is isochronous, and such a mechanism is disclosed by the applications involved in this interference. While the statement above quoted describes the action of "the first and second twisters" of Patent No. 1,160,089 as "practically or nearly simultaneous," there is no definite statement that the operation of both these twisters is or could be initiated and completed at exactly the same time. From the disclosure in said patent it would appear necessary that the twisters most remote from the stay-feed rolls rotate sufficiently to grip the wire before the looping-pin of the adjacent twister begins to exert pressure upon the stay-wire. Otherwise a portion, at least, of the stay would be withdrawn from the first twister. I am therefore inclined to agree with the view taken by the Examiners-in-Chief that the subject-matter of count 7 is not disclosed in the Patent No. 1,160,089 of Reid, Reid, and Kelley and that priority as to said count should be awarded to Kitselman.

A certain lack of indefiniteness as to the language of count 13 has been indicated in both the decision of the Examiner of Interferences and that of the Examiners-in-Chief. Said count is as follows:

13. A wire fabric loom, including two series of twisters arranged to twist the same stay around a series of wires, corresponding twisters of said series operating in pairs.

The statement that corresponding twisters operate in pairs, when viewed in the light of the machines in controversy, suggests but does not specify that all pairs do not operate simultaneously. Otherwise a structure such as shown in Patent No. 721,605, issued to Reid, Reid, and Kelley, would apparently satisfy this count. The award of this count to Kitselman by the Examiners-in-Chief is affirmed. Also the recommendation of said tribunal as to this count is approved, and the Primary Examiner is directed, after the final adjudication of priority, to require said claim to be made more definite, to bring out the idea that the pairs of twisters operate successively.

The award of priority to Kitselman by the Examiner of Interferences as to count 19 was reversed by the Examiners-in-Chief, the latter tribunal holding that Reid, Reid, and Kelley were entitled to priority as to this count, but recommending that the issue of a patent for such subject-matter to Reid, Reid, and Kelley was barred by the disclosure in their Patent No. 721,605. I find no error in this ruling, and therefore affirm the decision of the Examiners-in-Chief as to said count 19, following the practice authorized by the Court of Appeals of the District of Columbia in *Norling* v. *Hayes*, (166 O. G., 1282; 37 App. D. C., 169.)

The subject-matter of count 37 was also found by the Examiners-in-Chief to be disclosed in the machine of the Patent No. 721,605, granted to Reid, Reid, and Kelley. Count 37 is as follows:

37. A wire fabric loom, including a series of rotary twisters all arranged to twist the same stay upon all of the longitudinal wires of the fabric, and means for operating certain of said twisters simultaneously in opposite directions.

The twisters as described in said patent are arranged to be operated simultaneously by the rack J, one of the outermost twisters or coilers rotating in a direction opposite to that of the adjacent twister. (See p. 4, lines 107–118, of the specification of Patent No. 721,605.) I am therefore of the opinion that the language of this count is satisfied by the structure illustrated and described in said Patent No. 721,605, and therefore affirm the Examiners-in-Chief in their award of this claim to Reid, Reid, and Kelley. After the final determination of priority the Primary Examiner is directed to reject this claim, as barred by the grant of said Patent No. 721,605.

Count 53 is also found to be satisfied by the machine of Patent No. 721,605 when said machine is arranged to produce a plurality of lines of fencing at one time, which is clearly contemplated, as indicated by the language found on page 1, lines 45–50, and pages 4 and 5, lines 119–134 and lines 1–10, respectively. The award of this count to Reid, Reid, and Kelley is affirmed and the recommendation that this claim be rejected after the final adjudication of priority is approved.

The Examiner of Interferences and the Examiners-in-Chief differ as to the meaning to be given certain language in count 22. This count is as follows:

22. A wire fabric loom, including a series of combined loopers and twisters arranged to form a series of loops in a stay and to twist said loops about a series of line wires, and means for bringing a plurality of said devices into action simultaneously and for subsequently bringing other of said devices into action.

It is to be noted that this count by express terms is limited to combined twisters and loopers, which excludes a mere twister or coiler such as is found at the end of the series most remote from the stay-feed rolls in Reid, Reid, and Kelley's Patent No. 1,160,089. Moreover, the limitation—

means for bringing a plurality of said devices into action simultaneously—

is not satisfied by a mere disclosure of means for starting the operation of successive twisters before the operation of others has been completed. This

count is not found to read upon the machine of said Patent No. 1,160,089, and the award of priority as to count 22 to Kitselman is affirmed.

I agree with the conclusions reached by the lower tribunals as to counts 44 and 45 and affirm the award of these counts to Kitselman.

The Examiners-in-Chief in their decision have discussed quite fully the subject-matter of counts 46, 47, 56, and 57, pointing out the structures disclosed in Patent No. 1,160,089, granted to Reid, Reid, and Kelley, which are regarded as satisfying these counts. No error is found in the award of these counts to Reid, Reid, and Kelley, and such holding is affirmed. The recommendation of the Examiners-in-Chief that these claims are not allowable to Reid, Reid, and Kelley because barred by the grant of their former Patent No. 1,160,089 is deemed to be well founded, and after final decision on priority allowance of these claims to Reid, Reid, and Kelley should be refused.

Count 48 is as follows:

48. A wire fabric loom including a series of combined stay loopers and twisters, and operating means arranged to bring certain of said combined loopers and twisters into action successively beginning with a looper and twister located at an intermediate point of the series, to cause the formation of loops in the stay and the twisting of said loops about line wires.

Count 48, as heretofore pointed out in regard to count 22, is limited to combined twisters and loopers, and thus eliminates twisters which do not embody the looping mechanisms. I agree with the Examiners-in-Chief that this count is not readable upon the machine of Patent No. 1,160,089, and priority as to this count is awarded to Kitselman.

The decision of the Examiners-in-Chief awarding priority of invention to Kitselman of the subject-matter of counts 1–18, inclusive; 20–36, inclusive; 38–45, inclusive; 48–52, inclusive, and counts 54 and 55 and awarding priority of invention of the subject-matter of counts 19, 37, 46, 47, 53, 56, and 57 to Reid, Reid, and Kelley is affirmed.

[Vol. 275. No. 3.]

Linden, John P., assignor to Waterbury Clock Co., Waterbury, Conn. Locking device. No. 1,343,733; June 15; v. 275; p. 532.

Lindsay, James E., Selma, La. Hose and garment supporter. No. 1,343,514; June 15; v. 275; p. 489.

Link-Belt Company. (See Pratt, Howell D., assignor.)

Linnemeyer, Frederick W., *et al.* (See Milligan, Rockwell M., assignor.)

Lips, Henricus J. J. M. (See Eras, V. J. M., and Lips.)

Liverlng, Charles J., St. Petersburg, Fla. Jack. No. 1,343,872; June 15; v. 275; p. 561.

Locarni, Vittorio, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Means for the automatic equilibrium of floating cranes. No. 1,343,630; June 15; v. 275; p. 512.

Long, Charles H., Cedar Rapids, Iowa. Pocket-guard. No. 1,343,371; June 15; v. 275; p. 461.

Londen Machinery Company, The. (See Louden, Walter A., assignor.)

Louden, Walter A., assignor to The Louden Machinery Company, Fairfield, Iowa. Trolley. No. 1,343,631; June 15; v. 275; p. 512.

Ludolph, Geo. R. (See T. Troja, Louis F., assignor.) (Reissue.)

Ludwig, William, Bellaire, Ohio. Pipe-blister-removing device. No. 1,343,571; June 15; v. 275; p. 500.

Lupton's, David, Sons Co. (See Levene, Albert H., assignor.)

Lychyj, Iwan, Sault Ste. Marie, Ontario, Canada. Engine-driven air-compressor. No. 1,343,270; June 15; v. 275; p. 441.

Lynde, Francis G., Belvedere, England. Concrete-mold. No. 1,343,572; June 15; v. 275; p. 500.

Lyons, Frank F., Stockton, Calif. Ditch-digging machine. No. 1,343,734; June 15; v. 275; p. 533.

Lytton, Cullen L., Gastonia, N. C. Tool for attaching paper tubes to winders. No. 1,343,632; June 15; v. 275; p. 512.

McAdams, Victor W., Denver, Colo. Humidifying apparatus. No. 1,343,873; June 15; v. 275; p. 561.

McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Finished surface for articles of manufacture. No. 1,343,216; June 15; v. 275; p. 432.

McCormack, Ira A., New York, N. Y. Lock. No. 1,343,271; June 15; v. 275; p. 441.

McCormick, Charles W., Pittsburgh, Pa. Shaft-coupling. No. 1,343,272; June 15; v. 275; p. 442.

McCoy, Walter R. (See Palmer, Walter W., assignor.)

McGee, James R., Milwaukee, Wis. Automatic elevator-door. No. 1,343,328; June 15; v. 275; p. 452.

McGoldrick, Timothy. (See Tiffany, Louis L., assignor.)

McPheters, Selden G., Oldtown, Me. Automatic marking or stamping device. No. 1,343,633; June 15; v. 275; p. 512.

Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, England. Manufacture of tires. No. 1,343,460; June 15; v. 275; p. 478.

MacBryde, Louis E., Newark, N. J., assignor to G. Snyder, Fostoria, Ohio. Relief-valve. No. 1,343,735; June 15; v. 275; p. 533.

MacDowall, John L., Perth Amboy, and W. K. Bassford, Metuchen, N. J. Safety device for oil heaters and lamps. No. 1,343,217; June 15; v. 275; p. 432.

MacKersie, Arthur M., San Jacinto, Calif. Buckrake and stacker. No. 1,343,398; June 15; v. 275; p. 466.

Madden, Murray M., Shiprock, N. Mex. Sun-dial and compass. No. 1,343,515; June 15; v. 275; p. 489.

Madunicky, John. (See Krajnah, M., and Madunicky.)

Major, William R., Coshocton, and F. H. Grove, assignors to The Banner Machine Company, Columbiana, Ohio. Machine for building tire casings and tubes. No. 1,343,399; June 15; v. 275; p. 466.

Malcolm, Thomas J., Okmulgee, Okla. Piano-bridle-strap fastener. No. 1,343,516; June 15; v. 275; p. 489.

Mandeville, Thomas G. (See Dunhill, A., and Mandeville.)

Mangum, Sam E. (See Franklin, I. A., and Mangum.)

Manker, Charles C., Oklahoma, Okla., assignor of one-half to M. J. Morley, Pittsburgh, Pa. Gas-radiator. No. 1,343,634; June 15; v. 275; p. 512.

Manker, Charles C., Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated. Vaporizer for heavy oils. No. 1,343,635; June 15; v. 275; p. 513.

Marberg, Carl G., Chicago, Ill. Roof-gutter or eaves-trough. No. 1,343,461; June 15; v. 275; p. 478.

Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,343,218; June 15; v. 275; p. 432.

Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,343,219; June 15; v. 275; p. 432.

Marinsky, Davis, New York, N. Y. Shoe-sole protector. No. 1,343,329; June 15; v. 275; p. 452.

Marr, Winfield S., Enid, Okla. Identification attachment for automobiles. No. 1,343,837; June 15; v. 275; p. 554.

Martin, Jacob, *et al.* (See Scholes, Edmond P., assignor.)

Martindale, Thomas B. (See Champion, John J., and Martindale.)

Maserang, John B., Belleville, Ill. Hatpin attachment. No. 1,343,736; June 15; v. 275; p. 533.

Mason, William B., and L. S. Ryan, Lamar, Mo. Bed-tray. No. 1,343,636; June 15; v. 275; p. 513.

Mast, John C., assignor to F. N. Hooper Company, Inc., Glenarm, Md. Holding device for printing-plates. No. 1,343,220; June 15; v. 275; p. 433.

Martinez, Victorino, Habana, Cuba. Electric-lamp holder. No. 1,343,573; June 15; v. 275; p. 501.

Masker, Frederick M., Plainfield, N. J. Fruit-jar tongs. No. 1,343,518; June 15; v. 275; p. 489.

Measuregraph Company, The. (See Christopher, Arthur B., assignor.)

Measuregraph Company, The. (See Hosch, Greene C., assignor.)

Measuregraph Co., The. (See Hosch, Walter E., assignor.)

Mechanical Rubber Company, The. (See Hopkins, Arthur T., assignor.)

Mechanical Rubber Company, The. (See Kinsley, Richard F., assignor.)

Mecky, A., Company. (See Papini, Antonio, assignor.)

Mellinger, Edward A., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange automatic switching system. No. 1,343,462; June 15; v. 275; p. 478.

Meredith, Thomas D., London, England. Clip for stopping leakage in damaged pipes. No. 1,343,463; June 15; v. 275; p. 478.

Messer, George F., Aberdeen, Wash. Dirigible headlight. No. 1,343,822; June 15; v. 275; p. 550.

Meteor Motor Company. (See Pflaume, Julius R., assignor.)

Meyer, George T., *et al.* (See Milligan, Rockwell M., assignor.)

Meyer, John E., Shepherd, Mich. Farm-tractor. No. 1,343,464; June 15; v. 275; p. 479.

Meyercord, George R., Chicago, Ill. Composite booth, counter, and the like. No. 1,343,637; June 15; v. 275; p. 513.

Michigan Chemical Company. (See Molony, Stuart B., assignor.)

Mickelson, Algot E., Devlin, Ontario, Canada. Horseshoe. No. 1,343,874; June 15; v. 275; p. 561.

Miles, James C., Cleveland, Ohio. Heating and ventilating apparatus. No. 1,343,330; June 15; v. 275; p. 453.

Miller, Emil A., assignor of one-half to C. L. Koerner, Oakland, Calif. Rotary engine. No. 1,343,331; June 15; v. 275; p. 453.

Miller, Herbert F., Jr. (See Downs, G. F., and Miller.)

Miller, Raymond, Rochester, N. Y. Automatic pump-priming device. No. 1,343,574; June 15; v. 275; p. 501.

Miller Rubber Company. (See Whisler, Chauncy P., assignor.)

Milligan, Rockwell M., assignor of one-half to G. T. Meyer and one-fourth to F. W. Linnemeyer, St. Louis, Mo. Hinge for desk-tops. No. 1,343,332; June 15; v. 275; p. 453.

Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,343,221; June 15; v. 275; p. 433.

Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,343,222; June 15; v. 275; p. 433.

Minerals Separation North American Corporation. (See Dolbear, Samuel H., assignor.)

Mitchell, John A., Newark, assignor of one-half to A. D. T. Libby, East Orange, N. J. Heel-attaching means. No. 1,343,638; June 15; v. 275; p. 513.

Mock, Hugo, New York, N. Y. Strainer. No. 1,343,679; June 15; v. 275; p. 522.

Moen, Hans J. (See Hyatt, J. E., and Moen.)

Moline, Emil E., Sioux City, Iowa. Floor-waxing device. No. 1,343,223; June 15; v. 275; p. 433.

Molony, Stuart B., Wellesley Hills, Mass., assignor to Michigan Chemical Company. Rubber vulcanization and product thereof. No. 1,343,224; June 15; v. 275; p. 433.

Moore, Mark E., Minneapolis, assignor to Moore Tool Company, Fairmont, Minn. Expanding mandrel. No. 1,343,273; June 15; v. 275; p. 442.

Moore Tool Company. (See Moore, Mark E., assignor.)

Moore, William E., Pittsburgh, Pa. Furnace-charging device. No. 1,343,465; June 15; v. 275; p. 479.

Morgan & Wright. (See Cederstrom, Bror E., assignor.)

Mork, Jack, Chicago, Ill. Shoe-polisher. No. 1,343,466; June 15; v. 275; p. 479.

Morley-Manker Company. (See Manker, Charles C., assignor.)

Morley, Murray J. (See Manker, Charles C., assignor.)

Morris, Lute P. (See Thompson, R. A., and Morris.)

Morse, Harry W., assignor to American Trona Corporation, Trona, Calif. Separation of constituents of brines. No. 1,343,400; June 15; v. 275; p. 466.

Morse, Harry W., assignor to American Trona Corporation, Trona, Calif. Separating potassium compound from brines. No. 1,343,401; June 15; v. 275; p. 467.

Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Steering device for vehicles. No. 1,343,225; June 15; v. 275; p. 433.

Motte, Charles M., assignor to Mrs. Delqué, born M. A. Habaus, and C. M. Motte, Paris, France. Combined bonnet and car-body for automobile-vehicles. No. 1,343,519; June 15; v. 275; p. 490.

Motteau, Antime, Buenos Aires, Argentina. Window. No. 1,343,520; June 15; v. 275; p. 490.

Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
Mueller, Rudolph J. J., assignor to Universal Oxygen Company, Sheboygan, Wis. Cheese-hoop. No. 1,343,402; June 15; v. 275; p. 467.
Müller, Jakob, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Starting-valve for combustion-engines. No. 1,343,226; June 15; v. 275; p. 434.
Mulvihill, Daniel C., Hannibal, Mo. Lifting-jack. No. 1,343,274; June 15; v. 275; p. 442.
Mulvihill, Daniel C., Hannibal, Mo. Lifting-jack. No. 1,343,275; June 15; v. 275; p. 442.
Murphy, Hugh D., Fort Wayne, Ind. Electrical signaling system. No. 1,343,467; June 15; v. 275; p. 479.
Murphy, John T. and P. P., Chicopee Falls, Mass. Means for cutting. No. 1,343,639; June 15; v. 275; p. 514.
Murphy, Patrick P. (See Murphy, John T. and P. P.)
Murray & Tregurtha Company. (See Funderburk, Otis C., assignor.)
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,343,785; June 15; v. 275; p. 543.
Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,343,786; June 15; v. 275; p. 543.
Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Graniophone-drive. No. 1,343,640; June 15; v. 275; p. 514.
Myers Phonograph Corporation. (See Myers, Frederick, assignor.)
Nash, Clarence A., Milwaukee, Wis. Manufacture of phenolic condensation products. No. 1,343,575; June 15; v. 275; p. 501.
National Brake & Electric Company. (See Aikman, Burton S., assignor.)
National Carbon Company Inc. (See Chapin, Harold C., assignor.)
National Paper Can Company. (See Hulbert, Edwin F., assignor.)
National Supply Company, The. (See Wright, Clyde S., assignor.)
Naudet, Leon, Chelles, France. Extracting sugar. No. 1,343,737; June 15; v. 275; p. 533.
Neil, Ewell, Nashville, Tenn. Syringe. No. 1,343,787; June 15; v. 275; p. 543.
Neilson, Thomas, London, England. Valve and deflector of ventilating apparatus. No. 1,343,576; June 15; v. 275; p. 501.
Nelson, Martin J., Rye, N. Y. Egg-timer. No. 1,343,738; June 15; v. 275; p. 533.
Neptune Sea Food Company. (See Koehl, George J., assignor.)
Nesdall, John T., Brooklyn, N. Y. Stair structure. No. 1,343,739; June 15; v. 275; p. 534.
Newton, Richard T., New York, N. Y. Bumper. No. 1,343,740; June 15; v. 275; p. 534.
Newton, Richard T., New York, N. Y. Automobile-buffer. No. 1,343,741; June 15; v. 275; p. 534.
Nielsen, Reidar, and V. M. Goldschmidt, assignors to Titan Co. A/S., Christiania, Norway. Producing pigments. No. 1,343,468; June 15; v. 275; p. 479.
Nielsen, Reidar, and V. M. Goldschmidt, assignors, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Titanium products and producing same from precipitated titanium hydrates. No. 1,343,469; June 15; v. 275; p. 479.
Niewaleski, Viktor, Brooklyn, N. Y. Game. No. 1,343,838; June 15; v. 275; p. 554.
Nordell, Carl, Gilbertville, Mass. Bobbin and spindle connector. No. 1,343,839; June 15; v. 275; p. 554.
North Bro's. M'f'g. Co. (See Leopold, George O., assignor.)
O'Gorman, William J., New York, N. Y. Attachment for spark-plugs. No. 1,343,372; June 15; v. 275; p. 461.
Okey, Perry, Columbus, Ohio. Heat-engine. No. 1,343,577; June 15; v. 275; p. 501.
Olson, Carl G., and N. Trbojevich, assignors to Illinois Tool Works, Chicago, Ill. Combination roughing and finishing hob. No. 1,343,276; June 15; v. 275; p. 442.
Omar, Fasiffo, J., Council, Ark. Motorcycle. No. 1,343,788; June 15; v. 275; p. 544.
O'Neill, Pearl, *et al.* (See Spencer, William H., assignor.)
Orrefors Bruks Aktiebolag. (See Ahlin, Albert, assignor.)
Osborn, Alexander C., Jr., Clarksburg, W. Va. Furnace. No. 1,343,470; June 15; v. 275; p. 479.
Osram-Robertson Lamp Works. (See Durdle, Oswald, assignor.)
Ostdiek, Herman J., Minneapolis, Minn. Caliper-rule. No. 1,343,227; June 15; v. 275; p. 434.
Otterson, George W., Seattle, Wash. Traveling apparatus for cleaning sewer-basins. No. 1,343,471; June 15; v. 275; p. 480.
Osterweil, Sydney, assignor to L. Goldsmith & Son, Newark, N. J. Drawer-locking device. No. 1,343,742; June 15; v. 275; p. 534.
Otto, Maximilian J., New York, N. Y. Portable heating-stove. No. 1,343,578; June 15; v. 275; p. 502.
Oursler, Sam R. (See Oursler, William C., assignor.)
Oursler, William C., assignor to S. R. Oursler, Memphis, Tenn. Automatic cleaning device for spark-plugs. No. 1,343,743; June 15; v. 275; p. 535.
Owens-Stark Manufacturing Company. (See Stark, John R., assignor.)
Pagel, William F., Sycamore, Ill. Torch. No. 1,343,403; June 15; v. 275; p. 467.
Palmer Electric & Manufacturing Company, The. (See Palmer, Granville E., assignor.)
Palmer, Granville E., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Alternating-current electromagnet. No. 1,343,404; June 15; v. 275; p. 467.
Palmer, Walter W., Montclair, N. J., assignor of one-half to W. R. McCoy, New York, N. Y. Preserving-container. No. 1,343,579; June 15; v. 275; p. 502.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Coupling for faucets, spigots, or the like with fluid-receivers, hose, or other conductors of fluids. No. 1,343,228; June 15; v. 275; p. 434.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Compressible rheostat. No. 1,343,472; June 15; v. 275; p. 480.
Parker, Winthrop, Manchester, N. H. Yarn-winding machine. No. 1,343,333; June 15; v. 275; p. 453.
Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Automobile-pedal lock. No. 1,343,405; June 15; v. 275; p. 467.
Parkinson, William J., assignor to Eastman Kodak Company, Rochester, N. Y. Controlling device for punch-presses. No. 1,343,580; June 15; v. 275; p. 502.
Pataye, Frank, Gardenville, N. Y. Demountable metal tire for automobiles. No. 1,343,840; June 15; v. 275; p. 554.
Patterson, Fyson D., *et al.* (See Patterson, Thomas, assignor.)
Patterson, Thomas, assignor of one-third to F. D. Patterson and one-third to T. E. Patterson, Hamilton, Ontario, Canada. Portable hanger for hoisting-tackle. No. 1,343,641; June 15; v. 275; p. 514.
Patterson, Thomas E., *et al.* (See Patterson, Thomas, assignor.)
Patton, Oliver C., Denver, Colo., assignor to The Auto Dimmer Company. Dimmer for automobile-headlights. No. 1,343,886; June 15; v. 275; p. 563.
Pedersen, Carsten, Copenhagen, Denmark. Conveying device. No. 1,343,373; June 15; v. 275; p. 461.
Pendergast, Frederick W., Cambridge, Mass. Diving apparatus. No. 1,343,744; June 15; v. 275; p. 535.
Pendergast, Frederick W., Cambridge, Mass. Chimney-heater. No. 1,343,745; June 15; v. 275; p. 535.
Peoples, John S., Washington, D. C. Ammunition-receptacle. No. 1,343,374; June 15; v. 275; p. 462.
Peppercorn, Alfred E., Forbes, New South Wales, Australia. Automatic additional-air valve for combustion-engines. No. 1,343,375; June 15; v. 275; p. 462.
Perry, Edward T., assignor of one-half to H. M. Wiegand, Detroit, Mich. Baffle-plate. No. 1,343,376; June 15; v. 275; p. 462.
Pfeil, Elmer C., Fostoria, Ohio, and H. O. Remisderfer, Hammond, Ind., assignors to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,343,841; June 15; v. 275; p. 554.
Pflaume, Julius R., Chicago, Ill., assignor to Meteor Motor Company. Engine. No. 1,343,473; June 15; v. 275; p. 480.
Philbrook, Edward F., Jr., Kansas City, Mo. Stand. No. 1,343,229; June 15; v. 275; p. 434.
Pierce, Winslow S., Jr., Bayville, N. Y. Lock for nuts and the like. No. 1,343,334; June 15; v. 275; p. 453.
Piersol, Robert J., Bentleyville, Pa. Process and apparatus for metal-plating. No. 1,343,842; June 15; v. 275; p. 555.
Pine, James A. W., New York, N. Y., assignor, by mesne assignments, to Blackstone International Corporation. Coating mineral material and product resulting therefrom. No. 1,343,680; June 15; v. 275; p. 522.
Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Swivel-hanger for doors. No. 1,343,789; June 15; v. 275; p. 544.
Plucienski, John, Syracuse, N. Y. Sanitary cuspidor. No. 1,343,406; June 15; v. 275; p. 468.
Plumb, Roy A., Detroit, Mich., assignor to Truscon Steel Company, Youngstown, Ohio. Composite-tapered shingle machine. No. 1,343,581; June 15; v. 275; p. 502.
Pneumatic Cushion Company. (See Gruss, Lucien R., assignor.)
Pollock, George, San Francisco, Calif. Making shoes. (Reissue.) No. 14,882; June 15; v. 275; p. 564.
Porath, Carl A., Kokomo, Ind. Galvanizing-furnace. No. 1,343,843; June 15; v. 275; p. 555.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Loading apparatus. No. 1,343,746; June 15; v. 275; p. 535.
Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Apparatus for welding. No. 1,343,277; June 15; v. 275; p. 443.
Pray, Charles H., Los Angeles, Calif. Fire-escape. No. 1,343,642; June 15; v. 275; p. 514.
Premier Register Table Company. (See West, Elbert L. and J., assignors.)
Price & Teeple Piano Company. (See Freborg, Charles, assignor.)
Prince, Clarence K., Westfield, Mass. Mold-assembling crane. No. 1,343,335; June 15; v. 275; p. 454.
Pryde, Irving A., Richmond, Va. Closure for containers. No. 1,343,474; June 15; v. 275; p. 480.
Quackenboss, Leonard G., Chicago, Ill. Display-holder. No. 1,343,681; June 15; v. 275; p. 522.
Rabbeth, Francis J., Redlands, Calif. Coffee-pot. No. 1,343,582; June 15; v. 275; p. 502.
Racosky, John, Jerome, Pa. Cut-out switch for mine-trolleys. No. 1,343,475; June 15; v. 275; p. 480.

Radakovich, Michael, Milwaukee, Wis. Projectile. No. 1,343,747; June 15; v. 275; p. 536.
Rader, Anthony C., Alta, Iowa. Fountain-pen. No. 1,343,521; June 15; v. 275; p. 490.
Ragona, Vincent, assignor, by mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y. Band-stretcher. No. 1,343,336; June 15; v. 275; p. 454.
Randall-Faichney Company, The. (See Faichney, George H., assignor.)
Rapavy, Gaspar, Louisville, Nebr. Dough-cutter. No. 1,343,844; June 15; v. 275; p. 555.
Rapson, Frederick L., Liverpool, England. Lifting-jack. No. 1,343,845; June 15; v. 275; p. 555.
Rapson, Frederick L., Liverpool, England. Means for steering motor-vehicles. No. 1,343,846; June 15; v. 275; p. 555.
Reavell, William, Ipswich, England. Hydroplane or horizontal rudder of submarine vessels. No. 1,343,643; June 15; v. 275; p. 514.
Redfield, Edward E., Glendale, Oreg. Firearm. No. 1,343,583; June 15; v. 275; p. 503.
Reece Button Hole Machine Company. (See Reece, Franklin A., assignor.)
Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,343,278; June 15; v. 275; p. 443.
Reece, Franklin A., Hopkinton, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,343,337; June 15; v. 275; p. 454.
Reese, Alba D., Bisbee, Ariz. Device for registering explosions. No. 1,343,875; June 15; v. 275; p. 562.
Reid, Robert, Sanford, Me. Robe-securing device. No. 1,343,847; June 15; v. 275; p. 555.
Reifsnyder, James D., and W. A. Weightman, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Box-covering machine. No. 1,343,748; June 15; v. 275; p. 536.
Reinhardt, James H., East Orange, N. J., assignor of one-half to Federal Sugar Refining Company, New York, N. Y. Weighing-machine. No. 1,343,476; June 15; v. 275; p. 481.
Relsinger, Frank F., Evansville, Ind. Running-board structure. No. 1,343,281; June 15; v. 275; p. 443.
Remington, Alfred A. (See Leeding, E. J., and Remington.)
Rena, John. (See Camporini, A., and Rena.)
Reton, John, Stevens Point, Wis. Hydraulic transmission mechanism. No. 1,343,749; June 15; v. 275; p. 536.
Reynolds, Delbert J., Minneapolis, Minn., assignor to J. W. De Camp, Blackwell, Okla. Casket-panel. No. 1,343,280; June 15; v. 275; p. 443.
Reynolds, Charles D., Gretna, Va. Flue-support. No. 1,343,279; June 15; v. 275; p. 443.
Rice, Anson S., Brooklyn, assignor to Duparquet, Hout & Moneuse, New York, N. Y. Coffee-urn. No. 1,343,848; June 15; v. 275; p. 556.
Rice, Anson S., Brooklyn, assignor to Duparquet, Hout & Moneuse, New York, N. Y. Roll-heating device. No. 1,343,849; June 15; v. 275; p. 556.
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Spinning-machine. No. 1,343,230; June 15; v. 275; p. 434.
Richardson, Thomas H., Lexington, N. C. Cleaning apparatus. No. 1,343,644; June 15; v. 275; p. 515.
Richmond, William E., Madison, Wis. Vehicle-frame. No. 1,343,682; June 15; v. 275; p. 522.
Rondes, Weslie M., Okmulgee, Okla. Casing-head. No. 1,343,477; June 15; v. 275; p. 481.
Roberts, Frank, Liverpool, England, and J. M. Giffin, Halifax, Nova Scotia, Canada. Cementitious material for receptacle-closures. No. 1,343,282; June 15; v. 275; p. 444.
Roberts, George C. (See Schmidt, W. A., and Roberts.)
Robertson, Alexander C., North Sydney, and F. Volk, Enfield, New South Wales, Australia, assignors to Universal Grinding Machine Company, Reno, Nev. Grinding and polishing lenses. No. 1,343,522; June 15; v. 275; p. 490.
Robertson, Harold H., Sewickley, assignor to Aspromet Company, Pittsburgh, Pa. Built-up roofing. No. 1,343,478; June 15; v. 275; p. 481.
Roe, Alliott V., Hamble, Southampton, England. Controlling-gear for aircraft. No. 1,343,850; June 15; v. 275; p. 556.
Roe, Harry H., Pretoria, South Africa. Lock for meters, &c. No. 1,343,851; June 15; v. 275; p. 556.
Roemer, Arthur, Chicago, Ill., assignor to Roemer Manufacturing Company, Phonograph-motor. No. 1,343,584; June 15; v. 275; p. 503.
Roemer Manufacturing Company. (See Roemer, Arthur.)
Rogers, Manuel L., Johannesburg, Calif. Concentrator. No. 1,343,683; June 15; v. 275; p. 523.
Rosche Fluid Transmission, The. (See Rosche, Joseph W., assignor.)
Rosche, Joseph W., assignor to The Rosche Fluid Transmission Company, Minneapolis, Minn. Hydraulic transmission mechanism. No. 1,343,338; June 15; v. 275; p. 454.
Rosenblum, Henry L., New York, N. Y. Machine for laying fabrics. No. 1,343,339; June 15; v. 275; p. 454.
Ross Manufacturing Company, The. (See Ross, William E., assignor.)
Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Dressing-tool. No. 1,343,876; June 15; v. 275; p. 562.
Rottel, Herman W., Milwaukee, Wis. Crank-mounting for ice-machines of the compression type. No. 1,343,407; June 15; v. 275; p. 468.
Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Adjustable gage. No. 1,343,479; June 15; v. 275; p. 481.
Rosseau, Sidney A., De Witt, Ark. Fluid-pressure coupling. No. 1,343,852; June 15; v. 275; p. 556.
Rowsey Gasoline Process Company. (See Lechtenberg, Leo F., assignor.)
Rubin, Abraham, New York, N. Y. Hose-coupling. No. 1,343,853; June 15; v. 275; p. 557.
Ruddy, Michael J., Scranton, Pa. Jumper or crib. No. 1,343,523; June 15; v. 275; p. 491.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Purification of battery materials. No. 1,343,585; June 15; v. 275; p. 503.
Runyan, Arthur L., Omaha, Nebr. Wheel-cushion and means for mounting same. No. 1,343,684; June 15; v. 275; p. 523.
Runyan, Arthur L., Omaha, Nebr. Resilient tire-filler. No. 1,343,685; June 15; v. 275; p. 523.
Rutherford, Thomas J., Oklahoma, Okla. Oil-tank. No. 1,343,480; June 15; v. 275; p. 481.
Ryan, Lural S. (See Mason, W. B., and Ryan.)
Saalmann, Ernst R. (See Ischinger, Eric, assignor.)
Sabin, Herbert B., and O. C., Cleveland Heights, Ohio. Device for applying glazing compounds and the like. No. 1,343,408; June 15; v. 275; p. 468.
Sabin, Orrin C. (See Sabin, Herbert B., and O. C.)
Sanderson, William, Conneautville, Pa. Hoisting apparatus for vehicles. No. 1,343,283; June 15; v. 275; p. 444.
Sandstrom, Theodore, Indianapolis, Ind. Trailer for motor-driven vehicles. No. 1,343,790; June 15; v. 275; p. 544.
Sang, Charley, Castroville, Calif. Potato-picker. No. 1,343,586; June 15; v. 275; p. 503.
Scarborough, George G., Girdletree, Md. Heating-stove. No. 1,343,645; June 15; v. 275; p. 515.
Scarborough, Henry. (See Dostal, John R., assignor.)
Scarborough, Henry. (See Steere, Clarence E., assignor.)
Scarl, John, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J. Making spark-plug insulators. No. 1,343,686; June 15; v. 275; p. 523.
Schaufelberger, Albert, Paris, France. Circular weft-winding machine. No. 1,343,481; June 15; v. 275; p. 482.
Scheick, Edward, Arlington, N. J. Sheet-guide for folding-machines. No. 1,343,791; June 15; v. 275; p. 544.
Schenk, John, New York, N. Y. Window-shade. No. 1,343,284; June 15; v. 275; p. 444.
Schmidt, Charles J. (See Simpson, E. G., Schmidt, and Carstens.)
Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Means for separating suspended matter from gases. No. 1,343,285; June 15; v. 275; p. 444.
Schmidt, Walter A., and G. C. Roberts, assignors to International Precipitation Company, Los Angeles, Calif. Apparatus for separating suspended particles from gases. No. 1,343,482; June 15; v. 275; p. 482.
Schmitte, Fred, Clayton, N. Y. Shingle. No. 1,343,792; June 15; v. 275; p. 544.
Schneible, Joseph, Chicago, Ill. Dealcoholized fermented beverage. No. 1,343,587; June 15; v. 275; p. 503.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for setting time-fuses. No. 1,343,588; June 15; v. 275; p. 503.
Schneider, John, Elizabeth, N. J. Switch. No. 1,343,793; June 15; v. 275; p. 545.
Scholes, Edmond P., San Jose, assignor of one-fifth to A. Golden, one-fifth to J. Martin, one-fifth to C. Leavell, and one-fifth to W. H. Johnson, Santa Clara county, Calif. Railway-switch. No. 1,343,483; June 15; v. 275; p. 482.
Schurter, Fred H., Pleasant Valley, Iowa. Planter. No. 1,343,286; June 15; v. 275; p. 444.
Schwarz, Elmer H., Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starting and generating system. No. 1,343,409; June 15; v. 275; p. 468.
Scott, Dudley H., Cleveland, Ohio. Ice-tractor. No. 1,343,687; June 15; v. 275; p. 523.
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Throttle-controlling apparatus. No. 1,343,750; June 15; v. 275; p. 536.
Scott-Snell, Charles, Wimbledon, assignor of one-half to D. Anderson, Gravesend, Kent, England. Gas-fire. No. 1,343,484; June 15; v. 275; p. 483.
Scranton, Henry O., Jeanerette, La. Topping and stripping machine. No. 1,343,589; June 15; v. 275; p. 504.
Scullin Steel Co. (See Doerr, Harry E., assignor.)
Seabold, Walter G., assignor to Illinois Glass Company, Alton, Ill. Carboy-case. No. 1,343,340; June 15; v. 275; p. 455.
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Seneca Camera Mfg. Co. (See Goddard, Joseph, assignor.)
Serrell, John J. (See Smith, R. A., and Serrell.)

Sevczov, Georgi, Ralphton, Pa. Revolving vending-booth. No. 1,343,794; June 15; v. 275; p. 545.

Shackelford, Stanley H., Washington, D. C. Safety-zone indicator. No. 1,343,524; June 15; v. 275; p. 491.

Shafer, Frank B., Northville, Mich., assignor, by mesne assignments, to J. A. Kelly, Chicago, Ill. Chemical-closet. No. 1,343,287; June 15; v. 275; p. 444.

Shamberg, Herbert D., New York, N. Y. Manufacture of power plants. No. 1,343,485; June 15; v. 275; p. 483.

Sharar, Fred H., Williamsport, Pa. Valve-adjuster. No. 1,343,525; June 15; v. 275; p. 491.

Shea, John J., Hartford, Conn., assignor to The Hartford Rubber Works Company. Treating vulcanizable plastics. No. 1,343,377; June 15; v. 275; p. 462.

Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Collecting and stapling mechanism. No. 1,343,231; June 15; v. 275; p. 435.

Shongo, Daniel E., Lake Katrine, N. Y. Refrigerator or like receptacle. No. 1,343,688; June 15; v. 275; p. 523.

Siemens & Halske, A. G. (See Grabe, Georg, assignor.)

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,343,232; June 15; v. 275; p. 435.

Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable V-block and the like for magnetic chucks. No. 1,343,751; June 15; v. 275; p. 536.

Simpson, Emory G., C. J. Schmidt, and F. P. Carstens, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window-lifting apparatus. No. 1,343,410; June 15; v. 275; p. 468.

Skelton, William S., Evansville, Ind. Exhibitor. No. 1,343,646; June 15; v. 275; p. 515.

Skinner, Fred A. C., St. Louis, Mo. Air-heating furnace. No. 1,343,752; June 15; v. 275; p. 536.

Slocum, Albert, Milwaukee, Wis. Apparatus for sizing and shaping hats and the like. No. 1,343,887; June 15; v. 275; p. 564.

Slocum, George E., Cleveland, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for electric motors. No. 1,343,411; June 15; v. 275; p. 469.

Sloper, Thomas, Devizes, England. Beaded strip of metal and rolling same. No. 1,343,753; June 15; v. 275; p. 537.

Small, Kenneth L., New York, N. Y., assignor to G. T. Horton, Chicago, Ill. Tank. No. 1,343,412; June 15; v. 275; p. 469.

Smith, A. O., Corporation. (See Adams, J. L., Jr., and Welch, assignors.)

Smith, Eric M., Keynsham, near Bristol, and A. W. Winsall, Keynsham, England. Chuck for holding drills, reamers, and the like. No. 1,343,795; June 15; v. 275; p. 545.

Smith, Frederick C., Marion, Ohio. Foot-throttle-controlling mechanism. No. 1,343,378; June 15; v. 275; p. 462.

Smith, Herbert M., Buffalo, N. Y. Tire-support. No. 1,343,526; June 15; v. 275; p. 491.

Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Lamp-dimming socket-switch. No. 1,343,689; June 15; v. 275; p. 524.

Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Heat-dissipating socket-switch. No. 1,343,690; June 15; v. 275; p. 524.

Smith, Reuben S., Milwaukee, Wis. Making curved flanged bars. No. 1,343,647; June 15; v. 275; p. 515.

Smith, Reuben S., Milwaukee, Wis. Magnetic feeding device for flanging-presses. No. 1,343,648; June 15; v. 275; p. 516.

Smith, Robert A., Mahwah, and J. J. Serrell, Elizabeth, assignors to Smith & Serrell, Mahwah, N. J. Flexible coupling device. No. 1,343,413; June 15; v. 275; p. 469.

Smith & Serrell. (See Smith, R. A., and Serrell, assignors.)

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tools. No. 1,343,649; June 15; v. 275; p. 516.

Smith, Wilson G., *et al.* (See Spencer, William H., assignor.)

Smock, Harold E. (See Lewis, C. A., and Smock.)

Snyder, George. (See MacBryde, Louis E., assignor.)

Snyder, Lloyd E., assignor to Eastman Kodak Company, Rochester, N. Y. Film-pack. No. 1,343,590; June 15; v. 275; p. 504.

Snyder, William W., Cohoes, N. Y. Vehicle-wheel truck. No. 1,343,650; June 15; v. 275; p. 516.

Societa Anonima Italiana Gio. Ansaldo & C. (See Locarni, Vittorio, assignor.)

Societe Anonyme des Anciens Etablissements C. & E. Chapal Freres & Cie. (See Dickerson, Malcolm, assignor.)

Sodemann, Christian W. G., St. Louis, Mo. Radiator shield. No. 1,343,414; June 15; v. 275; p. 469.

Sontheimer, John, Lincoln, Nebr. Pencil-sharpener. No. 1,343,796; June 15; v. 275; p. 545.

Sparks, William, Jackson, Mich. Vacuum-tank. No. 1,343,591; June 15; v. 275; p. 504.

Spencer, William H., assignor of one-third to P. O'Neill and one-third to W. G. Smith, Buffalo, N. Y. Spreader for rope-making. No. 1,343,854; June 15; v. 275; p. 557

Spoden, Henry J., and J. B. Welsh, St. Cloud, Minn. Trolley. No. 1,343,592; June 15; v. 275; p. 504.

Sprague, Frank D., and P. W. Allison, New York, N. Y. Delay-action fuse. No. 1,343,415; June 15; v. 275; p. 469.

Stacke, Paul F., Jersey City, N. J. Sliding door. No. 1,343,416; June 15; v. 275; p. 470.

Stafford, Rogers T., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Display-card. No. 1,343,651; June 15; v. 275; p. 516.

Stanbrough, William M., Newburgh, N. Y. Dental articulator. No. 1,343,691; June 15; v. 275; p. 524.

Standard Engineering Company. (See Scott, Lewis L., assignor.)

Standard Oil Company, The. (See Humphreys, R. E., and Burton, assignors.)

Stander, Jacob, Brooklyn, N. Y. Resilient tire and filling therefor. No. 1,343,233; June 15; v. 275; p. 435.

Standish, John F., Winthrop, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Finishing-machine. No. 1,343,379; June 15; v. 275; p. 463.

Stark, John R., assignor to Owens-Stark Manufacturing Company, Nashville, Tenn. Adjustable bed. No. 1,343,593; June 15; v. 275; p. 504.

Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Feeder for can-filling machines. No. 1,343,417; June 15; v. 275; p. 470.

Stern, Adolf, Chicago, Ill. Socket-wrench. No. 1,343,692; June 15; v. 275; p. 525.

Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Floor construction. No. 1,343,234; June 15; v. 275; p. 435.

Stevens, Howard M., Indianapolis, Ind. Armor for inner tubes. No. 1,343,418; June 15; v. 275; p. 470.

Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)

Stoelzel, Paul, Adams, Mass. Copy-book holder. No. 1,343,527; June 15; v. 275; p. 491.

Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Philadelphia, Pa. Air or moisture proof package. No. 1,343,235; June 15; v. 275; p. 435.

Stokes & Smith Company. (See Buswell, Walter, assignor.)

Stokes & Smith Company. (See Reifsnyder, J. D., and Weightman, assignors.)

Stokes & Smith Company. (See Stokes, John S., assignor.)

Stoll, Sherm G. (See Costelloe, C., and Stoll.)

Stolle, Georg P. E., Kiel, Germany. Producing artificial respiration. No. 1,343,486; June 15; v. 275; p. 483.

Stolzenburg, Christian C., Elyria, Ohio. Cushion-heel. No. 1,343,528; June 15; v. 275; p. 492.

Stott, Oswald, Birmingham, and E. R. Jones, Stourbridge, England. Aeration of sewage and other impure liquids. No. 1,343,797; June 15; v. 275; p. 546.

Strawn, Herman M., Chico, Calif. Wood-handling device. No. 1,343,288; June 15; v. 275; p. 443.

Stubblebine, Raymond F., assignor to Hale & Kilburn Corporation, Philadelphia, Pa. Car-seat. No. 1,343,594; June 15; v. 275; p. 505.

Stukenborg, Frederick W. (See Stukenborg, Louis C., assignor.)

Stukenborg, Louis C., assignor to F. W. Stoukenborg, Chicago, Ill. Tubing. No. 1,343,236; June 15; v. 275; p. 436.

Suchy, Frank C., San Antonio, Tex. Staple-setter. No. 1,343,289; June 15; v. 275; p. 445.

Suchy, Frank C., San Antonio, Tex. Tag-threading machine. No. 1,343,290; June 15; v. 275; p. 445.

Sutherland, Forrest A. (See Downing, S. J., and Sutherland.)

Sutton, Birt, Dover, N. J. Direction-indicator for automobiles. No. 1,343,529; June 15; v. 275; p. 492.

Swift, George W., Jr., Bordentown, N. J. Variable automatic control mechanism. No. 1,343,487; June 15; v. 275; p. 483.

Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Mailing sheet or blank. No. 1,343,419; June 15; v. 275; p. 470.

Sypho-Chemical Sprinkler Corporation. (See Hamilton, John R., assignor.)

Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.

Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)

Takato, Tomokichi, *et al.* (See Toda, Tomokichi, assignor.)

Tallman, Albert R., Nashville, Tenn. Gas-cock. No. 1,343,530; June 15; v. 275; p. 492.

Taylor, Charles H., Toronto, Ontario, Canada. Mechanical piano-player. No. 1,343,237; June 15; v. 275; p. 436.

Taylor, Robert A., Cincinnati, Ohio. Carton and blank therefor. No. 1,343,420; June 15; v. 275; p. 470.

Taylor, Russell E., New York, N. Y. Unitary yarn device and making same. No. 1,343,238; June 15; v. 275; p. 436.

Tennyson, Alexander C., Alexandria, La. Automobile-cranker. No. 1,343,531; June 15; v. 275; p. 492.

Ternsted Manufacturing Company. (See Simpson, E. G., Schmidt, and Carstens, assignors.)

Terry, Edgar J., St. John, New Brunswick, Canada. Ball-cock for water-closet tanks. No. 1,343,421; June 15; v. 275; p. 470.

Test, Ellis W., Michigan City, Ind. Detachable roof. No. 1,343,291; June 15; v. 275; p. 445.

Thayer, Rena W., Springfield, Mass. Attachment for barrettes. No. 1,343,239; June 15; v. 275; p. 436.

Thomas, Carl C., Baltimore, Md. Internal-combustion-engine pump. No. 1,343,693; June 15; v. 275; p. 525.

Thomson, Robert A., Berkeley, and G. Alvis, Oakland, Calif. Doll. No. 1,343,422; June 15; v. 275; p. 471.

Thompson, Robert A., and L. P. Morris, assignors to International Manufacturing Company of Texas, Dallas, Tex. Churning device. No. 1,343,532; June 15; v. 275; p. 493.

Thunberg, Frank. (See Anderson, Charles E., assignor.)

Tiffany, Louis L., Roslindale, Mass., assignor of one-half to T. McGoldrick, Lincoln, N. H. Incorrect-position-indicator for pianos. No. 1,343,595; June 15; v. 275; p. 505.

Titan Co., A/S. (See Goldschmidt, Victor M., assignor.)

Titan Co., A/S. (See Nielsen, R., and Goldschmidt, assignors.)

Titan Co. A/S. of Norway. (See Farup, Peder, assignor.)

Toda, Tomokichi, Kaijo, Korea, assignor of one-half to T. Takato, Nagoya City, Japan, and one-half to H. Gunji, Iwate, Japan. Pin-anchor escapement for timepieces. No. 1,343,798; June 15; v. 275; p. 546.

Todd, John H., Cleveland, Ohio. Laundry-checking device. No. 1,343,423; June 15; v. 275; p. 471.

Topping Manufacturing Co., The. (See Price, Thomas V., assignor.)

Torrens, John A., Muckamore, Ireland. Water-valve for carbureters and vaporizers of internal-combustion engines. No. 1,343,488; June 15; v. 275; p. 483.

Townsend, Arthur J., Canton, Ohio. Rolling-mill repeater. No. 1,343,652; June 15; v. 275; p. 516.

Townsend, Charles E., Norfolk, Va. Pocket toothbrush and dentifrice holder. No. 1,343,240; June 15; v. 275; p. 436.

Trbojevich, Nikola. (See Olson, C. G., and Trbojevich.)

Trefren, Frank E., Butte Falls, Oreg. Lumber-piling device. No. 1,343,799; June 15; v. 275; p. 546.

Tremont Products Company. (See Smith, Raymond D., assignor.)

Trimm, Leslie E., Brooklyn, N. Y. Tent and hammock. No. 1,343,800; June 15; v. 275; p. 546.

Troja, Louis F., assignor of one-half to G. R. Ludolph, Kansas City, Mo. Shipping-tag. (Reissue.) No. 14,883; June 15; v. 275; p. 565.

Trout, Harry M., Hamilton, Ohio. Hog-holding device. No. 1,343,596; June 15; v. 275; p. 505.

Truscon Steel Company. (See Plumb, Roy A., assignor.)

Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,343,597; June 15; v. 275; p. 505.

Turner, Alonzo G., Hanksville, Utah. Non-cloggable self-cleaning screen. No. 1,343,292; June 15; v. 275; p. 445.

Turner, James M., Florence, Ala. Store construction. No. 1,343,801; June 15; v. 275; p. 546.

Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,343,694; June 15; v. 275; p. 525.

Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Reversible brake-valve handle. No. 1,343,695; June 15; v. 275; p. 525.

Tyler, Lucius S., Boston, Mass. Picture-hook. No. 1,343,855; June 15; v. 275; p. 557.

U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)

Underwood Typewriter Company. (See Horn, Nicholas.)

Union Switch & Signal Company, The. (See Harrington, Clinton O., assignor.)

United Shoe Machinery Corporation. (See Bilello, Thomas W., assignor.)

United Shoe Machinery Corporation. (See Standish, John F., assignor.)

United States Envelope Company. (See Swift, Willard E., assignor.)

Universal Grinding Machine Company. (See Robertson, A. C., and Volk, assignors.)

Universal Oxygen Company. (See Mueller, Rudolph J. J., assignor.)

Unsworth, John, New York, N. Y. Slide. No. 1,343,598; June 15; v. 275; p. 505.

Urie, David A., Chicago, Ill. Receptacle-filling machine. No. 1,343,696. June 15; v. 275; p. 525.

Urshe, Pasquale, Ellensburg, Wash. Ballast-surfacer. No. 1,343,533; June 15; v. 275; p. 493.

Van Iterson, Frederick K. T. (See Kuypers, Gerard, assignor.)

Van Viersen, Jacob H., The Hague, Netherlands. Bicycle-lock. No. 1,343,856; June 15; v. 275; p. 558.

Vest, Robert A., Pontotoc, Tex. Seed-selecting mechanism. No. 1,343,802; June 15; v. 275; p. 546.

Volk, Frank. (See Robertson, A. C., and Volk.)

Von Kando, Kalman, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suspension of liquid-containers on railway-vehicles. No. 1,343,241; June 15; v. 275; p. 436.

Voss, Johann H. H., Mount Vernon, N. Y. Automatic ring-plate valve. No. 1,343,534; June 15; v. 275; p. 493.

Wahlert, Henry A., assignor to The American Brake Company, St. Louis, Mo. Hand-brake. No. 1,343,697; June 15; v. 275; p. 526.

Waite, Guy B., New York, N. Y. Antiskid device for tires. No. 1,343,293; June 15; v. 275; p. 445.

Waite, Guy B., New York, N. Y. Tread-block for tires. No. 1,343,294; June 15; v. 275; p. 446.

Waite, Harry F., New York, N. Y. X-ray system. No. 1,343,599; June 15; v. 275; p. 506.

Wakefield, Richard E. B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding-tool. No. 1,343,242. June 15; v. 275; p. 437.

Wall, James E. (See Hart, G. M., and Wall.)

Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Footplate for electric locomotives. No. 1,343,698; June 15; v. 275; p. 526.

Waller, Robert, Pittsburgh, Pa. Automatic train-stop. No. 1,343,857; June 15; v. 275; p. 558.

Waltman, Walter M., West New Brighton, assignor to R. S. Hart, New York, N. Y. Pipe connection for junction-boxes and the like. No. 1,343,877; June 15; v. 275; p. 562.

Warner, Martin, and C. Whetstone, Akron, Ohio. Window-shade attachment. No. 1,343,859; June 15; v. 275; p. 558.

Waterbury Clock Co. (See Linden, John P., assignor.)

Watson, Annie H., executrix. (See Watson, Thomas T. and J. W.)

Watson, John W. (See Watson, Thomas T. and J. W.)

Watson, Thomas T., deceased, and J. W. Watson, Wayne, Pa.; A. H. Watson, executrix. Mileage-indicator for tires. No. 1,343,535; June 15; v. 275; p. 493.

Webber, William P., Brooklyn, N. Y. Thermal circuit-closer. No. 1,343,803; June 15; v. 275; p. 547.

Weeks, Walter S., Berkeley, Calif. Compressor apparatus. No. 1,343,536; June 15; v. 275; p. 493.

Wegener, William E., Chicago Heights, Ill. Sheet-gripper. No. 1,343,537; June 15; v. 275; p. 493.

Welda, Harry, Highland Park, N. J., assignor to The India Rubber Company. Hard-rubber battery-jar and making same. No. 1,343,380; June 15; v. 275; p. 463.

Weightman, William A. (See Reifsnyder, J. D., and Weightman.)

Wein, Jens D., assignor to Wein Manufacturing Corporation, Troy, N. Y. Internal-combustion engine. No. 1,343,858; June 15; v. 275; p. 558.

Wein Manufacturing Corporation. (See, Wein, Jens D., assignor.)

Welch, Horace H. (See Adams, J. L., Jr., and Welch.)

Wells, Frederick L., Rutland, Vt. Automobile-lock. No. 1,343,424; June 15; v. 275; p. 471.

Welsh, James B. (See Spoden, H. J., and Welsh.)

West, Elbert L., Somerville, and J. West, assignors to Premier Register Table Company, Boston, Mass. Printer's table. No. 1,343,600; June 15; v. 275; p. 506.

West, James. (See West, Elbert L. and J.)

Western Electric Company. (See Beck, William O., assignor.)

Western Electric Company Incorporated. (See Conway, Roy D., assignor.)

Western Electric Company Incorporated. (See Field, Joseph C., assignor.)

Western Electric Company. (See Heising, Raymond A., assignor.)

Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)

Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)

Westinghouse Electric and Manufacturing Company. (See Allcutt, Chester T., assignor.)

Westinghouse Electric and Manufacturing Company. (See Brown, James M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Candy, Albert M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)

Westinghouse Electric and Manufacturing Company. (See Eschholz, O. H., and Fahnoe, assignors.)

Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Fahnoe, Hans, assignor.)

Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)

Westinghouse Electric and Manufacturing Company. (See Huey, George W., assignor.)

Westinghouse Electric and Manufacturing Company. (See Langley, Jesse R., assignor.)

Westinghouse Electric & Manufacturing Company. (See McClain, John R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Mills, Chester R., assignor.)

Westinghouse Electric and Manufacturing Company. (See Simmon, Karl A., assignor.)

Westinghouse Electric and Manufacturing Company. (See Slocum, George E., assignor.)

Westinghouse Electric & Manufacturing Company. (See von Kando, Kalman, assignor.)

Westinghouse Electric & Manufacturing Company. (See Wakefield, Richard E. B., assignor.)

Wheeler, Alfred W., San Francisco, Calif. Double-seaming machine. No. 1,343,538; June 15; v. 275; p. 494.

Whetstone, Charles. (See Warner, M., and Whetstone.)
Whisler, Chauncy P., assignor to Miller Rubber Company, Akron, Ohio. Mold. No. 1,343,425; June 15; v. 275; p. 471.
White, William W., New York, N. Y. Calendar. No. 1,343,601; June 15; v. 275; p. 506.
Whitin Machine Works. (See Boyd, James H., assignor.)
Wiegand, Henry M. (See Perry, Edward T., assignor.)
Wiesehan, George W., Cleveland, Ohio. Cooking-cabinet. No. 1,343,539; June 15; v. 275; p. 494.
Wild, James E., and W. W. Caldwell, Fall River, Mass., assignors to The American Thread Company, Jersey City, N. J. Means for electrically controlling skein-mercerizing machines. No. 1,343,804; June 15; v. 275; p. 547.
Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Spacer-block for refractory arches. No. 1,343,243; June 15; v. 275; p. 437.
Williams, Charles E., Pittsburgh, Pa. Tire. No. 1,343,860; June 15; v. 275; p. 559.
Williams, Charles E., Pittsburgh, Pa. Tire. No. 1,343,861; June 15; v. 275; p. 559.
Williams, Edwin C. (See Gerke, J. and N., and Williams.)
Williams, Jacob D. W., Tabor, N. C. Device for teaching penmanship. No. 1,343,244; June 15; v. 275; p. 437.
Williams, Roy W., Utica, S. D. Floor-lifting device. No. 1,343,862; June 15; v. 275; p. 559.
Williams, Henry A., Kinston, N. C. Heel attachment for shoes. No. 1,343,602; June 15; v. 275; p. 506.
Williams, John H., Stockton, Calif. Grease-retainer for axles of motor-vehicles. No. 1,343,603; June 15; v. 275; p. 506.
Willsie, Henry E., Darien, Conn., assignor to The American Refrigeration Company. Refrigerating-machine. (Reissue.) No. 14,884; June 15; v. 275; p. 565.
Willsie, Henry E., Darien, Conn., assignor to The American Refrigeration Company. Ice-machine. (Reissue.) No. 14,885; June 15; v. 275; p. 565.
Wilson, Catherine V., Toledo, Ohio. Flatiron-rest. No. 1,343,699; June 15; v. 275; p. 526.
Winn, Warner A., Clarksville, Tenn. Rule for cutting roof-rafters. No. 1,343,604; June 15; v. 275; p. 507.
Winsall, Albert W. (See Smith, E. M., and Winsall.)
Winslow, Clark J., Correll, Minn. Rail-joint. No. 1,343,605; June 15; v. 275; p. 507.
Wirebounds Patents Company. (See Healy, William P., assignor.)
Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear. No. 1,343,295; June 15; v. 275; p. 446.
Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear. No. 1,343,296; June 15; v. 275; p. 446.
Wolf, George D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. System for interconnecting manual and automatic telephone-exchanges. No. 1,343,489; June 15; v. 275; p. 484.
Woodland, Cecil R. and R., Liverpool, England. Apparatus for teaching codes as used in telegraphy. No. 1,343,754; June 15; v. 275; p. 537.
Woodland, Reginald. (See Woodland, Cecil R. and R.)
Woodward, John J., assignor of one-half to J. Colesby, Birmingham, England. Spanner. No. 1,343,882; June 15; v. 275; p. 563.
Woodworth, Harry A. (See Kepler, Darrell S., assignor.)
Woods, Joseph P., Washington, D. C. Means employed in the classification of names, &c. No. 1,343,755; June 15; v. 275; p. 537.
Woolley, Isaiah W. (See Berryhill, S. A., and Woolley.)
Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,343,297; June 15; v. 275; p. 446.
Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,343,298; June 15; v. 275; p. 446.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Casing-head top. No. 1,343,426; June 15; v. 275; p. 471.
Wright, James, Liverpool, and J. Wright, Warrington, England. Tanning machinery. No. 1,343,756; June 15; v. 275; p. 537.
Wright, John. (See Wright, James and J.)
Yamada, Yoshimori, San Francisco, Calif. Photographic-plate holder. No. 1,343,653; June 15; v. 275; p. 516.
Young, Charles, York, Me. Holding device for one-armed persons. No. 1,343,606; June 15; v. 275; p. 507.
Zebrock, Louis S., Jr., Hastings, N. Y. Pen and pencil attachment. No. 1,343,245; June 15; v. 275; p. 437.
Zetzman, William, Post, Tex. Weeding device. No. 1,343,805; June 15; v. 275; p. 547.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A-Z Company, The. (See Hammer, Laurence G., assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Bauer, Martha V., Washington, D. C. Friendship-token. No. 55,447; June 15; v. 275; p. 565.
Belpedio, Jobby, Bridgeport, Conn. Talking-machine cabinet. No. 55,448; June 15; v. 275; p. 566.
Biflex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
Bitterman, Simon, *et al.* (See John, Charles E., assignor.)
Borris, Morris, Brooklyn, N. Y. Tone-arm. No. 55,449; June 15; v. 275; p. 566.
Boyle Needle Company, The. (See Carlson, Gustav A., assignor.)
Carlson, Gustav A., assignor to the Boyle Needle Company, Chicago, Ill. Can-opener. No. 55,450; June 15; v. 275; p. 566.
Carraine, Eugene, Philadelphia, Pa. Handbag. No. 55,451; June 15; v. 275; p. 566.
Chase, Winslow W., Washington, D. C. Therapeutic vacuum apparatus. No. 55,452; June 15; v. 275; p. 566.
Christopher, Arthur B., assignor to Christopher Engineering Company, St. Louis, Mo. Child's rocker. No. 55,453; June 15; v. 275; p. 566.
Christopher Engineering Company. (See Christopher, Arthur B., assignor.)
Cross, Harry E., Rockton, Ill. Automobile-frame. No. 55,454; June 15; v. 275; p. 567.
Daniels, Lee E. (See Maechler, Walter, assignor.)
Day, Alfred, Philadelphia, Pa. Checker-board. No. 55,455; June 15; v. 275; p. 565.
Eldon, Charles H., Williamsport, Pa. Steering-wheel for vehicles. No. 55,456; June 15; v. 275; p. 567.
Evans, H. C., & Company. (See Harris, Maurice E., assignor.)
Fitz Gerald, Harold G., Los Angeles, Calif. Reflector. No. 55,457; June 15; v. 275; p. 567.
Freed, Henry C., Philadelphia, Pa. Collar-stud. No. 55,458; June 15; v. 275; p. 567.
Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile-tire. No. 55,459; June 15; v. 275; p. 567.
Geigand, Anthony W. and J. J., Buffalo, N. Y. Nut-cracker. No. 55,460; June 15; v. 275; p. 568.
Geigand, Joseph J. (See Geigand, Anthony W. and J. J.)
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Gruenberg, Raoul J., San Francisco, Calif. Automobile-body. No. 55,461; June 15; v. 275; p. 568.
Hamilton, Harry G., Youngstown, Ohio. Artificial bait. No. 55,462; June 15; v. 275; p. 568.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Frame member for automatic sprinkler-heads or similar articles. No. 55,463; June 15; v. 275; p. 568.
Handel, William F., Meriden, Conn., assignor to The Handel Company. Shade for lighting fixtures. No. 55,464; June 15; v. 275; p. 568.
Handel Company, The. (See Handel, William F., assignor.)
Hammer, Laurence G., Brooklyn, N. Y., assignor to The A-Z Company, New York, N. Y. Automobile-radiator core. No. 55,465; June 15; v. 275; p. 569.
Harris, Maurice E., assignor to H. C. Evans & Company, Chicago, Ill. Playing-card. No. 55,466; June 15; v. 275; p. 569.
Harris, Moses A., Westfield, N. J. Reduction-gear base. No. 55,467; June 15; v. 275; p. 569.
Heilig, Luther A., San Diego, Calif. Pair of eyeglasses. No. 55,468; June 15; v. 275; p. 569.
Johanson, Emil G. (See Johnson, Gustaf, assignor.)
Johnson, Charles E., assignor of one-third to S. Bitterman and one-third to W. A. Johnson, Denver, Colo. Carbureter body or casing. No. 55,469; June 15; v. 275; p. 569.
Johnson, Gustaf, assignor to E. G. Johanson, Chicago, Ill. Headlight-lens. No. 55,470; June 15; v. 275; p. 569.
Johnson, William A., *et al.* (See Johnson, Charles E., assignor.)
Johnstone, Russell R., Wauwatosa, Wis. Advertising-sign. No. 55,471; June 15; v. 275; p. 570.
Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Oil-can. No. 55,472; June 15; v. 275; p. 570.
King, William A., Memphis, Tenn. Automobile-radiator. No. 55,473; June 15; v. 275; p. 570.
Koon, William H., Chicago, Ill. Powder-puff. No. 55,474; June 15; v. 275; p. 570.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 55,475; June 15; v. 275; p. 570.
Lorenz, William J., Cleveland, Ohio, assignor to Will & Baumer Company, Syracuse, N. Y. Candelabrum for devotional purposes. Nos. 55,476–8; June 15; v. 275; p. 570.
Luttringhaus, Walter, Maywood, Ill. Berlin kettle. No. 55,480; June 15; v. 275; p. 571.
Luttringhaus, Walter, Maywood, Ill. Preserving-kettle. No. 55,479; June 15; v. 275; p. 571.
McIntyre, Hugh J., and W. J. Wakefield, Winnipeg, Manitoba, Canada. Game-board. No. 55,482; June 15; v. 275; p. 571.

Maechler, Walter, assignor to L. E. Daniels, Chicago, Ill. Meat-tendering implement. No. 55,481; June 15; v. 275; p. 571.
Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)
Morbach, John P. (See Zipp, John, and Morbach.)
Okamuro, Kenjiro, Honolulu, Hawaii. Hook. No 55,483; June 15; v. 275; p. 572.
Pancoast, William G., and W. J. Grotenhuis, Chicago, Ill., assignors to Biflex Products Company, Waukegan, Ill. Automobile-bumper. No. 55,484; June 15; v. 275; p. 575.
Payne, Olney R., Philadelphia, Pa. Toy garage. No. 55,485; June 15; v. 275; p. 572.
Pickop, George B., New Haven, Conn., assignor to The Malleable Iron Fittings Company, Branford, Conn. Spray device. No. 55,486; June 15; v. 275; p. 572.
Rozenske, Harry, Detroit, Mich. Pincer. No. 55,487; June 15; v. 275; p. 572.
Sampson, Samuel, New York, N. Y. Collar-holder. No. 55,488; June 15; v. 275; p. 572.
Shapiro & Aronson Inc. (See Westphal, Gottfried, assignor.)
Shaw, Rolla C., Inglewood, Calif. Wind-deflector. No. 55,489; June 15; v. 275; p. 573.
Sherer, William T., Chicago, Ill. Display-counter. No. 55,490; June 15; v. 275; p. 573.
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Sizaire, Maurice H. L., Park Royal, London, England. Radiator for automobile-vehicles. No. 55,491; June 15; v. 275; p. 573.
Standard Four Tire Company. (See Gabeline, Jacob B., assignor.)
Taylor, George M., Hartford, Conn. Tool-tray. No. 55,492; June 15; v. 275; p. 573.
Wakefield, Walter J. (See McIntyre, H. J., and Wakefield.)
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson Inc., New York, N. Y. Wall-plate for lighting-fixtures. No. 55,493; June 15; v. 275; p. 573.
White, Joseph M., Danville, Ill. Automobile-footboard. No. 55,494; June 15; v. 275; p. 574.
White, William L., Old Orchard, Me. Caster for cruets. No. 55,495; June 15; v. 275; p. 574.
White, William L., Old Orchard, Me. Caster for cruets. No. 55,496; June 15; v. 275; p. 574.
Wigginton, George P., Kalamazoo, Mich. Desk. No. 55,497; June 15; v. 275; p. 574.
Will & Baumer Company. (See Lorenz, William J., assignor.)
Woodbury, Charles P., Kansas City, Mo. Sword hilt and scabbard. No. 55,498; June 15; v. 275; p. 574.
Zipp, John, and J. P. Morbach, Cleveland, Ohio. Score-board. No. 55,499; June 15; v. 275; p. 574.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Allied Machinery Company of America, New York, N. Y. Metal hand-buckets. No. 132,078; June 15; v. 275; p. 615.
American Brewing Co., The, Pekin, Ill. Non-alcoholic, non-cereal beverage. No. 132,079; June 15; v. 275; p. 615.
American Magnesia Products Co., Chicago, Ill. Composition for use as stucco. No. 132,080; June 15; v. 275; p. 615.
American Writing Paper Co., Holyoke, Mass. Writing and printing paper. No. 132,081; June 15; v. 275; p. 615.
Amplex Incorporated, New York, N. Y. Machinery and parts thereof. No. 132,082; June 15; v. 275; p. 615.
Arc-O-Manufacturing Co., Inc. (See Marmon Chicago Company, The, assignor.)
Arom, J., & Company, Inc., New Orleans, La. Coffee. Nos. 132,083–4; June 15; v. 295; p. 615.
Armand Company, The, Des Moines, Iowa. Toilet soaps. No. 132,085; June 15; v. 275; p. 615.
Armstrong, A. J., Co. Inc., New York, N. Y. Hosiery, sweaters, knitted novelties, &c. No. 132,086; June 15; v. 275; p. 615.
Baer, Ludwig, New York, N. Y. Razors. No. 132,087; June 15; v. 275; p. 615.
Bailey, B. F., & Co., New York, N. Y. Bedspreads. No. 132,088; June 15; v. 275; p. 615.
Barbey, John, Reading, Pa. Cereal malt beverage. No. 132,089; June 15; v. 275; p. 615.
Battaglos, Stamatis, Verona, Pa. Fruitless anise-flavored carbonated beverages. No. 132,090; June 15; v. 275; p. 615.
Belcanto Co., Inc., The, New York, N. Y. Phonographs, records, sound-boxes, and needles. Nos. 132,091–2; June 15; v. 275; p. 615.
Bell, John, Hills & Lucas, Limited, London, England. Preparation for cleaning face and hands, feathers and furs, and removing grease-spots. No. 132,093; June 15; v. 275; p. 615.
Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 132,094; June 15; v. 275; p. 615.
Bennett and Aspden Company, Philadelphia, Pa. Pile fabrics. No. 132,095; June 15; v. 275; p. 615.
Benson Brothers, Philadelphia, Pa. Worsted cloth in the piece. No. 132,096; June 15; v. 275; p. 615.
Bethania Mineral Spring Company, Osceola, Wis. Non-alcoholic beverage and syrup for flavoring same. No. 132,097; June 15; v. 275; p. 615.
Bitu-Mo-Lin Products Co., Seattle, Wash. Marine glue or lute. No. 132,098; June 15; v. 275; p. 615.
Blumenthal, Sidney & Co., Inc., New York, N. Y. Pile fabrics in the piece. No. 132,244; June 15; v. 275; p. 620.
Bond Edward W., Portland, Oreg. Window-cleaning composition in brick form. No. 132,099; June 15; v. 275; p. 615.
Buffalo House Wrecking & Salvage Co., Buffalo, N. Y. Ready-mixed paints and varnishes. No. 132,100; June 15; v. 275; p. 615.
Burnham-Munger-Root Dry Goods Co., Kansas City, Mo. All-wool blankets; all-cotton blankets, covered bed-comforts, &c. No. 132,101; June 15; v. 275; p. 615.
Calima Canning Co., Los Angeles, Calif. Canned fruits. No. 132,102; June 15; v. 275; p. 615.
Cannaday, Julius E., Sedalia, Mo. Floral ribbon in the piece. No. 132,103; June 15; v. 275; p. 615.
Cannon, Mary D., Montclair and Bloomfield, N. J. Women's caps. No. 132,104; June 15; v. 275; p. 616.
Celro-Kola Co., Portland, Oreg. Non-intoxicating non-alcoholic maltless fruit-syrup. No. 132,105; June 15; v. 275; p. 616.
Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops. No. 132,106; June 15; v. 275; p. 616.
Central Ohio Paper Company, The, Columbus, Ohio. Printing and writing paper, pamphlets, books, tissue-paper, paper towels, &c. No. 132,107; June 15; v. 275; p. 616.
Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper, box and book cover paper, tissue-paper, &c. No. 132,108; June 15; v. 275; p. 616.
Chain Belt Company, Milwaukee, Wis. Iron and steel castings and forgings. No. 132,109; June 15; v. 275; p. 616.
Charland, Eugene, Montreal, Canada. Solder. No. 132,110; June 15; v. 275; p. 616.
Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. Nos. 132,111–12; June 15; v. 275; p. 616.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 132,113; June 15; v. 275; p. 616.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 132,114; June 15; v. 275; p. 616.
Cincinnati Beverage and Products Co., The, Cincinnati, Ohio. Non-alcoholic maltless beverage. No. 132,115; June 15; v. 275; p. 616.
City Cap Co., St. Louis, Mo. Headwear for men and boys. No. 132,116; June 15; v. 275; p. 616.
Clarendon Refining Company, Clarendon borough, Pa. Lubricating and illuminating oils, gasolene, naphtha, benzin, and paraffin-wax. No. 132,117; June 15; v. 275; p. 616.
Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 132,118; June 15; v. 275; p. 616.
Conlon, Richard T., New York, N. Y. Compounds or powders for cleaning and finishing stone, &c., surfaces. No. 132,119; June 15; v. 275; p. 616.
Cowley, James J., Passaic, N. J. Fuel-oils. No. 132,120; June 15; v. 275; p. 616.
Cousins, J. & T., Co., Brooklyn, N. Y. Boots and shoes. No. 132,121; June 15; v. 275; p. 616.
Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Garden-seed. No. 132,122; June 15; v. 275; p. 616.
Daltex Milk Products Company, Dallas, Tex. Milk, buttermilk, and cream. No. 132,123; June 15; v. 275; p. 616.
Delaware Electric & Supply Co., Wilmington, Del. Bathtubs, lavatories, water-closets, &c. No. 132,124; June 15; v. 275; p. 616.
Dessauer, Earl H., Omaha, Nebr. Soda-water and non-alcoholic maltless cereal syrups. No. 132,125; June 15; v. 275; p. 616
Deutsche Conservierungsgesellschaft mit beschrankter Haftung, Marienfelde, near Berlin, Germany. Pitch for use in breweries. No. 132,126; June 15; v. 275; p. 616
Dewey, H. S. & Sons Co., New York, N. Y. Non-intoxicating non-cereal maltless beverage. No. 132,127; June 15; v. 275; p. 616.
Dickson, William T., Glasgow, Scotland. Silk piece goods. No. 132,128; June 15; v. 275; p. 616.
Dismuke, Ed. E., Mineral Wells, Tex. Concentrated natural mineral-well water. No. 132,129; June 15; v. 275; p. 616.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Belt-dressing. No. 132,130; June 15; v. 275; p. 616.
Domestic Electric Company, Cleveland, Ohio. Electric motors, motor frames and parts. No. 132,131; June 15; v. 275; p. 616.
Duluth Floral Company, Duluth, Minn. Seeds, shrubbery, cut flowers, bulbs, plants, and other nursery stock. No. 132,132; June 15; v. 275; p. 616.
E. Gal, Sociedad en Comandita, Madrid, Spain. Toilet extracts. No. 132,077; June 15; v. 275; p. 615.
E. Gal. Sociedad en Comandita, Madrid, Spain. Toilet lotions. No. 132,076; June 15; v. 275; p. 615.
Eatsum Products Corporation, Orlando, Fla. Fruit preserves, table-syrup, orange peel. No. 132,133; June 15; v. 275; p. 616.
Eisemann Magneto Corporation, Brooklyn, N. Y. Manually and mechanically operated impulse-starters. No. 132,134; June 15; v. 275; p. 616.
Elgin National Soap Company, Elgin, Ill. Powdered soap. No. 132,135; June 15; v. 275; p. 617.
Elm Undergarment Co., New York, N. Y. Corset-covers, envelop-chemises, nightgowns, petticoats, and bloomers. No. 132,266; June 15; v. 275; p. 621.
Emerson Shirt Co., Inc., New York, N. Y. Men's dress and negligée shirts. No. 132,136; June 15; v. 275; p. 617.
Empire Paper Co., Chicago, Ill. Ledger-paper. No. 132,137; June 15; v. 275; p. 617.
Evans, Thomas M., East Providence, R. I. Rubber heels No. 132,138; June 15; v. 275; p. 617.
Fansteel Products Company, Inc., North Chicago, Ill. Metallic deoxidizers and scavengers for use in casting metals. No. 132,139; June 15; v. 275; p. 617.
Fave, Emilio D., Syracuse, N. Y. Non-alcoholic maltless beverages sold as soft drinks. No. 132,140; June 15; v. 275; p. 617.
Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 132,141; June 15; v. 275; p. 617.
Fibre Products Co., Boston, Mass. Rubber or composition soles, heels, and taps. No. 132,142; June 15; v. 275; p. 617.
Finery Hosiery Corporation, New York, N. Y. Hosiery. No. 132,143; June 15; v. 275; p. 617.
Food Appliances Manufacturing Corporation, Rochester, N. Y. Butter-serving machines. No. 132,144; June 15; v. 275; p. 617
Fowler, Charles A., Chicago, Ill. Syrup for making non-alcoholic non-cereal maltless beverages. No. 132,145; June 15; v. 275; p. 617.
Garfield-Stahl Company, New York, N. Y. Laces in the piece. No. 132,146; June 15; v. 275; p. 617.
George, Maude S., St. Louis, Mo. Sanitary baby-pants. No. 132,147; June 15; v. 275; p. 617.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 132,148; June 15; v. 275; p. 617.
Gill Brothers Company, Steubenville, Ohio. Lamp-chimneys, lantern-globes, &c. No. 132,149; June 15; v. 275; p. 617.
Gillette Safety Razor Company, Boston, Mass. Safety-razors. Nos. 132,150–2; June 15; v. 275; p. 617.
Globe Grocery Stores, Inc., New York, N. Y. Machine-oil. No. 132,154; June 15; v. 275; p. 617.
Globe Grocery Stores, Inc., New York, N. Y. Root-beer extract, orange, wild-cherry, and grape phosphates. No. 132,153; June 15; v. 275; p. 617.
Gloversville Welt Co., Gloversville, N. Y. Babies' washable kid-leather shoes. No. 132,155; June 15; v. 275; p. 617.
Goldsmith, Stern & Co. (See Stern Brothers & Company, assignors.)
Gorden, Allen G., Blytheville, Ark. Dry-cleaner for clothes. No. 132,156; June 15; v. 275; p. 617.
Gruen, D., Sons and Company, The, Cincinnati, Ohio. Watches. No. 132,157; June 15; v. 275; p. 617.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods of silk. No. 132,158; June 15; v. 275; p. 617.
Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. No. 132,159; June 15; v. 275; p. 617.
Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. No. 132,160; June 15; v. 275; p. 617.
Hammerman, Jacob K., Chicago, Ill. Children's muslin gowns. No. 132,161; June 15; v. 275; p. 617.
Harder, Francis C., Plainfield, N. J. Cotton piece goods. No. 132,163; June 15; v. 275; p. 617.
Hart, L. H. C., St. Louis, Mo. White lead, zinc, dry red lead and colors in oil. No. 132,164; June 15; v. 275; p. 617.
Hart, Walter H. Grease for stopcocks and the like. No. 132,165; June 15; v. 275; p. 617.
Hinck, Otto H., New York, N. Y. Cotton piece goods. Nos. 132,166–9; June 15; v. 275; pp. 617–18.
Hoover Suction Sweeper Company, North Canton, Ohio. Electric suction-sweepers. No. 132,170; June 15; v. 275; p. 618.
Houghton, E. F., & Co., Philadelphia, Pa. Oil rust-preventive. No. 132,171; June 15; v. 275; p. 618.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 132,172; June 15; v. 275; p. 618.
Hurd, George B. & Co., New York, N. Y. Writing-paper and envelops. No. 132,173; June 15; v. 275; p. 618.
Hygeia Beverage Co., The Natick, Mass. Non-alcoholic, non-cereal maltless beverages. No. 142,174; June 15; v. 275; p. 618.
Hyman, Henry, & Co. Inc., New York, N. Y. Portable flash-lights and flash-light cases. No. 132,175; June 15; v. 275; p. 618.
I. C. T. Products Co., assignor to I. C. T. Products Co., Indianapolis, Ind. Concentrated tea syrup for making tea. No. 132,176; June 15; v. 275; p. 618.
Indiana Portland Cement Company, Indianapolis, Ind. Portland cement. No. 132,177; June 15; v. 275; p. 618.
International Cork Company, Brooklyn, N. Y. Composition floor-tiles of linoleum or other material, cork carpet, &c. No. 132,178; June 15; v. 275; p. 618.
International Milling Company, New Prague, Minn. Wheat-flour. No. 132,179; June 15; v. 275; p. 618.
Iowa Skirt Manufacturing Company, The, Waterloo, Iowa. Aprons, house-dresses, petticoats, and children's garments. No. 132,180; June 15; v. 275; p. 618.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 132,181; June 15; v. 275; p. 618.
Johnson, George T., Co., The, Boston, Mass. Toilet-paper. No. 132,182; June 15; v. 275; p. 618.
Kennesaw-Hosiery Company, The, Marietta, Ga. Men's hosiery. No. 132,183; June 15; v. 275; p. 618.
Kurz Bros. Inc., New York, N. Y. Ladies' hats. No. 132,184; June 15; v. 275; p. 618.
La Pierre Manufacturing Co., Newark, N. J. Concentrated writing-ink. No. 132,185; June 15; v. 275; p. 618.
Landers, Frary & Clark, New Britain, Conn. Cooking and kitchen utensils of aluminum. No. 132,186; June 15; v. 275; p. 618.
Large & Roomy Overall Mfg. Co., The. Overalls and pants. No. 132,187; June 15; v. 275; p. 618.
Laserson, Frederick M., New York, N. Y. Electrically-operated cloth-cutters and cloth-cutting machines. No. 132,188; June 15; v. 275; p. 618.
Le Blond, R. K., Machine Tool Company, The. Lathes. No. 132,189; June 15; v. 275; p. 618.
Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Silks in the piece. No. 132,190; June 15; v. 275; p. 618.
Loos & Dilworth, Philadelphia, Pa. Core-oils. No. 132,191; June 15; v. 275; p. 618.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 132,192; June 15; v. 275; p. 618.
Loose-Wiles Biscuit Company, New York, N. Y. Cakes, wafers, and crackers or biscuits. No. 132,193; June 15; v. 275; p. 618.
Lord & Taylor, New York, N. Y. Synthetic pearls. No. 132,194; June 15; v. 275; p. 618.
Machine Appliance Corporation, Brooklyn, N. Y. Articles of stationery, eyelets for fastening purposes, such as may be used for binding paper, &c. No. 132,195; June 15; v. 275; p. 618.
Maddas, Frank A., Jeannette, Pa. Malt beverage containing less than one-half of one per cent. alcohol. No. 132,196; June 15; v. 275; p. 618.
Marmon Chicago Company, The, Chicago, Ill., assignor to The Arc-O-Manufacturing Co, Inc., of Chicago, Ill. Spark-plugs. No. 132,197; June 15; v. 275; p. 618.
Mennel Milling Company, The, Toledo, Ohio. Self-rising wheat-flour. No. 132,198; June 15; v. 275; p. 618.
Merrill-Hamilton Company, Kansas City, Mo. Lubricating-paste. No. 132,199; June 15; v. 275; p. 618.
Meyer, John H., Silk Mills Co., Northampton borough, Pa., and New York, N. Y. Silk piece goods. Nos. 132,200–1; June 15; v. 275; p. 618.
Michigan Motor Garment Co., Greenville, Mich. Clothing—namely, overalls and jackets for men, youths, and children. No. 132,202; June 15; v. 275; p. 619.
Middletown Accessory-Laboratories Company, The, Middletown, Ohio. Tire-filling compound. No. 132,203; June 15; v. 275; p. 619.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 132,204; June 15; v. 275; p. 619.
Miller, Daniel, Company, Baltimore, Md. Cotton piece goods. No. 132,205; June 15; v. 275; p. 619.
Miller Rubber Co., The, Akron, Ohio. Rubber sponges. No. 132,206; June 15; v. 275; p. 619.
Minwax Company, Inc., New York, N. Y. Varnish composition. No. 132,207; June 15; v. 275; p. 619.
Miracle Company, Chicago, Ill. Non-alcoholic fruit beverage. No. 132,208; June 15; v. 275; p. 619.
Mueller, Emil, Springfield, Ohio. Composition rubbing-stone. No. 132,209; June 15; v. 275; p. 619.
Muller-Thym, Bernard, Kansas City, Mo. Oil for sanctuary lamps and candles. No. 132,263; June 15; v. 275; p. 621.
N. V. Handelsvereeniging Gebrs. Rikkers, Amsterdam, Netherlands. Lead-pencils, writing-pens, and rubber erasers. No. 132,162; June 15; v. 275; p. 617.
Nacoma Textile Co., New York, N. Y. Woolen dress piece goods and fancy cotton piece goods. No. 132,210; June 15; v. 275; p. 619.
Napier Saw Works, Inc., Springfield, Mass. Saws and saw-frames and metal-cutting band-saw machines. No. 132,211; June 15; v. 275; p. 619.
National Spark Plug Company, Rockford, Ill. Spark-plugs. No. 132,212; June 15; v. 275; p. 619.
National Watch Company, Inc., New York, N. Y. Watch-movements. No. 132,213; June 15; v. 275; p. 619.
Neenah Paper Co., Neenah, Wis. Bond-paper for writing, printing, and ledger purposes. No. 132,214; June 15; v. 275; p. 619.
Nelson, Olaf A., San Francisco, Calif. Canned fruits and canned tomatoes. No. 132,215; June 15; v. 275; p. 619.

Newmark, Fred, New York, N. Y. Ladies' flat underwear. No. 132,216; June 15; v. 275; p. 619.
Nickels Manufacturing Company, Bristol, Va. Women's, misses', and children's blouses and suits. No. 132,217; June 15; v. 275; p. 619.
Nomend Hosiery Mills, M. B. Laubach Co., Inc., Philadelphia, Pa. Hosiery. No. 132,218; June 15; v. 275; p. 619.
Nulomoline Company, The, New York, N. Y. Non-alcoholic preparation used as a sweetening for beverages. No. 132,219; June 15; v. 275; p. 619.
Ollendorff, I., Company, New York, N. Y. Watches, watch-movements, watchcases, and dials. No. 132,220; June 15; v. 275; p. 619.
O-Pee-Chee Gum Co., Limited, London, Ontario, Canada. Chewing-gum. No. 132,221; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Garters. No. 132,224; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Pearl buttons. No. 132,222; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Shoe-laces. No. 132,223; June 15; v. 275; p. 619.
Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. No. 132,225; June 15; v. 275; p. 619.
Philadelphia Pile Fabric Mills, Philadelphia, Pa. Plush piece goods. No. 132,226; June 15; v. 275; p. 619.
Preis, J. J., & Company, New York, N. Y. Outer garments for young men and boys. No. 132,227; June 15; v. 275; p. 619.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. Nos. 132,228–9; June 15; v. 275; p. 619.
Propper, Leo, New York, N. Y. Women's and children's hosiery. No. 132,230; June 15; v. 275; p. 619.
Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 132,231; June 15; v. 275; p. 619.
Purity Cross, Inc., West Orange, N. J. Ginger-ale. No. 132,232; June 15; v. 275; p. 619.
Roemer, Ed. B., Zanesville, Ohio. Overalls, jackets, jumpers, and work-clothes. No. 132,233; June 15; v. 275; p. 619.
Rommel, Louis, New York, N. Y. Phonographs, phonograph records, sound-boxes, and needles. No. 132,234; June 15; v. 275; p. 620.
Rowe Manufacturing Co., Galesburg, Ill. Gates constructed wholly or partially of wood. No. 132,235; June 15; v. 275; p. 620.
Roxbury Carpet Company, Boston, Mass. Carpets. No. 132,236; June 15; v. 275; p. 620.
Rust-Knott Mfg. Co., Toledo, Ohio. Drying liquid composition in the nature of a lacquer or paint. No. 132,237; June 15; v. 275; p. 620.
Saler, Samuel, Philadelphia, Pa. Tub-butter. No. 132,238; June 15; v. 275; p. 620.
Saltzman & Berman, New York, N. Y. Pile fabrics, cotton, linen, and silk piece goods. No. 132,239; June 15; v. 275; p. 620.
Scintilla, Solothurn, Switzerland. Electrical apparatus, machines, and supplies. No. 132,240; June 15; v. 275; p. 620.
Seidler-Miner Company, Detroit, Mich. Electric lighting and wiring fixtures. No. 132,241; June 15; v. 275; p. 620.
Senghusch Self-Closing Inkstand Company, Milwaukee, Wis. Inkstands and inkwells. No. 132,242; June 15; v. 275; p. 620.
Shaw, Alex. D., & Co., New York, N. Y. Soap. No. 132,243; June 15; v. 275; p. 620.
Simmons Hardware Company, St. Louis, Mo. Cutlery and machinery. No. 132,246; June 15; v. 275; p. 620.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 132,245; June 15; v. 275; p. 620.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton piece goods, cotton dress goods, cotton and silk dress goods, &c. No. 132,247; June 15; v. 275; p. 620.
Sinclair Refining Company, Chicago, Ill. Oils made from petroleum, both with or without admixture of other oils. No. 132,248; June 15; v. 275; p. 620.
Skillkrafters Incorporated, Dover, Del., and Philadelphia, Pa. Writing-paper and mailing-envelops. No. 132,249; June 15; v. 275; p. 620.
Standard Bottling and Extract Co., Boston, Mass. Non-alcoholic beverages and syrups for making the same. No. 132,250; June 15; v. 275; p. 620.
Standard Kid Mfg. Co., Boston, Mass. Finished skins. No. 132,251; June 15; v. 275; p. 620.
Standard Oil Company of New York, New York, N. Y. Kerosene, gasolene, naphtha, lubricating oils and greases. No. 132,252; June 15; v. 275; p. 620.
Standard Varnish Works, New York, N. Y. Paints and painters' material. No. 132,253; June 15; v. 275; p. 620.
Steinberg, Morris, New York, N. Y. Salad-dressing. No. 132,254; June 15; v. 275; p. 620.
Stern Brothers & Company, New York, N. Y. Bead neck-chains, bracelets, and crosses. No. 132,256; June 15; v. 275; p. 620.
Stern Brothers & Company, New York, N. Y. Hatpins, scarf and baby pins. No. 132,257; June 15; v. 275; p. 620.
Stern Brothers & Company, New York, N. Y. Lockets, fobs, pendants, and ear-rings. No. 132,258; June 15; v. 275; p. 620.
Stern Brothers & Company, New York, N. Y. Ring and ring-mountings. No. 132,255; June 15; v. 275; p. 620.
Sunnyhome Electric Company, Detroit, Mich. Electrical apparatus, machines, and supplies. No. 132,259; June 15; v. 275; p. 620.
Taylor, Mary D., Largo, Fla. Jams, marmalades, and jellies. No. 132,260; June 15; v. 275; p. 620.
Thompson Shoe Company, St. Paul, Minn. Boots and shoes made of leather, rubber, and canvas. No. 132,261; June 15; v. 275; p. 620.
Tiffany & Company, New York, N. Y. Watches and clocks. No. 132,262; June 15; v. 275; p. 620.
Toledo Fuel Company, The, Toledo, Ohio. Fuel-oils. No. 132,264; June 15; v. 275; p. 621.
Trotter, Joseph W., Birmingham, Ala. Gasolene. No. 132,265; June 15; v. 275; p. 621.
Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Compound for removing paint, varnish, and enamel from surfaces. No. 132,267; June 15; v. 275; p. 621.
Utilities Chemical Company, Detroit, Mich. Cleaning compounds for general use. No. 132,268; June 15; v. 275; p. 621.
Walker Hosiery Mills Co., Burlington, N. C. Hosiery. No. 132,269; June 15; v. 275; p. 621.
Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 132,270; June 15; v. 275; p. 621.
Weinberg & Bisbing, New York, N. Y. Umbrellas. No. 132,271; June 15; v. 275; p. 621.
Weinberg & Weinberg, New York, N. Y. Dress, negligée, and work shirts, and knit and athletic underwear for men. No. 132,272; June 15; v. 275; p. 621.
Wells-Lamont Manufacturing Company, Minneapolis, Minn. Fabric and leather-faced fabric and leather gloves. No. 132,273; June 15; v. 275; p. 621.
White, James F., & Co., New York, N. Y. Textile cotton, union, and all-linen goods in the piece. No. 132,274; June 15; v. 275; p. 621.
White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 132,275; June 15; v. 275; p. 621.
Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 132,276; June 15; v. 275; p. 621.
Whittemore Brothers Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. No. 132,277; June 15; v. 275; p. 621.
Wild, Thomas J., Chicago, Ill. Non-alcoholic concentrated malt and hop extract. No. 132,278; June 15; v. 275; p. 621.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

A. & A. Manufacturing Co., Seattle, Wash. Grinding compositions. No. 130,009; June 15; v. 275; p. 600.
Abraham, A. G., Company, Moline, Ill. Candy. No. 131,549; June 15; v. 275; p. 610.
Adams, W. J., & Co. Limited, Manchester, England. Elastic cords, braids, and tapes. No. 114,072; June 15; v. 275; p. 576.
Air-Way Company, The, Toledo, Ohio. Electric vacuum-cleaner. No. 131,201; June 15; v. 275; p. 608.
Aktiebolaget Ingenlörsfirman G. A. Lindstedt & Co., Stockholm, Sweden. Bathtubs, set-bowls, kitchen-sinks, door-closers, knobs, checks, drawer-handles, &c. No. 129,552; June 15; v. 275; p. 597.
Albert Lea Sprayer Company, Albert Lea, Minn. Sprayers and parts thereof for spraying trees, shrubs, and plants. No. 127,060; June 15; v. 275; p. 587.
Albert Sechrist Manufacturing Company, The, Denver, Colo. Cooking utensils. No. 124,496; June 15; v. 275; p. 582.
Alfocorn Milling Company, St. Louis, Mo. Stock feed. Nos. 132,221–2; June 15; v. 275; p. 613.
Alfocorn Milling Company, St. Louis, Mo. Stock feed. Nos. 132,224–6; June 15; v. 275; p. 613.
Allen, William W., Dobbs Ferry, N. Y. Clothes-washing machines. No. 127,955; June 15; v. 275; p. 589.
Alter, Frank W., Chicago, Ill. Timepieces. No. 124,831; June 15; v. 275; p. 583.
Altman, B., & Co., New York, N. Y. Cologne. No. 128,584; June 15; v. 275; p. 592.
American Iron Products Company, Inc., New York, N. Y. Nails, spikes, bolts, nuts, rivets, and steel and iron pipes. No. 130,740; June 15; v. 275; p. 605.
American Laboratories Co., The, Cincinnati, Ohio. Preparation for colds, influenza, sciatica, ear and tooth ache, &c. No. 128,751; June 15; v. 275; p. 592.
American Saw Mill Machinery Company, Hackettstown, N. J., and New York, N. Y. Bolting-machines or short-log saws. No. 125,525; June 15; v. 275; p. 584.
American Wire Fabrics Company, Chicago, Ill. Screen wire-cloth. No. 130,871; June 15; v. 275; p. 605.
American Woolen Products Co., Inc., New York, N. Y. Raw hides, partly-finished leather, and leather. Nos. 129,164–5; June 15; v. 275; pp. 594–5.
Andersen Lumber Company, Hudson, Wis., and South Stillwater, Minn. Wooden window and door frames. No. 132,246; June 15; v. 275; p. 608.
Ansonia Novelty Co., The, Ansonia, Conn. Sewing-thimbles. No. 131,299; June 15; v. 275; p. 608.
Armand Company, The, Des Moines, Iowa. Toilet soaps. No. 101,635; June 15; v. 275; p. 575.
Asbestomine Company, Wenatchee, Wash. Dry-powder paints, cold-water paints, &c. No. 118,589; June 15; v. 275; p. 579.
Asmus Bradley Co., Chicago, Ill. Thread, yarn, and crochet embroidery-cotton. No. 131,007; June 15; v. 275; p. 606.
Automatic Manufacturing Company, The, Dayton, Ohio. Auxiliary air-inlet devices for internal-combustion engines, grease cups and guns. No. 118,006; June 15; v. 275; p. 578.
Autoyre Company, The, Oakville, Conn. Soap-dishes, towel-bars, hooks, toothbrush-holders, shelf-brackets, &c. No. 129,582; June 15; v. 275; p. 597.
Avalon Farms Company, The, Chicago, Ill. Tonic and conditioner for horses only. No. 128,645; June 15; v. 275; p. 592.
Baker, Erwin H., San Jose, Calif. Perfumes. No. 128,648; June 15; v. 275; p. 592.
Baltimore Process Co., Baltimore, Md. Non-alcoholic mixtures used in making malt beverages. No. 121,105; June 15; v. 275; p. 580.
Barco Manufacturing Company, Chicago, Ill. Valves for pipe-lines, fittings for air, water, steam, and other fluid-conveying pipes, &c. No. 130,198; June 15; v. 275; p. 601.
Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. Nos. 131,771–2; June 15; v. 275; p. 610.
Beaumont Dry Goods & Notions Co., Beaumont, Tex. Men's work, outer flannel, and dress shirts, overalls, and pants, children's hose, &c. No. 129,693; June 15; v. 275; p. 597.
Beck, John M., New Orleans, La. Salve for boils, carbuncles, eczema, poisonous bites, &c. No. 128,721; June 15; v. 275; p. 592.
Bennettsville Brick Company, Florence, S. C. Brick. No. 130,084; June 15; v. 275; p. 600.
Berger Manufacturing Company, The, Canton, Ohio. Metal ceilings. No. 132,501; June 15; v. 275; p. 614.
Bernstein, Samuel E., New York, N. Y. Steel cutlery—namely, table knives, forks, &c. No. 121,139; June 15; v. 275; p. 580.
Beterpack Canning Company, Decoto, Calif. Canned fruit and vegetables. No. 131,301; June 15; v. 275; p. 608.
Beterpack Canning Company, Decoto, Calif. Canned fruits and vegetables. No. 131,303; June 15; v. 275; p. 608.
Birdsong, Lafayette F., McComb, Miss. Liver-pills. No. 128,264; June 15; v. 275; p. 591.
Blackman Talking Machine Co., Inc., New York, N. Y. Talking-machine needles. No. 125,937; June 15; v. 275; p. 585.
Blickman, Sophia, New York, N. Y. Tire-pumps. No. 127,497; June 15; v. 275; p. 588.
Bloch, L. D., & Co., New York, N. Y. Silver-plated hollow and flat ware for table service. No. 130,715; June 15; v. 275; p. 605.
Bourn Rubber Co., Providence, R. I. Rubber boots and shoes. No. 116,251; June 15; v. 275; p. 577.
Brainerd & Armstrong Company, The, New London, Conn. Fabrics in the piece woven of silk in combination with cotton, &c. No. 129,829; June 22; v. 275; p. 598.
Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Dress-shields. No. 129,489; June 15; v. 275; p. 596.
Brown Company, Portland, Me. Wrapping-paper. Nos. 129,370–1; June 15; v. 275; p. 596.
Brownstein-Louis Company, Los Angeles, Calif. Monthly magazine. No. 120,692; June 15; v. 275; p. 580.
Buchanan, W. D., Company, The, Greenville, Ohio. Chocolate candy. No. 130,574; June 15; v. 275; p. 603.
Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Poultry food. No. 132,291; June 15; v. 275; p. 614.
Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Dairy stock, cattle food, &c. Nos. 1343,288–9; June 15; v. 275; p. 614.
Buckeye Producing Company, Toledo, Ohio. Ginger-ale, root-beer, and cider. No. 130,018; June 15; v. 275; p. 600.
Bull, Arthur W., Ardmore, Pa. Cream-whip. No. 131,626; June 15; v. 275; p. 610.
Burley Feed Manufacturing Company, Burley, Idaho. Feed for live stock and poultry. No. 131,203; June 15; v. 275; p. 608.
Buxton Garment Mfg. Co. Inc., Nashua, N. H. Overalls, sack and grocers' coats, work-aprons, trousers, and work-shirts. No. 129,695; June 15; v. 275; p. 598.
California Central Creameries, San Francisco, Calif. Dried milk solids in powder form. No. 131,308; June 15; v. 275; p. 608.
California Chocolate Shops Inc., Los Angeles, Calif. Chocolate candy. No. 121,750; June 15; v. 275; p. 581.
California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 131,777; June 15; v. 275; p. 611.
California Paint Company, Oakland, Calif. Dry and ready-mixed paints, varnishes, painters' oils, &c. No. 116,954; June 15; v. 275; p. 577.
Candy-Cake Inc. (See Lohr, William, assignor.)
Cascade Cider Co., Springville and Buffalo, N. Y. Non-alcoholic apple beverages. No. 128,918; June 15; v. 275; p. 593.
Charles William Stores, Inc., The, Brooklyn, N. Y. Hosiery. No. 121,507; June 15; v. 275; p. 581.
Charms Co., Newark, N. J. Candy and fruit tablets. No. 130,798; June 15; v. 275; p. 605.
Chemical Equipment Company, Chicago, Ill. Spray systems for chemical and other industrial operations, centrifugal and vertical pumps, &c. No. 126,168; June 15; v. 275; p. 586.
Chess & Wymond Company, Louisville, Ky. Empty tight barrels, kegs, hogsheads, shooks, staves, &c. No. 126,716; June 15; v. 275; p. 587.
Chester Kent & Co. Inc., Boston, Mass. Tonic medicinal preparation in dry form. No. 126,129; June 15; v. 275; p. 585.
Chipman Knitting Mills, Easton and Spring Grove, Pa. Hosiery. Nos. 130,513–15; June 15; v. 275; p. 603.
Church, James B., Jacksonville, Fla., and Southport, N. C. Rowlock-sockets. No. 130,268; June 15; v. 275; p. 602.
Clegg, Sherman D., Wheeling, W. Va. Herb tablets for the stomach, liver, bowels, and blood. No. 129,046; June 15; v. 275; p. 594.
Clements, Charles A., Newark, N. J. Hair-cream. Nos. 128,880–1; June 15; v. 275; p. 593.
Cleveland Automobile Company, Cleveland, Ohio. Automobiles. No. 129,698; June 15; v. 275; p. 598.

Cleveland Brass Manufacturing Company, The, Cleveland, Ohio. Faucets, manually-operated valves and cocks. No. 130,644; June 15; v. 275; p. 604.
Cleveland Heater Co., The, Cleveland, Ohio. Natural and artificial gas water heaters. No. 130,952; June 15; v. 275; p. 606.
Cohen Brothers Manufacturing Co., Inc., New York, N. Y. Artificial silk and mercerized silk cloth, fabrics, &c. No. 127,679; June 15; v. 275; p. 588.
Coleman, Harry H., New York, N. Y. Walking dolls. No. 128,044; June 15; v. 275; p. 590.
Colonial Chemical Corporation, Reading, Pa. Disinfectant, deodorizer, and insecticide. No. 127,996; June 15; v. 275; p. 589.
Commercial Tea & Coffee Co., The, Boston, Mass. Coffee. No. 127,756; June 15; v. 275; p. 589.
Compagnie D'Applications Mecaniques, Paris, France. Ball and roller bearings, belt-pulleys, &c. Nos. 116,125–6; June 15; v. 275; p. 576.
Concordia Mill & Elevator Company, Concordia, Mo. Wheat-flour. No. 131,775; June 15; v. 275; p. 611.
Continental Candy Corporation, Chicago, Ill. Marshmallows. No. 132,008; June 15; v. 275; p. 612.
Conway, C. C., New York, N. Y., E. E. Conway, Boston, and Theodore P. Brown, Worcester, Mass., trustees, Pianos. No. 126,462; June 15; v. 275; p. 586.
Conway, C. C., New York, N. Y., E. E. Conway, Boston, and Theodore P. Brown, Worcester, Mass., trustees, Pianos. No. 126,460; June 15; v. 275; p. 586.
Condurier, Fructus & Descher, Lyon, France, and New York, N. Y. Silk and velvet piece goods. No. 130,519; June 15; v. 275; p. 603.
Crafts, A. J., Piano Co. Inc., Richmond, Va. Pianos, organs, phonographs, and player-pianos. No. 123,337; June 15; v. 275; p. 582.
Curtis-Hosey Dryer Co., Philadelphia, Pa. Lumber-drying kilns. No. 129,830; June 15; v. 275; p. 599.
Cutter Tower Company, Inc., New York, N. Y. Toothpicks. No. 126,451; June 15; v. 275; p. 586.
Dahl, Frederick, East Orange, N. J. Medicinal preparation for leucorrhea, cystitis, &c. No. 128,597; June 15; v. 275; p. 592.
Decatur Brewing Co., Decatur, Ill. Malt extract for food purposes. No. 131,316; June 15; v. 275; p. 609.
Decatur Pump & Mfg. Co., Decatur, Ill. Water and pressure pumps, water-supply systems and parts thereof, &c. No. 118,081; June 15; v. 275; p. 578.
De Luxe Brush Company, Wilmington, Del., and Philadelphia, Pa. Shaving-cream for use before shaving. No. 129,309; June 15; v. 275; p. 595.
Dentists' Supply Company, The, New York, N. Y. Artificial teeth. No. 128,957; June 15; v. 275; p. 594.
Dixie Fruit Products Corporation, New York, N. Y. Vinegar and canned fruits and vegetables. No. 118,959; June 15; v. 275; p. 579.
Donavan, Paul L., Denver, Colo. Spark-plugs. No. 131,783; June 15; v. 275; p. 611.
Dorman, W. H., & Co., Limited, Stafford, England. Metallic pipes and unions and sections. No. 130,410; June 15; v. 275; p. 602.
Druschel, Henry, Columbia, Pa. Hoisting machinery. No. 131,157; June 15; v. 275; p. 607.
Dubin, Charles, Philadelphia, Pa. Hand-needles for forming ornamental loops on fabrics. No. 130,023; June 15; v. 275; p. 600.
Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Drill-chucks. No. 129,706; June 15; v. 275; p. 598.
Edelman, E., & Company, Chicago, Ill. Tools comprising wrenches, hammers, and screw-drivers. No. 130,205; June 15; v. 275; p. 602.
Eddy, W., Plow Co., Greenwich, N. Y. Plows, markers, potato-coverers, root-cutters, lime-sowers, &c. No. 128,203; June 15; v. 275; p. 590.
Elasticap Company, The, Hoboken, N. J. Splice-insulators for electric conductors. No. 123,844; June 15; v. 275; p. 583.
Elting, Charles H., & Company, Chicago, Ill. Phonographs. No. 125,377; June 15; v. 275; p. 584.
Empire Carpet Co., New York, N. Y. Rugs made of wool and cotton. No. 131,158; June 15; v. 275; p. 607.
Error-No Incorporated, Rochester, N. Y. Copy-holders. No. 130,164; June 15; v. 275; p. 601.
Eveready Mfg. Company of Boston, Boston, Mass. Staple making and driving machines. No. 129,173; June 15; v. 275; p. 595.
Expedite Organization, The, Chicago, Ill. Filing and indexing devices. No. 129,877; June 15; v. 275; p. 599.
Faber & Company, Peoria, Ill. Stock food. No. 126,016; June 15; v. 275; p. 585.
Fageol Motors Company, Oakland, Calif. Motor-trucks and automobiles. No. 122,529; June 15; v. 275; p. 582.
Federal Soap Company, The, Columbus, Ohio. White laundry soap. No. 124,787; June 16; v. 275; p. 583.
Flaherty, John T., Springfield, Mass. Preparation for filling cavities and healing cuts in rubber tires, rubber shoes, and rubber goods. No. 128,205; June 15; v. 275; p. 590.
Flirtation Candy Co., Chicago, Ill. Chocolates. No. 131,630; June 15; v. 275; p. 610.
Forstman & Huffman Co., Passaic, N. J. Woolen piece goods. No. 131,261; June 15; v. 275; p. 608.
Frost, Milton A., San Antonio, Tex. Shaving-lotion and shampoo. No. 122,692; June 15; v. 275; p. 582.
Fudge, Ernest H., Windsor, England. Liquid preparation for cleaning and polishing silver and plate. No. 130,132; June 15; v. 275; p. 601.
Galbraith, Harriet L., Washington, D. C. Stands or supports for sadirons. No. 128,837; June 15; v. 275; p. 593.
Garrigus, L. E., & Co., Newark, N. J. Link and vest buttons, studs, tie-clasps, bracelets, &c., made of or plated with precious metal. No. 130,828; June 15; v. 275; p. 605.
Gervig, Philip, Alton, Ill. Vehicle-awning, detachable. No. 124,209; June 15; v. 275; p. 583.
Goldfield-Rosenfeld Co., Inc., The, New York, N. Y. Coats and suits for women and children. No. 127,910; June 15; v. 275; p. 589.
Goldstein, Julian M., Oneida, N. Y. Cigars. No. 125,617; June 15; v. 275; p. 585.
Goodrich, A., Manufacturer Inc., Chicago, Ill. Grinding-wheels, oil-stones, and razor-hones. No. 129,383; June 15; v. 275; p. 596.
Gordon Bean and Pea Harvester Co., The, Elizabeth City, N. C. Bean and pea harvester. No. 130,217; June 15; v. 275; p. 602.
Gourland Typewriter Corporation, New York, N. Y. Typewriting-machines. No. 130,218; June 15; v. 275; p. 602.
Graham, James, Detroit, Mich. Cereal, a food compound of various grains. No. 132,248; June 15; v. 275; p. 614.
Gray, Franklin A., Kansas City, Mo. Preparation for the hair and scalp. No. 128,962; June 15; v. 275; p. 594.
Gregg, Charles L., St. Louis, Mo. Beverages, non-alcoholic non-cereal maltless. No. 130,138; June 15; v. 275; p. 601.
Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Articles of hardware. No. 123,693; June 15; v. 275; p. 582.
Hart, B., & Brother, San Francisco, Calif. Silk piece goods. No. 131,167; June 15; v. 275; p. 607.
Haughton, Richard, Paoli, Pa. Crackers, zwieback, bran cookies, &c. Nos. 124,754–5; June 15; v. 275; p. 583.
Hendee Manufacturing Company, Springfield, Mass. Bicycles and attachments therefor. No. 83,173; June 15; v. 275; p. 575.
Hendricks, Charles L., New York, N. Y. Material in sheet form to be made into protective coverings for platens or rolls of typewriters, &c. No. 130,034; June 15; v. 275; p. 600.
Henkel-Clauss Co., The, Fremont, Ohio. Strops. No. 131,074; June 15; v. 275; p. 607.
Heppenstall Forge & Knife Company, Pittsburgh, Pa. Steel. Nos. 130,472–3; June 15; v. 275; p. 603.
Herman, Henry, Mitchell, S. D. Non-alcoholic, non-cereal, and maltless flavoring-syrups. No. 123,694; June 15; v. 275; p. 582.
Hershey Manufacturing Company, The, Denver, Colo. Steering-post locks for automobiles. No. 127,370; June 15; v. 275; p. 588.
Hexmen Moto Company, Racine, Wis. Carbureters and air-regulating devices for internal-combustion engines. No. 129,717; June 15; v. 275; p. 598.
Heymann, Max, Mount Vernon, N. Y. Magazine or periodical. No. 121,672; June 15; v. 275; p. 581.
Hind & Harrison Plush Co., New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 129,931; June 15; v. 275; p. 599.
Hoberg, John, Co., The, Green Bay, Wis. Toilet, tissue, and wrapping paper and paper toweling. No. 120,386; June 15; v. 275; p. 580.
Hobbs Storage Battery Company, Los Angeles, Calif. Electrical storage batteries. No. 132,048; June 15; v. 275; p. 612.
Hoffman, C. E., Company, Dallas, Tex. Cooling-cream, camphor-cream dandruffide, hair-invigorator, &c. No. 128,778; June 15; v. 275; p. 593.
Hoffman, C. E., Company, Dallas, Tex. Hair-dressing having no quinin. No. 128,779; June 15; v. 275; p. 593.
Hohmann-Nelson Company, Eau Claire, Wis. Instruments for indicating or measuring, controlling, and recording temperature, &c. No. 130,171; June 15; v. 275; p. 601.
Hollander, A., & Son, Inc., Newark, N. J. Fur-skins. No. 126,215; June 15; v. 275; p. 586.
Holt Manufacturing Company, The, Stockton, Calif. Mobile gun-mounts. No. 121,625; June 15; v. 275; p. 581.
Ideal Disinfectant Company, New York, N. Y. Odorizing and disinfectant compounds. No. 128,093; June 15; v. 275; p. 590.
Ignition Plug Co., The, Dayton, Ohio. Spark-plugs. No. 117,619; June 15; v. 275; p. 578.
Indiana Brass Company, The, Frankfort, Ind. Flush-tank and water-closet fittings. No. 129,326; June 15; v. 275; p. 596.
International Harvester Company, Chicago, Ill. Rope, cord, twine, and binder-twine. No. 129,719; June 15; v. 275; p. 598.
Jemtone Co., The, Omaha, Nebr. Needle-holding attachments for the sound-boxes of phonographs. No. 125,506; June 15; v. 275; p. 584.
Jewell Belting Company, Hartford, Conn. Lace leather and cut lacings. No. 129,934; June 15; v. 275; p. 599.
Jewell Belting Company, Hartford, Conn. Round and flat belting made of leather. No. 121,044; June 15; v. 275; p. 580.

Jory, Arthur T., San Francisco, Calif. Weekly publication. No. 125,703; June 15; v. 275; p. 585.
Josephson, C. J., Moline, Ill. Finger-rings, brooches, harpins, sterling and plated tableware, &c. No. 128,733; June 15; v. 275; p. 592.
Kant Break Spark Plug Company, St. Louis, Mo. Spark-plugs. No. 131,876; June 15; v. 275; p. 611.
Karalan, Melcon A., New York, N. Y. Silk and cotton petticoats and bloomers. No. 122,217; June 15; v. 275; p. 581.
Kellogg Switchboard and Supply Company, Chicago, Ill. Telephones, switchboards, circuit-breakers, &c. No. 111,274; June 15; v. 275; p. 576.
King Paint Manufacturing Company, Brooklyn, N. Y. Ready-mixed paints. No. 128,890; June 15; v. 275; p. 593.
Knickerbocker Clothing Co., St. Louis, Mo. Youths' and boys' outer garments. No. 117,237; June 15; v. 275; p. 578.
Kramer Rotary Harrow Co., Morton, Ill. Straw-spreaders. No. 117,808; June 15; v. 275; p. 578.
Kremo-lac Co., Inc., Brooklyn, N. Y. Liquid food. No. 117,188; June 15; v. 275; p. 578.
Krower-Tynberg Co. Inc., New York, N. Y. Cotton and silk piece goods and mixtures of same and linen, &c. No. 131,707; June 15; v. 275; p. 610.
Lady Jane Hat Shops, Inc., New York, N. Y. Woman's outfit—hat, coat, two-piece dress, hosiery, shoes, gloves, &c. No. 128,847; June 15; v. 275; p. 593.
Lawrence Airplane Model and Supply Company, Chicago, Ill. Toy airplanes. No. 118,388; June 15; v. 275; p. 579.
Lawrence, Augustine H., New York, N. Y. Monthly periodical giving stock-market information, &c. No. 127,093; June 15; v. 275; p. 588.
Lawrence, W. W., & Company, Pittsburgh, Pa. Paste paints, ready-mixed, enamel, flat, and oil paints, varnish stains, and clear varnish. No. 128,101; June 1; v. 275; p. 590.
Lazier, Martin, Steubenville, Ohio. Directory published periodically and by districts. No. 125,781; June 15; v. 275; p. 585.
Lea. It. J., Limited, Manchester, England. Smoking-tobacco. No. 117,844; June 15; v. 275; p. 578.
Lehn & Fink, Inc., New York, N. Y. Soap and shaving-soap in cream form. No. 131,394; June 15; v. 275; p. 609.
Levy, Maurice, New York, N. Y. Talcum and face powders, cold-cream, rouge, eyebrow-pencils, &c. No. 129,265; June 15; v. 275; p. 595.
Lindberg, Johan W., Stockholm, Sweden. Attachments for preventing the displacement of keys from keyholes. No. 113,471; June 15; v. 275; p. 576.
Line Drive Tractor Inc., Chicago, Ill. Tractors. No. 102,379; June 15; v. 275; p. 575.
Livingston, Samuel, & Son, Washington, D. C. Suits, overcoats, hats, &c., for men and boys. No. 120,353; June 15; v. 275; p. 579.
Lockilte Patch Company, Detroit, Mich. Valves for automobile fuel-tanks. No. 129,217; June 15; v. 275; p. 595.
Lohr, William, New York, N. Y., assignor to Candy-Cake Inc., Wilmington, Del. Candy, chocolate, cake, bread, &c. No. 120,491; June 15; v. 275; p. 580.
Long Handkerchief Co., Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. No. 131,395; June 15; v. 275; p. 609.
Lyon & Healy, Chicago, Ill. Store display-cabinets. No. 122,307; June 15; v. 275; p. 581.
Lyon & Healy, Chicago, Ill. Cornets, trumpets, trombones, tenor, baritone, and bass horns. No. 129,331; June 15; v. 275; p. 596.
Lyttleton, Ollie S., Lexington, Ky. Laxative tablet for colds coughs, headaches, &c. No. 120,250; June 15; v. 275; p. 579.
Mac-Lar Battery Company, Inc., Detroit, Mich. Electric storage batteries and connectors, terminals, &c. No. 131,712; June 15; v. 275; p. 610.
MacPherson, Warren, Cambridge, Mass. Canvas and rubber shoes, soles, heels, toe-boxes, and counters. No. 128,479; June 15; v. 275; p. 591.
Macy, R. H., & Co., Inc., New York, N. Y. Writing-paper. No. 131,116; June 15; v. 275; p. 607.
Madden Safety Razor Corporation, New York, N. Y. Safety razors and blades. No. 129,901; June 15; 275; p. 599.
Major Apron Company, Incorporated, Madison, Ind., and Chicago, Ill. Aprons and wash-dresses. No. 130,483; June 15; v. 275; p. 603.
Mangrane, Daniel, Barcelona, Spain. Olive-oil. Nos. 116,887–8; June 15; v. 275; p. 577.
Manufacturers' Belt Hook Co., Chicago, Ill. Belt-fastener. No. 129,640; June 15; v. 275; p. 597.
Massasoit Manufacturing Company, Fall River, Mass. Calking-cotton. No. 129,226; June 15; v. 275; p. 595.
Master Manufacturing Co., The, Cincinnati, Ohio. Shoe and leather oils, dressings, and paste polishes. No. 126,045; June 15; v. 275; p. 585.
Melikian Cigarettes, Inc., Wilmington, Del., and Trenton, N. J. Cigarettes. No. 127,822; June 15; v. 275; p. 589.
Menefee, Josephine, Rocky Mount, Va. Bottled tomato sauce. No. 122,259; June 15; v. 275; p. 581.
Merchant & Evans Company, Philadelphia, Pa. Clutches and universal joints for motor-vehicles. No. 127,518; June 15; v. 275; p. 588.
Merrill-Hamilton Company, Kansas City, Mo. Lubricating-strips for leaf-springs. No. 126,256; June 15; v. 275; p. 586.
Michaelson, David L., New York, N. Y. Biweekly publications. No. 124,657; June 15; v. 275; p. 583.
Michigan Lubricator Company, Detroit, Mich. Priming-cups and independent sight-feeds. No. 119,273; June 15; v. 275; p. 579.
Michigan Lubricator Company., Detroit, Mich. Radiator-valves. No. 130,679; June 15; v. 275; p. 604.
Micrometer Engineering Co. Ltd., Coventry, England. Bicycle and motor-cycle saddles. No. 128,976; June 15; v. 275; p. 594.
Mid-West Milling Company, The, Abilene, Kans. Wheat-flour. No. 131,913; June 15; v. 275; p. 612.
Miller & Macowsky, San Francisco, Calif. Children's frocks, wash-suits, rompers, &c. No. 118,235; June 15; v. 275; p. 579.
Milliken, William S., Brooklyn, N. Y. Hand fire-extinguishers. No. 127,321; June 15; v. 275; p. 588.
Mitchell Manufacturing Co., The, Portsmouth, Ohio, and New York, N. Y. Men's knitted union-suits. No. 129,017; June 15; v. 275; p. 594.
Moore, Richard J., New York, N. Y. White uncoated tablet used in the treatment of colds, influenza, neuralgia, &c. No. 127,695; June 15; v. 275; p. 588.
Morgan, Margaret, Milwaukee, Wis. Skin-cream. No. 128,795; June 15; v. 275; p. 793.
Morse, A. G., Co., Chicago, Ill. Candy. No. 130,973; June 15; v. 275; p. 606.
Motion Picture News, Inc., New York, N. Y. Weekly magazine. No. 119,955; June 15; v. 275; p. 579.
Mullins, A., Ranger, Tex. Lubricating-oil. No. 122,402; June 15; v. 275; p. 582.
Muskato Beverage Company, New Orleans, La. Beverage, non-alcoholic, sold as a soft drink. No. 131,029; June 15; v. 275; p. 607.
Naamlooze Vennootschap; J. A. Carp's Garenfabrieken, Helmond, Netherlands. Thread and yarn. No. 114,226; June 15; v. 275; p. 576.
National Enameling & Stamping Co., New York, N. Y. Pots, pans, boilers, bowls, broilers, muffin-rings, &c. No. 126,943; June 15; v. 275; p. 587.
National Hair Goods Co., Chicago, Ill. Hair-nets. No. 131,398; June 15; v. 275; p. 609.
National Trading Company, Chicago, Ill. Combination veil and hair-nets and veils and hair-nets. No. 131,438; June 15; v. 275; p. 610.
Neff, Ward A., Chicago, Ill. Newspapers. No. 120,427; June 15; v. 275; p. 580.
Neptune Sea Food Co., San Diego, Calif. Canned sardines. No. 122,782; June 15; v. 275; p. 582.
New York Blower Co., The, Laporte, Ind., and Chicago, Ill. Blowers and fans. No. 130,534; June 15; v. 275; p. 602.
Nichols, Wm. S., New York, N. Y. Sardines, fish branded as sardines and small fish. No. 128,612; June 15; v. 275; p. 592.
Nielon, A. H., & Son, Meridian, Miss. Coffee and mixture of coffee, chicory and cereal. No. 131,499; June 15; v. 275; p. 610.
Noerdlinger Brothers Company, New York, N. Y. Cotton and silk piece goods and mixtures of same. No. 128,859; June 15; v. 275; p. 593.
Nolan, Andy E., Portland, Oreg. Tire-vulcanizing apparatus. No. 129,737; June 15; v. 275; p. 598.
Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Antifriction ball and roller bearings, transmissions for machinery, &c. No. 126,651; June 15; v. 275; p. 587.
Northern Illinois Cereal Company, Chicago, Ill. Stock feed. No. 132,108; June 15; v. 275; p. 612.
Nulomoline Company, The, New York, N. Y. Cereal and sugar syrups for soda fountain purposes. No. 130,844; June 15; v. 275; p. 605.
Oakley Chemical Co., New York, N. Y. Soap. No. 123,254; June 15; v. 275; p. 582.
Oldham New York Saw Works, Inc., Brooklyn, N. Y. All classes of saws for cutting wood or metal. No. 129,339; June 15; v. 275; p. 596.
On-The-Dot Level Device, Chicago, Ill. Levels adapted to be removably attached within an opening in a board or the like. No. 130,177; June 15; v. 275; p. 601.
Oriole Toy Company, Wilmington, Del., and Pittsburgh, Pa. Amusement devices employing mirrors for reflecting movement. No. 125,907; June 15; v. 275; p. 585.
Osmers, Frank C., New York, N. Y. Imitation or artificial pearls. No. 116,207; June 15; v. 275; p. 576.
Ottawa Paint Works Limited, Ottawa, Canada. Oil paints, varnishes, paint-oils, &c. No. 125,301; June 15; v. 275; p. 584.
Pabst Brewing Company, Milwaukee, Wis. Beer and malt extracts. No. 119,368; June 15; v. 275; p. 579.
Pacific Sanitary Manufacturing Company, San Francisco, Calif. Bathtubs, lavatories, toilet-bowls, &c. No. 125,127; June 15; v. 275; p. 584.
Packard Motor Car Company, Detroit, Mich. Mixture-heaters for hydrocarbon-motors. No. 131,124; June 15; v. 275; p. 607.
Parabold Works, Inc., Yonkers, N. Y. Hair, clothes, and hat brushes. No. 105,664; June 15; v. 275; p. 575.

Patrician Hat Corporation, New York, N. Y. Trimmed hats for children, misses, and women. No. 129,471; June 15; v. 275; p. 596.
Patrick, F. A., & Co., Duluth, Minn. Clothes-pressing iron, electric heated. No. 130,926; June 15; v. 275; p. 606.
Patrick, F. A., & Co., Duluth, Minn. Fabric and leather gloves. No. 130,921; June 15; v. 275; p. 606.
Patrick, F. A., & Co., Duluth, Minn. Hosiery. No. 130,922; June 15; v. 275; p. 606.
Paulos, Tom B., Polo, Ill. Non-alcoholic beverage. No. 131,186; June 15; v. 275; p. 608.
Paulson, Henry, Chicago, Ill. Talking-machines. No. 127,485; June 15; v. 275; p. 588.
Philips-Brinton Company, Kennett Square, Pa. Ignition systems for internal-combustion engines and condensers. No. 132,061; June 15; v. 275; p. 612.
Pick, Albert, & Company, Chicago, Ill. Glass tumblers. No. 132,403; June 15; v. 275; p. 614.
Pioneer Chemical & Mfg. Co., The, Cleveland, Ohio. Chemical compounds to be dissolved in water to provide a cleaner for removing grease, oils, paints, &c. No. 129,802; June 15; v. 275; p. 598.
Plix Light Company, Inc., New York, N. Y. Motor-driven electric light and powder units. No. 128,319; June 15; v. 275; p. 591.
Plymouth Foundry & Machine Co., The, Plymouth, Wis. Ensilage-cutters and silo-fillers. No. 129,246; June 15; v. 275; p. 595.
Pocomoke Guano Co., The, Norfolk, Va. Fertilizer. No. 130,917; June 15; v. 275; p. 606.
Pollard, Morris L., New York, N. Y. Hosiery for men and women, knit gloves, hockey-caps, &c. No. 130,613; June 15; v. 275; p. 604.
Powell's, New York, N. Y. Candy. No. 130,179; June 15; v. 275; p. 601.
Procter & Collier Company, The, Cincinnati, Ohio. Bi-monthly magazine. No. 125,579; June 15; v. 275; p. 584.
Procter and Gamble Company, The, Cincinnati, Ohio. Oleomargarin. No. 132,058; June 15; v. 275; p. 612.
Puritan Candy Co., Milwaukee, Wis. Candies. No. 130,848; June 15; v. 275; p. 605.
Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 131,187; June 15; v. 275; p. 608.
Redmanol Chemical Products Co., Chicago, Ill. Smokers' articles, namely pipes, mouthpieces, &c., not of precious metal. No. 130,060; June 15; v. 275; p. 600.
Reed, Chas. H., New York, N. Y. Bunting. No. 127,015; June 15; v. 275; p. 587.
Reed, Eugene O., Company, Chicago, Ill. Candy. No. 131,745; June 15; v. 275; p. 610.
Reed, Eugene O., Company, Chicago, Ill. Candy. No. 131,830; June 15; v. 275; p. 611.
Regine, Michele A., Philadelphia, Pa. Explosive powder. No. 128,277; June 15; v. 275; p. 591.
Richardson, Floyd H., Chicago, Ill. Honey. No. 131,354; June 15; v. 275; p. 609.
Ripley, Edward, & Son, Ltd., Bradford, England. Piece goods. No. 122,497; June 15; v. 275; p. 582.
Roach, John S., Chicago, Ill. Gargle for soreness and affections of the throat and corn-plasters. No. 128,111; June 15; v. 275; p. 590.
Robinson & Golluber, New York, N. Y. Handkerchiefs. No. 124,534; June 15; v. 275; p. 583.
Rochester Electrical Supply Co., Rochester, N. Y. Laundry-washing machines. No. 128,171; June 15; v. 275; p. 590.
Rohr, Jesse F., Buffalo, N. Y. Hosiery. No. 130,618; June 15; v. 275; p. 604.
Russell Manufacturing Company, The, Middletown, Conn. Suspenders. No. 132,560; June 15; v. 275; p. 614.
Samuels, Edward, Brooklyn, N. Y. Woolen-felt rug. No. 127,775; June 15; v. 275; p. 589.
San Leandro Canning Co., San Leandro, Calif. Canned fruits and vegetables. Nos. 131,361–2; June 15; v. 275; p. 609.
Sanitary Products Corporation, The, New York, N. Y. Disinfectants. Nos. 129,095–6; June 15; v. 275; p. 594.
Sanitary Specialties Co., Philadelphia, Pa. Water-closet and bath seats, plumbing-traps, &c. No. 101,246; June 15; v. 275; p. 575.
Saphil Manufacturing Corporation, Chicago, Ill. Metal-working grinding-machines and parts thereof. No. 121,680; June 15; v. 275; p. 581.
Schoener, Herman, St. Cloud, Minn. Combination sets of garden-tools for hand use. No. 128,373; June 15; v. 275; p. 591.
Schwarz-Hexter Co., The, Cleveland, Ohio. Women's coats. Nos. 130,698–9; June 15; v. 275; p. 604.
Segal Lock & Hardware Co. Inc., New York, N. Y. Key machines and jigs for filing tumblers of locks. No. 126,487; June 15; v. 275; p. 586.
Sentinel Appliances Company, New York, N. Y. Mechanical fire-extinguishers. No. 130,690; June 15; v. 275; p. 604.
Shattuck & Jones, Incorporated, Boston, Mass. Boneless salt codfish. No. 129,863; June 15; v. 275; p. 599.
Skinner Chuck Company, The, New Britain, Conn. Chucks of all kinds. No. 128,528; June 15; v. 275; p. 592.
Slavin Bros. Company, Brooklyn, N. Y. Liquid stove-polish. No. 130,243; June 15; v. 275; p. 602.
Smith, A. C., Windsor, Canada, and Detroit, Mich. Chemical compounds. No. 109,110; June 15; v. 275; p. 575.
Société des Produits Azotés, Paris, France. Fertilizers. No. 127,741; June 15; v. 275; p. 589.
Soderquist, Victor E., Marshalltown, Iowa. Card games. No. 129,864; June 15; v. 275; p. 599.
Sonny Manufacturing Co., Milwaukee, Wis. Boys' blouses, play-suits or rompers, shirts, and knickerbockers. No. 131,132; June 15; v. 275; p. 607.
Spaulding Chain Corporation, Bloomfield, N. J. Sprocket-chain links used in forming sprocket-chains. No. 130,063; June 15; v. 275; p. 600.
Spellmeyer, Fred W., New York, N. Y. Eggs. Nos. 131,886–7; June 15; v. 275; pp. 611–12.
Splitdorf Electrical Company, Newark, N. J. Phonograph-meters. No. 126,879; June 15; v. 275; p. 587.
Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 131,834; June 15; v. 275; 611.
Springville Canning Co., Springville, N. Y. Canned vegetables. No. 131,837; June 15; v. 275; p. 611.
St. Albans Grain Company, St. Albans, Vt. Wheat feed and hominy-meal. No. 130,693; June 15; v. 275; p. 604.
Stack Construction Company, Duluth, Minn. Fabricated concrete building material. No. 130,700; June 15; v. 275; p. 605.
Stavanger Electro-Staalverk, A. S., Stavanger, Norway. Steel. No. 116,473; June 15; v. 275; p. 577.
Stern, Giles & Riemer, Inc., New York, N. Y. Infants' creepers, children's and youths' rompers, children's and misses' bloomers, &c. No. 130,733; June 15; v. 275; p. 605.
Straub, Gustav L., New York, N. Y. Natural prepared floral wreath. No. 131,401; June 15; v. 275; p. 610.
Strauss, Max, New York, N. Y. Woven and knitted silk piece goods. No. 131,832; June 15; v. 275; p. 611.
Sunderman Corporation, Newburgh, N. Y. Carbureters. No. 117,128; June 15; v. 275; p. 577.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Cornmeal. No. 127,807; June 15; v. 275; p. 589.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 127,809; June 15; v. 275; p. 589.
Taylor Instrument Companies, Rochester, N. Y. Hydrometers. No. 116,978; June 15; v. 275; p. 577.
Theobald Flour Mills Co., The, Northfield, Minn. Wheat-flour. No. 132,128; June 15; v. 275; p. 613.
Theobald Flour Mills Co., The, Northfield, Minn. Wheat-flour. No. 132,130; June 15; v. 275; p. 613.
Thurston-Bernay Co., San Francisco, Calif. Tool-handles. No. 125,136; June 15; v. 275; p. 584.
Tiffany & Company, New York, N. Y. Chinaware, bric-a-brac, earthenware, and porcelain. No. 128,242; June 15; v. 275; p. 591.
Tiffany & Company, New York, N. Y. Clothes, hair, and nail brushes, powder-puffs, and whisk-brooms. Nos. 128,240–1; June 15; v. 275; p. 591.
Tiffany & Company, New York, N. Y. Table-cutlery of base metal, pocket-knives, scissors, razors, and dies for engraving stationery. No. 128,237; June 15; v. 275; p. 591.
Toch Brothers, New York, N. Y. Material for hardening and dust-proofing cement or concrete floors. No. 130,002; June 15; v. 275; p. 600.
Treat 'Em Rough Pub. Co. Inc., New York, N. Y. Monthly magazine. No. 126,978; June 15; v. 275; p. 587.
Trumbull Electric Manufacturing Company, The, Plainville, Conn. Switches, switch and panel boards, cut-outs, fuse-blocks, electrical receptacles, &c. No. 129,101; June 15; v. 275; p. 594.
Turner Furnishing Goods Company, Springfield, Mo. Underwear and headwear, both knitted and flat, gloves and mittens, knitted and leather, &c. No. 129,517; June 15; v. 275; p. 597.
Turner Furnishing Goods Company, Springfield, Mo. Underwear, hosiery, headwear, gloves, &c. No. 129,761; June 15; v. 275; p. 598.
United States Rubber Company, New Brunswick, N. J. and New York, N. Y. Insoles made of felt composition. No. 129,914; June 15; v. 275; p. 599.
United States Rubber Company, New Brunswick, N. J. and New York, N. Y. Rubber mats. No. 129,107; June 15; v. 275; p. 594.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Clay used as a filler in manufacture of paper, paints, and rubber products. No. 129,580; June 15; v. 275; p. 597.
Vantine, A. A., & Co. Inc., New York and Long Island City, N. Y. Shaving-cream suitable for use before shaving. No. 130,997; June 15; v. 275; p. 606.
Victor Slicing Machine Co., The, Philadelphia, Pa. Meat-slicing machines. No. 130,455; June 15; v. 275; p. 602.
Victory Ring Compressor Company, Grand Rapids, Mich. Piston-ring compressors. No. 130,397; June 15; v. 275; p. 602.
Victory Shirt Co., Inc., New York, N. Y. Collars, cuffs, and dress and negligée shirts. No. 118,945; June 15; v. 275; p. 579.
Vogt Manufacturing Corporation, Rochester, N. Y. Brake-lining. No. 125,993; June 15; v. 275; p. 585.
Voorhees, Joseph P., New York, N. Y. Hosiery. No. 130,998; June 15; v. 275; p. 606.

(REGISTRATION APPLIED FOR.)

Wachenheimer Bros., Inc., Providence, R. I. Scarf-pins, hair, collar, and cuff pins, pendants, &c. No. 127,877; June 15; v. 275; p. 589.

..agner Electric Manufacturing Company, St. Louis, Mo. Electric motors, generators, converters, relays, and switches, &c. No. 129,363; June 15; v. 275; p. 596.

Waldes & Co., Prague, Bohemia. Placket and glove fasteners, needles, pins, &c. No. 121,073; June 15; v. 275; p. 580.

Wall, Ed W., Corpus Christi, Tex. Salve for sores, cuts, burns, and rheumatism. No. 128,123; June 15; v. 275; p. 590.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 130,704; June 15; v. 275; p. 605.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. Nos. 131,932–3; June 15; v. 275; p. 612.

Walworth Mfg. Co., Boston, Mass. Wrenches. No. 129,868; June 15; v. 275; p. 599.

Washington Steel and Ordnance Company, Washington, D. C. Drop-forgings which have been given finishing-work. No. 128,480; June 15; v. 275; p. 592.

Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 125,203; June 15; v. 275; p. 584.

Webb, Chas., and Son, New York, N. Y. Sewing, embroidery, and knitting needles, knitting-pins, &c. No. 130,456; June 15; v. 275; p. 603.

Weber, George E., Philadelphia, Pa. Hosiery. No. 130,635; June 15; v. 275; p. 604.

Weissman, Herman, New York, N. Y. Precious stones, jewelry, artificial precious stones and pearls, &c. No. 131,138; June 15; v. 275; p. 607.

Whitney-Eckstein Seed Co., Buffalo, N. Y. Timothy, clover, alfalfa, grass-seed, seed-grain, and field-seeds. No. 126,501; June 15; v. 275; p. 586.

Whittier, Charles T., New York, N. Y. Corn-starch. No. 131,934; June 15; v. 275; p. 612.

Wibel, Axel, Stockholm, Sweden. Calculating-machine. No. 125,554; June 15; v. 275; p. 584.

Williams, P. A., Atlanta, Ga. Reconstructive tonic. No. 130,003; June 15; v. 275; p. 600.

Wisniewski, William, Flushing, N. Y. Reversible collars and cuffs. No. 129,689; June 15; v. 275; p. 597.

Wolff, Aaron R., Chicago, Ill. Sweeping compound. No. 116,450; June 15; v. 275; p. 577.

Wolverine Supply & Mfg. Co., Pittsburgh, Pa. Automatic sand-operated mechanical toys and toy dishes. No. 126,231; June 15; v. 275; p. 586.

Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. Nos. 131,368–9; June 15; v. 275; p. 609.

Yale Suspender Co., The, New York, N. Y. Men's leather apparel-belts and suspenders. No. 117,264; June 15; v. 275; p. 578.

Yankee Polish Co., New York, N. Y. Boot, shoe, and leather polishes, dressings, and oils. No. 129,215; June 15; v. 275; p. 595.

Youngstown Chemical Co., The, Youngstown, Ohio. Emulsions of almond, ginger, lemon, vanilla, &c., for food-flavoring. No. 130,188; June 15; v. 275; p. 601.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adjustable gage. L. Rouanet. No. 1,343,479; June 15; v. 275; p. 481.

Aeration of sewage and other impure liquids. O. Stott and E. R. Jones. No. 1,343,797; June 15; v. 275; p. 546.

Aerial torpedo. C. L. Klise. No. 1,343,831; June 15; v. 275; p. 552.

Aeroplane. L. Coletta. No. 1,343,433; June 15; v. 275; p. 473.

Aeroplane. J. Ellard. No. 1,343,498; June 15; v. 275; p. 486.

Aeroplane-brake. G. L. Davis. No. 1,343,769; June 15; v. 275; p. 540.

Agricultural implement. N. Hoynack. No. 1,343,564; June 15; v. 275; p. 499.

Agricultural machine, Motor-driven. L. A. Greene. No. 1,343,866; June 15; v. 275; p. 560.

Air-back for stokers. M. Alpern. No. 1,343,702; June 15; v. 275; p. 526.

Air-compressor, Engine-driven. I. Lychyj. No. 1,343,270; June 15; v. 275; p. 441.

Air-heating furnace. F. A. C. Skinner. No. 1,343,752; June 15; v. 275; p. 536.

Air-lift footpiece. A. R. Jennings. No. 1,343,510; June 15; v. 275; p. 488.

Air-moistener. R. W. Hardie. No. 1,343,718; June 15; v. 275; p. 530.

Air-spring. L. R. Gruss. No. 1,343,560; June 15; v. 275; p. 498.

Aircraft. E. B. Carus. No. 1,343,707; June 15; v. 275; p. 528.

Aircraft-controlling gear. A. V. Roe. No. 1,343,850; June 15; v. 275; p. 556.

Airship. C. C. Berry. No. 1,342,428; June 15; v. 275; p. 472.

Aldegyde from acetylene, Preparation of acetic. A. Guyot. No. 1,343,715; June 15; v. 275; p. 529.

Alum, Manufacturing chrome. G. H. Hultman. No. 1,343,725; June 15; v. 275; p. 531.

Ammunition-receptacle. J. S. Peoples. No. 1,343,374; June 15; v. 275; p. 462.

Anticreeper. I. T. Howard. No. 1,343,563; June 15; v. 275; p. 499.

Auto-pull-out. L. Hammer. No. 1,343,625; June 15; v. 275; p. 511.

Automatic machine. J. P. Brophy. No. 1,343,344; June 15; v. 275; p. 455.

Automobile-body, Convertible. W. L. Carter. No. 1,343,655; June 15; v. 275; p. 517.

Automobile-buffer. R. T. Newton. No. 1,343,741; June 15; v. 275; p. 534.

Automobile-cranker. A. C. Tennyson. No. 1,343,531; June 15; v. 275; p. 492.

Automobile direction-indicator. B. Sutton. No. 1,342,529; June 15; v. 275; p. 492.

Automobile, Identification attachment for. W. S. Marr. No. 1,343,837; June 15; v. 275; p. 554.

Automobile-indicator. J. and N. Gerke and E. C. Williams. No. 1,343,361; June 15; v. 275; p. 459.

Automobile-lock. S. A. Berryhill and I. W. Woolley. No. 1,343,807; June 15; v. 275; p. 547.

Automobile-lock. W. E. James. No. 1,343,870; June 15; v. 275; p. 561.

Automobile-lock. F. L. Wells. No. 1,343,424; June 15; v. 275; p. 471.

Automobile-pedal lock. C. E. Lacy. No. 1,343,459; June 15; v. 275; p. 478.

Automobile pedal lock. B. Parmenter. No. 1,343,405; June 15; v. 275; p. 467.

Automobile-signal. E. C. Clark. No. 1,343,248; June 15; v. 275; p. 438.

Automobile starting system. C. B. Mills. No. 1,343,222. June 15; v. 275; p. 433.

Automobile-steering devices, Lock for. J. Blackburn. No. 1,343,192; June 15; v. 275; p. 427.

Automobile steering-rod. C. A. Caldwell. No. 1,343,305; June 15; v. 275; p. 448.

Automobile-tank, Gasolene. M. S. Dickerson. No. 1,343,812; June 15; v. 275; p. 548.

Automobile-trailer. W. T. Daum. No. 1,343,197; June 15; v. 275; p. 428

Average-speed meter. C. F. Eaton, Jr. No. 1,343,198; June 15; v. 275; p. 428.

Axle adjustment, Crank-. O. E. Koppiin. No. 1,343,268; June 15; v. 275; p. 441.

Baffle-plate. E. T. Perry. No. 1,343,376; June 15; v. 275; p. 462.

Bail-end-forming machine. W. J. Kenny. No. 1,343,267; June 15; v. 275; p. 441.

Ballast-surfacer. P. Ursino. No. 1,343,533; June 15; v. 275; p. 493.

Band-stretcher. V. Ragona. No. 1,343,336; June 15; v. 275; p. 454.

Barrette attachment. R. W. Thayer. No. 1,343,239; June 15; v. 275; p. 426.

Bars, Making curved flanged. R. S. Smith. No. 1,343,647; June 15; v. 275; p. 515.

Batteries, Separator for storage. R. N. Chamberlain. No. 1,343,708; June 15; v. 275; p. 528.

Battery-jar and making same, Hard-rubber. H. Welda. No. 1,343,380; June 15; v. 275; p. 463.

Battery materials, Purification of. O. E. Ruhoff. No. 1,343,585; June 15; v. 275; p. 503.

Bearing and making same, Roller-. A. H. Jones. No. 1,343,885; June 15; v. 275; p. 563.

Bearing, Antifriction-. T. Jacobson. No. 1,343,321; June 15; v. 275; p. 457.

Bed, Adjustable. J. R. Stark. No. 1,343,593; June 15; v. 275; p. 504.

Bedspread. I. Christensen. No. 1,343,881; June 15; v. 275; p. 563.

Bench, Collapsible. I. Danyiuk. No. 1,343,810; June 15; v. 275; p. 548.

Beverage, Dealcoholized fermented. J. Schnelble. No. 1,342,587; June 15; v. 275; p. 503.

Bicycle. J. Crear. No. 1,343,616; June 15; v. 275; p. 509.

Bicycle-lock. J. H. van Viersen. No. 1,343,856; June 15; v. 275; p. 558.

Bicycle spring-fork. M. F. Hardnett. No. 1,343,820; June 15; v. 275; p. 550.

Bobbin and spindle connector. C. Nordell. No. 1,343,839; June 15; v. 275; p. 554.

Boiler: *See*—
Water-tube boiler.

Boiler-cleaner. L. Beebee and F. Bowers. No. 1,343,654; June 15; v. 275; p. 517.

Bolting-up device. C. Evensen. No. 1,343,667; June 15; v. 275; p. 519.

Bolts, Making. J. B. Heller. No. 1,343,720; June 15; v. 275; p. 530.

Book holder, Copy-. P. Stoelzel. No. 1,343,527; June 15; v. 275; p. 491.

Boot or shoe sole. H. L. Haskell. No. 1,343,450; June 15; v. 275; p. 476.

Booth, counter, and the like, Composite. G. R. Meyercord. No. 1,343,637; June 15; v. 275; p. 513.

Bottles, Sanitary closure for. C. W. Borgner. No. 1,343,760; June 15; v. 275; p. 538.

Bow-tie grip. A. Graske. No. 1,343,623; June 15; v. 275; p. 510.

Bowls, Opening means for centrifugal. M. Leitch. No. 1,343,325; June 15; v. 275; p. 452.

Box-blank machine, Wire-bound-. W. P. Healy. No. 1,343,561; June 15; v. 275; p. 498.

Box-covering blank. W. Buswell. No. 1,343,193; June 15; v. 275; p. 428.

Box-covering machine. J. D. Reifsnyder and W. A. Weightman. No. 1,343,748; June 15; v. 275; p. 536.

Box-opener. J. Heiligenstein. No. 1,343,627; June 15; v. 275; p. 511.

Brace or knee. H. B. Gaffers. No. 1,343,445; June 15; v. 275; p. 475.

Bracket: *See*—
Lamp-bracket.

Braiding machines, Apparatus for holding the thread tense in circular-. G. Horn. No. 1,343,452; June 15; v. 275; p. 476.

Brake: *See*—
Aeroplane-brake. Hand-brake.
Fluid-pressure brake.

Brake-valve handle, Reversible. W. V. Turner. No. 1,343,695; June 15; v. 275; p. 525.

Breast-drill. P. J. Le Sueur. No. 1,343,370; June 15; v. 275; p. 461.

Brines, Separating potassium compound from. H. W. Morse. No. 1,343,401; June 15; v. 275; p. 467.

Brines, Separation of constituents of. H. W. Morse. No. 1,343,400; June 15; v. 275; p. 466.

Brush-holder. M. Afranel. No. 1,343,381; June 15; v. 275; p. 463.
Buckrake and stacker. A. M. MacKersie. No. 1,343,398; June 15; v. 275; p. 466.
Bumper. R. T. Newton. No. 1,343,740; June 15; v. 275; p. 534.
Burner: *See*—
Gas-burner. Oil-burner.
Button, dress-fastener, and the like, Spring-. F. Hawkins. No. 1,343,506; June 15; v. 275; p. 487.
Cabinet, Cooking-. G. W. Wieschan. No. 1,343,539; June 15; v. 275; p. 494.
Cabinet-drawers, Extension-slide for. C. Lenhart. No. 1,343,513; June 15; v. 275; p. 488.
Cabinet, Pan-closet. G. E. Kinch. No. 1,343,830; June 15; v. 275; p. 552.
Cabinet, Phonograph table-. P. Kraushaar. No. 1,343,622; June 15; v. 275; p. 510.
Cabinets, Corner connection for. H. J. Gwyer. No. 1,343,209; June 15; v. 275; p. 430.
Cable-splice. J. F. Dillon. No. 1,343,251; June 15; v. 275; p. 438.
Calculator. A. B. Christopher. No. 1,343,660; June 15; v. 275; p. 518.
Calendar. W. W. White. No. 1,343,601; June 15; v. 275; p. 506.
Camera, Copying or enlarging. J. Becker. No. 1,343,889; June 15; v. 275; p. 564.
Camera, Photographic. J. Becker. No. 1,343,888; June 15; v. 275; p. 564.
Cameras, Plate-holder for photographic. J. Goddard. No. 1,343,773; June 15; v. 275; p. 541.
Can cap and seal. J. W. Kerr. No. 1,343,782; June 15; v. 275; p. 542.
Can closure, Dispensing-. J. H. Howard. No. 1,343,825; June 15; v. 275; p. 551.
Can-filling machines, Feeder for. C. E. Steere. No. 1,343,417; June 15; v. 275; p. 470.
Can selecting and weighing apparatus. G. J. Koehl. No. 1,343,458; June 15; v. 275; p. 478.
Car-fender. O. G. Jones. No. 1,343,729; June 15; v. 275; p. 531.
Car-hopper, Sanitary. N. Krohn. No. 1,343,730; June 15; v. 275; p. 532.
Car-mover. G. L. Bonham. No. 1,343,430; June 15; v. 275; p. 472.
Car or sleigh, Logging. A. Gendreau. No. 1,343,772; June 15; v. 275; p. 540.
Carrier: *See*—
Egg-carrier.
Car-roof. W. P. Murphy. No. 1,343,785; June 15; v. 275; p. 543.
Car-roof. W. P. Murphy. No. 1,343,786; June 15; v. 275; p. 543.
Car-seat. R. F. Stubblebine. No. 1,343,594; June 15; v. 275; p. 505.
Car-wheel skid-shoe. B. J. Buell. No. 1,343,614; June 15; v. 275; p. 509.
Cars, Wind-screen for motorcycle side. C. A. Easting. No. 1,343,440; June 15; v. 275; p. 474.
Carboy-case. W. G. Seabold. No. 1,343,340; June 15; v. 275; p. 455.
Carbureter. R. Jensen. No. 1,343,455; June 15; v. 275; p. 477.
Carbureters, Air-control device for the air-inlets of. H. Cory. No. 1,343,311; June 15; v. 275; p. 449.
Card, Display. R. T. Stafford. No. 1,343,651; June 15; v. 275; p. 516.
Carton and blank therefor. R. A. Taylor. No. 1,343,420; June 15; v. 275; p. 470.
Case: *See*—
Carboy-case.
Casing-head. W. M. Roades. No. 1,343,477; June 15; v. 275; p. 481.
Casing-head top. C. S. Wright. No. 1,343,426; June 15; v. 275; p. 471.
Casket-panel. D. J. Reynolds. No. 1,343,280; June 15; v. 275; p. 443.
Check. D. F. Fesler. No. 1,343,865; June 15; v. 275; p. 560.
Check, Bank-. C. Churchill. No. 1,343,762; June 15; v. 275; p. 538.
Chemical-closet. F. B. Shafer. No. 1,343,287; June 15; v. 275; p. 444.
Cheese-hoop. R. J. J. Mueller. No. 1,343,402; June 15; v. 275; p. 467.
Chimney-cowl, Back-draft-preventing. M. Ciaccia. No. 1,343,763; June 15; v. 275; p. 538.
Chimney-heater. F. W. Pendergast. No. 1,343,745; June 15; v. 275; p. 535.
Chisel, Cold-. G. A. Kissinger. No. 1,343,323; June 15; v. 275; p. 451.
Chlorid, Producing anhydrous aluminum. P. Danckwardt. No. 1,343,662; June 15; v. 275; p. 518.
Chuck for holding drills, reamers, and the like. E. M. Smith and A. W. Winsall. No. 1,343,795; June 15; v. 275; p. 545.
Chucks, Adjustable V-block for magnetic. F. L. Simmons. No. 1,343,751; June 15; v. 275; p. 536.
Churning device. R. A. Thompson and L. P. Morris. No. 1,343,532; June 15; v. 275; p. 493.
Circuit-closer, Thermal. W. P. Webber. No. 1,343,803; June 15; v. 275; p. 547.
Circuit-controlling device, Selectively-operated. J. C. Field. No. 1,343,256; June 15; v. 275; p. 439.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,306; June 15; v. 275; p. 448.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,307; June 15; v. 275; p. 448.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,308; June 15; v. 275; p. 448.
Clamp: *See*—
Pipe-clamp.
Classification of names, &c., Means employed in the. J. P. Woods; No. 1,343,755; June 15; v. 275; p. 537.
Cleaner: *See*—
Boiler-cleaner. Fountain-pen cleaner.
Cleaning apparatus. T. H. Richardson. No. 1,343,644; June 15; v. 275; p. 515.
Closet: *See*—
Chemical-closet.
Clothespin. V. Davis. No. 1,343,496; June 15; v. 275; p. 485.
Coal-chute. J. E. Hyatt and H. J. Moen. No. 1,343,675; June 15; v. 275; p. 521.
Coal-loading conveyer, Mechanical long-wall. A. E. Knee and G. B. Hopkins. No. 1,343,369; June 15; v. 275; p. 461.
Coating mineral material and product resulting therefrom. J. A. W. Pine. No. 1,343,680; June 15; v. 275; p. 522.
Cock, Gas-. A. R. Tallman. No. 1,343,530; June 15; v. 275; p. 492.
Codes as used in telegraphy, Apparatus for teaching. C. R. and R. Woodland. No. 1,343,754; June 15; v. 275; p. 537.
Coffee-pot. F. J. Rabbeth. No. 1,343,582; June 15; v. 275; p. 502.
Coffee-urn. A. S. Rice. No. 1,343,848; June 15; v. 275; p. 556.
Collecting and stapling mechanism. E. P. Sheldon. No. 1,343,231; June 15; v. 275; p. 435.
Compasses. C. F. Dieckmann. No. 1,343,664; June 15; v. 275; p. 519.
Compression-release. G. A. Goeke. No. 1,343,501; June 15; v. 275; p. 486.
Compressor apparatus. W. S. Weeks. No. 1,343,536; June 15; v. 275; p. 493.
Concentrator. M. L. Rogers. No. 1,343,683; June 15; v. 275; p. 523.
Concrete, Chair for reinforcing-rods for reinforced. W. B. Leonard. No. 1,343,326; June 15; v. 275; p. 452.
Concrete cooling-tower, Reinforced. G. Kuypers. No. 1,343,832; June 15; v. 275; p. 553.
Concrete floorings and non-sonorous ceilings, Construction of. L. Christin. No. 1,343,659; June 15; v. 275; p. 518.
Concrete-mold. F. G. Lynde. No. 1,343,572; June 15; v. 275; p. 500.
Container-closure. I. A. Pryde. No. 1,343,474; June 15; v. 275; p. 480.
Container, Preserving. W. W. Palmer. No. 1,343,579; June 15; v. 275; p. 502.
Control apparatus. P. L. Mardis. No. 1,343,218; June 15; v. 275; p. 432.
Control apparatus. P. L. Mardis. No. 1,343,219; June 15; v. 275; p. 432.
Control apparatus. K. A. Simmon. No. 1,343,232; June 15; v. 275; p. 435.
Control mechanism, Variable automatic. G. W. Swift, Jr. No. 1,343,487; June 15; v. 275; p. 483.
Control system. R. E. Hellmund. No. 1,343,210; June 15; v. 275; p. 431.
Control system. R. E. Hellmund. No. 1,343,211; June 15; v. 275; p. 431.
Controller. J. R. Langley. No. 1,343,214; June 15; v. 275; p. 431.
Conveying device. C. Pedersen. No. 1,343,373; June 15; v. 275; p. 461.
Core, Collapsible. A. H. Harris. No. 1,343,504; June 15; v. 275; p. 487.
Corn-header. W. F. Hamilton. No. 1,343,884; June 15; v. 275; p. 563.
Corn-thinner. M. I. Goldsmith. No. 1,343,558; June 15; v. 275; p. 498.
Cornet. J. W. Calderwood. No. 1,343,883; June 15; v. 275; p. 563.
Cotton-chopper. G. M. Hart and J. E. Wall. No. 1,343,777; June 15; v. 275; p. 541.
Coupling: *See*—
Fluid-pressure coupling. Pipe-coupling.
Hose-coupling. Shaft-coupling.
Coupling device, Flexible. R. A. Smith and J. J. Serrell. No. 1,343,413; June 15; v. 275; p. 469.
Counter apparatus. W. E. Horsch. No. 1,343,723; June 15; v. 275; p. 531.
Crane, Mold-assembling. C. K. Prince. No. 1,343,335; June 15; v. 275; p. 454.
Cranes, Means for the automatic equilibrium floating. V. Locarni. No. 1,343,630; June 15; v. 275; p. 510.
Crosstie. J. R. Dooley. No. 1,343,814; June 15; v. 275; p. 549.
Cup or box. M. Jakobson. No. 1,343,726; June 15; v. 275; p. 531.
Cushion: *See*—
Pneumatic cushion.
Cuspidor, Sanitary. J. Plucienski. No. 1,343,406; June 15; v. 275; p. 468.
Cutter: *See*—
Dough-cutter.

Cutting die, Sole-. T. W. Bilello. No. 1,343,383; June 15; v. 275; p. 463.
Cutting means. J. T. and P. P. Murphy. No. 1,343,639; June 15; v. 275; p. 514.
Cylinder-head, Combined. T. D. Lemieux. No. 1,343,678; June 15; v. 275; p. 522.
Cylinder-lock. W. E. Deibert. No. 1,343,438; June 15; v. 275; p. 474.
Dark, Method of and apparatus for detecting and observing objects in the. S. O. Hoffman. No. 1,343,393; June 15; v. 275; p. 465.
Dental articulator. W. M. Stanbrough. No. 1,343,691; June 15; v. 275; p. 524.
Dental massage and polishing appliance. C. W. Fuller. No. 1,343,713; June 15; v. 275; p. 529.
Die: *See*—
Cutting-die.
Digging machine, Ditch-. F. F. Lyons. No. 1,343,734; June 15; v. 275; p. 533.
Direction-indicator, Vehicle. F. F. Brendle. No. 1,343,761; June 15; v. 275; p. 538.
Display-holder. L. G. Quackenboss. No. 1,343,681; June 15; v. 275; p. 522.
Diving apparatus. F. W. Pendergast. No. 1,343,744; June 15; v. 275; p. 535.
Doll. R. A. Thomson and G. Alvis. No. 1,343,422; June 15; v. 275; p. 471.
Door, Automatic elevator-. J. R. McGee. No. 1,343,328; June 15; v. 275; p. 452.
Door or partition construction, Sheet-metal. C. A. Betz. No. 1,343,545; June 15; v. 275; p. 495.
Door, Sliding. P. F. Stacke. No. 1,343,416; June 15; v. 275; p. 470.
Doors, Swivel-hanger for. T. V. Plice. No. 1,343,789; June 15; v. 275; p. 544.
Dough-cutter. G. Rapavy. No. 1,343,844; June 15; v. 275; p. 555.
Drawer-locking device. S. Osterwell. No. 1,343,742; June 15; v. 275; p. 534.
Drill: *See*—
Breast-drill.
Dyeing fur-skins, Machine for. M. Dickerson. No. 1,343,355; June 15; v. 275; p. 458.
Dyeing-machine. W. J. Going. No. 1,343,326; June 15; v. 275; p. 439.
Educational device for objective teaching. O. Herrmann. No. 1,343,721; June 15; v. 275; p. 530.
Egg-carrier. A. V. Lea. No. 1,343,629; June 15; v. 275; p. 512.
Egg-timer. M. J. Nelson. No. 1,343,738; June 15; v. 275; p. 533.
Electric lock. J. A. Kyle. No. 1,343,731; June 15; v. 275; p. 532.
Electric machine, Dynamo-. C. R. Mills. No. 1,343,221; June 15; v. 275; p. 433.
Electric starting and generating system. E. H. Swarz. No. 1,343,409; June 15; v. 275; p. 468.
Electric system. J. L. Creveling. No. 1,343,765; June 15; v. 275; p. 539.
Electrical apparatus, Casing and support for. W. O. Beck. No. 1,343,880; June 15; v. 275; p. 562.
Electrical distribution system. W. A. Turbayne. No. 1,343,597; June 15; v. 275; p. 505.
Electrical system. J. M. Brown. No. 1,343,345; June 15; v. 275; p. 456.
Electromagnet, Alternating-current. G. E. Palmer. No. 1,343,404; June 15; v. 275; p. 467.
Engine: *See*—
Internal-combustion engine Rotary engine.
Steam-expansion engine.
Engine, L. A. Born. No. 1,343,612; June 15; v. 275; p. 508.
Engine, J. R. Pflaume. No. 1,343,473; June 15; v. 275; p. 480.
Engine-primer. C. G. Fredrickson. No. 1,343,555; June 15; v. 275; p. 497.
Engines, Apparatus for reboring and reaming cylinders of. J. J. Champion and T. B. Martindale. No. 1,343,517; June 15; v. 275; p. 489.
Engines, Automatic additional air-valve for combustion-. A. E. Peppercorn. No. 1,343,375; June 15; v. 275; p. 462.
Engines, Priming means for internal-combustion. T. F. Bourne. No. 1,343,547; June 15; v. 275; p. 496.
Engines, Starting-valve for combustion-. J. Müller. No. 1,343,226; June 15; v. 275; p. 434.
Engines, Water-valve for carburetors and vaporizers of internal-combustion. J. A. Torrens. No. 1,343,488; June 15; v. 275; p. 483.
Exhibitor. W. S. Skelton. No. 1,343,646; June 15; v. 275; p. 515.
Explosions, Device for registering. A. D. Reese. No. 1,343,875; June 15; v. 275; p. 562.
Extractor: *See*—
Flue-extractor.
Fabric-cutting device. G. C. Hosch. No. 1,343,722; June 15; v. 275; p. 530.
Fabrics, Machine for laying. H. I. Rosenblum. No. 1,343,339; June 15; v. 275; p. 454.
Farm-gate. G. W. and C. E. Goss. No. 1,343,559; June 15; v. 275; p. 498.
Fastener. G. M. Bills. No. 1,343,301; June 15; v. 275; p. 447.
Faucets, spigots, or the like with fluid-receivers, hose, or other conductors of fluids, Coupling for. A. Papini. No. 1,343,228; June 15; v. 275; p. 434.
Feeding device. F. B. Gilbert. No. 1,343,817; June 15; v. 275; p. 549.
Fencepost. C. B. Baumgartner. No. 1,343,543; June 15; v. 275; p. 495.
Fencepost. C. B. Baumgartner. No. 1,343,544; June 15; v. 275; p. 495.
Fence stay, Wire-. J. E. Eaton. No. 1,343,770; June 15; v. 275; p. 540.
Fender: *See*—
Car-fender.
Film-pack. L. E. Snyder. No. 1,343,590; June 15; v. 275; p. 504.
Film-reel. C. F. Jenkins. No. 1,343,628; June 15; v. 275; p. 511.
Finished surface for articles of manufacture. J. R. McClain. No. 1,343,216; June 15; v. 275; p. 432.
Finishing-machine. J. F. Standish. No. 1,343,379; June 15; v. 275; p. 463.
Fire-door-closing apparatus. L. S. Akers. No. 1,343,757; June 15; v. 275; p. 537.
Fire-escape. C. H. Pray. No. 1,343,642; June 15; v. 275; p. 514.
Fire-extinguishing apparatus and control device therefor, Chemical. J. R. Hamilton. No. 1,343,364; June 15; v. 275; p. 459.
Fire, Gas-. C. Scott-Snell. No. 1,343,484; June 15; v. 275; p. 483.
Firearm. G. M. Formby. No. 1,343,444; June 15; v. 275; p. 475.
Firearm. E. E. Redfield. No. 1,343,583; June 15; v. 275; p. 503.
Flatiron-rest. C. V. Wilson. No. 1,343,699; June 15; v. 275; p. 526.
Floor construction. C. W. Stevens. No. 1,343,234; June 15; v. 275; p. 435.
Floor-lifting device. R. W. Williams. No. 1,343,862; June 15; v. 275; p. 559.
Floor-waxing device. E. E. Moline. No. 1,343,223; June 15; v. 275; p. 433.
Flower-pot support. F. Leitch. No. 1,343,568; June 15; v. 275; p. 500.
Flue-extractor. P. M. Canty. No. 1,343,431; June 15; v. 275; p. 473.
Flue-support. C. D. Reynolds. No. 1,343,279; June 15; v. 275; p. 443.
Fluid-pressure coupling. S. A. Rousseau. No. 1,343,852; June 15; v. 275; p. 556.
Fluid-pressure brake. W. V. Turner. No. 1,343,694; June 15; v. 275; p. 525.
Folding-machines, Sheet-guide for. E. Scheick. No. 1,343,791; June 15; v. 275; p. 544.
Foot-mat, Metallic. J. S. Doe. No. 1,343,356; June 15; v. 275; p. 458.
Foot-throttle controlling mechanism. F. C. Smith. No. 1,343,378; June 15; v. 275; p. 462.
Fork. H. E. Denman. No. 1,343,811; June 15; v. 275; p. 548.
Fountain and feeder, Stock and poultry. S. Caspe. No. 1,343,349; June 15; v. 275; p. 457.
Fountain-pen cleaner. C. W. Garver. No. 1,343,621; June 15; v. 275; p. 510.
Fountains, Mixing apparatus for soda-. D. S. Kepler. No. 1,343,829; June 15; v. 275; p. 552.
Frame: *See*—
Vehicle-frame.
Friction-support for lids. I. F. Burton. No. 1,343,347; June 15; v. 275; p. 456.
Fruit and vegetable pulping machine. J. R. Dostal. No. 1,343,439; June 15; v. 275; p. 474.
Fuel-reservoir. J. S. Brennan. No. 1,343,343; June 15; v. 275; p. 455.
Funnel, Automatic self-closing. G. H. Grove. No. 1,343,867; June 15; v. 275; p. 560.
Fur-tumbling apparatus. B. and S. Friedman. No. 1,343,816; June 15; v. 275; p. 549.
Furnace: *See*—
Air-heating furnace.
Furnace, T. B. Kitson. No. 1,343,457; June 15; v. 275; p. 477.
Furnace, A. C. Osborn, Jr. No. 1,343,470; June 15; v. 275; p. 479.
Furnace-charging device. W. E. Moore. No. 1,343,465; June 15; v. 275; p. 479.
Furnaces, Port construction for metallurgical. G. F. Downs and H. F. Miller, Jr. No. 1,343,314; June 15; v. 275; p. 449.
Furnaces, Port construction for metallurgical. G. F. Downs and H. F. Miller, Jr. No. 1,343,315; June 15; v. 275; p. 450.
Fuse, Delay-action. F. D. Sprague and P. W. Allison. No. 1,343,415; June 15; v. 275; p. 469.
Fuses, Apparatus for setting time-. E. Schneider. No. 1,343,588; June 15; v. 275; p. 503.
Gage: *See*—
Lawn-edge-trimming gage.
Galvanizing-furnace. C. A. Porath. No. 1,343,843; June 15; v. 275; p. 555.
Game. V. Niewaleski. No. 1,343,838; June 15; v. 275; p. 554.
Garment support and stretcher. M. Leth. No. 1,343,397; June 15; v. 275; p. 466.

Gas-burner. J. H. Ackroyd. No. 1,343,700; June 15; v. 275; p. 526.
Gases, Apparatus for separating suspended particles from. W. A. Schmidt and G. C. Roberts. No. 1,343,482; June 15; v. 275; p. 482.
Gases, Means for separating suspended matter from. W. A. Schmidt. No. 1,343,285; June 15; v. 275; p. 444.
Gate. D. Jordan. No. 1,343,367; June 15; v. 275; p. 460.
Gate: *See*—
Farm-gate.
Gate and clip therefor, Scoop-. O. K. Grove. No. 1,343,263; June 15; v. 275; p. 440.
Gear-cutting machine. J. C. Kopf. No. 1,343,396; June 15; v. 275; p. 466.
Gear, Draft-. H. F. Woernley. No. 1,343,295; June 15; v. 275; p. 446.
Gear, Draft-. H. F. Woernley. No. 1,343,296; June 15; v. 275; p. 446.
Gear-puller. J. E. Crim and H. E. Brower. No. 1,343,661; June 15; v. 275; p. 518.
Gearing. A. M. Alexander. No. 1,343,189; June 15; v. 275; p. 427.
Generator set. R. S. Bolger. No. 1,343,494; June 15; v. 275; p. 485.
Glass-grinding machines, Apparatus for supplying and grading abrasives to. J. W. Crutkshank. No. 1,343,710; June 15; v. 275; p. 528.
Glass-grinding machines, Supplying and grading sand to. J. W. Crutkshank. No. 1,343,711; June 15; v. 275; p. 528.
Glass with colored figures in the glass mass, Manufacturing decorated articles of. A. Ahlin. No. 1,343,806; June 15; v. 275; p. 547.
Glazing compounds, Device for applying. H. B. and O. C. Sabin. No. 1,343,408; June 15; v. 275; p. 468.
Gong, Motor-. J. R. Hamilton. No. 1,343,365; June 15; v. 275; p. 460.
Governor. B. E. Cederstrom. No. 1,343,389; June 15; v. 275; p. 465.
Governor, Automatic. F. J. Brumme. No. 1,343,808; June 15; v. 275; p. 548.
Gramophone-drive. F. Myers. No. 1,343,640; June 15; v. 275; p. 514.
Grinding machine, Toric-lens-. R. H. and R. J. Beck. No. 1,343,492; June 15; v. 275; p. 484.
Grooves, Machine for forming. W. F. Fischer. No. 1,343,554; June 15; v. 275; p. 497.
Gun, Spray-. A. B. Hull. No. 1,343,780; June 15; v. 275; p. 542.
Hair on the head, Apparatus for treatment of loss of. J. Krauer. No. 1,343,512; June 15; v. 275; p. 488.
Handle: *See*—
Brake-valve handle. Tool-handle.
Hand-brake. H. A. Wahlert. No. 1,343,697; June 15; v. 275; p. 526.
Hanger: *See*—
Shade-hanger.
Hanger. F. C. Hall. No. 1,343,364; June 15; v. 275; p. 459.
Harrow riding attachment. C. K. Johnson. No. 1,343,827; June 15; v. 275; p. 551.
Hatpin attachment. J. B. Maserang. No. 1,343,736; June 15; v. 275; p. 533.
Hats, Apparatus for sizing and shaping. A. Slocum. No. 1,343,887; June 15; v. 275; p. 564.
Hats, Machine for hardening. M. Krajnah and J. Madunicky. No. 1,343,729; June 15; v. 275; p. 532.
Headlight, Dirigible. G. F. Messer. No. 1,343,822; June 15; v. 275; p. 550.
Headlights, Dimmer for automobile-. O. C. Patton. No. 1,343,886; June 15; v. 275; p. 563.
Heat-conserving apparatus. R. N. Ehrhart. No. 1,343,666; June 15; v. 275; p. 519.
Heater: *See*—
Chimney-heater.
Heat-engine. P. Okey. No. 1,343,577; June 15; v. 275; p. 501.
Heating and ventilating device. J. C. Miles. No. 1,343,330; June 15; v. 275; p. 453.
Heating device. S. Goodman. No. 1,343,670; June 15; v. 275; p. 520.
Heel-attaching means. J. A. Mitchell. No. 1,343,638; June 15; v. 275; p. 513.
Heel, Cushion-. C. C. Stolzenburg. No. 1,343,528; June 15; v. 275; p. 492.
Heel, Detachable. A. V. Des Moineaux. No. 1,343,353; June 15; v. 275; p. 457.
Heel-lifts, Apparatus for cutting. G. Basler. No. 1,343,759; June 15; v. 275; p. 538.
Hinge for desk-tops. R. M. Milligan. No. 1,343,332; June 15; v. 275; p. 453.
Hob, Combination roughing and finishing. C. G. Olson and N. Trbojevich. No. 1,343,276; June 15; v. 275; p. 442.
Hog-holder. A. B. Johnson and V. Green. No. 1,343,213; June 15; v. 275; p. 431.
Hog-holding device. H. M. Trout. No. 1,343,596; June 15; v. 275; p. 505.
Hoisting-tackle, Portable hanger for. T. Patterson. No. 1,343,641; June 15; v. 275; p. 514.
Holding device for one-armed persons. C. Young. No. 1,343,606; June 15; v. 275; p. 507.
Hoop: *See*—
Cheese-hoop.
Horseshoe. A. E. Mickelson. No. 1,343,874; June 15; v. 275; p. 561.
Hose and garment supporter. J. E. Lindsay. No. 1,343,514; June 15; v. 275; p. 489.
Hose-coupling. A. Rubin. No. 1,343,853; June 15; v. 275; p. 557.
Humidifying apparatus. V. W. McAdams. No. 1,343,873; June 15; v. 275; p. 561.
Hydraulic transmission mechanism. J. Reton. No. 1,343,749; June 15; v. 275; p. 536.
Hydraulic transmission mechanism. J. W. Rosche. No. 1,343,338; June 15; v. 275; p. 454.
Ice-cream-cone-holder insert for bags. S. J. Downing and F. A. Sutherland. No. 1,343,252; June 15; v. 275; p. 438.
Ice-cream package. W. A. Haas. No. 1,343,391; June 15; v. 275; p. 465.
Ice-machine. H. E. Willsie. (Reissue.) No. 14,885; June 15; v. 275; p. 565.
Ice-machines of the compression type, Crank-mounting for. H. W. Rottel. No. 1,343,407; June 15; v. 275; p. 468.
Indicator: *See*—
Automobile-indicator. Direction-indicator.
Automobile direction-indicator. Tire-mileage indicator.
Vehicle loading-indicator.
Ice-tractor. D. H. Scott. No. 1,343,687; June 15; v. 275; p. 523.
Internal-combustion engine. B. F. Baughman. No. 1,343,863; June 15; v. 275; p. 559.
Internal-combustion engine. S. I. Fekete. No. 1,343,668; June 15; v. 275; p. 520.
Internal-combustion engine. J. D. Weln. No. 1,343,858; June 15; v. 275; p. 558.
Internal-combustion engine, Rotary. E. Durr. No. 1,343,316; June 15; v. 275; p. 450.
Irrigation means. W. H. Lewis. No. 1,343,871; June 15; v. 275; p. 561.
Jack: *See*—
Lifting-jack.
Jack. C. J. Livering. No. 1,343,872; June 15; v. 275; p. 561.
Jewelry, Cluster-back for. O. P. Bailer. No. 1,343,246; June 15; v. 275; p. 437.
Joint: *See*—
Rail-joint.
Jumper or crib. M. J. Ruddy. No. 1,343,523; June 15; v. 275; p. 491.
Junction-boxes, Pipe connection for. W. M. Waltman. No. 1,343,877; June 15; v. 275; p. 562.
Key-guard. S. Caraiun. No. 1,343,615; June 15; v. 275; p. 509.
Key-ring. V. Davis. No. 1,343,495; June 15; v. 275; p. 485.
Ladder and ironing-table, Combination. S. Gellis. No. 1,343,500; June 15; v. 275; p. 486.
Lamp attachment, Phonograph-. R. L. Cuzen. No. 1,343,767; June 15; v. 275; p. 539.
Lamp-bracket. R. F. Ferguson. No. 1,343,499; June 15; v. 275; p. 486.
Lamp, Electric. J. Cathrill. No. 1,343,309; June 15; v. 275; p. 448.
Lamp holder, Electric-. V. Martinez. No. 1,343,573; June 15; v. 275; p. 501.
Laundry-checking device. J. H. Todd. No. 1,343,423; June 15; v. 275; p. 471.
Lawn-edge-trimming gage. J. Lees. No. 1,343,269; June 15; v. 275; p. 441.
Lead and like ores and products, Smelting. T. W. Cavers. No. 1,343,656; June 15; v. 275; p. 517.
Ledger, Office-. J. F. G. Jongepier. No. 1,343,879; June 15; v. 275; p. 562.
Leg, Artificial. L. C. Desoutter. No. 1,343,617; June 15; v. 275; p. 509.
Lenses, Grinding and polishing. A. C. Robertson and F. Volk; No. 1,343,522; June 15; v. 275; p. 490.
Level-indicator and inclinometer. F. W. Charles. No. 1,343,657; June 15; v. 275; p. 517.
Lifting-jack. G. O Leopold. No. 1,343,732; June 15; v. 275; p. 532.
Lifting-jack. D. C. Mulvihill. No. 1,343,274; June 15; v. 275; p. 442.
Lifting-jack. D. C. Mulvihill. No. 1,343,275; June 15; v. 275; p. 442.
Lifting-jack. F. L. Rapson. No. 1,343,845; June 15; v. 275; p. 555.
Limb, Artificial. O. E. Worman. No. 1,343,297; June 15; v. 275; p. 446.
Limb, Artificial. O. E. Worman. No. 1,343,298; June 15; v. 275; p. 446.
Liquid-receptacle. H. S. Barrows. No. 1,343,299; June 15; v. 275; p. 447.
Loading apparatus. H. D. Pratt. No. 1,343,746; June 15; v. 275; p. 535.
Lock: *See*—
Automobile-lock. Electric lock.
Automobile-pedal lock. Meter-lock.
Bicycle-lock. Nut-lock.
Cylinder-lock.
Lock. I. A. McCormack. No. 1,343,271; June 15; v. 275; p. 441.
Locking device. J. P. Linden. No. 1,343,733; June 15; v. 275; p. 532.
Locks, Fixing device of cylinder-. V. J. M. Eras and H. J. J. M. Lips. No. 1,343,712. June 15; v. 275; p. 529.

Locomotives, Footplate for electric. A. Wallace. No. 1,343,698; June 15; v. 275; p. 526.
Log-rafting apparatus. F. Blewer. No. 1,343,429; June 15; v. 275; p. 472.
Loom, Drop-box. A. A. Davenport. No. 1,343,663; June 15; v. 275; p. 519.
Lumber-piling device. F. E. Trefren. No. 1,343,799; June 15; v. 275; p. 546.
Mailing sheet or blank. W. E. Swift. No. 1,343,419; June 15; v. 275; p. 470.
Mandrel, Expanding. M. E. Moore. No. 1,343,273; June 15; v. 275; p. 442.
Marking or stamping device, Automatic. S. G. McPheters. No. 1,343,633; June 15; v. 275; p. 512.
Massage device. W. M. Chadwick. No. 1,343,432; June 15; v. 275; p. 473.
Mat: *See*—
Foot-mat.
Match-box holder. M. Dettman. No. 1,343,354; June 15; v. 275; p. 457.
Mercerizing machines, Means for electrically controlling skein-. J. E. Wild and W. W. Caldwell. No. 1,343,804; June 15; v. 275; p. 547.
Metal and rolling same, Beaded strip of. T. Sloper. No. 1,343,753; June 15; v. 275; p. 537.
Metal-plating, Process and apparatus for. R. J. Piersol. No. 1,343,842; June 15; v. 275; p. 555.
Metal shelving. A. H. Levene. No. 1,343,327; June 15; v. 275; p. 452.
Metal-working machine. P. P-G. Hall. No. 1,343,503; June 15; v. 275; p. 486.
Meter-lock. H. H. Roe. No. 1,343,851; June 15; v. 275; p. 556.
Mine-trolleys, Cut-out switch for. J. Racosky. No. 1,343,475; June 15; v. 275; p. 480.
Mold: *See*—
Concrete-mold.
Mold. C. P. Whisler. No. 1,343,425; June 15; v. 275; p. 471.
Molding hollow-bodies. C. T. Allcutt. No. 1,343,191; June 15; v. 275; p. 427.
Molding-machine. J. E. Bomberg. No. 1,343,386; June 15; v. 275; p. 464.
Molding-machine. W. Lewis. No. 1,343,835; June 15; v. 275; p. 553.
Molding machine, Jar-. W. Lewis. No. 1,343,836; June 15; v. 275; p. 553.
Motorcycle. F. J. Onar. No. 1,343,788; June 15; v. 275; p. 544.
Motor: *See*—
Phonograph-motor.
Motors, Method and apparatus for starting. J. H. Hartner. No. 1,343,451; June 15; v. 275; p. 476.
Motors, Starting device for electric. G. W. Huey. No. 1,343,212; June 15; v. 275; p. 431.
Motors, Starting mechanism for electric. G. E. Slocum. No. 1,343,411; June 15; v. 275; p. 469.
Nitrostarch, Stabilizing. B. J. Flurschelm. No. 1,343,317; June 15; v. 275; p. 450.
Nozzles, Cleaner for blow-torch. O. Benz. No. 1,343,705; June 15; v. 275; p. 527.
Nut-lock. W. S. Pierce, Jr. No. 1,343,334; June 15; v. 275; p. 453.
Oil-burner. R. Hoffman. No. 1,343,673; June 15; v. 275; p. 521.
Oil-burner. R. Hoffman. No. 1,343,672; June 15; v. 275; p. 520.
Oil-cooling apparatus. O. C. Funderburk. No. 1,343,669; June 15; v. 275; p. 520.
Oil-heaters and lamps, Safety device for. J. L. MacDowall and W. K. Bassford. No. 1,343,217; June 15; v. 275; p. 432.
Oil-tank. T. J. Rutherford. No. 1,343,480; June 15; v. 275; p. 481.
Oils, Distillation of petroleum-. R. E. Humphreys and W. M. Burton. No. 1,343,674; June 15; v. 275; p. 521.
Oils, Treating fatty. C. Ellis. No. 1,343,255; June 15; v. 275; p. 439.
Oils, Vaporizer for heavy. C. C. Manker. No. 1,343,635; June 15; v. 275; p. 513.
Ophthalmic mounting. G. H. Day. No. 1,343,437; June 15; v. 275; p. 474.
Ordnance device. W. B. D. Gay. No. 1,343,557; June 15; v. 275; p. 498.
Ore-concentrating table. B. A. Hughes. No. 1,343,266; June 15; v. 275; p. 440.
Ore-feeder. C. C. Hamill. No. 1,343,868; June 15; v. 275; p. 560.
Ores or other materials, Process and apparatus for concentrating. S. H. Dolbear. No. 1,343,313; June 15; v. 275; p. 449.
Ores, Treating. G. L. Collord. No. 1,343,249; June 15; v. 275; p. 438.
Ores, Treating. G. L. Collord. No. 1,343,250; June 15; v. 275; p. 438.
Package, Air or moisture proof. J. S. Stokes. No. 1,343,235; June 15; v. 275; p. 435.
Package-opening means. R. T. Frost. No. 1,343,360; June 15; v. 275; p. 458.
Pan: *See*—
Pie-pan. Sterilizing-pan.
Paper-making machine. A. J. Haug. No. 1,343,505; June 15; v. 275; p. 487.
Paper-package and closure therefor. E. F. Hulbert. No. 1,343,724; June 15; v. 275; p. 531.
Paper tubes to winders, Tool for attaching. C. L. Lytton. No. 1,343,632; June 15; v. 275; p. 512.
Pen and pencil attachment. L. S. Zebrock, Jr. No. 1,343,245; June 15; v. 275; p. 437.
Pen, Fountain-. A. C. Rader. No. 1,343,521; June 15; v. 275; p. 490.
Penmanship, Device for teaching. J. D. W. Williams. No. 1,343,244; June 15; v. 275; p. 437.
Peroxid, Forming manganese. H. C. Chapin. No. 1,343,390; June 15; v. 275; p. 465.
Phenolic condensation products, Manufacture of. C. A. Nash. No. 1,343,575; June 15; v. 275; p. 501.
Phonograph-motor. A. Roemer. No. 1,343,584; June 15; v. 275; p. 503.
Phonograph-needle. J. Heino. No. 1,343,507; June 15; v. 275; p. 487.
Photographic-plate holder. Y. Yamada. No. 1,343,653; June 15; v. 275; p. 516.
Piano-bridle-strap fastener. T. J. Malcolm. No. 1,343,516; June 15; v. 275; p. 489.
Piano-player, Mechanical. C. H. Taylor. No. 1,343,237; June 15; v. 275; p. 436.
Pianos, Controlling mechanism for player-. C. Freborg. No. 1,343,442; June 15; v. 275; p. 475.
Pianos, Incorrect-position indicator for. L. L. Tiffany. No. 1,343,595; June 15; v. 275; p. 505.
Picture-hook. L. S. Tyler. No. 1,343,855; June 15; v. 275; p. 557.
Picker: *See*—
Potato-picker.
Pie-pan. G. A. Kinkel. No. 1,343,395; June 15; v. 275; p. 466.
Pigment and its manufacture. V. M. Goldschmidt. No. 1,343,446; June 15; v. 275; p. 475.
Pigment containing titanium-oxygen compound. V. M. Goldschmidt. No. 1,343,447; June 15; v. 275; p. 475.
Pigments, Producing. R. Nielsen and V. M. Goldschmidt. No. 1,343,468; June 15; v. 275; p. 479.
Pin: *See*—
Stacking-pin.
Pipe-blister-removing device. W. Ludwig. No. 1,343,571; June 15; v. 275; p. 500.
Pipe-clamp. J. E. Branin. No. 1,343,548; June 15; v. 275; p. 496.
Pipe coupling, Fluid-. B. Grencl. No. 1,343,819; June 15; v. 275; p. 550.
Pipe-turner. J. Becker. No. 1,343,300; June 15; v. 275; p. 447.
Pipes, Clip for stopping leakage in damaged. T. D. Meredith. No. 1,343,463; June 15; v. 275; p. 478.
Piping. C. M. Buller. No. 1,343,706; June 15; v. 275; p. 527.
Piston-ring. R. M. Jordan. No. 1,343,828; June 15; v. 275; p. 552.
Planter. F. H. Schutter. No. 1,343,286; June 15; v. 275; p. 444.
Plastics, Treating vulcanizable. J. J. Shea. No. 1,343,377; June 15; v. 275; p. 462.
Plug, Connecting-. S. J. La Montaine. No. 1,343,676; June 15; v. 275; p. 521.
Pneumatic cushion. A. C. Eggers. No. 1,343,357; June 15; v. 275; p. 458.
Pocket-guard. C. H. Long. No. 1,343,371; June 15; v. 275; p. 461.
Polish, Wood and metal. J. Friedman. No. 1,343,259; June 15; v. 275; p. 439.
Pot: *See*—
Coffee-pot.
Potato-picker. C. Sanz. No. 1,343,586; June 15; v. 275; p. 503.
Power-developing apparatus. H. T. Herr. No. 1,343,671; June 15; v. 275; p. 520.
Power plants, Manufacture of. H. D. Slamberg. No. 1,343,485; June 15; v. 275; p. 483.
Presses, Controlling device for punch-. W. J. Parkinson. No. 1,343,580; June 15; v. 275; p. 502.
Presses, Magnetic feeding device for blanking-. R. S. Smith. No. 1,343,648; June 15; v. 275; p. 516.
Printer's table. E. L. and J. West. No. 1,343,600; June 15; v. 275; p. 506.
Printing-plates, Holding device for. J. C. Mast. No. 1,343,220; June 15; v. 275; p. 433.
Projectile. M. Radakovich. No. 1,343,747; June 15; v. 275; p. 536.
Puller: *See*—
Gear-puller.
Pump, Counterbalanced. C. E. Anderson. No. 1,343,427; June 15; v. 275; p. 472.
Pump, Internal-combustion engine. C. C. Thomas. No. 1,343,693; June 15; v. 275; p. 525.
Pump-priming device, Automatic. R. Miller. No. 1,343,574; June 15; v. 275; p. 501.
Pump with sight-feed, Automatic oil-. J. J. Langmack. No. 1,343,677; June 15; v. 275; p. 521.
Pumps, Automatic valve for air-lift. H. T. Abrams. No. 1,343,190; June 15; v. 275; p. 427.
Radiator, Automobile-. C. Costello and S. G. Stoll. No. 1,343,352; June 15; v. 275; p. 457.
Radiator, Gas-. C. C. Manker. No. 1,343,634; June 15; v. 275; p. 512.
Radiator-shield. C. W. G. Sodemann. No. 1,343,414; June 15; v. 275; p. 469.
Rail-joint. C. J. Winslow. No. 1,343,605; June 15; v. 275; p. 507.

Railway-switch. E. P. Scholes. No. 1,343,483; June 15; v. 275; p. 482.
Railway-tie. J. R. Dooley. No. 1,343,813; June 15; v. 275; p. 549.
Railway-vehicles, Suspension of liquid-containers on. K. von Kando. No. 1,343,241; June 15; v. 275; p. 436.
Rake. A. Hinkle. No. 1,343,366; June 15; v. 275; p. 460.
Receptacle-closures, Cementitious material for. F. Roberts and J. M. Griffin. No. 1,343,282; June 15; v. 275; p. 444.
Receptacle-filling machine. D. A. Urie. No. 1,343,696; June 15; v. 275; p. 525.
Reel: *See*—
Film-reel.
Refrigerating machine. H. E. Willsie. (Reissue.) No. 14,884; June 15; v. 275; p. 565.
Refrigerator or like receptacle. D. E. Shongo. No. 1,343,688; June 15; v. 275; p. 523.
Relay. C. O. Harrington. No. 1,343,719; June 15; v. 275; p. 530.
Respiration, Producing artificial. G. P. E. Stolle. No. 1,343,846; June 15; v. 275; p. 483.
Retouching-screen. I. Boysen. No. 1,343,613; June 15; v. 275; p. 509.
Rheostat, Compressible. A. Papini. No. 1,343,472; June 15; v. 275; p. 480.
Rifle. H. H. Jones. No. 1,343,456; June 15; v. 274; p. 477.
Rim, Demountable. O. L. Ingram. No. 1,343,394; June 15; v. 275; p. 465
Ring: *See*—
Key-ring. Piston-ring.
Robe-securing device. R. Reid. No. 1,343,847; June 15; v. 275; p. 555.
Rod: *See*—
Automobile steering-rod.
Roll-heating device. A. S. Rice. No. 1,343,849; June 15; v. 275; p. 556.
Rolling-mill repeater. A. J. Townsend. No. 1,343,652; June 15; v. 275; p. 516.
Roof, Detachable. E. W. Test. No. 1,343,291; June 15; v. 275; p. 445.
Roof-gutter or eaves-trough. C. G. Marberg. No. 1,343,461; June 15; v. 275; p. 478.
Roofing, Built-up. H. H. Robertson. No. 1,343,478; June 15; v. 275; p. 481.
Rope-making, Spreader for. W. H. Spencer. No. 1,343,854; June 15; v. 275; p. 557.
Rotary engine. E. A. Miller. No. 1,343,331; June 15; v. 275; p. 453.
Rubber articles and making same, Material for reinforcing. R. F. Kinsley. No. 1,343,368; June 15; v. 275; p. 461.
Rubber vulcanization and the products thereof. S. B. Malony. No. 1,343,224; June 15; v. 275; p. 433.
Rule, Caliper-. H. J. Ostdiek. No. 1,343,227; June 15; v. 275; p. 434.
Rule for cutting roof-rafters. W. A. Winn. No. 1,343,604; June 15; v. 275; p. 507.
Rule, Slide-. C. J. Davidson. No. 1,343,549; June 15; v. 275; p. 496.
Running-board structure. F. F. Reisinger. No. 1,343,281; June 15; v. 275; p. 443.
Safety-zone indicator. S. H. Shackelford. No. 1,343,524; June 15; v. 275; p. 491.
Salts, Recovery or purification of potassium. W. Hirschkind. No. 1,343,508; June 15; v. 275; p. 487.
Sash, Means for lifting, lowering, and securing a window. F. J. Johnson. No. 1,343,322; June 15; v. 275; p. 451.
Screen: *See*—
Retouching-screen.
Screen, Non-cloggable self-cleaning. A. G. Turner. No. 1,343,292; June 15; v. 275; p. 445.
Screw-anchor, Expanding. J. Blackburn. No. 1,343,384; June 15; v. 275; p. 464.
Screw-wrench, Quick-adjustable. J. M. Grenzfelder. No. 1,343,448; June 15; v. 275; p. 475.
Seaming machine, Double-. A. W. Wheeler. No. 1,343,538; June 15; v. 275; p. 494.
Seat: *See*—
Car-seat.
Sectional spring. S. Gainer. No. 1,343,620; June 15; v. 275; p. 510.
Seed-selecting mechanism. R. A. Vest. No. 1,343,802; June 15; v. 275; p. 546.
Sewage and other liquids, Separation and settlement of solids and matters from. W. Clifford. No. 1,343,764; June 15; v. 275; p. 529.
Sewer-basins, Traveling apparatus for cleaning. G. W. Otterson; No. 1,343,471; June 15; v. 275; p. 480.
Sewing-machine. R. K. Hohmann. No. 1,343,823; June 15; v. 275; p. 550.
Sewing machine, Buttonhole-. F. A. Reece. No. 1,343,278; June 15; v. 275; p. 443.
Sewing machine, Buttonhole-. F. A. Reece. No. 1,343,337; June 15; v. 275; p. 454.
Shade attachment, Window-. M. Warner and C. Whetstone. No. 1,343,859; June 15; v. 275; p. 558.
Shade hanger, Window-. W. H. Forse, Jr. No. 1,343,771; June 15; v. 275; p. 540.
Shaft-coupling. C. W. McCormick. No. 1,343,272; June 15; v. 275; p. 442.
Sharpener, Disk-. C. E. Bray. No. 1,343,342; June 15; v. 275; p. 455.
Sharpener, Pencil-. J. Sontheimer. No. 1,343,796; June 15; v. 275; p. 545.
Shaving kit. J. Barrett. No. 1,343,703; June 15; v. 275; p. 527.
Shelf. F. Grammich. No. 1,343,818; June 15; v. 275; p. 549.
Sheet-gripper. W. E. Wegener. No. 1,343,537; June 15; v. 275; p. 493.
Sheet-Handling machine. H. M. Barber. No. 1,343,608; June 15; v. 275; p. 507.
Shingle. F. Schmitte. No. 1,343,792; June 15; v. 275; p. 544.
Shingle machine, Composite-tapered-. R. A. Plumb. No. 1,343,581; June 15; v. 275; p. 502.
Ship. J. Arbuthnot. No. 1,343,491; June 15; v. 275; p. 484.
Ship construction. R. F. Hartung. No. 1,343,392; June 15; v. 275; p. 465.
Shock-absorber, Railway-crossing. R. R. Hargrave. No. 1,343,869; June 15; v. 275; p. 560.
Shock-absorbing wheel. E. J. Gould. No. 1,343,774; June 15; v. 275; p. 541.
Shock-holder. D. A. Haas. No. 1,343,624; June 15; v. 275; p. 510.
Shocker. C. H. Groves. No. 1,343,775; June 15; v. 275; p. 541.
Shoe, Muck-. W. J. Curry. No. 1,343,436; June 15; v. 275; p. 473.
Shoe-polisher. J. Mork. No. 1,343,466; June 15; v. 275; p. 479.
Shoe-sole protector. D. Marinsky. No. 1,343,329; June 15; v. 275; p. 452.
Shoes, Heel attachment for. H. A. Williams. No. 1,343,602; June 15; v. 275; p. 506.
Shoes, Making. G. Pollock. (Reissue.) No. 14,882; June 15; v. 275; p. 564.
Side-frame arrangement. H. E. Doerr. No. 1,343,618; June 15; v. 275; p. 509.
Sign, Interchangeable road-. A. W. Buss. No. 1,343,247; June 15; v. 275; p. 437.
Signal: *See*—
Automobile-signal.
Signaling or indicating apparatus especially applicable for signaling orders and numerical data, Electrical. E. A. Graham. No. 1,343,362; June 15; v. 275; p. 459.
Signaling system. R. D. Conway. No. 1,343,196; June 15; v. 275; p. 428.
Signaling system, Electrical. H. D. Murphy. No. 1,343,467; June 15; v. 275; p. 479.
Silo. J. H. Comer. No. 1,343,809; June 15; v. 275; p. 548.
Slide. J. Unsworth. No. 1,343,598; June 15; v. 275; p. 505.
Soap-dispensing device. C. E. Ewing. No. 1,343,815; June 15; v. 275; p. 549.
Socket, Spring swivel-jar. P. Arbon. No. 1,343,542; June 15; v. 275; p. 494.
Socket, Swivel-jar. P. Arbon. No. 1,343,541; June 15; v. 275; p. 494.
Socket-wrench. A. Stern. No. 1,343,692; June 15; v. 275; p. 525.
Socket-switch, Heat-dissipating. R. D. Smith. No. 1,343,690; June 15; v. 275; p. 524.
Socket switch, Lamp-dimming-. R. D. Smith. No. 1,343,689; June 15; v. 275; p. 524.
Soldering sheet-metal vessels, Apparatus for. G. H. Bennett. No. 1,343,493; June 15; v. 275; p. 484.
Solidifying or concentrating materials, Apparatus for. J. W. Leitch. No. 1,343,833; June 15; v. 275; p. 553.
Spacer-block for refractory arches. A. H. Willett. No. 1,343,243; June 15; v. 275; p. 437.
Spanner. J. J. Woodward. No. 1,343,882; June 15; v. 275; p. 563.
Spanners, wrenches, vises, clamps, pipe-cutters, pipe-grips, and like tools, Construction of adjustable. F. Humphris. No. 1,343,826; June 15; v. 275; p. 551.
Spark-plug changer. A. Camporini and J. Rena. No. 1,343,348; June 15; v. 275; p. 456.
Spark-plug insulators, Making. J. Schari. No. 1,343,686; June 15; v. 275; p. 523.
Spark-plug, Telltale. I. Harris. No. 1,343,626; June 15; v. 275; p. 511.
Spark-plugs, Attachment for. W. J. O'Gorman. No. 1,343,372; June 15; v. 275; p. 461.
Spark-plugs, Automatic cleaning device for. W. C. Oursler. No. 1,343,743; June 15; v. 275; p. 535.
Speed transmission, Gearless variable-. W. Dunn. No. 1,343,254; June 15; v. 275; p. 438.
Spinning-machine. G. L. Rice. No. 1,343,230; June 15; v. 275; p. 434.
Spinning-machines, Yarn-catcher for. G. Bell. No. 1,343,704; June 15; v. 275; p. 527.
Spring structure. O. R. Hunt. No. 1,343,365; June 15; v. 275; p. 499.
Spring: *See*—
Air-spring. Sectional spring.
Vehicle-spring.
Sprinkler systems, Dry-pipe valve for. E. G. Harris. No. 1,343,776; June 15; v. 275; p. 541.
Stacking-pin. E. W. Collins. No. 1,343,351; June 15; v. 275; p. 457.
Stair structure. J. T. Nesdall. No. 1,343,739; June 15; v. 275; p. 534.

Stamps, labels, or sealing-strips to containers, Machine for applying. G. W. Gwinn. No. 1,343,264; June 15; v. 275; p. 440.
Stand. E. F. Philbrook, Jr. No. 1,343,229; June 15; v. 275; p. 434.
Staple-setter. F. C. Suchy. No. 1,343,289; June 15; v. 275; p. 445.
Steam-expansion engine. V. B. Harley-Mason. No. 1,343,449; June 15; v. 275; p. 476.
Steel, Carbonizing. T. R. Ferguson and E. L. Larson. No. 1,343,359; June 15; v. 275; p. 458.
Sterilizing-pan. C. C. Herbert. No. 1,343,779; June 15; v. 275; p. 542.
Stock indicating and recording device. W. M. Kelly. No. 1,343,511; June 15; v. 275; p. 488.
Store construction. J. M. Turner. No. 1,343,801; June 15; v. 275; p. 546.
Stove. C. J. Berglann. No. 1,343,341; June 15; v. 275; p. 455.
Stove, Heating-. G. G. Scarborough. No. 1,343,645; June 15; v. 275; p. 515.
Stove, Portable heating-. M. J. Otto. No. 1,343,578; June 15; v. 275; p. 502.
Strainer. H. Mock. No. 1,343,679; June 15; v. 275; p. 522.
Straw-spreader. G. A. Hensel. No. 1,343,265; June 15; v. 275; p. 440.
Sucker-rods, Tool for replacing. E. B. Hatch. No. 1,343,821; June 15; v. 275; p. 550.
Sugar, Extracting. L. Naudet. No. 1,343,737; June 15; v. 275; p. 533.
Suitcases, valises, and the like, Disappearing handle for. H. J. Chilton. No. 1,343,195; June 15; v. 275; p. 428.
Sulfate from solution, Removal of sodium. F. A. Freeth and H. E. Cocksedge. No. 1,343,443; June 15; v. 275; p. 475.
Sun-dial and compass. M. M. Madden. No. 1,343,515; June 15; v. 275; p. 489.
Switch: *See*—
Railway-switch. Socket-switch.
Switch. J. Schneider. No. 1,343,793; June 15; v. 275; p. 545.
Syringe. E. Neil. No. 1,343,787; June 15; v. 275; p. 543.
Table: *See*—
Ore-concentrating table. Printer's table.
Work-supporting table.
Table for gravitational separation of comminuted material, Riffled pneumatic concentrating-. C. W. Eccleston. No. 1,343,497; June 15; v. 275; p. 485.
Tablet. C. V. Hayes. No. 1,343,778; June 15; v. 275; p. 542.
Tag, Shipping-. L. F. Troja. (Reissue.) No. 14,883; June 15; v. 275; p. 565.
Tag-threading machine. F. C. Suchy. No. 1,343,290; June 15; v. 275; p. 445.
Tank. K. I. Small. No. 1,343,412; June 15; v. 275; p. 469.
Tanning machinery. J. and J. Wright. No. 1,343,756; June 15; v. 275; p. 537.
Telephone apparatus for the deaf. E. C. Hanson. No. 1,343,717; June 15; v. 275; p. 530.
Telephone-exchange automatic switching system. E. A. Mellinger. No. 1,343,462; June 15; v. 275; p. 478.
Telephone-exchanges, System for interconnecting manual and automatic. G. D. Wolf. No. 1,343,489; June 15; v. 275; p. 484.
Telephone system. G. Grabe. No. 1,343,714; June 15; v. 275; p. 529.
Tent and hammock. L. E. Trimm. No. 1,343,800; June 15; v. 275; p. 546.
Testing apparatus. G. O. Berger. No. 1,343,611; June 15; v. 275; p. 508.
Thermometer operated by the pressure of saturated vapor. L. P. N. Jeannet. No. 1,343,454; June 15; v. 275; p. 477.
Threads, Work-holder for milling. L. Court. No. 1,343,435; June 15; v. 275; p. 473.
Throttle-controlling mechanism. L. L. Scott. No. 1,343,750; June 15; v. 275; p. 536.
Ticket holder, Reversible railway-. W. Levy. No. 1,343,569; June 15; v. 275; p. 500.
Tie-plate. C. T. Grimm. No. 1,343,262; June 15; v. 275; p. 440.
Time-announcer, Phonographic. J. G. Blessing. No. 1,343,302; June 15; v. 275; p. 447.
Timepieces, Pin-anchor escapement for. T. Toda. No. 1,343,798; June 15; v. 275; p. 546.
Tank: *See*—
Automobile-tank. Toy tank.
Oil-tank. Vacuum-tank.
Tie: *See*—
Railway-tie.
Tire. C. E. Williams. No. 1,343,860; June 15; v. 275; p. 559.
Tire. C. E. Williams. No. 1,343,861; June 15; v. 275; p. 559.
Tire and filling therefor, Resilient. J. Stander. No. 1,343,233; June 15; v. 275; p. 435.
Tire casings and tubes, Machine for building. W. R. Major and F. H. Grove. No. 1,343,399; June 15; v. 275; p. 466.
Tire-filler, Resilient. A. L. Runyan. No. 1,343,685; June 15; v. 275; p. 523.
Tire for automobiles, Demountable metal. F. Patayo. No. 1,343,840; June 15; v. 275; p. 554.
Tire-mileage indicator. T. T. and J. W. Watson. No. 1,343,535; June 15; v. 275; p. 493.
Tire, Resilient. A. A. Culbertson. No. 1,343,766; June 15; v. 275; p. 539.
Tire-support. H. M. Smith. No. 1,343,526; June 15; v. 275; p. 491.
Tire, Vehicle. J. Allend. No. 1,343,540; June 15; v. 275; p. 494.
Tires, Antiskid device for. G. B. Waite. No. 1,343,293; June 15; v. 275; p. 445.
Tires, Manufacture of. C. Macbeth. No. 1,343,460; June 15; v. 275; p. 478.
Tires, Tread-block for. G. B. Waite. No. 1,343,294; June 15; v. 275; p. 446.
Titanium compounds, Producing. P. Farup. No. 1,343,441; June 15; v. 275; p. 474.
Titanium products and producing same from precipitated titanium hydrates. R. Nielsen and V. M. Goldschmidt. No. 1,343,469; June 15; v. 275; p. 479.
Tobacco-pipe, cigar-holder, and the like, A. Dunhill and T. G. Manderville. No. 1,343,253; June 15; v. 275; p. 438.
Tongs, Fruit-jar. F. M. Masker. No. 1,343,518; June 15; v. 275; p. 489.
Tongue, Cultivator-. I. A. Franklin and S. E. Mangum. No. 1,343,258; June 15; v. 275; p. 439.
Tool, Dressing-. W. E. Ross. No. 1,343,871; June 15; v. 275; p. 562.
Tool, Fluid-operated percussive. L. C. Bayles. No. 1,343,610; June 15; v. 275; p. 508.
Tool-handle. H. S. Earle. No. 1,343,552; June 15; v. 275; p. 497.
Tool-handles, Wedge-fastener for. J. S. Johnston. No. 1,343,781; June 15; v. 275; p. 542.
Tool-holder. J. C. Fletcher. No. 1,343,257; June 15; v. 275; p. 439.
Tool, Welding-. R. E. B. Wakefield. Nos. 1,343,242; June 15; v. 275; p. 437.
Toothbrush. R. H. Lieberthel. No. 1,343,570; June 15; v. 275; p. 500.
Toothbrush and dentifrice holder, Pocket. C. E. Townsend. No. 1,343,240; June 15; v. 275; p. 436.
Topping and stripping machine. H. O. Scranton. No. 1,343,589; June 15; v. 275; p. 504.
Torch. W. F. Pagel. No. 1,343,403; June 15; v. 275; p. 467.
Torpedo, Railway signal-. E. C. Pfeil and H. O. Bemisderfer. No. 1,343,841; June 15; v. 275; p. 554.
Toy tank, Automatic self-propelled. C. A. Lewis and H. E. Smock. No. 1,343,834; June 15; v. 275; p. 553.
Traction device. W. J. Chism. No. 1,343,658; June 15; v. 275; p. 517.
Tractor. J. M. Bowen. No. 1,343,303; June 15; v. 275; p. 447.
Tractor. C. H. Kugler. No. 1,343,783; June 15; v. 275; p. 543.
Tractor, Farm-. J. E. Meyer. No. 1,343,464; June 15; v. 275; p. 479.
Train-stop, Automatic. R. Waller. No. 1,343,857; June 15; v. 275; p. 558.
Trap. J. H. Greer. No. 1,343,502; June 15; v. 275; p. 486.
Tray, Bed-. W. B. Mason and L. S. Ryan. No. 1,343,636; June 15; v. 275; p. 513.
Trichlorethylene from tetrachlorethane, Preparation of. A. Guyot. No. 1,343,716; June 15; v. 275; p. 529.
Trolley. W. A. Louden. No. 1,343,631; June 15; v. 275; p. 512.
Trolley. H. J. Snoden and J. B. Welsh. No. 1,343,592; June 15; v. 275; p. 504.
Truck, Vehicle-wheel. W. W. Snyder. No. 1,343,650; June 15; v. 275; p. 516.
Truck, Vertically-adjustable hand-. H. R. Clark. No. 1,343,864; June 15; v. 275; p. 559.
Tube-scraping apparatus. L. F. Lechtenberg. No. 1,343,215; June 15; v. 275; p. 432.
Tubes, Armor for inner. H. M. Stevens. No. 1,343,418; June 15; v. 275; p. 470.
Tubes, Means for supporting electrodes in ionic. O. Durdle. No. 1,343,551; June 15; v. 275; p. 496.
Tubing. L. C. Stukenborg. No. 1,343,236; June 15; v. 275; p. 436.
Tumbler, Sand-blast. So Coburn. No. 1,343,350; June 15; v. 275; p. 457.
Turbine installation, Marine. R. N. Ehrhart. No. 1,343,665; June 15; v. 275; p. 519.
Turpentine and making same, Substitute for. R. C. Bone. No. 1,343,387; June 15; v. 275; p. 464.
Typewriting-machine. N. Horn. No. 1,343,509; June 15; v. 275; p. 488.
Universal joint. J. C. Kopf. No. 1,343,728; June 15; v. 275; p. 531.
Vacuum-tank. W. Sparks. No. 1,343,591; June 15; v. 275; p. 504.
Vacuum-tube circuits, Control means for. R. A. Helsing. No. 1,343,562; June 15; v. 275; p. 499.
Valve. L. Albertson. No. 1,343,490; June 15; v. 275; p. 484.
Valve-adjuster. F. H. Sharar. No. 1,343,525; June 15; v. 275; p. 491.
Valve and deflector of ventilating apparatus. T. Neilson. No. 1,343,576; June 15; v. 275; p. 501.

Valve, Automatic drain-. T. W. Demarest. No. 1,343,550; June 15; v. 275; p. 496.
Valve, Automatic drain and pressure-relief. J. E. Armstrong. No. 1,343,382; June 15; v. 275; p. 463.
Valve, Automatic ring-plate. J. H. H. Voss. No. 1,343,534; June 15; v. 275; p. 493.
Valve for percussive tools. W. A. Smith. No. 1,343,649; June 15; v. 275; p. 516.
Valve, Relief-. L. E. MacBryde. No. 1,343,735; June 15; v. 275; p. 533.
Valves, Bulb for tank-. A. T. Hopkins. No. 1,343,890; June 15; v. 275; p. 564.
Valves, Safety device for operating flush-tank. W. O. Griffiths. No. 1,343,261; June 15; v. 275; p. 440.
Vehicle, Child's. E. Ischinger. No. 1,343,566; June 15; v. 275; p. 499.
Vehicle construction, Motor-driven-. G. R. Fairchilds. No. 1,343,358; June 15; v. 275; p. 458.
Vehicle-frame. W. U. Richmond. No. 1,343,682; June 15; v. 275; p. 522.
Vehicle loading-indicator. R. S. Gans. No. 1,343,556; June 15; v. 275; p. 497.
Vehicle-shackle. E. E. Chapman. No. 1,343,709; June 15; v. 275; p. 528.
Vehicle-spring, Self-oiling. E. J. Jackson. No. 1,343,453; June 15; v. 275; p. 476.
Vehicle steering device. C. W. Mott. No. 1,343,225; June 15; v. 275; p. 433.
Vehicle-wheel. A. Jakovleff. No. 1,343,567; June 15; v. 275; p. 500.
Vehicles, Combined bonnet and car-body for automobile. C. M. Motte. No. 1,343,519; June 15; v. 275; p. 490.
Vehicles, Grease-retainer for axles of motor-. J. H. Williams. No. 1,343,603; June 15; v. 275; p. 506.
Vehicles, Hoisting apparatus for. W. Sanderson. No. 1,343,283; June 15; v. 275; p. 444.
Vehicles, Locking device for motor-. M. E. Bassett. No. 1,343,609; June 15; v. 275; p. 508.
Vehicles, Means for steering motor-. F. L. Rapson. No. 1,343,846; June 15; v. 275; p. 555.
Vehicles, Trailer for motor-driven. T. Sandstrom. No. 1,343,790; June 15; v. 275; p. 544.
Vending-booth, Revolving. G. Sevczov. No. 1,343,794; June 15; v. 275; p. 545.
Vessels, Hydroplane or horizontal rudder of submarine. W. Reavell. No. 1,343,643; June 15; v. 275; p. 514.
Wall construction. G. W. Denison. No. 1,343,312; June 15; v. 275; p. 449.
Warped panel and forming same. J. Herzog. No. 1,343,320; June 15; v. 275; p. 451.
Water-closet tanks, Ball-cock for. E. J. Terry. No. 1,343,421; June 15; v. 275; p. 470.
Water-tube boiler. H. Horiuchi. No. 1,343,824; June 15; v. 275; p. 551.
Weather-strip. O. S. Branham. No. 1,343,304; June 15; v. 275; p. 447.
Weather-strip. O. Kubatzky. No. 1,343,324; June 15; v. 275; p. 451.
Web stretching and guiding device. J. T. Bolton. No. 1,343,385; June 15; v. 275; p. 464.
Weeding device. W. Zetzman. No. 1,343,805; June 15; v. 275; p. 547.
Weighing-machine. J. H. Reinhardt. No. 1,343,476; June 15; v. 275; p. 481.
Welding apparatus. W. A. Pratt. No. 1,343,277; June 15; v. 275; p. 443.
Welding machine, Electric-arc-. J. L. Adams, Jr., and H. H. Welch. No. 1,343,607; June 15; v. 275; p. 507.
Welding machine, Magnetic flame-. W. J. Buckley. No. 1,343,346; June 15; v. 275; p. 456.
Welding system, Alternating-current. O. H. Eschholz and H. Tahoe. No. 1,343,205; June 15; v. 275; p. 430.
Welding system, Arc-. O. H. Eschholz. No. 1,343,199; June 15; v. 275; p. 429.
Welding system, Arc-. O. H. Eschholz. No. 1,343,200; June 15; v. 275; p. 429.
Welding system, Arc-. O. H. Eschholz. No. 1,343,201; June 15; v. 275; p. 429.
Welding system, Electric-arc-. A. M. Candy. No. 1,343,194; June 15; v. 275; p. 428.
Welding system, Electric-arc-. O. H. Eschholz and H. Fahnoe. No. 1,343,202; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,203; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,204; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,206; June 15; v. 275; p. 430.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,207; June 15; v. 275; p. 430.
Welding system, Electric-arc-. H. Fahnoe. No. 1,343,208; June 15; v. 275; p. 430.
Wheel: *See*—
Shock-absorbing wheel. Vehicle-wheel.
Wheel-caster. H. Austin. No. 1,343,758; June 15; v. 275; p. 538.
Wheel-cushion and means for mounting same. A. L. Runyan. No. 1,343,684; June 15; v. 275; p. 523.
Wheels and means of fixing same, Detachable tread for. E. J. Leeding and A. A. Remington. No. 1,343,784; June 15; v. 275; p. 543.
Winding machine, Bobbin-. J. Dalby. No. 1,343,768; June 15; v. 275; p. 539.
Winding machine, Circular weft-. A. Schaufelberger. No. 1,343,481; June 15; v. 275; p. 483.
Winding machine, Yarn-. W. Parker. No. 1,343,333; June 15; v. 275; p. 453.
Window. A. Motteau. No. 1,343,520; June 15; v. 275; p. 490.
Window-lifting apparatus. E. G. Simpson, C. J. Schmidt, and E. P. Carstens. No. 1,343,410; June 15; v. 275; p. 468.
Window-shade. J. Schenk. No. 1,343,284; June 15; v. 275; p. 444.
Windows, Safety device for use in cleaning. F. W. Bielitz. No. 1,343,546; June 15; v. 275; p. 495.
Windshield, Auxiliary. G. Glaudel. No. 1,343,318; June 15; v. 275; p. 450.
Windshield-wiper. V. H. Christen. No. 1,343,310; June 15; v. 275; p. 449.
Wire-puller, Pneumatic-core. R. S. Aikman. No. 1,343,701; June 15; v. 275; p. 526.
Wire-rope carriage. D. Cook. No. 1,343,434; June 15; v. 275; p. 473.
Wood-handling device. H. M. Strawn. No. 1,343,288; June 15; v. 275; p. 445.
Wood-turning machine. J. Herzog. No. 1,343,319; June 15; v. 275; p. 450.
Work-supporting table. G. H. Faichney. No. 1,343,553; June 15; v. 275; p. 497.
Wrench: *See*—
Screw-wrench. Socket-wrench.
X-ray system. H. F. Waite. No. 1,343,599; June 15; v. 275; p. 506.
Yarn device and making same, Unitary. R. E. Taylor. No. 1,343,238; June 15; v. 275; p. 436.
Yarn tension. J. H. Boyd. No. 1,343,388; June 15; v. 275; p. 464.
Zinc, copper, and cadmium, Treating residues containing. J. O. Elton and R. B. Caples. No. 1,343,619; June 15; v. 275; p. 510.

ALPHABETICAL LIST OF DESIGNS.

Automobile-body. R. J. Gruenberg. No. 55,461; June 15; v. 275; p. 568.
Automobile-bumper. W. G. Pancoast and W. J. Grotenhuis. No. 55,484; June 15; v. 275; p. 572.
Automobile-footboard. J. M. White. No. 55,494; June 15; v. 275; p. 574.
Automobile-frame. H. E. Cross. No. 55,454; June 15; v. 275; p. 567.
Bait, Artificial. H. G. Hamilton. No. 55,462; June 15; v. 275; p. 568.
Cabinet, Talking-machine. J. Belpedio. No. 55,448; June 15; v. 275; p. 566.
Can, Oil-. J. D. Karle. No. 55,472; June 15; v. 275; p. 570.
Can-opener. G. A. Carlson. No. 55,450; June 15; v. 275; p. 566.
Candelabrum for devotional purposes. W. J. Lorenz. Nos. 55,476–8; June 15; v. 275; pp. 570–1.
Carburetor body or casing. C. E. Johnson. No. 55,469; June 15; v. 275; p. 569.
Card, Playing-. M. E. Harris. No. 55,466; June 15; v. 275; p. 569.
Caster, Cruet-. W. L. White. Nos. 55,495–6; June 15; v. 275; p. 574.
Checker-board. A. Day. No. 55,455; June 15; v. 275; p. 567.
Collar-holder. S. Sampson. No. 55,488; June 15; v. 275; p. 572.
Collar-stud. H. C. Freed. No. 55,458; June 15; v. 275; p. 565.
Desk. G. P. Wigginton. No. 55,497; June 15; v. 275; p. 574.
Display-counter. W. T. Sherer. No. 55,490; June 15; v. 275; p. 573.
Eyeglasses, Pair of. L. A. Heilig. No. 55,468; June 15; v. 275; p. 569.
Game-board. H. McIntyre and W. J. Wakefield. No. 55,482; June 15; v. 275; p. 571.
Gear base, Reduction-. M. A. Harris. No. 55,467; June 15; v. 275; p. 569.
Handbag. E. Carraine. No. 55,451; June 15; v. 275; p. 566.
Headlight-lens. G. Johnson. No. 55,470; June 15; v. 275; p. 569.
Hook. K. Okamuro. No. 55,483; June 15; v. 275; p. 572.
Kettle, Berlin. W. Luttringhaus. No. 55,480; June 15; v. 275; p. 571.
Kettle, Preserving-. W. Luttringhaus. No. 55,479; June 15; v. 275; p. 571.
Lighting-fixtures shade. W. F. Handel. No. 55,464; June 15; v. 275; p. 568.

Lighting-fixture wall-plate. G. Westphal. No. 55,493; June 15; v. 275; p. 573.
Meat-tendering implement. W. Maechler. No. 55,481; June 15; v. 275; p. 571.
Nutcracker. A. W. and J. J. Geigand. No. 55,460; June 15; v. 275; p. 568.
Pincer. H. Rozenske. No. 55,487; June 15; v. 275; p. 572.
Powder-puff. W. H. Koon. No. 55,474; June 15; v. 275; p. 570.
Radiator, Automobile-. W. A. King. No. 55,473; June 15; v. 275; p. 570.
Radiator core, Automobile-. L. G. Hanmer. No. 55,465; June 15; v. 275; p. 569.
Radiator for automobile-vehicles. M. H. L. Sizaire. No. 55,491; June 15; v. 275; p. 573.
Reflector. H. G. Fitz Gerald. No. 55,457; June 15; v. 275; p. 565.
Rocker, Child's. A. B. Christopher. No. 55,453; June 15; v. 275; p. 566.
Scoreboard. J. Zipp and J. P. Morbach. No. 55,499; June 15; v. 275; p. 574.
Sign, Advertising-. R. R. Johnstone. No. 55,471; June 15; v. 275; p. 570.
Spray device. G. B. Pickop. No. 55,486; June 15; v. 275; p. 572.
Sprinkler-heads or similar articles, Frame member for automatic. J. R. Hamilton. No. 55,463; June 15; v. 275; p. 568.
Sword hilt and scabbard. C. P. Woodbury. No. 55,498; June 15; v. 275; p. 574.
Tire, Automobile-. J. B. Gabeline. No. 55,459; June 15; v. 275; p. 565.
Tire-cover. P. M. Lockwood. No. 55,475; June 15; v. 275; p. 570.
Token, Friendship-. M. V. Bauer. No. 55,447; June 15; v. 275; p. 565.
Tone-arm. M. Borris. No. 55,449; June 15; v. 275; p. 566.
Toy garage. O. R. Payne. No. 55,485; June 15; v. 275; p. 572.
Tray, Tool-. G. M. Taylor. No. 55,492; June 15; v. 275; p. 573.
Vacuum apparatus, Therapeutic. W. W. Chase. No. 55,452; June 15; v. 275; p. 566.
Vehicles, Steering-wheel for. C. H. Eldon. No. 55,456; June 15; v. 275; p. 567.
Wind-deflector. R. C. Shaw. No. 55,489; June 15; v. 275; p. 573.

ALPHABETICAL LIST OF TRADE-MARKS.

Aprons, house-dresses, petticoats, &c. The Iowa Skirt Manufacturing Company. No. 132,180; June 15; v. 275; p. 618.
Baby-pants, Sanitary. M. S. George. No. 132,147; June 15; v. 275; p. 617.
Bathtubs, lavatories, water-closets, &c. Delaware Electric & Supply Co. No. 132,124; June 15; v. 275; p. 616.
Bedspreads. B. F. Bailey & Co. No. 132,088; June 15; v. 275; p. 615.
Belt-dressing. Joseph Dixon Crucible Company. No. 132,130; June 15; v. 275; p. 616.
Beverage, Cereal malt. J. Barbey. No. 132,089; June 15; v. 275; p. 615.
Beverages, Fruitless anise-flavored carbonated. S. Batuglos. No. 132,090; June 15; v. 275; p. 615.
Beverage, Malt. F. A. Maddas. No. 132,196; June 15; v. 275; p. 618.
Beverage, Non-alcoholic, &c. The American Brewing Co. No. 132,079; June 15; v. 275; p. 615.
Beverage, Non-alcoholic. Cincinnati Beverage and Products Co. No. 132,115; June 15; v. 275; p. 616.
Beverage and a syrup for flavoring said beverage, Non-alcoholic. Bethania Mineral Spring Company. No. 132,097; June 15; v. 275; p. 615.
Beverage, Non-alcoholic fruit. Miracle Company. No. 132,208; June 15; v. 275; p. 619.
Beverage, Non-intoxicating non-cereal. H. T. Dewey & Sons Co. No. 132,127; June 15; v. 275; p. 616.
Beverages and syrups for making same, Non-alcoholic. Standard Bottling and Extract Co. No. 132,250; June 15; v. 275; p. 620.
Beverages, Non-alcoholic maltless. E. D. Fave. No. 132,140; June 15; v. 275; p. 617.
Beverages, Non-alcoholic non-cereal maltless. Hygeia Beverage Co. No. 132,174; June 15; v. 275; p. 618.
Blouses and suits, Women's, misses', and children's. Nickels Manufacturing Company. No. 132,217; June 15; v. 275; p. 619.
Boots and shoes. Thompson Shoe Company. No. 132,261; June 15; v. 275; p. 620.
Boots and shoes of leather, leather and fabric, &c. J. & T. Cousins Co. No. 132,121; June 15; v. 275; p. 616.
Butter-serving machines. Food Appliances Manufacturing Corporation. No. 132,144; June 15; v. 275; p. 617.
Butter, Tub-. S. Saler. No. 132,238; June 15; v. 275; p. 620.
Buttons, Pearl. Penn Rivet Corporation. No. 132,222; June 15; v. 275; p. 619.
Cakes, crackers, and biscuits. Loose-Wiles Biscuit Company. No. 132,192; June 15; v. 275; p. 618.
Cakes, wafers, crackers, or biscuits. Loose-Wiles Biscuit Company. No. 132,193; June 15; v. 275; p. 618.
Candy. J. S. Bell Confectionery Company. No. 132,094; June 15; v. 275; p. 615.
Canned fruits. Calima Canning Co. No. 132,102; June 15; v. 275; p. 615.
Canned fruits and tomatoes. O. A. Nelson. No. 132,215; June 15; v. 275; p. 619.
Canned tuna fish. White Star Canning Co. No. 132,275; June 15; v. 275; p. 621.
Caps, Women's. M. D. Cannon. No. 132,104; June 15; v. 275; p. 616.
Carpets. Roxbury Carpet Company. No. 132,236; June 15; v. 275; p. 620.
Castings and forgings, Iron and steel. Chain Belt Company. No. 132,109; June 15; v. 275; p. 616.
Casting metals, Metallic deoxidizers and scavengers for use in. Fansteel Products Company. No. 132,139; June 15; v. 275; p. 617.
Cement, Portland. Indiana Portland Cement Company. No. 132,177; June 15; v. 275; p. 618.
Certain named blankets and bed-comforts. Burnham-Munger-Root Dry Goods Co. No. 132,101; June 15; v. 275; p. 615.
Chains, bracelets, and crosses, Bead neck-. Stern Brothers & Company. No. 132,256; June 15; v. 275; p. 620.
Cleaner for clothes, Dry. A. G. Gorden. No. 132,156; June 15; v. 275; p. 617.
Cleaning and finishing compound or powders for painted, polished, and stone surfaces. R. T. Conlon. No. 132,119; June 15; v. 275; p. 616.
Cleaning compounds. Utilities Chemical Company. No. 132,268; June 15; v. 275; p. 621.
Cleaning preparation. John Bell, Hills & Lucas. No. 132,093; June 15; v. 275; p. 615.
Cloth-cutters and cloth-cutting machines, Electrically-operated. F. M. Laserson. No. 132,188; June 15; v. 275; p. 618.
Clothing, Michigan Motor Garment Co. No. 132,262; June 15; v. 275; p. 619.
Coffee, J. Aron & Company. Nos. 132,083–4; June 15; v. 275; p. 615.
Compound for use in removing paint, varnish, &c. Universal Paint Remover and Motor Cleaning Company. No. 132,267; June 15; v. 275; p. 621.
Cooking and kitchen utensils, Aluminum. Landers, Frary & Clark. No. 132,186; June 15; v. 275; p. 618.
Corset-covers envelop-chemises, &c. Elm Undergarment Co. No. 132,266; June 15; v. 275; p. 621.
Cotton and silk piece goods. Commercial Shirt Company. No. 132,118; June 15; v. 275; p. 616.
Cotton piece goods. F. C. Harder. No. 132,163; June 15; v. 275; p. 617.
Cotton piece goods. O. H. Hinck. Nos. 132,166–9; June 15; v. 275; pp. 617–18.
Cotton piece goods. Daniel Miller Company. No. 132,205; June 15; v. 275; p. 619.
Cotton piece goods. Pepperell Manufacturing Company. No. 132,225; June 15; v. 275; p. 619.
Cotton piece goods. Warner-Godfrey Co. No. 132,270; June 15; v. 275; p. 621.
Cotton piece goods, cotton, cotton and silk, and cotton, silk and worsted piece goods. Wm. Simpson Sons & Co. No. 132,247; June 15; v. 275; p. 620.
Cutlery and machinery. Simmons Hardware Company. No. 132,246; June 15; v. 275; p. 620.
Drying liquid composition in the nature of lacquer or paint. Rust-Knot Mfg. Co. No. 132,237; June 15; v. 275; p. 620.
Electric lighting and wiring fixtures. Seidler-Miner Company. No. 132,241; June 15; v. 275; p. 620.
Electric motors, motor-frames and parts. Domestic Electric Company. No. 132,131; June 15; v. 275; p. 616.
Electrical apparatus, machines, and supplies. Sunnyhome Electric Company. No. 132,259; June 15; v. 275; p. 620.
Electrical apparatus, machines, and supplies. Scintilla. No. 132,240; June 15; v. 275; p. 620.
Envelops, Mailing-. Central Ohio Paper Co. No. 132,106; June 15; v. 275; p. 616.
Fabrics and cotton and silk piece goods, linens, Pile. Saltzman & Berman. No. 132,239; June 15; v. 275; p. 620.
Fabrics, Pile. Bennett and Aspden. No. 132,095; June 15; v. 275; p. 615.
Fabrics, Pile. Sidney Blumenthal & Co. No. 132,244; June 15; v. 275; p. 620.
Flash-lights and flash-light cases, Portable. Henry Hyman & Co. No. 132,175; June 15; v. 275; p. 618.
Flour, Self-rising wheat-. Mennel Milling Company. No. 132,198; June 15; v. 275; p. 618.

Flour, Wheat-. International Milling Company. No. 132,179; June 15; v. 275; p. 618.
Fruit preserves, table-syrup, orange-peel. Eatsum Products Corporation. No. 132,133; June 15; v. 275; p. 616.
Garments for young men and boys, Outer. J. J. Preis & Company. No. 132,227; June 15; v. 275; p. 619.
Garters. Penn Rivet Corporation. No. 132,224; June 15; v. 275; p. 619.
Gasolene. J. W. Trotter. No. 132,265; June 15; v. 275; p. 621.
Gates. Rowe Manufacturing Co. No. 132,235; June 15; v. 275; p. 620.
Ginger-ale. Purity Cross, Inc. No. 132,232; June 15; v. 275; p. 619.
Gloves, Fabric and leather. Wells-Lamont Manufacturing Company. No. 132,273; June 15; v. 275; p. 621.
Glue or lute, Marine. Bitu-Mo-Lin Products Co. No. 132,098; June 15; v. 275; p. 615.
Gowns, Children's muslin. J. K. Hammerman. No. 132,161; June 15; v. 275; p. 617.
Grease for stopcocks and the like. W. H. Hart. No. 132,165; June 15; v. 275; p. 617.
Gum, Chewing-. O-Pee-Chee Gum Co. No. 132,221; June 15; v. 275; p. 619.
Hatpins, scarf and baby pins. Stern Brothers & Company. No. 132,257; June 15; v. 275; p. 620.
Hats, Ladies'. Kurz Bros. No. 132,184; June 15; v. 275; p. 618.
Headwear for men and boys. City Cap Co. No. 132,116; June 15; v. 275; p. 616.
Hosiery. Chipman Knitting Mills. No. 132,114; June 15; v. 275; p. 616.
Hosiery. Finery Hosiery Corporation. No. 132,143; June 15; v. 275; p. 617.
Hosiery. Nomend Hosiery Mills. M. B. Laubach Co. No. 132,218; June 15; v. 275; p. 619.
Hosiery. Walker Hosiery Mills Co. No. 132,269; June 15; v. 275; p. 621.
Hosiery, Men's. Kennesaw Hosiery Company. No. 132,183; June 15; v. 275; p. 618.
Hosiery, sweaters, bathing-suits, &c. A. J. Armstrong Co. No. 132,086; June 15; v. 275; p. 615.
Hosiery, Women's and children's. L. Propper. No. 132,230; June 15; v. 275; p. 619.
Ink, Concentrated writing-. La Pierre Manufacturing Co. No. 132,185; June 15; v. 275; p. 618.
Inkstands and inkwells. Sengbusch Self-Closing Inkstand Company. No. 132,242; June 15; v. 275; p. 620.
Jams, marmalades, and jellies. M. D. Taylor. No. 132,260; June 15; v. 275; p. 620.
Kerosene, gasolene, &c. Standard Oil Company of New York. No. 132,252; June 15; v. 275; p. 620.
Laces. Garfield-Stahl Company. No. 132,146; June 15; v. 275; p. 617.
Lamp-chimneys, lantern-globes, &c. Gill Brothers Company. No. 132,149; June 15; v. 275; p. 617.
Lathes. R. K. Le Blond Machine Tool Company. No. 132,189; June 15; v. 275; p. 618.
Lead-pencils, writing-pens, and rubber erasers. N. V. Handelsvereeniging Gebrs. Rikkers. No. 132,162; June 15; v. 275; p. 617.
Lead, zinc, and colors in oil, and dry red lead. White, L. H. C. Hart. No. 132,164; June 15; v. 275; p. 617.
Leather-dressing. Whittemore Brothers Corporation. No. 132,277; June 15; v. 275; p. 621.
Lockets, fobs, pendants, and ear-rings. Stern Brothers & Company. No. 132,258; June 15; v. 275; p. 620.
Lubricating-paste. Merrill-Hamilton Company. No. 132,199; June 15; v. 275; p. 618.
Machinery and parts thereof. Amplex Incorporated. No. 132,082; June 15; v. 275; p. 615.
Malt and hop extract sold for the preparation of a cereal beverage. T. J. Wild. No. 132,278; June 15; v. 275; p. 621.
Metal hand-buckets. Allied Machinery Company of America. No. 132,078; June 15; v. 275; p. 615.
Milk, buttermilk, and cream. Daltex Milk Products Company. No. 132,123; June 15; v. 275; p. 616.
Nuts and dried fruits, Shelled, &c. Habicht and Company. Nos. 132,159–60; June 15; v. 275; p. 617.
Oil for sanctuary lamps and candles. B. Muller-Thym. No. 132,263; June 15; v. 275; p. 621.
Oil Machine-. Globe Grocery Stores, Inc. No. 132,154; June 15; v. 275; p. 617.
Oils, Core-. Loos & Dilworth. No. 132,191; June 15; v. 275; p. 618.
Oils, gasolene, naphtha, &c. Clarendon Refining Company. No. 132,117; June 15; v. 275; p. 616.
Oils, Fuel-. J. J. Cowley. No. 132,120; June 15; v. 275; p. 616.
Oils, Fuel-. Toledo Fuel Company. No. 132,264; June 15; v. 275; p. 621.
Oils made from petroleum. Sinclair Refining Company. No. 132,248; June 15; v. 275; p. 620.
Overalls and pants. Large & Roomy Overall Mfg. Co. No. 132,187; June 15; v. 275; p. 618.
Overalls, jackets, jumpers, &c. E. D. Roemer. No. 132,233; June 15; v. 275; p. 619.
Paints and painters' materials. Standard Varnish Works. No. 132,253; June 15; v. 275; p. 620.
Paints and varnishes. Buffalo House Wrecking & Salvage Co. No. 132,100; June 15; v. 275; p. 615.
Paper and mailing-envelops, Writing-. Skillkrafters, Incorporated. No. 132,249; June 15; v. 275; p. 620.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 132,276; June 15; v. 275; p. 621.
Paper and stationery. Central Ohio Paper Company. No. 132,107; June 15; v. 275; p. 616.
Paper for writing, printing, and ledger purposes, Bond-. Neenah Paper Co. No. 132,214; June 15; v. 275; p. 619.
Paper, Ledger-. Empire Paper Company. No. 132,137; June 15; v. 275; p. 617.
Paper, paper towels and napkins, &c., Printing, &c. The Central Ohio Paper Company. No. 132,108; June 15; v. 275; p. 616.
Paper, Toilet-. George T. Johnson Co. No. 132,182; June 15; v. 275; p. 618.
Paper, Writing-. Gilbert Paper Company. No. 132,148; June 15; v. 275; p. 617.
Paper, Writing and printing. American Writing Paper Co. No. 132,081; June 15; v. 275; p. 615.
Parasols and umbrellas. J. A. Migel, Inc. No. 132,204; June 15; v. 275; p. 619.
Pearls, Synthetic. Lord & Taylor. No. 132,194; June 15; v. 275; p. 618.
Phonographs, phonograph-records, sound-boxes, and needles. The Belcanto Co. Nos. 132,091–2; June 15; v. 275; p. 615.
Phonographs, phonograph-records, sound-boxes, and needles. L. Rommel. No. 132,234; June 15; v. 275; p. 703.
Pitch for use in breweries. Deutsche Conservierungsgesellschaft mit beschrankter Haftung. No. 132,126; June 15; v. 275; p. 616.
Plush piece goods. Philadelphia Pile Fabric Mills. No. 132,226; June 15; v. 275; p. 619.
Preparation used as a sweetening-syrup for beverages. The Nulomoline Company. No. 132,219; June 15; v. 275; p. 619.
Razors. L. Baer. No. 132,087; June 15; v. 275; p. 615.
Razors, Safety-. Gillette Safety Razor Company. Nos. 132,150–2; June 15; v. 275; p. 617.
Ribbon in the piece, Floral. J. E. Cannaday. No. 132,103; June 15; v. 275; p. 615.
Ribbons in the piece. Johnson, Cowdin and Co. No. 132,181; June 15; v. 275; p. 618.
Ring and ring mountings. Stern Brothers & Company. No. 132,255; June 15; v. 275; p. 620.
Root-beer extract, orange, wild-cherry, and grape phosphates. Globe Grocery Stores. No. 132,153; June 15; v. 275; p. 617.
Rubber heels. T. M. Evans. No. 132,138; June 15; v. 275; p. 617.
Rubber or composition soles, heels, and taps. Fiber Products Co. No. 132,142; June 15; v. 275; p. 617.
Rubber sponges. The Miller Rubber Co. No. 132,206; June 15; v. 275; p. 619.
Rust-preventive, Oil. E. F. Houghton & Co. No. 132,171; June 15; v. 275; p. 618.
Salad-dressing. M. Steinberg. No. 132,254; June 15; v. 275; p. 260.
Saws. Simonds Manufacturing Company. No. 132,245; June 15; v. 275; p. 620.
Saws, saw-frames, metal-cutting band-saw machines. Napier Saw Works. No. 132,211; June 15; v. 275; p. 619.
Seed, Garden-. Crabbs Reynolds Taylor Co. No. 132,122; June 15; v. 275; p. 616.
Seeds, cut flowers, plants, &c. Duluth Floral Company. No. 132,132; June 15; v. 275; p. 616.
Shirts and underwear for men, Dress, negligée, and work. Weinberg & Weinberg. No. 132,272; June 15; v. 275; p. 621.
Shirts, Men's dress and negligée. Emerson Shirt Co. Inc. No. 132,136; June 15; v. 275; p. 617.
Shoe-laces. Penn Rivet Corporation. No. 132,223; June 15; v. 275; p. 619.
Shoes, Babies' kid-leather washable. Gloversville Welt Co. No. 132,155; June 15; v. 275; p. 617.
Silk and silk-mixture fabrics in the piece. Cheney Brothers. Nos. 132,111–12; June 15; v. 275; p. 616.
Silk fabrics in the piece. Cheney Brothers. No. 132,113; June 15; v. 275; p. 616.
Silks in the piece. Lindeke, Warner & Sons. No. 132,190; June 15; v. 275; p. 618.
Silk piece goods. W. T. Dickson. No. 132,128; June 15; v. 275; p. 616.
Silk piece goods. Haas Brothers Fabrics' Corporation. No. 132,158; June 15; v. 275; p. 617.
Silk piece goods. John H. Meyer Silk Mills Co. Nos. 132,260–1; June 15; v. 275; pp. 618–19.
Silk piece goods. Puritan Silks Corporation. No. 132,231; June 15; v. 275; p. 619.
Skins, Finished. Standard Kid Mfg. Co. No. 132,251; June 15; v. 275; p. 620.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 132,141; June 15; v. 275; p. 617.
Soap. Howard Bros. Chemical Co. No. 132,172; June 15; v. 275; p. 618.
Soap. Alex. D. Shaw & Co. No. 132,243; June 15; v. 275; p. 620.
Soap. The Procter & Gamble Company. Nos. 132,228–9; June 15; v. 275; p. 619.
Soap, Powdered. Elgin National Soap Company. No. 132,135; June 15; v. 275; p. 617.
Soaps, Toilet. The Armand Company. No. 132,085; June 15; v. 275; p. 615.

Soda-water and non-alcoholic syrups used in the making of soft drinks. E. H. Dessauer. No. 132,125; June 15; v. 275; p. 616.
Solder. E. Charland. No. 132,110; June 15; v. 275; p. 616.
Spark-plugs. Marmon Chicago Company. No. 132,197; June 15; v. 275; p. 618.
Spark-plugs. National Spark Plug Company. No. 132,212; June 15; v. 275; p. 619.
Starters, Impulse-. Eisemann Magneto Corporation. No. 132,134; June 15; v. 275; p. 616.
Stationery articles, eyelets for fastening purposes and instruments for inserting same. Machine Appliance Corporation. No. 132,195; June 15; v. 275; p. 618.
Stone for scouring kitchen utensils, Rubbing-. E. Mueller. No. 132,209; June 15; v. 275; p. 619.
Stucco, Composition for use as. American Magnesia Products Co. No. 132,080; June 15; v. 275; p. 615.
Sweepers, Electric suction-. Hoover Suction Sweeper Company. No. 132,170; June 15; v. 275; p. 618.
Syrup for making non-alcoholic beverages. C. A. Fowler. No. 132,145; June 15; v. 275; p. 617.
Syrup, Non-intoxicating fruit-. Celro-Kola Co. No. 132,105; June 15; v. 275; p. 616.
Tea syrup for making tea, Concentrated. I. C. T. Products Company. No. 132,176; June 15; v. 275; p. 618.
Textile goods in the piece. James F. White & Co. No. 132,274; June 15; v. 275; p. 621.
Tiles, &c., Composition floor-. International Cork Company. No. 132,178; June 15; v. 275; p. 618.
Tire-filling compound. Middletown Accessory Laboratories Company. No. 132,203; June 15; v. 275; p. 619.
Toilet extracts. E. Gal, Sociedad en Comandita. No. 132,077; June 15; v. 275; p. 615.
Toilet lotions. E. Gal, Sociedad en Comandita. No. 132,076; June 15; v. 275; p. 615.
Umbrellas. Weinberg & Bisbing. No. 132,271; June 15; v. 275; p. 621.
Underwear, Ladies' flat. F. Newmark. No. 132,216; June 15; v. 275; p. 619.
Varnish composition. Minwax Company. No. 132,207; June 15; v. 275; p. 619.
Watches. The D. Gruen Sons and Company. No. 132,157; June 15; v. 275; p. 617.
Watches and clocks. Tiffany & Company. No. 132,262; June 15; v. 275; p. 620.
Watch-movements. National Watch Company. No. 132,213; June 15; v. 275; p. 619.
Watches, watch-movements and dials, watchcases. I. Ollendorff Company. No. 132,220; June 15; v. 275; p. 619.
Water, Concentrated natural mineral-well. E. E. Dismuke. No. 132,129; June 15; v. 275; p. [illegible]
Window-cleaning composition. E. W. Bond. No. 132,099; June 15; v. 275; p. 615.
Woolen dress and fancy cotton piece goods. Nacoma Textile Co. No. 132,210; June 15; v. 275; p. 619.
Worsted cloth in the piece. Benson Brothers. No. 132,096; June 15; v. 275; p. 615.
Writing-paper and envelops. George B. Hurd & Co. No. 132,173; June 15; v. 275; p. 618.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Amusement devices. Oriole Toy Company. No. 125,907; June 15; v. 275; p. 585.
Aprons and wash-dresses. Major Apron Company. No. 130,483; June 15; v. 275; p. 603.
Automobile steering-post locks. The Hershey Manufacturing Company. No. 127,370; June 15; v. 275; p. 588.
Automobiles. Cleveland Automobile Company. No. 129,698; June 15; v. 275; p. 598.
Awning, Vehicle-. P. Gervig. No. 124,209; June 15; v. 275; p. 583.
Barrels, kegs, hogsheads, &c. Chess & Wymond Company. No. 126,716; June 15; v. 275; p. 587.
Bath-room fittings. Autoyre Company. No. 129,582; June 15; v. 275; p. 597.
Bathtubs, lavatories, sanitary drinking-fountains, &c. Pacific Sanitary Manufacturing Company. No. 125,127; June 15; v. 275; p. 584.
Bathtubs, set-bowls, kitchen-sinks, hinges, &c. Aktiebolaget Ingenlörsfirman G. A. Lindstedt & Co. No. 129,552; June 15; v. 275; p. 597.
Batteries and connectors, terminals, &c., Electric storage. MacLar Battery Company, Inc. No. 131,712; June 15; v. 275; p. 610.
Batteries, Electrical storage. Hobbs Storage Battery Company. No. 132,048; June 15; v. 275; p. 612.
Bean and pea harvesters. Gordon Bean and Pea Harvester Co. No. 130,217; June 15; v. 275; p. 602.
Bearings, belt-pulleys, &c., Ball and roller. Compagnie D'Applications Mecaniques. Nos. 116,125–6; June 15; v. 275; p. 576.
Bearings, power transmissions for machinery, &c., Ball and roller. Nordiska Kullager Aktiebolaget. No. 126,651; June 15; v. 275; p. 587.
Beer and malt extracts. Pabst Brewing Company. No. 119,368; June 15; v. 275; p. 579.
Belting, Leather. Jewell Belting Company. No. 121,044; June 15; v. 275; p. 580.
Belts and suspenders, Men's leather apparel-. The Yale Suspender Co. No. 117,264; June 15; v. 275; p. 578.
Beverage, Non-alcoholic. Muskato Beverage Company. No. 131,029; June 15; v. 275; p. 607.
Beverage, Non-alcoholic. T. B. Paulos. No. 131,186; June 15; v. 275; p. 608.
Beverages, Non-alcoholic apple. Cascade Cider Co. No. 128,918; June 15; v. 275; p. 593.
Beverages, Non-alcoholic mixtures used in making malt. Baltimore Process Co. No. 121,105; June 15; v. 275; p. 580.
Beverages, Non-alcoholic non-cereal maltless. C. L. Grigg. No. 130,138; June 15; v. 275; p. 601.
Bicycle and motorcycle saddles. Micrometer Engineering Co. No. 128,976; June 15; v. 275; p. 594.
Bicycles and attachments therefor. Hendee Manufacturing Company. No. 83,173; June 15; v. 275; p. 575.
Blouses, play-suits or rompers, &c., Boys'. Sonny Manufacturing Co. No. 131,132; June 15; v. 275; p. 607.
Blowers and fans. The New York Blower Co. No. 130,334; June 15; v. 275; p. 602.
Bolting-machines or short-log saws. American Saw Mill Machinery Company. No. 125,525; June 15; v. 275; p. 584.
Boot, shoe, and leather, polishes, &c. Yankee Polish Co. No. 129,215; June 15; v. 275; p. 595.
Brake-lining. Vogt Manufacturing Corporation. No. 125,993; June 15; v. 275; p. 585.
Brick. Bennettsville Brick Company. No. 130,084; June 15; v. 275; p. 600.
Brushes, Hair, clothes, and hat. Paraloid Works. No. 105,864; June 15; v. 275; p. 575.
Brushes, powder-puffs, whisk-brooms, Clothes, &c. Tiffany & Company. Nos. 128,240–1; June 15; v. 275; p. 591.
Bunting. C. H. Reed. No. 127,015; June 15; v. 275; p. 587.
Cabinets, Store display-. Lyon & Healy. No. 122,307; June 15; v. 275; p. 581.
Calculating-machines. A. Wibel. No. 125,554; June 15; v. 275; p. 584.
Candies. Puritan Candy Co. No. 130,848; June 15; v. 275; p. 605.
Candy. A. G. Abraham Company. No. 131,549; June 15; v. 275; p. 610.
Candy. A. G. Morse Co. No. 130,973; June 15; v. 275; p. 606.
Candy Powell's. No 130,179; June 15; v. 275; p. 601.
Candy. Eugene O. Reed Company. No. 131,745; June 15; v. 275; p. 610.
Candy, Eugene O. Reed Company. No. 131,830; June 15; v. 275; p. 611.
Candy and fruit tablets. Charms Co. No. 130,798; June 15; v. 275; p. 605.
Candy, Chocolate. The W. D. Buchanan Company. No. 130,574; June 15; v. 275; p. 603.
Candy, Chocolate. California Chocolate Shops. No. 121,750; June 15; v. 275; p. 581.
Candy, Chocolate, cake, bread, &c. W. Lohr. No. 120,491; June 15; v. 275, p. 580.
Canned fruit and vegetables. Beterpack Canning Company. No. 131,301; June 15; v. 275; p. 608.
Canned fruits and vegetables. Bay Side Canning Co. No. 131,771–2; June 15; v. 275; p. 610.
Canned fruits and vegetables. Beterpack Canning Company. No. 131,303; June 15; v. 275; p. 608.
Canned fruits and vegetables. California Co-Operative Canneries. No. 131,777; June 15; v. 275; p. 611.
Canned fruits and vegetables. San Leandro Canning Co. No. 131,361; June 15; v. 275; p. 609.
Canned fruits and vegetables. The Springville Canning Co. No. 131,834; June 15; v. 275; p. 611.
Canned sardines. Neptune Sea Food Co. No. 122,782; June 15; v. 275; p. 582.
Canned vegetables. The Springville Canning Co. No. 131,837; June 15; v. 275; p. 611.
Carbureters. Sunderman Corporation. No. 117,128; June 15; v. 275; p. 577.
Carbureters and air-regulating devices for internal-combustion engines. Hexman Moto Company. No. 129,717; June 15; v. 275; p. 598.
Ceilings, Metal. The Berger Manufacturing Company. No. 132,501; June 15; v. 275; p. 614.
Cement or concrete floors. Material for hardening and dust-proofing. Toch Brothers. No. 130,002; June 15; v. 275; p. 600.
Cereal and sugar syrups for soda-fountain purposes. The Nulomoline Company. No. 130,844; June 15; v. 275; p. 605.
Cereal food. J. Graham. No. 132,248; June 15; v. 275; p. 614.
Chucks of all kinds. The Skinner Chuck Company. No. 128,528; June 15; v. 275; p. 592.
Chemical compounds. A. C. Smith. No. 109,110; June 15; v. 275; p. 575.
Chinaware, bric-a-brac, earthenware, porcelain. Tiffany & Company. No. 128,242; June 15; v. 275; p. 591.
Chocolates. Flirtation Candy Co. No. 131,630; June 15; v. 275; p. 610.
Cigarettes. Melikian Cigarettes, Inc. No. 127,822; June 15; v. 275; p. 589.
Cigars. J. M. Goldstein. No. 125,617; June 15; v. 275; p. 585.
Clay used as a filler in the manufacture of paper, paints, &c. R. T. Vanderbilt Company. No. 129,580; June 15; v. 275; p. 597.
Cleaner, Electric vacuum-. Air-Way Company. No. 131,201; June 15; v. 275; p. 608.
Cleaner for removing grease, oils, paints, &c. Pioneer Chemical & Mfg. Co. No. 129,802; June 15; v. 275; p. 598.
Closet and bath seats, plumbing-traps, &c., Water-. Sanitary Specialties Co. No. 101,246; June 15; v. 275; p. 575.
Clothes-pressing iron, Electric-heated. F. A. Patrick & Co. No. 130,926; June 15; v. 275; p. 606.
Clothes-washing machines. W. W. Allen. No. 127,955; June 15; v. 275; p. 589.
Coats and suits for women and children. The Goldfield-Rosenfeld Co. No. 127,910; June 15; v. 275; p. 589.
Coats, Women's. The Schwarz-Hexter Co. No. 130,698–9; June 15; v. 275; p. 604.
Codfish, Boneless salt. Shattuck & Jones. No. 129,863; June 15; v. 275; p. 599.
Coffee. The Commercial Tea & Coffee Co. No. 127,756; June 15; v. 275; p. 589.
Coffee and mixture of coffee, chicory, and cereal. A. H. Nielon & Son. No. 131,499; June 15; v. 275; p. 610.
Collars and cuffs, Reversible. W. Wisniewski. No. 129,689; June 15; v. 275; p. 597.
Collars, cuffs, and shirts made of silk, &c. Victory Shirt Co. No. 118,945; June 15; v. 275; p. 579.
Cologne. B. Altman & Co. No. 128,584; June 15; v. 275; p. 592.
Combination sets of garden tools for hand use. H. Schoerner. No. 128,373; June 15; v. 275; p. 591.
Concrete building material, Fabricated. Stock Construction Company. No. 130,700; June 15; v. 275; p. 605.
Cooking utensils. The Albert Sechrist Manufacturing Company. No. 124,496; June 15; v. 275; p. 583.
Cooling-cream, dandercide, toilet water, hair-invigorator, &c. C. E. Hoffman Company. No. 128,778; June 15; v. 275; p. 593.

(REGISTRATION APPLIED FOR.)

Copy-holders. Error-No Incorporated. No. 130,164; June 15; v. 275; p. 601.
Cords, braids, and tapes, Elastic. W. J. Adams & Co. No. 114,072; June 15; v. 275; p. 572.
Corn-starch. C. T. Whittier. No. 131,934; June 15; v. 275; p. 612.
Cornets, trumpets, trombones, &c. Lyon & Healey. No. 129,331; June 15; v. 275; p. 596.
Cornmeal. W. P. Tanner-Gross & Company. No. 127,807; June 15; v. 275; p. 589.
Cotton and silk piece goods. Noerdlinger Brothers Company. No. 128,859; June 15; v. 275; p. 593.
Cotton and silk piece goods and mixtures of same and linen and artificial silk piece goods. Krower-Tinberg Co. No. 131,707; June 15; v. 275; p. 610.
Cotton, Calking-. Massasoit Manufacturing Company. No. 129,226; June 15; v. 275; p. 595.
Cotton piece goods. Watts, Stebbins & Co. No. 125,203; June 15; v. 275; p. 584.
Crackers, zwieback, bran cookies, &c. R. Houghton. Nos. 124,754–5; June 15; v. 275; p. 583.
Cream-whip. A. W. Bull. No. 131,626; June 15; v. 275; p. 610.
Creams, Shaving-. De Luxe Brush Company. No. 129,309; June 15; v. 275; p. 595.
Cutlery, pocket-knives, scissors, &c., Table-. Tiffany & Company. No. 128,237; June 15; v. 275; p. 591.
Cutlery, Steel. S. E. Bernstein. No. 121,139; June 15; v. 275; p. 580.
Directory. M. Lazier. No. 125,781; June 15; v. 275; p. 585.
Disinfectant, deodorizer, and insecticide. Colonial Chemical Corporation. No. 127,996; June 15; v. 275; p. 589.
Disinfectants. The Sanitary Products Corporation. Nos. 129,095–6; June 15; v. 275; p. 594.
Dolls, Walking. H. H. Coleman. No. 128,044; June 15; v. 275; p. 590.
Drill-chucks. Eastern Tube & Tool Company. No. 129,706; June 15; v. 275; p. 598.
Eggs. F. W. Spellmeyer. Nos. 131,886–7; June 15; v. 275; pp. 611–2.
Electric light and power units. Plix Light Company. No. 128,319; June 15; v. 275; p. 591.
Electric motors, generators, converters, &c. Wagner Electric Manufacturing Company. No. 129,363; June 15; v. 275; p. 596.
Emulsions of almond, cinnamon, ginger, vanilla, &c., for food flavoring. The Youngstown Chemical Co. No. 130,188; June 15; v. 275; p. 601.
Engines, grease-cups, and guns, Auxiliary air-inlet devices for internal-combustion. The Automatic Manufacturing Company. No. 118,006; June 15; v. 275; p. 578.
Ensilage-cutters and silo-fillers. The Plymouth Foundry & Machine Co. No. 129,246; June 15; v. 275; p. 595.
Fabric piece-goods, Pile-. The Hind & Harrison Plush Co. No. 129,931; June 15; v. 275; p. 599.
Fabrics, Silk, &c. Cohen Brothers Manufacturing Co. No. 127,679; June 15; v. 275; p. 588.
Fabrics woven of silk in combination with cotton and wool, &c. The Brainerd & Armstrong Company. No. 129,824; June 22; v. 275; p. 598.
Faucets, manually-operated valves and cocks. The Cleveland Brass Manufacturing Company. No. 130,644; June 15; v. 275; p. 604.
Feed and bominy meal, Wheat. St. Albans Grain Company. No. 130,693; June 15; v. 275; p. 604.
Feed for live stock and poultry. Burley Feed Manufacturing Company. No. 131,203; June 15; v. 275; p. 608.
Feed, Stock. Alfocorn Milling Company. Nos. 132,221–2; June 15; v. 275; p. 613.
Feed, Stock. Alfocorn Milling Company. Nos. 132,221–2; June 15; v. 275; p. 613.
Feed, Stock. Northern Illinois Cereal Company. No. 132,108; June 15; v. 275; p. 612.
Fertilizer. The Pocomoke Guano Co. No. 130,917; June 15; v. 275; p. 606.
Fertilizers. Société des Produits Azotés. No. 127,741; June 15; v. 275; p. 589.
Fire-extinguishers, Hand. W. S. Milliken. No. 127,321; June 15; v. 275; p. 588.
Fire-extinguishers, Mechanical. Sentinel Appliances Company. No. 130,690; June 15; v. 275; p. 604.
Flour, Wheat-. Concordia Mill & Elevator Company. No. 131,775; June 15; v. 275; p. 611.
Flour, Wheat-. The Mid-West Milling Company. No. 131,913; June 15; v. 275; p. 612.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 127,809; June 15; v. 275; p. 5.
Flour, Wheat-. The Theobald Flour Mills Co. No. 132,128; June 15; v. 275; p. 613.
Flour, Wheat-. The Theobald Flour Mills Co. No. 132,130; June 15; v. 275; p. 613.
Flour, Wheat-. Washburn Crosby Co. No. 130,704; June 15; v. 275; p. 605.
Flour, Wheat-. Washburn Crosby Co. Nos. 131,932–3; June 15; v. 275; p. 612.
Flush-tank and water-closet fittings. Indiana Brass Company. No. 129,326; June 15; v. 275; p. 596.
Food, Dairy, stock, cattle, &c. The Buckeye Cotton Oil Company. Nos. 132,288–9; June 15; v. 275; p. 614.
Food, Liquid. Kremo-lac Co. No. 117,188; June 15; v. 275; p. 578.
Food, Poultry. The Buckeye Cotton Oil Company. No. 132,291; June 15; v. 275; p. 614.
Food, Stock. Faber & Company. No. 126,016; June 15; v. 275; p. 585.
Forgings which have been given finishing work, Drop-. Washington Steel and Ordnance Company. No. 128,480; June 15; v. 275; p. 592.
Frocks, wash and woolen suits, &c., Children's. Miller & Macowsky. No. 118,235; June 15; v. 275; p. 579.
Games, Card. V. E. Soderquist. No. 129,864; June 15; v. 275; p. 599.
Gargle and corn-plasters. J. S. Roach. No. 128,111; June 15; v. 275; p. 590.
Garments, Youths' and boys' outer. Knickerbocker Clothing Co. No. 117,237; June 15; v. 275; p. 578.
Ginger ale, root-beer and cider. The Buckeye Producing Co. No. 130,018; June 15; v. 275; p. 600.
Glass tumblers. Albert Pick & Company. No. 132,403; June 15; v. 275; p. 614.
Gloves, Fabric and leather. F. A. Partick & Co. No. 130,921; June 15; v. 275; p. 606.
Grinding compositions. A. & A. Manufacturing Co. No. 130,009; June 15; v. 275; p. 600.
Grinding machines and parts thereof, Metal-working. Saphil Manufacturing Corporation. No. 121,680; June 15; v. 275; p. 581.
Grinding wheels, oil-stones, razor-hones. A. Goodrich Manufacturer, Inc. No. 129,383; June 15; v. 275; p. 596.
Gun-mounts, Mobile. The Holt Manufacturing Company. No. 121,625; June 15; v. 275; p. 581.
Hair and scalp, Preparation for the treatment of the. F. A. Gray. No. 128,962; June 15; v. 275; p. 594.
Hair-cream. C. A. Clements. No. 128,880; June 15; v. 275; p. 593.
Hair-dressing having no quinine. C. E. Hoffman Company. No. 128,779; June 15; v. 275; p. 593.
Hair-nets. National Hair Goods Co. No. 131,398; June 15; v. 275; p. 609.
Handkerchiefs, Long Handkerchief Co. No. 131,395; June 15; v. 275; p. 609.
Handkerchiefs. Robinson & Golluber. No. 124,534; June 15; v. 275; p. 583.
Handles, Tool-. Thurston-Bernay Co. No. 125,136; June 15; v. 275; p. 584.
Hardware, Articles of. Harper & McIntire Company. No. 123,693; June 15; v. 275; p. 582.
Hats, Trimmed. Patrician Hat Corporation. No. 129,471; June 15; v. 275; p. 596.
Heaters for hydrocarbon-motors, Mixture-. Packard Motor Car Company. No. 131,124; June 15; v. 275; p. 607.
Heaters, Natural and artificial, Gas water-. Cleveland Heater Co., The. No. 130,952; June 15; v. 275; p. 606.
Hides and leather, Raw. American Woolen Products Co. Nos. 129,164–5; June 15; v. 275; pp. 594–5.
Honey. F. H. Richardson. No. 131,354; June 15; v. 275; p. 609.
Hosiery. The Charles William Stores. No. 121,507; June 15; v. 275; p. 581.
Hosiery. Chipman Knitting Mills. Nos. 130,513–15; June 15; v. 275; p. 603.
Hosiery. F. A. Patrick & Co. No. 130,922; June 15; v. 275; p. 606.
Hosiery. J. F. Rohr. No. 130,618; June 15; v. 275; p. 604.
Hosiery. J. P. Voorhees. No. 130,998; June 15; v. 275; p. 606.
Hosiery. G. E. Weber. No. 130,635; June 15; v. 275; p. 604.
Hosiery, knit gloves, mittens, hocker-caps, knit socks and underwear. M. L. Pollard. No. 130,613; June 15; v. 275; p. 604.
Hydrometers. Taylor Instrument Companies. No. 116,978; June 15; v. 275; p. 577.
Ignition systems for internal-combustion engines and condensers. Philips-Brinton Company. No. 132,061; June 15; v. 275; p. 612.
Infants' creepers, children's and youths' rompers, &c. Stern, Giles & Riemer. No. 130,733; June 15; v. 275; p. 605.
Insoles made of felt composition. United States Rubber Company. No. 129,914; June 15; v. 275; p. 599.
Instruments for indicating, measuring, controlling, and recording temperature, vacuum, time operations, &c. Hohmann-Nelson Company. No. 130,171; June 15; v. 275; p. 601.
Insulators for electric conductors, Splice-. The Elasticap Company. No. 123,844; June 15; v. 275; p. 583.
Key-machines and jigs for filing tumblers of locks. Segal Lock & Hardware Co. No. 126,487; June 15; v. 275; p. 586.
Keys from keyholes, Attachments for preventing displacement of. J. W. Lindberg. No. 113,471; June 15; v. 275; p. 576.
Kilns, Lumber-drying. Curtis-Hosey Dryer Co. No. 129,830; June 15; v. 275; p. 599.
Knitted union-suits, Men's. The Mitchell Manufacturing Co. No. 129,017; June 15; v. 275; p. 594.
Leather and cut lacings, Lace-. Jewell Belting Company. No. 129,934; June 15; v. 275; p. 599.

Levels adapted to be removably attached within an opening in a board or the like having one straight edge. On-The-Dot Level Device. No. 130,177; June 15; v. 275; p. 601.

Link-buttons, vest-buttons, charms, tie-clasps made of or plated with precious metal. L. E. Garrigus & Co. No. 130,828; June 15; v. 275; p. 605.

Liquid preparation for cleaning and polishing silver and plate. E. H. Fudge. No. 130,132; June 15; v. 275; p. 601.

Liquid stove-polish. Slavin Bros. Company. No. 130,243; June 15; v. 275; p. 602.

Lotion and shampoo, Shaving-. M. A. Frost. No. 122,692; June 15; v. 275; p. 582.

Machinery, Hoisting. H. Druschel. No. 131,157; June 15; v. 275; p. 607.

Magazine, Bimonthly. The Procter & Collier Company. No. 125,579; June 15; v. 275; p. 584.

Magazine, Monthly. Brownstein-Louis Company. No. 120,692; June 15; v. 275; p. 580.

Magazine, Monthly. M. Heymann. No. 121,672; June 15; v. 275; p. 581.

Magazine, Monthly. Treat 'Em Rough Pub. Co. No. 126,978; June 15; v. 275; p. 587.

Magazine, Weekly. Motion Picture News. No. 119,955; June 15; v. 275; p. 579.

Malt extract for food purposes. Decatur Brewing Co. No. 131,316; June 15; v. 275; p. 609.

Marshmallows. Continental Candy Corporation. No. 132,008; June 15; v. 275; p. 612.

Meat-slicing machines. Victor Slicing Machine Co. No. 130,455; June 15; v. 275; p. 602.

Medicinal preparation for treatment of leucorrhea, gonorrhea, &c. F. Dahl. No. 128,597; June 15; v. 275; p. 592.

Metallic pipes, unions, and sections. W. H. Dorman & Co. No. 130,410; June 15; v. 275; p. 602.

Milk solids in powder form, Dried. California Central Creameries. No. 131,308; June 15; v. 275; p. 608.

Nails, spikes, bolts, steel and iron pipes, &c. American Iron Products Company. No. 130,740; June 15; v. 275; p. 605.

Needles for forming ornamental loops on fabrics, Hand-. C. Dubin. No. 130,023; June 15; v. 275; p. 600.

Needles, knitting-pins, &c., Sewing, embroidery, and knitting. Chas. Webb and Son. No. 130,456; June 15; v. 275; p. 603.

Newspapers. W. A. Neff. No. 120,427; June 15; v. 275; p. 580.

Odorizing and disinfectant compounds. Ideal Disinfectant Company. No. 128,093; June 15; v. 275; p. 590.

Oil, Lubricating-. A. Mullins. No. 122,402; June 15; v. 275; p. 582.

Oil, Olive-. D. Mangrane. Nos. 116,887–8; June 15; v. 275; p. 577.

Oils, dressings, and paste, polishes, Shoe and leather. The Master Manufacturing Co. No. 126,045; June 15; v. 275; p. 585.

Oleomargarin. The Procter and Gamble Company. No. 132,058; June 15; v. 275; p. 612.

Outfit, Woman's, &c. Lady Jane Hat Shops, Inc. No. 128,847; June 15; v. 275; p. 593.

Overalls, sack and grocers' coats, work-aprons, trousers, and workshirts. Burton Garment Mfg. Co. No. 129,695; June 15; v. 275; p. 598.

Paints and dry powders for making paints. Asbestomine Company. No. 118,580; June 15; v. 275; p. 579.

Paints, Ready-mixed. King Paint Manufacturing Company. No. 128,890; June 15; v. 275; p. 593.

Paints, varnish-stains, and clear varnish. W. W. Lawrence & Company. No. 128,101; June 15; v. 275; p. 590.

Paints, varnishes, &c. California Paint Company. No. 116,954; June 15; v. 275; p. 577.

Paints, varnishes, &c., Oil-. Ottawa Paint Works. No. 125,301; June 15; v. 275; p. 584.

Paper and paper toweling, Toilet, tissue, and wrapping. The John Hoberg Co. No. 120,386; June 15; v. 275; p. 580.

Paper for fabric filing and indexing devices. The Expedite Organization. No. 129,877; June 15; v. 275; p. 599.

Paper, Wrapping-. Brown Company. Nos. 129,370–1; June 15; v. 275; p. 596.

Paper, Writing-. R. H. Macy & Co. No. 131,116; June 15; v. 275; p. 607.

Pearls, Imitation or artificial. F. C. Osmers. No. 116,207; June 15; v. 275; p. 576.

Perfumes. E. H. Baker. No. 128,648; June 15; v. 275; p. 592.

Periodical, Monthly. A. H. Lawrence. No. 127,093; June 15; v. 275; p. 588.

Petticoats and bloomers. M. A. Karaian. No. 122,217; June 15; v. 275; p. 581.

Phonograph-meters. Splitdorf Electrical Company. No. 126,879; June 15; v. 275; p. 587.

Phonographs. Charles H. Elting & Company. No. 125,377; June 15; v. 275; p. 584.

Phonographs, Needle-holding attachments for the sound-boxes of. The Jemtone Co. No. 125,506; June 15; v. 275; p. 584.

Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. No. 126,460; June 15; v. 275; p. 586.

Pianos, organs, phonographs, player-pianos. A. J. Crafts Piano Co. No. 123,337; June 15; v. 275; p. 582.

Pills, Liver-. L. F. Birdsong. No. 128,264; June 15; v. 275; p. 591.

Piston-ring compressors. Victory Ring Compressor Company. No. 130,397; June 15; v. 275; p. 602.

Placket and glove fasteners, needles, pins, &c. Waldes & Co. No. 121,073; June 15; v. 275; p. 580.

Plows, markers, harrows, &c. W. Eddy Plow Co. No. 128,203; June 15; v. 275; p. 590.

Pots, pans, boilers, bowls, &c. National Enameling & Stamping Co. No. 126,943; June 15; v. 275; p. 587.

Powder, Explosive. M. A. Regine. No. 128,277; June 15; v. 275; p. 591.

Powders, rouges, &c., Talcum, face, and compact. M. Levy. No. 129,265; June 15; v. 275; p. 595.

Precious stones, jewelry, semi-precious and artificial precious stones, &c. H. Weissman. No. 131,138; June 15; v. 275; p. 607.

Preparation for colds, grippe, headaches, lumbago, earache, &c. The American Laboratories Co. No. 128,751; June 15; v. 275; p. 592.

Priming cups and independent sight-feeds. Michigan Lubricator Company. No. 119,273; June 15; v. 275; p. 579.

Publication, Biweekly. D. L. Michaelson. No. 124,657; June 15; v. 275; p. 583.

Publication, Weekly. A. T. Jory. No. 125,703; June 15; v. 275; p. 585.

Pumps, water-supply systems and parts thereof, &c. Decatur Pump & Mfg. Co. No. 118,081; June 15; v. 275; p. 578.

Razors and blades, Safety. Madden Safety Razor Corporation. No. 129,901; June 15; v. 275; p. 599.

Rings, brooches, bar-pins, sterling and plated tableware, &c., Finger-. C. I. Josephson. No. 128,733; June 15; v. 275; p. 592.

Rope, cord, twine, and binder-twine. International Harvester Company. No. 129,719; June 15; v. 275; p. 598.

Rowlock-sockets. J. B. Church. No. 130,268; June 15; v. 275; p. 602.

Rubber boots and shoes. Bourn Rubber Co. No. 116,251; June 15; v. 275; p. 577.

Rubber mats. United States Rubber Company. No. 129,107; June 15; v. 275; p. 594.

Rug, Woolen-felt. E. Samuels. No. 127,775; June 15; v. 275; p. 589.

Rugs, Wool and cotton. Empire Carpet Co. No. 131,158; June 15; v. 275; p. 607.

Shields, Dress-. Brooklyn Shield & Rubber Company. No. 129,489; June 15; v. 275; p. 596.

Salve for boils, carbuncles, old sores, poisonous bites, eczema, &c. J. M. Beck. No. 128,721; June 15; v. 275; p. 592.

Salve for sores, cuts, &c. E. W. Wall. No. 128,123; June 15; v. 275; p. 590.

Sardines, fish branded as sardines, and small fish. W. S. Nichols. No. 128,612; June 15; v. 275; p. 592.

Saws, The Oldham New York Saw Works. No. 129,339; June 15; v. 275; p. 596.

Scarf-pins, hairpins, pendants, &c. Wachenheimer Bros. No. 127,877; June 15; v. 275; p. 589.

Screen-wire cloth. American Wire Fabrics Company. No. 130,871; June 15; v. 275; p. 605.

Shaving-cream for use before shaving. A. A. Vantine & Co. No. 130,997; June 15; v. 275; p. 605.

Shirts, overalls, pants, &c., Men's. Beaumont Dry Goods & Notions Co. No. 129,693; June 15; v. 275; p. 597.

Shoes (Canvas and rubber), rubber soles and heels, &c. W. MacPherson. No. 128,479; June 15; v. 275; p. 591.

Silk and velvet piece goods. Condurier, Fructus & Descher. No. 130,519; June 15; v. 275; p. 603.

Silk piece goods. B. Hart & Brother. No. 131,167; June 15; v. 275; p. 607.

Silk piece goods. Puritan Silks Corporation. No. 131,187; June 15; v. 275; p. 608.

Silk piece goods, Woven and knitted. M. Strauss. No. 131,832; June 15; v. 275; p. 611.

Silver-plated hollow and flat-ware. L. D. Bloch & Co. No. 130,715; June 15; v. 275; p. 605.

Skin-cream. M. Morgan. No. 128,795; June 15; v. 275; p. 593.

Skins, Fur-. A. Hollander & Son. No. 126,215; June 15; v. 275; p. 586.

Smokers' articles. Redmanol Chemical Products Co. No. 130,060; June 15; v. 275; p. 600.

Soap. Oakley Chemical Co. No. 123,254; June 15; v. 275; p. 582.

Soap and shaving soap. Lehn & Fink. No. 131,394; June 15; v. 275; p. 609.

Soap, White laundry. The Federal Soap Company. No. 124,787; June 15; v. 275; p. 583.

Soaps, Toilet. The Armand Company. No. 101,635; June 15; v. 275; p. 575.

Spark-plugs. P. J. Donavan. No. 131,783; June 15; v. 275; p. 611.

Spark-plugs. The Ignition Plug Co. No. 117,619; June 15; v. 275; p. 578.

Spark-plugs. Kant Break Spark Plug Company. No. 131,876; June 15; v. 275; p. 611.

Spray systems for chemical and other industrial operations, pumps, &c. Chemical Equipment Company. No. 126,168; June 15; v. 275; p. 586.

Sprayers and parts thereof for spraying trees, &c. Albert Lea Sprayer Company. No. 127,060; June 15; v. 275; p. 587.

Springs, Lubricating strips for leaf-. Merrill-Hamilton Company. No. 126,256; June 15; v. 275; p. 586.

Sprocket-chain links. Spaulding Chain Corporation. No. 130,063; June 15; v. 275; p. 600.

Stands or supports, especially designed for holding sad-irons. H. L. Galbraith. No. 128,837; June 15; v. 275; p. 593.

Staple making and driving machines. Eveready Mfg. Company of Boston. No. 129,173; June 15; v. 275; p. 595.

Steel. Heppenstall Forge & Knife Company. Nos. 130,472–3; June 15; v. 275; p. 603.

Steel. Stavanger Electro-Staalverk, A. S. No. 116,473; June 15; v. 275; p. 577.

Straw-spreaders of trailer type. Kramer Rotary Harrow Co. No. 117,808; June 15; v. 275; p. 578.

Strops. The Henkel-Clauss Co. No. 131,074. June 15; v. 275; p. 607.

Suits, overcoats, shirts, &c., for men, and boys. Samuel Livingston & Son. No. 120,353; June 15; v. 275; p. 579.

Suspenders. The Russell Manufacturing Company. No. 132,560; June 15; v. 275; p. 614.

Sweeping compound. A. R. Wolf. No. 116,450; June 15; v. 275; p. 577.

Switches, switch and panel boards, &c. The Trumbull Electric Manufacturing Company. No. 129,101; June 15; v. 275; p. 594.

Syrups used in making soft drinks. H. Herman. No. 123,694; June 15; v. 275; p. 582.

Tablet, Laxative. O. S. Lyttleton. No. 120,250; June 15; v. 275; p. 579.

Tablet used in the treatment of colds, neuralgia, &c. R. J. Moore. No. 127,695; June 15; v. 275; p. 588.

Tablets, Herb. S. D. Clegg. No. 129,046; June 15; v. 275; p. 594.

Talking-machine needles. Blackman Talking Machine Co. No. 125,937; June 15; v. 275; p. 585.

Talking-machines. H. Paulson. No. 127,485; June 15; v. 275; p. 588.

Teeth, Artificial. The Dentists' Supply Company. No. 128,957; June 15; v. 275; p. 594.

Telephones, switchboards, circuit-breakers, &c. Kellogg Switchboard and Supply Company. No. 111,274; June 15; v. 275; p. 576.

Thimbles, Sewing-. Ansonia Novelty Co. No. 131,299; June 15; v. 275; p. 608.

Thread and yarn. Naamlooze Vennootschap J. A. Carp's Garenfabrieken. No. 114,226; June 15; v. 275; p. 576.

Thread, yarn, and crochet embroidery-cotton. Asmus Bradley Co. No. 131,007; June 15; v. 275; p. 606.

Timepieces. F. W. Alter. No. 124,831; June 15; v. 275; p. 583.

Timothy, clover, grass, and lawn seeds, &c. Whitney-Eckstein Seed Co. No. 126,501; June 15; v. 275; p. 586.

Tire-pumps. S. Blickman. No. 127,497; June 15; v. 275; p. 588.

Tire-vulcanizing apparatus. A. E. Nolan. No. 129,737; June 15; v. 275; p. 598.

Tires, shoes, &c., Preparation for filling cavities and healing cuts in rubber. J. T. Flaherty. No. 128,205; June 15; v. 275; p. 590.

Tobacco, Smoking-. R. J. Lea, Limited. No. 117,844; June 15; v. 275; p. 578.

Tomato sauce, Bottled. J. Menefee. No. 122,259; June 15; v. 275; p. 581.

Tonic and conditioner for use for horses only. The Avalon Farms Company. No. 128,645; June 15; v. 275; p. 592.

Tonic medicinal preparation Chester Kent & Co. No. 126,129; June 15; v. 275; p. 585.

Tonic, Reconstructive. P. A. Williams. No. 130,603; June 15; v. 275; p. 600.

Tools comprising wrenches, hammers, and screwdrivers. E. Edelmann & Company. No. 130,205; June 15; v. 175; p. 602.

Toothpicks. Cutter Tower Company. No. 126,451; June 15; v. 275; p. 586.

Toy airplanes. Lawrence Airplane Model and Supply Company. No. 118,388; June 15; v. 275; p. 579.

Toys and top dishes, Mechanical. Wolverine Supply & Mfg. Co. No. 126,231; June 15; v. 275; p. 586.

Tractors. The Line Drive Tractor Inc. No. 102,379; June 15; v. 275; p. 575.

Trucks and automobiles, Motor-. Fageol Motors Company. No. 122,529; June 15; v. 275; p. 582.

Typewriters, &c., Material in sheet form to be made into protective coverings for the platens or rolls of. C. I. Hendricks. No. 130,034; June 15; v. 275; p. 600.

Typewriting-machines. Gourland Typewriter Corporation. No. 130,218; June 15; v. 275; p. 602.

Underwear, hosiery, gloves, &c. Turner Furnishing Goods Company. No. 129,517; June 15; v. 275; p. 597.

Underwear, hosiery, headwear, gloves, &c. Turner Furnishing Goods Company. No. 129,761; June 15; v. 275; p. 598.

Valves for automobile fuel-tanks. Locktite Patch Company. No. 129,217; June 15; v. 275; p. 595.

Valves for pipe-lines, fittings for air, water, steam and other pipes, &c. Barco Manufacturing Company. No. 130,198; June 75; v. 275; p. 601.

Valves, Radiator-. Michigan Lubricator Company. No. 130,679; June 15; v. 275; p. 604.

Vehicles, Clutches and universal joints for motor-. Merchant & Evans Company. No. 127,518; June 15; v. 275; p. 588.

Veil and hair-nets, &c., Combination. National Trading Company. No. 131,438; June 15; v. 275; p. 610.

Vinegar, canned fruits and vegetables Dixie Fruit Products Corporation. No. 118,959; June 15; v. 275; p. 579.

Washing machine, Laundry-. Rochester Electrical Supply Co. No. 128,171; June 15; v. 275; p. 590.

Window and door frames, Wooden. Andersen Lumber Company. No. 131,246; June 15; v. 275; p. 608.

Wool and cotton admixture piece goods. Edward Ripley & Son. No. 122,497; June 15; v. 275; p. 582.

Woolen piece goods. Forstmann & Huffmann Co. No. 131,261; June 15; v. 275; p. 608.

Woolen piece goods, Worumbo Manufacturing Company. Nos. 131,368–9; June 15; v. 275; p. 609.

Wreath, Floral. G. L. Straub. No. 131,401; June 15; v. 275; p. 610.

Wrenches, Walworth Mfg. Co. No. 129,868; June 15; v. 275; p. 599.

CLASSIFICATION OF PATENTS

ISSUED JUNE 15, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 15: 1,343,561
50: 1,343,289
2— 84: 1,343,623
151: 1,343,371
3— 2: 1,343,297
1,343,298
11: 1,343,617
4— 5: 1,343,261
1,343,890
17: 1,343,730
32: 1,343,287
1,343,830
39: 1,343,406
5— 3: 1,343,881
12: 1,343,593
15: 1,343,357
29: 1,343,565
65: 1,343,020
8— 1.5: 1,343,355
19: 1,343,260
20: 1,343,804
9— 15: 1,343,491
16: 1,343,429
10— 27: 1,343,720
107: 1,343,435
154: 1,343,503
12— 78: 1,343,379
142: R. 14,882
15— 16: 1,343,466
39: 1,343,713
51: 1,343,223
52: 1,343,240
1,343,570
59: 1,343,310
63: 1,343,356
16— 4: 1,343,758
7: 1,343,789
11: 1,343,332
18— 2: 1,343,460
3.5: 1,343,408
42: 1,343,425
45: 1,343,504
50: 1,343,377
53: 1,343,224
55: 1,343,191
1,343,575
20— 6: 1,343,234
22: 1,343,416
42: 1,343,520
68: 1,343,304
69: 1,343,324
89: 1,343,216
92: 1,343,209
21— 36: 1,343,258
57: 1,343,272
209: 1,343,658
22— 20: 1,343,386
31: 1,343,335
33: 1,343,835
45: 1,343,836
23— 13: 1,343,390
1,343,401
1,343,725
22: 1,343,400
1,343,443
1,343,508
24: 1,343,715
1,343,716
24— 138: 1,343,496
155: 1,343,736
218: 1,343,506
248: 1,343,301
249: 1,343,548
260: 1,343,514
25— 42: 1,343,581
121: 1,343,572
26— 18: 1,343,385
27— 8: 1,343,280
28— 2: 1,343,854
21: 1,343,230
1,343,388
24: 1,343,452
29— 43: 1,343,344
84: 1,343,351
85: 1,343,661
29— 88.2: 1,343,431
100: 1,343,257
104: 1,343,276
30— 5: 1,343,811
31— 21: 1,343,402
32— 1: 1,343,691
33— 62: 1,343,515
80: 1,343,600
90: 1,343,604
143: 1,343,227
1,343,479
157: 1,343,664
206: 1,343,657
35— 8: 1,343,244
9: 1,343,721
36— 30: 1,343,450
35: 1,343,528
36: 1,343,353
41: 1,343,602
42: 1,343,638
72: 1,343,329
37— 25: 1,343,734
58: 1,343,533
38— 12: 1,343,816
40— 2: 1,343,423
5: 1,343,569
27: R. 14,883
67: 1,343,248
68: 1,343,646
107: 1,343,601
125: 1,343,247
1,343,837
41— 21: 1,343,806
42— 3: 1,343,444
41: 1,343,583
43— 118: 1,343,592
45— 57: 1,343,229
77: 1,343,513
82: 1,343,636
94: 1,343,742
116: 1,343,810
135: 1,343,703
46— 21: 1,343,838
40: 1,343,422
48: 1,343,834
49— 78.1: 1,343,686
51— 3: 1,343,522
7: 1,343,342
11: 1,343,710
1,343,711
13: 1,343,350
58: 1,343,492
52— 3: 1,343,317
53— 1: 1,343,738
3: 1,343,582
6: 1,343,395
55— 60: 1,343,805
66: 1,343,558
91: 1,343,827
146: 1,343,366
56— 220: 1,343,884
422: 1,343,775
480: 1,343,624
57— 116: 1,343,410
58— 14: 1,343,302
116: 1,343,798
59— 98: 1,343,495
60— 14: 1,343,449
16: 1,343,226
26: 1,343,577
37: 1,343,536
41: 1,343,473
53: 1,343,338
1,343,749
70: 1,343,671
95: 1,343,665
102: 1,343,666
61— 13: 1,343,871
69: 1,343,744
62— 118: R. 14,884
R. 14,885
63— 28: 1,343,246
64— 36: 1,343,321
1,343,876
61: 1,343,885
96: 1,343,413
102: 1,343,728
65— 15: 1,343,606
67— 63: 1,343,672
1,343,673
77: 1,343,217
68— 27: 1,343,699
70— 7: 1,343,615
46: 1,343,438
1,343,712
50: 1,343,731
90: 1,343,192
1,343,424
1,343,709
1,343,856
126: 1,343,405
1,343,459
1,343,807
1,343,870
72— 13: 1,343,832
41: 1,343,312
46: 1,343,637
66: 1,343,659
122: 1,343,326
73— 52: 1,343,454
74— 5: 1,343,407
33: 1,343,531
46: 1,343,580
1,343,750
53: 1,343,254
58: 1,343,189
79: 1,343,305
1,343,846
81: 1,343,378
109: 1,343,828
119: 1,343,697
75— 17: 1,343,656
18: 1,343,619
73: 1,343,249
1,343,250
77— 2: 1,343,517
32: 1,343,370
78— 82: 1,343,346
89: 1,343,277
80— 37: 1,343,652
66: 1,343,753
81— 3: 1,343,632
55: 1,343,667
58: 1,343,692
79: 1,343,448
169: 1,343,526
185: 1,343,882
82— 44: 1,343,273
83— 44: 1,343,848
54: 1,343,497
56: 1,343,292
1,343,878
64: 1,343,215
85: 1,343,313
88: 1,343,266
1,343,683
92: 1,343,458
84— 8: 1,343,883
26: 1,343,516
48: 1,343,595
161: 1,343,237
168: 1,343,442
86— 23: 1,343,588
87— 12: 1,343,255
88— 24: 1,343,888
1,343,889
26: 1,343,598
50: 1,343,437
89— 7: 1,343,456
90— 4: 1,343,396
24.3: 1,343,554
91— 42: 1,343,887
70.2: 1,343,842
92— 43: 1,343,505
93— 40: 1,343,748
91: 1,343,290
94— 23: 1,343,680
95— 22: 1,343,590
68: 1,343,773
72: 1,343,653
81: 1,343,613
97— 26: 1,343,564
28: 1,343,269
46: 1,343,777
97— 71: 1,343,866
81: 1,343,225
98— 4: 1,343,763
27: 1,343,576
100— 44: 1,343,872
101— 327: 1,343,633
373: 1,343,511
389: 1,343,220
413: 1,343,537
102— 29: 1,343,557
1,343,747
39: 1,343,415
103— 76: 1,343,574
82: 1,343,427
84: 1,343,190
1,343,510
104— 260: 1,343,614
105— 73: 1,343,698
154: 1,343,631
220: 1,343,618
358: 1,343,241
377: 1,343,291
457: 1,343,281
106— 8: 1,343,282
107— 51: 1,343,844
108— 8: 1,343,785
1,343,786
10: 1,343,792
28: 1,343,461
110— 44: 1,343,702
87: 1,343,243
112— 68: 1,343,337
73: 1,343,278
189: 1,343,823
113— 24: 1,343,538
68: 1,343,493
114— 16: 1,343,643
80: 1,343,392
116— 11: 1,343,271
41: 1,343,761
47: 1,343,361
54: 1,343,529
74: 1,343,365
118— 64: 1,343,704
119— 51: 1,343,349
55: 1,343,817
153: 1,343,213
1,343,596
120— 8: 1,343,621
28: 1,343,527
47: 1,343,521
87: 1,343,796
103: 1,343,245
121— 18: 1,343,610
1,343,649
49: 1,343,316
50: 1,343,612
122— 6.5: 1,343,314
392: 1,343,654
444: 1,343,824
123— 12: 1,343,635
25: 1,343,858
52: 1,343,668
65: 1,343,803
75: 1,343,678
90: 1,343,525
108: 1,343,808
169: 1,343,348
126— 369: 1,343,849
371: 1,343,644
127— 8: 1,343,737
128— 29: 1,343,486
57: 1,343,432
218: 1,343,787
130— 32: 1,343,586
131— 12: 1,343,253
132— 22: 1,343,239
133— 1: 1,343,800
134— 24: 1,343,259
56: 1,343,387
58: 1,343,441
1,343,446
1,343,447
1,343,468
135— 73: 1,343,631
137— 75: 1,343,236
103: 1,343,550
104: 1,343,421
139— 52: 1,343,663
140— 75: 1,343,267
142— 38: 1,343,319
144— 288: 1,343,553
309: 1,343,320
145— 21: 1,343,627
61: 1,343,323
146— 7: 1,343,589
9: 1,343,439
148— 25: 1,343,359
151— 6: 1,343,334
152— 2: 1,343,784
5: 1,343,233
1,343,685
8: 1,343,540
191— 14: 1,343,766
193— 1: 1,343,417
18: 1,343,418
21: 1,343,394
32: 1,343,840
1,343,860
33: 1,343,567
36: 1,343,684
38: 1,343,861
153— 2: 1,343,647
81: 1,343,571
154— 10: 1,343,399
51: 1,343,478
52: 1,343,368
155— 2: 1,343,594
17: 1,343,523
156— 24: 1,343,284
1,343,859
158— 7.5: 1,343,315
161— 1: 1,343,693
164— 18: 1,343,639
29: 1,343,383
1,343,759
165— 1: 1,343,693
166— 14: 1,343,426
167— 3: 1,343,579
168— 3: 1,343,436
19: 1,343,874
169— 8: 1,343,364
171— 123: 1,343,451
313: 1,343,765
314: 1,343,597
172— 36: 1,343,221
1,343,362
173— 263: 1,343,251
355: 1,343,573
361: 1,343,676
174— 177: 1,343,512
175— 21: 1,343,719
183: 1,343,372
341: 1,343,404
367: 1,343,751
177— 311: 1,343,196
330: 1,343,524
343: 1,343,256
178— 115: 1,343,754
179— 18: 1,343,462
1,343,714
27: 1,343,489
107: 1,343,717
171: 1,343,306
1,343,307
1,343,308
180— 1: 1,343,687
12: 1,343,303
14: 1,343,783
33: 1,343,788
43: 1,343,358
54: 1,343,464
89: 1,343,519
183— 7: 1,343,265
1,343,482
184— 13: 1,343,376
27: 1,343,677
185— 37: 1,343,584
186— 14: 1,343,801
187— 58: 1,343,328
188— 151: 1,343,389
189— 29: 1,343,543
43: 1,343,739
46: 1,343,545
49: 1,343,757
92: 1,343,384
190— 58: 1,343,195
191— 14: 1,343,475
59: 1,343,592
198— 1: 1,343,417
2: 1,343,369
8: 1,343,799
33: 1,343,675
60: 1,343,373
195— 1: 1,343,587
196— 25: 1,343,674
197— 139: 1,343,509
200— 17: 1,343,214
1,343,219
1,343,232
1,343,218
18: 1,343,793
48: 1,343,880
142: 1,343,803
204— 19: 1,343,662
29: 1,343,380
1,343,708
206— 3: 1,343,374
31: 1,343,354
44: 1,343,420
56: 1,343,360
208— 21: 1,343,616
97: 1,343,820
165: 1,343,566
210— 6: 1,343,764
16: 1,343,679
18: 1,343,797
211— 12: 1,343,723
20: 1,343,794
25: 1,343,681
27: 1,343,327
1,343,818
28: 1,343,526
34: 1,343,651
212— 3: 1,232,630
73: 1,343,756
77: 1,343,434
213— 64: 1,343,295
1,343,296
214— 1: 1,343,288
1,343,300
18: 1,343,465
65: 1,343,398
1,343,471
93: 1,343,746
215— 9: 1,343,760
99: 1,343,299

216—	53:	1,343,264	224—	21:	1,343,726	240—	119:	1,343,705	251—	119:	1,343,534	265—	9:	1,343,476	284—	6:	1,343,852
217—	4:	1,343,809	226—	37:	1,343,867	242—	32:	1,343,481		126:	1,343,311		12:	1,343,611		18:	1,343,819
	60:	1,343,347	227—	5:	1,343,642		43.3:	1,343,333		145:	1,343,375		42:	1,343,556	285—	26:	1,343,877
219—	8:	1,343,194	228—	4:	1,343,500		46.5:	1,343,839		165:	1,343,530	267—	50:	1,343,453		86:	1,343,853
		1,343,242		58:	1,343,445		70:	1,343,628	252—		1,343,585		64:	1,343,560		189:	1,343,228
	15:	1,243,199	229—	3:	1,343,724		156:	1,343,768	254—	2:	1,343,864	270—	31:	1,343,339		194:	1,343,463
		1,343,200		5:	1,343,235		159:	1,343,238		67:	1,343,336		53:	1,343,231	286—	7:	1,343,603
		1,343,201		6:	1,343,252	244—	1:	1,343,831		86:	1,343,274	271—	52:	1,343,791	287—	32:	1,343,781
		1,343,202		14:	1,343,391		2:	1,343,769			1,343,845		53:	1,343,608		53:	1,343,733
		1,343,203		32:	1,343,193		6:	1,343,428		93:	1,343,701		54:	1,343,648	290—	31:	1,343,409
		1,343,204		92.3:	1,343,419		12:	1,343,433		94:	1,343,275	274—	2:	1,343,622		38:	1,343,222
		1,343,205	230—	32:	1,343,270			1,343,498		103:	1,343,732		9:	1,343,640	292—	212:	1,343,851
		1,343,206	233—	1:	1,343,325		29:	1,343,850		114:	1,343,430		38:	1,343,507		228:	1,343,322
		1,343,207	235—	1:	1,343,535		31:	1,343,707		131:	1,343,802	275—	8:	1,343,265	293—	9:	1,343,727
		1,343,208		61:	1,343,198	246—	126:	1,343,467		166:	1,343,625	277—	7:	1,343,488		55:	1,343,740
		1,343,607		70:	1,343,549		186:	1,343,857	255—	26:	1,343,541		46:	1,343,735			1,343,741
	38:	1,343,848		87:	1,343,660		437:	1,343,483			1,343,542	279—	59:	1,343,795	294—	28:	1,343,518
	49:	1,343,689		91:	1,343,875		487:	1,343,841		35:	1,343,821		104:	1,343,552		85:	1,343,641
		1,343,690	236—	44:	1,343,873	248—	20:	1,343,499	256—	54:	1,343,770	280—	6:	1,343,268	296—	59:	1,343,263
	50:	1,343,472	237—	2:	1,343,330		27:	1,343,363		58:	1,343,544		33.1:	1,343,790		66:	1,343,655
220—	1:	1,343,779		78:	1,343,718		30:	1,343,568		73:	1,343,367		33.4:	1,343,197		77:	1,343,847
	9:	1,343,688		79:	1,343,414		31:	1,343,279			1,343,559		56:	1,343,650		84:	1,343,318
	21:	1,343,629	238—	8:	1,343,869		48:	1,343,855	257—	98:	1,343,833		96.2:	1,343,774			1,343,440
	24:	1,343,480		31:	1,343,813		49:	1,343,381		129:	1,343,352		106:	1,343,682	298—	19:	1,343,283
	33:	1,343,474		61:	1,343,262		57:	1,343,340		227:	1,343,669		145:	1,343,772	299—	116:	1,343,780
221—	23:	1,343,782		231:	1,343,605	250—	1:	1,343,393	259—	91:	1,343,532	281—	15:	1,343,778		141:	1,343,412
	62:	1,343,825		271:	1,343,814		8:	1,343,562		131:	1,343,829	282—	27:	1,343,762	303—	20:	1,343,210
	103:	1,343,696		324:	1,343,563		27:	1,343,551	261—	39:	1,343,455	283—	9:	1,343,865		52:	1,343,695
	122:	1,343,802	240—	2:	1,343,767		34:	1,343,599	263—	11:	1,343,470		41:	1,343,755		62:	1,343,694
	143:	1,343,286		41:	1,343,309	251—	6:	1,343,669		14:	1,343,843		63:	1,343,879	304—	26:	1,343,546
223—	19:	1,343,397		48.4:	1,343,886		18:	1,343,477		46:	1,343,457						
	32:	1,343,729		61:	1,343,822		109:	1,343,490									

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 275—No. 4. TUESDAY, JUNE 22, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page
ISSUE OF JUNE 22, 1920	627
ADVERSE DECISIONS IN INTERFERENCE	627
DISCLAIMERS	627
DRAWINGS	627
APPLICATIONS UNDER EXAMINATION	628
PATENTS GRANTED	629
REISSUES	770
DESIGNS	773
TRADE-MARKS—REGISTRATION APPLIED FOR	783
TRADE-MARK REGISTRATIONS GRANTED	815
LABELS	826
DECISIONS OF THE U. S. COURTS—	
Christo Manufacturing Company v. The Christian Moerlein Brewing Company	827
Bellows and Slack v. The New York Central Railroad Company	827
INTERFERENCE NOTICES	829
CHANGES IN CLASSIFICATION	830

Issue of June 22, 1920.

Patents	717—No.	1,343,891 to No.	1,344,607, inclusive.
Designs	44—No.	55,500 to No.	55,543, inclusive.
Trade-Marks	323—No.	132,279 to No.	132,601, inclusive.
Labels	2—No.	21,874 to No.	21,875, inclusive.
Reissues	14—No.	14,886 to No.	14,899, inclusive.
Total	1100		

Adverse Decisions in Interference.

PATENT NO. 1,144,997.

On May 22, 1920, a decision was rendered that Albert M. Bullard was not the first inventor of the subject-matter covered by claims 41 and 42 of his Patent No. 1,144,997, subject, "Telephone trunking system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,194,339.

On May 22, 1920, a decision was rendered that Talbot G. Martin was not the first inventor of the subject-matter covered by claims 83, 84, 88, 89, 94, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, and 112 of his Patent No. 1,194,339, subject, "Telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,235,475.

On May 21, 1920, a decision was rendered that Francis Hickman was not the first inventor of the subject-matter covered by claims 4 and 5 of his Patent No. 1,235,475, subject, "Lubricating strip or element," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,301,187.

On May 19, 1920, a decision was rendered that Fin Sparre was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 9, and 10 of his Patent No. 1,301,187, subject, "Pyroxylin composition," and no appeal having been taken within the time allowed such decision has become final.

Disclaimers.

1,240,167.—*Joseph Berg*, Chicago, Ill. VEHICLE-BUMPER SUPPORT. Patent dated September 18, 1917. Disclaimer filed June 5, 1920, by the assignee, *Stewart-Warner Speedometer Corporation*.

Enters this disclaimer—

To all of the claims in said specification.

1,052,166.—*Charles Nessler*, London, England. APPARATUS FOR WAVING NATURAL HAIR ON THE HEAD. Patent dated February 4, 1913. Disclaimer filed June 9, 1920, by the assignee, *Nestle Patent Holding Co., Inc.*

Makes disclaimer of that part of the claim of said patent which is identified as follows, to wit:

"5. In apparatus for waving hair, the combination of a curler, a tube closed at its outer end and adapted to receive the curler with the hair thereon, means for binding said tube at or near its open end around the curled hair, and a heater within which said tube with its contents may be inserted."

Drawings.

PRECAUTIONS TO BE OBSERVED IN FORWARDING DRAWINGS TO THE UNITED STATES PATENT OFFICE.

Where drawings are to be filed in connection with an application for Letters Patent in the United States Patent Office, each sheet, before it can be accepted by the Office as a part of the application, must be signed in the name of the inventor at the lower right-hand corner, either by him or by an attorney whose written authorization from the applicant is filed in connection with the application. The signatures should never be written on a line parallel with the longer edges of the sheet, one of the shorter edges being always regarded, for the purpose of locating the signatures, as the lower edge of the sheet. The signatures must all be within the margin-lines of the sheet and below the lines of the drawing. The title of the invention should be written with pencil on the back of each sheet of drawings.

When there are filed on the same day two or more applications by the same inventor, each of the documents and drawings belonging to the same application should have placed thereon the same letter or number, which should be different from the letter or number placed upon those of any other of the applications.

It is desirable that all parts of the complete application, including the drawings, be deposited in the Office at the same time. Should, however, the other parts of the application be filed before the drawings are sent, the latter when forwarded should be accompanied by a letter stating the number of sheets inclosed, and that the drawings are to be filed with the other parts of the application, giving the date at which such other parts were filed in the Office, the name of the inventor, and title of the invention. If the application has received a serial number, that should also be given, and it should be indorsed with pencil on the back of each sheet of drawings. The letter should also state, if such be the case, that the new drawings are to be substituted for those previously filed.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business June 12, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Feb. 27	398
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Oct. 10	Jan. 20	955
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Aug. 31	601
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 27	Mar. 29	1,279
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Feb. 12	Mar. 4	342
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 7	Apr. 8	451
312	7. Games and Toys; Optics; Photography; Velocipedes	Feb. 17	Mar. 26	833
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 13	May 17	340
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 12	Jan. 5	512
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Jan. 12	Apr. 1	936
151	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Feb. 2	Feb. 16	739
222	12. Machine Elements	Nov. 3	Apr. 7	1,118
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 16	Apr. 6	1,129
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 31	Feb. 20	608
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 10	Mar. 18	1,058
111	16. Radiant Energy; Telegraphy; Telephony	Oct. 24	Dec. 8	878
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 29	May 3	235
229	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 3	Dec. 24	942
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 11	Jan. 10	571
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 21	Mar. 24	681
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 10	Apr. 22	411
249	22. Aeronautics; Firearms; Ordnance	Mar. 18	Mar. 26	244
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 22	Apr. 12	632
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Nov. 19	Apr. 17	567
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 20	May 3	205
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 24	Nov. 3	724
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 19	Mar. 31	553
225	28. Internal-Combustion Engines	Jan. 19	Apr. 8	603
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Oct. 25	Apr. 17	645
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 2	Apr. 20	1,017
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 6	Aug. 30	1,008
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Oct. 8	Feb. 4	1,160
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 29	Apr. 1	507
301	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 24	May 26	114
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 1	May 20	466
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 11	Mar. 2	1,122
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 20	Jan. 31	1,211
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 29	Apr. 9	561
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 10	Nov. 10	1,047
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 26	Feb. 25	767 772
125	41. Resilient Tires and Wheels	Oct. 31	Mar. 3	
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling	Dec. 11	Jan. 22	1,046
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 12	Mar 5	846 304
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Jan. 31	Apr. 12	801
379	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Jan. 8	Feb. 3	
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Nov. 15	Jan. 3	783

Oldest new case, Sept. 11; oldest amended, Aug. 39.
Total number of applications awaiting action 32,722

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	Mar. 3	2,123
	Designs	Dec. 26	Mar. 18	803
	Labels and Prints	Feb. 2	Feb. 2	1,011

PATENTS

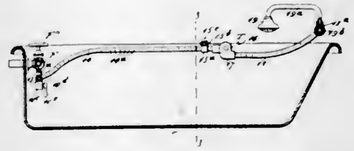
GRANTED JUNE 22, 1920.

1,343,891. SHOE-TREE. ARTHUR R. ANDERSON, North Arlington, N. J. Filed June 30, 1919. Serial No. 307,494. 4 Claims. (Cl. 12—131.)



1. In a stretcher for use as described, the combination with front and rear members, of a toggle lever having links pivotally connected with said members, one link being slotted longitudinally, a pin carried by the other link and slidably arranged in said slot, a strap secured at one end to said pin and having its other end extending over the other link, and an adjusting bolt extending through said strap and said elongated slot.

1,343,892. SHOWER-BATH ATTACHMENT. SALVATORE BAGNULO, Revere, Mass. Filed Feb. 15, 1919. Serial No. 277,204. 2 Claims. (Cl. 4—26.)



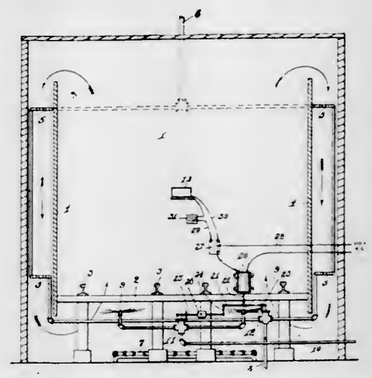
1. A shower attachment for bath tubs, comprising a spray pipe conduit formed and adapted to extend around the inner edge of the top of the tub with spray openings directing the water inwardly, said conduit consisting in an inner portion supported from the tub, and an outer portion hinged thereto and adapted to be swung for vertical adjustment.

1,343,893. TIRE-TOOL. JULIUS BJORNLIE, Watertown, S. D., assignor to Bjornlie Manufacturing Company, Watertown, S. D., a Corporation of South Dakota. Filed Jan. 25, 1919. Serial No. 273,050. 3 Claims. (Cl. 157—6.)



1. A tire tool comprising a pair of substantially semicircular relatively fixed and movable jaws pivotally connected at one of their ends for opening and closing movement, an operating bar rigidly secured to the pivoted end of said fixed jaw and extending substantially tangentially therefrom, a lever intermediately fulcrumed to the operating bar and having its inner end offset toward the free end of the movable jaw, and a link pivotally connecting the movable jaw to the offset end of the lever.

1,343,894. AIR-CONDITIONING APPARATUS FOR DRYING-KILNS. HERVEY N. ANDREWS and ROY M. HOLMES, South Bend, Ind. Filed May 2, 1918. Serial No. 232,084. 4 Claims. (Cl. 236—44.)



1. In a drying kiln, means for adding to the humidity of the air, means for taking moisture from the air, and synchronized means including a control element governed by the degree of humidity in the air for controlling both of said means.

1,343,895. BEATER FOR REMOVING DUST AND DIRT FROM CARPETS OR THE LIKE. GEORGE H. BACKMIRE, Collegeville, Pa. Filed Mar. 13, 1919. Serial No. 282,426. 2 Claims. (Cl. 15—8.)

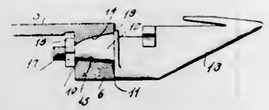


1. In a beater of the character described the combination of a handle member, a brace wire having a spring coiled therein and having its ends attached to the handle member, a series of coils of different diameters contacting at one point and normally standing at an angle to each other to produce a collapsible cup shaped beating member and a hand hold attached to the outer end of the handle member.

1,343,896. AGRICULTURAL IMPLEMENT. WILLIAM R. BARKER, Vauzant, Mo. Filed Feb. 4, 1919. Serial No. 274,984. 2 Claims. (Cl. 56—308.)

1. The combination with a sickle bar having a plurality of tapering openings extending therethrough, each opening having its center at one end positioned out of the horizontal plane of the center at the opposite end of the

opening; of a plurality of fingers having shanks extending into said openings and conforming to the contour thereof,

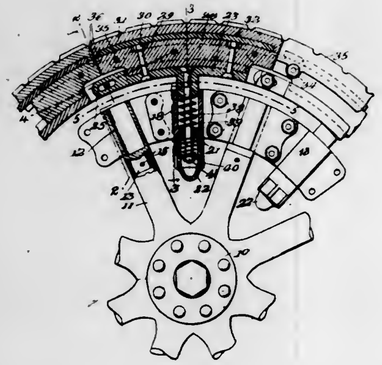


keys formed upon the sides of the shanks, the side walls of the openings having slots receiving said keys, and means to secure the guards to the sickle bar.

1,343,897. PROCESS FOR MAKING SODIUM SULFITE. EDWIN O. BARSTOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 25, 1918. Serial No. 241,862. 4 Claims. (Cl. 23—13.)

1. In a method of making sodium sulfite, the steps which consist in reacting between calcium sulfite and niter cake, whereby acid sodium sulfite and calcium sulfate are formed; and then reacting between such acid sulfite and milk of lime, substantially as described.

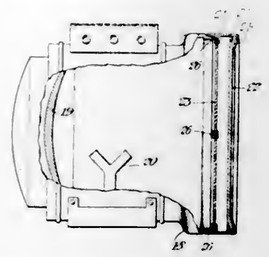
1,343,898. RESILIENT WHEEL. DAVID S. BEACH, Bridgeport, Conn. Filed May 4, 1918. Serial No. 232,528. 11 Claims. (Cl. 152—30.)



7. In a resilient wheel, a felly comprising a plurality of sections, each alternate section comprising a cylindrical portion having a pair of spaced ears leading from each side thereof, each cylindrical portion having a projection leading from its inner end, the remaining sections each having a central spring housing, and said spring housings each having a single ear leading from each side thereof and fitting between the spaced ears of the first mentioned sections, means passing through said ears for connecting the sections together, a hub having spokes connected to said projections, and a rim having extensions passing into said spring housings.

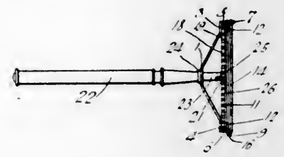
1,343,899. SIGNAL-LAMP. WILLIAM N. BEST, Brooklyn, N. Y., assignor of one-fourth to Cecilia Wupper, Brooklyn, N. Y. Filed Sept. 9, 1916. Serial No. 119,174. 2 Claims. (Cl. 240—23.)

1. A signal lamp comprising a casing, signaling means within the casing, including a source of light and a colored medium, and a shield arranged in front of the signaling means and consisting of a tough substantially non-breakable, uniformly translucent flexible sheet adapted to protect the signals from being injured by missiles to obliterate the color of the said medium when the light of the



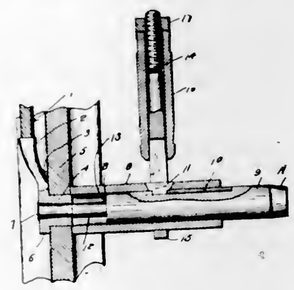
signaling means is extinguished whereby the unlighted signal will be prevented from showing color when exposed to exterior light.

1,343,900. RAZOR. WILLIAM HARRY BRASIER, Corpus Christi, Tex. Filed June 30, 1919. Serial No. 307,652. 2 Claims. (Cl. 30—12.)



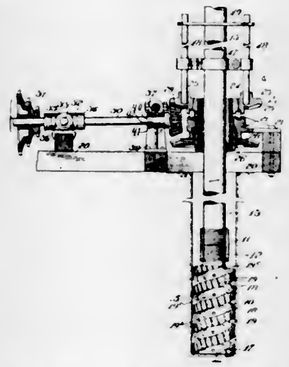
1. A safety razor comprising a trough-shaped base provided at its edges with supports having overhanging flanges; a guard between the supports and the flanges; a holder comprising coöperating superposed parts connected at one end and having free ends; means for pivoting the holder to one support at the place of connection between the parts of the holder; a detachable connection between the free ends of the parts of the holder and the other support; and a handle movably mounted in the base and engaging the guard.

1,343,901. RAIL-BOND PUNCH. WILLIAM C. BRENNER, Tumwater, Wash., assignor of one-half to Robert Clayton, Olympia, Wash. Filed Nov. 29, 1919. Serial No. 286,199. 4 Claims. (Cl. 29—86.1.)



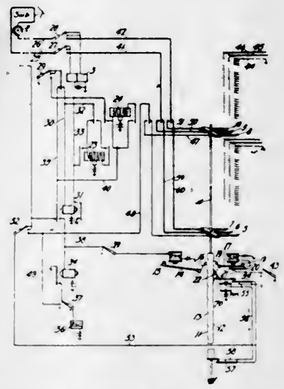
1. A punch comprising a body, a plunger slidable in said body and having a slot, a key carried by said body and disposed within said slot for limiting the movement of the plunger, a reduced extension formed upon one end of said plunger and adapted to engage the wedge of the terminal of a bond, said extension adapted to define an angular shoulder for engagement with one end of the body of the terminal of the bond, and a handle for said body.

1,343,902. WELL-SINKING APPARATUS. MATTHEW T. CHAPMAN, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed June 10, 1918. Serial No. 239,295. 19 Claims. (Cl. 255—69.)



1. A rotary well-boring drill comprising a flight having means in its edge for receiving and retaining small hard particles so that they will project from such edge and act against and wear away the wall of the hole being bored.

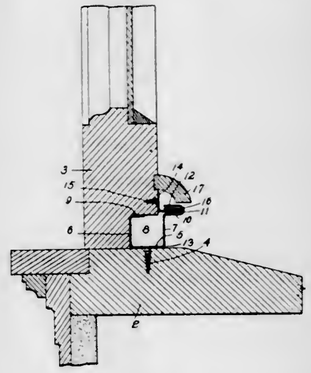
1,343,903. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1917. Serial No. 191,356. 8 Claims. (Cl. 179—18.)



1. In a telephone system, a switch having a plurality of sets of brushes, a line, a plurality of impulse circuits, a relay for sending impulses simultaneously over each of said circuits, means for actuating said relay, means operated by the impulses sent over one of said circuits for actuating said brushes, and means operated by the impulses sent over the other of said circuits for successively establishing and disestablishing a connection between said line and each of said sets of brushes.

1,343,904. WEATHER-STRIP. EDWARD J. CRAIG, West View, Pa., assignor to Hubert Moore, Sewickley, Pa. Filed Feb. 24, 1919. Serial No. 278,622. 7 Claims. (Cl. 20—69.)

1. A weather strip member consisting of a central bottom portion, a laterally extending wall portion at one side thereof, a second laterally extending wall portion at the opposite side of the bottom portion and projecting in the same direction as the first wall portion, a flange extending from the first wall portion toward the second wall portion, and a receiving groove carried by the second wall portion, the opening of said groove being disposed toward the first wall portion.



2. A weather strip member consisting of a central bottom portion, a laterally extending wall portion at one side thereof, a second laterally extending wall portion at the opposite side of the bottom portion and projecting in the same direction as the first wall portion, a receiving groove carried by the second wall portion and positioned to the opposite side thereof from the first wall portion, the opening of said groove being disposed toward said first wall portion.

3. A weather strip member consisting of a central bottom portion, a laterally extending wall portion at one side thereof, a second laterally extending wall portion at the opposite side of the bottom portion and projecting in the same direction as the first wall portion, a flange extending from the first wall portion toward the second wall portion, and a receiving groove carried by the second wall portion, the opening of said groove being disposed toward the first wall portion.

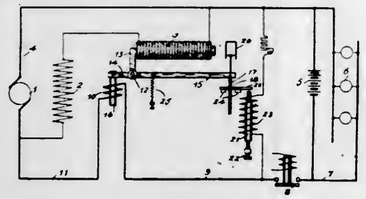
4. A weather strip member consisting of a central bottom portion, a laterally extending wall portion at one side thereof, said wall portion being flexible and resilient and forming an abutment, a second laterally extending wall portion at the opposite side of the bottom portion and projecting in the same direction as the first wall portion, and a receiving groove carried by the second wall portion.

5. The combination with a window sash, of a weather strip comprising a stationary member consisting of a central bottom portion, a laterally extending wall portion at one side of the bottom portion adapted to form an abutment and provide a tight engagement with said sash, a second laterally extending wall portion at the opposite side of the bottom portion and projecting in the same direction as the first wall portion, a receiving groove carried by the second wall portion, the opening of said groove being disposed toward the first wall portion, and a coöperating strip member including a tongue carried by the sash and disposed in said groove when the first wall portion is engaged by the sash to provide a double seal between the latter and the weather strip.

1,343,905. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Aug. 17, 1916. Serial No. 115,419. 11 Claims. (Cl. 171—229.)

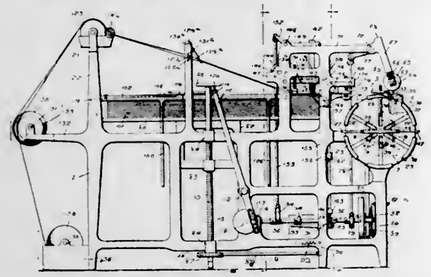
5. The combination with a generator of a regulating element affecting the operation thereof, lever mechanism for affecting said element, current responsive means connected with said lever mechanism, clutch mechanism adapted to engage said lever mechanism at a point of

functionally greater leverage than the current responsive means and voltage responsive means coöperating with said



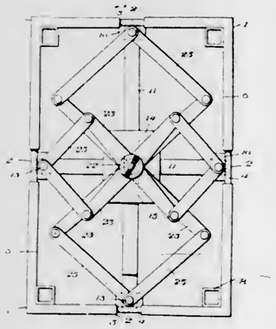
clutch mechanism to affect the operation of the generator and to substantially usurp the entire regulation of the generator when its voltage reaches a predetermined value.

1,343,906. BOX-MAKING MACHINE. MOSES B. DISKIN, New York, N. Y. Filed May 9, 1918. Serial No. 233,533. 10 Claims. (Cl. 93—40.)



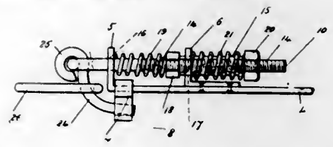
4. In a box making machine, means for feeding blanks one by one, means for delivering a sheet to press against one side of the blank as it is fed to be pasted thereto with one edge of the sheet projecting beyond one edge of the blank, means for folding said projecting edge of the sheet across and behind said edge of the blank as it is fed, and a pair of coaxial disks arranged to overlap opposite sides of said edge portion of the blank after such folding to press the sheet against the opposite sides of the blank at said edge thereof.

1,343,907. BOX-MANDREL. MOSES B. DISKIN, New York, N. Y. Filed Jan. 11, 1919. Serial No. 270,699. 5 Claims. (Cl. 93—59.)



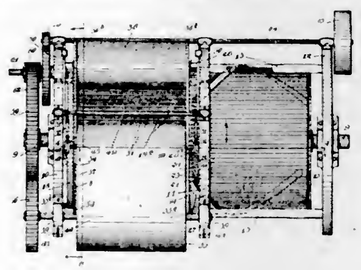
4. A mandrel having pairs of opposite plates, corner pieces slidably connecting them, a supporting member located centrally within the mandrel, pairs of overlapping bars secured to said plates, and slidable in said member in crossed relation, and a toggle device between each pair of plates and said member for constraining said plates for simultaneous movement toward and away from said member, and means for clamping some of said parts to said member to hold said plates in position.

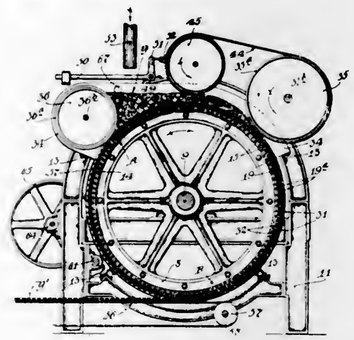
1,343,908. DRAFT ATTACHMENT. ARTHUR E. EDSTROM, Elbow Lake, Minn. Filed Apr. 1, 1920. Serial No. 370,549. 2 Claims. (Cl. 213—67.)



1. In a draft attachment, a draft bar having two lugs arranged one behind the other, a clip provided with an eye and slidable on the said bar between its two lugs, a screwthreaded rod slidable in holes in the said lugs, a releasing pin pivoted to the front end portion of the said rod and engaging with the eye of the clip, a traction device engaging with the middle part of the releasing pin, springs encircling the said rod with their front ends bearing against the respective lugs, and nuts screwed on the rod and adapted to adjust the strength of the springs.

1,343,909. MACHINE FOR MOLDING LATH-BOARDS. GEORGE H. ELLIS, St. Paul, Minn. Filed July 28, 1919. Serial No. 313,884. 13 Claims. (Cl. 25—42.)

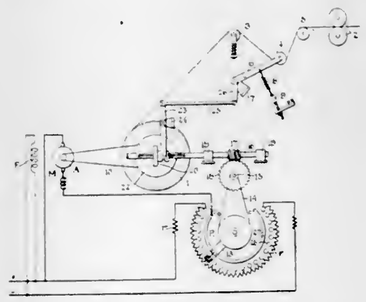




4. A molding device having a mold surface including core bars that are slidable to and from working positions and in cross section having a form to produce plaster interlocking grooves in the molded sheet, said mold surface also having perforate surface-forming sections located between the core bars below the groove-forming portions thereof.

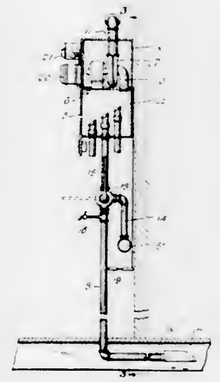
12. In a machine of the kind described, the combination with a rotary drum having a surrounding mold surface including endwise movable groove-forming core bars carried by said drum, means for applying moldable material to said mold surface at the upper portion of said drum, and means for delivering the molded material from the bottom of said drum with its grooved surface uppermost.

1,343,910. TENSION DEVICE. CLARENCE T. EVANS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 28, 1914. Serial No. 841,613. 18 Claims. (Cl. 242—75.)



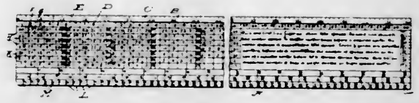
1. In a tension mechanism for printing press rolls and the like, in combination, a mechanism having a positive power connection with the roll and operative through said connection for driving and braking the roll selectively and a governor operable in accordance with variations in tension of the material delivered by the controlled roll for varying the action of said mechanism.

1,343,911. MARINE FIRE-INDICATING SYSTEM. WALTER H. FREYGANG, Weehawken, WALTER KIDDE, Montclair, and BARZILLAI G. WORTH, West Orange, N. J., assignors to Walter Kidde & Company, a Corporation of New Jersey. Filed July 2, 1919. Serial No. 308,272. 4 Claims. (Cl. 169—11.)



1. In a marine fire indicating system, the combination of a series of indicator pipes leading to the several compartments of a vessel, an observation cabinet to which the pipes extend, whereby the open ends of said pipes may be observed, a fan for drawing air through the pipes into said cabinet, and a discharge from said fan extending to and terminating in one of the habitable quarters of the vessel, substantially as set forth.

1,343,912. CENTERING SCALE OR RULE FOR CENTERING TYPEWRITTEN OR OTHER WORK. RUFUS B. FUNK, Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 5, 1916. Serial No. 76,440. 11 Claims. (Cl. 33—111.)



1. A rule having scale indications along one edge corresponding to the letter space scale of the typewriter, a second scale adjacent to the first-named scale divided into half the number of indications of the first scale, a series of centering indications disposed below the scales and having a definite centering value with the said letter space scale to indicate the point on the typewriter scale at which the work should be commenced for centering at any desired point and a column of desired center indications disposed transversely with reference to said centering indications.

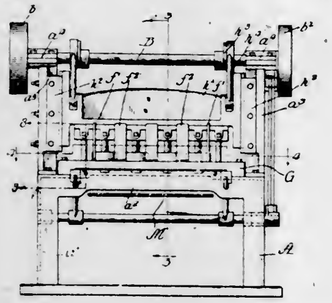
2. A rule having scale indications along one edge corresponding to the letter space scale of a typewriter, a second scale adjacent to the first named scale divided into half the number of indications of the first scale and both numbered from left to right these numbers being used in connection with the first named scale indicating the center of the matter measured, and below these scales a scale consisting of a series of rows of indications spaced the same as the second-named scale but numbered from right to left, said numbers used in connection with the first-named scale indicating the point at which writing should be commenced, a fourth scale consisting of vertical columns of numbers extending transversely to the third named scale, said numbers representing elective points for centering matter to be typewritten and on which the numbers of the third named scale are based and to which they apply.

3. A rule for typewriters having a letter scale on its top edge, a scale below the first named scale and of the same length comprising one half the indications of the first named scale and numbered from left to right, a scale below the second named scale comprising several scales similarly spaced to the second named scale but numbered from right to left, a fourth scale consisting of vertical columns of figures extending transversely to the third named scale at different points on the rule, and a single, double, and triple vertical typewritten space measuring scale at the lower edge of the rule.

4. A centering scale comprising a series of character-spacing indications, spaced in accordance with the spacing of consecutive characters as written on a typewriter and a series of centering indications, the distance between any two successive centering indications being twice that between two successive character-spacing indications, the indications of the two series being arranged in parallel with the successive centering indications in register with alternate character-spacing indications, and the indications of both series being numbered consecutively in the same direction of increasing order of magnitude, beginning at a common origin.

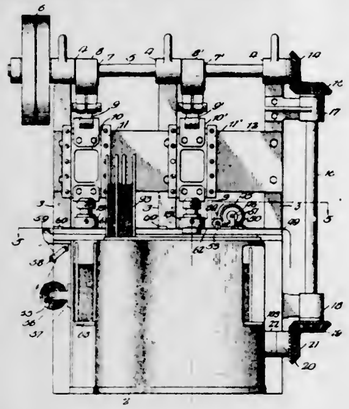
5. A scale for locating typewritten matter on a work-sheet, said scale comprising a series of character-spacing indications, spaced in accordance with the spacing of consecutive characters as written by a typewriter, and a plurality of series of work-centering indications, the indications of the various series being arranged in parallel, the distance between any two successive work-centering indications being twice that between two successive character-spacing indications, said character-spacing indications being numbered consecutively from an origin at one end and said work-centering indications being numbered consecutively from the opposite end, each series beginning with a different number, so that corresponding work-centering indications of different series will be of different denomination.

1,343,913. CAN-END-LINING MACHINE. CHARLES W. GRAHAM, Huntington, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 1, 1916. Serial No. 81,315. 7 Claims. (Cl. 113—80.)



1. In a machine for applying can end liners to the flanges of shouldered can ends, for the production of interfolded hermetic seams with flanged can bodies, the combination of a stack holder for holding a stack of superimposed previously cut ring liners, a combined feeding and supporting device having a through aperture for selecting liners singly from said stack and carrying them, while supported, to an assembling station, and an assembling mechanism at the assembling station having means for forcing the selected liners through said aperture and assembling said liners with can ends.

1,343,914. METHOD OF MANUFACTURING GASKET-LINED CAN ENDS AND APPARATUS THEREFOR. CHARLES W. GRAHAM, Allendale, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 22, 1917. Serial No. 176,269. 22 Claims. (Cl. 113—80.)



1. In a machine for cutting can end liners from thin, flat material and assembling the same with shouldered and flanged can ends, the combination of cutting members, means for advancing liner forming material between said cutting members, mechanism for actuating said cutting members to cut a gasket liner from said material and apply the same directly on to the flange of the can ends at the cutting station and means for curling the edges of said can ends simultaneously at all points of their circumference to loosely inclose the applied liners.

22. The method of manufacturing a gasket lined can end, which consists in assembling a gasket ring liner with a can end having an upstanding flange by pressure in the direction of the axis of the can end and liner, and thereafter inturning the extreme edge of the upstanding flange of the can end by pressure also in said axial direction and to such limited extent as to leave the ring liner loose and movable within said inturned flange, and thereby confining the liner loosely within the flange of the can end.

1,343,915. ART OF TREATING ORANGES. MAX HENIUS, Chicago, Ill., assignor to Felix Mendelsohn, Chicago, Ill. Filed May 15, 1918. Serial No. 234,664. 5 Claims. (Cl. 99—11.)

1. A method of treating oranges which consists in expressing the juice, adding thereto an available form of sulfurous acid, in the proportion of about 80 parts per million based on the SO_2 content and at once pasteurizing at a temperature of between 50° and 60° C.

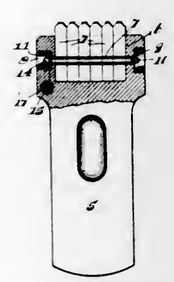
5. The herein described product comprising sterile unclarified orange juice containing approximately 15 parts per million free SO_2 and approximately 45 parts per million combined SO_2.

1,343,916. SEAT STRUCTURE. CHARLES A. HOEHN, Pittsburgh, Pa. Filed June 28, 1919. Serial No. 307,267. 4 Claims. (Cl. 208—138.)



1. In a device of the class described, the combination of a plurality of angle plates, each angle plate provided with a curved vertical body, a vertically-slidable back secured against the rear face of said curved vertical bodies throughout their heights, and means for securing said back in an adjusted position upon said vertical bodies.

1,343,917. TYPE-HOLDER. GUSTAV HOFFMAN, Chicago, Ill. Filed Nov. 24, 1919. Serial No. 340,191. 5 Claims. (Cl. 101—381.)

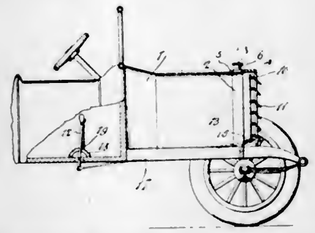


1. A type holder comprising a body, having a type receiving socket therein and a bore traversing one side of said socket; a locking pin longitudinally insertible in and removable from said bore; type insertible in said socket and notched to engage said pin; and a spring-held latch engaging said pin to prevent removal thereof, substantially as described.

1,343,918. MANUFACTURE OF BROMATES. COULTER W. JONES, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 25, 1918. Serial No. 241,747. 9 Claims. (Cl. 23—13.)

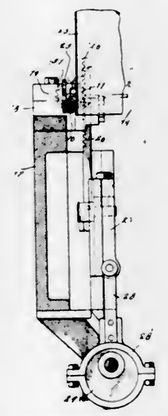
1. In a method of recovering a soluble bromate from admixture with other salts, the steps which consist in converting such bromate into relatively insoluble barium bromate; and then separating out such barium bromate, substantially as described.

1,343,919. AUTOMOBILE-VENTILATOR. FRANK L. KELZER, Chaska, Minn. Filed Mar. 17, 1916. Serial No. 84,858. 1 Claim. (Cl. 257—132.)



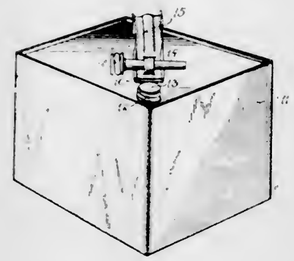
An automobile ventilator comprising a frame including top and side members adapted to engage the sides and top of a radiator and project beyond the same, right angle flanges formed on said members and overlying the front of the radiator in spaced relation thereto and cooperating with each other to define an opening substantially the size of the opening of the radiator, a bracket secured to the top member and receiving the filling spout of the radiator, transversely extending shutters journaled to the edges of the side flanges, a vertical rod connected to said shutters and located in rear thereof, a transversely extending crank shaft journaled to the lower ends of the side members and connected to the lower end of said rod, operating means connected to said shaft, and horizontally disposed ears formed on the lower ends of the side members and adapted to receive the fastening elements of the radiator which secure it to the frame of the automobile.

1,343,920. DEVICE FOR ATTACHING BAILS TO CONTAINER-BODIES. WILLIAM J. KENNY, Cicero, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 18, 1917. Serial No. 187,009. 4 Claims. (Cl. 140—93.)



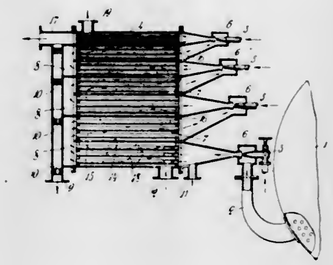
1. In a machine for assembling bails with containers having bail ears, the combination of a rotary member having a recess for holding the leg of the bail and walls for engaging on opposite sides of the loop of the bail, said rotary member having an axis in substantial line with which the leg of the bail is held by said recess, and means for turning said rotary member to twist the loop relative to the leg and bring the end of the bail while within the bail ear from a position substantially parallel with the body of the bail to a position substantially at right angles to the body of the bail.

1,343,921. NOZZLE-CAN. LOUIS KLINGMAN, Cleveland, Ohio, assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 13, 1917. Serial No. 161,735. 2 Claims. (Cl. 221—23.)



1. The combination of a can having a pouring opening, and a pouring nozzle, said can having a sheet metal handle formed at one side of its graspable portion with a transverse nozzle-holder in which the nozzle extends, when in place therein, transversely to the handle remote from the graspable portion of the latter.

1,343,922. AIR-PUMP FOR EVACUATING AIR FROM CONDENSERS, REFRIGERATING PLANTS, AND THE LIKE. BIRGER LJUNGSTRÖM, Stockholm, and FREDRIK LJUNGSTRÖM, Finspong, Sweden, assignors to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Filed Sept. 14, 1917. Serial No. 191,392. 1 Claim. (Cl. 230—13.)



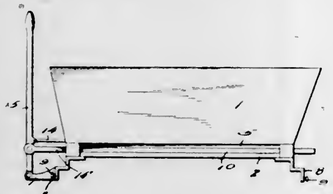
An air pump for evacuating air from condensers and the like, comprising a plurality of steam injectors and a corresponding series of surface condensers arranged with one surface condenser behind each injector to receive and condense the steam from the latter, the said pump being provided with a series of chambers communicating respectively with said surface condensers to receive the water of condensation therefrom, said chambers being directly connected with each other by calibrated channels and arranged one above another, so that the water of condensation may flow down from chamber to chamber through the series.

1,343,923. SPIRAL-CUT GEAR-WHEEL. BIRGER LJUNGSTRÖM, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Ångturbin, Lidingö-Brevik, Sweden. Filed Mar. 7, 1919. Serial No. 281,280. 1 Claim. (Cl. 74—441.)



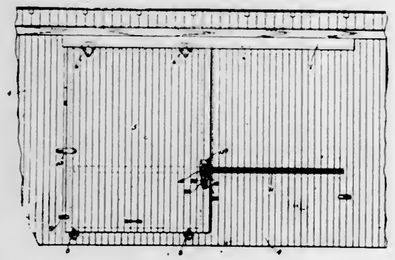
In a gearing system, the combination of a pair of gears having spiral teeth adapted to mesh with each other in one operative position, and a third gear having cross-cut teeth adapted to mesh with the spiral teeth of said pair of gears in another operative position.

1,343,924. NUT-DEPOSITOR FOR CONFECTIONERY-MACHINES. WILLIAM ELLWOOD MCCORKLE, Oak Station, Pa. Filed Aug. 8, 1917. Serial No. 185,164. 5 Claims. (Cl. 221—104.)



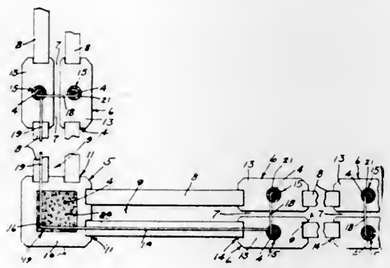
1. A device of the class described comprising a container having superposed spaced apertured bottoms, the apertures in said bottoms being disposed out of register with each other, a slide mounted to reciprocate between said bottoms and having apertures positioned to register with the apertures in one bottom of the container when at the limit of its extreme movement in one direction and with those of the other bottom when at the limit of its movement in the other direction, and a skeleton frame mounted to slide over the inner bottom of said container and having serpentine strips arranged longitudinally of said frame.

1,343,925. CAR DOOR. WILLIAM H. MCGANN, Minneapolis, Minn. Filed Sept. 2, 1919. Serial No. 320,988. 5 Claims. (Cl. 268—6.)



1. The combination with a car body having a sliding door, of a rack secured to said car body, a pinion journaled on the car door and meshing with said rack, said pinion having a stem with a perforated head, a lock piece mounted on the car door and engageable with the perforated head of said stem to lock said pinion against rotation in different adjustments of the door.

1,343,926. REINFORCED-CONCRETE WALL STRUCTURE. VIGGO J. MADSEN, Fargo, N. D. Filed Sept. 22, 1919. Serial No. 325,292. 2 Claims. (Cl. 72—30.)



1. A wall structure including corner and laterally spaced pairs of intermediate piers, each of said piers comprising superimposed concrete blocks, said intermediate piers being laterally spaced to afford horizontal ventilating passageways therebetween, said corner pier having in each of its wall faces two laterally spaced grooves, each intermediate pier having in each of its wall faces a single groove, and pre-formed concrete slabs positioned in said grooves between the piers.

1,343,927. MANUFACTURE OF PURIFYING MATERIALS. CORNELIUS MASSATSCH, Berlin-Templehof, Germany, assignor to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 18, 1914. Serial No. 857,373. 16 Claims. (Cl. 23—13.)

1. The process of making a granular water-purifying substance which comprises washing a hydrated material comprising coprecipitated alumina, silica and alkali till a portion but not all of the alkali is removed and indurating by drying at low temperatures.

1,343,928. LIFE-PRESERVER. WALTER J. MAY, Chicago, Ill. Filed Jan. 28, 1918. Serial No. 214,137. 1 Claim. (Cl. 9—17.)

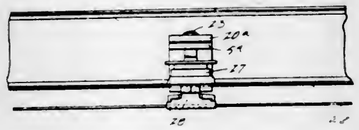


A device of the class described comprising a pair of spaced hollow bodies, each having an opening therein: a closure for said openings; an elongated flexible element secured to said closures and connecting said bodies; and a pair of arm loops mounted on said element intermediate its ends, substantially as described.

1,343,929. HYDRAULIC INGREDIENT AND PROCESS OF MAKING SAME. FERDINAND MORITZ MEYER, Saarbrucken, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 3, 1914. Serial No. 810,198. Renewed Oct. 22, 1919. Serial No. 332,440½. 6 Claims. (Cl. 106—24.)

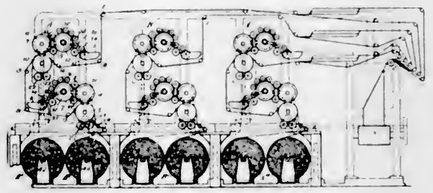
1. A process for making a hardening material for lime mortar consisting in burning a mixture containing clay and about twenty-five to fifty per cent. of calcium carbonate and a small proportion of a fluxing agent at a temperature below the clinkering point, but high enough to drive off most of the CO_2 of the carbonate, to produce a product which reacts slowly with water.

1,343,930. ATTACHING DEVICE FOR TROLLEY-HANGERS. JOSEPH A. NEELY, McRoberts, Ky. Filed Aug. 22, 1917. Serial No. 187,685. 1 Claim. (Cl. 248—32.)



An attaching device comprising a pair of clamping plates extending parallel with each other and each including vertical portions and one plate having a pair of horizontal portions and the other plate having a single horizontal portion, one horizontal portion of one of said plates having a slot and its other horizontal portion being bent upon itself to engage a face of a supporting beam opposite from that engaged by the last mentioned horizontal portion, the horizontal portion of the other plate having an opening in registration with the slot and having the end of its vertical portion bent on an incline to engage the first named face of the beam, serrations formed on the opposing faces of the horizontal portions of said plates, and a bolt extending through the opening and slot and adapted to be threaded into a hanger.

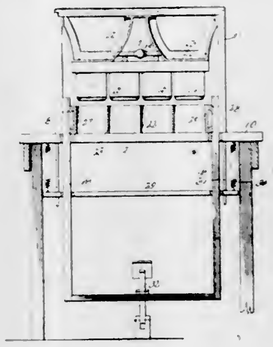
1,343,931. WEB-PRINTING MACHINE. OTTO L. RAABE, Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1917. Serial No. 143,584. 9 Claims. (Cl. 270—5.)



1. In a printing machine, the combination with a plurality of printing couples, the printing elements of which are superposed, of inking mechanism for each couple, the printing elements of each couple being arranged on the outside of the mechanism, a source of web supply, and means for guiding the web through the couples from the clear side around the inking mechanism.

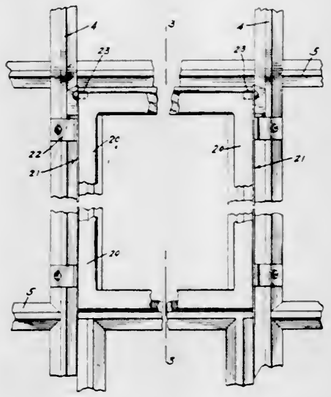
1,343,932. ICE-CREAM CUTTER. CHARLES S. RAIA, Garfield, N. J. Filed Feb. 11, 1920. Serial No. 357,804. 2 Claims. (Cl. 107—21.)

1. A cutting machine comprising a table, a rectangular frame arranged thereover for vertical movement, a plurality of blades carried within the frame arranged at right angles and defining compartments therebetween, a heater comprising a plurality of rectangular members designed



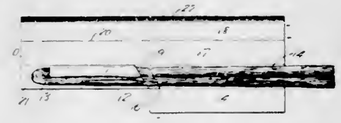
to enter said compartments, springs for urging the frame upward, and a positive means for moving the same downward.

1,343,933. SCREEN FOR SWINGING SASH. FRANK REESE, Minneapolis, Minn. Filed Aug. 11, 1919. Serial No. 316,603. 6 Claims. (Cl. 156—14.)



5. The combination with a frame work and a relatively fixed lower screen, of a swinging window sash, of an inside pivot structure having means securing the same to intermediate portion of said window sash including a recessed cross bar and a filler strip extending from said bar to the class of the window sash, said screen having a projecting flange engaging the recess of said cross bar approximately at the axis of oscillation of said pivot structure.

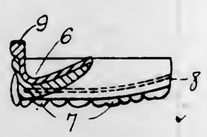
1,343,934. THREAD PACKAGE OR HOLDER. REGINALD REYNOLDS, Riverside, Conn. Filed Mar. 1, 1920. Serial No. 362,237. 3 Claims. (Cl. 206—64.)



1. A thread package comprising a wrapper having a transverse slot in one longitudinal edge intermediate its

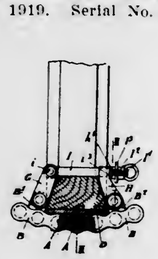
ends for dividing said edge into an extension member and a cover flap, a bundle of threads looped over said extension member at one end and extending to the other end past the cover flap, said extension member when folded once upon said wrapper inclosing half of the threads which are in engagement with the extension member, said cover flap when folded once upon said wrapper inclosing all the threads which are in engagement with the flap, said extension member and cover flap being folded a second time onto said wrapper for inclosing the threads not covered by the extension member, said folded parts being folded again on said wrapper and secured thereto.

1,343,935. METHOD AND DEVICE FOR PRODUCING PLATES FOR ARTIFICIAL TEETH. MERRITT RICE, Colchester, Ill. Filed Oct. 9, 1919. Serial No. 329,581. 6 Claims. (Cl. 32—4.)



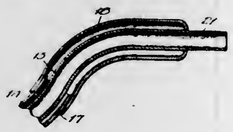
1. The method of obtaining impressions, in the manufacture of artificial teeth plates, consisting of placing a plastic coated die of hardened wax provided with a set of teeth, upon the gum and arranging the same to coincide with the teeth on the opposite gum; the impression being obtained in the plastic coating upon firmly biting the sets of teeth together.

1,343,936. REMOVABLE TIRE FOR THE WHEELS OF GUN-CARRIAGES AND OTHER VEHICLES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,498. 5 Claims. (Cl. 301—40.)



1. An auxiliary wheel-tread comprising a plurality of longitudinally disposed ratans plaited with transverse osiers, and means for securing the tread on the periphery of the wheel.

1,343,937. WATER-HEATING DEVICE. EDWARD A. SCHREIBER, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed May 26, 1919. Serial No. 299,956. 2 Claims. (Cl. 122—36.)



2. In a water heater, the combination of a casing having an opening through the wall thereof, a duplex coil in said casing comprising inner and outer helical pipe coils, and a fitting adapted to be attached to the end of the outer pipe coil and to pass through said opening in the casing, said fitting being curved reversely to the curvature of the portion of the coil to which it is attached and to the pitch of said portion of the coil and having a bore of substantially uniform cross sectional area throughout its length, the outer end of said inner pipe coil being bent to correspond to the curvatures of said fitting and adapted to lie concentrically within the bore thereof, whereby there is provided within the bore of said fitting around said inner pipe coil an annular space of substantially uniform cross sectional area through which the heating medium may flow unobstructedly.

1,343,938. METHOD OF INCREASING THE POWER OF GAS-ENGINES. GEORGE F. SHAVER, New York, N. Y., assignor to The Hydragas Corporation, a Corporation of New York. Filed Nov. 9, 1916. Serial No. 130,327. Renewed Aug. 13, 1919. Serial No. 317,348. 5 Claims. (Cl. 123—1.)

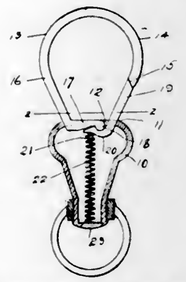


1. The method for increasing the power of gas engines which consists in heating a relatively large amount of water and a relatively small amount of an additional substance adapted to give off an oxidizing gas, and introducing said gas and water vapor thus formed into the explosion chamber of the engine.

2. The method for increasing the power of gas engines which consists in mixing with water a compound having a larger percentage of oxygen than that of water, heating such mixture, and introducing the gas and vapor thus formed into the explosion chamber of the engine.

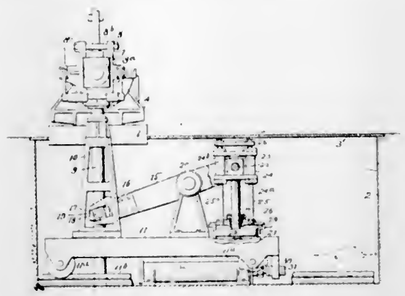
3. The method for increasing the power of gas engines which consists in heating a solution containing a relatively large amount of water and a relatively small amount of a substance adapted to give off an oxidizing gas, and introducing said gas and water vapor thus formed into the explosion chamber of the engine.

1,343,939. CATCH DEVICE. EDWIN F. M. SPEIDEL, Edgewood, R. I., assignor to Automatic Gold Chain Company, a Firm comprising Edwin F. M. Speidel and Albert R. Speidel, Edgewood, R. I., Copartners doing business at Providence, R. I. Filed Apr. 3, 1919. Serial No. 287,286. 1 Claim. (Cl. 24—240.)



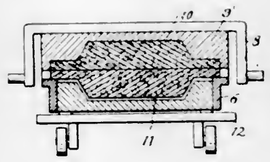
A catch device comprising a hollow body member having an end wall provided with a transverse slot therethrough, a hook member having a shank portion with one end extending at substantially a right angle to said shank and secured in said slot, and an independent hook-closing tongue having its inner end projecting through said slot and extending at substantially a right angle to said tongue beneath said shank-end to engage and swing upon its under side, the side walls of said slot serving as a lateral guide for said tongue, and a spring for holding said tongue in operative position against the under side of said arm.

1,343,940. MOLDING-MACHINE. JOHN T. STONEY, Cleveland, Ohio. Filed Feb. 11, 1914. Serial No. 818,018. 20 Claims. (Cl. 22—32.)



1. In a molding machine, the combination with a platform adapted to be raised and lowered, of a roll over molding table unit adapted to cooperate with the said platform, said roll over molding table unit comprising a roll over molding table, trunnions upon which the table is supported, and means for raising and lowering the molding table, and means for removing the molding table and its mechanism bodily as a unit relative to and away from the said platform to leave a free, unobstructed space above the platform.

1,343,941. METHOD OF MAKING MOLDS. JOHN T. STONEY, Cleveland, Ohio. Filed Mar. 1, 1919. Serial No. 280,074. 3 Claims. (Cl. 22—198.)



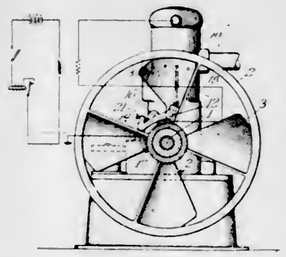
1. The method of making a mold which comprises preparing the drag part of a mold, preparing a green sand sectional part of the core in a core box, placing a previously baked sand complementary section of a core in conjunction with the green sand part of the core while the green sand core is still in its box, placing the drag of the mold over the baked sand portion of the core, turning over the drag and core box together, so that the green sand part of the core is resting upon the baked sand portion of the core, removing the core box, preparing the cope part of the mold and placing the same upon the drag part of the mold.

1,343,942. SNAP-FASTENER FOR SHOES. SEIZI TADAKUMA, Los Angeles, Calif. Filed Feb. 10, 1920. Serial No. 357,643. 3 Claims. (Cl. 24—203.)

1. A shoe securing member consisting of a hook disposed on the underside of a shoe flap, prongs on the hook piercing the flap, a shield on the opposite side of the flap having a perforated bottom, said prongs projecting through the perforations and being clenched to said shield bottom, and corresponding loop fasteners on the opposite flap of the shoe.

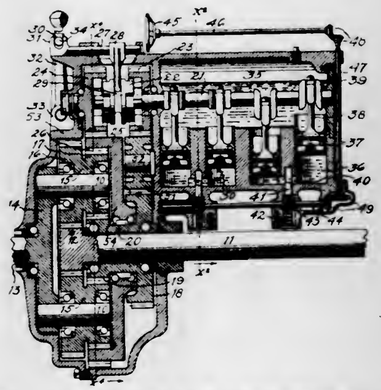


1,343,943. SPARK CONTROL AND GOVERNOR FOR INTERNAL-COMBUSTION ENGINES. HERBERT L. THOMPSON, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a Corporation of Iowa. Filed May 10, 1916. Serial No. 96,518. 13 Claims. (Cl. 123—117.)



1. In an internal combustion engine, a stationary commutator, a rotating brush revolving about said commutator, and centrifugally operated means to retard or advance the brush according to the speed of the engine, whereby the spark is controlled automatically.

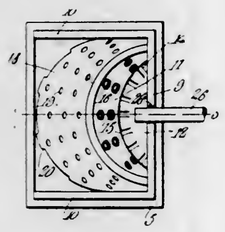
1,343,944. SPEED-CHANGING-GEAR SYSTEM. JICHIO TOMODA, Hynes, Calif. Filed Mar. 5, 1919. Serial No. 280,744. 10 Claims. (Cl. 74—34.)



1. The combination with an epicyclic gearset, of clutch pinions constantly in mesh with the gearset, a clutch

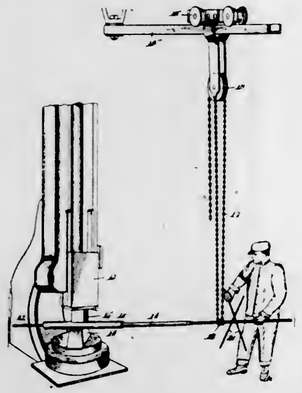
shaft, a clutch member slidable thereon and adapted to engage with the clutch pinions, means for shifting the clutch to its operative positions, and hydraulic means for arresting rotation of the clutch shaft.

1,343,945. LIQUID-FUEL BURNER. WILLIAM A. TUCKER, Austin, Tex. Filed Dec. 31, 1919. Serial No. 348,661. 5 Claims. (Cl. 158—91.)



1. A liquid fuel burner comprising a pan, a wall rising from one side of the pan, a perforated and inclined plate rising from the bottom of the pan, and extending outwardly from the wall in a curve, and formed at its upper end with a shelf extending to said wall, a fuel pipe having its outlet end located above the shelf, and a perforated plate rising from the pan, and surrounding the first mentioned plate in spaced relation therewith.

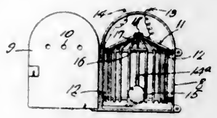
1,343,946. APPARATUS FOR FORMING METALLIC TUBES. EMILL WARNER, Chicago, Ill. Original application filed June 26, 1917, Serial No. 176,956. Divided and this application filed Mar. 21, 1918. Serial No. 223,799. 3 Claims. (Cl. 78—14.)



1. Apparatus for forming a metallic tube from a solid piece of metal comprising a mandrel for holding the work; means for pounding the sides of the work on said mandrel; and means for adjustably supporting said mandrel, comprising a flexible supporting element having a loop at its lower end, there being an annular groove surrounding said mandrel for engagement with said loop, substantially as described.

1,343,947. FLOAT-OPERATED CIRCUIT-CLOSER. GEORGE W. WASHINGTON, Columbus, Miss. Filed Aug. 1, 1916. Serial No. 112,543. 1 Claim. (Cl. 200—84.)

A circuit closer comprising a casing, a cage which constitutes one contact, mounted in said casing but insulated therefrom, and a metallic pendulum constituting the other contact, supported from the top of the cage and insulated therefrom, said pendulum being free to swing



into engagement with the cage when the cage is inclined, and a float connected to said pendulum for raising the pendulum into engagement with the cage to establish a circuit.

1,343,948. PROCESS FOR PRODUCING CEMENT OF LIQUID SLAGS IN ELECTRIC FURNACES. KARL GUSTAF WENNERSTRÖM, Bartange, Sweden. Filed Mar. 29, 1920. Serial No. 369,813. 2 Claims. (Cl. 204—31.)

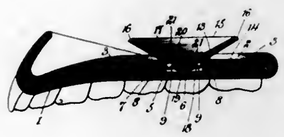
1. The herein-described process for the production of cement from liquid slag in an electric furnace, which consists in delivering lime or limestone in broken pieces unmixed with slag upon the surface of the bath of liquid slag, and in passing an electric current through the slag bath to heat the same to an extent sufficient to melt down the lime from the surface of the slag bath and thereby cause it to combine with the slag to form the cement.

1,343,949. VACUUM-CUP-FASTENING MEANS FOR DENTAL SUCTION-PLATES. GEORGE S. WHITAKER, Gloversville, N. Y. Filed Aug. 19, 1919. Serial No. 318,519. 2 Claims. (Cl. 32—4.)



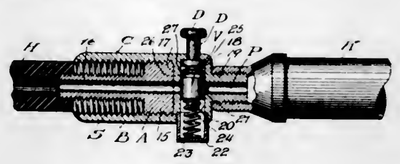
1. A dental plate provided with a suction cavity and a separate vacuum cup to coact therewith, and a two-part fastening device for securing the cup to the dental plate within the suction cavity, comprising a screw stem with a headed end wholly embedded and anchored in the basic portion of the vacuum cup and protected thereby from contact with the tissues of the mouth of the user, and a screw socket embedded and anchored in the dental plate at the bottom of the suction cavity.

1,343,950. DENTAL SUCTION-PLATE. GEORGE S. WHITAKER, Gloversville, N. Y. Filed Aug. 19, 1919. Serial No. 318,520. 3 Claims. (Cl. 32—4.)



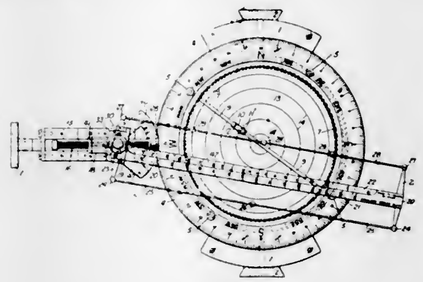
1. A dental plate provided with a suction cavity and a separate, readily removable vacuum cup to coact therewith, and a two-part fastening device for securing the cup to the plate with one part of the fastening device vulcanized in the plate at the suction cavity and the other part vulcanized in the vacuum cup and protected by the material of the latter from metallic contact of the tissues of the mouth.

1,343,951. VALVE FOR PNEUMATIC TOOLS. WILLIAM SIDNEY WHYTE, Redford, Ind. Filed July 19, 1919. Serial No. 311,964. 6 Claims. (Cl. 251—137.)



1. In combination, a body having a supply passage formed therein and a valve slidable in the body and controlling such passage, said valve comprising a body portion formed with a pair of annular channels.

1,343,952. INSTRUMENT FOR AERIAL NAVIGATION. HARRY EGERTON WIMPERIS, Goring-on-Thames, England. Filed April 15, 1919. Serial No. 290,220. 19 Claims. (Cl. 33—46.)



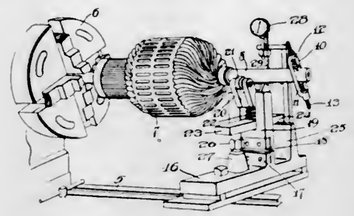
1. In a navigational instrument for use on aircraft, the combination of a frame, a bearing ring rotatable therein, a disk carried by the ring and capable of having lines ruled upon it and a drift bar rotatable over the disk about an axis parallel to the axis of the ring.

1,343,953. MEANS FOR ATTACHING DIRECTION-SHEETS TO CANS. LEON A. WOLTERS, Chicago, Ill., assignor to The Thoro Corporation, Chicago, Ill., a Corporation of Delaware. Filed May 24, 1919. Serial No. 299,525. 5 Claims. (Cl. 40—21.)



1. A container having an annular bead adjacent to one end, a sheet folded into the form of a band having a length approximately equal to the circumferential length of said container and wrapped around the container, a ribbon attached at one end to the middle of said band and passing across said end of the container, and a wafer overlying and pasted to the ribbon in the vicinity of the other end, and the meeting ends of said band.

1,343,954. METHOD OF AND APPARATUS FOR TESTING FOR DYNAMIC BALANCES. NICHOLAS W. AKIMOFF, Philadelphia, Pa., assignor to Vibration Specialty Company, a Corporation of Delaware. Filed July 20, 1917. Serial No. 181,714. 6 Claims. (Cl. 73—51.)



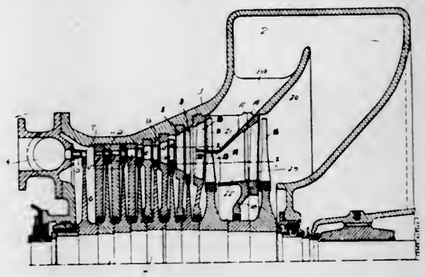
1. The method of testing a rotatable machine element for dynamic unbalance after the same has been statically balanced which consists in mounting on the shaft of said machine element a counterbalancing weight and measurably adjusting the angular, radial and longitudinal position of said weight with reference to the shaft until lateral vibration is eliminated during rotation to thereby ascertain the location and value of the disturbing centrifugal couple existing in said machine element.

1,343,955. MEANS FOR HERMETICALLY SEALING CONTAINERS. HERBERT A. BAKER, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 17, 1916. Serial No. 72,562. 3 Claims. (Cl. 220—61.)



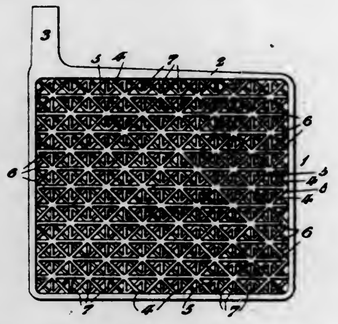
1. A sealing strip adapted to be bent or formed around the flanged joints of can bodies and can covers, for forming hermetic seams, having secured to one side thereof sealing or gasket material which, when applied to the said flanges, lies over and under said flanges and inside of said sealing strip.

1,343,956. STEAM-TURBINE. KARL BAUMANN, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited, a Company organized under the laws of Great Britain. Filed Aug. 23, 1917. Serial No. 187,858. 1 Claim. (Cl. 253—69.)



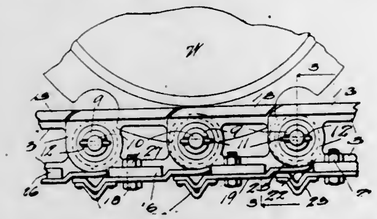
In an axial flow steam turbine, a stage or section having blades constructed in multiple tiers formed so that the steam flowing through the inner tier has a greater ratio of expansion than the steam flowing through the outer tier.

1,343,957. BATTERY-GRID. FRANKLIN R. BICKHART, Philadelphia, Pa., assignor to Arthur H. Lyons, Philadelphia, Pa. Filed Dec. 1, 1919. Serial No. 341,663. 5 Claims. (Cl. 204—29.)



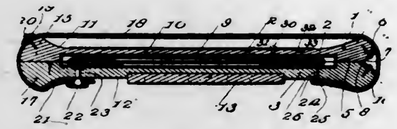
3. A grid for secondary batteries comprising a frame, and opposite sets of spaced parallel ribs, said ribs forming opposite sets of rectangles, the rectangles of one set being arranged in staggered relation to those of the opposite set.

1,343,958. TRACTOR-BELT. ARTHUR R. BLEWETT, Tacoma, Wash., assignor to Blewett Tractor Company, Tacoma, Wash. Filed June 23, 1919. Serial No. 306,070. 3 Claims. (Cl. 305—10.)



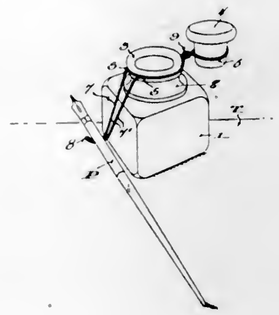
1. The combination in a tractor belt with a link having spaced vertical webs and lateral perforated ears, of a tread plate secured to said ears having a V-shape transverse rib directly beneath the hinge of the link and depending lugs on the lower edges of said webs engaged in the recessed portion of the rib, the front end of said plate being upwardly offset and formed with spaced open slots to overlap a preceding plate and permit the webs of the preceding link to bear directly on its plate.

1,343,959. COMBINATION TOILET ARTICLE. ROBERT E. BROWN, Olean, N. Y. Filed Jan. 7, 1918. Serial No. 210,728. 4 Claims. (Cl. 51—203.)



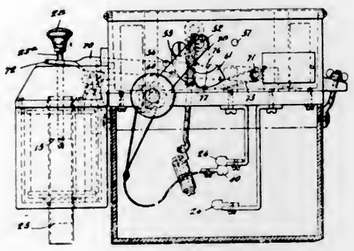
1. In a device of the class described, a stock comprising members hingedly connected at one end, a strop secured to one of said members at a point remote from the hinged end thereof and passed around the hinged ends of the said members and secured to the other one of said members, the non-contacting faces of the said members at their hinged ends being provided with shoulders engaging the inner surface of the strop and rounded eccentrically with respect to the hinge joint.

1,343,960. INK-BOTTLE ATTACHMENT. CHARLES A. BURDICK, Kenosha, Wis. Filed Jan. 12, 1920. Serial No. 350,931. 2 Claims. (Cl. 120—4.)



1. A stopper holder for containers comprising a stopper receiving seat, a pair of resilient arms extended from the seat and adapted to spring around a container, and a substantially V-shaped spring member having the ends of its arms connected with the corresponding resilient arms whereby to increase the spring tension of the latter.

1,343,961. NO-VOLTAGE RELEASE ATTACHMENT FOR ELECTRIC SWITCHES. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed Dec. 9, 1916. Serial No. 136,096. 4 Claims. (Cl. 200—106.)

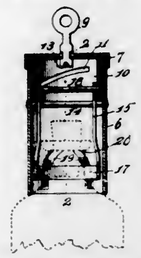


4. A no-voltage release attachment for motor-starting switches comprising tripping means for the switch, consisting of a dog having lever-engaging means adapted to be fixed to the shaft of the operating element of the switch, a spring-controlled tripping-lever having dog-engaging means, said lever extended outward through the side wall of the switch case, a solenoid arranged to be supported by the switch case, and a movable solenoid core-piece having a stem with a head thereon, the extremity of the tripping-lever being bifurcated to receive said stem below the head and be engaged by the head to admit of the tripping-lever being moved by the downwardly moving core-piece, and also independently of the core-piece.

1,343,962. SAFETY-LOCK FOR BOTTLES OR THE LIKE. JOHN BYRNE, San Quentin, Calif., assignor of one-half to Clark Hudson, St. Louis, Mo. Filed Nov. 16, 1916. Serial No. 131,632. Renewed Jan. 30, 1920. Serial No. 355,194. 3 Claims. (Cl. 215—33.)

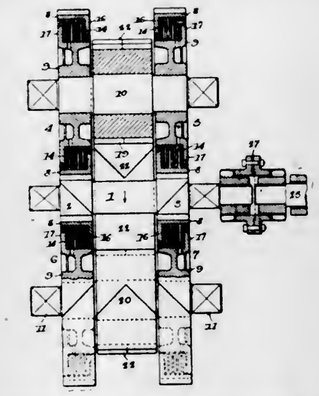
1. A device of the class described comprising an outer shell, a rigid cap mounted thereon, a vertical operating unlocking member located therein, a plurality of springs attached to the inner surface of the shell and operated

by the movement of the unlocking member and a partially rotatable sleeve in communication with the unlocking



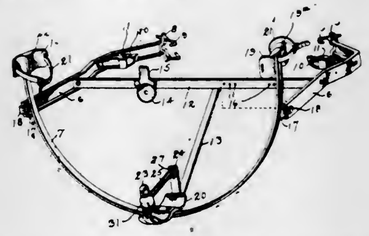
member, the partial rotation of the sleeve elevating the unlocking member and straightening out the springs, substantially as specified.

1,343,963. TRANSMISSION-GEARING. PERCY C. DAY, Milwaukee, Wis., assignor to The Falk Company, Wauwatosa, Wis., a Corporation of Wisconsin. Filed Dec. 13, 1918. Serial No. 266,525. 6 Claims. (Cl. 74—7.)



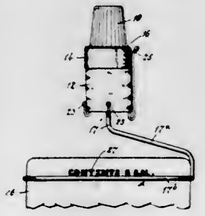
1. In transmission gearing the combination of a driving gear, a driven gear and two trains of intermediate gears meshing respectively with the driving and driven gears, one gear of each train comprising a hub section, a helically toothed rim axially movable on the hub section and meshing with the driving gear, and a resilient axially yielding member between the hub section and rim.

1,343,964. TIRE-CARRIER FOR VEHICLES. WAYNE E. DUNSTAN, Dayton, Ohio, assignor to Robert Hagen, Dayton, Ohio. Filed Feb. 26, 1919. Serial No. 279,378. 8 Claims. (Cl. 224—29.)



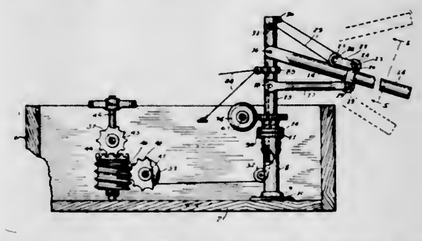
1. A tire carrier for application to a vehicle chassis having side bars and a transverse body bolster, comprising two oppositely disposed outwardly bowed side arms, attachment means at the extremities of said arms by which the arms may be attached to the side bars of a vehicle chassis, spuds projecting inward from the bowed side arms at medial points thereof and adapted for engagement with the transverse body bolster of the vehicle chassis, a semi-circular supporting bar connecting the rearward ends of the side arms, and tire engaging members carried by the supporting bar.

1,343,965. FIXTURE FOR DRINKING-CUPS. CHARLES ERRETT, New York, N. Y., assignor to Public Service Cup Company, Brooklyn, N. Y., a Corporation of New York. Original application filed Mar. 31, 1916. Serial No. 87,970. Divided and this application filed July 26, 1919. Serial No. 313,440. 6 Claims. (Cl. 248—20.)



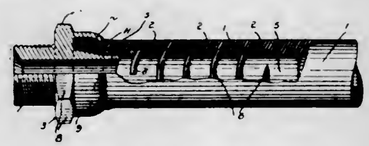
1. A drinking cup support comprising a supporting member, a plurality of arms parallel with and spaced from said member, said arms being grouped in operative correlation and together constituting a device arranged to extend into and support a stack of cups and continuing members extending radially from said supporting member and connecting one end of said arms therewith.

1,343,966. POWER HOISTING AND CONVEYING MACHINE. ISAAC FERGUSON, Shelby, Ohio. Filed July 15, 1919. Serial No. 310,962. 21 Claims. (Cl. 212—58.)



1. In a power hoisting and conveying machine, a lifting mechanism provided with a projecting arm, a link mechanism movably secured to said arm, pivoted supporting means secured to the link mechanism and means connected to the link mechanism to raise or lower the projecting arm.

1,343,967. HOSE-COUPLING. HENRY R. GILSON, New Rochelle, N. Y., assignor to New York Belting & Packing Company, a Corporation of New York. Filed Nov. 15, 1918. Serial No. 262,638. 3 Claims. (Cl. 285—84.)



1. In combination, a compressible conduit, and a coupling therefor having integrally united parts one of

which engages the interior and the other the exterior of said conduit, the exterior of said conduit and said exteriorly engaging part having complementary locking parts to prevent longitudinal and turning movement of the conduit relative to said coupling, and the interior of said conduit and said interiorly engaging part having complementary parts cooperating with said first mentioned complementary parts to prevent longitudinal movement of the conduit relative to said coupling.

1,343,968. RULER. WILLIAM J. HAHN, Philadelphia, Pa. Filed Jan. 6, 1920. Serial No. 349,717. 3 Claims. (Cl. 33—107.)



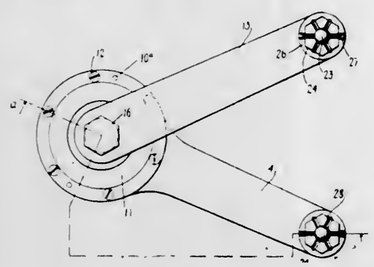
1. A ruler of the character described including a body portion having a groove; a strip of non-slipping material positioned within said groove; and means for moving said strip outwardly so as to press against a surface upon which the ruler is placed; substantially as described.

1,343,969. MARINE MINE. FREDERIC W. HAMPTON, Indianapolis, Ind. Filed Mar. 5, 1918. Serial No. 220,441. 4 Claims. (Cl. 102—3.)



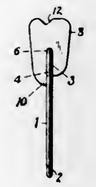
1. A marine mine comprising a main member, detonating mechanism embodying a rotary member for controlling the same, and a propeller blade carried by one of said members for causing relative rotation between said members by transportation of the main body member through the water, to cause explosion of the mine.

1,343,970. SHOCK-ABSORBER. EDWARD V. HARTFORD, Deal, N. J. Filed Nov. 2, 1914. Serial No. 869,831. 10 Claims. (Cl. 188—130.)



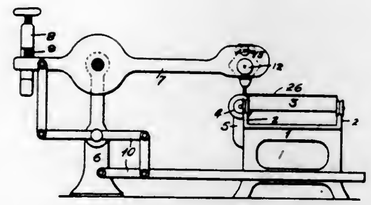
1. In a shock absorber for spring supported vehicles, a housing for frictional retarding elements, comprising an annular member, a sheet metal arm of two-part or bifurcated construction, embracing said annular member and mounted thereon, sheet metal inclosing caps for said annular member engaging the ends of said arms and provided with outwardly directed hub portions, a second sheet metal arm of two-part or bifurcated construction, straddling a portion of said first arm and the housing, and means for operably associating the housing and the second arm, so as to permit of their independent relative movement.

1,343,971. REPAIR-TOOL FOR TIRES. HARRY R. HIRST, Trenton, N. J. Filed Mar. 20, 1919. Serial No. 283,871. 2 Claims. (Cl. 152—27.)



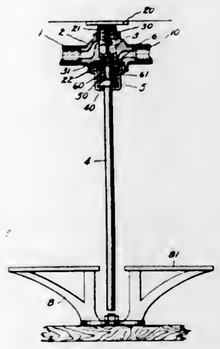
1. A needle having band engaging means in one end thereof, a member pivoted in the opposite end of the needle and having a stop formed thereon adapted to engage the needle, said pivoted member having a notch formed therein to receive said band and extend the latter in a line passing the pivot point of the pivoted member on the same side of the needle that the stop engages the needle.

1,343,972. MACHINE FOR BEVELING THE EDGES OF MOUNTS AND PRINTS. ALLEN P. HOARD, Taunton, Mass. Filed July 2, 1919. Serial No. 308,291. 9 Claims. (Cl. 41—1.)



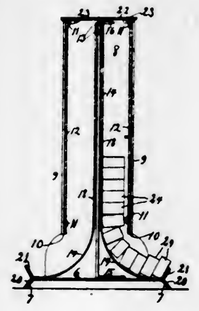
5. A bevel cutting machine comprising a cutter, a work support movable adjacent the same, a head angularly adjustable above the cutter, a reversible holder carried by the head, and a presser stick carried by the holder.

1,343,973. AUTOMATIC MEANS FOR OPERATING FLANGE-OILERS, &c. CHARLES F. HOOFER, Seattle, Wash. Filed July 11, 1919. Serial No. 310,083. 5 Claims. (Cl. 188—131.)



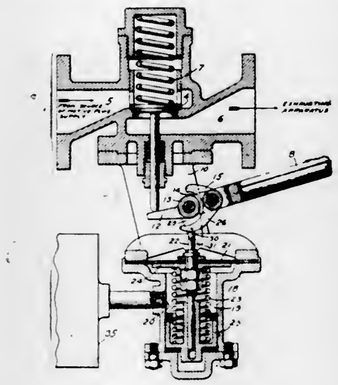
1. A means for controlling a valve mechanism by the swinging of a pivoted truck; comprising a controlling bar carried by the car body and having associated therewith means whereby the valve is opened by the swinging of the bar from its normal position, tappet bars carried by the truck at each side of the normal position of the controlling bar, said tappet bars extending in reversed angular positions with reference to the direction of their movement with the truck and having their adjacent ends separated to permit passage of the controlling bar between them.

1,343,974. DISPENSING-CABINET. WILFRED J. JANDRON, Minneapolis, Minn. Filed July 24, 1919. Serial No. 313,129. 3 Claims. (Cl. 211—8.)



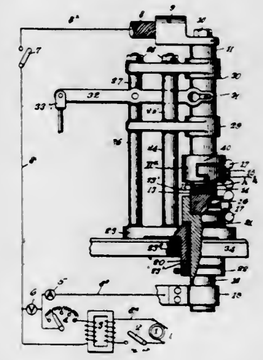
1. A dispensing cabinet composed of a base, a vertical inclosure open at its top mounted on the base and having two opposite outlet ports for goods near the base, means for guiding goods from the top of the inclosure down and out of said ports upon the base; guards on the base for limiting the escape of the goods from the ports; said inclosure having near its top a fixed horizontal cross bar with a vertical journal bearing in its middle, a vertical rod rotatable and slidable in said bearing and having at its upper end a lateral handle and at the lower end a lateral shelf by which to lower goods down into either side of the inclosure, adjacent each port in the same.

1,343,975. CONTROL-VALVE FOR REFRIGERATING APPARATUS. GOTTDANK L. E. KOTHNY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 30, 1915. Serial No. 17,996. 10 Claims. (Cl. 230—24.)



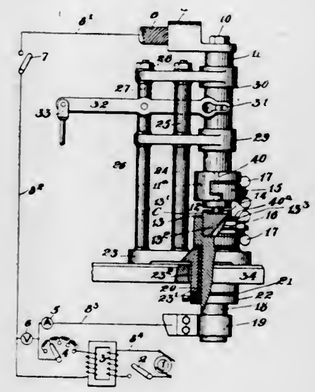
1. In combination, a receptacle, a valve for controlling the delivery of fluid to the receptacle, a valve operating mechanism comprising means for opening said valve, and pressure actuated means responsive to a building up of pressure in the receptacle for rendering the said opening means incapable of opening the valve.

1,343,976. HARDENED MATERIAL FOR USE IN THE ARTS AS SUBSTITUTES FOR DIAMONDS, &c., AND PROCESS OF MAKING THE SAME. ALFRED J. LIEBMANN, New York, N. Y., and CLEMENS A. LAISE, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed May 5, 1917. Serial No. 166,678. 30 Claims. (Cl. 148—10.)



5. The process of producing material suitable for wire drawing dies or as substitutes for jewels which consists in pressing powders of substantially pure refractory metals into shapes, and hardening said shapes by bringing the same to a white heat between suitable electrodes while embedded in a powdered mixture of carbon and a rare earth oxid.

1,343,977. HARDENED MATERIAL FOR USE IN THE ARTS AS SUBSTITUTES FOR DIAMONDS, &c., AND PROCESS OF MAKING THE SAME. ALFRED J. LIEBMANN, New York, N. Y., and CLEMENS A. LAISE, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y., a Corporation of New Jersey. Original application filed May 5, 1917, Serial No. 166,638. Divided and this application filed Nov. 23, 1918. Serial No. 263,815. 22 Claims. (Cl. 148—10.)

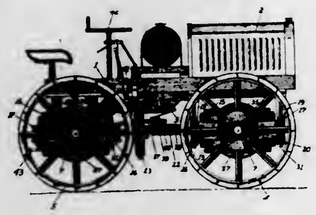


1. The process of producing hard materials suitable for use as wire drawing dies or as substitutes for jewels which consists in mixing with substantially pure refractory metal powder a powdered carbon, pressing the mixture into shapes, baking and then sintering the same at white heat.

1,343,978. METHOD OF AND MATERIAL FOR MAKING DRAWINGS AND OTHER RECORDS. CHARLES H. LITTLE, Cleveland, Ohio. Filed June 3, 1916. Serial No. 101,633. 18 Claims. (Cl. 41—46.)

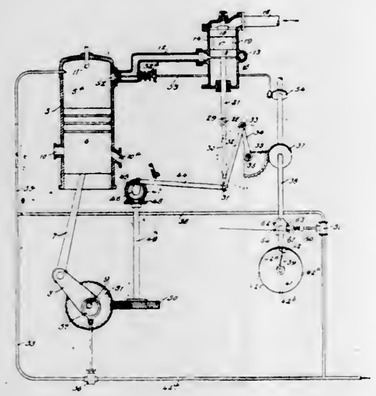
1. The method of making a drawing or other graphic record, which comprises making the drawing or record on a base, and by chemical action rendering the drawn or inscribed lines or markings substantially opaque to actinic rays.

1,343,979. TRACTOR. JOHN W. LIVERMORE, Fresno, Calif., assignor to Lisenby Manufacturing Company, Fresno, Calif, a Corporation. Filed Feb. 18, 1919. Serial No. 277,779. 7 Claims. (Cl. 180—50.)



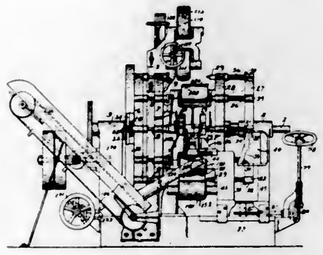
1. A tractor comprising a frame, a power unit thereon, a longitudinal rigid drive shaft central of the frame and in driving connection with the power unit, wheel supported axles normally at right angles to the drive shaft and on the same horizontal plane therens, the axis of the drive shaft intersecting the transverse center line of the axles, pinions on the ends of the shaft meshing with floating gears concentric with the axles, and flexible driving means between the axles and the gears, such points of driving connection being in the plane of the intersection of the shaft with the axles, whereby the axles may be turned in a horizontal plane about such point of intersection as an axis.

1,343,980. CONTROLLING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. CHARLES A. MULLER, Islip, N. Y., assignor to August Mietz Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 3, 1917. Serial No. 152,296. Renewed Oct. 31, 1919. Serial No. 334,821. 14 Claims. (Cl. 123—41.)



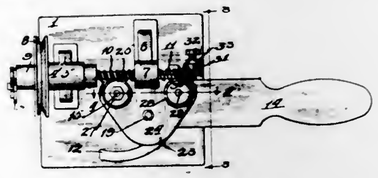
5. In an internal combustion engine of the kind described an air cylinder connected with a source of compressed air a connection from said air cylinder to the engine cylinder, a slide valve in said air cylinder for controlling the air connection, means for actuating and adjusting said slide valve to change the relation between the air impulses and the engine piston whereby said engine may be reversed, an engine valve controlling the connection between the air cylinder and engine cylinder whereby the air cylinder is protected from the effects of explosions in said engine cylinder, and means for actuating said engine valve and for maintaining it in a stationary open position, said last named means being operatively connected with the means for actuating and adjusting the slide valve.

1,343,981. WOOD SANDING OR POLISHING MACHINE. JOHN M. NASH, Wauwatosa, Wis. Filed Nov. 19, 1917. Serial No. 202,679. 30 Claims. (Cl. 51—145.)



1. In a wood polishing machine, the combination with revoluble sanding belts, of a carrier adapted to convey the stock successively into and out of contact with the belts, means for utilizing the carrier movement to partially rotate the stock about its own axis while in effective contact with the belt, means for completing the rotation of the spoke while out of effective contact with the belt, and means for limiting such rotary movement to a single revolution, whereby the stock may be presented by the carrier to a succeeding belt in substantially the same relative position which it occupied with reference to the first belt when presented thereto.

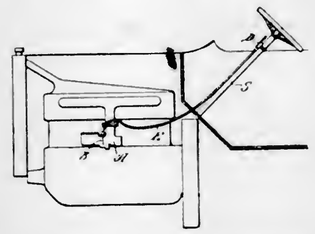
1,343,982. WORM-WHEEL CUTTER. ARCHIE E. PARNALL, Chicago, Ill., assignor to Frank W. Williams, Chicago, Ill. Filed Aug. 21, 1917. Serial No. 187,389. 5 Claims. (Cl. 90—4.)



1. A worm wheel cutter comprising a rotatable shaft, a worm and a cutter tool coaxially forming a part thereof and rotatable therewith, a driving wheel on said shaft, a clutch mechanism on said shaft for controlling the operation of said driving wheel and shaft, a pivoted handle, a gear mechanism mounted thereon adapted to mesh with said worm to be driven thereby, and a blank holder on said handle adapted to be rotated with said gear mechanism and moved toward said cutter tool by said handle to permit a blank rotatable with said holder to be cut by said cutter tool to form a worm wheel.

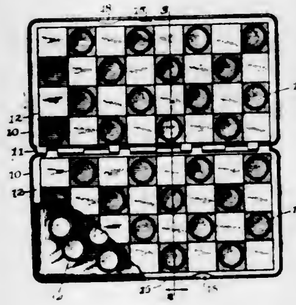
1,343,983. CARBURETER. ANTHONY J. PICHL, St. Louis, Mo. Filed Feb. 8, 1918. Serial No. 215,974. 3 Claims. (Cl. 137—139.)

1. A carbureter for motor operated vehicles, comprising a float chamber provided with an orifice through which liquid fuel escapes, a reciprocating needle valve for regulating the discharge of fuel from said orifice, and an operating device for said valve leading to a point in proximity to the operator in charge of the vehicle and consisting of an non-compressible and non-extensible exten-



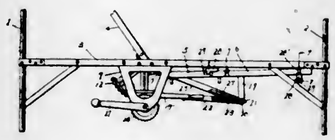
sion on said valve directly connected to same and having sufficient rigidity to cause the valve to move in one direction when said extension is pushed and to move in the opposite direction when said extension is pulled.

1,343,984. POCKET GAME-BOARD. JOSEPH H. RAMSEY, Albany, N. Y. Filed May 10, 1917. Serial No. 167,636. 1 Claim. (Cl. 46—64.)



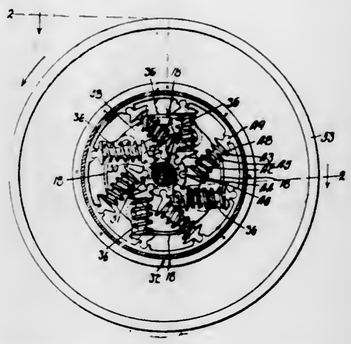
A pocket gameboard consisting of a pair of halves composed of sheet metal shaped to form shallow receptacles and hinged to fold together face to face, releasable means to hold the halves in closed position, sheet metal lids hinged to the halves and to each other on the same pintle as the halves, to form closures for the receptacles and having their upper surfaces marked to serve as a playing surface when the two halves are opened out and having recesses or depressions to receive the playing pieces, and releasable means to hold the lids in closed position on the receptacles.

1,343,985. ADJUSTABLE BED. JOHN RUST, Kalamazoo, Mich. Filed July 25, 1919. Serial No. 313,311. 6 Claims. (Cl. 5—12.)



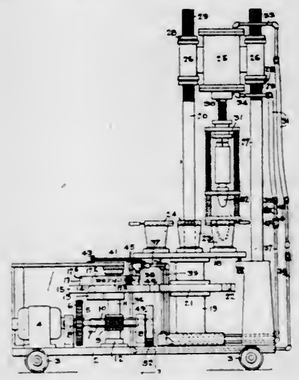
1. In an adjustable bed, the combination of a supporting frame, a bed mottom comprising pivotally connected head, seat and foot sections, segments on which said head section is mounted pivotally mounted on said frame, an actuating shaft provided with pinions meshing with said segments, depending arms on said foot section, slotted links connected to said segments, links connected to said seat section, pins on said arms engaging the slots of said links, said pins being provided with clamping nuts whereby said links may be clamped to said arms or permitted to slide thereon, and rests for said seat and foot sections adjustably mounted on said frame to support said sections or permit the adjustment thereof.

1,343,986. RESILIENT WHEEL. HOMER R. SHAFER, Detroit, Mich. Filed Oct. 8, 1918. Serial No. 257,328. 7 Claims. (Cl. 152—45.)



1. A resilient driving and carrying wheel comprising an inner hub element, an outer hub element, and a series of resilient driving and carrying spokes interposed between said elements and inclined forwardly from the corresponding radii of the wheel which pass through their inner ends, whereby torque for driving the outer hub element forwardly from the inner hub element is resiliently applied, said inner element including an arm, the outer element having members between which the arm is disposed said members being arranged to alow relative forward angular movement of the inner hub element in respect to the outer hub element to thereby develop the resiliency of the spokes, and one of the members being positioned to thereafter engage with the arm to establish positive driving connection between the hub elements.

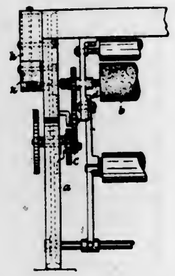
1,343,987. GLASS-PRESSING MACHINE. FREDERICK W. STEWART, Beaver, Pa. Filed Oct. 27, 1915. Serial No. 58,221. 2 Claims. (Cl. 49—38.)



1. In a glass pressing machine, the combination of a rotary table, means for intermittently rotating same, a mold on said table, a plunger, a fluid-operated cylinder for

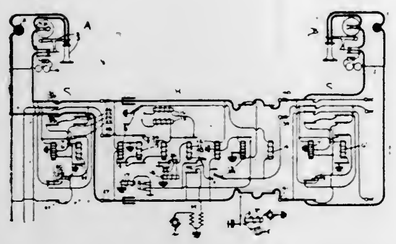
said plunger, a valve controlling motive fluid to said cylinder, fluid-supply connections leading to the upper and lower ends of said cylinder, a rotary-member, a cam on said rotary-member, an arm on said valve in the path of the movement of said cam, and means independent of said valve for cutting off the supply of motive fluid to said cylinder and at the same time trapping the fluid in the lower end thereof.

1,343,988. LOOM-CLOCK. MATTEO TAMBURINI, Paterson, N. J. Filed July 19, 1919. Serial No. 312,027. 1 Claim. (Cl. 235—144.)



In combination, a housing and means therein to measure the progress of a moving element including a transmission train having an upright rotary member normally coupled at its lower end and within the housing with a neighboring member in the train but movable upwardly to disestablish the coupling, said member having an upwardly detachable head normally connected to turn therewith and protruding upwardly from the housing, said head and the top of the housing having a coacting pointer and dial.

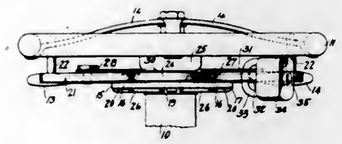
1,343,989. AUTOMATIC TELEPHONE SYSTEM. FRANKLIN J. TRUBY, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1918. Serial No. 228,536. 7 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic switch, an operating magnet for said switch, a relay for controlling said magnet, means for closing a circuit including the two sides of a calling line in series through said relay and magnet in series, means controlled directly by said magnet for maintaining said relay short circuited, and means controlled by said relay for rendering said magnet inoperative.

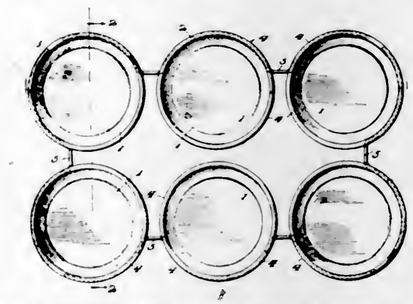
1,343,990. AUTOMOBILE-LOCK. JOHN WENNING, New York, N. Y. Filed May 12, 1919. Serial No. 296,469. 13 Claims. (Cl. 70—126.)

1. As a new article of manufacture, an automobile steering wheel lock comprising a bar to extend across the steering post, lugs upon the ends of the bar to hook over the spokes of the steering wheel, means upon the bar to



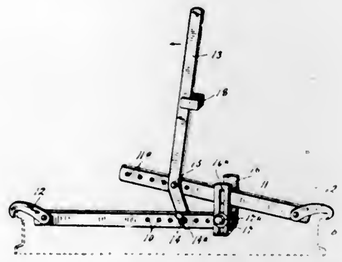
engage a fixture upon the steering post to prevent the bar and steering wheel from turning and means to retain the bar upon the wheel.

1,343,991. COMPOSITE BAKE-PAN. WALTER M. AIKMAN, Greenwich, Conn., assignor to The Central Stamping Company, New York, N. Y., a Corporation of New York. Filed July 21, 1919. Serial No. 312,445. 3 Claims. (Cl. 53—6.)



2. A composite bake pan comprising a plurality of rows of individual round bake pans constituting a group, and wire substantially inclosing the group having reëntering portions following portions of the curved contours of the upper edges of adjacent pans and joining the pans of the group together, said reëntering portions being adapted to prevent rotation of the pans about the wire, the upper edges of said pans being beaded over said wire to provide a reinforced strengthening edge and to secure the pans firmly together, thus insuring a substantially free flow of hot air upward around the individual pans.

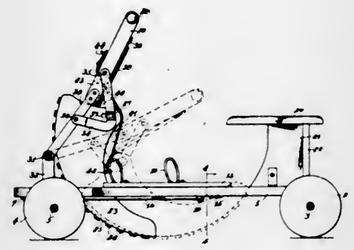
1,343,992. TOOL FOR CONTRACTING AND EXPANDING DEMOUNTABLE WHEEL-RIMS. GEORGE W. ARMAGOST, Minneapolis, Minn. Filed May 5, 1919. Serial No. 294,668. 2 Claims. (Cl. 157—1.)



1. A rim contracting and expanding tool comprising a pair of oppositely extended bars provided at their outer ends with grab hooks and thrust shoulders, the former for contracting and the latter for expanding the rim, a lever having a crank acting and pivoted to the inner end portions of said two bars, the said grab hooks and thrust

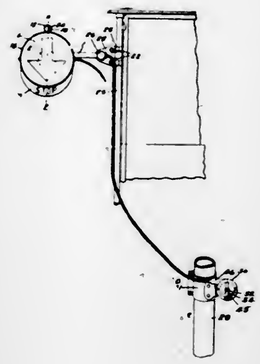
shoulders being engageable with the rim when said lever is in a plane that is approximately perpendicular to the plane of the rim, one of said bars, at its inner end, having an offset bracket that embraces the other bar and holds the two bars against lateral separation in the rim contracting and expanding actions, the said bracket being connected to said bar with freedom for sliding movements.

1,343,993. VEHICLE. ROY BARRETT, Palmyra, N. Y. Filed June 30, 1919. Serial No. 307,599. 5 Claims. (Cl. 208—38.)



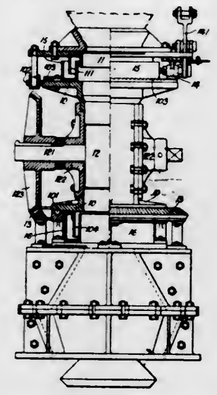
1. In a vehicle, a propelling means comprising a movable operating member, a pusher having a ground engaging portion curved on an arc of a circle and pivotally mounted on the movable member, its pivot being eccentric to the curve of the ground engaging portion, and yielding means acting on said pusher.

1,343,994. DIRECTION-INDICATOR FOR VEHICLES. GEORGE E. BATES, Syracuse, N. Y. Filed Mar. 1, 1919. Serial No. 279,932. 5 Claims. (Cl. 40—46.)



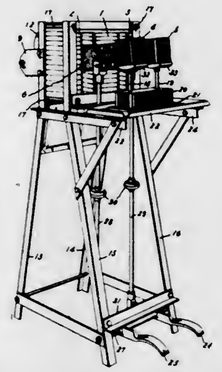
1. A direction indicator for motor cars comprising a substantially vertical combined background and indicator member having a completely exposed face and movable on a horizontal axis and disposed in a transverse plane with relation to the vehicle so as to present its entirely exposed face in a transverse plane in every position to the observer, and a direction character on said face carried to different positions by the movements of the said member.

1,343,995. GAS-GENERATOR. GEORGE HERBERT BENTLEY and EDMUND GARDNER APPLEBY, Westminster, London, England. Filed July 7, 1919. Serial No. 308,997. 4 Claims. (Cl. 214—18.)



1. In apparatus for feeding fuel to gas generators, a receiving and delivering drum mounted centrally over the mouth of the generator, means for rotating the drum about two axes at right angles to each other and means for distributing the fuel.

1,343,996. ELECTRIC HEATING APPARATUS. EDGAR F. COLLINS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,656. 4 Claims. (Cl. 219—11.)

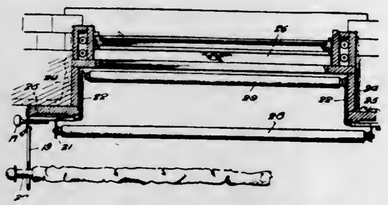


1. In an apparatus for electrically heating articles o the class described, a transformer winding comprising a plurality of independently movable conducting bars carrying electrodes; and a conducting member between which and the movable electrodes the articles to be heated are adapted to be interposed whereby a series circuit may be completed through said winding and the articles to be heated.

1,343,997. CURTAIN AND SHADE HANGER. EDWARD J. CORRIGAN, Newport News, Va. Filed Sept. 5, 1919. Serial No. 321,845. 2 Claims. (Cl. 156—24.)

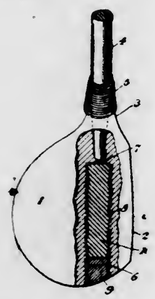
1. In a shade hanger, the combination with a hanger body provided with a rearwardly directed jaw, and a plate adjustably slidable upon the hanger body and provided with a rearwardly directed jaw to coact with the first jaw for securing the device in active position, of a bent

arm engaged at one end portion thereof with the hanger body with its bend fitting the jaw of said plate and the other end portion thereof extending rearwardly from the hanger body for supporting a shade.



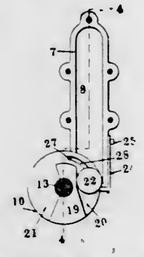
2. In a shade hanger, the combination with a hanger body provided with a rearwardly directed jaw, and a plate adjustably slidable upon the hanger body and provided with a rearwardly directed jaw to coact with the first jaw for securing the device in active position, of a bendable arm provided at one end portion thereof with means for supporting a shade and being engageable at its opposite end portion with the hanger body whereby the arm may be bent to fit the jaw of said plate having the first end portion thereof extending rearwardly from the hanger body.

1,343,998. GOLF-CLUB. THOMAS H. GRANT, Englewood, N. J. Filed Nov. 4, 1919. Serial No. 335,723. 3 Claims. (Cl. 46—4.)



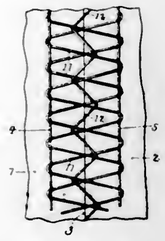
1. The combination, in a golf club, of a wooden head, having a weight socket disposed in the vertical plane of the handle and the horizontal plane of the normal position of the club in use, an elongated, unitary, reinforcing weight permanently fixed in said socket and evenly disposed longitudinally and laterally relative to the point of the impact of the club with a ball, and a wooden element closing the outer end of said socket.

1,343,999. COIN-CONTROLLED MECHANISM. GILBERT L. HUFF, St. Louis, Mo. Filed Oct. 15, 1919. Serial No. 330,722. 3 Claims. (Cl. 194—61.)



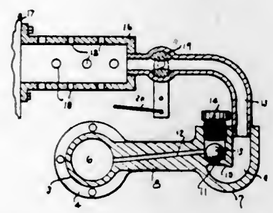
1. In a coin controlled mechanism, the combination with a pair of disks arranged side by side and having a coin passage therebetween, a detent for locking one of said disks, a projection on said locked disk between which and said detent a coin is adapted to lodge, and a projection on the other of said disks for moving the coin to release the detent while said first named disk is stationary.

1,344,000. SEAM. ROBERT R. HUGHES, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 20, 1916. Serial No. 110,368. 4 Claims. (Cl. 112—262.)



1. A duplex seam for sewed articles comprising abutted edges of fabric, a retaining seam having parallel rows of anchoring loops respectively disposed on opposite sides of said abutted edges and cross threads connected to said loops, and a covering seam formed by a single zig-zag line of needle thread, with means for holding the loops thereof on the opposite side of the fabric, the consecutive needle loops of the covering seam being disposed in staggered relation and on opposite sides of the abutted edges of the fabric.

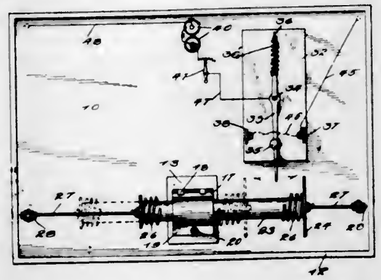
1,344,001. CARBURETER ATTACHMENT. JACOB JONES, Issaquah, Wash. Filed Aug. 12, 1918. Serial No. 249,429. 1 Claim. (Cl. 123—124.)



The combination with an intake manifold and engine cylinder, of a unit for delivering heated air to the manifold, comprising a preheating casing connected directly to the engine cylinder and having openings to the atmosphere, an arm connected to the intake having a small bore open to said intake, the free end of the arm being formed with a U-shaped channel with both ends opening through the upper surface of the arm, a transverse partition in said channel and formed with an opening, the arm-bore opening into said channel on one side of the partition, a pipe connecting said channel on the opposite side of said partition with the preheating casing, a gravity-operated valve cooperating with the opening in the partition and with the arm-bore inlet into the channel, and a plug threaded into one end of the channel to control the opening movement of said valve.

1,344,002. ELECTRIC TREATING AND EXERCISING MACHINE. JOHN B. KIBLER, Girard, Pa. Filed Apr. 30, 1919. Serial No. 293,697. 9 Claims. (Cl. 174—175.)

1. A device of the character described including a plunger, means for resisting movement of the plunger, manually operable means for reciprocating the plunger including hand electrodes, and a circuit closer in circuit with



said electrodes and operable by the plunger for closing the circuit through the electrodes.

1,344,003. BRAKE MECHANISM. BENJAMIN G. KRAMER, Indianapolis, Ind., assignor to Carl G. Fisher and James A. Allison, Indianapolis, Ind. Filed Nov. 18, 1916. Serial No. 132,153. 2 Claims. (Cl. 188—77.)



1. The combination with a brake, of a lever connected therewith normally approximately at the angle of minimum leverage of the lever and adapted to move toward its angle of maximum leverage, an eccentric, a flexible member secured to and passing about the arc of the eccentric, said eccentric being rigidly connected with the lever in such position that uniform stress from the flexible member exerts continually increasing force upon the lever, and means to apply power to the flexible member.

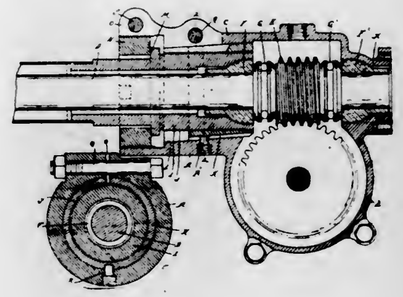
2. The combination with a brake, of a lever connected therewith normally approximately at the angle of minimum leverage of the lever and adapted to move toward its angle of maximum leverage, a curved arm, a flexible member secured to and passing about an arc of the curved arm, said curved arm being rigidly connected with the lever with its center of curvature other than its fulcrum and in such position that uniform stress from the flexible member exerts continually increasing force upon the lever, nad means to apply power to the flexible member.

1,344,004. CAMISOLE. LEO PLATT, New York, N. Y. Filed Dec. 28, 1918. Serial No. 268,587. 1 Claim. (Cl. 2—73.)



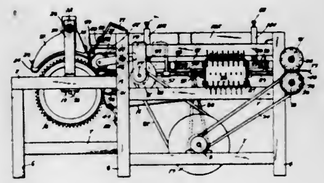
A camisole comprising a continuous integral body of substantially uniform width throughout, provided with straight upper and lower woven-in tubular edges, and drawing strings passing through said tubular edges, said body provided also with shoulder straps.

1,344,005. STEERING-GEAR. FREDERICK H. RAGAN, Detroit, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 30, 1919. Serial No. 320,757. 8 Claims. (Cl. 74—79.)



1. In a steering gear, the combination with a steering shaft, a rocker shaft, intermeshing gearing connecting said steering shaft with said rocker shaft, and a housing in which said shafts are journaled, of a bearing for the steering stem at one end of the gear thereon permitting a pivotal movement, and a bearing on said stem on the opposite end of the gear laterally adjustable to move said gear toward or from the intermeshing gear.

1,344,006. CONVEYING MECHANISM FOR BROOM-CORN MACHINES. GEORGE E. RUDOLPH, Chicago, Ill. Original application filed May 28, 1917, Serial No. 171,393. Divided and this application filed Oct. 25, 1917. Serial No. 198,395. 12 Claims. (Cl. 193—4.)

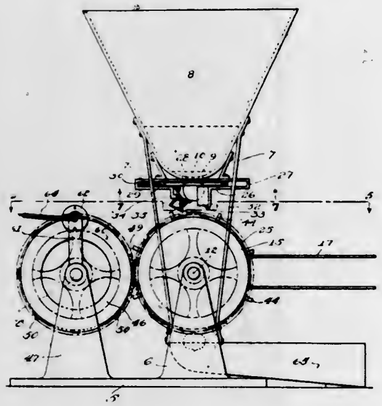


1. A device of the character described including a pair of flat endless belts normally in engagement with each other throughout a portion of their lengths, and a pair of chains adjacent said belts for moving the same, means for said chains for causing the central portion of one of said belts to force the central portion of the other of said belts below the plane of its sides throughout the length of engagement of said belts, and means for supporting said belts and chains in position.

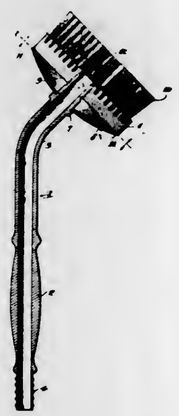
1,344,007. NUT-MARKING MACHINE. WILLIAM D. SIMPSON, Columbia, S. C. Filed July 22, 1919. Serial No. 312,480. 11 Claims. (Cl. 101—6.)

1. A nut marking machine comprising a hopper for receiving nuts to be marked, a nut-receiving carrier adapted to receive a plurality of nuts at a time beneath said hopper,

and means on said carrier for holding nuts, said means being controlled by the nuts, means in said hopper for delivering a plurality of nuts to the carrier at a time, means for marking the nuts, and means for moving the carrier to bring the nuts into contact with the marking means.

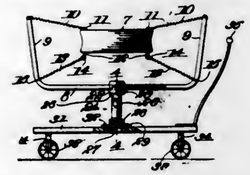


1,344,008. SHOWER AND CLEANING DEVICE. GEORGE EARL TREESE, Toledo, Ohio, assignor to The Toledo Shower Company, Toledo, Ohio. Filed Oct. 3, 1919. Serial No. 328,141. 1 Claim. (Cl. 15—69.)



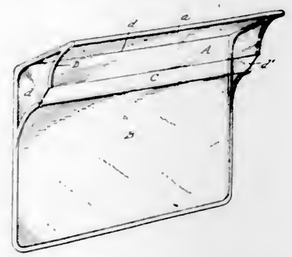
In a device of the class described, the combination of a handle provided with an integral, annular rib near its discharge end and with a threaded portion upon the discharge end, a housing provided with a concavo-convex body welded on the discharge end of the handle and the concavo-convex body engaging the annular rib, a head threaded upon the threaded portion of the discharge end of the handle and positioned within the housing, said head provided with bristles and with a clear, central portion, and a spraying or showering nozzle in the end of the handle upon which is threaded the head, and being capable of directing liquid through the clear, central portion of the head, unobstructed by bristles.

1,344,009. TRANSFERABLE CRADLE. EDWARD A. TURNER, Casper, Wyo. Filed Sept. 24, 1918. Serial No. 255,508. 3 Claims. (Cl. 5—56.)



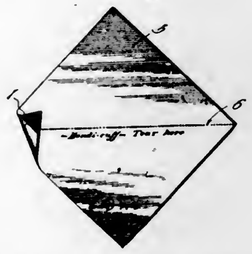
2. A cradle supporting structure including a base, a hollow pedestal detachably connected therewith, a head having a reduced extension telescopically received in the upper end of the pedestal, a horizontal bar polygonal in cross section passing through an opening in said head, said bar having its free extremities bent upwardly to form vertically extending arms, a cradle suspended between the arms by means of springs, means to adjust the relative position of the bar, and means to control the revolving movement of the head.

1,344,010. WINDSHIELD OR THE LIKE. CHANDLER WELLS, Buffalo, N. Y. Filed Jan. 13, 1919. Serial No. 270,828. 5 Claims. (Cl. 20—40.5.)



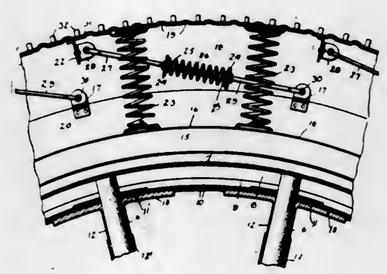
1. A shield for vehicles including an upper plate, and a lower plate spaced below and rearwardly with regard to said upper plate to form a slot between said two plates, said upper and lower plates having rearwardly and downwardly inclined parts causing a current of air to flow downwardly across said slot from the outer face of said upper plate to the outer face of said lower plate when said vehicle is moving forward, and a substantially upright part below said inclined part of said lower plate and which forms substantially a continuation thereof.

1,344,011. SLEEVE-PROTECTOR. DOROTHY V. D. WHITAKER, Philadelphia, Pa. Filed June 30, 1919. Serial No. 307,569. 5 Claims. (Cl. 2—95.)



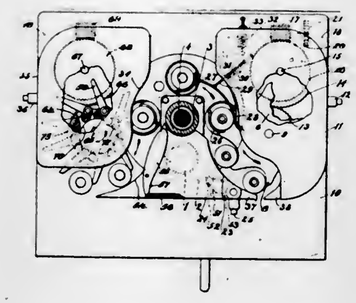
1. A sleeve protector comprising a triangular piece of paper adapted to encircle the wearer's arm, said triangular piece of paper being provided with an irregular edge to prevent chafing of the wearer's wrist.

1,344,012. SPRING-WHEEL. HARTFORD WILEMAN, Clay Center, Nebr. Filed July 22, 1918. Serial No. 246,059. 3 Claims. (Cl. 152—29.)



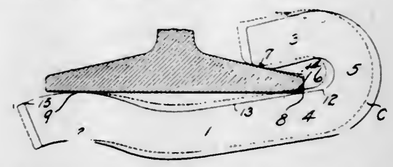
3. A vehicle wheel comprising a felly, a sectional casing thereon, spokes secured to the felly and extending through said casing and having a movement relative thereto, a channel member secured to said felly and movable therewith, a tread secured to said casing and having the portions adjacent the felly directed outwardly in spaced relation and between which the channel member is slidably received and then laterally in opposite directions against the inner surface of the tread member, coil springs interposed between the bottom of said channel member and the tread portion of said tread, shock absorbing devices interposed between adjacent coil springs and connected to said channel member and to said tread, each of said shock absorbing devices consisting of transversely disposed bars, a coil spring interposed therebetween for normally forcing the same apart, and a pair of rods connected to each bar and extending through the other bar, one pair of rods being connected to said channel member and the other pair of rods being connected to said tread member.

1,344,013. BOTTLE-HANDLING MECHANISM. ERASTUS E. WINKLEY, Lynn, Mass. Original application filed Feb. 24, 1913, Serial No. 750,289. Divided and this application filed April 4, 1914. Serial No. 829,450. 9 Claims. (Cl. 153—1.)



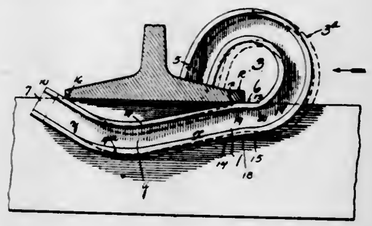
2. A machine for handling bottles, having, in combination, a traveling bottle support, a runway, and a transferring device operating to transfer the bottle from the support to the runway traveling at the same speed as the bottle support at the time of its engagement with a bottle on the support and at a reduced speed at the time of its delivery of the bottle to the runway, substantially as described.

1,344,014. RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Dec. 24, 1917. Serial No. 208,619. 41 Claims. (Cl. 238—330.)



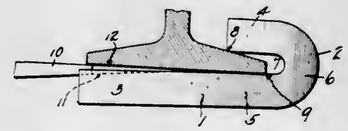
29. A rail anchor having a rigid jaw at one end and a tapered tail at the other.

1,344,015. RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Aug. 1, 1918. Serial No. 247,802. 31 Claims. (Cl. 238—330.)



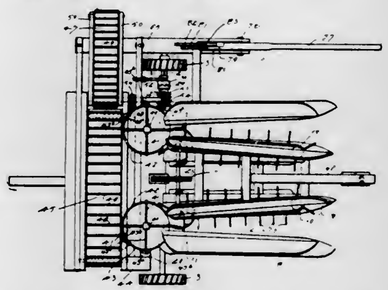
25. A rail anchor comprising a resilient clip of channel formation.

1,344,016. RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Jan. 25, 1919. Serial No. 273,120. 16 Claims. (Cl. 238—324.)



1. A rail anchor provided with rail flange engaging means, and means for adjusting the anchor to exert an upward pressure on the bottom edge portion of a rail flange.

1,344,017. CORN-HARVESTER. WILLIAM A. ZIMPFER, Jackson Center, Ohio. Filed Mar. 2, 1918. Serial No. 220,092. 4 Claims. (Cl. 56—78.)



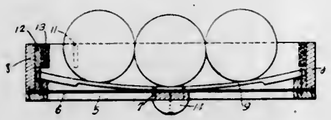
1. In a corn harvester, a horizontally disposed disk, stalk retaining bands mounted concentric with said disk in superposed spaced relation, and means for harvesting stalks of corn and conveying them to said disk in

upright position, the upper one of said bands being provided with a section mounted for movement about a vertical axis, whereby the section may be swung into and out of its normal position.

1,344,018. METHOD OF MAKING MAGNESIUM ARSENATE. EDWIN O. BARSTOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Sept. 16, 1918. Serial No. 254,200. 5 Claims. (Cl. 23—13.)

1. The method of making magnesium arsenate, which consists in bringing together magnesium hydrate suspended in water and a watery solution of arsenic acid.

1,344,019. EGG-TRAY. SAMUEL C. BEAMER, Marshalltown, Iowa. Filed Apr. 24, 1919. Serial No. 292,258. 3 Claims. (Cl. 119—44.)



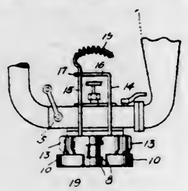
1. In a device of the class described, a tray; a track extended between oppositely disposed portions of the tray and bowed downwardly symmetrically from said portions of the tray to the longitudinal center of the tray; stops on said portions of the tray at the ends of the track; and a depending rocker on the tray adjacent the longitudinal center of the tray.

1,344,020. TONGUE-DEPRESSOR. COY MACMILLAN BUGBEE, Springfield, Vt. Filed June 11, 1919. Serial No. 303,275. 2 Claims. (Cl. 128—15.)



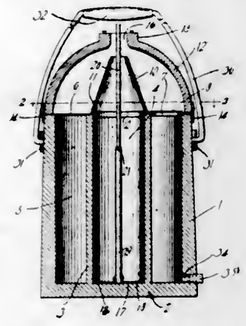
1. A tongue depressor comprising a single piece of spring wire bent to form loops, and provided with portions crossing each other, each of said portions being provided with a finger plate, one of said portions being bent to form a transversely extending eye for engaging a patient's chin, and the other of said portions being provided with a flat member curved slightly in the general direction of its length.

1,344,021. HEATER FOR CARBURETERS. REX C. BURNETT, Raleigh, Ill. Filed Sept. 6, 1919. Serial No. 322,029. 2 Claims. (Cl. 263—5.)



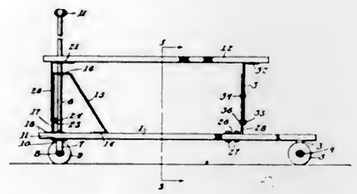
1. In a device for the purpose set forth, two substantially semi-cylindrical sleeves having a hinge connection at one of their ends, and a fuel receptacle upon their outer faces at their lower ends, suspending means on one of the sleeve members, and clamping means on the other sleeve member designed to engage with the suspending means for holding the members closed.

1,344,022. SANITARY CHURN. JESSE THOMAS CAMPBELL, Elbridge, Tenn. Filed May 6, 1920. Serial No. 379,335. 2 Claims. (Cl. 259—125.)



1. A churn comprising a body provided with a tube defining a cream compartment and a chamber about the cream compartment; an annular lid constituting a closure for the upper end of the chamber; a funnel-shaped cap constituting a closure to the upper end of the cream compartment; a dome-like top supported on the body and inclosing the cap; and a dasher operating in the cream compartment and extended outwardly through the cap and through the top.

1,344,023. KIDDIE-COASTER. MARVIN LEE CANTRELL, Pueblo, Colo. Filed Mar. 28, 1919. Serial No. 285,901. 2 Claims. (Cl. 280—87.5.)

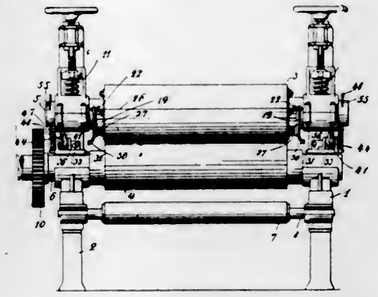


2. In a wheeled toy for children, a running board, wheels at the rear end thereof, a steering post passing through a guide opening in the front of the running board, a guide wheel on the steering post, a supporting brace for the steering post connected to the running board, a seat board above the running board receiving through the front end thereof the steering post, brace means between the seat board and the running board one of which being removably secured to the running board and the other to the seat board, each of said brace means comprising a pair of lapping adjustable sections, means for securing the sections adjusted, and a removable handle for the turning post.

1,344,024. WET PULP-MACHINE. HENRY A. CONSTANTINE, Niagara Falls, N. Y. Filed June 20, 1917. Serial No. 175,729. 13 Claims. (Cl. 92—67.)

1. In a machine of the class described, in combination, a roll adapted to receive a layer of pulp thereon, a flexible member extending lengthwise of the roll underneath said layer of pulp, and independent means upon each end of the machine adjacent said roll adapted to support and operate said flexible cutting member.

2. In a machine of the class described, in combination, a roll upon which is formed a layer of pulp, a flexible cutting member extending lengthwise of said roll underneath said layer of pulp, a lever at each end of said roll having an arm adapted to support said flexible cutting member adjacent the surface of said roll, and independent mechanically timed means at each end of the roll adapted to operate said levers, whereby the arms thereof will be swung outward from the roll.

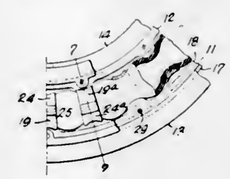


3. In a machine of the class described, in combination, a press roll upon which a quantity of pulp is adapted to be accumulated, a flexible shearing member adapted to lie in contact with said roll over which said pulp is adapted to be accumulated, and independently operated mechanically timed means located at each end of the roll and interposed in the support of said flexible shearing member adapted at pre-determined intervals to move the same outwardly, whereby the same will shear said pulp.

4. In a machine of the class described, in combination, a press roll upon which is adapted to be formed a cylindrical layer of pulp, a flexible shearing member adapted to lie in contact with said roll beneath said layer of pulp, and independent means at each end of the roll for supporting said flexible shearing member, and adapted at the end of a pre-determined number of revolutions of said roll to operate said last named means, whereby said shearing member will be caused to shear said layer of pulp.

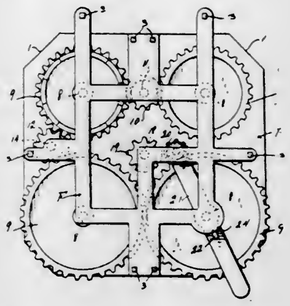
5. In a machine of the class described, in combination, a press roll upon which the pulp is accumulated in cylindrically formed layers, a flexible shearing member extending lengthwise of the roll beneath said layers of pulp, a lever pivotally mounted upon each end of the press roll adapted to support said shearing member, and means carried by the frame of the machine at each end thereof, adapted at the end of a predetermined number of revolutions of said press roll to operate said lever, whereby the latter will move said shearing member and cause it to shear said pulp.

1,344,025. TIRE. FRANK DITCHFIELD, Montreal, Quebec, Canada. Filed May 31, 1919. Serial No. 300,908. 7 Claims. (Cl. 152—33.)



1. In a tire, inner and outer concentric rims, an annular cushion located between and concentric with said rims, and cushion supporting members connected to the rims, said cushion being arranged to exert an expansive pressure between the supports and hold the supports normally equidistant and the rims normally concentric.

1,344,026. INKING-PLATE. OSCAR EADS, Okmulgee, Okla. Filed Feb. 7, 1920. Serial No. 356,960. 6 Claims. (Cl. 101—202.)



1. An ink distributing plate for a printing press provided with depressions in its working face, disks snugly fitting within said depressions, each of said disks including a journal extending through the plate, gears fixed to the journals, certain of said gears being larger than the remainder, the larger gears being in mesh, an idle gear meshing with one of the larger gears and a small gear and a second idle gear meshing with the small gears.

1,344,027. ORNAMENT-SUPPORT. JOHN E. EVILSIZOR and CARL FOLLRATH, Springfield, Ohio. Filed June 2, 1919. Serial No. 301,267. 1 Claim. (Cl. 211—17.)

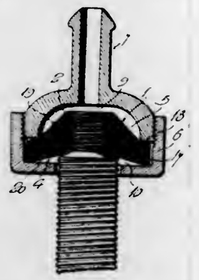


A substantially bell shaped article support comprising in combination, a plurality of spaced superimposed rings successively increasing in diameter from the uppermost to the lowermost ring, an ornamental covering for each ring, flexible elements connecting all of said rings at the peripheries thereof, and supporting the rings in spaced relation for permitting the device to collapse with the rings one within the other, said flexible supporting elements being of the same material as the covering for said rings, a circumferential series of eyes depending from each ring, a supporting hook having a terminal, and all of said flexible elements having their upper extremities brought together at a point centrally of the uppermost ring, and secured in said terminal as described.

1,344,028. GASKET FOR INFLATION-TUBE CONNECTIONS. ARNO A. EWALD, Oakfield, Wis. Filed July 1, 1919. Serial No. 307,903. 2 Claims. (Cl. 285—163.)

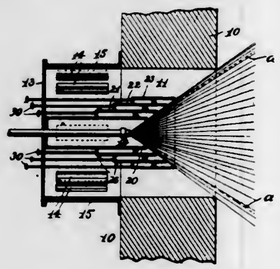
1. A gasket for inflation tube connections comprising a frusto-conical body formed of elastic material and provided with an axial opening to receive a tire valve or like nipple, the base of said frusto-conical body being extended beyond the tapered side thereof to provide an an-

nular external rib for clamping the gasket in place, said base being cupped from its peripheral edge to said opening to allow yielding of the gasket from its apex toward its



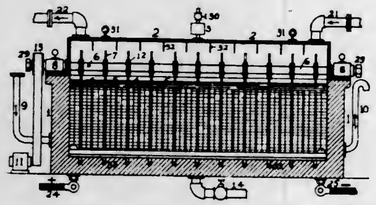
base under the pressure of the inflating fluid, whereby to contract said opening around the nipple in a fluid tight manner.

1,344,029. APPARATUS FOR BURNING OIL. ADALBERT FISCHER, Philadelphia, Pa., assignor to Alien Property Custodian. Filed Jan. 24, 1912. Serial No. 673,237. Renewed Nov. 13, 1919. Serial No. 337,887. 11 Claims. (Cl. 158—1.5.)



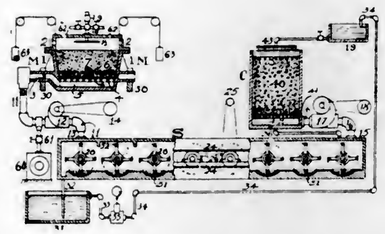
1. In an apparatus for burning oil, the combination with a spray nozzle for spraying the oil in the form of a hollow cone, and means for supplying air to the oil spray, of a shield mounted to extend about and to be closely adjacent to the spray cone at its forward edge to prevent access of air to the inner zones of the spray cone and to direct the air to an outer zone of the spray cone which is beyond the end of the shield, said shield being of sufficient extent to prevent access of air to the inner portion of the spray cone where the spray is of such density as to deflect the air current and substantially prevent the air from entering the spray, whereby the air will be caused to strike the portions of the spray cone which offer less resistance to the air.

1,344,030. METALLURGICAL PROCESS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Aug. 11, 1917. Serial No. 185,652. 22 Claims. (Cl. 204—10.)



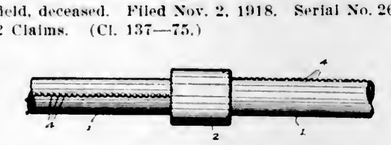
3. A process which consists in confining a gas over a liquid containing constituents capable of combining with the gas, charging the liquid with the gas by intimately mixing the liquid and the gas, electrolyzing the liquid, and maintaining a supply of the gas over the liquid from which the liquid may be charged with the gas as rapidly as the gas in the liquid is consumed in reacting with the constituents in the liquid capable of reacting with it.

1,344,031. PROCESS FOR TREATING LIQUIDS WITH GASES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Jan. 5, 1917. Serial No. 140,738. Renewed Nov. 24, 1919. Serial No. 340,241. 19 Claims. (Cl. 204—9.)



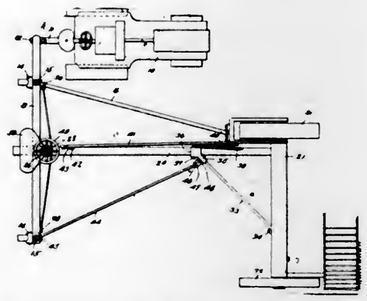
1. A process which consists in confining sulfur dioxid over a solution of the gas in dilute sulfuric acid, electrolyzing the solution, and maintaining the solution charged with the sulfur dioxid during electrolysis by spraying the solution into the gas above it.

1,344,032. PIPE AND MEANS FOR CONNECTING SAME. EDWIN T. GREENFIELD, Yonkers, N. Y.; Mary E. Greenfield administratrix of said Edwin T. Greenfield, deceased. Filed Nov. 2, 1918. Serial No. 260,801. 2 Claims. (Cl. 137—75.)



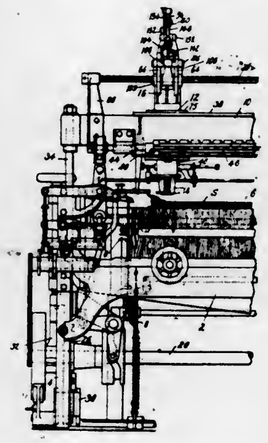
1. As an article of manufacture, a single piece pipe provided with a series of equally spaced protuberances extending the entire length of the pipe and adapted to coöperate at any point throughout its length with the threads of a coupling member.

1,344,033. HARVESTING IMPLEMENT. ALBERT R. GROUNDS, Hooker, Okla. Filed Feb. 12, 1919. Serial No. 276,577. 3 Claims. (Cl. 280—332.)



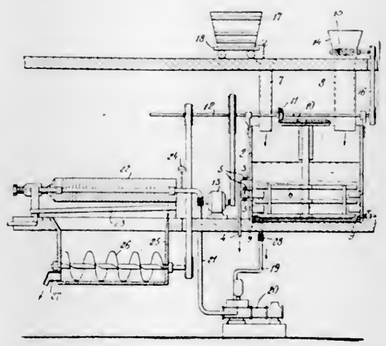
1. In combination with a harvester, a push beam connected to an axle of the harvester, a draft beam with relation to which the push beam oscillates, means for moving the push beam with relation to the draft beam, a bracket secured to the push beam, a brace rod extending from the bracket to the aforesaid axle, a link pivotally connected to the said bracket and to the draft beam, a push rod connected to the draft beam and to a portion of the truck of the harvester, means for oscillating the truck vertically, and means for holding the truck in normal position.

1,344,034. STACKING MECHANISM. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 14, 1917. Serial No. 191,494. 13 Claims. (Cl. 164—19.)



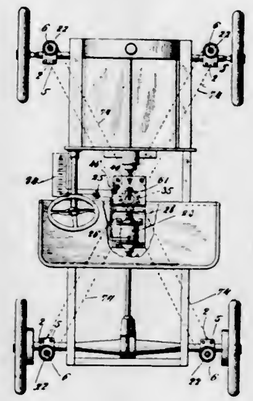
1. A stacking machine having, in combination, a die for cutting and holding in stack formation pieces of sheet material, and movable means acting upon said stacked pieces for materially modifying the plane of stacking while maintaining the pieces in stacked relation.

1,344,035. METHOD OF MAKING ARSENATE OF LEAD. OSCAR F. HEDENBURG and DAVID S. PRATT, Pittsburgh, Pa., assignors to The Toledo Rex Spray Company, Toledo, Ohio, a Corporation of Ohio. Filed July 1, 1919. Serial No. 307,986. 6 Claims. (Cl. 23—13.)



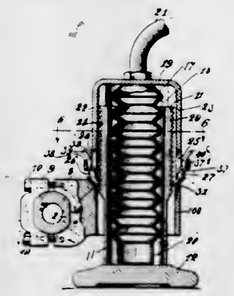
1. In the preparation of arsenate of lead, the improved method which comprises suspending finely-divided oxid in a liquid medium substantially free from electrolytes other than those resulting from the partial hydrolysis of the suspended lead oxid, and adding arsenic acid or oxid thereto in such a manner as to produce arsenate of lead in fine crystalline form substantially free from impurities and suitable for use as an insecticide.

1,344,036. AUTOMOBILE-JACK. SIDNEY HEYMANN, Far Rockaway, N. Y., assignor of one-half to Philip S. Heymann, Pittsburgh, Pa. Filed June 1, 1918. Serial No. 237,784. 7 Claims. (Cl. 254—86.)



1. In apparatus of the class described, the combination with the frame of a self-propelled vehicle, with a plurality of jacks, there being one jack provided for each wheel, a motor, independent connections between said motor and each of said jacks for positively raising or lowering said jacks, and selectively operated means common to said jacks for connecting said motor with any one of said jacks.

1,344,037. AUTOMOBILE-JACK. SIDNEY HEYMANN, Far Rockaway, N. Y., assignor of one-half to Philip S. Heymann, Pittsburgh, Pa. Filed July 27, 1918. Serial No. 246,953. 9 Claims. (Cl. 138—9.)

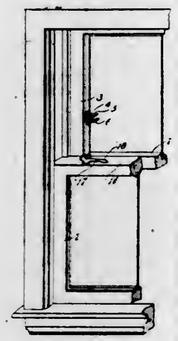


1. In apparatus of the class described, in combination, a casing, means for securing said casing to the axle of the vehicle, a plunger located in said casing, a foot carried by said plunger, and an expansible casing located within said plunger bearing at one end against said casing and at its other end against said foot and adapted to operate the plunger.

1,344,038. WINDOW-SASH-LOCKING DEVICE. CHARLES M. JACOBS, Longmeadow, Mass. Nov. 4, 1919. Serial No. 335,728. 3 Claims. (Cl. 292—209.)

1. In a device for the purpose described, comprising a member substantially U-shaped and having plates spaced

from each other and designed for attachment to one of the upright side rails of the upper sash of a window and the open or entrance end of the spaced plates of the member extending in a direction toward the opposite up-



right side rail, a second member adapted to be pivotally attached to the mid-rail of the lower sash and having an extension for entering the open end of said member, which is secured to the upper sash, and interlocking snap devices between the plates and the second member.

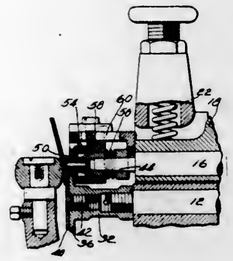
1,344,039. POURING-SPOUT LID AND STRAINER. OLE E. JENSON, Roseberg, Alberta, Canada. Filed June 28, 1918. Serial No. 242,404. 3 Claims. (Cl. 53—3.)



1. The herein described attachment for the pouring spout of a coffee pot or the like, the same comprising a plate substantially of diamond shape with its forward angle truncated and its side angles notched, bent on a line intersecting said notches so that its forward section overlies the spout of the pot and its remaining section overlies the inlet of said spout with its notches engaging the rim of the pot, said inner section being perforated, the side edges of said forward section having depending flanges for engaging the bead around the top of the spout.

1,344,040. [WITHDRAWN.]

1,344,041. MACHINE FOR OPERATING ON SOLES. ALBERT E. JOHNSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 26, 1918. Serial No. 224,707. 10 Claims. (Cl. 12—30.)



5. A machine for turning up a lip on a sole having, in combination, a pair of rolls to engage opposite sides of the lip, a gage to limit the height of the lip engaged between the rolls, and means to permit a yielding movement of the gage longitudinally of the rolls.

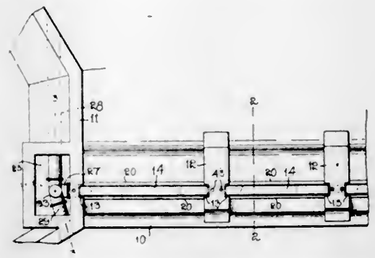
10. In a machine for crimping the lip of an insole, a pair of lip engaging rolls having teeth constructed to engage the lip therebetween and bend its free margin into a crimp leaving its base free from crimping pressure.

1,344,042. SPARK-GAP INDICATOR. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed Aug. 16, 1919. Serial No. 318,025. 9 Claims. (Cl. 175—183.)



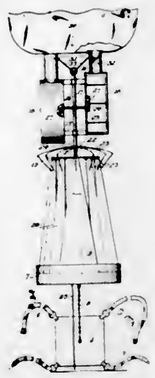
1. A high tension alternating current transmission line provided with insulators for supporting the line, said insulators having permanent spark gaps each set to remain silent under normal conditions of transmission and to sensibly respond to a lessening of the insulating qualities of the isulators as a whole.

1,344,043. AUTOMATIC GATE-OPERATING MEANS FOR DAMS. JOEL DE WITTE JUSTIN, Badin, N. C. Filed July 20, 1918. Serial No. 245,841. 10 Claims. (Cl. 61—28.)



1. In a dam, a spillway gate urged to a discharge position by gravity, a water pressure chamber so connected to the gate that the pressure of water therein urges the gates to its normal position, and a valve operated automatically by an abnormal increase of pressure of head water to relieve the pressure of water within the water chamber to thereby permit the gate to shift to a discharge position.

1,344,044. PARACHUTE. ALBERT KAMINSKI, Pittsburgh, Pa., assignor of one-half to Andrew A. Gmys, Pittsburgh, Pa. Filed Dec. 17, 1919. Serial No. 345,459. 6 Claims. (Cl. 244—21.)



1. A parachute including a propeller having wings foldable downwardly to an inoperative position, means slidably connected to the propeller adapted when in one position to engage the free ends of the propeller blades and retain the same inoperatively disposed and movable to a position to release the blades, means to automatically raise the blades to a substantially horizontal operative position when released, and means to rotate said propeller.

1,344,045. HINGED RULING-PEN. FRED WILLIAM KLUEVER, Chicago, Ill., assignor to The C. F. Pease Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1919. Serial No. 296,081. 1 Claim. (Cl. 120—109.5.)

A ruling pen of the character described comprising a handle, a relatively stationary blade having a base provided with a shank, a sleeve adapted to connect said shank and said handle, a swinging blade pivotally connected with the stationary blade and provided with a base having angularly arranged faces, a bore formed in said shank, a plunger mounted within said bore and adapted to contact said faces, and means to express said plunger to contact said faces comprising, a longitudinally extending opening formed in said handle a bore formed in said



sleeve a plunger mounted within said sleeve and contacting said first named plunger, and a spring within the opening of said handle and engaging said second named plunger.

1,344,046. COMBINATION-TOOL. OLUF LEE, Rolette, N. D. Filed Jan. 27, 1917. Serial No. 144,897. 1 Claim. (Cl. 7—3.)

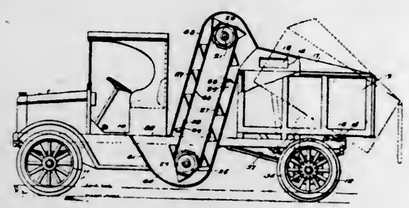


A combination tool of the character described comprising a fixed handle, a head carried at one end of said fixed handle and having in one side thereof a threaded socket with its axis arranged at substantially right angles to the direction of length of the fixed handle, a fixed jaw, a threaded shank on the fixed jaw removably screwed into said threaded socket on the head, means passing through the head and entering said socket for engaging with the shank whereby to lock the latter from turning, a movable jaw coöperating with and pivoted on said fixed jaw, and a movable handle on the movable jaw extending substantially parallel with said fixed handle whereby said handles may be squeezed together in a single hand of the operator to swing said movable jaw closed against the fixed jaw.

1,344,047. ASH-TRUCK. CHARLES E. LE PAGE, Brooklyn, N. Y. Filed May 9, 1918. Serial No. 233,500. 2 Claims. (Cl. 214—67.)

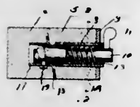
2. In an ash truck, a vehicle frame, a dumping body carried by said frame, an inclined elevator comprising a superstructure carried by the frame, cross shafts carried by said superstructure and frame, sprocket wheels mount-

ed on said cross shafts outside of said frame, endless chains engaging said sprocket wheels, buckets carried by



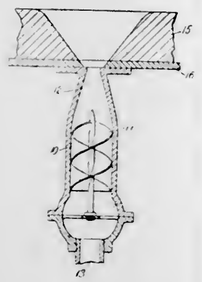
said chains, a receiving compartment in which the lower end of said elevator operates, interchangeable gears for operating the elevator and dumping the body.

1,344,048. SASH-LOCK. CHARLES LOMBARDO, Waterford, N. J. Filed July 16, 1918. Serial No. 245,157. 1 Claim. (Cl. 292—61.)



A lock of the class described comprising a keeper adapted for securement in a member to be locked, a lug projecting from the inner wall of said keeper, a sleeve adapted for securement in a coöperating member to be locked and provided with a spiral slot having extensions at its ends disposed in planes at right angles to the axis of the sleeve, a bolt rotatably and slidably mounted in the sleeve and provided adjacent one end with a spiral groove for receiving the lug of the keeper, and a pin on the bolt engaged in said spiral slot and movable into its extensions at the extreme positions of said bolt.

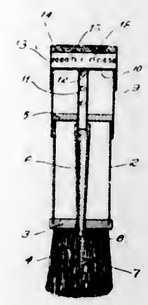
1,344,049. METHOD OF PRODUCING HEAT. CHARLES E. LUCKE, New York, N. Y. Filed Sept. 11, 1915, Serial No. 50,189. Renewed Aug. 14, 1919. Serial No. 317,586. 6 Claims. (Cl. 158—117.5.)



1. The method of burning explosive gaseous mixtures, which consists in causing the mixture to flow with an initial velocity greater than the rate of propagation of inflammation of the mixture in the form of a rapidly spreading free jet, whereby the flow velocity is rapidly reduced, and burning the mixture where the flow velocity equals the rate of propagation of inflammation of the mixture.

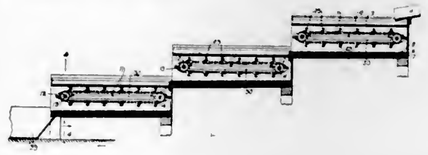
1,344,050. SHAVING-BRUSH. THOMAS MCMONAGLE, Bath, Me. Filed July 2, 1919. Serial No. 308,200. 2 Claims. (Cl. 15—50.)

1. In a shaving brush, a flexible cylindrical member, a brush carried by one extremity thereof, a water receptacle supported at the other end of the flexible resilient cylindrical member, means for providing communication between the water receptacle and brush, a flexible washer



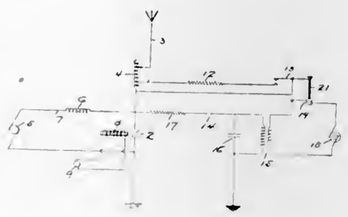
closing the last named end of the cylindrical member, whereby movement of the side walls of the flexible cylindrical member causes a movement of the washer to force fluid to flow to the brush.

1,344,051. CONCENTRATOR. ALFRED R. MACKIE, Lander, Wyo. Filed July 10, 1919. Serial No. 309,804. 5 Claims. (Cl. 83—81.)



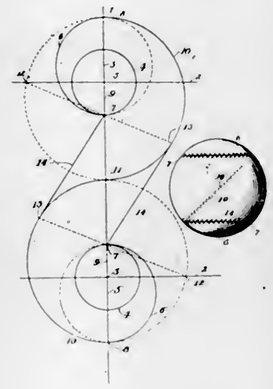
1. A concentrator comprising a box, having a concentrating surface in the bottom thereof, endless chains in the box, couplings on the chains, riffles secured to the couplings and connecting the chains, said couplings having a plurality of grooves in their inner faces at an angle to each other for the reception of the ends of the riffles, devices securing the riffles in certain of said grooves, and means for causing the movement of the said chains to move the riffles in the box.

1,344,052. RADIOTELEGRAPHY. ROLAND G. MARX, Palo Alto, and LEONARD F. FULLER, San Francisco, Calif., assignors to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Aug. 13, 1917. Serial No. 185,907. 9 Claims. (Cl. 250—19.)



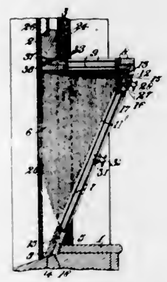
1. An arc system for radio signaling, comprising a current supply and antenna circuit connected to an arc and means for appreciably increasing the resistance of the antenna circuit whereby the current in the antenna is reduced below signaling value.

1,344,053. GEOMETRIC FIGURE. EMMA THORNTON MILLER, San Antonio, Tex. Filed Feb. 11, 1919. Serial No. 276,438. 4 Claims. (Cl. 46—4.)



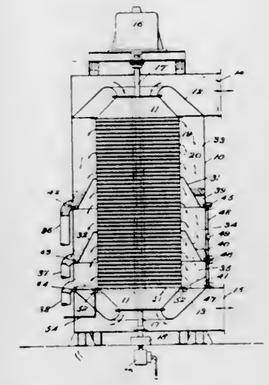
1. A blank including an intermediate portion having straight parallel edges, and including oppositely disposed end portions having curved edges, the edge of each end being formed on the arcs of circles of different diameters, the said end portions being symmetrical with respect to each other.

1,344,054. VENTILATING WINDOW-SECTION AND SCREEN. RALPH MILLER and WILLIAM E. TURNEY, San Francisco, Calif. Filed Apr. 10, 1919. Serial No. 289,132. 1 Claim. (Cl. 98—31.)



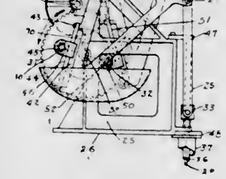
In a ventilating screen and window section, the combination of triangular end frames, window and screen frames connected to the sides, extending into the room, respectively of each end frame and extending in planes at right angles to said end frame, glass and wire screens contained in the respective frames longitudinally extending sides of one of said frames so connected having under-cut grooves, and longitudinal sides of the other frame so connected, having under-cut ribs slidable in said grooves, flexible strips secured to the free ends of the frames so connected and extending into contact with the glass and wire screen respectively of the opposite frame so connected, the rail of the screen frame of the outer section, remote from the window frame thereof, having an upper surface sloping downward to its outer edge and the rail of the screen frame of the inner section, slidable in contact therewith, having a longitudinally extending shoulder against which said first-named rail can abut and sloping downward from said shoulder to its free edge.

1,344,055. DUST-SEPARATOR. HUMPHREYS MILLIKEN, Tenafly, N. J., assignor of one-half to Joseph B. Taylor, New York, N. Y. Filed Mar. 1, 1919. Serial No. 279,930. 14 Claims. (Cl. 233—20.)



1. In a centrifugal dust separator, a rotating member having substantially radial discharge passages and a plurality of separating chambers opening into each passage.

1,344,056. PUMP-OPERATING MECHANISM. THEODORE RAY MINERT, Milwaukee, Wis. Filed Feb. 24, 1919. Serial No. 278,829. 6 Claims. (Cl. 103—82.)

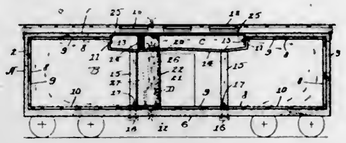


1. Pumping apparatus, comprising, in combination, a pair of plunger pump shafts to be reciprocated successively, a crank shaft journaled to revolve, having a pair of diametrically arranged crank pins, rocking bell cranks arranged on an axis to swing and reciprocate successively, one arm of each crank being linked to one of said pump shafts and the remaining arms bearing on said crank at points diametrically opposite, said bell cranks and crank pins being arranged so that two tangents drawn from said axis to opposite sides of the crank circle, divide the crank circle into substantially two unequal portions, whereby the stroke of each pump shaft in one direction is produced by more than a half revolution of the crank shaft, and in the opposite direction by less than half a revolution of the crank shaft, to pump a continuous stream.

1,344,057. AIR-CIRCULATING APPARATUS FOR CARS. CHARLES A. MOORE, St. Paul, Minn. Filed Apr. 4, 1914. Serial No. 829,509. Renewed Nov. 7, 1919. Serial No. 336,473. 3 Claims. (Cl. 257—7.)

1. A body structure forming a provision chamber, a draft duct forming a communication between the outside atmosphere near the upper portion of said body structure and the lower portion of said chamber, and a second draft duct forming a communication between the outside at-

mosphere near the lower portion of said body structure and the upper portion of said chamber; whereby pure outside air is positively circulated in either upward or

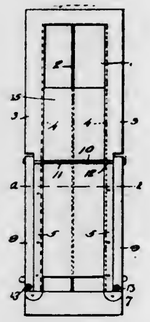


downward direction completely through said chamber when said ducts are influenced respectively either by a heating or cooling medium.

1,344,058. PLASTIC COMPOSITION. ANTON L. V. NILSSON, Tularosa, N. Mex. Filed June 24, 1918. Serial No. 241,641. 6 Claims. (Cl. 106—4.)

1. The plastic composition which comprises calcined volcanic ash, crushed rock, water, alum and fatty material.

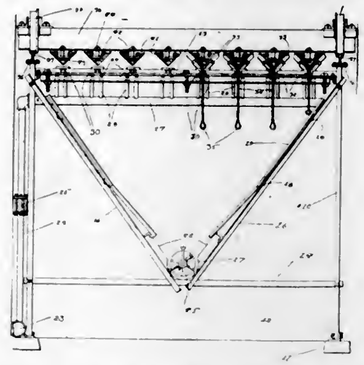
1,344,059. TIME-CARD-CLIPPING MACHINE. GEORGE WILLIAM ODELL, Montreal, Quebec, Canada. Filed Aug. 26, 1914, Serial No. 858,591. Renewed Nov. 19, 1919. Serial No. 339,051. 1 Claim. (Cl. 234—43.)



In a time card clipping device, a channeled body member forming a bed and having undercut flanges forming on the top thereof level card surfaces and slotted intermediately in the outer sides for approximately one half their length, forming cutting edges in said slotted portion, a pair of knives, one at each side, in said slots and coacting with said cutting edges and spring-held to their upper positions and operable independently, a plate sliding in said channel and shaped to fill said undercuts and in cross section extending above said card surfaces and forming an adjusting abutment for the end of a card laid on said card surfaces and clock gear mechanism for operating said sliding plate.

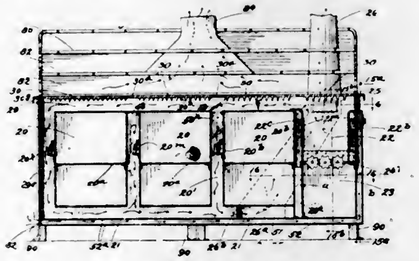
1,344,060. APPARATUS FOR PRODUCING CARBON BLACK. FRANK E. PATERSON, Clarksburg, W. Va. Filed Nov. 21, 1919. Serial No. 339,716. 5 Claims. (Cl 134—61.)

3. A machine or apparatus for producing carbon black comprising a supporting frame, a supply pipe for natural gas along the base of the same, risers extending from said pipe, a hopper supported in the frame and including inclined sides having a trough at the lower end thereof, a conveyer in said trough, transverse pipes leading from said risers across the hopper near the top thereof, longitudinal burners having connection with said transverse pipes and supported in the frame for vertical adjustment, scraper blades also supported by the frame, handles for said blades, outwardly and upwardly branching plates above the burners with which the flame is adapted to con-
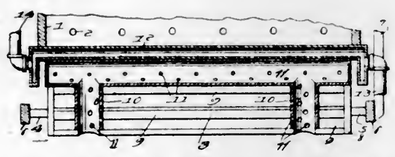


tact for the formation of carbon black and means for moving the plates relative to the blades to remove the carbon black from said plates and dischage the same into the hopper and conveyer.

1,344,061. RANGE. ROBERT L. POE, Chicago, Ill., assignor to The Poe Range Company, Chicago, Ill., a Corporation of Delaware. Filed May 19, 1916. Serial No. 98,532. 9 Claims. (Cl. 126—1.)



1. In combination, a range comprising an oven, a fire box, the side walls of said fire box being hollow and provided with means for directing air into said fire box between the surface of the fuel therein and the top of said box, and an air heating supply duct adjacent the range bottom and below said oven and leading to said fire box wall, whereby air drawn through said duct will be heated prior to its introduction into said fire box.

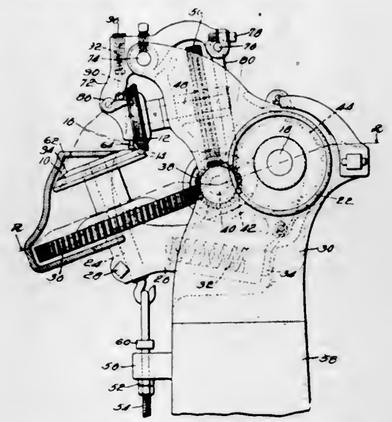
1,344,062. GRATE. WILLIAM J. RATEKIN, Oakes, N. D. Filed Mar. 1, 1920. Serial No. 362,191. 4 Claims. (Cl. 126—15.)



1. As a new article of manufacture, a grate comprising a plurality of grate bars spaced in super-imposed positions, overlapping and relatively graduated in horizontal directions for supporting the fire bed and at the same time permitting the ashes to pass between them, a tubular arch

carried by the lowermost bars and provided with openings to permit a circulation of air into the interior of the fire bed.

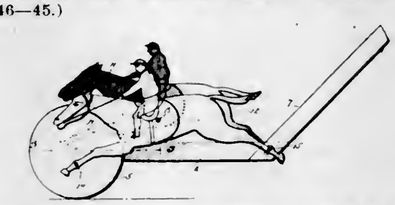
1,344,063. MACHINE FOR OPERATING ON SOLES. THOMAS H. SEELY, Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 19, 1918. Serial No. 223,373. 15 Claims. (Cl. 12—20.)



1. In a machine for operating upon lipped soles, a pair of frusto-conical feed rolls having their apexes substantially coinciding arranged to grip and feed the feather between their conical surfaces and having their smaller faces directed toward each other and the center of the sole.

10. A machine for operating on lipped soles having, in combination, a work supporting roll mounted on a pivoted arm, a feed roll, a lip engaging tool mounted to oscillate about a fixed point, a shaft carried by the arm and provided with a single actuating means for the rolls, an eccentric secured to the shaft and operatively connected with the tool, and means for moving the arm about its pivot to depress the work supporting roll and move the tool away from the feed roll.

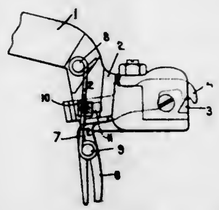
1,344,064. TOY. JAMES J. SOULLIARD, Chicago, Ill. Filed Sept. 19, 1919. Serial No. 324,901. 2 Claims. (Cl. 46—45.)



1. A toy comprising a pair of ground wheels, a support for the wheels on opposite sides of which the wheels are located, a figure on each side of the support and alongside the respective wheels, each figure having pivotally connected front and rear sections, connections between the wheels and the front sections of the respective figures, and connections between the support and the rear sections of the respective figures.

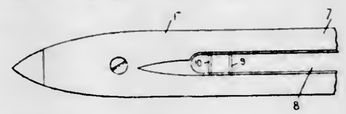
1,344,065. THREAD-CUTTING TEMPLE FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept 25, 1919. Serial No. 326,210. 1 Claim. (Cl. 139—85.)

A thread cutting temple for looms comprising a body presenting a guideway, a slidably mounted cutter backwardly and forwardly movable in the guideway, a spring connecting the body and cutter and acting to move the cutter in one direction, and a screw connecting the body and cutter, said screw being secured in one of said parts



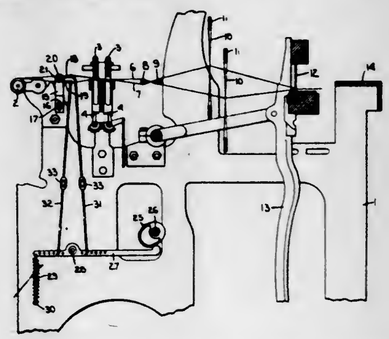
and engaging a longitudinal recess in the other of said parts whereby the movement of the cutter is permitted while its separation from the body is prevented in case of the breakage or disconnection of the spring.

1,344,066. SHUTTLE FOR SIDE-MOTION-FEELER LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 21, 1920. Serial No. 360,320. 4 Claims. (Cl. 139—90.)



1. A shuttle for use in side motion feeler looms provided with a filling carrier recess and means to clamp and hold the filling carrier therein, one wall of said shuttle having a feeler slot to permit the passage of the feeler therethrough, means located within said feeler slot out of the normal field of operation of the feeler adapted to engage the feeler, if the shuttle is longitudinally misplaced at the time of feeling and prevent premature actuation of said feeler.

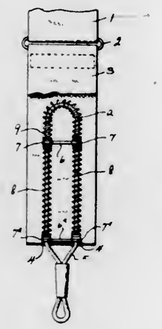
1,344,067. WARP-OPENING MECHANISM FOR LOOMS. JESSE TOWERS, Cornwall, Ontario, Canada, assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 13, 1919. Serial No. 303,954. 1 Claim. (Cl. 139—75.)



A loom comprising a frame, a pair of flat members extending between the warp sheets, each member being pivotally mounted on the frame to rock about one of its longitudinal edges, a lever fulcrumed on the frame, means for rocking the lever, a pair of longitudinally adjustable rods pivoted at their upper ends respectively to said flat members and at their lower ends respectively and adjustably

connected to said lever at opposite sides of the fulcrum thereof whereby the extent of the rocking movement of the flat members may be readily adjusted.

1,344,068. SUPPORTER. ROBERT EMIL UHL, Greenfield, Ohio. Filed Jan. 24, 1920. Serial No. 353,644. 2 Claims. (Cl. 267—70.)

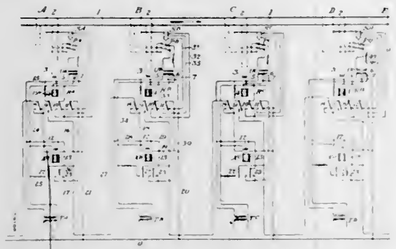


1. A device of the character described comprising, in combination, a pocket, a flexible element returned on itself presenting two strands movable through the bottom of the pocket, a separating member within the pocket and through which the strands of the flexible member are slidably disposed, and separate springs sleeved upon the strands of the flexible member and interposed between the separating member and the bottom of the pocket.

1,344,069. PROCESS OF PREPARING GREEN BEANS FOR CANNING. EDWARD J. VAUDREUIL, Eau Claire, Wis. Filed July 29, 1918. Serial No. 247,114. 4 Claims. (Cl. 146—11.)

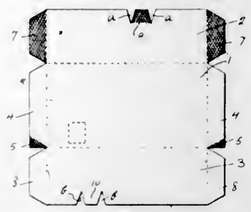
1. The process of preparing green beans for canning which consists in simultaneously cutting the complete unsnipped bean pods into pieces and producing an intermingled mass of intermediate pieces and tip-end pieces, and thereafter automatically separating from the mass of cut pieces all of said tip-end pieces.

1,344,070. RAILWAY SIGNALING SYSTEM. HERBERT A. WALLACE, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed January 18, 1918. Serial No. 212,382. 5 Claims. (Cl. 246—39.)



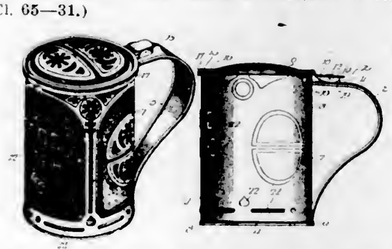
3. A normal danger signaling system comprising a plurality of block sections, a track relay for each section responsive to reversals of current, means for supplying current to the rails of each section in one direction or the other, an auxiliary relay for each section responsive to reversals of current, means controlled by each track relay for energizing the auxiliary relay for the section in advance in one direction and means controlled by each auxiliary relay when energized in such direction for energizing the auxiliary relay for the next section in advance in the other direction and signals for the sections controlled by said track relays and by said auxiliary relays.

1,344,071. ENVELOP. EDWARD L. WEBSTER, Wheatland, Wyo. Filed Mar. 22, 1919. Serial No. 284,260. 2 Claims. (Cl. 229—73.)



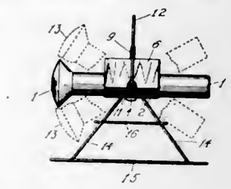
1. A reversible envelop comprising a blank consisting of a body flap, side flaps, end flaps carried by the body flaps and the side flaps, the end flaps of the side flaps having gummed surfaces, the gummed surfaces of the end flaps of one side flap being reverse to the gummed surfaces of the end flaps of the second side flap, the extremities of the end flaps of the body flap also having gummed surfaces, the gummed surfaces at the extremities of each end flap of the body flaps being on reverse sides, the outer longitudinal marginal portions of each of the side flaps being provided with longitudinally spaced recesses affording therebetween a sealing tongue, the surface of each of the sealing tongues being gummed, the gummed surface of one tongue being reverse to the gummed surface of the second tongue.

1,344,072. STEIN. ARTHUR G. WIEDMANN, Kansas City, Mo. Filed Oct. 7, 1914. Serial No. 865,410. 2 Claims. (Cl. 65—31.)



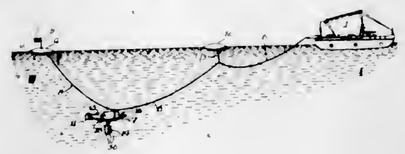
1. A package for cigars and other purposes, comprising a sheet metal body having a beaded cylindrical edge around its mouth; a sheet metal cover having a dome-shaped center and an upstanding bent edge embracing within and without said beaded edge of the body and having an integral extended thumb-piece; an outwardly extended handle united with the body; and a hinge pin pivotally connecting said thumb-piece with the handle.

1,344,073. FLASH-LIGHT HOLDER. THEODOSIUS ALBERT WILLIAMS, Battle Ground, Wash. Filed Sept. 11, 1919. Serial No. 323,193. 3 Claims. (Cl. 240—52.)



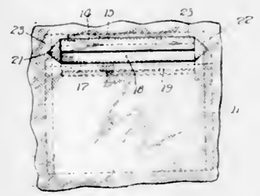
2. In a flash-light holder, the combination of a rectangular metal frame open at the front and rear, a slide within the frame adapted to hold a flash-light in the frame, pivots at both sides of the metal frame, and a bail fastened in the pivots to suspend the frame portably.

1,344,074. SUBMARINE DETECTING AND DESTROYING APPARATUS. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed May 18, 1917. Serial No. 169,547. 2 Claims. (Cl. 102—3.)



1. An apparatus for locating submarines composed of a series of submerged vessels separated from each other and supported by floats, each vessel carrying a contact mine and indicator devices, communicating cables connecting the indicating devices with a main trawler ship, means for moving the vessels with the indicating devices to and from each other under control from the main ship.

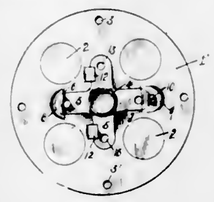
1,344,075. POCKET FOR GARMENTS. HERMAN BROWN, Chicago, Ill. Filed Aug. 23, 1918. Serial No. 251,101. 1 Claim. (Cl. 2—134.)



In combination, a garment having a pocket opening therein formed by a horizontal cut in said garment and vertically extending cuts at the ends of said horizontal cut, an inner reinforcing member secured to the face of the garment and extending above and below the inner marginal edge of the pocket opening, an outer reinforcing member folded over the outer marginal edge of the pocket opening, the ends of both of said reinforcing members extending through the vertically extending cuts in said garment and being stitched together at their ends and also to the garment, and a bag secured to said reinforcing members.

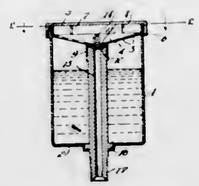
1,344,076. [WITHDRAWN.]

1,344,077. STUD-ATTACHING MEANS FOR ELECTRIC OUTLET MEMBERS. CHARLES N. DETWILER, Toledo, Ohio. Filed Mar. 24, 1919. Serial No. 284,790. 7 Claims. (Cl. 240—85.)



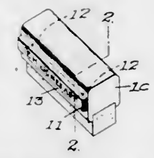
1. An electric outlet box or plate having opposed sockets in its outer side with one of greater depth than the other, and a fixture stud fitting against said side and having opposed feet removably inserted into said sockets and held by the walls thereof to said member.

1,344,078. AUTOMATIC OILER. RAYMOND G. FIEGE, Cleveland, Ohio. Filed Jan. 5, 1920. Serial No. 349,432. 1 Claim. (Cl. 184—69.)



An oil cup provided with an outlet pipe therein open at the top, a conical perforated disk in the upper part of the cup and provided with a plurality of openings about its apex, through which oil may flow into said pipe, and a cap pivoted to the disk and fitting upon the upper end of the pipe and having an opening with which any one of said openings in the disk may be registered.

1,344,079. RUBBER-STAMP ATTACHMENT. FREDERICK E. FROST, Worcester, Mass. Filed Feb. 19, 1920. Serial No. 359,876. 2 Claims. (Cl. 40—10.)



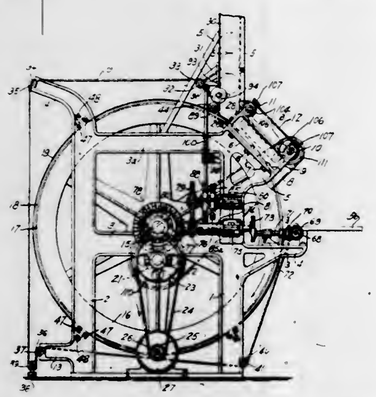
1. An indicating attachment for a rubber stamp having a body portion, comprising headed elements fixed in said body portion with the heads spaced therefrom, a strip of sheet material having a designation thereon, and a flattened slotted transparent covering tube inclosing said strip and directly secured to the body portion by said headed elements.

1,344,080. METHOD OF LABELING CONTAINERS. MAURICE GALIBERT, New York, N. Y. Filed Nov. 5, 1918. Serial No. 261,225. 4 Claims. (Cl. 216—62.)



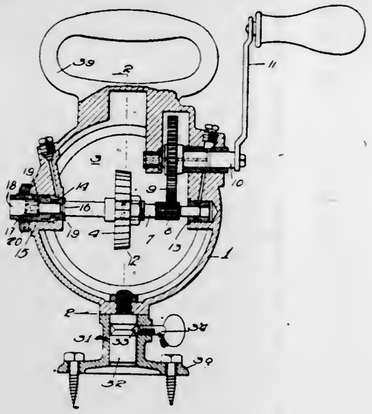
1. The method of applying temperable labels to containers having enlarged ends, which consists in making two applications of moist adhesive, one to marginal portions and the other to body portions of the several labels, to be applied along lines extending lengthwise of said labels such that at a definite time after said two applications have been made to a given label marginal portions of said given label will be more highly tempered than the body portions thereof and at said time applying said label under pressure to one of said containers so that the more highly tempered portions of the label cover the enlarged portions of the container.

1,344,081. LABELING-MACHINE. MAURICE GALIBERT, New York, N. Y. Filed Jan. 17, 1919, Serial No. 271,557. Renewed Dec. 17, 1919. Serial No. 345,584. 22 Claims. (Cl. 216—9.)



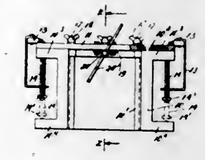
5. The combination of a stationary container hopper; a hopper gate and automatic gate opening and closing mechanism; a label-applying mechanism; and an intermittent label-feed mechanism; a revoluble drum; an endless label-supporting belt having an inner run partially inclosing the periphery of the drum; and a label-gumming means; the drum, belt, and label-gumming means being continuously operable; and the intermittent feeding mechanism and automatic gate opening and closing mechanism each comprising timing members whereby their operations are timable.

1,344,082. PORTABLE SIGNAL DEVICE. JOHN E. GENN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 13, 1918. Serial No. 266,527. 6 Claims. (Cl. 116—144.)



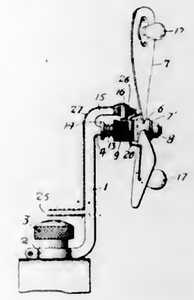
1. In a signal mechanism comprising a pair of diaphragms, each provided with a contact button, a toothed wheel mounted to rotate between said diaphragms with its corrugations in continuous operative contact with both of said buttons, said parts being disposed for contact of each button with the crest of the projecting tooth of the wheel when the other button is registered with the bottom of a depression in the wheel and for substantial maintenance of contact of the button with the corrugations throughout the upraise and depressions thereof.

1,344,083. TOOL FOR FACILITATING THE CASTING OF HUB-LINERS ON BEARING-BOXES FOR LOCOMOTIVES OR THE LIKE. CARL GUGGENBUEHLER, Newark, N. J. Filed June 6, 1919. Serial No. 302,216. 11 Claims. (Cl. 22—123.)



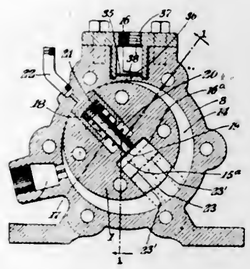
1. The combination with a bearing box for locomotives or the like, of a device for casting a hub liner thereon, and comprising a mold capable of being removably attached to the hub end of said box to receive the molten metal and having a movable core adjustable relative to said mold.

1,344,084. DISPLAY DEVICE. JAMES K. HACKETT, New York, N. Y. Filed Aug. 11, 1917. Serial No. 185,723. 5 Claims. (Cl. 240—9.)



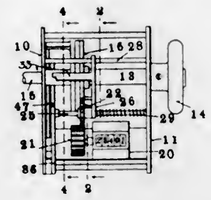
1. In a lighting device, a blade mounted for rotation about an axis and having a portion thereof oblique to said axis, a light on said blade, a circuit for said light and means for closing said circuit at intervals during the rotation of said blade, and comprising a commutator and a brush member, one of said members being carried by said blade and the other being stationary, said commutator member comprising a plurality of electrically connected parts of equal width spaced by insulating members.

1,344,085. ROTARY MECHANISM. ALFRED E. HORMAN, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,494. 11 Claims. (Cl. 103—44.)



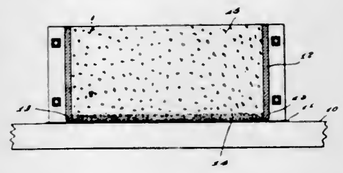
1. The combination of a casing, a rotor therein comprising a body portion and a wing movable relatively thereto and engaging the interior of the casing, and yielding means connecting said body portion and wing tending to move said wing away from the wall of said casing.

1,344,086. COIN-CONTROLLED MECHANISM. GILBERT L. HUFF, Holdenville, Okla. Filed May 6, 1918. Serial No. 232,859. 7 Claims. (Cl. 235—100.)



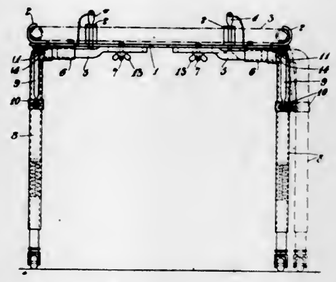
3. In a coin controlled mechanism, the combination with an operating shaft of a toothed member operated from said shaft, a register, a laterally movable gear between said toothed member and register, said toothed member being provided with a cam for releasing said gear and returning same to normal position, and a coin actuated stop for limiting the movement of said gear.

1,344,087. ARTIFICIAL-STONE MAKING. ROBERT I. KLINE, Indianapolis, Ind. Filed Mar. 8, 1920. Serial No. 364,238. 4 Claims. (Cl. 25—155.)



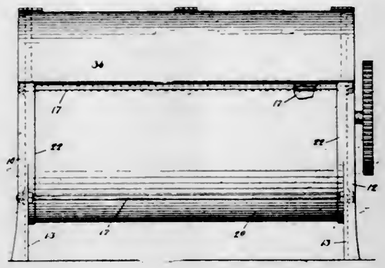
1. In a molding device for making artificial stone, the combination of a face plate, a mold coöperating with said face plate and having beveled edges with the acute angles toward the inner faces of the mold, and a flexible facing sheet of paraffined paper of greater length and breadth than the mold and arranged to be located between the mold and the face plate with the beveled edges of the mold resting upon it, so that when the stone has been molded in the mold the facing sheet may be peeled off while the stone is still in the mold.

1,344,088. STRETCHER, SICK-BED, AND THE LIKE. MATTIS LUNDROM, Örebro, Sweden. Filed Sept. 11, 1918. Serial No. 253,655. 4 Claims. (Cl. 5—70.)



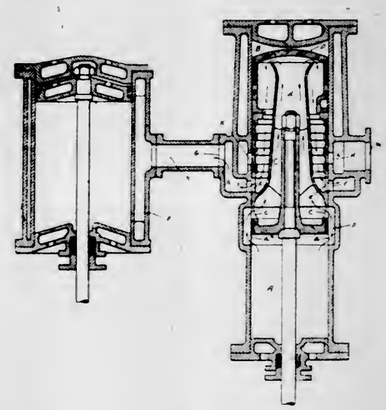
1. The combination with a stretcher having a rigid frame of legs removably secured to said frame and adjustable relatively thereto toward and away from one another in the transverse direction of the stretcher.

1,344,089. WASHING-MACHINE. EDWARD F. POLAND, Boston, Mass. Filed Jan. 26, 1917. Serial No. 144,718. 4 Claims. (Cl. 220—67.)



1. In a washing machine, the combination of a shell, a pair of spaced-apart side-plates having grooves in their adjacent sides, a plurality of supporting members extended between said plates rigidly connecting them together at their margins to form a rigid frame structure and to maintain said side-plates in spaced-apart relation independently of said shell, said shell having its ends received in the grooves in said side-plates, and metallic packing arranged in the grooves with the ends of the shell on the outside of the receptacle, said shell and side-plates forming a water-containing receptacle.

1,344,090. MEANS FOR COOLING THE PISTONS OF INTERNAL-COMBUSTION ENGINES. WILHELM SCHMIDT, Cassel-Wilhelmshöhe, Germany, assignor, by mesne assignments, to Locomotive Superheater Company, a Corporation of Delaware. Filed Jan. 18, 1916. Serial No. 72,741. 3 Claims. (Cl. 60—14.)



1. In apparatus of the class described, the combination of a multi-stage steam engine, an internal combustion engine, and means to carry the exhaust steam from an upper stage cylinder into contact with heated portions of the internal combustion engine and thereafter to a lower stage steam cylinder.

1,344,091. TABLET-PRESS. BERN S. SCHOENKERMAN, Milwaukee, Wis. Filed Aug. 9, 1919. Serial No. 316,466. 3 Claims. (Cl. 107—18.)

1. A tablet press of the class described comprising a base, a removable bed plate, a die plate having an aperture therein, a plunger adapted to be passed into said aperture to compress materials disposed therein whereby to

form the same into a tablet, and a cup shaped bed plate adapted to be substituted for said first mentioned bed

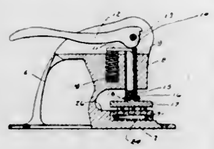
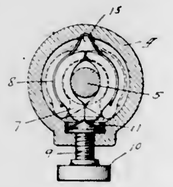


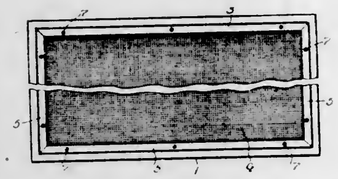
plate after the tablets have been formed whereby to receive the tablets and permit their ready removal from the aperture in the die plate.

1,344,092. ADJUSTABLE STOOL OR CHAIR. HARRY SHAW, Chicago, Ill. Filed Dec. 13, 1919. Serial No. 344,534. 5 Claims. (Cl. 155—94.)



2. In an adjustable stool or chair, a base including a vertical stem having a series of equivalent collars thereon, a seat-supporting sleeve slidable on the stem over the said collars and having the lower portion of its bore enlarged, a split collar disposed in the enlarged bore portion of the sleeve and having parts thereof coöperating to engage one of the collars on the stem, spring means for normally forcing the split collar parts into their said engagement, and retractible means carried by the sleeve and operable to spread the split collar parts out of their engagement.

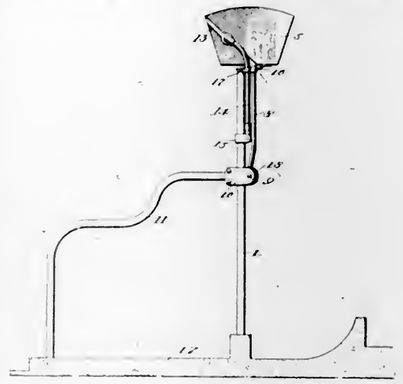
1,344,093. METAL-FRAME SCREEN. CHARLES A. SHOGREN, Chicago, Ill. Filed Nov. 27, 1918. Serial No. 264,296. 8 Claims. (156—14.)



8. A metal screen comprising a frame bent around a filler member leaving a shoulder exposed, a screen supported on said shoulder, and a removable member resting on said shoulder flush with the surface of said frame, said removable member clamping said screen against said shoulder and being secured to said exposed filler.

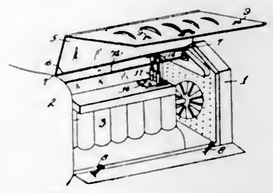
1,344,094. FEED-BOX. RAYMOND R. SICKLER, Wausau, Wis. Filed July 2, 1919. Serial No. 308,135. 3 Claims. (Cl. 119—27.)

1. A feed box for cattle held in stanchions comprising a pair of standards for each stanchion, a rail connected with the standards, an arm pivoted to each standard, each arm having an inwardly extending journal pin journaled upon the feed box, a link connecting the end of each box to the adjacent standard, and pivoted to the box and to the standard, and spring latches on the bottom of the box, the rail having lugs for engagement by the latches to hold the box in elevated position, and springs normally acting to



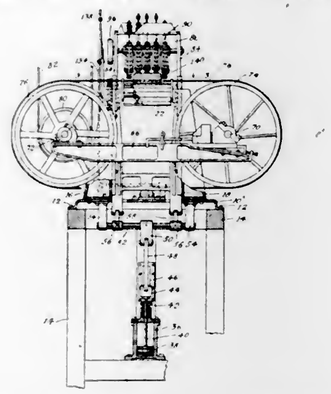
swing the box upwardly, the links and the swinging arms being arranged to engage when the box is swung downward to limit the downward movement thereof.

1,344,095. HOOD-SUPPORT FOR AUTOMOBILES. YARO SKALA, Cleveland, Ohio. Filed Apr. 24, 1919. Serial No. 292,517. 14 Claims. (Cl. 180—69.)



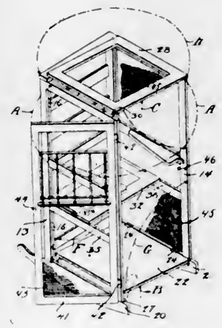
1. In a self-propelled vehicle, a radiator, a hood cover, and a support for said hood cover located rearwardly of and independent from said radiator and carried by the engine.

1,344,096. RESAWING-MACHINE. CHARLES B. SPRAGUE, Minneapolis, Minn., assignor to Diamond Iron Works, Minneapolis, Minn., a Corporation. Filed June 11, 1918. Serial No. 239,356. 7 Claims. (Cl. 143—5.)



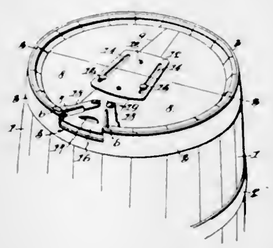
1. A re-sawing machine comprising a horizontal band-saw, means for lifting said saw by fluid pressure, and means for selectively controlling the position to which said saw is permitted to descend when the fluid pressure is relieved.

1,344,097. FOLDABLE SCREENED CHAIR. STEPHEN STRANSKY, Darby, Pa. Filed Nov. 19, 1919. Serial No. 339,032. 2 Claims. (Cl. 155—139.)



1. A foldable chair including side sections and rear sections hinged together; a seat hinged to one of said sections and having portions normally adapted to rest respectively on said side sections; a top section hinged to one of said sections and having pin interlocking portions with one of said side sections; and a base section hinged to one of said sections and having pin interlocking portions with another of said sections; substantially as described.

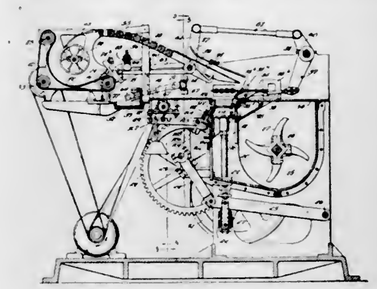
1,344,098. REMOVABLE BARREL-HEAD. JOHN CHARLES STREIBICH, Little Rock, Ark. Filed Feb. 9, 1920. Serial No. 357,467. 5 Claims. (Cl. 217—79.)



1. A barrel head comprising a plurality of sections, one of which constitutes a wedge, connections between the sections whereby as the wedge section is moved the other sections will be contracted or expanded according to the direction of movement of said wedge section, and a device carried by said wedge section for engaging the barrel to secure the several sections in the expanded barrel closing position.

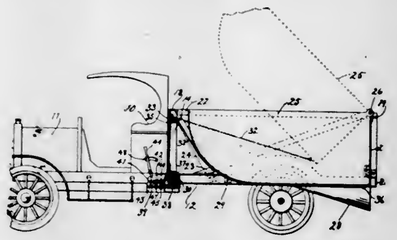
1,344,099. AUTOMATIC BRICK-MAKING MACHINE. DAVID J. STRICKLAND, Cleveland, Ohio, assignor to The Strickland Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1915. Serial No. 62,274. 34 Claims. (Cl. 25—1.)

2. In a brick machine, the combination with an upwardly movable piston, of a charging chamber in which said piston works, a die and platen in alinement with said piston, an inverted mold adapted to be moved between said die and platen, and means for moving said mold, means for trimming the clay from the lower face of the filled mold, means for receiving said filled and trimmed



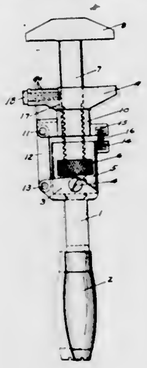
mold face downward, means operable upon said mold to cause the brick to be discharged by gravity, and means for elevating and reversing the mold so discharged.

1,344,100. DUMPING-TRUCK. ALFRED D. TAIT, Evanston, Ill. Filed Jan. 25, 1919. Serial No. 273,105. Renewed Nov. 6, 1919. Serial No. 336,230. 5 Claims. (Cl. 298—7.)



3. A dumping truck comprising a suitable framing and a body having an open end and being pivoted adjacent the upper portion of such end within the framing and a fixed header against which the open end of the body abuts when in carrying position, and means for swinging the body upon its pivot.

1,344,101. COMBINATION-WRENCH. EDWIN E. THOMAS, Portland, Oreg., assignor to H. O. Tenney, Portland, Oreg. Filed Jan. 16, 1917. Serial No. 142,657. 5 Claims. (Cl. 81—126.)



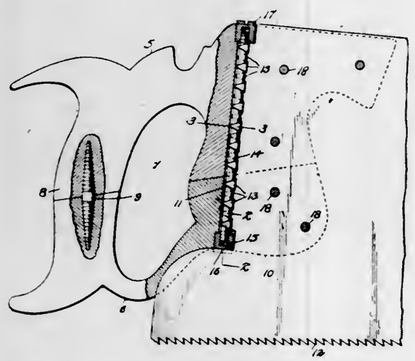
1. In a wrench of the character referred to, in combination, a handle, a movable combination jaw having a screw

stem, an operating nut therefor, a tilting combination jaw through which said screw stem passes, operating connections between said tilting jaw and said handle, whereby movement of the handle sidewise operates to tilt said tilting jaw relative to said movable jaw, and means for locking said tilting jaw against tilting movement.

1,344,102. METHOD OF MAKING AND TRANSPORTING SOLUTIONS. FREDERICK W. THOROLD, Toronto, Ontario, Canada. Filed May 29, 1918. Serial No. 237,333. 1 Claim. (Cl. 252.)

The method of making and transporting solutions which comprises, interposing a measured quantity of the substance to be dissolved in the path of a uni-directional flow of solvent under pressure, utilizing the pressure of the solvent to transport the substance in the form of a solution to a receptacle of measured capacity, and regulating the rate of flow of said solvent so that all of the substance shall have been transported to said receptacle when said receptacle is filled to its measured capacity with solution.

1,344,103. SAW-HANDLE. HENRY TOPPING, Ashley, Ill. Filed Oct. 4, 1919. Serial No. 328,422. 5 Claims. (Cl. 145—108.)



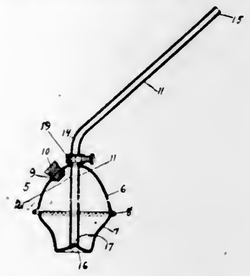
1. A saw handle having a saw blade receiving slot and an elongated enlarged socket extending along the inner end of the slot, a saw blade engaged in the slot and having a hollow enlargement in the socket and a holding device located longitudinally in the hollow enlargement.

2. A saw hande comprising sections located edge to edge, said handle having a saw blade receiving slot and an elongated enlarged socket extending along the inner end of the slot, the slot and socket extending into both sections, a saw blade engaged in the slot and having a hollow enlargement in the socket and a holding device located longitudinally in the hollow enlargement and extending into both sections of the blade.

5. A saw handle comprising sections of the thickness of the handle and located edge to edge, said handle having a hand-receiving opening formed partially in the different sections, and a hand grip in one side of the opening formed partially of the different sections, said handle furthermore having a saw blade receiving slot and a socket at the inner end of the slot, both located in the different sections, a saw blade in the slot having offset inwardly curved oppositely extending teeth located in the socket, and a bolt located longitudinally in the socket and extending between the teeth, said bolt having an inner head interlocked with the saw blade.

1,344,104. BUBBLE-BLOWER. CLAUDE U. TYRRELL, Chicago, Ill. Filed Mar. 21, 1918. Serial No. 223,828. 5 Claims. (Cl. 46—31.)

1. A bubble blower comprising in combination a container, provided with a perforation in the bottom thereof, a blow pipe projecting into and terminating against



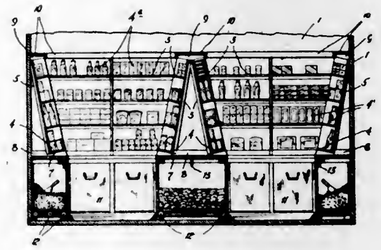
the surface of said bottom in register with a perforation in said bottom.

1,344,105. ART OF FORMING TUBES. WALTER N. VANCE, Chicago Heights, Ill., assignor to Durand Steel Locker Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1915. Serial No. 33,674. 4 Claims. (Cl. 153—22.)



1. The process of making closed sheet metal tubes of rectangular cross-section, which consists in forming all the longitudinal edges and deflecting one of the side walls to maintain the edges in separated relation, and subsequently returning said deflected wall to flat condition by the insertion of a pressure member between said edges and withdrawing said pressure member in a reversed direction laterally outwardly through said edges.

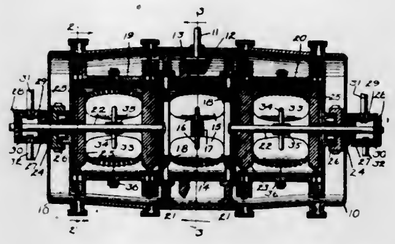
1,344,106. SHELVING. HERMAN A. WIEMAN, Dallas, Tex. Filed Mar. 19, 1920. Serial No. 367,137. 1 Claim. (Cl. 211—27.)



A store shelving comprising a frame in two sections and containing inclined shelves, said sections supported upon a base containing drawers and tilted backward and detachably connected together at their upper ends and a removable platform upon the top of the sections.

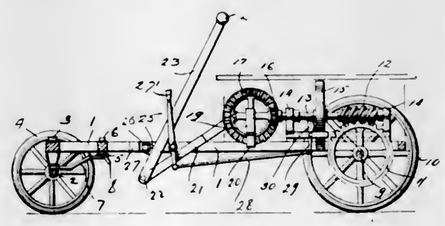
1,344,107. DIFFERENTIAL. GEORGE W. WILKIN, Grangeville, Idaho. Filed June 25, 1919. Serial No. 306,595. 7 Claims. (Cl. 74—99.)

1. In a differential for a four wheel drive, a main differential housing, differential gears carried thereby, a pair of side housings at opposite sides of the main housing, having gears engaged by the said differential gears, pairs of shafts journaled axially through portions of the said side housings, spaced gears secured upon the said



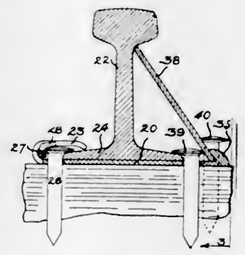
shafts within each side housing, differential gears carried by each of the side housings and engaging the said spaced gears thereof, and connections beyond each of the side housings independently geared to the shafts thereof.

1,344,108. SELF-PROPELLED VEHICLE. REUBEN MCNEIL WILLIS, Chanute, Kans., assignor of one-third to Gordon J. Willis and one-third to Anthony E. Willis, Chanute, Kans. Filed July 29, 1919. Serial No. 314,048. 4 Claims. (Cl. 208—34.)



3. A self propelled vehicle of the class described comprising a frame having a front axle provided with wheels, and a rear axle having wheels fixed thereto, a worm gear, a drive shaft equipped with a gear in mesh with said worm gear, and carrying a pinion and a fly wheel, a driving gear rotatably mounted and engageable with said pinion, means to impart rotary movement of said drive gear.

1,344,109. RAIL-BRACING-SPIKE RETAINER. GEORGE C. WORTMAN, Denver, Colo. Filed Mar. 1, 1919. Serial No. 280,138. 9 Claims. (Cl. 238—292.)

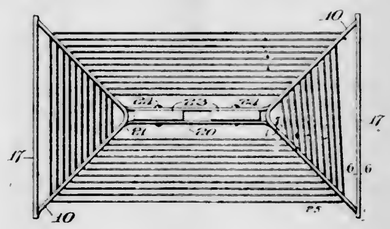


1. A rail spike retainer, comprising a base plate having spike holes adjacent the corners thereof, an overhanging lip on one edge of said plate and positioned between the spike holes adjacent said edge, and a key to fit in the

bend between the lip and the plate and having an overhanging part to engage the head of a spike in one of said holes to retain the same in position.

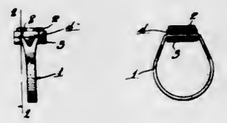
4. A rail spike retainer, comprising a base plate having spike holes adjacent the corners thereof, an undercut lug on the upper face of said plate at one edge thereof and adjacent certain of said spike holes, and a flat plate adapted to be slid into engagement with the under face of said lug at one edge and to engage at the other edge one of the under sides of the ball of a rail held on said plate, and to engage and hold spike heads in said spike holes when in said position.

1,344,110. HANGER. WALTER D. BANES, Philadelphia, Pa., assignor to General Pressed Metal Company, a Corporation of Pennsylvania. Filed Feb. 8, 1919. Serial No. 275,762. 3 Claims. (Cl. 206—51.)



1. In a hanger of the character described, the combination of two V-shaped members and connecting means thereof, said V-shaped members formed of channeled sheet metal provided with a curtain integral with and depending from one margin of the channel, said curtain formed into hooks between the two ends of each arm of the V.

1,344,111. JEWELRY-SETTING. BENNETT K. BENSON, Hatton, N. D. Filed Dec. 21, 1918. Serial No. 267,748. 4 Claims. (Cl. 63—15.)



1. A jewelry mounting comprising means for attaching the mounting to the person, the said means including a pair of spaced apart parallel retaining bars of predetermined length, a pair of connecting plates of a width equal to the length of the parallel portions of the said retaining bars, the proximate surfaces of the said plates being provided with complementary grooves, the said plates having their contacting surfaces secured together whereby the said complementary grooves form openings extending edgewise though the panel formed by the said plates, the said retaining bars being mounted in the said openings and relatively connected exteriorly of said opening to prevent movement of said plate on said bar.

1,344,112. MOP. ELMER E. BESSETT, Waterloo, Quebec, Canada. Filed Nov. 7, 1919. Serial No. 336,364. 1 Claim. (Cl. 15—56.)

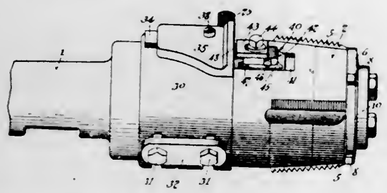
A mop comprising a head having transverse holes and clusters consisting of bunches of absorbent strands doubled at their midlengths which are drawn through the

holes forming loops, the free ends of the bunches being passed through the loops, the free ends being secured



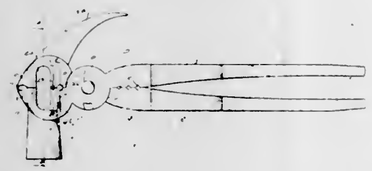
by drawing the loops against the head, thus forming protecting pads on opposite sides of the head and a protecting pad below the lower edge of the head.

1,344,113. COLLAPSING TAP. EDWARD M. BUCKIUS, Los Angeles, Calif. Filed Aug. 18, 1919. Serial No. 318,185. 4 Claims. (Cl. 10—140.)



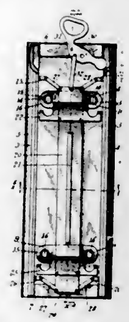
1. A collapsing tap comprising a body, a plurality of radially movable tap dies, an oscillatory actuator manually operated to translate the dies outwardly, a latch device for retaining the actuator in operated position, means for tripping said latch device, a chamfering tool carried by said trip means, means for automatically normalizing the actuator, and an independent means for normalizing the dies.

1,344,114. COMBINATION-TOOL. OSCAR T. CARLSON, Lindstrom, Minn. Filed Feb. 21, 1917. Serial No. 150,043. 1 Claim. (Cl. 7—3.)



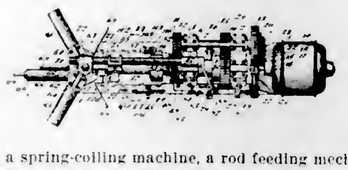
A device of the class described comprising a pair of handles, disks formed thereon and pivotally connected together, a heel formed integrally with one of said disks and provided with a pair of transverse semicircular grooves, one of said grooves being smaller than the other and undulating and the larger one being threaded, a toe formed integrally with the disk of the other handle and provided with a pair of grooves similar to and adapted to register with the aforesaid grooves.

1,344,115. FORM FOR CONCRETE CONSTRUCTION. JOHN H. CRESMER, Riverside, Calif. Filed Nov. 1, 1919. Serial No. 335,076. 8 Claims. (Cl. 25—128.)



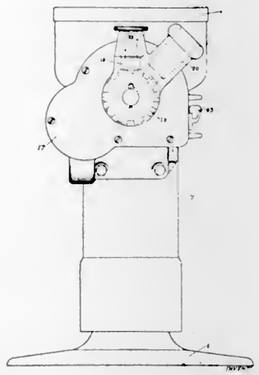
1. A device of the class described having opposed side plates provided with angled wedge shoes, edge strips intermediate the side plates, a vertically movable slide intermediate the side plates and edge strips and provided with wedge blocks adapted to coöperate with the adjacent wedge shoes, toggle-links pivotally connected to the edge strips and to the slide, means for translating the slide, and means yieldingly urging the side plates toward each other.

1,344,116. SPRING-COILING MACHINE. EMIL C. DANNER, Westmont borough, Pa. Filed Nov. 20, 1919. Serial No. 339,312. 22 Claims. (Cl. 153—67.)



1. In a spring-coiling machine, a rod feeding mechanism, a rotary mandrel, a clutch-shaft adapted to engage and rotate said mandrel, means adapted to rotate said clutch-shaft, and means adapted to revolve said mandrel into and out of line with said clutch-shaft.

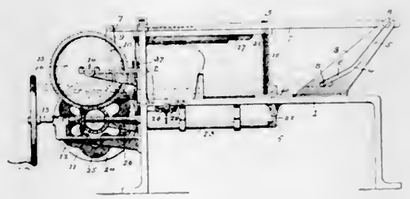
1,344,117. LIFTING-JACK. CHARLES W. RIPSCH, JAMES C. DAWLEY, and CHARLES D. DERBY, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,861. 13 Claims. (Cl. 254—103.)



1. In a lifting jack, a lifting member, a shaft operatively connected with said lifting member, a worm wheel

mounted on said shaft and adapted to be rotated thereby when said shaft is rotated by the downward movement of said lifting member, a worm meshing with said worm wheel and having its spiral so arranged that said worm will be rotated by said worm wheel, a second worm wheel connected with said worm for rotation therewith, a worm meshing with and adapted to be rotated by the last mentioned worm wheel, and a braking device connected with the last mentioned worm.

1,344,118. SLICING-MACHINE. CHARLES A. DIES, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,061. 15 Claims. (Cl. 146—12.)



1. In a slicing machine, the combination of a base, a cutter carriage arranged transversely of said base, means for imparting oblique movement to said carriage, a cutter blade mounted for reciprocation in said carriage, and means for imparting reciprocation to said cutter blade, substantially as set forth.

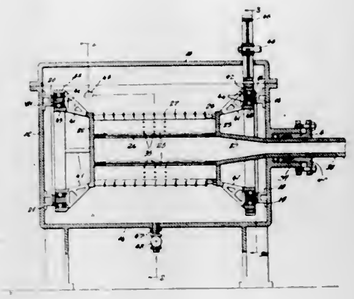
1,344,119. POTATO-BUG-TRAPPING MACHINE. JAMES MONRO DRAKE, Shawano, Wis. Filed Nov. 28, 1919. Serial No. 341,085. 4 Claims. (Cl. 43—143.)



1. In a machine of the character described, a plant shaking device to engage and shake the plants and thereby dislodge insects from the plants, means, including runners which slide on the ground to raise the plant-stems and guide them into position to be shaken by said shaking device, a plurality of insect-traps, one of said traps being located below and another located above the part of said shaking device that engages with the plants, for trapping the insects that fall and those that rise from the plants, and means to carry said shaking device along a row of plants and to operate said shaker and traps.

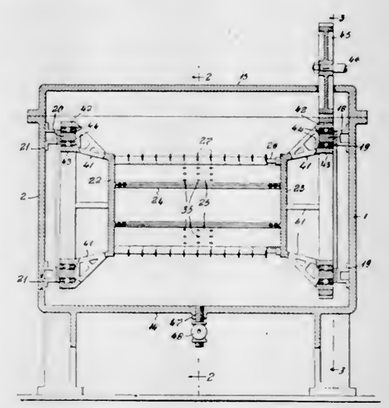
1,344,120. HOSIERY-DYEING MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed June 5, 1918. Serial No. 238,298. 4 Claims. (Cl. 8—18.)

1. In a dyeing machine, in combination, a receptacle, a hollow revoluble foraminous cylinder within the receptacle; means for revolving the cylinder; two imperforate end flanges carried by the cylinder forming a reel therewith; a series of foraminous plates carried by the cylinder and longitudinal thereof, said plates abutting upon the end



flanges; a removable foraminous cover for each fiber chamber formed by the cylinder, the foraminous plates and the flanges; and means exterior of the receptacle for the continuous forcing of a liquid through the device.

1,344,121. HOSIERY-DYEING MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed June 5, 1918. Serial No. 238,299. 1 Claim. (Cl. 8—18.)

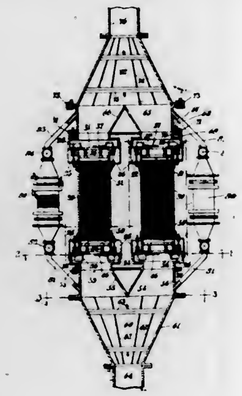


In a dyeing machine, in combination, a receptacle; a revoluble foraminous cylinder within the receptacle; means for revolving the cylinder; two imperforate flanges carried by the cylinder and forming a reel therewith; a plurality of foraminous plates carried by the cylinder, longitudinal thereof, abutting upon the flanges and forming a plurality of fiber chambers with the cylinder and the flanges; and a removable foraminous cover to each fiber chamber.

1,344,122. FIBER-TREATING MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Dec. 3, 1918. Serial No. 265,091. 22 Claims. (Cl. 8—18.)

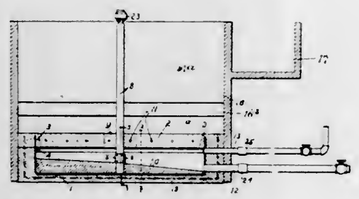
1. In a dyeing machine, in combination, a series of fiber chambers; an upper and lower removable foraminous

plate comprising a series of spaced hollow cylinders within each fiber chamber; means for moving both plates with



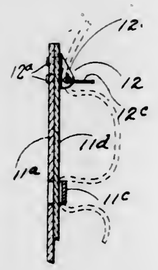
respect to each other compressing the fiber between them and means for forcing a liquid through the compressed fiber.

1,344,123. AERATION-CELL FOR FLOTATION APPARATUS. EDWARD W. ENGELMANN and WILLIAM T. MACDONALD, Hayden, Ariz. Filed Oct. 16, 1918. Serial No. 258,450. 7 Claims. (Cl. 261—122.)



1. A gas distributing means for flotation apparatus comprising a cell having impervious concrete sides and a porous concrete top.

1,344,124. TOILET-CASE. HENRY FELSENTHAL and LOUIS W. KAESTNER, Chicago, Ill., assignors to Felsenthal Brothers & Company, a Corporation of Illinois. Filed May 5, 1916. Serial No. 95,676. 5 Claims. (Cl. 150—34.)



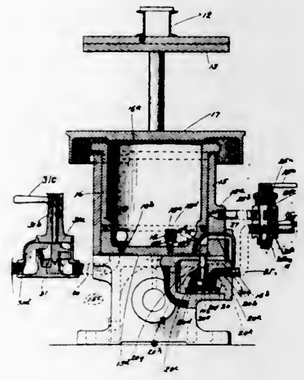
5. In an article holder, a supporting strap, a slotted strip providing a series of cross straps, and means for maintaining said cross straps raised out of the plane of said strip to permit of said supporting strap being readily inserted therethrough.

1,344,125. PROCESS AND PRODUCT OF ELECTRIC WELDING. EDWARD FULDA, New York, N. Y. Filed Nov. 23, 1918. Serial No. 263,802. 6 Claims. (Cl. 219—10.)



1. Process of electrically welding an ear or other sheet metal part to a metal body consisting in deforming the ear or part so that a corner only of the edges will engage the body and make a line contact therewith, applying an electrode contacting with the ear only in back of the contacting edge, passing an electric heating current across said line contact and applying pressure to weld the ear to the body along said edges.

1,344,126. MOLDING-MACHINE. PHILETUS W. GATES, Chicago, Ill., assignor to Mumford Molding Machine Company, Jersey City, N. J., a Coporation. Filed Jan. 17, 1917. Serial No. 142,938. 6 Claims. (Cl. 121—14.)

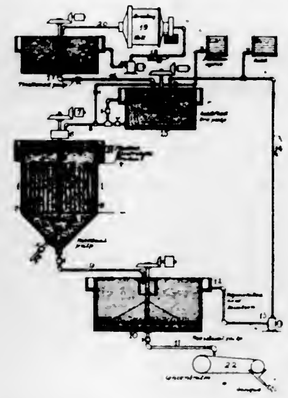


1. In a machine of the class described, a cylinder, a plunger reciprocably mounted therein, valved means to supply to said cylinder or cut off therefrom air for squeezing, valve means to control automatically the reciprocation of said plunger for jolt ramming, such cylinder being provided with an exhaust port, and a second valve means to open or close the supply of actuating fluid to said automatic valve means and simultaneously to open and close said exhaust port.

1,344,127. METALLURGICAL PROCESS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Nov. 28, 1917. Serial No. 204,337. 9 Claims. (Cl. 204—15.)

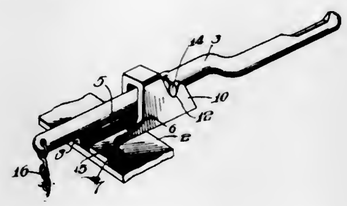
1. A metallurgical process which consists in treating mixed sulfid and oxid ores of copper with a solvent for the oxidized copper, applying a flotation agent to the ore pulp,

electrolyzing the ore pulp at a current density sufficiently high to give a loose deposit of copper, and floating the



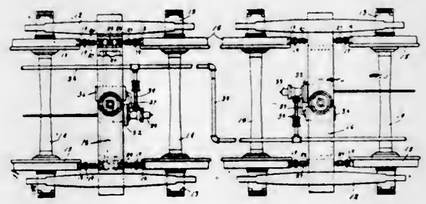
metallic copper produced by the electrolysis and the sulfid mineral with gases liberated by the electrolytic action.

1,344,128. INTERLOCKING FLUSH-TANK LEVER AND FULCRUM. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed Nov. 26, 1918. Serial No. 264,154. 3 Claims. (Cl. 74—5.)



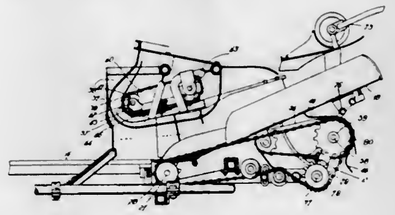
1. In combination, a lever having trunnions thereon, a fulcrum having an opening therethrough and notches in the top edges of said fulcrum on opposite sides of said opening in which the said trunnions are seated and the said lever extending through said opening, and means for limiting the pivotal movement of said lever and for retaining the said trunnions in said notches.

1,344,129. BRAKE MECHANISM FOR CARS. WILLIAM HARTILL-LAW, Minneapolis, Minn., assignor to Beamless Car Truck Self-Adjusting Brake Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Nov. 23, 1916. Serial No. 132,982. 12 Claims. (Cl. 188—195.)



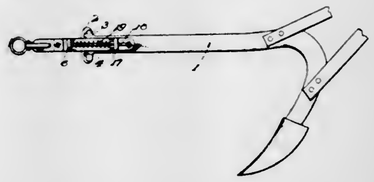
1. The combination with a car truck, of brake mechanism including brake shoes and shoe-actuating devices, said shoe-actuating devices including automatic means for increasing the brake setting power with increasing load, the ultimate operating means being in the truck structure and the reacting force in the brake setting action being absorbed in the truck structure so that it does not tend to lift the load.

1,344,130. HARVESTING-MACHINE. WALTER L. HENDRICKS, Aurora, Ill. Filed Mar. 15, 1918. Serial No. 222,596. 5 Claims. (Cl. 56—135.)



1. In a harvesting machine, in combination, a transversely slotted platform, a sickle bar in front of the platform, a flat deck extending away from the platform at one side of the same, bundle forming mechanism at the remote side of the deck from the platform, and three sets of traveling conveyer fingers all movable toward the said bundle forming mechanism, one set of the said conveyer fingers being supported below the platform and operating through its slots, another set of the said conveyer fingers being supported above the deck and operating over a part of the same adjacent the platform and over a portion of the platform, their path of movement overlapping that of the first named set, and the third set of conveyer fingers being supported below the deck and operating through the same adjacent the said bundle forming mechanism and acting as packers.

1,344,131. DRAFT-HEAD FOR PLOW-BEAMS. EDWIN G. HINES, Drums, Pa. Apr. 10, 1919. Serial No. 288,951. 6 Claims. (Cl. 97—4.)

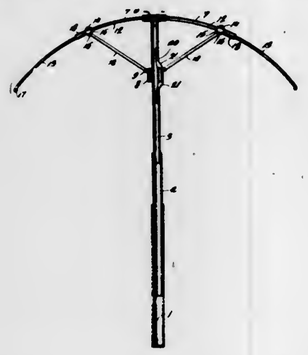


1. In a draft device of the class described, a member for attachment to a plow-beam or the like, rods slidably mounted upon the member at the opposite sides thereof, springs yieldably resisting the forward movement of the rods, and a draft bar to which the said rods are pivotally connected, the said draft bar being provided with a longitudinally extending series of openings for the attachment for a clevis.

1,344,132. UMBRELLA. JOE A. HUGHES and THOMAS E. HERINGTON, Mallard, Iowa. Filed Aug. 19, 1919. Serial No. 318,487. 1 Claim. (Cl. 135—26.)

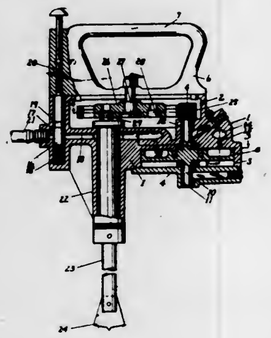
A collapsible umbrella comprising a series of telescopically connected sections, a ferrule on the upper end of the upper section, a sleeve slidably mounted on said upper section, means provided on said upper section for holding said sleeve in a desired position, ribs hingedly mounted upon said ferrule, extension ribs hingedly connected to said ribs, a sliding member mounted upon said ribs and provided with opposite cars, braces pivotally connected to

said ears and said sleeves, said extension ribs having their inner ends curved and pivotally connected to said braces,



a collar fixedly mounted upon the outer ends of said ribs, thereby holding said extension ribs in alinement with said ribs when extended and parallel to said ribs when folded.

1,344,133. GRINDER. CORWILL JACKSON, Kalamazoo, Mich. Filed June 11, 1919. Serial No. 303,351. 7 Claims. (Cl. 253—3.)



7. The combination of a body member having a gear box, a rotor cylinder and inlet and exhaust passages in the wall between said gear box and cylinder, the inlet passage having an annular portion communicating with said cylinder through a plurality of ports, a spindle at the side of said cylinder, a fluid actuated impact rotor provided with a shaft projecting into said gear box, a pinion on said shaft, and a spindle driving gear meshing with said pinion.

1,344,134. RAILWAY-TRACK APPLIANCE. ALBERT A. JARDIN, Congress Park, Ill. Filed Nov. 12, 1919. Serial No. 337,442. 6 Claims. (Cl. 104—254.)



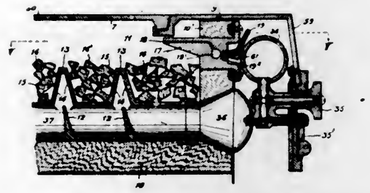
1. The combination with rails at the end of a track, having terminals which permit a car to pass off the track and a pile of material extending a substantial distance above the rails forming a yieldable bumper.

1,344,135. PACKAGE FOR DISASSEMBLED VEHICLE-CURTAIN WINDOWS. ABEN E. JOHNSON, Hastings, Mich. Filed Jan. 27, 1920. Serial No. 354,398. 3 Claims. (Cl. 206—47.)



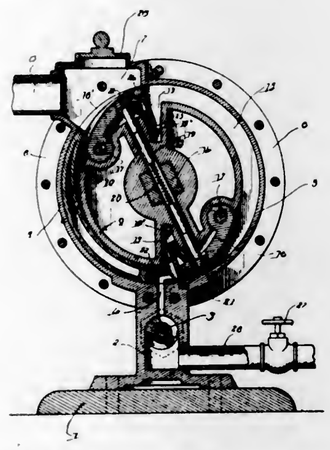
1. A package for the disassembled parts of a plurality of vehicle curtain windows including panes and pairs of pane supporting frame members and clamping bolts therefor, comprising the panes superimposed with sheets of cellular board at each side thereof, a border frame for the superimposed panes and sheets of cellular board comprising a pair of the frame members clamped upon the panes and cellular board sheets by ties connecting such frame member at the outside of the edges of the panes, the remaining frame members being superimposed on the panes so bound providing a recess, an envelop containing the clamping bolts disposed in said recess, and a wrapper for the parts so arranged.

1,344,136. GAS-STOVE. SHIZEO KOBE, Cleveland, Ohio. Filed May 2, 1919. Serial No. 294,213. 7 Claims. (Cl. 126—39.)



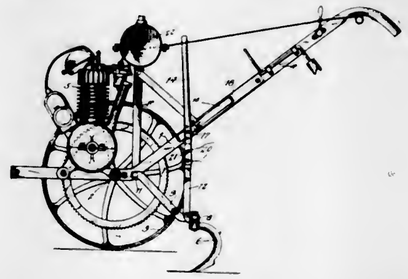
1. In a gas stove, the combination with a suitable body member provided with a gas conduit including a burner and a waste pipe: of separate means located above the burner adapted to furnish a blanketing blue flame intermediately the central portion of the stove cover and said burner.

1,344,137. ROTARY ENGINE. SIRIUS E. KOCHENDARFER, Washington, Pa. Filed Oct. 2, 1918. Serial No. 256,618. 5 Claims. (Cl. 121—95.)



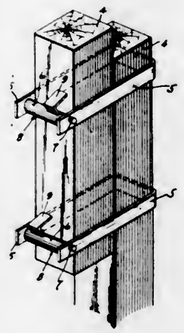
1. A rotary engine, comprising a casing having a working chamber with a cam wall and an incline having a steam inlet, and a rotor operable in said chamber, with a a piston having an opening for conducting steam behind the piston on reaching said incline, before steam pressure is actually exerted on the piston.

1,344,138. CULTIVATOR. CHARLES S. MCCARTHY, Jr., Sandusky, Ohio. Filed Dec. 13, 1918, Serial No. 266,646. Renewed Nov. 6, 1919. Serial No. 336,234. 6 Claims. (Cl. 97—34.)



1. In a cultivator of the type described, the combination of a wheeled frame, earth working devices, and means supporting said devices upon the frame including arms pivotally connected with the frame, carriers to which said devices are attached and located at the free ends of said arms, a yoke pivotally connected at its lower portions to said arms, and lever mechanism on the frame connected with the yoke for raising and lowering the same.

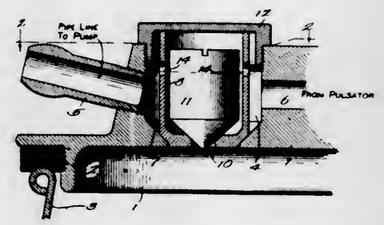
1,344,139. POST-SPLICING CLAMP. HOWARD O. MCMILLAN, Minneapolis, Minn. Filed Nov. 4, 1919. Serial No. 335,707. 4 Claims. (Cl. 304—40.)



1. A splicing clamp of the kind described comprising a yoke, an eccentric clamping shaft and a key, said shaft, at its ends being eccentrically mounted in the arms of said yoke, and said key being detachably interlockable with said eccentric shaft and adapted to bear against the post to lock the eccentric in the clamping position.

1,344,140. MILKING-MACHINE. ARTHUR C. MACARTNEY, Syracuse, N. Y., assignor to Pine Tree Milking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1919. Serial No. 299,507. 7 Claims. (Cl. 31—101.)

1. In a milking machine, a milk pail cover having a valve chamber with a port leading to the inside of the pail, a vacuum duct leading from said chamber for creating a vacuum therein and in the pail, a check valve adapted to control said port, and a dam rising from the

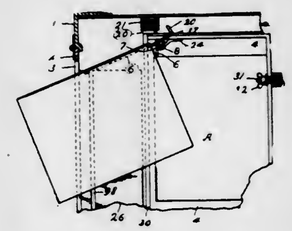


bottom of the chamber and spaced from the walls thereof for retaining any liquid that may gain access to said chamber.

1,344,141. MANUFACTURING RUBY-GLASS. MAX METH, Lancaster, Ohio, assignor to The Lancaster Lens Company, Lancaster, Ohio, a Corporation of Ohio. Filed Nov. 22, 1918. Serial No. 263,668. 1 Claim. (Cl. 106—36.1.)

The method of producing ruby glass which consists in mixing with the ordinary transparent glass ingredients a suitable quantity of sulfate of antimony and crude tartar.

1,344,142. VENDING-MACHINE. WILLIAM MEYER, Rosedale, Kans. Filed May 2, 1918. Serial No. 232,026. 16 Claims. (Cl. 211—8.)

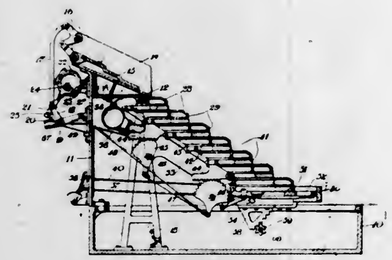


1. In a machine of the character described, a case having a delivery slot, a delivery arm embodying resilient actuating means whereby it is enabled to deliver an article to said slot, means for securing said arm in normal position, and means for releasing said arm so that it may be actuated by the resilient means.

1,344,143. PROCESS OF PREVENTING THE INNER WALLS OF RUBBER HOSE FROM STICKING DURING MANUFACTURE. FRANK C. MOORE, Canton, Ohio. Filed Dec. 21, 1918. Serial No. 267,819. 4 Claims. (Cl. 154—8.)

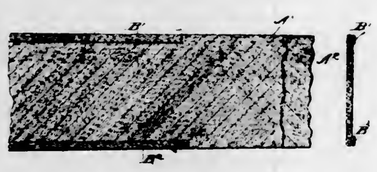
1. The herein described step in the manufacture of high grade rubber hose which consists in simultaneously applying to the inner and outer walls of an uncured inner tube, a mixture of water and a powdered agent capable of being deposited upon the walls of the tube and preventing the adhesion of said walls.

1,344,144. FURNACE-GRATE. JAMES A. PACKARD, Milwaukee, Wis., assignor to Packard Stoker Corporation of America, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 22, 1917. Serial No. 197,868. 11 Claims. (Cl. 110—37.)



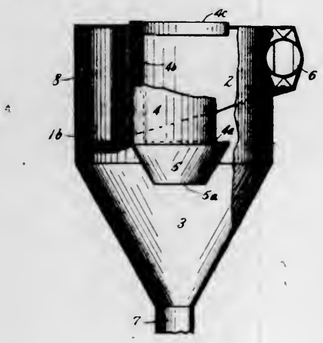
1. An inclined stepped grate pivotally suspended at its upper end, segmental racks at its lower end, a shaft having pinions meshing with the segmental racks, and a worm driving means for said shaft for swinging the grate on its pivotal support to change its inclination.

1,344,145. CARCASS FABRIC FOR PNEUMATIC TIRES. JOHN F. PALMER, Riverside, Ill. Filed Nov. 27, 1916. Serial No. 133,748. 13 Claims. (Cl. 154—52.)



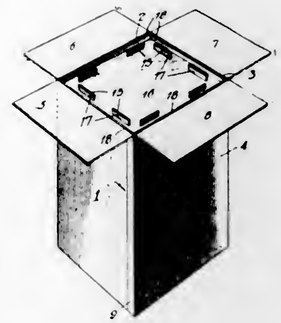
1. A carcass fabric for pneumatic tires comprising superposed layers of bands, the constituent primary members of each band being interwoven in substantially parallel relation.

1,344,146. DUST-COLLECTOR. CHARLES B. PECK, Suffern, N. Y. Filed July 1, 1919. Serial No. 307,913. 5 Claims. (Cl. 183—82.)



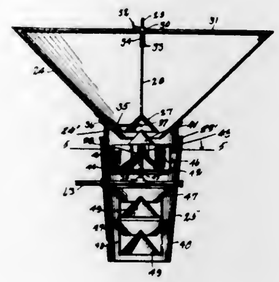
1. In a dust-collector, the combination with a cylindrical separating chamber and a collecting cone, of a nozzle of curvilinear form uniformly increasing in height and width to permit the gradual and regular expansion of air and at the same time to give the centrifugal force necessary to separate the dust-particles from the air current.

1,344,147. SHIPPING-BOX. EARL C. POTTER, Chicago, Ill., assignor, by mesne assignments, to Sefton Manufacturing Corporation, Millbrook, N. Y., a Corporation of York. Filed Feb. 21, 1916. Serial No. 79,601. 3 Claims. (Cl. 229—14.)



1. A shipping box comprising an outer rectangular shell, an inner shell consisting of four side walls hinged together, spaced from the outer shell, a cover member arranged adjacent and parallel with one of the walls of the outer shell and adapted to fit snugly within the four surrounding walls of such outer shell, said cover member being arranged to interlock with the ends of the sides of the inner shell and form a closure for the same.

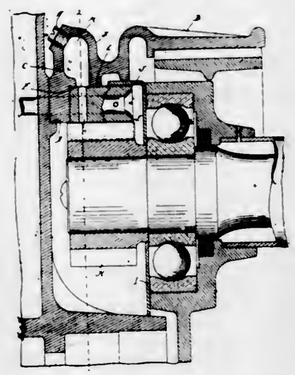
1,344,148. GRAIN-PICKLER. ARTHUR E. ROCKOLA, Sandford Deen, Saskatchewan, Canada. Filed Oct. 10, 1919. Serial No. 329,677. 4 Claims. (Cl. 83—27.)



1. In a device of the character described, the combination of a hopper having a casing depending therefrom, a liquid supply means including a vertical nozzle having apertures at the upper portion thereof, a deflector hood carried upon the upper end of said nozzle, and a rotary agitator rotatably mounted upon said nozzle below said deflector hood whereby grain directed onto the rotary agitator will be thrown forward as the agitator rotates and will be mixed with the liquid dispensed onto the agitator.

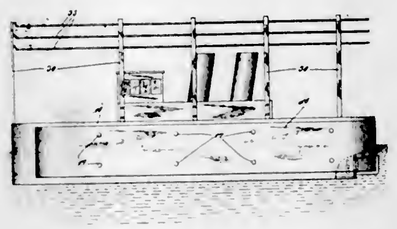
1,344,149. [WITHDRAWN.]

1,344,150. VEHICLE-AXLE. ALBERT W. RUSSEL, Detroit, Mich., assignor to Russel Motor Axle Company, Detroit, Mich., a Corporation of Michigan. Filed May 29, 1919. Serial No. 300,672. 5 Claims. (Cl. 74—7.)



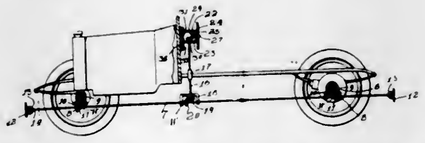
1. In an axle, the combination with an internal gear and pinion meshing therewith, of a lubricant container arranged outside of said gear and a passage through the gear into an interdental space thereof and connected with said lubricant container.

1,344,151. SHIP-PROTECTOR. PETER SANGOFF, Quincy, Mass. Filed July 10, 1918. Serial No. 244,174. 1 Claim. (Cl. 114—1.)



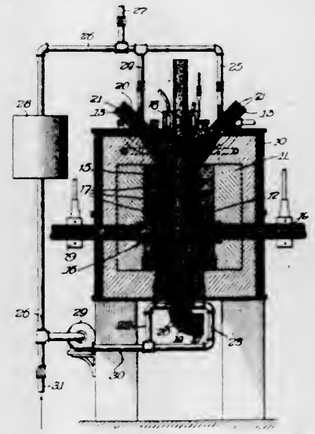
In an aerial bomb protector for ships, the combination with the hull of a ship, of a plurality of vertical posts engaged with the edge of the gunwale of a ship extending above the highest portion of the ship's superstructure, a plurality of superposed cover-plates, and coiled tension springs for securing said cover-plates to said vertical posts, substantially as described and for the purpose set forth.

1,344,152. AUTOMOBILE-SIGNAL. WALTER CLAIR SENNETT, Portland, Me. Filed Dec. 15, 1919. Serial No. 344,898. 2 Claims. (Cl. 116—35.)



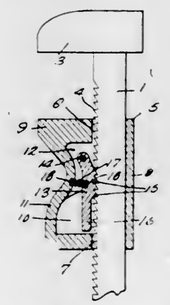
1. In an automobile signaling device, a supporting rod, brackets for supporting the supporting rod, indicators secured to the respective ends of the supporting rod, a bracket embracing a portion of the supporting rod, an operating rod having one of its extremities operating in the last mentioned bracked, means disposed adjacent the upper end of the operating rod for causing rotation of the operating rod and the supporting rod, a compensating bracket having connection with one end of the operating rod, said compensating bracket adapted to permit movement of the body of the automobile to which the device is applied with relation to the operating rod.

1,344,153. PRODUCTION OF ALUMINUM NITRID AND THE LIKE. MARK SHOELD, Chicago, Ill., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed July 10, 1919. Serial No. 309,800. 35 Claims. (Cl. 204—31.)



10. The method of producing aluminum nitrid by electrically-generated heat comprising forming a mechanical mixture composed of briquets to be chemically modified containing finely-divided aluminous and carbonaceous materials and practically-infusible resister-elements of substantial size which do not enter into the chemical reaction and which are of greater electrical conductivity than and which prevent fusion of the briquets, and subjecting such mixture to a nitrogen-containing gas and the passage of an electric current therethrough, thereby sufficiently heating the briquets by the heat developed by the resister-elements to chemically change the briquets thus producing aluminum nitrid, substantially as described.

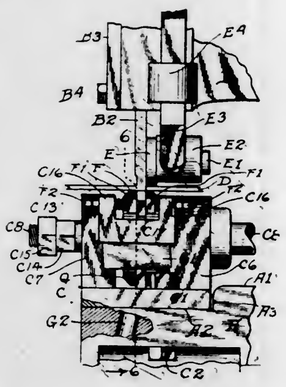
1,344,154. QUICK-ADJUSTABLE WRENCH. ANDREW SHOOPMAN, Vera, Tex. Filed Jan. 23, 1917. Serial No. 143,956. 1 Claim. (Cl. 81—134.)



A wrench embodying a shank having ratchet teeth and a fixed jaw, a slide upon the shank and having a jaw movable therewith, there being a recess within the slide and finger receiving openings at the sides of the recess, a dog pivotally mounted within one end portion of the recess and having teeth adjacent its pivot end for engaging the

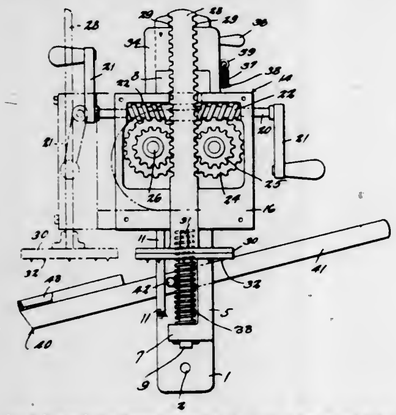
teeth on the shank, and a spring housed within the slide for holding the dog normally in engagement with the shank, said dog having an elongated free end portion constituting a finger piece housed at all times within the recess but exposed through the side openings for engagement by fingers inserted through said openings.

1,344,155. MACHINE FOR CUTTING SHEET-FORM MATERIAL. WILLIAM F. SIMPSON, Knoxville, Tenn., assignor to Cyrus Kehr, trustee, Knoxville, Tenn. Filed Oct. 6, 1917. Serial No. 195,170. 6 Claims. (Cl. 164—49.)



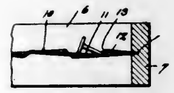
1. In a machine of the nature described, the combination with a stationary cutter, a rotary cutter, and a reciprocatory cutter located above and working in conjunction with said stationary cutter and said rotary cutter for cutting, of a cylindrical supporting member bearing upward against the stationary cutter, a horizontal member located below and bearing upward against said supporting member in approximate alinement with the reciprocatory cutter, and a stationary member forming a firm support for said supporting member in approximate alinement with the reciprocatory cutter, to the end that the cutting end of the stationary cutter may receive firm support for resisting the downward blows imparted by the reciprocatory cutter, substantially as described.

1,344,156. BARREL, WINE, AND LARD PRESS. GAYLE L. SQUIRE, Hastings, Fla. Filed Jan. 26, 1920. Serial No. 354,112. 4 Claims. (Cl. 100—57.)



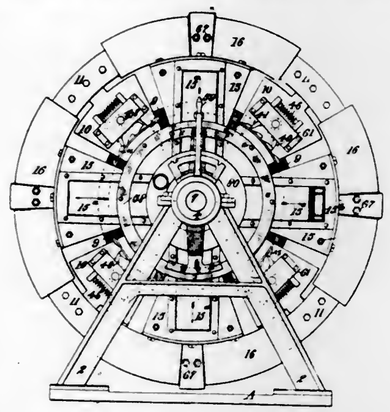
1. In a barrel heading machine a vertically movable head support; a frame; a heading member movably mounted on the frame and provided with means for holding a head when the head is raised by the head support; means carried by the frame for actuating said member to effect the heading operation; and means for mounting the frame for lateral swinging movement thereby to bring the heading member above the head support.

1,344,157. TACK-HOLDER. ULYSSES G. SWEENEY, Fresno, Calif. Filed Nov. 25, 1919. Serial No. 340,603. 2 Claims. (Cl. 1—6.)



1. A tack supporting device including a box-like construction, a supporting surface of non-magnetic material, supported within the box-like structure, and in spaced relation with the top and bottom thereof, said supporting surface having grooves formed therein, said supporting surface having openings formed in the side walls thereof, and a cover for said box-like structure.

1,344,158. ROTATING INTERNAL-COMBUSTION ENGINE. JASPER J. WALK, Oakland, Calif. Filed May 28, 1919. Serial No. 300,301. 23 Claims. (Cl. 123—43.)

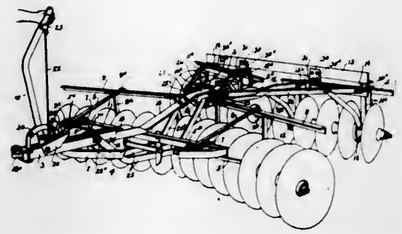


23. A rotating internal combustion engine comprising a central stationary bearing support, a plurality of cylinders turnably mounted about said support, a piston carrier also mounted on and turnable about said support, a plurality of pistons secured on said carrier, one for each cylinder, said pistons revolving in unison and said cylinders revolving in unison, said pistons having a lagging and forward movement during their continuous rotation with respect to the rotating movement of the cylinders, and means for admitting a motive fluid to each cylinder and to exhaust it therefrom.

1,344,159. DISK HARROW. FREDERICK C. WARNE, Mansfield, Ohio, assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 16, 1918. Serial No. 234,873. 22 Claims. (Cl. 55—83.)

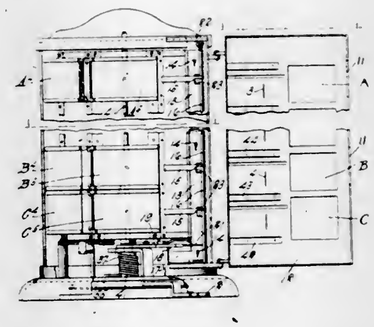
1. In a tillage implement, the combination with front and rear frame units each provided with longitudinally fixed and movable draft connections; of a hand lever interposed between said fixed and movable draft members of said front unit and provided with lever actuated adjusting and locking mechanism for engaging said movable draft connections.

3. In a tillage implement, a plurality of frame units and tillage gangs, longitudinally fixed and movable draft members flexibly connected to said frame units and gangs, and



a fixed draft element connected to one frame unit and to the fixed draft members of the other at points equally distant from the line of draft.

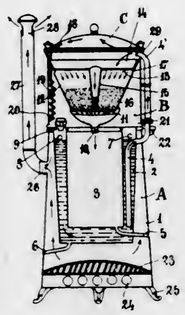
1,344,160. VENDING-MACHINE. CHARLES B. WRIGHT, Chicago, Ill., assignor to Post Card Vending Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 12, 1917. Serial No. 154,073. 14 Claims. (Cl. 211—8.)



14. The combination in a machine for dispensing commodity units of a holder, an extractor for removing units from the holder, cam means for controlling said extractor to press the extractor toward the commodity upon one stroke and away from the commodity upon a reverse stroke, said cam means having a latch for insuring against a reversal of a cycle of operation of the cam, and a ratchet and pawl mechanism for insuring against a return movement of the extractor before a stroke has been completed, said ratchet having an extension arm upon which said latch has mounted.

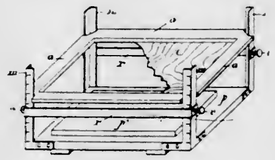
1,344,161. APPARATUS FOR PREPARING COFFEE INFUSION. PIER TERESIO ARDUINO, Turin, Italy. Filed Apr. 16, 1919. Serial No. 290,418. 3 Claims. (Cl. 53—3.)

1. In a coffee-making apparatus, the combination of a body having separate upper and lower compartments: a water tank and a coffee receptacle in the lower compartment, the tank having a closed top; a holder for powdered coffee in the upper compartment communicating with the coffee receptacle, a pipe leading from the tank to the coffee holder and having its lower end terminating short of the bottom of the tank, so as to supply hot water to the holder until its said end is uncovered and thereafter to supply steam; and a separate pipe in the upper compartment for discharging therefrom the steam delivered by the first-named pipe, the last-named pipe having its outlet end



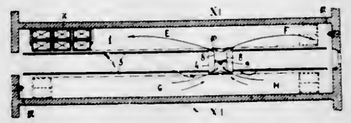
opening through the wall of the upper compartment and being formed adjacent said end with a coiled portion for opposing a resistance to the flow of steam therethrough.

1,344,162. ALTIMETRIC DEVICE FOR USE IN THE PRODUCTION OF PLANS AND MAPS IN RELIEF. HENRY ARNOLD, Paris, France, assignor to Societe Francaise d'Editions Photo-Cartographiques, Paris, France, a Corporation of France. Filed Apr. 19, 1918. Serial No. 229,635. 3 Claims. (Cl. 41—1.)



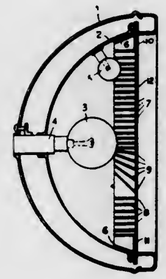
1. An altimetric device for reproducing plans and maps in relief with great accuracy to any scale, comprising a base with members adjustably mounted thereon and provided with scales for vertical adjustment, and a member for carrying the original contour plan and guiding it truly over the base, so that said plan may contact with a plastic material deposited on the base.

1,344,163. DRYING PLANT. PILADE BARDUCCI, Naples, Italy. Filed Mar. 22, 1919. Serial No. 284,440. 3 Claims. (Cl. 34—19.)



3. Apparatus for drying materials in a drying room, comprising a plurality of supporting means arranged longitudinally in the room, a ventilating device embodying a casing having mouths in its walls facing said supporting means and ventilating means located in said casing, and means for reciprocating said casing in said room along said supporting means, said ventilating means producing simultaneously draft air streams and blast air streams between said supporting means.

1,344,164. ANTIGLARE DEVICE FOR HEADLIGHTS. WILLIAM BENNETT, Hamilton, Ontario, Canada. Filed Nov. 28, 1919. Serial No. 341,096. 4 Claims. (Cl. 240—48.4.)

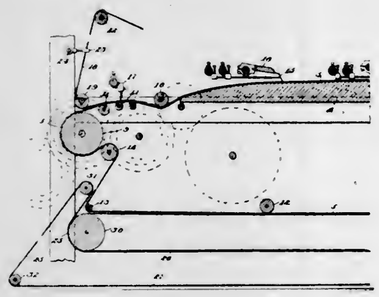


1. In an antiglare device, the combination with a downwardly inclined lamp and a parabolic reflector therefor, of a plurality of non-reflectory transverse upper and lower strips extending across the reflector, the plane of each being parallel to the longitudinal axis of the lamp, and a plurality of intermediate longitudinally diverging non-reflectory strips located below the focus of the reflector, their forward edges parallel to the aforesaid strips, said strips extending across the reflector.

1,344,165. SOLDER FOR ALUMINIUM. FÉLIX FRANÇOIS, BOISSELIER, Colombes, France. Filed Feb. 14, 1919. Serial No. 277,096. 1 Claim. (Cl. 75—1.)

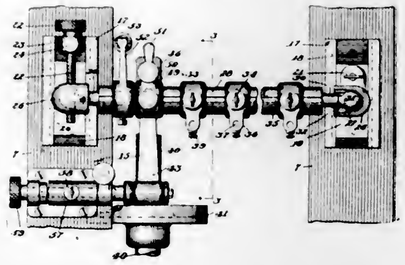
Solder for soldering aluminium parts or aluminium alloys composed of the following alloy: 28 per cent. of aluminium from 36.5 to 37.5 per cent. of zinc 33 per cent. of tin and from 2.5 to 1.5 per cent. of copper.

1,344,166. RULING APPARATUS. ALBERT BROADMEYER, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Sept. 22, 1919. Serial No. 325,370. 9 Claims. (Cl. 33—34.)



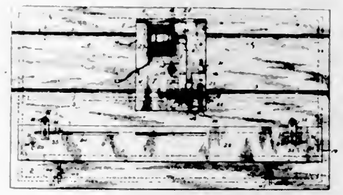
1. In apparatus of the character described, the combination with an endless work-conveying belt having upper and lower stretches, of ruling mechanism operating over the outer face of the upper stretch of the belt, means for holding the work to said face during its movement past the ruling mechanism, and means separate from the first-mentioned means for maintaining the ruled work against the under face of the lower stretch of the belt.

1,344,167. GAGE OR GATE MECHANISM. ALBERT BROADMEYER, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Sept. 22, 1919. Serial No. 325,371. 17 Claims. (Cl. 271—50.)



2. In gage mechanism of the character set forth, the combination with a movable stop, of means for moving the same, including an actuated element that transmits movement to the stop, an actuating element for periodically moving the actuated element, and means for changing the position of the actuated element with respect to the actuating element and the stop while maintaining its operative relation to the latter to alter the time of operation of the actuated element by the actuating element.

1,344,168. MACHINE FOR SHARPENING LAWN-MOWER BLADES. CHARLES F. BROWN, Greeneville, Tenn. Filed Apr. 12, 1919. Serial No. 289,524. 8 Claims. (Cl. 51—34.)



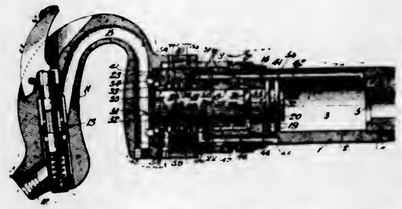
1. In a sharpening machine, the combination with a table, and a carriage mounted thereon, of grinding means mounted on said carriage, an electric motor also mounted on said carriage and connected with said grinding means for operating the same, and work holding means adjustably mounted on said table relatively to the carriage.

1,344,169. BELT-CUTTER. ROBERT BUCKINGHAM, Huntington, Ind. Filed July 10, 1919. Serial No. 309,960. 6 Claims. (Cl. 164—73.)



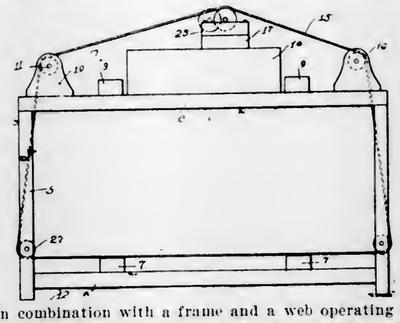
1. A device of the character described including coacting frame elements pivotally connected to each other at one end to form work holding means, knife supporting means slidable longitudinally upon one of said elements, a knife carried by said means, and a clamp carried by one of said frame elements at the end remote from the pivot and swinging into engagement with the other element to secure the work in position, and a clamping screw for firmly fixing the clamp in position.

1,344,170. COMPOUND PNEUMATIC IMPACT-TOOL. WILLIAM BURLINGHAM, Newport News, Va., assignor to Engineering Products Corporation, Newport News, Va., a Corporation of Virginia. Filed Oct. 15, 1915. Serial No. 56,002. 120 Claims. (Cl. 121—15.)



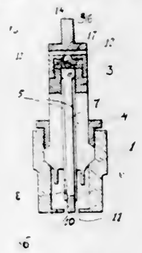
1. A pneumatic impact tool, comprising a barrel, a small diameter cylinder therein, a large diameter cylinder, a piston adapted to reciprocate in said cylinders, a single valve for controlling the distribution of motive fluid and through which said piston passes, and means coacting with said single valve to utilize the energy left in the motive fluid after it has been initially used in one cylinder to augment the energy of said piston.

1,344,171. GUIDE-ROLL FOR PAPER-MACHINES. RILEY J. BYRON, Mount Vernon, Ind. Filed July 21, 1919. Serial No. 312,160. 1 Claim. (Cl. 193—23.)



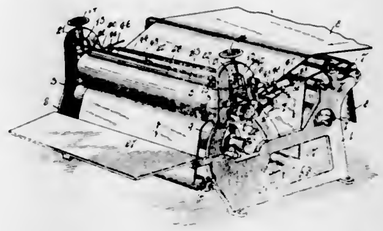
In combination with a frame and a web operating over the frame, a guide roll including a shaft having a pair of spaced rollers mounted thereon, a pivot pin forming a bearing for the shaft and having connection therewith between adjacent ends of the rollers, means to restrict swinging movement of the rollers, and said shaft having its ends extending beyond the ends of the rollers, and means for supporting the ends of the shaft.

1,344,172. SPARK-PLUG. LEON CAMMEN, New York, and AUGUST W. OFELDT, Weehawken, N. J., assignors to Northwind Spark Plug Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 6, 1919. Serial No. 315,640. 4 Claims. (Cl. 123—169.)



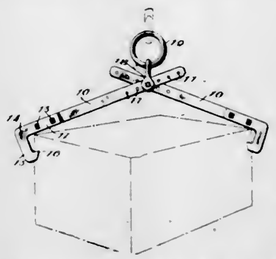
1. In a spark plug, a tubular center electrode and a disk valve to admit air to said electrode, and to prevent said admission of air when the pressure in the center tube electrode is greater than atmospheric.

1,344,173. PULP-MACHINE. JOSEPH GILBERT CARRIER, Chicoutimi, Quebec, Canada. Filed Apr. 5, 1919. Serial No. 287,810. 22 Claims. (Cl. 92—67.)



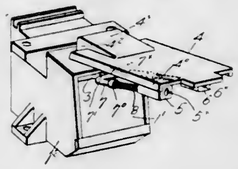
1. In a pulp machine of the character described having a collecting member, and means for feeding the continuous sheet of pulp to said collecting member, of means for cutting the pulp upon said collecting member and said continuous sheet substantially as and in the manner specified.

1,344,174. LIFTING DEVICE OR GRAPPLE. MELVIN CLOGSTON, Terre Haute, Ind., assignor of one-half to Joseph Soeders, Terre Haute, Ind. Filed Oct. 13, 1919. Serial No. 330,337. 1 Claim. (Cl. 294—118.)



A grappling device for rectangular articles, including grappling arms, each having at opposite sides of its outer end the separately attached inner extensions of grappling elements of similar construction disposed in spaced apart relation, each of said grappling elements being provided with an offset intermediate its ends adjacent the end of its grappling arm, forming an angular outer extension terminating in an angular engaging point disposed approximately parallel to the grappling arm, the inner portions of said grappling arms lapping one another and having lengthwise series of openings as and for the purpose described.

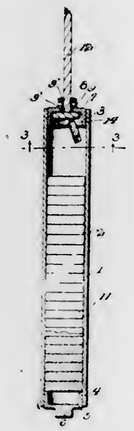
1,344,175. JOURNAL-BOX LID. JAMES STANBURY CREEDY, Hamilton, Ontario, Canada. Filed Dec. 16, 1918. Serial No. 266,936. 1 Claim. (Cl. 64—23.)



In a journal box, a stud bearing member extending outwardly from the journal box in proximity to the mouth thereof, studs extending from each side of such stud bearing member, a lid, a hooded portion on the lid having open ended slots in the side walls thereof into which the studs extend, lugs extending forwardly from the upper edge of the journal box, depending bosses extending from the lid

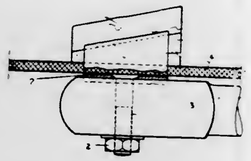
having orifices extending therethrough, a U-bolt member pivoted at one end between the lugs and having the arms thereof extending through the orifices of the depending bosses of the lid, and compression springs surrounding the U-bolt members between the lid bosses and the base thereof.

1,344,176. SASH-WEIGHT. ALBERT B. CRESSLER, LUDWIG B. NEES, and HARRY B. BAUMBACH, Middletown, Pa. Filed Dec. 17, 1919. Serial No. 345,581. 1 Claim. (Cl. 16—20.)



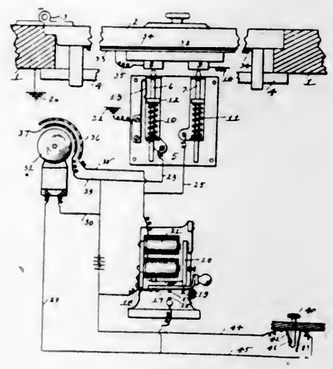
A sash weight comprising a hollow body threaded at one end, and a plug removably fitted to the said end of the body and closing the same and having its upper side provided with an upstanding rectangular boss, the said plug being provided in its under side with a concavity and the plug being formed with an opening extending axially through its top and axially through the boss, and the said boss being formed with a transverse opening intersecting and communicating with the first mentioned opening and opening through opposite sides of the said boss.

1,344,177. BELT-HOLDER FOR LOOMS. KARL ECKERT, Fällanden, Switzerland, assignor to Hans Koch, Dietikon, Switzerland. Filed June 25, 1919. Serial No. 306,755. 3 Claims. (Cl. 139—48.)



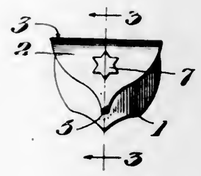
3. In a belt or strap fastener for looms the combination with the picker stick; of a wedge-shaped casing interiorly roughened on its bottom, a bolt passing through said bottom and securing the casing to the picker stick, the sides of said casing having their upper edges bent over toward each other to form a slot between them, a wedge having smooth surfaces, and a longitudinal central projection from its upper face forming a handle, said handle projecting through the slot formed between said turned over edges.

1,344,178. BURGLAR-ALARM. OLE JACOBSON, Grand Rapids, Mich., assignor to Safety Burglar Alarm Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 21, 1918. Serial No. 263,456. 5 Claims. (Cl. 177—316.)



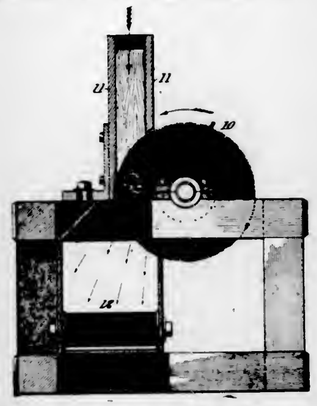
3. In a device of the character described; a door; a lock therefor; an alarm; an electric circuit for operating the alarm; a circuit closer and opener in the circuit, closed by the locking operation of the lock and opened by the unlocking operation of the lock; an independently operated circuit closer and opener in the circuit comprising a contact point carried in connection with the door and a movable contact element adapted to be held by the shut door and to move in the door's opening movement in circuit closing position with said point, and a second contact point and a second movable contact element adapted to be held by the shut door in circuit opening position with said second point and to move in the door's opening movement into contact with said second point to close the circuit and operate the alarm; an electrically conducting sheet inside the door and separated from the outside of the door by an insulating sheet; a third contact point carried in connection with the door and electrically connected with said conducting sheet and contacting with the second movable contact element in the shut position of the door, the outside of the door being electrically conducting.

1,344,179. LIP-GUARD. JUAN DIEGUEZ Y LOPEZ and FRANCISCO ALCAÑIZ Y BASCOMPTE, Habana, Cuba. Filed Apr. 13, 1920. Serial No. 373,547. 5 Claims. (Cl. 65—13.)



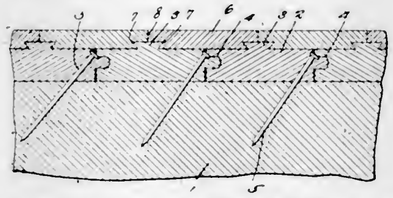
2. A lip guard for drinking vessels, adapted to be supported upon the edge of the vessel and provided with a wafer treated with a chemical solution which upon contact with the contents of the vessel, will cause the wafer to change color.

1,344,180. DEFIBERIZING REDWOOD-BARK. UEL S. MCMILLAN, San Francisco, Calif. Filed Nov. 26, 1919. Serial No. 340,772. 2 Claims. (Cl. 83—75.)



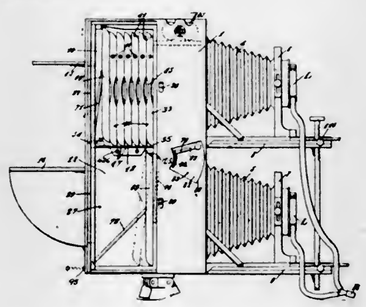
1. The process of defiberizing wood which consists in subjecting the solid wood to a yielding combing action in line with the length of the fibers of the same.

1,344,181. FLOOR STRUCTURE. IRVING W. MASON, Aberdeen, Wash. Filed Apr. 5, 1919. Serial No. 287,673. 1 Claim. (Cl. 20—8.)



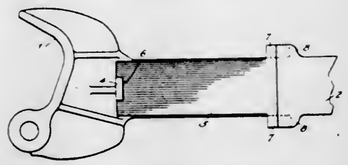
In a structure of the class described, a sub-structure; floor boards on the sub-structure and provided on their upper surfaces with integral undercut ribs; upper members supported by the floor boards and provided at their meeting edges with dovetailed recesses receiving the ribs; and inclined securing devices passing through the floor boards independently of the ribs, the boards being appreciably thicker than the ribs to permit the securing devices to be of a maximum size.

1,344,182. CAMERA. ARTHUR J. MILLER, Warren, Pa. Filed Jan. 25, 1918. Serial No. 213,754. 8 Claims. (Cl. 95—30.)



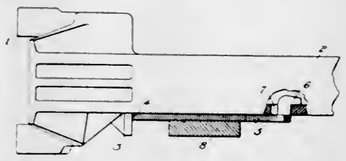
1. A camera having a magazine chamber and a transferring chamber, camera sections for the two chambers, a focusing screen in the transferring chamber movable into and out of focusing position, and a plurality of holders for sensitized members within the magazine chamber, the foremost holder being in focusing position and being movable into focusing position in the transferring chamber.

1,344,183. WEAR-PLATE FOR CAR-COUPLINGS. ISAAC H. MILLIKEN, Aspinwall, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1918. Serial No. 223,770. 4 Claims. (Cl. 213—42.)



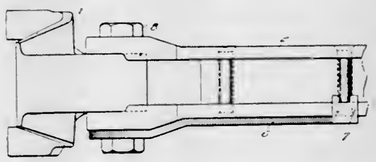
1. In a device of the character indicated, the combination with a carry-iron, of a car coupler, and a wear plate interposed between said carry-iron and coupler and connected only to said coupler, said coupler and wear plate being provided with interfitting means for preventing lateral and longitudinal movements of said plate with respect to said coupler, said means involving a downwardly extending projection on said coupler adapted to engage said wear plate in advance of said carry-iron, and a plurality of spaced lugs formed on said wear plate and embracing and engaging said coupler rearwardly of said carry-iron.

1,344,184. WEAR-PLATE FOR CAR-COUPLINGS. ISAAC H. MILLIKEN, Aspinwall, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1918. Serial No. 223,771. 4 Claims. (Cl. 213—42.)



1. In a device of the characted indicated, the combination with a car coupler, of a wear plate arranged on the under side thereof, and a carry-iron for supporting said wear plate and coupler, said coupler and wear plate having transversely extending engaging shoulders at one end of said wear plate and longitudinally extending engaging shoulders at the opposite end of said wear plate, and said wear plate engaging said coupler and carry-iron only.

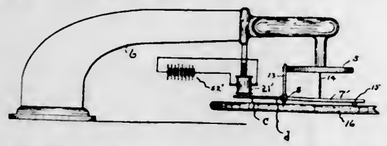
1,344,185. WEAR-PLATE FOR CAR-COUPLINGS. ISAAC H. MILLIKEN, Aspinwall, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1918. Serial No 223,772. 2 Claims. (Cl. 213—42.)



1. In a device of the character indicated, the combination with a coupler head and stem, of a wear plate associated therewith, said wear plate located beneath and in contact with the stem, said wear plate provided at its rear end with a plurality of spaced lugs adapted to embrace the lateral walls of the coupler stem and restrain lateral

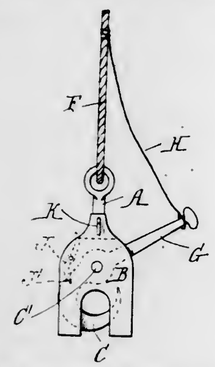
movement of the wear plate on the stem, and a pin for connecting the wear plate and coupler head and preventing longitudinal movement of the wear plate with respect to the coupler head and stem.

1,344,186. PHONOGRAPH ATTACHMENT. RALPH W. MORRISON, Omaha, Nebr., assignor to Cathedral Phonograph Company, Omaha, Nebr., a Corporation of Nebraska. Filed Apr. 8, 1919. Serial No. 288,559. 2 Claims. (Cl. 274—34.)



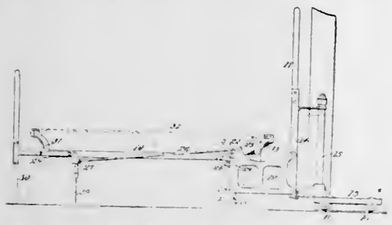
1. In combination with a pivotally mounted stylus-arm and revoluble disk of a phonograph, an electromagnet disposed within operative proximity to the stylus-arm for normally causing a pressure of the stylus against said disk.

1,344,187. LIFTING OR SLING HOOK. WILLIAM JAMES OLIVER, Christchurch, New Zealand. Filed Apr. 2, 1919. Serial No. 286,987. 3 Claims. (Cl. 294—83.)



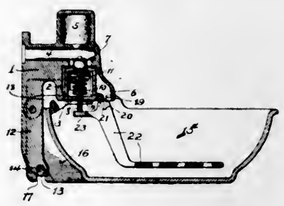
1. A sling hook formed by a frame member adapted to be suspended from a rope, constructed with a slot extending vertically upward from its bottom end, in the line of the suspension rope, a hook member pivoted upon the face of such frame member at a point vertically above the slot and adapted to swing transversely in with its free end across such slot or to swing out free of the slot, and having a weighted extension extending from the opposite side of its pivot and adapted to normally swing the hook clear of the slot in the frame member, and a cord attached at its respective ends to the weighted arm and to the suspension rope, substantially as and for the purposes specified.

1,344,188. FOLDING BED. CHARLES O. PELLETIER, Oakland, Calif. Filed July 31, 1916. Serial No. 112,273. 5 Claims. (Cl. 5—18.)



1. In a folding bed having its frame pivotally secured near the head for tilting movement in a vertical plane, head end down, a foot-piece pivotally connected to the outer end of the frame and forming a support therefor, and means operated by the tilting of the bed for folding the foot-piece into position parallel with the bed-frame and spaced therefrom in such a manner as to engage with the bed clothing.

1,344,189. WATERING DEVICE FOR CATTLE. HUGO C. RASSMANN, Beaver Dam, Wis. Filed Nov. 6, 1918. Serial No. 261,390. 3 Claims. (Cl. 119—75.)



1. In a watering device, the combination with a valved fount, of a bowl member and an animal operated valve operating member disposed in said bowl member, one of said members having flat pivot lugs, and the other of said members having substantially circular openings receiving said flat pivot lugs and also having open slots communicating with said openings, whereby said valve operating device is removably mounted in the bowl.

1,344,190. FRACTION-ADDING MACHINE. CARLOS RUIZ, Hartford, Conn. Filed Aug. 7, 1917. Serial No. 184,846. Renewed Mar. 24, 1920. Serial No. 368,374. 44 Claims. (Cl. 235—74.)



1. In a fraction adding machine, a casing having a display face provided with an opening of elongated form, a dial face having a set of numbers in registration with the said opening, and a shutter plate operative to reduce the portion on the said dial face that will be displayed through the said opening and means for positioning the said shutter plate comprising a fixed pin for coöperating with a slot in the said shutter plate.

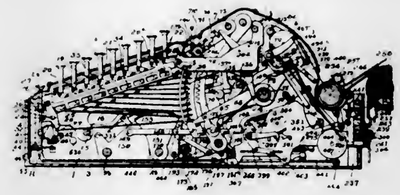
2. In a fraction adding machine, a casing having a dial, a pointer, a shaft supporting the said pointer, a spring tending to rotate the said shaft in one direction, a handle for shifting the said pointer, and a worm and worm gear serving to connect the said handle and shaft.

3. In a fractional adding machine, a handle and a shaft, and a worm and worm gear serving to operatively connect the said handle and shaft, a spring tending to position the said shaft, and a push button device for disconnecting the said worm and worm gear.

4. In a fraction adding machine, a handle, a shaft, a worm and worm gear connecting the said handle and shaft, a spring tending to position the said shaft, a fraction dial face device rotatively mounted on the said shaft, and a push-button operative when depressed to disconnect the said worm and worm gear and simultaneously to lock the said device to the said shaft.

5. In a fraction adding machine, a shaft, a pawl plate carried by the said shaft, a main ratchet plate mounted on the said shaft, and having indications on one face, and an auxiliary ratchet plate, connected to the said main ratchet plate, and a pawl on the said pawl plate for locking the said main ratchet plate to the said shaft by engaging with the said auxiliary ratchet plate.

1,344,191. CALCULATING-MACHINE. MARTIN TEETOR, Des Moines, Iowa, assignor to Teetor Company, Des Moines, Iowa, a Corporation of Iowa. Filed Mar. 3, 1911. Serial No. 612,127. 36 Claims. (Cl. 235—60.)

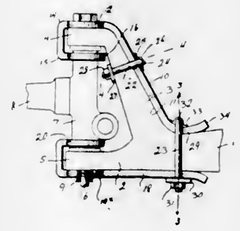


1. In a calculating machine, the combination of a series of numeral wheels, means for selectively operating the same predetermined amounts, carrying over mechanism, means for printing the amounts indicated by said wheels including means for filling in zeros, means for splitting said carry over mechanism, and means for splitting said zero filling mechanism, said last two mentioned means being operated by a single means.

14. In a calculating machine, the combination of a hand lever for operating the machine, a removable key, and means operated solely by the removal of said key to automatically lock said lever against operation.

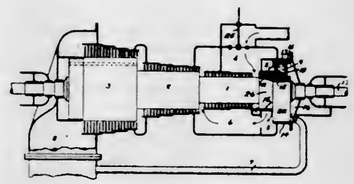
21. In a calculating machine, the combination of a printing mechanism including means for supporting a record sheet in printing position, an adding lever for operating said mechanism to print positive items, a subtracting lever for operating said mechanism to print negative items, connections between said supporting means and each of said levers for shifting said supporting means back and forth by a single operation of either lever, and means for throwing said connections out of operation at will.

1,344,192. REINFORCEMENT FOR WHEEL KNUCKLE-JOINTS. WARREN E. VANDENBURGH and GLEN S. GREMS, Milford, Iowa. Filed Apr. 2, 1919. Serial No. 286,851. 5 Claims. (Cl. 280—96.1.)



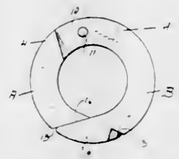
1. The combination with a knuckle or swivel joint including super-imposed axle forks and wheel engaging spindle and sleeves at right angles to the spindle engaging between the forks, of a pair of reinforcing plates, conforming to the forks and engaging their upper and lower remote faces and having portions bent to underlie and overlie the extremities of the forks, and having means receiving the opposite ends of the sleeve, means passing through the extended parts of the reinforcing plates and through the sleeve for assisting in holding the plates in position, and means for fastening the plates to the axle.

1,344,193. BALANCING DEVICE. JAMES WILSON, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 5, 1918. Serial No. 253,109. 20 Claims. (Cl. 253—57.)



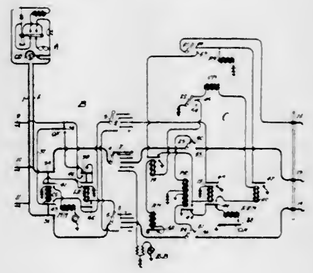
1. In combination, a fluid pressure turbine, a hollow balance piston associated with said turbine, means for admitting fluid to the interior of said piston, and means for delivering said fluid to said turbine.

1,344,194. WASHER. JEFFERSON G. WRIGHT, Connell, Wash., assignor of one-third to William F. Steinmeier, Eltopia, Wash. Filed Aug. 4, 1919. Serial No. 315,214. 4 Claims. (Cl. 85—51.)



1. A washer formed of two semi-circular sections, each section at one end being reduced in thickness to thereby permit these ends of the sections to overlap each other, said overlapping portions being pivoted to each other whereby both sections are disposed and move in the same plane, the free ends of the sections being reduced in thickness to overlap each other, and means on the last named overlapping portions of the sections disposed and operating entirely within the facial planes of the washer, resiliently holding the free ends of the sections in engagement with each other but permitting the free ends of the sections to be drawn apart upon the application of force thereto.

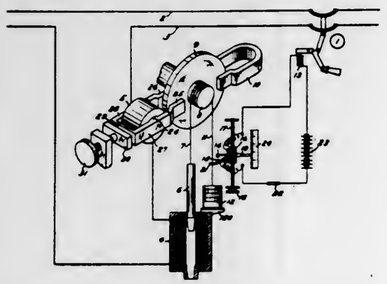
1,344,195. TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1916. Serial No. 86,549. 31 Claims. (Cl. 179—18.)



1. A telephone system including a calling subscriber's line and a called subscriber's line, multiple contacts for

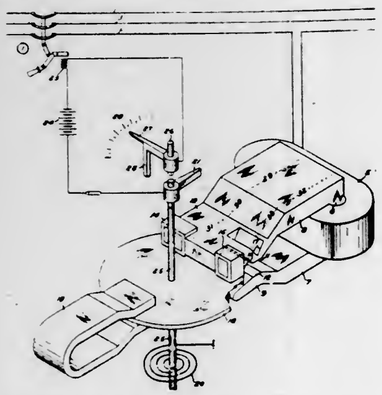
the called line at the exchange, a connector switch provided with adjustable terminals, a relay individual to said connector switch and controlled over the two sides of the calling line in series for electrically adjusting said switch to move said terminals into connection with contacts of the called line, mechanism responsive to currents controlled at the substation of said called line to free said called line without altering the selective position of said connector switch, self-locking means for maintaining said mechanism in its operated position, and a slow-acting relay controlled by said first relay for controlling the release of said connector switch.

1,344,196. ELECTROMOTIVE DEVICE. GEORGE M. ALBRECHT, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 27, 1918. Serial No. 236,949. 10 Claims. (Cl. 200—97.)



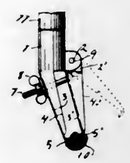
1. In combination with an electrical conductor, an electro-responsive actuating device in circuit with said conductor, a conducting disk driven by said electro-responsive device, a substantially constant-flux-magnet for retarding said disk, an electro-magnet in series with said electro-responsive device adapted to produce a field for retarding said disk, a magnetic shunt for said electro-magnet preventing the appearance of said field, but becoming saturated at a predetermined current in said conductor thereby permitting a field to appear and become effective.

1,344,197. ELECTROMOTIVE DEVICE. GEORGE M. ALBRECHT, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 27, 1918. Serial No. 236,950. 18 Claims. (Cl. 200—97.)



1. In combination with an electrical circuit, an electro-magnet responding to current in said circuit having pole pieces, a movable conducting disk disposed between said pole pieces, a shading coil on one of said pole pieces for producing a torque on said disk in one direction, a second shading coil on said pole piece for producing a torque on said disk in the other direction, and means for preventing action of one of said shading coils until the current in said circuit has reached a predetermined value.

1,344,198. MOP-HEAD. WARREN B. BEAM, Mancelona, Mich. Filed Oct. 24, 1919. Serial No. 333,072. 1 Claim. (Cl. 15—56.)



In a sheet metal mop head, a stationary jaw, a handle socket and hinge wings made integral, the edges of said jaw bent inwardly at right angles forming flanges, a pivotal jaw having side flanges turned outwardly at right angles with the jaw and terminating in a two ply hinge element and the other end turned backwardly forming a flange corresponding with the end flange on the stationary jaw, and a bolt passed through both jaws and arranged for proper adjustment for opening and closing the jaws and securing them in desired positions for securing a fabric cleaning element.

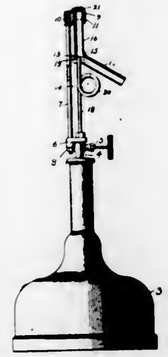
1,344,199. RETARDED SWITCH. HERBERT W. CHENEY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 5, 1918. Serial No. 249,578. 10 Claims. (Cl. 200—97.)



1. In combination, relatively movable coacting contacts, one of which is rotatable, supports for said contacts, and means including a lost motion connection between the rotatable contact and its support whereby when the contacts are moved relatively to each other the rotatable contact will be rotated.

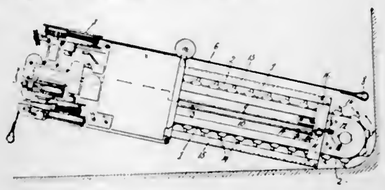
6. In combination with a winding, a plunger for said winding, a tube within which said plunger is adapted to reciprocate, a retarding device attached to one end of said tube, an actuating rod for said retarding device extending into said tube, adjusting means for said retarding device also disposed in said tube, said tube having a portion of its walls cut away whereby the plunger and adjusting means may be manipulated.

1,344,200. LAMP. WILLIAM C. COLEMAN, Wichita, Kans. Filed Sept. 16, 1919. Serial No. 324,056. 4 Claims. (Cl. 67—50.)



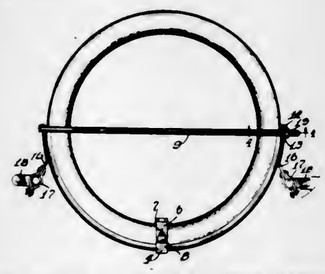
1. In a lamp of the character set forth, the combination with fuel supply means, of a supporting standard extending thereabove, a mixing chamber mounted on the standard, a conduit depending from the mixing chamber alongside the standard and having means for admitting air thereto, a vaporizing tube extending alongside the standard from the fuel supply means and delivering into the conduit, and a burner support carried by the mixing chamber.

1,344,201. MINING-MACHINE. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 6, 1910. Serial No. 585,549. Divided and this application filed Apr. 15, 1912. Serial No. 690,697. Renewed Nov. 12, 1919. Serial No. 337,625. 12 Claims. (Cl. 262—30.)



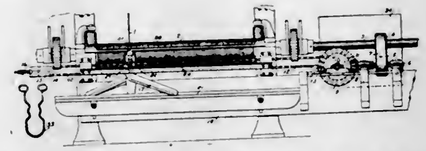
2. A mining machine comprising a frame, a cutter chain, a chain guard therefor slidably engaging said frame, said frame provided with a receiving space for said guard, said guard adapted to slide back into said receiving space as the chain moves forward, the mining machine being supported on the mine floor independently of the chain guard.

1,344,202. ADJUSTABLE TIRE-CARRIER. WALTER R. GREEN, Chicago, Ill. Original application filed Nov. 15, 1916, Serial No. 131,393. Divided and this application filed Oct. 30, 1917. Serial No. 198,232. 10 Claims. (Cl. 224—29.)



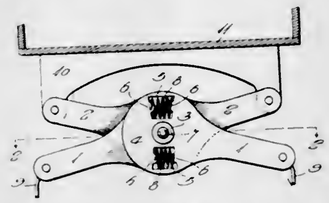
1. A tire carrier comprising a unitary channel member, an expanding and contracting bolt connecting the tops of the channel member, adapted to expand and contract said channel member by bending the same, and adjustable attachable brackets secured to the channel member.

1,344,203. SAW-SHIFTER. WILLIAM G. HAGMAIER, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 18, 1917. Serial No. 187,322. 10 Claims. (Cl. 143—37.)



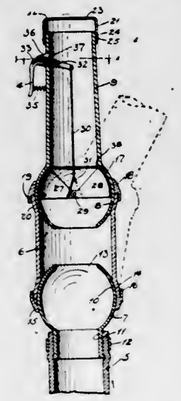
1. In combination, a laterally movable saw, a shifter directly engageable with said saw, a power driven traveling element movable laterally relatively to said saw, and means for temporarily connecting said shifter and said element to move said saw.

1,344,204. VEHICLE-SPRING. ANDREW HALLNER, Arboga, Calif. Filed Apr. 7, 1919. Serial No. 288,109. 5 Claims. (Cl. 267—20.)



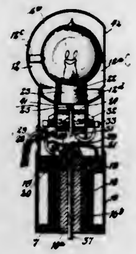
1. A spring device of the class described comprising overlapped levers extending oppositely and slidable longitudinally with respect to each other, said levers also having relative pivotal movement around a common fulcrum point, and at least two coiled springs at opposite sides of said fulcrum point for controlling the sliding and pivotal movement of the levers, said levers having pairs of opposed abutments contacting with the ends of said springs.

1,344,205. PRODUCT-PICKING NOZZLE. HALL H. HOLDAWAY and THOMAS RING GABEL, Los Angeles, Calif., assignors of two-thirds to Henry P. Jones, Los Angeles, Calif., and one-third to said Gabel. Filed Jan. 27, 1917. Serial No. 145,000. 4 Claims. (Cl. 56—32.)



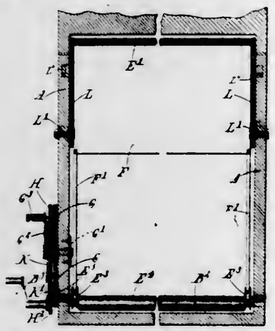
1. A picker nozzle comprising hollow sections having hollow universal joints connecting the same, a valve mechanism mounted in one of the joints, and means extending outside the nozzle for controlling the valve mechanism.

1,344,206. EMERGENCY-LAMP. WILLIAM J. KOENIG, Brooklyn, N. Y.; Annie Allen, administratrix of said William J. Koenig, deceased. Filed Dec. 3, 1918. Serial No. 265,126. 2 Claims. (Cl. 173—341.)



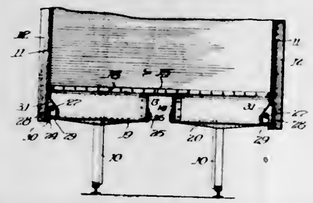
1. In an emergency lamp, the combination of an electromagnet, a disk of insulating material at one end of the magnet through which the terminals of the magnet windings pass, a movable contact member in connection with one of said terminals, a lamp socket having a pair of supporting members straddling said switch and fixed to said disk, circuit wires leading to the magnet, and means projecting through to the outside of the lamp casing to actuate said movable switch.

1,344,207. FEEDING AND MEASURING DEVICE FOR ROLLS OF SENSITIZED STRIPS EMPLOYED IN PHOTOGRAPHIC CAMERAS. LEONARD MILES, Coventry, England. Filed July 7, 1919. Serial No. 309,015. 5 Claims. (Cl. 95—31.)



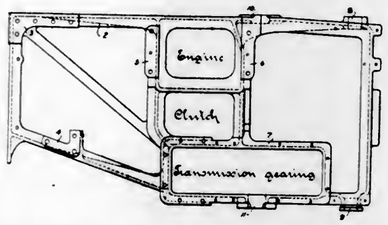
1. In feeding and measuring devices for rolls of sensitized strip employed in photographic cameras, the combination of a magazine, a spool for the sensitized strip, a winding-off roller, means for guiding said strip in the focal plane, a blind movable at will to uncover said strip, an index visible from without the camera indicating the position of said blind, and means for interlocking the bling-actuating device with the strip winding-off device, substantially as set forth.

1,344,208. DROP-DOOR FOR RAILWAY-CARS. JOHN O. NEIKIRK, Lombard, Ill., assignor to Rodger Ballast Car Company, a Corporation of Maine. Filed Aug. 6, 1917. Serial No. 184,600. 10 Claims. (Cl. 105—280.)



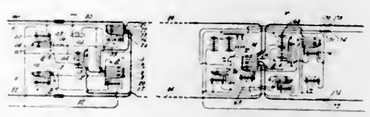
1. A drop door for railway cars, the top portion of which is in a single plane and the under portion of which is provided with corrugations extending in the line of flow of the dumpable material and being deeper at an intermediate point than at other points.

1,344,209. TRACTOR. JOHANN FRIEDRICH MAX PATITZ, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 18, 1917. Serial No. 163,306. 2 Claims. (Cl. 280—106.)



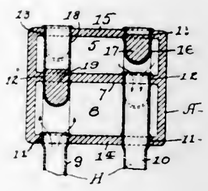
1. As an article of manufacture, a one-piece cast-metal tractor frame having a plurality of local projecting pads provided with surfaces lying in a common plane beyond all other parts of the frame between said surfaces, whereby a planer tool may be utilized to finish said pads and produce said surfaces without striking any other part of said frame.

1,344,210. AUTOMATIC TELEPHONE-REPEATER. RODNEY G. RICHARDSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 23, 1916. Serial No. 116,483. 23 Claims. (Cl. 179—23.)



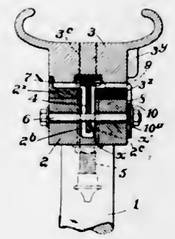
1. In an automatic telephone system, the combination with a circuit controlling relay, of a condenser, and a second relay for charging and discharging said condenser to thereby operate said controlling relay, the path for discharging currents including said controlling relay, and conductive paths from the opposite sides thereof to the opposite sides of the said condenser.

1,344,211. STEAM-SUPERHEATER. WILLIS L. RILEY, Mellen, Wis. Filed Nov. 22, 1912. Serial No. 732,885. Renewed Aug. 17, 1915. Serial No. 46,015. 4 Claims. (Cl. 122—462.)



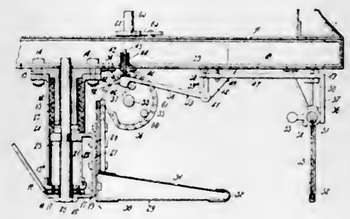
4. A superheater having a header consisting of a pipe divided into two longitudinal compartments, one compartment being connected with a source of saturated steam and the other compartment connected with a duct for superheated steam, the front and back walls and partition having two sets of openings each set comprising three openings in direct alinement, a superheater coil having one end rolled or expanded into one opening of the first set and the other end rolled or expanded into two openings of the second set, a thimble rolled or expanded into the remaining opening of said first set and another thimble rolled or expanded into the remaining two openings of said second set.

1,344,212. DEMOUNTABLE RIM. WILLIAM HENRY ROUNDS, Sioux Falls, S. D. Filed Dec. 4, 1919. Serial No. 342,390. 2 Claims. (Cl. 301—17.)



1. In combination, a wheel rim, having a recess and a transverse bolt opening intersecting said recess, a demountable rim having a locking fin adapted to enter said recess, said wheel rim and said demountable rim having spaced lugs provided with circumferentially disposed interengaging projections and recesses and a bolt removably engaging the bolt opening in said wheel rim and fin.

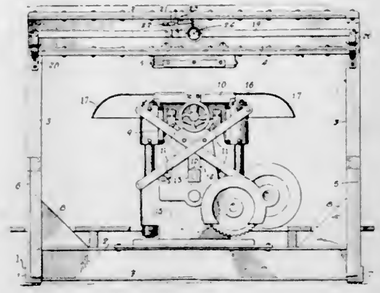
1,344,213. CAR-FENDER. HENRY SCHURR, Philadelphia, Pa. Filed Feb. 26, 1920. Serial No. 361,381. 6 Claims. (Cl. 293—35.)



1. Apparatus of the character described including a plunger; means for guiding the plunger in a substantially vertical direction, a fender secured to said plunger; means for automatically moving said plunger downwardly; means for holding said fender against the action of said moving means and including a rotatable shaft, a winding drum on said shaft, a flexible device connected to said fender and said drum, and a detent member operative to prevent rotation of said drum; tripping means operative to move said detent member into an inoperative position to permit said plunger to be moved by its moving means; and means movable in conjunction with said winding drum and in a position adapted to engage said detent member after the tripping action to limit the downward movement of the fender; substantially as described.

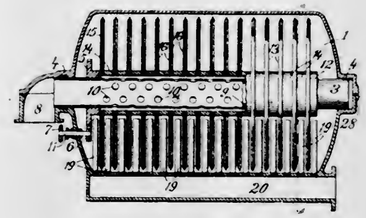
1,344,214. LEATHER-PRESS. JAMES T. SMITH, Newark, N. J. Filed Oct. 9, 1919. Serial No. 329,574. 13 Claims. (Cl. 101—3.)

1. In a press of the character described, the combination of a polysided frame, a head mounted upon one side thereof, a movable bed mounted upon that side of said frame opposite the said head to coöperate therewith, said bed being spaced from all sides of said frame and free from all sides thereof except that side upon which it is mounted, so that the work being operated upon can



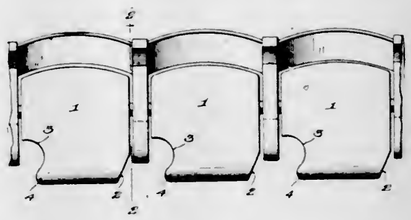
be slid over the bed and those portions of the work not immediately on the bed depend over the edges thereof into an out-of-the-way position.

1,344,215. FILTER. ERNEST J. SWEETLAND, Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation, a Corporation of Delaware. Filed July 2, 1913. Serial No. 776,901. 5 Claims. (Cl. 210—200.)



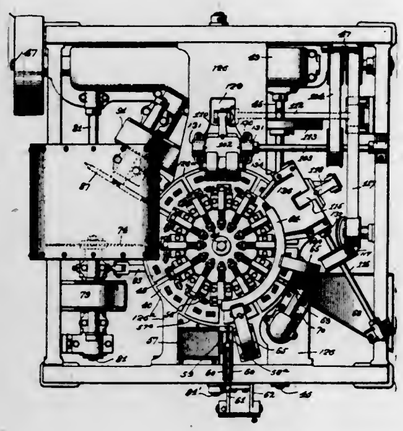
1. In a filter, in combination, a casing, a plurality of spaced filter leaves therein, and an inclined pipe interposed between adjacent leaves, said pipe having means for projecting a uniform fluid stream against a face of said leaves and toward the bottom of the casing.

1,344,216. AUDITORIUM-CHAIR. ROBERT GOTWALS TRUCKSESS, Millersville, Pa. Filed Feb. 5, 1920. Serial No. 356,533. 3 Claims. (Cl. 155—33.)



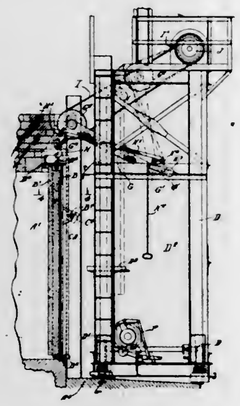
1. An auditorium chair the seat of which has each of its front corners cut away, one on a diagonal line and the other on a substantially compound curve line, whereby, when placed in a row, the adjacent cutaway portions of adjoining seats will coöperate to form leg receiving spaces into which the legs of the occupant may be turned to afford a clear passage way in front of the seats.

1,344,217. CLOTHESPIN-MACHINE. BENJAMIN W. TUCKER, South Orange, N. J., assignor to Henry J. Kahrs, New York, N. Y. Filed Aug. 19, 1919. Serial No. 318,452. 16 Claims. (Cl. 144—9.)



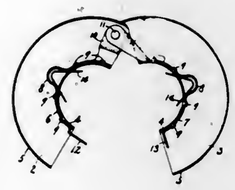
1. In a clothes-pin-making machine, a turntable and means for intermittently rotating it, blank-clamps carried thereby to hold the pins radially with respect to the turntable, means for feeding the blanks to said clamps and means for discharging them therefrom after they have been operated upon, and mechanisms arranged around the turntable for first forming a flared slot in the end of the blank and subsequently cutting an inclined kerf longitudinally through each leg of the blank.

1,344,218. COKE-OVEN-DOOR MECHANISM. LOUIS WILPUTTE, New Rochelle, N. Y., assignor of two-thirds to Alice A. Wilputte, New Rochelle, N. Y. Filed Oct. 16, 1918. Serial No. 258,332. 6 Claims. (Cl. 212—4.)



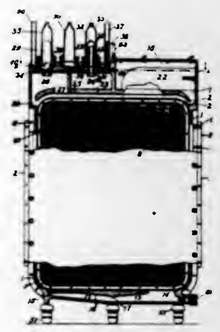
2. The combination with a coke oven structure comprising a horizontal coking chamber, a track extending transversely of the length of the chamber in front of one end of the chamber and a door removably closing said chamber end, of a carriage running on said track, an arm pivotally connected to said carriage to turn with respect to the latter about a horizontal axis at approximately the level of the top of the door in the closed position of the latter, means for detachably connecting the arm to the top of the door, and means comprising a hoisting drum mounted on the carriage and a cable connecting the hoisting drum to the lever for swinging said arm about its pivotal connection to the carriage to move said door upward and outward from the oven structure.

1,344,219. FLOOR OR CEILING PLATE. ALLAN J. BEATON, New Britain, Conn., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 6, 1920. Serial No. 371,591. 1 Claim. (Cl. 126—317.)



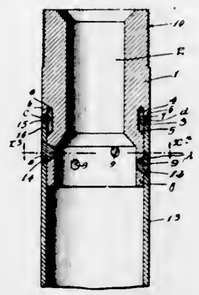
A floor or ceiling plate comprising two segmental body members coöperative to form a ring, each of the body members having a flange along its inner edge, approximately semi-circular strips fitted edgewise against the body member and engaging the flanges, the latter having integral ears bent over the semi-circular strips to hold the same in place and said semi-circular strips being hinged together, the strips being outwardly bowed between their ends the lugs being situated at opposite sides of the respective bowed portions, and bowed springs the bowed portions of which are situated within the other bows, the legs of the bowed springs extending through slots in the flanges.

1,344,220. ELECTROLYTIC APPARATUS. EDWARD O. BENJAMIN, Newark, N. J., assignor to International Oxygen Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 1, 1917. Serial No. 183,828. 50 Claims. (Cl. 204—5.)



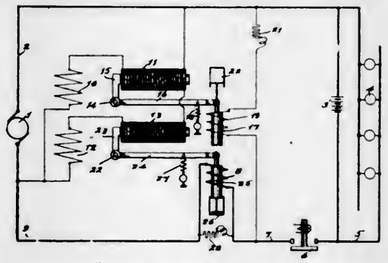
2. An electrolytic cell unit consisting of a flat, watertight metallic tank and means for insulating opposite walls of the tank so that the inner surfaces of said insulated walls may be utilized as the working electrodes, said walls having both side edges extended laterally to form electric terminals, whereby both edges of both electrodes may be bolted to similar terminals of a similar cell unit.

1,344,221. DRILL-STEM. ROBERT LEE BURNS, Taft, Calif., assignor of one-half to Charles E. Stratton, Los Angeles, Calif. Filed Feb. 18, 1918. Serial No. 217,834. 12 Claims. (Cl. 285—146.)



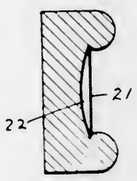
1. A drill pipe coupling comprising a tubular body having an external annular groove for the reception of molten welding metal.

1,344,222. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916. Serial No. 128,826. 12 Claims. (Cl. 171—229.)



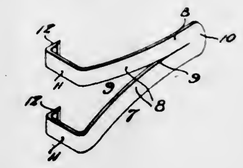
1. The combination with a generator having a plurality of field exciting means, of automatic means for regulating a plurality of factors of the output of said generator comprehending means for affecting certain of said exciting means to control one factor of the output and other of the exciting means to control another factor of the output.

1,344,223. SHELF-FACING. GEORGE H. E. DAVIS, Lynn, Mass. Filed Nov. 20, 1919. Serial No. 339,259. 2 Claims. (Cl. 40—16.)



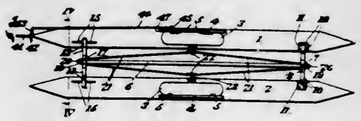
1. As an article of manufacture, a shelf facing composed of a one-piece elongated strip corresponding in width to the thickness of a shelf, and having a flat relatively wide inner side face formed to be seated on the outer edge of the shelf, longitudinal parallel beads formed on the outer side of the strip, and extending from end to end of the strip, and a relatively narrow outer face between said beads, and extending from end to end of the strip, the beads being undercut and intersecting the opposite edges of said outer face to form grooves adapted to receive the opposite edges of a flexible rectangular label, and releasably confine the label in a flat form between said beads.

1,344,224. BUILDER'S-LINE HOLDER. CHARLES M. GROSS, Mount Union, Pa. Filed Jan. 29, 1920. Serial No. 354,995. 3 Claims. (Cl. 24—130.)



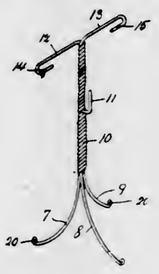
2. A line holder of the character described including an extension provided with a tapered opening, said extension having arms extending at an angle to the plane thereof for engaging the side of a wall, said arms having hooks extending substantially in the direction of the taper of said opening; substantially as described.

1,344,225. WATER-SKATE. GUSTAV HALBOW, Brooklyn, N. Y. Filed Oct. 2, 1919. Serial No. 328,040. 8 Claims. (Cl. 9—21.)



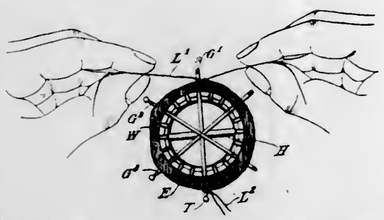
1. A device of the class set forth comprising a pair of floats shiftable endwise relatively to each other, a pair of standards on each float adjacent opposite ends of the float, four links pivotally connected at their upper ends to the upper ends of the standards and pivotally connected together in pairs at their lower ends, a bar extending longitudinally of the floats and supported by the pivotal connections between the lower ends of the pairs of links, two impeller-blade carriers pivotally held intermediate their ends to standards adjacent the same end of different floats, means forming a pin and slot connection between the upper end of each carrier and the link connected with the standard supporting the carrier, and impeller blades mounted on the lower ends of the carriers.

1,344,226. STAND FOR BICYCLES. ARTHUR HANTSCH, Linden, N. J. Filed Jan. 3, 1920. Serial No. 349,144. 1 Claim. (Cl. 208—91.)



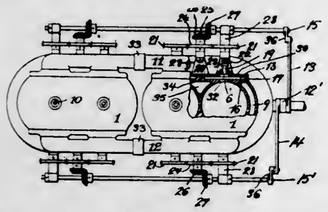
A bicycle stand comprising three members twisted together and bent to form foot members below the twisted portions, one of said members projecting from the twisted portions and bent to form an upright hook, the other two members being bent in opposite directions above the twisted portions, the free ends of said two members being bent back upon the members to form two laterally disposed opposed hooks.

1,344,227. INSTRUMENT FOR THE REMOVAL OF HEMORRHOIDS AND RESECTION OF PROLAPSUS RECTI. ALEXANDER WALKER HAUMAN, Cape Town, South Africa. Filed Apr. 30, 1919. Serial No. 293,886. 8 Claims. (Cl. 128—334.)



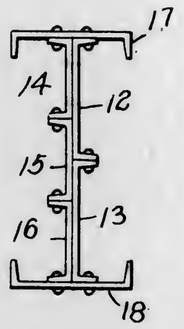
1. A surgical instrument comprising a hollow member having a front part provided with an external circumferential groove intersected by longitudinal slits communicating with holes for the passage of fixing and stitching needles.

1,344,228. COMBUSTION-ENGINE. WILLIAM C. HURST, New York, N. Y. Filed July 1, 1916. Serial No. 107,073. 2 Claims. (Cl. 123—59.)



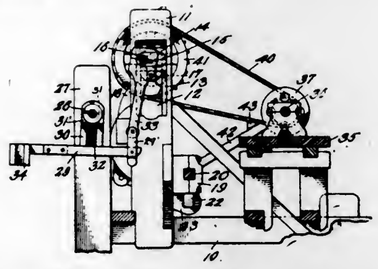
1. The combination of a plurality of cylinders each cylinder having a port in a wall thereof, disk valve members respectively provided with openings corresponding to said ports, said disk valve members being otherwise imperforate, common means disposed exteriorly of said valve members for sealing said valve members, a stud fixed to each of said valve members, bracket means fixed exteriorly to said cylinders and supporting said studs, resilient means coacting with said bracket means for sealing said valve members respectively, a gear carried by each of said studs and a common gearing shaft for actuating said gears in predetermined time relation.

1,344,229. GIRDER. WILLIAM S. HUTCHINSON, Bethlehem, Pa. Filed Oct. 5, 1917. Serial No. 194,874. 5 Claims. (Cl. 189—37.)



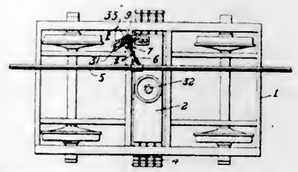
1. A girder in which any section of the web comprises a plurality of channels, longitudinally arranged and back to back, with the back of one of said channels lapping the longitudinal joint between others of said channels.

1,344,230. CEMENT-BLOCK TAMPER. CHARLES H. JOHNSON, Anoka, Minn. Filed June 9, 1916. Serial No. 102,709. 7 Claims. (Cl. 25—41.)



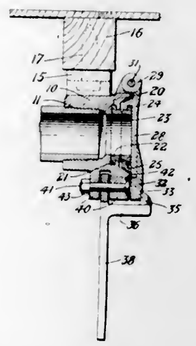
3. In a tamping machine, a frame having spaced vertical guides, bearings slidably mounted in said guides, a crank shaft journaled in said bearings, a second shaft carried by the frame parallel to the crank shaft, hammer arms pivotally connected to the second shaft, pitmen connecting the hammer arms to the crank shaft cranks, and means to engage the bearings and raise them in the guides.

1,344,231. SAFETY ATTACHMENT FOR RAILWAY-CARS. JAMES D. KING, Meridian, Miss. Filed July 1, 1919. Serial No. 307,953. 6 Claims. (Cl. 246—170.)



6. In a safety attachment for railway cars, the combination of the air line pipe of an air brake system, an outlet from said pipe, a movable valve member for opening and closing the said outlet, said valve member having an arm projecting therefrom, a truck bolster, a bracket projecting from said bolster and having a curved slot therein concentric with the center of said bolster into which the said arm projects, the length of said slot being such that its opposite ends will not contact with the said arm except when there is abnormal relative movement between the said bracket and bolster and the said arm.

1,344,232. SAFETY ATTACHMENT FOR RAILWAY-CARS. JAMES D. KING, Meridian, Miss. Filed July 1, 1919. Serial No. 307,954. 9 Claims. (Cl. 246—170.)



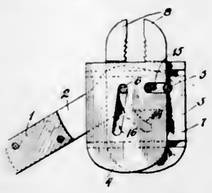
1. In a safety attachment for railway cars, the combination of the air line pipe of an air brake system having a bleed pipe projecting therefrom, a valve member pivotally supported at the outer end of said bleed pipe for closing the same, said valve member having a projection from its edge, spaced lugs projecting laterally from the bleed pipe structure, and an arm pivotally secured between said lugs and depending therefrom, said arm having a projection adjacent its pivot having a part adapted to engage the projection from the said valve member, substantially as described.

1,344,233. SELF-ADJUSTING CURTAIN-DRAPER. JOHN LEVI KINIKIN, Garden City, Kans. Filed Dec. 23, 1919. Serial No. 346,914. 3 Claims. (Cl. 156—33.)



3. A curtain draper composed of two opposing resilient U-shaped members, one of the ends of each of said members being bent to constitute a clamp portion for engagement with the edge of a window casing, a tension device for drawing the said ends together, whereby the clamp portions are caused to grip the opposite edges of the window casing, one of the said resilient members being of greater length than the other and held overlapped and closely against the outer or free end of the other resilient member.

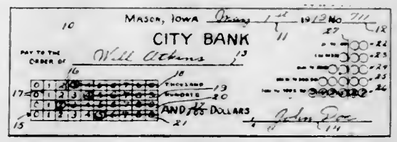
1,344,234. WRENCH. WILLIAM A. KIRKPATRICK, Seattle, Wash. Filed Dec. 3, 1919. Serial No. 342,097. 2 Claims. (Cl. 81—126.)



2. A wrench including a handle, an operating jaw member, a pivot for pivotally mounting said member in the handle, the said jaw member having a slot circumferentially disposed to the pivot, a sliding jaw member mounted in the handle having a transverse slot and a longitudinal slot, the transverse slot being adapted to permit movement of the pivot relative to the sliding jaw member and a pin passing through the longitudinal slot of the sliding jaw member and the slot of the operating jaw member whereby a movement of the handle about the pivot will cause a relative movement of the jaw members.

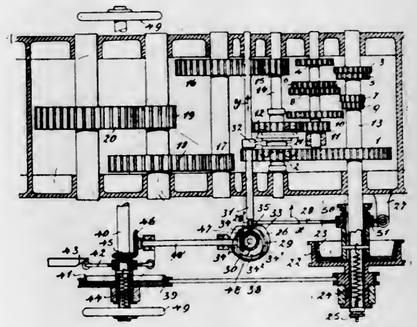
1,344,235. BANK-CHECK. JOHN KOPECKY, Mason City, Iowa. Filed May 21, 1919. Serial No. 298,578. 1 Claim. (Cl. 283—9.)

A check having inscribed upon its face a plurality of horizontal and vertical lines arranged in intersecting relation and defining a panel consisting of a plurality of horizontal rows of squares, the squares in the successive rows having inscribed therein numbers arranged in sequence and designating in the respective rows "thousands," "hundreds," "tens," and "units" representing the dollars in the amount of the check, said check having further inscribed upon its face a plurality of circles arranged in horizontal rows with the number of circles in



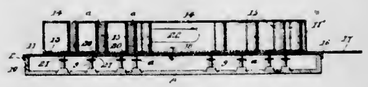
each successive row decreasing by one, the circles in the successive rows being adapted to have inscribed therein numerals designating the amount in dollars and cents of the check and conforming to the amount designated by cancellation of the proper squares in said panel, and the check having further inscribed upon its face adjacent each row of circles numbers indicating the maximum and minimum amounts writable in the row.

1,344,236. MACHINE-TOOL. HANS GEORG KRAUSS, Munich, Germany. Filed May 18, 1917. Serial No. 169,401. 6 Claims. (Cl. 74—59.)



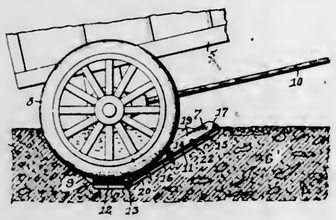
1. In mechanism of the character described, the combination with a reciprocatory member, of separate gearing for moving the same in opposite directions including a driving shaft adapted to rotate in but one direction, driving means for imparting rotary motion to said shaft, means for periodically causing reversal of direction of motion of said reciprocatory member, and means for disengaging said driving means from said driving shaft and holding it out of engagement during such reversal.

1,344,237. WASHER-SETTER FOR RUBBER-HEEL MOLDS. FRANK KRIVOSKY and JOSEF STOYKOVICH, Akron, Ohio. Filed Aug. 18, 1919. Serial No. 318,175. 1 Claim. (Cl. 18—1.)



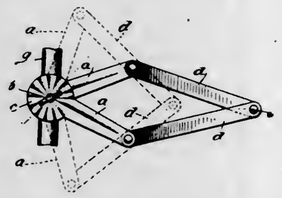
The combination with a heel mold comprising a bottom plate provided with washer supporting pins of upwardly tapering formation throughout their lengths, of means for simultaneously placing a washer upon each pin, the continuously tapered sides of the pins determining the relative positions of the washers supported thereon.

1,344,238. SAFETY-DRIVER FOR ROAD-VEHICLES. WILLIAM LAVALLEE, Central Falls, R. I. Filed Apr. 20, 1920. Serial No. 375,357. 5 Claims. (Cl. 238—14.)



1. A safety driver for the purpose described, comprising a straight trough shaped body section having transverse ribs on the bottom, a corresponding straight trough shaped section hinged to one end of the body section and a corresponding curved trough shaped section detachably secured to the other end of the body section.

1,344,239. SPACER FOR PANELS OF DISPLAY-FIXTURES. HECTOR V. LOUGH, Hartford, Conn., assignor to Universal Fixture Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 16, 1918. Serial No. 262,859. 3 Claims. (Cl. 211—14.)



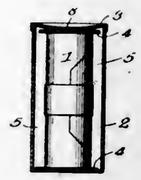
1. In a display fixture, the combination of a support, a plurality of swinging panels mounted on the support, and a spacer carried by one of said panels comprising a pair of relatively movable arms pivotally connected with each other and with an edge of the panel at one end, a pair of links pivotally connected with the free ends of said arms, an elongated pivot pin connecting the outer ends of the links, and a sleeve of yieldable material surrounding said pin at one side of the links and adapted to engage an adjacent panel.

2. The combination with a swinging panel of a display fixture of a spacer comprising a pair of arms each having a hub portion formed with radially extending grooves and ridges, a clamping screw extending axially through said hub portions and threaded into one edge of the panel for adjustably locking the arms to each other and to the edge of the panel, a pair of links pivotally connected with the free ends of the arms, an elongated pivot pin connecting the outer ends of the links together, and a pad of yieldable material surrounding said pin at one side of the links.

1,344,240. METHOD OF PRESERVING SENSITIZED PHOTOGRAPHIC SURFACES AND ARTICLE. FRANCIS P. MCCOLL, Ridgewood, N. J., and WALTER WILLIAM WILLISON, New York, N. Y., assignors to Thermokept Products Corporation, New York, N. Y., a Corporation of Maine. Filed Jan. 31, 1918. Serial No. 214,620. 2 Claims. (Cl. 99—8.)

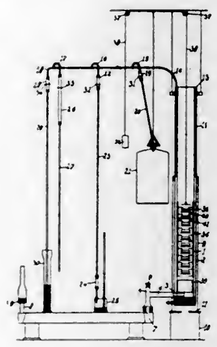
1. The method of preserving a sensitized photographic surface consisting in placing it with its support in a container, exhausting the air from the container, sealing a cover on the container while the air is exhausted from the container, whereby when exposed to atmospheric pressure the cover will dish into engagement with the support for the photographic surface.

2. An article of manufacture comprising a container from which the air is exhausted, a photographic film, and



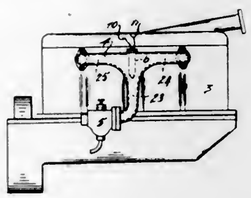
a support for said film within said container the cover of said container having a flexible portion to maintain the film and its support stationary relatively to the container.

1,344,241. DRYING APPARATUS. SIJTSE HERO MEIHUIZEN, Veendam, Netherlands. Filed Mar. 9, 1918. Serial No. 221,363. 5 Claims. (Cl. 34—30.)



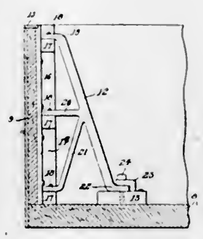
5. A drying apparatus comprising an open-ended drying-chamber, means for heating and simultaneously creating a draft through the chamber, a frame movable vertically within the drying-chamber, trays carried by the frame, and receptacles supported by certain of the trays, said trays being arranged to direct the draft within the drying-chamber to the top of said receptacles.

1,344,242. ELECTRICAL PREHEATING ATTACHMENT FOR AUTOMOBILE INTAKE-MANIFOLDS. GEORGE T. NEWELL, Jr., Beverly, N. J. Filed Feb. 5, 1920. Serial No. 356,372. 3 Claims. (Cl. 123—122.)



1. In combination, an intake manifold consisting of a duct for the passage of a combustible mixture and branches therefrom, and an electrically heated device carried by the top wall of the manifold and located within the same, said device extending toward said duct, and means carried by the chamber at its lower end arranged to part the flow of an incoming combustible mixture.

1,344,243. FREIGHT-CAR. JOHN ORAVEC, Galeton, Pa. Filed Mar. 5, 1920. Serial No. 363,425. 4 Claims. (Cl. 105—363.)



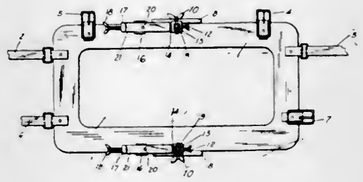
1. A freight car of the type described comprising a bottom, removable side and end walls, means extending between the walls and bottom for rigidly connecting the same, said means including a plurality of brackets fixed to said walls, a plurality of blocks fixed to the bottom, and connecting means pivoted to said brackets and detachably connected to said blocks.

1,344,244. MODIFICATION OF PLANES, WHEN STATIONARY AND MOVING. JOHN THOMPSON PATTERSON, Detroit, Mich. Filed Dec. 7, 1918. Serial No. 265,811. 22 Claims. (Cl. 244—31.)



11. In an aircraft or the like, a beam, an upper rib batten, a lower rib batten and a cam supported from said beam for modification of the curvature of said battens while maintaining the distance between said battens substantially unchanged.

1,344,245. UMBRELLA OR PARASOL HOLDER. ARTHUR EDMUND PIERCE, Portland, Oreg. Filed July 16, 1919. Serial No. 311,183. 3 Claims. (Cl. 135—13.)



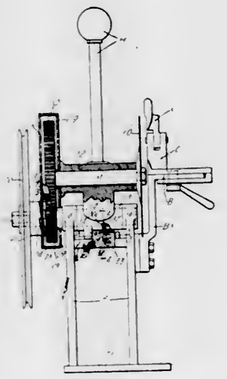
2. In an umbrella or parasol holder, the combination of a breast-plate, horizontal arms swingingly mounted at the upper and the lower edges, means for locking said arms independently in various positions, clamps slidably secured on said arms, comprising a sleeve, a base member pivoted laterally to the sleeve, a leaf spring attached to one end of the base member, a U-shaped strap hinged with one leg to the other end of the base member, and having the other leg held in place by the leaf spring, to be instantly released by a pressure on the spring, the whole device adapted to hold the handle of an umbrella or parasol at various angles of inclination, substantially as described.

1,344,246. CONVEYER. ROBERT RAFN, Moss, Norway. Filed Oct. 15, 1918. Serial No. 258,253. 2 Claims. (Cl. 193—4.)



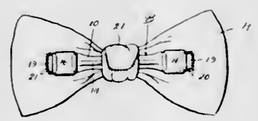
1. A system of conveying a series of objects simultaneously to a plurality of discharge stations, comprising an endless belt interconnecting the said discharge stations with a charging station, means disposed above and laterally of the belt for guiding the objects on the belt, an opening in the guiding means at each discharge station for permitting the removal of an object and an abutment at the remotest discharge station above the belt and in the path of the objects conveyed thereby.

1,344,247. HEEL-CUTTER. CHRISTOPHER S. REAMY, Los Angeles, Calif. Filed May 12, 1919. Serial No. 296,452. 4 Claims. (Cl. 12—42.)



4. In a cutting device, a non-rotating shaft, a saw swingingly mounted on the shaft, a gear on the shaft and driving connection between said gear and the saw, a power driven element on the shaft, said gear and power driven element having interengaging driving means adapted to be engaged by relative longitudinal movement, and means whereby swinging motion of the saw causes relative longitudinal movement of the driving means and the gear.

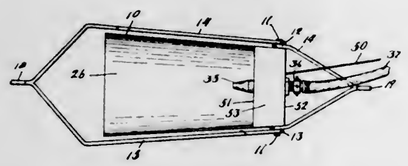
1,344,248. NECKTIE FORM AND HOLDER. WILLIAM A. SMITH, Springfield, Mo. Filed Sept. 19, 1919. Serial No. 324,815. 4 Claims. (Cl. 2—84.)



3. In combination with a tie body of bow form, a shield member formed as an arcuate plate disposed at the rear side of the tie body, a forwardly extending loop of rigid material carried by said shield member at its center and

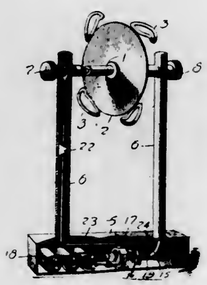
encircling the center of the tie body beneath the central strip of the tie body, and a pair of spring arms pivoted upon said shield member within said loop and secured to the rear face of the tie body.

1,344,249. SEWER-CLEANING APPARATUS. WILLIAM H. STEWART, Boston, Mass. Filed Jan. 8, 1919. Serial No. 270,227. 7 Claims. (Cl. 182—2.)



1. A sewer cleaning bucket having a curved forward cutting edge, and means to direct a stream of water conforming to the cutting edge from said cutting edge of the bucket.

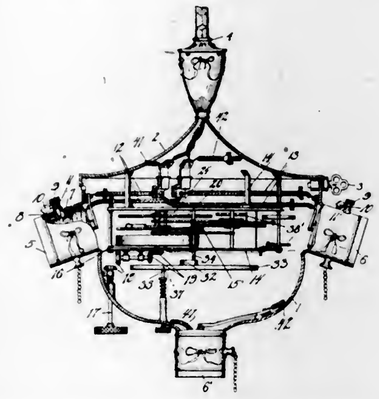
1,344,250. ADVERTISING DEVICE. LEANDER DAVIS WHEATLEY, Pendleton, Oreg. Filed Aug. 8, 1917, Serial No. 185,095. Renewed Nov. 7, 1919. Serial No. 336,472. 3 Claims. (Cl. 46—37.)



1. An advertising device comprising a shaft having recessed ends, a wheel on the shaft, loop shaped tubes on the peripheries of the wheel, each tube having a small amount of mercury therein, a supporting frame comprising a hollow base containing a motor and hollow uprights communicating with the base, set screws threaded through the uprights and having pointed ends engaging the recesses, one of the screws having the pointed end journaled on the screw, and a flexible shaft connecting the motor to the point and passing through the upright and the screw, a lever pivoted intermediate its ends in the other upright and connected to the controlling mechanism of the motor at its lower end to stop the rotation of the point when the upper end of the lever is swung outward, the upper end of the lever engaging the adjacent set screw to be operated thereby when the said set screw is turned outward.

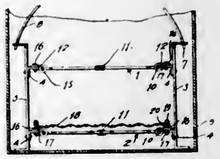
1,344,251. ELECTROLIER. LORENA M. WOOD, Spokane, Wash. Filed May 25, 1918. Serial No. 236,615. 1 Claim. (Cl. 194—6.)

In an electrical fixture the combination of a closed bowl, a revoluble disk and actuating means therefor in the bowl, a spring pressed plunger-stop supported in the bowl accessible from the exterior of the bowl for release and normally engaging said disk to hold the same, a coin chute formed with resilient conductor side plates included in an electric circuit closed during the presence of a coin, and a



cam on the revoluble disk adapted to separate the side plates at a predetermined time, for the purpose described.

1,344,252. STERILIZER-RACK. HERMINE BAEHR, Baltimore, Md. Filed June 27, 1917. Serial No. 177,337. 1 Claim. (Cl. 53—1.)



An invertible device of the character described comprising a plurality of supporting bars, inwardly extended supporting brackets carried by said supporting bars at points adjacent their upper and lower ends, upper and lower horizontal frames formed of wire and each having a marginal wire, a plurality of connected bottle receiving rings positioned in and rigidly connected with the marginal wires of the frames, the rings of one frame being of greater diameter than the rings of the other frame, connecting devices carried by the brackets and engaging the marginal wires of the frames to support the frames between the supporting bars in spaced and superposed relation and a bottle supporting tray positioned between the frames and resting upon the brackets of a selected frame with the other frame positioned above the tray.

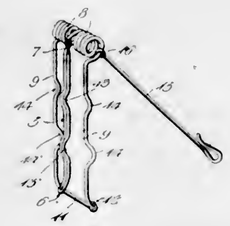
1,344,253. SAFETY ATTACHMENT FOR GAS-STOVES. HERMINE BAEHR, Baltimore, Md. Filed July 19, 1917. Serial No. 181,560. 1 Claim. (Cl. 126—42.)



A safety attachment comprising a semi-cylindrical locking member, means pivotally and detachably securing one end of the locking member to a stove, said locking member capable of being positioned to receive within the same

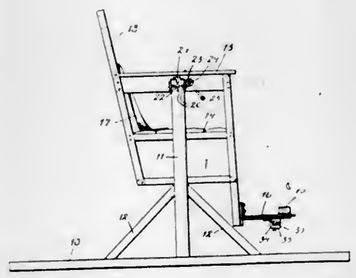
the handles of the gas controlling valves of the stove, said locking member having notches in one edge thereof to permit the handles to project out of the same, and a spring pressed locking element in the other end of the locking member and adapted to engage one of the valves.

1,344,254. CLOTHESPIN. BART M. BARRICKMAN, Portland, Oreg. Filed Nov. 23, 1918. Serial No. 263,845. 4 Claims. (Cl. 24—139.)



4. A clothes pin comprising resiliently connected jaws, one of which includes spaced shanks terminally connected and of greater length than the other jaw for movement of the latter jaw between them for coöperation with their opposite faces selectively.

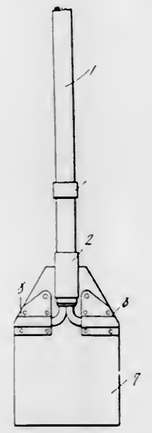
1,344,255. CHAIR. BERNARD T. BECKMAN, Lowell, Ind., and HENRY J. BECKMAN, Waukegan, Ill. Filed Sept. 19, 1919. Serial No. 324,775. 5 Claims. (Cl. 46—69.)



1. A device of the character described comprising a stationary supporting frame, a chair pivoted at its sides within said frame, adjustable means for weighting the chair to overbalance it so that it will normally remain in upright position though occupied, and gear actuated means operated by the occupant whereby to rotate the chair with a somersaulting motion.

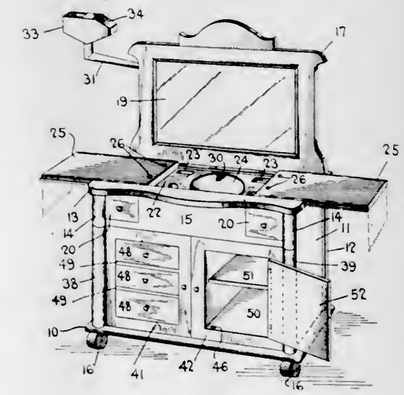
1,344,256. COMBINATION HOE AND SPADE. ZACHARY T. BLACKMAN, Long Beach, Miss. Filed Feb. 9, 1918. Serial No. 216,266. 1 Claim. (Cl. 55—38.)

The combination with a handle and a T-shaped member extending from one end of the handle, a wear plate extending longitudinally along the handle, and a longitudinal series of recesses within the handle and opening through the plate, said recesses being extended obliquely into the handle toward that end from which the T-shaped member extends, of a blade, face plates thereon forming bearings for the reception of opposed arms of the T-shaped member, a rod pivotally connected to the blade at one end thereof, said rod having its free end portion bent at an angle for insertion through the wear plate and into any one of the recesses in the handle, and a collar slidable



upon the handle for engaging the arms to hold the bent end thereof seated within a notch.

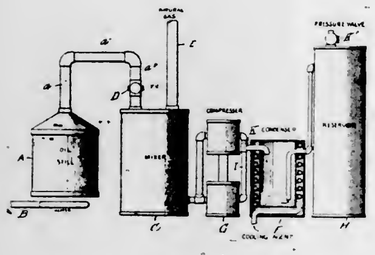
1,344,257. FOLDING BED, DRESSER, AND WASH-STAND. OTTO B. BLOCK, Shippensburg, Pa., assignor of one-fourth to Charles E. Hoke, Shippensburg, Pa. Filed June 1, 1917. Serial No. 172,224. 1 Claim. (Cl. 5—52.)



An article of manufacture comprising a body including upper and lower walls, corner posts interposed between the upper and lower walls of the body and each including mating sections of different lengths normally disposed in axial alinement and of the same cross sectional diameter, the upper post sections being permanently secured to the upper wall of the body and the lower post sections being longer than the upper post sections and pivotally mounted for turning movement between said short post sections and the lower wall of the body, a front wall of the same width as and forming a rigid connection between the inner walls of the short post sections, and movable compartment sections each including a rigid front of less thickness than the adjacent movable post section and rigidly secured to the periphery thereof and movable therewith, said compartment sections being adapted to fit between the front

wall and lower wall of the body when in closed position, a plane lying midway between and parallel to the planes of the faces of each rigid front being directly radial to the axis of the adjacent movable post section, whereby the entire posts will be exposed at the front of the body in all positions of the movable compartment sections with respect to said body.

1,344,258. PROCESS FOR MAKING PETROL OR GASOLENE. CHARLES R. BURKE, Tulsa, Okla. Filed Dec. 8, 1910, Serial No. 596,382. Renewed May 18, 1920. Serial No. 382,335. 3 Claims. (Cl. 196—25.)



1. The process of making gasolene from heavier hydrocarbon oil which consists in distilling such heavier hydrocarbon oil under pressure, then mixing natural gas with the vapor resulting from said distillation, then passing the combined vapors through a compressor and then condensing the same.

2. The process of making gasolene from heavier hydrocarbon oil which consists in distilling such heavier hydrocarbon oil, condensing the resultant vapors and redistilling the same until a vapor of the desired lightness is obtained, mixing natural gas with the said vapor, then passing the resultant vapor through a compressor and then condensing the same.

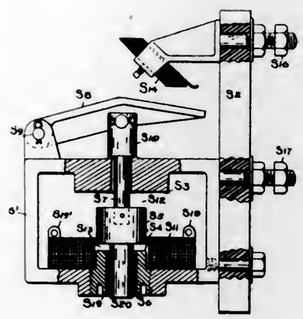
3. The process of making gasolene from heavier hydrocarbon oil which consists in distilling such heavier hydro-carbon oil, then mixing natural gas with the vapor resulting from said distillation, then passing the combined vapors through a compressor, as heretofore described, and then condensing the combined condensible vapors.

1,344,259. ADJUSTABLE SWITCH-POINT RAIL-SECTION. PHILIP CAMELI, Wilmington, Del. Filed Nov. 22, 1919. Serial No. 339,797. 6 Claims. (Cl. 246—449.)



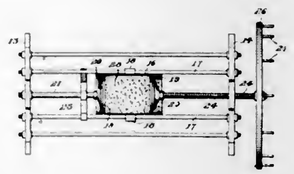
6. In combination, a railway rail, a switch point rail section associated therewith, a tie bar carried by the switch point rail section, a plate carried by the tie bar and arranged between the tie bar and railway rail, the plate and tie bar having coöperating parts to guide the movements thereof, and thrust screws extending through the tie bars beneath the rail for engagement with said plate to cause the plate to engage the base of the rail with the subsequent lowering of the tie bar and switch point rail section onto the tie.

1,344,260. METHOD AND MEANS FOR CONTROLLING ELECTRIC CIRCUITS. HARRY R. CANFIELD, Cleveland, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Continuation of applications Serial No. 583,000, filed Sept. 21, 1910, and Serial No. 604,331, filed Jan. 24, 1911. This application filed Mar. 6, 1920. Serial No. 363,868. 61 Claims. (Cl. 172—288.)



45. A switch for electric circuits comprising stationary and movable contact members, an actuating coil and means rendered effective for closing the switch only when the actuating coil is energized within predetermined limits.

1,344,261. OIL-MACHINE. ANDREW CHERMAK, Prince George, Va. Filed Dec. 27, 1919. Serial No. 347,707. 1 Claim. (Cl. 100—44.)

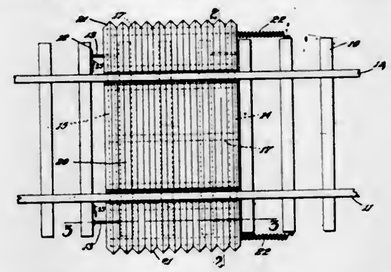


An oil press comprising A-shaped uprights, positioning rods connected between said uprights, two of said rods being in the same horizontal plane, a perforated cylinder freely mounted between said last named rods, disks adapted for positioning within the opposite ends of the cylinder engaging the contents of the cylinder, a head fixedly carried by one upright adapted for engaging one of said disks, a screw threaded through the other upright in axial alinement with the cylinder, a head swiveled upon the inner end of the screw adapted for adjustable engagement with the other disk and an operating wheel upon the outer end of the screw adapted for rotation during the pressing operation.

1,344,262. CATTLE-GUARD. HOWARD G. CONNELL and ALBERT J. SWINDALL, Dryad, Wash. Filed Mar. 3, 1919. Serial No. 280,363. 6 Claims. (Cl. 256—14.)

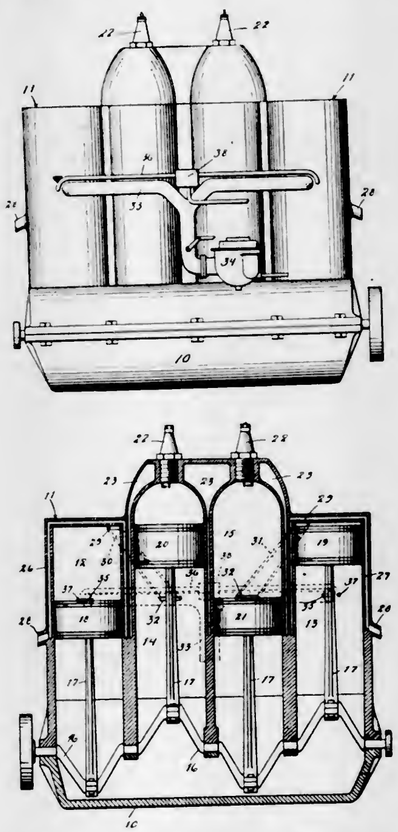
1. A railway cattle guard comprising tracks supported

by and between certain ties parallel with the rails, a frame structure having wheels movably mounted on said tracks,



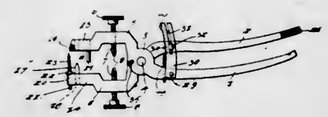
and blades carried by the structure between and outside the rails.

1,344,263. INTERNAL-COMBUSTION ENGINE. EMORY CROUSE, Wichita, Kans. Filed Nov. 20, 1919. Serial No. 339,307. 2 Claims. (Cl. 123—59.)



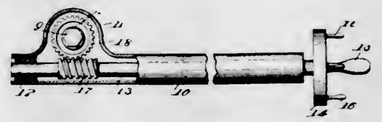
1. In an internal combustion engine, a pair of working cylinders, a pair of compression cylinders communicating therewith through by-passes, the compression cylinders having hollow walls defining annular chambers, means for supplying fuel to the compression cylinders, said working cylinders having exhaust ports communicating with an exhaust manifold, said annular chambers having ports communicating with the exhaust manifold and other ports leading to the atmosphere, said exhaust manifold having an outlet to the atmosphere, and a butterfly valve within said outlet whereby all or part of the exhaust gases may be deflected into said chambers.

1,344,264. COMPOUND TOOL. WILLIE H. CRUMMEY, Baxley, Ga., assignor of one-half to Henry C. Crummey, Baxley, Ga. Filed Jan. 9, 1917. Serial No. 141,384. 1 Claim. (Cl. 33—203.)



A device of the class described comprising a pair of pivotally connected handles, heads formed on the forward ends of the handles, jaw members formed integrally with the heads, adjustable supports carried by the jaws and arranged in direct alinement with each other, bearings formed on the adjacent ends of the supports and arranged to rotatably receive the terminals of the balance staff of a watch, a slotted plate mounted on one of the jaws, a set screw carried by the jaw and extending through the slot of the said slotted plate and arranged to engage the outer surface of the plate to hold the same in adjusted position, a pointer pivotally secured to the lower end of the plate and arranged to swing at right angles thereto, the outer end of the pointer being turned downwardly for engaging the balance wheel, said downturned end being pivotally connected to and arranged to swing at right angles to the plate, as and for the purpose specified.

1,344,265. WRENCH. LOUIS DOONAR, Bend, Oreg. Filed June 18, 1919. Serial No. 305,062. 1 Claim. (Cl. 81—57.)

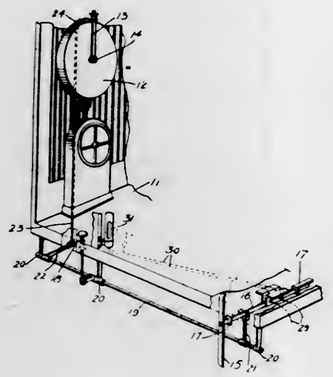


A wrench of the character described comprising a tubular body provided adjacent one end with an enlarged portion, a shaft journaled longitudinally within said body, a disk on one end of said shaft, a handle extending eccentrically from said disk, a plurality of pins extending from said disk in spaced relation to one another and to said handle, said pins coöperating with said handle for engagement by a lever for effecting rotary movement of the shaft, a worm on said shaft within the enlarged portion of the casing, a shaft journaled through the casing at right angles to said first named shaft, and a worm wheel on said last named shaft meshing with said worm, said last named shaft having a nut engaging socket.

1,344,266. ELEVATOR SAFETY SYSTEM. WILLIAM T. DUNFORD, New York, N. Y., assignor to Shurloc Elevator Safety Co., Inc., a Corporation of New York. Filed Aug. 10, 1914. Serial No. 856,123. 44 Claims. (Cl. 187—49.)

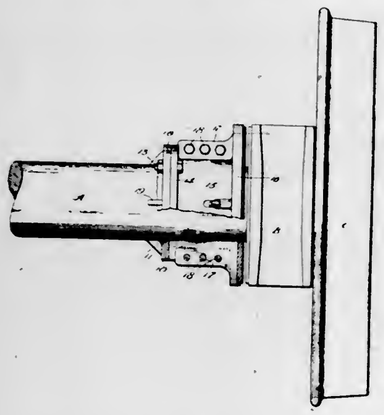
1. In an elevator safety system, the combination with a car, a controller lever thereon, and a landing door, of means at the landing for locking the landing door, a pedal and a thereby operable train of mechanism on the car mounted separately and independently of the controller lever, said train of mechanism including portions for unlocking the door-locking means and for locking the controller lever in neutral position, means controlled by the

landing door for holding said train of mechanism in actuated condition only when the car is at the landing, and



means whereby said mechanism automatically returns to normal condition when freed by the closing of the door from the restraint of said holding means.

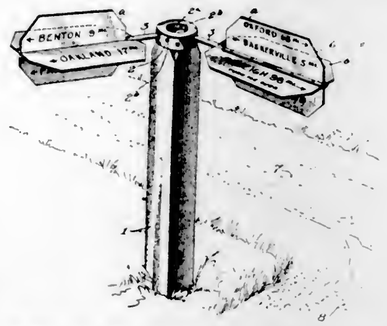
1,344,267. LATERAL-TAKE-UP DEVICE FOR LOCOMOTIVE-AXLES. HENRY BARNHARD FURSTONBURG, Shreveport, La. Filed Jan. 30, 1918. Serial No. 214,461. 2 Claims. (Cl. 64—25.)



1. A lateral take up device for locomotive axles comprising an adjustable section and a stationary abutment section, said abutment section being in the form of a collar provided with a tapered opening through which the axle extends, a fusing metal in the space within said collar formed by said tapering opening around the shaft to rigidly connect the collar with the shaft, and means for connecting the adjacent portions of the collar and said adjustable section.

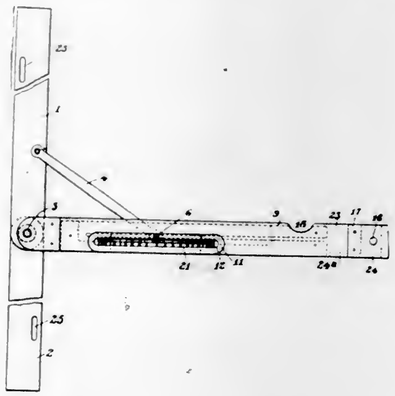
1,344,268. ROAD-GUIDE. SAMUEL L. GAYLE, Baskerville, Va. Filed Oct. 15, 1919. Serial No. 330,872. 2 Claims. (Cl. 40—145.)

1. In a road guide, a post, a cap on said post and having a plurality of radial openings at various angular positions about its circumference, and a direction indicating member comprising a spindle, adapted to fit rotatably within any of said openings, and distance indicating



signs carried by said spindle and arranged in various positions about the axis of the spindle and adapted to be brought successively into view upon rotation of the spindle.

1,344,269. COMBINATION PROTRACTOR, BEVEL, AND LEVEL. FRANK J. GOODIE, Dover, N. H. Filed June 9, 1919. Serial No. 302,698. 2 Claims. (Cl. 33—93.)

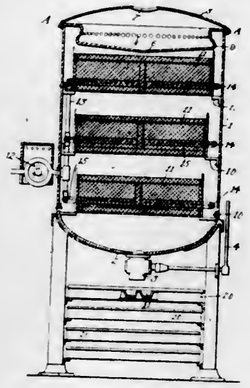


1. A combination instrument comprising a stock slotted lengthwise, and a pair of arms pivoted at one end to the stock and foldable into the slot, said arms being adjustable to various angles with respect to the stock and to each other, one of the arms being capable of swinging to the side of the stock opposite to the other arm and a detent pivoted to the stock and engageable with the last mentioned arm when swung to the opposite side of the stock.

1,344,270. APPARATUS FOR THE RECLAIMING OF USED PRINTERS' ROLLER COMPOSITION. THOMAS HAMILTON GROZIER, Longueville, near Sydney, New South Wales, Australia. Original application filed June 13, 1918, Serial No. 239,822, now Patent No. 1,321,789. Divided and this application filed Nov. 10, 1919. Serial No. 337,044. 3 Claims. (Cl. 18—5.)

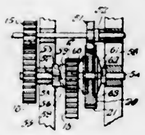
1. Apparatus for the purpose specified, comprising a closed vessel or chamber provided with a perforated receptacle or cage for the reception of used printers' roller composition or analogous substance, heated with superheated steam of low pressure, admitted thereto in a series of streams or jets, with the object of liquefying the recoverable portion thereof and the retention within the said cage

or receptacle of the solid or unliquefied portion for future removal, means for draining the chamber and apparatus comprising a cover or lid and moisture catchment adapted



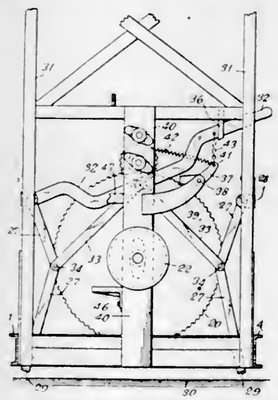
to intercept and vaporize the water of condensation, and such cover or lid provided with an exit port to permit of the escape of such vapors to the atmosphere, substantially as described.

1,344,271. PORTABLE ELEVATOR. ETHAN N. HESCOCK, Westfield, N. J., and ERNEST F. SMITH, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company, a Corporation of New Jersey. Filed Sept. 20, 1918. Serial No. 254,895. 7 Claims. (Cl. 187—11.)



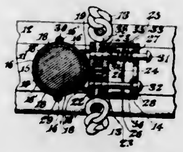
5. In portable elevators the combination of a movable elevator, means to support said elevator on the floor, hoist mechanism, and additional supporting means coöperating to lock and release the hoist mechanism.

1,344,272. PORTABLE ELEVATOR. ETHAN N. HESCOCK, Westfield, N. J., and ERNEST F. SMITH, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company, a Corporation of New Jersey. Filed June 24, 1919. Serial No. 306,328. 14 Claims. (Cl. 187—11.)



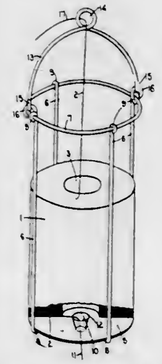
1. In a portable elevator, the combination of a movable elevator, wheels to support said elevator on the floor, hoist mechanism, toggle levers having one of their ends adapted to removably engage the floor to stabilize said elevator, and means to operate the toggle levers.

1,344,273. ANTISKID ATTACHMENT FOR WHEELS. JOHN H. HOGSTON, Minneapolis, Minn. Filed Aug. 2, 1918. Serial No. 247,942. 12 Claims. (Cl. 152—14.)



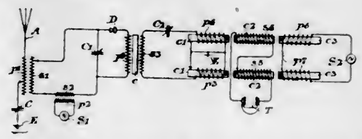
1. An antiskid attachment for wheels, comprising a body member, means for connecting said member to a spoke of the wheel, a pair of bolts carried by the body member, one of said bolts being spring-actuated and the other being rigidly mounted, and a chain permanently connected to the rigid bolt and detachably connected to the spring-actuated bolt, said chain passing transversely around the wheel.

1,344,274. TWINE-HOLDER. CHARLES W. HUBBARD, Weston, Mass. Filed Apr. 11, 1918. Serial No. 227,985. 2 Claims. (Cl. 242—146.)



1. A twine holder constructed to receive a cylindrical yarn package which can be unwound from either end, said twine holder comprising a circular bottom, sides extending at right angles to the bottom, and a permanently open top through which the cylindrical yarn package may be placed in the holder, the bottom having its central portion depressed below the edge thereof and being formed with a twine-delivery opening in said depressed portion whereby the cylindrical yarn package will be supported at its edges on the peripheral portion of the bottom, the portion of the bottom having the delivery eye therein being separated from the yarn package by the depression in the bottom.

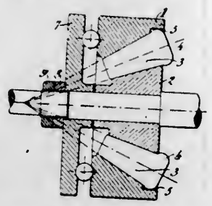
1,344,275. METHOD OF AND APPARATUS FOR ELECTRICAL COMMUNICATION. DAVID G. MCCAA, Elizabeth, N. J. Filed Dec. 19, 1918. Serial No. 267,445. 44 Claims. (Cl. 250—20.)



1. The method of operating with electrical energy, which consists in producing currents of different frequencies, producing by said currents magneto-motive-forces of differ-

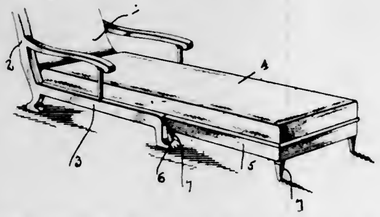
ent frequencies interacting through a coupling whose magnetic resultant is small or substantially *nil* when current of either frequency is absent to produce an undulatory magnetic flux of frequency dependent upon the difference between the frequencies of said currents.

1,344,276. ROLLER-BEARING. ERLAND NORDLUND, Stockholm, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 18, 1919. Serial No. 331,732. 8 Claims. (Cl. 64—39.)



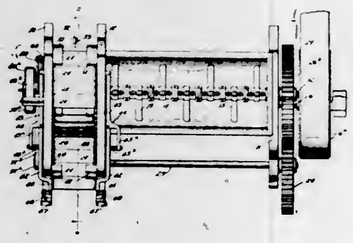
1. A roller bearing, comprising an inner bearing ring, an outer bearing ring having conical and cylindrical races, and conical rollers having guiding heads of greater diameter than the conical surface of the rollers, said guiding heads being in contact with the cylindrical race of the outer bearing ring.

1,344,277. ARTICLE OF FURNITURE. JOHN H. PHILLIPS, Yonkers, N. Y. Filed Feb. 14, 1919. Serial No. 276,900. 2 Claims. (Cl. 155—48.)



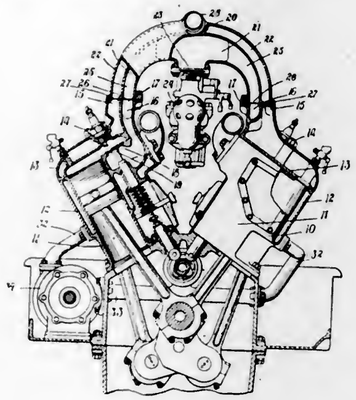
1. In combination a chair, a part capable of separate use as a table and having legs of such length that the top of said part is of the same height as the seat of said chair, and additional leg sections adapted to be affixed to the legs of said part to fit it for use as a table, the front feet of said chair having forwardly projecting members with vertical holes therethrough for receiving two of the legs of said part so that it may be secured to said chair to form a couch.

1,344,278. AUTOMATIC BRICKMAKING-MACHINE. DAVID J. STRICKLAND, Cleveland, Ohio, assignor to The Strickland Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1915. Serial No. 32,993. 6 Claims. (Cl. 25—48.)



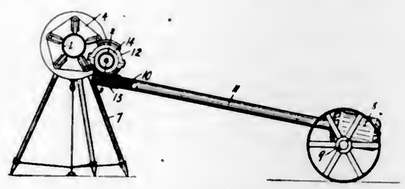
1. In a device of the kind described, the combination with a pug mill, die, plunger and platen, of a table upon one side of said die and a raceway upon the opposite side, a rest at the end of the raceway, a mold adapted to rest upon the table, and means for feeding the same between the die and platen and along the raceway to the rest, and combined knocking and lifting arms adapted to engage the mold upon the rest as set forth.

1,344,279. MOTOR-VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 16, 1916. Serial No. 120,501. 11 Claims. (Cl. 123—55.)



1. In a motor vehicle, in combination, a motor comprising water jacketed cylinders in blocks side by side, a water jacketed intake pipe connected to the cylinder blocks, a radiator at the end of the motor, and a pipe leading from the jacket of the intake pipe to the radiator.

1,344,280. POWER MEANS FOR WORK THREADING OR CUTTING UNITS. WILLIAM W. VOSPER, Toledo, Ohio. Filed Oct. 26, 1918. Serial No. 259,803. 9 Claims. (Cl. 74—34.)

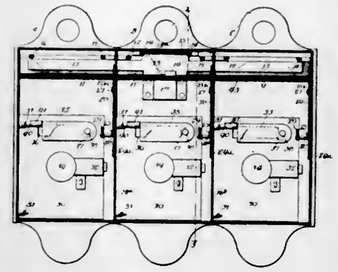


1. The combination with a rotatable head having a drive shaft at one side of its axis geared to cause a rotation of the head and an orbital movement of the shaft when the shaft is rotated, of a motor, and means connecting said motor and shaft and operable to rotate the shaft, said motor and means being mounted for reciprocable movements to move with the shaft in its orbital movements.

1,344,281. MAIL-BOX. WILLIAM FULTON WALKER, Chicago, Ill. Filed Mar. 20, 1916. Serial No. 85,294. 3 Claims. (Cl. 232—19.)

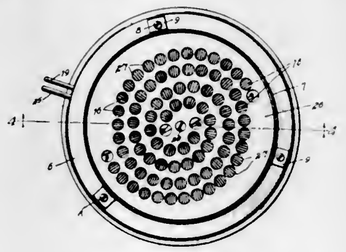
1. The combination with a mail box having an opening in the front wall thereof to receive mail, of a spring-pressed movable closure for said opening, said closure being adapted to be moved when mail is inserted through said opening, a pendant oscillatory indicator within said box under the control of said closure, said indicator being in such relation to said closure as to be projected

outward through a suitable opening in the front wall of the box against the action of gravitation when mail is inserted through said opening, said box having a movable door in the front wall of the box for gaining access to



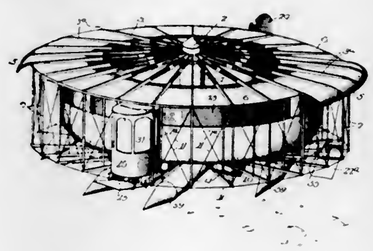
mail in said box, means for locking the indicator in its projected position, and means under the control of said door for releasing said indicator when the door is opened whereby the indicator may move by gravitation into non-indicating position.

1,344,282. ELECTRIC HEATING ELEMENT. CLIFFORD R. WASSELL, Chicago, Ill., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill., a Corporation of New York. Filed May 5, 1916. Serial No. 95,544. 8 Claims. (Cl. 219—37.)



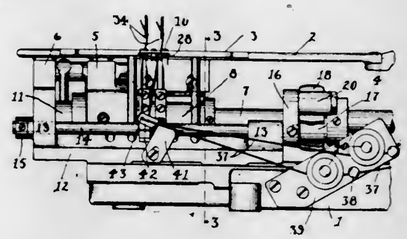
7. In an electric heating device, a base of refractory insulating material, a groove in said member having sunken flat topped shoulders, a flat heating element in the groove supported on said shoulders and held laterally by the walls of the groove, a cover plate secured to said member, said cover plate having a series of holes therethrough following said heating element.

1,344,283. FLYING-MACHINE. JOHN W. WEBB, Chicago, Ill. Filed Oct. 22, 1918. Serial No. 259,193. 11 Claims. (Cl. 244—18.)



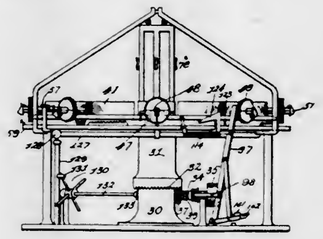
1. A flying machine formed with a bottom floor and a partition having a vertical side wall inclosing a central compartment open at the top, said side wall being continuous at its top with an outwardly projecting horizontal wall, a deflecting wall arranged outside of and connected to said side wall adjacent its bottom, and air blast apparatus within said compartment having the walls of its discharge chamber connected to said side wall and said chamber communicating with the space within said deflecting wall.

1,344,284. SEWING MECHANISM. ALBERT H. WEIS, Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation, a Corporation of Delaware. Filed Sept. 25, 1918. Serial No. 255,666. 34 Claims. (Cl. 112—197.)



1. In a sewing machine, the combination of a vertically movable needle having a relatively long notched portion at one side, a thread carrying hook-shaped looper operating under the work and movable transversely to the needle and having a relatively long recess in its side wall, across the recess of which the looper thread passes and in which recess the needle passes, the looper passing in the notch of the needle, the notch of the needle having greater length than the diameter of the coöperating part of the looper and the recess of the looper having greater diameter than the coöperating part of the needle.

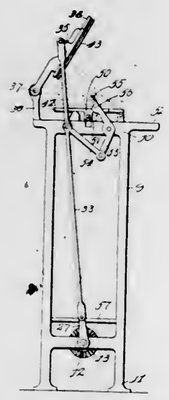
1,344,285. ROTARY AUTOMATIC CORNUCOPIA-BAKING MACHINE. MICHAEL J. WOLFF, St. Louis, Mo. Filed May 26, 1919. Serial No. 299,855. 14 Claims. (Cl. 107—58.)



14. A machine of the character described comprising a stationary frame, a rotating table located within the frame, a center supporting casing supporting the rotating table, a driving mechanism registering with the casing for imparting motion thereto, a plurality of sectional pivotally mounted baking molds carried by the table, a mold shaft supporting the sections of the mold, a mold supporting frame mounted on the table in which the mold is located, a stripping plate carried by each section of the mold for removing the baked cake from the surface of the mold, a means carried by the mold shaft for operating the stripping plate carried by the lower section of the mold, a means carried by the upper section of the mold for moving the stripping plate carried by said section, a split gear mounted on the outer free end of the mold supporting shaft, a dog mechanism carried by the table and in close proximity with the split gear, a means carried by

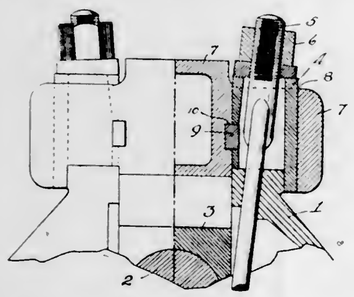
the stationary frame for placing the dogs in locked position against the gear at the proper period, a means carried by the frame for releasing the dog mechanism at a proper period, a latch carried by the shaft, a means for releasing the same at a proper period, racks located at intervals on the stationary table which impart motion to the split gear when brought in contact therewith, in combination with a plurality of burners carried by the stationary frame and beneath the baking molds and a means for regulating the flame of each burner during the traveling of the molds over said burners, substantially as specified.

1,344,286. COMBINED TRIMMING AND NESTING MACHINE FOR ICE-CREAM CORNUCOPIAS. MICHAEL J. WOLFF, St. Louis, Mo. Filed Sept. 2, 1919. Serial No. 321,062. 5 Claims. (Cl. 107—20.)



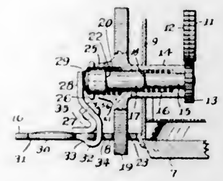
2. A machine of the character described comprising a frame, a perforated trimming table hingedly mounted on the frame and arranged to permit the insertion of a series of baked cornucopias, a hinged plate provided with a corresponding number of cutters arranged to be brought in contact with the trimming table for severing the cones from the web, a spring actuated pressure plate carried by the cutters for contacting with the web before the same is severed by the cutters, an actuating mechanism for raising and lowering the cutter plate, an actuating lever for tilting the trimmer plate and a clutch mechanism for placing the machine in and out of operation at a given period, substantially as specified.

1,344,287. TOP CAP FOR SUGAR-MILL HOUSINGS. JESSE I. BOYER, Reading, Pa. Filed Sept. 23, 1919. Serial No. 325,790. 3 Claims. (Cl. 100—47.)



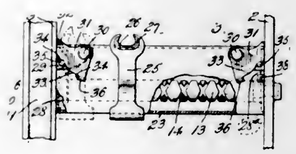
2. In a top cap for sugar mill housings, a cap member formed with two vertical openings and two horizontal key ways across the path of said vertical openings, a pair of king bolts for engagement with the housing, supports for the king bolts, said supports fitting snugly in said vertical openings in the cap, horizontal key ways in said supports adapted to register with the key ways in the cap, and keys for securing the cap to the supports.

1,344,288. REGISTER-RESET. CLARENCE CARSON, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company, a Corporation of New York. Original application filed June 16, 1915, Serial No. 34,344. Divided and this application filed Aug. 9, 1919. Serial No. 316,302. 6 Claims. (Cl. 74—7.)



1. In a device of the class described, the combination of a mechanism including a pair of gears, a third gear shiftable longitudinally of its axis of rotation and adapted in one position to mesh with both of said pair of gears to constitute a gear transmission therewith and in another position to mesh with only one of said gears, means engaging said third gear to maintain the same normally in one of said positions, a manually actuated wheel for rotating said third gear and a clutch connection between said wheel and third gear.

1,344,289. FISHING-REEL. FRANCIS M. CASE, Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 15, 1916. Serial No. 115,058. 15 Claims. (Cl. 242—84.4.)



1. In a fishing reel, a frame, a spool mounted therein, means for rotating said spool to wind the line thereon, a line guide having a line receiving recess, means for traversing said guide back and forth to lay the line on the spool, and movable means operating at each end of the path of travel of said guide for raising the line into said recess.

1,344,290. WORK-SUPPORT. LOUIS A. CASGRAIN, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 9, 1916. Serial No. 77,245. 23 Claims. (Cl. 1—41.)

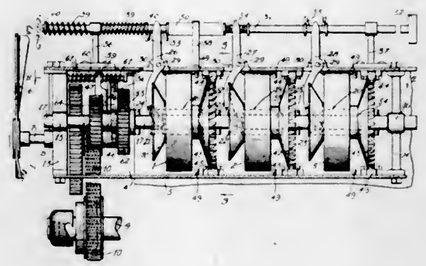
1. In a machine of the class described, a horn spindle, a horn mounted thereon for lateral operative adjustment with respect to the path of feed of the work, and means constructed and arranged to be rendered operable automatically to lock the horn in different adjusted positions on the horn spindle.

12. In a machine of the class described, a work support, a carrier for said work support adapted to be periodically lowered to permit feeding of the work, said work support being movably mounted on said carrier, and means on the work support and carrier constructed and arranged to lock the work support to the carrier upon upward move-



ment of the carrier from work feeding position, said means comprising a locking member rigidly mounted on the carrier.

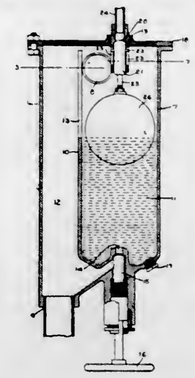
1,344,291. STARTER. THOMAS E. COLLINS, Chicago, Ill. Filed Mar. 7, 1919. Serial No. 281,259. 11 Claims. (Cl. 185—41.)



1. In combination, an engine shaft, a starter shaft, a sleeve loosely mounted on said starter shaft, a spring motor normally held under tension, adapted for rotating said sleeve, manually controlled means for coupling said sleeve to said starter shaft, said manually controlled means thereafter serving to shift said starter shaft into driving connection with the engine shaft, and means for releasing the spring motor to start the engine.

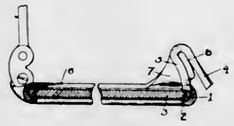
1,344,292. ATTACHMENT FOR STEAM-HEATING PLANTS. FRED B. DAWLEY, Detroit, Minn. Filed July 11, 1917. Serial No. 179,854. 2 Claims. (Cl. 137—113.)

1. In combination with the return pipe, of a steam heating system, a receptacle inserted in said pipe, a wall provided in said receptacle dividing it into independent chambers, one of said chambers communicating at the top with the return pipe section leading from the system and the other chamber communicating at the bottom with the return pipe section leading to the boiler, said wall having an overflow opening therein and a port and a valve in its lower walls for regulating the flow of the water of condensation from one of said chambers to the other, the chamber having a direct communication with the return pipe from the system having an air exit opening and valve therefor, and a float connected with said valve and movable



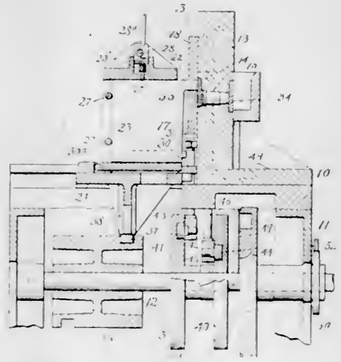
in said chamber, the water of condensation raising said float to close said valve when the air has been expelled from the system.

1,344,293. OPHTHALMIC MOUNTING. GEORGE H. DAY, Rochester, N. Y. Original application filed Dec. 1, 1919, Serial No. 341,676. Divided and this application filed Feb. 13, 1920. Serial No. 358,467. 5 Claims. (Cl. 88—55.)



5. An ophthalmic mounting comprising two lens frames each embodying a non-metallic rim having rearwardly extending nose bearing portions, and a metallic bridge connecting the lens frames and adjustable to permit the nose bearing portions to properly engage the nose.

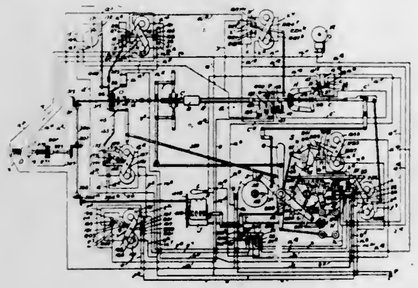
1,344,294. MACHINE FOR CASTING STRIPS TO STORAGE-BATTERY GRIDS. ERNEST DISINGER, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed June 19, 1916. Serial No. 104,363. 21 Claims. (Cl. 22—58.)



1. In a machine for casting straps to a group of storag battery grids, a mold composed of a stationary portic

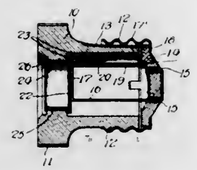
and a relatively movable portion, whereby the mold may be opened and closed, said mold having at one side means for receiving lugs on the grids, and having at the opposite side a pouring gate.

1,344,295. WEIGHING-MACHINE. FRANK A. EMERY, Quincy, and ARTHUR A. ADAMS, Brookline, Mass., assignors, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1914. Serial No. 822,560. 68 Claims. (Cl. 265—7.)



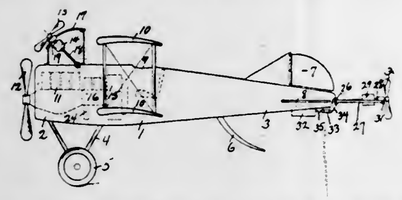
1. In a weighing machine, the combination of a beam; a poise; a screw shaft for said poise; a driving motor mounted off of the beam; transmission connections from said motor to said shaft including a clutch for disconnecting said motor from said shaft; and means for locking said shaft against rotation when disconnected from said motor.

1,344,296. PLUG-FUSE. ALFRED L. EUSTICE, Chicago, Ill. Filed Aug. 23, 1918. Serial No. 251,091. 4 Claims. (Cl. 200—130.)



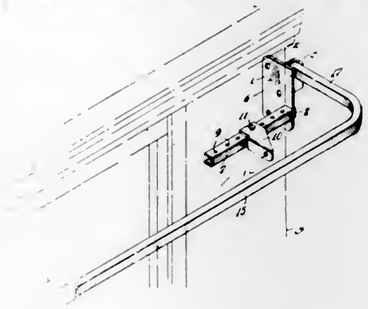
2. A plug fuse including, in combination, a hollow base, a fusible member mounted therein, a flanged window frame mounted wholly within one end of the base, and a transparent member mounted in said frame between its flanges whereby the transparent member is securely held and whereby the condition of the fusible element may be observed.

1,344,297. FLYING-MACHINE. MARTIN FEDDERS, Masury Station, Ohio. Filed Apr. 13, 1920. Serial No. 373,535. 1 Claim. (Cl. 244—25.)



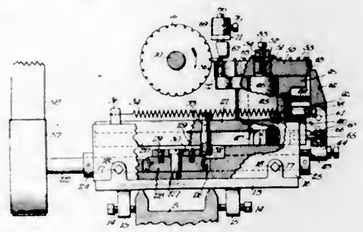
A device of the class described comprising an adjustably mounted propeller shaft and means for adjusting the same, including a hydraulic motor mounted on the shaft, a motor pressure pump connected with the motor and an electric generator for energizing the pump motor, substantially as described.

1,344,298. COMBINED CURTAIN AND SHADE SUPPORT. ELTA E. FIELDS, Marion, Ohio. Filed Apr. 3, 1920. Serial No. 371,002. 2 Claims. (Cl. 156—24.)



2. A shade support comprising a plate adapted to be secured to the side edge of a casing, and a horizontal bar projecting laterally from the front edge of said plate, said bar being formed of sheet metal U-shaped in cross section, the flange of the bar having holes therein, and an angular sheet metal shade bracket mounted upon said bar and provided with a pin adapted to fit in any one of said holes.

1,344,299. SPARK-WHEEL-TOOTHING MACHINE. AUGIE L. HANSEN, Evanston, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 10, 1918. Serial No. 249,218. 4 Claims. (Cl. 90—4.)

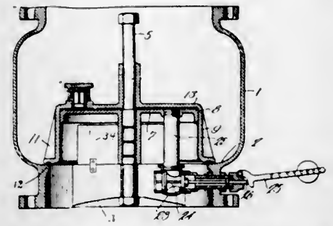


2. In a machine for serrating circular blanks, the combination of a shaft, a serrating tool mounted thereon, a block supported below said shaft, a carrier reciprocable on said block toward and away from said serrating tool, a vertical shaft journaled on said carrier, a work holder secured to the upper end of said shaft, pins on said work holder for supporting the blanks to be serrated, teeth on the lower end of said vertical shaft, and a pawl on said block for engaging with said teeth to rotate said vertical shaft during movement of said carrier away from said serrating tool, engagement of said pawl and teeth causing rotation of the work holder to bring another blank into the serrating field.

1,344,300. BACK-PRESSURE AND RELIEF VALVE. FRANK HENNEBÖHLE, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,759. 15 Claims. (Cl. 137—53.)

1. In a back-pressure or relief valve, a valve casing, a valve member movable within the casing and continuously

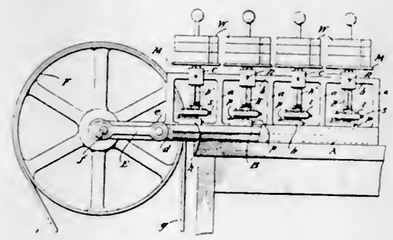
subject to the operative pressure and means secured to the casing for guiding the movable valve member and for normally screening only a part of the latter from the



operative pressure, and a check valve arranged for retarding the escape of fluid from the space between the screened part of the said valve member and the means which normally screen it

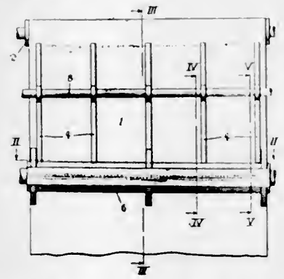
---

1,344,301. FRICTION AND FLEXING APPARATUS FOR TESTING MATERIALS. ALFRED E. JURY, Newark, N. J., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 18, 1919. Serial No. 305,153. 4 Claims. (Cl. 73—51.)



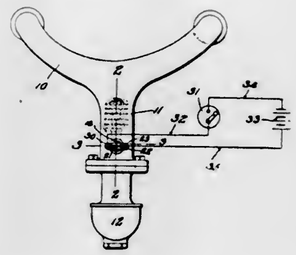
1. An apparatus of the character described, superposed engaging members for the material to be treated, each member being adapted to hold one end of a folded piece of flexible material, means for moving one of said members in parallelism with a face of the material to subject the latter to friction and flexing, the second member being adapted for movement in a direction transversely of the direction of movement of the first named member, and means for moving said members toward each other in the last mentioned direction.

1,344,302. CUTTING AND FOLDING MACHINE. HENRY E. LEONARD, Brooklyn, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 25, 1917. Serial No. 193,090. 8 Claims. (Cl. 164—68.)



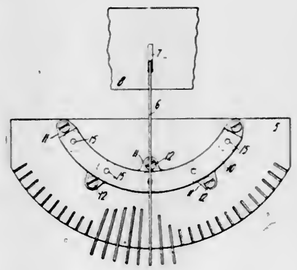
1. In a machine of the character described, transverse web cutters, means for feeding a web therethrough, and means in advance of the cutters, for oppositely deflecting portions of the web longitudinally of its travel as it passes through the cutters, to stiffen the web for insuring its positive and accurate feeding to register.

1,344,303. ELECTRIC VAPOR-HEATER FOR INTERNAL-COMBUSTION ENGINES. WILLIAM F. LITTLE, St. Louis, Mo., assignor to Electric Vapor Heater Company, Wilmington, Del. Filed Jan. 23, 1919. Serial No. 272,698. 2 Claims. (Cl. 219—38.)



1. The combination with a tubular connection for conducting combustible vapor to an internal combustion engine, of a supporting member axially disposed within said tubular member, a plurality of perforated disks mounted on said supporting member and spaced apart, the diameter of said disks being substantially equal to the internal diameter of the tubular member so that practically all of the vapor passing through said tubular member is caused to pass through the perforations in said disks, and means for electrically heating said supporting member and disks.

1,344,304. TYPEWRITING-MACHINE. WILLIAM A. LORENZ, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1919. Serial No. 291,878. 11 Claims. (Cl. 197—183.)

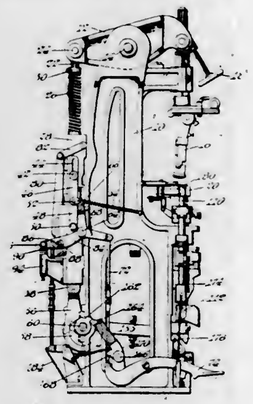


1. In a typewriting machine, the combination with type-bars and a segment or frame on which they are pivoted, of a stop for arresting the type-bars on their printing strokes, a set of soft rubber cushions seated in said segment and having holes, and studs provided upon said stop to fit in the holes in said cushions.

1,344,305. HEELING-MACHINE. THOMAS LUND, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 30, 1915. Serial No. 69,473. 28 Claims. (Cl. 1—32.)

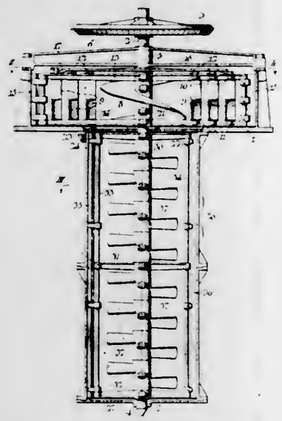
1. In a heeling machine, the combination of a frame, movable means for exerting measuring pressure upon the

work in the machine, independent means for locking said movable means positively to the frame of the machine to maintain the pressure, and means for thereafter applying additional pressure to the work.



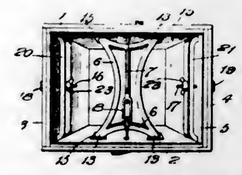
14. In a heeling machine, the combination of a work support, an opposed nail block, a measuring member carrying one of the opposed elements, automatic actuating means acting directly upon the measuring member to measure the work practically instantaneously, and final pressure mechanism operating to move the other of the opposed elements toward the first in timed relation to the action of the measuring member.

1,344,306. WET-MIXER. RICHARD V. MATTISON, Jr., Upper Dublin township, Montgomery county, Pa. Filed Feb. 12, 1919. Serial No. 276,681. 14 Claims. (Cl. 83—73.)



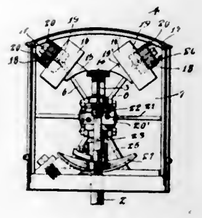
1. In a mixer, the combination of a mixing tank and a subjacent receiving tank with a valved aperture between them, said receiving tank having exit at its lower end; means in said mixing tank for agitating and thereby mixing the material therein, without compacting the same, even when said valve is closed and for forcing the mixed but uncompacted material downward to said valved aperture; and means in said receiving tank for pressing together and thereby compacting and for forcing downward through its exit said material received from said mixing tank, so that material mixed in said mixing tank and transferred to said receiving tank may be delivered continuously therefrom in a compacted state.

1,344,307. SOUND-AMPLIFIER. JOSEPH MERSMAN, Ottawa, Ohio. Filed May 12, 1919. Serial No. 296,517. 2 Claims. (Cl. 181—27.)



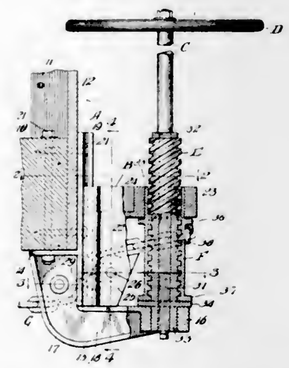
1. A sound amplifier for talking machines comprising top, bottom and side walls inclosing a tapering chamber, with non-resonant bridge tensioning means applied to said walls, each bridge having end supports engaging a wall to exert a thrust thereon at separated points thereof, and intermediate means to draw the same wall against the said end supports, all of said engaging parts being insulated as to sound vibration from the said walls.

1,344,308. ELECTRIC SIGNALING. MARK S. MORSE, Huntington Park, Calif., assignor to Railway Specialties Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 4, 1918. Serial No. 215,252. 7 Claims. (Cl. 246—54.)



2. In a hold clear signal a latch for holding said signal in its clear position; primary locking means for holding said latch in such a position as to hold said signal in its clear position; secondary locking means for holding said latch in such a position as to allow said signal to move from its clear position and electromagnetic means for actuating said primary and secondary locking means.
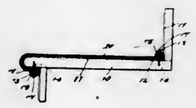
1,344,309. HAND-BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 16, 1918. Serial No. 258,454. 9 Claims. (Cl. 188—58.)



1. In a hand brake for cars, the combination with a vertical brake staff and hand wheel for turning the same,

of a chain winding drum, means for rotating said drum when the staff is rotated and while the chain is slack, and means adapting the drum to shift axially after the slack is taken up in the chain to thereby continue the tightening of the chain.

1,344,310. PROTECTIVE PAD FOR STAIRS. NORMAN C. PARKER, Chicago, Ill. Filed Sept. 23, 1919. Serial No. 325,717. 5 Claims. (Cl. 20—79.)



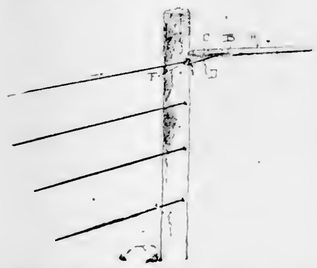
1. A protective pad of the character described for use on carpeted stairs and including a flexible and endless band of a suitable protective material placed over the carpet on each step of the stairs, retaining means fitting within the opposite closed ends of the endless flexible band for permitting movement of the band thereon whereby successive renewal portions may be brought uppermost, said means being non-continuous and allowing the upper and lower runs of the band to come together between the retaining means.

1,344,311. TURBINE-BLADE ATTACHMENT. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, and ARTHUR JOHN ALDIS, Wallsend, England; said Cook and said Aldis assignors to said Parsons. Filed Oct. 31, 1918. Serial No. 260,553. 7 Claims. (Cl. 253—77.)



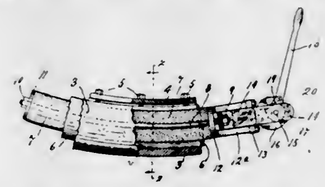
1. In turbine blade attachments comprising a circumferential containing groove, on the sides of which opposing circumferential projections are formed, packing sections divided into parts the dimensions of which will allow the parts to be separately inserted radially and twisted into position, the division extending from one side of the groove to the other.

1,344,312. WIRE-FENCE STRETCHER. ROBERT H. PATTERSON, Winchester, Ky. Filed June 26, 1919. Serial No. 306,910. 1 Claim. (Cl. 254—77.)



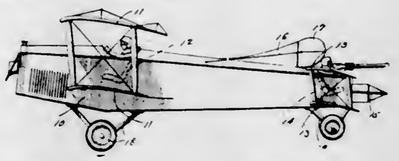
A wire fence stretching device comprising a handle having an elongated slot in one end, a metallic member mounted in said slot and having its inner end seated against the end of the slot, the walls of the latter and said member having registering apertures, and fastening means passing through the apertures, one longitudinal edge of said member and an end projecting respectively beyond the longitudinal edge and end of the handle and serrated, the line of serrations about the end and corner being curved, a claw bar pivoted centrally to said handle adjacent to the inner end of said member.

1,344,313. VULCANIZING-TOOL. OSCAR A. PETERSON and ORVILLE M. BRANCEL, Minneapolis, Minn. Filed Feb. 18, 1920. Serial No. 359,729. 4 Claims. (Cl. 18—45.)



1. In a tire vulcanizing tool, an expander comprising a core of elastic material that will expand radially under endwise compression, and means for compressing said end core endwise to thereby expand the same radially.

1,344,314. AEROPLANE. HARRY L. PIERCE, East Downingtown, Pa. Filed Oct. 30, 1919. Serial No. 334,455. 1 Claim. (Cl. 244—14.)



An aeroplane comprising a fuselage having front upper and lower sustaining planes and a pilot's seat therebetween, a vertical fin on the rear portion of the fuselage, a vertical rudder mounted on the fin, an elevating rudder mounted on the rear end of the fuselage, and upper and lower sustaining planes mounted on the fuselage between the vertical rudder and the elevating rudder, and a gunner's seat between the rear sustaining planes.

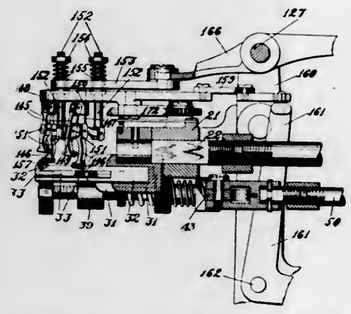
1,344,315. WIND-INDICATOR. CHARLES RUSSELL POST, New York, N. Y. Filed Oct. 11, 1919. Serial No. 330,043. 5 Claims. (Cl. 265—23.)



1. A wind indicator comprising a vane, a tube connected therewith, a pointer and a scale carried by and

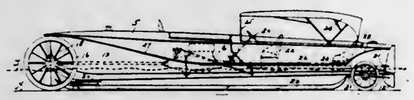
rotative with the tube, an indicator for the pointer to indicate the direction of the wind, a member supported to rotate with the vane and movable by the wind separately thereof, and a pointer operatively connected with said member and rotative by and with said tube to operate with the scale to indicate the speed of the wind.

1,344,316. GRIPPER MECHANISM. CHARLES F. PYM, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed June 24, 1911, Serial No. 635,183. Divided and this application filed Nov. 6, 1917. Serial No. 200,607. 25 Claims. (Cl. 12—11.1.)



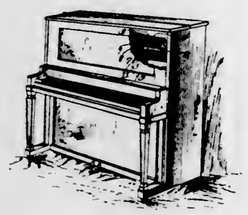
1. In a mechanism of the character described, a gripper comprising a fixed jaw, a coöperating jaw pivotally connected to said fixed jaw to swing toward and from the fixed jaw and guided on said fixed jaw for bodily straight line movement of its pivot coincidently with said swinging movement, and means for swinging and simultaneously moving said coöperating jaw in a straight line lengthwise of the fixed jaw.

1,344,317. COMBINED AUTOMOBILE AND MOTOR-BOAT. ERNEST SAIRANEN, Minneapolis, Minn. Filed July 15, 1918. Serial No. 244,971. 3 Claims. (Cl. 115—1.)



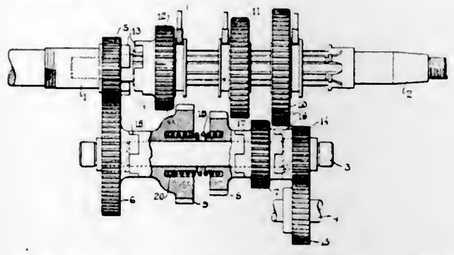
1. The combination with a boat hull, of wheels supporting said hull, certain of said wheels being provided with paddle blades and acting as traction wheels, and a runner and a supplemental wheel interchangeably secured to the keel of the boat hull.

1,344,318. SUPPORT FOR MOTH-REPELLENT HOLDERS. JOHN QUEEN SLYE and SAMUEL H. BISHOP, Washington, D. C. Filed Aug. 18, 1919. Serial No. 318,356. 10 Claims. (Cl. 167—3.)



1. The combination with a stationary support of the inner portion of a piano case, of a detachable support having a socket to engage said stationary support, said detachable support having spaced opposite arms, and a container for repellents having a closure and engaging between the arms, whereby one of the arms may retain the closure in place.

1,344,319. VARIABLE-SPEED-TRANSMISSION GEARING. WILLIAM C. STEVENS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 10, 1919. Serial No. 296,208. 4 Claims. (Cl. 74—58.)



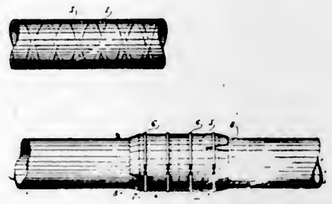
1 In variable speed transmission gearing, the combination with a gear mounted for axial movement and provided with a releasable driving connection, said connection being releasable by axial movement of said gear and said gear being biased against such movement, of an independently mounted gear shiftable axially into and out of mesh with said first mentioned gear.

1,344,320. GRAPPLE-HOOK FOR SKIDDING LOGS. STEVE THOMAS, Macclenny, Fla. Filed Aug. 20, 1919. Serial No. 318,825. 1 Claim. (Cl. 294—82.)



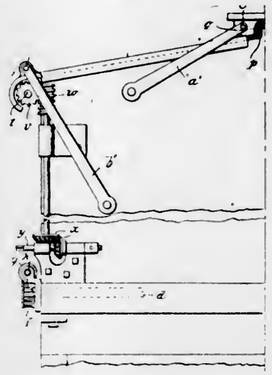
A log skidding device comprising two grapple hooks pivoted together, bars pivoted one to each shank portion of a hook and designed to engage a log gripped by the hooks, loops secured to the ends of the shank portions of the hooks, and a ring secured to said loops.

1,344,321. PIPE-LINE. FERNANDO URBINA, Mexico, Mexico. Filed Apr. 19, 1919. Serial No. 291,406. 3 Claims. (Cl. 137—75.)



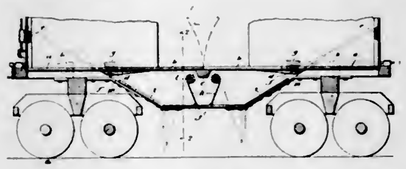
1. A pipe comprising superposed layers of paste board, a spirally wound metallic reinforcing element embodied in the pipe layers, and rings on the ends of the pipe and to which the ends of said reinforcing element are secured.

1,344,322. CONVERTIBLE RAILWAY-CAR. RICHARD E. WALKER, Roanoke, Va. Filed Aug. 23, 1919. Serial No. 319,393. 10 Claims. (105—377.)



1. In a railway car, a removable roof-structure embodying a pair of longitudinally-extending roof-sections having overlapping members at their inner edges and one of the sections carrying the running-board, and mechanism for swinging the roof-sections outwardly and downwardly to positions at the sides of the car, said mechanism consisting of a plurality of racks on each roof-section, a shaft journaled in each side of the car below the top edge of the side wall of the car and outside of said side wall, each of said shafts being provided with pinions engaging the said racks.

1,344,323. CONVERTIBLE RAILWAY-CAR. RICHARD E. WALKER, Roanoke, Va. Original application filed Aug. 23, 1919, Serial No. 319,393. Divided and this application filed Jan. 24, 1920. Serial No. 353,674. 1 Claim. (Cl. 105—243.)

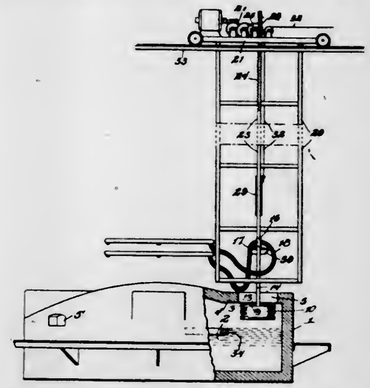


In a convertible car, a floor-structure embodying permanent floor-sections at the ends of the car, two invertible floor-sections completing the floor of the car, each of these sections being mounted and supported upon a rock-shaft connected to the section at a distance from its outer edge, means for inverting these sections to swing their inner edges upwardly and outwardly to meet the end-walls of the car to thus convert them into downwardly-inclined chute-sections, a centrally-arranged chute whose inclined walls extend upwardly and outwardly toward but terminate short of the respective rock-shafts, so that when said floor-sections are inverted their outer edges will meet the top edges of said inclined walls and thus convert said floor-sections into virtual extensions of said inclined walls.

1,344,324. LIGHT-WEIGHT ARTIFICIAL CEMENT STONE FOR BUILDING PURPOSES. ERNEST WALTER, Montclair, N. J. Filed Feb. 19, 1919. Serial No. 278,056. 11 Claims. (Cl. 106—24.)

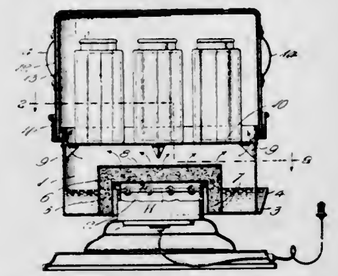
1. An element used for building purposes containing only hydraulic cement and fine mineral aggregates and having air holes disposed throughout the mass of the element.

1,344,325. PROCESS OF DRAWING GLASS CYLINDERS. WILLIAM WESTBURY, Okmulgee, Okla. Filed Oct. 15, 1917. Serial No. 196,674. 2 Claims. (Cl. 49—83.1.)



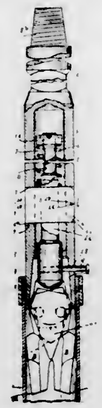
1. The process of drawing glass cylinders when using as instrumentalities a glass melting furnace having a drawing station provided with a drawing opening, and a vertically movable glass receiving pot tiltable on a horizontal axis from a normally horizontal drawing position to an inverted draining position, and vice versa, which consists in disposing the pot within the drawing opening so as to substantially fill said opening and with its upper surface projecting slightly above the level thereof, extracting a charge of glass from the furnace at a point laterally of and more or less remote from the drawing station, filling the chamber in the top of the pot with such charge of glass, drawing the cylinder from the charge of glass in the pot, moving the pot bodily in a vertical plane to a horizontal position out of alinement with the drawing opening and above the level of the glass in the furnace, tilting the pot on its axis to invert it and dispose the said pot chamber at the bottom of the pot and in the zone of heat of the drawing station so as to cause the aftermath to be melted thereby and to drain back into the furnace, tilting and reversing the pot to again dispose the pot chamber at the top of the pot, while said pot is above the level of the glass in the furnace, and then moving the pot bodily and vertically back into position for the succeeding draw.

1,344,326. STEAM-GENERATOR FOR CANNING AND COOKING DEVICES. JAMES W. WILLIAMS, Spokane, Wash. Filed Dec. 31, 1918. Serial No. 269,078. 2 Claims. (Cl. 126—20.)



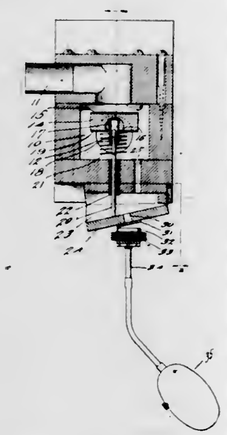
1. A device of the class described comprising a water container having a heating dome rising from the bottom thereof and extending above the water level of said container, a wick of absorbent material disposed over and around said dome, a perforated casing disposed over and around said wick, and a heater disposed in said dome.

1,344,327. UNDERREAMER. ELIHU C. WILSON and WILLIAM W. WILSON, Los Angeles, Calif., assignors to said William W. Wilson. Filed Dec. 20, 1916. Serial No. 138,055. 2 Claims. (Cl. 255—75.)



1. In an underreamer, a body and a pair of cutters, the body and cutters having interengaging means for causing expansion of the cutters, cutter supporting and actuating means including a spring actuated plunger having a lower centrally alined flat head with opposite parallel faces, the cutters having each a flat laterally offset shank, which shanks fit flatly one against one face and the other against the opposite parallel face of the flat head, and pivoted connections for the cutters to the head embodying two pivots, one for one cutter at one face of the head and the other for the other cutter at the opposite face of the head, said pivots being parallel to each other and at right angles to the head faces and spaced apart on opposite sides of a central longitudinal plane perpendicular to the head faces.

1,344,328. PNEUMATIC CONTROLLER. STANLEY BYRNE TURNER WORDEN, Syracuse, N. Y., assignor to F. R. Henshaw, trustee, Indianapolis, Ind. Filed June 7, 1917. Serial No. 173,334. 9 Claims. (Cl. 84—168.)



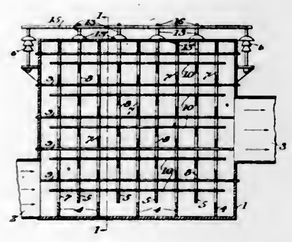
1. A pressure controller comprising a valve chamber having an inlet passage and an outlet passage, a valve arranged to yieldably coöperate with one of said passages, a pneumatic under the influence of the pressure determined by said valve, means controlled by said pneumatic for variably affecting the force of coöperation of the valve with the controlled passage, and means for controlling the position which the pneumatic will take under the influence of its connection with the valve-determined pressure, said means comprising a member movable to various positions in coaction with an inlet leakage opening to the interior of the pneumatic.

1,344,329. PENHOLDER. CHARLES E. BALDWIN, Houston, Tex. Filed Oct. 21, 1919. Serial No. 332,240. 9 Claims. (Cl. 120—101.)



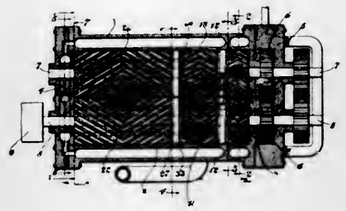
1. The combination with a pen holder having a longitudinally extending bore, of a pen retaining member constructed of a length of spring metal having one end portion anchored within said opening and its opposite end portion provided with a pen engaging member, and a locking arm pivoted to the forward end portion of said pen retaining member.

1,344,330. ORIFICE-PRECIPITATOR. LINN BRADLEY, East Orange, N. J., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,624. 6 Claims. (Cl. 183—7.)



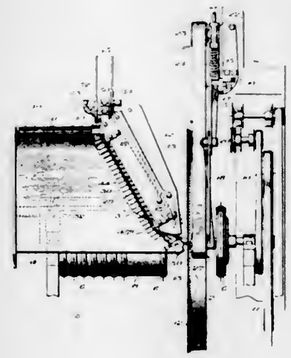
1. The combination with a treater chamber, of two plates spaced apart in parallelism, each plate having an orifice which is laterally offset relatively to the other and a rod connected to each plate and extending substantially centrally through the orifice in the other plate.

1,344,331. ENGINE. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey Rotary Engine Company, St. Louis, Mo., a Corporation of Missouri. Original application filed Feb. 14, 1919, Serial No. 276,995. Divided and this application filed Mar. 27, 1919. Serial No. 285,477. 20 Claims. (Cl. 123—12.)



1. An engine comprising a casing, a pair of intermeshing rotors within the casing, passages through the rotors, chambers in the outer edges of the teeth of the rotors, a means for supplying liquid to said chambers to form a water seal between the casing and teeth of the rotors.

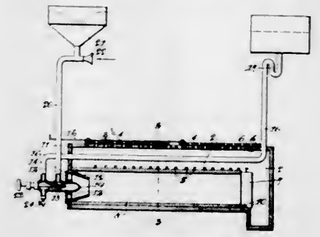
1,344,332. SCRAPING ATTACHMENT FOR BROOM-CORN-SIZING MACHINES. WILLIAM M. CHRISTOPHER, Amsterdam, N. Y., assignor to Pioneer Broom Company, Amsterdam, N. Y., a Corporation of New York. Filed June 16, 1919. Serial No. 304,423. 18 Claims. (Cl. 130—30.)



1. In a machine for scraping or stripping broom corn, the combination with an upright carrier wheel for conveying the stalks, of a forwardly and upwardly inclined rotary scraper or stripper which is adapted to remove the seeds from the corn while the carrier is conveying the stalks.

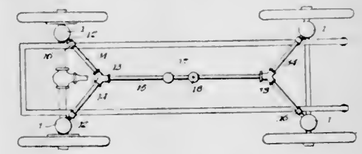
1,344,333. GAS-GENERATOR AND COMBUSTION-CHAMBER FOR PULVERIZED FUEL. THOMAS CLOUSTON, Vancouver, British Columbia, Canada. Filed Aug. 8, 1919. Serial No. 316,175. 4 Claims. (Cl. 110—28.)

1. A gas generator and combustion chamber, comprising in combination, an elongated combustion chamber of refractory material having closed ends and delivery apertures along the sides and top, an open ended mixing chamber of refractory material lengthwise disposed within the



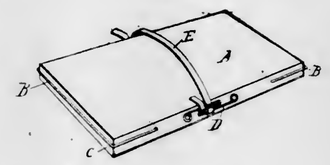
combustion chamber, and means for delivering carbonaceous fuel, steam and air axially within the mixing chamber.

1,344,334. EQUALIZER. NILLS CROONHOLM, Cornwall, N. Y. Filed June 30, 1919. Serial No. 307,512. 1 Claim. (Cl. 280—104.)



A shock absorber and equalizer for vehicles comprising cylinders suspended from the chassis adjacent each wheel, pistons arranged within the cylinders for reciprocatory movement, piston rods associating the pistons with the axles of the vehicle, said cylinders adjacent the opposite ends of the vehicle being connected in pairs by Y-fittings, and a longitudinal pipe connecting the said Y-fittings, said pipe and Y-fitting establishing communication between all of the cylinders, an automatic air inlet valve supported by said longitudinal pipe, and a self acting safety valve communicating with the said pipe.

1,344,335. BLOTTING-PAD OR BLOTTER. FREDERIC N. CROWELL, Terrace Park, Ohio. Filed Aug. 15, 1919. Serial No. 317,710. 1 Claim. (Cl. 120—25.)

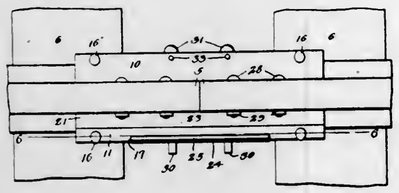


In a blotting pad, the combination with a plate, means for holding a pad thereto and an elastic strip to fit over the hand, of a clip at each side of the plate, said clip comprising a resilient wire having its terminals secured to the plate and having its intermediate portion made substantially S-shaped to form oppositely presented prongs arranged in overlapping planes and between which prongs the free end of the elastic strip is passed and adjustably held.

1,344,336. CONNECTING MEANS FOR RAILWAY-RAILS. JOHN C. DAVID, Springfield, Mo. Filed July 25, 1919. Serial No. 313,196. 1 Claim. (Cl. 238—197.)

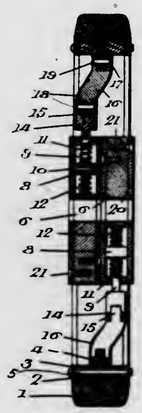
In a rail joint, a chair including a base on which rails rest, said base having spaced transverse pockets there-

through, upstanding flanges on the edges of the base, one of which having an elongated slot therethrough that communicates with the base and pockets and both of the upstanding flanges having inwardly inclined flanges on the edges thereof, one of the latter terminating in a straight plate, an angle plate having its lower edge formed with a central lip which is received through the mentioned slot in one of the upstanding flanges of the base, wedge keys passing through the pockets and contacting with the base of the rails and the flange of the angle plate for forcing



the base of the chair away from the rails and thereby drawing the flange of the chair which is engaged by the lip of the angle plate down upon said angle plate and upon the lip thereof, means passing through the chair and wedge keys for securing said keys in the pockets, means passing through the chair and angle plate and contacting with the edges of the base of the rail for securing the chair and rails on supporting ties and means passing through the angle plate, rail webs and straight plate of the chair for connecting these members.

1,344,337. CUSHION-WHEEL. PHILIP H. DORSEY, Algiers, La. Filed Nov. 14, 1919. Serial No. 338,020. 8 Claims. (Cl. 152—48.)

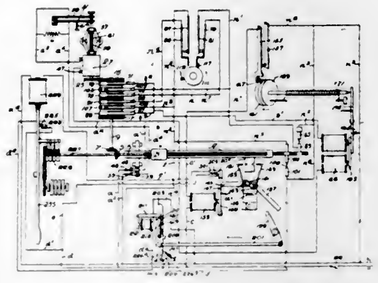


7. A resilient wheel comprising a tire, two similar hub elements each provided with a plurality of equi-distant radially directed pockets, means for connecting said elements in such position that the pockets in one alternate with the pockets in the other, posts radially slidably mounted in said pockets, alternately oppositely directed, radially extending and inwardly laterally offset spoke sections, and pivotal connections between said spoke sections and said posts and tire, respectively, said connections being parallel and in a plane perpendicular to the wheel face.

1,344,338. RUST-PREVENTING SOLUTION AND PROCESS OF PREPARING THE SAME. WILLIAM EISENHAUER, New York, N. Y. Filed June 14, 1919. Serial No. 304,302. 5 Claims. (Cl. 134—26.)

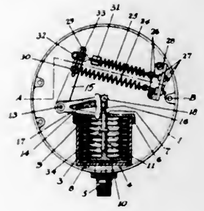
4. A process for preparing a rust-preventing solution consisting in heating a quantity of turpentine, adding gum thus to the turpentine and boiling until it is dissolved, adding vaseline and boiling until it is dissolved and while boiling adding varnish.

1,344,339. WEIGHING-MACHINE. THEODORE M. FOOTE, Allston, Mass., assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass., a Corporation of Massachusetts. Filed Feb. 21, 1914. Serial No. 820,332. 80 Claims. (Cl. 265—7.)



1. A weighing machine comprising in combination, a beam; a poise thereon; a motor; members driven in opposite directions by said motor; means through which said motor drives said members; electro-magnets rotative with said members; transmission means extending from said electro-magnets to said poise and means for rendering one or another of said magnets effective to transmit the feed from said motor to said poise.

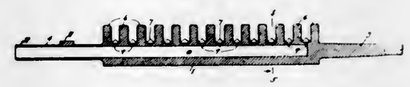
1,344,340. PRESSURE-GAGE. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Aug. 31, 1916. Serial No. 117,873. 28 Claims. (Cl. 73—110.)



27. A pressure gage comprising means to be subjected to the pressure to be gaged, a lever operatively connected thereto and provided with a slot at an angle to its pivot, a plurality of members adjustable in said slot, springs connected to said members and adapted to consecutively oppose movement of said lever by said first-named means, and indicating means operatively related to said first-named means.

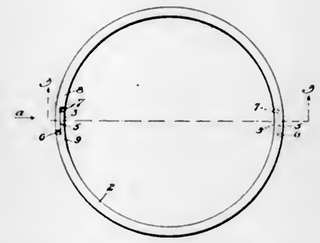
1,344,341. GAS-KINDLING GRATE. STANLEY GROTKOWSKI, Chicopee, Mass. Filed Mar. 12, 1919. Serial No. 282,201. 3 Claims. (Cl. 158—12.)

1. A gas-kindling grate bar consisting of a body triangular in cross-section and provided with end extensions, triangular lugs on the three sides of said body, the outermost angles of said lugs being in planes which are radial to the axis and intersect the sides of said body, and guards on one side of said body between said lugs on that side, said body having therein a longitudinal passage which ex-



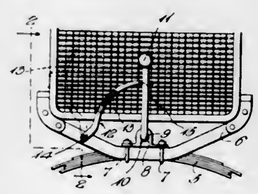
tends through one of said extensions and opens at the outer end thereof, and also having therein lateral passages which open at one end into said longitudinal passage and at the other end through the side of said body which carries said guards.

1,344,342. PISTON PACKING-RING. OSCAR W. HANSON, Salina, Kans. Filed Oct. 8, 1918. Serial No. 257,343. 2 Claims. (Cl. 74—109.)



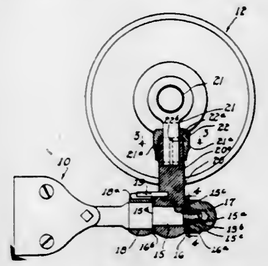
1. A piston packing ring comprising a split spring ring members having end portions provided with overlapping tongues, the meeting faces of said tongues slidably contacting on a rectilinear line obliquely inclined to radii of the ring passing through the extremities of the tongues, whereby said meeting surfaces of the tongues form coacting wedge surfaces to force the outer tongue radially outward on a spreading motion of the tongues in the expansion of the ring.

1,344,343. CRANK-HANDLE-RETAINING DEVICE. OTTO HARP, Wadsworth, Ohio. Filed July 12, 1919. Serial No. 310,325. 1 Claim. (Cl. 74—33.)



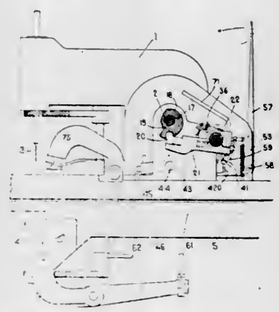
The combination with an automobile, of a device for retaining the starting handle of the automobile engine in a vertical position, said device comprising an elongated resilient arm pivotally connected to the chassis of the automobile at the rear of the starting handle and adapted to be swung transversely with respect to the axis of the starting handle to bring the free end of said arm into engagement with the outer end of said starting handle to retain the handle in a vertical position, said arm being bent intermediate its pivotal end and free end to bring the free end in firm engagement with the starting handle when the starting handle is in a vertical position.

1,344,344. UNIVERSAL JOINT FOR SPOT-LIGHTS. EARL H. HOWARD, Los Angeles, Calif., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 3, 1919. Serial No. 335,332. 2 Claims. (Cl. 248—20.)



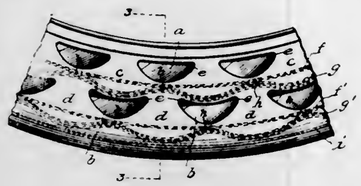
2. In a device of the character described, a supporting member having a shouldered shaft, a friction washer around the shaft against the shoulder, a universal member mounted on the shaft and bearing at one side against the washer, the shaft having a reduced end and another shoulder near the opposite side of the universal member, another friction washer around the reduced portion of the shaft and bearing against the last mentioned side of the universal member, screw threads on the reduced shaft portion and a nut thereon to press the friction washer against the universal member, the universal member having a cylindrical extension directly opposite the part which is mounted on the shaft and at right angles to the shaft, the extension having a cylindrical socket extending from its end a considerable distance into the extension, the walls of the socket being split longitudinally and the end of the socket being tapered, a lamp carrying standard, threads on the exterior of the socket walls, and a threaded nut adapted to screw onto said threads and having a tapered part at one end adapted to engage the tapered end of the socket to compress the socket walls around the standard.

1,344,345. DRIVING AND STOPPING MECHANISM. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed June 14, 1919. Serial No. 304,157. 1 Claim. (Cl. 74—46.)



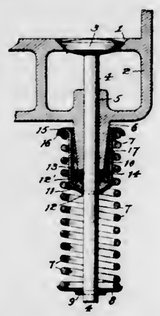
In a driving and stopping mechanism for a buttonhole sewing machine, the combination with a driving shaft having a driving pulley loosely mounted thereon, and a stop cam fast thereon, a controlling member extending parallel to the shaft and movable in the direction of its length to release the stop cam and clutch the driving pulley to the shaft, a lever connected to said controlling member, automatic means for actuating said lever, and a second manually-controlled lever by which the first-named lever can be actuated independently of the automatic means.

1,344,346. CUSHION-TIRE. FREDERICK AUGUSTUS KRUSEMARK, LUTHER G. FUNKHOUSER, and HARRY G. CARPENTER, Roanoke, Va., assignors to K. F. & C. Tire & Rubber Corporation, Roanoke, Va., a Corporation of Virginia. Filed Mar. 11, 1918. Serial No. 221,705. 1 Claim. (Cl. 152—1.)



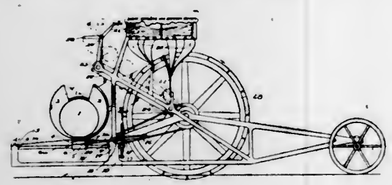
A cushion tire provided with a circumferential series of transverse passages and a band of fibrous material embedded in the tire between said passages and the tread surface thereof, said passages having their outer walls arched toward the tread surface and said bands being dipped inwardly toward said arched walls.

1,344,347. VALVE-STEM PACKING-CUP. HARRY ARTHUR LEE, Kansas City, Mo. Filed May 23, 1919. Serial No. 299,087. 3 Claims. (Cl. 286—36.)



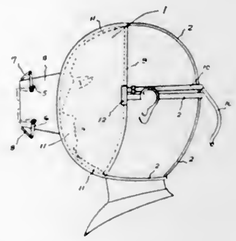
1. In a packing for valve stems for engines, a valve having a suitable stem and a guide therefor, a packing cup adapted to receive a packing and apertured for the passage of the stem, said cup at its upper end having an offset portion provided with a downwardly directed end forming a space between said end and the wall of the cup, and a resilient member for normally urging said packing into sealing relation with the guide disposed within the space formed by the offset collar of said cup, and a perforated conical member disposed within the cup upon said packing.

1,344,348. GRAIN-SHOCKING MACHINE. ALEXANDER MCDONALD, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 331,866. 7 Claims. (Cl. 56—402.)



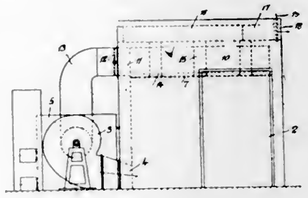
1. A shocker, comprising a side-opening cradle of substantially round cross-section, closed at one end and open at the other and having a side door mounted and adapted for peripheral movement to vary the degree of closure of the side opening, in combination with means adapted and arranged to tilt the cradle from a normal prostrate position to an upright open-end-down position, and means to simultaneously open said door.

1,344,349. OPEN-FACE GAS-MASK. GEORGE ARTHUR MICKELSON, Vancouver, British Columbia, Canada. Filed May 17, 1919, Serial No. 290,819. Renewed May 19, 1920. Serial No. 382,640. 3 Claims. (Cl. 128—141.)



1. A mask or helmet adapted to inclose the face or head respectively so as to preserve an air tight space therearound having an inlet opening for air under pressure and an air exit opening in front of the eyes, and a funnel secured to said mask or helmet in line with said exit opening whereby the air issuing therefrom is concentrated and directed forwardly as a stream to penetrate smoke or gases against which it is projected.

1,344,350. SMOKING AND DRYING APPARATUS FOR FISH OR THE LIKE. TORVALD GITLESEN NORLAND, Stavanger, Norway. Filed Jan. 26, 1920. Serial No. 354,115. 3 Claims. (Cl. 99—2.)



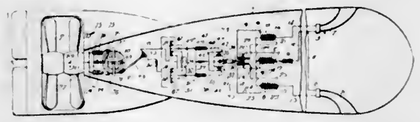
1. In an apparatus or plant for smoking and drying fish or the like a smoking and drying chamber, a heating chamber, and a smoking furnace, connected in parallel with said smoking and drying chamber, a fan or ventilator for introducing smoke and hot air from said heating chamber and furnace into the smoking and drying chamber, a number of small outlet openings for smoke and hot air evenly distributed over the roof of said smoking and drying chamber, the total cross sectional area of the outlet openings being so determined that a pressure slightly above the normal is maintained in the smoking and drying chamber during the process.

1,344,351. COOLING-RADIATOR. EMIL F. NORELIUS, Peoria, Ill., and WILLIAM TURNBULL, Stockton, Calif., assignors to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Dec. 13, 1916. Serial No. 136,678. 11 Claims. (Cl. 257—029.)

4. A radiator comprising upper and lower manifolds, having inlet and outlet connections respectively, a series of laterally spaced separate headers detachably carried on the manifolds and in communication therewith, a plurality of fore and aft spaced tubes extending between vertically alined headers, said headers each including separated compartments to put the tubes in series communication with each other.

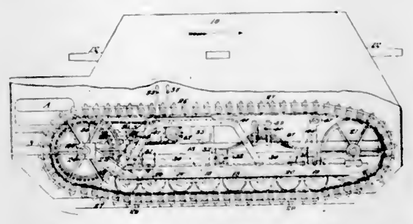


1,344,352. STEERING APPARATUS. EDWARD A. PARMELE and TRUE MCLEAN, Staten Island, N. Y. Filed Aug. 10, 1918. Serial No. 249,257. 11 Claims. (Cl. 114—21.)



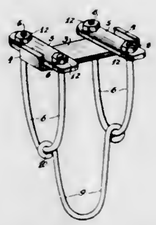
1. A craft having means for steering it and provided with sound responsive means, transformers having primary coils in circuit respectively with said sound responsive means, a translating device having coils respectively in circuit with the secondary coils of said transformers, a transformer having its primary winding in circuit common with the primary windings of the first named transformers and with said sound responsive means, said translating device having a movable coil in circuit with the secondary winding of the second named transformer, and electrically operating means interposed between said steering means and said translating device and operated by the movable member of the latter for controlling the operation of said steering means.

1,344,353. SELF-PROPELLED VEHICLE. HENRY T. PREBLE, Stockton, Calif. Filed Oct. 16, 1917. Serial No. 196,803. 19 Claims. (Cl. 180—9.1.)



1. A self-propelled vehicle comprising a main frame, and a truck mechanism at each side thereof, the latter including a rigid truck frame of about the same length as the main frame, a series of closely arranged rollers journaled upon the truck frame for most of its length, a sprocket driving wheel journaled upon the truck frame at the rear thereof and independent of the main frame, an idler wheel journaled on the truck frame at the front and an endless flexible self-laying track running over said driving and idler wheels and having its bottom run forming a track for the rollers.

1,344,354. DEVICE FOR CONNECTING OX-YOKES TO CART-POLES. RAFAEL RAMOS and AMBROSE DE CARDENAS, Aguada de Pasajeros, Cuba. Filed May 19, 1919. Serial No. 298,234. 1 Claim. (Cl. 54—77.)



A device for connecting the yoke to the cart-pole, comprising a pair of U-shaped clamps embracing the yoke laterally of the pole, a plate resting on the central portion of the yoke and having raised flanges on its ends, plates resting transversely on the first plate near the flanges thereof and projecting to the front and to the rear of the yoke, these second plates being provided at its projecting portions with holes through which pass the upper ends of the clamps, a U-shaped member beneath the pole connecting one clamp with the other one and being inserted in a notch in the pole, and nuts screwed on the threaded ends of said clamps and tightening against the projecting ends of the clamps.

1,344,355. AUTOMOBILE SIGNAL DEVICE. CHARLES ROTH, Brooklyn, N. Y. Filed Oct. 22, 1919. Serial No. 332,473. 5 Claims. (Cl. 40—132.)

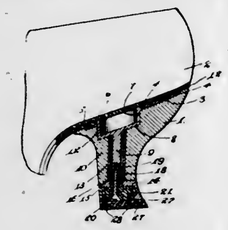


1. A signal device for vehicles comprising a casing having a bead pressed outwardly therefrom providing a recess entering the bead from the interior of the casing, a partition in the casing having an ear projecting therefrom and entering the recess provided by said bead, translucent signal carrying means in the casing having indicia or different characters thereon at opposite sides of the partition, and illuminating means in the casing at opposite sides of the partition.

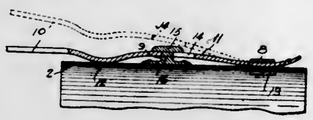
1,344,356. SHOE-HEEL. FRANK SAHR, Delaware, Ohio. Filed Sept. 2, 1919. Serial No. 320,993. 3 Claims. (Cl. 36—42.)

1. In a shoe, a heel structure comprising an upper member formed to be rigidly secured to the under side of the heel portion of a shoe, the forward edge of said member being formed to embody a groove designed for the snug reception of the rear edge of the shoe sole, an extension

projecting downwardly from said member, a heel body having an internal socket arranged to receive said extension, and a lower clamping member connected with said extension and operable to maintain said heel body in its applied position.



1,344,357. ARTIFICIAL HAND. GEORGE A. SHIRER, Pittsburgh, Pa. Filed Jan. 29, 1920. Serial No. 354,794. 2 Claims. (Cl. 3—12.)



1. In an attachment for crippies the combination of a clamping member for the forearm, a keeper in said clamping member, a stud on said clamping member, and an instrument having a bowed shank portion engaging said keeper and having a slot through which said stud projects to hold said instrument in position.

1,344,358. CURTAIN-ROLLER. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Ternstedt Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1919. Serial No. 322,241. 6 Claims. (Cl. 156—36.)



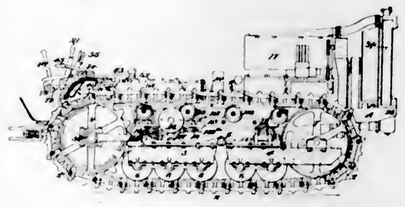
6. In a curtain roll, the combination of a rod provided with a recess, a barrel, a dog-carrier located near the longitudinal middle of the barrel, and a dog supported by the dog-carrier and adapted to engage the recess of the rod when the roll rotates in one direction slowly.

1,344,359. FUSE-PLUG. WALTER G. STOESER, Seattle, Wash., assignor of one-half to Adolph Wetstein, Portland, Oreg. Filed June 16, 1919. Serial No. 304,612. 4 Claims. (Cl. 200—130.)



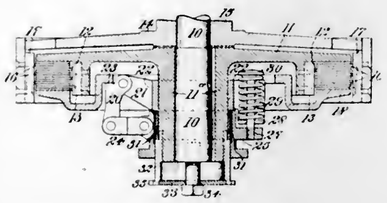
1. In a fuse plug, the combination of a body having threaded ends and a cavity in one end consisting of a transverse portion and two legs extending longitudinally of the body, a cap screwed onto one end to close said cavity, a pair of fuse contacts mounted in said cavity and in the longitudinal extensions of said cavity and a fuse holder fitting within said cavity and said contacts, a strip of fuse metal fitting around said holder and pressed into engagement with said fuse contacts within the cavity, a central conductor having a contact end at the end of the body opposite said cap and connecting to one of the fuse contacts, a sleeve fitting around the other threaded end of the body, and means connecting the sleeve to the second fuse contact.

1,344,360. TRACTION-ENGINE. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Feb. 10, 1916. Serial No. 77,382. 4 Claims. (Cl. 180—9.2.)



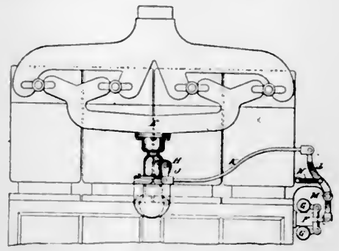
1. In a traction engine or similar vehicle having its entire weight supported upon a pair of self-laying tracks, the combination of a motor, driving means between the motor and tracks, steering means in the driving connections including a pair of friction clutches, one of each pair of said clutches being laterally shiftable and said clutches being normally in for the purpose of driving the the machine straight ahead, means for slipping the shiftable clutch members to steer the machine, a band brake operative in conjunction with each non-shiftable clutch member to supplement the steering operation, and unitary means for operating both clutches and brakes in a manner to disconnect each clutch mechanism separately and subsequently apply the corresponding brake.

1,344,361. MULTIPLE-DISK CLUTCH. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 1, 1917. Serial No. 189,402. 3 Claims. (Cl. 192—10.)



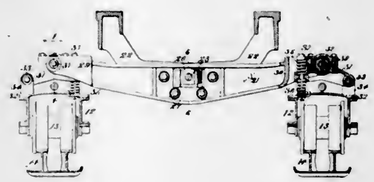
1. A multiple disk clutch including driving and driven members with interposed friction disks, a pressure plate for the disks, a collar carried slidably on the hub of the driving member, a plurality of clamping devices carried by the collar and acting upon the pressure plate at points equidistantly spaced, means for actuating said clamping devices to control the pressure plate, and means for adjusting the position of said collar to vary the effectiveness of the clamping devices upon the pressure plate, said means comprising a spacing sleeve on the hub abutting the collar, and an adjusting nut on the outer end of the hub to move said sleeve, said collar being slidable over the sleeve and nut.

1,344,362. GOVERNOR-CONTROLLED THROTTLE-VALVE. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 1, 1917. Serial No. 189,403. 4 Claims. (Cl. 137—140.)



4. A governor controlled throttle valve mechanism comprising in combination with an internal combustion engine, an intake, a throttle valve normally tending on suction to remain open, a governor and direct connections between the governor and valve whereby on an increase of engine speed beyond a predetermined point the governor operates correspondingly to close the valve.

1,344,363. TRACTOR-FRAME SUSPENSION. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 25, 1918. Serial No. 236,524. 18 Claims. (Cl. 305—9.)



1. In a vehicle, the combination of a frame, a self-laying, flexible, endless track member at each side of the frame, trucks within the track members, and an equalizer bar centrally pivoted to the frame and pivoted at its ends to the trucks, said equalizer bar having a universal pivotal motion on a central pivot and forming a support for one end of the frame, the other end of the frame being supported on the trucks.

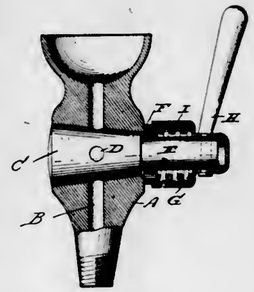
2. In a vehicle, the combination of a frame, a self-laying, flexible, endless track member at each side of the frame, trucks within the track members, and an equalizer bar centrally pivoted to the frame and pivoted at its ends to the trucks, said equalizer bar having a universal rocking motion in vertical and horizontal planes and also having a bodily fore and aft motion on its pivot and forming a support for one end of the frame, the other end of the frame being supported on the trucks.

3. In a vehicle, the combination of a frame, a self-laying, flexible, endless track member at each side of the frame, trucks within the frame, yielding load-supporting connections between the rear end of the frame and the trucks, and an equalizer bar at the front end of the frame for supporting the latter on the trucks, said equalizer bar having a single point of connection with the main frame and so constructed and arranged that said equalizer bar has a limited fore and aft sliding motion at its said point of connection.

4. In a vehicle, the combination of a frame, a self-laying, flexible, endless track member at each side of the frame, trucks within the frame, yielding load-supporting connections between the rear end of the frame and the trucks, a rigid equalizer bar at the front end of the frame for supporting the latter on the trucks, said equalizer bar having a single point of connection with the main frame and so constructed and arranged that said equalizer bar has a limited fore and aft sliding motion at its said point of connection, and universal spring connections between the ends of the equalizer bar and the respective truck.

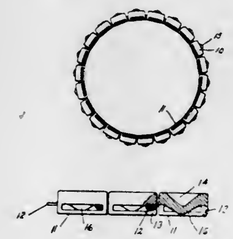
5. In a vehicle, the combination of a main frame and an equalizer bar forming a load support, said equalizer bar having a single point of connection with the main frame and having a rocking motion in a vertical plane and in a horizontal plane.

1,344,364. VALVE. GEORGE A. VIS, Detroit, Mich., assignor, by mesne assignments, to Brown-McLaren Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed May 24, 1919. Serial No. 299,663. 3 Claims. (Cl. 251—112.)



1. In a device of the character described, a body portion having a tapering socket to receive a valve, a tapering valve fitted to said socket having a stem projecting from its contracted end to receive a spring, a spring sleeved upon the valve stem adapted to maintain the valve snugly incased in the tapering socket of the body portion, a cap fitted to the end of the stem, having an enlarged annular portion overlapping the spring and forming a shoulder against which the outer end of said spring is adapted to bear, the wall of said cap beyond said shoulder being provided with a slot, an operating handle extending through said slot and said valve stem to permit operation of said valve, said handle also serving as means for maintaining said cap in position and causing said spring to exert pressure on said valve.

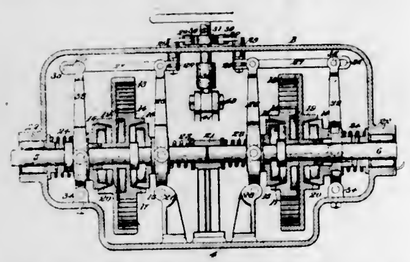
1,344,365. BRACELET. HARRY WACHENHEIMER, Providence, R. I., assignor to Wachenheimer Bros., Providence, R. I., a Copartnership composed of Jacob Wachenheimer, Samuel Wachenheimer, and Harry Wachenheimer. Filed Dec. 26, 1919. Serial No. 347,360. 3 Claims. (Cl. 63—4.)



3. A bracelet constructed of a series of units yieldably connected together, each unit comprising a body portion

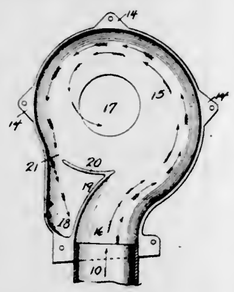
shaped to form a gem setting the center portion of the bottom of the body extending downwardly beyond the plane of the surrounding portion thereof, and downwardly extending side flanges on each body providing a supporting base for the body.

1,344,366. DOUBLE-GEAR TRANSMISSION MECHANISM. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 16, 1915. Serial No. 45,640. 5 Claims. (Cl. 180—9.2.)



5. In a transmission mechanism, a driving shaft, a pair of longitudinally alined driven shafts parallel to the driving shaft, constantly meshing gears operatively connecting all of said shafts, means effecting the operation of the gears to cause the drive shaft to rotate the driven shafts forward or reverse in unison, or forward or reverse independently of each other, and a single controlling means for producing said actions.

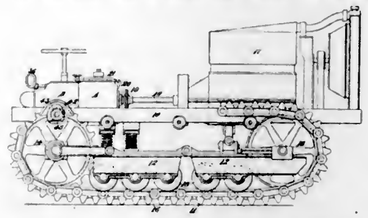
1,344,367. MUFFLER FOR EXPLOSIVE-ENGINES. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed July 16, 1918. Serial No. 245,133. 5 Claims. (137—160.)



1. A muffler for explosive engines comprising a hollow casing adapted to be disposed in communication with the end of an exhaust pipe, an annular passageway within the casing formed with a peripheral inlet opening, a sound deadening chamber inclosed within the casing having its opening tangentially disposed to the path of travel of gas, and axial outlet ports formed in the opposite sides of the casing wa...

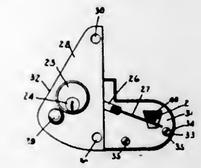
1,344,368. POSITIVE-REDUCTION STEERING TRANSMISSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 7, 1919. Serial No. 295,398. 3 Claims. (Cl. 180—9.2.)

1. In a transmission mechanism, driving means, a drive shaft operated thereby, driving sleeves freely mounted upon the opposite ends of said shaft, final drive pinions secured on the ends of said sleeves, and positive reduction gearing establishing communication between the sleeves and the shaft on which they are mounted, said gearing comprising an outer drum, a brake on the drum, a ring gear secured within the drum, pinions meshing with said gear, two parallel worm spindles, operating pinions be-



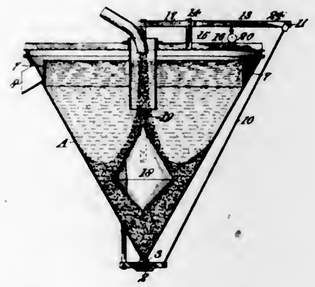
tween the parallel worm spindles and the first mentioned pinions, and a central worm wheel meshing with worms on said worm spindles, the said central worn wheel being fixed to the driving sleeve, whereby a variation in speed may be imparted to either of the final drive pinions from the constantly driven shaft.

1,344,369. SHORT-CIRCUITING LOCK FOR MOTOR-VEHICLES AND THE LIKE. HOWARD A. ZEHRINGER, Indianapolis, Ind., assignor of one-third to Oscar L. Pond, Indianapolis, Ind. Filed Dec. 23, 1919. Serial No. 346,830. 11 Claims. (Cl. 123—146.5.)



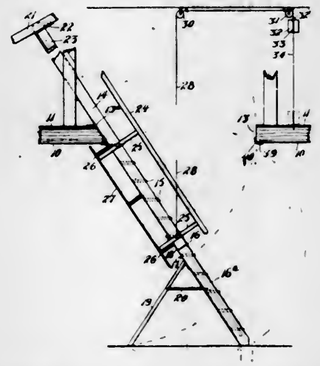
1. A short circuiting automobile lock including a power terminal, an insulating plug surrounding the same and having a slot extending transversely of and partially through the same providing access to said terminal, a lock, and a pivoted contact finger operable by said lock, said contact when in the short circuiting position being seatable in said slot and in engagement with said terminal, said finger being grounded to the automobile frame.

1,344,370. AUTOMATIC DENSITY-INDICATOR FOR SLIME-PULP SEPARATORS. CHARLES ALLEN, El Paso, Tex. Filed Apr. 3, 1919. Serial No. 287,124. 3 Claims. (Cl. 210—54.)



1. In a device for separating a feed stream into two products, each of a different density, a receptacle having a separate outlet for each of the products, a valve for controlling the outlet for the heavier product, means automatically responsive to the variations in the density of the heavier product to control the discharge valve, an indicator operatively connected to the control means for indicating the density of the discharge material, and means in connection with the indicator to set the control means so that the discharge will occur only when a predetermined density is reached.

1,344,371. DISAPPEARING STAIRWAY. THOMAS N. BAIGER, Berkeley, Calif., and WILLIAM G. SMITH, Wallace, Idaho. Filed Apr 23, 1918. Serial No. 230,323. 5 Claims. (Cl. 228—50.)

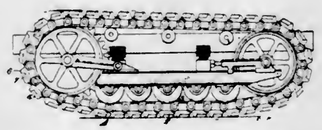


1. A disappearing stairway adapted to swing through an opening in a ceiling, comprising a pair of side rails hinged midway their length to one side of said opening, one portion of said rails adapted to swing downwardly through the ceiling opening, a plurality of steps rigidly secured between said rails, an auxiliary stair section secured to the lower end of said rails and adapted to swing downwardly to bear upon the floor and to complete the length of stairway, and stop means against which the upper ends of the rails rest when the stairway is in its unfolded position.

1,344,372. TREATMENT OF STEEL, IRON, AND SIMILAR ARTICLES. HENRY C. BAINES, East Cleveland, Ohio, assignor, by mesne assignments, to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 6, 1916. Serial No. 118,745. 11 Claims. (Cl. 148—8.)

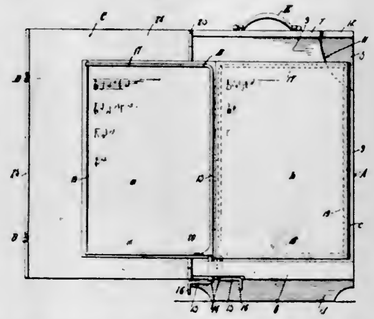
3. The treatment of iron, steel, or articles having a surface of iron or steel, which comprises subjecting the same to the action of a solution of a phosphorous compound capable of depositing with or forming upon said articles a protective coating in the presence of an agent capable of evolving nascent hydrogen in the body of said solution.

1,344,373. TRACK-LINK FOR CHAIN TRACKS. CHARLES F. BALL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Nov. 7, 1918. Serial No. 261,466. 2 Claims. (Cl. 305—10.)



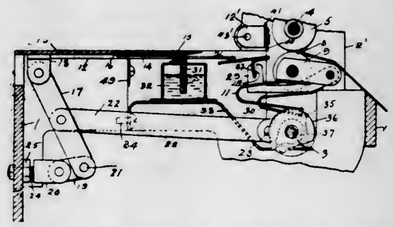
1. A chain track comprising articulated links having successive flat tread portions which alone come in contact with the ground when traveling over hard, smooth surfaces, which links are provided with secondary tread surfaces, and outstanding ribs which come into operation only when working in soft ground and coöperate with the said primary surfaces.

1,344,374. PORTABLE MUSIC-SHEET CONTAINER AND TURNER. ALBERT M. BEAN, Colville, Wash. Filed Oct. 19, 1918. Serial No. 258,817. 6 Claims. (Cl. 84—17.)



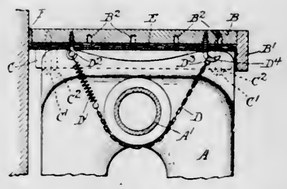
1. A device of the class described having a cabinet, said cabinet being provided with a compartment for music sheets and a second compartment, turning mechanism in the second compartment, and closure means common to both compartments.

1,344,375. ENVELOP-SEALER. ALEXANDER BEVAN, Providence, R. I. Filed Mar. 15, 1917. Serial No. 154,967. 14 Claims. (Cl. 120—6.)



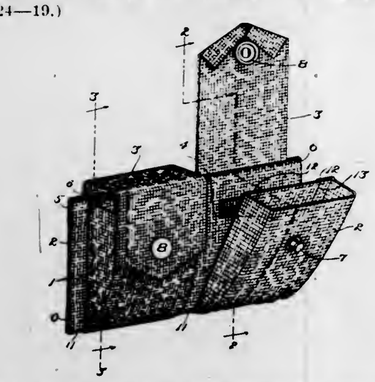
4. In an envelop sealer, a receptacle for envelops, a driven sealing roll, a coöperating sealing roll, pivoted bearing arms in which said latter roll is journaled, a U-shaped spring attached to each bearing arm, cams bearing upon said springs whereby the said latter roll is held in yielding feeding contact with the other roll, said cams also permitting said yielding roll to move from driving contact at predetermined periods, means for moistening the envelop flap, and means for feeding the envelop to said rolls.

1,344,376. RADIATOR-COVER. JOHN A. BRODIN, Chicago, Ill., assignor of one-third to Evald E. Brodin and one-third to Norman V. Christensen, Chicago, Ill. Filed Feb. 6, 1919. Serial No. 275,305. 8 Claims. (Cl. 248—30.)



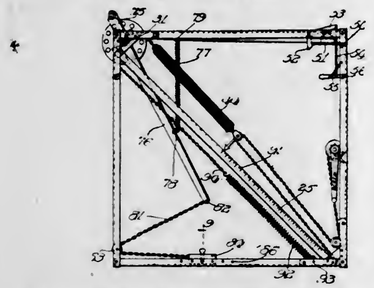
1. In a protector for heated areas, a grained fibrous strip provided with longitudinal slots diagonal to the grain, and downwardly depending sides surrounding it.

1,344,377. WOVEN CARRIER. HORACE CLIFFORD BROTHERS, Worcester, Mass., assignor, by mesne assignments, to Frank R. Batchelder, Worcester, Mass. Filed Aug. 13, 1918. Serial No. 249,715. 3 Claims. (Cl. 224—19.)



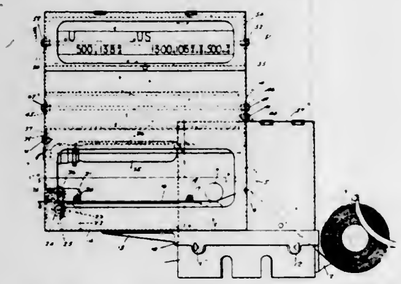
1. A carrier formed of woven material, comprising a back formed with a housing-slit in its lower portion, a woven pocket having at its bottom a projecting fin that is entered into said housing-slit and secured therein, forming a hinge-connection, and means for limiting the forward swing of the pocket away from the back.

1,344,378. BOMB-THROWING MACHINE. WARD BUTLER, Chicago, Ill. Filed Aug. 24, 1918. Serial No. 251,227. 6 Claims. (Cl. 124—1.)



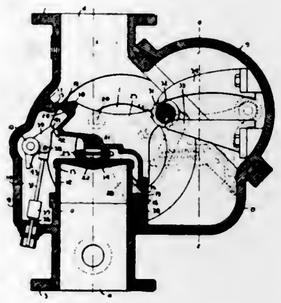
1. A throwing machine, comprising a throwing arm, a return motor and a throwing motor, said throwing motor propelling the throwing arm in throwing and storing the power in the return motor for returning said throwing arm to normal position.

1,344,379. ILLUMINATED DISPLAYING DEVICE. JOHN HARTFORD CHIDESTER, Summit, N. J. Filed Mar. 1, 1917. Serial No. 151,651. 1 Claim. (Cl. 88—24.)



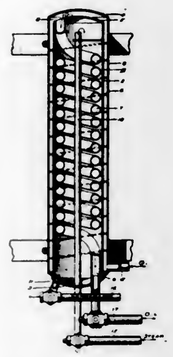
An attachment for stock tickers comprising in combination a frame having a contour to conform to the shape of a stock ticker cabinet, means for removably securing said frame to said cabinet, a casing fixed to frame and having communication with the ticker tape outlet of said cabinet, said casing being provided with a pair of sight openings, means to feed a ticker tape from said outlet transversely of said casing and in visible relation to one of said sight openings, a lamp arranged to illuminate said tape, transparent material in said openings, and means to project upon the other of said openings a true image of tape data.

1,344,380. DRY-PIPE VALVE. EZRA E. CLARK, Newtonville, Mass. Filed Sept. 25, 1919. Serial No. 326,173. 7 Claims. (Cl. 169—22.)



1. A dry pipe valve comprising a casing, a water valve and an air valve connected to form a single valve structure, the water valve being of less area than the air valve, valve seats therefor, a link structure connecting the valve structure to the casing and a guide between the casing and the valve structure, the said link structure and guide acting together to control the movement of the valve structure as it travels bodily off and on to the seats and to and from a position at the side of the waterway.

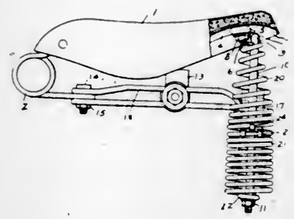
1,344,381. HEATER. GARNET W. COEN, San Francisco, Calif. Filed May 19, 1919. Serial No. 298,280. 12 Claims. (Cl. 257—229.)



1. In a heater of the character described, a casing having an exterior and an interior chamber formed therein, said chambers being inclosed and separated, means for circulating a heating medium through the interior chamber, and means for circulating oil both through the exterior and the interior chamber.

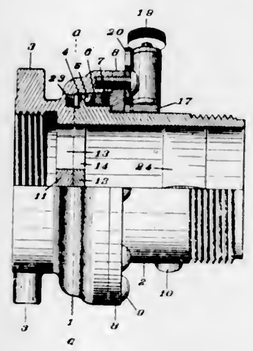
1,344,382. SADDLE-SPRING SUPPORT. THOMAS J. CONDON, Detroit, Mich. Filed Apr. 16, 1919. Serial No. 290,522. 1 Claim. (Cl. 208—15.)

A saddle support comprising in combination with the saddle base, a frame, a stem engaging the saddle base at its upper end and extending downwardly below said frame, and a composite spring comprising a compression member engaged between the saddle base and frame and a tension



member below the frame and normally secured to the lower portion of the stem, said spring being rotatively adjustable through its engagement with the frame to shift more or less of the convolutions above the frame.

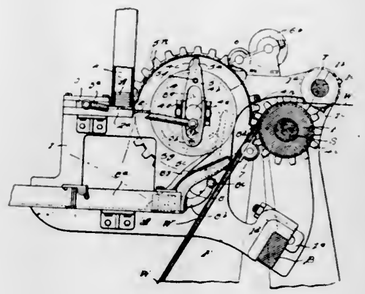
1,344,383. PRESSURE-REGULATION VALVE. WILLIAM F. CONRAN, Brooklyn, N. Y. Filed Dec. 28, 1916. Serial No. 139,286. 2 Claims. (Cl. 299—152.)



1. A device for controlling the flow of water in a pipe line, comprising inlet and outlet members arranged to rotate relatively to each other to regulate the flow and having a straight waterway therethrough, the inlet member having an internal screw thread for attachment to a pipe-line, a perforated diaphragm or valve disk fixed therein, and said member having an enlarged annular part forming a housing, the outlet member seated within said housing and having at its inner or seated end a similarly perforated diaphragm or valve disk fixed thereon and which disk is arranged to make close sliding contact with the first-named valve disk, a retaining ring within the bore of said housing and serving to retain said outlet member in position, a packing material above said ring, a packing ring bolted to said housing, and a locking device mounted on said packing-ring adapted to engage a co-operating locking and indicating member on said outlet member, substantially as set forth.

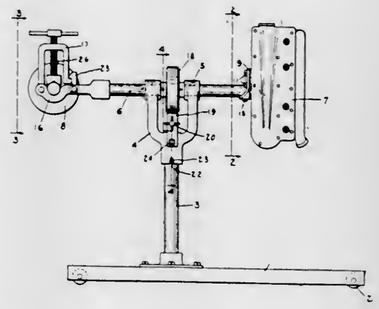
1,344,384. ADDRESSING MECHANISM (SLUG). PAUL F. COX, Chicago, Ill. Filed Oct. 16, 1919. Serial No. 331,152. 28 Claims. (Cl. 101—53.)

11. In an addressing apparatus the combination of a feed galley for slugs; spaced fingers adjacent this galley; a slide for ejecting slugs successively from the galley onto said fingers; a rotatable shaft adjacent the said galley; a slug carrier mounted on said shaft and rotatable therewith and provided with spaced fingers adapted to pass between the slug supporting fingers and remove a slug therefrom; a clamping member mounted on the slug carrier adapted to grip the slug as it is taken from said supporting fingers and hold it during the printing operation; means for causing the clamp gripper to release the slug after the printing operation; stripping fingers adapted to pass between the fingers on the carrier and discharge the slug from the carrier after the printing operation; a receiving galley for the discharged slugs; and means for packing the slugs in the receiving galley.



12. In combination with printing mechanism and folding mechanism having a former; of means opposite and co-operating with the former for applying different addresses to different impressions on the paper as it descends the former.

1,344,385. MOTOR-BUCK. OSCAR M. CRAYS, Indianapolis, Ind., assignor of one-third to Raymond Bellville and one-third to Claude C. Stone, Indianapolis, Ind. Filed Mar. 24, 1919. Serial No. 284,723. 5 Claims. (Cl. 29—89.)

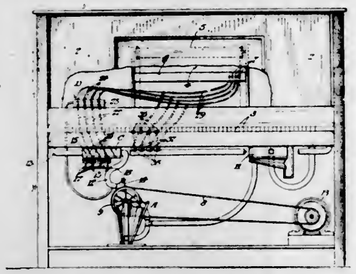


1. A motor buck including a standard, a yoke on the standard, a horizontal supporting shaft carried by said yoke, and means to attach different objects to either or both ends of the supporting shaft.

1,344,386. PRESSURE-RESERVE METHOD AND MECHANISM FOR PIANO-PLAYERS. JOSEPH W. DICKINSON, Cranford, N. J. Filed June 16, 1916. Serial No. 103,948. 48 Claims. (Cl. 84—168.)

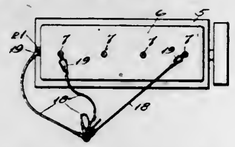
7. In a piano player having a normally constant pressure and operated only by a single pressure at any time, the combination of pneumatically operated mechanism for

storing and holding in reserve a plurality of different pressures, and means for releasing any of said pressures



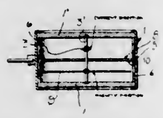
independently of another on any note or notes of the piano, thereby to vary the tone thereof.

1,344,387. INTERNAL-COMBUSTION-ENGINE-TESTING DEVICE. ROY G. EGGERTON, Suffolk, Va. Filed May 26, 1916. Serial No. 100,105. 2 Claims. (Cl. 175—183.)



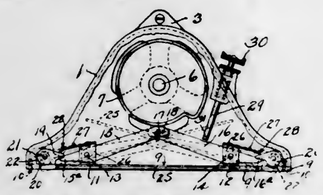
1. A testing device of the character described including a plurality of electricity conductors detachably connected together and clamping members carried by the outer end of the same.

1,344,388. COMBINATION MAGNETIC AND ELECTRIC POLARITY-INDICATOR. CARL W. EISENMANN, Nebraska City, Nebr. Filed Aug. 16, 1919. Serial No. 318,000. 1 Claim. (Cl. 175—183.)



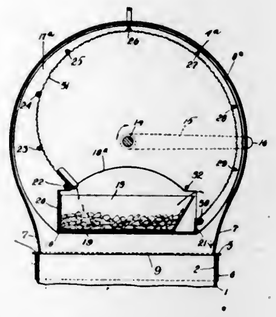
The combination of a magnetic and electric polarity indicator, comprising a casing, a balanced rotatable element consisting of a magnetic and a non-magnetic needle rigidly secured to a spindle mounted rotatably in bearings, an individual dial for each needle, said needles being positioned at right angles to each other in a particular fixed direction, so that they respectively indicate the direction of a magnetic field and of an electric current.

1,344,389. CARPET-SWEEPER. WILLIAM A. FICKES, Altoona, Pa. Filed Mar. 19, 1919. Serial No. 283,521. 5 Claims. (Cl. 15—60.)



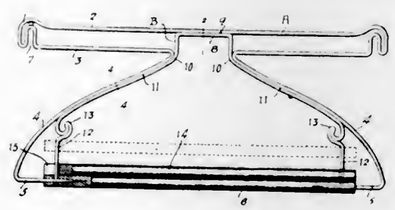
1. A beater unit for vacuum cleaners including a carrier bar arranged longitudinally of the nozzle mouth, beater-strips located on opposite sides of the bar and rockably supported at opposite ends thereof, and cam operated lever means for rocking said beater strips.

1,344,390. ASH-SIFTER. WALTER F. GODDARD, Somerville, Mass., assignor to Dustless Victory Sieve Company, Boston, Mass., a Corporation of Massachusetts. Filed July 28, 1919. Serial No. 313,841. 3 Claims. (Cl. 83—60.)



1. An ash sifter comprising a casing and a rotatable unit including two similar heads, means for supporting an ash pan between said heads, and a screen extending from one head to the other with its ends terminating adjacent opposite sides of the pan support and in different horizontal planes, said screen extending about the axis of the unit on a line that gradually approaches said axis from its receiving to its delivery end.

1,344,391. GARMENT-HANGER. DAVID GOLDSMITH, Newark, N. J. Filed Jan. 20, 1920. Serial No. 352,738. 5 Claims. (Cl. 211—13.)

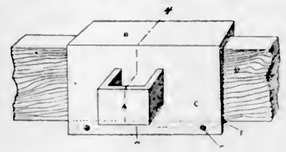


3. A garment hanger including a frame constructed of a single piece of wire, said wire being bent at a pair of intermediate points in its length to form a body portion, portions thereof being returned upon said body portion to form a supporting head, and said returned portions being bent to form oppositely extending garment supporting arms, and a second piece of wire connected between said body portion and said returned portions, said second wire being also connected to said garment supporting arms to reinforce the same.

1,344,392. MANUFACTURE OF MANGANESE-STEEL SHEETS. ROBERT ABBOTT HADFIELD, Westminster, England. Filed Aug. 17, 1917. Serial No. 186,720. 8 Claims. (Cl. 148—12.)

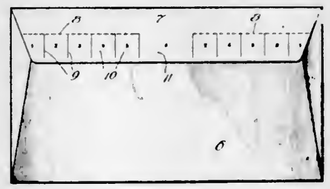
1. The manufacture of sheet manganese steel which consists in gradually reducing a slab of manganese steel by a succession of rolling operations while at a suitable forging temperature into a sheet of the desired thickness and so that the temperature of the sheet at the last rolling operation is of the order of about 850° C., annealing the resulting sheet, heating the annealed sheet rapidly and equally and for a short time only, to a high temperature and then plunging it into a cold liquid.

1,344,393. STAKE-POCKET. JEREMIAH HAYES, Everett, Wash. Filed Apr. 8, 1919. Serial No. 288,631. 7 Claims. (Cl. 105—390.)



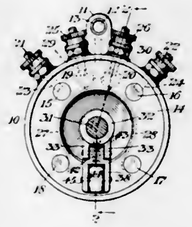
1. A car stake-pocket comprising an all-metal frame adapted to straddle a car sill to support a metal stake-pocket integral therewith and means extending under the sill for securing the same to the sill without puncturing the sill.

1,344,394. ENVELOP. GEORGE A. HOFFMAN, Chicago, Ill. Filed Sept. 27, 1919. Serial No. 326,907. 1 Claim. (Cl. 229—73.)



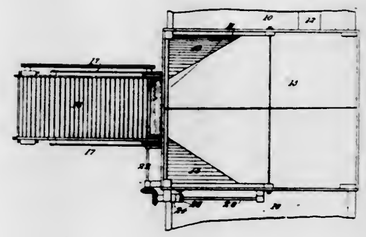
An envelop having a closure flap which is perforated from its ends toward the center, there being other cuts extended transversely from the perforations toward the flap edge providing a plurality of detachable flap sections each of which is gummed on its rear side for adhesion to the envelop body, the flap affording a closure for the envelop when the two sections thereof at opposite ends of the flap are adhered to the body and affording an opening for the envelop when such two adhered sections are detached from the body, a plurality of closures being thereby provided each capable of being successively utilized, substantially as described.

1,344,395. TIMER. JOHN A. HOLM, New York, N. Y. Filed Feb. 21, 1919. Serial No. 278,413. 4 Claims. (Cl. 200—24.)



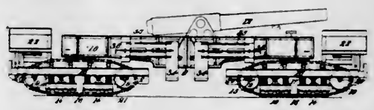
4. In an ignition timer and in combination, a body of insulating material having an interior annular raceway, a series of fixed contacts seated therein with their surfaces flush with the surface of the raceway, two or more metallic blocks set into said raceway below its surface, binding posts with terminals engaging certain of said fixed contacts, binding posts with terminals engaging said metallic blocks, conductors extending from said blocks into contact with the remaining fixed contacts, a rotary shaft extending into the body, a hub secured to said shaft and provided on one side with two spaced parallel lugs extending laterally therefrom, a member forked at one end and provided with a reduced portion at its other end having a right angle extension pivoted between said spaced lugs, said reduced portion having a longitudinal recess, a contact block pivoted in the forked end of said member, and a spiral spring located within said recess and extending therefrom to bear upon one side of the hub between said lugs.

1,344,396. COMBINED HARVESTER AND THRESHER. LEN C. HOLT, Spokane, Wash., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Dec. 12, 1916. Serial No. 136,548. 3 Claims. (Cl. 193—14.)



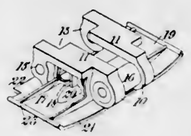
1. A bulk grain attachment for traveling threshers comprising a receptacle of large capacity detachably connected to the side of the thresher frame beneath the usual grain spout, an upwardly and outwardly extending elevator carried by the receptacle for discharging grain therefrom into a vehicle moving alongside the thresher and operating means for the elevator connected to the threshing mechanism.

1,344,397. GUN-CARRIAGE. PLINY E. HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 14, 1917. Serial No. 168,386. 13 Claims. (Cl. 105—157.)



1. A gun carriage comprising a main frame and a self-propelled tractor truck mechanism at each end supporting the same, each of said truck mechanisms being pivotally connected for turning movement relative to the frame, the connection being such as to permit rocking movement of the truck mechanisms about transversely and longitudinally extending axes.

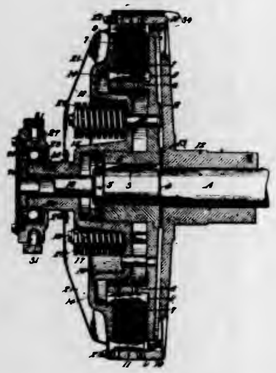
1,344,398. TRACK-CHAIN. PLINY E. HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 26, 1917. Serial No. 193,376. 5 Claims. (Cl. 305—10.)



1. A track link comprising spaced side bars, the inner longitudinal edges being formed with rails to support a roller truck mechanism, and a shoe carried on the outer longitudinal edges of the side bars, said shoe having an

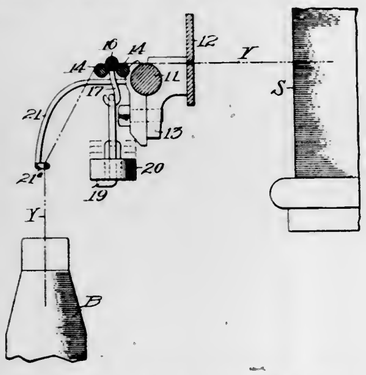
inward depression extending transversely of the side bars intermediate the ends of the latter, said depression serving as a ground gripper in soft ground, and also as an arch to transmit the weight on the intermediate portion of the said bars to the ends of the shoe when the shoe is traveling on a comparatively hard smooth surface.

1,344,399. STEERING-CLUTCH. PLINY E. HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 20, 1918. Serial No. 235,645. 2 Claims. (Cl. 192—10.)



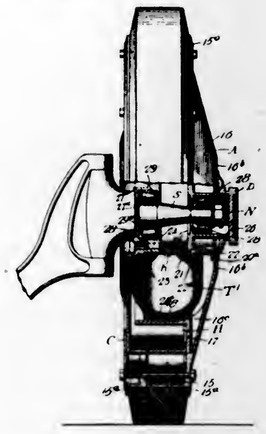
1. A clutch mechanism comprising a driving shaft, a head fixed upon the driving shaft, a set of clutch disks carried thereby, a drum inclosing said head and freely turnable on the driving shaft, a set of disks carried by the drum to coöperate with the first mentioned set of disks, a pressure plate carried by the head and operable against the disks at the side opposite the head, stud bolts fixed to the head and passing through apertures on the pressure plate, springs on the stud bolts to force the pressure plate against the clutch disks, a removable cover plate closing the drum at the side adjacent to the pressure plate, a hub on the pressure plate carried by and slidable on the driving shaft and projecting through the cover plate, a dust excluding packing between the hub and cover plate, and means connected with the hub portion of said pressure plate for actuating the latter to control the operation of the clutch.

1,344,400. YARN-TENSION DEVICE. LEWIS T. HOUGHTON, Worcester, Mass. Filed Jan. 17, 1916. Serial No. 72,435. 8 Claims. (Cl. 242—149.)



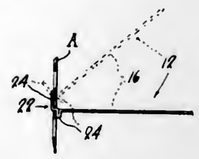
1. A yarn tension device comprising a pair of fixed substantially parallel yarn-guiding rods and a non-rotatable tension member supported by said rods, the yarn passing over said rods and under said member and being pressed into frictional engagement between each rod and said tension member and said tension member being vertically movable to relieve excessive tension on the yarn.

1,344,401. PNEUMATIC WHEEL. EDWIN BOOTH HUDSON, Middletown, Ohio. Filed Oct. 28, 1919. Serial No. 333,910. 5 Claims. (Cl. 152—41.)



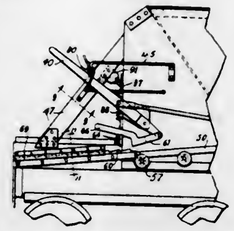
4. A wheel comprising, a rim adapted to receive a solid tire, a rib formed internally of the rim, a disk formed on the outer edge of the rim and including a straight portion and a convex portion, an annulus secured to the straight portion, a hub arranged concentrically within said annulus and extending through the convex portion of said disk, a hub portion including a hub, a sleeve formed on one end of the hub, an extension formed on the same end of the hub and surrounding said sleeve, a collar threadedly engaging said extension, a hub cap on said sleeve, flanges formed on said collar and said cap for slidably receiving the inner edge of said disk therebetween, gripping flanges formed on said hub and said collar for confining a tube on said hub, a housing formed integral with the opposite end of said hub, a pneumatic tube between said hub and said annulus and engaged by said gripping flanges, a cover plate spanning said wheel at the side opposite from the side of said disk, and means extending through said rib and said disk for securing said coverplate to the wheel.

1,344,402. FOOTREST. ANNIE M. HUNTER, Akron, Ohio. Filed July 9, 1919. Serial No. 309,589. 1 Claim. (Cl. 155—168.)



A foot rest made of a single length of bar metal, having two right angular upwardly extending arms, each arm near its end being bent downward at a right angle to form a fulcrum ear of double thickness from which the metal is continued in alinement with its connected shoulder at a right angle to said fulcrum ear to form a supporting shoulder, from which extends upwardly at a right angle a terminal lug arranged to be stopped against the rear face of a register, when said rest is in a horizontal plane, all arranged as shown.

1,344,403. DUMP-CAR. FRANK S. INGOLDSBY, Pine Lake, Mich., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Oct. 16, 1916. Serial No. 125,787. 28 Claims. (Cl. 105—288.)



1. In a dump car, the combination, with a dumping door, of a closing device comprising an inclined bodily-movable bar, a flexible member leading from the bar over a pulley to the door, and means for moving the bar longitudinally thereof, the incline of the bar being in the direction to give it a gravitational tendency to take up the slack in the flexible member.

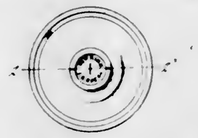
1,344,404. REMOVABLE TOP FOR PITCHERS AND THE LIKE. DAVID ADDISON JENKINS, Kokomo, Ind., assignor to D. C. Jenkins Glass Company, Kokomo, Ind., a Corporation. Filed Mar. 26, 1920. Serial No. 368,848. 1 Claim. (Cl. 65—31.)



A pitcher including a cover, an elongated boss positioned upon the pitcher, said boss being substantially wedge-shaped in cross section, an elongated hinge supporting plate, including a body portion and having inwardly turned side edges, each adapted to engage the wedge-shaped side of said elongated boss, said plate being slidable longitudinally upon said elongated boss, hinge means supported near one end of sail plate for pivotally supporting said cover, the body portion of said plate at the other end being slotted longitudinally intermediate the side edges, said longitudinal slot terminating intermediate the ends of said plate body portion in an enlarged opening, and a boss projecting outwardly from said elongated boss and intermediate the sides thereof, said boss being complementarily formed so as to be seatable in said enlarged opening to yieldingly lock said plate to said pitcher.

1,344,405. BEADING-MACHINE. OTTO H. JENSEN, Buffalo, N. Y., assignor to The Republic Metalware Company, Buffalo, N. Y., a Corporation of New York. Filed Sept. 26, 1917. Serial No. 193,375. Renewed May 17, 1920. Serial No. 382,080. 5 Claims. (Cl. 113—1.)

3. In a machine of the character described, the combination of a chuck comprising an upper rotary member, a vertically-movable plunger arranged beneath the same, a lower chuck-member rotatably mounted on said plunger, means for intermittently elevating said plunger, a brake



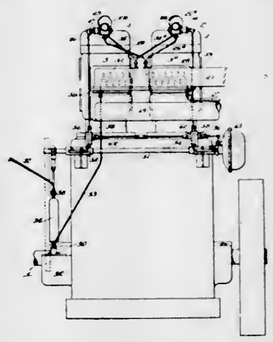
arranged to arrest rotation of said lower chuck-member upon receding from the upper one, means for causing said brake to follow the ascent of the lower chuck-member, and a beading roller coöperating with the chuck.

1,344,406. ELECTRICAL-RESISTANCE WIRE. ALBERT H. JOHNSON, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Dec. 19, 1919. Serial No. 345,972. 6 Claims. (Cl. 219—63.)



1. An electrical resistance element comprising loops of wire of substantially circular cross section and connecting sections, the connecting sections being flattened to produce oppositely disposed elongated sections.

1,344,407. INTERNAL-COMBUSTION ENGINE. PHILIP D. JOHNSTON, Cold Spring, N. Y. Filed Nov. 24, 1911. Serial No. 662,111. 7 Claims. (Cl. 123—33.)

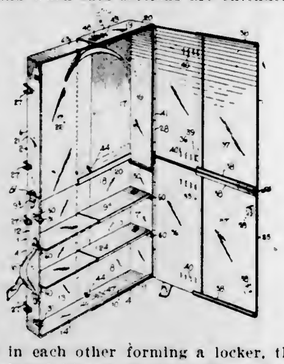


1. An internal combustion engine having an atomizing injector, said atomizing injector having a passage for air, means for impressing air under pressure in the passage, a tapered valve seat in the passage, a passage for liquid fuel entering through the valve seat, the outlet thereof being in the valve seat, means for impressing liquid fuel under pressure in the fuel passage, a tapered valve having a single head, means for engaging the head with the seat and closing the air passage and the fuel passage, said valve opening in the direction against the air pressure, and means for operating the valve in sequence with the operating cycle of the engine.

1,344,408. COMBINED DRESS-SUIT CASE AND LOCKER. THOMAS W. KING, Long Island City, N. Y. Filed Nov. 7, 1918. Serial No. 261,459. 5 Claims. (Cl. 190—15.)

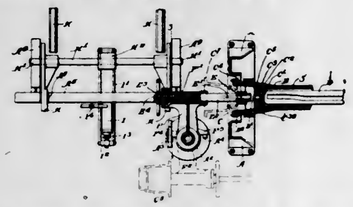
1. A combined suit case and locker comprising a pair of sections composed of telescopic members, certain of which have perforated ears, a collapsible door normally

retained in the sections, a rod for engaging the perforated ears, the sections when hinged together forming a suit case, and when said sections are extended and fitted



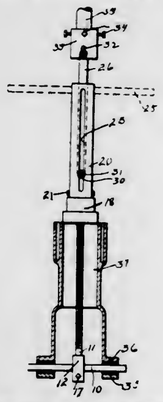
end to end in each other forming a locker, the door being extended and hinged on the perforated ears by the rod to form a closure for the locker.

1,344,409. CENTRIFUGAL CASTING-MACHINE. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,655. 18 Claims. (Cl. 22—65.)



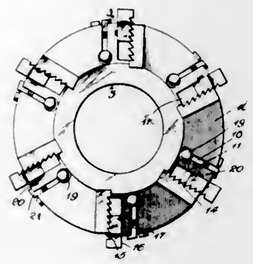
1. In a centrifugal casting apparatus, the combination with a mold body and a support in which said body is rotatably mounted, of an end member adapted to be inserted in and detachably secured to said mold body and means for removing said end member into and out of the mold body comprising a pivoted arm mounted to turn about an axis transverse to, and at one side of the axis of said mold body.

1,344,410. APPARATUS FOR REBORING CYLINDERS. EDWARD E. LARSON, Thompson, Iowa. Filed Oct. 6, 1919. Serial No. 328,696. 4 Claims. (Cl. 77—2.)



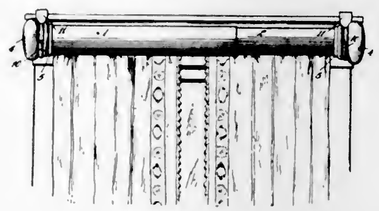
1. In apparatus for reboring cylinders of engines, a shaft adapted to be mounted in the crank shaft bearings of the engine, a threaded guide shaft adapted to be secured at one end to said shaft and alined with the bore of the cylinder, the other end of said guide shaft being free from connection with the cylinder, a boring element provided with internal screw threads adapted to engage the threads of said guide shaft, and means for rotating said boring element, said guide shaft being of such length as to permit the insertion of the piston while in position.

1,344,411. ADJUSTABLE REAMER. EDWARD E. LARSON, Thompson, Iowa. Filed Dec. 13, 1919. Serial No. 344,531. 5 Claims. (Cl. 77—75.)



1. In a reamer, a body portion provided with spaced radial slots, tapered keys disposed within said slots and provided upon one side thereof with serrations, cutter members arranged within said slots and provided with serrations adapted to coact with the serrations in said keys and means for locking said cutter members in position.

1,344,412. CURTAIN-FIXTURE. STEPHEN J. LASK, Cleveland, Ohio. Filed June 7, 1919. Serial No. 302,622. 2 Claims. (Cl. 156—19.)

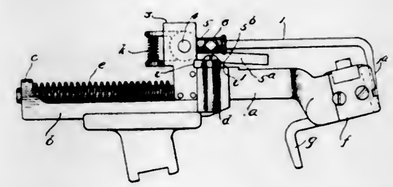


1. A hollow slotted telescopic curtain pole having end pieces slidable on and off the same, and a telescopic rod in the pole formed of two sections each of which is rigidly fixed to one of said end pieces and slidable therewith, whereby the rod is extended or contracted by movement of said end pieces, said rod being adapted to support a curtain or the like in position to hang through said slot.

2. A hollow telescopic curtain pole having a longitudinal slot, removable heads on the ends of the pole, and a plurality of sectional rods extending lengthwise within the pole and eccentric to the axis thereof, the sections of the rods being fixed at their ends to the inside of the heads respectively.

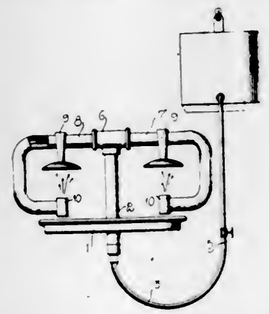
1,344,413. SELVAGE-FORMING DEVICE. HECTOR LEDOUX, Boston, Mass., assignor to The Stafford Company, Readville, Boston, Mass., a Corporation of New Jersey. Filed Mar. 18, 1920. Serial No. 366,814. 3 Claims. (Cl. 139—36.)

2. The combination with a roller temple having its head channeled vertically adjacent the outer end of the bur roll, of a selvage-protector arm receiving a vertical movement in the reciprocations of the temple-head and having an



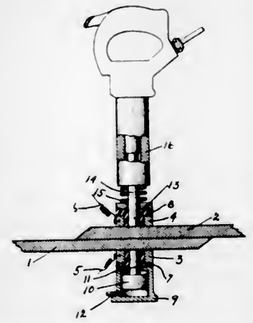
acting point which works in the channel alongside the outer end of the adjacent temple-roll.

1,344,414. LIQUID-FUEL BURNER. JOSEPH C. LOCKHART, Wellington, Kans. Filed Oct. 1, 1919. Serial No. 327,776. 1 Claim. (Cl. 158—65.)



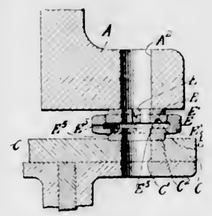
An oil burner comprising a generator pan, a generator pipe passing through said pan and having branching pipes extending in opposite horizontal directions above said pan, thence downward, and thence inward, and terminating in a jet, a conduit leading to said generator pipe from a source of liquid fuel supply, flash plates depending from said branch pipes and positioned over said jet ends, and a hollow imperforate tube extending through said pipes and constituting an extension of said conduit and terminating at said jet ends.

1,344,415. ELECTRIC WELDING APPARATUS. FREDERICK V. D. LONGACRE, Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 25, 1918. Serial No. 246,707. 2 Claims. (Cl. 219—4.)



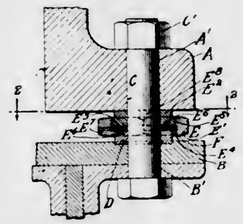
1. In an apparatus for welding metal plates by the simultaneous fusing of the metal thereof and the delivery of a rapid succession of blows thereon, a pair of electrodes adapted to be forced directly against opposite sides of overlapped plates, a holder-on disposed against the electrode upon one of said overlapped plates, said holder-on comprising a plunger, and means for maintaining said plunger under heavy pressure against said plate, insulating means interposed between said electrode and said plunger, a cylindrical shank disposed on the opposite side of said plates surrounded by the electrode on said side, insulating means between said shank and the electrode surrounding it, a cover plate placed over said electrode, means adapted to deliver a rapid succession of relatively light blows against a surface of said overlapped plates, and means for conducting electric current to said electrodes to heat the overlapped portions of said plates between the terminals of said electrodes to a high welding temperature by the resistance to the flow of electric current through said overlapped-plate-portions, whereby the metal is simultaneously fused and forced into intimate welding contact by the blows of said fluid operated hammer.

1,344,416. METHOD OF SECURING BED-PLATES TO SOLE-PLATES. LUTHER D. LOVEKIN, Ardmore, Pa. Filed May 28, 1919. Serial No. 300,471. 2 Claims. (Cl. 29—148.)



1. The method of securing bed plates to metallic sole plates, which consists in first alining the bed plate a distance above the sole plate, said bed plate having bolt holes for the holding down bolts, facing off the sole plate around the points through which holding down bolts are to pass to form washer seats, inserting an expanding washer in each of said seats, and expanding said washers to supporting contact with the sole plate, running fused metal into the space between the sections of the expanding washer, boring or reaming out bolt holes through the washer and sole plate in alinement with the bolt hole in the bed plate, and finally securing the bed plate and sole plate together by bolts passing through said bolt holes.

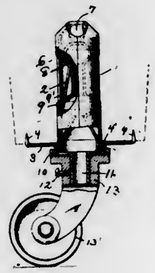
1,344,417. EXPANSIBLE WASHER. LUTHER D. LOVEKIN, Ardmore, Pa. Filed May 28, 1919. Serial No. 300,472. 6 Claims. (Cl. 85—50.)



6. An annular washer consisting of relatively adjustable annular parts screwing together so as to permit of variations in the thickness of the washer and the inner member or members being formed with a tool engaging slot in its inner periphery and the outer member with a wrench

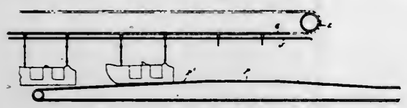
engaging outer surface, in combination with a supplemental annular washer of fusible metal filling the space between the adjustable parts of the washer.

1,344,418. CASTER. WILLIAM H. MCALLISTER, Linden, Pa. Filed Aug. 11, 1919. Serial No. 316,851. 5 Claims. (Cl. 16—4.)



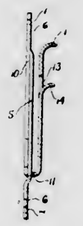
1. A socket for top bearing casters having a ball chamber in its top, a ball in the chamber, and ball engaging members struck in from the sides of the socket at the bottom of the chamber and disposed beneath the ball for keeping the latter in its chamber.

1,344,419. APPARATUS FOR CONVEYING AUTOMOBILE-BODIES AND THE LIKE. JESSE E. MCBRIDE, Highland Park, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 10, 1919. Serial No. 270,535. 12 Claims. (Cl. 34—12.)



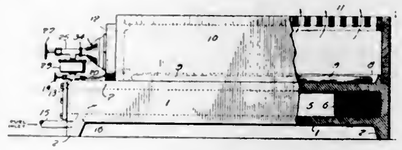
4. An apparatus, comprising a series of alined tunnel ovens having intermediate spaces, a straight line conveyer passing through the series of ovens and intermediate spaces in a plane adjacent to the tops of the ovens, and a series of depending work suspension devices on said conveyer.

1,344,420. TICKET-HOLDER. FRANCESS E. MCDONALD, Chisuncook, Me. Filed Sept. 14, 1917. Serial No. 191,407. 1 Claim. (Cl. 40—16.)



The herein described ticket holder comprising a back having means for fastening it to a seat, a front having flanges for connecting its edges and its lower end with the back to produce an open-topped pocket, the front being transversely slotted below its upper edge, and forwardly bent lips at said upper edge and at a point below the slot, for the purpose set forth.

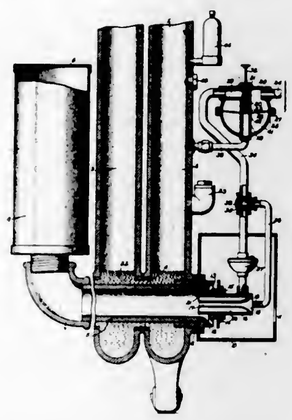
1,344,421. OIL-BURNER. CHARLES CAREY MANKER, Des Moines, Iowa. Filed Apr. 3, 1917, Serial No. 159,483. Renewed May 19, 1920. Serial No. 382,685. 6 Claims. (Cl. 158—69.)



1. A liquid fuel burner comprising a hollow base portion containing an oil chamber, an inlet communicating with the oil chamber, an outlet leading from said oil chamber, a float chamber connected with said oil chamber, a combustion chamber disposed in close proximity to said oil chamber for heating the latter, and a mixing device communicating at one end with the float chamber and discharging at the other end into said combustion chamber.

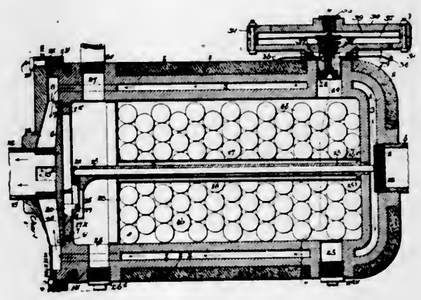
6. An oil burner comprising a valve casing, a valve within said casing, a mixing device carried by said valve casing at one end thereof, said mixing device comprising a conical shell having openings in its sides, a series of flanges having circular openings, said flanges having angularly inclined portions, means for varying the effective area of the openings in the conical shell, said last named means comprising a conical cover having openings arranged to register with the first named openings, said cover being revoluble, and means for locking the cover in revolved position.

1,344,422. RADIATOR. CHARLES CAREY MANKER, Oklahoma, Okla., assignor of one-half to Murray J. Morley, Pittsburgh, Pa. Filed Apr. 5, 1917, Serial No. 160,036. Renewed May 19, 1920. Serial No. 382,686. 3 Claims. (Cl. 236—22.)



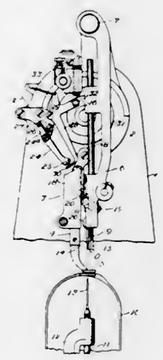
1. In a heating attachment for radiators, a heating tube extending through the lower part of the radiator, means at the end of the tube connecting the tube with the radiator, said tube being open at one end, an apertured cap fitting over said opening, said apertured cap having a plurality of openings near the sides and a large central opening, means for regulating the amount of air passing through said first mentioned openings, a tubular burner arranged in said second mentioned opening, having a central passageway extending therethrough, means for projecting a small quantity of gas through said passageway for presenting a pilot-light, a gas mixer for supplying said tubular burner, with a combustible gas, manually controllable means controlling the gas to said mixer and to said pilot-light, and an automatic controlling means controlling the gas supplied to said manually controlling means.

1,344,423. VAPORIZER FOR HEAVY OILS. CHARLES CAREY MANKER, Pittsburgh, Pa., assignor, by direct and mesne assignments, to Morley-Manker Company, Incorporated, Dover, Del., a Corporation of Delaware. Filed Aug. 16, 1917. Serial No. 186,589. Renewed May 19, 1920. Serial No. 382,687. 3 Claims. (Cl. 236—19.)



1. In a vaporizer for heavy oils, a casing having an inlet and an outlet, a valve for controlling said inlet, a slidable rod secured to said valve, an expansion tube surrounding said rod and having an arm, the end of the expansion tube near the valve being rigidly secured in position, a lever pivotally mounted on the opposite end of the casing and having a pivotal connection with the arm at one end, and being in engagement with the rod at the other end.

1,344,424. THREAD-CONTROLLING DEVICE FOR SEWING-MACHINES. FRANK W. MERRICK, Boston, Mass. Filed Jan. 2, 1918. Serial No. 209,820. 8 Claims. (Cl. 112—57.)



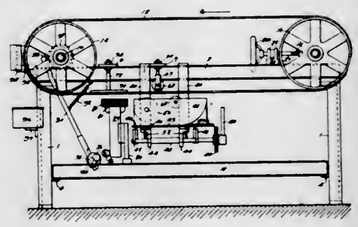
1. In thread-controlling devices, the combination with a take-up, and a thread-grip or thread-lock device adapted to be brought into effective operation to grip or lock the thread by tension of the thread itself, of a movable thread-controller, and means operating said thread-controller independently of the take up into a position in which the direct longitudinal draft upon the thread by the taking-up action operates the thread-grip or thread-lock device to check the thread, and then into a position permitting the thread to render freely past the grip or lock.

1,344,425. DRILL-BIT. PENELTON G. MIDGETT, Dallas, Tex., assignor of one-half to Rosser Thomas, Dallas, Tex. Filed Sept. 2, 1919. Serial No. 320,971. 1 Claim. (Cl. 287—103.)



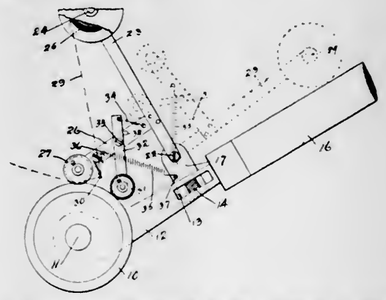
In a drilling bit structure, a bit-point having a rear portion, said rear portion embodying a boss and a recess arranged in end to end relation and having parallel side walls, said recess having a bottom wall provided with an angular socket, a head having a forward portion which embodies a boss and a recess arranged in end to end relation and having their side walls parallel, said bosses fitting in the recesses and disposed in end to end relation with their inner ends contacting, the boss of the bit-point having a smooth opening and the boss of the head having a screw-threaded opening which are adapted to be in alinement, an angular ing carried by the free end of the boss of the head and adapted for insertion within the angular socket, and a screw passing through the smooth opening and engaging in the screw-threaded opening.

1,344,426. LABELING-MACHINE. GEORGE S. MORRIS, Jackson, Mich. Filed May 29, 1919. Serial No. 300,719. 28 Claims. (Cl. 91—54.)



27. The combination of a conveyer, means for applying the obverse of labels thereto, means for thereafter applying adhesive to the reverse of the labels and adjacent portions of the conveyer and means adapted to act after the label is removed for removing surplus adhesive from the conveyer.

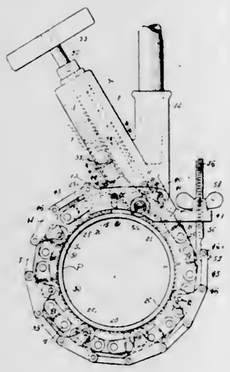
1,344,427. METALLIC-LEAF-APPLYING DEVICE. JOHN MOSCINI, New York, N. Y., assignor to W. H. Coe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed July 26, 1919. Serial No. 313,600. 3 Claims. (Cl. 41—7.)



1. A device for depositing strips of metallic leaf, an operating handle, comprising a depositing roll pivoted to

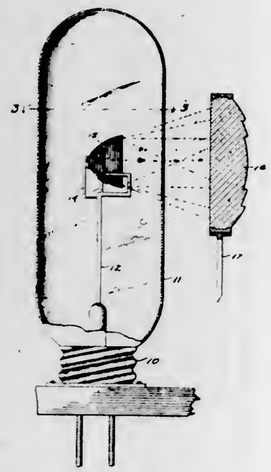
said handle, a frame hinged to said handle, a lubricator for the edge of said roll, a package roll support and a guide for the metal strip all mounted on said frame to cooperate with said depositing roll whereby said frame and said coöperating members supported thereon may be swung back and so removed from proximity with said depositing roll to permit the latter alone to be applied to a heater without affecting said coöperating members.

1,344,428. PIPE AND TUBE SAW. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Feb. 6, 1918. Serial No. 215,587. 14 Claims. (Cl. 29—67.)



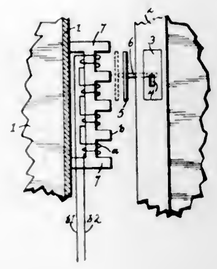
1. In a pipe cutter, the combination with an articulated saw composed of alined elements geared together, of means for contracting it about a pipe, and means for moving it circumferentially thereon.

1,344,429. ELECTRIC LAMP. GEORGE E. RICKER, Fitzgerald, Ga. Filed Jan. 14, 1918. Serial No. 211,844. Renewed May 12, 1920. Serial No. 380,908. 1 Claim. (Cl. 176—34.)



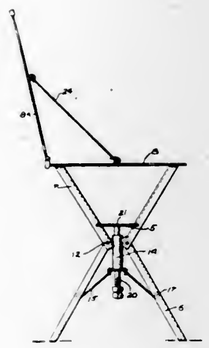
In an incandescent lamp the combination of an elongated bulb, a bracket located in said bulb, a reflector located within the bulb and secured to the inner end of said bracket, said reflector having a filament adjacent its center and the reflector surrounding the filament on all sides but one and being of substantially parabolic form.

1,344,430. ELECTROMAGNETIC ELEVATOR-DOOR LOCK. WILLIAM J. WIGMORE, Oakland, and OSCAR H. FIDDES, San Francisco, Calif. Filed Apr. 2, 1919. Serial No. 287,090. 15 Claims. (Cl. 187—61.)



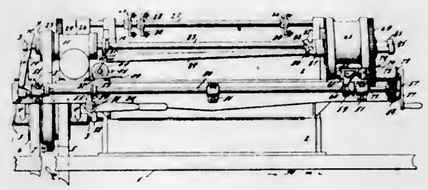
1. In a device of the above description, the combination of an electro-magnetic actuator carried by an elevator-car, an elevator hatchway-door lock the mechanism thereof being responsive to the energizing of said electro-magnetic actuator, a means of energizing said electro-magnetic actuator to a given magnetic density and then decreasing said magnetic density of same, and said electro-magnetic-actuator consisting of a plurality of magnetic poles of like and unlike polarity.

1,344,431. COLLAPSIBLE CHAIR AND THE LIKE. ADDIS E. ALBERTIE, Detroit, Mich. Filed June 18, 1919. Serial No. 305,131. 5 Claims. (Cl. 155—137.)



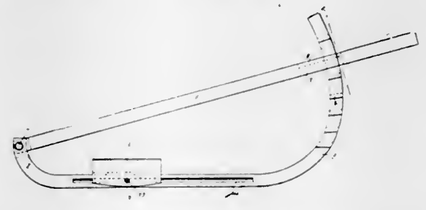
1. A collapsible chair or the like having a detachable seat portion and a supporting member therefor provided with legs of channel section, seat supporting arms of channel section pivoted to the legs and adapted to fit thereover when in folded position, a hollow post, means for pivoting the legs therein, locking rods connected to the legs and to said post, a bolt mounted in said hollow post, and a locking plate carried by said bolt and adapted to engage the seat supporting arms when the chair is in position for use.

1,344,432. WINDING-MACHINE. JAMES C. ANDERSON, Rutherford, N. J., assignor to Varley Duplex Magnet Company, a Corporation of New Jersey. Filed Apr. 9, 1919. Serial No. 288,822. 9 Claims. (Cl. 242—44.)



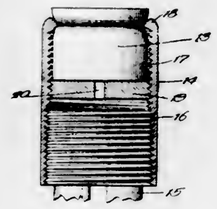
3. In a winding machine, the combination of a turret and two winding spindles carried thereby, said spindles being mounted side by side in a non-parallel relation with a driving clutch adapted to coöperate with either spindle.

1,344,433. HOSE-CLAMP. EMERY D. BLACKBURN, San Francisco, Calif. Filed Apr. 10, 1919. Serial No. 289,057. 4 Claims. (Cl. 251—5.)



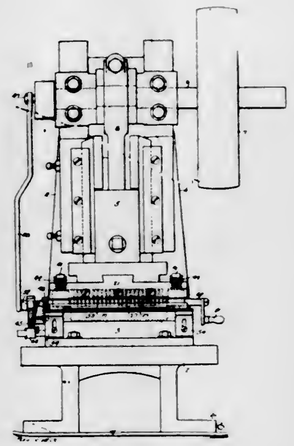
1. A clamp comprising a bar, one end of which extends transversely to the main portion of the bar and integrally therewith and has at a side thereof a series of ratchet teeth, a lever pivoted to the other end of the bar and extending beyond said transverse portion and having adjacent to said transverse portion a part adapted to engage any one of said ratchet teeth, and means on said bar between which and the lever a hose pipe can be clamped.

1,344,434. MECHANICAL PENCIL. ROBERT GEORGE CROMBIE BOA, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 17, 1918. Serial No. 212,351. 3 Claims. (Cl. 120—38.)



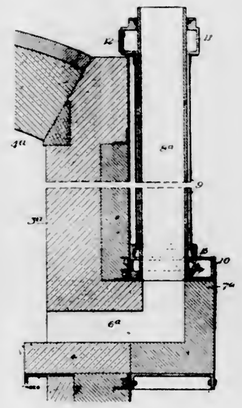
1. In an eraser support for a pencil, the combination of a sleeve having a large portion adapted to be fastened on the pencil and a smaller portion adapted to support an eraser, a disk supported in said smaller portion by a screw thread and means whereby said disk may be advanced.

1,344,435. PUNCHING-MACHINE. VICTOR R. BOTTONE, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1918. Serial No. 260,169. 14 Claims. (Cl. 164—90.)



1. The combination in a punching machine of an elongated series of punches; a die; and a pair of rolls for feeding sheet material between the die and punches, said rolls respectively having ribs substantially at right angles to each other.

1,344,436. HEATING-FURNACE. WILLIAM C. BUELL, Jr., Pittsburgh, Pa., assignor to Tate-Jones & Co., Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1918. Serial No. 223,793. 10 Claims. (Cl. 263—15.)



3. A heating furnace having its heating chamber provided with a waste gas outlet flue extending horizontally outward through the lower portion of its side wall and then upwardly, and a countercurrent recuperative device connected with upwardly extending portion of such flue, substantially as described.

1,344,437. HEATING-FURNACE. WILLIAM C. BUELL, Jr., Osborne borough, Pa., assignor to Tate-Jones & Co., Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1918. Serial No. 227,292. 11 Claims. (Cl. 263—15.)

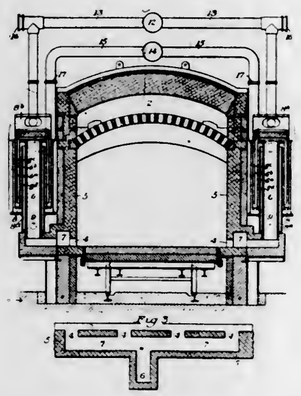
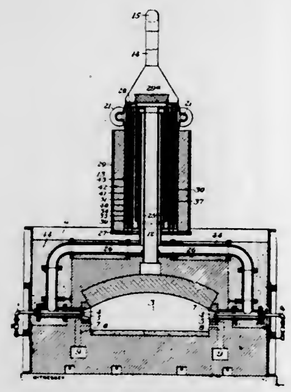


Fig 3.

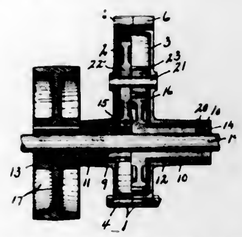
1. A heating furnace having an outlet flue leading outwardly through its side wall and thence upwardly at the exterior of said wall, and a multiple pass recuperator surrounding the exterior flue through which it discharges: substantially as described.

1,344,438. HEATING-FURNACE. WILLIAM C. BUELL, Jr., Osborne borough, Pa., and JOHN W. GRISWOLD, Toledo, Ohio, assignors to Henry L. Doherty and Company, New York, N. Y., a Copartnership composed of Henry L. Doherty and Frank W. Frueauff. Filed Apr. 23, 1918. Serial No. 230,325. 11 Claims. (Cl. 158—7.6.)



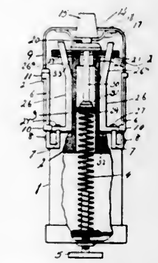
1. A heating furnace having a combustion chamber, a double-surface recuperator receiving the waste gases from said furnace on one side thereof and air for supporting combustion on the other side thereof, burners arranged to discharge into the combustion chamber, means for forcing air through the recuperator to said burners, mechanical exhausting means for withdrawing the waste gases from the combustion chamber through the recuperator, and means for adjusting the entering air pressure and the draft through the recuperator, substantially as described.

1,344,439. SHAFT-HANGER GEARING. CHARLES N. CADY, Canastota, N. Y. Filed Aug. 12, 1919. Serial No. 316,969. 4 Claims. (Cl. 74—7.)



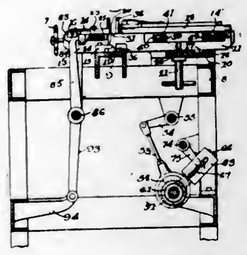
1. The combination with a casing having oppositely extending bosses, of a sleeve mounted in each boss, each sleeve having its end projecting within the casing and carrying a gear element, additional gearing for correlating said sleeve gears so that movement of one actuates the other at a different speed, a shaft extending through said sleeves and means for securing one of the sleeves to the shaft to effect simultaneous rotation of the parts.

1,344,440. CAMERA-TIMING ATTACHMENT. PERICLIS CHILIMIDOS, South Bethlehem, Pa. Filed Jan. 17, 1920. Serial No. 352,194. 5 Claims. (Cl. 161—26.)



1. In an automatic camera timing device having a spring actuated air regulated piston, means for attaching the device to the release mechanism of a camera, a hollow piston rod, a head carried by the piston rod, plates fitted to slide upon the head, cam rods passing through said plates for actuating the same in unison with the movements of the head, said plates serving to actuate the stem of the release mechanism in one direction and release said stem in order that it may be actuated in the reversed direction.

1,344,441. BOOK-STITCHING MACHINE. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Aug. 2, 1918. Serial No. 247,946. 6 Claims. (Cl. 1—7.)



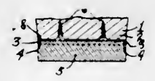
4. In a book stitching machine, the combination with a frame, of a plurality of staplers and clencher mechanisms carried thereby, a movable bar upon which said clencher mechanisms are mounted, a movable bar connected to the staplers, shafts having right and left handed threaded portions in respective engagement with said bars, means for rotating said shafts for simultaneous movement of said bars toward or away from each other, and a trough having its sides adjusted toward and from each other by moving the stapler and clencher bars toward or away from each other to accommodate books of different thicknesses.

1,344,442. SPUTUM-BOX. HARRY HUNTER COLESTOCK, St. Paul, Minn. Filed May 5, 1919. Serial No. 294,674. 4 Claims. (Cl. 4—39.)



1. A water-proof sputum box having a hinged lid and projecting cover, the said lid having a chute with springable side flanges extending into the opening of said box, the said flanges having an extension beyond the center of the hinge action of the lid, all substantially as described.

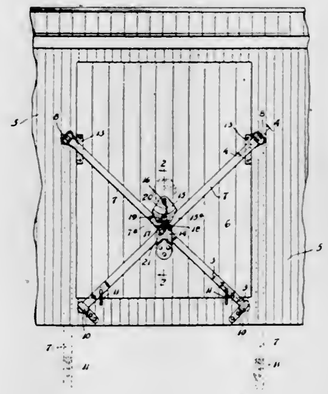
1,344,443. ATTACHING MEANS FOR RUBBER HEELS. JOHN W. DENMEAD, Akron, Ohio. Filed Aug. 6, 1919. Serial No. 315,584. 1 Claim. (Cl. 36—36.)



Attaching means for rubber heels including a metallic plate having a depending wall extending substantially at right angles therefrom, an inwardly projecting flange carried by the lower end of said wall forming a channel between the flange and plate, and a rubber heel substantially coextensive with the diameter of said plate and having the upper and lower edges of its periphery in the same vertical plane, said heel adapted to be retained between the depending wall of said plate with the inwardly directed flange compressing the rubber at the point of engagement, the portion of the rubber heel above said flange expanding into the channel between the flange and plate.

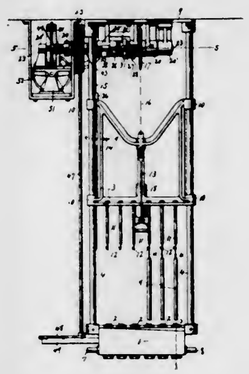
1,344,444. CAR-DOOR LOCK. JOHN EDMAN, Minneapolis, Minn., assignor to Edman Car Door Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 4, 1919. Serial No. 321,623. 6 Claims. (Cl. 292—259.)

3. The combination with a car body having a laterally movable car door, of clamping and locking means comprising a pair of levers pivoted to the car body adjacent to the sides of the door, said levers being adapted to be brought together at the intermediate portion of the door, and a pair of lock brackets on said door, one fixed and the other pivoted in respect thereto, the said brackets co-operating to lock said levers to said door, and a lock pin



insertible through perforations in the said two lock brackets, said pin having a perforated end for application of a seal to hold the same in locking position.

1,344,445. HOISTING APPARATUS FOR CANDLE-FINISHING MACHINES. EVALD J. ENGMAN, Syracuse, N. Y., assignor to the Will & Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 19, 1917. Serial No. 207,900. 7 Claims. (Cl. 18—12.)



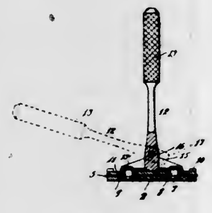
1. In a candle finishing machine the combination of a vertically reciprocatory candle carrier adapted to be moved downwardly at will, mechanical retracting means including a rotary element for raising the carriage, a separately rotatable element, means including a clutch for transmitting motion from the first named element to the second named element, an additional rotary element, means including a clutch for transmitting motion from the second named element to the additional element and means for driving said additional element at a constant relatively slow speed for preventing excessive speed of movement of the carriage raising means.

1,344,446. CANDLE-HOLDER. EVALD J. ENGMAN, Syracuse, N. Y., assignor to The Will & Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 26, 1917. Serial No. 208,841. 2 Claims. (Cl. 67—23.)



1. In a candle support, a sheet metal plate having integral tongues, the bases of which are bent radially toward the center and flatwise against the upper face of the plate to form a raised seat for supporting the bottom of the candle above the main body of the plate, and their ends extended upwardly to form a bifurcated stem for entering the candle and holding the wick.

1,344,447. SAFETY-RAZOR. CARL F. HAMMON, Hartford, Conn. Filed Jan. 20, 1920. Serial No. 352,681. 6 Claims. (Cl. 30—12.)



5. A safety razor comprising a blade-supporting member having projecting means, a blade-clamping member through which the projecting means extends, a handle, and a handle-supporting member to which the handle is jointed, the handle-supporting member also receiving said projecting means, and the handle having means to act against the clamping member to cause the same to clamp a blade against the blade-supporting member and at the same time to force the handle-supporting member solidly against said projecting means.

1,344,448. ROLLER-SHADE. JAMES JOHNSTONE, New York, N. Y. Filed Nov. 25, 1919. Serial No. 340,561. 12 Claims. (Cl. 156—17.)

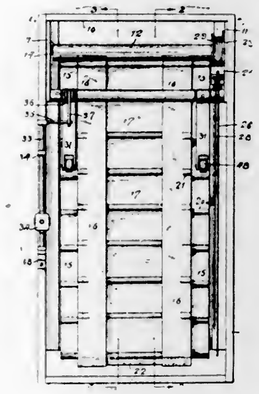
1. The combination with a roller, of a shade attached thereto and rollable thereon, said shade comprising a group of interconnected slats, together with means engaging the marginal area of the shade to open the slats when the shade is lowered.

2. The combination with a roller, of a shade attached thereto and rollable thereon, said shade comprising a group of interconnected slats, together with a spacer engaged between the front and back margins of the slats when the shade is lowered.

3. The combination with a roller, of a shade attached thereto and rollable thereon, said shade comprising a group of interconnected slats, together with a device engaging the shade to open the slats as the shade is lowered.

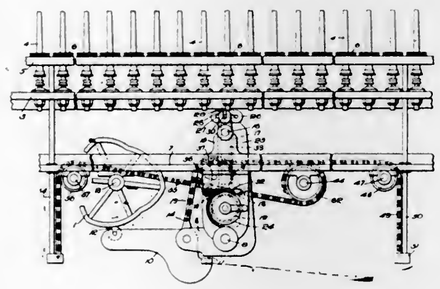
4. The combination with a roller, of a shade attached thereto and rollable thereon, said shade comprising a group of interconnected slats, together with a spreading device to open the slats during the lowering of the shade, and a spacer engaging the margins of the slats to hold the same in opened position.

5. In a shade, a series of slats, vertical binding strips respectively connected to the front and back edges of



the slats, and means engaging certain of said binder strips to effect the opening of the slats.

1,344,449. WINDING MECHANISM. CHARLES D. LANNING, Boston, Mass. Filed May 26, 1915. Serial No. 30,500. 16 Claims. (Cl. 242—43.6.)



8. In a traverse motion for winding yarn on yarn receivers, a rotatory yarn receiver, yarn guiding means adapted to move in substantial parallelism to the axis of said receiver, a builder element, a builder lever adapted to be oscillated by said builder element, a flexible element connected to said builder lever, means upon the builder lever and movable therealong, to vary the operative length of said flexible element, a disk to which said flexible element is attached and positive and essentially unvarying connecting means between said disk and said yarn guiding means, thereby to transmit positively and essentially unvaryingly to the yarn guiding means the movement of said disk, and including means whereby the point at which the flexible element leaves the said disk remains substantially fixed in position during the building movement.

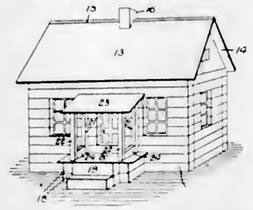
1,344,450. FOLDING BED. GEORGE R. MCALLASTER, Rochester, N. Y. Filed Dec. 28, 1918. Serial No. 268,741. 11 Claims. (Cl. 5—22.)

1. In combination with a bed frame, and a mattress supported thereon, projecting means secured to the frame and engaging the under side of the mattress, and means extending across the upper side of the mattress from one



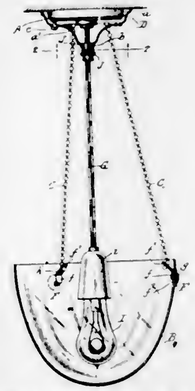
side of the bed frame to the other and to one side of the projecting means to secure the mattress to the bed frame.

1,344,451. TOY. MAURICE LOUIS JOSEPH RICHARD, Quebec, Quebec, Canada. Filed Apr. 28, 1919. Serial No. 293,163. 2 Claims. (Cl. 46—35.)



1. A child's building block outfit for constructing toy houses consisting of three distinct sets of rectangular blocks, the blocks of each set differing noticeably in length from the blocks of the other two sets said three sets of blocks being principally designed for building the walls of a house and comprising the main pieces of the outfit; and a set of supplemental pieces for constructing details of the house other than the walls, the supplemental pieces having plain rectilinear faces, the different pieces thereof being noticeably different in size and shape from one another and from the main blocks.

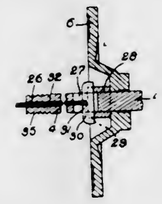
1,344,452. ELECTROLIER. LOUIS ROTH, New York, N. Y., assignor to Sterling Bronze Company, New York, N. Y., a Corporation of New York. Filed June 27, 1919. Serial No. 307,074. 6 Claims. (Cl. 240—78.)



1. An electrolier embodying a ceiling canopy positioned for substantially incasing a ceiling junction box, said can-

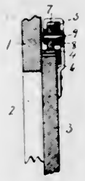
opy being provided with a plurality of key-hole slots, a globe, and a plurality of flexible suspenders attached to said globe, said flexible suspenders being adjustably and detachably connected with the slotted portion of said ceiling canopy.

1,344,453. FLOUR-MILL. JOSEPH HERVE ROUSSEAU and ALEXIS COTÉ, Trois Pistoles, Quebec, Canada. Filed Dec. 4, 1918, Serial No. 265,293. Renewed Apr. 24, 1920. Serial No. 376,425. 1 Claim. (Cl. 83—8.)



In a grinding mill, the combination of a casing; a shaft journaled therein and formed with a transverse slot which extends transversely through it and is located adjacent the movable grinding plate, and with a longitudinal bore opening at its inner end into said slot and at its outer end through the corresponding end of the shaft, said shaft end being externally threaded; an endwise movable pin slidably fitting in said bore and projecting at opposite ends through the bore ends; a guide member extending endwise through said slot between the inner end of the pin and the movable grinding plate and slidable laterally along the slot so as to transmit the endwise movements of said pin to said plate to shift the latter toward or from the fixed grinding plate; and an adjusting nut for operating said pin fitted on the threaded end of the shaft and engaged with the projecting outer end of the pin.

1,344,454. CAR-DOOR HANGER. PETER SCHNEIDER, Oswego, N. Y. Filed Jan. 22, 1917. Serial No. 143,693. 1 Claim. (Cl. 16—90.)

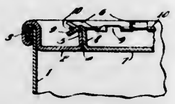


In combination with a car having an opening and a sliding door for the opening, parallel lengthwise rails secured to the car one above the other above the opening, hangers secured to the car, separate pairs of coaxial rollers journaled on their respective hangers, those of each pair being of unequal diameter and coaxial, the larger rollers being engaged with the upper face of the lower rail and with the inner face of the upper rail to assist in holding the door against outward displacement, the smaller roller being engaged with the lower face of the upper rail at the outside of the larger roller.

1,344,455. METAL CONTAINER. ANTHONY SCHROEDER, Cleveland, Ohio. Filed Oct. 30, 1919. Serial No. 334,553. 5 Claims. (Cl. 220—55.)

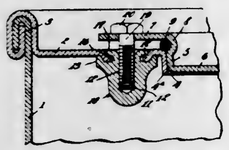
1. The combination with a metal barrel having an opening in the top thereof surrounded by a flange, said flange terminating in a series of spaced out turned projections, a cover having a flange provided with a series of down

turned projections fitting between the said projections, said cover adapted to engage and fit within the flange



around the opening and fastening means engaging between the projections on the top flange and those on the cover flange, to hold the cover in place.

1,344,456. METALLIC CONTAINER. ANTHONY SCHROEDER, Cleveland, Ohio. Filed Oct. 30, 1919. Serial No. 334,554. 4 Claims. (Cl. 220—55.)



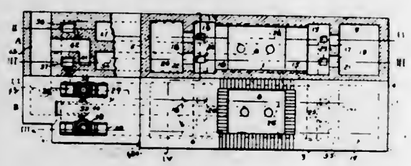
1. The combination of a metal barrel head having an opening therein, a cover adapted to fit into said opening, and fastening means to hold the cover tightly in place comprising a nut closed at its inner end and permanently sealed to the inside of the head, and a screw extending through an opening in the cover and threaded into said nut, said screw adapted to tightly hold the cover in place.

1,344,457. BUNG FOR METAL BARRELS AND THE LIKE. ANTHONY SCHROEDER, Cleveland, Ohio. Filed Oct. 30, 1919. Serial No. 334,555. 3 Claims. (Cl. 220—39.)



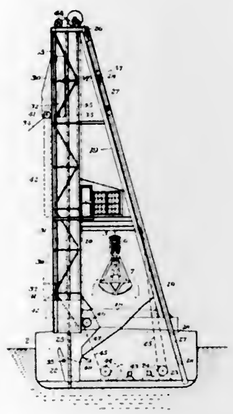
1. A bung for metal barrels, comprising a head having a reduced extension, and a tapered shoulder connecting said extension with said head, in combination with a metal barrel having an opening therein, and a tapered seat around said opening and an extension outwardly beyond said seat, the shoulder of the bung fitting against the seat around the opening and the extension being bent inwardly over the head of the bung to hold the same in place.

1,344,458. FURNACE. HORACE E. SMYTHE, Pittsburgh, Pa., assignor to The S. R. Smythe Company, Pittsburgh, Pa., a Corporation of West Virginia. Filed Jan. 19, 1920. Serial No. 352,509. 2 Claims. (Cl. 263—15.)



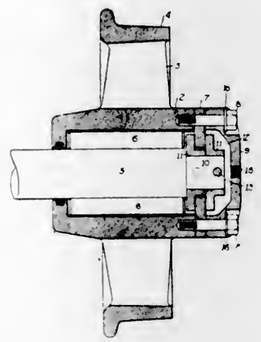
1. In a furnace structure, a furnace chamber, means for reversing the flow of air and gas to the said chamber, a stack flue, and means preventing the waste gases from flowing through the gas reversing means and through the gas passages between the chamber and the gas reversing means.

1,344,459. COALING-BARGE. FREDERICK A. SWEET, Salt Lake City, Utah, and GEORGE G. JAMIESON, Oakland, Calif. Filed Nov. 1, 1919. Serial No. 334,988. 8 Claims. (Cl. 214—15.)



1. A coaling barge provided with a longitudinally extending bridge having a track thereon, a trolley mounted for longitudinal movement on said track, a grab bucket carried by said trolley, a tower located at an intermediate portion of the bridge, a skip or hoist bucket mounted for vertical travel in said tower, means for delivering the material from the grab bucket to the skip or hoisting bucket, and means for dumping the skip or hoisting bucket when elevated, substantially as described.

1,344,460. CAR-WHEEL. FREDERICK A. SWEET, Salt Lake City, Utah. Filed Mar. 11, 1920. Serial No. 364,917. 4 Claims. (Cl. 295—47.)

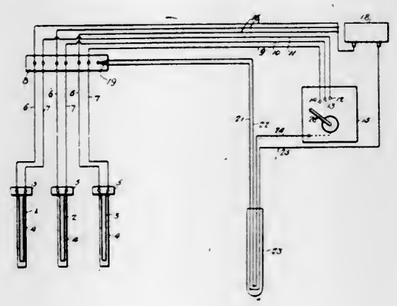


1. In a mine car wheel, the combination with an axle having a pair of thrust collars thereon, of a hub having a thrust ring secured thereto and extending inwardly between the thrust collars, the two thrust collars being of similar construction and interchangeable one with the other, substantially as described.

1,344,461. REFRACTORY PRODUCT AND METHOD OF MAKING THE SAME. CHARLES W. THOMAS, Wayne, Pa. Filed Aug. 7, 1918. Serial No. 248,784. 4 Claims. (Cl. 106—9.)

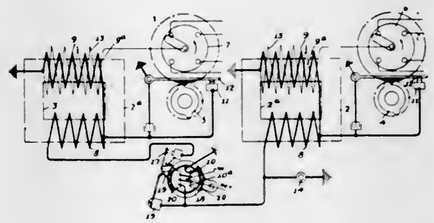
1. The process which consists in mixing unburnt raw quartzite with Portland cement, a hardener, and water; molding the mixed materials; permitting the molded structure to set; and thereafter exposing the structure to a temperature sufficient to calcine the cement and sinter the refractory material.

1,344,462. COMPENSATING DEVICE FOR THERMO-COUPLES. CHARLES B. THWING, Philadelphia, Pa., assignor to Thwing Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 30, 1918. Serial No. 264,873. 5 Claims. (Cl. 73—32.)



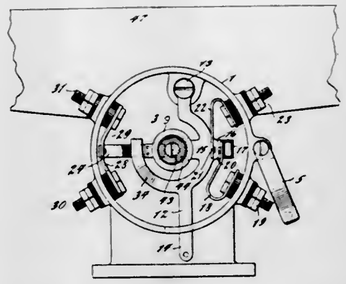
4. The combination of a plurality of thermo-couples; extensions for each of said thermo-couples; a junction box entered by said extensions; an indicating instrument connected to certain of said extensions; a cold well relatively distant from the thermo-couples; an auxiliary thermo-couple having its hot end in the common junction box and its cold end in the cold well; and means including a switch for connecting the auxiliary thermo-couple in series with the indicator and any of the other thermo-couples at will.

1,344,463. ELECTRICAL SYSTEM. RICHARD VARLEY, Englewood, N. J. Filed Apr. 26, 1919. Serial No. 292,915. 5 Claims. (Cl. 123—148.)



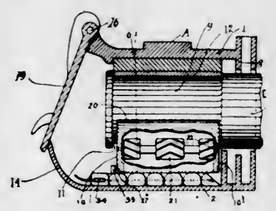
1. Means for exploding the charges in an internal combustion engine comprising two transformer generator elements each of which has a separate set of spark plugs, movable means for obtaining spark advance and retard, and a switch device associated with said movable means and adapted to render one of the said elements ineffective at spark retard.

1,344,464. CIRCUIT-CONTROLLER FOR EXPLOSIVE-ENGINES. RICHARD VARLEY, Englewood, N. J., assignor to Varley Duplex Magnet Company, a Corporation of New Jersey. Filed Dec. 19, 1919. Serial No. 346,047. 3 Claims. (Cl. 123—146.5.)



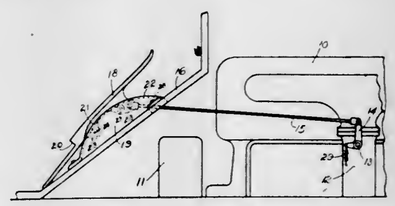
1. The combination of a gas engine having an intake pipe, an electric switch, manually controlled means and means responsive to the vacuum in the intake pipe, one of said means being operative initially close the switch and the other to maintain it closed.

1,344,465. OILING DEVICE FOR JOURNAL-BOXES. FRANK R. WEBER and CHRISTOPHER J. M. WEBER, St. Paul, Minn. Filed Apr. 2, 1919. Serial No. 286,887. 2 Claims. (Cl. 64—33.)



1. In combination with an open front journal box and a journal therein, an oiling device including means rendered effective responsive to the movement of said journal when in contact therewith, a supporting device adapted to be inserted through said open front and under said oiling device to raise the latter to cause it to contact with said journal, said supporting device comprising a plurality of contiguously disposed slats flexibly joined together the forward slat hereof being chambered to form a wedge.

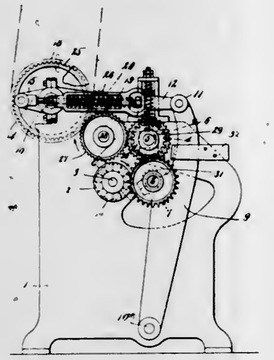
1,344,466. ACCELERATOR-PEDAL FOR AUTOMOBILES. IRVING E. WHITNEY, West Norwalk, Conn. Filed Sept. 23, 1919. Serial No. 325,636. 4 Claims. (Cl. 74—81.)



1. A device of the character described comprising an arc plate having a longitudinal slot on the opposite sides of

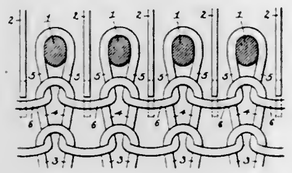
which are flanges, the outer faces of the flanges comprising arc shaped bearing surfaces, and a pedal having corresponding arc shaped bearing surfaces and having between said surfaces a rib adapted to travel in the slot of the arc plate.

1,344,467. LEATHER-WORKING MACHINE. ROBERT F. WHITNEY, Winchester, Mass., assignor to Whitney Machine Company, Winchester, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1919. Serial No. 291,242. 6 Claims. (Cl. 149—16.)



1. In a hide and leather working machine of the character described, a bed roll directly journaled in vertically disposed oscillating arms intermediate their ends.

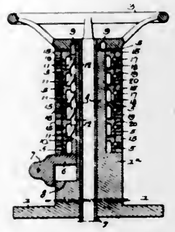
1,344,468. FACILITATING THE MECHANICAL TRANSFER OF STITCHES FROM NEEDLES OF KNITTING-MACHINES. LOUIS N. D. WILLIAMS, Ogontz, Pa. Filed Feb. 6, 1917. Serial No. 146,887. 1 Claim. (Cl. 66—4.)



The mode herein described of preparing the stitches of the terminal course of a knitted web for the entrance of transfer points, said mode consisting in imparting abnormal tension to the intervening sinker wales, after said terminal course of stitches has been drawn by the needles but before it has been discharged therefrom.

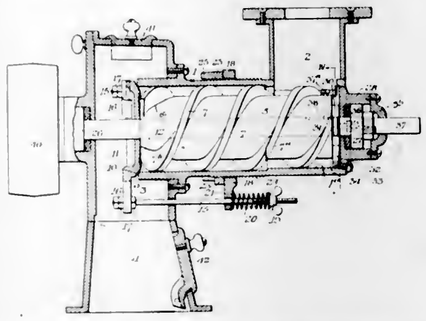
1,344,469. LOCK. CHARLES WOLF, Philadelphia, Pa. Filed Oct. 14, 1916. Serial No. 125,615. 5 Claims. (Cl. 70—53.)

1. A combination lock consisting of a relatively fixed structure; a rotatable member to be locked extending through said structure; a bolt longitudinally movable in the fixed structure to one side of the axis of rotation of said member and positioned to extend into and lock the same; a series of outwardly projecting pawls carried in a slot of said bolt; with a series of flanged rings mounted with their flanges in positions to normally prevent longitudinal movement of the pawls with the bolt, said flanges



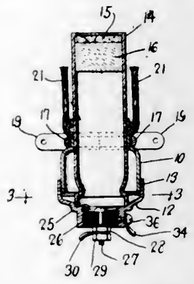
having openings respectively in positions to permit passage of the pawls and movement of the bolt when the rings occupy predetermined positions.

1,344,470. MIDDLINGS-MILL. AUGUSTUS WOLF, Chambersburg, Pa. Filed July 1, 1919. Serial No. 307,970. 11 Claims. (Cl. 83—8.)



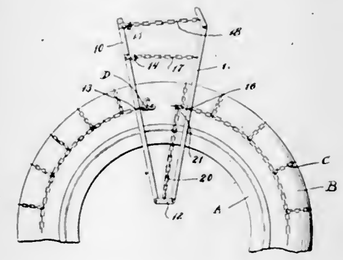
1. The combination of a casing, a screw operating therein, means for driving the screw, and a movable plate forming a closure for one end of the casing; said plate having a smooth wall with which the end of the cylinder engages and between which parts material within the cylinder may be extruded upon turning the screw and a toothed or serrated surface against which the material may be crushed by the end of the screw.

1,344,471. AUTOMATIC FIRE-ALARM. SIGURD OLAF ABRAHAMSEN, Virginia, Minn. Filed Aug. 30, 1918. Serial No. 252,099. 1 Claim. (Cl. 200—142.)



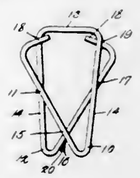
In a device of the class described, a two-part casing comprising an upper section and a lower section, said sections being detachably connected; an insulated terminal member carried by the lower section; a conductor in electrical connection with the lower section; a tubular member carried by the upper section; a metallic substance within the tubular member; a fusible substance for retaining the metallic substance out of contact with the terminal member and the lower section; a bracket for supporting the casing, including a clamping member; and an inflammable object retained in position by the clamping member.

1,344,472. SKID-CHAIN TIGHTENER. CHARLES C. ALLEN, Raymilton, Pa. Filed Oct. 4, 1919. Serial No. 328,382. 1 Claim. (Cl. 254—78.)



A device of the character described comprising a pair of pivoted levers movable toward and away from each other, a hook on each lever intermediate the ends thereof and engageable within selected links adjacent the ends of a skid chain, a hook at the end portion of one lever, a chain carried by the end portion of the other lever and having its links selectively engageable upon said second named hook, and a chain connected with said levers adjacent their pivot points and terminating in a hook engageable within a selected link adjacent one end of the skid chain whereby to hold the skid chain against movement away from the center of the wheel or tire to which it is applied.

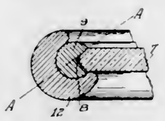
1,344,473. PAPER-CLIP. HARRY BALDWIN, Seymour, Conn. Filed Oct. 29, 1919. Serial No. 334,107. 1 Claim. (Cl. 24—261.)



A paper clip comprising a single section of resilient wire bent to provide a pair of opposed substantially V-shaped resiliently contacting gripping jaws, said jaws having a connecting portion at one end and having side portions extending therefrom at acute angles in converging relation toward each other and rebent to extend diagonally across each other and the first named sides to provide three gripping points therebetween and an entrance portion beyond the point of crossing of said diagonally extended sides, the free ends of said diagonally extended sides being curved inwardly at acute angles substantially at right angles to cross said first mentioned sides to provide two additional bearing points.

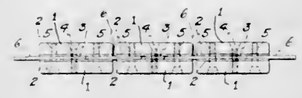
1,344,474. OPHTHALMIC-LENS FRAME. EARLE J. R. BEATTEY, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation. Filed Sept. 16, 1919. Serial No. 324,095. 2 Claims. (Cl. 88—47.)

2. An ophthalmic lens frame comprising an inner rim formed with a lens receiving groove and a continuous outer non-metallic rim having a groove, the forward wall of which has its inner face curved to conform to and covers the front face of the metallic rim, said front wall



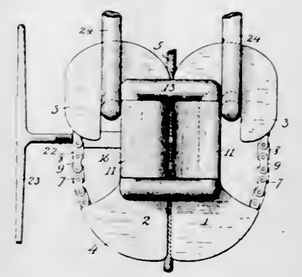
projecting nearer to the center of the rim than the rear wall so that the rear face of the metallic rim is partially exposed.

1,344,475. POWER-TRANSMITTING BELT. ALBERT J. BEICH, Camden, N. J. Filed Sept. 4, 1919. Serial No. 321,540. 1 Claim. (Cl. 74—64.)



The combination in a power transmission belt of unit link structures each consisting of a pair of elongated metal link plates; a metal spacing plate between the middle portions of said link plates; friction elements respectively mounted on the outer faces of the link plates and each projecting beyond one side of its associated plate; said link plates, spacing plate, and friction elements having screw threaded openings therein; a screw passing through and having threads coacting with the threads of the said openings to rigidly connect the parts; metal link elements extending between the pairs of link plates of adjacent belt units; with pivot members each passing loosely through all of the elements except one of the friction elements and threaded into said element for movably connecting the link elements and the belt units in a belt.

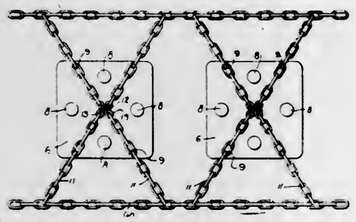
1,344,476. WIRE-LINE DRILLING-CLAMP. GEORGE FRANCIS BELL, Tulsa, Okla. Filed Mar. 29, 1919. Serial No. 286,031. 12 Claims. (Cl. 24—135.)



9. A wire line drilling clamp, comprising a pair of clamp blocks, having adjacent opposed edge portions between which the wire line is passed and said blocks each being laterally expanded at the ends with one of the expanded ends formed into a hook for receiving sustaining means, and each clamp block having a marginal groove or channel, means for connecting the blocks and adjusting the spacing of the blocks with respect to each other and an endless chain for each block seated in and movable along the marginal grooves thereof, the adjacent edges of the blocks where passing the wire line being substantially parallel, and the chains, including links, formed with grooves to seat the wire line, said links being also

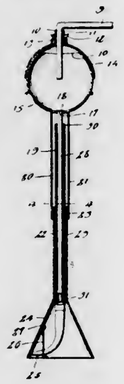
grooved on the opposite edges from those engaging the wire line to engage the bottoms of the grooves in the adjacent edges of the blocks, whereby to provide more extended engaging surface for the wire line than for the clamp blocks.

1,344,477. ANTISKID-CHAIN. EDWARD BENJESTORF, Fenwood, Saskatchewan, Canada. Filed July 8, 1919. Serial No. 309,464. 4 Claims. (Cl. 152—14.)



1. A device of the character described comprising a pair of side chains, a plurality of tread plates provided on their tread surface with integral projections, and chains carried by said side chains and being connected together centrally of said plates, said chains lying between the integral projections of said tread plates.

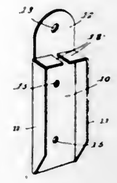
1,344,478. GASOLENE-DISPENSING DEVICE. JOSIAH BLACK, Lansing, Mich.; Spencer D. Kelly administrator of said Josiah Black, deceased. Filed Jan. 23, 1918. Serial No. 213,400. 2 Claims. (Cl. 221—84.)



1. In an apparatus of the character set forth, in combination, a supply pipe having an enlargement provided with a tubular casing projecting therefrom and having a funnel-shaped end, an adjustable discharge pipe connected with and communicating with said enlargement and passing through said casing, and means in the casing for engagement with the discharge pipe for holding the latter in retracted position.

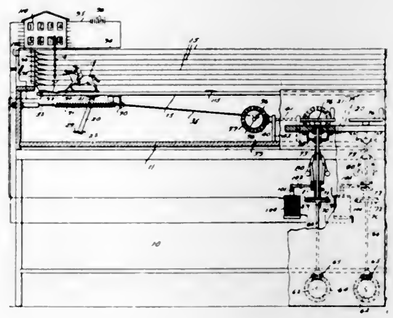
1,344,479. HINGE. JOSEPH B. BRADLEY, Miami, Fla. Filed Jan. 16, 1920. Serial No. 351,765. 1 Claim. (Cl. 16—49.)

As a new article of manufacture, a one-piece screen hinge comprising a flat body portion, parallel flanges projecting at right angles from the longitudinal edges of the body portion to straddle one side edge of a screen, and arms extending inwardly from the inner ends of said flanges and forming continuations thereof and resting at right angles to the body and the flanges to bear on the upper edge of a screen; the body being apertured at points



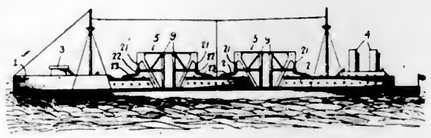
between the flanges, and being extended beyond the arm-bearing ends of the flanges and provided in its extended portion with an aperture.

1,344,480. RACE-GAME APPARATUS. RICHARD M. BRENNER, Palisade, N. J. Filed Dec. 10, 1919. Serial No. 343,758. 13 Claims. (Cl. 46—56.)



1. In an amusement apparatus, a plurality of racing tables adapted to move unobstructedly forward and backward, racing objects, one for each table and placed on the rear ends of the racing tables to travel intermittently forward on imparting motion to the said tables, and actuating means controlled by the players and having mechanical connections with the said racing tables to move the latter forward and backward independent one of the other, the said actuating means having disconnecting members adapted to render the connections inoperative on actuating the said actuating means at an excessive speed.

1,344,481. COALING DEVICE. STEWART HAROLD BUCHANAN, Beaumont, Tex. Filed Sept. 22, 1919. Serial No. 325,437. 3 Claims. (Cl. 214—15.)



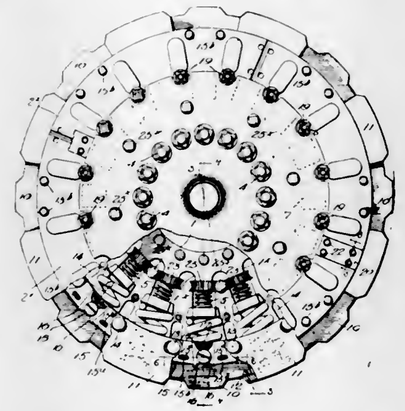
1. A coal collier comprising a rotatable turret, a coal bunker carried thereby and means carried by the turret for conveying the coal from the bunker to the ship to be coaled.

1,344,482. DRAFT-COUPLING. JACOB WIENS BULLER, Hillsboro, Kans., assignor to Buller Coupler Company, Inc., Hillsboro, Kans., a Corporation of Wisconsin. Filed Nov. 5, 1918. Serial No. 261,264. 2 Claims. (Cl. 213—67.)



1. A draft coupler comprising a plurality of separably connected members adapted for engaging a power member and a load member, respectively; a trigger operatively uniting said members when disposed in parallel arrangement; a swinging member pivotally connected with one of said members and with said trigger for supporting the latter; and yielding means for depressing the free end of said swinging member for holding said trigger in operative relation to said separable members, said yielding means embodying springs and guide bolts therefor, said bolts being movably attached to both of said separable members.

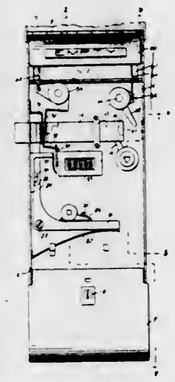
1,344,483. SPRING-WHEEL. WILLIAM ADOLPH BURGER and WILLIAM GROSS, San Francisco, Calif. Filed Dec. 27, 1917. Serial No. 209,119. 5 Claims. (Cl. 152—30.)



2. An all metal spring wheel comprising a pair of opposed face plates having guide recesses therein, a plurality of tread sections, alternate tread sections overlapping the ends of intermediate tread sections, retaining members for said tread sections, said retaining members passing through portions of the overlapped sections, the ends of the retaining members being disposed in certain of said guide recesses, an annular base plate secured to said face plates and spring means disposed between said base plate and each of said tread members, a radially slidable plate for each of said spring means having its ends disposed in certain of said guide recesses in the face plates, and means operated at the outer side of one of said face plates for moving said slidable plate to exert more or less tension on said spring means.

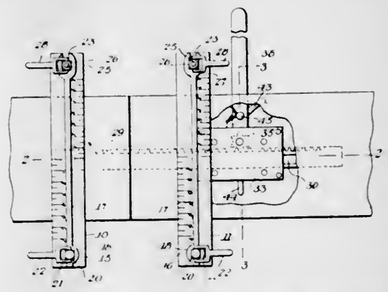
3. In an all metal wheel, an annular base ring, a pair of opposed face plates secured to said base ring, a plurality of U-shaped tread sections, alternate tread sections overlapping the ends of the intermediate tread sections, said alternate sections being provided with bearings and said intermediate sections being provided at their ends with slots arranged to register with the bearings of the alternate sections, rollers disposed in the slots against the bearings, means for pivotally connecting said sections together, radially extending spiral springs disposed between each tread section and said annular base ring, and means for varying the tension of said springs.

1,344,484. LOCK. LEE EDWIN CANTRELL, Nashville, Tenn. Filed Aug. 26, 1919. Serial No. 319,969. 4 Claims. (Cl. 194—74.)



1. A pay-as-you-enter lock mechanism, comprising in combination; a casing, a bolt slidably retained therein, said bolt provided with a longitudinal slot and a slot cut transversely of the longitudinal slot, a coin guide plate fixed to the casing, another coin guide plate having an out-turned trip finger, a bell crank made on the upper end of the second-named coin guide plate and pivoted to the casing, a legend plate, a link connecting the legend plate with the bell crank, a register, and an arm made on the register to engage the trip finger.

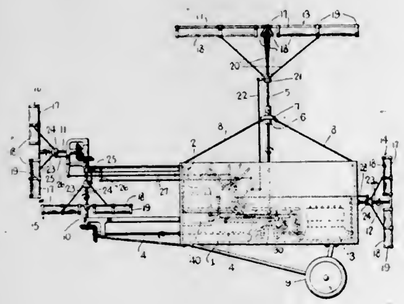
1,344,485. BELT-STRETCHER. WARREN L. CHERRY, Wolfe City, Tex. Filed Aug. 14, 1918. Serial No. 249,870. 1 Claim. (Cl. 254—32.)



A belt stretcher including clamps, each comprising a pair of superimposed plates having their confronting faces roughened and their outer faces centrally formed with longitudinal ribs having bosses on the ends thereof, each pair of plates at one of the ends thereof having slots which enter the bosses thereof, bolts pivoted in the slotted bosses of the lower plates, nuts having levers swiveled thereon engaging the bolts, said plates having openings passing through the bosses thereof at their opposite ends, and the openings in the lower plates being threaded, bolts having swiveled levers on the heads thereof received in the openings and engaging the threads of the openings in the lower plates, a rack bar secured to the rib of one of the lower clamping plates and passing through an opening in the rib of the second lower clamping plate, a housing

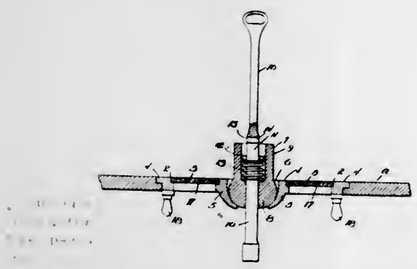
secured on the rib of the last mentioned plate and receiving therethrough the said rack bar, means in said housing co-engaging with the rack bar for moving the same longitudinally to adjust the clamps with respect to each other, and operating means for said actuating means disposed exteriorly of the housing.

1,344,486. AIRSHIP. GEORGE F. COFFELT, Corbin, Kans. Filed May 12, 1919. Serial No. 296,437. 1 Claim. (Cl. 244—19.)



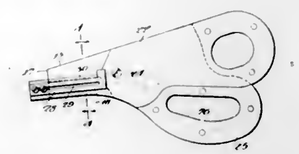
An airship comprising a body or main frame, a horizontally disposed lifting propeller arranged above said body, a pull propeller disposed in front of the body, a horizontally disposed balancing propeller located in the rear of the body, an upright guiding propeller arranged above the balancing propeller and in rear of the body; each of said propellers including arms and hinged blades on said arms, a motor carried by the body, driving connections intermediate said motor and the several propellers, and independently adjustable means complementary to each propeller and connected with the blades thereof for enabling an operator in the body to adjust the blades of each propeller independently of the blades of the other propellers.

1,344,487. SWITCH-OPERATING DEVICE FOR STREET-RAILROAD CARS. CAMPBELL W. COLLENS, New Orleans, La. Filed Apr. 10, 1920. Serial No. 373,082. 1 Claim. (Cl. 246—370.)



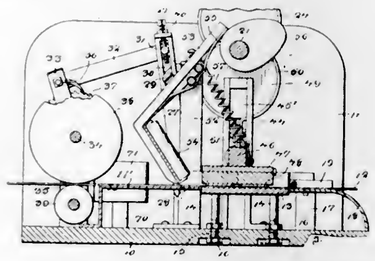
A switch operating mechanism of the class described comprising a plate provided with a socket, the said socket being substantially semi-spherical in form and open at its upper and lower sides, a tumbler having a substantially globular portion mounted in the socket of the plate so that the tumbler may be moved angularly in one direction, a switch iron carried by and extending through the tumbler and movable vertically therein, and a spring carried by the tumbler and acting to normally raise the switch iron.

1,344,488. PUNCHING-SHEARS. ELMER E. CORNELL, St. Louis, Mo. Filed May 10, 1919. Serial No. 296,225. 4 Claims. (Cl. 164—4.)



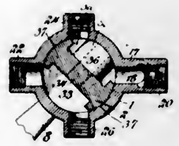
1. A slotting punch having a pair of movable jaws one of which is formed with side and end cutting edges, the other jaw comprising spaced side plates forming cutting edges receiving the first jaw, crossed shanks, one consisting of a single plate at one end of which the first jaw is integral, and the other shank consisting of spaced plates between which the first shank extends and at one end of which the side plates of the second jaw are integral, said shank plates having handle openings in their opposite ends, handle pieces secured to opposite sides of said opposite end of said first mentioned shank plate and a handle piece secured between the spaced plates at said opposite end of the second shank, said handle pieces being apertured in registry with said handle openings in said plates, and a working pivot extending through the shank plates intermediate their ends.

1,344,489. PRINTING-MACHINE. HORACE L. DODGE, Buffalo, N. Y. Filed Sept. 14, 1918. Serial No. 254,043. 4 Claims. (Cl. 101—292.)



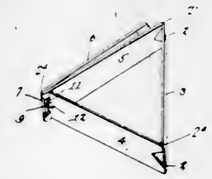
1. The combination with a printing machine provided with a vertically movable bed, of an inking element mounted for pivotal movement and adapted to contact with the type in the bed, cam operated means for moving the inking element in contact with the type when the bed is in raised position and a spring having one end secured to the inking element and its opposite end movable with the bed to tension the spring and hold the inking element in contact with the cam.

1,344,490. SIX-WAY VALVE. ROBERT M. DOWNIE, Beaver Falls, Pa., assignor to Keystone Driller Company, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1919. Serial No. 275,571. 8 Claims. (Cl. 251—105.)



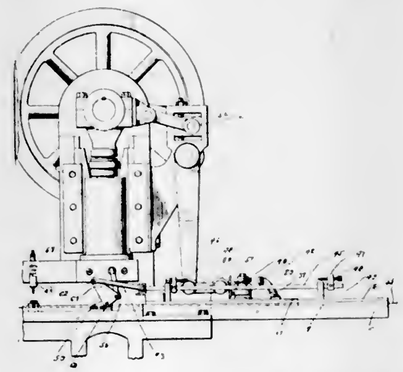
4. A multi-way valve comprising a casing with oppositely located pairs of ports and other oppositely located single ports, and a valve plug for the casing having oppositely located cavities of an extent lengthwise and circumferentially of the valve plug to each connect a pair of ports and a single port and having blank spaces between the cavities to cover or close the pairs of ports, one of the cavities having an enlargement therein with a port therethrough communicating with the other cavity and situated to communicate with a port of one of the pairs of ports.

1,344,491. CAR-SEAL. WILLIAM KERR EDGAR, Lawrence, Kans., assignor to The Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Filed Apr. 15, 1918. Serial No. 228,655. 4 Claims. (Cl. 292—315.)



1. A car seal formed of a strip bendable at a prearranged point, said strip being of a composition adapted to crack the outer strata of the strip along the outer surface of an angle therein during the first bend of the strip while producing said angle.

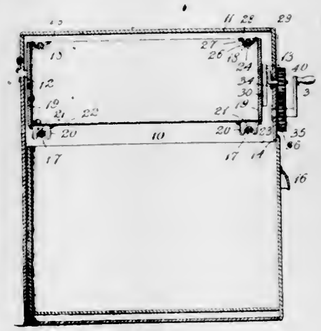
1,344,492. AUTOMATIC FEED DEVICE. WILLIAM KERR EDGAR, Lawrence, Kans., assignor to The Edgar Steel Seal and Mfg. Co., Lawrence, Kans. Filed Aug. 29, 1919. Serial No. 320,598. 7 Claims. (Cl. 164—88.)



1. In combination with the actuating device of a metal working machine, a guide way, through which the metal under operation moves, a carriage movable in the guide way, clamping jaws carried by the carriage, means for moving the carriage within the guide way, means indirectly connected with one of the clamping jaws and extending laterally of the carriage, lugs within the path of travel of the carriage, adapted to engage the last mentioned means for causing a relative movement of the clamping jaws, and means for preventing reverse movement of the metal under operation.

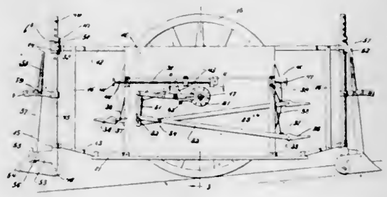
1,344,493. ASH-SIFTING DEVICE. ABRAHAM ELKINS, Bridgeport, Conn. Filed Jan. 14, 1919. Serial No. 271,026. 1 Claim. (Cl. 83—60.)

An ash sifter including a receptacle, having a body portion and a swinging cover, fixed tracks located within said body portion, a removable reciprocating tray located above said tracks and provided with guides adapted to freely slide thereover, a channel bar carried by said tray and arranged vertically thereon at one side thereof, an actuating means for said tray, said means including a crank having one of its angular branches extending into the



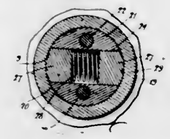
channel of said bar, guides on the upper end of said tray, and tracks carried by the cover and received by said last guides when the cover is closed, said last tracks serving to confine the first named guides against said first named tracks and operating to maintain an operative relation between said channel bar and said crank.

1,344,494. AGRICULTURAL IMPLEMENT. PIETRO PAOLO FAZZARI, Huntington, W. Va. Filed Sept. 15, 1919. Serial No. 324,002. 3 Claims. (Cl. 208—35.)



1. In an occupant operated agricultural implement, a wheel supported tiltable body, vertically adjustable rotatably supported guide wheels at the ends of the body, foot pedals arranged in pairs at each end of the body inward of the guide wheels, and mechanism connected with said pedals and cooperating with the shaft of the ground wheels for turning said wheels in either of two directions to propel the body in either of such directions.

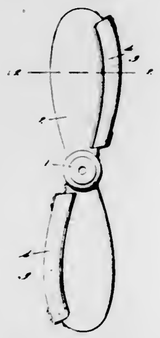
1,344,495. WHEEL-BEARING. CHARLES M. FEIST, Sioux City, Iowa. Filed Dec. 23, 1918. Serial No. 267,989. 3 Claims. (Cl. 64—27.)



1. A bearing for wheels comprising a fixed axle having a cylindrically straight periphery and transversely bored at the center thereof to form seats, a wheel having a central straight bore therethrough and rotatably mounted on the axle, harp members having the axle disposed be-

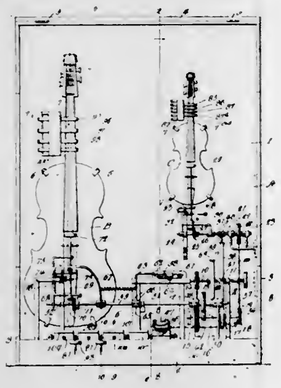
tween the upper extremities thereof, bolts extending transversely through the harp members and the axle above and below the longitudinal center of and the seats in the said axle, and lubricating plugs movably mounted in the said seats of the axle and having outer operating ends extending in reverse directions relatively to the axle at opposite portions of the body of the latter to terminally contact with the bore of the wheel.

1,344,496. AERIAL PROPELLER. ALBERT L. FLATTUM, Syracuse, N. Y. Filed Oct. 6, 1917. Serial No. 195,098. 2 Claims. (Cl. 170—165.)



1. A propeller, the combination of a hub and blades radiating therefrom, each blade comprising a main section and an auxiliary section having a greater pitch and arranged in spaced relation to the main section and said auxiliary section having its inner end spaced from the hub.

1,344,497. PIANO-VIOLIN. CHARLES R. FLEMING, Hoberg, Mo., assignor of one-third to Oscar J. Doss, Hoberg, Mo. Filed Nov. 5, 1915, Serial No. 59,798. Renewed Jan. 15, 1920. Serial No. 351,561. 3 Claims. (Cl. 84—46.)



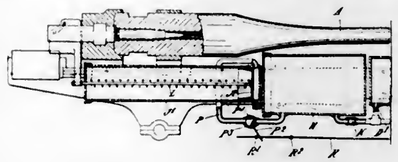
1. In a device of the class described, the combination with a stringed musical instrument, a power shaft mounted for sliding movement adjacent said instrument, a bracket carried by said shaft, a bow shaft mounted in said bracket, a driving connection between said power and bow shafts, a bow wheel on said bow shaft for engagement with the strings of said instrument, means for sliding said power shaft, and means for moving said bow wheel into and out of engagement with the strings of said instrument.

1,344,498. WRITING ATTACHMENT FOR AUTOMOBILE STEERING-WHEELS. ALBERT C. FOX, Lamar, Colo. Filed Mar. 27, 1920. Serial No. 369,392. 2 Claims. (Cl. 45—58.)



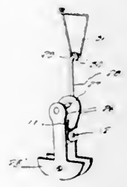
1. A writing attachment for automobile steering wheels comprising a pad body having an integral resilient curl at one end and clamping means in said curl, and subject to the resilient action thereof, clip means at one end of the body plate and adapted to receive and engage the handle portion of a steering wheel, and a rubber band stretched between separated holding means at the under side of the body plate adjacent to the opposite end thereof and adapted to bear on a spoke of a steering wheel to prevent the transmission of vibration to the body plate.

1,344,499. AUTOMATIC FIREARM. HUGH WILLIAM GABBETT-FAIRFAX, London, England. Filed Apr. 5, 1920. Serial No. 371,546. 4 Claims. (Cl. 89—3.)



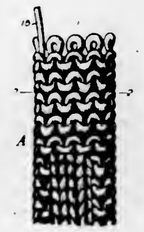
1. In an automatic firearm, a fluid compressing cylinder and piston, means operated by the explosion gases for moving said cylinder and piston relatively to each other, a second fluid compressing means operated by the recoil movement of the gun, a receiver in which the fluid compressed in said cylinders is stored, and means automatically operated by the recoil and counter-recoil movements of the gun for taking the fluid from the receiver as required to work the gun.

1,344,500. CLASP. ANTHONY GIARDINO, Brockton, Mass. Filed Sept. 16, 1916. Serial No. 120,491. 1 Claim. (Cl. 24—253.)



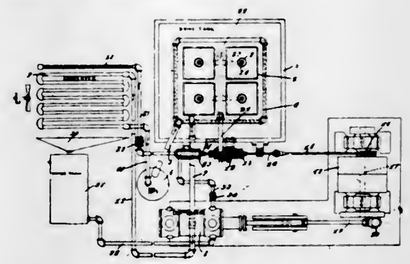
In a device as described, in combination, a crank, a clasp having a pair of jaws, lateral ears on said jaws, pivots adapted to connect said lateral ears together, a head formed upon one end of one arm of said crank, and a spring adapted to separate said jaws so that one jaw will engage the head on said arm and the other jaw will engage the other arm of said crank.

1,344,501. FABRIC CONDUIT. VICTOR C. GILPIN and JOHN E. MCAULIFFE, Brooklyn, N. Y. Filed Apr. 13, 1918. Serial No. 228,487. 6 Claims. (Cl. 247—40.)



5. As a new article of manufacture, a tubular knitted conduit characterized by relatively deep external pockets or interstices, and internal contacting ribs forming braces against external pressure.

1,344,502. ICE-MACHINE. WILLBURN C. GRANT, Abilene, Tex. Filed June 10, 1919. Serial No. 303,159. 1 Claim. (Cl. 62—115.)



In an apparatus of the class described the combination with an ammonia condensing coil, and a compressor provided with a water jacket, of a water tank in communication with said jacket, a pan for collecting water from under the ammonia condensing coil and directing it to the tank, a pump, a pipe connection between the water jacket and the pump, a spray pipe extending over the ammonia condensing coil and a pipe connection between said spray pipe and pump.

1,344,503. METHOD OF MANUFACTURING COMPOSITE SOLES FOR BOOTS OR SHOES. JAMES E. GROSJEAN, Lima, Ohio, assignor, by direct and mesne assignments, of one-fourth to Leon F. Montgomery, Fort Recovery, Ohio, and one-fourth to Frank L. Maire, Lima, Ohio. Filed May 15, 1918. Serial No. 234,709. 4 Claims. (Cl. 12—146.)



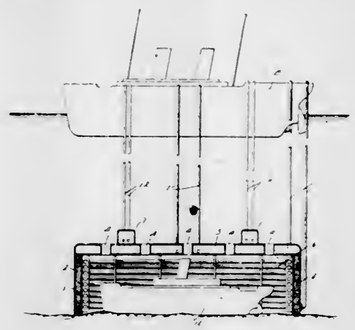
1. The method of manufacturing composite soles for boots or shoes which consists in producing a substantially flat, relatively thin, flexible base, disposing thereon an originally separate tread portion having components of textile material, the ends of whose threads are presented to the tread surface, applying to said base and tread portion a marginal strip of vulcanizable material within which said tread portion is arranged and vulcanizing said base, tread portion and marginal strip under heavy pressure in their assembled relation whereby said tread portion and strip are bonded to one another and to said base.

1,344,504. SOLE FOR BOOTS OR SHOES. JAMES E. GROSJEAN, Lima, Ohio, assignor, by direct and mesne assignments, of one-fourth to Leon F. Montgomery, Fort Recovery, Ohio, and one-fourth to Frank L. Maire, Lima, Ohio. Filed May 15, 1918. Serial No. 234,710. 16 Claims. (Cl. 36—30.)



1. A sole for boots or shoes having a substantially flat, relatively thin and flexible base, a tread portion secured to the under side of said base and composed of textile fabric and vulcanizable material, both presented to the tread surface, said base being of greater area than the tread portion and the latter being arranged whereby said base has a marginal portion projecting beyond the tread portion, and a supporting strip of vulcanizable material laid on said marginal portion in the plane of said tread portion, the sole being vulcanized whereby the components of the tread portion are permanently bonded to one another and the tread and the supporting strip are bonded to one another and to the base, the union of the supporting strip and the vulcanizable material of the tread portion being homogeneous.

1,344,505. APPARATUS FOR RAISING SHIPS. WILLIAM F. GRUMME, New York, N. Y., assignor of one-fourth to Leopold Segal, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,265. 8 Claims. (Cl. 114—51.)

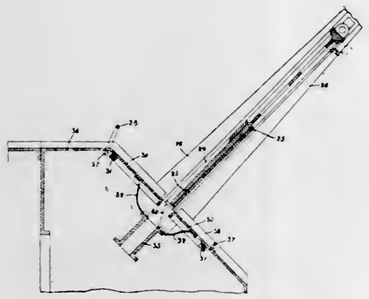


1. An apparatus of the character described, comprising a pontoon having an open bottom, and refrigerating means in the pontoon.

1,344,506. MANUFACTURE OF CIGARETTE AND OTHER ARTICLE CASES. JOHN CHARLES GUNN, Liverpool, England. Filed June 4, 1919. Serial No. 301,797. 6 Claims. (Cl. 93—51.)

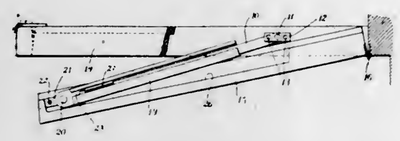
1. In a paper box folding machine, a blank supporting table having sections adapted to receive the front and

rear walls of the box blank, said sections being mounted for swinging movement, the sides of the table for supporting the side walls of the box blank being rigid, and a plunger operating upon a blank wall to depress the remov-



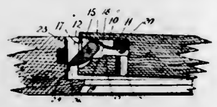
able sections of the table, to cause the corresponding sections of the box blank to move toward each other while the side walls of the blank through the fixed said sections of the table are simultaneously folded inward.

1,344,507. CASEMENT-ADJUSTER. CARL JOHN HAGSTROM, Glen Cove, N. Y. Filed Oct. 16, 1918. Serial No. 258,424. 4 Claims. (Cl. 292—275.)



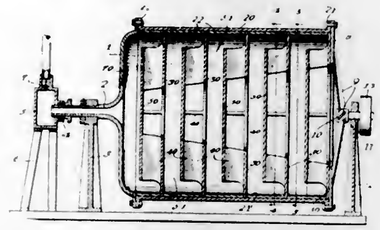
2. In a casement adjuster, the combination of a straight flat bar having adjacent to one end a longitudinal notch, a shoe fitted in said notch and movable longitudinally with the bar, a flat sleeve in which the bar and shoe are longitudinally movable, said sleeve having an inclined edge wall and the shoe having a similarly inclined edge coöperating therewith, and means acting in said notch between the shoe and the bar serving to cause the shoe to bear against the inclined wall of the sleeve.

1,344,508. ANTIRATTLE-CATCH. CARL JOHN HAGSTROM, Glen Cove, N. Y. Filed June 14, 1919. Serial No. 304,119. 4 Claims. (Cl. 292—78.)



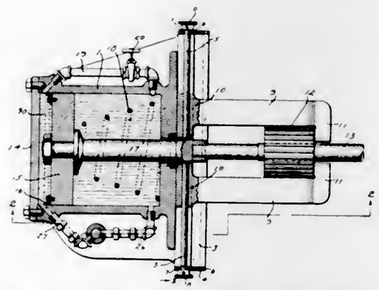
1. The herein described anti-rattle catch for doors or the like comprising a casing and socket piece connected to the relatively movable parts, a bolt pivoted in the casing and having an end projecting beyond the same, a spring acting upon the inner end of the bolt, said end being rounded whereby the force of the spring thereagainst while the door is being opened will serve to hold the bolt in any one of many various positions according to the space between the door and the jamb, and means carried by the socket piece against which the projecting end of the bolt is adapted to strike when the door is closing to cause the bolt to be turned into holding position.

1,344,509. AIR-COMPRESSOR. WILLIAM C. HAMPTON, North Manchester, Ind. Filed July 14, 1919. Serial No. 310,535. 2 Claims. (Cl. 253—188.)



1. A centrifugal air compressor mounted to rotate as a unit about its axis and comprising an annular induction head having a journal and combined spokes and fan blades between it and said journal, an eduction head having a combined conduit and journal, a flanged cylinder connected to said blades, a plurality of compressing members in the cylinder and between the heads and each made up of an annular diaphragm, an imperforate diaphragm spaced from and in parallelism with the annular diaphragm and of less diameter than the same, radial blades interposed between and fixed to said diaphragms, and spacing rings fitting snugly within the casing between the heads and also between the annular diaphragms of the compressing members.

1,344,510. HYDRAULIC GEAR-JACK. ALBERT W. HILLIARD, Wheelersburg, Ohio. Filed Oct. 18, 1919. Serial No. 331,643. 6 Claims. (Cl. 29—86.)



1. An apparatus of the character stated, comprising a casing, a pair of jaws at one end of the casing, a plunger in the casing, a plunger rod projecting through the casing and between the jaws, elastic means holding the plunger normally adjacent one end of the cylinder, and means for forcing fluid from one end of the cylinder to the other to move the plunger against the action of the elastc means.

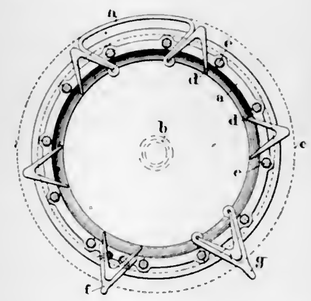
1,344,511. COOKING UTENSIL. JOHN A. HOWARD, Sr., West New Brighton, N. Y. Filed Jan. 30, 1919. Serial No. 274,047. 1 Claim. (Cl. 53—3.)



In combination with a cooking utensil, a hollow upwardly tapered member therein having both ends open

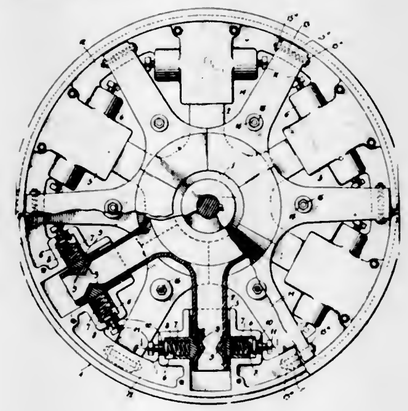
and an inverted dome-shaped plate located above the upper end of said member and connected with said member for catching steam passing from said member, said device having specific gravity greater than that of water whereby it will remain submerged until steam is generated and caught thereby whereupon it will rise to the surface of the water.

1,344,512. VEHICLE-WHEEL. CYPRIEN EDOUARD PAUL JULIEN, Paris, France. Filed Jan. 26, 1920. Serial No. 354,239. 4 Claims. (Cl. 301—39.)



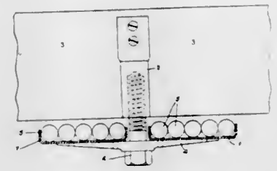
1. An auxiliary wheel rim for wheels comprising a ring of less diameter than that of the tire and provided with inverted V-shaped lateral projections, and bow-shaped filling elements frictionally held between a pair of said lateral projections.

1,344,513. RESILIENT WHEEL. MICHAEL JUNGLING, Washington, D. C. Filed Feb. 26, 1920. Serial No. 361,582. 5 Claims. (Cl. 152—28.)



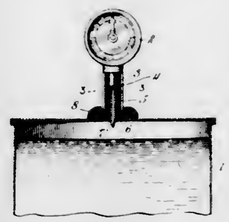
3. In a resilient wheel, a hub portion of transversely tapering section, a rim member, a plurality of plate members pivotally associated with said rim member, said plate members being arranged in pairs, the inner ends of each pair of plate members being adapted to bear on the side walls of said hub, bolts connecting said plate members, springs carried by said bolts and adapted to press said plate members together, a plurality of spokes projecting from said hub member, each of said spokes being provided adjacent its free end with a pair of cam-notches, spoke end housings carried by said rim member, a pair of cam-faced pistons mounted in each of said housings, a spring in each of said pistons, and means for compressing said springs.

1,344,514. ELECTRIC CABLE CARRYING OR SUPPORTING MEANS. ALLAN HENDERSON LESSELLS, New Brighton, England. Filed Jan. 26, 1920. Serial No. 354,285. 2 Claims. (Cl. 248—34.)



1. A means for carrying electric cable on shipboard, including a fixed support, a carrier mounted for adjustment relative to said support and including cross arms, and trays removably supported on said cross arms.

1,344,515. CAN-TESTER. WALTER J. PHELPS, Baltimore, Md., assignor to Phelps Can Company, Weirton, W. Va., a Corporation of West Virginia. Filed Aug. 13, 1919. Serial No. 317,269. 4 Claims. (Cl. 73—51.)



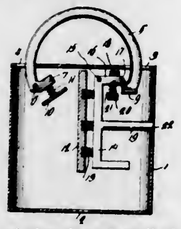
1. A vacuum tester for filled cans of commodities, comprising a piercing tube open at the piercing end, a vacuum gage at the other end of the tube, and yieldable sealing means at the piercing end of the tube for engaging the can to prevent passage of air about the piercing end of the tube.

1,344,516. BOTTLE-CAP. FRED V. PHILLIPS, Rome, N. Y., assignor of one-half to George Randall Cogswell, Rome, N. Y. Filed Mar. 8, 1919. Serial No. 281,333. 1 Claim. (Cl. 215—14.)



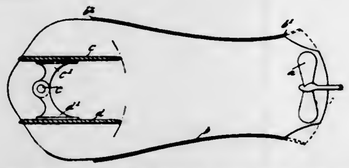
A destructible bottle cap comprising a duality of layers secured together, the bottom layer being formed with a perforation and the upper layer having a flap swingingly connected to the layer at a point back from the edge of the perforation, the flap being joined to its layer by the fibers thereof and being provided with an integral circular depressed portion which enters and engages the edge of the perforation throughout the periphery of the latter.

1,344,517. KEYLESS LOCK. EMMETT J. REBSAMEN, St. Louis, Mo. Filed Apr. 26, 1920. Serial No. 376,787. 3 Claims. (Cl. 70—105.)



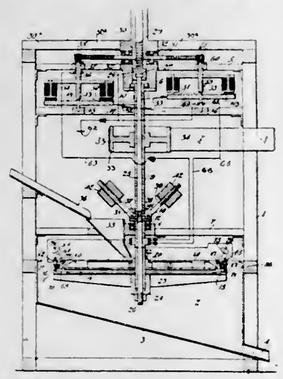
2. In a device of the class described the combination of a casing and a shackle, said shackle provided with a curved body portion having an offset extension at its pivoted end and a locking lug at its free end, a platform situated within said casing adjacent the pivoted end of said shackle, a spring mounted upon said platform so as to engage said offset extension for normally holding said shackle in an open position, a plate situated longitudinally within said casing and provided with a plurality of pockets, springs situated within said pockets, a locking member engaged by said springs, said locking member provided with an arm at its top portion so as to engage said locking lug of the shackle, and means for operating said locking member so as to disengage the arm thereof from the locking lug of the shackle.

1,344,518. PROPULSION AND STEERING OF SHIPS. EDMUND S. G. REES, Wolverhampton, England. Filed Mar. 5, 1919. Serial No. 280,741. 4 Claims. (Cl. 114—145.)



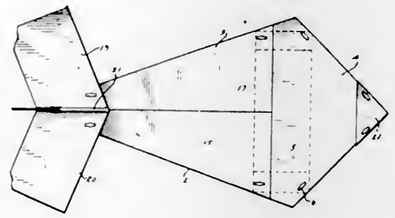
1. In ships propelled by screw propellers, the combination with each propeller of a fixed maneuvering tube or duct open at each end to the surrounding water and expanding in rear of the propeller to the rear opening and means located at the rear end of the duct for controlling the direction of flow within and from the tube of the streams or flume set in motion by the propeller.

1,344,519. CENTRIFUGAL ORE-SEPARATOR. JOHN AINSWORTH RICE, San Francisco, Calif. Filed June 25, 1919. Serial No. 306,562. 15 Claims. (Cl. 233—19.)



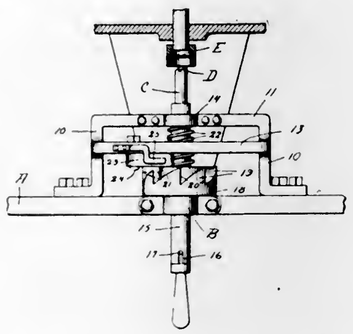
1. In a machine for separating materials differing in specific gravity, a separating element mounted for rotation and comprising an upper member having a central inlet opening, a lower ring-like member, a peripheral discharge opening being formed between said members, and a table between the members, and of less diameter than the members, said table extending over the opening of the ring-like member and forming with said members an annular peripheral chamber.

1,344,520. TOY AIRPLANE. PETER O. ROTH, New York, N. Y. Filed Oct. 11, 1919. Serial No. 329,986. 3 Claims. (Cl. 244—12.)



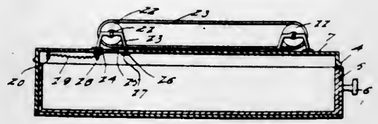
1. A toy airplane comprising a body having a folded central section which is substantially U-shape in cross section, means for holding the U-shaped section together, a rudder having the front part extending into said U-shaped section, a single staple extending through said U-shaped section and said rudder for locking said U-shaped section and said rudder together, an elevator provided with a pair of elevating planes, and a folded U-shaped structure straddling the upper part of said rudder, and a single staple extending through said folded section and said rudder for connecting the elevator thereto.

1,344,521. SAFETY-CRANK. CHRIST SCHMIDT, Monroe, Wash. Filed Feb. 11, 1919. Serial No. 276,305. 1 Claim. (Cl. 123—185.)



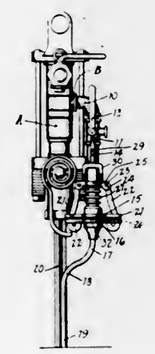
A safety crank for the internal combustion engines of motor vehicles, comprising a horizontally disposed U-shaped auxiliary frame secured upon the front cross bar of the frame of a motor vehicle, a longitudinally movable hollow shaft journaled in said frame and provided at its outer end with slots, a crank extending through and movable with said hollow shaft and formed for engagement with the starting ratchet of the engine, pins on said crank disposed within said slots, a ratchet wheel secured upon said shaft, teeth formed on the periphery of said ratchet wheel and having straight ends parallel with the axis of said wheel and having inclined side faces, an inverted U-shaped bar secured to said auxiliary frame, a spring pressed pawl pivoted upon said bar and engageable upon said teeth, said pawl riding idly over the straight edges of said teeth upon rotation of said ratchet wheel in a clockwise direction, the free end of said pawl riding upon the inclined face of any one of said teeth upon reverse rotation of said ratchet wheel whereby to exert a wedging action for moving said ratchet wheel and hollow shaft outwardly with resultant retraction of said crank from operative connection with the crank shaft of the engine.

1,344,522. ENDLESS, RAZOR-STROP AND CABINET. CLEMENT A. SHOUP, Toledo, Ohio. Filed Apr. 5, 1917. Serial No. 159,939. 1 Claim. (Cl. 51—16.)



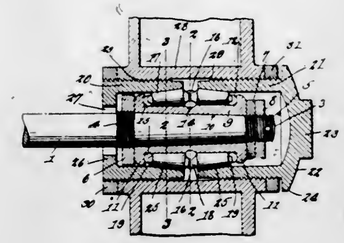
A razor strop comprising an elongated hollow base having pairs of spaced slots in its top wall adjacent one end thereof, a pair of spaced supports permanently secured to the outer face of the top wall of the base adjacent the other end thereof, a roller journaled to said supports, a second pair of spaced supports having diverging legs extending through the slots, a roller journaled to said second supports, an endless strop mounted on said rollers, a pair of spaced collars formed on each of the legs of the second supports and the collars of each pair located one above and one below the top wall of the base to limit the inward and outward movement of said legs and adapted to permit free sliding movement of said second supports on the base, a spring connected to one leg of each second named bracket and secured to the inner face of the top wall of the base for keeping the strop taut and permitting slackening of the strop when the pressure of a razor thereon is increased, and means whereby one of the rollers may be rotated.

1,344,523. AIR-HAMMER ATTACHMENT. ARTHUR VERDESCA, West New York, N. J. Filed July 8, 1918. Serial No. 243,876. 1 Claim. (Cl. 121—10.)



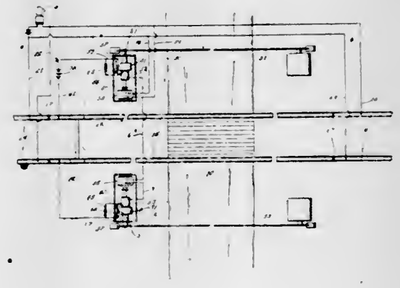
The herein described attachment for a drill driven by an air motor having a lateral exhaust, the same comprising an elbow adapted for connection with said exhaust, a three-way valve whose casing is carried by the elbow, a pipe section carried by said casing and extending alongside the motor, an air discharge nozzle adapted to be inserted in the tool hole alongside the drill and having its upper end deflected laterally, and detachable coupling means between said upper end and the lower end of said pipe section at a point opposite the upper end of the drill.

1,344,524. BEARING. LAMBERT H. VERVOORT, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,357. 5 Claims. (Cl. 64—39.)



1. In a device of the class described, a shaft having a tapered part, nuts on the shaft at the ends of the tapered part; a sleeve wedged on the tapered part of the shaft between the nuts and having end flanges, the sleeve having surfaces which slant in opposite directions toward the flanges; a main tubular member; casing elements threaded into the main member, the main member having an annular internal rib extended between the inner ends of the casing elements, the casing elements having slanting internal surfaces coöperating with the slanting surfaces of the sleeve; first balls coacting with the flanges of the sleeve; second balls interposed between the rib of the main member and the sleeve; frusto-conical rollers coöperating with the slanting surfaces of the sleeve and the casing members, the rollers having reduced outer ends received between the first balls and having reduced inner ends received between the second balls; and nuts on the casing elements and engaging the ends of the main member.

1,344,525. SIGNAL AND GATE-OPERATING MEANS FOR RAILROAD-CROSSINGS. JOHN VIRAG, Dayton, Ohio. Filed Nov. 17, 1917. Serial No. 202,664. 1 Claim. (Cl. 246—128.)



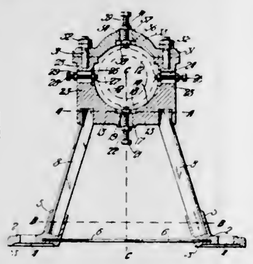
In a device of the class described, an insulated track section, a plurality of gates certain of which are mechanically operated and others of which are mechanically and electrically operated, a motor for operating each of the gates last named, a circuit and a source of current for said motors, said circuit last named being completed by the passage of a train over the insulated track section, and means permitting the maintenance of the circuit and the continuous operation of the motors while said track section is occupied and the gates are closed, said means last named including an electrically controlled clutch, a circuit therefor, and a resistance automatically thrown into circuit with the electrical controlling elements of the clutch when the gates assume a horizontal position.

1,344,526. FLOWER-HOLDER. MARY GARNER TILNEY, Mobile, Ala. Filed Nov. 12, 1919. Serial No. 337,409. 1 Claim. (Cl. 47—18.)



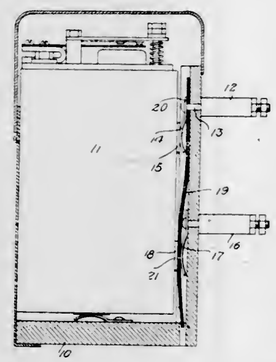
A flower holder for decorative purposes comprising an open top trough and a removable wire mesh top adapted to receive and hold flowers, such trough having the configuration of a predetermined design and provided with drain outlet through its bottom wall adjacent one end thereof, a rigid support for such end, and a slow-percolation mass disposed beneath said outlet and support.

1,344,527. SHAFT-HANGER OR PLUMBER-BLOCK. JAMES DICKSON WAERN, South Melbourne, Melbourne, Victoria, Australia. Filed Oct. 1, 1918. Serial No. 256,403. 1 Claim. (Cl. 64—14.)



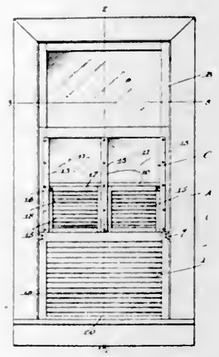
A composite unitary shaft support or hanger having the height defining portions of wrought material and the bearing portions of cast material united with the height defining portions by being cast around the latter, whereby the parts of the structure more largely subjected to strain and liability of fracture are inherently resistant thereto, and the bearing parts subjected to wear inherently more resistant thereto and substantially standardized without regard to the height defining portions.

1,344,528. INTENSIFIER. HARRY R. WALKER, Galatia, Ill. Filed Aug. 23, 1919. Serial No. 319,325. 4 Claims. (Cl. 123—148.)



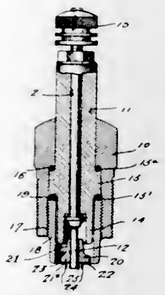
1. The combination with a spark coil unit having a fixed contact and a spring contact, of an insulated element interposed between said contacts to space the latter apart to provide a gap.

1,344,529. WINDOW. JAMES W. WHITE, Bainbridge, Ga. Filed Oct. 10, 1916. Serial No. 124,905. 1 Claim. (Cl. 20—40.)



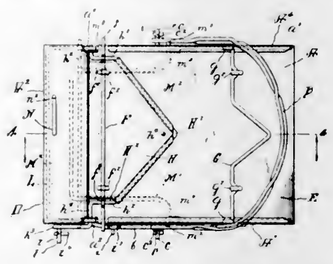
The combination with a window sash, of shoulders formed longitudinally of the sash stiles and spaced from the window pane, retaining strips secured to the face of the sash and spaced from the shoulders to define grooves and a member mounted for sliding movement in the grooves.

1,344,530. SPARK-PLUG. WILLIAM H. ZEIGLER, Long Island City, N. Y. Filed Sept. 22, 1919. Serial No. 325,500. 6 Claims. (Cl. 123—169.)
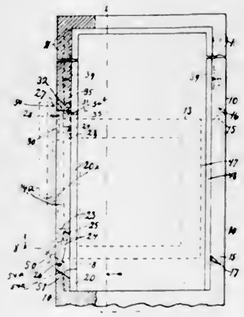


1. In a spark plug, a plurality of electrodes, a cleaning element arranged for reciprocatory movement on one of said electrodes, spark points carried by said cleaning element intervening the electrodes to provide a plurality of spark gaps between said electrodes.

1,344,531. SANITARY RECEPTACLE. HOWARD EMERSON AMES, Washington, D. C. Filed Sept. 25, 1918. Serial No. 255,686. 24 Claims. (Cl. 4—33.)



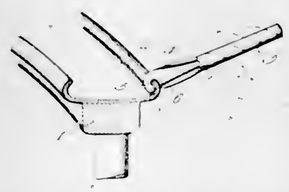
1. A device of the character described, comprising a receptacle, a hinged lid for same, a ball and means automatically operated by the lifting of said bail for lifting said lid, a seat piece detachably mounted on the top and rear of said receptacle, and covered by said lid when closed, and a bucket detachably mounted in said receptacle in front of said seat, substantially as described.

1,344,532. WINDOW-FRAME WITH SASH-CORD HOLDER. THOMAS CHRISTOFFEL, St. Paul, Minn., assignor of one-half to Frederick Iseli, St. Paul, Minn. Filed Apr. 24, 1919. Serial No. 292,479. 2 Claims. (Cl. 20—12.)



2. The structure specified in claim 1, said oblong plate having its link portion or lower arm reduced in width and the hinging of said upper link to the strip, comprising trunnions on the link recessed into the face of the strip and a U-shaped plate secured by screws to the strip and serving to keep the trunnions in the recesses; the arms of said U-shaped plate straddling the link portion of the oblong plate and projecting slightly up under the broader portion of the said oblong plate.

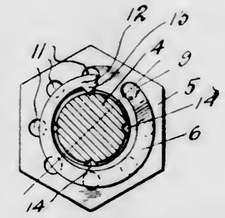
1,344,533. TOOL FOR STRAIGHTENING CLENCHER-RIMS. JOHN M. COLE, Bloomington, Ill. Filed Aug. 1, 1919. Serial No. 314,719. 1 Claim. (Cl. 81—15.)



A rim flange straightening tool comprising a handle having a head at one end, the head having a curved outer end merging into opposite side faces of the head, the head being cut transversely for its full width from one side face adjacent the curved end and toward the outer end of the head to provide a flange receiving pocket having a constricted mouth and inner and outer flange gripping jaws, the outer jaw having a concaved inner face and a rounded free end merging into the outer face of the outer jaw, the inner jaw having its face merging into the concaved face of the outer jaw at the inner end of the pocket and at its outer end curved to provide a work engaging face constituting a fulcrum and coöperating with the rounded free end of the outer jaw to slidably engage and bend a rim flange from opposite sides.

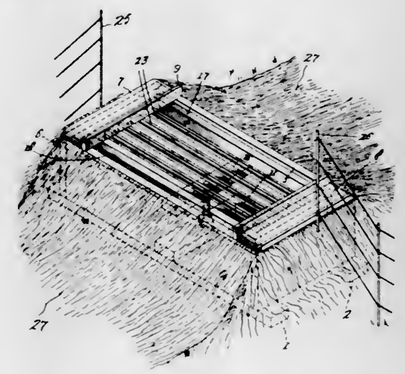
1,344,534. NUT-LOCK. JAMES F. COMLY, New Lexington, Ohio. Filed Feb. 19, 1920. Serial No. 359,921. 1 Claim. (Cl. 151—11.)

A nut lock structure comprising a bolt having a longitudinal locking groove provided in its threaded shank, a nut threaded upon said shank and having a pocket formed in its inner face, a washer member for locking said nut in an applied position upon said bolt shank, said member being formed to include a split resilient body of ring shaped formation, one of the ends of said member being formed with a rigid element capable of occupying said pocket, the other end of said member being gradually reduced in thickness to render the same resilient in a



plane transverse to the longitudinal axis of the bolt, a projection formed with said resilient end and capable of removably occupying said groove to maintain said nut in an adjusted position upon said bolt, and the ends of said washer member being relatively offset to cause said member to be placed under tension when the same is forced into engagement with a coöperative surface by the threaded adjustment of the nut upon said bolt.

1,344,535. CATTLE-GUARD. EMORY HICKOK, Engle, and ALBERT H. HOLLENBECK, Fair View, N. Mex. Filed Oct. 13, 1919. Serial No. 330,273. 8 Claims. (Cl. 256—15.)



1. An improved cattle guard adapted for placement on a roadway and including a frame mounted for shifting motion and adapted to be shifted in response to the weight of cattle imposed thereon, and fixed treads over said frame to receive the wheels of vehicles, substantially as described.

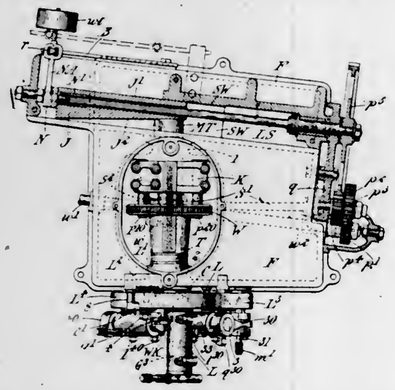
2. An improved cattle guard including a box-like structure forming a unit and being open at the top and bottom, a grid movably supported in the top of the box, and treads passing over the top of the box near the ends thereof, substantially as described.

3. In an improved cattle guard, a vertically disposed bolt, and a platform supported on said bolt and adapted to oscillate both longitudinally and transversely on said bolt, substantially as described.

1,344,536. PRECISION MACHINE-TOOL. ARTHUR ERNEST JERRAM, Leicestershire, England. Filed Apr. 22, 1918. Serial No. 230,088. 24 Claims. (Cl. 82—5.)

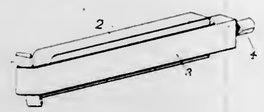
1. A machine provided with a rotary traversing mandrel combined with a shaft and two separate trains of reduc-

ing gearing, which two trains are connected separately from one another to the said shaft, and are operative connections of a positive kind connecting the mandrel and said shaft and are proportioned the one train to turn the



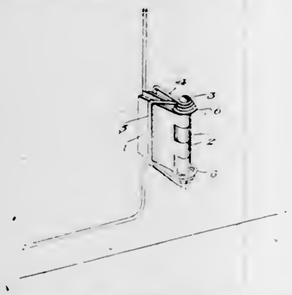
mandrel at an angular velocity low in relation to that of the said shaft and the other train to impart "traverse" to the mandrel of a linear velocity low in relation to the peripheral velocity of that shaft.

1,344,537. TOOL-HOLDER. GUSTAV KALBERER, Knoxville, Pa. Filed Apr. 15, 1919. Serial No. 290,329. 3 Claims. (Cl. 29—96.)



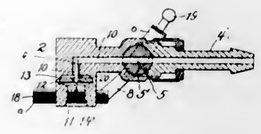
1. In a tool holder, a body of elongated rectangular shape provided in its lateral faces with grooves extending the full length thereof, and a frame fitting about and inclosing said body and having its lateral arms slidable in said grooves, said frame being of greater length than the body and closed at both ends, and a pressure screw threaded through one end of the frame and bearing against the adjacent end of the body.

1,344,538. SPRING-HINGE. JOHN KAUFMAN, Prairie du Sac, Wis. Filed Apr. 3, 1920. Serial No. 371,071. 2 Claims. (Cl. 16—25.)



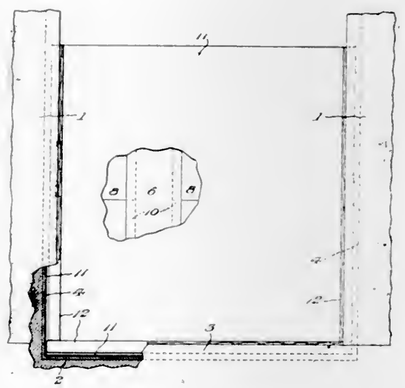
1. An attachment for hinges for swinging the plates thereof against each other, comprising a member including crossed wings that are connected by spring coils which are disposed over the barrel of the hinge plate and secured thereto by the pintle connecting the plates whereby each wing will exert a spring pressure in the direction of the hinged plate with which it contacts.

1,344,539. AIR-PUMP CONNECTOR FOR AUTOMOBILES. LEWIS G. KING, Deposit, N. Y. Filed Feb. 9, 1916. Serial No. 77,260. 1 Claim. (Cl. 284—17.)



An air pump connector comprising a head having a recess and a passage extending from said recess outwardly to receive an air valve stem, a neck extending at an angle from said head and having an enlarged outer end, a chamber in said enlarged end provided with a valve seat connected by a bore with said recess, a rotatable valve in said valve seat, a tubular connection having means on one end to attach an air hose and an enlargement on the other end furnished with a coöperating seat for said valve and fitted into said chamber, a cap nut for holding said valve seats in engagement with the valve, an operating handle for the valve, a pair of wedge bars slidable in said head on opposite sides of the passage leading from the recess, an connecting links between said valve handle and said wedge bars.

1,344,540. BUILDING-PROTECTOR. REINHOLD KIRCHNER, Mobile, Ala. Filed Dec. 10, 1918. Serial No. 266,163. 3 Claims. (Cl. 189—46.)

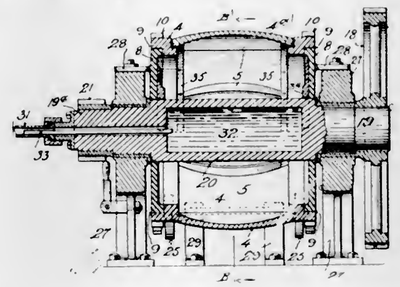


1. In a protective closure for building structures, the combination of channel irons having a permanent anchored connection with the walls bounding an opening in such structure, a closure adapted to have the edges thereof seated in the channels of said channel irons, a sheet of waterproof fabric covering the face of said closure, and separable fastening means adapted to be inserted in said channel irons for holding the marginal portions of said sheet in place.

,344,541. MIXING-MACHINE. JOSEPH D. LACROIX and AUGUST H. PETERSEN, Akron, Ohio, assignors to Kelly-Springfield Tire Co., New York, N. Y. Filed Nov. 8, 1919. Serial No. 336,638. 12 Claims. (Cl. 18—2.)

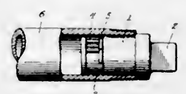
1. In a machine of the character described, a closed mixing chamber having stationary ends and a body casing

adapted to revolve around said ends in contact therewith, associated mixing mechanism within said chamber, means



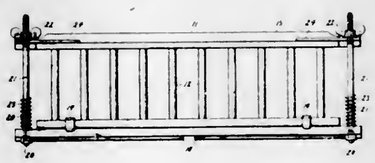
to revolve said body casing and to operate said associated mechanism.

1,344,542. WRENCH. JAMES H. LANE, Marshalltown, Iowa. Filed Apr. 28, 1919. Serial No. 293,064. 1 Claim. (Cl. 81—72.)



A wrench of the class described comprising a member having a cylindrical part provided with an annular groove having its bottom eccentrically arranged, a toothed dog in said groove and a split spring ring for removably holding said dog in said groove.

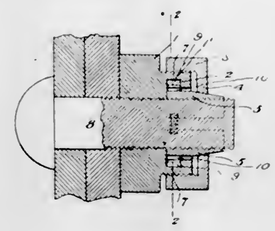
1,344,543. COLLAPSIBLE CRATE. EDWARD W. LANGRELL, Penns Grove, and JOHN J. NUSS, Carneys Point, N. J. Filed Nov. 26, 1918. Serial No. 264,237. 3 Claims. (Cl. 217—47.)



1. In a crate, the combination with a top, a bottom, sides and ends, the latter hinged to the bottom and adapted to support the top when the same is in set-up position, of securing and locking elements, one for each corner, each securing and locking element consisting of an upright secured in the bottom, a locking part hinged to the upper end of the upright, and a projection formed by the hinging of the locking part to the upright at a point a distance from the lower end of the locking part whereby when the top is in knocked-down position, the corners thereof will lie below the plane of hinged connection of the locking part with the upright, permitting said locking part to be swung over the top, whereby said projection will traverse the corner of the top and lock the top against movement relative to the bottom.

1,344,544. LOCK-NUT. WILLIAM R. LORENZ, Denver, Colo. Filed Mar. 9, 1920. Serial No. 364,486. 2 Claims. (Cl. 151—19.)

1. A device of the class described comprising a nut having a screw threaded extension, said extension having an interior groove, a pair of semi-circular clamping members each having a flange thereon non-rotatively engaging the groove and a beveled outer end, a screw threaded sleeve

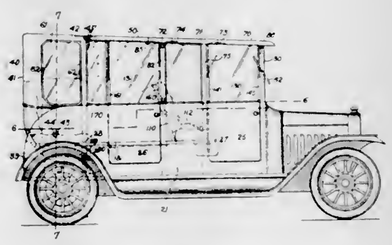


engaging the screw threaded extension and a flange on said sleeve for engaging the beveled parts of the clamps for forcing the clamps against the bolts.

1,344,545. DUSTLESS DUSTER. FRED H. MCGREGORY, Decatur, Ill. Filed Jan. 17, 1916. Serial No. 72,593. 1 Claim. (Cl. 87—5.)

A dustless duster comprising cotton waste, stitched to prevent raveling, lightly impregnated with a mixture having the following named ingredients, mixed in the proportions stated, viz: terpineol, 3 ounces; paraffin oil having a gravity of 25° Bé., a flesh point of 340° and a viscosity of 110, 4 gallons; hydrocarbon oil having a gravity of 31° Bé., a flash point of 450 and a viscosity of 220, 1 gallon; oil of citronella 2 ounces and crude "benzol" containing about 70% benzene, 24% toluene and 6% xylene, 1 gallon.

1,344,546. CONVERTIBLE AUTOMOBILE-BODY. JOHN J. MCGUIRE, Yonkers, N. Y. Filed May 5, 1919. Serial No. 294,790. 15 Claims. (Cl. 296—66.)

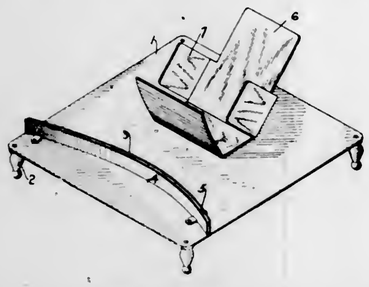


1. In a convertible automobile body, a main body having side walls extending substantially the length of said body and provided with front and rear doors, fixed front and rear seats in said body, and a rigid coupé-like superstructure comprising side and rear walls and a top, extending above said body between the side walls thereof and having the side walls of said superstructure pivoted to the side walls of said body adjacent the rear end thereof, so that said superstructure is adapted to fold downwardly within said main body between the side walls thereof, the said superstructure forming the back for the rear seat.

1,344,547. CARD APPLIANCE. HENRY MAIER, Brooklyn, N. Y. Filed Apr. 14, 1919. Serial No. 289,799. 2 Claims. (Cl. 46—55.)

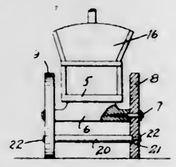
1. A card appliance, including a supporting plate, card holding means positioned adjacent the forward edge of such supporting plate, a card-pack receiver to the rear of such receiving means and upon such plate, such card-

receiving means including a single sheet of material having its back inclined upwardly from such plate, a base



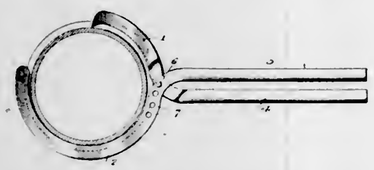
portion contacting with such plate, a foot portion extending upwardly from the outer edge of the base, and side flaps extending outwardly from the back.

1,344,548. TOY. GEORGE H. MARSDEN, New York, N. Y. Filed July 8, 1919. Serial No. 309,309. 7 Claims. (Cl. 208—165.)



1. A toy of the class described comprising a platform, having rotatable ground engaging members provided with arcuate surfaces, and means on the members adapted to coact with the platform to limit rotation of said members.

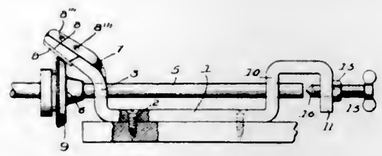
1,344,549. CARBON-REMOVING TOOL. HARRY F. MARTIN, Utica, Kans. Filed May 4, 1918. Serial No. 232,541. 1 Claim. (Cl. 83—64.)



A tool of the class described embodying two arcuate jaws pivotally connected and together exceeding a semicircle, one of said jaws being longer than the other, the shorter jaw having at its extremity an inwardly projecting scraping bit, and the other jaw being provided with a smooth inner face whereby a free rotative and guiding movement is permitted between the tool and the work while the scraping bit is performing its function, and handles extending from said jaws.

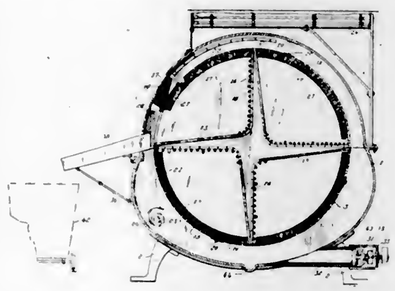
1,344,550. VALVE-FACE-CUTTING TOOL. HARRY F. MARTIN, Utica, Kans. Filed July 12, 1918. Serial No. 244,597. Renewed Feb. 13, 1920. Serial No. 358,410. 2 Claims. (Cl. 82—1.)

1. A valve cutting tool composed of a strip of tool steel of uniform transverse dimensions having one end portion thereof bent substantially at a right angle and then at an oblique angle, such right angular portion being formed with a bearing opening for the stem of the valve, and such oblique having a cutter for the working face of the



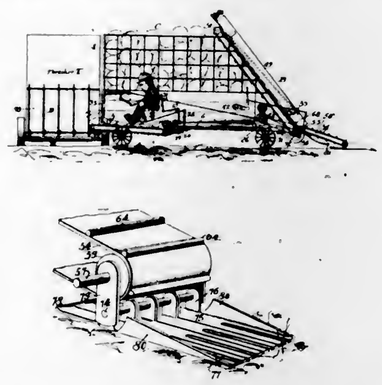
valve, the other end portion being bent substantially at a right angle and formed with a bearing opening for the valve stem.

1,344,551. DUSTING AND DEODORIZING MACHINE. LOUIS E. MASHECK, Canton, Ohio. Filed Nov. 15, 1919. Serial No. 338,371. 3 Claims. (Cl. 34—5.)



3. A machine of the character described comprising a casing, a rotatable cylinder within the casing comprising a plurality of compartments, each compartment having one wall inclined at an angle to the radius of the cylinder, an opening in the casing, and means for stopping the cylinder with each of said inclined walls registering with said opening.

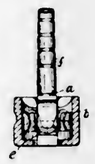
1,344,552. AGRICULTURAL IMPLEMENT. RALPH BARCLAY MASON, Somerset, Pa. Filed Mar. 2, 1918. Serial No. 219,990. 10 Claims. (Cl. 56—348.)



9. In an elevator for sheaf loaders, the combination with side frame members, of a shaft mounted in the lower ends of a pair of said members and having a portion pro-

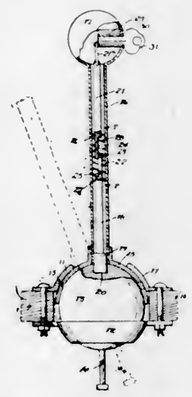
jecting beyond the sides of said members, hangers mounted on said projecting portions, a shaft carried by the hangers and a plurality of shoes including ears mounted on said shaft, said shoes including rearwardly extending heels and guards formed on the shoes at the lateral extremities of said shaft.

1,344,553. SHUTTLE. THOMAS MATLOOB, Paterson, N. J. Filed Nov. 5, 1919. Serial No. 335,922. 1 Claim. (Cl. 139—46.)



In combination, a shuttle body, a spindle pivoted therein on a transverse axis and movable to and from a position where it stands depressed in and extends substantially longitudinally of the shuttle body, and a crotched member having a projecting leg on each side of its crotch stationarily anchored in the shuttle body, said crotched member being arranged in position for the spindle to enter the same when the spindle is depressed, whereby a tubular quill on the depressed spindle may be jammed between the spindle and crotched member.

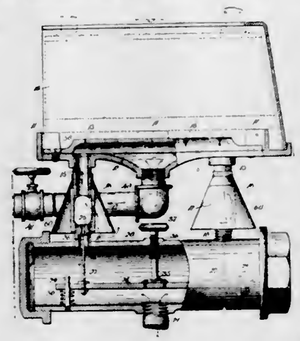
1,344,554. LOCK DEVICE FOR GEAR-SHIFT LEVERS. CLAUDE E. MENTZER, Des Moines, Iowa, assignor of three-sixteenths to Herbert H. Searle, one-eighth to Fred W. Miller, one-eighth to John F. Griffin, one-eighth to Earl A. Lewis, and one-eighth to Arthur T. Wallace, Des Moines, Iowa, and one-eighth to Mahlon M. Head, Jefferson, Iowa. Filed July 8, 1919. Serial No. 309,407. 6 Claims. (Cl. 70—128.)



6. In a device of the class described, a pair of lever members, each being mounted for universal movement, a locking device adapted in one position to lock said lever members together, and in another position to permit free movement with relation to each other.

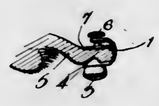
1,344,555. GAS-HEATER. CHARLES M. MOGNI, New York, N. Y. Filed July 8, 1919. Serial No. 309,277. 5 Claims. (Cl. 159—99.)

5. A gas heater, comprising a combustion chamber having openings in its top, mixing tubes having air inlet openings, nipples connecting the mixing tube with the bottom of the combustion chamber, conical hoods secured to the nipples and inclosing the mixing tubes, a gas chamber, nipples connecting the mixing tubes with the gas chamber and having valve seats, spring pressed needle



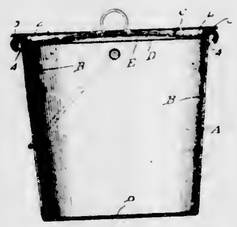
valves mounted in the gas chamber and engaging the valve seats, means for controlling the needle valves, said means being common to both valves, and an air pipe opening into the bottom of the combustion chamber intermediate of the nipples thereof.

1,344,556. FASTENING DEVICE FOR EAR ORNAMENTS. HARVEY TANNER MOLER, Philadelphia, Pa. Filed July 19, 1919. Serial No. 311,917. 1 Claim. (Cl. 24—263.)



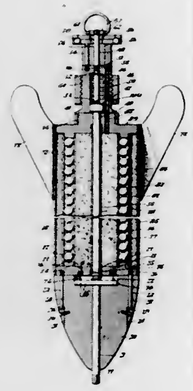
An ear ornament mounting comprising a U-shaped yoke disposed in straddling engagement upon the rear free edge of the ear above the lobe thereof, a knob carried by the outer arm of the yoke and having a convex face adapted for engagement within a furrow adjacent the outer edge of the ear, a flat leaf disposed inwardly of the other arm of the yoke and engaging against the side of the ear toward the head, and a screw threaded through the inner arm of the yoke and engaging said leaf.

1,344,557. FIRE-BUCKET. WILLIAM R. MYERS, Hampton, Va. Filed Oct. 5, 1918. Serial No. 257,042. 2 Claims. (Cl. 220—63).



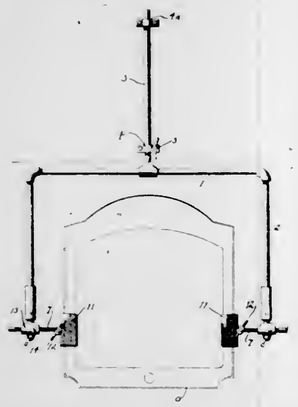
1. In a fire bucket having a chemical resistant inner surface, an outturned rim coated on its inner and upper surface with adhesive material, a lid having an upturned rim adapted to fit resiliently within and upon said rim of the bucket and a pliant fragile protecting sheet interposed between the bucket and the lid, and adapted to be depressed by said rim into said bucket against the inner adhesive coated surface of the bucket.

1,344,558. AEROPLANE-SHELL. JOHN W. NIEUKIRK, Gary, Ind. Filed May 20, 1918. Serial No. 235,470. 11 Claims. (Cl. 102—2.)



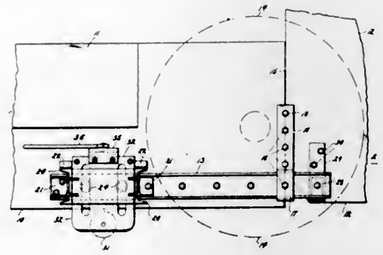
1. In an explosive shell, a fuse for the explosive charge thereof, a cap for said fuse, a hammer, a stem thereon, a head for the stem, a rotatable fan designed to be actuated by resistance to air when the shell is projected, said fan normally holding the hammer out of cap engaging position and designed, when actuated to move against the head of the stem to draw on the stem of the hammer to force the latter into cap contacting engagement to explode the latter and ignite the fuse.

1,344,559. RADIATOR-SUPPORT. AUGUST L. W. OHMACHT, Cresco, Iowa. Filed Oct. 2, 1919. Serial No. 328,002. 7 Claims. (Cl. 29—89.)



1. A support for holding radiators during repair, comprising a yoke consisting of a body and arms, each arm having a split bearing at its end, a rod passing through each bearing, means for clamping the bearing on the rod, and releasable means in connection with the arm for engaging the rod to hold the rod from movement longitudinally as it is rotated, each rod carrying a clamp at its inner end for engaging the radiator, each clamp consisting of similar angle plates for engaging the front and rear faces of the radiator, and means for clamping the plates on the radiator.

1,344,560. APPARATUS FOR CUTTING AND BREAKING ASPHALT OR CONCRETE. JOSEPH PETERMANN, Philadelphia, Pa. Filed Nov. 5, 1918. Serial No. 261,254. 3 Claims. (Cl. 37—50.)



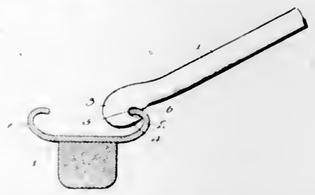
1. In an apparatus for cutting and breaking asphalt or concrete, the combination with a road roller, the boiler and water reservoir thereof, of a housing mounted on each side of the water reservoir, said housing comprising channel and strap-like supporting members secured to the sides of the water reservoir, a cutter mechanism in each housing, spaced shafts passing through said cutter mechanism, said shafts passing through the water reservoir and projecting from both sides thereof, and tubular bearings for said shafts and encircling medial portions thereof, said tubular bearings traversing the water reservoir and isolating said shafts from the contents of the former.

1,344,561. VENTILATING-WINDOW. CONRAD POEHNER, Cincinnati, Ohio. Filed Sept. 22, 1917. Serial No. 192,728. 2 Claims. (Cl. 268—18.)



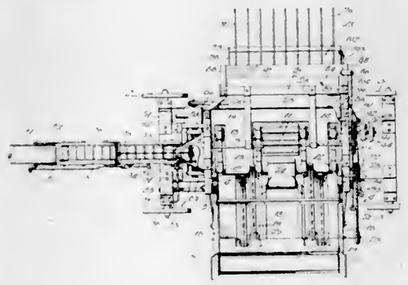
1. In a device for the purpose set forth, a hinged shutter, a flat spring guided thereon and contacting therewith for retaining the shutter in one position, a bracket below the shutter, guides on said bracket, anti-frictional elements carried thereby, a curved arm pivoted on the outer end of said bracket and contacting with said shutter, a slotted actuating rod receiving the arm and resting on the anti-frictional element between the guides, a ratchet bar, a spring latching dog carried by the operating bar and engaging said ratchet bar, a handle for the operating bar, a spring influenced arm pivotally secured to said handle and being arranged, when forced toward the handle to operate the dog to bring the same out of engagement with the rack.

1,344,562. AUTO-RIM TOOL. PURLEY O. PROBASCO, Buhl, Idaho. Filed Dec. 7, 1917. Serial No. 206,079. 1 Claim. (Cl. 81—15.)



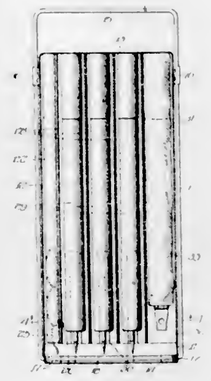
A tool for bending the flanges of vehicle wheel rims and restoring same to their normal shape said tool comprising a body of suitable length to be operated as a lever a curved head portion at one end of said body, a rim engaging bill having a rounded outer face which curves continuously to the extreme point of the bill, a curved portion of the tool embodying a curved flange receiving slot, and a rounded integral portion directly opposite the point of the bill that is adapted to provide a fulcrum adjustable with respect to the work held in the work holding slot, to meet the requirements of a change in the application of the tool to the work, in reshaping the flange.

1,344,563. EAR-SNAPPING AND CORN-HUSKING MACHINE. JOSEPH W. PROMENSCHENKEL, Shelby, Ohio. Filed Apr. 28, 1919. Serial No. 293,060. 4 Claims. (Cl. 130—5.)



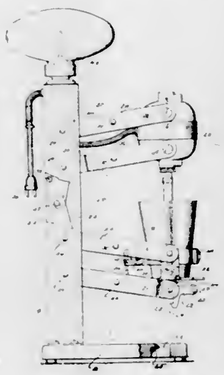
1. A machine of the class described comprising a base, a frame rising from said base, vertically spaced snapping rollers at the upper end of said frame, means for feeding stalks of corn to said snapping rollers, a deck extending laterally from the lower portion of said frame, a substantially vertical guard plate extending from the lower snapping roller to a point adjacent said deck, and arched guide bars having depending ends spaced outwardly from said guard plate and extending from the upper snapping roller to points adjacent the lower end of said guard plate, said plate and bars serving to guide the fodder from said snapping rollers to said deck.

1,344,564. SIGNAL-CARRYING CASE. JOHN P. RODENBURG, Duluth, Minn. Filed Oct. 2, 1919. Serial No. 328,003. 6 Claims. (Cl. 246—488.)



3. A signal-carrying case including a main body portion, a door pivotally connected thereto, and a handle connected to said door by means of which the door is held closed when the case is in a hanging position.

1,344,565. DRINK-MIXING DEVICE. HERMAN C. SCHLICKER, Milwaukee, Wis. Filed Dec. 29, 1919. Serial No. 347,938. 12 Claims. (Cl. 259—134.)

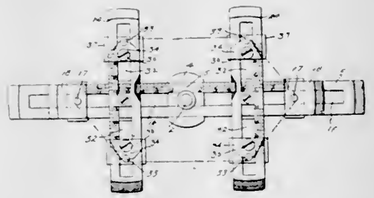


1. A drink mixing device, comprising a standard, a motor carried by said standard and having a downwardly extending mixing stem, and a container support carried by said standard, said motor and support both being operatively connected to move toward each other to operative position.

1,344,566. SOLDER FOR ALUMINUM. JULIAN SEGURA, New York, N. Y. Filed May 18, 1920. Serial No. 382,358. 2 Claims. (Cl. 75—1.)

2. A solder for aluminum consisting of 49 parts of zinc; 40 parts of tin; 10 parts of lead; and 1 part of white metal (the composition of the white metal ranging from 80 to 90% tin, 5 to 15% antimony, and 3 to 10% copper).

1,344,567. COIL-WINDER. LOUIS F. STRATTON, Charlotte, N. C. Filed Nov. 8, 1919. Serial No. 336,712. 10 Claims. (Cl. 242—110.)

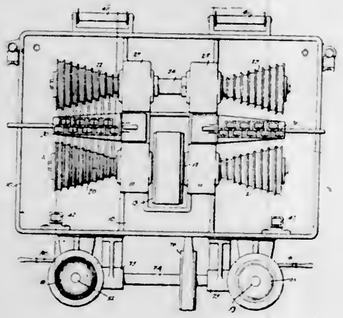


1. A coil winder comprising a revoluble frame, comprising frame strips and cross strips, a plurality of posts spaced apart thereon and around which the coil is formed, means for slidably adjusting the positions of said posts relative to each other, and means for selectively and angularly adjusting the position of said cross strips relative to each other and the frame strips.

1,344,568. WIRE-DRAWING MACHINE. DANIEL C. SULLIVAN and GEORGE L. HAWKINS, Elizabeth, and WILLIAM J. MACMILLAN, Roselle, N. J., assignors of one-half to Daniel C. Sullivan, Elizabeth, N. J., and one-half to Almion Engineering & Contracting Company, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1917. Serial No. 206,184. Renewed Mar. 20, 1920. Serial No. 367,427. 3 Claims. (Cl. 205—13.)

1. In a wire drawing machine, a shaft, a conical drawing roll on each end of the shaft, a pulley on the shaft

between the rolls, a second shaft parallel with the first shaft, an idler conical drawing roll on each end of the second shaft, stationary dies between the rolls on the corresponding ends of the said shafts, winding drums on which wind the drawn wires, a driven main shaft having a pulley thereon, a belt passing around the said pulley and the pulley on the roll shaft, a counter shaft connected with and driven from the main shaft, clutch shafts, gearing between the clutch shafts and counter shaft, clutches connecting the clutch shafts with the winding drum shafts, and clutch shifting means for shifting the clutches independently of one another.

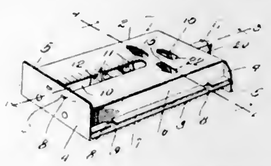


2. In a wire drawing machine, two parallel shafts, conical drawing rolls mounted on the ends of the said shafts, stationary dies intermediate the rolls on the corresponding ends of the said shafts, winding drums on which wind the drawn wires, a driven main shaft connected with and driving one of the said drawing roll shafts, a countershaft connected with and driven from the said main shaft, clutch shafts, gearing between the clutch shafts and the said countershaft, winding drum shafts carrying the said winding drums, clutches having fixed and movable clutch members of which the fixed clutch members are secured on the clutch shafts and the movable clutch members are mounted to slide on the said winding drum shafts and rotate with the same, shifting levers connected with the said movable clutch members, and means holding the shifting levers in position at the time the movable clutch members are out of engagement with the fixed clutch members.

3. In a wire drawing machine, two parallel shafts, conical drawing rolls mounted on the ends of the said shafts, stationary dies intermediate the rolls on the corresponding end of the said shafts, winding drums on which wind the drawn wires, a driven main shaft connected with and driving one of the said drawing roll shafts, a countershaft connected with and driven from the said main shaft, clutch shafts, gearing between the clutch shafts and the said countershaft, winding drum shafts carrying the said winding drums, friction clutches having fixed and movable clutch members, of which the fixed clutch members are secured on the clutch shafts and the movable clutch members are mounted to slide on the said winding drum shafts and rotate with the same, shifting levers connected with the said movable clutch members, means holding the shifting levers in position at the time the movable clutch members are out of engagement with the fixed clutch members, and springs pressing the said shifting levers to normally hold the movable clutch members yieldingly in engagement with the fixed clutch members.

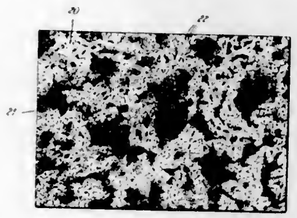
1,344,569. GAGE. JUDSON SWITZER, Portland, Oreg. Filed Apr. 10, 1919. Serial No. 289,050. 5 Claims. (Cl. 33—44.)

1. A gage comprising a slide having a scribe, means for adjusting said slide including a thumb wheel, and a casing for said slide and adjusting means having an inwardly stamped portion forming an external recess, said inwardly



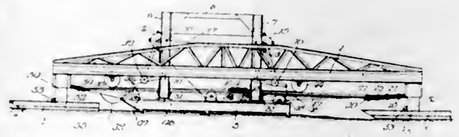
stamped portion having a slot through which the peripheral portion of the wheel extends into said external recess.

1,344,570. WALL-PAPER AND METHOD OF MAKING IT. JOHN JAMES WARREN, Brownville, N. Y., assignor to Harmon Paper Company, Brownville, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,804. 3 Claims. (Cl. 92—39.)



1. The method of making wall paper with a cloud effect of visionary depth, which consists in forming a base of paper stock combined with wood flour to break up the light reflecting surface of the paper, and flowing a blending stock on the surface thereof.

1,344,571. WALKING-DREDGE. VINCENT G. ANDERSON, Kenosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Filed Jan. 26, 1918. Serial No. 213,846. 10 Claims. (Cl. 180—4.)



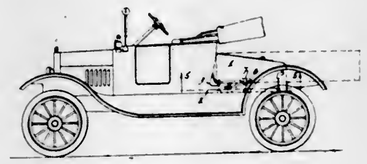
1. In a shifting apparatus for excavators or other heavy machines, the combination of a main body frame provided with means for supporting it on the ground, an auxiliary frame provided with means for supporting it on the ground, a bell-crank device pivoted on the auxiliary frame and provided with means for engaging the main body frame, means to operate said bell-crank device to lift the body frame, and to move the body frame forward when thus lifted, and means to move said auxiliary frame forward while the main body frame is standing still.

9. In a machine of the class described, having sliding shoes for the support thereof, the combination of longitudinal pivots for said shoes, and means to prevent the load strains from being imposed on said pivots.

1,344,572. DETACHABLE-BODY LOCK. WILLIAM N. BAER, White Bear, Minn. Filed June 9, 1919. Serial No. 302,961. 5 Claims. (Cl. 296—35.)

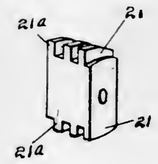
1. In a detachable body lock for an automobile, the combination with the chassis thereof having a member with

an aperture therein, of a pair of hooks adapted to be fastened to the chassis, one on each side thereof, and near the rear end thereof, and a pair of fingers adapted to be fastened to a detachable body, to engage with said hooks, and an engaging lip adapted to be carried on the bottom



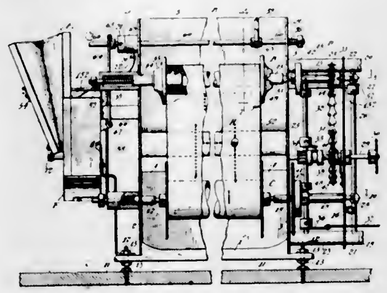
of said detachable body to register with the aperture in said chassis, and a hinge adapted to be fastened to said detachable body and having a lip adapted to engage under a portion of the chassis to prevent upward movement of the body to which the hinge is attached.

1,344,573. WRENCH. CARL C. BARNES, Portland, Oreg., assignor of one-half to Buddington W. Jones, Portland, Oreg. Filed May 15, 1918. Serial No. 234,807. 3 Claims. (Cl. 81—162.)



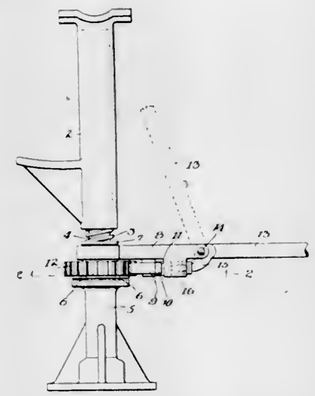
3. In an adjustable wrench, a rotatable nut; oppositely disposed series of teeth normal to the axis of the nut, thereupon; oppositely disposed untoothed portions intermediate said series of teeth; and tangential projections upon each of said teeth.

1,344,574. MUSIC-ROLL-CONTROLLING MECHANISM. WILLIAM G. BETZ, Buffalo, N. Y., assignor to Straube Piano Company, Hammond, Ind., a Corporation of Indiana. Filed Feb. 7, 1917. Serial No. 147,136. 16 Claims. (Cl. 84—136.)



1. An alinement device of the character described comprising a music spool and tracker bar, spool operated means for definitely alining the music-spool and the tracker-bar and maintaining such definite alinement during playing, and means for automatically shifting the spool longitudinally for operating said alining means.

1,344,575. JACK. EMERSON B. BIRD, Seattle, Wash. Filed Sept. 26, 1919. Serial No. 326,462. 3 Claims. (Cl. 254—98.)



1. In a jack, the combination of a base having a vertical bore, a spindle rotatably mounted in said base, a thrust bearing between said spindle and base, a sleeve adapted to be mounted on said spindle, said spindle and sleeve having co-mating threads, and means mounted on said spindle between said base and said sleeve to rotate said spindle, said rotating means comprising a ratchet attached to said spindle, a collar rotatably mounted on said spindle above said ratchet, a hinged lever having one end mounted on said collar, a double acting pawl pivoted to said lever, and a sliding element carried by said lever and operated by the hinging thereof on its pivot for throwing said pawl.

1,344,576. COVER-FASTENER. GEORGE H. BLISS, Boston, Mass., assignor to A. G. Bradish & Son, Inc., Boston, Mass., a Corporation of Massachusetts. Filed June 19, 1919. Serial No. 305,210. 4 Claims. (Cl. 217—66.)

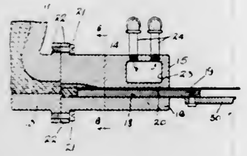


1. A cover fastener comprising an oblong rectangular strip of sheet metal, having holes near its opposite ends, nails inserted in said holes and having heads bearing on one side of the strip, and nail-confining flanges integral with the strip and bearing on the outer sides of the nail heads, the end portions of said flanges being pressed inwardly at opposite sides of the nail heads, against the body of the strip, so that the flanges are stiffened to resist force tending to bend them outward from the body, and the flange corners are seated directly on the body and are guarded by the latter.

1,344,577. METHOD OF AND APPARATUS FOR FORMING METAL STRIPS. CLAIR H. BRASTED, East Cleveland, Ohio, assignor, by mesne assignments, to Ludlow Typograph Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 13, 1918. Serial No. 253,914. 14 Claims. (Cl. 207—11.)

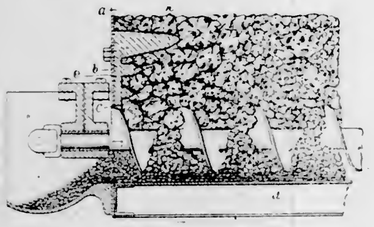
1. In apparatus for forming a strip or the like directly from molten metal, the combination with a suitable supply

of such metal; of a nozzle provided with a discharge opening of the same cross-section as the desired strip;



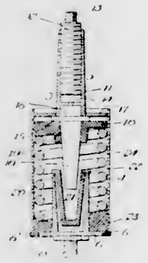
and a member partially bounding such opening and reciprocable longitudinally of the same.

1,344,578. AUTOMATIC STOKING MECHANISM. JAMES A. CAREY, New York, N. Y., assignor to Standard Stoker Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 3, 1919. Serial No. 287,279. 1 Claim. (Cl. 83—52.)



In combination, means to advance fuel from the bottom of a fuel mass in a substantially horizontal course, and abutment means for the fuel arranged over and spaced from the first means and relatively forward of the fuel, said means including projections extending rearwardly and arranged at different elevations and each upper projection extending farther rearward than those below it.

1,344,579. SPRING-WHEEL. GIACOMO CARTASSO, Oakland, Calif. Filed June 4, 1919. Serial No. 301,615. 6 Claims. (Cl. 152—48.)



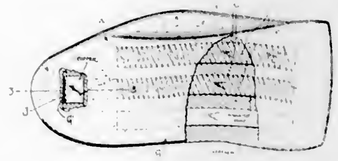
1. In a wheel, a hub, a rim, and spokes, each of said spokes comprising a cylinder secured to said hub and a stem secured to said rim and extending into said cylinder, an elastic piston in said cylinder mounted on said stem, a coil spring between said piston and the head at the inner end of said cylinder, and a cup mounted in the cylinder into which the inner end of said stem extends.

1,344,580. COLLAR-SUPPORTER. WILLIAM H. CLOPTON, Jr., U. S. Army. Filed Sept. 18, 1919. Serial No. 324,499. 5 Claims. (Cl. 2—62.)



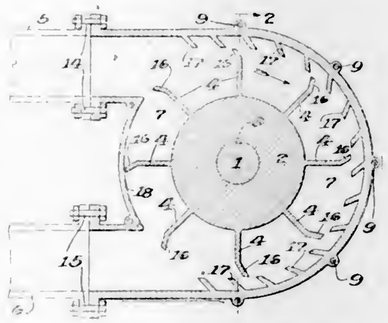
1. A collar supporter for uniform coats comprising a base plate adapted to be attached to the inner face of the neck-band of a coat, and a clip adjustable vertically on the base plate and adapted to embrace the lower edge of a collar, whereby the collar may be readily positioned to project to the desired extent above the neck band and be securely retained in its adjusted position.

1,344,581. THERMO-ELECTRIC ARCH-SUPPORT. ALBERT R. COOPER, Findlay, Ohio. Filed Aug. 22, 1919. Serial No. 319,205. 2 Claims. (Cl. 219—46.)



1. An electric foot support comprising a leather form with metallic bars seated therein and having copper wire windings about the same, copper and zinc heel plates in said form, and an absorbing material interposed between portions of the plates, parts of the latter projecting beyond the absorbent material and being in contact with each other, terminals between the plates and with which the wire windings of said bars connect.

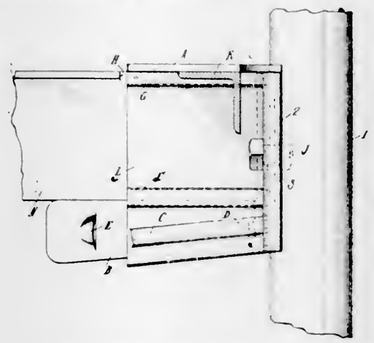
1,344,582. AUXILIARY-POWER DEVICE. JAMES COWLEY and ROBERT C. DILS, St. Louis, Mo. Filed Feb. 6, 1918. Serial No. 215,692. 1 Claim. (Cl. 137—160.)



In combination with an engine-exhaust outlet, an exhaust delivery element, a housing having an inlet and an outlet communicating with said exhaust delivery, said inlet and exhaust being located on the same wall of the housing, a shaft having connection with the engine, a

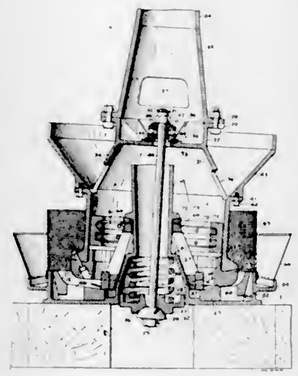
turbine in the housing and mounted on said shaft carrying radial peripherally disposed blades having their outer portions disposed rearwardly, the opposite sides of the housing having bearing bosses on their inner sides for spacing the blades slightly from the adjacent portions of said housing sides, forwardly-disposed oblique blades carried on the rear wall of the housing starting at a point in proximity to the inlet and finishing at a point in proximity to said outlet and adapted for coöperation with the blades of the turbine for insuring passage of the exhaust gases in but one direction, the forward wall of the housing being arranged rearwardly of the outlet and affording only sufficient clearance for the blades on the turbine to allow free rotation of the latter, whereby to prevent return of exhaust gases and the resultant back pressure on the engine.

1,344,583. PRESSED-STEEL METAL BED-LOCK. HENRY DIERKER, Glenfield, Pa. Filed Dec. 15, 1919. Serial No. 344,837. 3 Claims. (Cl. 5—55.)



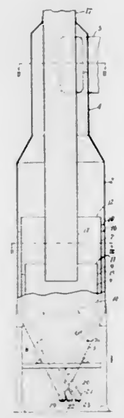
1. A bed comprising a pair of angle irons with one side of said irons cut away at each end, bed posts, brackets mounted on said bed posts, said brackets being open at the end opposed from the bed post into a recess forming an inner contour substantially to the contour of the side of the said cutaway angle iron remaining as being cut away and provided with an additional recess arranged parallel with the first recess for receiving a wedge for locking said rail.

1,344,584. GYRATORY CRUSHING-MILL. WILLIAM W. GIBSON, San Francisco, Calif. Filed Feb. 18, 1918. Serial No. 217,750. 5 Claims. (Cl. 83—10.)



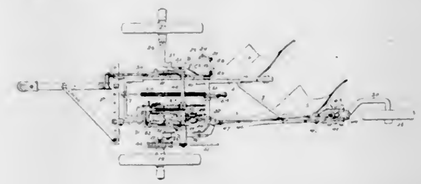
1. In a gyratory crushing mill, the combination of a die, a muller, means for gyrating said muller, a spring for pressing the muller toward the die, a centrally located tension device for receiving said pressure from said spring, and rollers for receiving said pressure from said device and transmitting it to said muller.

1,344,585. APPARATUS FOR CLEANING GASES. GEORGE W. HEWITT, Wheeling, W. Va., and ALFRED STEINBART, Pittsburgh, Pa. Filed Sept. 8, 1919. Serial No. 322,552. 8 Claims. (Cl. 183—83.)



1. Apparatus for cleaning gases, comprising a lengthwise vertical cylindrical gas cleaning chamber, a plurality of imperforate cylindrical partitions within said cleaning chamber forming a plurality of collecting compartments therein for the centrifugally separated impurities, said compartments having bottom ends closed against communication one with another, and a gas main opening tangentially into the upper end of said gas cleaning chamber, arranged to impart a whirling motion to the incoming gases, a gas discharge main at the upper end of said cleaning chamber having a depending inlet end extending downwardly within the cleaning chamber to below the upper edge of the inner cylindrical partition in said cleaning chamber, a gravity discharge outlet on the lower end of said cleaning chamber and means for closing said discharge outlet.

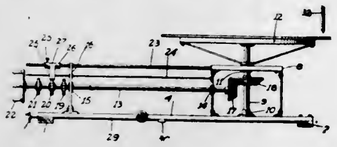
1,344,586. PLOW. EDWARD M. HEYLMAN, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Feb. 7, 1919. Serial No. 275,582. 11 Claims. (Cl. 97—55.)



1. In a plow structure, the combination with a wheeled frame and a plow base carried thereby, of power lift means coöperable with said frame and a wheel thereof, dead-center locking means for locking said frame in raised position, an operating lever, means for adjusting the power lift means to operative position, said means including a latch bar coöperable with said operating lever, means for breaking said dead-center lock including a latch bar coöperable with said operating lever, and means operable

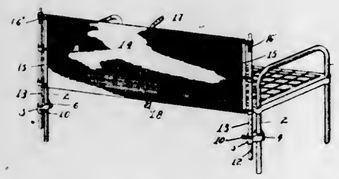
by said lever to raise and lower said latch bars alternately, whereby successive manipulations of said lever will effect the raising of the plow frame and the breaking of said dead-center lock.

1,344,587. CIRCLE-SPACING DEVICE. HARRY R. HEYMAN, Berkeley, Calif. Filed June 30, 1919. Serial No. 307,582. 6 Claims. (Cl. 164—87.)



1. In a device for dividing circles, a table, a shaft, means to enable said shaft to rotate said table, a plurality of ratchet wheels on said shaft differing respectively in number of teeth, and a pawl for selectively engaging said ratchet wheels.

1,344,588. PROTECTING SCREEN OR SHIELD. JOSEPH KOZIK, U. S. Army. Filed May 29, 1919. Serial No. 300,535. 1 Claim. (Cl. 5—41.)



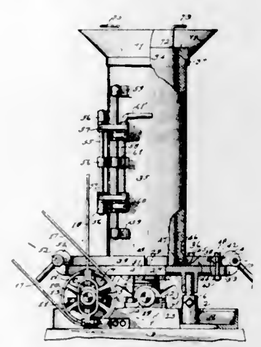
In a screen for beds, clamping members detachably secured to the legs of the bed below the frame, each of said members having vertically disposed parallel openings, a supporting bar movable through one of said openings and provided with a series of notches, spring-actuated catch members carried by the clamping members and arranged adjacent said opening for engagment with the notches of the supporting bar to retain said bar in various adjusted positions and a flexible shield detachably secured to the supporting bars in the clamping members and held in vertical alinement therewith, whereby said screen may be vertically adjusted above or below the frame of the bed.

1,344,589. CLOTHESLINE-HOOK. HARRY CRAWFORD LAFFERTY, New York, N. Y. Filed Mar. 2, 1920. Serial No. 362,647. 4 Claims. (Cl. 24—129.)



4. In a clothesline hook, a plate, a plurality of screws secured to a fixed object, the heads of said screws being spaced apart from the surface of said object, a plurality of key hole slots formed in said plate and adapted to register with and engage the heads of said screws so as to detachably secure said plate to said fixed object, a transverse arm formed on said plate, said transverse arm being formed on the end opposite the plate into a V-shaped fork, a notch formed in said transverse arm, an arcuate catch pivotally mounted on said fork adapted to prevent the accidental removal of said rope from said fork, and one or more hooks formed on said plate adapted to receive return runs of said rope from a distant object.

1,344,590. CONCRETE-PIPE-MAKING MACHINE. GEORGE CUSHING MARTIN, Los Angeles, Calif. Filed Aug. 28, 1918. Serial No. 251,990. 5 Claims. (Cl. 25—30.)



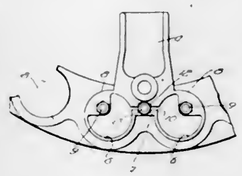
1. In a pipe forming machine, a base, a vibrating table supported thereabove, means on said base for vibrating said table, a pipe mold carried by said table, a pair of semi-annular locking elements adjustably supported on said table, and a pair of semi-annular locking members engaging the lower end of said mold and held in engagement therewith by means of said first mentioned locking elements, for holding said mold in operative position, said last mentioned members being capable of removal for the substitution of other such members for accommodating the machine to molds of different diameter.

1,344,591. INCUBATOR. FRED WILLIAM MUELLER, California, Mo. Filed June 5, 1919. Serial No. 302,079. 2 Claims. (Cl. 119—39.)



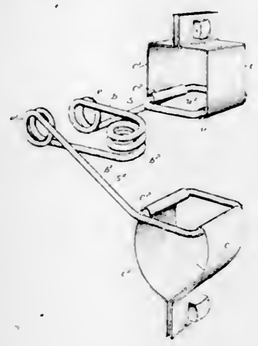
1. In an incubator casing, a drum in the lower part thereof, one end of drum being higher than the other, an outlet in one end of drum passing through wall of casing; a lamp so placed that the chimney opens into a cup built into the drum, air inlets around cup that chimney fits into in bottom of casing and around the drum outlet; a distributer made of cloth on a light frame spaced above the drum, contacting with the walls of casing on all sides except one, being spaced from wall of casing at one end and sloping from last named end down to other end, placed so that end of distributer can be raised or lowered; an egg tray spaced above the distributer and made of heavy cardboard or equivalent material, said tray being horizontal in casing and contacting with walls of casing on all sides except one, being spaced from casing wall at one end, said space being above space between end of distributer and casing wall; with hot air outlet in end of casing wall above egg tray in end opposite last mentioned end.

1,344,592. WEAR-TAKE-UP FOR SLIDES. PETER W. MURPHY, Chicago, Ill., assignor to Murphy Engineering Company, Chicago, Ill., a Corporation of Michigan. Filed Feb. 20, 1919. Serial No. 278,261. 12 Claims. (Cl. 74—85.)



1. A cam slide comprising a pair of cylindrical hollow bodies secured in spaced relation by a longitudinal split rib, means for uniformly expanding the rib throughout its length, together with the adjacent portions of the bodies and cam engaging means on the bodies.

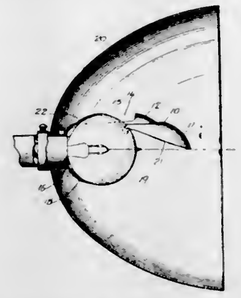
1,344,593. SHOCK-ABSORBER. MOSES H. NABER, Chicago, Ill. Filed Jan. 25, 1918. Serial No. 213,803. Renewed Apr. 14, 1920. Serial No. 373,934. 2 Claims. (Cl. 267—26.)



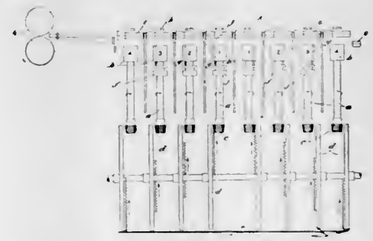
1. A shock-absorber for automobiles comprising a spring composed of a length of wire having an attaching wing at each end formed of parallel strands, arms extending diagonally from the outer ends of the wings in different vertical planes, vertical coils at the ends of the arms in the same horizontal plane and wound up when the wings are separated, and an integral pair of legs projecting reversely from the opposite portions of the coils and united in a suitably disposed bend, and clips mounted on the strands of each wing.

1,344,594. SHIELD FOR HEADLIGHTS. FRANK J. NEWTON, Sandwich, Ill., assignor of one-half to Erwin E. Wallace, Sandwich, Ill. Filed Jan. 17, 1918. Serial No. 212,162. 8 Claims. (Cl. 240—48.6.)

7. A shield for head-light bulbs comprising a flat body portion horizontally positioned above the bulb and having an inclined apron at its forward end extending downwardly substantially to the center of the bulb and spring fingers extending from the body portion and adapted to grasp the bulb to hold the shield.

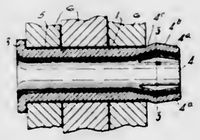


1,344,595. WIRE-FABRIC MACHINE. PETTIS A. REID, WALTER V. REID, and JAMES KELLEY, Richmond, Ind.; said Walter V. Reid and said James Kelley assignors to said Pettis A. Reid. Filed Feb. 15, 1910. Serial No. 543,990. 6 Claims. (Cl. 140—12.)



1. A wire fence machine, including two sets or series of wire-connecting devices, the devices of the two sets or series arranged in line with one another, means for feeding a stay-wire adapted to be operated on by all of said devices, means for severing a stay-length from said stay-wire, and a cutter for severing the stay-length into two stay-sections.

1,344,596. BRAKE-PIN. FREDERIC SCHAEFER, Pittsburgh, Pa. Filed Aug. 19, 1915. Serial No. 46,316. 3 Claims. (Cl. 85—5.)

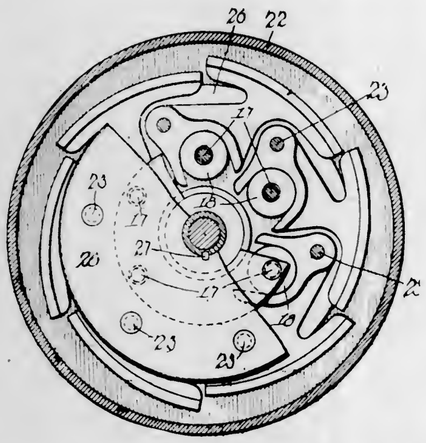


1. A pin of the class described, comprising a tubular member having an annular rib or flange at one end and at its opposite end provided with longitudinally extending tongues bent outwardly beyond the periphery of the tube, said tongues being of thinner metal than the tube walls.

1,344,597. CLUTCH. RICHARD SCHMITZ, Chicago, Ill. Filed Feb. 7, 1919. Serial No. 275,492. 20 Claims. (Cl. 192—5.)

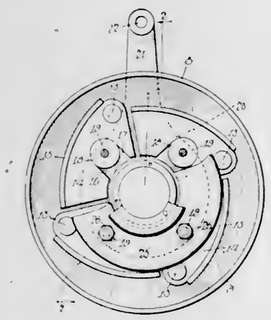
19. In a clutch, a driving member, a driven member, friction members adapted to operate in conjunction with

the driven member to bear against the same, rotatable devices engaging the friction members for moving the friction members toward or away from the driven member,



and means movable in an arc with respect to the axis of the driving member for rotatably supporting and carrying the said rotatable devices in said arc.

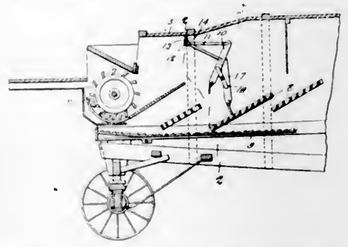
1,344,598. BRAKE. RICHARD SCHMITZ, Chicago, Ill. Filed Feb. 7, 1919. Serial No. 275,494. 6 Claims. (Cl. 74—13.)



1. The combination with a brake drum of a plurality of frictional devices contained therein, a plate, pivots carried by the plate in which the friction devices are oscillatable, rotatable means engaging each friction device at one side of its pivot to cause said frictional devices to move outwardly when said means are bodily moved in one direction to retract them when said means are bodily moved in the opposite direction, and means rotatable about the axis of the brake drum for carrying the otatable means, and means for anchoring the plate stationary with relation to the brake drum.

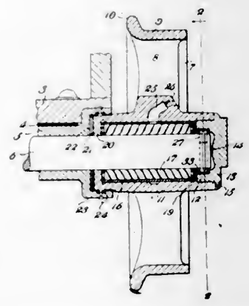
1,344,599. THRESHING-MACHINE. OTTO STEINBORN, Arlington, Minn. Filed Mar. 4, 1920. Serial No. 363,319. 2 Claims. (Cl. 130—22.)

1. In a threshing machine, a body, inclined racks supported within the body, forked arms coöperating with the inclined grates, a power shaft having connection with the forked arms, an adjustable arm having a plurality of cranks formed thereon, the throws of the crank being in the same direction, connecting links for connecting the cranks and forked arms, a handle formed at one end of



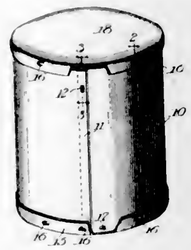
the adjustable arm for moving the forked arms within the body, and means for securing the adjustable arm in its positions of adjustment.

1,344,600. WHEEL CONSTRUCTION. RAY D. STREBY, Canal Fulton, Ohio, assignor to The Fulton-Kenova Mine Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,798. 10 Claims. Cl. 295—50.)



1. In a structure of the character described, an axle, a boxing, a wheel having a hub surrounding said axle and bearing against said boxing and a locker pin formed of two separable sections located entirely through said axle.

1,344,601. COLLAPSIBLE CONTAINER. JOHN A. WALGREN, Decatur, Ill. Filed Aug. 15, 1917. Serial No. 186,251. 5 Claims. (Cl. 220—8.)

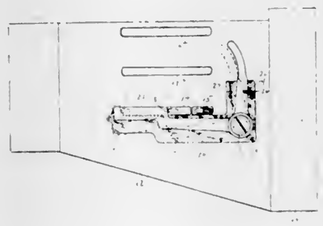


3. A knock-down shipping container comprising a slightly tapered sheet metal tubular body portion, having over-lapping edges and ends of different widths, and readily removable covers for the ends, of widths corresponding with the end widths of the body portion, so as to nest when removed, said tapered body portion having a longitudinal locked joint construction at its over-lapped edges whereby it may be arranged flat, or a plurality may be telescoped in a knock-down condition of the container.

4. A knock-down shipping container comprising a slightly tapered sheet metal tubular body portion having over-lapping edges one of which has a slot and the other of which has a tongue adapted to engage the slot to hold the edges in over-lapped relation, locking elements formed along the end edges of the body portion, a convex top closure and a concave bottom closure for the container, said closures being of widths corresponding to their respective ends of the body and means on said closures adapted to engage said locking elements to detachably secure the closures to the body portion.

5. A knock-down shipping container comprising a slightly tapered sheet metal tubular body portion having over-lapping edges one of which has a slot and the other of which has a tongue adapted to engage the slot to hold the edges in over-lapped relation, locking elements formed along the end edges of the body portion, a convex top closure and a concave bottom closure for the container, said closures being of widths corresponding to their respective ends of the body, and spring clips on said closures adapted to engage said locking elements to detachably secure the closures to the body portion.

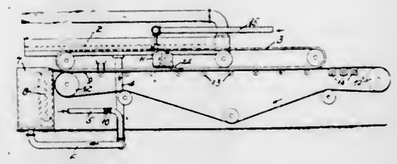
1,344,602. CLUTCH-LEVER STOP FOR MOTOR-VEHICLES. STEWART G. WARNER, Lynn, Mass. Filed Apr. 11, 1919. Serial No. 289,251. 1 Claim. (Cl. 74—81.)



The herein-described self-contained motor vehicle attachment comprising a base plate formed to be seated on the upper surface of a footboard adjacent to the clutch lever which projects through said footboard, the base plate being adapted for attachment to the footboard, a bell-crank-lever having a stop arm and a pedal arm, said stop arm being provided with a stop shoulder and with a longitudinal edge face extending from the said shoulder to the outer end of the arm, and a spring engaged with the base plate and bell-crank lever, and normally holding said shoulder in the path of the clutch lever, the stop shoulder being arranged to automatically arrest the clutch lever in its neutral position, and the said edge face being arranged to coöperate with the clutch lever, when the latter is in its low speed position, in holding the stop shoulder out of the path of the clutch lever and the spring in readiness to automatically return the stop shoulder to said path when the clutch lever moves toward its high speed position.

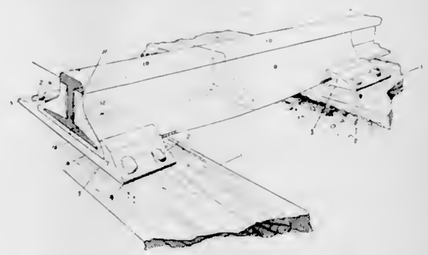
1,344,603. PAPER-MAKING APPARATUS. JOHN JAMES WARREN, Brownville, N. Y., assignor to Harmon Paper Company, Brownville, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,805. 2 Claims. (Cl. 92—44.)

1. In paper making apparatus, the combination with means for forming a paper base, of means for applying a coating thereto comprising a flow box having a plurality of baffles, one of which is adjustable to vary the thickness of the layer of coating material issuing from the flow box,



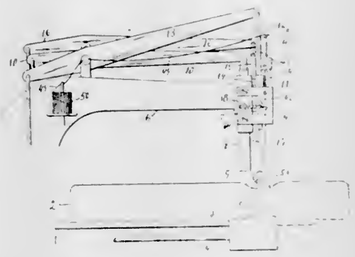
and an apron having a curved surface to which the paper base at the point of application of the coating material is substantially tangential.

1,344,604. RAIL-JOINT. ALVEN L. WARTMAN, Oakland, Calif. Filed June 12, 1918. Serial No. 239,655. 3 Claims. (Cl. 238—188.)



1. A rail joint of the character described comprising keeper plates having grooves to receive the rail flanges, said plates having pins positioned to pass through the bolt holes of the rails each keeper plate having recesses to receive the pins of the other plate, tie plates engaging the keeper plates, and means for securing the tie plates against movement, the grooves of the tie plates and the complemental portions of the keeper plates having interengaging serrations.

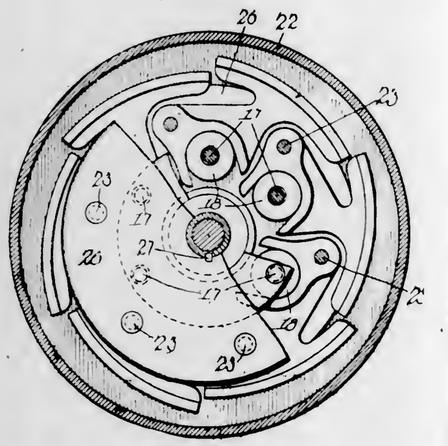
1,344,605. MATTRESS-TUFTING MACHINE. JOSEPH W. BOWERSOX, Louisville, Ky., assignor of one-half to Albert W. Moore, Pittsburgh, Pa. Filed Apr. 7, 1919. Serial No. 288,009. 7 Claims. (Cl. 112—3.)



3. In a mattress tufting machine, in combination with elements adapted to pass the parallel spaced branches of a looped thread through a mattress and knot the protruding ends thereof, means for drawing the knot within the mattress.

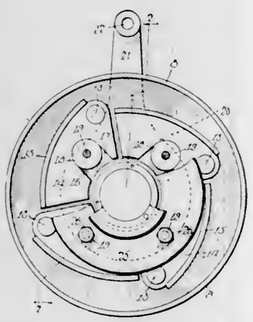
7. A gripper comprising a base, a wall perpendicular to said base, a bridge extended from said wall, said bridge and the base having alined perforations, a stem slidably positioned in said perforations, pressure disks loosely po-

the driven member to bear against the same, rotatable devices engaging the friction members for moving the friction members toward or away from the driven member,



and means movable in an arc with respect to the axis of the driving member for rotatably supporting and carrying the said rotatable devices in said arc.

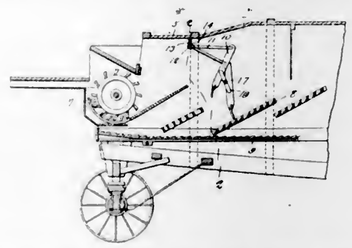
1,344,598. BRAKE. RICHARD SCHMITZ, Chicago, Ill. Filed Feb. 7, 1919. Serial No. 275,494. 6 Claims. (Cl. 74—13.)



1. The combination with a brake drum of a plurality of frictional devices contained therein, a plate, pivots carried by the plate in which the friction devices are oscillatable, rotatable means engaging each friction device at one side of its pivot to cause said frictional devices to move outwardly when said means are bodily moved in one direction to retract them when said means are bodily moved in the opposite direction, and means rotatable about the axis of the brake drum for carrying the otatable means, and means for anchoring the plate stationary with relation to the brake drum.

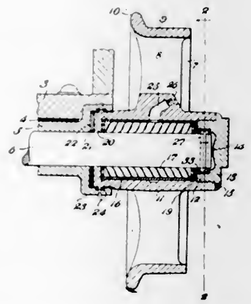
1,344,599. THRESHING-MACHINE. OTTO STEINBORN, Arlington, Minn. Filed Mar. 4, 1920. Serial No. 363,319. 2 Claims. (Cl. 130—22.)

1. In a threshing machine, a body, inclined racks supported within the body, forked arms coöperating with the inclined grates, a power shaft having connection with the forked arms, an adjustable arm having a plurality of cranks formed thereon, the throws of the crank being in the same direction, connecting links for connecting the cranks and forked arms, a handle formed at one end of



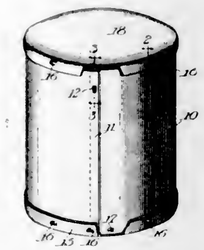
the adjustable arm for moving the forked arms within the body, and means for securing the adjustable arm in its positions of adjustment.

1,344,600. WHEEL CONSTRUCTION. RAY D. STREBY, Canal Fulton, Ohio, assignor to The Fulton-Kenova Mine Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,798. 10 Claims. Cl. 295—50.)



1. In a structure of the character described, an axle, a boxing, a wheel having a hub surrounding said axle and bearing against said boxing and a locker pin formed of two separable sections located entirely through said axle.

1,344,601. COLLAPSIBLE CONTAINER. JOHN A. WALGREN, Decatur, Ill. Filed Aug. 15, 1917. Serial No. 186,251. 5 Claims. (Cl. 220—8.)



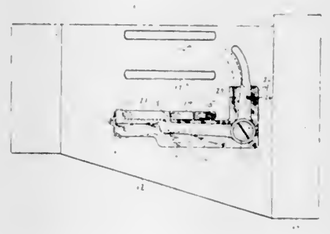
3. A knock-down shipping container comprising a slightly tapered sheet metal tubular body portion, having over-lapping edges and ends of different widths, and readily removable covers for the ends, of widths corresponding with the end widths of the body portion, so as to nest when removed, said tapered body portion having a longitudinal locked joint construction at its over-lapped

edges whereby it may be arranged flat, or a plurality may be telescoped in a knock-down condition of the container.

4. A knock-down shipping container comprising a slightly tapered sheet metal tubular body portion having over-lapping edges one of which has a slot and the other of which has a tongue adapted to engage the slot to hold the edges in over-lapped relation, locking elements formed along the end edges of the body portion, a convex top closure and a concave bottom closure for the container, said closures being of widths corresponding to their respective ends of the body and means on said closures adapted to engage said locking elements to detachably secure the closures to the body portion.

5. A knock-down shipping container comprising a slightly tapered sheet metal tubular body portion having over-lapping edges one of which has a slot and the other of which has a tongue adapted to engage the slot to hold the edges in over-lapped relation, locking elements formed along the end edges of the body portion, a convex top closure and a concave bottom closure for the container, said closures being of widths corresponding to their respective ends of the body, and spring clips on said closures adapted to engage said locking elements to detachably secure the closures to the body portion.

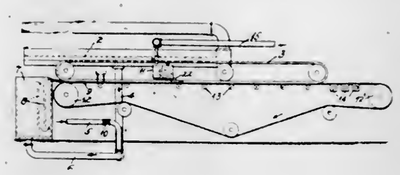
1,344,602. CLUTCH-LEVER STOP FOR MOTOR-VEHICLES. STEWART G. WARNER, Lynn, Mass. Filed Apr. 11, 1919. Serial No. 289,251. 1 Claim. (Cl. 74—81.)



The herein-described self-contained motor vehicle attachment comprising a base plate formed to be seated on the upper surface of a footboard adjacent to the clutch lever which projects through said footboard, the base plate being adapted for attachment to the footboard, a bell-crank-lever having a stop arm and a pedal arm, said stop arm being provided with a stop shoulder and with a longitudinal edge face extending from the said shoulder to the outer end of the arm, and a spring engaged with the base plate and bell-crank lever, and normally holding said shoulder in the path of the clutch lever, the stop shoulder being arranged to automatically arrest the clutch lever in its neutral position, and the said edge face being arranged to coöperate with the clutch lever, when the latter is in its low speed position, in holding the stop shoulder out of the path of the clutch lever and the spring in readiness to automatically return the stop shoulder to said path when the clutch lever moves toward its high speed position.

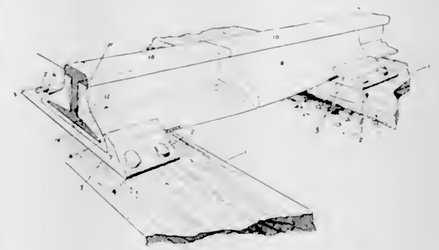
1,344,603. PAPER-MAKING APPARATUS. JOHN JAMES WARREN, Brownville, N. Y., assignor to Harmon Paper Company, Brownville, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,805. 2 Claims. (Cl. 92—44.)

1. In paper making apparatus, the combination with means for forming a paper base, of means for applying a coating thereto comprising a flow box having a plurality of baffles, one of which is adjustable to vary the thickness of the layer of coating material issuing from the flow box,



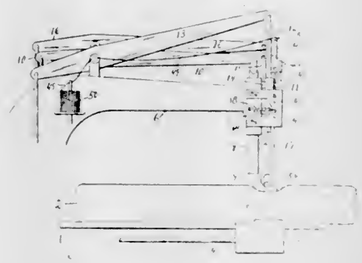
and an apron having a curved surface to which the paper base at the point of application of the coating material is substantially tangential.

1,344,604. RAIL-JOINT. ALVEN L. WARTMAN, Oakland, Calif. Filed June 12, 1918. Serial No. 239,655. 3 Claims. (Cl. 238—188.)



1. A rail joint of the character described comprising keeper plates having grooves to receive the rail flanges, said plates having pins positioned to pass through the bolt holes of the rails each keeper plate having recesses to receive the pins of the other plate, tie plates engaging the keeper plates, and means for securing the tie plates against movement, the grooves of the tie plates and the complemental portions of the keeper plates having interengaging serrations.

1,344,605. MATTRESS-TUFTING MACHINE. JOSEPH W. BOWERSON, Louisville, Ky., assignor of one-half to Albert W. Moore, Pittsburgh, Pa. Filed Apr. 7, 1919. Serial No. 288,009. 7 Claims. (Cl. 112—3.)

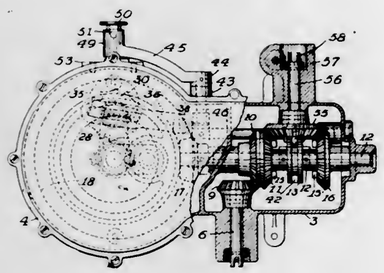


3. In a mattress tufting machine, in combination with elements adapted to pass the parallel spaced branches of a looped thread through a mattress and knot the protruding ends thereof, means for drawing the knot within the mattress.

7. A gripper comprising a base, a wall perpendicular to said base, a bridge extended from said wall, said bridge and the base having alined perforations, a stem slidably positioned in said perforations, pressure disks loosely po-

sitioned on said stem, a collar on the stem normally bearing against the inner side of the bridge, a coil spring disposed about the stem and bearing respectively against said collar and the outer disk, and a lever, one end of which bears upon the end of the stem and a roller on the other adapted to contact with an actuating cam.

1,344,606. REVERSING MECHANISM. FRED W. WAPPAT, Pittsburgh, Pa. Filed Mar. 29, 1918. Serial No. 225,423. 10 Claims. (Cl. 74—59.)



1. The combination with a power shaft, of a reversing clutch thereon, oppositely rotating means arranged to be alternately clutched to said power shaft, and means to throw said clutch comprising a shaft driven by the power shaft, a weighted arm idly mounted on the driven shaft, a pin carried by the arm, a star wheel mounted on the pin, a lug on the driven shaft adapted to engage and move the star wheel a part of a rotation at each rotation of the driven shaft, a lug on the arm adapted to engage a coöperating lug on the star wheel at each revolution thereof whereby to lock the star wheel to the arm and cause the arm to be driven, and a shaft connected to the arm at one end and to the reversing clutch at the other, whereby when the arm is driven the clutch is reversed.

1,344,607. MANUFACTURE OF THREAD-GAGES. JOHN SAMOTEJ, New York, N. Y., assignor of one-half to Witold Samotej, Brooklyn, N. Y. Filed May 15, 1918. Serial No. 234,596. 8 Claims. (Cl. 10—1.)

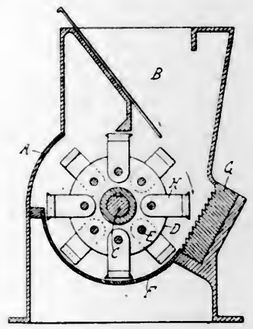


2. In a device of the class described a rotatable shaft provided with means for holding and driving the work, a master gage thereon, a thread following member engaging the threads of said gage, means for turning said shaft, and a tool adapted to operate upon said work as said shaft rotates, said following member of comparatively soft material.

7. The method of producing standard gages consisting in first producing a master gage, cutting another gage with the same thread, rotating both gages about the same axis, engaging said master gage in such a manner that either the engaging member or said master gage shift longitudinally, and cutting the other gage in such a manner that said other gage or its cutter move longitudinally simultaneously and proportionately with the movement of said master gage or its engaging member, said master gage unhardened and said engaging member of relatively soft material.

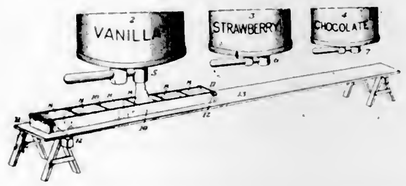
REISSUES.

14,886. REDUCING-MILL. EDWARD B. CAMPBELL, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 29, 1919. Serial No. 348,184. Original No. 1,315,281, dated Sept. 9, 1919, Serial No. 276,166, filed Feb. 10, 1919. 8 Claims. (Cl. 83—11.)



1. In a machine of the character described; a pivotal slicing hammer, consisting of a flat bar, bent so as to form a double flat top and double shank portions, said top extending laterally beyond said shank and having its upper portion beveled and extending in front of its lower portion on both front and rear forming cutting edges thereon, said shank having an opening therein.

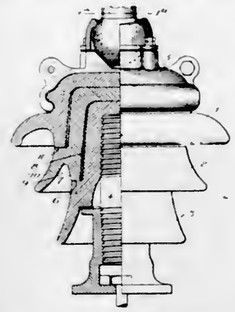
14,887. PACKAGING ICE-CREAM. JOHN B. DALTON, Pittsburgh, Pa. Filed Jan. 12, 1920. Serial No. 351,054. Original No. 1,313,793, dated Aug. 19, 1919, Serial No. 282,371, filed Mar. 13, 1919. 3 Claims. (Cl. 107—54.)



1. The method of packaging ice cream in merchantable bricks for delivery to the ultimate consumer, which consists in flowing without subjecting to pressure, ice cream in the semi-liquid condition as drawn off from a so-called "freezer" into water-proof paper boxes of a capacity suitable for domestic consumption, placing water-proof paper covers on the packages so as to entirely surround and seal the ice cream in the boxes, and then placing the boxes in a refrigerating room and there freezing the semi-liquid ice cream to a hardened condition while so inclosed in the paper boxes, said boxes forming the sole supporting means for the ice cream during the said freezing thereof, substantially as described.

14,888. INSULATOR. WALTER T. GODDARD, Hamilton, Ontario, Canada, assignor to The Locke Insulator Mfg. Co., Victor, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,688. Original No. 1,311,067, dated July 22, 1919. Serial No. 102,288, filed June 7, 1916. 5 Claims. (Cl. 173—318.)

4. An insulator comprising a plurality of hollow insulating sections closed at their upper ends and nested one within the other, one of said sections being intermediate of others, the intermediate section involving a body portion and a skirt portion connected thereto between the ends thereof, the outer faces of the skirt portion and of the body portion which extends below the juncture of the



skirt and body portions forming continuations of the adjacent outer faces of the sections next above and below the said intermediate section, whereby the joints of the several sections present a continuous and unobstructed surface free from acute angular changes in direction.

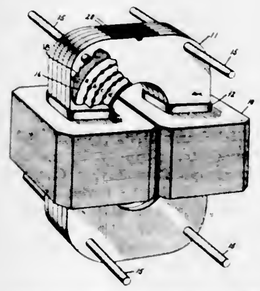
14,889. MANUFACTURE OF ALCOHOL-REDUCED BEER. HERMAN HEUSER, Evanston, Ill. Filed July 3, 1919. Serial No. 308,658. Original No. 1,302,551, dated May 6, 1919, Serial No. 260,952, filed Nov. 4, 1918. 6 Claims. (Cl. 195—1.)

1. In the manufacture of a low alcoholic beverage the process which consists in producing a yeast fermentation in an alcohol-reduced fermented beverage without carbonating the beverage, and then artificially carbonating the beverage.

14,890. METHOD OF TREATING POLYSULFID SOLUTIONS. EDWARD C. HOLTON, Olmsted Falls, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 343,092. Original No. 1,254,908, dated Jan. 29, 1918, Serial No. 64,477, filed Dec. 1, 1915. 12 Claims. (Cl. 167—6.)

1. An insecticide comprising essentially dry calcium polysulfid containing a much smaller percentage of a substance formed by the combination of a water-soluble carbohydrate and a polysulfid of an alkaline earth metal.

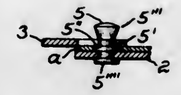
14,891. HIGH-VOLTAGE TRANSFORMER. SVEND E. JOHANNESEN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 18, 1920. Serial No. 382,694. Original No. 1,337,915, dated Apr. 20, 1920, Serial No. 244,836, filed July 15, 1918. 21 Claims. (Cl. 175—356.)



6. In a transformer, the combination with a shell type core, of a coil structure composed of a plurality of units

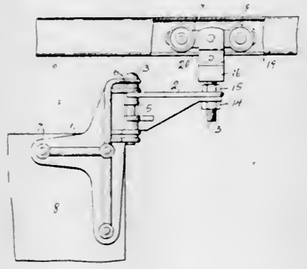
comprising windings and an insulating structure, supporting bolts passing through said coil structure, and means for securing said coil units along said bolts in predetermined spaced relation.

14,892. CORSET-STEEL. AUGUSTE J. LECOUTRE, Worcester, Mass, assignor to Royal Worcester Corset Co., Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 23, 1919, Serial No. 332,835. Original No. 1,244,060, dated Oct. 23, 1919, Serial No. 161,597, filed Apr. 12, 1917. 6 Claims. (Cl. 24—222.)



1. In a corset fastening, the combination with an eye steel provided with slotted eye members, of a steel stud member provided with studs each having a conical head of substantial length tapering toward the base of the stud, and each having a straight or cylindrical neck, the latter of a length, when said steel member is covered with cloth, approximately equal to the thickness of the eye members.

14,893. DOOR-HANGER. GEORGE M. PIPER, Cedar Falls, Iowa, assignor, by mesne assignments, to Sharon Hardware Manufacturing Company, Sharon, Pa., a Corporation of Pennsylvania. Filed Sept. 21, 1918. Serial No. 255,167. Original No. 1,265,952, dated May 14, 1918, Serial No. 177,962, filed June 30, 1917. 5 Claims. (Cl. 20—20.)



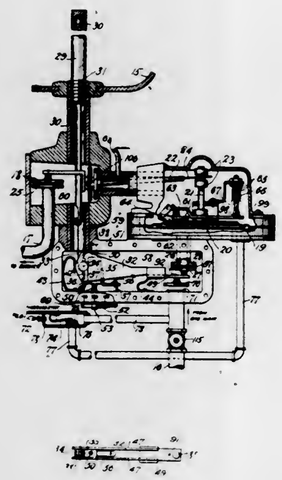
3. In a door structure, the combination of a straigh track rigidly mounted parallel to the door opening, a plurality of hingedly connected doors the outer one of which is hinged at one side of said door opening, a hanger mounted to travel on said track, and a horizontally swinging member extending between said door hanger and the inner door and pivotally connected to both in manner permitting said doors to fold back substantially parallel to each other and to said track.

14,894. FUEL-REGULATOR. HENRY E. REEVE, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,554. Original No. 1,238,940, dated Sept. 4, 1917, Serial No. 747,648, filed Feb. 11, 1913. 37 Claims. (Cl. 236—80.) Division A.

4. In a gas regulating device, a main gas valve, a diaphragm mechanically connected with said valve and having a gas passage therein, a valve for said passage at one side of said diaphragm and carried by said diaphragm and a heat operated auxiliary valve for controlling the flow of gas to the opposite side of said diaphragm.

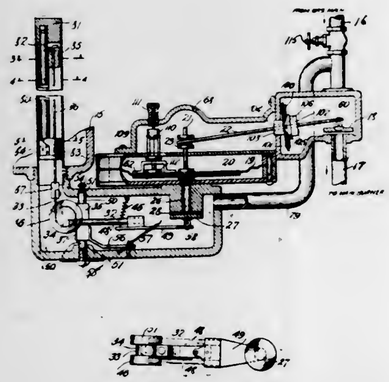
7. In a water heater, a reservoir, a main gas burner for heating the same, gas actuated means controlling said main burner, thermostatic means subjected to the temperature

of the water in the reservoir for controlling the said gas actuated means, a pilot for the main burner and thermo-



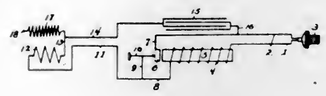
static means subjected to the heat of the pilot for controlling the flow of gas to the gas actuated means which controls the main burner.

14,895. FUEL-REGULATOR. HENRY E. REEVE, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,555. Original No. 1,238,940, dated Sept. 4, 1917, Serial No. 747,648, filed Feb. 11, 1913. 10 Claims. (Cl. 236—80.) Division B.



9. In a device of the character described, a support, a lever embracing said support, means operated by said lever, means for preventing rotation of said support and said lever, a roller carried by said lever, a flexible tape connecting said support and said roller, a thermostatic element, and a flexible tape connecting said thermostatic element with said roller, and means for adjusting said support, said lever, and said roller simultaneously.

14,896. HIGH-TENSION DISCHARGE APPARATUS. GEORGE D. ROGERS, Cleveland, Ohio. Filed Feb. 3, 1920. Serial No. 356,049. Original No. 1,092,398, dated Apr. 7, 1914, Serial No. 770,903, filed May 31, 1913. 3 Claims. (Cl. 250—36.)



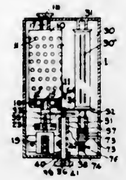
1. In a high tension discharge apparatus the combination with a main circuit provided with means for connection to a supply current and including an induction coil and a circuit controller, of a condenser connected to the main circuit at one side of said circuit controller and a high frequency coil the primary winding of which is connected to the main circuit at the other side of the circuit controller and to the condenser, the secondary winding of said high frequency coil having one end connected to the primary winding thereof and terminating in a single end for connection to a thertpeutical instrument substantially as described.

14,897. MEANS FOR EXTINGUISHING ARCS. EDMUND O. SCHWEITZER, Chicago, and NICHOLAS J. CONRAD, Wilmette, Ill., assignors to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1920. Serial No. 374,489. Original No. 1,319,907, dated Oct. 28, 1919, Serial No. 120,625, filed Sept. 18, 1916. 9 Claims. (Cl. 200—120.)

1. In combination, a closed container, comprising a sleeve of porous insulating material impregnated with a condensation product of a phenol and formalderyde, said container having metallic current conducting terminals forming a part of the container, a fusible element connected between said terminals and an arc extinguishing liquid inclosed by said container.

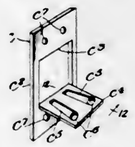
14,898. CLOTH-MEASURING MACHINE. LEWIS L. SCOTT, St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company, a Corporation of Missouri. Filed Sept. 13, 1919. Serial No. 323,636. Original No. 1,303,971, dated May 20, 1919, Serial No. 145,145, filed Jan. 29, 1917. 13 Claims. (Cl. 33—133.)

1. In a measuring and computing machine the combination with a measuring roller, of a computing chart, means whereby said chart is operated from said roller, said chart having a series of computed prices for each fractional measurement, a spring for returning the chart and measuring roller to initial position, means for stopping said parts at the zero or initial position, and retarding means



including a centrifugal friction brake device, attached to the measuring roller, for regulating the speed of the return movement of said roller and connected parts.

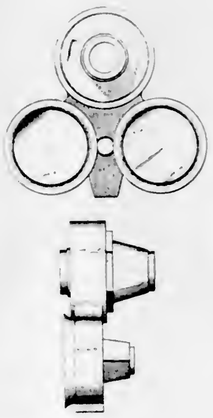
14,899. HINGE. JOSEPH SOSS, New York, N. Y. Filed Apr. 7, 1920. Serial No. 372,086. Original No. 1,335,400, dated Mar. 30, 1920, Serial No. 281,358, filed Mar. 8, 1919. 10 Claims. (Cl. 16—5.)



1. A hinge butt member comprising a plate having a central opening at the bottom of which is an inwardly directed supporting member provided in the top surface with inwardly directed and diverging grooves at the inner ends of which are apertures or recesses, said plate member being also provided at the top of said opening with inwardly directed spring devices.

DESIGNS.

55,500. COMBINED PRESSURE GAGE AND REGULATOR CASING. GEORGE ADELARD BAUDET, New York, N. Y., assignor to The Baudet Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Jan. 9, 1920. Serial No. 350,451. Term of patent 14 years.



The ornamental design for a combined pressure gage and regulator casing, as shown.

55,501. CRYSTAL COFFEE OR TEA SERVICE. HENRY CLAYTON BIETTE, Pittsburgh, Pa. Filed Dec. 5, 1919. Serial No. 342,800. Term of patent 14 years.



The ornamental design for a crystal coffee or tea service, as shown.

55,502. COMBINED MOTOR-VEHICLE RADIATOR-CAP AND TEMPERATURE-INDICATING INSTRUMENT. HARRISON HURLBERT BOYCE, Forest Hills, N. Y. Filed Mar. 15, 1920. Serial No. 366,120. Term of patent 14 years.



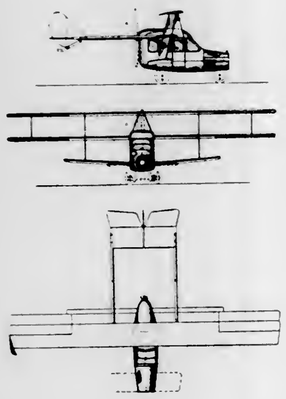
The ornamental design for a combined motor vehicle radiator cap and temperature indicating instrument, as shown.

55,503. DOLL. CATHERINE C. COOLEY, Omaha, Nebr. Filed Jan. 13, 1920. Serial No. 351,262. Term of patent 7 years.



The ornamental design for a doll, as shown.

55,504. AEROPLANE. GLENN H. CURTISS, Buffalo, N. Y. Filed Feb. 17, 1917. Serial No. 149,369. Term of patent 14 years.



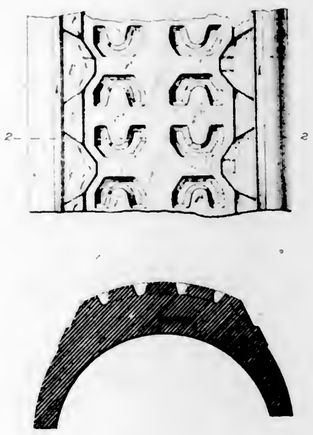
The ornamental design for an aeroplane as shown and described.

55,505. LACE. ELIZABETH ANDERSON DAVIS, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 31, 1920. Serial No. 370,353. Term of patent 3½ years.



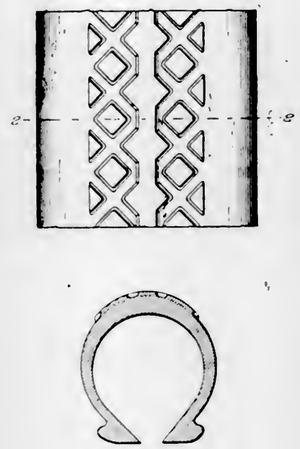
The ornamental design for lace as herein shown and described.

55,506. NON-SKID TIRE-TREAD. ELMER N. DOWNES, Charlotte, N. C., assignor to J. & D. Tire Company, Charlotte, N. C., a Corporation of Delaware. Filed Jan. 19, 1920. Serial No. 352,620. Term of patent 14 years.



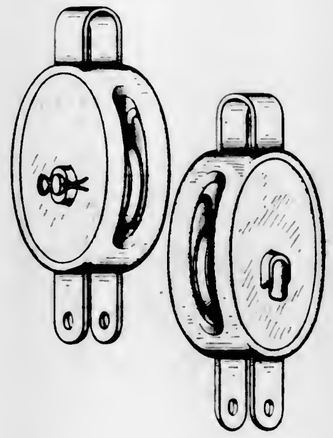
The ornamental design for a non-skid tire tread as shown.

55,507. NON-SKID TIRE. WILLIAM E. DUERSTEN, New Castle, Pa. Filed Dec. 15, 1919. Serial No. 345,148. Term of patent 14 years.



The ornamental design for a non-skid tire, as shown.

55,508. PULLEY-BLOCK. JOHN H. FLYNN, Jr., Cincinnati, Ohio. Filed Mar. 20, 1920. Serial No. 367,490. Term of patent 14 years.



The ornamental design for a pulley block as shown.

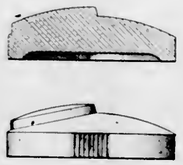
55,509. CIGAR-CUTTER. WALTER A. FRANCK, Louisville, Ky. Filed Dec. 26, 1919. Serial No. 347,600. Term of patent 14 years.



The ornamental design for a cigar cutter as shown.

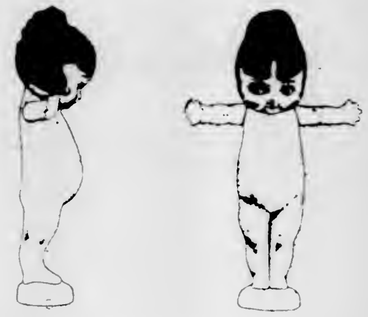
55,510. PAPER-WEIGHT. WILLIAM C. GAMBLE, Mount Vernon, N. Y., assignor to General Optical Company, a Corporation of New York. Filed Dec. 10, 1919. Serial No. 343,927. Term of patent 14 years.





The ornamenal design for a paper weight, as shown.

55,511. DOLL. GORDON F. GILLESPIE, Los Angeles, Calif. Filed Mar. 31, 1919. Serial No. 286,574. Term of patent 14 years.



The ornamental design for a doll as shown.

55,512. PRECIOUS, SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF. SAMUEL HELLER, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,881. Term of patent 14 years.





The ornamental design for a precious, semiprecious or synthetic stone, or an imitation thereof, as shown.

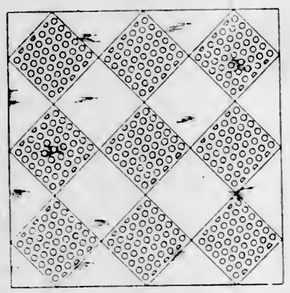
55,513. PRECIOUS, SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF. SAMUEL HELLER, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,882. Term of patent 14 years.





The ornamental design for a precious, semiprecious or synthetic stone, or an imitation thereof, as shown.

55,514. SHEET FLOOR-COVERING. ALBERT C. HEYMAN, New York, N. Y., assignor to Peerless Rubber Manufacturing Company, a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,846. Term of patent 3½ years.



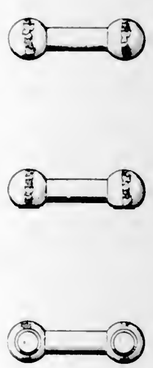
The ornamental design for a sheet floor covering as shown.

55,515. HOOK-PIN. WILLIAM A. HOUSTON, Sioux City, Iowa. Filed Feb. 16, 1920. Serial No. 359,189. Term of patent 3½ years.



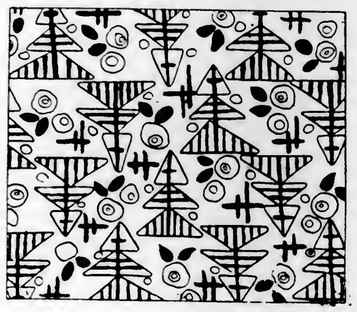
The new and original design for a hook-pin as shown.

55,516. KNIFE-REST. JAMES R. HUTHMAKER and WARREN R. LEAS, Wyoming, Pa. Filed Apr. 10, 1920. Serial No. 373,008. Term of patent 7 years.



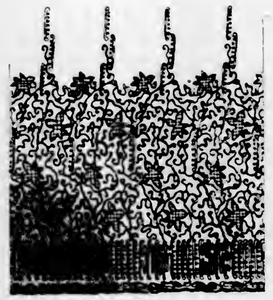
The ornamental design for a knife rest, as shown.

55,517. TEXTILE FABRIC. CLARA KATZ, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,421. Term of patent 3½ years.



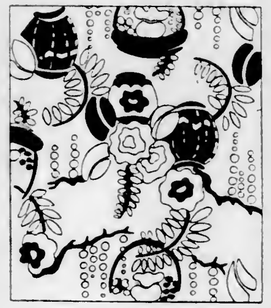
The ornamental design for a textile fabric, as shown.

55,518. LACE. THYRA O. KUMALEHTO, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 31, 1920. Serial No. 370,349. Term of patent 3½ years.



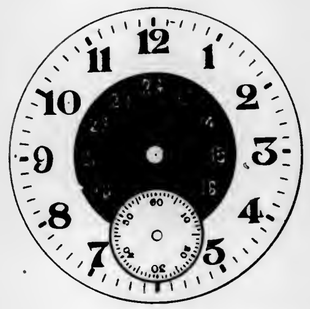
The ornamental design for lace as herein shown and described.

55,519. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,424. Term for patent 3½ years.



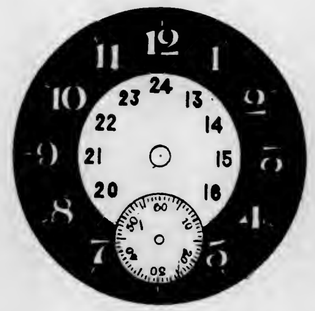
The ornamental design for a textile fabric, as shown.

55,520. TIMEPIECE-DIAL. EDWARD A. MARSH, Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1919. Serial No. 278,987. Term of patent 3½ years.



The ornamental design for a timepiece dial, as shown and described.

55,521. TIMEPIECE-DIAL. EDWARD A. MARSH, Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1919. Serial No. 278,988. Term of patent 3½ years.



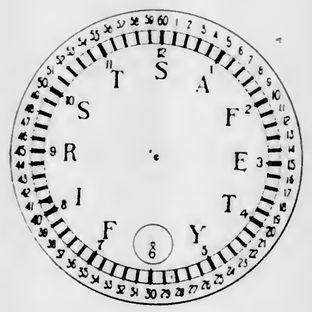
The ornamental design for a timepiece dial, as shown and described

55,522. LACE. FELIX MEYER, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 31, 1920. Serial No. 370,342. Term of patent 3½ years.



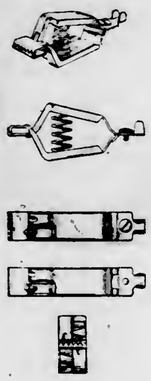
The ornamental design for lace as herein shown and described.

55,523. TIMEPIECE-DIAL. HENRY S. MONTGOMERY, Topeka, Kans. Filed Mar. 18, 1918. Serial No. 223,238. Term of patent 14 years.



The ornamental design for a timepiece dial as shown.

55,524. TEST-CLIP. RALPH S. MUELLER, Cleveland Heights, Ohio. Filed Dec. 15, 1919. Serial No. 345,141. Term of patent 14 years.



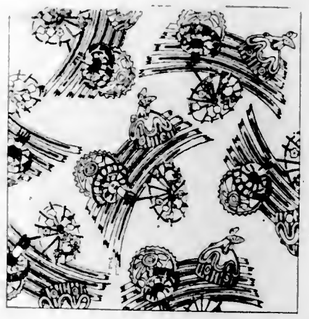
The design for a test clip substantially as shown.

55,525. STATUETTE. WALTER J. NOWAK, Gary, Ind. Filed Oct. 1, 1919. Serial No. 327,812. Term of patent 14 years.



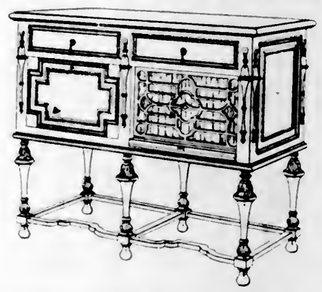
The ornamental design for a statuette, as shown.

55,526. TEXTILE FABRIC. LEON F. ORCUTT, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,420. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

55,527. DESIGN FOR A PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Apr. 10, 1919. Serial No. 289,136. Term of patent 14 years.



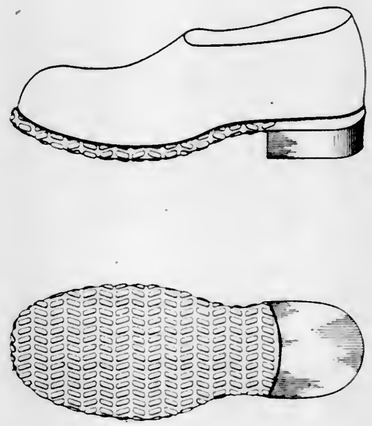
The ornamental design for a phonograph cabinet, as shown.

55,528. SOLE OF A RUBBER BOOT OR SHOE. WALTER E. PIPER, Melrose, Mass., assignor to Boston Rubber Shoe Company, a Corporation of Massachusetts. Filed Aug. 7, 1915. Serial No. 44,331. Term of patent 14 years.



The ornamental design for the sole of a rubber boot or shoe as shown.

55,529. SOLE OF A RUBBER OVERSHOE OR SIMILAR ARTICLE. WALTER E. PIPER, Melrose, Mass., assignor to Boston Rubber Shoe Company, a Corporation of Massachusetts. Filed Aug. 7, 1915. Serial No. 44,332. Term of patent 14 years.



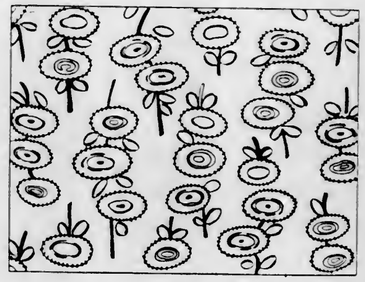
The ornamental design for the sole of a rubber overshoe or similar article.

55,530. TEXTILE FABRIC. RUBY LOUISE REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,418. Term of patent 3½ years.



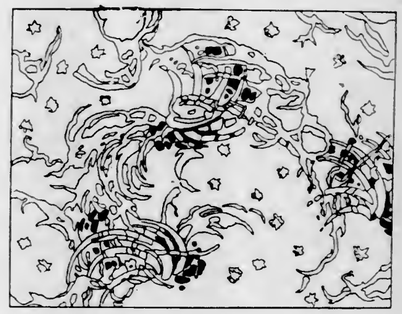
The ornamental design for a textile fabric, as shown.

55,531. TEXTILE FABRIC. RUBY LOUISE REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,419. Term of patent 3½ years.



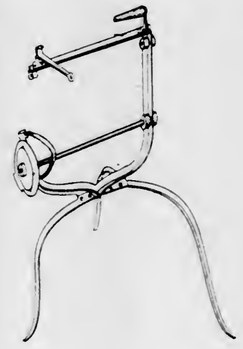
The ornamental design for a textile fabric, as shown.

55,532. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,426. Term of patent 3½ years.



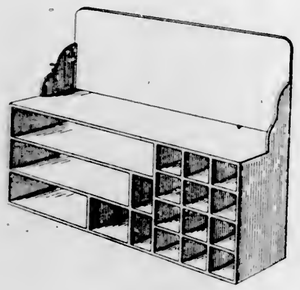
The ornamental design for a textile fabric, as shown.

55,533. BUNDLE-TIER-MACHINE FRAME. ALBERT H. SAXTON and JOSEPH J. BACHMAYER, Blissfield, Mich., assignors to National Bundle Tyer Company, Blissfield, Mich., a Corporation of Michigan. Filed Jan. 30, 1919. Serial No. 274,144. Term of patent 7 years.



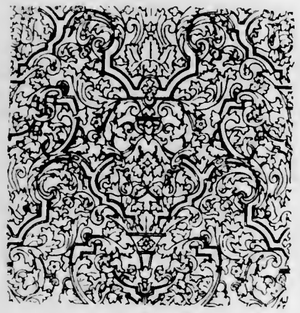
The ornamental design for a bundle tier machine frame, substantially as shown.

55,534. VENDING-CABINET. DOHERTY SHEERIN, Indianapolis, Ind. Filed Jan. 19, 1920. Serial No. 352,634. Term of patent 3½ years.



The ornamental design for a vending cabinet, as shown.

55,535. DECORATIVE PAPER. GEORGE E. SHROPSHIRE, Yonkers, N. Y., assignor to Anglo-American Pharmaceutical Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 11, 1920. Serial No. 357,818. Term of patent 7 years.



The ornamental design for a decorative paper as shown.

55,536. CANDY OR CHEWING-GUM TABLET. JAMES H. SMITH and CHARLES D. BLACKMON, Rochester, N. Y. Filed Sept. 15, 1919. Serial No. 324,046. Term of patent 14 years.



The ornamental design for a candy or chewing gum tablet, as shown.

55,537. SUPERSERVICE-FLAG. WILLIAM J. SMITH, Denver, Colo. Filed May 31, 1918. Serial No. 237,646. Term of patent 3½ years.



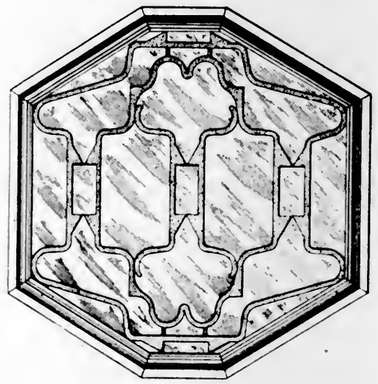
The ornamental design for a superservice flag as shown.

55,538. DRAWING INSTRUMENT. EUGENE L. SNYDER, Canton, Ohio. Filed Oct. 22, 1919. Serial No. 332,572. Term of patent 3½ years.



The ornamental design for a drawing instrument, substantially as shown.

55,539. WINDOW. JAN SOWALSKI, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,428. Term of patent 3½ years.



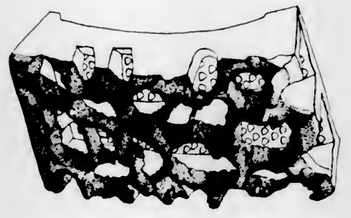
The ornamental design for a window, as shown.

55,540. KITCHEN-SPOON. GROVE S. TARBELL, Colville, Wash. Filed Feb. 5, 1920. Serial No. 356,403. Term of patent 14 years.



The ornamental design for a kitchen spoon as shown.

55,541. RADIANT FOR GAS-HEATERS. WALTER A. WILSON, Armley, Leeds, England. Filed Jan. 27, 1920. Serial No. 354,483. Term of patent 14 years.



The ornamental design for a radiant for gas heaters, substantially as shown.

55,542. ANTISEPTIC TABLET. HERMAN WIPF, Narberth, Pa., assignor to John Wyeth & Bro., Inc., Philadelphia, Pa., a Corporation. Filed Sept. 23, 1919. Serial No. 325,781. Term of patent 14 years.



The ornamental design for an antiseptic tablet, as shown.

55,543. STATUETTE. ABRAHAM J. ZIV, Chicago, Ill. Filed Aug. 8, 1919. Serial No. 316,273. Term of patent 3½ years.



The ornamental design for a statuette substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 22, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 102,327. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM WUNSCH, New York, N. Y. Filed Mar. 21, 1917.



The diamond on the white field of the star being printed in red.

Particular description of goods.—Soft Soap.

Claims use since Feb. 12, 1917.

Ser. No. 102,989. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) METALS DISINTEGRATING COMPANY, INC., New York, N. Y. Filed Apr. 14, 1917.



No specific claim being made as to the individual words appearing in the drawing apart from the mark as shown therein.

Particular description of goods.—Disintegrated Metal, Metal Dust, or Metal Powder.

Claims use since about Jan. 1, 1917.

Ser. No. 104,367. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOEREN W. STAADS, Sioux City, Iowa. Filed June 11, 1917.



Particular description of goods.—Cocoa and Cereal Beverages.

Claims use since Feb. 1, 1917.

Ser. No. 107,480. (CLASS 37. PAPER AND STATIONERY.) PARAGON BINDER CORPORATION, New York, N. Y., and Newark, N. J. Filed Nov. 19, 1917.

PARAGON

Particular description of goods.—File-Perforators, Commercially designated as Punches.

Claims use since Aug. 30, 1917.

Ser. No. 109,401. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYON & HEALY, Chicago, Ill. Filed Mar. 6, 1918.

Silento

Particular description of goods.—Pianos.

Claims use since about January, 1918.

Ser. No. 109,715. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD NATHANIEL HARDEN, Phoebus, Va. Filed Mar. 22, 1918.



Particular description of goods.— Liniment for Sprains and Bruises.

Claims use since May 24, 1917.

Ser. No. 109,749. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KAY BEE MANUFACTURING COMPANY, Los Angeles, Calif. Filed Mar. 23, 1918.

KAYBEE

Particular description of goods.—Electric Searchlights.
Claims use since Mar. 2, 1917.

Ser. No. 110,802. (CLASS 21, ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHADBURN'S (SHIP) TELEGRAPH CO. LIMITED, Bootle, England. Filed May 10, 1918. Under ten-year proviso.

CHADBURN

Particular description of goods.—Ships' Electrical Telegraphic Apparatus for Communicating Between One Part of a Vessel in Which a Transmitting and Receiving Instrument or Instruments are Used and Receiving or Indicating Instruments for the Transmission and Indication of Orders.
Claims use since the 20th day of December, 1887.

Ser. No. 113,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS W. BERRY, Galesburg, Ill. Filed Sept. 24, 1918.

4 IN ONE

Particular description of goods.—A Hair-Grower.
Claims use since about Dec. 1, 1917.

Ser. No. 114,042. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE LIMOGES CHINA COMPANY, Sebring, Ohio. Filed Nov. 4, 1918.

PURITAN LIMOGE L C CO.

No claim is made to "Limoges" apart from the mark as shown on the drawing.
Particular description of goods.—China Cups, Saucers, Plates, and Food-Dishes.
Claims use since June 19, 1917.

Ser. No. 115,750. (CLASS 37. PAPER AND STATIONERY.) G. E. DE VRIES & CO., Arnhem, Netherlands. Filed Feb. 7, 1919.



Particular description of goods.—Commercial Writing or Bond Paper, Linen Paper, Ledger-Paper, Drawing-Paper, Tracing-Paper, Typewriter-Paper, (other Than Carbon-Paper,) Printing-Paper, Wrapping-Paper Blotting-Paper, Mailing-Envelops, Paper Tablets, Composition Books, Memo-Books, Lead-Pencils, Penholders, Hand-Blotters, School-Rulers, Book-Marks, Bookbinders' Rulers or Folders, Book-Bindings, Hand Stapling-Machines and Staples, Temporary or Loose-Leaf Binders, File-Perforators, Binders' Board, and Periodical-Binders.
Claims use since Apr. 21, 1914.

Ser. No. 115,872. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BURNET COMPANY, New York, N. Y. Filed Feb. 15, 1919.

SEABOARD

Particular description of goods.—Electric Cargo-Lights, Electric Lamps, Electric Ships' Lamps, and Electric Lanterns.
Claims use since July 6, 1918.

Ser. No. 116,145. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COLUMBIA PAINT CO., Oakland, Calif. Filed Feb. 26, 1919.

HARBOR

Particular description of goods.—Wet Mixed Paint.
Claims use since June, 1912.

Ser. No. 116,619. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Mar. 15 1919.

BARBERS'PET

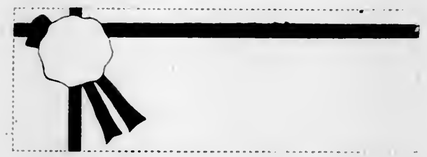
Particular description of goods.—Razors.
Claims use since Oct. 31, 1891.

Ser. No. 116,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH AMOS LINLEY, London, England. Filed Mar. 26, 1919.

LINLEY

Particular description of goods.—Chilled Fresh Beef Mutton, Lamb, and Veal.
Claims use since the 29th day of April, 1918.

Ser. No. 117,159. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FLORENCE MANUFACTURING COMPANY, Northampton, Mass. Filed Apr. 4, 1919.



The trade-mark consisting of the representation of a ribbon as if tied about a box and the representation of a seal at the intersection of the ribbon, no claim being made to the representation of the package.
Particular description of goods.—Hair-Brushes.
Claims use since Mar. 21, 1919.

Ser. No. 117,309. (CLASS 37. PAPER AND STATIONERY.) SAMUEL WARD MANUFACTURING COMPANY, Boston, Mass. Filed Apr. 9, 1919.

REDYPOINT

Particular description of goods.—Lead-Pencils and Leads Therefor.
Claims use since Aug. 12, 1918.

Ser. No. 117,376. (CLASS 39. CLOTHING.) GREENWALD BROTHERS, INCORPORATED, Philadelphia, Pa. Filed Apr. 11, 1919.

PETTI-JEANS

Particular description of goods.—Convertible Petticoats and Bloomers.
Claims use since Jan. 6, 1919.

Ser. No. 117,439. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CRAWFORD TOOL AND MANUFACTURING CO., Chicago, Ill. Filed Apr. 14, 1919.

Crawford

Particular description of goods.—Dynamic Balancing-Machines.
Claims use since Apr. 5, 1919.

Ser. No. 117,510. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME, LES PRODUITS DU NAOL, Paris, France. Filed Apr. 15, 1919.

LE NAOL

Particular description of goods.—Metal-Polishes.
Claims use since Feb. 1, 1915.

Ser. No. 117,558. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND OSBORN MANUFACTURING COMPANY, Cleveland, Ohio. Filed Apr. 17, 1919.

OSBORN

Particular description of goods.—Foundry Supplies, Comprising Shovels, Riddles, Bellows, Rammers, Mallets, and also Molding-Machines and Parts Thereof, Comprising Foundry, Jolting, Roll-Over, Squeezer, Core, and Stripping Machines, and Vibrators.
Claims use since Jan. 1, 1911.

Ser. No. 117,986. (CLASS 22, GAMES, TOYS, AND SPORTING GOODS.) OXFORD-PRINT, Boston, Mass. Filed Apr. 29, 1919.

JOY TOY

The word "Joy-Toy."
Particular description of goods.—The Following Articles Composed Wholly or in Part of Paper or Pasteboard: Toy Balls, Toy Trunks, Toy Airplanes, Toy Airships, Toy Forts, Toy Banks, Toy Fans, Toy Stencils and Outfits, Toy Embroidery Sets, Toy Soldiers and Soldier-Uniforms, Toy Lanterns, Toy Masks, Card Games and Game-Boards, Puzzles, Motto-Favors, Table-Favors, Holiday-Favors, Cornucopias, Dolls and Dolls' Dresses, Doll Furniture, and Doll Houses, Christmas-Tree Ornaments Made Wholly of Cardboard.
Claims use since Mar. 28, 1919.

Ser. No. 118,118. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JOHN PARA, Elizabeth, N. J. Filed May 3, 1919.

PARAGON

Particular description of goods.—Talking-Machines, Record-Disks Therefor, Sound-Boxes, and Needles for Said Machines.
Claims use since Feb. 1, 1919.

Ser. No. 118,156. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYON & HEALY, Chicago, Ill. Filed May 5, 1919.

BILEVEL

Particular description of goods.—Piano-Pedals.
Claims use since about Jan. 15, 1919.

Ser. No. 118,541. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DOBSON NOVELTY COMPANY, Harrison, N. J. Filed May 16, 1919.



American Belle

The bust of the woman shown is fanciful.
Particular description of goods.—Hairpins.
Claims use since about Apr. 15, 1919.

Ser. No. 118,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL CANDY COMPANY, Chicago, Ill. Filed May 16, 1919.



Particular description of goods.—Boxed Candy, Chocolate Candy, Sugar Candy, Candy Confections, and Candy Made of Nuts.
Claims use since May 1, 1916.

Ser. No. 118,941. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIUS STROMEYER, Philadelphia, Pa. Filed May 26, 1919.



No claim being made to the word "Brand" apart from the mark as shown in the drawing. The ornamental lines in the word "Turkey" are for shading purposes only.
Particular description of goods.—Table-Syrups Contained in Sealed Containers.
Claims use since 1901.

Ser. No. 118,960. (CLASS 37. PAPER AND STATIONERY.) A. D. GURNEY COMPANY, Boston, Mass. Filed May 27, 1919.

HUB FLEX

Particular description of goods.—Pulp-Board Containing Wood and Cotton Fibers.
Claims use since Jan. 1, 1919.

Ser. No. 118,961. (CLASS 37. PAPER AND STATIONERY.) A. D. GURNEY COMPANY, Boston, Mass. Filed May 27, 1919.

REX FIBRE

The word "Fibre" apart from the mark as shown is not claimed.
Particular description of goods.—Pulp-Board Containing Wood and Cotton Fibers.
Claims use since Jan. 1, 1919.

Ser. No. 119,260. (CLASS 12. CONTSRUCTION MATERIALS.) VICTOR A. PETERSEN, Santa Barbara, Calif. Filed June 3, 1919.

Oakstone

Particular description of goods.—Plastic Composition of Magnesite, Sawdust, and Chlorid-Magnesium Composition for Surfacing Kitchen Drain-Boards, Floors, Shower-Baths, Bathtubs, Ice-Chests.
Claims use since Nov. 1, 1914.

Ser. No. 119,554. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GUY B. GAMBLE, Artesia, Calif. Filed June 13, 1919. Under ten-year proviso.



Consists of the words "Woodward's Prop Bracket" and the representation of an adjustable prop-bracket.
Particular description of goods.—Adjustable Prop-Brackets for Supporting Trees, Bushes, Shrubs, and the Limbs Thereof.
Claims use since about July 1, 1891.

Ser. No. 120,264. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) R. & H. SIMON CO., Union, N. J. Filed July 3, 1919.



Particular description of goods.—Ribbons in the Piece.
Claims use since the year 1900.

Ser. No. 120,446. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER CASTELLI, Cincinnati, Ohio. Filed July 11, 1919.

Whoopa-Cura

Particular description of goods.—Whooping-Cough Medicine.
Claims use since June 1, 1917.

Ser. No. 120,667. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) HOLYOKE HEATER COMPANY, Holyoke, Mass. Filed July 18, 1919.



Particular description of goods.—Gas and Oil Hot-Water Heaters.
Claims use since on or about Jan. 1, 1913.

Ser. No. 120,756. (CLASS 43. THREAD AND YARN.) H. E. LOCKE & COMPANY, INC., Boston, Mass. Filed July 21, 1919.

3-30
KANSAS

No claim being made to the word "Kansas" apart from the mark shown.
Particular description of goods.—Thread and Yarn.
Claims use since May, 1914.

Ser. No. 120,993. (CLASS 39. CLOTHING.) INTERNATIONAL SHOE COMPANY, St. Louis, Mo. Filed July 28, 1919.

HONESTY

Particular description of goods.—Men's, Women's, and Children's Shoes of Leather, Rubber, Fabric, and Combination Materials.
Claims use since June, 1909.

Ser. No. 121,029. (CLASS 39. CLOTHING.) GEORGE E. SWEETSER COMPANY, New York, N. Y. Filed July 28, 1919.

HONOR

Particular description of goods.—Men's Dress-Shirts and Underwear Made of Textile Fabric.
Claims use since May 15, 1919.

Ser. No. 121,357. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PARKER MOTOR TRUCK COMPANY, Milwaukee, Wis. Filed Aug. 7, 1919.

Parker
TRUCKS

No claim is made to the use of the word "Trucks" apart from the trade-mark as shown.
Particular description of goods.—Motor-Trucks.
Claims use since July 1, 1919.

Ser. No. 121,368. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) UNITED STATES FUEL-SAVING EQUIPMENTS CORPORATION, Charlottesville, Va. Filed Aug. 7, 1919.

AUTODRAFT

Particular description of goods.—Metallic Fuel-Saving Attachments Secured to the Outer Casing of Heaters of Various Kinds.
Claims use since April, 1919.

Ser. No. 121,425. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SQUARE DEAL MILLER INC., Detroit, Mich. Filed Aug. 8, 1919.

SQUARE DEAL

Miller

No claim is made to the name "Miller" aside from the combination of the words shown in the drawing or when written as shown in the drawing.
Particular description of goods.—Diamonds, Sterling-Silver and Plated Hollow and Flat Ware, Jewelry for Personal Wear, Not Including Watches, Silver Pencils, Pearl Beads, Finger-Rings, Precious and Semiprecious Stones, and Emblems Made of or Plated with Precious Metal.
Claims use since Jan. 1, 1910.

Ser. No. 121,547. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SUN ELECTRICAL COMPANY, LIMITED, London, England. Filed Aug. 11, 1919.

SUNCO

Particular description of goods.—Electrical Fittings—Namely, Enameled Steel Conduits, Enameled Conduit-Fittings, Spacing-Saddles, Enameled Conduit-Boxes, Cast-Iron Junction-Boxes, Grip Conduit Fittings and Boxes, Circular Boxes with Patent Grip Outlets, Kalkos Conduit-Boxes, Conduit Switch-Boxes, Switches, Ceiling-Roses, Wall-Sockets.
Claims use since Dec. 21, 1918.

Ser. No. 121,798. (CLASS 37. PAPER AND STATIONERY.) THE WHITAKER PAPER COMPANY, Cincinnati, Ohio. Filed Aug. 18, 1919.

COPYRITE

Particular description of goods.—Bond-Paper.
Claims use since July 25, 1919.

Ser. No. 122,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BRECHT CANDY CO., Denver, Colo. Filed Sept. 16, 1919.

Brecht

"Say it with Candy"

No claim being made to the words "Say It with Candy" apart from the mark shown.
Particular description of goods.—Candies.
Claims use since July 1, 1919.

Ser. No. 122,915. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ARWOOD J. RUTTENBER, Jamestown, N. Y. Filed Sept. 19, 1919.

HI-BRITE

Particular description of goods.—Silver Cleaner and Polish and Radiator-Cleaner.
Claims use since Sept. 12, 1919.

Ser. No. 123,171. (CLASS 39. CLOTHING.) RIVERSIDE HOSIERY MILLS, INC., Haw River, N. C. Filed Sept. 26, 1919.

SUPER SOX

No claim being made to the exclusive use of the word "Sox" apart from the word "Super" as shown.
Particular description of goods.—Hosiery for Women and Children.
Claims use since June 18, 1919.

Ser. No. 123,260. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REILLY-SNYDER MANF'G CO. INC., New York, N. Y. Filed Sept. 29, 1919.

Particular description of goods.—Carbon-Remover for Gas-Engine Cylinders.
Claims use since Apr. 1, 1919.

Ser. No. 123,390. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARBURG BROTHERS, INC., New York, N. Y. Filed Oct. 3, 1919.

PEACOCK PAVO REAL

Particular description of goods.—Cane-Knives, Corn-Knives, Machetes, Axes, Hatchets, Bolo-Knives, Scythes, Sickles, Mattocks, Hoes, and Shovels.
Claims use since Jan. 2, 1919.

Ser. No. 123,438. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE LION SUPPLY COMPANY, La Fayette, Ind. Filed Oct. 4, 1919.

TRIMORE

Particular description of goods.—Pneumatic Tires Composed of Rubber and Fabric.
Claims use since May 1, 1919.

Ser. No. 123,442. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES MACDONALD, New York, N. Y. Filed Oct. 4, 1919.

WHITEETH

Consisting of the word "Whiteteeth."
Particular description of goods.—Dental Cream.
Claims use since June 10, 1919.

Ser. No. 123,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMON P. O'LEE, Nicholasville, Ky. Filed Oct. 9, 1919.

UNCLE PETE'S REMEDY FOR PILES AND FISTULA S.P.O'LEE NICHOLASVILLE, KY.

The color lining in the drawing, shown in the border of the circle comprising part of applicant's mark, is lined to indicate red and blue squares alternating between squares of white. The body of the mark is lined for red, indicating a red coloration as displayed by the specimens. The portrait shown on the drawing is that of the living individual, it being the portrait of the applicant. No claim is made to the use of the words "Remedy for Piles and Fistula," "Nicholasville, Ky.," and "S. P. O'Lee" apart from the mark shown in the drawing.
Particular description of goods.—A Medicinal Remedy for Piles and Fistulas.
Claims use since Apr. 22, 1919.

Ser. No. 123,626. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 10, 1919.

PINNACLE

Particular description of goods.—Pencils.
Claims use since the year 1908.

Ser. No. 123,726. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BARREL SYRUP CO., Oakland, Calif. Filed Oct. 13, 1919.

BARREL

Particular description of goods.—Maple-Cane Sugar and Fruit Syrups for Table Purposes.
Claims use since Sept. 22, 1919.

Ser. No. 123,804. (CLASS 39. CLOTHING.) JOHN M. GIVEN, INC., Pittsburgh, Pa., Chicago, Ill., and New York, N. Y. Filed Oct. 15, 1919.

Drop Girl HOSE "first in its class"

No claim being herein made to the word "Hose" nor to the phrase "First in Its Class" except in connection with the other features shown in the drawing. The lining on the drawing is intended to indicate shading only.
Particular description of goods.—Women's and Children's Hosiery.
Claims use since Oct. 8, 1919.

Ser. No. 123,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. M. DARR COMPANY, INC., Gretna, La. Filed Oct. 17, 1919.

RUST-O-MOVER

Particular description of goods.—A Certain Chemical Rust-Remover, Known as Rust-O-Mover, Used for Removing All Kinds of Stains, But Particularly Rust and Iron Stains and Rust from Metals.

Claims use since Oct. 15, 1916.

Ser. No. 124,028. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CANNING COMPANY, Oakland, Calif. Filed Oct. 20, 1919.



No claim is made to the word "Brand" apart from the mark shown in the drawing, the color lines on the drawing being intended to represent the colors green and red, respectively.

Particular description of goods.—Canned Fruits Namely, Canned Peaches, Canned Apricots, and Canned Pears.

Claims use since June 15, 1919.

Ser. No. 124,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CANNING COMPANY, Oakland, Calif. Filed Oct. 20, 1919.



No claim is made to the word "Brand" apart from the mark as shown in the drawing, the color lines on the drawing being intended to represent the colors yellow, green, black, blue, and red, respectively.

Particular description of goods.—Canned Fruits Namely, Canned Apricots and Canned Pears.

Claims use since June 15, 1919.

Ser. No. 124,033. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CANNING COMPANY, Oakland, Calif. Filed Oct. 20, 1919.



No claim is made to the word "Brand" apart from the mark shown in the drawing, the color lines on the drawing being intended to represent the colors light blue, red, and dark blue, respectively.

Particular description of goods. Canned Fruits Namely, Canned Pears, Canned Peaches, and Canned Apricots; Canned Vegetables Namely, Canned Tomatoes, with Purée from Trimmings.

Claims use since June 15, 1919.

Ser. No. 124,088. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS LORIN HUTTON, Detroit, Mich. Filed Oct. 22, 1919.

COLGUENT

Particular description of goods. Ointment for Improving the Complexion

Claims use since January, 1918.

Ser. No. 124,102. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP A. HUNT COMPANY, New York, N. Y. Filed Oct. 31, 1919.



Particular description of goods. Sodium Nitrate, Sodium Nitrite, Sodium Silicate, Sodium Sulfate, Sodium Sulfid, Sodium Sulfite, Copperas, Copper Carbonate, Copper Chlorid, Copper Sulfate, Copper Acetate, Epsom Salt, Formaldehyde, Sulfuric Acid, Muriatic Acid, Nitric Acid, Aqua Ammonia, Barium Chlorid, Zinc Sulfate, Zinc Chlorid, Zinc Carbonate, Potassium Bicarbonate, Potassium Bichromate, Potassium Bromid, Potassium Carbonate, Potassium Caustic, Potassium Chlorate, Potassium Chlorid, Potassium Cyanid, Potassium Sodid, Potassium Metabisulfite, Potassium Permacyanate, Potassium Ferrocyanid, Potassium Ferricyanid, Potassium Sulfite, Sodium Carbonate, Sodium Caustic, Sodium Bicarbonate, Sodium Acetate, Sodium Bichromate, Sodium Bisulfite, Sodium Chlorate, Sodium Chlorid, Sodium Cyanid, Sodium Hyposulfite, and Potassium Iodid.

Claims use since Sept. 1, 1919.

Ser. No. 124,647. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE GLOBE CO., Philadelphia, Pa. Filed Nov. 7, 1919.



Particular description of goods. Music Rolls for Automatically-Played Musical Instruments

Claims use since June 20, 1919.

Ser. No. 124,671. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. P. STORES COMPANY, Norfolk, Va. Filed Nov. 7, 1919.

D.P.Stores



Particular description of goods. Canned Vegetables, Corn Starch, Cracker-Meal, Canned Pork and Beans Canned Fruits, Apple Sauce, Apple Butter, Rice, Butter, Vinegar, Coffee, Tea, Cocoa, Horse-Radish, Mayonnaise Dressing, Food Flavoring Extracts, Mustard, Pepper, and Spices. Namely, Allspice, Cinnamon, Ginger, Cloves, Mace, Paprika, and Nutmeg.

Claims use since February, 1919.

Ser. No. 124,680. (CLASS 38. PRINTS AND PUBLICATIONS.) CHICAGO MILL AND LUMBER COMPANY, Chicago, Ill. Filed Nov. 8, 1919.

BOXES

Consisting of the word "Boxes."

Particular description of goods.—A Printed Monthly Magazine.

Claims use since Sept. 18, 1919.

Ser. No. 124,722. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Nov. 10, 1919.

MINERVA
Military Suiting



No claim being made to the exclusive use of the words "Military Suiting" apart from the mark shown in the drawing.

Particular description of goods.—Suitings and Dress Goods for Clothing for Men, Women, and Children.

Claims use since about 1916.

Ser. No. 124,784. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. E. BURSLEY & COMPANY, Fort Wayne, Ind. Filed Nov. 12, 1919.

LITTLE ELF



Particular description of goods. Peanut-Butter, Spices, Extracts for Flavoring Foods, Fruit Jellies, Fruit Preserves, Apple-Butter, Pickles, Catsup, Canned Vegetables, Canned Fruits, Canned Fish, Dried Fruits, Cheese, Mustard, Dried Beef, and Vinegar.

Claims use since Apr. 15, 1919.

Ser. No. 124,789. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREEK AND SYRIAN COMPANY, INC., New York, N. Y. Filed Nov. 12, 1919.

PALLAS
ATHENA
BRAND



Applicant hereby disclaims the descriptive word "Brand" shown on the drawing.

Particular description of goods.—Olive-oil.

Claims use since May, 1916.

Ser. No. 124,865. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NULYNE LABORATORIES, Jackson, Mich. Filed Nov. 13, 1919.

Nulyne

Particular description of goods. Bronchial, Throat, and Sulphur Lozenges; Lithia, Headache, Cold, and Dyspepsia Tablets; Liver Pills; Ointment for Burns, Scalds, Cuts, Wounds, and Skin Diseases; Milk of Magnesia, Sodium Phosphate, Headache and Hepatic Salts, Cough Syrups and Larkspur Compound, Compound Syrup of Hypophosphites, Wine Cod Liver Extract; Beef, Iron, and Wine Tonic; Emulsion Cod Liver Oil, Castor Oil, Castoria, Cascara; Liniment for the Relief of Pain, Soreness, and Stiffness of the Joints; Sore-Throat Remedy.

Claims use since Oct. 1, 1916.

Ser. No. 124,992. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH P. HARMER, Philadelphia, Pa. Filed Nov. 17, 1919.

HARMER
MON-ARSONE
LABORATORIES

No claim is made to the exclusive use of the words "Harmer" and "Laboratories."

Particular description of goods.—A Medical and Pharmaceutical Compound or Preparation for the Treatment of Syphilis.

Claims use since Aug. 15, 1919.

Ser. No. 125,337. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK INDUSTRIAL ALCOHOL COMPANY, New York, N. Y. Filed Nov. 26, 1919.

ALCOLINA

Particular description of goods.—Non-Freezing Solution for Internal-Combustion Engines.

Claims use since Nov. 3, 1919.

Ser. No. 125,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. M. SEIBEL, Kansas City, Mo. Filed Nov. 28, 1919.

SODIPHENE

Particular description of goods.—An Alkaline Antiseptic, Germicide, Deodorant, and Antiphlogistic Preparation.

Claims use since Nov. 15, 1918.

Ser. No. 125,696. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ROSCOE B. GATTON, Chicago, Ill. Filed Dec. 8, 1919.

GATTONOLA

Particular description of goods.—Talking-Machines.

Claims use since July 20, 1919.

Ser. No. 125,805. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LUDWIG SCHACHT, Buffalo, N. Y. Filed Dec. 10, 1919.

PEPTRU

Said trade-mark consists of the arbitrarily-selected word-symbol "Peptru." The drawing filed herewith represents said trade-mark as appearing in plain capital letters in a horizontal line, the first and last letters—viz., "P" and "U"—being largest and the top thereof being on the line with the other letters, but projecting below the line of the other letters at the bottom.

Particular description of goods.—Non-Alcoholic Beverages. Beverage Contains No Cereal or Malt and Is Sold as a Soft Drink and as Sold in Beverage Form Contains Less Than One-Eighth of One Per Cent. of Alcohol, by Volume; in Syrup Form as Sold to Soda-Fountains and the Like and Before the Addition of Plain or Charged Water Contains Less Than One-Half of One Per Cent. of Alcohol, by Volume.

Claims use since June 9, 1919.

Ser. No. 125,978. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BREWING COMPANY, Norristown, Pa. Filed Dec. 13, 1919.



The mark consisting of the words "Valley Forge Special" and the representation of General Washington in his winter headquarters at Valley Forge. No claim is made to the word "Special" apart from the mark as shown.

Particular description of goods.—Lager-Beer.

Claims use since April, 1915.

Ser. No. 126,003. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN W. BROWN, Fort Wayne, Ind. Filed Dec. 15, 1919.

DADDY

Particular description of goods.—Nebulizers for Hydrocarbon-Engines.

Claims use since June 10, 1919.

Ser. No. 126,179. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EUGENE GUTMAN & CO., New York, N. Y. Filed Dec. 17, 1919.

•LUNA•MILLS•

Consisting of the words "Luna Mills."

Particular description of goods.—Cotton Piece Goods.

Claims use since Dec. 8, 1904.

Ser. No. 126,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LABORATORIUM LEO, DR. PHIL. OTTOMAR HEINSIUS V. MAYENBURG, Dresden, Germany. Filed Dec. 17, 1919.

Chlorodont

Particular description of goods. Tooth-Pastes, Tooth-Powder, and Tooth-Wash.

Claims use since July, 1907.

Ser. No. 126,383. (CLASS 39. CLOTHING.) KORN-HANDLER & KANE, New York, N. Y. Filed Dec. 23, 1919.



Particular description of goods—Waists for Outer Wear and Blouses for Outer Wear.

Claims use since the 3d day of December, 1919.

Ser. No. 126,384. (CLASS 39. CLOTHING.) KORN-HANDLER & KANE, New York, N. Y. Filed Dec. 23, 1919.

BLUE-BIRD

Particular description of goods.—Waists for Outer Wear and Blouses.

Claims use since the 3d day of December, 1919.

Ser. No. 126,458. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARLE C. CONWAY, New York, N. Y.; EARLE E. CONWAY, Boston, and THEODORE P. BROWN, Worcester, Mass., trustees. Filed Dec. 26, 1919.

LEXINGTON

Particular description of goods.—Pianos.

Claims use since on or about 1906.

Ser. No. 126,592. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RADIUM APPLIANCE COMPANY, Los Angeles, Calif. Filed Dec. 29, 1919.



No claim being made to the exclusive use of the words "Radio-Active Products, Radium Appliance Company, Los Angeles," and the phrase "The Sign of Quality" apart from the mark shown in the drawing.

Particular description of goods.—Medicinal Pads Coated with Radioactive Minerals Giving a Vasa Motor Tonus.

Claims use since Oct. 10, 1918.

Ser. No. 126,743. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OVERSEAS PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 2, 1920.



Particular description of goods.—Canned or Tinned Foods—Namely, Canned Milk.

Claims use since Nov. 1, 1919.

Ser. No. 127,090. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN ELLIOT, Keene, N. H. Filed Jan. 13, 1920.

"SCRUB-KNOT"

Particular description of goods.—Washing Compounds.

Claims use since Jan. 1, 1920.

Ser. No. 127,166. (CLASS 39. CLOTHING.) WYMAN PARTRIDGE & CO., Minneapolis, Minn. Filed Jan. 14, 1920.

Teddy Togs

No claim being made to the word "Togs" apart from the mark as shown.

Particular description of goods.—Children's Rompers and Creepers.

Claims use since Oct. 20, 1919.

Ser. No. 127,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Jan. 19, 1920.

HEM-ROID-CONES

Particular description of goods.—Anodyne Astringent Suppository.
Claims use since Feb. 3, 1914.

Ser. No. 127,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB L. GREENBAUM, Toledo, Ohio. Filed Jan. 20, 1920.

REWARD

Particular description of goods.—Foot-Lotion, Burn-Ointment, Corn Compound, Eye-Drops, Earache-Drops, Worm-Powder, Physic for Children; Pain-Oil—Namely, an Oil for Use in Externally Treating All Kinds of Aches and Pains, Sprains, Sore Throat, and Colds; Baby-Cathartic; Salves for Use in the Treatment of Skin Troubles from Sunburn, Chafing, Chapped Hands and Face, Cuts and Burns; Aseptine Shampoo, Mentho Cream, Toothache-Drops, Blackberry Carminative, and Aseptine—Namely, an Antiseptic Wash and Gargle.
Claims use since 1913.

Ser. No. 127392. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NODOL MEDICINE CO., St. Louis, Mo. Filed Jan. 20, 1920.

Nodol

Particular description of goods.—A Germicide.
Claims use since Nov. 1, 1919.

Ser. No. 127,408. (CLASS 39. CLOTHING.) A. V. VICTORIUS & COMPANY, New York, N. Y. Filed Jan. 20, 1920.

MAYFLOWER

Particular description of goods.—Hosiery.
Claims use since Aug. 19, 1919.

Ser. No. 127,411. (CLASS 39. CLOTHING.) WYMAN PARTRIDGE & Co., Minneapolis, Minn. Filed Jan. 20, 1920.

TEDDY-ALLS

Particular description of goods.—A One-Piece Suit for Men and Boys—Namely, Overalls.
Claims use since Oct. 30, 1919.

Ser. No. 127,426. (CLASS 38. PRINTS AND PUBLICATIONS.) DETMER WOOLEN CO., New York, N. Y. Filed Jan. 21, 1920.

Progressive Tailor

Particular description of goods.—A Semi-Annual Periodical Publication
Claims use since January, 1913.

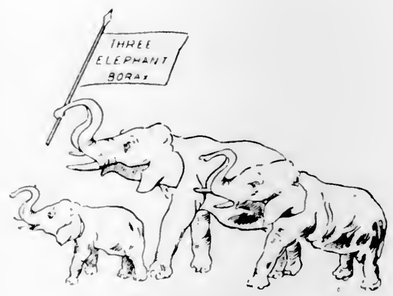
Ser. No. 127,427. (CLASS 38. PRINTS AND PUBLICATIONS.) THE H. K. FERGUSON COMPANY, Cleveland, Ohio. Filed Jan. 21, 1920.



No claim being made to the words "Ferguson Originated Standard Factories."

Particular description of goods.—Plans and Specifications.
Claims use since Aug. 24, 1918.

Ser. No. 127,459. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN TRONA CORPORATION, New York, N. Y. Filed Jan. 22, 1920.



No claim being made to the word "Borax" apart from the mark shown on the drawing.

Particular description of goods.—Borax.
Claims use since July, 1919.

Ser. No. 127,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK F. INGRAM COMPANY, Detroit, Mich. Filed Jan. 23, 1920. Under ten-year proviso.

Ingram's

Particular description of goods.—Skin-Creams, Toilet Powders, Rouge, Complexion-Tablets, Dentifrices, Preparation for Relief of Sunburn and Chapped Skin, After-Shaving Preparation, Cold-Cream, Camphor-Ice, Toilet Water, Colognes, Sachet-Powders, Mouth-Wash; Medicine for Relief of Coughs, Colds, and Bronchial Affections; Diarrhea Remedy, Remedies for Female Complaints, Worm Medicines, Liniment for External Pains, Toothache Remedies, Alteratives, and a Strengthening Tonic Useful in Anemic and Run-Down Conditions, Blood-Purifiers.
Claims use since about 1891.

Ser. No. 127,544. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES A. FEDERER, Cleveland, Ohio. Filed Jan. 24, 1920.



Particular description of goods.—A Non-Alcoholic Soft-Drink Beverages Consisting of a True Fruit Grape Extract, Syrup, Fruit-Base Fruit-Acid, and Carbonated or Plain Water and Which Does Not Contain Any Cereal or Malt Extracts.
Claims use since Apr. 1, 1918.

Ser. No. 127,670. (CLASS 38. PRINTS AND PUBLICATIONS.) UNCLE SAM ASSOCIATES, INCORPORATED, Boston, Mass. Filed Jan. 27, 1920.

UNCLE SAM'S

Particular description of goods.—A Magazine Published Monthly.
Claims use since Sept. 2, 1919.

Ser. No. 127,675. (CLASS 39. CLOTHING.) ATWATER KNITTING COMPANY, Westfield, Mass. Filed Jan. 28, 1920.

MASTER-TEX

No claim being made for the word "Master" apart from the mark as shown in the drawing.

Particular description of goods.—Men's Knitted Union-Suits.
Claims use since Jan. 28, 1919.

Ser. No. 127,698. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) S. A. ROGERS CO., Newark, N. J. Filed Jan. 28, 1920.

RO-TEST-SEED

No claim being made to the words "Test" or "Seed" apart from the mark shown on the drawing.

Particular description of goods.—Flower and Vegetable Seeds.
Claims use since Jan. 1, 1919.

Ser. No. 127,699. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ACHILLES RUBBER AND TIRE COMPANY, INC., Binghamton, N. Y. Filed Jan. 28, 1920.

REINDEER

Particular description of goods.—Rubber-Tire Casings and Tubes.
Claims use since Apr. 8, 1919.

Ser. No. 127,714. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARB-OUT LABORATORIES COMPANY, Baltimore, Md. Filed Jan. 29, 1920.

CARB-OUT

Particular description of goods.—A Chemical Carbon-Remover for Internal-Combustion Engines.
Claims use since Jan. 24, 1920.

Ser. No. 127,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM T. KNIGHT, Shadyside, Ohio. Filed Jan. 29, 1920.



Particular description of goods.—Anti-Tuberculosis Relief Medicine and Anti-Asthmatic Relief Medicine.
Claims use since December, 1917.

Ser. No. 127,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMAN E. KREIDER, Painesville, Ohio. Filed Jan. 29, 1920.

BREAKWATER

Particular description of goods.—A Washing-Soda and Water-Softener.
Claims use since Dec. 20, 1919.

Ser. No. 127,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MIRACLE SALVE COMPANY, Buffalo, N. Y. Filed Jan. 30, 1920.

MIRACLE SALVE

No claim is made to the word "Salve" shown in the mark.
Particular description of goods.—A Salve for Blood-Poisoning, Boils, Cuts, Carbuncles, Running Sores, Felons, Ulcers, and Burns.
Claims use since May 1, 1919.

Ser. No. 127,779. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEACOAST CANNING CO., Eastport, Me., and East San Pedro, Calif. Filed Jan. 30, 1920.



Color lines on the drawing herewith submitted are described as follows: The figure of the boatswain's coat, trousers, and hat are yellow, his beard is gray, and his boots are black. He is seated upon a black rope on a yellow dock, and around him the sea is green.
Particular description of goods.—Canned Sardines.
Claims use since Aug. 1, 1918.

Ser. No. 127,816. (CLASS 38. PRINTS AND PUBLICATIONS.) SINGLETON G. HOWELL, Dallas, Tex. Filed Jan. 31, 1920.

Motion Picture Journal

Particular description of goods.—Weekly Publications.
Claims use since November, 1915.

Ser. No. 127,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVIN & REMSON, Atlanta, Ga. Filed Jan. 31, 1920.

PAIN XIT

Particular description of goods.—A Medicine Used in the Treatment of Headache.
Claims use since Jan. 1, 1919.

Ser. No. 127,832. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. S. PETERSON & CO., Chicago, Ill. Filed Jan. 31, 1920.

CANTHROX

Consisting of the expression "Canthrox."
Particular description of goods.—Hair-Shampoo.
Claims use since Jan. 26, 1909.

Ser. No. 127,847. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALADDIN PRODUCTS COMPANY, Chicago, Ill. Filed Feb. 2, 1920.



Particular description of goods.—Hat-Dye.
Claims use since the 24th of June, 1919.

Ser. No. 127,865. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHAM WARREN CORPORATION, New York, N. Y. Filed Feb. 2, 1920.

CUTEX

Particular description of goods.—Face-Powders and Rouges in Compact Form.
Claims use since about Jan. 15, 1920.

Ser. No. 127,943. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EARL OXFORD SWINDELLS, Providence, R. I. Filed Feb. 3, 1920.

DEL-A-TOL

The trade-mark consists of the word "Del-A-Tol."
Particular description of goods.—Antiseptic Mouth-Wash.
Claims use since Nov. 15, 1919.

Ser. No. 127,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY EMANUEL DAVIS, London, England. Filed Feb. 4, 1920.

DELCOBLAST

Particular description of goods.—A Chemical Preparation for Matting, Etching, or Frosting Glass.
Claims use since 1913.

Ser. No. 127,969. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN E. MALKIN, New York, N. Y. Filed Feb. 4, 1920.



The bust shown is that of applicant. The Russian words appearing on the drawing are disclaimed.
Particular description of goods.—Non-Alcoholic Malt Beverage Containing Less Than One-Half of One Per Cent. of Alcohol.
Claims use since Nov. 18, 1919.

Ser. No. 127,971. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCER AND DE VELVIS, Alliance, Ohio. Filed Feb. 4, 1920.



Consisting of the portrait of A. E. Mercer.
Particular description of goods.—A Liniment for Use in the Treatment of Cuts, Burns, Bruises, Sore Throat, Sore Back, and Sore Feet, Headache, Diphtheria, Toothache, and Neuralgia, for a Medicine in Tablet Form for Treating Backache, for a Disinfectant, Roach and Bug Killer, for a Blood-Purifier, a Cough-Syrup, a Fever-Tea, a Bladder Remedy, a Pile-Salve and a Salve for Use in Treating Cuts, Burns, Ivy-Poisoning, Running Sores, Fever-Blisters on Lips, Chapped Hands, Barber's Itch, Skin Soreness and Eruptions, and for the Treatment of Mange on Horses, Cattle, and Dogs.
Claims use since Feb. 13, 1912.

Ser. No. 127,977. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ARTHUR L. REIFSNIDER, Baltimore, Md. Filed Feb. 4, 1920.

FLEXO

Particular description of goods.—Piston-Rings.
Claims use since Feb. 1, 1917.

Ser. No. 127,997. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JASPER H. CREEL, Hattiesburg, Miss. Filed Feb. 5, 1920.



The picture is a portrait of the applicant.
Particular description of goods.—Liver-Pills, a Blood and Nerve Tonic; Drops to be Taken in Treatment of Rheumatism, Neuralgia, Sick-Headaches, Lumbago, White Swelling, Gravel-Sores, Cuts, and Burns; a Liniment for Use in the Treatment of Rheumatism, and a Medicine for Use in the Treatment of Acute Articular Rheumatism.
Claims use since Jan. 14, 1920.

Ser. No. 128,000. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEOPOLD FRANK, London, England. Filed Feb. 5, 1920.



No claim being made to the exclusive use of the words "Blankets British Made" apart from the mark as shown.
Particular description of goods.—Woolen Blankets Not in the Piece.
Claims use since 4th of April, 1919.

Ser. No. 128,040. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BERTIN & STIMSON, San Francisco, Calif. Filed Feb. 6, 1920.



Particular description of goods.—Chocolates.
Claims use since July 2, 1919.

Ser. No. 128,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J. Filed Feb. 7, 1920.

ATLAS

Particular description of goods.—Scaling-Powder for Welding Cast-Iron.
Claims use since November, 1913.

Ser. No. 128,085. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J. Filed Feb. 7, 1920.

MARVEL

Particular description of goods.—Flux-Powder for Welding or Brazing Brass, Bronze, and Malleable Iron.
Claims use since November, 1913.

Ser. No. 128,086. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DEARBORN BAKING CO., Aurora, Ind. Filed Feb. 7, 1920.

"HONOR LOAF"

The word "Loaf" being disclaimed apart from the mark shown.
Particular description of goods.—Bread.
Claims use since Nov. 19, 1919.

Ser. No. 128,092. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GREAT SOUTHERN SULPHUR COMPANY, INC., Orla, Tex. Filed Feb. 7, 1920.



Particular description of goods.—Sulfur.
Claims use since Feb. 5, 1920.

Ser. No. 128,106. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) OXWELD ACETYLENE COMPANY, Newark, N. J. Filed Feb. 7, 1920.

EVEREADY

Particular description of goods.—Blowpipes, Regulators for Blowpipes, and Tips and Nozzles for Blowpipes.
Claims use since Dec. 22, 1919.

Ser. No. 128,115. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 7, 1920.

ROLY POLY

Particular description of goods.—Diapers
Claims use since January, 1912.

Ser. No. 128,198. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HYMAN BAUMAN & CO., New York, N. Y. Filed Feb. 10, 1920.



The picture thereon being fanciful, no claim being made to the exclusive use of the word "Hankies" apart from the mark shown in the drawing.
Particular description of goods.—Handkerchiefs.
Claims use since Dec. 18, 1919.

Ser. No. 128,213. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOS. A. KLEIN, New York, N. Y. Filed Feb. 10, 1920.

Dnalpyorin

Consists of the word "Analpyorin."
Particular description of goods.—Local Anesthetics.
Claims use since Nov. 23, 1919.

Ser. No. 128,274. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 11, 1920.



No claim being made for the word "Pulp" except as shown in the accompanying drawing.
Particular description of goods.—Paper-Pulp Made from Cotton-Seed-Hull Shavings and Cotton Linters.
Claims use since Jan. 31, 1920.

Ser. No. 128,288. (CLASS 39. CLOTHING.) HERMAN G. WENDLAND, Bay City, Mich. Filed Feb. 11, 1920.



No claim is made to the exclusive right to use words "Made for the Maid" except in connection with the trade-mark shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since Jan. 5, 1920.

Ser. No. 128,299. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MILTON L. ERNST, New York, N. Y. Filed Feb. 12, 1920.



No claim is made to the word "Paris" apart from the mark shown in the drawing.
Particular description of goods.—Imitation Pearl Strings.
Claims use since on or about the 15th day of December, 1919.

Ser. No. 128,326. (CLASS 38. PRINTS AND PUBLICATIONS.) THE ROYAL PATTERN CO., INC., New York, N. Y. Filed Feb. 12, 1920.

The CHILDREN'S COSTUME ROYAL

Particular description of goods.—Quarterly Publication.
Claims use since September, 1919.

Ser. No. 128,378. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITE HEAT PRODUCTS COMPANY, Frazer, Pa. Filed Feb. 13, 1920.

BATHITE

Particular description of goods.—Grindstones, Whetstones, and Abrasive Powder.
Claims use since Jan. 13, 1920.

Ser. No. 128,497. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

FRESHET

Particular description of goods.—Hose Made Wholly or Partly of Rubber.
Claims use since about October, 1916.

Ser. No. 128,499. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

TEXSTAN

Particular description of goods.—Machinery Packing Made Wholly or Partly of Rubber or Having Rubber Incorporated Therein.
Claims use since about Sept. 16, 1919.

Ser. No. 128,506. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HUDSON BELTING COMPANY, Worcester, Mass. Filed Feb. 17, 1920.

RAGAR

Particular description of goods.—Flat, Twisted, and Round Leather Belting.
Claims use since 1907.

Ser. No. 128,651. (CLASS 38. PRINTS AND PUBLICATIONS.) BERTRAND BROWN, New York, N. Y. Filed Feb. 20, 1920.

Musique Picturesque

The words "Musique Picturesque."
Particular description of goods.—Sheet-Music.
Claims use since Jan. 17, 1920.

Ser. No. 128,708. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Feb. 20, 1920.

Aphrodite

Particular description of goods.—Necklaces, Finger-Rings, Breastpins, Stick-Pins, Bar-Pins, Brooches, Bracelets, Ear-Rings, Lavalliéres, and Hair Ornaments Made Out of Pearls and Precious Metals.
Claims use since the 1st day of December, 1919.

Ser. No. 128,754. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK CANNING CO., Los Angeles, Calif. Filed Feb. 24, 1920.

HOTEL BRAND

No claim is made to the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Canned Vegetables—Namely, Canned Tomatoes, Canned String-Beans, and Canned Pumpkin; Canned Fruits—Namely, Canned Peaches and Canned Apricots.
Claims use since Sept. 1, 1918.

Ser. No. 128,784. (CLASS 39. CLOTHING.) LADY FAIR GOWN CO., Chicago, Ill. Filed Feb. 24, 1920.

Lady Fair

Particular description of goods.—Ladies' Clothing—Namely, Gowns, Capes, Dresses, Overskirts, Underskirts, Outer Waists and Underwaists.
Claims use since Nov. 21, 1917.

Ser. No. 128,790. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) METAL HOSE & TUBING CO. INC., Brooklyn, N. Y. Filed Feb. 24, 1920.

DUTIFLEX

Particular description of goods.—Fabric-Covered Rubber Hose with Metal Lining.
Claims use since Jan. 19, 1920.

Ser. No. 128,815. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN ASSOCIATION OF ENGINEERS, Chicago, Ill. Filed Feb. 24, 1920.

PROFESSIONAL ENGINEER

Particular description of goods.—Monthly Periodical.
Claims use since on or about Oct. 11, 1919.

Ser. No. 128,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY SIDE CANNING CO., Alviso, Calif. Filed Feb. 24, 1920.

BOHEMIAN BRAND

No claim is made to the use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits—Namely, Canned Apricots, Canned Peaches, Canned Pears, and Canned Vegetables—Namely, Canned Tomatoes and Canned Asparagus.
Claims use since July, 1906.

Ser. No. 128,871. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) N. ALPHONSE SIROIS, Ste. Anne de la Pocatière, Canada. Filed Feb. 24, 1920.



The portrait and signature shown being that of the applicant, no claim being made to the words "None Genuine without Signature," "Potion Antilaiteuse du," or "de Ste-Anne de la Pocatière Kamouraska" apart from the mark shown in the drawing.
Particular description of goods.—Medicinal Preparation to be Used as a Laxative or Antigalactic.
Claims use since January, 1914.

Ser. No. 129,063. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE HIRSCHY COMPANY, Minneapolis, Minn. Filed Mar. 1, 1920.

Hirschy

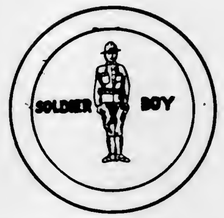
Particular description of goods.—Clothes-Washing Machines and Wringers.
Claims use since about the 20th day of January, 1917.

Ser. No. 129,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM EDWARDS LEE, Plant City, Fla. Filed Mar. 1, 1920.



Particular description of goods.—Fresh Fruits.
Claims use since about Oct. 5, 1918.

Ser. No. 129,067. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM EDWARDS LEE, Plant City, Fla. Filed Mar. 1, 1920.



Particular description of goods.—Fresh Fruits.
Claims use since about Oct. 5, 1918.

Ser. No. 129,068. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM EDWARDS LEE, Plant City, Fla. Filed Mar. 1, 1920.



Particular description of goods.—Fresh Citrus Fruit.
Claims use since about Oct. 5, 1918.

Ser. No. 129,073. (CLASS 15. OILS AND GREASES.) MOTOR OILS INC., Chicago, Ill. Filed Mar. 1, 1920.

"88"

Particular description of goods.—Lubricating-Oils, Gear-Greases and Cup-Greases.
Claims use since Sept. 5, 1919.

Ser. No. 129,075. (CLASS 2. RECEPTACLES.) THE NATIONAL MARINE LAMP COMPANY, Forestville, Conn., and New York, N. Y. Filed Mar. 1, 1920.

O·K·O

Particular description of goods.—Oil-Cans and Oilers.
Claims use since Jan. 15, 1920.

Ser. No. 129,198. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VERMOREL & RENDU, Lyon, France. Filed Mar. 3, 1920.

"LA LYONNAISE"



No claim is made to the words "La Lyonnaise" apart from the mark as shown in the drawing.
Particular description of goods.—Mincing-Machines.
Claims use since Apr. 26, 1919.

Ser. No. 129,241. (CLASS 2. RECEPTACLES.) MENGEL BOX COMPANY, Louisville, Ky. Filed Mar. 4, 1920.



Particular description of goods.—Fiber-Board and Corrugated Fiber Shipping Containers or Cartons.
Claims use since Jan. 23, 1920.

Ser. No. 129,332. (CLASS 38. PRINTS AND PUBLICATIONS.) MAIL AND EXPRESS COMPANY, New York, N. Y. Filed Mar. 6, 1920.

MUCH ADO
About
NOTHING

Particular description of goods.—Newspaper-Column Devoted to Humorous Current Comment.
Claims use since Jan. 19, 1917.

Ser. No. 129,341. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) PUFFER-HUBBARD MANUFACTURING COMPANY, Minneapolis, Minn. Filed Mar. 6, 1920.

Daylight

Particular description of goods.—Clothes-Washing Machines.
Claims use since about Jan. 1, 1916.

Ser. No. 129,530. (CLASS 39. CLOTHING.) ANTHRACITE HAT CO., Scranton, Pa. Filed Mar. 11, 1920.



No claim is made to the words "Qualita Extra Superiore" or "Venezia" and "Italia" apart from the mark shown by the drawing.
Particular description of goods.—Men's and Boys' Hats.
Claims use since July, 1919.

Ser. No. 129,572. (CLASS 39. CLOTHING.) L. E. ROSENFELD & CO., INC., New York, N. Y. Filed Mar. 11, 1920.

TruType
Sport Clothes

No claim is made to the words, "Sport Clothes" apart from the mark shown in the drawing.
Particular description of goods.—Ladies', Misses', and Juniors' Coats, Suits, Skirts, Wraps, Capes, and Dresses
Claims use since Mar. 1, 1919.

Ser. No. 129,603. (CLASS 38. PRINTS AND PUBLICATIONS.) PRO-DISTRIBUTORS PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 12, 1920.

THE BLACK MASK

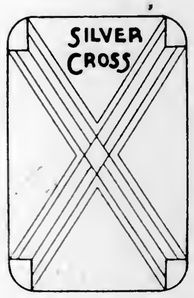
Particular description of goods.—Magazines or Periodicals Published Monthly.
Claims use since on or about Feb. 16, 1920.

Ser. No. 129,606. (CLASS 39. CLOTHING.) RITE MFG. CO., Cincinnati, Ohio. Filed Mar. 12, 1920.

RITE

No claim is made herein to the exclusive use of the word "Rite" apart from the mark shown in the drawing.
Particular description of goods.—Middy-Blouses and Middy-Dresses.
Claims use since Oct. 1, 1912.

Ser. No. 129,656. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild (Frequently Known Generically as Sardines.)
Claims use since about 1914.

Ser. No. 129,657. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.



Particular description of goods.—Brisling and Sild, (Frequently Known Generically as Sardines.)
Claims use since about 1907.

Ser. No. 129,662. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

Norse Bird

Particular description of goods.—Brisling and Sild, (Frequently Known Generically as Sardines.)
Claims use since about 1917.

Ser. No. 129,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway. Filed Mar. 13, 1920.

NORSE HELM

Particular description of goods.—Brisling and Sild. (Frequently Known Generically as Sardines.)
Claims use since about 1917.

Ser. No. 129,765. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WARNER-GODFREY CO., New York, N. Y. Filed Mar. 15, 1920.

Economy
Voile

Consisting of the words "Economy Voile" and the representation of a propeller within a triangle, no claim being made to the exclusive use of the word "Voile" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods—viz., Voile.
Claims use since January, 1919.

Ser. No. 129,912. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 18, 1920.

KIDALLS

Particular description of goods.—Overalls.
Claims use since Feb. 19, 1920.

Ser. No. 129,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Mar. 18, 1920.

COMETS

Particular description of goods.—Candy-Coated Chewing-Gum.
Claims use since Mar. 5, 1920.

Ser. No. 129,922. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BASSO CO., Chicago, Ill. Filed Mar. 19, 1920.



The upper third of the octagon being shaded to indicate red and the lower third of the octagon being shaded to indicate green.
Particular description of goods.—Cheese and Dried Sausages.
Claims use since July 1, 1910.

Ser. No. 129,949. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR O. NUTTALL, Chicago, Ill. Filed Mar. 19, 1920.

SERENE

Particular description of goods.—Tea.
Claims use since Feb. 25, 1920.

Ser. No. 129,973. (CLASS 39. CLOTHING.) WILLIAM M. FINCK & COMPANY, Detroit, Mich. Filed Mar. 20, 1920.



Particular description of goods.—Work-Clothing—Namely, Overalls, Work-Pants, Coats for Overalls, and One-Piece Combinations.
Claims use since Apr. 10, 1902.

Ser. No. 129,981. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK T. KREIN, Des Moines, Iowa. Filed Mar. 20, 1920.

ASP-A-LAX
K-B

Particular description of goods.—Tablets for the Treatment of Influenza, Colds, La Grippe, and Headache.
Claims use since the month of April, 1918.

Ser. No. 130,019. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE PRODUCING CO., Toledo, Ohio. Filed Mar. 22, 1920.

GREEN SEAL

Particular description of goods.—Fruit Butter, Peanut-Butter, Jams, and Jellies.
Claims use since Feb. 19, 1920.

Ser. No. 130,038. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUDSON COFFEE MILLS INC., New York, N. Y. Filed Mar. 22, 1920.

KO-WELLA



Particular description of goods.—Tea.
Claims use since 1914.

Ser. No. 130,058. (CLASS 39. CLOTHING.) PHORYLLES & SPERBER, New York, N. Y. Filed Mar. 22, 1920.

DOLCEY

Particular description of goods.—Children's Frocks and Rompers.
Claims use since Feb. 25, 1920.

Ser. No. 130,087. (CLASS 39. CLOTHING.) CAPITOL CAP COMPANY, Indianapolis, Ind. Filed Mar. 23, 1920.



Particular description of goods.—Caps and Hats for Men, Women, and Children.
Claims use since February, 1919.

Ser. No. 130,099. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HARVARD COMPANY, Lowell, Mass. Filed Mar. 23, 1920.

Harvard

The said trade-mark consists simply of the word "Harvard" in fancy script lettering, the final stroke of the letter "d" extending beneath a portion of the remaining letters of the word.
Particular description of goods.—A Cereal Non-Intoxicating Malt Beverage, Commonly Known as a Near Beer, the Alcoholic Content of Which Does Not Exceed One-Half of One Per Cent., by Volume.
Claims use since July 1, 1919.

Ser. No. 130,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUDSON COFFEE MILLS, INC., New York, N. Y. Filed Mar. 23, 1920.

Orange Blossom

Particular description of goods.—Tea.
Claims use since about Sept. 1, 1896.

Ser. No. 130,105. (CLASS 37. PAPER AND STATIONERY.) THE OTAKA FABRIC COMPANY, Hartford, Conn. Filed Mar. 23, 1920.

OTAKA

Particular description of goods.—Crinkled Paper Fabrics—Namely, Towels, Washrags, Napkins, Handkerchiefs, Blankets, Clothing-Linings, Bandages, Decorated Papers, Embossed Papers, Wrapping-Papers.
Claims use since on or about Feb. 12, 1920.

Ser. No. 130,140. (CLASS 39. CLOTHING.) HECO ENVELOPE COMPANY, Chicago, Ill. Filed Mar. 24, 1920.

HECO

Particular description of goods.—Paper Sleeve-Protectors.
Claims use since June, 1913.

Ser. No. 130,295. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) SMITH'S INVENTIONS INC., Minneapolis, Minn. Filed Mar. 27, 1920.

SMITH'S
INVENTIONS INC.

Particular description of goods.—Oxyacetylene and Hydrogen Welding and Cutting Equipment, Supplies, and Accessories Therefor—Namely, Preheating-Torches and Gasolene-Torches.
Claims use since about Apr. 1, 1919.

Ser. No. 130,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SYNVITA PRODUCTS COMPANY, Lima, Ohio. Filed Mar. 27, 1920.



Particular description of goods.—Flavoring Compounds for Foods.
Claims use since July 1, 1919.

Ser. No. 130,301. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TAYLOR BROTHERS, Camden, N. J. Filed Mar. 27, 1920.



Particular description of goods.—Automobile Accessories—viz., Spark-Plugs.
Claims use since Feb. 15, 1920.

Ser. No. 130,305. (CLASS 39. CLOTHING.) UNEXCELLED SHIRT CO., New York, N. Y. Filed Mar. 27, 1920.



The words "Brand" and "High-grade" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Men's Negligée Shirts.
Claims use since Mar. 1, 1920.

Ser. No. 130,333. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) NATIONAL HARMONICA COMPANY, Elmira, N. Y. Filed Mar. 29, 1920.

NAHACO

Particular description of goods.—Mouth-Organs.
Claims use since December, 1919.

Ser. No. 130,364. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. FOUGERA & CO., New York, N. Y. Filed Mar. 30, 1920.

FYNO

Particular description of goods.—Soap for Personal Use and Laundry Purposes.
Claims use since Mar. 1, 1920.

Ser. No. 130,394. (CLASS 15. OILS AND GREASES.) THE TODD OIL & PAINT CO., Cleveland, Ohio. Filed Mar. 30, 1920.

ToPCo

Particular description of goods.—Lubricating Oils and Greases.
Claims use since February, 1920.

Ser. No. 130,423. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE INSTANT FOOD COMPANY, Danbury, Conn., and New York, N. Y. Filed Mar. 31, 1920.



No claim is made to the words "Conservation," "Concentration," "Preservation," and "Instant Foods" apart from the mark as shown on the drawing.
Particular description of goods.—Clam Broth, Tomato Soup, Chicken Gumbo, Vegetable Soup, Onion Soup, Pea Soup, Corned-Beef Hash, and Roast-Beef Hash.
Claims use since February, 1920.

Ser. No. 130,495. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. E. SCHOENING CO. INC., New York, N. Y. Filed Apr. 1, 1920.

ELITE

Trade-mark consisting of the word "Elite."
Particular description of goods.—Musical-Instrument Strings.
Claims use since 1913.

Ser. No. 130,501. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 2, 1920.

CLOVER

Particular description of goods.—Lead-Pencils.
Claims use since January, 1908.

Ser. No. 130,516. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Apr. 2, 1920.

Poppy

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 25, 1920.

Ser. No. 130,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BALTIMORE PEARL HOMINY COMPANY, Baltimore, Md. Filed Apr. 5, 1920.

SUPERSYRUP

Particular description of goods.—Syrup for Sweetening Foods.
Claims use since March 13, 1920.

Ser. No. 130,640. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BALTIMORE PEARL HOMINY COMPANY, Baltimore, Md. Filed Apr. 5, 1920.

YUMMY

Particular description of goods.—Table-Syrup and Syrup for Sweetening Foods.
Claims use since Nov. 25, 1919.

Ser. No. 130,643. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) P. W. BROWNING, Washington, D. C. Filed Apr. 5, 1920.

Blue Mill

Particular description of goods.—Coffee.
Claims use since March, 1917.

Ser. No. 130,776. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SYLVESTER & LEVY, INC., New York, N. Y. Filed Apr. 7, 1920.

Artmade

The use of the word "Fabrics" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Cotton Cloths in the Piece.
Claims use since Feb. 4, 1920.

Ser. No. 130,777. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WALTER TAYLOR, Hammondsport, N. Y. Filed Apr. 7, 1920.

GRAPE VINAR

Particular description of goods.—Unfermented Grape-Juice.
Claims use since on or about the 1st day of October, 1919.

Ser. No. 130,799. (CLASS 46. (FOODS AND INGREDIENTS OF FOODS.) CARLISLE BROS., Minneapolis, Minn. Filed Apr. 8, 1920.

BUBBLES

Particular description of goods.—Chocolate Candy.
Claims use since on or about the 25th day of November, 1919.

Ser. No. 130,800. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARLISLE BROS., Minneapolis, Minn. Filed Apr. 8, 1920.

TRUE AMERICAN

Particular description of goods.—Candy.
Claims use since on or about the 25th day of November, 1919.

Ser. No. 130,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE D. L. CLARK COMPANY, Pittsburgh, Pa. Filed Apr. 9, 1920.

CLARK'S TEABERRY
IT'S ON THE LEVEL

Particular description of goods.—Chewing-gum.
Claims use since July 1, 1911.

Ser. No. 130,885. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EUREKA VACUUM CLEANER COMPANY, Detroit, Mich. Filed Apr. 9, 1920.

EUREKA

Particular description of goods.—Electric Vacuum-Cleaners.
Claims use since Jan. 1, 1910.

Ser. No. 130,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAZLETON BAKING CO., Hazleton, Pa. Filed Apr. 9, 1920.

KRISPY-KRUST

Particular description of goods.—Bread and Rolls.
Claims use since Mar. 16, 1916.

Ser. No. 130,913. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. OESTERREICHER & CO., New York, N. Y. Filed Apr. 9, 1920.

QUALITY

No claim is made to the word "Quality" apart from the mark shown in the drawing. The drawing is not lined for color, and the shade lines shown are intended to represent only shading.
Particular description of goods.—Brond Silks in the Piece, Charmeuses, Taffetas, Crêpe de Chine, Georgettes, Velvets.
Claims use since Jan. 1, 1917.

Ser. No. 130,944. (CLASS 26 MEASURING AND SCIENTIFIC APPLIANCES.) LOUIS V. ARONSON, Newark, N. J. Filed Apr. 10, 1920.

MOTOR HEART

Particular description of goods.—Temperature-Indicators for Automobile-Radiators.
Claims use since January, 1920.

Ser. No. 130,953. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY COMPANY, Cleveland, Ohio. Filed Apr. 10, 1920.

Ouija Bar

No claim being made to the word "Bar" apart from the trade-mark shown.
Particular description of goods.—Candy.
Claims use since July, 1918.

Ser. No. 130,956. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY COMPANY, Cleveland, Ohio. Filed Apr. 10, 1920.

HIGH MOGUL

Particular description of goods.—Candy.
Claims use since August, 1915.

Ser. No. 130,957. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY COMPANY, Cleveland, Ohio. Filed Apr. 10, 1920.

SAMBO BAR

No claim being made to the word "Bar" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since July, 1918.

Ser. No. 130,996. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y. Filed Apr. 10, 1920. Under ten-year proviso.

SYRACUSE

Particular description of goods.—Non-Ferrous Alloys.
Claims use since about 1890.

Ser. No. 130,999. (CLASS 39. CLOTHING.) JOSEPH P. VOORHEES, New York, N. Y. Filed Apr. 10, 1920.



Particular description of goods.—Hosiery.
Claims use since Mar. 2, 1920.

Ser. No. 131,035. (CLASS 15. OILS AND GREASES.) MORGO OIL CO., Buffalo, N. Y. Filed Apr. 12, 1920.

"MORGO"

Particular description of goods.—Lubricating-Oil.
Claims use since Jan. 28, 1919.

Ser. No. 131,051. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) VESTA BATTERY CORPORATION, Chicago, Ill. Filed Apr. 12, 1920.

VESTA

Particular description of goods.—Electric Batteries—Namely, Ignition, Starting, and Lighting Batteries for Automobiles; Electric Lamps for Automobiles—Namely, Headlights, Spot-Lights, Side Lights, Pillar-Lights, Dome-Lights, Tail and Rear Lights, Gage-Lamps, and Trouble-Lamps, and Electric Generators and Starters for Automobiles.
Claims use since Oct. 1, 1917.

Ser. No. 131,085. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) NICHOLS COPPER CO., New York, N. Y. Filed Apr. 13, 1920.

L.N.S.

Particular description of goods.—Electrolytic Copper.
Claims use since 1895.

Ser. No. 131,109. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GENERAL AMERICAN TANK CAR CORPORATION, Chicago, Ill. Filed Apr. 14, 1920.



Particular description of goods.—Tank-Cars.
Claims use since on or about the 1st day of January, 1902.

Ser. No. 131,133. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRIPPE, BARKER & CO., New York, N. Y. Filed Apr. 14, 1920.

YEAR ROUND ZEPHYR

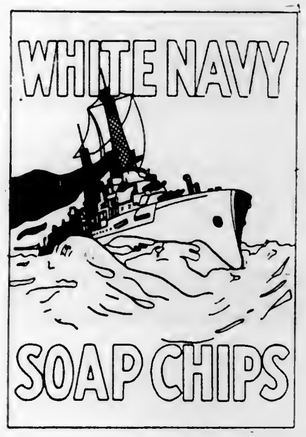
The word "Zephyr" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Cotton Cloth in the Piece.
Claims use since about Oct. 31, 1918.

Ser. No. 131,136. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRIPPE, BARKER & CO., New York, N. Y. Filed Apr. 14, 1920.

NOTAWOL

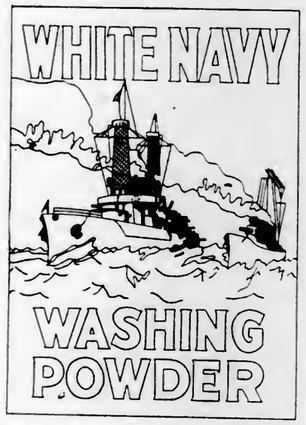
Particular description of goods.—Cotton Skirtings in the Piece.
Claims use since about Apr. 21, 1919.

Ser. No. 131,195. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WEST COAST SOAP CO., Oakland, Calif. Filed Apr. 15, 1920.



No claim is made to the words "Soap Chips" apart from the mark shown in the drawing.
Particular description of goods.—Soap Chips.
Claims use since Nov. 28, 1919.

Ser. No. 131,196. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WEST COAST SOAP CO., Oakland, Calif. Filed Apr. 15, 1920.



No claim is made to the words "Washing Powder" apart from the mark shown in the drawing.
Particular description of goods.—Washing-Powder.
Claims use since Nov. 28, 1919.

Ser. No. 131,197. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILDROOT CO. INC., Buffalo, N. Y. Filed Apr. 15, 1920.

WILDROOT

Particular description of goods.—A Shampoo-Soap in Liquid and Solid Form.
Claims use since about Feb. 28, 1911.

Ser. No. 131,209. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CLOX-LITE MFG. COMPANY INC., Newark, N. J. Filed Apr. 16, 1920.



Particular description of goods.—Automatic Circuit-Controllers.
Claims use since Apr. 5, 1920.

Ser. No. 131,236. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE SAMPSON APPLIANCE CORPORATION, New York, N. Y. Filed Apr. 16, 1920.



No claim is made for the words "Expand," "Contract," or "Stoppers" apart from the mark as shown in the drawing.
Particular description of goods.—Closers for Bottles.
Claims use since Jan. 1, 1918.

Ser. No. 131,245. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUGUSTA ICE & BEVERAGE COMPANY, Augusta, Ga. Filed Apr. 17, 1920.

MALXTASE

Particular description of goods.—Baker's Syrup for Food Purposes.
Claims use since Apr. 10, 1920.

Ser. No. 131,255. (CLASS 39. CLOTHING.) THOMAS BROWN & CO. (LEICESTER) LIMITED, Leicester, England. Filed Apr. 17, 1920.

PANDORA

Particular description of goods.—Ladies' Boots, Shoes, and Slippers.
Claims use since May, 1905.

Ser. No. 131,256. (CLASS 39. CLOTHING.) THOMAS BROWN & CO. (LEICESTER) LIMITED, Leicester, England. Filed Apr. 17, 1920.

NUFORMO

Particular description of goods.—Boots and Shoes.
Claims use since Mar. 11, 1909.

Ser. No. 131,267. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG CO., Green Bay, Wis. Filed Apr. 17, 1920.



Particular description of goods.—Toilet-Paper.
Claims use since May 15, 1915.

Ser. No. 131,271. (CLASS 39. CLOTHING.) KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Apr. 17, 1920.



Particular description of goods.—Shoes.
Claims use since Nov. 1, 1919.

Ser. No. 131,292. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) W. MORGAN WILLIAMS, Lavonia, Ga. Filed Apr. 17, 1920.



No claim is made for the words "Orng-Kola" apart from the mark shown in the drawing.
Particular description of goods.—Non-Alcoholic Syrups and Beverages Made Therefrom.
Claims use since Apr. 14, 1920.

Ser. No. 131,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETERPACK CANNING COMPANY, Decoto, Calif. Filed Apr. 19, 1920.

G. R. F BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruit and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FILICE & PERRELLI CANNING CO., Gilroy, Calif. Filed Apr. 19, 1920.

F and P

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July, 1914.

Ser. No. 131,342. (CLASS 39. CLOTHING.) THOMAS J. MULCAHY, New York, N. Y. Filed Apr. 19, 1920.

SPAT-O-SILK

The word "Spat-O-Silk."
Particular description of goods.—Hosiery and Women's Underwear of Silk and Textile Fabrics in One and Two Piece Garments.
Claims use since Mar. 17, 1920.

Ser. No. 131,356. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD CANNING CO. LTD., Stavanger, Norway, and Long Beach, Calif. Filed Apr. 19, 1920.



Particular description of goods.—Canned Fish.
Claims use since Nov. 20, 1919.

Ser. No. 131,360. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN LEANDRO CANNING CO., San Leandro, Calif. Filed Apr. 19, 1920.

P & T

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1920.

Ser. No. 131,364. (CLASS 39. CLOTHING.) UNITED MILLS COMPANY, Louisville, Ky. Filed Apr. 19, 1920.



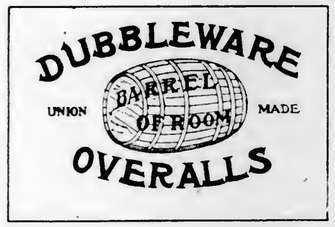
Particular description of goods.—Hosiery.
Claims use since Apr. 1, 1920.

Ser. No. 131,403. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GERALD N. SMITH, Pittsburgh, Pa. Filed Apr. 20, 1920.

WHITE-WASH

"White-Wash."
Particular description of goods.—Soap, Soap Jelly, Soap Powder, and Soap Flakes.
Claims use since Jan. 28, 1920.

Ser. No. 131,482. (CLASS 39. CLOTHING.) MAX HOFFMAN, Boston, Mass. Filed Apr. 22, 1920.



No claim is made to the words "Union Made" and "Overalls."
Particular description of goods.—Overalls, Jumpers, Pants, and Jackets.
Claims use since Mar. 15, 1920.

Ser. No. 131,491. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1920.

CLAIRLOCH

"Clairloch."
Particular description of goods.—Gingham Piece Goods.
Claims use since January, 1919.

Ser. No. 131,494. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1920.

M. F. C.

"M. F. C."
Particular description of goods.—Gingham Piece Goods.
Claims use since January, 1909.

Ser. No. 131,495. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1920.

VALMORE

"Valmore."
Particular description of goods.—Gingham Piece Goods.
Claims use since January, 1909.

Ser. No. 131,506. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) STANDARD MUSIC ROLL CO., Orange, N. J. Filed Apr. 22, 1920.

ORIOLE

Particular description of goods.—Talking-Machine Records and Prepared Music Sheets and Rolls.
Claims use since Mar. 18, 1920.

Ser. No. 131,529. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KULLMAN, SALZ & CO., San Francisco, Calif. Filed Apr. 23, 1920. Under ten-year proviso.



Particular description of goods.—Hides and Leather.
Claims use since Aug. 20, 1892.

Ser. No. 131,546. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE WISCONSIN CHAIR COMPANY, Port Washington, Wis. Filed Apr. 23, 1920.



Particular description of goods.—Phonographs and Phonograph-Records, Record-Albums, Reproducers, and Needles.
Claims use since Mar. 15, 1920.

Ser. No. 131,695. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Apr. 27, 1920.

SEVEN SEAS

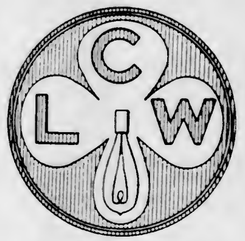
Particular description of goods.—Pearl Buttons for Wearing-Apparel.
Claims use since Mar. 25, 1920.

Ser. No. 131,738. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FRANK P. KIBBEY, Junction City, Kans. Filed Apr. 28, 1920.



Particular description of goods.—Phonographs.
Claims use since Jan. 1, 1919.

Ser. No. 131,779. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CONTINENTAL LAMP WORKS, INC., New York, N. Y. Filed Apr. 29, 1920.



The trade-mark shown is to be done in color—namely, red.
Particular description of goods.—Incandescent Electric Lamps.
Claims use since Mar. 15, 1920.

Ser. No. 131,780. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Apr. 29, 1920.

STENTOR

Particular description of goods.—Tool-Steel.
Claims use since October, 1908.

Ser. No. 131,808. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) FELIX LAUTER, Albany, N. Y. Filed Apr. 29, 1920.

EBOLITE

Particular description of goods.—Cane, Parasol, and Umbrella Handles.
Claims use since Apr. 12, 1920.

Ser. No. 131,833. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SPRINGVILLE CANNING CO., Springville, N. Y. Filed Apr. 29, 1920.

THREE QUEENS BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1914.

Ser. No. 131,861. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) COLLINGS & COMPANY, Newark, N. J. Filed Apr. 30, 1920.

AZO

Particular description of goods.—Talking-Machine Needles.
Claims use since April, 1912.

Ser. No. 131,911. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MILLS BROTHERS COMPANY, Cincinnati, Ohio. Filed May 1, 1920.

ZANOL

Particular description of goods.—Toilet Soap, Shaving-Soap, Shaving-Cream for Use Before Shaving, Shampoo-Soap, and Metal-Polish.
Claims use since Sept. 3, 1910.

Ser. No. 131,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED S. AMER & COMPANY, LIMITED, New Orleans, La. Filed May 3, 1920.

OLE MAMMY

Particular description of goods.—Candy.
Claims use since June 5, 1918.

Ser. No. 132,100. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 6, 1920.

CALYXITE

Particular description of goods.—Chilled-Steel Globules Used as the Cutting Medium with Core-Drills.
Claims use since the 16th day of December, 1919.

Ser. No. 132,121. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed May 6, 1920.

TIBE-FUR

Consists of the word "Tibe-Fur."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 15, 1920.

Ser. No. 132,125. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed May 6, 1920.

"SUPER-SEAL"

Consists of the word "Super-Seal."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Mar. 15, 1920.

Ser. No. 132,164. (CLASS 37. PAPER AND STATIONERY.) WILLIAM CAMPBELL WALL PAPER CO., Hackensack, N. J. Filed May 8, 1920.

Duratile

Particular description of goods.—Wall-Paper.
Claims use since August, 1919.

Ser. No. 132,165. (CLASS 37. PAPER AND STATIONERY.) WILLIAM CAMPBELL WALL PAPER CO., Hackensack, N. J. Filed May 8, 1920.

Du-o-tone

Particular description of goods.—Wall-Paper.
Claims use since August, 1919.

Ser. No. 132,215. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Filed May 8, 1920.

WASHANREDE

Particular description of goods.—Plain White, Dyed, or Printed Cotton Piece Goods.
Claims use since Dec. 21, 1916.

Ser. No. 132,260. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NADAY & FLEISCHER, INC., New York, N. Y. Filed May 10, 1920.

BARBIZON VOILE

Consisting of the words "Barbizon Voile," no claim being made to the exclusive use of the word "Voile" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 23, 1920.

Ser. No. 132,346. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y. Filed May 12, 1920.

Melodisc

Particular description of goods.—Phonograph-Records.
Claims use since Feb. 7, 1920.

Ser. No. 132,351. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GENERAL MANUFACTURING CORPORATION, Milwaukee, Wis. Filed May 12, 1920.

Lorelei

Particular description of goods.—Phonographs.
Claims use since Mar. 6, 1920.

Ser. No. 132,388. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLT & COMPANY, New York, N. Y. Filed May 13, 1920.

HONRADA

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 16, 1910.

Ser. No. 132,496. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WASHINGTON STEEL AND ORDNANCE COMPANY, Washington, D. C. Filed May 15, 1920.



CAPITOL

Particular description of goods.—Drop-Forgings in the Form of Unfinished Goods.
Claims use since Nov. 1, 1919.

Ser. No. 132,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS, BARUCH & CO., Los Angeles, Calif. Filed May 17, 1920.

IRIS



Particular description of goods.—Rolled Oats.
Claims use since Apr. 17, 1920.

Ser. No. 132,566. (CLASS 37. PAPER AND STATIONERY.) SAUQUOIT TOILET PAPER COMPANY, INC., New Hartford, N. Y. Filed May 17, 1920.

PLAYMATE

Particular description of goods.—Toilet-Paper.
Claims use since Apr. 7, 1920.

Ser. No. 132,721. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANADIAN-AMERICAN CEREAL PRODUCTS CO., New York and Buffalo, N. Y., and New Orleans, La. Filed May 21, 1920.

IMPLACABLE

Particular description of goods.—Wheat-Flour.
Claims use since about Aug. 15, 1914.

Ser. No. 132,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANADIAN-AMERICAN CEREAL PRODUCTS CO., New York and Buffalo, N. Y., and New Orleans, La. Filed May 21, 1920.

ILLUSTRIOUS

Particular description of goods.—Wheat-Flour.
Claims use since about Aug. 15, 1914.

Ser. No. 132,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANADIAN-AMERICAN CEREAL PRODUCTS CO., New York and Buffalo, N. Y., and New Orleans, La. Filed May 21, 1920.

VALIANT

Particular description of goods.—Wheat-Flour.
Claims use since about Aug. 15, 1914.

Ser. No. 132,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANADIAN-AMERICAN CEREAL PRODUCTS CO., New York and Buffalo, N. Y., and New Orleans, La. Filed May 21, 1920.

FLOWER OF AMERICA

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 15, 1914.

Ser. No. 132,727. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANADIAN-AMERICAN CEREAL PRODUCTS CO., New York and Buffalo, N. Y., and New Orleans, La. Filed May 21, 1920.

THUNDERER

Particular description of goods.—Wheat-Flour.
Claims use since about Aug. 15, 1914.

Ser. No. 132,729. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANNON VALLEY MILLING COMPANY, Minneapolis, Minn. Filed May 21, 1920.

WINSOME

Particular description of goods.—Wheat-Flour.
Claims use since June 2, 1913.

Ser. No. 132,731. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANNON VALLEY MILLING COMPANY, Minneapolis, Minn. Filed May 21, 1920.

SKY PILOT

Particular description of goods.—Wheat-Flour.
Claims use since Oct. 26, 1908.

Ser. No. 132,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANNON VALLEY MILLING COMPANY, Minneapolis, Minn. Filed May 21, 1920.

"C-V" BEST

Particular description of goods.—Wheat-Flour.
Claims use since September, 1915.

Ser. No. 132,850. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANNON VALLEY MILLING COMPANY, Minneapolis, Minn. Filed May 24, 1920.

INVADER

Particular description of goods.—Wheat-Flour.
Claims use since Apr. 30, 1920.

Ser. No. 132,961. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALDOSTA MILL & ELEVATOR CO., Valdosta, Ga. Filed May 25, 1920.

VALMECO

Particular description of goods.—Cornmeal
Claims use since May 1, 1920.

TRADE-MARK REGISTRATIONS GRANTED

JUNE 22, 1920.

132,279. SALVE FOR TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. ELIZABETH J. ALBRECHT, Prosser, Wash.
Filed November 3, 1919. Serial No. 124,508. PUBLISHED APRIL 13, 1920.

132,280. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. ALLIED MACHINERY COMPANY OF AMERICA, New York, N. Y.
Filed October 28, 1919. Serial No. 124,249. PUBLISHED MARCH 23, 1920.

132,281. MEDICINE FOR CRAMP, DIARRHEA, SUMMER COMPLAINT, AND KINDRED DISEASES. ALPERN AND BLACHSCHLAGER CHEMICAL COMPANY, Cincinnati, Ohio.
Filed August 22, 1919. Serial No. 121,885. PUBLISHED MARCH 16, 1920.

132,282. CANNED FRUITS — NAMELY, CANNED PEACHES AND CANNED PEARS; CANNED VEGETABLES—NAMELY, CANNED TOMATOES AND CANNED STRING-BEANS, AND CANNED FISH—NAMELY, CANNED SARDINES AND CANNED SALMON. AMALGAMATED TRADING COMPANY, San Francisco, Calif.
Filed January 6, 1920. Serial No. 126,837. PUBLISHED MARCH 30, 1920.

132,283. SUGAR TABLETS AND LOZENGES FLAVORED WITH ESSENTIAL OILS AND FRUIT-JUICES. AMERICAN CONFECTIONERY SYNDICATE, INC., New York, N. Y., assignor to Buddy Buds, Inc., a Corporation of Delaware.
Filed April 10, 1919. Serial No. 117,312. PUBLISHED MARCH 23, 1920.

132,284. FIRE-ENGINES, WATER-TOWERS, MOTOR-DRIVEN FIRE APPARATUS, CHEMICAL FIRE APPARATUS, AND HAND FIRE-EXTINGUISHERS. AMERICAN LA FRANCE FIRE ENGINE CO., INC., Elmira, N. Y.
Filed January 2, 1919. Serial No. 114,941. PUBLISHED MAY 6, 1919.

132,285. BOYS', YOUTHS', AND CHILDREN'S OUTER SUITS, COATS, AND PANTS. AMERICAN NOVELTY WASH SUIT CO., INC., New York, N. Y.
Filed May 3, 1919. Serial No. 118,101. PUBLISHED MARCH 30, 1920.

132,286. BABY-POWDER. CHAS. AMMEN CO. LTD., Alexandria, La.
Filed December 30, 1919. Serial No. 126,609. PUBLISHED APRIL 13, 1920.

132,287. CANVAS OUTING-SHOES. APSLEY RUBBER COMPANY, Hudson, Mass.
Filed October 8, 1919. Serial No. 123,530. PUBLISHED MARCH 16, 1920.

132,288. WASHING COMPOUND. HARRY W. ARNOR, Lewiston, Idaho.
Filed September 18, 1919. Serial No. 122,804. PUBLISHED MARCH 16, 1920.

132,289. COFFEE. J. ARON & COMPANY, INC., New Orleans, La.
Filed January 14, 1920. Serial No. 127,104. PUBLISHED MARCH 30, 1920.

132,290. NON-ALCOHOLIC NON-INTOXICATING MALTLESS NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK. ARROW PRODUCTS CO., Peoria, Ill.
Filed December 12, 1919. Serial No. 125,871. PUBLISHED MARCH 9, 1920.

132,291. WHITE PETROLATUMS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed October 6, 1919. Serial No. 123,469. PUBLISHED MARCH 16, 1920.

132,292. CERTAIN NAMED OINTMENTS, PETROLEUM JELLY, AND REFINED LANOLIN. ATRIKEN CHEMICAL WORKS, New Brunswick, N. J.
Filed December 5, 1919. Serial No. 125,593. PUBLISHED MARCH 30, 1920.

132,293. CANNED FRUITS—NAMELY, CANNED APRICOTS, CANNED PEARS, CANNED PEACHES; CANNED VEGETABLES—NAMELY, CANNED TOMATOES. BAY SIDE CANNING CO., Alviso, Calif.
Filed December 15, 1919. Serial No. 126,000. PUBLISHED MARCH 30, 1920.

132,294. FRAMES OF SPECTACLES AND EYE-GLASSES. BAY STATE OPTICAL COMPANY, Saco, Me., and Attleboro, Mass.
Filed February 24, 1920. Serial No. 128,818. PUBLISHED MARCH 30, 1920.

132,295. ANTISEPTIC FOR USE IN THE NOSE. JOSEPH O. BEAUCHAMP, Springfield, Mass.
Filed October 1, 1919. Serial No. 123,300. PUBLISHED APRIL 13, 1920.

132,296. PASTE AND READY-MIXED PAINTS AND VARNISHES. THE BEAVER VARNISH COMPANY, Buffalo, N. Y.
Filed September 8, 1919. Serial No. 122,423. PUBLISHED JANUARY 6, 1920.

132,297. MEMORANDUM-TABLETS. ROBT. J. BELL, Richmond, Va., assignor to Bell's Auto Memo Co., Incorporated, Richmond, Va., a Corporation of Virginia.
Filed September 5, 1919. Serial No. 122,335. PUBLISHED MARCH 23, 1920.

132,298. SHEETING. BENCOE IMPORTING AND EXPORTING CO., INC., New York, N. Y.
Filed March 3, 1919. Serial No. 116,249. PUBLISHED MARCH 23, 1920.

132,299. MEDICATED INHALANT, A NERVE AND BLOOD TONIC, A STOMACH MEDICINE, AND AN ASTHMA MEDICINE. VICTOR BENEDIX, Columbus, Ohio.
Filed October 20, 1919. Serial No. 123,956. PUBLISHED MARCH 30, 1920.

132,300. WORM-EXPELLER, HORSE-TONIC, CATTLE-TONIC, HOG-TONIC, AND HOG-DIP. HENRY B. BERNARD, Jefferson, S. D.
Filed October 4, 1919. Serial No. 123,419. PUBLISHED APRIL 6, 1920.

132,301. SUITS AND COATS FOR WOMEN. BERNSTEIN, BAUM, DA COSTA COMPANY, Philadelphia, Pa.
Filed September 26, 1919. Serial No. 123,153. PUBLISHED MARCH 16, 1920.

132,302. TOILET POWDER. GEORGE BORGFELDT & CO., New York, N. Y.
Filed December 24, 1918. Serial No. 114,797. PUBLISHED MARCH 16, 1920.

132,303. RECONSTRUCTIVE TONIC. BOSAK MANUFACTURING CO., Scranton, Pa.
Filed March 30, 1920. Serial No. 130,356. PUBLISHED APRIL 20, 1920.

132,304. RECONSTRUCTIVE TONIC. BOSAK MANUFACTURING CO., Scranton, Pa.
Filed March 30, 1920. Serial No. 130,357. PUBLISHED APRIL 20, 1920.

132,305. RECONSTRUCTIVE TONIC. BOSAK MANUFACTURING CO., Scranton, Pa.
Filed March 30, 1920. Serial No. 130,358. PUBLISHED APRIL 20, 1920.

132,306. HAIR-RESTORER. MAX BRAUNBERG, Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,603. PUBLISHED APRIL 13, 1920.

132,307. PERSPIRATION-COUNTERACTOR. ROY W. BRIDGMAN, San Jose, Calif.
Filed October 17, 1919. Serial No. 123,872. PUBLISHED APRIL 6, 1920.

132,308. DIGESTANTS AND MEDICINAL PREPARATIONS ADAPTED FOR THE TREATMENT OF DYSPEPSIA, INDIGESTION, OR SIMILAR DISEASES. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed December 31, 1919. Serial No. 126,670. PUBLISHED MARCH 16, 1920.

132,309. MEDICINAL PREPARATION TO BE USED AS A DENTIFRICE. BROWN'S TOOTH POWDER COMPANY, San Francisco, Calif.
Filed November 28, 1919. Serial No. 125,362. PUBLISHED APRIL 6, 1920.

132,310. MANICURING-OIL, NAIL-POLISH, AND FINGER-NAIL POLISH. EDWARD BURNHAM, Chicago, Ill.
Filed December 4, 1919. Serial No. 125,560. PUBLISHED MARCH 30, 1920.

132,311. PERFUME, TOILET WATER, ROUGE, AND FACE-POWDER. EDWARD BURNHAM, Chicago, Ill.
Filed December 5, 1919. Serial No. 125,597. PUBLISHED MARCH 30, 1920.

132,312. ANTISEPTIC DEMULCENT CORRECTIVE DESIGNED FOR THE TREATMENT OF INTESTINAL DISORDERS, ESPECIALLY THOSE OF CHILDREN. BURWELL & DUNN CO., Charlotte, N. C.
Filed December 2, 1919. Serial No. 125,489. PUBLISHED MARCH 30, 1920.

132,313. MALARIAL REMEDY AND TONIC. BURWELL & DUNN CO., Charlotte, N. C.
Filed December 2, 1919. Serial No. 125,490. PUBLISHED MARCH 30, 1920.

132,314. CHEMICAL CARBON-PREVENTIVE OR GAS-INTENSIFIER FOR USE IN HYDROCARBON LIQUID FUELS. CHARLES A. BUTLER, Toledo, Ohio.
Filed November 13, 1919. Serial No. 124,844. PUBLISHED APRIL 13, 1920.

132,315. CHEMICAL CARBON-PREVENTIVE OR GAS-INTENSIFIER FOR USE IN HYDROCARBON LIQUID FUELS. CHARLES A. BUTLER, Toledo, Ohio.
Filed November 13, 1919. Serial No. 124,845. PUBLISHED APRIL 13, 1920.

132,316. POWDER-PUFFS. THE C. & K. MFG. CO., New Haven, Conn.
Filed August 15, 1919. Serial No. 121,691. PUBLISHED JANUARY 27, 1920.

132,317. MEDICINE FOR DISEASE OF THE EYE. LEONARDO CACCIATORE, New York, N. Y.
Filed October 28, 1919. Serial No. 124,259. PUBLISHED MARCH 30, 1920.

132,318. CANNED VEGETABLES AND DRIED FRUITS. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed July 20, 1917. Serial No. 105,145. PUBLISHED SEPTEMBER 23, 1919.

132,319. LEATHER-BLACKINGS AND LEATHER-DRESSINGS. GEORGE H. CAPEN, Canton Junction, Mass.
Filed September 18, 1917. Serial No. 106,294. PUBLISHED MARCH 23, 1920.

132,320. CHEMICAL FIRE-EXTINGUISHING COMPOUND. CARBONA PRODUCTS COMPANY, New York, N. Y.
Filed October 25, 1919. Serial No. 124,167. PUBLISHED APRIL 13, 1920

132,321. OVERALLS. CARSON, PIRIE, SCOTT & CO., Chicago, Ill., assignor to Carson, Pirie, Scott & Company, Chicago, Ill., a Corporation of Illinois.
Filed December 18, 1916. Serial No. 100,004. PUBLISHED JANUARY 20, 1920.

132,322. CASEIN GLUES OR ADHESIVES. THE CASEIN MANUFACTURING COMPANY, New York, N. Y.
Filed December 17, 1919. Serial No. 126,172. PUBLISHED MARCH 23, 1920.

132,323. COMPOUND CREAM OF TARTAR. CAVERLY-PLUMER COMPANY, Lynn, Mass.
Filed August 1, 1918. Serial No. 112,458. PUBLISHED JUNE 3, 1919.

132,324. HEAT-INSULATING SEMIREFRACTORY FILLING AND STRUCTURAL MATERIAL IN POWDER, GRANULAR, CEMENT, BRICK, OR BLOCK FORM. CELITE PRODUCTS COMPANY, Los Angeles, Calif.
Filed March 26, 1918. Serial No. 109,794. PUBLISHED MARCH 16, 1920.

132,325. HEAT-INSULATING SEMIREFRACTORY MATERIAL AND A STRUCTURAL MATERIAL IN BRICK OR BLOCK FORM. CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y.
Filed November 18, 1919. Serial No. 125,048. PUBLISHED MARCH 16, 1920.

132,326. MATERIAL USED FOR A HEAT-INSULATING SEMIREFRACTORY FILLING AND A STRUCTURAL MATERIAL IN GRANULAR FORM. CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y.
Filed November 18, 1919. Serial No. 125,047. PUBLISHED MARCH 16, 1920.

132,327. CERTAIN NAMED ARTICLES OF CLOTHING FOR WOMEN'S WEAR. CHANDLER & CO., INC., Boston, Mass.
Filed October 14, 1919. Serial No. 123,772. PUBLISHED MARCH 16, 1920.

132,328. CLEANING COMPOUND FOR REMOVING ROAD OILS AND TARS FROM AUTOMOBILES AND CLOTHING. R. O. R. CHEMICAL CO., Red Lion, Pa.
Filed June 29, 1918. Serial No. 111,886. PUBLISHED FEBRUARY 11, 1919.

132,329. FABRICS OF SILK AND SILK MIXTURES. CHENEY BROTHERS, South Manchester, Conn.
Filed September 25, 1919. Serial No. 123,113. PUBLISHED MARCH 23, 1920.

132,330. CANNED FRUITS—NAMELY, CANNED APRICOTS AND CANNED PEACHES; CANNED VEGETABLES—NAMELY, CANNED TOMATOES. CHINA, JAPAN & SOUTH AMERICA TRADING CO., LTD., San Francisco, Calif.
Filed January 20, 1920. Serial No. 127,356. PUBLISHED MARCH 30, 1920.

132,331. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 30, 1919. Serial No. 126,617. PUBLISHED MARCH 16, 1920.

132,332. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 30, 1919. Serial No. 126,620. PUBLISHED MARCH 16, 1920.

132,333. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 30, 1919. Serial No. 126,624. PUBLISHED MARCH 16, 1920.

132,334. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 30, 1919. Serial No. 126,625. PUBLISHED MARCH 16, 1920.

132,335. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 31, 1919. Serial No. 126,671. PUBLISHED MARCH 16, 1920.

132,336. REAMERS, METAL-CUTTING DRILLS, MILLING-CUTTERS, PUNCHES FOR PUNCHING METAL, AND METAL-FORMING DIES. CHROBALTIC TOOL COMPANY, Chicago, Ill.
Filed August 18, 1919. Serial No. 121,751. PUBLISHED MARCH 23, 1920.

132,337. COTTON PIECE GOODS. CHUCK, DAVIS & CO., New York, N. Y.
Filed November 29, 1919. Serial No. 125,419. PUBLISHED MARCH 23, 1920.

132,338. LADIES' WAISTS AND COLLARS. J. & M. COHN INC., New York, N. Y.
Filed December 9, 1919. Serial No. 125,746. PUBLISHED MARCH 9, 1920.

132,339. CUT GLASS AND ARTISTIC GLASSWARE. CORNING GLASS WORKS, Corning, N. Y.
Filed November 19, 1919. Serial No. 125,075. PUBLISHED MARCH 16, 1920.

132,340. CUT GLASS AND ARTISTIC GLASSWARE. CORNING GLASS WORKS, Corning N. Y.
Filed November 19, 1919. Serial No. 125,076. PUBLISHED MARCH 16, 1920.

132,341. BOOTS AND SHOES OF LEATHER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. J. & T. COUSINS CO., Brooklyn, N. Y.
Filed December 29, 1919. Serial No. 126,558. PUBLISHED MARCH 30, 1920.

132,342. PLAYER-PIANOS AND MUSIC-SHEETS THEREFOR AND TALKING-MACHINES AND PHONOGRAPHS. THE CRIPPEN COMPANY INC., New York, N. Y.
Filed December 6, 1919. Serial No. 125,652. PUBLISHED MARCH 23, 1920.

132,343. CANNED FRUITS AND VEGETABLES AND FRUIT JAMS. CROKER PACKING CO., San Francisco, Calif.
Filed January 20, 1920. Serial No. 127,358. PUBLISHED MARCH 30, 1920.

132,344. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE, SOLD AS A SOFT DRINK, AND SYRUP FOR MAKING THE SAME. JULIA H. CROME, Clinton, Mo.
Filed August 25, 1919. Serial No. 121,970. PUBLISHED MARCH 16, 1920.

132,345. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, AND FORGINGS. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa.
Filed September 4, 1919. Serial No. 122,282. PUBLISHED MARCH 23, 1920.

132,346. LIQUID POLISH FOR VARNISHED AND ENAMELED SURFACES. CULLEN-STEVENS CO., Duluth, Minn.
Filed September 20, 1919. Serial No. 122,933. PUBLISHED FEBRUARY 10, 1920.

132,347. MENTHOL SALVE. DAVIS & LAWRENCE COMPANY, New York, N. Y.
Filed October 4, 1919. Serial No. 123,432. PUBLISHED APRIL 13, 1920.

132,348. CLEANER AND POLISHER FOR PHONOGRAPH-RECORDS. NELSON C. DAVIS, Winchester, Mass.
Filed December 16, 1919. Serial No. 126,111. PUBLISHED MARCH 23, 1920.

132,349. SOLDER. WILLIAM A. DAY, Bellingham, Wash.
Filed November 10, 1919. Serial No. 124,714. PUBLISHED MARCH 30, 1920.

132,350. LUBRICATING-OILS AND LUBRICATING-GREASES. DEARBORN CHEMICAL COMPANY, Chicago, Ill.
Filed December 15, 1919. Serial No. 126,011. PUBLISHED MARCH 16, 1920.

132,351. TOOTH-PASTE. AUGUSTO H. DE GOENAGA, Detroit, Mich.
Filed December 29, 1919. Serial No. 126,563. PUBLISHED APRIL 13, 1920.

132,352. PRESERVED CHERRIES. DR. ENRICO PARODI DELFINO, Milan, Italy.
Filed February 2, 1918. Serial No. 108,768. PUBLISHED MARCH 2, 1920.

132,353. HAIR-TONIC AND HAIR-GROWING PREPARATION. VELLA DELL, New York, N. Y.
Filed October 29, 1919. Serial No. 124,297. PUBLISHED MARCH 16, 1920.

132,354. BAKING-POWDER. JOHN A. DE LUCA, St. Helena, Md.
Filed November 19, 1919. Serial No. 125,081. PUBLISHED APRIL 6, 1920.

132,355. FRESH APPLES. DENNEY & CO., Chicago, Ill.
Filed January 20, 1920. Serial No. 127,359. PUBLISHED MARCH 30, 1920.

132,356. COMPLEXION-POWDER, COMPLEXION-CREAM, TALCUM POWDER, TOILET WATER, AND ALMOND CREAM. THE DEPREE CHEMICAL COMPANY, Holland, Mich.
Filed November 17, 1919. Serial No. 124,978. PUBLISHED MARCH 30, 1920.

132,357. PREPARATION TO PRESERVE AND RENEW PLATENS. DETER-SOL SALES COMPANY, Denver, Colo.
Filed November 11, 1919. Serial No. 124,750. PUBLISHED APRIL 6, 1920.

132,358. NON-INTOXICATING NON-CEREAL MALTLESS BEVERAGE. H. T. DEWEY & SONS CO., New York, N. Y.
Filed September 5, 1919. Serial No. 122,343. PUBLISHED MARCH 9, 1920.

132,359. WASHING COMPOUND. THE P. W. BRACKETT AND SONS COMPANY, Cincinnati, Ohio.
Filed September 25, 1919. Serial No. 123,115. PUBLISHED MARCH 30, 1920.

132,360. TONIC LAXATIVE FOR CONSTIPATION, SLUGGISH LIVER, HEADACHE, BILIOUSNESS, AND INDIGESTION. THE J. W. DUFFEE MFG. CO., Washington Court House, Ohio.
Filed October 27, 1919. Serial No. 124,204. PUBLISHED MARCH 16, 1920.

132,361. HOSIERY. JAMES H. DUNHAM & CO., New York, N. Y.
Filed November 4, 1919. Serial No. 124,517. PUBLISHED MARCH 16, 1920.

132,362. WATERPROOFED TEXTILE FABRIC. THE DURATEX COMPANY, Newark, N. J.
Filed August 8, 1919. Serial No. 121,385. PUBLISHED MARCH 16, 1920.

132,363. BEVERAGE-DISPENSING VALVES. CHARLES M. EARL, Detroit, Mich.
Filed December 15, 1919. Serial No. 126,015. PUBLISHED MARCH 30, 1920.

132,364. PHOTOGRAPHIC FILM. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 18, 1919. Serial No. 126,209. PUBLISHED MARCH 2, 1920.

132,365. CHEMICAL COMPOUND FOR USE IN THE MANUFACTURE OF BEVERAGES. ECONOMIC MATERIALS CO., Chicago, Ill.
Filed August 18, 1919. Serial No. 121,761. PUBLISHED MARCH 30, 1920.

132,366. HAIR-SHAMPOO. THE EDISON LABORATORIES, Chicago, Ill.
Filed October 24, 1919. Serial No. 124,137. PUBLISHED APRIL 6, 1920.

132,367. LACQUERS. E. I. DE DUPONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed July 10, 1919. Serial No. 120,413. PUBLISHED JANUARY 6, 1920.

132,368. SKIN-LOTION. NATHAN ERBER, Fort Wayne, Ind.
Filed October 11, 1919. Serial No. 123,688. PUBLISHED APRIL 6, 1920.

132,369. REMEDY FOR PYORRHEA. NICHOLAS FARMAKIS, Orange, N. J.
Filed August 18, 1919. Serial No. 121,764. PUBLISHED MARCH 30, 1920.

132,370. UNDERWEAR FOR MEN, INCLUDING ONE-PIECE GARMENTS AND TWO-PIECE GARMENTS. HERMAN B. FERGUSON, New York, N. Y.
Filed September 7, 1918. Serial No. 113,058. PUBLISHED MARCH 30, 1920.

132,371. HAIR-COLORING FOR THE BEARD AND HAIR. PANAFIEU PERE ET FILS, Paris, France.
Filed December 22, 1919. Serial No. 126,331. PUBLISHED APRIL 13, 1920.

132,372. NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS THEREFOR. FLORIDA FRUIT JUICE CO., INC., New York, N. Y.
Filed June 14, 1919. Serial No. 119,597. PUBLISHED MARCH 9, 1920.

132,373. BUTTER-SERVING MACHINES. FOOD APPLIANCES MANUFACTURING CORPORATION, Rochester, N. Y.
Filed January 7, 1920. Serial No. 126,898. PUBLISHED MARCH 16, 1920.

132,374. FLAT INTERIOR OIL-PAINT. FORT WAYNE DRUG COMPANY, Fort Wayne, Ind.
Filed September 10, 1919. Serial No. 122,531. PUBLISHED FEBRUARY 3, 1920.

132,375. RUBBER SOLES AND RUBBER HEELS. FOSTER RUBBER COMPANY, Kennebunk, Me., and Boston, Mass.
Filed November 6, 1916. Serial No. 99,120. PUBLISHED MARCH 9, 1920.

132,376. NON-ALCOHOLIC HERB BEVERAGE. FRANK & LEWIS COMPANY, McKeesport, Pa.
Filed November 4, 1919. Serial No. 124,519. PUBLISHED MARCH 9, 1920.

132,377. SKIN-EMOLLIENT. LEWIS FRIEND, New York, N. Y.
Filed November 22, 1919. Serial No. 125,177. PUBLISHED APRIL 13, 1920.

132,378. CERTAIN NAMED GAMES, TOYS, AND SPORTING GOODS. ISAAC FULD, Baltimore, Md.
Filed April 30, 1919. Serial No. 118,009. PUBLISHED AUGUST 26, 1919.

132,379. CERTAIN NAMED MACHINERY AND TOOLS. FULTON TOOL WORKS, Huntington, W. Va.
Filed April 2, 1919. Serial No. 117,114. PUBLISHED MARCH 30, 1920.

132,380. LADIES' HATS. GAGE BROTHERS & COMPANY, Chicago, Ill.
Filed October 10, 1919. Ser. No. 123,639. PUBLISHED JANUARY 27, 1920.

132,381. CERTAIN NAMED TOILET PREPARATIONS. LEON GAWURIN, New York, N. Y.
Filed November 28, 1919. Serial No. 125,380. PUBLISHED APRIL 6, 1920.

132,382. CERTAIN NAMED TOILET PREPARATIONS. LEON GAWURIN, New York, N. Y.
Filed November 28, 1919. Serial No. 125,381. PUBLISHED APRIL 6, 1920.

132,383. INSECTICIDE. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed November 18, 1919. Serial No. 125,052. PUBLISHED APRIL 6, 1920.

132,384. LIQUID INSECTICIDE. THE GETS 'EM CO., Tifton, Ga.
Filed November 20, 1919. Serial No. 125,109. PUBLISHED APRIL 6, 1920.

132,385. CANNED SALMON AND CANNED OYSTERS. GETZ BROS. & CO., San Francisco, Calif.
Filed August 14, 1915. Serial No. 88,617. PUBLISHED NOVEMBER 23, 1915.

132,386. WOODEN POLES USED ON TELEGRAPH, TELEPHONE, TRACTION, AND POWER LINES. WILLIS H. GILBERT, Chicago, Ill.
Filed November 3, 1919. Serial No. 124,481. PUBLISHED MARCH 16, 1920.

132,387. RAZOR-STROPS. THE GIBFORD-WEIFFENBACH COMPANY, Adrian, Mich.
Filed September 27, 1919. Serial No. 123,207. PUBLISHED MARCH 23, 1920.

132,388. SYNTHETIC PEARLS AND BEADS AND NECKLACES OF THE SAME. GIMBEL BROTHERS INCORPORATED, Philadelphia, Pa.
Filed January 7, 1920. Serial No. 126,900. PUBLISHED MARCH 16, 1920.

132,389. SARDINES. GLOBE CANNING CO., Eastport and North Lubec, Me.
Filed June 3, 1918. Serial No. 111,340. PUBLISHED SEPTEMBER 16, 1919.

132,390. COLORING FOR THE HAIR. JOHN GOLDMAN, Philadelphia, Pa.
Filed December 22, 1919. Serial No. 126,320. PUBLISHED APRIL 13, 1920.

132,391. BURLAPS, DUCKS, DRILLS, SHEETINGS, TWILLS, AND CANTON-FLANNELS. GOODIN REID & CO., New York, N. Y.
Filed September 15, 1919. Serial No. 122,727. PUBLISHED MARCH 23, 1920.

132,392. MEDICINE FOR USE IN THE TREATMENT OF TUBERCULOSIS. ROBERT JOHN KNOX GORE, Detroit, Mich.
Filed December 4, 1919. Serial No. 125,569. PUBLISHED MARCH 30, 1920.

132,393. ANILINS AND DYESTUFFS. W. R. GRACE & Co., New York, N. Y., and San Francisco, Calif.
Filed November 5, 1919. Serial No. 124,569. PUBLISHED MARCH 16, 1920.

132,394. LAXATIVE. THE GRANOLAX COMPANY, New York, N. Y.
Filed November 19, 1919. Serial No. 125,086. PUBLISHED APRIL 6, 1920.

132,395. [WITHDRAWN.]

132,396. TEA. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed December 22, 1919. Serial No. 126,315. PUBLISHED MARCH 30, 1920.

132,397. BAKING-POWDER. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed December 22, 1919. Serial No. 126,319. PUBLISHED APRIL 13, 1920.

132,398. REINFORCED PAPER FOR WRAPPING AND PACKAGING ARTICLES. JAMES A. GREENLEE, Chicago, Ill.
Filed August 14, 1919. Serial No. 121,665. PUBLISHED MARCH 2, 1920.

132,399. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. GREENSBURG BREWING COMPANY, Greensburg, Pa.
Filed June 21, 1919. Serial No. 119,828. PUBLISHED DECEMBER 9, 1919.

132,400. WOOLEN BLANKETS AND WOOLEN CLOTH IN THE PIECE. GUMBINSKY BROS. COMPANY, Chicago, Ill.
Filed September 29, 1919. Serial No. 123,243. PUBLISHED MARCH 23, 1920.

132,401. COTTON PIECE GOODS. EUGENE GUTMAN & Co., New York, N. Y.
Filed October 18, 1919. Serial No. 123,928. PUBLISHED MARCH 23, 1920.

132,402. MIXED GRAIN FEEDS FOR CALVES AND PIGS. HALES & EDWARDS COMPANY, Chicago, Ill.
Filed March 14, 1919. Serial No. 116,567. PUBLISHED APRIL 20, 1920.

132,403. TURPENTINE. A/S DET ALMINDELIGE HANDELSKOMPAGNI, Copenhagen, Denmark.
Filed September 3, 1919. Serial No. 122,240. PUBLISHED FEBRUARY 24, 1920.

132,404. SILK FABRIC IN THE PIECE AND RIBBONS IN THE PIECE. HANSELMANN-JOHNSON COMPANY, Cincinnati, Ohio.
Filed April 24, 1919. Serial No. 117,806. PUBLISHED MARCH 23, 1920.

132,405. MEDICINAL COMPOUND FOR THE TREATMENT OF COLDS, NEURALGIA, GRIPPE, AND HEADACHE. EDWARD VERELLE HARRISON, Greensboro, N. C.
Filed November 6, 1919. Serial No. 124,605. PUBLISHED MARCH 16, 1920.

132,406. CHAMOIS-SKINS. ALBERT HART, New York, N. Y.
Filed October 18, 1919. Serial No. 123,930. PUBLISHED MARCH 16, 1920.

132,407. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. YOZO HATTORI, Los Angeles, Calif.
Filed November 28, 1919. Serial No. 125,382. PUBLISHED MARCH 30, 1920.

132,408. CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. JOHN HAUENSTEIN, New Ulm, Minn.
Filed December 15, 1919. Serial No. 126,023. PUBLISHED MARCH 23, 1920.

132,409. DENTIFRICE. JOEL E. HAWLEY, Kansas City, Mo.
Filed October 6, 1919. Serial No. 123,483. PUBLISHED FEBRUARY 3, 1920.

132,410. GLAZED KID. HENWOOD & NOWAK, INC., Boston, Mass.
Filed February 11, 1919. Serial No. 115,764. PUBLISHED MARCH 16, 1920.

132,411. MEDICINE FOR USE IN THE TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. JOHN L. HERPICH, Columbus, Ohio.
Filed November 11, 1919. Serial No. 124,776. PUBLISHED MARCH 16, 1920.

132,412. MEDICINAL PREPARATION FOR TREATING DISEASES OF THE STOMACH, LIVER, KIDNEY, BILIOUS AFFECTIONS, AND CONSTIPATION. HERMA L. HICKS, Rocky Mount, N. C.
Filed October 16, 1919. Serial No. 123,852. PUBLISHED APRIL 13, 1920.

132,413. LIQUID PREPARATION FOR TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. GEORGE JOSEPH HORNUNG, West New York, N. J.
Filed October 9, 1919. Serial No. 123,581. PUBLISHED MARCH 16, 1920.

132,414. COTTON GOODS IN THE PIECE, WOOLEN GOODS IN THE PIECE, SILK GOODS IN THE PIECE, AND RIBBONS IN THE PIECE. HUGHES & COMPANY, (EXPORT CORPORATION,) New York, N. Y.
Filed July 22, 1919. Serial No. 120,794. PUBLISHED MARCH 2, 1920.

132,415. PREPARATION FOR THE TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. HUMPHREYS HOMEOPATHIC MEDICINE CO., New York, N. Y.
Filed October 24, 1919. Serial No. 124,142. PUBLISHED MARCH 16, 1920.

132,416. HOMEOPATHIC MEDICINES FOR THE TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. HUMPHREYS HOMEOPATHIC MEDICINE CO., New York, N. Y.
Filed October 28, 1919. Serial No. 124,270. PUBLISHED APRIL 13, 1920.

132,417. WITCH-HAZEL AND OINTMENT CONTAINING WITCH-HAZEL. HUMPHREYS HOMEOPATHIC MEDICINE CO., New York, N. Y.
Filed October 28, 1919. Serial No. 124,272. PUBLISHED MARCH 16, 1920.

132,418. NON-INTOXICATING MALTLESS CEREAL BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. THE INDIANAPOLIS BREWING CO., Indianapolis, Ind.
Filed July 5, 1917. Serial No. 104,857. PUBLISHED FEBRUARY 3, 1920.

132,419. OUTER WORK-SHIRTS AND OVERALLS. INDUSTRIAL GARMENT CO., Chicago, Ill., assignor to The Maryland Company, Baltimore, Md., a firm composed of Harry E. Weinberg and Morris Sneider.
Filed April 14, 1919. Serial No. 117,455. PUBLISHED JULY 8, 1919.

132,420. CORSETS, BRASSIÈRES, BUST-SUPPORTERS, AND CORSET-WAISTS. IVY CORSET COMPANY, Worcester, Mass.
Filed January 7, 1918. Serial No. 108,341. PUBLISHED FEBRUARY 10, 1920.

132,421. MEDICINAL PREPARATION. JAS. E. JAMESON, Detroit, Mich.
Filed November 17, 1919. Serial No. 124,994. PUBLISHED APRIL 13, 1920.

132,422. POMADE FOR THE SCALP AND HAIR. JIFFIE-STRAIGHT COMPANY, INCORPORATED, Petersburg, Va.
Filed November 20, 1919. Serial No. 125,113. PUBLISHED APRIL 6, 1920.

132,423. RIBBONS IN THE PIECE. JOHNSON, COWDIN AND CO., INC., New York, N. Y.
Filed October 23, 1919. Serial No. 124,114. PUBLISHED MARCH 23, 1920.

132,424. CLEANSING PREPARATION FOR WHITE LEATHER AND FABRIC SHOES, GLOVES, AND BELTS. EDWARD H. JOHNSON, Trenton, N. J.
Filed August 29, 1919. Serial No. 122,124. PUBLISHED MARCH 16, 1920.

132,425. LINIMENT FOR SWOLLEN JOINTS, RHEUMATISM, HEADACHE, AND NEURALGIA AND A MEDICINE FOR RHEUMATISM AND PARALYSIS. NATHAN G. JOHNSON, Atmore, Ala.
Filed November 26, 1919. Serial No. 125,332. PUBLISHED APRIL 6, 1920.

132,426. COLD-CREAMS, HAIR-TONICS, AND SHAMPOOS. WILLIAM KAHN, St. Louis, Mo.
Filed October 20, 1919. Serial No. 123,984. PUBLISHED MARCH 16, 1920.

132,427. WORM AND INSECT EXTERMINATOR. WILLIAM KEA, Dublin, Ga.
Filed November 25, 1919. Serial No. 125,286. PUBLISHED APRIL 6, 1920.

132,428. EGGS. KENDAL & SLUSSER, Mentor township, Lake county, Ohio.
Filed December 9, 1919. Serial No. 125,753. PUBLISHED MARCH 30, 1920.

132,429. POWDERED PREPARATION ADMINISTERED INTERNALLY TO HORSES AND OTHER LIVE STOCK FOR CERTAIN NAMED AILMENTS. KEWLEY BROS., Battle Creek, Mich.
Filed October 23, 1919. Serial No. 124,116. PUBLISHED MARCH 16, 1920.

132,430. TOILET AND LAUNDRY SOAP. JAMES S. KIRK & COMPANY, Chicago, Ill.
Filed November 22, 1919. Serial No. 125,185. PUBLISHED MARCH 23, 1920.

132,431. LADIES' SILK CAMISOLES. KIRSCHNER HENDLER CO., New York, N. Y.
Filed September 5, 1919. Serial No. 122,360. PUBLISHED MARCH 30, 1920.

132,432. PREPARATION FOR USE IN THE PREVENTION AND TREATMENT OF INFECTIOUS DISEASES. GUSTAV KLEMPERER, New York, N. Y.
Filed December 26, 1919. Serial No. 126,474. PUBLISHED APRIL 13, 1920.

132,433. NON-INTOXICATING, MALTLESS, NON-CEREAL BEVERAGE, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, SOLD AS A SOFT DRINK. JOSEPH KRIEG-FINK CO., INC., Jersey City, N. J.
Filed October 20, 1919. Serial No. 123,986. PUBLISHED JANUARY 6, 1920.

132,434. SKIN-SOAP. LAMAR, TAYLOR & RILEY DRUG CO., Macon, Ga.
Filed November 25, 1919. Serial No. 125,288. PUBLISHED MARCH 23, 1920.

132,435. LEATHER AND FABRIC GLOVES. LANGENBERG HAT COMPANY, St. Louis, Mo.
Filed March 14, 1919. Serial No. 116,579. PUBLISHED MARCH 30, 1920.

132,436. CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. LAUBHEIM BROS. New York, N. Y.
Filed December 16, 1919. Serial No. 126,130. PUBLISHED MARCH 23, 1920.

132,437. POWDER FOR CLEANING AND SCOURING FLOORS, KITCHEN UTENSILS, NICKEL, BRASS, AND LIKE METALS. THE LEKKO SOAP COMPANY, Chicago, Ill.
Filed September 27, 1918. Serial No. 113,451. PUBLISHED SEPTEMBER 30, 1919.

132,438. IDLERS AND ROLLS FOR CONVEYING MACHINERY. LINK-BELT COMPANY, Chicago, Ill., Philadelphia, Pa., and Indianapolis, Ind.
Filed December 30, 1919. Serial No. 126,641. PUBLISHED MARCH 16, 1920.

132,439. SPROCKET-CHAINS AND DRIVING-CHAINS FOR AGRICULTURAL AND OTHER MACHINERY AND APPARATUS. THE LOCKE STEEL CHAIN COMPANY, Bridgeport, Conn.
Filed December 6, 1918. Serial No. 114,510. PUBLISHED MARCH 23, 1920.

132,440. SOAP. LOUISVILLE FOOD PRODUCTS COMPANY, Louisville, Ky.
Filed December 4, 1919. Serial No. 125,572. PUBLISHED MARCH 23, 1920.

132,441. SOLUTIONS OF MEDICINAL ARSENICAL COMPOUNDS, PARTICULARLY DERIVATIVES OF ARSENO-BENZOL. LOWY LABORATORY, INC., Hoboken, N. J.
Filed November 17, 1919. Serial No. 125,000. PUBLISHED MARCH 30, 1920.

132,442. OIL-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,068. PUBLISHED MARCH 30, 1920.

132,443. GREASE-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,060. PUBLISHED MARCH 30, 1920.

132,444. GREASE-CUPS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed September 24, 1919. Serial No. 123,071. PUBLISHED MARCH 30, 1920.

132,445. MEDICINAL PREPARATIONS FOR EXTERNAL USE IN SKIN DISEASES, AND FOR PREVENTING CHAFING AND SKIN IRRITATION. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,295. PUBLISHED APRIL 13, 1920.

132,446. MEDICINAL PREPARATIONS FOR EXTERNAL USE FOR THE TREATMENT OF CERTAIN NAMED AILMENTS. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,296. PUBLISHED APRIL 13, 1920.

132,447. MEDICINAL PREPARATIONS FOR GERMICIDAL PURPOSES, AND FOR TREATMENT OF MINOR AFFECTIONS OF THROAT AND MOUTH. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,297. PUBLISHED APRIL 13, 1920.

132,448. PREPARATIONS FOR REPELLING MOSQUITOS AND HEALING THEIR BITES. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,298. PUBLISHED APRIL 13, 1920.

132,449. MEDICINAL PREPARATIONS FOR CERTAIN SKIN DISORDERS AND AS A BLOOD-PURIFIER. MCKESSON & ROBBINS INC., New York, N. Y.
Filed November 25, 1919. Serial No. 125,299. PUBLISHED APRIL 13, 1920.

132,450. ORANGE-JUICE SOLD AS A NON-INTOXICATING, NON-ALCOHOLIC, MALTLESS, NON-CEREAL SOFT DRINK. EDWARD CHARLES MCMANUS, San Francisco, Calif.
Filed December 15, 1919. Serial No. 126,049. PUBLISHED MARCH 9, 1920.

132,451. RUBBER TIRES. THE MAJESTIC TIRE & RUBBER CO., Indianapolis, Ind.
Filed September 15, 1919. Serial No. 122,719. PUBLISHED MARCH 2, 1920.

132,452. MEDICINAL TABLETS USED IN THE TREATMENT OF DISEASES OF THE BILIARY SYSTEM. THE MALTBIE CHEMICAL COMPANY, Newark, N. J.
Filed November 12, 1919. Serial No. 124,805. PUBLISHED MARCH 23, 1920.

132,453. ABRASIVE OR GRINDING BELTS. MANNING ABRASIVE COMPANY INC., Troy, N. Y.
Filed November 20, 1919. Serial No. 125,118. PUBLISHED MARCH 23, 1920.

132,454. TACKLE AND PULLEY-BLOCKS. MARINE DECKING & SUPPLY CO., Philadelphia and Easton, Pa.
Filed September 6, 1919. Serial No. 122,401. PUBLISHED MARCH 23, 1920.

132,455. WAX POLISH. MARSHALL OIL COMPANY, Marshalltown, Iowa.
Filed November 12, 1917. Serial No. 107,332. PUBLISHED FEBRUARY 24, 1920.

132,456. FARM-TRACTORS. MARTIN-SCOTT ENGINEERING CO., New York, N. Y.
Filed October 4, 1919. Serial No. 123,448. PUBLISHED MARCH 30, 1920.

132,457. CERTAIN NAMED CLOTHING. M. N. MAYEHOFF & CO., INCORPORATED, Norwalk, Conn.
Filed November 28, 1919. Serial No. 125,392. PUBLISHED MARCH 9, 1920.

132,458. LIQUID HEART-TONIC COMPOUND CONTAINING APOCYNUM, CACTUS, AND OTHER DRUGS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 30, 1919. Serial No. 126,647. PUBLISHED APRIL 13, 1920.

132,459. DEODORANT AND ANTISEPTIC POWDERS. MIAMI CHEMICAL CO., Cincinnati, Ohio.
Filed November 13, 1919. Serial No. 124,862. PUBLISHED MARCH 30, 1920.

132,460. NON-ALCOHOLIC NON-CEREAL MALTLESS ORANGE-FLAVORED CONCENTRATED SYRUP USED AS A FLAVOR FOR CARBONATED SOFT DRINK. THE MICKEY COMPANY, Hanover, Pa.
Filed February 17, 1920. Serial No. 128,514. PUBLISHED MARCH 30, 1920.

132,461. MEDICATED TABLETS USED AS A LAXATIVE. CHESTER S. MILLS, Pittsburgh, Pa.
Filed November 26, 1919. Serial No. 125,335. PUBLISHED APRIL 6, 1920.

132,462. CANNED FRUITS AND CANNED TOMATOES. OLAF A. NELSON, San Francisco, Calif.
Filed January 20, 1920. Serial No. 127,390. PUBLISHED MARCH 30, 1920.

132,463. CANNED FRUITS AND CANNED TOMATOES. OLAF A. NELSON, San Francisco, Calif.
Filed January 20, 1920. Serial No. 127,391. PUBLISHED MARCH 30, 1920.

132,464. STRUCTURAL STEEL AND IRON—NAMELY, BEAMS, CHANNELS, ANGLES, PLATES, GIRDERS, COLUMNS, AND TRUSSES. NEW ENGLAND STRUCTURAL COMPANY, Boston, Mass.
Filed August 18, 1919. Serial No. 121,773. PUBLISHED MARCH 16, 1920.

132,465. LADIES' FLAT UNDERWEAR IN ONE, TWO, AND THREE PIECE GARMENTS. FRED NEWMARK, New York, N. Y.
Filed August 19, 1919. Serial No. 121,815. PUBLISHED MARCH 9, 1920.

132,466. CERTAIN NAMED CLOTHING. THE NICHOLS UNDERWEAR CORPORATION, Bridgeport, Conn.
Filed December 6, 1919. Serial No. 125,668. PUBLISHED MARCH 9, 1920.

132,467. POLISH FOR FURNITURE AND VARNISHED AND ENAMELED SURFACES. NU-RAY POLISH MANUFACTURING CO., Provo, Utah.
Filed August 19, 1919. Serial No. 121,814. PUBLISHED DECEMBER 2, 1919.

132,468. OLEOMARGARIN. NUT-GROVE BUTTER COMPANY, Providence, R. I.
Filed January 20, 1920. Serial No. 127,393. PUBLISHED MARCH 30, 1920.

132,469. INSECTICIDES. NUMBER 13 CHEMICAL CO., Hoboken, N. J.
Filed November 6, 1919. Serial No. 124,617. PUBLISHED MARCH 16, 1920.

132,470. REMEDY FOR CERTAIN NAMED AILMENTS AND CERTAIN NAMED TOILET PREPARATIONS. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed December 31, 1919. Serial No. 126,694. PUBLISHED APRIL 13, 1920.

132,471. DEPILATORIES. ONEIDA CORPORATION, Chicago, Ill.
Filed November 12, 1919. Serial No. 124,809. PUBLISHED APRIL 6, 1920.

132,472. BOILER-PRESERVER. PETER L. O'NEILL, Jersey City, N. J.
Filed October 17, 1919. Serial No. 123,902. PUBLISHED MARCH 16, 1920.

132,473. HOSIERY. ORANGE HOSIERY MILLS, Orange, N. J.
Filed November 19, 1919. Serial No. 125,092. PUBLISHED MARCH 9, 1920.

132,474. GARDEN, FLOWER, VEGETABLE, FIELD, FARM, AND GRASS SEEDS. C. S. OSBURN & CO., Newark, Ohio.
Filed October 25, 1919. Serial No. 124,186. PUBLISHED MARCH 23, 1920.

132,475. BOYS' OVERALLS, PLAY-SUITS, BOYS' WAISTS, KNEE-PANTS, AND ROMPERS. H. OSTROWSKY CO., Chicago, Ill.
Filed November 20, 1919. Serial No. 125,124. PUBLISHED FEBRUARY 10, 1920.

132,476. COMPOUNDS FOR TREATING CERTAIN NAMED DISEASES AND AFFECTIONS. THE OWL DRUG COMPANY, Decatur, Ala.
Filed November 7, 1919. Serial No. 124,663. PUBLISHED MARCH 23, 1920.

132,477. RUBBER AND RUBBER-COMPOSITION HEELS. PANTHER RUBBER MANUFACTURING COMPANY, Stoughton and Chelsea, Mass.
Filed December 19, 1919. Serial No. 126,259. PUBLISHED MARCH 30, 1920.

132,478. PAINT-OIL. PARA-CRUDE OIL CORP., New York, N. Y.
Filed October 11, 1919. Serial No. 123,710. PUBLISHED FEBRUARY 3, 1920.

132,479. MIXED FOOD FOR HOGS. THE PARK & POLLARD COMPANY, Boston, Mass.
Filed November 28, 1919. Serial No. 125,360½. PUBLISHED MARCH 30, 1920.

132,480. GENERAL SYSTEM-TONIC AND BLOOD MEDICINE. THE PARZON PHARMACAL COMPANY, Dayton, Ohio.
Filed November 10, 1919. Serial No. 124,731. PUBLISHED MARCH 16, 1920.

132,481. ROOFING-PAINTS AND METAL PAINTS. THE PHILIP CAREY MANUFACTURING COMPANY, Lockland, Ohio.
Filed October 16, 1918. Serial No. 113,750. PUBLISHED SEPTEMBER 30, 1919.

132,482. TONIC PREPARATION FOR TREATMENT OF CERTAIN NAMED DISEASES AND AFFECTIONS. PHIL D. PHILLIPS, Spencer, W. Va.
Filed November 5, 1919. Serial No. 124,576. PUBLISHED MARCH 30, 1920.

132,483. HAIR-DRESSING. ABRAHAM PLOUGH, Memphis, Tenn.
Filed November 15, 1919. Serial No. 124,952. PUBLISHED MARCH 30, 1920.

132,484. ALLOYS OF COPPER, TIN, AND ZINC AND PHOSPHOR-BRONZE IN INGOTS, CASTINGS, AND FINISHED FORMS. THE PHOSPHOR BRONZE SMELTING COMPANY, Philadelphia, Pa.
Filed January 26, 1918. Serial No. 108,655. PUBLISHED MARCH 16, 1920.

132,485. ALLOYS OF COPPER, TIN, AND ZINC AND PHOSPHOR-BRONZE IN INGOTS, CASTINGS, AND FINISHED FORMS. THE PHOSPHOR BRONZE SMELTING COMPANY, Philadelphia, Pa.
Filed January 26, 1918. Serial No. 108,656. PUBLISHED MARCH 16, 1920.

132,486. HAIR-TONICS. EMMA J. PHINIZEE, New York, N. Y.
Filed October 28, 1919. Serial No. 124,285. PUBLISHED MARCH 16, 1920.

132,487. RUBBER HEELS FOR BOOTS AND SHOES. PLYMOUTH RUBBER COMPANY, Canton, Mass.
Filed November 7, 1919. Serial No. 124,665. PUBLISHED MARCH 30, 1920.

132,488. LAXATIVE TABLETS. LEONARD H. POCKMAN, San Francisco, Calif.
Filed September 27, 1919. Serial No. 123,220. PUBLISHED APRIL 13, 1920.

132,489. ORTHOPEDIC SHOES AND SHOES OF SPECIAL DESIGN IN CONNECTION WITH PODIATRY WORK. THE PODIATRY SHOE COMPANY, INC., New York, N. Y.
Filed April 12, 1919. Serial No. 117,413. PUBLISHED AUGUST 26, 1919.

132,490. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. THE POMPEIAN MFG. CO. (now by change of name The Pompeian Company), Cleveland, Ohio.
Filed November 10, 1919. Serial No. 124,730. PUBLISHED APRIL 13, 1920.

132,491. PICTURES TO BE PROJECTED UPON A SCREEN, BOTH STILL AND ANIMATED; MOTION-PICTURE FILMS, MACHINES FOR TAKING AND PROJECTING PICTURES, AND SCREENS UPON WHICH PICTURES ARE PROJECTED. POST PICTURES CORPORATION, New York, N. Y.
Filed October 28, 1919. Serial No. 124,283. PUBLISHED MARCH 23, 1920.

132,492. OVERALLS, COATS, PANTS, KNEE-PANTS, DRESS-SHIRTS, WORK-SHIRTS, RAINCOATS, SLICKERS, ROMPERS, GLOVES OF FABRIC AND LEATHER, AND HOSIERY. PYRAMID CLOTHING MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 27, 1919. Serial No. 124,232. PUBLISHED MARCH 16, 1920.

132,493. CREAMS AND PASTE FOR THE TEETH. QUEISSER & Co., Gesellschaft mit beschränkter Haftung, Hamburg, Germany.
Filed November 10, 1919. Serial No. 124,732. PUBLISHED APRIL 6, 1920.

132,494. CREAM FOR THE SKIN, PARTICULARLY AN OINTMENT SERVING FOR IMPROVEMENT OF THE SKIN. QUEISSER & Co., Gesellschaft mit beschränkter Haftung, Hamburg, Germany.
Filed November 10, 1919. Serial No. 124,733. PUBLISHED APRIL 6, 1920.

132,495. SELF-LUMINOUS MATERIAL, SUCH AS COMPOUNDS CONTAINING ZINC SULFID AND RADIUM. RADIUM LUMINOUS MATERIAL CORPORATION, New York, N. Y.
Filed November 15, 1919. Serial No. 124,954. PUBLISHED APRIL 13, 1920.

132,496. MALT CEREAL BEVERAGES CONTAINING LESS THAN ONE-HALF PER CENT. ALCOHOL, BY VOLUME. RAINIER PRODUCTS COMPANY, Seattle, Wash.
Filed June 28, 1919. Serial No. 120,067. PUBLISHED DECEMBER 16, 1919.

132,497. MALT CEREAL BEVERAGE CONTAINING LESS THAN ONE-HALF PER CENT. ALCOHOL, BY VOLUME. RAINIER PRODUCTS COMPANY, Seattle, Wash.
Filed June 28, 1919. Serial No. 120,068. PUBLISHED DECEMBER 9, 1919.

132,498. PETTICOATS, DRESS-SKIRTS, AND UNDER-SKIRTS. M. REISS & SON, New York, N. Y.
Filed December 16, 1919. Serial No. 126,140. PUBLISHED MARCH 30, 1920.

132,499. RECONSTRUCTIVE MEDICINAL TONIC. RELIABLE CHEMICAL CO., New York, N. Y.
Filed September 25, 1919. Serial No. 123,142. PUBLISHED MARCH 30, 1920.

132,500. MEDICINE COMBINING THE PHOSPHATES OF CALCIUM, SODIUM, AND IRON WITH PHOSPHATES OF POTASSIUM AND MAGNESIUM. ANDREW L. REUSING, Akron, Ohio.
Filed October 17, 1919. Serial No. 123,905. PUBLISHED MARCH 30, 1920.

132,501. AUTOMOBILES. REVERE MOTOR CAR CORPORATION, Logansport, Ind.
Filed December 15, 1919. Serial No. 126,060. PUBLISHED MARCH 16, 1920.

132,502. AUTOMOBILES. REVERE MOTOR CAR CORPORATION, Logansport, Ind.
Filed December 15, 1919. Serial No. 126,061. PUBLISHED MARCH 16, 1920.

132,503. ANTISEPTIC ASTRINGENT DEODORANT. THE RHEA CHEMICAL COMPANY, Denver, Colo.
Filed March 4, 1919. Serial No. 116,290. PUBLISHED MARCH 16, 1920.

132,504. POLISH FOR CLEANING GLASS, JEWELRY, AND METALS. ROMON RODRIQUEZ, Tampa, Fla.
Filed December 6, 1919. Serial No. 125,671. PUBLISHED MARCH 23, 1920.

132,505. PREPARATION USED AS A DEODORANT AND A RELIEF FOR EXCESSIVE PERSPIRATION. ROLLA CECIL LAWRY, St. Louis, Mo.
Filed October 20, 1919. Serial No. 123,987. PUBLISHED MARCH 16, 1920.

132,506. LADIES' HATS. CHARLES ROTH, New York, N. Y.
Filed November 17, 1919. Serial No. 125,018. PUBLISHED MARCH 9, 1920.

132,507. ANTISEPTIC AND ANESTHETIC GARGLE. VEAZY P. RUPE, Indianapolis, Ind.
Filed November 17, 1919. Serial No. 125,017. PUBLISHED MARCH 30, 1920.

132,508. TRACTORS DESIGNED FOR USE IN HAULING AGRICULTURAL IMPLEMENTS AND FOR SIMILAR AGRICULTURAL PURPOSES. SAMSON TRACTOR COMPANY, Janesville, Wis.
Filed January 30, 1920. Serial No. 127,776. PUBLISHED MARCH 30, 1920.

132,509. NON-ALCOHOLIC NON-CEREAL MALTLESS FLAVORING EXTRACTS USED IN THE MAKING OF NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS. THE C. F. SAUER COMPANY, Richmond, Va.
Filed June 2, 1919. Serial No. 119,136. PUBLISHED MARCH 9, 1920.

132,510. PLASTIC SURGICAL DRESSING. SAXO CHEMICAL CO., Houston, Tex.
Filed November 20, 1919. Serial No. 125,132. PUBLISHED APRIL 6, 1920.

132,511. LIQUID ANTISEPTIC USED AS A GARGLE, MOUTH-WASH, AND FOR SIMILAR PURPOSES. SAXO CHEMICAL CO., Houston, Tex.
Filed November 20, 1919. Serial No. 125,133. PUBLISHED APRIL 6, 1920.

132,512. LINIMENT FOR CERTAIN NAMED AILMENTS. ROY C. SCAFE, Brooklyn, N. Y.
Filed November 3, 1919. Serial No. 124,502. PUBLISHED MARCH 16, 1920.

132,513. SOFT DRINK CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME, AND APPROXIMATELY THREE PER CENT. MALT. THE F. & M. SCHAEFER BREWING CO., New York, N. Y.
Filed November 17, 1919. Serial No. 125,027. PUBLISHED JANUARY 27, 1920.

132,514. MEDICINAL COMPOUND FOR EXTERNAL TREATMENT OF HAY-FEVER. SCHIEFFELIN & Co., New York, N. Y.
Filed October 21, 1919. Serial No. 124,059. PUBLISHED MARCH 16, 1920.

132,515. MISSES' COATS AND SUITS. SCHULMAN & HAUPTMAN, New York, N. Y.
Filed February 17, 1919. Serial No. 115,931. PUBLISHED MARCH 9, 1920.

132,516. BATH-ROBES, LOUNGING-ROBES, AND SMOKING-JACKETS. CHAS. M. SCHWARTZ, Philadelphia, Pa.
Filed December 11, 1919. Serial No. 125,861. PUBLISHED MARCH 9, 1920.

132,517. COD-LIVER OIL. SCOTT & BOWNE, Bloomfield, N. J.
Filed October 7, 1919. Serial No. 123,527. PUBLISHED MARCH 16, 1920.

132,518. ELECTRICAL TESTING-SWITCH FOR IGNITION SYSTEMS. THE SCOTT CORPORATION, Chicago, Ill.
Filed December 28, 1918. Serial No. 114,869. PUBLISHED MARCH 16, 1920.

132,519. SHOE-CLOTH. SEAMANS & COBB CO., Boston, Mass.
Filed November 17, 1919. Serial No. 125,030. PUBLISHED MARCH 23, 1920.

132,520. SANITARY MOISTENERS FOR GUMMED SURFACES. SENGBUSCH SELF CLOSING INKSTAND COMPANY, Milwaukee, Wis.
Filed November 20, 1919. Serial No. 125,130. PUBLISHED MARCH 23, 1920.

132,521. MEDICINE FOR CERTAIN NAMED AILMENTS. THE SENTANEL REMEDIES COMPANY, Wilmington, Del., and Cincinnati, Ohio.
Filed November 15, 1919. Serial No. 124,959. PUBLISHED APRIL 6, 1920.

132,522. URINARY ANTISEPTIC CAPSULES. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,541. PUBLISHED MARCH 16, 1920.

132,523. ANTISEPTIC TABLETS. SHARP & DOHME, Baltimore, Md.
Filed December 3, 1919. Serial No. 125,545. PUBLISHED MARCH 30, 1920.

132,524. INSECTICIDES. SHOEMAKER & BUSCH, Philadelphia, Pa.
Filed November 13, 1919. Serial No. 124,869. PUBLISHED APRIL 13, 1920.

132,525. MEN'S AND BOYS' SUITS, OVERCOATS, COATS, VESTS, AND TROUSERS. SIFF BROS. CO., New York, N. Y.
Filed August 9, 1919. Serial No. 121,488. PUBLISHED MARCH 30, 1920.

132,526. BLOOD-PURIFIER. HERMAN SILVERMAN, Los Angeles, Calif.
Filed November 3, 1919. Serial No. 124,501. PUBLISHED MARCH 16, 1920.

132,527. WASH-BLUE. SIEMON & ELTING, New York, N. Y.
Filed November 13, 1919. Serial No. 124,870. PUBLISHED APRIL 13, 1920.

132,528. SAWS. SIMONDS MANUFACTURING COMPANY, Fitchburg, Mass.
Filed August 16, 1919. Serial No. 121,729. PUBLISHED MARCH 23, 1920.

132,529. MEDICINE FOR THE UPBUILDING OF THE BONE, BLOOD, AND TISSUES OF LIVE STOCK. SIPE CONDITIONER MFG. CO., Kansas City, Mo.
Filed November 3, 1919. Serial No. 124,498. PUBLISHED MARCH 23, 1920.

132,530. STEEL FORGINGS. SIZER FORGE COMPANY, Buffalo, N. Y.
Filed July 1, 1919. Serial No. 120,194. PUBLISHED MARCH 2, 1920.

132,531. SHOES MADE OF LEATHER ALONE, LEATHER LINED WITH FABRIC, LEATHER WITH EITHER LEATHER OR RUBBER HEELS. E. C. SKUFFER SHOE CO., St. Joseph, Mo.
Filed October 3, 1919. Serial No. 123,406. PUBLISHED MARCH 16, 1920.

132,532. HAIR-TONIC, DANDRUFF-ERADICATOR, AND COMPLEXION-CREAM. ARCHIE R. SMITH, St. Louis, Mo.
Filed August 22, 1919. Serial No. 121,910. PUBLISHED APRIL 6, 1920.

132,533. FORCE-FEED LUBRICATORS. SMITH & EGGE MANUFACTURING CO., Bridgeport, Conn.
Filed December 19, 1919. Serial No. 126,262. PUBLISHED MARCH 30, 1920.

132,534. COMPOUND FOR USE IN TREATING DISORDERS OF THE STOMACH, LIVER, AND BOWELS. J. H. SNYDER MED. CO., Jonesboro, Ark.
Filed October 3, 1919. Serial No. 123,407. PUBLISHED MARCH 30, 1920.

132,535. MEDICATED CAPSULES FOR THE TREATMENT OF HEADACHE. CHARLES P. SOHN, Towson, Md.
Filed November 18, 1919. Serial No. 125,066. PUBLISHED APRIL 13, 1920.

132,536. LUBRICATING-OIL. SONARD GREEN LUBRICANT COMPANY, Washington, D. C.
Filed November 3, 1919. Serial No. 124,500. PUBLISHED MARCH 16, 1920.

132,537. ORANGE TABLE-SYRUP. SOUTHERN CALIFORNIA PRODUCTS COMPANY, Orange, Calif.
Filed January 6, 1920. Serial No. 126,878. PUBLISHED MARCH 30, 1920.

132,538. GERMICIDE DEODORIZING AND DISINFECTANT DENTIFRICE PREPARATION. SOUTHERN CHEMICAL PRODUCTS CO., Baltimore, Md.
Filed November 22, 1919. Serial No. 125,197. PUBLISHED APRIL 6, 1920.

132,539. SAL-AMMONIAC AND SOLDERING FLUID. SPECIAL CHEMICALS COMPANY, Highland Park, Ill.
Filed December 31, 1919. Serial No. 126,703. PUBLISHED APRIL 13, 1920.

132,540. ELECTRIC SHEARS OR SCISSORS. THE SPERRY GYROSCOPE COMPANY, Brooklyn, N. Y.
Filed September 4, 1919. Serial No. 122,316. PUBLISHED MARCH 16, 1920.

132,541. LIQUID TONIC AND AN ANTISEPTIC POWDER. CHARLES RALPH SPICER, Memphis, Tenn.
Filed December 29, 1919. Serial No. 126,596. PUBLISHED APRIL 13, 1920.

132,542. TROUSERS. STANDARD MANUFACTURING COMPANY, Erie, Pa.
Filed January 6, 1920. Serial No. 126,880. PUBLISHED MARCH 23, 1920.

132,543. MEN'S NEGLIGÉE SHIRTS AND MEN'S PAJAMAS. STAR SHIRT MANUFACTURING COMPANY, New York, N. Y.
Filed December 4, 1919. Serial No. 125,584. PUBLISHED MARCH 16, 1920.

132,544. ANTISEPTIC GERMICIDE AND DEODORANT. CLARENCE L. STOCKS, Blue Ridge, Ga.
Filed December 1, 1919. Serial No. 125,477. PUBLISHED APRIL 13, 1920.

132,545. COCOA AND CHOCOLATE. THE STOLLWERCK CHOCOLATE COMPANY, Stamford, Conn., and New York, N. Y.
Filed August 4, 1919. Serial No. 121,264. PUBLISHED APRIL 6, 1920.

132,546. COCOA AND CHOCOLATE. THE STOLLWERCK CHOCOLATE COMPANY, Stamford, Conn., and New York, N. Y.
Filed August 4, 1919. Serial No. 121,265. PUBLISHED APRIL 6, 1920.

132,547. HERBACEOUS MIXTURES FOR TREATING ASTHMA AND OTHER HUMAN DISEASES. F. T. STONE, Mildura, Victoria, Australia.
Filed November 13, 1919. Serial No. 124,872. PUBLISHED APRIL 13, 1920.

132,548. MEDICINE TO BE USED IN THE TREATMENT OF THE LIVER AND KIDNEYS. CHARLES D. STOWE, Asheville, N. C.
Filed December 30, 1919. Serial No. 126,656. PUBLISHED APRIL 13, 1920.

132,549. HAT-BLEACHING COMPOUND. E. STRATIGOS, Cleveland, Ohio.
Filed October 1, 1919. Serial No. 123,320. PUBLISHED MARCH 16, 1920.

132,550. POLISH FOR CLEANING AND POLISHING PIANOS, FURNITURE, TALKING-MACHINES, AUTOMOBILE-BODIES, AND ALL VARNISHED OR ENAMELED SURFACES. JESSE STRAUSS, Chicago, Ill.
Filed November 5, 1919. Serial No. 124,581. PUBLISHED FEBRUARY 3, 1920.

132,551. BOYS' SUITS. LOUIS STRAUS, INC., San Francisco, Calif.
Filed September 27, 1919. Serial No. 123,223. PUBLISHED MARCH 16, 1920.

132,552. CLOTHING—VIZ., LEATHER COATS. LEO F. STURM, New York, N. Y.
Filed November 4, 1919. Serial No. 124,539. PUBLISHED MARCH 16, 1920.

132,553. DYES COMBINED WITH SOAP. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed July 19, 1919. Serial No. 120,721. PUBLISHED APRIL 13, 1920.

132,554. DYES COMBINED WITH SOAP IN THE FORM OF FLAKES. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed October 18, 1919. Serial No. 123,943. PUBLISHED MARCH 16, 1920.

132,555. DYES COMBINED WITH SOAP. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed January 2, 1919. Serial No. 114,959. PUBLISHED MARCH 16, 1920.

132,556. DYES COMBINED WITH SOAP. SUNBEAM CHEMICAL COMPANY, Chicago, Ill.
Filed January 2, 1919. Serial No. 114,960. PUBLISHED MARCH 16, 1920.

132,557. CLEANING COMPOUNDS FOR FABRICS, UPHOLSTERED FURNITURE, TILE FLOORS, LINOLEUM, WOODWORK, PAINTED WALLS, AND BATHTUBS. SUNBEAM PRODUCTS COMPANY, Pittsburgh, Pa.
Filed September 27, 1919. Serial No. 123,222. PUBLISHED MARCH 23, 1920.

132,558. MEDICINE USED IN THE TREATMENT OF ECZEMA. CHARLES E. SWAISLAND, Kitchener, Ontario, Canada.
Filed November 15, 1919. Serial No. 124,956. PUBLISHED MARCH 23, 1920.

132,559. TOILET PREPARATIONS — VIZ., TALCUM POWDER. TALCUM PUFF COMPANY, Brooklyn, N. Y.
Filed December 29, 1919. Serial No. 126,599. PUBLISHED APRIL 13, 1920.

132,560. LIFTING-JACKS. TEMPLETON, KENLY & CO., LTD., Chicago, Ill.
Filed November 13, 1919. Serial No. 124,874. PUBLISHED MARCH 23, 1920.

132,561. SALVE USED IN THE TREATMENT OF BURNS, BOILS, BRUISES, OLD SORES, FRESH CUTS. JULES F. TETE, New Orleans, La.
Filed November 14, 1919. Serial No. 124,919. PUBLISHED MARCH 16, 1920.

132,562. TOOTH-POWDERS, TOOTH-PASTES, AND MOUTH-WASHES. JOSEPH N. THIBODEAUX, Houston, Tex.
Filed November 20, 1919. Serial No. 125,135. PUBLISHED APRIL 6, 1920.

132,563. HAIR-TONIC. MARY THOMPSON, Washington, D. C.
Filed November 14, 1919. Serial No. 124,920. PUBLISHED MARCH 16, 1920.

132,564. OIL HATS AND CAPS FOR MEN, WOMEN, AND CHILDREN. A. J. TOWER COMPANY, Boston, Mass.
Filed September 13, 1919. Serial No. 122,667. PUBLISHED MARCH 9, 1920.

132,565. TEAS AND COFFEES. F. C. TRIPI & CO. INC., Buffalo, N. Y
Filed October 31, 1919. Serial No. 124,424. PUBLISHED MARCH 30, 1920.

132,566. WATERPROOF GOODS — NAMELY, COATS, HATS, SUITS, AND LEGGINGS. UNION CITY MANUFACTURING CO., Union City, Tenn.
Filed April 4, 1918. Serial No. 109,995. PUBLISHED MARCH 16, 1920.

132,567. OVERALLS. UNION JOE OVERALL CO., INC., New Orleans, La.
Filed June 17, 1919. Serial No. 119,723. PUBLISHED MARCH 9, 1920.

132,568. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. UNITED DRUG COMPANY, Boston, Mass.
Filed October 23, 1919. Serial No. 124,128. PUBLISHED MARCH 16, 1920.

132,569. NUTS, BOLTS, SCREWS, AND RIVETS. THE UPSON NUT COMPANY, Cleveland, Ohio.
Filed August 30, 1919. Serial No. 122,196. PUBLISHED MARCH 2, 1920.

132,570. PREPARATION FOR THE RELIEF OF LA GRIPPE. VANCOUVER DRUG COMPANY, LIMITED, Vancouver, British Columbia, Canada.
Filed November 1, 1919. Serial No. 124,458. PUBLISHED MARCH 30, 1920.

132,571. DEODORANTS. V. VIVAUDOU, INC., New York, N. Y.
Filed November 20, 1919. Serial No. 125,137. PUBLISHED APRIL 6, 1920.

132,572. MEDICINE AGAINST LUMBAGO, KIDNEY TROUBLE, AND RHEUMATISM. JOSEPH M. WACKROW, Portland, Oreg.
Filed October 20, 1919. Serial No. 124,026. PUBLISHED MARCH 23, 1920.

132,573. PURE CULTURE OR FERMENT EMPLOYED IN THE PRODUCTION OF CEREAL BEVERAGES WHICH ARE EITHER NON-ALCOHOLIC OR CONTAIN LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. MANFRED WAHL, Philadelphia, Pa.
Filed May 9, 1918. Serial No. 110,794. PUBLISHED JANUARY 20, 1920.

132,574. WRENCHES. CLARENCE E. WAKEFIELD, Worcester, Mass.
Filed December 3, 1919. Serial No. 125,553. PUBLISHED MARCH 30, 1920.

132,575. PREPARATIONS FOR THE TREATMENT OF ECZEMA, ACNE, PIMPLES, BLACKHEADS, BARBERS' ITCH, RINGWORM, SORES, ITCHING, &c. ULYSSES G. MCCLURE, Chicago, Ill.
Filed May 11, 1918. Serial No. 110,845. PUBLISHED SEPTEMBER 30, 1919.

132,576. CERTAIN NAMED NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,076. PUBLISHED MARCH 16, 1920.

132,577. ANTISEPTICS. SPIROCIDE CORPORATION, New York, N. Y.
Filed December 20, 1919. Serial No. 126,291. PUBLISHED APRIL 13, 1920.

132,578. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,601. PUBLISHED MARCH 30, 1920.

132,579. BACTERIOLOGICAL CULTURE OF BACILLUS BULGARICUS FOR INTESTINAL PUTREFACTION. THOMAS A. WALSH, Yonkers, N. Y.
Filed April 5, 1919. Serial No. 117,209. PUBLISHED AUGUST 19, 1919.

132,580. DRESS, NEGLIGÉE, AND WORK SHIRTS. WALTHAM SHIRT CO., New York, N. Y.
Filed August 6, 1919. Serial No. 121,324. PUBLISHED MARCH 30, 1920.

132,581. CORSETS, CORSETTES, CORSETETTES, AND BRASSIÈRES. JOHN WANAMAKER, NEW YORK, New York, N. Y.
Filed December 9, 1919. Serial No. 125,764. PUBLISHED MARCH 9, 1920.

132,582. AUTO-TOP DYE AND DRESSING IN THE NATURE OF A PRESERVATIVE. THE WATERPROOFINGS MANUFACTURING CO., Scranton, Pa.
Filed December 13, 1919. Serial No. 125,989. PUBLISHED MARCH 23, 1920.

132,583. WAX AND STAIN FLOOR-FINISH. B. LUCAS WEBB, Columbia, S. C.
Filed August 26, 1919. Serial No. 122,030. PUBLISHED JANUARY 6, 1920.

132,584. NERVE AND BONE LINIMENT FOR CERTAIN NAMED AILMENTS. CHARLES E. WEBER, Roaring Spring, Pa.
Filed December 1, 1919. Serial No. 125,480. PUBLISHED APRIL 13, 1920.

132,585. PRACTICE TELEGRAPH-KEYS. DAVID G. WHITE, Boston, Mass.
Filed November 12, 1919. Serial No. 124,824. PUBLISHED MARCH 23, 1920.

132,586. FINE WRITING-PAPER. WHITING PAPER COMPANY, Holyoke, Mass.
Filed March 26, 1919. Serial No. 116,938. PUBLISHED JANUARY 6, 1920.

132,587. LEATHER AND FABRIC SHOES. LOUIS WIESNER, New York, N. Y.
Filed November 13, 1919. Serial No. 124,875. PUBLISHED MARCH 9, 1920.

132,588. LOTIONS AND OINTMENTS FOR CERTAIN-NAMED AILMENTS, COLD-CREAMS, AND DENTIFRICES. JOHN WATSON WILDER, Chicago, Ill., assignor to Delicine Products Company, Chicago, Ill., a Corporation of Illinois.
Filed November 15, 1919. Serial No. 124,965. PUBLISHED APRIL 13, 1920.

132,589. MISSES' AND CHILDREN'S CLOAKS AND SUITS. E. J. WILE & CO., New York, N. Y.
Filed December 10, 1919. Serial No. 125,814. PUBLISHED MARCH 9, 1920.

132,590. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. JULIUS WILE SONS & CO., New York, N. Y.
Filed December 13, 1919. Serial No. 125,985. PUBLISHED MARCH 30, 1920.

132,591. METHYL ALCOHOL. THE WILL CORPORATION, Rochester, N. Y.
Filed October 24, 1919. Serial No. 124,159. PUBLISHED APRIL 13, 1920.

132,592. CELLULOSE COMPOUND USED IN PREPARING COLLODION EMBEDDING-TISSUES FOR MICROSCOPIC AND BIOLOGICAL SPECIMENS. THE WILL CORPORATION, Rochester, N. Y.
Filed October 24, 1919. Serial No. 124,160. PUBLISHED MARCH 16, 1920.

132,593. LACQUER FOR FURNITURE AND HOUSEHOLD GOODS. C. A. WILLEY COMPANY, Long Island City, N. Y.
Filed August 5, 1919. Serial No. 121,287. PUBLISHED DECEMBER 2, 1919.

132,594. SHEET-MUSIC AND MUSIC PUBLICATIONS ISSUED FROM TIME TO TIME. DAVID EVAN WILLIAMS, Charleston, S. C.
Filed September 8, 1919. Serial No. 122,454. PUBLISHED FEBRUARY 24, 1920.

132,595. PACKAGE-CANDIES. WILLIAM WILLIAMS, Saginaw, Mich.
Filed November 29, 1919. Serial No. 125,444. PUBLISHED FEBRUARY 10, 1920.

132,596. HAIR-TONIC. S. S. WINFIELD, New York, N. Y., and New Orleans, La.
Filed October 18, 1919. Serial No. 123,946. PUBLISHED MARCH 16, 1920.

132,597. PILE REMEDY. OLLIE WINGATE, Atlanta, Ga.
Filed November 10, 1919. Serial No. 124,743. PUBLISHED APRIL 6, 1920.

132,598. MEDICINAL OIL-LINIMENT USEFUL IN ALLAYING PAIN. MORITZ M. WOLFF, Boston, Mass.
Filed November 12, 1919. Serial No. 124,826. PUBLISHED APRIL 13, 1920.

132,599. PREPARATION FOR THE TREATMENT OF LA GRIPPE, COLDS, AND MUSCULAR PAINS. HERMANN C. WURM, New York, N. Y.
Filed November 24, 1919. Serial No. 125,267. PUBLISHED MARCH 30, 1920.

132,600. OINTMENT, PREPARATION, AND TABLETS FOR TREATMENT OF RHEUMATISM, COLDS, AND PAINS, AND A STEAM-BATH POWDER. ZARHEUM CHEMICAL CO., New York, N. Y.
Filed November 3, 1919. Serial No. 124,507. PUBLISHED MARCH 16, 1920.

132,601. MALT-SYRUP CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. CHARLES T. ZIRKLE, Portland, Oreg.
Filed September 15, 1919. Serial No. 122,746. PUBLISHED DECEMBER 9, 1919.

LABELS

REGISTERED JUNE 22, 1920.

21,874.—*Title:* "THE FAMOUS SHENANDOAH VALLEY BRAND." (For Pork Sausage.) H. L. BUSHONG, Washington, D. C. Filed May 11, 1920.

21,875.—*Title:* "GENCO COLA." (For a Non-Alcoholic Beverage.) GENERAL FRUIT & SYRUP CO., Baltimore, Md. Filed May 19, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

CHRISTO MANUFACTURING COMPANY *v.* THE CHRISTIAN MOERLEIN BREWING COMPANY.

Decided May 3, 1920.

TRADE-MARK—GOODS OF THE SAME DESCRIPTIVE PROPERTIES—NON-ALCOHOLIC CEREAL BEVERAGE AND NEAR-BEER BEVERAGE.

A non-intoxicating cereal beverage containing no malt or alcohol *Held* to constitute goods of the same descriptive properties as a "near beer" beverage.

Mr. Melville Church and *Mr. A. S. Stuart* for the appellant.

Mr. Titian W. Johnson for the appellee.

SMYTH, *C. J.:*

The Christian Moerlein Brewing Company made application for registration of the word "Chrismo," alleging that it had been adopted by it and used continuously in its business since September 25, 1916. The application is opposed by the Christo Manufacturing Company, who is the owner of the trade-mark "Christo," registered April 29, 1913. The Examiner of Interferences sustained the opposition. On motion he granted a rehearing, reexamined the question, and decided to adhere to his first view. He was reversed on appeal, and the opposition was overruled.

The resemblance of the two marks is conceded, but it is urged by the applicant that they are not applied to goods of the same descriptive qualities. The applicant's product is, according to its application, "a non-alcoholic beverage sold as a soft drink." By agreement a circular issued by the applicant was made part of the record. It says—

that the goods of the applicant is a non-intoxicating cereal beverage containing no malt or alcohol.

No testimony was offered by the applicant. On cross-examination of one of the opposer's witnesses it was developed that the opposer manufactured "a near beer beverage" called "Christo Lager Ale," and that it had been doing so for over a year prior to the taking of the testimony. If this was not true it could easily have been contradicted, but no effort was made by the applicant to do so. Hence we must assume that it is true. In view of this there is no escape from the conclusion that the goods of the applicant possess the same descriptive qualities as those of the opposer. And this being so, the opposition must be sustained and the decision of the Patent Office reversed. (*Thomas Mfg. Co.* v. *Acolian Co.*, 47 App. D. C., 376; *Getz Bros. & Co.* v. *Alaska Packers Assn.*, 258 Fed., 526.)

Reversed.

U. S. Circuit Court of Appeals—Second Circuit.

BELLOWS AND SLACK *v.* THE NEW YORK CENTRAL RAILROAD COMPANY.

Decided May 13, 1920.

1. PATENTS — PATENTABILITY — SUBSTITUTION OF STEEL FOR WOODEN CAR-SILL NOT INVENTION.

"The idea of making a car sill of rolled steel straight channel bars which could be purchased in the open market was not the subject of patentable invention."

2. SAME — SAME — REINFORCING METAL CAR-SILLS — WOODEN SILLS.

Where it was old to reinforce wooden car-sills by the employment of a reinforcing member extending along the sill between bolsters and to reinforce metal car-sills of the fish-belly type and also to reinforce straight metal channel-bars in other arts, it involved no invention to substitute a straight rolled-steel channel-bar for the wooden sill and reinforce it in an analogous way.

3. SAME—SAME—PATENTS INVALID FOR LACK OF INVENTION.

The Bellows Patent No. 762,796, claims 1, 7, and 10 to 17, and the Bellows Patent No. 762,858, claims 1 to 9, for metal car-sills, *Held* invalid, being devoid of invention in view of the prior art.

APPEAL from the District Court for the Southern District of New York. Actions by Arthur B. Bellows and Louis M. Slack and the Cambria Steel Company, plaintiffs, against The New York Central Railroad Company, defendant, for infringement of Letters Patent Nos. 762,858 and 762,796. Decrees for defendant. Plaintiffs, Arthur B. Bellows and Louis M. Slack, appeal.

Mr. George H. Parmelee and *Mr. Clarence P. Byrnes* for the appellants.

Mr. Robert J. Fisher for the appellee.

Before WARD, ROGERS, and MANTON, Circuit Judges.

MANTON, *Cir. J.:*

The patents were issued on June 14, 1904, to the appellant Bellows, for car-sills. Thereafter, the Cambria Steel Company became the exclusive licensee under this patent. A provision of this license agreement provided that it was the understanding of the parties that if the patents were declared invalid or found to infringe patents to others, the Cambria Steel Company would have the right to surrender the agreement and would not thereafter be obligated to pay royalties under it. After the decision of the district court, the Cambria Steel Company refused to further be bound and discontinued payment of royalties pursuant to the terms of this agreement. There has been a severance of parties granted and this appeal is prosecuted without the Cambria Steel Company or its aid. The patents

relate to railroad freight-cars and particularly freight-cars having flat bottoms, such as flat-cars and gondola cars as distinguished from hopper-cars, where there is no flat floor. The patent relates to the sills supporting underframes of the cars on which the body is mounted. They are the supporting longitudinal sills, and especially the center sill which forms the backbone of the car running lengthwise of the car-frame from end to end. These are connected with the center and side sills by body-bolsters. The claims involved in Patent No. 762,796 are 1, 7, 10, 11, 12, 13, 14, 15, 16 and 17; and claims 1 to 9 inclusive of Patent No. 762,858. The suggestion of counsel is that the following language covers each:

> A car sill consisting of a channel reinforced by an angle bar or other flanged shape secured to it at any point below its top and between the body bolsters, and in some instances extending below the bottom of the channel.
>
> A car sill composed of one or more channel girders each of which has a reinforcing angle bar secured to it at a point between the bolsters and not projecting either above or below the flanges of the channels making up the sills.

The need for steel sills came at a period of the transition from wood to steel cars. The problem, if there was one involved, was to avoid the fish-belly-shaped sills and arrange for a proper distribution of the strains and stresses. It involved having due regard for the buffing-strains and the economical manufacture of the sills. The inventor in his specifications states that—

> heretofore in order to obtain the necessary strength at the central portion of car-sills the webs of these sills have been commonly formed of gradually-increasing depth from the ends toward the center. The making of these sills, whether formed of pressed steel shapes or of a sheet with angles riveted along its edges, has been an expensive operation and necessitated the use of special and expensive machinery. My invention obviates this difficulty; and it consists in securing along the central part of the sill a separate longitudinal strengthening member, this member adding the necessary strength at the desired points.

The transition period between the wooden and steel cars and the making of necessary repairs in used cars brought out many types of sills and reinforced channels used as sills. This record is top-heavy with instances of the inventor's idea of reinforcing structural steel beams used as supporting-sills for freight-cars and other load-carrying appliances. Indeed, it has been the subject of grant of several patents which have been offered as part of the prior art. The reinforcing angle and other bars have long been secured along the lower edge of roll channel-beams in various structures, including cars and their parts as well as the framework of buildings and bridges. Straight channel-sills of pressed steel were rolled, as were straight sills of channel form built up from plates and angle-bars. Steel fish-belly sills of channel form, each of which was provided with a reinforcing-angle secured along its lower edge, were used in 1900 and 1901 on railroads and manufactured by the Pressed Steel Car Company. In some instances, this angle was flush with the bottom of the sill and in others extended beyond the bottom of the sill. This prior use illustrates the reinforcing of sills. To be sure, they were of the fish-belly shape as distinguished from the Bellows straight sill or roll shape reinforced, but drop-bottom gondola cars were built for the Louisville & Nashville Railroad and used by it as early as 1895. In its cars, there was bolted to the sills of the cars, which were of wooden timbers along its lower inner edge, a smaller reinforcing-timber which was flush with the bottom of the sill and extended from bolster to bolster, the ends of the reinforce-beams being notched or gained so as to rest upon the upper surface of the bolster. But straight steel beams used for carrying loads and for meeting stresses and strains of heavy loads were old in the arts. In the ship-building art, as appears in the British patent to Withy and Siveright, No. 14,885, granted in 1886, and to Stuart, granted June 3, 1890, girders in the form of channels were both built up and integral, which were provided with angle reinforcements at the point of stress.

In the building art, straight channels were reinforced at the point of stress by reinforcing-plates.

We think that it did not constitute invention to make and reinforce straight channels and use them as sills. It was an obvious expedient to take care of stresses and strains. The idea of making a car-sill from rolled material which was for years made and could be purchased in the open market, was not the subject of patentable invention. The reinforcing of the car-sill was long before anticipated. The publication which was offered in evidence, of the Master Car-Builders' Association, antedated the time of conception of this invention. What the inventor did was to apply to the steel sill a reinforcement analogous to that which had been applied to wooden cars. We think that the claim of advantages of greater strength in appellants' construction over that of the fish-belly-shaped sills, was fully met by the proof that fish-belly sills have not been supplanted by straight sills and are in very extensive use and, even in this day, may be found as a prevailing type. What advance was made by the appellant Bellows was simply an outgrowth of mechanical construction required for the transition period from wooden to pressed-steel cars in the matter of rearrangement and readjustment of the many parts necessary for the building of the car. We find nothing of an inventive character in what he accomplished. It was never the object of the patent laws to grant a monopoly upon an idea which would naturally occur to a mechanic in the ordinary progress of manufacture. (*Atlantic Works* v. *Brady*, 107 U. S., 192.) It was held not patentable to place a strip of steel upon a horizontal leather part of a shank-strip for the purpose of stiffening it. (*Crouch* v. *Roemer*, 103 U. S., 797.) And it was no invention to place a stiffening-rib upon the under surface of a grate-bar. (*Parsons Mfg. Co.* v. *Coe*, 185 Fed. Rep., 522.) Nor was it patentable to reinforce a plowshare by a patch of soft metal welded into the inner face. (*Moline Plow Co.* v. *Omaha Co.*, 235 Fed. Rep., 519.)

> Invention in reinforcement is to be found only in discovering a new principle or employing new means for embodying the old principle. (*Turner* v. *Lauter Piano Co.*, 248 Fed. Rep., 930.)

We agree with the district judge that any reinforcing of the steel sills would occur to the lay mind, not to speak of the skilled mechanic. In view of the prior art and publications as disclosed by this record, we are satisfied that no invention is disclosed in appellants' idea of metal sills.

The decrees are affirmed.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 29, 1920.

Consolidated Rubber Works, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Quick Tire Service, Inc., of 1790 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered December 28, 1897, No. 31,065, to Consolidated Rubber Works, of 116 Bedford street, Boston, Mass., and a notice of such declaration sent by registered mail to said Consolidated Rubber Works at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Consolidated Rubber Works, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., May 29, 1920.

George Bedford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Louis A. Freedman, of 340 West Eighty-sixth street, New York, N. Y., for patent and patent granted December 12, 1916, No. 1,208,455, to George Bedford, of 2723 Church avenue, Brooklyn, N. Y., and a notice of such declaration sent by registered mail to said George Bedford at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said George Bedford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., June 1, 1920.

Miller & Miller, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Indianapolis Abattoir Company, Morris and Drover streets, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered February 23, 1892, No. 20,763, to Miller & Miller, Nos. 12 and 14 North Paca street, Baltimore, Md., and a notice of such declaration sent by registered mail to said Miller & Miller at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Miller & Miller, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., June 7, 1920.

Leo Goldberger, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the International Battery Co., Inc., of 453 Broome street, New York, N. Y., for registration of a trade-mark and trade-mark registered April 25, 1916, No. 109,896, to Leo Goldberger, of 88 Vernon avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Leo Goldberger at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Leo Goldberger, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 9, 1920.

The Phelps Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Maans N. Nelin, of 1019 Third avenue, Rockford, Ill., for registration of a trade-mark and trade-mark registered March 12, 1907, No. 61,226, to The Phelps Co., of Meadville, Pa., and a notice of such declaration sent by registered mail to said The Phelps Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Phelps Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

The Carbon Black Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered June 14, 1881, No. 8,344, to The Carbon Black Company, of New York, N. Y., and a notice of such declaration sent by registered mail to The Carbon Black Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Carbon Black Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

The Charles H. Brown Paint Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 11, 1916, No. 108,008, to The Charles H. Brown Paint Co., of 188 Montague street, New York, N. Y., and the Office having failed to secure service upon The Charles H. Brown Paint Co. at its said address notice is hereby given that unless The Charles H. Brown Paint Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

American Standard Composition Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-marks registered September 26, 1905, No. 46,584, and September 2, 1902, No. 38,867, to American Standard Composition Co., of Colorado Building, Fourteenth and G streets, Washington, D. C., and a notice of such declaration sent by registered mail to said American Standard Composition Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said American Standard Composition Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

CHANGES IN CLASSIFICATION.

(ORDER No. 2,576.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 27, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 84, Music, (Division V,) abolish the existing subclasses and establish in lieu thereof the following subclasses and definitions:

84.—MUSIC.

1. **Instruments**—
Automatic—
2. Combined—
3. Electric,
4. With phonograph—
5. Electrical connections,
6. Pneumatic,
7. Stringed—
8. With picking devices—
9. Electric,
10. With bowing devices—
11. Electric,
12. With striking devices,
13. Pianos—
14. Without keys—
15. Half-width,
16. Constant power—
17. Electric control—
18. Key-actuators,
19. Electric power—
20. Key-actuators—
21. With expression—
22. By voltage change,
23. With expression,
24. Pneumatic type—
25. Key-actuators,
26. Grands—
27. Connections to piano-action,
28. Action above keyboard,
29. Action below keyboard,
30. Location of parts,
31. With double tracker—
32. Double length,
33. Expression mechanism—
34. Parts of piano moved—
35. Rest-rail shifted—
36. Normally in short-stroke position,
37. Position controlled from reservoir,
38. Graduated shift,
39. Wind-pressure varied—
40. By pumping,
41. By throttling,
42. By regulating-chamber,
43. By use of two pressures,
44. Two coöperating pneumatics to each note,
45. Two opposing pneumatics to each note,
46. Transmission varied,
47. Systematic variations,
48. Pneumatic details,
49. Hand-controllers,
50. Pneumatic construction—
51. Both primaries and secondaries—
52. Lower leaf moved,
53. Lower leaf moved,
54. Striker-pneumatics in wind-chest,
55. Units—
56. Metal,
57. Tubes and junctions,
58. Bleeds—
59. With valve,
60. Valves and seats—
61. Inside,
62. Outside—
63. Adjustable,
64. Screening and cleaning,
65. Power-pneumatics—
66. Connections to hammers—
67. To key,
68. To abstract,
69. To wippen,
70. Wind-supply devices—
71. In grands—
72. Pedals—
73. Folding—
74. With key-lock,
75. With doors—
76. Operating together—
77. Door-carried pedal,
78. Upper panel moved,
79. Distribution,
Cases—
80. Key-slips,
81. Upper panel,
82. Lower panel,
83. Wind—
84. Organs—
85. Stop-actions,
86. Cylinder,
87. Disk,
88. Electropneumatic action,
89. Pneumatic action—
90. With keys,
91. Pipe-organ,
92. Organettes,
93. Mouth-blown,
94. Combs—
95. Cylinder type—
96. Cylinder construction,
97. Disk type—
98. With star-wheels,
99. Multiple disks,
100. With phonograph-spindle,
101. Note-sheet type,
102. Bars,
103. Bells,
104. Drums,
105. Outside players—
106. Cylinder or disk,
107. Electric or electropneumatic,
108. Cabinet type—
109. Case-connectors,
110. Pneumatic,
111. Striker details,
112. Constant power—
113. Electric control,
114. Pneumatic control,
115. Selectors—
116. Tracker-box location,
117. Mechanical fingers,
118. Plurality of sheets—
119. Synchronized,
120. Single tracker,
121. Sheet not rolled,
122. Winding and rewinding—
123. With electric features,
124. For two types of rolls,
125. Shifting-gear and clutch,
126. Two clutches,
127. Gears,
128. Speed control—
129. Roller and disk or cone,
130. By wind-supply,
131. Compensation for diameter,
132. Feeding,
133. Rewinding,
134. Brakes,
135. Sheet-pressers,
136. Registration—
137. Movable detector at edge—
138. Controlling shifter-bellows—
139. Single detector,
140. Extra end holes—
141. Single end hole,
142. Extra center holes,
143. Flange shifted,
144. Hand-operated,
145. Transposition only
146. Trackers and sheets—
147. Electric,
148. For organs,
149. Vertical,
150. Playing on wind and rewind,
151. Trackers—
152. Double scale—
153. Trackers rigidly connected—
154. Pivotally mounted,
155. With slide-valves,
156. Duct-closers,
157. Modified for expression,
158. Metal,
159. Extensible,
160. Pneumato-electric,
161. Note-sheets—
162. Ends and joints,
163. Overlapping holes,
164. With expression and tempo marks,
165. With marks for voice,
166. With projections,
167. Key-locks,
168. Couplers,
169. Indicators,
170. Combined—
171. Electric,
172. Piano and organ,
173. Stringed—
174. Pianos—
175. Duplex,
176. Separable,
177. Cases—
178. Fall-boards and desks,
179. Fall-boards,
180. Music desks or racks,
181. Music-receptacles,
182. Swells,
183. Protectors,
184. Frames, string-plates, and sounding-boards,
185. Frames and string-plates,
186. Frames,
187. String-plates and sounding-boards,
188. String-plates,
189. Resonance devices—
190. Supports or platforms,
191. Insulators,
192. Sounding-boards—
193. Materials,
194. Multiple,
195. Ribbing,
196. Crowning devices,
197. Stringing—
198. Auxiliary strings,
199. Strings,
200. Tuning devices—
201. Simple pin,
202. Locking devices—
203. Involving two pins,
204. Worm-gear,
205. Direct pull—
206. With push-piece,
207. With lever,
208. Transverse pressure,
209. Bridges—
210. Inverted,
211. Agraffes,
212. On sounding-board—
213. With string-holders,
214. String clamps or holders,
215. Depressing-bars,
216. Expression devices—
217. Dampers lifted,
218. Dampers held,
219. Pianissimo devices—
220. Curtain type,
221. Hammer-stroke shortened—
222. Lost-motion preventers—
223. In grand-actions,
224. Auxiliary strikers,
225. Pedal mechanism—
226. Locks,
227. Spring-fulcrum,
228. Bearings,
229. Pedals—
230. Auxiliary—
231. Pedal-carried,
232. With footrest,
233. Mouse-guards,
234. Harmonic dampers,
235. Couplers,
236. Hammer-actions—
237. Horizontal—
238. Downstriking,
239. Grand,
240. Upright—
241. Jack serving as retractor,
242. Standard type,
243. Details—
244. Power-operated hammers—
245. Sostenuto,
246. Electric striker,
247. Jack constantly controlled,
248. Inverted jack,
249. Jointed jack,
250. Action-frames,
251. Flanges and joints—
252. Continuous,
253. Checks,
254. Hammer-heads,
255. Damper heads and stems,
256. Bowed or violin pianos—
257. With belt-bow,
258. Plectrum,
259. Electromagnetic actions—
260. With interrupter,
261. With microphone—
262. Phase control,
263. Combined,
264. Harps—
265. Bodies,
266. Erard action,
267. Guitars,
268. Mandolins,
269. Banjos—
270. Resonance devices—
271. Closed back,
272. Two rings,
273. Mutes,
274. Violins—
275. Bodies—
276. Bass-bars,
277. Sound-posts,
278. Combined chin-rest and support,
279. Chin-rests,
280. Supports,
281. Positioning devices,
282. Bows,
283. Bow-guides,
284. Dulcimers,
285. Zithers—
286. Chord-selectors—
287. Damper-bar type—
288. Dampers independent,
289. Guard-plate type,
290. Details—
291. Bodies—
292. Metal,
293. Necks,
294. Resonance devices—
295. Auxiliary strings,
296. With diaphragm,
297. Strings and fastenings—
298. Guitar-bridges,
299. Guitar-bridges with tailpieces,
300. Banjo-tailpieces,
301. Mandolin-tailpieces,
302. Violin-tailpieces,
303. Spools,
304. Tuning-pegs—
305. Friction-increasers,
306. Worm-gear,
307. Bridges—
308. Banjo,
309. Violin,
310. Violin-mutes—
311. Attached,
312. Tunings,
313. Tremolo devices,
314. Finger-boards and frets,
315. Fingering devices—
316. For semitone,
317. For chords—
318. Capo tastos,
319. Stopping fingers or blocks,
320. Picking devices—
321. Picks on reciprocating carriage,
322. Hand or finger picks,
323. Hammer mechanism—
324. Spring-shank hammer,
325. Bowing mechanism—
326. With keyboard,
327. Instrument-supports,
328. Arm, hand, or finger rests,
329. Article-holders,
330. Wind—
331. Pipe-organs—
332. Actions—
333. Stop-chambers,
334. Single chamber,
335. Pneumatic details—
336. Membrane valve,
337. Electric,
338. Electropneumatic—
339. Details,
340. Couplers—
341. Pneumatic,
342. Electric,
343. Key-valves,
344. Stop-actions—
345. Combination—
346. Adjustable,
347. Swells—
348. Electropneumatic,
349. Valve-tremolos,
350. Pipes—
351. Reed,
352. Reed-organs—
353. Cases—
354. Pedals,
355. Folding,
356. Wind-supply devices—
357. Pressure and exhaust,
358. Pedals—
359. Auxiliary,
360. Distribution,
361. Reed-boards—
362. With qualifying-tubes,
363. With resonance-chamber,
364. Reeds—
365. With tuning means,
366. Key-actions—
367. Pedal,
368. Pneumatic,
369. Pallets,
370. Stop-actions—
371. Combination,
372. Celeste,
373. Swells,
374. Couplers,
375. Fan-tremolos,
376. Minor reed—
377. Accordions,
378. Harmonicas—
379. With resonance-chambers,
380. Supports,
381. Wood winds—
382. Duplex,
383. Clarinets—
384. Mouthpieces,
385. Flutes,
386. Saxophones,
387. Pitch-changing devices,
388. Brasses—
389. Valve type—
390. With four valves,
391. Rotary movement,
392. Helical or sliding movement,
393. Piston details,
394. With substitute tubes,
395. Tuning devices,
396. Trombones—
397. Tuning devices,
398. Drainage,
399. Mouthpieces—
400. Adjustable,
401. Mutes,
402. Tremolos,
403. Rigid vibrators—
404. Bars and supports—
405. With strikers,
406. With electric action,
407. Bells—
408. With electric action,
409. Tongues,
410. Forks,
411. Resonators,
412. Drums—
413. Collapsible,
414. Cord-tighteners,
415. Head material,
416. Snares—
417. Material,
418. Inside,
419. Tambourines,
420. Tympani,
421. Toy,
422. Supports,
423. Drum and cymbal beaters,
424. General features—
425. Keyboards—
426. Plurality of manuals,
427. Auxiliary—
428. Pedal,
429. Plurality of touch-plates—
430. Whole-tone scale,
431. Curved front,
432. Key-bottoms—
433. Folding,
434. Key-frames, adjustable,
435. Keys—
436. Fulcrums and guides,
437. Fulcrums,
438. Guides,
439. Plating,
440. Manufacturing processes,
441. Touch-regulators—
442. Resistance,
443. Key-holders,
444. Key-selectors,
445. Chord-players—
446. Pedal-operated,
447. Transposers—
448. Auxiliary keyboard,
449. Keyboard shifted,
450. Intermediate parts shifted,
451. Sounders shifted,
452. Solo attachments,
453. Special or enharmonic scales,
454. Materials.
455. **Accessories**—
456. Tuning devices—
457. Strings,
458. Pipes and reeds,
459. Forks,
460. Tools and machines—
461. Tuning-hammers,
462. Felt-pickers,
463. Recording devices—
464. Electric,
465. Applying expression-lines,
466. Producing color or light effects,
467. Exercising devices—
468. For singers,
469. For pianists—
470. Attached to performer,
471. Arm-rest rail,
472. Teaching devices—
473. Charts or boards—
474. Easel type,
475. With transposing-slide,
476. With transposing-dial,
477. For transcribing,
478. Blocks,
479. Indicators—
480. For keyboard—
481. Single position—
482. With transposing-slide,
483. Plurality of cards,
484. Shiftable,
485. Tune-sheets,
486. For tempo,

84.—MUSIC—Continued.
- **Accessories**—
  - Teaching devices—
    - Indicators—
      - 485. For fingering,
    - 486. Leaf-turners—
      - 487. Motor-operated,
      - 488. Gravity-operated,
      - 489. Hand and spring operated arms,
    - Spring-operated arms—
      - 490. Plurality of latches—
        - 491. Fixed latches,
        - 492. Plurality of releasers—
          - 493. Latches and releasers pivoted—
            - 494. Integral,
        - 495. Single latch—
          - 496. Fixed latch,
          - 497. Sliding latch,
          - 498. Escapement—
            - 499. Air-operated,
      - 500. Single spring-arm—
        - 501. Latch and releaser integral,
      - 502. Player-operated arms—
        - 503. Plurality of actuators—
          - 504. Plurality of finger-pieces—
            - 505. Actuators pivoted,
            - 506. Actuators and finger-pieces integral,
          - 507. Single finger-piece,
        - Single actuator—
          - 508. Progressive action—
            - 509. Arms and actuator on different axes—
              - 510. With segmental gear,
            - 511. Sliding actuator—
              - 512. With segmental rack,
          - 513. Repeating action—
            - 514. Arms and actuator on different axes,
            - 515. Sliding actuator,
        - 516. Single arm,
        - 517. Single transfer-bar—
          - 518. With buckling devices,
          - 519. With suction devices,
          - 520. Leaves prepared—
            - 521. With magnetic disks.

J. T. NEWTON, *Commissioner.*

(ORDER No. 2,577.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 27, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 44, Fuel, (Division XXXI,) change the title of the class to read class 44, Fuel and Igniting Devices, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

44.—FUEL AND IGNITING DEVICES.
- 1. **Artificial fuel**—
  - 2. Apparatus,
  - 3. Chemical-reaction heat-producers,
  - 4. Combustion aids—
    - 5. Flue-cleaning compounds,
    - 6. Coated or impregnated bodies,
  - 7. Solidified liquid,
  - 8. Fluid—
    - 9. Motor,
  - 10. Briqueting—
    - 11. Apparatus—
      - 12. Plural operations—
        - 13. With molding,
      - 14. Shapes and structures,
    - Binders—
      - 15. Carbon-compound containing—
        - 16. With inorganic material—
          - 17. With oxidizer,
          - 18. With animal derivative,
          - 19. With bituminous material,
          - 20. With petroleum or its derivative,
          - 21. Resin-containing,
          - 22. With animal derivative,
          - 23. With bituminous material,
          - 24. With petroleum or its derivative,
          - 25. Resin-containing,
        - 26. Inorganic material,
  - 27. Peat—
    - 28. Apparatus—
      - 29. Plural operations—
        - 30. With molding,
        - 31. Disintegrating,
      - 32. Briquets,
      - 33. Heat-including processes.
- 34. **Fire-kindling**—
  - 35. Apparatus—
    - 36. Automatic—
      - 37. Fire-engine,
    - 38. Shapes and structures—
      - 39. With igniters,
      - 40. Packages,
      - 41. Coated or impregnated bodies.
- 42. **Matches**—
  - 43. Multiple—
    - 44. Cards,
    - 45. With scratchers,
    - 46. Splints and sticks,
    - 47. Processes,
  - 48. **Match-scratchers.**

J. T. NEWTON, *Commissioner.*

(ORDER No. 2,580.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 8, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 76, METAL TOOLS AND IMPLEMENTS, MAKING, (Division XIII,) abolish the following subclasses, with their definitions:

Machines—
- 4.4. Type or matrix forming—
  - 4.5. Type-bar.

Blanks and processes—
- 107.4. Types or matrices—
  - 107.6. Making ready,
  - 107.5. Type-bars.

The patents formerly contained in these subclasses have been placed in similarly-entitled subclasses hereinafter established in class 101, PRINTING.

In class 101, PRINTING, (Division XVII.) establish the following subclasses and definitions:

Printing members—
- 401.1. Blanks and processes—
  - 401.2. Types or matrices—
    - 401.3. Making ready,
  - 401.4. Type-bars.
  - 401.5. Type or matrix forming machines—
    - 401.6. Type-bar.

401.1. PRINTING MEMBERS, BLANKS AND PROCESSES. Printing or impression blanks, plates, surfaces, etc., and processes of making them.

401.2. PRINTING MEMBERS, BLANKS AND PROCESSES, TYPES OR MATRICES. Processes of forming metal printing-surfaces other than by etching, casting, deposition, or mere embossing unaccompanied by special manipulation; also blanks for the same.
Search this class, subclass 401.5, for related apparatus.

401.3. PRINTING MEMBERS, BLANKS AND PROCESSES, TYPES OR MATRICES, MAKING READY. Processes of manipulating printing-plates so that the desired pressure will be obtained at all portions of the design.
Search Class—
153—METAL-BENDING, for the mere straightening of printing-plates.

401.4. PRINTING MEMBERS, BLANKS AND PROCESSES, TYPES OR MATRICES, TYPE-BARS. Processes of forming type having a plurality of characters arranged in line on a single body member of a standard type-point thickness; also blanks for the same.
Search this class, subclass 401.6, for related apparatus.

401.5. PRINTING MEMBERS, TYPE OR MATRIX FORMING MACHINES. Machines for forming metal printing-surfaces other than by etching, casting, deposition, or straight embossing unaccompanied by special manipulations.
Search this class, subclass 401.2, and the subclasses indented thereunder, for related processes.

401.6. PRINTING MEMBERS, TYPE OR MATRIX FORMING MACHINES, TYPE-BAR. Machines for forming type having a plurality of characters arranged in line on a single body member of a standard type-point thickness.
Search this class, subclass 401.4, for related processes.

The patents contained in these subclasses have been taken from similarly-entitled subclasses hereinbefore abolished in class 76, Metal Tools and Implements, Making, with the exception of those contained in subclass 401.1, which have been taken from class 41, Ornamentation, subclass 25, Surface type, Relief and intaglio, Reproducing, and class 101, Printing, subclass 426, Processes.

J. T. NEWTON,
Commissioner.

Patents Nos. 1,344,608 to 1,345,336.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 275—No. 5. TUESDAY, JUNE 29, 1920. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JUNE 29, 1920	833
CHANGES IN CLASSIFICATION	833
ADJUDICATED PATENTS	833
APPLICATIONS UNDER EXAMINATION	834
PATENTS GRANTED	835
REISSUES	975
DESIGNS	976
TRADE-MARKS—REGISTRATION APPLIED FOR	983
TRADE-MARK REGISTRATIONS GRANTED	1013
TRADE-MARK REGISTRATIONS RENEWED	1021
LABELS AND PRINTS	1022
COMMISSIONER'S DECISIONS—	
Ex parte Stadeker	1023
DECISIONS OF THE U. S. COURTS—	
In re Stadeker	1023
Reid, Reid, and Kelley v. Kitselman. Kitselman v. Reid, Reid, and Kelley	1024
Kitselman v. Reid, Reid, and Kelley	1024
In re Sorum	1024
Beidler v. The United States	1026
INTERFERENCE NOTICES	1028

Issue of June 29, 1920.

Patents	729—No.	1,344,608 to No.	1,345,336, inclusive.
Designs	38—No.	55,544 to No	55,581, inclusive.
Trade-Marks	270—No.	132,602 to No.	132,871, inclusive.
Labels	27—No.	21,876 to No.	21,902, inclusive.
Prints	7—No.	5,259 to No.	5,265, inclusive.
Reissues	5—No.	14,900 to No.	14,904, inclusive.
Total	1076		

Changes in Classification.

(ORDER No. 2,584.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 15, 1920.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 29, Metal-Working, (Division XIII,) establish the following subclasses and definitions:

Assembling—
- 86.3. Valve appliers and removers.
- 86.4. Piston-ring inserters and removers.

86.3. ASSEMBLING, VALVE APPLIERS AND REMOVERS. Means for applying and removing valves, usually for internal-combustion engines.

86.4. ASSEMBLING, PISTON-RING INSERTERS AND REMOVERS. Means for inserting and removing piston-rings, usually for internal-combustion engines.

The patents contained in subclass 86.3 have been taken from class 29, Metal-Working, subclass 87.1, Assembling, Spring appliers and removers, and those contained in subclass 86.4 have been taken from class 29, Metal-Working, subclass 84, Assembling, and class 81, Tools, subclass 3, Special.

In class 220, Metallic Receptacles, (Division XL,) in subclass 47, Closures, Opening devices, add to the definition the following note:

Note.—Attention is called to this class, subclass 43, for opening devices for slip-type closures.

J. T. NEWTON,
Commissioner.

ADJUDICATED PATENTS.

(U. S. C. C. A. Ill.) The Brooke patent, No. 723,983, for apparatus for cutting molten glass, *Held* infringed by the use of the apparatus of the Steimer patent, No. 549,404, with the addition of the Brooke automatic cutting means. *Schram Glass Mfg. Co.* v. *Homer Brooke Glass Co.*, 263 Fed. Rep., 903.

(U. S. C. C. A. N. J.) The Jepson patent, No. 1,179,373, for an electrical system of distribution particularly adapted for use in railroad passenger-cars. *Held* valid, but not infringed. *Safety Car Heating & Lighting Co.* v. *Gould Coupler Co.*, 263 Fed. Rep., 970.

(U. S. C. C. A. Nebr.) The Luten patents, Nos. 853,202, 853,203, 818,386, and 999,663, for reinforced-concrete bridges, *Held* void for want of invention. *Luten* v. *Wilson Reinforced Concrete Co.*, 263 Fed. Rep., 983.

(U. S. C. C. A. Nebr.) The Luten patents, Nos. 818,386 and 853,203, for reinforced concrete construction. *Held* void for lack of invention. *Luten* v. *Allen et al.*; *Luten* v. *Young et al.*, 263 Fed. Rep., 986.

(U. S. C. C. A. Ill.) The Ovenshire patent, No. 800,237, for improvement in infants' bands or shirts, *Held* void for lack of invention. *Minneapolis Knitting Works* v. *Marshall Field & Co.*, 263 Fed. Rep., 987.

(U. S. C. C. A. Ohio.) The Tufford reissue patent, No. 14,049, for a rubber heel, *Held* not infringed on review of an order granting a preliminary injunction. *Elyria Nat. Rubber Heel Co.* v. *I. T. S. Rubber Co.*, 263 Fed. Rep., 979.

(U. S. D. C. Ohio.) The Van Kannel reissue patent, No. 14,255, for an automatically-collapsible revolving door, claims 1, 2, 3, 13, 22, 23, and 24, *Held* invalid, as anticipated by Patent No. 656,062, issued to the same inventor and now expired. *Van Kannel Revolving Door Co.* v. *Winton Hotel Co.*, 263 Fed. Rep., 988.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business June 19, 1920.

Room No.	Divisions and subjects of invention.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Feb. 24	Feb. 27	134
128	2. Bee Culture; Curtains, Shades, and Screens; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Oct. 28	Feb. 1	975
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 23	Jan. 5	659
234	4. Conveyers; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pneumatic Despatch; Pushing and Pulling Implements; Railway Mail Delivery; Store-Service; Traversing Hoists.	Oct. 29	Apr. 12	1,318
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 31	Mar. 30	350
318	6. Bleaching and Dyeing; Chemicals; Explosives; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 7	Apr. 8	486
312	7. Games and Toys; Optics; Photography; Velocipedes	Feb. 24	Apr. 2	872
151	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 8	May 25	364
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Feb. 3	Jan. 17	528
235	10. Carriages and Wagons; Land-Vehicles; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Motor Vehicles.	Jan. 14	Apr. 3	932
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Spring Devices; Whips and Whip Apparatus.	Feb. 11	Feb. 24	767
222	12. Machine Elements	Nov. 3	Apr. 14	1,142
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Button Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 25	Apr. 13	1,191
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 5	Feb. 20	619
308	15. Bread, Pastry, and Confection Making; Coating; Fuel; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 20	Mar. 29	1,082
111	16. Radiant Energy; Telegraphy; Telephony	Oct. 31	Dec. 11	871
307	17. Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 9	May 6	235
220	18. Fluid-Pressure Regulators; Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 15	Jan. 20	979
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 18	Jan. 10	579
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 26	Apr. 1	674
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 18	Apr. 22	409
240	22. Aeronautics; Firearms; Ordnance	Mar. 25	Apr. 16	258
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 22	Apr. 26	602
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Nov. 19	Apr. 23	614
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 20	May 8	215
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 3	Nov. 20	731
214	27. Brushing and Scrubbing; Grinding and Polishing; Laundry; Washing Apparatus	Feb. 19	Apr. 2	579
225	28. Internal-Combustion Engines	Jan. 26	Apr. 8	589
147	29. Boring and Drilling; Chucks or Sockets; Coopering; Rod Joints or Couplings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Nov. 12	Apr. 28	647
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 7	May 14	1,028
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 6	Jan. 12	1,052
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Oct. 8	Apr. 6	1,193
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 29	Apr. 3	501
304	34. Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Track-Sanders; Vehicle-Fenders.	May 24	June 1	143
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 17	May 21	486
201	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 17	Feb. 3	1,179
107	37. Electric Lamps; Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 28	Feb. 2	1,211
378	38. Animal Husbandry; Earth Boring; Fishing and Trapping; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 9	Feb. 14	620
220	39. Fluid Sprinkling, Spraying, and Diffusing; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 15	Nov. 14	1,048
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 26	Feb. 25	781
125	41. Resilient Tires and Wheels	Nov. 3	Mar. 3	815
114	42. Electricity, Conductors; Electricity-Transmission to Vehicles; Electricity, Conduits; Electric Signaling	Jan. 2	Jan. 26	1,079
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Purification.	Nov. 18	Mar. 5	857
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Jan. 31	Apr. 13	303
370	45. Clutches; Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors	Jan. 8	Feb. 3	819
332	46. Educational Appliances; Fire-Escapes; Ladders; Paper Files and Binders; Railway-Brakes; Wooden Buildings.	Nov. 17	Jan. 13	791

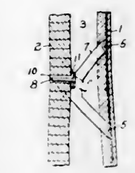
Oldest new case, Sept. 18, oldest amended, Nov. 14.
Total number of applications awaiting action..... 33,607

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Feb. 13	Mar. 3	2,560
	Designs	Jan. 14	Mar. 18	774
	Labels and Prints	Feb 2	Feb. 2	1,029

PATENTS

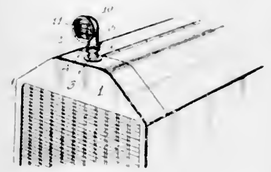
GRANTED JUNE 29, 1920.

1,344,608. CONCRETE STACK. WALTER M. ALSTON, Pittsburgh, Pa., assignor to The Baker-Dunbar-Allen Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 9, 1919. Serial No. 270,279. 3 Claims. (Cl. 72—94.)



1. A stack or chimney comprising an outer unitary self-sustaining shell of cementitious material, inwardly-extending annular brackets supported by said shell at vertical intervals thereof, and an internal lining formed in sections each supported by one of said brackets, whereby said outer shell forms the sole support for itself and for said lining sections.

1,344,609. RADIATOR VENTILATOR AND CAP. WILLIAM H. APPLEBY, Windsor, Ontario, Canada. Filed May 19, 1919. Serial No. 298,341. 1 Claim. (Cl. 220—86.)



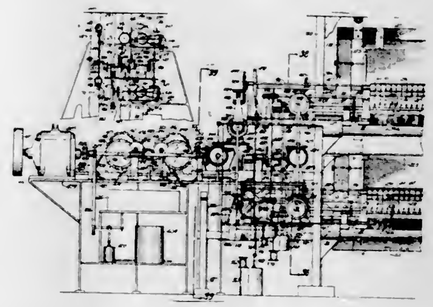
The combination with a filling connection of a radiator, the filling connection having an annular seat, of a funnel shaped air intake device having its lower end connected to the filling connection of said radiator, and a detachable cap on the seat of the filling connection of said radiator and retained thereon by the lower end of said device.

1,344,610. GLAZIER'S STRIP OR POINT. HOMER A. BAILEY, Elberta, Mich. Filed June 4, 1918. Serial No. 238,209. 1 Claim. (Cl. 20—56.4.)



A glazier's strip having flanges perpendicular to each other, one of said flanges being provided with notches in its longitudinal edge, the bottom of said notches terminating substantially midway of the flange and in longitudinal alinement with each other, a V-shaped prong extending outwardly from each notch, said prongs being at right angles to the flange on which they are located and extending in the opposite direction to the flange which is not notched this last mentioned flange being adapted to engage the surface of a window pane when the same is within a window frame rabbet and the prongs being adapted to be embedded in the side of said rabbet.

1,344,611. EMBROIDERING-MACHINE. ALBERT BERSIN, Brooklyn, and EMANUEL SCHEYER, New York, N. Y. Filed Mar. 6, 1916. Serial No. 82,512. 108 Claims. (Cl. 112—86.)



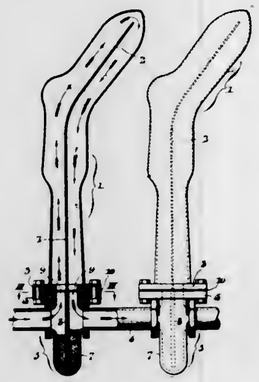
1. In a sewing machine, the combination of a needle, a mounting for same suitably constructed to permit reciprocation and oscillation, mechanism for causing said reciprocation and oscillation, coöperating stitch forming mechanism, a fabric frame suitably mounted to have motion, and mechanism for causing translation of said frame in all directions in a plane, said mechanism consisting of at least two component parts, each component part adapted to cause motion of said frame in reversible directions along the line predetermined for said component, said reciprocation being controlled in accordance with the motion of the frame resulting from its combined motions along said components.

18. In a sewing machine, the combination of a needle suitably mounted to reciprocate, oscillate and to have its oscillating position rotated, mechanism for varying the amplitude of oscillation of said needle, coöperating stitch forming mechanism, a fabric piercing tool adapted to rotate with the oscillating position of the needle and to have its point of entry into the fabric automatically adjusted to suit the amplitude of oscillation of the needle, and mechanism suitably constructed to reciprocate said tool repeatedly during the operation of the needle and said coöperating stitch forming mechanism.

108. A sewing machine comprising, a plurality of needles and coöperating stitch forming mechanism, a fabric frame, unit elements for controlling the action of the needles and stitching mechanism and the motion of the fabric frame, a record marked in accordance with the desired design, means for producing relative movement of the record and a part of each unit element, whereby the motions of the unit elements are controlled, means, forming a part of each unit element, and controlled by the motions of the unit elements, adapted to control the ac-

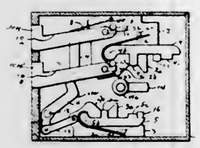
tion of said means for producing said relative movement of the record, and adapted to coöperate with the record to control the motions of the unit elements, independent means adapted to cause actuation of the means for producing said relative movement, to stop said relative movement, upon the breaking of any thread.

1,344,612. APPARATUS FOR DRYING HOSIERY AND THE LIKE. FREDERICK L. BICKEL, Ivyland, Pa. Filed May 31, 1919. Serial No. 300,845. 4 Claims. (Cl. 223—17.)



3. An apparatus for drying hosiery and the like consisting of a number of hollow forms interposed in serial relation in a steam supply conduit, said forms having individual water sealed pockets which normally serve as traps for the water of condensation; but which, in the event of the clogging of any of the associated forms, will permit the steam to by pass and supply the remainder of the system.

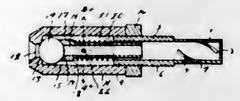
1,344,613. LOCK. ALEXANDER BLOCK, New York, N. Y. Filed Dec. 30, 1919. Serial No. 348,266. 20 Claims. (Cl. 70—14.)



1. In a lock, the combination of a carrier, a plurality of hooked bolts movably mounted thereon, a link for yieldingly connecting said bolts, means for moving said carrier and said bolts in unison, and for subsequently moving said bolts independently on said carrier to project said bolts into engaging position, and means for locking the bolts against reverse movement when they are in said projected position.

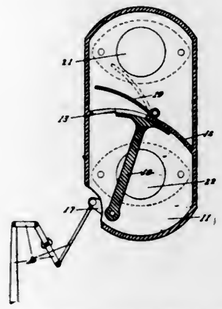
1,344,614. AUXILIARY VALVE FOR INTERNAL-COMBUSTION ENGINES. JOHN O. BROCK, Wilmington, N. C. Filed July 31, 1918. Serial No. 247,549. 1 Claim. (Cl. 251—145.)

The combination with an intake manifold, of a tubular nipple threaded through the wall thereof adjustably, means on the nipple to retain it in its proper adjusted position, a valve casing threaded on the nipple exteriorly of the manifold, one end of the interior of the casing having a valve seat, a valve to coöperate therewith, a retainer loosely mounted in the nipple to engage the valve to hold it seated, one end of the retainer having a shoulder, and spring tensioning means between one end of the nipple and said shoulder adapted to be overcome on the suction



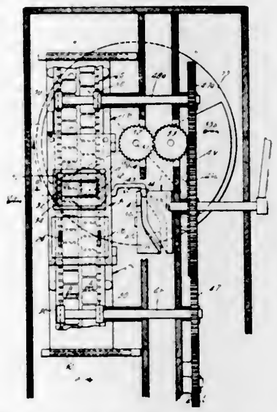
stroke of the piston of the engine to unseat the valve, whereby an auxiliary supply of air may be drawn into the manifold, said tubular retainer having diametrically opposed openings, through which the air passes.

1,344,615. AIR-TEMPERATURE REGULATOR FOR GAS-ENGINES. CARL F. BROSTROM, Minneapolis, Minn. Filed Mar. 6, 1920. Serial No. 363,743. 3 Claims. (Cl. 123—122.)



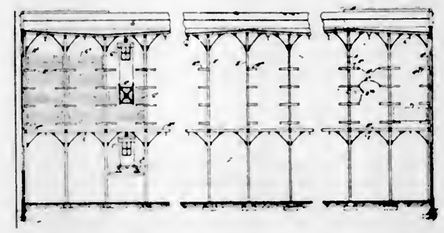
1. In combination with a gas engine having a carbureter, an air heater and a speed governor; of a two chambered casing secured to said heater, means whereby air may pass from one chamber through said heater and other chamber and to said carbureter, a port connecting said chambers, operative connection between said port and said speed governor.

1,344,616. MOTION-PICTURE KINETOGRAPH AND METHOD OF EXPOSING FILMS. LLOYD BROWN, Los Angeles, Calif., assignor to Lloyd Brown and Alexander Graydon, trustees of a trusteeship called Silent Drama Syndicate. Filed Dec. 16, 1918. Serial No. 267,046. 16 Claims. (Cl. 88—16.4.)



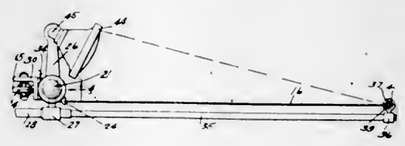
14. The method of exposing moving picture films through an aperture plate, which consists in moving each successive image area relative to the aperture plate along successive oppositely diagonal paths, so as to bring each image area successively into register with the aperture plate.

1,344,617. STORAGE-BUILDING. EDWARD WESLEY BURGESS, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 11, 1919. Serial No. 276,329. 10 Claims. (Cl. 20—1.13.)



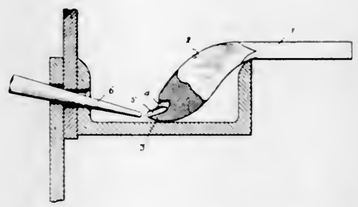
5. A storage building comprising rows of columns which divide the storage space into vertical storage aisles, and means carried by the columns for sub-dividing the said aisles into storage levels and supporting the articles to be stored at points offset laterally from the rows of columns.

1,344,618. DIRECTION-SIGNAL FOR VEHICLES. WILLIAM H. CASE, Robbinsdale, Minn. Filed May 2, 1918. Serial No. 232,019. 2 Claims. (Cl. 40—85.)



1. A direction signal for vehicles comprising a spring actuated roller, a signal flag normally furled on the roller, a tubular guide having a longitudinal slot, a flag unfurling bar mounted in the guide and having, at its outer end, a post to which the outer end of the flag is secured, a gravity held dog carried by the bar and working in the slot of the guide, and a notch in the guide with which said dog engages at the limit of the projecting movement of the bar to hold the flag unfurled.

1,344,619. DRIFT-BAR. FREDERICK H. COLVIN, Duluth, Minn. Filed Mar. 18, 1919. Serial No. 283,387. 2 Claims. (Cl. 29—86.1.)

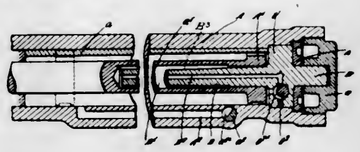


1. A drift bar having a straight shank, an offset head, a depression within the head for the reception of the end of a pin being engaged axially, and a concavo-convex protruding lip formed integral with the head and coöperatively with the depression, substantially as and for the purpose described.

1,344,620. PROCESS OF PREPARING PULP HAVING WAX-IMPREGNATED FIBERS. FRANK B. DAVIDSON, Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 21, 1919. Serial No. 291,654. 4 Claims. (Cl. 92—21.)

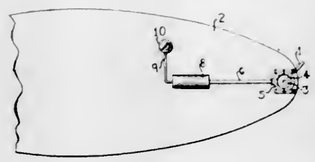
1. The process of preparing pulp having wax impregnated fibers, consisting in mixing together papers having waxed and unwaxed portions so as to have enough waxed fibers to impregnate with the wax liberated from the waxed portions of the papers substantially all the unwaxed fibers that may be present in the mixture, adding enough water to reach all parts of the mixture, and cooking and agitating the mixture under steam pressure to soften the fibers of the papers and the wax and cause the latter to be forced into the fibers of the papers.

1,344,621. ORDNANCE RECOIL AND RUN-OUT APPARATUS. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Nov. 10, 1919. Serial No. 337,042. 3 Claims. (Cl. 89—43.)



1. In ordnance recoil apparatus, the combination with the recoil cylinder, the recoil piston working therein, and means for gradually cutting off the flow of the liquid past the piston during recoil, of a conduit in the wall of the cylinder serving to establish liquid communication between each end of the recoil cylinder and independent of the first mentioned means, a valve controlling said conduit, and means for moving said valve automatically during the elevation of the gun so as to obtain an approximately uniform length of recoil at all angles of elevation.

1,344,622. RUDDER-POSITION INDICATOR. CHARLES DOVIKEN, Brooklyn, N. Y. Filed Mar. 9, 1920. Serial No. 364,559. 4 Claims. (Cl. 116—126.)

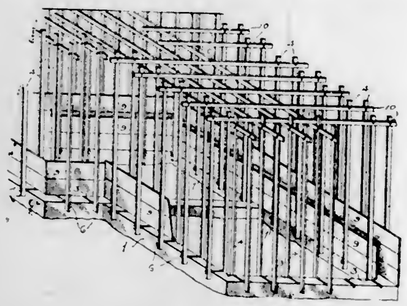


1. A rudder-position indicator comprising a fluid chamber, a gage, a pipe connection from the fluid chamber to the gage, and a mechanical connection between the fluid chamber and the rudder, the relation of said connection to the rudder being such that turning of the rudder from either extreme position to the other produces unidirectional action upon the fluid chamber.

1,344,623. CONCRETE CONSTRUCTION. ERNEST A. EASTMAN, Dayton, Ohio. Filed Sept. 23, 1916. Serial No. 121,762. 4 Claims. (Cl. 25—131.)

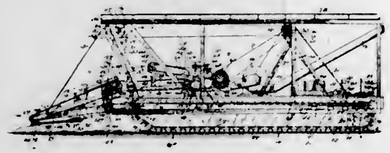
1. In a form for structures of concrete or similar material, struts or uprights arranged at opposite sides of a foundation or base thereof, tie rods connecting the struts

in pairs extending transversely in relation with said base or foundation and supported thereon, spacer heads upon



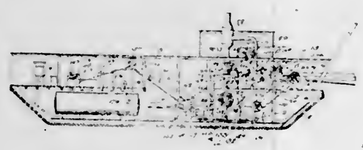
the tie rods intermediate the struts and lateral faces of the foundation and base, and form boards supported intermediate said struts and resting upon the spacer heads.

1,344,624. CATERPILLAR-TRACTOR SWAMP-HARVESTER. HARRY ELLWOOD ELLIS, Leesburg, Fla. Filed Jan. 10, 1919. Serial No. 270,506. 6 Claims. (Cl. 56—10.)



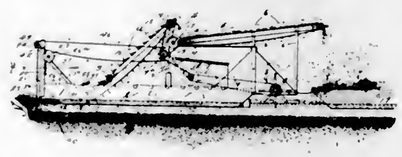
1. In a swamp harvester, the combination with a main frame, of an auxiliary frame connected to the forward end thereof and provided with a harvesting mechanism and an elevating conveyer, a combined crusher and shredder on the main frame, transferring means between the combined crusher and shredder and said conveyer, a mechanism for withdrawing the shredded material from the shredder and discharging it rearwardly, said main frame having endless traction means, and unitary means for operating the traction means and the aforesaid mechanisms.

1,344,625. APPARATUS AND PROCESS FOR PRODUCING PULP. HARRY ELLWOOD ELLIS, Leesburg, Fla. Filed Feb. 7, 1919. Serial No. 275,661. 8 Claims. (Cl. 92—1.)



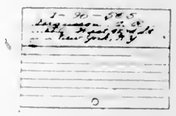
1. In a machine for the manufacture of pulp, the combination with a frame, of a grinding mechanism on the frame, a combined crushing and shredding mechanism on the frame for crushing and shredding the raw green material, a separating device for the material, means for transferring material from the crusher and shredder to the separator, conveying means for introducing the material into the grinding mechanism, and unitary operating means having connections with the grinder and the combined crusher and shredded, whereby said mechanisms may be operated, a combined compressor and agitator for the fiber, having connections with the unitary operating means, means for conveying the fiber into said combined compressor and agitating device, screening means operated by the unitary operating means, a connection between the combined compressor and agitator and the screening means, and wet machines connected to and operated by the unitary operating means and adapted to receive the fiber from the screening means, and means for pressing the fiber.

1,344,626. AQUATIC-PLANT HARVESTER. HARRY ELLWOOD ELLIS, Leesburg, Fla. Filed Dec. 16, 1919. Serial No. 345,422. 6 Claims. (Cl. 56—9.)



1. An aquatic plant harvester comprising a float, vertical guides carried at the forward end of said float, a vertically slidable cutter frame slidable in said guides, counter weights for balancing the cutter frame, cutters carried by said cutter frame, an inclined gathering conveyer having its upper end pivoted to frame work of the float, the free end of said inclined conveyer being disposed to the rear of the cutters and spaced therefrom, means connecting the cutter and conveyer for adjusting the cutter frame and the inclined gathering conveyer simultaneously, and means for propelling the float forwardly.

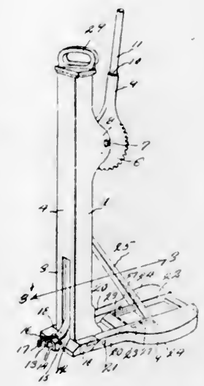
1,344,627. INDEXING AND RECORDING MEANS. ALAN ROBB FERGUSSON, New York, N. Y. Filed June 4, 1917. Serial No. 172,625. 11 Claims. (Cl. 283—36.)



1. An indexing element bearing numerical digits between 1 and 9, inclusive, each of a plurality of a selected number of the letters forming the name indexed being represented by a single digit between 1 and 9, inclusive, the particular digits on said element being those representing the two initials, and the first two and last two letters of the name being indexed, as set forth and described.

1,344,628. SPIKE-PULLER. FRANK FORTIN, Washburn, Wis. Filed June 17, 1919. Serial No. 304,894. 1 Claim. (Cl. 254—18.)

The combination with a vertical standard of a spike puller having a foldable foot engaging base, said base comprising a pivoted member pivoted to the lower end of the standard and having a foldable brace engaging the rear side of the standard and pivoted at its lower end in elongated slots of the foldable base by means of pivot pins engaging said slots, said foldable base being provided with inclined surfaces for engaging inclined surfaces of



the standard for limiting the downward pivoting of the base and means whereby the pivotal pins of the base may be easily removed from the slots.

1,344,629. PLIERS. LEWIS D. FOWLER, Oklahoma, Okla., assignor of one-half to J. M. Postelle, Oklahoma, Okla. Filed Dec. 19, 1919. Serial No. 345,944. 2 Claims. (Cl. 7—5.)

1. A tool of the character described comprising a pair of handles, one of which is provided with an enlarged head constituting a lateral overhang having a concave toothed surface at its inner side, and the other of which terminates in a substantially Y-shaped portion toothed along that surface which faces toward the said toothed concave surface, means for pivoting the second handle to the first handle at the heel of the Y and in substantial alinement with the teeth thereon, said means comprising a stud carried by one of said handles, the other of said handles being provided with a longitudinally extending slot having teeth along one of its edges with which said stud is adapted to engage and against which the said stud acts in a line substantially parallel with the direction of strain exerted in the operation of the tool.

1,344,630. METHOD AND APPARATUS FOR PREVENTING THE SPREAD OF FIRE. EDWARD E. FREE, Baltimore, Md., assignor to National Sulphur Company, New York, N. Y., a Corporation of New York. Filed July 5, 1917. Serial No. 178,657. 4 Claims. (Cl. 169—2.)

1. The method of preventing the spread of fire, resulting from explosions, consisting in storing an inert gas under pressure, and releasing said gas immediately following the explosion and directing said released gas into the fire area and in a direction opposite to the direction of

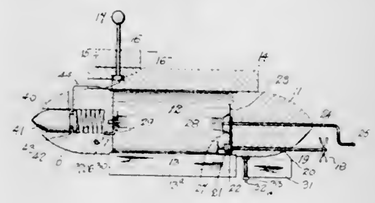


the fire-wave developed by said explosion, whereby the gaseous wave will oppose the movement of the fire-wave.

1,344,631. PRINTING-ROLLER COMPOSITION. ABRAHAM L. FRIEDLANDER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed March 19, 1919. Serial No. 283,504. 3 Claims. (Cl. 106—5.5.)

1. A resilient ink-distributing roller formed of a vulcanized composition comprising a mixture of previously-vulcanized and previously-unvulcanized rubbers in nearly equal proportions by weight and together constituting the greater part of the composition.

1,344,632. TOY SUBMARINE. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed July 30, 1917. Serial No. 183,495. 7 Claims. (Cl. 46—37.)

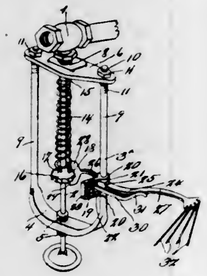


1. A toy submarine, having bow and stern blocks, a separate hollow section intermediate said blocks, a motor mounted in said hollow section, and a propeller operatively connected with said motor.

1,344,633. VALVE CONTROLLING DEVICE. RUBY JOE GRIGSBY, Hollin, La. Filed December 5, 1917. Serial No. 205,634. 1 Claim. (Cl. 137—139.)

The combination with a valve casing having a lateral extension and provided with a longitudinally movable valve stem passing through and extending beyond the extension, of a cross piece threaded to the extension and having an opening through which the stem passes to extend beyond and move longitudinally thereon, an inverted U-shaped member hav-

ing the upper ends of its arms adjustably fixed to the ends of the cross piece, the lower arch of the U-shaped member having an adjustable bearing which is removable and forming bearing for the valve stem, a ratchet splined to the valve stem, a coiled spring surrounding the stem and connecting between the ratchet and the cross piece and being under tension when the valve is opened, a detent lever for said ratchet pivoted on one of the arms of the U-shaped member, said lever having one of its arms provided



with an elongated ratchet tooth engaging blade whereby as the valve stem moves longitudinally as the valve is opened to various degrees the end of the detent lever will be kept in engagement with the teeth of the ratchet, spring means for normally holding the elongated tooth in engagement with the teeth of the ratchet and means whereby said detent lever may be rocked for releasing the same from engagement with the ratchet and allowing the valve stem to be revolved by the spring and the valve closed.

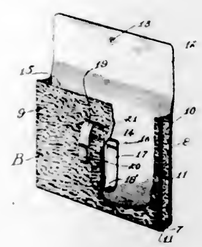
1,344,634. AEROPLANE-BODY. HENRY L. HASKELL, Ludington, Mich., assignor to Haskelite Manufacturing Corporation, Chicago, Ill. Filed Apr. 9, 1918. Serial No. 227,469. 10 Claims. (Cl. 244—30.)



1. An aeroplane body cigar-shaped in general form comprising upper and lower wall members formed of multiple-ply veneer and having integral edge flanges, said wall members being conformed in cross and longitudinal section so that one member complements the other, a horizontal cross plate of multiple-ply veneer disposed at the rear end of said body between said wall member flanges and extending outwardly providing horizontal rudder members, a vertical rudder member of multiple-ply veneer secured at its lower edge to said horizontal cross plate and projecting through an opening in the top wall member, and cross partitions of multiple-ply veneer fitting within and secured to the walls of the body, the upper part of the body having a pit opening between said partitions, said veneer plies and parts being united throughout by a water-proof glue.

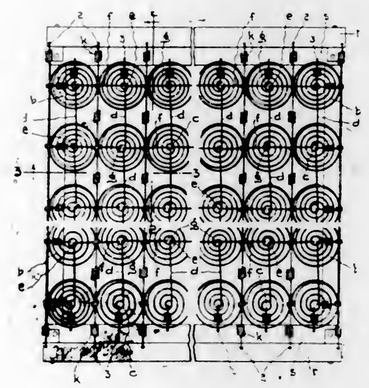
1,344,635. CIGARETTE POUCH-PACKAGE. GEORGE W. HILL, New York, N. Y., assignor to American Tobacco Company, a Corporation of New Jersey. Filed Aug. 4, 1916. Serial No. 113,092. 3 Claims. (Cl. 206—41.)

1. A cigarette package comprising a box-like casing of relatively stiff material and in which the cigarettes are initially packed, said casing having a permanently open top portion, and a bendable front wall portion adjacent the open top portion, and a flexible pouch in which the casing is slidably received and removably contained, such pouch having a body portion conforming to the shape of the casing and having a flexible closure flap connected with the top portion of one wall and adapted to overlie the open top portion of the casing and to lie flat against that wall of the pouch opposite to the wall with which it is con-



nected, and means associated with the pouch and operable from outside the front wall of the latter for moving the casing partially outward through the top end of mouth of the pouch to expose the cigarettes within the casing, said means being concealed when the flap is closed.

1,344,636. SPRING-BED. HENRY M. JACKSON, Montreal, Quebec, Canada. Filed July 28, 1919. Serial No. 313,715. 3 Claims. (Cl. 5—40.)

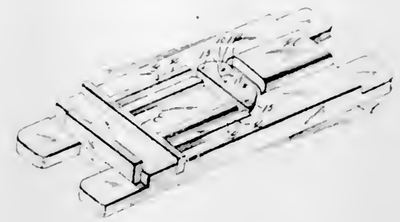


1. In a spiral spring structure the spirals of which are of truncated conical form disposed with their truncated apices downward and each ending in an eye; means connecting the eyes together in the form of a supporting fabric such means for connecting the eyes together consisting of an extension of angular form of the wire of each spiral, such extension passing through the eye of a second spiral and engaging the eye of a third spiral, and elastic means connecting together the inverted bases of the spirals.

1,344,637. DIE. EMELIA F. KANDLBINDER, Springfield, Ill. Filed Aug. 19, 1919. Serial No. 318,578. 3 Claims. (Cl. 153—21.)

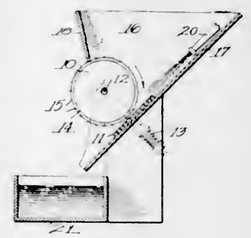
1. A die for forming channels on each side of a metallic body member comprising two die members, said die members having longitudinal bars whereby right angle bends are formed on the edges of the body member, one of said die members carrying a forming core adapted to be fit

between the bent flanges, and longitudinal bars having concave surfaces carried by the other die member and



adapted to engage the edge of the flanges whereby said edges will be turned toward each other thereby forming channels.

1,344,638. FOOD PRODUCT AND PROCESS OF MAKING THE SAME. FRANK E. KINSMAN, Leominster, Mass. Original application filed June 4, 1917, Serial No. 172,577. Divided and this application filed Nov. 22, 1918. Serial No. 263,765. 3 Claims. (Cl. 99—5.)



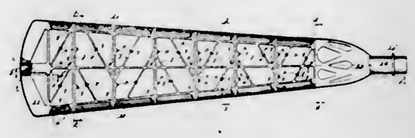
1. The process of preparing a food product which consists in bringing softened whole beans up to the boiling point in water containing an alkaline astringent to swell and wrinkle the hulls without affecting the interior of the beans, discontinuing the boiling as soon as it commences to prevent cooking of the beans and loss of their original form, washing the astringent from the beans, then passing the beans between two relatively movable surfaces to mechanically remove the hulls from the uncooked beans, cooking the beans thereafter and thereby reducing them to a pulp, drying, grinding, and bolting the pulp to produce a dry cooked food in powdered form suitable for shipping and having good keeping qualities.

1,344,639. SIGHT FOR FIREARMS. JENS E. KRAFT, Groveland, Calif. Filed June 5, 1919. Serial No. 301,893. 2 Claims. (Cl. 33—52.)



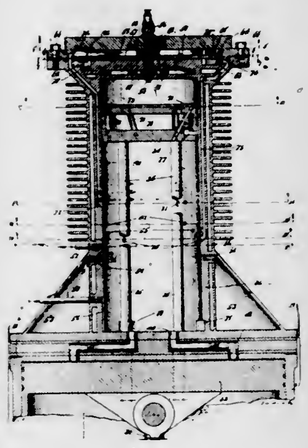
1. A firearm foresight comprising a base adapted to be mounted on the barrel of the firearm, a metallic shell mounted on said base and having its rear end open, and a composition filling said shell and visible at the open rear end thereof, said composition being colored red.

1,344,640. PROPELLER-BLADE. VICTOR H. LEINWEBER, Chicago, Ill., assignor, by direct and mesne assignments, to Continental Air Craft & Transportation Company, Chicago, Ill., a Corporation of Arizona. Filed June 26, 1918. Serial No. 242,018. 7 Claims. (Cl. 170—163.)



7. A propeller blade comprising an interior openwork metallic frame made in sections, said sections abutting each other and secured together and an exterior metallic shell inclosing said frame and secured thereto.

1,344,641. INTERNAL-COMBUSTION ENGINE. FREDERICK H. LEINWEBER, Chicago, Ill.; Curtis H. Leinweber, William H. Leinweber, and Victor H. Leinweber executors of said Frederick H. Leinweber, deceased. Filed Oct. 13, 1916. Serial No. 125,491. Renewed Jan. 24, 1920. Serial No. 353,813. 19 Claims. (Cl. 123—71.)

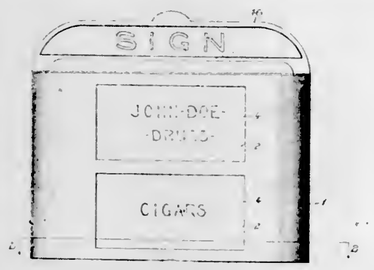


5. An internal combustion engine comprising a combustion cylinder closed at both ends; a piston operating in said cylinder under combustion at one end and to compress air at the other end; piston controlled parts and passages for utilizing the combustion for operating said valve; piston controlled ports and passages for utilizing the compressed air for closing said valve; and a supplemental port and passage operable by said pressure and arranged to assist in opening said exhause valve in case of failure of the charge to ignite, substantially as described.

1,344,642. CHANGEABLE EXHIBITOR. ANTONINO LO CASTO, Chicago, Ill. Filed Jan. 28, 1920. Serial No. 354,547. 5 Claims. (Cl. 40—33.)

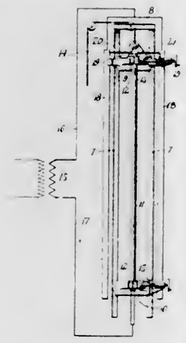
1. A device of the character described, comprising an upright post, a tubular casing mounted on said post and having a window in its upright marginal wall, a sign carrying member in said casing and rotatably mounted on said post and having radial projections, a rotary member on said post and provided with a pin acting on said projections to impart intermittent rotation to said sign

carrying member for bringing the signs thereon successively into view at said window, means for holding said



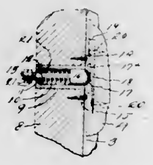
sign carrying member against rotation when not acted on by said pin, and means, including a motor, for rotating said rotary member.

1,344,643. METHOD OF AND APPARATUS FOR HEAT-TREATING METALLIC ARTICLES. HARRY P. MACDONALD, Montclair, N. J., assignor to The Snead & Co. Iron Works, a Corporation of New Jersey. Filed Aug. 5, 1919. Serial No. 315,385. 12 Claims. (Cl. 148—10.)



1. The herein described process of heat treating metallic articles by their internal resistance to the passage of an electric current therethrough, which consists in conducting the current thereto in such manner that the article will not be subjected to distorting magnetic factors.

1,344,644. AUTO-DOOR ANTIRATTLING DEVICE. TRUMAN J. MARTIN, Allentown, Pa. Filed Feb. 6, 1920. Serial No. 356,617. 1 Claim. (Cl. 292—74.)



An anti rattling device for automobile doors and the like, said device comprising a spring actuated member located on the door frame, said spring actuated member being so positioned that when the door is closed it will be forced inwardly against the action of its spring, and an inclined plate carried by the door and adapted to engage the spring actuated member so that said door will be prevented from vibrating.

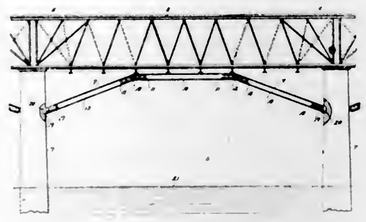
1,344,645. METHOD OF TREATING FABRIC. ERWIN E. A. G. MEYER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Continuation of application Serial No. 22,786, filed Apr. 21, 1915. This application filed Dec. 27, 1916. Serial No. 139,197. 27 Claims. (Cl. 91—70.)

3. The method of treating fibrous material which consists in first impregnating the same with an emulsified lubricating material and subsequently applying a vulcanizable plastic.

9. As an article of manufacture, a layer of fibrous material, an emulsified lubricant impregnating said material, and a layer of rubber intimately associated with said fibrous layer.

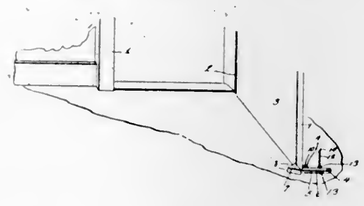
27. As an article of manufacture, a fabric impregnated with an oil emulsified in the presence of an amido compound of an acid.

1,344,646. BRIDGE-REINFORCEMENT. AUGUSTUS G. NEEDS, Perkiomenville, Pa. Filed Sept. 17, 1918. Serial No. 254,407. 2 Claims. (Cl. 14—2.)



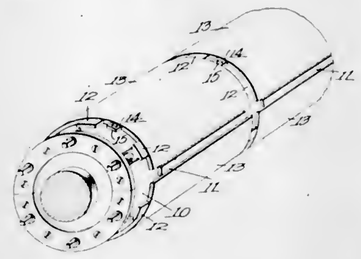
1. An independent reinforcement for a bridge consisting of a supporting frame including substantially horizontal and inclined longitudinally extending beams; transversely extending beams interposed between the adjacent ends of said horizontal and inclined beams; and angular plates respectively connecting said horizontal and inclined beams to the transverse beams, substantially as described.

1,344,647. DOOR STOP AND HOLDER. JOHN WESLEY NEWSOM, Breckenridge, Tex. Filed Feb. 11, 1919. Serial No. 276,296. 2 Claims. (Cl. 292—121.)



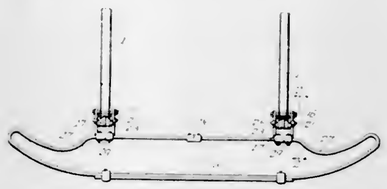
1. A door holder and stop comprising a pivotal pin secured in the floor, a pivoted member carried by said pin and being provided with a triangular shaped enlargement adapted to be engaged by the door, said pivotal pin having rigidly secured thereto one end of a flat spring, the free end of said flat spring being disposed between lugs carried by the pivotal member and means whereby the swinging movement of the door and pivotal movement of the pivoted member will be limited after the door passes the enlargement of the pivotal member.

1,344,648. MEANS FOR PREVENTING CREEPING OF PRINTING-PLATES. CONRAD NORDFORS, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 18, 1918. Serial No. 258,685. 4 Claims. (Cl. 101—378.)



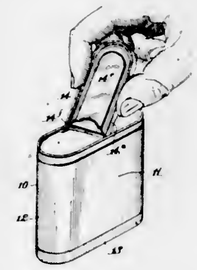
1. The combination with a plate cylinder, a plate thereon, margin bars, and a plate secured on the cylinder out of contact with a margin bar, of means for positively preventing the plate from drifting back against a margin bar.

1,344,649. BUMPER ATTACHMENT. WILLIAM G. PANCOAST and WILLIAM J. GROTENHUIS, Chicago, Ill., assignors to Bilex Products Company, Waukegan, Ill., a Corporation of Illinois. Filed June 13, 1919. Serial No. 303,920. 10 Claims. (Cl. 293—55.)



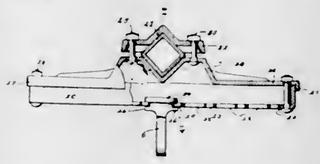
2. In a bumper attachment, the combination of a pair of corresponding bracket members adapted to be clamped on the opposite sides of a vehicle sill and each having an inturned flange at the outer end thereof, a bumper, and means for detachably securing the bumper to said flanges of the bracket members.

1,344,650. POCKET BOX OR CONTAINER. JONATHAN PETERSON, Brooklyn, N. Y. Filed Dec. 20, 1916. Serial No. 137,944. 1 Claim. (Cl. 220—21.)



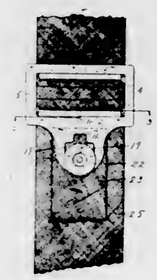
As a new article of manufacture, a closure for commodity-containers of the elongated mouth type, said closure having opposed rising and descending walls adapted to form a depression to receive the walls of the open top of the container, said rising wall corresponding in contour with and adapted to closely fit the exterior of the container open top, said closure having a raised portion leading from a portion of said descending wall to produce an intermediate structure located on different planes, said raised portion acting to support the descending wall against distortion at the sides, the remainding portion of such structure being adapted to act as a commodity-receiving depression.

1,344,651. STANCHION-ALINEMENT DEVICE. ROBERT F. RASMUSSEN, Oshkosh, Wis., assignor to C. A. Libbey Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1919. Serial No. 347,274. 5 Claims. (Cl. 119—149.)



1. A stanchion alining device comprising a support having a plurality of recesses therein, alined passageways of less width than the diameter of said recesses and connecting the same, a swivel bolt having a head movable to selectively engage said recesses, and means carried by the swivel bolt and engageable with the portion of the outer face of the casing surrounding the recesses to normally secure the swivel bolt from movement from one recess to another.

1,344,652. BUCKLE. HERMAN N. RODEN, Milwaukee, Wis. Filed Apr. 27, 1918. Serial No. 231,088. 2 Claims. (Cl. 24—198.)

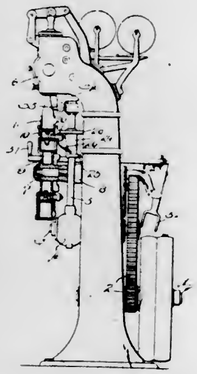


1. A one-piece buckle comprising a piece of sheet metal, transversely slitted to form parallel side bars and an intermediate central bar, integrally connected at their respective ends, said strip of metal being also provided with short slots extending across the ends of the slits, and the material between the slots and along the slits being bent in opposite directions on opposite sides of each slit, to form a pair of substantially parallel inwardly and outwardly extending oblique flanges, the separated margins of which are located substantially in a plane at right angles to the plane of the unslitted portion of the plate.

1,344,653. DEVICE FOR THE FEEDING OF BOTTLES OR OTHER VESSELS TO MACHINES INTENDED FOR TREATING THEM. ANDERS ANDERSSON ROSENGREN, Malmö, Sweden. Filed Dec. 5, 1919. Serial No. 342,859. 13 Claims. (Cl. 226—96.)

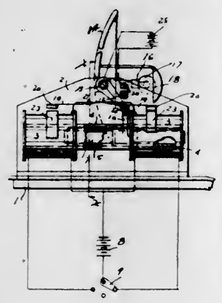
1. A device for feeding bottles or other vessels to capsuling and sealing machines consisting of holders designed to receive the vessels to be filled, an intermittently rotatable support, guides arranged in succession to one another in an endless row and formed radially of the support for

receiving the holders, means for effecting an intermittent movement of the support, means for moving the vessels to a position in which the vessels are capsuled and means



for locking the guides with the bottle holders therein so that a vessel which is being capsuled is thus held centered in relation to the capsuling device.

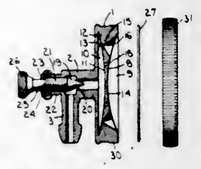
1,344,654. DIRECTION-INDICATOR FOR VEHICLES. WILLIAM F. ROTERMUND, Seattle, Wash. Filed Jan. 31, 1918, Serial No. 214,579. Renewed Apr. 26, 1920. Serial No. 376,737. 1 Claim. (Cl. 177—329.)



A direction signal for automobiles comprising a support, a member rotatively mounted in said support, a signal element secured on said member, oppositely-disposed solenoids mounted on said support, the cores of the respective solenoids being connected for simultaneous movement, a connection between said cores and the signal carrying member, a lateral projection from said connection, a spring strip secured to each respective solenoid and having its free terminal overlying the other solenoid, and a magnetic element underlying each free terminal and adapted to attract such terminal when the particular solenoid is energized, each strip being formed to engage said lateral projection to hold said projection and thereby the signal element in proper position.

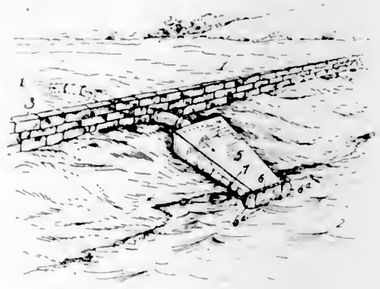
1,344,655. STETHOSCOPE. SOLOMON H. RUBIN, Roxbury, Mass. Filed June 30, 1919. Serial No. 307,699. 7 Claims. (Cl. 181—24.)

1. A stethoscope comprising a head and a transmitter, said head having a sound receiving chamber, and a resonance chamber located behind said sound receiving chamber, the wall between said chambers having minute per-



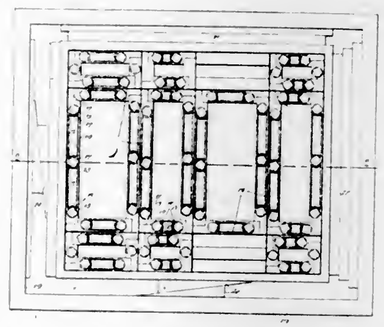
forations located at a distance from the center of said chamber and a passageway leading from said resonance chamber to said transmitter.

1,344,656. MEANS FOR DRAINING MARSHY AND SWAMPY LAND. JOSEPH H. SALTSMAN, Cleveland, Ohio. Filed Jan. 5, 1920. Serial No. 349,600. 2 Claims. (Cl. 61—10.)



1. Apparatus for draining marshy and swampy land, comprising a wall, a conduit extending across the wall, a container with which the conduit communicates, a valve located adjacent one end of the container, said valve being provided with extensions and trough members carried by the container, which troughs are located behind the said extensions.

1,344,657. FURNITURE FOR FORMING PAPER-BOX DIES AND FOR USE IN TYPE COMPOSITIONS. FREDERICK L. SCHLEY, Brooklyn, N. Y. Filed Jan. 16, 1920. Serial No. 351,798. 5 Claims. (Cl. 93—58.)

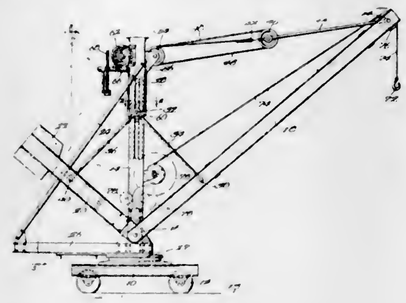


1. A furniture of the character described, comprising a strip having one end straight and its other end recessed on its inner face, and provided with pockets adapted to receive yieldable releasing plugs, said pockets extending from each longitudinal face of said strip and provided with a bottom intermediate said faces.

1,344,658. COMPOUND. LEWIS D. SHIVLEY, Kokomo, Ind. Filed Oct. 16, 1919. Serial No. 331,126. 2 Claims. (Cl. 148—14.)

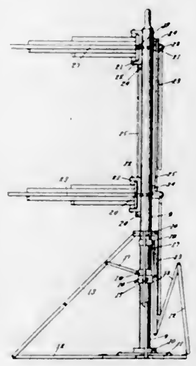
1. A composition of matter for use in tempering steel including the following ingredients substantially in the proportion stated, soda ash 2 lbs., borax 1 lb., boracic acid ½ lb., sal ammoniac 2 oz., saltpeter 1 oz., magnesia 2 oz., yellow prussiate of potash ½ oz., potassium cyanid ¼ oz., manganese 2 oz., sulfur ¾ oz., red lead 5 oz., and water 5 gallons.

1,344,659. COUNTERBALANCED CRANE. SIDNEY T. SJOBERG, Chicago, Ill., assignor to Whiting Foundry Equipment Company, Harvey, Ill., a Corporation of Illinois. Filed Dec. 26, 1919. Serial No. 347,355. 7 Claims. (Cl. 212—49.)



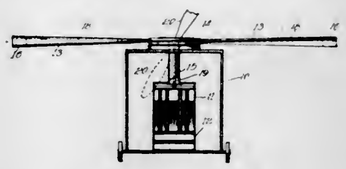
1. In mechanism of the class described, an upright mast, a jib pivoted to one side thereof, a counterweight mechanism pivoted to the other side thereof, a member slidable vertically of the mast, means connecting said slidable member to the jib and the counterweight respectively and means for moving said slidable member along the mast to simultaneously move the jib and counterweight.

1,344,660. CLOTHES-RACK. LEVI STEVENSON, Deer River, Minn. Filed Nov. 3, 1919. Serial No. 336,530. 3 Claims. (Cl. 68—34.)



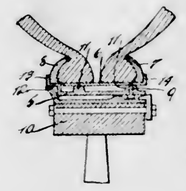
1. A device of the class described, consisting of a base, extensions hingedly secured to said base, a standard centrally positioned and secured to said base, jointed inclined braces pivotally secured at their upper ends to the standard and pivotally secured at their lower ends to the extremities of said base extensions, collars slidably mounted on the standard, link connections between said collars and said inclined braces.

1,344,661. AIR MACHINE AND PROPELLER. WILLIAM J. H. STRONG, Beloit, Wis. Filed Feb. 25, 1915. Serial No. 10,396. 5 Claims. (Cl. 244—18.)



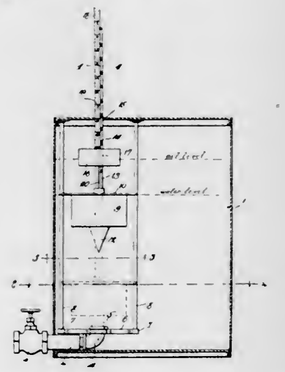
1. In a wing, a flue therein adapted to connect with a combustion chamber and a pipe within the flue adapted to connect with a fluid chamber.

1,344,662. DEMOUNTABLE RIM. BENEDETTO TAMBURELLO, New York, N. Y. Filed Aug. 19, 1919. Serial No. 318,497. 2 Claims. (Cl. 152—21.)



1. A tire supporting assembly consisting of a band to engage a wheel, a raised annular shelf carried by the said band concentric therewith, upstanding projections carried by said band a second band removably supported by the first named band and resting upon said projections, said second band being flush with said raised shelf, a tire engaging flange removably supported by said shelf, a second tire engaging flange carried by the removable band, and an upstanding flange carried by each band-member to engage the adjacent tire engaging flange.

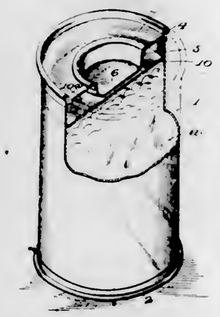
1,344,663. FLOAT-CONTROLLED LIQUID-GAGING AND CUT-OFF MEANS. GRANVILLE J. WALDREP, Fannett, Tex. Filed Aug. 4, 1919. Serial No. 315,158. 3 Claims. (Cl. 73—82.)



1. In a device of the class described, a tank having an outlet provided with a valve seat, a float adapted to be floated by liquid of given specific gravity and having a valve closure for closing the valve seat when the said liquid is discharged from the tank, and a second float adapted to be floated by liquid of less specific gravity than

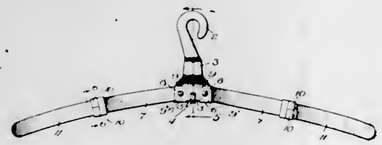
the first mentioned liquid and means provided for each of the floats whereby relative height of the liquids in the tank is indicated.

1,344,664. PACKAGING PULVERULENT MATERIALS. JOSEPH WANDER, Albany, N. Y., assignor to S. Wander & Sons Chemical Co., Inc., Albany, N. Y., a Corporation of New York. Filed Aug. 20, 1919. Serial No. 318,788. 4 Claims. (Cl. 23—11.)



1. A sealed package of pulverulent material embodying a container having its discharge mouth sealed by a closure, and a loose barrier disk within the container constructed and arranged to permit gas relief and prevent powdered contents being blown through said discharge mouth when the closure is broken.

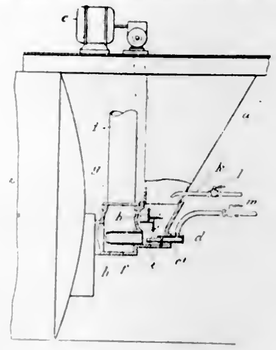
1,344,665. COAT-HANGER. JACOB L. WEBER, Chicago, Ill. Filed Jan. 30, 1920. Serial No. 355,125. 2 Claims. (Cl. 211—13.)



1. A coat hanger comprising a hanger plate having its upper end formed into a hook and having its lower end formed with side extensions, the lower edges of said side extensions being formed into lug portions which are bent laterally and upwardly, thus providing sockets, a pair of laterally extending arms, each having its inner end pivoted to one of said side extensions in position to engage the bottom of one of the sockets in order to limit the downward movement of the arm about its pivot, extensions to each arm, and means for holding said extension in slidable engagement with said arm, said means consisting of curved guide members at the end of each arm adapted to slidably receive one end of said extension and curved guide members at the opposite ends of said extension adapted to slidably receive said arm.

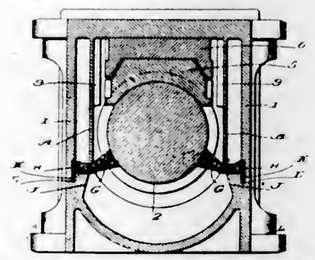
1,344,666. APPARATUS FOR FIRING WITH PULVERIZED OR BREEZE-FORMED FUELS. CARL AXEL ARVID WESTERBERG, Stockholm, Sweden. Filed Sept. 9, 1918. Serial No. 253,266. 3 Claims. (Cl. 110—105.)

1. The combination, with a furnace of a tapering receptacle for solid fuel, a chamber adjacent the lower part of said receptable, a mixing pipe within said chamber, a feed wheel in proximity to said mixing pipe for forwarding solid fuel thereto from said receptacle, a blast pipe having an upwardly-opening slot under the feed wheel, means for supplying air under pressure to said blast pipe to force the solid fuel into and through the mixing pipe, a gas supply pipe connected to said chamber, a source of gas having access to said pipe, this latter fuel being drawn into the combustion chamber by the entraining



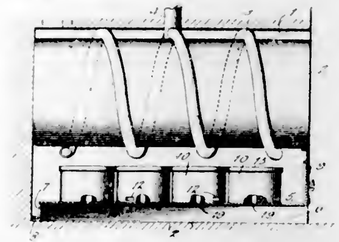
action of the air blast, and means for controlling the supply of solid and gaseous fuels and air to the furnace.

1,344,667. JOURNAL-BOX AND LUBRICATOR FOR CAR-AXLE JOURNALS. LACEY Y. WILLIAMS, Toledo, Ohio; Martin S. Dodd administrator of said Lacey Y. Williams, deceased. Filed Jan. 27, 1917. Serial No. 144,920. Renewed Feb. 10, 1919. Serial No. 276,179. 12 Claims. (Cl. 64—24.)



3. A journal box having oil receptacles inside the box at its opposite inner vertical sides with openings at the bottoms of said receptacles, and a ledge or seat below each receptacle to support an oil distributer which is slidable longitudinally of the journal into and out of position on said ledge or seat.

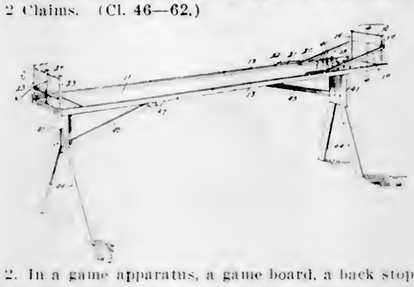
1,344,668. COMBUSTION DEVICE. SAMUEL YOUNG, Yquitos, Peru. Filed Jan. 27, 1917. Serial No. 145,631. Renewed May 12, 1920. Serial No. 380,887. 1 Claim. (Cl. 110—5.)



In a furnace, an air supply casing formed as an inverted trough-like member closed at one end and open at the other end, the sides and closed end of said member being provided with flanges secured upon the bottom of the furnace, the open end of said member communicating with the atmosphere through an opening in the front of the furnace, the top of said casing having formed therein a plurality of spaced holes of relatively small diameter, and a plurality of fuel containers disposed upon the top

of said casing and each provided in its bottom with a central hole registering with a hole in the top of the casing and each having a top provided with a central hole.

1,344,669. GAME APPARATUS. BONAVENTURE ZERENGA, Brooklyn, N. Y. Filed Jan. 14, 1919. Serial No. 271,146. 2 Claims. (Cl. 46—62.)



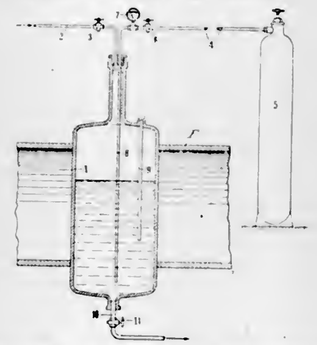
2. In a game apparatus, a game board, a back stop pivotally mounted thereon for vertical movement, a pair of slotted blocks mounted on the board, and a pair of braces pivotally connected to the back stop and having pins to enter slots of the block, said slots being of such a length as to limit the position of the back stop to a slight forward inclination to redirect an object thrown thereagainst.

1,344,670. SEPARATOR FOR GAS-STOVES. LOUIS V. ZIEGLER, Ridgefield Park, N. J. Filed July 1, 1919. Serial No. 307,939. 4 Claims. (Cl. 183—4.)



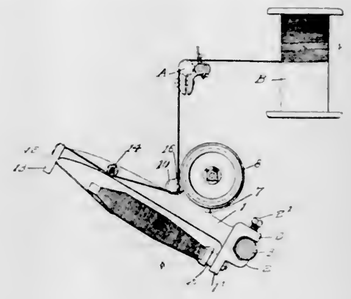
1. A device for separating greasy vapors from gases escaping through a gas stove flue, comprising a tubular cover adapted to be applied to the flue of a gas stove and having an imperforate top, grease absorbent material positioned at the under side of said top, and said cover having an outlet so disposed with respect to said material that the gases are deflected through the outlet by impingement on the surface of said material.

1,344,671. PROCESS FOR OBTAINING LIGHT HYDROCARBONS FROM HEAVY HYDROCARBONS. FRIEDRICH PERGTS, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Feb. 12, 1914. Serial No. 818,224. 4 Claims. (Cl. 196—26.)



1. The process of obtaining light hydrocarbons from heavy hydrocarbons which comprises heating the heavy hydrocarbons in contact with and under a pressure of hydrogen exceeding 20 atmospheres

1,344,672. TENSION DEVICE. PETER A. BISHOP, Fall River, Mass., assignor of one-half to himself and one-half to Arthur P. Bishop, Fall River, Mass. Filed June 10, 1919. Serial No. 303,019. 3 Claims. (Cl. 242—147.)

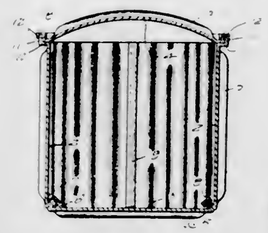


1. In a device of the class described, an arm, a bobbin support at one side of said arm, a guide on the opposite end of said arm, and axially alining said bobbin spool, a friction drum mounted on said arm and adjustable longitudinally thereof, a stud arm circumferentially adjustable relative to said drum, and a stud on said arm parallel to the axis of said drum, a guide disposed beyond said stud and drum, and a spooling device disposed beyond said guide.

1,344,673. MANUFACTURE OF UREA AND OF INTERMEDIATE PRODUCTS. CARL BOSCH, Ludwigshafen-on-the Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 21, 1915. Serial No. 3,559. 4 Claims. (Cl. 23—24.)

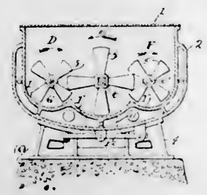
1. The manufacture of ammonium carbamate by bringing together ammonia and carbonic acid under pressure of three atmospheres or more.

1,344,674. CASKET. LEVI M. BOWMAN, Tulsa, Okla., assignor of one-half to W. A. Smith, Tulsa, Okla. Filed May 28, 1918. Serial No. 237,073. 1 Claim. (Cl. 27—6.)



A casket including side and bottom metallic reinforced walls, upwardly and inwardly directed flanges formed on the edges of the bottom wall, upwardly and inwardly directed flanges formed on the lower edges of the side walls and abutting the first named flanges, substantially U-shaped sealing strips in cross section securing the flanges together, means securing the ends of the side walls together, right angled flanges formed on the upper edges of the side walls, vertically disposed flanges formed on the right angled flanges, a metallic reinforced cover seated on the right angled flanges, vertically disposed flanges formed on the cover and abutting the first named vertically disposed flanges, and sealing strips securing the right angled flanges together.

1,344,675. MECHANICAL MIXER AND DRIER. HUDSON H. BUBAR and CECIL J. BEUST, Brooklyn, N. Y. Filed Mar. 15, 1918, Serial No. 222,618. Renewed May 24, 1920. Serial No. 383,927. 2 Claims. (Cl. 259—104.)



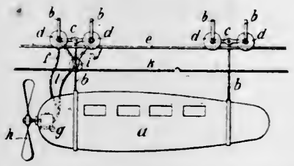
1. An apparatus of the character described comprising a container having a bottom provided with a central longitudinal arc-shaped channel and channels disposed parallel therewith on opposite sides thereof, a rotary shaft carrying spiral blades disposed over said central channel and rotary shafts carrying spiral blades disposed over said side channels, and means for rotating said central shaft in a direction opposite to the rotation of the said side shafts, the path of the blades of the central shaft interlapping with the paths of the blades of the side shafts.

1,344,676. RAILROAD-TIE. WILLIE BURCH, Lowell, Mich., assignor of one-third to Almeda Marley and one-third to Frank Halpin, Grand Rapids, Mich. Filed Sept. 2, 1919. Serial No. 321,210. 3 Claims. (Cl. 238—117.)



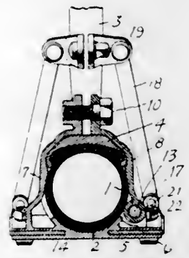
1. In a railroad track, the combination of an anchor of plastic material, a base plate embedded in the said anchor, an anchoring plate embedded in the anchor and having its ends projecting beyond the same, connecting plates secured to the said projecting ends of the anchoring plate and to the base plate, a tie bar seated in the base plate, clamping members engaging the edges of the tie bar and supported by the same and having interlocking engagement over the tie bar, and means on some of the clamping members to engage the base flanges of a track rail to hold the same to the tie bar.

1,344,677. AERIAL TRANSPORTER. HENRI COANDA, Paris, France. Filed Apr. 1, 1920. Serial No. 370,605. 5 Claims. (Cl. 104—117.)



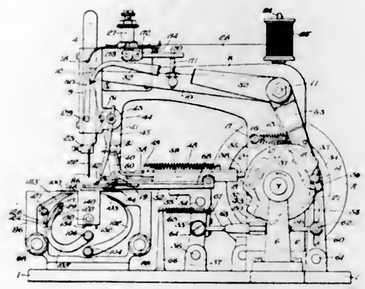
1. In an aerial transporter, the combination of two track cables located parallely side by side constituting a trolley cable track, two side trolleys running one on each of said track cables, a cabin supported by said trolleys, aerial propelling means for moving the trolleys and cabin along said cable track, and an auxiliary supporting cable for preventing the fall of said cabin in case of breakage of one of the track cables.

1,344,678. NON-SKID AND TRACTOR DEVICE. GRANT CHISAMORE, Los Angeles, Calif. Filed Apr. 8, 1919. Serial No. 288,492. 5 Claims. (Cl. 21—214.)



1. A plurality of segmental members adapted to form a continuous tread for the wheel tire, strap members projecting from each segmental member, means for clamping together oppositely disposed strap members, and integral extensions on the strap members and adapted to abut against consecutive wheel spokes.

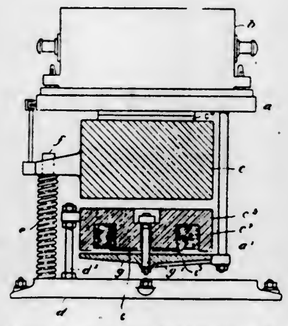
1,344,679. BUTTON-CARDING MACHINE. ARTHUR L. CURRIER, Newton Highlands, Mass., assignor to The J. W. Moore Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 14, 1916. Serial No. 72,054. 9 Claims. (Cl. 112—112.)



3. A sewing machine of the class described, adapted to card buttons by a single thread, comprising button and card holding mechanism, stitch forming mechanism, thread cutting mechanism, means to effect relative feeding movement between the stitch forming and button and card holding mechanisms to permit the stitch to engage a plurality of drilled holes in the button, means to actuate the holding and stitch forming mechanisms to automatically attach said button and card together by a stitch formed of a plurality of thread parts with each end locked in a loop of the button carding stitch, and means to actuate the thread cutting mechanism to trim each end of the thread.

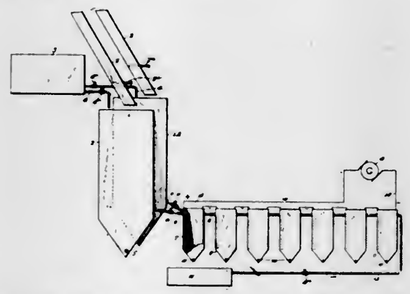
4. Stitch forming mechanism comprising a needle, a holder for supporting stock in line with the needle movements, a nipper and a hook arranged on the other side of said stock from the normal position of the needle, means to actuate a threaded needle to penetrate the stock and form a loop in the thread, means to move the nipper into said loop means to retract said needle and feed the stock, permitting the needle to again penetrate said stock at a spaced point from its first movement, means to again feed said stock relatively with the needle in line with the first needle movement, means for a further feeding of said stock and to cause the needle to penetrate the stock a fourth time, in combination with mechanism to actuate the nipper and hook whereby each free end of the thread forming the stitch is engaged by a separate one of the loops formed by said needle after it has moved through the stock.

1,344,680. ELECTRICALLY-DRIVEN SHAKER MOLDING-MACHINE. KARL OTTO DAHLMEYER, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Feb. 10, 1916. Serial No. 77,521. 2 Claims. (Cl. 22—45.)



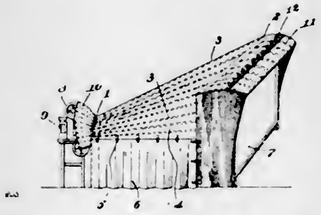
1. In an electrically driven shaker molding machine, an anvil composed of two parts, the one of said parts solely adapted to perform the electromagnetic functions of the anvil, the other part acting as anvil proper.

1,344,681. PROCESS OF EXTRACTING METALS. CHARLES JOSEPH ALBERT DALZIEL, London, England. Filed Jan. 17, 1920. Serial No. 352,051. 9 Claims. (Cl. 204—15.)



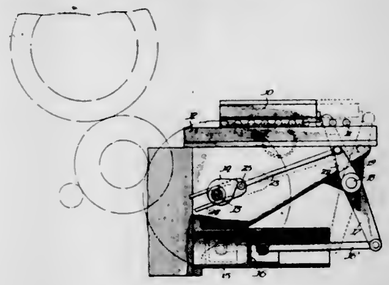
1. A process of treating metalliferous ores, which comprises continuously subjecting the said ore in a finely-divided state, in a leaching solution, at about atmospheric temperature, to agitation produced solely by a blast of air of sufficient intensity and for a sufficient length of time to produce a readily flowable thin pulp, and continuously passing such pulp through a series of electrolytic cells, while agitating the pulp solely by an air blast sufficient to prevent any such amount of sedimentation in the cells as would substantially obstruct the same.

1,344,682. PROJECTION APPARATUS. LOLAMORA DE HERNÁNDEZ, Buenos Aires, Argentina. Filed Apr. 3, 1920. Serial No. 371,080. 1 Claim. (Cl. 88—24.)



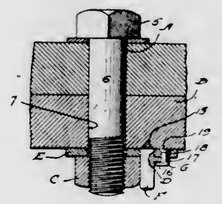
Projection apparatus adapted to be used in the light, comprising a screen, a light source, an image holder between the screen and light source, a plurality of rods arranged at intervals around the space between said screen and holder, the rods flaring forwardly from a small outline in front of the holder to a larger outline around the screen, an opaque covering supported upon said rods to exclude outside light from said space, a hood flaring rearwardly from said small outline over said holder, a hood extending forwardly from the outline of said screen to shield the screen from ouside light, the light sources adjacent the outer side of said last hood to make the screen inside the hood appear dark by contrast.

1,344,683. BUFFER FOR PRINTING-PRESSES. EDWARD F. DUDLEY, Oak Park, Ill., assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1917, Serial No. 163,833. Renewed Dec. 5, 1917. Serial No. 205,669. 12 Claims. (Cl. 267—15.)



1. In a printing press, the combination of cushioning means, having capacity for travel in excess of that required to take up slocks, and means for effecting such excess travel and bringing the rate of travel up to substantially that of the moving part to be cushioned, substantially as described.

1,344,684. NUT-LOCK. SAMUEL S. EISENHART, Akron, Ohio. Filed Feb. 18, 1920. Serial No. 359,622. 4 Claims. (Cl. 151—57.)

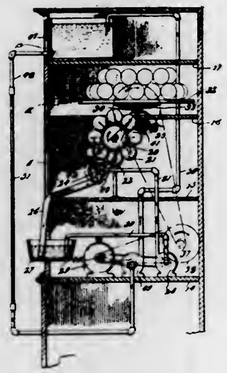


4. A nut lock comprising in combination, a plate provided with a transverse bore for the reception of a shank, and a transverse way adjacent said bore, a key removably extending through said way and provided with teeth at one end, to extend beyond one face of the plate, and a lateral projection provided at the other face thereof, said projection provided with a recess, and a catch pivotally carried by said plate and adapted to be swung into the said recess of said projection to hold said key in the said relative position with respect to the plate.

1,344,685. DISPLAYING DEVICE. JAMES FAZIO, Brooklyn, N. Y. Filed Oct. 15, 1919. Serial No. 330,810. 8 Claims. (Cl. 35—16.)

1. In a displaying device, a cabinet having openings therein, means for feeding a plurality of objects in one direction to be observed through one opening, means for

feeding a series of similar objects in another direction to be observed through another opening, a casing of a fruit

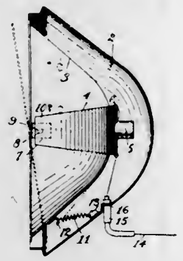


pressing machine having a moving part, said casing being located to receive the second feed, and means for moving said part.

1,344,686. COATING COMPOSITION. FRED GROVER FULLY, Portland, Oreg., assignor of forty per cent. to Julian H. Dix, Portland, Oreg. Filed Mar. 29, 1919. Serial No. 286,087. 2 Claims. (Cl. 134—27.)

2. A composition for preventing the formation of drops of water on glass comprising 66% of syrup, 33% of boiled water, 0.1% sodium bicarbonate and 0.9% of cinnamon.

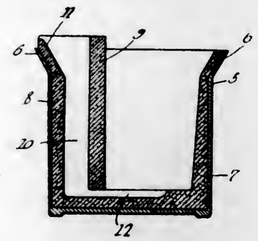
1,344,687. TILTABLE REFLECTOR FOR HEAD-LAMPS. LOUIS G. GOETZ and TOD EDEBURN, Cleveland, Ohio, assignors to The Adams-Bagnall Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 30, 1919. Serial No. 327,376. 15 Claims. (Cl. 240—41.)



1. The combination of a lamp casing having a pair of opposed pivots, a tiltable reflector in said casing, and means for shiftably supporting said reflector in its casing and comprising spring supporting means extending along a pair of sides of and secured to said reflector and having the forwardly projecting ends thereof mounted upon said pivots.

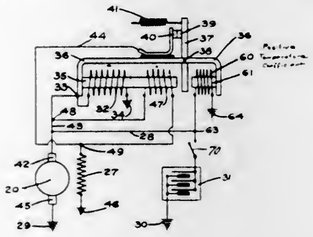
1,344,688. POURING VESSEL. ROBERT NOAH GRINER, Kokomo, Ind. Filed Dec. 27, 1919. Serial No. 347,706. 2 Claims. (Cl. 22—83.)

1. A metal founder's ladle including a metallic body portion, a lining of refractory material positioned within the body portion, said lining having an enlargement forming a part thereof, a relatively straight wall forming a part of the enlargement, said relatively straight wall dividing the interior of the ladle into a retaining compartment and a pouring compartment, said lining having a channel-way formed in the bottom thereof, said channel-



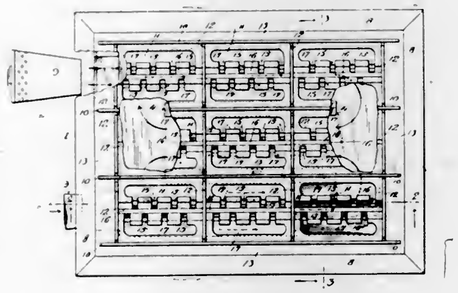
way being in communication with the pouring chamber, and said straight wall of the enlargement terminating in the same plane as the upper surface of the bottom.

1,344,689. ELECTRIC REGULATOR. NELSON ROBERT HAAS, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed May 23, 1916. Serial No. 99,443. 18 Claims. (Cl. 171—314.)



1. In an electrical system, the combination with a generator; of a regulator including an armature for controlling electric circuits, an electro-magnet for moving the armature, means for restoring said armature to normal position, and means independent of the restoring means operating according to temperature changes therein for opposing said magnet and assisting said restoring means.

1,344,690. PREHEATING-FURNACE FOR WELDING CASTINGS. ARTHUR E. HAUCK, New York, N. Y. Filed Jan. 8, 1920. Serial No. 350,148. 5 Claims. (Cl. 263—40.)

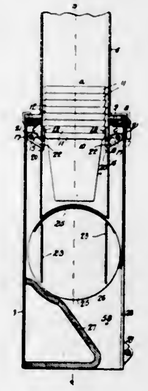


1. A furnace provided with flame chambers, top fire bricks with perforations over said chambers and division plates adapted to receive and support a casting surrounding said top fire bricks.

1,344,691. METHOD OF REFINING RAW WOOD-PULP LIQUOR. PAUL HEIN, Essen-Rüttenscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 24, 1916. Serial No. 127,448. Renewed Dec. 9, 1919. Serial No. 343,643. 3 Claims. (Cl. 252.)

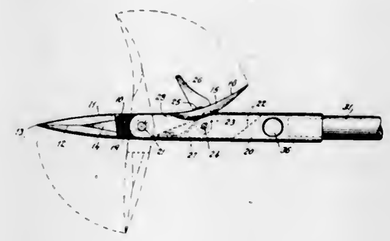
2. The method of refining raw wood-pulp liquor which consists in adding thereto and stirring together therewith wood ashes.

1,344,692. COIN-CONTROLLED DEVICE FOR DISPENSING CUPS. HERBERT M. HILL, New York, N. Y., assignor to Paper Utilities Corporation, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,234. Renewed May 3, 1920. Serial No. 378,655. 7 Claims. (Cl. 211—8.)



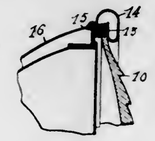
1. In a paper cup dispenser, the combination of a hollow sectional stack support embracing the upper portion of the lowermost cup of the stack and smaller in diameter than the upper end portion of the said cup, and a plurality of oscillatory shafts provided with means which when the said shafts turn in one direction are adapted to pass between adjacent sections of the support and engage the lowermost cup and lift the same from engagement with the support and to control the said cup and to lower it gradually on to and then by the said support when the shafts turn in the opposite direction, and means for receiving and dispensing said cup.

1,344,693. HARPOON. FRANK GILBERT HINSDALE, New York, N. Y. Filed Jan. 4, 1919. Serial No. 269,574. 8 Claims. (Cl. 43—6.)



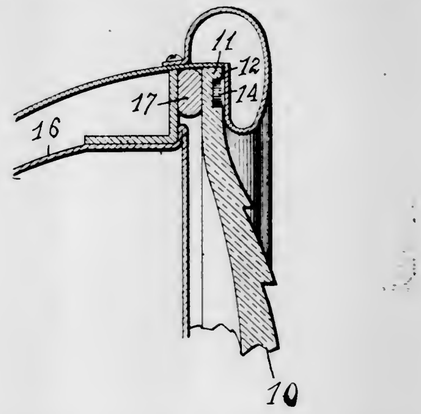
1. A harpoon comprising a member having a socket at one end and a recess, a pike having an end detachably fitted into said socket, a toggle-iron pivotally mounted at the other end of said member, a trigger-latch whereby said toggle-iron is locked against pivotal movement said trigger-latch being released by contact with the fish and being movable to an inoperative position into said recess, and a spring whereby said toggle-iron is swung on its pivot after said trigger-latch is released.

1,344,694. LENS-HOLDER FOR HEADLIGHTS. ELVERTON I. HOWARD, Westfield, N. Y.; Elsie R. Howard executrix of said Elverton I. Howard, deceased; Alexander Thompson executor of said Elsie R. Howard, deceased; said Alexander Thompson, executor, assignor to Primolite Company, Indianapolis, Ind. Filed July 25, 1919. Serial No. 313,254. 2 Claims. Cl. 240—41.)



1. In combination with a vehicle or like lamp, a lens therefor covering the front of the lamp and having a plurality of dove-tail shaped openings in the edge thereof, and resilient dove-tail shaped blocks fitted in and filling said openings and of a thickness to extend outwardly beyond the front and rear faces of the lens and beyond the peripheral edge of the lens when under compression.

1,344,695. LENS-HOLDER FOR HEADLIGHTS. ELVERTON I. HOWARD, Westfield, N. Y.; Elsie R. Howard executrix of said Elverton I. Howard, deceased; Alexander Thompson executor of said Elsie R. Howard, deceased; said Alexander Thompson, executor, assignor to Primolite Company, Indianapolis, Ind. Filed Sept. 18, 1919. Serial No. 324,266. 3 Claims. (Cl. 240—41.)

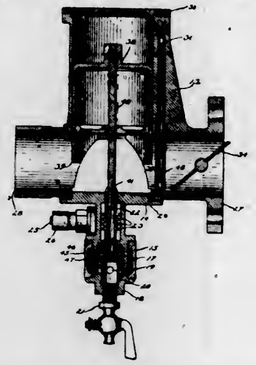


1. A headlight comprising a reflector, a lens for the front of said reflector, a metal rim to hold said lens around the outer edge portion thereof, said outer edge portion having cavities therein, and resilient rubber blocks attached in said cavities to frictionally hold said lens from turning when under pressure of said rim.

1,344,696. CARBURETER. EMIL HUBER, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed May 15, 1916. Serial No. 97,552 17 Claims. (Cl. 261—49.)

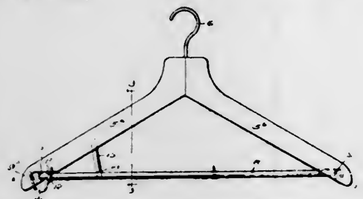
3. A carbureter having a casing formed with an air passage through the same, and an air valve movable trans-

versely of said air passage and having two portions which intercept the air passage at a distance from each other,



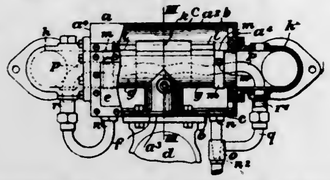
the said air passage being triangular in cross section between the said two portions of the valve.

1,344,697. GARMENT-HANGER. JOSEPH JACOBS, Lake Charles, La., and ALBERT JACOBS, New York, N. Y. Filed Nov. 7, 1919. Serial No. 336,279. 2 Claims. (Cl. 211—13.)



1. A garment hanger comprising a body portion made of two pieces which lie at an obtuse angle with relation to each other, a trousers supporting rod loosely pivoted at one of its ends to one of said members, a detent carried by the other of said members for engaging the free end of said rod and a pin depending from the last named member and projecting into the path of movement of said rod.

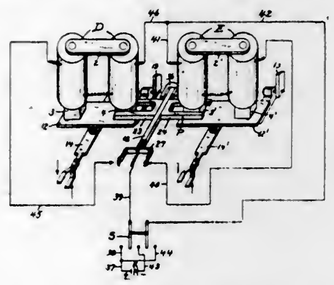
1,344,698. CARBURETER AND VAPORIZER. HERBERT KNIGHT, Brockley, England, assignor to Malcolm King, St. John's Wood, Middlesex, England. Filed May 1, 1918. Serial No. 231,873. 6 Claims. (Cl. 123—122.)



1. A vaporizer for internal combustion engines comprising a chamber adapted to surround the induction pipe, admission and outlet connections on said chamber for exhaust gases of combustion, a baffle device opposite said exhaust admission and spaced from the induction pipe, heat exchange devices on said induction pipe, a duct mounted within the induction pipe and having exhaust inlet and outlet connections, and circulating means adapted for moving exhaust gases through the said duct.

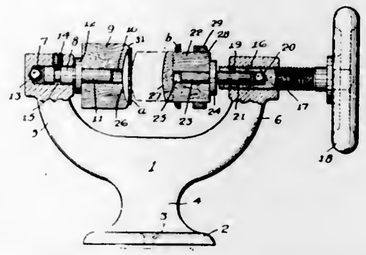
1,344,699. RELAY. RICHARD C. LEAKE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Apr. 25, 1918. Serial No. 230,675. 12 Claims. (Cl. 175—375.)

1. In a polarized relay, the combination with two pairs of coils, each having a neutral armature, of means adapted to respond to the polarity of current flowing in said coils, for selectively determining which neutral armature will



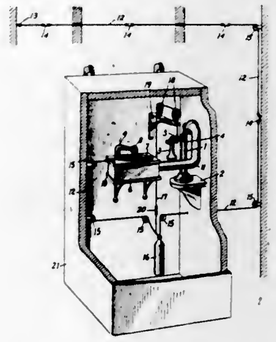
be attracted, and circuit controlling means operated by said neutral armatures.

1,344,700. DEVICE FOR INSERTING CRYSTALS IN BEZELS AND RINGS. EVARTS G. LOOMIS, Newark, N. J. Filed Nov. 25, 1918. Serial No. 264,036. 8 Claims. (Cl. 29—84.)



8. A device for assembling bezels on grooved rings with tensional crystals, comprising a stand, a female member for receiving the crystal, a swivel mounting for supporting the female member on the stand, a male member for supporting the bezel or ring, a swivel mounting for said member, and a member having screw-threaded connection with the stand for advancing and retracting the male member into and out of engagement with the crystal.

1,344,701. AUTOMATIC FIRE-ALARM. WILLIAM J. LUSE, New York, N. Y. Filed Nov. 20, 1918. Serial No. 263,293. 8 Claims. (Cl. 179—5.)



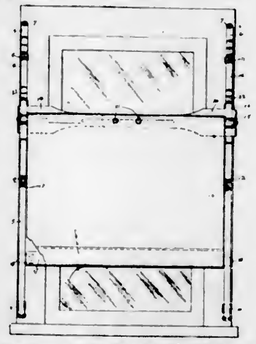
7. In an automatic fire alarm, means controlled by a predetermined rise in temperature for transmitting an alarm, and means controlled by a still higher rise in temperature for restoring the alarm to inoperative condition.

1,344,702. MANDREL FOR MAKING INNER TUBES FOR PNEUMATIC TIRES. FLORENCE RICHARD MCCARTY, Erie, Pa. Filed Mar. 19, 1919. Serial No. 283,544. 3 Claims. (Cl. 18—45.)



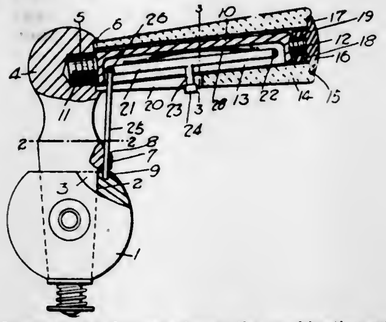
3. A mandrel consisting of an aluminum tube interiorly reinforced by a tube of harder material.

1,344,703. WINDOW-SHADE FIXTURE. HENRY E. MANNING, New Haven, Conn. Filed Jan. 21, 1920. Serial No. 353,067. 2 Claims. (Cl. 156—27.)



2. A combination with two guide-ways secured to and offset from a window-casing, a slide mounted upon each of the said guide-ways and including clips at opposite ends engaging with said guide-ways, a bracket formed with a clip engaging with each of the said slides, said brackets connected together, and the said slides formed at their lower ends with finger-pieces.

1,344,704. GAS-TAP-LOCKING DEVICE. JOSEPH MARTIN and GEOFFREY MARTIN, Toronto, Ontario, Canada. Filed Mar. 22, 1920. Serial No. 367,718. 2 Claims. (Cl. 251—165.)

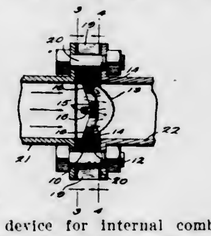


1. In a gas tap for gas stoves, the combination with a valve body and valve plug, of a handle comprising a core screwed at one end into the upper end of the valve plug and having a longitudinal recess formed therein, a cover surrounding the core and having a longitudinal slot, and means bearing against the outer end of the cover and engaging the core for holding the cover between such means and the valve plug, a lever pivotally mounted at one end within the recess of the core, a bow spring inserted between the lever and the base of the recess, a depending stem extending from the lever through the slot of the cover, a plunger pin pivotally carried by the opposite end of the lever adapted to engage the valve body and guiding means carried by the valve plug through which the plunger extends.

1,344,705. PROCESS FOR TREATING MINERALS CONTAINING POTASSIUM. ANTON MESSERSCHMITT, Stolberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 11, 1914. Serial No. 876,723. 4 Claims. (Cl. 23—22.)

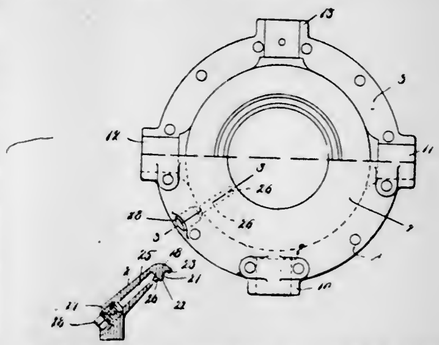
1. A process for treating silicate containing potassium which comprises heating the finely ground silicate and sodium nitrate in the presence of water at a high temperature under pressure.

1,344,706. MIXING DEVICE FOR INTERNAL-COMBUSTION ENGINES. LORIN OTTO MILLER, Dunkirk, Ind., assignor of two-thirds to Mark M. Moran and James R. Fleming, Portland, Ind. Filed Feb. 14, 1920. Serial No. 358,789. 5 Claims. (Cl. 48—180.)



1. A mixing device for internal combustion engines, comprising a plate adapted for insertion intermediate the carbureter and intake manifold of the engine, said plate being provided with a central aperture, a screen arranged within said aperture and convexed in the direction of flow, cross arms extending into said aperture intermediate said carbureter and said screen, said cross arms being spaced from said screen and provided with apertures extending in the direction of flow of the gases.

1,344,707. UNIVERSAL JOINT. ALFRED B. MORSE, South Easton, Mass. Filed June 5, 1919. Serial No. 301,935. 1 Claim. (Cl. 64—102.)

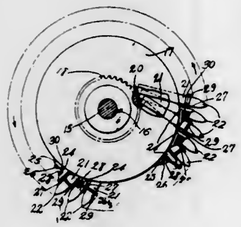


A universal joint comprising two oppositely arranged shaft bearing heads provided with semi-spherical outer bearing surfaces, a two-part closing semi-spherical casing securing the heads together, bearing surfaces on the interior of said casing coöperating with said heads to maintain the same in position and act as bearings therefor, said heads and casing defining a closed chamber for lubricant, a tube extending through said casing and into the chamber to a distance beyond the ordinary level of the lubricant therein, a passage through one of said heads, a shaft mounted for sliding movement therein, a perforated closure for the interior end of said passage permitting a limited flow of lubricant to the shaft through the passage.

1,344,708. MOTOR-PLOW. RUSSELL MOSER and LESTER L. MOSER, Homestead, Fla. Filed Aug. 30, 1919. Serial No. 320,894. 1 Claim. (Cl. 97—63.)

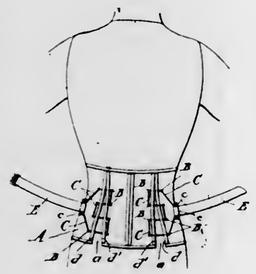
In a rotary plow, a frame, a drum adjustably supported by the frame, said drum having a plurality of openings

formed therein, an angle iron positioned adjacent each of the openings, an eye bolt having a threaded shank con-



nected with the respective angle irons, a spike positioned in each of the openings, and adapted to be embraced by the eye bolts.

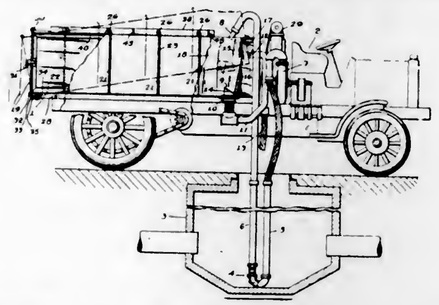
1,344,709. BELT-OPERATED LACING. CHARLES MUNTER, New York, N. Y. Filed Dec. 5, 1917. Serial No. 205,622. 2 Claims. (Cl. 2—188.)



1. An article of wearing apparel provided with an opening, eyelets adjacent the edges of said opening, a belt section positioned substantially intermediate the upper and lower ends of the opening and provided at one end with a loop, a lace cooperating with the eyelets and so threaded through said eyelets that the lace crosses the opening a plurality of times, and being so disposed that the successive reaches between successive eyelets are at substantially right angles to one another, with the successive reaches of the lace passing, alternately, across the opening and longitudinally along the opposite edges thereof, and the lace then extending through the said loop in the specified belt section, whereupon the ends of the lace are united to form a substantially continuous, endless lace adapted, when the ends thereof are disengaged from one another, to be readily removed from the eyelets and belt section to permit of the ready substitution of a new lace.

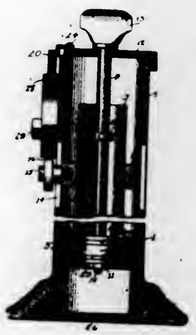
1,344,710. SETTLING-BED. GEORGE WASHINGTON OTTERSON, Seattle, Wash. Continuation of application Serial No. 240,441, filed June 17, 1918. Patent No. 1,295,056, dated Feb. 18, 1919. This application filed Jan. 28, 1919. Serial No. 273,543. 8 Claims. (Cl. 210—52.)

1. In a portable settling-bed, the combination with a vehicle, of a tight tank tiltably mounted thereon for rear dumping, transverse baffles with openings for passage of water swingingly supported in the tank and forming a plurality of settling chambers, means for delivering a mixed stream of liquid and solids into one of the com-



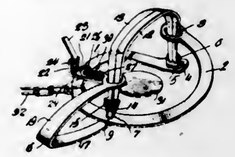
partments, and a water outlet communicating with a remote compartment.

1,344,711. HYDRAULIC JACK. ARTHUR PAOLI, Hancock, Mich. Filed May 15, 1919. Serial No. 297,221. 9 Claims. (Cl. 138—9.)



8. A hydraulic jack comprising a cylinder, a piston movable therein and having a bore opening at the inner end of the cylinder, a second piston movable in the bore, and means for moving the first named piston into the cylinder to force the second piston outward.

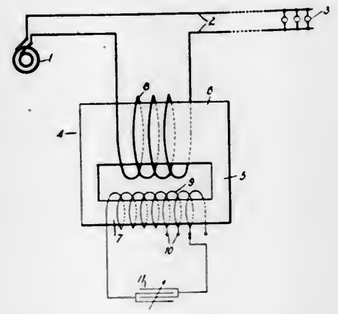
1,344,712. ANIMAL-TRAP. JULES PAUDOIS, Opheim, Mont. Filed Aug. 21, 1919. Serial No. 318,940. 1 Claim. (Cl. 43—88.)



An animal trap comprising a base formed of a single strip of material bent to form an upwardly extending spring arm having an opening adjacent the end, the end of the spring arm overlying the opposite end of the strip and vertically spaced therefrom, a plate secured to the base beneath the opening in the spring arm, a V-shape plate secured to the opposite side of the base, a shank formed on the V-shape plate and extending through the base, also said plates provided with apertures, jaws having lugs at their extremities so as to be pivotally connected in the apertures of said plates, one end of the jaws passing

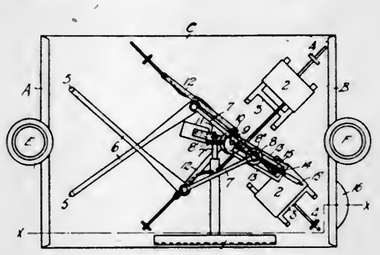
through the opening in the spring arm, a second spring secured te the shank of the second mentioned plate and provided with an opening through which the opposite ends of the jaws pass, and a trigger for engaging one of the jaws.

1,344,713. REACTANCE-COIL. JOHN F. PETERS, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1915. Serial No. 64,723. 10 Claims. (Cl. 171—242.)



1. A current-limiting device comprising a magnetizable core member having a leg of relatively large cross-sectional area and another leg of relatively small cross-sectional area, a primary winding embracing said first leg, and a secondary winding embracing said second leg and connected in closed circuit, and an adjustable reactance element connected in series with the secondary winding whereby the power-factor of the circuit comprising the primary winding may be adjusted.

1,344,714. GAS-METER MECHANISM. SYLVESTER J. POCOCK, Hamilton, Ontario, Canada. Filed June 9, 1919. Serial No. 302,903. 3 Claims. (Cl. 73—1.)



1. In a device of the class described, the combination with the crank shaft of a meter, of a tangent bar rigid with the crank shaft and comprised of a pair of spaced parallel sides and an end cross member, a tangent wrist body having opposed grooves into which fit said sides, said body being slidable between said sides, and means for altering and fixing the position of said body longitudinally of the tangent.

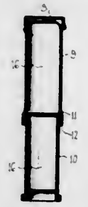
1,344,715. MAGAZINE-HAMMER. CLARENCE J. POPE, Chicago, Ill., assignor of one-half to Nellie Hanson, Batavia, Ill. Filed Dec. 29, 1919. Serial No. 348,072. 11 Claims. (Cl. 1—45.)

2. A magazine hammer comprising a magazine having a plurality of compartments therein; means for feeding tacks or nails from said compartments; a hammer head secured to said magazine; a driving element slidably mounted in said hammer head operable through its momentum upon the striking of a blow by said hammer head;



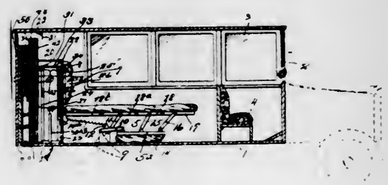
means for actuating said feeding means; and means for restoring said driving element to normal position upon the completion of the actuation of said feeding means, substantially as described.

1,344,716. TELESCOPIC CONTAINER. JAMES F. POWELL, Flint, Mich., assignor of one-fourth to James S. Hodgins, Flint, Mich. Filed Aug. 17, 1916. Serial No. 115,369. 1 Claim. (Cl. 206—41.)



A tobacco container adapted to be carried in the pocket, comprising a pair of sections of similar cross-sectional contour and differing in cross-sectional dimensions to permit telescoping relation of the sections, each section having an open end, the sections being assembled with the open ends overlapped to produce a compartment open to both sections, the sections having corresponding walls spaced apart a distance to receive abutments carried by the respective sections, the abutments of one section facially contacting the corresponding wall of the other section and having a width sufficient to provide an extended contact between the abutment and wall, said sections having complemental means to normally maintain said sections in fully expanded position with the abutments in juxtaposed relation, said means being disengageable by pressure applied at an end of the assembly, one of said sections having a permanently closed end with a configuration to limit the length telescoping movement when said means has been made ineffective.

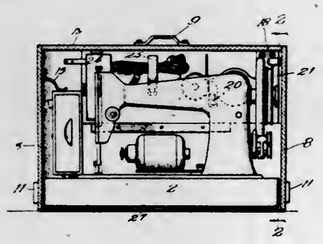
1,344,717. VEHICLE-BODY AND PORTABLE EXTENSION THEREFOR. HENRY PUFF, St. Cloud, Minn. Filed June 14, 1919. Serial No. 304,211. 5 Claims. (Cl. 296—25.)



1. In a device as set forth, the combination with a dominant body, of an extensible body at the rear of the dominant body, said extensible body comprising a plurality of collapsible floor sections foldable upon themselves and within the rear end of the dominant body,

said floor sections having a plurality of guides adapted to aline when the floor sections are extended, of an extensible cover having bows movably engaging the guides, when the floor sections are extended, and guides on the bottom of the dominant body in alinement with the first guides and adapted to receive the bows, when the cover is collapsed within the rear of the dominant body.

1,344,718. PORTABLE SEWING-MACHINE HEAD. GEORGE H. RIDDELL, Buffalo, N. Y., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,618. 9 Claims. (Cl. 45—120.)

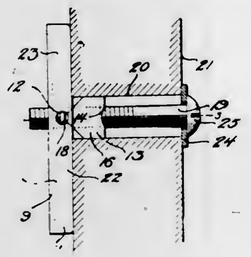


1. The combination with a portable sewing machine comprising a head and a base, of a case adapted to fit over said head and base, an extension for one end of said base, and means for supporting said extension either fixed rigidly in the plane of the base or in a position overlying the base and housed within said case.

1,344,719. PROCESS OF RETTING FIBROUS SUBSTANCES. ERICK LUDVIG RINMAN, Djursholm, Sweden. Filed Oct. 2, 1918. Serial No. 256,612. 1 Claim. (Cl. 92—15.)

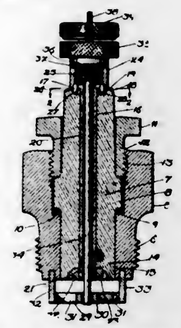
The process of retting fibrous substances which consists in treating the fibrous substances with a waste lye from a previous treatment of vegetable substance with alkali hydrate to which waste lye free alkali hydrate has been added, and carrying out the treatment at a temperature of at least 90– C. and with a treating liquid so concentrated that its specific gravity is at least 1.074 but the percentage of caustic alkali of which does not exceed 3 per cent. alkali hydrate.

1,344,720. ANCHOR-BOLT. EDWIN C. ROYER and BERNARD J. BOYLE, Philadelphia, Pa. Filed Aug. 19, 1919. Serial No. 318,589. 2 Claims. (Cl. 85—3.)



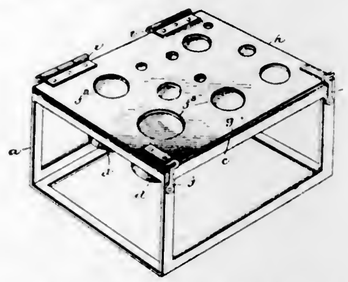
2. An anchor bolt including a channel having holes in the opposite side thereof; a yoke having lips thereon extending within said holes in the channel, said yoke having a screw threaded hole in the face spanning the sides thereof; and a bolt fitting said screw threaded hole; substantially as described.

1,344,721. SPARK-PLUG. ABE SAMSON, Cedarhurst, N. Y. Filed Feb. 11, 1919. Serial No. 276,266. 4 Claims. (Cl. 123—169.)



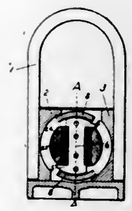
1. A spark plug including an insulator having a hole; a tube within said hole, said tube having a head at one end; an electrode rod extending through said tube; and means formed jointly between said head and the outer end of the insulator for preventing relative rotatable movement between the insulator and the tube whereby the electrode rod can be screwed in said tube without the tube rotating relatively to the insulator; substantially as described.

1,344,722. DIAPHRAGM BLAST-METER. EDWARD H. SCHULZ, U. S. Army. Filed Oct. 25, 1918, Serial No. 259,713. Renewed Apr. 9, 1920. Serial No. 372,600½. 4 Claims. (Cl. 73—110.) (Filed under the act of March 3, 1883, 22 Stat. L., 625.)



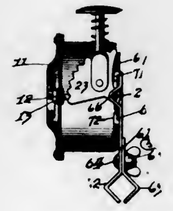
1. A blast meter providing a surface having openings of different sizes, said surface adapted to receive a diaphragm, and means for clamping the diaphragm in place.

1,344,723. MAGNETO. WOLFGANG ERNEST SCHWARZMANN, Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 12, 1918. Serial No. 257,841. 16 Claims. (Cl. 123—149.)



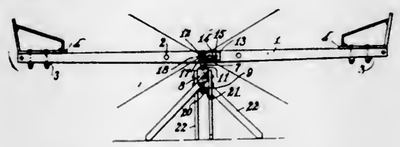
1. In a magneto for producing ignition currents at irregular intervals, a field magnet having poles, an armature having poles, a sleeve rotatable in the air gap between the field and armature poles and having magnetic members magnetically separated from each other, the poles and the sleeve members being so constructed and arranged that the trailing tips of the sleeve leave the trailing tips of the poles at irregular intervals, a generating winding, and means for altering the circuit of the generating winding at substantially said intervals.

1,344,724. MECHANICALLY-ACTUATED HORN FOR BICYCLES, BOATS, &c. GEORGE J. SEISS, Toledo, Ohio. Filed Apr. 15, 1918. Serial No. 228,533. 4 Claims. (Cl. 116—144.)



1. In a signal, a hollow body, a diaphragm therein, a wear pin in the diaphragm, a toothed segment, a pivot at the angle of the segment, means for mounting the pivot in the body to hold the teeth of the segment in engagement with the wear pin as said segment oscillates, an operating bar and means for pivotally connecting the said bar to said segment.

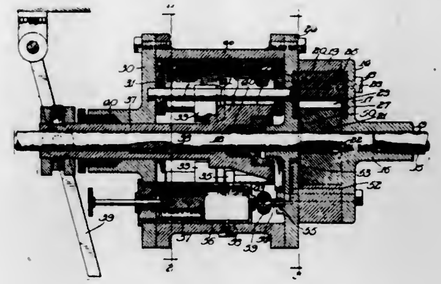
1,344,725. PLAYGROUND APPARATUS. EVERETT L. SENSEMAN and ALFRED P. ZIEGLER, Shilo Springs, Ohio, assignors to Everett L. Senseman, Dayton, Ohio. Filed Nov. 7, 1919. Serial No. 336,338. 1 Claim. (Cl. 46—22.)



In a play-ground apparatus, elongated side frame members having openings in the central parts thereof in alinement, fulcrum plates secured within said openings with longitudinal openings therein and a plurality of pockets extending from said openings, a fulcrum rod extending into said longitudinal openings and engaging said pockets, a cross frame member having its ends extended upwardly and through which ends the said fulcrum rod passes, a head block, and a king bolt pivotally uniting said cross frame members to said block, substantially as specified.

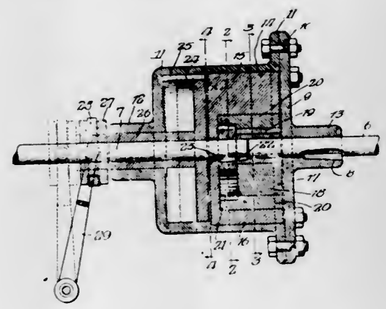
1,344,726. SPEED-CONTROLLING MECHANISM. LEVI M. SHAW, Glencoe, Ill., assignor to Harry C. Johnson, Glencoe, Ill. Filed June 5, 1918. Serial No. 238,290. 8 Claims. (Cl. 192—18.)

1. In a speed controlling mechanism, the combination of a drive shaft, a driven shaft, a chambered member connected to the driven shaft, a piston connected to the drive shaft and revolving eccentrically within the interior of the chambered member to provide a passage between the periphery of the piston and the inner wall of the chambered member, a transmission liquid within the chambered member and given a forward movement in said passage by the rotation of the piston, an abutment having an arcuate-shaped face to conform with the curvature of the inner surface of said chambered member under certain conditions, rotatably mounted in the walls of the chambered member and adapted to have a portion thereof projected into and out of said passage to form a resistance to the flow of liquid through said passage, means for moving said



abutment whereby it recedes from the passage in accordance as the high part of the piston approaches the abutment and is projected into the passage in accordance as the high part of the piston recedes therefrom, and means for regulating the abutment moving means to vary the maximum projection of the abutment into the passage, substantially as described.

1,344,727. MECHANICAL CHANGE-SPEED APPLIANCE. LEVI M. SHAW, Glencoe, Ill., assignor to Harry C. Johnson, Glencoe, Ill. Filed June 26, 1918. Serial No. 241,930. 11 Claims. (Cl. 74—34.)

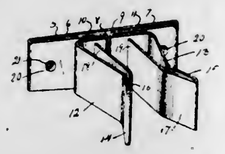


1. In a change speed device, the combination of a drive shaft, a driven shaft, outer and inner eccentric members rotated by the drive shaft, said outer member surrounding the inner member and spaced apart therefrom, an eccentric ring interposed between said members and having no positive connection therewith and normally free to independently turn between said members, a driving connection between the ring and driven shaft, and means for exerting variable pressure on one of said eccentric members to transmit a corresponding retarding pressure on to said ring and vary the degree of independent turning movement of said ring, thereby transmitting a corresponding speed from the drive to the driven shaft, substantially as described.

1,344,728. ARTICLE-HOLDER. GREENE SHIVELY, Millmont, Pa. Filed Jan. 24, 1920. Serial No. 353,696. 4 Claims. (Cl. 24—249.)

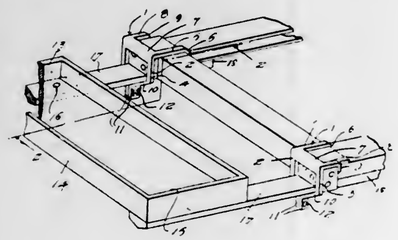
1. A device of the character described consisting of a strip having its end portions extended back upon the strip to provide supporting arms, each of said arms being ex-

tended back upon itself in the opposite direction to the first mentioned extended portion of the arm, each of the



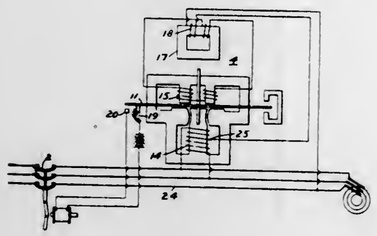
remaining end portions of said strip being extended in angular relation to the said supporting arms and then back upon itself toward said supporting arms.

1,344,729. ARTICLE-CARRIER SUPPORT FOR AUTOMOBILES. LARS SKILBRED, Dorchester, Wis. Filed Aug. 6, 1919. Serial No. 315,761. 6 Claims. (Cl. 224—29.)



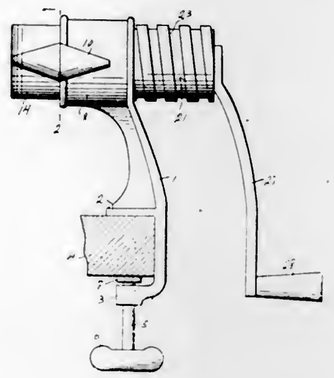
1. The combination with a hanger being angular and having upper horizontal arms provided with depending lugs to engage the forward edge of the rear beam of the chassis, said hanger having depending parts detachably connected in opposed relations adjacent the rear face of said rear beam, of a carrier having an arm engaging between said depending parts and under the frame, thereby supporting the carrier.

1,344,730. RELAY. BENJAMIN H. SMITH, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 29, 1917. Serial No. 145,322. 8 Claims. (Cl. 175—294.)



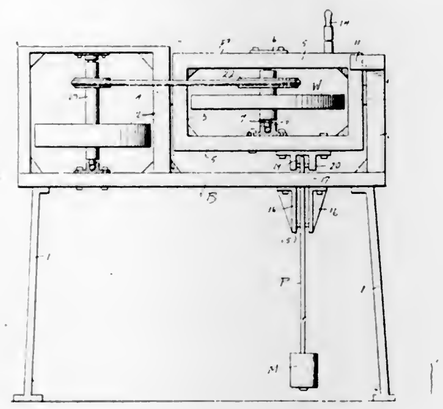
1. In a reverse-phase relay for a three-phase electric circuit, the combination with a single magnetizable core member and a rotatable armature therefor, of two windings for the magnetizable member, and a transformer, said windings being so connected to the transformer and the electric circuit that they are supplied with currents substantially ninety degrees out of phase with each other and in accordance with the potential of the respective phases of the circuit.

1,344,731. NUTCRACKER. CLYDE SMITH, Chicago, Ill. Filed Oct. 4, 1919. Serial No. 328,361. 1 Claim. (Cl. 146—3.)



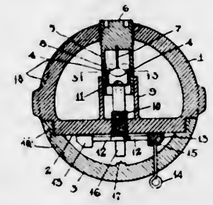
In a nut cracker, the combination with a relatively fixed member and a relatively reciprocable movable member, the latter engaging through the former, said members respectively having nut cracking jaws, the adjacent faces of which having opposed nut engaging depressions, the fixed member having guide openings, parallel guide projections carried by the other member and engaging through said opening to guide the reciprocable movable member in a inement with the fixed member, of a rotating sleeve extending through the fixed member and operatively connecting the walls of the fixed and movable members, whereby upon moving the sleeve in one direction or the other, the movable member may reciprocate toward and from the fixed member, and a crank detachably engaging in fixed relation with said sleeve for rotating the same.

1,344,732. MECHANICAL MOVEMENT. DANIEL H. SMITH, Shirley, Ark., assignor of one-fourth to Dallas T. Little, Shirley, Ark. Filed July 22, 1919. Serial No. 312,644. 9 Claims. (Cl. 74—14.)



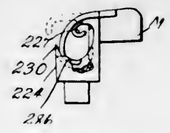
1. A device of the character described comprising a frame supported for oscillation, and a wheel rotatably supported by the frame and having a peripheral portion weighted, the axis of rotation of the wheel being perpendicular to the axis of oscillation of the frame.

1,344,733. GRENADE. KENT HALE SMITH, Cleveland, Ohio. Filed Dec. 3, 1917. Serial No. 205,028. 7 Claims. (Cl. 102—29.)



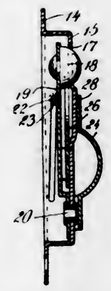
3. In a device of the character described, the combination of a hollow body adapted to contain a suitable explosive; detonating means including a vibratory pin; a guard normally covering such pin; and a screw connected to withdraw said guard, said screw being weighted so as to resist turning when said body is rotated about the axis of said screw.

1,344,734. SHUTTLE. ISAAC SNOW, Lawrence, Mass. Filed Dec. 26, 1919. Serial No. 347,579. 9 Claims. (Cl. 139—46.)



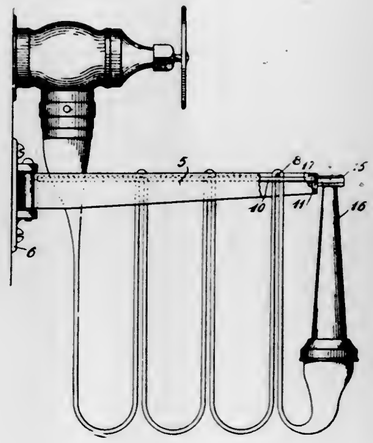
1. The combination in a shuttle having an eye, a bobbin chamber, and a threading chamber in continuation thereof which connects with the eye, of a thread directing guide plate so fixed to the top side of the shuttle as to extend into the threading chamber, such guide plate having a nose which extends forward of the eye and having a bottom rim which slopes down and back from the nose and down and forward from the back through the threading chamber and at the side slopes down and out, and a thread trapping rim of hooked form which extends under the sloping forward part of the thread directing guide plate, with a thread retaining hook guide which extends from and under the thread directing guide plate back of the shuttle eye and of the trapping rim, and a locking guide which extends into the threading chamber back of and overlapping said hook guide, together with a friction which extends in front of and overlapping said hook guide.

1,344,735. HAND-LAMP SWITCH. FREDERICK G. SPIERS, New Britain, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 11, 1919. Serial No. 337,350. 4 Claims. (Cl. 200—60.)



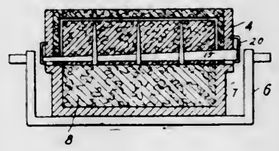
3. A contact device for battery hand lamps, comprising a contact arm having a thumb piece by which the arm may be flexed to flash the lamp, means for holding said arm in flexed position when a permanent light is desired, and locking means movable to position under the free end of said arm when lighting is to be avoided.

1,344,736. FIRE-HOSE SUPPORT. JOHN H. STILLWAGON, Richmond Hill, N. Y. Filed July 13, 1915. Serial No. 39,542. 6 Claims. (Cl. 248—28.5.)



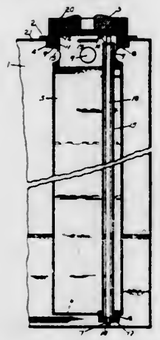
6. In a device of the kind described, a frame, a hose supporting finger pivoted to swing around a horizontal axis at one side of the frame, a tilting platform pivoted to move around a horizontal axis at the other side of the frame and adapted to support the free end of said hose supporting finger and a nozzle support provided with means for engaging the platform to hold the platform in finger supporting position.

1,344,737. METHOD OF MAKING MOLDS WITH GREENSAND CORES. JOHN T. STONEY, Cleveland, Ohio. Filed Mar. 11, 1919. Serial No. 281,945. 3 Claims. (Cl. 22—198.)



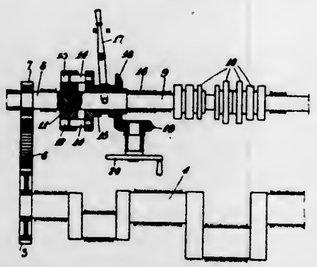
1. The method of making a mold which comprises preparing a drag portion of a mold, preparing a portion of a core of green sand without internal support, preparing a part of a green sand core with internal support, superimposing the part of the green sand core with internal support while still in its core box upon the green sand portion without support while the same is still in its core box, withdrawing the core box from the green sand core portion having internal support, superimposing the drag of a mold upon the said core portion having internal support, inverting the said drag of the mold and the core box containing the green sand portion without internal support, withdrawing the core box from the core portion of green sand without internal support and superimposing the cope of the mold upon the drag of the mold.

1,344,738. FUEL-RESERVE TANK. JOHN J. SULLIVAN, Lowell, Mass. Filed Oct. 1, 1919. Serial No. 327,662. 4 Claims. (Cl. 158—46.5.)



1. The combination with a main tank of a reserve-tank arranged therein and having overflow openings near the top of said main tank, of a manually-operated gate adapted to close said overflow openings to prevent spilling of the contents of said reserve-tank into said main tank.

1,344,739. STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. CARL GUSTAF THURE THELIN, Stockholm, Sweden, assignor to Arthur Edwin Kristofer Spångberg, Stockholm, Sweden. Filed Dec. 2, 1918. Serial No. 264,979. 3 Claims. (Cl. 60—16.)

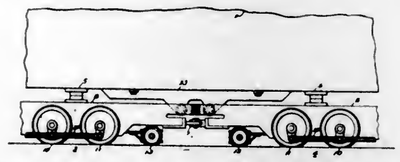


1. In a starting device for four-cycle internal combustion engines of the type started by means of compressed air or the like, the combination with a crank shaft, of a regulating shaft, a gearing interposed between said crank shaft and said regulating shaft, cams on said regulating shaft for operating the various valves of the engine, a clutch between said crank shaft and said regulating shaft said clutch enabling said shafts to be connected to one another in different angular positions, and a device connected with said regulating shaft for turning the same relatively to said crank shaft, said device coöperating with said clutch in such manner that it is connected to said regulating shaft when the clutch is disengaged but is disconnected from said shaft when the clutch is thrown in.

1,344,740.. LOCOMOTIVE CONSTRUCTION. RUSSELL G. THOMPSON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1917. Serial No. 146,422. 7 Claims. (Cl. 105—175.)

1. In a railway vehicle, the combination of two trucks, an artificial connection between said trucks, a vehicle body supported on said trucks and pivotally connected to each of them, and resilient means in advance of and behind said articulated connection and connected thereto tending to maintain said trucks longitudinally in alinement.

2. In a railway vehicle, the combination of two trucks comprising frames having an articulated connection between them, a body mounted on, and pivotally connected to, said trucks, arms extending forwardly and rearwardly from said articulated connection, and means between said arms and said truck frames tending to maintain said trucks in longitudinal alinement.

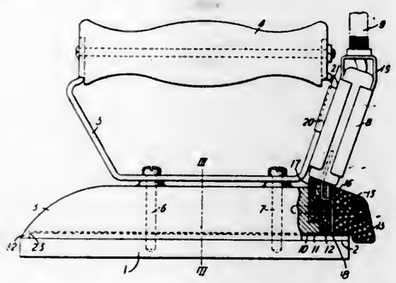


3. In a railway vehicle, the combination of two trucks comprising frames having an articulated connection between them, a body mounted on, and pivotally connected to, said trucks, arms extending forwardly and rearwardly from said articulated connection, and springs bearing against said frames and said arms and tending to maintain said trucks in longitudinal alinement.

4. In a locomotive, the combination of two trucks comprising frames having an articulated connection between them, a cab mounted on, and pivotally connected to, said frames, arms extending forwardly and rearwardly from said articulated connection, and springs between the ends of said arms and said truck frames tending to maintain said trucks in longitudinal alinement.

5. In an electric locomotive, the combination with a cab and a plurality of articulated trucks associated therewith, of a beam attached to the cab and disposed adjacent to said trucks, and resilient members for joining the trucks to said beam for exerting a force tending to maintain the trucks in alinement with the cab.

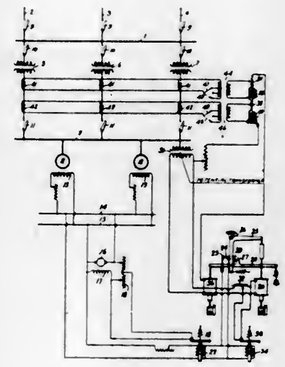
1,344,741. ELECTRIC SADIRON. FRANK THORNTON, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 3, 1914. Serial No. 864,718. 5 Claims. (Cl. 219—25.)



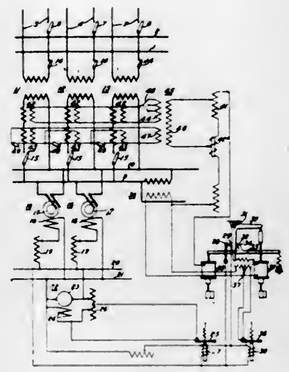
3. An electric sad iron comprising a base member, a body member composed of heat-storage material, a heating element disposed between, and electrically insulated from, said members in a manner to permit heat transfer between the heating element and the members, a coöperating rib and a depression being formed on the members for inclosing the heating element, a handle mounted on the body member and bolts passing through a portion of said handle and the body member into the base member for securing the parts of the iron together.

1,344,742. ELECTRICAL COMPENSATOR. ALLEN A. TIRRILL, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1916. Serial No. 113,890. 13 Claims. (Cl. 171—241.)

7. In an electrical system, the combination with a supply circuit, voltage transformer means, and a plurality of feeder circuits connected through the transformer means to the supply circuit, of means comprising a number of parallel-connected series transformers for automatically regulating the supply-circuit voltage in accordance with the condition of the feeder circuits connected to the supply circuit to maintain constant voltage conditions on the feeder circuits.



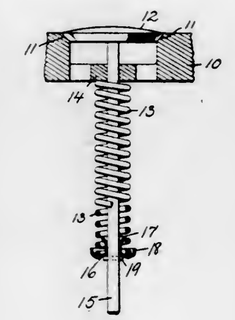
1,344,743. ELECTRICAL COMPENSATOR. ALLEN A. TIRRILL, Pittsburgh, Pa. Filed May 28, 1919. Serial No. 300,382. 8 Claims. (Cl. 171—119.)



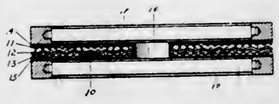
5. In an electrical system, the combination with a supply circuit, a plurality of voltage transformers, and a plurality of feeder circuits connected, through said transformers, to the supply circuit, of a plurality of series-connected current transformers associated with said voltage transformers, a plurality of parallel-connected current transformers associated with said feeder circuits, and means associated with said current transformers for regulating the supply-circuit voltage in accordance with the number of voltage transformers in circuit and in accordance with feeder-circuit conditions.

1,344,744. WASHER FOR THE STEMS OF VALVES. EDWARD L. WEIL, Kearney, N. J. Filed Dec. 10, 1919. Serial No. 343,895. 2 Claims. (Cl. 251—144.)

2. A washer for use with the stems of valves of internal combustion engines comprising an annular base portion having an outside flange and an inside flange, the inside flange flaring upwardly and at its smallest diameter being of substantially the same diameter as the stem, and at its upper end and largest diameter being but little less in diameter than the inside of the spring.



1,344,745. APPARATUS FOR EXPRESSING WAX FROM PETROLEUM-DISTILLATES. WILLET C. WELLS and FRANK E. WELLS, Columbus, Ohio. Original application filed Apr. 23, 1914, Serial No. 833,897. Divided and this application filed Apr. 12, 1919. Serial No. 289,531. 3 Claims. (Cl. 210—195.)



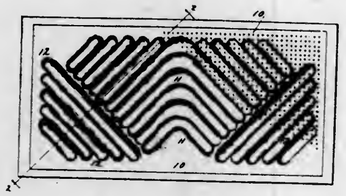
1. A filtering pad comprising a frame of coarse woven wire, a covering of finer woven wire imposed thereon, and a woolen fabric strainer disposed upon the face of said covering, which structure uniformly and adequately supports said strainer and affords unrestricted drainage therefor.

1,344,746. MATCH-BOX. WILLIAM G. WEMMELL, North Attleboro, Mass., assignor to Webster Company, North Attleboro, Mass., a Corporation of Rhode Island. Filed Feb. 6, 1919. Serial No. 275,344. 1 Claim. (Cl. 206—33.)



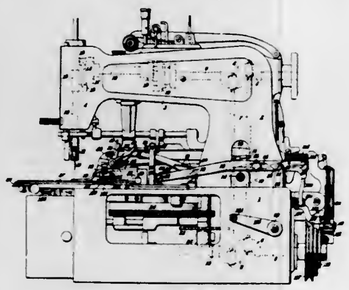
In a match box, the combination with a body and a cover of a frame-like presser member, pivoted upon the body and coöperating therewith; a presser spring engaged at one end with the body and at the other end engaging the presser member to continuously force it into and toward the body; an inwardly projecting hooked lip on the forward free end of the presser member, which engages the contained matches and concentrates pressure along the line of the lip.

1,344,747. SHAKING-SCREEN. CHARLES V. WRIGHT, Reynolds, Pa. Filed Nov. 7, 1919. Serial No. 336,353. 5 Claims. (Cl. 83—56.)



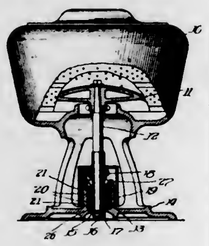
1. A shaker plate having a group of oppositely diverging riffles and a group of riffles that extend crosswise of each set of riffles of the first group.

1,344,748. BUTTONHOLE-SEWING MACHINE. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 26, 1915. Serial No. 41,884. 24 Claims. (Cl. 112—76.)



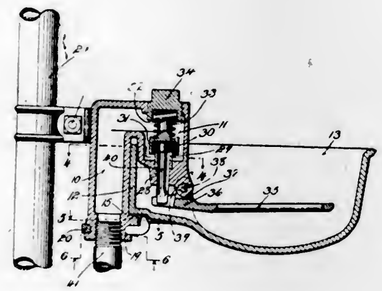
1. In a buttonhole sewing machine, in combination, stitch-forming and feeding mechanisms, a work-clamp, clamp-opening means, a slit cutting device, an actuator operative independently of the stitch-forming and feeding mechanisms, and independently acting means for establishing a one-to-one operative connection of the clamp-opening means and the cutting device respectively with said actuator.

1,344,749. CENTRIFUGAL-EXTRACTOR MECHANISM. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill., a Corporation of New York. Filed June 25, 1917. Serial No. 176,772. 6 Claims. (Cl. 64—48.)



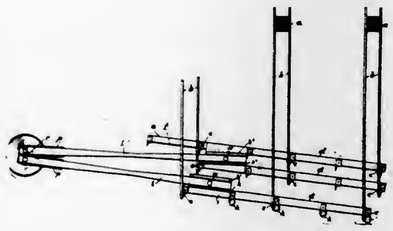
5. In a centrifugal extractor, the combination of a spindle, a bearing bushing therefor having a laterally extending flange, and bearing means on each side of said flange, one of said bearing means including a plurality of members and a retaining member for preventing engagement between said members and the bearing bushing.

1,344,750. DRINKING-CUP FOR STOCK. BERNARD A. BELLING, Beaver Dam, Wis., assignor of one-half to Clarence S. Knaup, Beaver Dam, Wis. Filed Jan. 6, 1919. Serial No. 269,843. 8 Claims. (Cl. 119—75.)



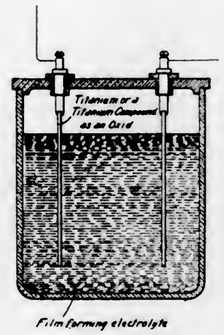
1. A device of the class described comprising a body member adapted for securement to a support and having a portion depending from its upper end and spaced therefrom, a drinking cup having its upper edge disposed between said body member and depending portion, coöperating supporting means on the cup and body member, said coöperating supporting means being disengageable by tilting said cup, whereby to disconnect the latter from the body member, and means shiftable into engagement with the under side of said cup adjacent the body member to prevent such tilting movement.

1,344,751. SHAKER-SCREEN. EARL E. BERRY, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed Apr. 2, 1919. Serial No. 286,949. 4 Claims. (Cl. 83—56.)



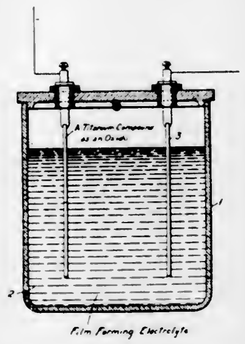
2. In a shaker screen, the combination with a plurality of screens, one above the other, adapted to be reciprocated as units in opposition one to another, an imperforate section lying in the same plane as the uppermost screen and forming an extension thereof, and counterweights secured at intervals to and extending transversely of the lowermost screen.

1,344,752. ELECTROLYTIC CELL. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1917. Serial No. 146,443. 9 Claims. (Cl. 175—318.)



1. A film-forming conductor for electrolytic cells composed of metallic titanium.

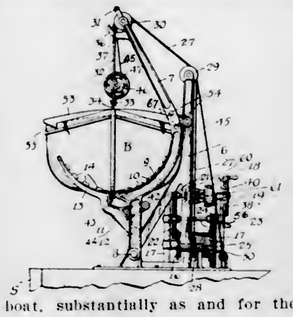
1,344,753. ELECTROLYTIC CELL. LEWIS WARRINGTON CHUBB, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Feb. 3, 1917, Serial No. 146,443. Divided and this application filed Mar. 7, 1919. Serial No. 281,143. 7 Claims. (Cl. 175—315.)



1. An electrode for electrolytic cells comprising a compound of titanium.

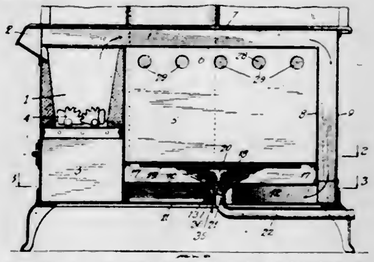
1,344,754. BOAT SUPPORTING AND LAUNCHING APPARATUS FOR SHIPS. ROBERT G. CLARK, Brooklyn, N. Y. Filed Sept. 13, 1917. Serial No. 191,103. 8 Claims. (Cl. 9—22.)

1. In boat supporting and launching apparatus for ships, davits pivotally supported to extend in upright position and adapted to be moved to position to extend laterally from the ship; a support to support the boat at the keel maintained in boat supporting position by the davits when in upright position and permitted to move the boat releasing position with the movement of the davits to extend laterally from the ship; means including a winch and cables to move the davits to upright position and to position to extend laterally from the ship to lower the boat; pawl and ratchet mechanism to lock the winch against movement and the davits in upright position releasable from the boat to permit movement of the winch and thereby the davits to boat launching position; and centrifugal governor controlled means to regulate the movement of the winch and thereby the lowering of the



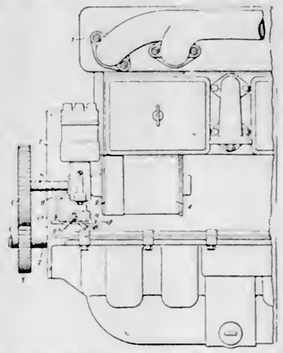
davits and boat, substantially as and for the purpose specified.

1,344,755. COAL AND GAS RANGE. EDWARD P. COLE, Chicago, Ill. Filed Mar. 27, 1917. Serial No. 157,610. 5 Claims. (Cl. 126—36.)



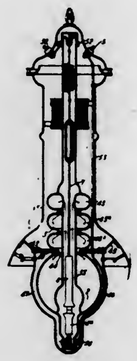
1. In a combined coal and gas range having an oven and a flue passage between the bottom of the oven and the outer bottom wall of the stove and a circular partition extending from said stove bottom to said oven bottom and forming a circular opening into oven and a single port burner arranged within said opening, means for distributing the heat of the burner comprising a flaring heat-conductive metal flame-spreader having its apex extending into said opening adjacent said burner and a laminated shield having highly conductive and relatively non-conductive layers in contact with said flame-spreader.

1,344,756. MOUNTING FOR OIL-PUMPS. FRANK CONRAD, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 20, 1916. Serial No. 98,809. 6 Claims. (Cl. 123—198.)



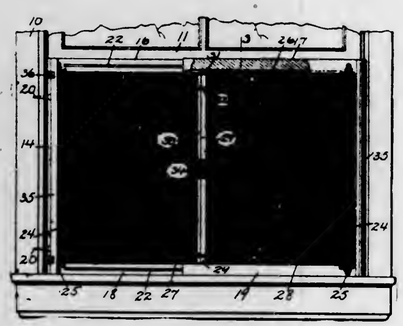
1. The combination with an engine, and a dynamo-electric machine driven by said engine, of an oil pump directly mounted on said dynamo-electric machine and operatively connected thereto.

1,344,757. ARC-LAMP. WILLIAM A. DARRAH, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 11, 1915. Serial No. 33,513. 24 Claims. (Cl. 176—1.)



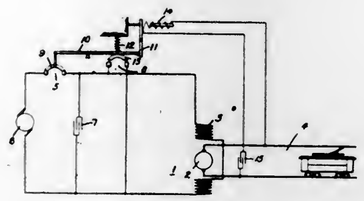
1. An electric arc lamp comprising an inclosure containing materials which vaporize at the pressure obtaining within said inclosure, the resulting vapors being capable of producing light only when in the path of an electric discharge, coöperating non-vaporizable electrodes disposed therein, and means for establishing an electric discharge between the electrodes, said vapors imparting the luminosity to the resulting arc and being capable of successive dissociation and recombination, whereby they may be introduced repeatedly to the arc without undergoing substantial deterioration of their light-giving properties.

1,344,758. WINDOW-SCREEN. JOHN DONNELLY, Newark, N. J. Filed Sept. 22, 1919. Serial No. 325,519. 3 Claims. (Cl. 156—38.)



3. A screen comprising a frame, which frame consists of two opposed U-shaped members arranged to slide in parallel planes, the top rail of one member having a covering strip to project so that its front edge is in line with the front edge of the upper rail of the other member, spring rollers on the sides of the frame, screen sections on the rollers, meeting rails on the screen sections and adapted to abut when the screen is closed, means for securing the meeting rails in position when they abut, the top and bottom rails of the members having grooves in which the ends of the meeting rails and the edges of the screen sections travel, and a covering strip mounted so as to swing on each side rail to act as fenders to said rollers.

1,344,759. ELECTRICAL PROTECTIVE DEVICE. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1918. Serial No. 226,633. 11 Claims. (Cl. 175—294.)



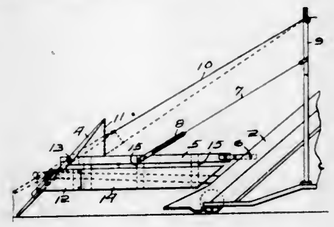
1. The combination with a generator and an exciter therefor, of a condenser connected across the field-magnet winding of the generator, and means for disconnecting the exciter from the field-magnet winding of the generator when a short circuit occurs on the generator and for short circuiting the condenser a predetermined interval of time after the exciter is disconnected.

1,344,760. NURSING-BOTTLE. WILLIAM E. GODDARD, Watertown, Wis. Filed Jan. 3, 1920. Serial No. 349,241. 2 Claims. (Cl. 150—0.5.)



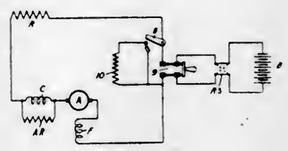
1. As a new article of manufacture a one piece collapsible nursing bottle formed from flexible material, a cylindrical body portion and a crowned top portion, the walls of the body portion being of less thickness than the walls of the crowned top portion, which walls are gradually increased in thickness toward the apex and a nipple extending from the crowned apex, the base walls of which are gradually reduced in thickness with relation to the crowned apex and the upper end of the nipple walls being gradually increased in thickness to resist collapse, and means for flattening and closing the lower end of the body portion.

1,344,761. STALK-RAISER. HERMAN J. HAHN, Napoleon, Ohio. Filed Dec. 4, 1919. Serial No. 342,424. 4 Claims. (Cl. 56—119.)



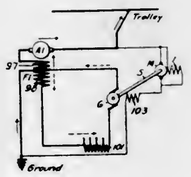
1. In a stalk raiser, an inclined pivoted member, means for moving the pivoted member along one side of the rows of stalks for engaging the blown stalks and raising them, and means for raising the lower end of the pivoted member to engage the stalks at different heights.

1,344,762. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Sept. 10, 1914. Serial No. 860,995. Divided and this application filed May 7, 1917. Serial No. 166,863. 2 Claims. (Cl. 172—276.)



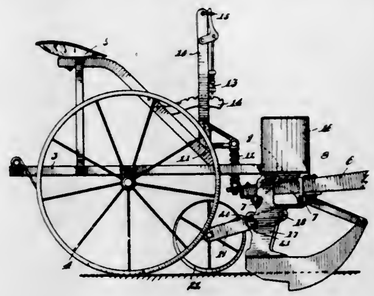
2. In a system of control, the combination with a dynamo-electric machine having an armature and a field winding, of a source of voltage inserted in series relation with said machine and having an electromotive force in the same direction as the machine generated voltage to initiate the building-up of such generated voltage.

1,344,763. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Oct. 24, 1916, Serial No. 127,381. Divided and this application filed Oct. 16, 1918. Serial No. 258,442. 7 Claims. (Cl. 172—179.)



1. In a system of regenerative control, the combination with a supply circuit and a dynamo-electric machine having an armature and a field winding, of a source of current normally substantially independent of supply-circuit voltage fluctuations for exciting said field winding, and means temporarily influenced by such fluctuations to affect the field-winding excitation.

1,344,764. SEED-PLANTER. GUSTAF FELIX JOHNSON, Chicago, Ill. Filed Dec. 28, 1917. Serial No. 209,234. 1 Claim. (Cl. 111—52.)



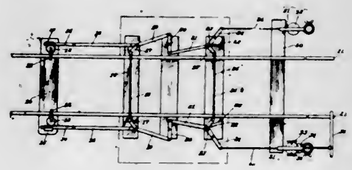
A seed planter comprising a frame; a traction wheel supporting said frame; a seed dropping mechanism; a furrow opener arranged for free vertical movement, and a wheel interposed between said traction wheel and said furrow opener adapted to contact with the ground and gage the depth of the cut by said furrow opener, said second mentioned wheel and said traction wheel being laterally spaced at opposite sides of the operative path of said furrow opener and having convex peripheries, substantially as described.

1,344,765. METHOD OF FORMING STREAM-LINE BODIES. WILLARD H. KEMPTON and BANJAMIN J. GUDGE, Wilkinsburg, and FRANK P. LAUFFER, Irwin, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed July 25, 1918, Serial No. 246,768. Divided and this application filed Sept. 25, 1919. Serial No. 326,222. 6 Claims. (Cl. 244—31.)



1. The method of forming a stream-line structure which comprises cutting impregnated fibrous sheet material to fit smoothly about a core substantially circular in cross section and tapering from end to end, superimposing a plurality of layers of the cut sheet material about the core and subjecting the body so assembled to heat and pressure in a mold.

1,344,766. AUTOMATIC RAILROAD-GATE. PETRO KILISZTOFF, Mundare, Alberta, Canada. Filed Oct. 15, 1919. Serial No. 330,726. 3 Claims. (Cl. 246—301.)



1. A railroad crossing of the character described comprising in combination with the bars constituting a double acting barrier, levers adapted to be operated by an operating arm on a locomotive, pinions operated by said levers, racks in mesh with the pinions, and a system of levers adapted to be operated by said racks for swinging said barrier bars out of the way of an oncoming train for closing

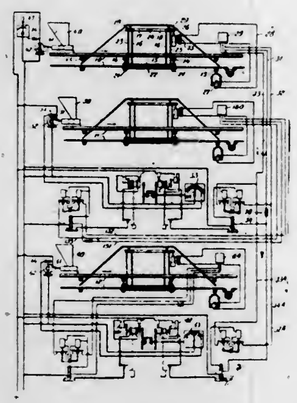
the crossing against the passage of vehicles and pedestrians, means for normally holding the bars in this position, and means for releasing said holding means by a departing train, for opening the crossing and closing the passage onto the track.

1,344,767. TRUSSED BUILDING CONSTRUCTION. JOHN O. MADISON, Brooklyn, N. Y. Filed Jan. 6, 1919. Serial No. 269,749. 5 Claims. (Cl. 72—70.)



1. In a trussed structure, adapted to withstand heavy loads or stresses, the combination of a layer of plastic material, a metallic member which is wholly open in character and at least partly embedded in said material throughout its area, said member extending throughout the lineal extent of said material, and a metal sheet parallel to said layer and to the general direction of said member and rigidly secured to said member, said sheet and member being so constructed as conjointly to form a truss.

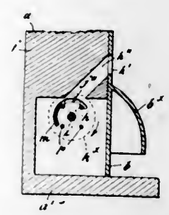
1,344,768. CONVEYER FEED CONTROL. EDWIN H. MESSITER, Brooklyn, N. Y., assignor to Electric Weighing Company, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1918. Serial No. 266,392. 15 Claims. (Cl. 193—24.)



1. A master conveyer, one or more other conveyers, automatic means for feeding material onto said other conveyer or conveyers at variable rates, a feeder control for each automatic feeder comprising a pair of driven gears and an immediate gear, connections between each intermediate gear and its feeder, means controlled by the master conveyer for rotating one of each pair of driven gears in one direction, and means controlled by each other conveyer for rotating the other driven gear of its respective feeder control, in the opposite direction.

1,344,769. COIN-CONTROLLED MECHANISM. WILLIAM MILLARD, New York, N. Y., assignor to Millard's Gum Vending Corporation, New York, N. Y., a Corporation of New York. Filed June 12, 1917. Serial No. 174,179. 3 Claims. (Cl. 194—85.)

1. In a coin controlling mechanism, a casing, an operating shaft extending through the casing, said casing having a curved slot partly surrounding the shaft, a wheel secured to one end of the operating shaft and having an arcuate flange extending inwardly through the curved slot to project into the casings, a tubular feed-shaft loosely mounted upon the operating shaft and provided with article feeding members, an extension secured to one end of the tubular feed-shaft and provided with spaced lugs which

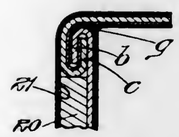


slidably contact with the casing, a coin chute carried by the casing to deliver a coin between the lugs, the coin held between the lugs being arranged in the path of travel of said flange, and a spring slidably engaging one feed member of the tubular feed shaft and serving to shift the same longitudinally toward the exposed end of the operating shaft.

1,344,770. METHOD OF OBTAINING BY-PRODUCTS, PARTICULARLY NITROGEN COMPOUNDS, FROM BLAST-FURNACES. WALTER OSTWALD, Grossbothen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 10, 1916, Serial No. 124,855. Renewed Nov. 25, 1919. Serial No. 340,461. 4 Claims. (Cl. 23—21.)

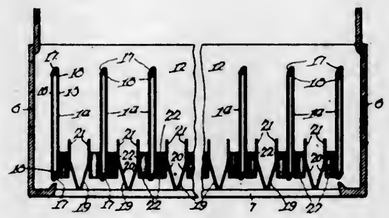
1. In the manufacture of metals from a mixture of ores, fuel and fluxes in blast furnaces, the herein described method of obtaining as a byproduct the nitrogen contained in the mixture, which consists in adding to the mixture a suitable quantity of a hydrated chlorid, whereby the water of hydration is liberated and converted into steam which acts on the mixture in the temperature zone in which ammonia, is formed, whereby all the nitrogen of the fuel is converted into ammonium chlorid, and in separating the ammonium chlorid from the blast furnace gases, substantially as described.

1,344,771. BATTERY-JAR. JAMES C. PEABODY, Boston, Mass. Filed Nov. 11, 1914. Serial No. 871,627. 11 Claims. (Cl. 206—2.)



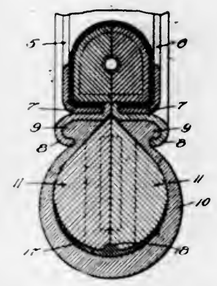
1. A container suitable for a battery jar having a bottom and four vertical sides, the bottom and four sides being formed of a single blank and each of the two other sides being formed of a single blank, each blank consisting of a sheet metal backing having the entire inner face covered by a sheet of absorbent fibrous material adhesively secured thereto, the adjacent marginal portions of the contiguous blanks being united together by folding together the said marginal portions in such manner that all of the said folds are on the exterior of the finished container, the marginal portions of the absorbent facings as well as of the backings being inclosed in the folds, said absorbent facings being permeated with an acid resisting substance.

1,344,772. RADIATOR. WILLIAM REIFERSCHEID, Chicago, Ill. Filed Mar. 4, 1918. Serial No. 220,228. 3 Claims. (Cl. 257—130.)



1. A radiator of the nature described, including a casing, a series of spaced apart vertically disposed water tubes in said casing, and a deflector between adjacent water tubes to direct air entering the space between adjacent water tubes toward the walls thereof, said deflector being vertically disposed in said space and having a V-shaped transverse section, the apex of which is directed toward the front of the water tubes.

1,344,773. TIRE FOR WHEELS. WILLIAM SEIDEL, Chicago, Ill. Filed Oct. 8, 1917. Serial No. 195,327. 5 Claims. (Cl. 152—5.)

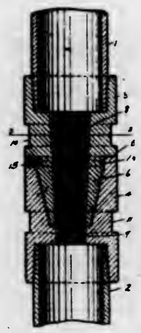


1. A vehicle tire comprising, in combination, an outer casing, and filler elements of segmental shape within the casing arranged in courses in break joint fashion one on each side of the tire, each filler element comprising a body portion, a plurality of outwardly disposed webs, and a plurality of inwardly disposed webs, the outer webs being arranged to engage with the inner side of the casing and the inner webs in one course of filler elements being arranged to engage with the corresponding parts on the filler elements in the other course, and means for preventing movement of the filler elements relative to each other, substantially as described.

5. A vehicle tire embodying in combination an outer casing and a cushion filler within the casing, the filler consisting of elements arranged in courses around the tire, the portions of the elements adjacent to the interior side of the casing being recessed at intervals to present a series of webs in abutting relation to the casing, and the portions of the elements adjacent to each other being recessed at intervals to present a series of webs in abutting relation to each other, substantially as described.

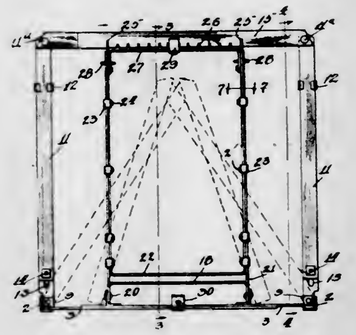
1,344,774. TOOL-JOINT. GEORGE A. STAFFORD and ROY M. STAFFORD, Sourlake, Tex. Filed Sept. 2, 1919. Serial No. 320,973. 3 Claims. (Cl. 285—146.)

1. A tool joint including two joint members, one of which is formed with a reduced outwardly threaded tapering pin, and the other of which is provided with a correspondingly shaped internally threaded box, adapted to



receive said pin, said members being provided with alined internally threaded water passageways therethrough.

1,344,775. COLLAPSIBLE CULVERT-FORM. GEORGE W. STORMS, Kalamazoo, Mich., assignor of one-half to Austin H. Long, Crawfordsville, Ind. Filed Oct. 25, 1919. Serial No. 333,243. 5 Claims. (Cl. 25—131.5.)

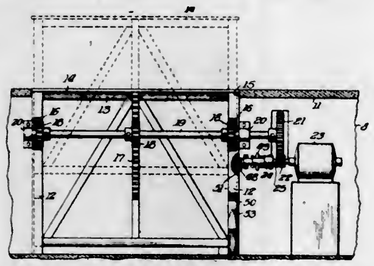


4. A device of the kind set forth comprising a pair of longitudinal side bars, members pivoted thereto each including a perpendicular portion and a diagonal brace portion, additional members slidably connected to the perpendicular portions, cross-members for connecting the side bars together, a cross piece extending inward from the top of each member and overlapping the cross-piece from the member opposite thereto, and a vertically adjustable supporting frame for said cross-pieces.

1,344,776. RAILROAD-GATE. FLORENCE A. STRIETER, Chicago, Ill. Continuation of application Serial No. 106,131, filed June 27, 1916. Patent No. 1,245,061, dated Oct. 30, 1917. This application filed May 23, 1917. Serial No. 170,349. 2 Claims. (Cl. 246—126.)

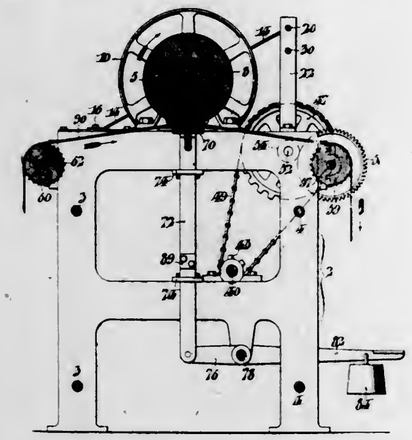
1. The combination of a gate, means for elevating said gate, means for supporting said gate when elevated,

means for starting said elevating means, means for stopping said elevating means, and means operated by said



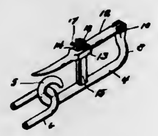
elevating means for withdrawing said supporting means when said elevating means stops.

1,344,777. MACHINE FOR TREATING CUT PILE FABRICS. DAVID H. STROUD, Philadelphia, Pa. Filed Jan. 18, 1917. Serial No. 142,992. 12 Claims. (Cl. 26—12.)



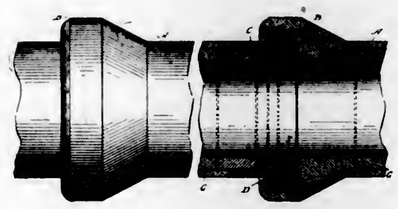
3. In a machine for treating cut pile fabrics and the like, the combination of a rotary feed roll for progressing the fabric, a braked roll transmitting the fabric to said feed roll, a rotary scraping roll with continuous abrasive surface moving in the opposite direction to the fabric, and a ledger bar at the other side of the fabric from said scraping roll movable toward and away therefrom to bring the fabric into contact therewith, and vice versa.

1,344,778. FASTENING DEVICE FOR ANTISKID-CHAINS. EDWARD A. TOMLIN, Bonner Springs, Kans. Filed Jan. 27, 1920. Serial No. 354,374. 2 Claims. (Cl. 24—241.)



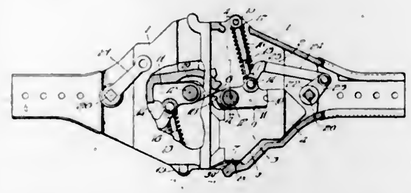
1. A fastening device for detachably connecting antiskid chain terminals, comprising a main longitudinal portion secured to one of said terminals and having an outwardly projecting finger for detachably engaging the other of said terminals, a rigid post spaced from said finger and projecting outward from said main longitudinal portion, a closure element pivoted to the outer end of said finger and provided with an opening intermediate its ends for fitting over the outer end of said post, and a cotter pin fitted removably in the outer end of said post for retaining said closure element in closed position, the free end of said closure element projecting in position for finger-engaging purposes.

1,344,779. PIPE OF CONCRETE AND THE LIKE. JEFFERSON D. TRAMMELL, Fort Worth, Tex. Filed Nov. 18, 1918. Serial No. 263,029. 3 Claims. (Cl. 72—53.)



1. A concrete pipe joint comprising a bell member having a longitudinally extending portion of its interior provided with a cylindrical hard metal, or other smooth, lining not exceeding in diameter at any point the diameter of any part nearer the bell's end, a spigot lying in the bell, and a narrow ring of calking material compacted between said lining and spigot.

1,344,780. CAR-COUPLING. HERBERT E. VAN DORN, Chicago, Ill. Filed Sept. 27, 1919. Serial No. 327,001. 8 Claims. (Cl. 213—17.)

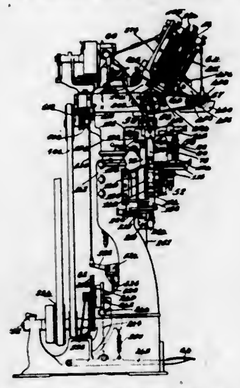


5. A coupler comprising a chambered head open at the front and having a forwardly-projecting hook at one side, the hook having a width at the base approximately equal to one-half the width of the head, a locking block mounted in said head so as to be capable of swinging about a vertical axis arranged at approximately the longitudinal center of the head and capable of swinging from a locking position in which it extends longitudinally of the head into a release position in which it extends transversely of the head behind the base of the hook.

1,344,781. SHANK-PIECE-LAYING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 11, 1916. Serial No. 136,356. 68 Claims. (Cl. 1—19.)

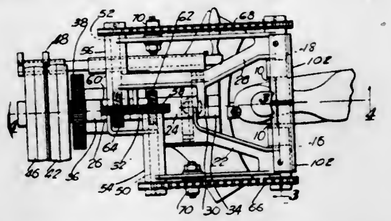
1. A shank-piece laying machine having, in combination, means for supporting a shoe; and means for applying a shank-piece to the shoe in a predetermined position by a movement normal to the face of the shank piece.

4. A shank-piece laying machine having, in combination, means for retaining a supply of shank-pieces; and means for withdrawing pieces singly from said supply and presenting them in position for application to a shoe.



9. A shank-piece laying machine having, in combination, means for applying adhesive to a shank-piece, and means for supporting the shank-piece in position for application to a shoe.

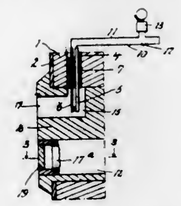
1,344,782. HEEL-BREASTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 16, 1916. Serial No. 137,369. 18 Claims. (Cl. 12—47.)



1. A heel-breasting machine having, in combination, two cutters arranged to operate simultaneously on opposite sides of the heel-breast of a shoe; and means for actuating the cutters in angularly related paths of motion.

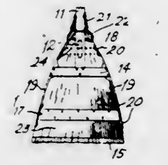
7. A heel-breasting machine having, in combination, a rotary cutter adapted to shape the concave heel-breast of a shoe; and a gage curved about the cutter and having one edge substantially parallel to the axis of the cutter and arranged to engage the sole of the shoe, adjacent the cutter, to limit the depth of the cut.

1,344,783. CIRCUIT-CLOSER FOR DOOR-LOCKS. ANNA KOFAL WINTER, New York, N. Y. Filed Sept. 20, 1918. Serial No. 254,916. 2 Claims. (Cl. 200—55.)



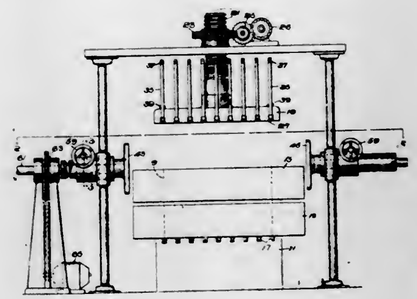
1. In a door lock, the combination with the normal body having a key slot, the body having a similar slot that is adjacent to said key slot and of different configuration, an electric contact device in the body at the latter slot adapted to control an alarm and arranged to be engaged by a key when it is inserted in said similar slot.

1,344,784. REINFORCED BROOM. SHIKAZO YAMAMOTO, Los Angeles, Calif. Filed Feb. 24, 1919. Serial No. 278,714. 1 Claim. (Cl. 15—20.)



A broom embodying a handle, a bar at the extremity thereof, a fiber core incasing the bar and secured to the handle, brush fibers incasing the core, reinforcing plates disposed on opposite sides of the broom, and flexible binding cords stitched to the brush fibers and reinforcing plates and passing through the fiber core.

1,344,785. BALING. EDWARD H. ANGIER, Framingham, Mass. Filed July 6, 1918. Serial No. 243,516. 18 Claims. (Cl. 100—14.)



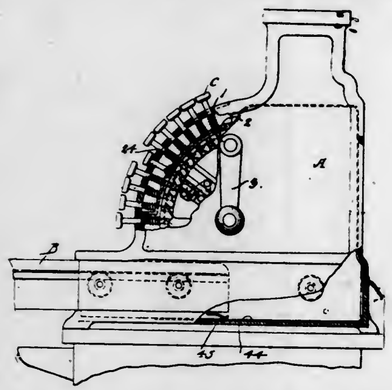
1. A method of baling comprising compressing the material, surrounding it with comparatively narrow ties while under compression and wrapping the space between said ties to provide broad, band-like, permanent ties surrounding the completed bale.

16. Baling mechanism comprising a grooved bed having removable transverse bars in the grooves thereof, an opposed grooved plunger having corresponding transverse bars and connecting members hinged to the bars of one set and having provision for releasable engagement with those of the other.

1,344,786. PAYING ATTACHMENT FOR CASH-REGISTERS. STEPHEN J. BACHARDY, New York, N. Y., and JAMES KISS, South Bethlehem, Pa., assignors to Self Change Making Drawer Co., Allentown, Pa., a Corporation. Filed Dec. 11, 1917. Serial No. 206,618. 28 Claims. (Cl. 133—4.)

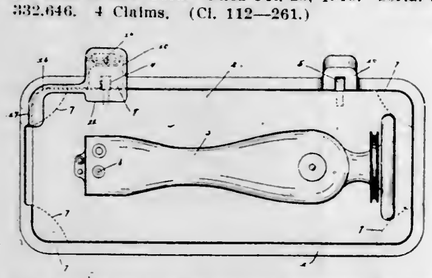
1. In combination, a cash register comprising sales keys, a cash drawer therefor, money handling mechanism consisting of a plurality of ejectors mounted in the drawer,

an operating device common to said ejectors mounted on the drawer, and means operable from the sales keys of



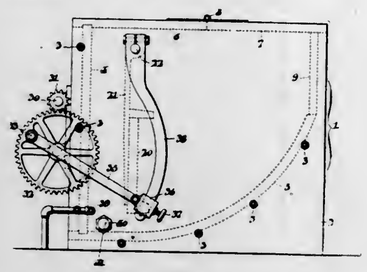
the register to pre-select ejectors of the said money handling mechanism for subsequent actuation by the said operating means.

1,344,787. OIL-GUARD FOR SEWING-MACHINES. WALTER J. BEATTIE, Cohoes, N. Y., assignor to The Beattie Manufacturing Company, Cohoes, N. Y., a Corporation of New York. Filed Oct. 23, 1919. Serial No. 332,646. 4 Claims. (Cl. 112—261.)



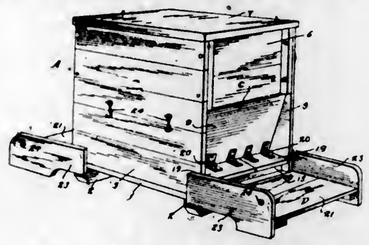
3. A sewing-machine attachment comprising a guard-plate adapted to cover a hinge-connection between the rear portion of the bed-plate of a sewing machine and a support upon which said sewing-machine is mounted; a bracket having means whereby it can be attached to said support in rear of said hinge-connection, and a spring-hinge-connection between said bracket and said guard-plate.

1,344,788. DYEING-MACHINE. FREDERICK L. BICKEL, Ivyland, Pa. Filed May 31, 1919. Serial No. 300,846. 10 Claims. (Cl. 8—18.)



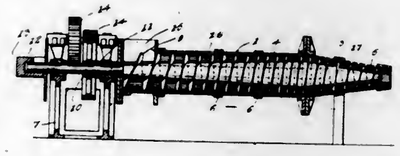
1. In a machine for treating fabrics or materials, the combination of a receptacle or vat for the treating liquor; and means for compressing the material under treatment to expel a part of the absorption comprising a diaphragm adapted to oscillate in said vat and periodically move the material under treatment out of the treating liquor.

1,344,789. HOG-FEEDER. CHARLEY BURNETT, Washington Court-House, Ohio, assignor of one-fourth to Harvey Grant Coffman and one-fourth to Lewis Clayborn Coffman, Washington Court-House, Ohio. Filed June 14, 1919. Serial No. 304,199. 5 Claims. (Cl. 119—53.)



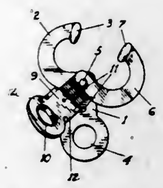
1. A hog feeder comprising a hopper formed to include a base having perpendicular side walls connected therewith, the front wall being provided with an opening, an angularly disposed door member hinged to said front wall and disposed to substantially close said opening, an upwardly projecting abutment positioned upon said base, and a lid hinged at one edge to the lower end of said member and having its opposite edge disposed to overlie said abutment.

1,344,790. WORM-PRESS. SIDNEY V. BURROWS, Chicago, Ill. Filed Apr. 28, 1917. Serial No. 165,186. 2 Claims. (Cl. 100—48.)



1. A worm press including a shell having a cylindrical body portion and a tapered front portion, said body portion being provided with an intake opening at its rear end, a drum journaled in and extending longitudinally of the body and front portions, said drum gradually increasing in diameter from the rear end of the body portion to and in the direction of the front end of the body portion and gradually decreasing in diameter from the front end of the body portion in the direction of the front end of the tapered portion, a worm on the drum gradually decreasing in pitch from the rear end of the body portion to and in the direction of the front end of the body portion and then gradually increasing in pitch in the direction of the front end of the tapered portion, and drum rotating means.

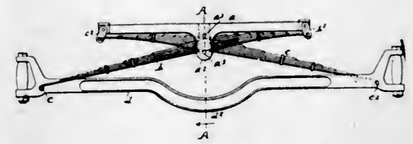
1,344,791. STOCK-TIE LEAD. JAMES C. CHESTER, Modesto, Calif. Filed Oct. 6, 1919. Serial No. 328,797. 3 Claims. (Cl. 119—132.)



1. A stock-tie lead comprising a pair of hooks pivoted together to form a ring and having knobs on one end there-

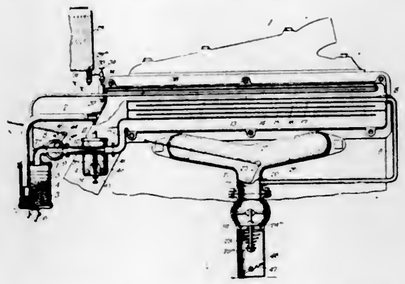
of, eyes on the opposite ends of such hooks, such eyes being adapted to aline and abut against each other when the hooks are in their closed position, and means on one eye adapted to then engage the other eye whereby when the eyes are in such abutted alinement the hooks cannot then be opened.

1,344,792. VEHICLE-SPRING. FRANK V. COOKE, New Eagle, Pa. Filed Sept. 26, 1919. Serial No. 326,445. 4 Claims. (Cl. 267—36.)



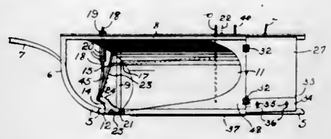
1. The combination of a vehicle body, an axle, a spring pivoted to one side of the body and to the end of the axle farthest from said side, a second spring pivoted to the other side of the body and to the other end of said axle, a forked member depending from said body adapted to embrace said springs in such manner as to permit movement of the springs longitudinally, but to restrain movement laterally and vertically within said forked member, said forked member adapted to form an upper fulcrum support for said springs.

1,344,793. APPARATUS FOR SUPPLYING EXPLOSIVE GAS TO INTERNAL-COMBUSTION ENGINES. PERCY J. DASEY, Chicago, Ill. Filed Oct. 16, 1918. Serial No. 258,337. 16 Claims. (Cl. 123—25.)



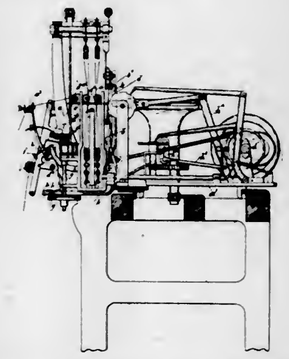
1. In apparatus for supplying explosive gas to an internal combustion engine, a passage in communication with the exhaust passages of the engine, a vaporizing nozzle in said passage for supplying liquid fuel to exhaust gases passing therethrough, heating passages continuous with said first mentioned passages for heating the gaseous mixture to a high temperature, an air supply means for mixing the heated gaseous mixture with cold air to form an explosive charge.

1,344,794. SNOWPLOW. EDWARD JAMES DYSON, Colorado Springs, Colo. Filed Sept. 26, 1919. Serial No. 326,484. 3 Claims. (Cl. 37—42.)



1. The combination in an adjustable snow-plow of the class described, with a sled-frame member, of a lever-controlled vertically adjustable third runner provided to prevent a laterally sliding movement of the snow-plow, a moldboard member provided to throw the snow to one side of the path, a lever-operated adjustable share for cutting the snow from the roadway, lever-locking means for throwing the weight of the front of the plow on said share, side wings pivoted to the sides of said sled frame member at their forward ends and lever-operated means for throwing the rear ends of said wings outwardly from the sides of said frame and means for locking them in the desired position.

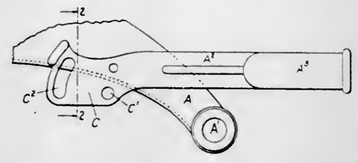
1,344,795. MECHANISM FOR OPERATING UPON WARP-THREADS OR THE LIKE. MILLARD F. FIELD, and CHARLES D. LANNING, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 23, 1905. Serial No. 246,831. 27 Claims. (Cl. 139—94.)



1. In a machine for operating upon warp threads, the combination with a warp carriage of mechanism for operating upon the threads including a warp thread separating worm adapted to pick off or select the threads one by one, a thread taking member to take the threads from the separating worm the latter being adapted to feed toward said thread taking member a plurality of selected threads at a time in controlled and separated relation, a feeler member adapted to engage a plurality of the threads so controlled by said worm, and means controlled by said feeler member for effecting a compensating adjustment of the warp support with relation to said worm.

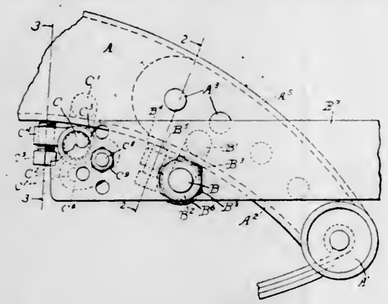
26. A machine for operating upon warps having, in combination, a main frame, a mechanism carriage movable along the frame, a warp carriage on the frame, a rack on the warp carriage, a pinion on the mechanism carriage in mesh with the rack, an endless flexible element on the main frame arranged to rotate the pinion, and manual means for moving said element.

1,344,796. SUPPORT FOR AUTOMOBILE-BUMPERS. LEWIS P. HALLADAY, Streator, Ill. Filed July 30, 1919. Serial No. 314,298. 17 Claims. (Cl. 293—55.)



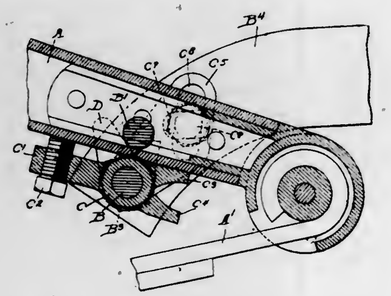
2. A support for automobile bumpers comprising a bracket adapted to engage one side of the frame, a hook separate therefrom adapted to engage one of the frame flanges at a plurality of points therealong, and means for drawing the hook and bracket together to clamp them on the frame.

1,344,797. CLAMP FOR AUTOMOBILE-BUMPERS. LEWIS P. HALLADAY, Streator, Ill. Filed Nov. 5, 1919. Serial No. 335,859. 47 Claims. (Cl. 293—55.)



10. A clamp for automobile bumpers and the like comprising a clamping member adapted to engage one side of the frame, a cam, a connection between it and the clamping member, and means for rocking it to grip the frame between it and the clamping member, the rocking means comprising a set screw adapted to engage the frame, and means independent of the clamping means for attaching an automobile bumper to said clamp.

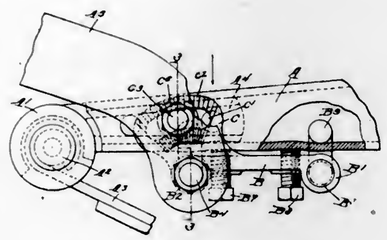
1,344,798. SUPPORT FOR AUTOMOBILE-BUMPERS. LEWIS P. HALLADAY, Streator, Ill. Filed Jan. 19, 1920. Serial No. 352,408. 45 Claims. (Cl. 293—55.)



4. A clamp for automobile bumpers and the like comprising a clamping member adapted to engage one side of the frame, a cam, a connection between it and the clamping member, and means for rocking it to grip the frame between it and the clamping member, the rocking means comprising a set screw adapted to engage the frame, a bumper bar support pivoted on the clamping member and means associated with the cam for holding the bumper bar support against rotation about the clamping member.

1,344,799. AUTOMOBILE-BUMPER SUPPORT. LEWIS P. HALLADAY, Streator, Ill. Filed Feb. 16, 1920. Serial No. 358,951. 21 Claims. (Cl. 293—55.)

10. A holding clamp comprising a body on one side of the part to be clamped, spaced hook members mounted thereon and adapted to overhang and engage the part to be clamped, clamping members mounted on the body and engaging the part to be clamped in opposition to the hook members, a lug extending outwardly and upwardly from the body and adapted to lie along side of an automobile frame when the part which is clamped is one of the frame flanges, and a bumper supporting bar pivoted on the body and adjustably supported on the lug, the lug having a slot concentric with the pivot point of the bar, means extending through the slot and the bar for holding the bar against the lug, the face of the lug opposed to the bar being serrated, means associated with the bolt and between the serrated face of the lug and the bar for engaging said serrations and positively holding the bar against movement.

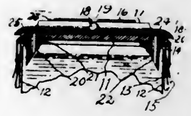


1,344,800. TURNBUCKLE-WRENCH. CARTER J. JOHNSON, Green Bay, Wis. Filed Feb. 17, 1920. Serial No. 359,318. 2 Claims. (Cl. 81—90.)



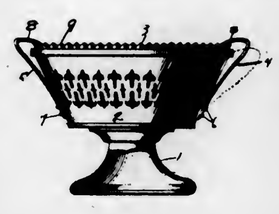
2. A turnbuckle wrench including an elongated body having its end bifurcated and the legs thereof formed with alining openings, a plug seated in the other end of the body and having a longitudinal groove in one side, a leaf spring secured to the inner end of the plug and extending across the groove, and a removable pin engaged in the groove and held by the spring, said pin being adapted to be passed through the openings of the legs of the bifurcation and nut of a turnbuckle.

1,344,801. DETACHABLE CAN-FUNNEL. TORAKI KITAOKA, Los Angeles, Calif. Filed Feb. 24, 1919. Serial No. 278,688. 5 Claims. (Cl. 221—23.)



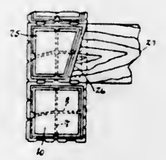
1. In a can delivery funnel, a clamp member adapted to engage with the top of the can, a cylindrical body formed integral therewith, a pair of punches integral with the clamp and adapted to perforate the top of the can, said punches having ports therein, a rotary bolt mounted in the cylindrical body and arranged to cover the ports in the closed position, a handle to operate the bolt to open position, and spring latch members mounted on the ends of the clamp and adapted to engage with the rim of the can in applied position.

1,344,802. HOLDER FOR PAPER DISHES. JOHN LACKNER, Long Island City, N. Y. Filed Mar. 24, 1920. Serial No. 368,346. 2 Claims. (Cl. 65—61.)



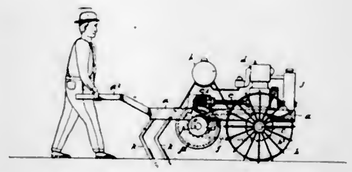
1. A cup-shaped receptacle for a cup, handles formed of flexible material, the lower ends of which are secured to the wall of the cup, the upper ends extending inside of th rim of the cup.

1,344,803. WALL CONSTRUCTION. JOHN A. LANNERT, Cleveland, Ohio. Original application filed Oct. 26, 1917, Serial No. 198,583. Divided and this application filed July 17, 1919. Serial No. 311,495. 2 Claims. (Cl. 72—41.)



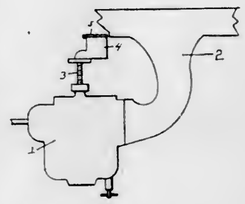
1. In a wall structure, the combination of a plurality of hollow blocks arranged in superposed courses, solid blocks disposed between adjacent ends of said hollow blocks and interlocked therewith, and said solid blocks in the several courses being disposed one above the other and being supported on each other, thereby forming a series of solid vertical columns, said solid blocks and columns being sufficiently wide to receive thereon a joist.

1,344,804. CULTIVATOR. WALFORD LARSON, Detroit, Mich. Filed Apr. 14, 1919. Serial No. 290,020. 2 Claims. (Cl. 180—19.)



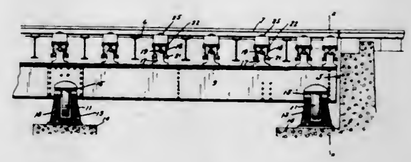
1. In an apparatus of the kind described, a frame resting upon a single axle, driving wheels on said axle, an internal combustion engine on said frame vertically above said axle, means extending from said frame to be operated rearwardly from said axle, said frame being provided with handles to be grasped by the operator, a jack shaft on said frame between said handles and axle, said shaft being provided with a differential gear having a master wheel at its center, a worm shaft extending directly from said engine and having a worm on its end remote from the engine engaging corresponding teeth on said master wheel and sprocket chains and wheels for conveying the power from said jack shaft to said driving wheels.

1,344,805. PRIMING DEVICE FOR GASOLENE-ENGINES. ROLLIN O. MCASSEY, San Diego, Calif. Filed Sept. 5, 1919. Serial No. 321,934. 2 Claims. (Cl. 123—180.)



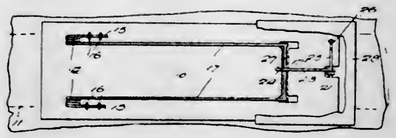
1. A device of the class described comprising a needle valve having a reservoir thereon and a conduit therein connecting said reservoir with the interior of the mixing chamber of a carbureter in which said needle valve may be mounted, adapted to convey a liquid from said reservoir to said mixing chamber; for the purposes set forth.

1,344,806. OSCILLATING-PEDESTAL SUPPORT. PERCY D. MCFARLANE, Minneapolis, Minn., assignor of one-third to Oliver A. Readfield and one-third to Daniel J. McGrath, Minneapolis, Minn. Filed Apr. 5, 1919. Serial No. 287,670. 5 Claims. (Cl. 265—71.)



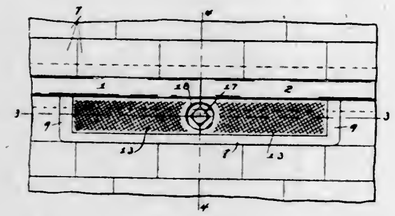
1. In a scale mechanism of the kind described, the combination with weigh bridge girders and scale levers supporting the same, of pedestals mounted on said weigh bridge girders, and a platform or rail structure mounted on said pedestals, said pedestals having yielding elements permitting approximately horizontal movements of said platform or rail structure in respect to said girders.

1,344,807. GOPHER-TRAP. AUGUST MARON, Whittier, Calif. Filed Sept. 13, 1918. Serial No. 253,927. 1 Claim. (Cl. 43—86.)



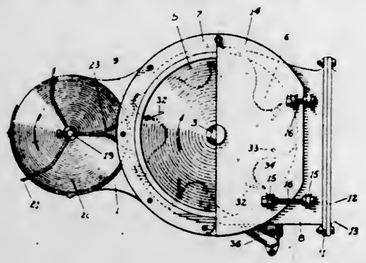
An animal trap comprising a supporting body, a snare element including spaced side members spring controlled and connected by a loop at one end directed at right angles to the side members, a trigger device operating transversely of the loop and longitudinally of the side members, another trigger device operating transversely of the first mentioned trigger device, and a trip device engaged by the last mentioned trigger device and including an obstruction in proximity to the loop and in the path of the animal passing therethrough, said obstruction movable away from the loop to release the triggers.

1,344,808. RAIL-JOINT BOX. WILLIAM C. MASON, Albany, N. Y., assignor to The Dayton Malleable Iron Company, Dayton, Ohio, a Corporation of Ohio. Filed May 5, 1920. Serial No. 378,950. 7 Claims. (Cl. 238—312.)



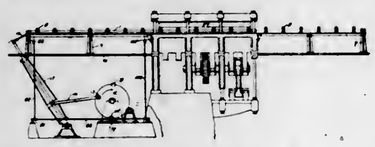
1. In a rail-joint-box, the combination with a body having a side wall with cover-supporting members, and two end walls; of a pair of cover-plates adapted to rest upon said cover-supporting members, said cover-plates being hinged at their outer ends upon the respective end walls; and a screw-connection between the inner ends of said cover-plates.

1,344,809. STEAM-CONSERVER FOR CANNERY COOKERS AND EXHAUSTS. ORRIN L. MERRITT and WILLIAM P. JONES, Stockton, Calif. Filed Mar. 7, 1919. Serial No. 281,153. 4 Claims. (Cl. 214—17.)



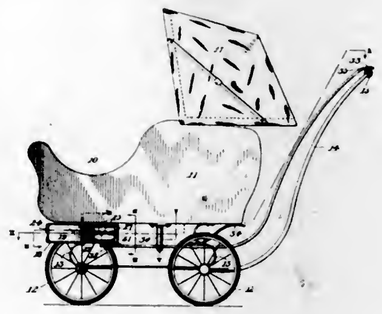
1. The combination with a cannery cooker of a cylindrical casing adapted to be secured over the entrance to the cooker and having communication therewith, a rotatable member in the casing provided with peripheral recesses in spaced sequence and adapted to receive cans therein, a pivotally mounted rod in the edge of each recess, a curved arm on the rod normally spring-pressed against the face of the recess positioned therein and adapted to partly encircle a can, and means to turn the rod and cause the arm to sweep across the recess when such recess registers with the entrance to the cooker.

1,344,810. FEEDING AND DELIVERING MECHANISM FOR SHEET-METAL-WORKING PRESSES. HENRY MILLER, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Mar. 30, 1918. Serial No. 225,790. 30 Claims. (Cl. 271—55.)



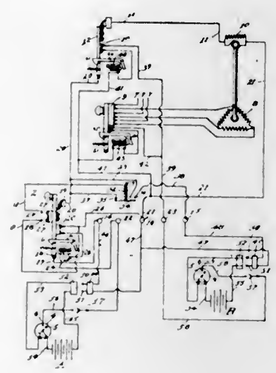
5. Feeding mechanism, including the combination of a main slide provided with carrying members for supporting and positioning a plate, means for reciprocating the main slide, and auxiliary means actuated by the first named means for actuating the carrying members preparatory to the movement of the main slide in either direction.

1,344,811. BABY-CARRIAGE. JOSEPH MODRZEJESKI, Milwaukee, Wis. Filed Nov. 20, 1919. Serial No. 339,391. 6 Claims. (Cl. 240—61.)



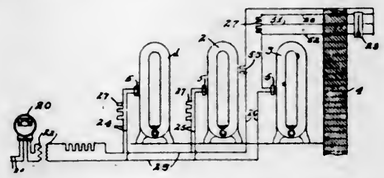
1. In combination with a baby carriage including a push bar, a headlight pivoted beneath the body of the carriage and shifting means for the headlight projecting rearwardly thereof adapted for actuation at a point adjacent the push bar of the carriage.

1,344,812. MEANS FOR CHARGING STORAGE BATTERIES. CLARENCE E. OGDEN, Cincinnati, Ohio. Filed Nov. 14, 1918. Serial No. 262,623. 4 Claims. (Cl. 171—314.)



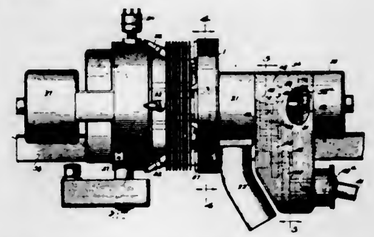
1. Means for charging storage batteries comprising in combination with a charging circuit, a switch for controlling said circuit, and electrical connetions for a plurality of storage batteries to be consecutively charged by said circuit, of means for manually closing the circuit through the first battery to be charged, a meter for gaging the charge to each battery, means whereby each of said meters is arranged automatically to open the charging circuit through its battery and to close the charging circuit through the succeeding battery, and means whereby the meter for the last battery is arranged automatically to open the switch in said charging circuit.

1,344,813. METHOD AND APPARATUS FOR MEASURING HEAT. JOSEPH P. O'HERN, Chicago, Ill. Filed May 29, 1918. Serial No. 237,211. 7 Claims. (Cl. 73—184.)



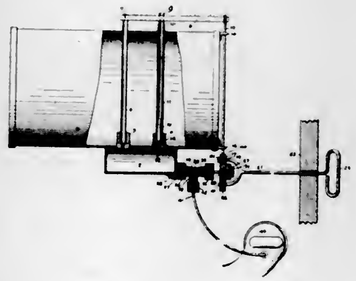
1. The combination with a plurality of independently operable heating elements, of a meter for determining the amount of heat furnished thereby, automatically operable means for actuating the meter proportionately to the number of heating elements in operation and proportionately to the individual heating capability of each element, and means connected with said heating element for changing the resistance of the heating element in accordance with temperature changes.

1,344,814. POWER PLANT. RAYMOND H. OLLEY, Syracuse, N. Y. Filed July 25, 1917. Serial No. 182,694. 4 Claims. (Cl. 290—27.)
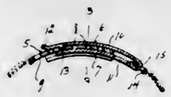


1. A power plant comprising a turbine, a combustion chamber communicating with the casing of the turbine, means for compressing the motive fluid in the chamber, an electric motor connected to the said means to operate the same to compress and expel the charge from the combustion chamber, and an electric generator for supplying the motor and connected to the turbine to be driven thereby, substantially as and for the purpose specified.

1,344,815. FUEL-SUPPLY FOR INTERNAL-COMBUSTION ENGINES. AUGUST H. PAPE, Kentfield, Calif. Filed Mar. 4, 1919. Serial No. 280,547. 3 Claims. (Cl. 123—180.)



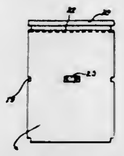
1. In combination with main and auxiliary receptacles for fluid fuel, having communication between them, the auxiliary tank communicating with the combustion chamber of an internal combustion engine, means operated at will, for simultaneously opening either of said communications and closing the other and when desired, opening both communications simultaneously, said means maintaining the communications established and cut off without necessitating the manual holding thereof.

1,344,816. CLASP. DON L. PASSAGE, Bennington, N. Y. Filed Mar. 27, 1920. Serial No. 369,199. 2 Claims. (Cl. 24—206.)



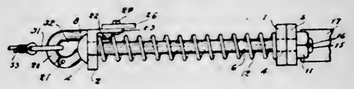
1. A clasp composed of a catch and keeper, the keeper including guides and having a plurality of openings, the catch comprising a U-shaped strip bent upon itself to provide parallel arms, one of said arms including a lug which inclines toward the other arm inwardly of the ends to provide a recess between the lug and the arm thereof, the other arm of the catch being arranged for sliding movement in the guides of the keeper, said lug being urged into one of the openings of the keeper, said catch causing the portion of the keeper surrounding the opening through which the lug extends, to be forced into said recess.

1,344,817. BEEHIVE. FRANK PELC and STEFANIA PELC, McDonald, Pa. Filed May 24, 1919. Serial No. 299,483. 1 Claim. (Cl. 6—2.)



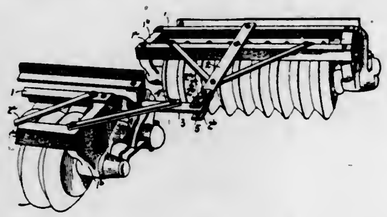
In a bee hive of the character described, the combination of a plurality of upper and lower cleats with a plurality of juxtaposed grooved plates, each comprising a head, tongues formed with short strips carried on said head and adapted to enter said grooves, said heads adapted to rest upon the upper cleats and the corners of the lower edges of said plates recessed or removed for permitting engagement with the lower cleats, and knob extensions formed in substantially the center of said plates adapted to make contact with the adjacent plate for spacing the several plates, substantially as described and for the purpose set forth.

1,344,818. SAFETY-HITCH. ROBERT H. POGUE, Winnipeg, Manitoba, Canada. Filed Apr. 19, 1918. Serial No. 229,637. 1 Claim. (Cl. 213—67.)



A safety hitch comprising front and rear head plates resiliently spaced apart, a draft rod extending rearwardly from the front head plate and passing slidably through an open slot provided in the rear head plate, a catch pivotally secured to the rear end of the rod and provided with a forward extension lying upon the slot, arms extending forwardly from the rear head plate and on opposite sides of said slot, and a plate adjustably supported on said arms and bridging the space therebetween to overlie the forward extension of the catch.

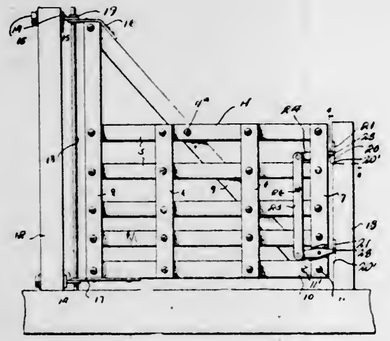
1,344,819. TANDEM IMPLEMENT. EARL J. POWELL, Berea, Ohio, assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Aug. 6, 1919. Serial No. 315,746. 10 Claims. (Cl. 55—77.)



1. A draft appliance for tandem implements, comprising a projecting draft arm detachably connected to the rear of the front implement, a reach bar detachably connected to the latter and the outer projecting end of said draft arm, and a trailer having a central draft bar detachably and flexibly connected to said draft arm.

3. In a tandem implement, the combination with a forward section having laterally extending detachable draft members; of trailer sections arranged in stepped relation thereto and provided with central forwardly extending draft members flexibly and detachably connected to the ends of said laterally extending draft members of said forward section.

1,344,820. SWINGING GATE. MATHEW REH, Salina, Kans. Filed June 10, 1918. Serial No. 239,236. 1 Claim. (Cl. 39—87.)



In a gate, the combination with a hinge post, eyes carried by the hinge post near its upper and lower ends, and a pintle rod engaged in the eyes; of the gate proper consisting of horizontal bars and uprights secured against opposite faces of the bars, those at the inner end of the gate extending above the uppermost bar, a brace secured between the upper ends of the last mentioned uprights, said brace being disposed diagonally and having its lower end secured to the lower outer corner of the gate, a hinge plate secured along the bottom of the lowermost bar, and a hinge plate secured to the upper end of the brace and passing over the longer uprights, said hinge plates being engaged with the pintle rod, for the purpose set forth.

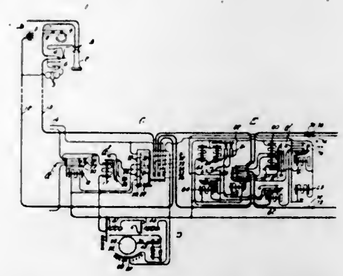
1,344,821. KNITTING-NEEDLE HOLDER. WILBERT C. RHODES, East Rochester, N. H. Filed Dec. 14, 1917. Serial No. 207,130. 1 Claim. (Cl. 24—13.)

A knitting needle holder comprising a pair of cylindrical bodies adapted to slidably receive knitting needles, safety pins extending through the bodies and fastened to a garment in opposite inclined planes so as to support the



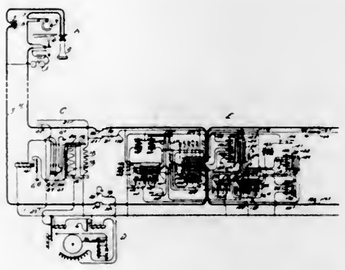
needles in such planes and permit the pointed ends thereof to be manipulated and in close proximity to each other.

1,344,822. SELECTIVE SWITCHING MECHANISM. RODNEY G. RICHARDSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1916. Serial No. 96,496. 38 Claims. (Cl. 179—18.)



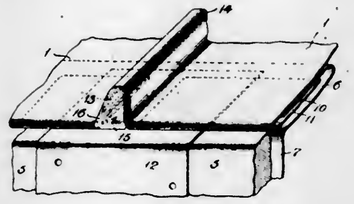
1. In a selective switching device, the combination with an electro-magnet having a plurality of circuit controlling armatures, of an energizing circuit for said magnet, means for concentrating the magnetic flux in any one of said armatures to operate the same independent of the others, and means for retaining any operated armature in operated position after said energizing circuit is broken.

1,344,823. AUTOMATIC TELEPHONE SYSTEM. RODNEY G. RICHARDSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1916. Serial No. 109,317. 52 Claims. (Cl. 179—18.)



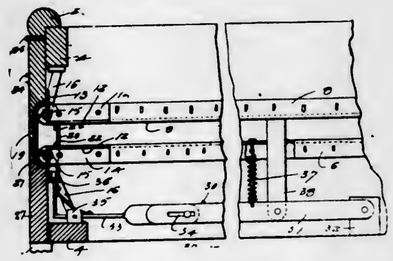
1. In a telephone system, the combination with an automatic switch provided with operating and restoring magnets, of a closed controlling circuit for said switch, means for causing interruptions of said circuit, a plurality of quick acting relays responsive to said interruptions, and circuits for said magnets controlled by said relays.

1,344,824. CAR-ROOF. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1919. Serial No. 332,474. 8 Claims. (Cl. 108—5.)



1. In a car roof, the combination of a roof frame, a top sheathing carried thereby, roof sheets having upstanding hooked side flanges, the flange of one roof sheet embracing the flange of the other roof sheet and said flanges having a hooked interengagement, the exterior flange being formed with an end plate which closes the eaves end of the seam and acts as a stop against relative outward movement of the sheet whose flange is inclosed, and interengaged hook elements on the roof frame and on the eaves ends of the roof sheets whereby the roof sheets and seams are held from upward movement.

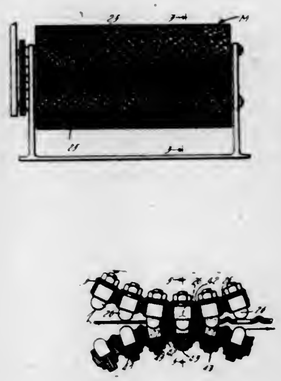
1,344,825. DAVENPORT. OSCAR HENRY SCHRAM, Oshkosh, Wis., assignor of one-half to Ernest Schlerf, Oshkosh, Wis. Filed June 18, 1918. Serial No. 240,580. 3 Claims. (Cl. 5—49.)



1. A davenport including a main frame and companion frames, angle iron members secured to the companion frames, right angle extensions formed on said angle irons, said angle irons having openings therein, reinforcing rods carried by said companion frame, pintles formed upon said reinforcing rods and received within the openings of the angle irons, plates having openings to receive said pintles for connecting the angle irons to form a hinge, and extensions formed on said plates and differing in length for engagement with the extensions and the angle irons when the companion frame occupies bed or seat-forming position.

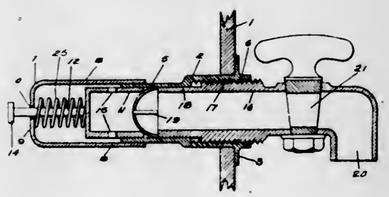
2. A davenport including a main frame and companion frames carried thereby, means hinging said companion frames together permitting them to be either swung into seat or bed-forming positions, a closure member adapted to overlie the hinging means and the space between the companion frames when said frames are in seat-forming position, a keeper carried by said closure member, a bar pivoted to the main frame, a substantially L-shaped catch pivoted to the main frame and pivotally and slidably connected to the bar, tension means connected to said bar for normally holding the catch out of the path of the keeper, and an actuating member connected to the bar and extending through one of the companion frames and adapted to be engaged by the other companion frame when swung into seat-forming position to lock the closure member against movement.

1,344,826. PROCESS OF MAKING LATH OR THE LIKE. JAMES P. SEXTON, Los Angeles, Calif. Filed May 12, 1919. Serial No. 296,435. 13 Claims. (Cl. 25—42.5.)



4. The process of forming plastic lath or the like, comprising forming a sheet of fibrous plastic substance with the fibers laid generally longitudinally of the sheet, and forming perforations through the sheet while plastic by pressing the fibers apart transversely, thereby expanding the plastic sheet, and then setting and finishing the sheet.

1,344,827. TAP AND FAUCET. JOHN CHARLES SHAFER, Edina, Mo. Filed Nov. 6, 1919. Serial No. 336,034. 1 claim. (Cl. 284—14.)

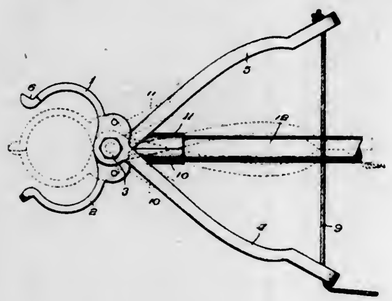


In a device of the class described, a casing; a U-shaped yoke comprising a head, and arms secured to the inner end of the casing; a cup-shaped valve slidable in the casing and having a side opening, the length of the valve being less than the distance between the inner end of the casing and the head of the yoke; a stem projecting from the valve and slidable in the head of the yoke; a spring surrounding the stem and abutting against the head of the yoke and against the inner end of the valve; an enlargement on the stem and coöperating with the head of the yoke to limit the forward movement of the valve under the action of the spring; and a delivery member insertible into the casing and coöperating with the valve to retract the valve against the action of the spring and to dispose the port to the rear of the casing.

1,344,828. ANIMAL-CATCHER. JOHN L. SIMANTEL, Sterling, Ill. Filed May 22, 1919. Serial No. 298,962. 7 Claims. (Cl. 119—154.)

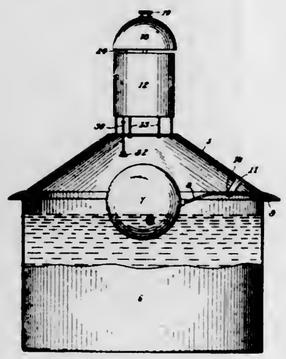
1. In an animal catcher, a pair of pivoted jaws, a handle by which to support said jaws, means for controlling said jaws with one hand while said handle is held

in the other hand, and a spring applied to said jaws and disposed in position to yieldingly hold the jaws closed,



and also to yieldingly hold the jaws open, so that in one case the spring tends to close the jaws and in the other case to open them.

1,344,829. BOILER ATTACHMENT. JAN SMOTER, Conemaugh, Pa. Filed Mar. 2, 1920. Serial No. 362,688. 4 Claims. (Cl. 116—111.)

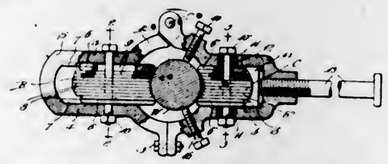


1. An alarm attachment for boilers and like vessels comprising a casing, means for rigidly mounting said casing upon the cover of a vessel, a shaft journaled within said casing and carrying a sound producing shell, a spring to rotate said shaft, a hammer, means operatively connecting said hammer to said shaft for rotating said hammer when the shaft is rotated whereby said hammer is caused to intermittently strike said shell, a ratchet wheel carried by said shaft, a pivoted stop carried by the casing and arranged to engage said ratchet wheel for preventing rotation of said shaft, a rod extending outwardly through the casing and connected to said stop whereby, when the rod is pushed inwardly of the casing said stop is released from said ratchet wheel for permitting rotation of said shaft, and a float for actuating said rod.

1,344,830. PROCESS OF RECOVERING POTASH. ARTHUR C. SPENCER, Washington, D. C. Filed Nov. 17, 1915. Serial No. 61,935. 6 Claims. (Cl. 23—22.)

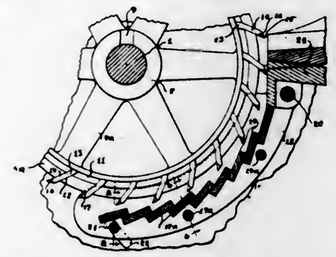
1. The process of recovering potash from silicates which comprises submitting an amorphous silicate material containing potassium to a metathetical reaction with a neutral salt of a strong base under heat and pressure and in the presence of a solvent and in the absence of any substantial amount of strong bases or acids the amount of such salt being at least 1.5 equivalents for the potassium present in such silicate material.

1,344,831. CRANK PIN AND SHAFT TRUING TOOL. JOSIAH H. SUTTER and CHARLES N. ATHERTON, Wichita, Kans. Filed Apr. 14, 1919. Serial No. 289,956. 24 Claims. (Cl. 82—4.)



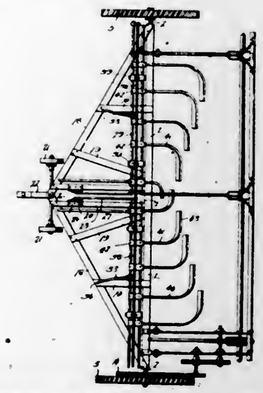
2. In a hand lathe, a stock having a cutter, and means carried by said stock for accurately guiding the stock and cutter around the work, comprising a bearing formed of sections resting slidably against each other and adapted to be relatively adjusted to dispose their ends on different arcs for contact with work of numerous diameters.

1,344,832. SHREDDING AND BLENDING MECHANISM FOR FEED. ROBERT A. STUBBS, Dallas, Tex., assignor of three-fourths to G. W. Griswold, Dallas, Tex. Filed May 1, 1915. Serial No. 25,175. 1 Claim. (Cl. 146—19).



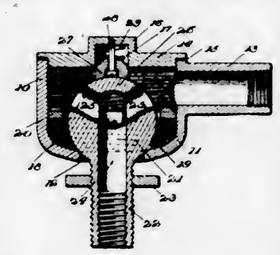
A shredding cylinder comprising a series of connected spiders each having a peripheral annulus with oblique contact faces and each annulus having on one of its sides an annular groove with connected recesses opening at the periphery of the annulus and shredding teeth abutting at their inner ends against the inner wall of the groove and extending through said recesses and projecting beyond the periphery of the said spiders.

1,344,833. CULTIVATOR. ROSCOE WALTER THAYER, Lacrosse, Wash. Filed June 13, 1917. Serial No. 174,576. Renewed Nov. 18, 1919. Serial No. 338,822. 1 Claim. (Cl. 97—34.)



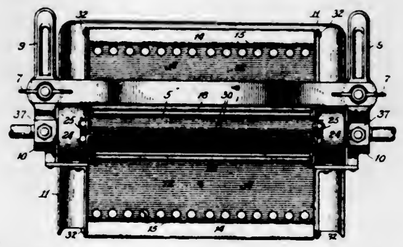
In a device of the class described, the combination of a main frame, a knife carrying frame positioned upon said main frame, knives connected to said knife carrying means, said main frame having curved guideways formed therethrough, fulcrum bars having curved end portions extending through said guideways, said fulcrum bars also being fixedly connected to said knife carrying frame and means for moving said knife carrying frame, thus causing the curved ends of said bars to ride through the curved guideways and thus permitting movement of said knife carrying frame.

1,344,834. FLEXIBLE PIPE-JOINT. GOTFRED J. THOMASSEN, West Philadelphia, Pa. Filed July 9, 1919. Serial No. 309,544. 10 Claims. (Cl. 285—91.)



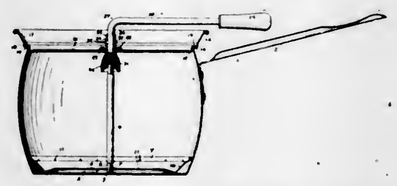
1. A flexible pipe joint including a socket provided with a closure cap, a ball mounted within the socket, a spring pressed follower acting against the peripheral surface of the ball, and means housed by the cap securing the follower thereto.

1,344,835. WRINGER. WILLIAM H. VOSS, Davenport, Iowa. Filed May 11, 1917. Serial No. 167,856. 10 Claims. (Cl. 68—32.)



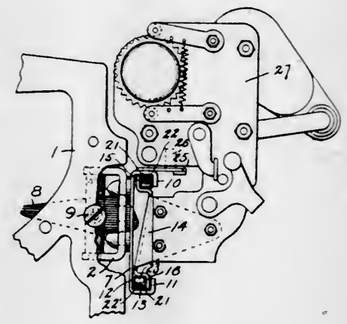
1. In wringing apparatus, a body portion, a pair of rolls, a guard bar adjacent one of said rolls, means connecting said bar to said body portion for permitting both vertical rectilinear and outwardly swinging adjustment of said bar with relation to said body portion, said means retaining said bar in whatever vertical rectilinear position it may be placed.

1,344,836. COOKING VESSEL AND COVER THEREFOR. MARCUS A. WALDEN, San Francisco, Calif., assignor to Frank Draber, San Francisco, Calif. Filed Feb. 13, 1919. Serial No. 276,803. 1 Claim. (Cl. 53—1.)



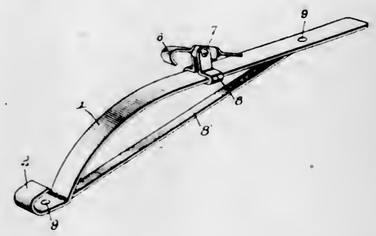
In combination with a cooking vessel, a circular lid, a circular cover thereon said lid and cover having eccentric holes therethrough, a stem for turning one of said elements relatively to the other, said stem having a portion extending outwardly beyond the upper edge of the cooking vessel, a nut screwed on the lower end of said stem, a stirrer in the bottom of the vessel, a vertical stem for said stirrer, the upper end of the stem being angular, and said nut having an angular recess to receive said angular upper end, and a perforated false bottom having an angular central aperture to receive said stirrer stem, the portion of the stem which is received in said aperture being also angular.

1,344,837. MACHINE HAVING SLIDING CARRIAGE. CHARLES WALES, New Haven, Conn., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Nov. 5, 1919. Serial No. 335,960. 5 Claims. (Cl. 197—69.)



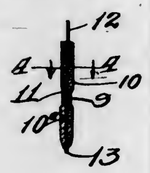
1. In a machine having a sliding carriage, the combination of a track member having at its top an overhanging flange and at its bottom upwardly projecting retaining means, a slide therein having at its upper and lower ends oppositely facing vertical surfaces and having at its lower portion a downwardly facing surface adjacent to the upper edge of the lower vertical surface, in combination with side-thrust anti-friction members between said vertical surfaces and said track member, and supporting anti-friction members between said downwardly facing surface and said track member, the upper end of said slide tending to move toward the overhanging flange.

1,344,838. TIRE-REPAIR TOOL. CHARLES WIELAND, Yankton, S. D. Filed Dec. 16, 1919. Serial No. 345,394. 2 Claims. (Cl. 152—27.)



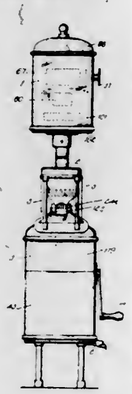
1. A tire repair tool of the class described comprising a longitudinal curved bar having a hook at one end on its convex side adapted to engage one flange of a tire casing, a handle portion, means slidably mounted on the bar for engaging the opposite flange of the casing when the tool is placed transversely thereof and a brace extending beneath the curved part of the bar.

1,344,839. TALKING-MACHINE NEEDLE. FRANK W. WILLIAMS, Chicago, Ill. Filed Aug. 21, 1917. Serial No. 187,466. 2 Claims. (Cl. 274—38.)



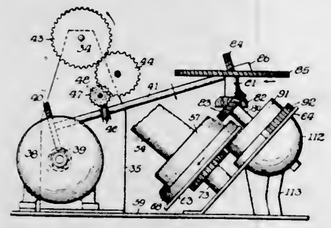
2. A talking machine stylus comprising a casing adapted to be secured in the stylus holder of a machine, said casing inclosing a needle with its two points projecting unequal distances therefrom.

1,344,840. COIN-REGISTER. ARTHUR H. WOODWARD, Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill., a Corporation of New York. Filed Dec. 23, 1913. Serial No. 808,381. 112 Claims. (Cl. 235—32.)



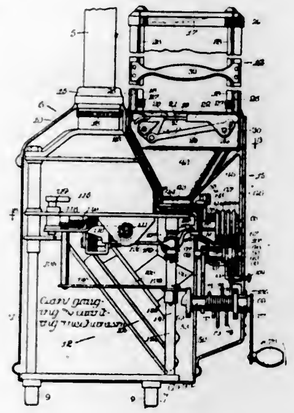
97. In combination coin feeding mechanism for feeding coins one at a time, coin measuring mechanism for measuring said coins in turn, a coin register connected to said measuring mechanism for registering each coin in terms of units less than fares, a fare register positively geared to said coin register for registering said coins in terms of even fares only, and resetting means for resetting said fare register only.

1,344,841. STATION COIN-REGISTER. ARTHUR H. WOODWARD, Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill., a Corporation of New York. Filed Apr. 15, 1915. Serial No. 21,540. 19 Claims. (Cl. 235—32.)



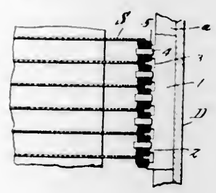
8. The combination with a coin measuring mechanism and registration means driven thereby and receiving coins therefrom, of a rotative feeding cylinder having a plurality of pockets, one for each coin, to feed the coins singly toward said measuring mechanism, a motor driving directly to said measuring mechanism, and direct driving connection between said feeding cylinder and said motor.

1,344,842. FARE COLLECTING AND REGISTERING MEANS. ARTHUR H. WOODWARD, Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill., a Corporation of New York. Filed Feb. 5, 1917. Serial No. 146,555. 5 Claims. (Cl 235—32.)



4. A hopper-receptacle comprising a hopper top for receiving tokens directly from the patrons, an inspection door and a receptacle below said inspection door, a discharge opening, door means for closing said discharge opening, and a combination lock governing said door means, said lock being inclosed and a shaft geared to said combination lock.

1,344,843. DOFFING-BRUSH. JOHN WOOLDRIDGE, Temple, Tex. Filed Dec. 5, 1918. Serial No. 265,417 2 Claims. (Cl. 13—11.)

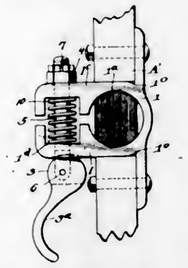


1. A dofling brush including a metal strip having broad spaced tongues extending from one edge thereof and forming saw receiving slots therebetween, flexible wiping elements resting upon said broad tongues and extending partly across the slots, and fingers projecting from the outer ends of the tongues and bent back thereonto and upon the wiping elements to clamp said elements upon the tongues, said fingers being narrower than the tongues.

1,344,844. WINDSHIELD-HINGE. EDWIN S. ZIEGLER, York, Pa. Filed Nov. 14, 1919. Serial No. 337,984. 1 Claim. (Cl. 296—96.)

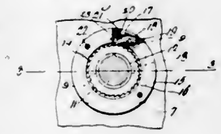
In combination, a wind shield standard, a bearing member mortised into said frame and having securing lugs bearing against the front face of said standard and secured thereto, said bearing member having a bearing recess

located in the plane of said standard and having a split portion provided with spaced arms projecting rearwardly from the standard, a bolt passing through said arms having means at one end for adjustably connecting it to one



of the arms, a spring encircling the bolt between said arms, and a lever pivotally connected to the opposite end of the bolt and having a cam portion bearing in a recess in the other arm.

1,344,845. NUT-LOCK. ALFRED ANDERSON, Goodhue, Minn. Filed June 26, 1919. Serial No. 306,907. 1 Claim. (Cl. 151—48.)



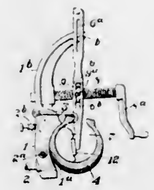
The combination with a bolt and nut, of a stationary washer on said bolt and provided with a plurality of peripheral ratchet teeth, an independent washer rotatable around said stationary washer and rotatable with said nut, said rotatable washer having an enlarged central opening whereby it is arranged to surround said stationary washer, the face of said rotatable washer adjacent the nut being recessed, a spring pressed pawl pivotally mounted in said recess and having its working end projected inwardly of said opening in the washer for engagement with the ratchet teeth of said stationary washer, said nut being adapted to cover the working end of the pawl, and the side of the nut adjacent the pawl having a groove therein for the reception of a tool to disengage the pawl from the teeth of the stationary washer.

1,344,846. FASTENING DEVICE FOR HINGED BOX MEMBERS. CHARLES C. ARMSTRONG, Huntington, W. Va. Filed Oct. 1, 1919. Serial No. 327,701. 7 Claims. (Cl. 70—27.)



2. A lock or fastening device for box members comprising a bar of resilient material having its ends secured to the inner wall of one box section, said bar having an integral projection or tongue overlying the other box section and provided with an opening, a keeper projection on said other box cover having an undercut recess, a push button carried by the first named box section and operatively engaging said resilient member, said push button having a key opening, and a key operated rotary member carried by said resilient member having a projection designed to engage the recess in said keeper projection.

1,344,847. APPARATUS FOR REPAIRING TIRES. JAMES W. ARTHUR, Akron, Ohio, assignor to The Williams Foundry & Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 28, 1920. Serial No. 362,098. 7 Claims. (Cl. 18—18.)



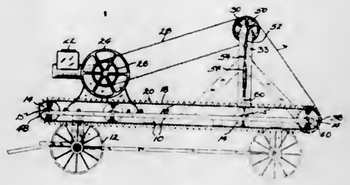
1. Apparatus for repairing the side walls of tires comprising a vulcanizing member, means for engaging one edge of a tire to hold the tire wall in proximity to said vulcanizing member, and a presser bar adapted to penetrate the tire with means for moving it toward and from the vulcanizing member.

1,344,848. SWITCH-ADJUSTMENT HOUSING. ROY RICHARD BAKER, Chicago, Ill. Filed Dec. 13, 1919. Serial No. 344,550. 7 Claims. (Cl. 246—450.)



6. The combination with a switch bar of a pair of semi-cylindrical housing portions pivotally secured to said switch bar, one of said casing portions being arranged to swing above the bar the other of said casing portions being arranged to swing below the bar, and means for locking the casing portions together.

1,344,849. BEET-TOPPER. ASA H. BALLARD, Fort Morgan, Colo. Filed June 23, 1919. Serial No. 306,169. 3 Claims. (Cl. 146—7.)



3. In a beet-topping device, a conveyer having pockets thereon adapted to receive the beets, a knife arranged to reciprocate in synchronism with the movement of said conveyer to remove the tops as the pockets pass the knife, a rod upon which said knife is mounted, a reciprocating rod movable in conjunction with said knife-carrying rod, and having means to engage the beets during the cutting operation, and means for moving the two rods together.

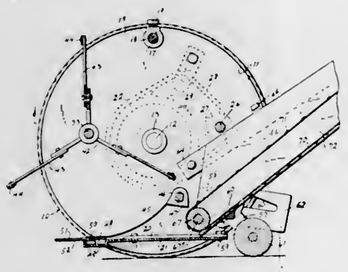
1,344,850. PROCESS OF TREATING DISTILLER'S SLOP. HARRY P. BASSETT, Cynthiana, Ky. Filed July 12, 1919. Serial No. 310,437. 10 Claims. (Cl. 23—24.)

1. A process of treating distillers' slops comprising subjecting them to the action of an alkaline earth metal hydroxid, then to the action of an acid and a salt of a metal adapted to form an insoluble basic salt with acids of the volatile fatty acid series, overcoming the acidity of the treated liquor and separating glycerin therefrom.

1,344,851. PROCESS OF TREATING DISTILLER'S SLOP. HARRY P. BASSETT, Cynthiana, Ky. Filed July 12, 1919. Serial No. 310,438. 10 Claims. (Cl. 23—24.)

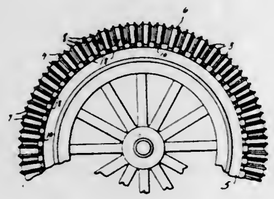
1. A process of treating distillers' slops comprising subjecting them to the action of an alkaline earth metal hydroxid, then to the action of an acid, removing formic and acetic acids from the treated liquor, adding a salt of a metal adapted to form an insoluble basic salt with acids of the volatile fatty acid series, overcoming the acidity of the treated liquor and separating glycerin therefrom.

1,344,852. LAWN-MOWER. NOAH J. BECKNER, Yakima, Wash. Filed May 7, 1919. Serial No. 295,273. 8 Claims. (Cl. 56—259.)



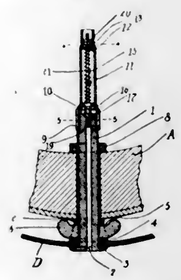
8. A lawn mower of the character described comprising oppositely disposed traction wheels having inwardly extending flanges and stub shafts, oppositely disposed, spaced disks loosely mounted upon the stub shafts and fitting the flanges and operatively connected to each other, oppositely disposed shafts mounted upon said disks, a pair of sprocket wheels carried upon each of said shafts and disposed between the disk and the corresponding traction wheel, operative driving connections between the two sprocket wheels, driving wheels mounted upon the stub shafts and operatively geared with one of said sprocket wheels, a cam shaft carried upon one of the disks and operatively geared to one of said sprocket wheels, a reel mounted upon the shaft of the other pair of sprocket wheels, a channeled member mounted upon the disks and extending thereacross, a pair of knife bars carrying two sets of cutting knives disposed in said channeled member and having heads, a sinuous cam carried upon said cam shaft engaging said head to cause a reciprocation of the cutting bar in relatively opposite directions, an apron adjustably mounted upon the disks and extending over said channeled member and the knives mounted upon said knife bars, said reel acting to shift the cut material, upward and rearward on said apron, and handle bars operatively connected to the disks.

1,344,853. TRACTION AND ANTISKIDDING DEVICE FOR AUTOMOBILES. JOSEPH BELANGER, Butte, Mont. Filed Dec. 6, 1919. Serial No. 342,932. 1 Claim. (Cl. 152—16.)



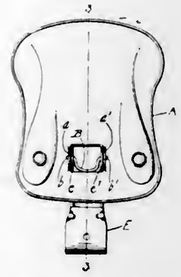
A device of the character described comprising a plurality of substantially U-shaped spaced shoes adapted to conform to the shape of an ordinary pneumatic tire, spaced traction ribs on said shoes, adapted to engage the road surface, said ribs being enlarged at their extremities and provided with apertures in said enlargements, apertured spacing blocks between said enlargements, apertured of adjacent shoes, securing means adapted to pass through the apertures in said ribs and blocks, and adjustable means connecting the ends of said chains together.

1,344,854. TIRE-VALVE. ANTON C. BERG, White Bear, Minn. Filed Oct. 9, 1919. Serial No. 329,531. 3 Claims. (Cl. 152—11.5.)



1. A tire valve comprising a threaded tubular member, a tubular open top valve casing adapted to be removably screwed telescopingly on said tubular body member, a stem valve to close the end of the tubular body member, said valve being mounted in such a manner as to be held resiliently under stress in said casing to move as a unit therewith but yieldable to pressure longitudinally therein, said mounting including adjustment means on the valve stem for varying the force of said stress, said stem being projectable through said open top to expose said adjustment means to facilitate operation thereof.

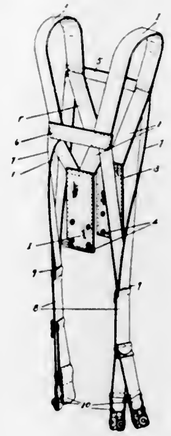
1,344,855. CASKET-HANDLE. ALBERT R. BETTS and PAUL J. GOKE, Cincinnati, Ohio, assignors to The Cincinnati Coffin Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 6, 1919. Serial No. 336,049. 1 Claim. (Cl. 16—103.)



In a handle of the class described the combination of a lug-plate having an aperture, inwardly projecting perforated lugs at the ends of the aperture, a handle having at one end perforated lugs adjacent to the lugs of the lug-plate, and a wire having straight ends and a central off-set adapted to be compressed to facilitate insertion of its ends through the perforations.

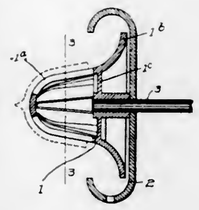
1,344,856. GARMENT-SUPPORTER. GERTRUDE R. BONEBRIGHT, Grand Rapids, Mich. Filed May 15, 1919. Serial No. 297,317. 1 Claim. (Cl. 241—4.)

In a garment supporter, the combination of shoulder straps obliquely and centrally extended to a diaper supporting strap at front and back, cross straps at front and back to keep the shoulder straps in proper spaced relation, a loop strap with central depending portion at each



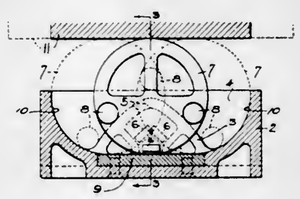
side, the opposite ends of which are secured to the shoulder straps, and a stocking supporter on a suitable runner on each of said depending portions, coacting substantially as described for the purpose specified.

1,344,857. LEMON-JUICE EXTRACTOR. JOSEPH W. BRENKERT, San Diego, Calif. Filed Sept. 4, 1917. Serial No. 189,464. 1 Claim. (Cl. 100—49.)



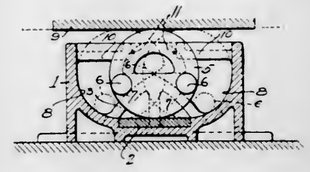
In a lemon juice extractor, a revoluble bell shaped hollow member provided with a plurality of slots in the front end converging backwardly adapted to receive the lemon seeds and a spider with angle arms forming a fan whereby suction is provided for drawing the lemon juices backwardly.

1,344,858. SIDE BEARING FOR CARS. VINCENT J. BURRY, Chicago, Ill., assignor to Joliet Railway Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1917. Serial No. 180,803. 4 Claims. (Cl. 64—64.)



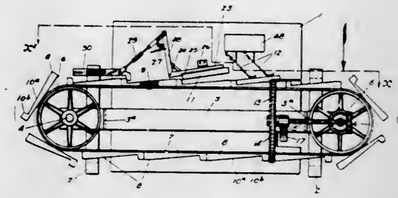
1. A roller bearing for railway cars comprising a housing, a single roller in said housing, single faced guides at opposite sides of said housing having upwardly converging guide faces, projections on each end of said roller at opposite sides of said guides, and means for controlling the rolling movement of said roller to less than a complete revolution in either direction.

1,344,859. SIDE BEARING FOR CARS. VINCENT J. BURRY, Chicago, Ill., assignor to Joliet Railway Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1917. Serial No. 198,255. 3 Claims. (Cl. 64—64.)



1. A roller bearing for railway cars comprising a housing, a single roller in said housing, single faced guides at opposite sides of said housing having converging guide faces, two projections at each end of said roller on opposite sides of said guides and coöperating respectively with said guide faces, and overlying portions extending over said projections when in normal position, and having openings between the same for the insertion of said projections.

1,344,860. BLOCK-MAKING MACHINE. GROVER C. CABLE, Long Beach, Calif. Filed June 18, 1919. Serial No. 305,071. 11 Claims. (Cl. 143—10.)



1. A wedge block making machine including a movable support, a series of carriers mounted upon the movable support and each formed with a block receiving seat having a face arranged at an angle to the direction of movement of the support, a block feeding pusher, yielding means normally holding the pusher in inoperative position, and trip means actuated by the movements of the support for automatically moving the pusher into operative position and releasing the same.

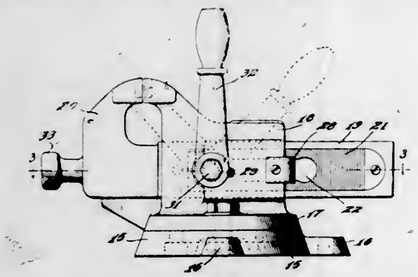
1,344,861. PAINT COMPOSITION. DANIEL CAMPBELL, Baltimore, Md. Filed Apr. 3, 1919. Serial No. 287,258. 1 Claim. (Cl. 134—51.)

The within described paint composition consisting of asphalt, rosin, crude oil, linseed oil and metallic brown, mixed in the manner and approximately the proportions specified, substantially as described.

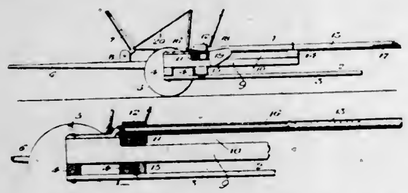
1,344,862. VISE. CLARENCE G. CASHMAN, Waynesboro, Pa., assignor of one-half to John B. Eader, Waynesboro, Pa. Filed July 30, 1919. Serial No. 314,225. 13 Claims. (Cl. 81—26.)

7. A vise comprising a housing, a jaw, beam freely slidable within the housing and provided with a rack, a clutch disposed within the housing and provided with

teeth proportioned to interengage with the teeth of the rack, a spring tending to hold the clutch normally and yieldingly out of engagement with the rack, a shaft journaled within the housing and provided with a double cam adapted to move the clutch upon a rotary movement of the shaft in either direction, and means to apply power to the shaft.

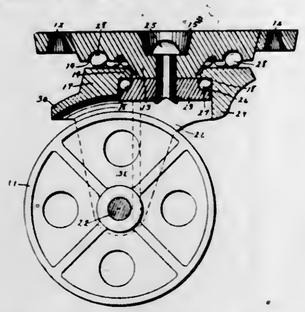


1,344,863. HAY-SWEEP. JAY JEROME CHAMPLIN, Laurel, Nebr. Filed Feb. 7, 1920. Serial No. 357,094. 10 Claims. (Cl. 56—395.)



9. In a hay sweep, a slidable sweep bar having telescopic guiding means, automatic means for locking said slidable sweep bar in its normal position, hay gathering teeth, a rearwardly extending tiltable platform to regulate the distance between the hay gathering teeth and the ground.

1,344,864. BALL-BEARING SWIVEL-CASTER. JOHN LOUCIEN CHESNUTT, Kansas City, Mo., assignor to the Service Caster & Truck Company, Kansas City, Mo., a Corporation of Missouri. Filed Apr. 12, 1919. Serial No. 289,485. 3 Claims. (Cl. 16—73.)

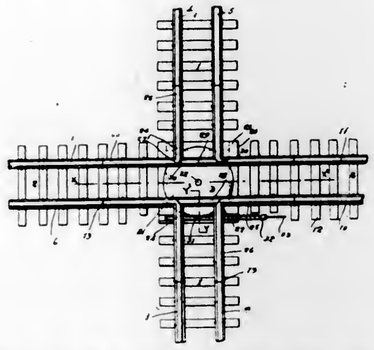


2. A swivel caster, comprising a wheel-carrying member having a supporting wheel journaled therein, said member being formed with an opening in its top having an inwardly projecting peripheral flange, a top plate adapted to be secured to a load object, said top plate being formed with an integral hub projecting within the opening of the wheel-carrying member, said hub being formed with a flat lower face, a keeper plate mounted within the opening of the wheel-carrying member and having a flat upper face contacting with and riveted to said hub, said top plate being formed with an annular ball race in its lower face, bearing balls in said race contacting a plane upper portion of said wheel-carrying member, and bearing balls between said keeper plate and the flange of the wheel-carrying member.

1,344,865. COMPOSITION FOR APPLICATION TO RAZOR-STROPS. WILLIAM G. COOPER, Sapulpa, Okla. Filed July 21, 1919. Serial No. 312,280. 2 Claims. (Cl. 51—1.)

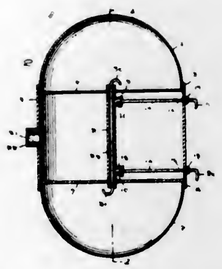
2. A composition for the purpose stated comprising a mixture of quicksand dust two parts, emery dust two parts, Venetian red one part, and plaster cement one part.

1,344,866. THROUGH-RAIL DIAMOND. HUGH ALEXANDER COULTER, Winnipeg, Manitoba, Canada, assignor to W. M. Macphail and M. J. K. Allen, Winnipeg, Manitoba, Canada. Filed Apr. 9, 1919. Serial No. 288,674. 2 Claims. (Cl. 246—375.)



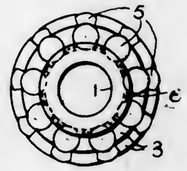
1. The combination with intersecting main line rails, of a through rail diamond interposed at the intersection of the main line rails and comprising a stationary bed plate, a disk pivotally mounted on the bed plate and countersunk in the upper face thereof, lead rails permanently secured to the bed plate and having their outer ends extending from the bed plate and communicating with the main line rails and their inner ends overhanging the disk and cut at an angle other than a right angle, a pair of connecting rails permanently mounted on the disk and having their ends cut complementary to the inner ends of the lead rails with which they are designed to connect and means for turning the disk to bring the connecting rails into through rail position with the lead rails.

1,344,867. MINER'S LAMP. ANTHONY COYNE and LEE HASH, Fork Ridge, Tenn. Filed Apr. 19, 1917. Serial No. 163,149. 1 Claim. (Cl. 48—4.)



An acetylene lamp comprising a water reservoir having opposite walls, a pair of opposite carbid chambers detachably secured to said walls, a tube connecting said walls and establishing communication between said chambers, a burner tube leading from said tube to the exterior, a water feed pipe connecting said walls, and having openings near its opposite ends adjacent to said walls communicating with the water reservoir, valves for said openings having operating means extending to the exterior of the water reservoir, and an air vent for the water reservoir extending close to said walls communicating at one end with the atmosphere near one of said walls and opening at its other end into the water reservoir near the other wall.

1,344,868. ROLLER JOURNAL-BEARING. THOMAS CROWE, Hamilton, Ontario, Canada. Filed July 24, 1919. Serial No. 313,029. 3 Claims. (Cl. 64—62.)

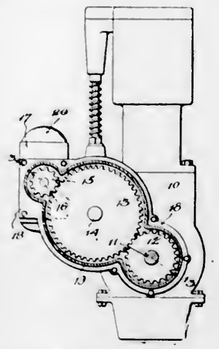


1. In a roller bearing, the combination with the outer and inner races, of conical rollers, an annular member having a plurality of notches constituting sockets for the rollers, said annular member being formed up to a cone frustum by external pressure after insertion of the rollers into the sockets.

1,344,869. ELECTROLYZING COBALT SOLUTIONS. ELISHA BARTON CUTTEN, Kokomo, Ind. Filed Oct. 20, 1919. Serial No. 331,966. 4 Claims. (Cl. 204—57.)

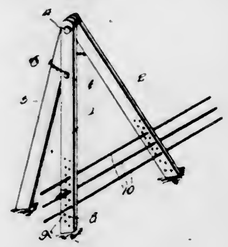
2. The method of depositing cobalt which includes electrolyzing a solution of sulfate of cobalt, and maintaining the neutrality of the electrolyte by the action of a reagent that forms an insoluble and innocuous precipitate with the liberated sulfuric acid radical.

1,344,870. ENGINE-STARTING SYSTEM. JAMES K. DELANO, New York, N. Y. Filed Dec. 9, 1916. Serial No. 136,114. 3 Claims. (Cl. 290—35.)



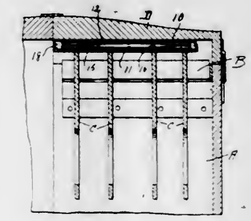
1. The combination with an internal combustion engine having a housing and a crank shaft projecting outside said housing, of a pinion on the outer end of said shaft, a half-time or cam shaft for said engine, a dynamo-motor having a housing and an armature shaft extending outside the last-mentioned housing, a pinion on the outer end of said armature shaft, a gear on said half-time shaft arranged to mesh with both said pinions, the gearing being arranged to provide a fixed speed ratio between the armature and crank shafts whether the engine or the dynamo motor is driving, and means for rigidly connecting the engine housing and dynamo-motor housing and inclosing said gearing.

1,344,871. SKIRT EVENER, TUCKER, HEMMER, AND MARKER. CARRIE M. DRAKE, Fort Dodge, Iowa. Filed May 21, 1919. Serial No. 298,686. 6 Claims. (Cl. 33—9.)



1. A skirt measure comprising elements converging upward to a point of union and pierced with rows of perforations equally spaced from the lower ends of the elements and from each other, and gage rods adapted to be passed through alined perforations.

1,344,872. HANGER-RETAINING DEVICE FOR WARDROBE-TRUNKS. WILLIAM W. DUNN, Henderson, N. C., and JOHN H. BEASLEY, Norfolk, Va., assignors to Seward Trunk and Bag Company, Petersburg, Va., a Corporation of Virginia. Filed Aug. 27, 1919. Serial No. 320,278. 2 Claims. (Cl. 190—13.)

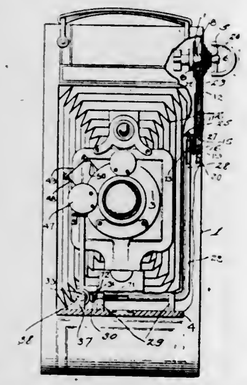


2. A trunk including a hanger supporting section having means therein for supporting a plurality of hangers, a cover section hinged to the hanger supporting section at one end and adapted to extend over the hangers when the trunk is in a vertical position, a hanger retaining plate carried by the cover section, and elliptical springs operatively connected to the retaining plate and to the inside face of the cover section and adapted to urge the hanger retaining plate against the upper edges of the hangers, said springs comprising two reversely bowed spring leaves attached respectively to the plate and the cover section, the ends of one of the spring leaves being slotted and the ends of the coacting spring leaf being reduced in width to form tongues having sliding engagement in said slots.

1,344,873. EXPOSURE-INDICATOR. JOSEPH DUTRA FERRY, Niles, Calif. Filed Aug. 15, 1918. Serial No. 250,053. 7 Claims. (Cl. 95—32.)

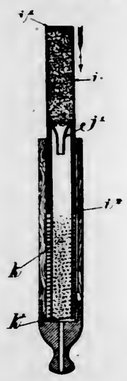
1. A camera comprising a housing; a shaft journaled in the housing; a disk on the shaft and provided with an inclined track, the disk having a curved rib merging into the track and being supplied with a cam track lo-

cated within the inclined track; a sign slidable in the housing; a member slidable in the sign and coöperating with the rib to move the sign in one direction, said member coacting with the inclined track to retract said member, thereby to permit the sign to move in an opposite



direction; spring means for moving the sign in the last specified direction; and a spring coöperating with said member to advance the same for coöperation with the rib, the spring coöperating with the cam track to relieve the action of the spring on said member when the sign moves responsive to the spring means.

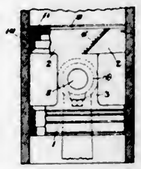
1,344,874. TOBACCO-SMOKING DEVICE. JEAN FLAJOLLET, Lyon, France. Filed May 27, 1919. Serial No. 300,122. 2 Claims. (Cl. 131—22.)



1. A device for smoking tobacco comprising an outer tube open at one end, a detachable mouth-piece closing the other end of said outer tube, a second tube of smaller diameter in said outer tube and extending to said mouth-piece at one end, a funnel shaped member at the other end thereof, a third tube adapted to contain tobacco and slidable in said outer tube between the inner wall thereof and the outer wall of said second tube, an abutment at the outer end of said third tube, and a spring adapted to draw said third tube into said outer tube as the tobacco is consumed, so as to maintain the tobacco at the open end of said third tube as it is being consumed.

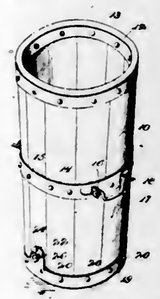
1,344,875. PROCESS OF MAKING PISTONS. JOHN FLAMMANG, St. Louis, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed May 23, 1918. Serial No. 236,190. 10 Claims. (Cl. 29—148.)

1. The process of making a piston which consists in forming a piston body with an upper ring and a lower ring, which are integrally united; splitting the upper ring to form segmental sections having overlapping ends;



and treating the material to close the spaces formed when the upper ring is split in the segmental sections.

1,344,876. REINFORCED ICE-CREAM TUB. BENJAMINE H. FRICK, Ada, Okla. Filed Oct. 16, 1919. Serial No. 331,051. 4 Claims. (Cl. 217—72.)



1. A container of the character described including a container body closed at one end by a bottom wall, a hoop embracing the upper edge of the body, a hoop overlying the angle between the body and the bottom wall, an intermediate hoop encircling the body at a point between the first hoops and having pairs of lugs struck therefrom, and handles mounted to swing upon said pairs of lugs and provided with angularly disposed terminals movable to coact with the intermediate hoop for limiting the handles in their upward swinging movement.

1,344,877. COLLAPSIBLE COOP. HAL P. GALBREATH, Poplar Bluff, Mo. Filed Nov. 30, 1918. Serial No. 264,866. 2 Claims. (Cl. 220—6.)

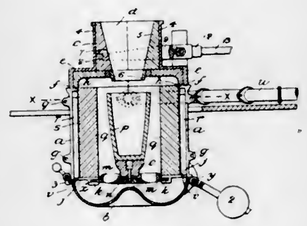


1. A folding coop comprising a base, rods positioned beneath the base and having their end portions carried uprightly and terminating in eyes above the base, a frame extending above and about the base, the frame being formed from a strip of rod material bent to conform to the contour of the base and passing through the eyes, side and end walls having their lower edge portion loosely connected with the frame to pivotally mount the walls, a top having loose connection with one set of walls, and means for releasably connecting the walls when the coop is in a setup position.

1,344,878. SMELTING-FURNACE AND THE LIKE. JAMES GAUNT and DOUGLAS BROOKFIELD, London, England. Filed Dec. 26, 1917. Serial No. 208,886. 4 Claims. (Cl. 263—12.)

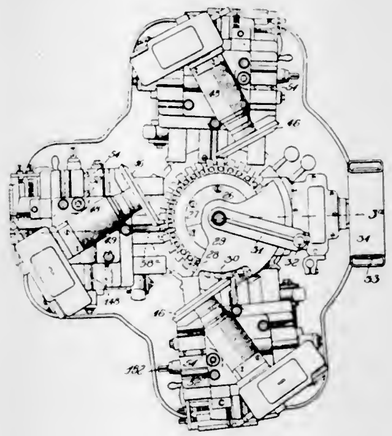
1. A cylindrical casing open at its upper and lower ends and provided on the inner side of its wall with vertical,

radially disposed spaced ribs; a cover on upper end of the casing, a hopper mounted on the cover; a grate, grate-supporting means with which the lower end of the casing is provided; a refractory lining in said casing supported also on said grate-supporting means, and co-acting with said spaced ribs to form a circuitous air conduit around



the lining and to a point below the grate; an air blast pipe connected to the casing, a crucible mounted on the center of the grate, and a detachable closure for the lower end of the casing, said closure being hollowed in its upper side and hence forming a chamber to conduct the air blast from said conduit to the air spaces in the grate.

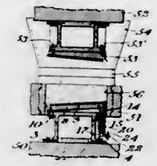
1,344,879. GEAR-CUTTING MACHINE. JAMES E. GLEASON, ARTHUR L. STEWART, and ERNEST C. HEAD, Rochester, N. Y., assignors to The Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 17, 1919. Serial No. 304,883. 22 Claims. (Cl. 90—5)



1. In a gear cutting machine, the combination of a rotary cutter provided with a plurality of tools spaced about its periphery, a plurality of blank supports disposed in spaced relation about the cutter, said tools and supports being relatively spaced and arranged to bring a limited minimum number of the tools into cutting engagement with the blanks at a time, feeding means for effecting relative movements of the blank supports and cutter, and means for indexing the blank supports between feeding movements.

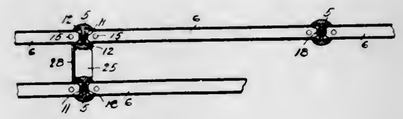
1,344,880. BRICK-MACHINE. HAROLD H. GOE, Anaconda, Mont. Filed Dec. 10, 1918. Serial No. 266,073. 25 Claims. (Cl. 25—102.)

7. In a machine for making taper brick, the combination of an upper die having an inclined surface to produce the taper, a lower die, a die box and yielding means in the die box constructed and arranged to effect, prior to compression, a graded distribution of the material in the die box substantially in accordance with the



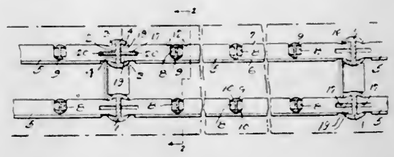
taper of the brick to be formed and to assume, during compression, a position which does not interfere with the formation of the brick.

1,344,881. REINFORCING MEANS FOR CONCRETE STRUCTURES. WILLIAM GOLDIE, Wilkinsburg, Pa. Filed July 10, 1918. Serial No. 244,235. 5 Claims. (Cl. 72—110.)



1. A reinforcing structure for concrete comprising a plurality of substantially parallel main stringer members having dove-tailed grooves extending continuously along either side thereof, a plurality of transverse reinforcing members having their ends expanded into and interlocked between the dove-tailed grooves of said longitudinal members.

1,344,882. REINFORCING STRUCTURE FOR CONCRETE. WILLIAM GOLDIE, Wilkinsburg, Pa. Filed July 10, 1918. Serial No. 244,239. 5 Claims. (Cl. 72—110.)

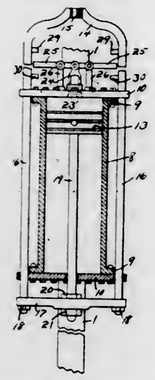


1. In a concrete reinforcing structure, the combination of longitudinal stringers having dovetailed seats extending continuously along their side walls and cross bars having normally dovetailed end portions fitting in said dovetailed seats.

1,344,883. PNEUMATIC PUMP. GEORGE W. GOSS, Lubbock, Tex., assignor to Pneumatic Pump Company, Dallas, Tex. Filed Oct. 22, 1918. Serial No. 259,249. 3 Claims. (Cl. 103—8.)

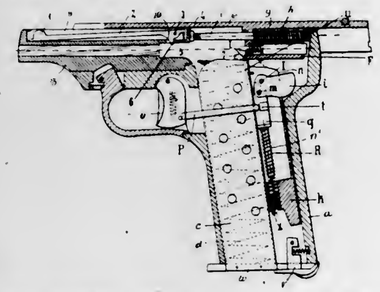
1. A pneumatic pump comprising an intake vessel extending into the water and provided with an intake valve, a water discharge pipe extending into said vessel near the bottom thereof and provided with a check valve above said vessel, an air compressing cylinder attached to said water pipe provided with an intake valve at the upper end, levers operatively connected to said air intake valve, an air feed pipe leading from the upper end of said cylinder to said intake vessel, a piston in said air compressing vessel provided with a plunger rod projecting

through the bottom of said vessel, a yoke for vertically reciprocating said piston provided with a cross bar en-



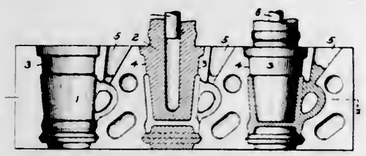
gaging said plunger rod, and means on said yoke for automatically actuating said levers.

1,344,884. AUTOMATIC PISTOL. JEAN NICOLAS HENRI JOSEPH GUYOT, Paris, France. Filed June 6, 1919. Serial No. 302,284. 1 Claim. (Cl. 42—3.)



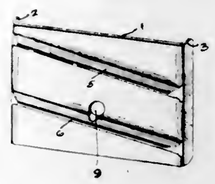
In an automatic pistol, the combination, with the handle, the trigger, and the slide, of a hollow carrier disposed within the handle; a hammer pivoted in said carrier and cocked by the rearward movement of the slide; a spring-actuated, hammer-operating member within said carrier pivoted to the hammer at a point below the first-named pivot, whereby when the two pivots are disposed in vertical alinement with each other and with the actuating spring the hammer will be held in cocked position by the pressure of said spring; a lug on said operating member; and a connecting rod pivoted at one end to the trigger and adapted to bear against said lug at its other end, so as to push the operating member rearward when the trigger is pulled and thereby disaline the two pivots, to permit said actuating spring to operate the hammer.

1,344,885. METHOD OF MANUFACTURE OF CLAY MUGS, &c. ROBERT T. HALL, East Liverpool, Ohio. Filed Mar. 18, 1920. Serial No. 366,794. 1 Claim. (Cl. 25—156.)



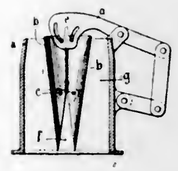
The method herein described of forming hollow articles from clay which consists in filling the matrix formed by a mold and core of liquid absorbent material, with liquid clay, and forcing a gaseous fluid through the core to relieve the grip of the hardening clay on the core.

1,344,886. LADDER-STEP SUPPORT. DURWARD B. HAMPTON, Napa, Calif. Filed Dec. 24, 1919. Serial No. 347,136. 5 Claims. (Cl. 228—58.)



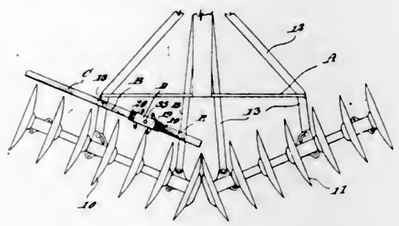
1. A ladder step support comprising a metal plate having a pair of parallel embossments, substantially cuneiform in cross section, formed integrally therein and forming a socket for receiving an end of a ladder step.

1,344,887. LOCOMOTIVE BLAST-PIPE. EMILE HARLET, Fives-Lille, France. Filed Apr. 10, 1919. Serial No. 289,086. 5 Claims. (Cl. 162—8.)



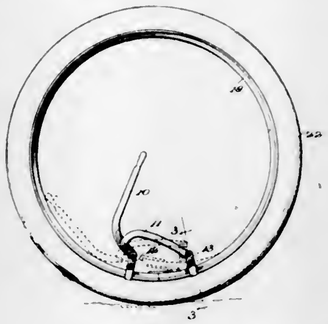
1. A steam blast pipe of the character described, having arranged within it a pair of coacting valves, at least one of which is movable relatively to the other to open or close a central steam passage through them; said valves also providing a constantly open, annular steam passage between them and the wall of the pipe; and means for operating the movable valve.

1,344,888. DISK-SHARPENER. WILLIAM R. HEGGS, Merino, Colo. Filed Dec. 19, 1919. Serial No. 346,011. 7 Claims. (Cl. 97—77.)



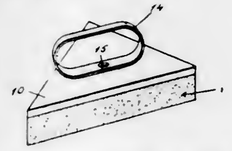
1. The combination with a harrow including a frame, and a gang of disks, of an attachment therefor including a bar arranged in spaced parallel relation to the gang of disks, adjustable clamps carried by the bar for engaging the frame, a block carried by the bar and adjustable longitudinally on the frame, sharpening elements carried by the opposite ends of the block and arranged to engage the opposite faces of any one of the disks, and spring means carried by the block and arranged to engage the sharpening elements to hold the same in engagement with the disk.

1,344,889. RIM-CONTRACTOR. CHARLES C. HEITMILLER, Seattle, Wash. Filed Sept. 5, 1919. Serial No. 321,816. 1 Claim. (Cl. 157—1.)



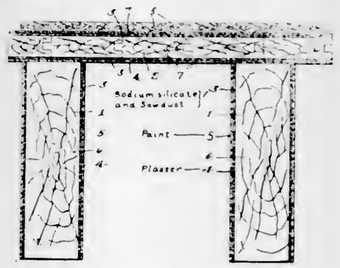
In a rim contracting device, the combination with rim clamps having adjustable rim engaging jaws, of a lever having its forward portion curved longitudinally and pivoted to one of said clamps, and a link having one end portion pivoted to one of said clamps and the other end portion curved longitudinally and pivoted to the curved portion of said lever, the curved portion of said link being adapted to overhang one of said clamps when the lever is moved to an operative position at one side of the clamps.

1,344,890. WINDOW-POLISHER. MARY L. HENRY, Jacksonville, Ill. Filed Apr. 6, 1920. Serial No. 371,622. 1 Claim. (Cl. 15—59.)



A window polisher comprising a back formed as an equi-lateral triangle in shape, and a felt pad secured upon the underside of the back and conforming in size and shape thereto, said pad being formed of three strips of felt secured upon the underside of the pad in parallel relation to and in registration with the edges thereof and having their meeting ends mitered, and a series of felt strips extending in parallel relation and confined between said first named strips with their sides secured together.

1,344,891. PROCESS OF TREATING TIMBER. HENRY K. HESS, Syracuse, N. Y. Filed Oct. 11, 1918. Serial No. 257,786. 6 Claims. (Cl. 91—68.)



3. The process of treating lumber consisting in applying a coat of sodium silicate and sawdust.

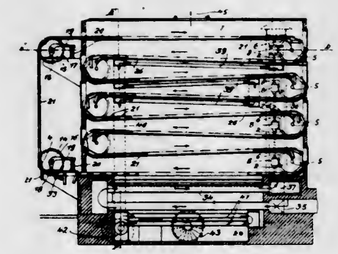
4. The process of treating lumber consisting in applying a coat of sodium silicate, applying to said coat a layer of sawdust sufficient to absorb the excess sodium silicate not absorbed into the lumber.

1,344,892. SPARK-PLUG. MICHAEL HOFFMANN, Ivanhoe, Minn., assignor of one-half to F. R. Klueczny, Ivanhoe, Minn. Filed May 16, 1919. Serial No. 297,569. 2 Claims. (Cl. 123—169.)



1. A spark plug, comprising a shell, an insulating element within the shell, a gland threaded to the shell and confining the insulating element therein, insulating elements closing the outer end of the shell and gland, an electrode passing through the gland, shell and the inner and outer insulating elements, means applied to opposite end portions of the electrode for securing the end insulating elements, and an electrode at the inner end of the shell coöperating with the inner end of the electrode passing through the shell and gland to form the spark gap wholly beyond the insulating element at the inner end of the shell.

1,344,893. APPARATUS FOR DRYING GOODS IN LAYERS. ALFRED HOFMANN, Zurich, Switzerland. Filed Oct. 31, 1918. Serial No. 260,559. 7 Claims. (Cl. 34—12.)

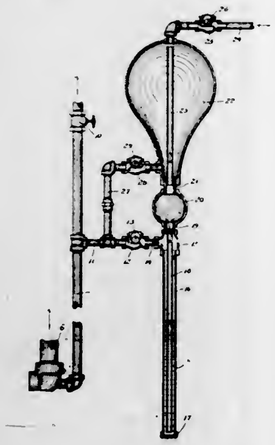


7. A drying apparatus, including in combination, a drying chamber, driving wheels at one end of the chamber, guide wheels at the other end of the chamber, stationary guides between the wheels, an endless conveyer operating over the wheels and guides so as to have a plurality of zig-zag runs within the chamber, spring tensioned angle-armed levers pivotally mounted exteriorly of the chamber, guide wheels mounted on the pivots of the levers and over which the conveyer passes, conveyer frames pivotally suspended from the conveyer, and means to effect tilting and discharging of the frames at points beyond the centers of the first mentioned guide and driving wheels.

1,344,894. AUTOMATIC VAPORIZER FOR HOT-WATER HEATING SYSTEMS. MARTIN HOUCK, Minneapolis, Minn., assignor to Vacuum Heat Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 29, 1917. Serial No. 145,110. 4 Claims. (Cl. 137—53.)

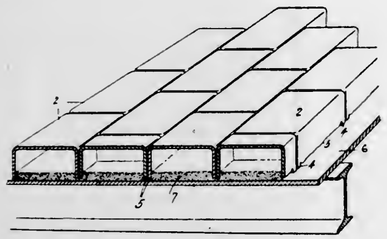
1. The combination with a hot water heating system including a boiler, of a trapping chamber open to the atmosphere, a discharge pipe connecting the water circulating system to said trapping chamber, and a check valve in said discharge pipe arranged to permit flow from the

circulating system to said trap but to check a reverse flow, whereby the weight of the column of liquid in said trap-



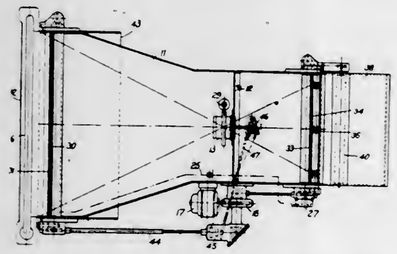
ping chamber is prevented from re-acting on the circulating system when the pressure in the system approximately at the altitude of the trap is below atmospheric.

1,344,895. PAVING-BLOCK. ROBERT H. IRONS, Harrisburg, Pa. Filed June 5, 1919. Serial No. 301,952. 4 Claims. (Cl. 94—11.)



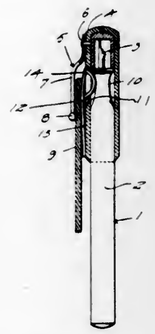
1. A hollow unfilled paving block consisting of a box of regular shape having the bottom open and provided with means for furnishing communication with the interior of the block when the block is in position.

1,344,896. COPYING-CAMERA. AUGUST F. JOBKE, Detroit, Mich. Filed May 8, 1919. Serial No. 295,534. 10 Claims. (Cl. 88—24.)



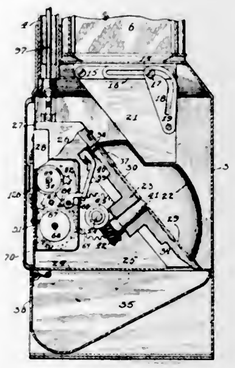
1. In a photographic apparatus a dark chamber with openings at the two ends for the admission and passage of light, two pairs of friction rollers at each end placed in parallel planes of contact at conjugate focal distances, a lens and lens board separating the said chamber into two light-proof compartments and means, including an electric circuit through the two pairs of friction rollers propelling the medium to be copied, to control the feed by the set of friction rollers propelling the sensitive copying medium.

1,344,897. FOUNTAIN-PEN-LOCKING CLIP. DAVID F. JOHNSON, Fort Washington, Md. Filed Oct. 8, 1919. Serial No. 329,298. 6 Claims. (Cl. 24—11.)



1. A locking clip comprising a locking element carried by the cap of the pen, and a clip overlying the locking element and secured to the cap and adapted to force the locking element into engagement with the body of the pen when the clip is placed over the wall of a pocket.

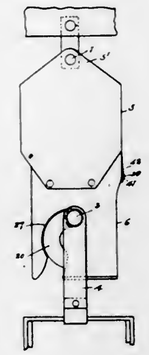
1,344,898. COIN AND TICKET FARE BOX AND REGISTER. JAY M. JOHNSON, Chicago, Ill., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill., a Corporation of New York. Filed Nov. 16, 1914. Serial No. 872,343. 102 Claims. (Cl. 235—32.)



27. In a device of the class described a fare register, a passenger register, mechanism for actuating both registers by the coin fares received and mechanism adapted to cut out said mechanism and register to the passenger register for ticket fares.

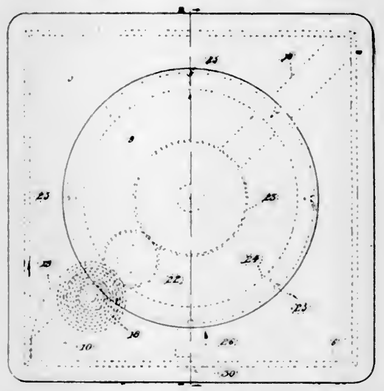
1,344,899. SAFETY-HITCH. RUDOLPH O. JUNEK, Esterhazy, Saskatchewan, Canada. Filed Oct. 4, 1919. Serial No. 328,574. 7 Claims. (Cl. 213—67.)

1. A safety hitch comprising a stationary front casing, a forwardly and rearwardly movable rear casing associated with the front casing and extending rearwardly there-beyond, load carrying compression springs inserted between the casings and normally resisting the rear movement of the rear casing, a normally locked rotary load



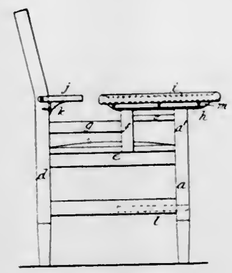
pulling disk carried by the rear end of the rear casing and adjustable means actuated by the back movement of the rear casing designed to unlock the disk to release the load upon a predetermined compression being built up in the springs.

1,344,900. SELF-SERVING TABLE. GEORGE JURESISIN, Wilkes-Barre, Pa. Filed Sept. 19, 1919. Serial No. 324,792. 1 Claim. (Cl. 45—26.)



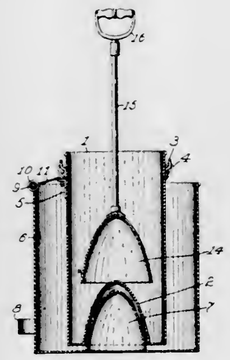
A self-serving table comprising a stationary table top, a bar arranged parallel to the table top and positioned beneath the same, said table top having a central opening therein, a socketed block centrally mounted upon said bar, a standard journaled in said block, a rotatable plate secured to the upper end of said standard and lying within the table top opening flush with the upper surface of the table top, means for rotating the plate, means for arresting movement thereof, said plate rotating means including a vertical rotatable standard journaled between the stationary table top and bar, a gear fixed to said standard, a band spring having one end secured to said standard and the other end secured to the table frame, a key for placing the band spring under tension, a gear fixed to the plate supporting standard, an intermediate gear positioned between the aforesaid gears, and coöperating means carried by the stationary table top and rotatable plate for holding the plate immovable.

1,344,901. LUNCH-CHAIR. ROBERT M. KEATING, Springfield, Mass. Filed Feb. 14, 1918. Serial No. 217,229. 3 Claims. (Cl. 155—34.)



1. In a lunch chair, the combination of a suitable frame having a back and substantially vertical front legs, one of such legs extending above the seat portion of said frame, a tray-supporting member mounted on said extended front leg, a tray mounted on said supporting member therefor, and an arm rest secured to said back behind said tray, the construction and arrangement being such that there is a clear space all around the edge portions of both said tray and its support, below as well as above.

1,344,902. CREAM AND MILK AERATOR. GEORGE W. KENNEDY, Waterloo, Iowa. Filed Sept. 29, 1919. Serial No. 327,145. 2 Claims. (Cl. 259—48.)

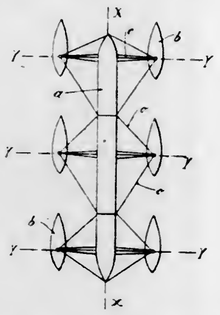


1. A device of the character described, comprising a cooling-receptacle, a cream-containing can within said cooling receptacle, and loosely linked means therebetween for permitting a slight vertical reciprocation of the cream-containing can.

1,344,903. APPARATUS FOR SEA NAVIGATION. SIMON KOIRANSKY, Lyon, France. Filed May 16, 1918. Serial No. 234,905. 8 Claims. (Cl. 114—61.)

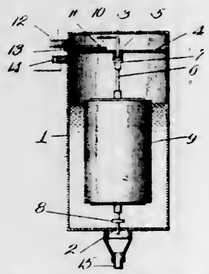
1. An apparatus for sea navigation comprising in combination a superstructure, floats, pivotally mounted levers connecting the floats to the superstructure and shock

absorbing members mounted on the superstructure and engaging with the levers, the shock absorbing members



being adapted to act upon the levers with a leverage shorter than that of the floats.

1,344,904. WATER-LEVEL-SIGNALING ATTACHMENT FOR MOTOR-CARS. HERBERT W. KNAPP, Kansas City, Mo. Filed May 14, 1917. Serial No. 168,618. 1 Claim. (Cl. 200—84.)



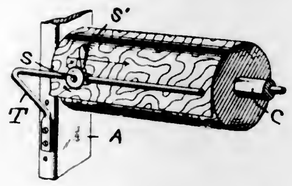
In a water level signaling attachment for motor cars and the like, a vessel provided with a bottom opening, a partition provided with an opening vertically above said bottom opening, a vertical rod extending through said bottom opening and the opening of the partition and provided with a laterally-projecting spring contact 10, a valve secured to said rod for closing or opening the opening in the partition from below the same, a float secured upon said rod within the vessel for imparting closing movement to said valve when the vessel contains the requisite quantity of water and for opening said valve when the water level falls below the requisite quantity, a pair of binding posts secured to the vessel one in electrical connection therewith and the other insulated therefrom, and a contact 11, extending from the last-named binding post into the vessel above the partition thereof, for engagement by contact 10, when the float falls below a predetermined level.

1,344,905. METHOD OF PRODUCING SULFUR DIOXID. FREDERICK LAIST and FREDERICK F. FRICK, Anaconda, Mont. Filed June 9, 1919. Serial No. 302,846. 7 Claims. (Cl. 23—1.)

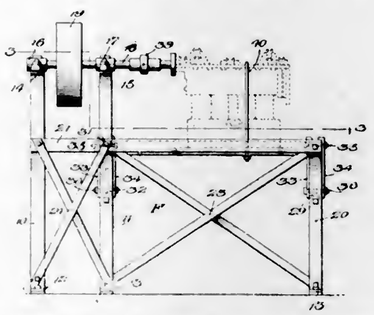
1. Method of producing sulfur dioxid of high concentration, comprising preparing a gaseous mixture consisting essentially of sulfur dioxid and oxygen, and reacting therewith on a sulfur-bearing material.

1,344,906. PAPER-HANGING DEVICE. NATHAN H. LAMB, Fallon, Mont. Filed Mar. 4, 1919. Serial No. 280,602. 1 Claim. (Cl. 164—73.)

In combination with the frame of a paper hanging apparatus, a bail shaped member secured thereto, and having an end which is disposed at an angle to the frame, a sleeve movable upon said member and having an integral handle projecting therefrom, and a stub shaft also projecting from the sleeve at right angles to said handle, and a cutter disk mounted upon said stub shaft.

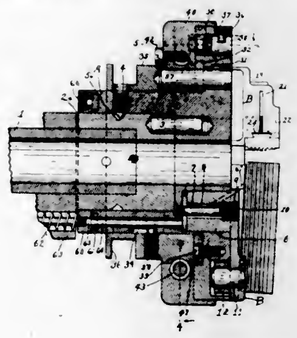


1,344,907. RUNNING-IN MACHINE FOR GASOLENE-MOTORS. ROBERT E. LAND, Albany, Ga. Filed June 9, 1919. Serial No. 302,812. 4 Claims. (Cl. 29—1.)



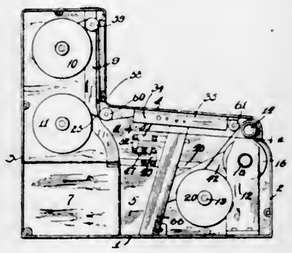
1. Apparatus of the character described including in combination, a frame, a driven shaft mounted on said frame, means to support a hydrocarbon motor on said frame with its crank shaft uppermost and substantially in alinement with said driven shaft, said means being adjustable vertically and transversely of the frame, and means to connect said driven shaft to the motor shaft.

1,344,908. CUTTER-HEAD. ABRAHAM B. LANDIS, Enfield, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Jan. 6, 1919. Serial No. 269,835. 18 Claims. (Cl. 10—100.)



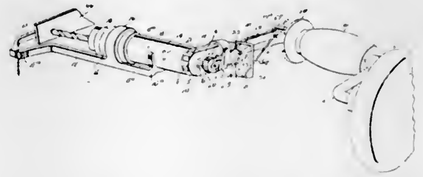
1. A cutter head comprising a body, cutter holders pivotally secured on the face of said body, cutters mounted in said holders forming a cutting die, a ring mounted on said body, said ring connected with each of said cutter holders by pivotal links and means for moving said rings circumferentially for opening and closing said die.

1,344,909. RECORDING AND VENDING MACHINE. JOHN E. LEDERMAN, Chicago, Ill., assignor, by mesne assignments, to Julius Keller, Jr., Philadelphia, Pa. Filed Aug. 30, 1917. Serial No. 188,944. 14 Claims. (Cl. 282—16.)



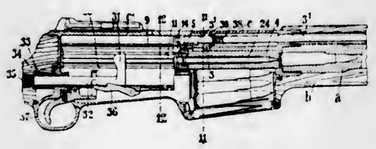
3. In a vending machine, the combination of a casing having an opening, means for supplying and supporting dispensable and record tapes in superimposed relation at the opening so as to be written upon, a door for closing the opening, means inside the casing for moving the door to close the opening, coin controlled mechanism for holding the door closed, and mechanism controlled by said door operating means for advancing the tapes step by step and issuing the dispensable tape from the casing.

1,344,910. ATTACHMENT TO CARPENTERS' AND SIMILAR HAND DRILLING-BRACES. PHILIP JOSHUA LE SUEUR, Brighton, England. Filed Jan. 10, 1916. Serial No. 71,371. 3 Claims. (Cl. 77—7.)



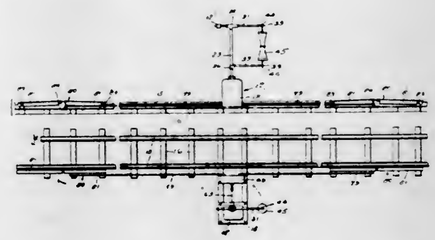
1. In a drilling brace, in combination, a brace frame, an attachment having a grooved drill socket suitably secured to the outer end of the brace frame, a drill having a suitable drill shank for engaging said drill socket, said attachment having a threaded hole extending longitudinally into the attachment from its inner end and connecting with the drill socket, a feed screw provided with a ratchet wheel engaging said threaded hole, a lever carrying ratchet mechanism suitably engaging said feed screw and the ratchet wheel, and means on the hand grip carried by the crank of the brace for engaging said lever and rotating said feed screw.

1,344,911. BREECH-ACTION FOR FIREARMS. ISAAC NEWTON LEWIS, London, England. Filed Mar. 24, 1915. Serial No. 16,599. 13 Claims. (Cl. 42—3.)



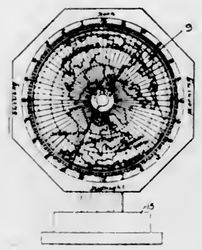
1. Breech mechanism for firearms, comprising a breech block consisting of a main portion and a locking piece carried thereby, said main portion and locking piece having coöperating parts interlocked by a predetermined relative rotational movement of the main portion and locking piece, and movable breech opening and closing means co-acting with said locking piece and adapted to impart rotational locking and unlocking movements thereto less in extent than the aforesaid predetermined movement, said locking piece when in locking position co-acting with parts on the breech chamber.

1,344,912. MAIL-BAG CRANE. EVERETT G. LIVESAY, Princeton, W. Va., assignor, by mesne assignments, to Safety Mail Crane Company, Charleston, W. Va., a Corporation of West Virginia. Filed Apr. 7, 1919. Serial No. 287,959. 9 Claims. (Cl. 258—8.)



2. In a mail bag crane of the character described, a casing, an upstanding post operating within the casing and projecting above the same, mail bag handling means connected with the upper portion of the post, a horizontally swing crank connected with the post and arranged within the casing, horizontally swinging carriers arranged within and secured to the casing and positioned upon opposite sides of the crank, flexible elements connected with the crank and passed about the pulleys, springs secured to the flexible elements, weights carried by said springs and means to normally hold the post against turning movement.

1,344,913. CLOCK. JOHN T. LONG, San Diego, Calif. Filed Nov. 7, 1918. Serial No. 261,540. 2 Claims. (Cl. 58—43.)



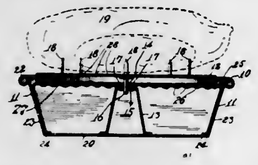
1. In a clock of the class described the combination with an ordinary clock works, of a shaft at right angles to the hour hand shaft, means operatively connecting said shaft with the hour hand shaft whereby the speed is reduced one-half, a disk secured on each end of said shaft, a map of the Northern Hemisphere secured on the outer surface of one disk, a map of the Southern Hemisphere secured on the outer surface of the other disk, a hand secured to each of said disks by frictional contact and extending radially from the center, a casing supporting said clock works provided with a dial with the numerals 1 to 12 on each half circumference of said dial, the numerals on the side on which the Southern Hemisphere is located running in clockwise direction and those on the opposite side running in anticlockwise direction.

1,344,914. PIPE-COUPLING. WILLIAM LOUDEN, Fairfield, Iowa. Filed Nov. 10, 1919. Serial No. 337,084. 10 Claims. (Cl. 285—197.)



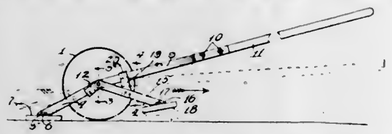
1. In pipe couplings the combination of a plurality of coupling members adapted to be inserted in adjoining ends of pipe sections and means to hold the members in connecting contact with the inner surfaces of the ends of the pipes.

1,344,915. MEAT-ROASTER. HARRY LOVE, Staten Island, N. Y. Filed May 9, 1918. Serial No. 233,488. 7 Claims. (Cl. 53—5.)



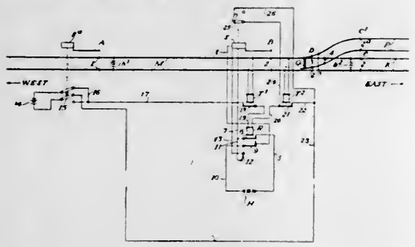
1. A meat roaster comprising a supporting frame, a stand secured thereto and a turn table rotatably mounted on said supporting frame and stand, said supporting frame having a perforated corrugated top surface, the corrugations adapted to provide channels through which the meat juices may flow.

1,344,916. CONCRETE-SURFACE-FINISHING MACHINE. PETER C. MCARDLE, Chicago, Ill. Filed Oct. 26, 1918. Serial No. 259,795. 5 Claims. (Cl. 94—50.)



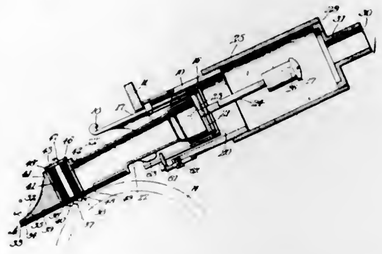
1. A rolling and finishing device, comprising a roller mechanism, an axle projecting therethrough, finishing mechanisms connected therewith, and means on said axle and engaging said finishing mechanisms for simultaneously moving said roller and adjusting said finishing mechanisms.

1,344,917. RAILWAY SIGNALING. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1919. Serial No. 283,407. 11 Claims. (Cl. 246—46.)



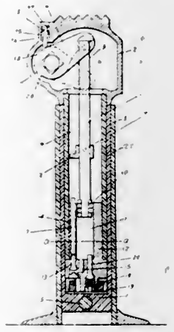
3. In combination, two adjoining sections of railway track, a track circuit for each section, a signal located adjacent the junction of said sections and governing traffic through the forward section, means for controlling said signal by the track circuits for both sections, and means for removing said signal from control by the track circuit for the rear section when the signal indicates proceed.

1,344,918. COMBINED TELEPHONE AND PHONOGRAPH. JOHN F. MALTHANER, Atlanta, Ga. Filed July 12, 1917. Serial No. 180,192. 15 Claims. (Cl. 179—100.1.)



1. In a device of the class described, the combination of a diaphragm holder, a diaphragm mounted thereon, an electromagnet carried by said holder opposite the diaphragm, and an armature for the magnet secured to said diaphragm, said diaphragm holder having a sound passage which extends therethrough, said passage having a part which extends around said magnet.

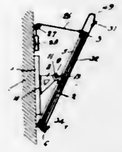
1,344,919. HYDRAULIC JACK. ALEXANDER W. MARR, Canton, Ohio. Filed May 5, 1919. Serial No. 294,650. 6 Claims. (Cl. 138—9.)



1. In a hydraulic jack, the combination with a cylinder, a ram movable therein, a head secured to said ram, a pump in the latter, a device in said head for operating said pump, of an air valve in said head, and automatic means controlled by the pump-operating device, to open said air valve to admit air to the interior of said head, and to hold said valve open until the pump-operating device has been returned to its starting position.

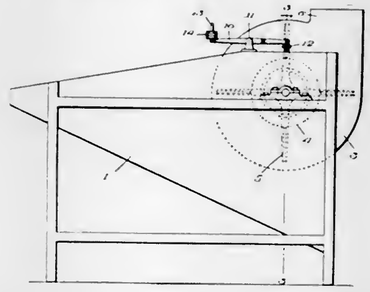
1,344,920. BLACKBOARD. TOM MELLOR, Brandon, Manitoba, Canada. Filed Apr. 26, 1920. Serial No. 376,767. 7 Claims. (Cl. 35—15.)

1. The combination with the wall of a room and a blackboard, of a plurality of horizontally alined hangers and brackets pivotally suspending the blackboard from the wall and with the pivot point positioned to the rear



of the longitudinal axis of the blackboard and with certain of the brackets and hangers presenting engaging friction faces.

1,344,921. AIR-SUCTION REGULATOR. HENRY HERMAN MEYER, Red Wing, Minn. Filed Feb. 28, 1919. Serial No. 279,849. 2 Claims. (Cl. 130—12.)

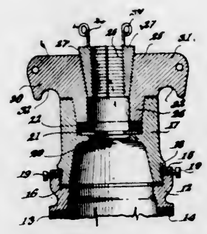


1. The combination of a casing having a screen for the passage of air, means connected to the casing for sucking the air therefrom, said casing having air inlets at opposite sides of said means, valves for said inlets arranged to open inwardly as the suction increases, a U-shaped lever extending partially around said means and fulcrumed between its terminals and intermediate portion on the casing at opposite sides of said means, the terminals of the lever being connected to said valves, and means for swinging the intermediate portion of said lever to move the valves outwardly and adapted to regulate the tendency for closing said valves.

2. The combination of an air suction casing having a screen for the passage of air into the casing, a fan housing built in the casing for sucking air therefrom, the casing having air inlet openings at opposite sides of the fan housing for relieving the air suction, of valves for said openings arranged to open inwardly as the suction increases, and a U-shaped lever fulcrumed to the casing and extending partially around the fan housing, the terminals of said lever being connected to the valves, and the lever having means at the yoke portion for receiving weights to regulate the opening of the valves.

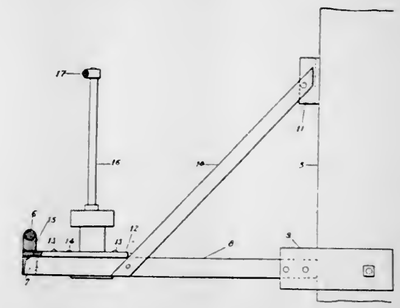
1,344,922. OIL-WELL APPLIANCE. LORY J. MILDREN, Ponca City, Okla., assignor of one-half to Jerome B. Hinkle, Ponca City, Okla. Filed June 24, 1919. Serial No. 306,450. 6 Claims. (Cl. 285—22.)

1. In a device as set forth, the combination of a lower section, an upper section provided with a depending tubular portion adapted for insertion into the lower section, an annular flange formed upon the lower section, a gasket upon said annular flange and engaging against the inner end of said tubular portion for forming a fluid-tight connection between the upper and lower sections, said upper section provided with an axial bore, a plurality of pipe gripping members inserted into the upper portion of said bore for supporting gripping engagement with a pipe, laterally extending lugs formed upon said upper section



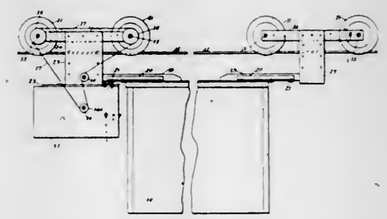
and adapted for engagement with hoisting links, and pins extending transversely through said lugs for preventing accidental disconnection of the links and lugs.

1,344,923. SUPPORT FOR ELEVATED CABLE-TRACKS. JOSEPH F. MONTINE, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,675. 1 Claim. (Cl. 104—115.)



A support for an elevated cable track, comprising a cable supporting member having a channel in which the cable seats, a plate supporting said member, a post, and a pair of bracket arms secured to the post and extending horizontally therefrom, said arms supporting the aforesaid plate, and one of the arms having a pivotal connection with the plate.

1,344,924. CARRIER-TRUCK FOR OVERHEAD TRANSPORTATION SYSTEMS. JOSEPH F. MONTINE, Chicago, Ill. Filed Sept. 19, 1919. Serial No. 324,871. 5 Claims. (Cl. 105—102.)



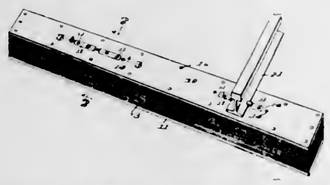
1. A carrier for overhead transportation systems, comprising a receptacle, a motor support, a frame extending from the end of the receptacle onto the latter, said support having an upright frame, and drive wheels carried by said upright frame.

1,344,925. ELECTRIC SWITCH. FREDERICK C. NAUJOKS, Los Angeles, Calif. Filed Feb. 8, 1917. Serial No. 147,359. 17 Claims. (Cl. 200—171.)



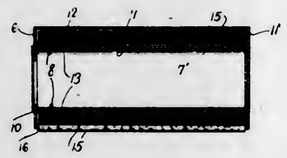
1. In a device of the character described, the combination of a movable contact member, means including a resilient element for moving said member, notches in said member spaced in the direction of movement thereof, said resilient element being formed integrally with said movable contact member, and a yielding detent means adapted to enter either of said notches.

1,344,926. RAILROAD-TIE. GEORGE F. A. OCHS, Newark, N. J. Filed Nov. 25, 1919. Serial No. 340,623. 4 Claims. (Cl. 238—37.)



1. A railroad tie having a marginal top plate, and inserts or anchor blocks fitted in openings in the top plate and provided with curved spike receiving sockets.

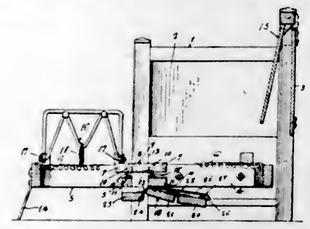
1,344,927. SANITARY HANDKERCHIEF-CONTAINER. MARY HENRIETTA V. OTWELL, Carlinville, Ill. Filed June 9, 1919. Serial No. 302,760. 1 Claim. (Cl. 206—47.)



A non-liquid container comprising a cylindrical member, one end being closed by means of a bottom, the opposite open end being surrounded by means of an outstanding circumscribing flange, a cap closing said container, a tubular casing extending from said flange and ending in alinement with said cylindrical member, said casing having a longitudinally extending slot, and a drum closed at one end surrounding said cylindrical member and stopped against said flange the other end being closed by means of a plate stopped against said cylindrical member, as and for the purpose set forth.

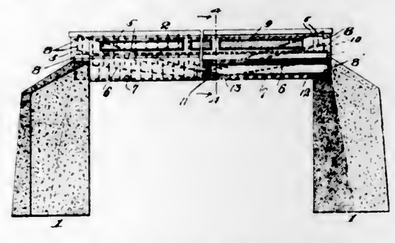
1,344,928. DAVENPORT. OSCAR H. SCHRAM, Oshkosh, Wis., assignor of one-half to Ernest Schlerf, Oshkosh, Wis. Filed Jan. 25, 1919. Serial No. 273,101. 1 Claim. (Cl. 5—49.)

A davenport including rear and side portions and said side portions adjacent their lower edges having inclined grooves, metallic linings for said grooves, a stationary frame-carried by said portions, a movable frame hinged to the stationary frame, an abutment secured to the inner longitudinal edge of the movable frame and projecting



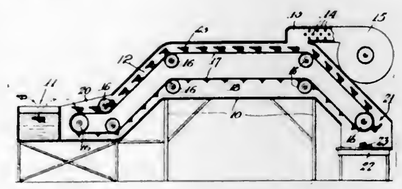
beyond the same, a pair of hingedly connected concealing members and one of said members hinged to the projected portion of the abutment, an arm secured to the other concealing member and projecting in said grooves.

1,344,929. REINFORCED-CONCRETE BRIDGE STRUCTURE. JOSEF STAINER, Pierre, S. D. Filed May 31, 1919. Serial No. 300,856. 3 Claims. (Cl. 72—8.)



1. In a bridge structure of the class described, the combination with abutments, of side structures and a floor structure supported upon said abutments, said floor structure including transverse I-beams and longitudinally extending I-beams, said transverse I-beams having their ends embedded in the side structure, said longitudinally-extending I-beams having their outer ends embedded in portions of the floor and having their inner ends fastened to the transverse I-beams, a plurality of truss bars in each side structure and bent downwardly near their middle, and some of said bars passing through the transverse I-beams and others of the bars passing under said I-beams near their ends.

1,344,930. PROCESS OF MANUFACTURING FELT SHOES. LIONEL A. WOLFF, Los Angeles, Calif. Filed Sept. 30, 1919. Serial No. 327,597. 4 Claims. (Cl. 38—8.)

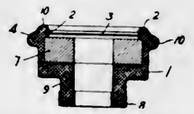


1. The method of shrinking felt shoes which comprises placing a shoe on a hollow aluminum last having perforations therein; dipping said last and shoe in a liquid; allowing the superfluous liquid to drain away through openings in the last; and subjecting the last and shoe to the action of heat, the last being so supported that water

vapor which escapes from the felt into the interior of the last can escape from said interior through unobstructed openings in the walls of the last.

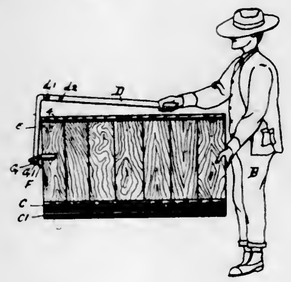
4. A last for use in shrinking felt shoes which comprises a metal shell without a sole; and provided with perforations through which water vapor may escape into the interior thereof.

1,344,931. REPRODUCER FOR TALKING-MACHINES. FRED ADAMS, Philadelphia, Pa., assignor to The Perfek'tone Corporation, Philadelphia, Pa., a Corporation of Maryland. Filed Jan. 31, 1920. Serial No. 355,428. 3 Claims. (Cl. 274—25.)



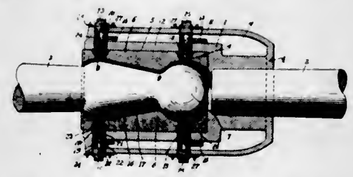
1. In a reproducer for talking machines the combination of a diaphragm, a sound box body composed of rubber and internally grooved for the reception of the diaphragm and soft enough to endanger the diaphragm when grasped from the outside, and a metal guard carried by the body and surrounding the grooved portion thereof and by which the reproducer can be handled without endangering the diaphragm.

1,344,932. TRAY-TURNER. GUST L. ANDERSON, Fresno, Calif. Filed Jan. 14, 1920. Serial No. 351,272. 3 Claims. (Cl. 34—17.)



3. In a tray turner the combination of a fork having three prongs spaced so that they are nearer together at the shoulder of the fork than at the outside ends of said prongs, said fork being attached to a handle with a swivel which permits the fork to turn on an axis in line with the middle prong, said handle extending at right angles to said middle prong, and having a portion at the end opposite the swivel bent so that it will be parallel to said middle prong, substantially as described.

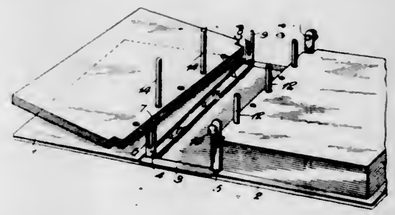
1,344,933. DIFFERENTIAL AXLE. JAMES M. AUBERY, Los Angeles, Calif., assignor to Priestly Coupler Company, a Corporation of New York. Filed Aug. 13, 1917. Serial No. 185,872. 6 Claims. (Cl. 295—39.)



1. A differential railway axle comprising two alined shafts subjected to relatively high bending strains, a

bearing member fixedly secured to the end of one of said shafts and inclosing the adjacent end of the remaining shaft, said member serving to hold said shafts in alinement, whereby said latter shaft tends to move upwardly at its inner end and downwardly at the inclosing edge of said bearing member, said shaft and bearing member having curved engaging bearing surfaces at said points of pressure.

1,344,934. LOOSE-LEAF BINDER. CHARLES LOUIS BALDAUF, West Hoboken, N. J., assignor to Thomas Nelson & Sons, New York, N. Y., a Corporation of New York. Filed Aug. 1, 1919. Serial No. 314,609. 5 Claims. (Cl. 129—8.)



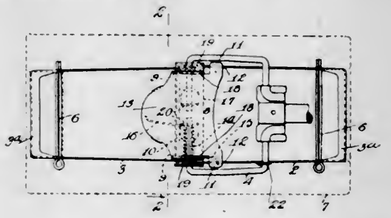
1. In a loose leaf binder, a frame comprising two members normally disposed oppositely and one of which has a leaf holding pin thereon, the ends of said members being bent so as to overlap, one of said ends being formed with spaced fingers of unequal length, and the end adapted to overlap said fingers having clamping means thereof, a part of which is adapted to slide between said fingers.

1,344,935. EAR-DRUM PROTECTOR OR EAR-STOPPER. EDWARD BAUM, Philadelphia, Pa. Filed Sept. 19, 1918, Serial No. 254,740. Renewed Nov. 24, 1919. Serial No. 340,240. 10 Claims. (Cl. 128—152.)



2. An ear drum protector, consisting of a hollow body filled with air, said body having at one end thereof a rounded outer terminal, a diaphragm secured to the opposite end thereof, and having an exteriorly projecting knob thereon, and an internal pendant sound absorbing member also projecting from said diaphragm and contained in the air chamber.

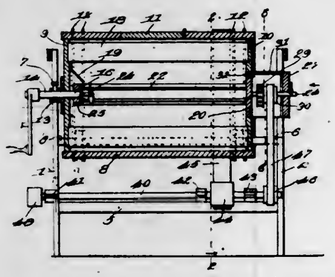
1,344,936. MOP-FRAME. EDMOND PHILÉMON BEAUDET, Montreal, Quebec, Canada, assignor to Alexander Wink Grant, Montreal, Quebec, Canada. Filed Sept. 16, 1919. Serial No. 324,229. 5 Claims. (Cl. 15—56.)



1. A mop frame, including sections pivoted together to swing toward each other, one of said sections having

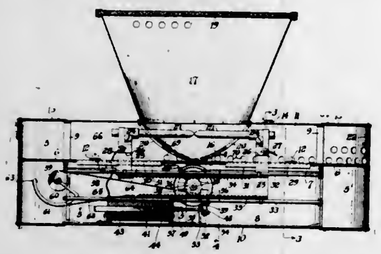
notches formed therein and a presser latch carried by the other section and fulcrumed at opposite points adjacent the sides of the frame to swing with relation thereto, said latch having integral fingers adapted to engage within said notches and prevent the swinging of the frame sections toward each other.

1,344,937. CHURN. HANS CHRISTENSEN, Springdale, Wash. Filed July 23, 1919. Serial No. 312,811. 6 Claims. (Cl. 259—85.)



1. A churn comprising in combination, a barrel having a crank and an open head, a frame, rollers on said frame rotatively supporting said barrel for rotation of the latter about a fixed axis, a crank projecting through said crank head and adjustably fixed to said head to rotate the latter, a spindle supporting bar loosely mounted on said crank, kneading roller spindles having their ends journaled in said supporting bar, a closure for said open head, a frame bar, said spindles extending through said closure and frame bar, a guard rigidly connecting said frame bar and closure, kneading rollers on said spindles between said closure and supporting bar, and means for operating said kneading rollers.

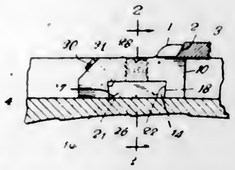
1,344,938. ARC-LAMP CASING. IREDELL EACHUS, Philadelphia, Pa., assignor to The Macbeth Arc Lamp Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1916. Serial No. 94,116. 8 Claims. (Cl. 176—115.)



6. In a device of the character stated, an arc lamp compartment having back, side and end walls and a front wall longitudinally slotted toward the ends above, and below the center, carbon holders passing through the slots and operating mechanism contained within the casing, the casing having relatively excessive air inlet in its lower part as compared with its upper part, adapted to cause part of the air admitted to pass out of the casing through the slots.

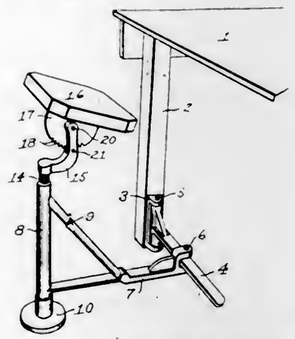
1,344,939. PRINTING-PLATE CLAMP. WILLIAM M. EVENSEN, Chicago, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Filed Nov. 6, 1917. Serial No. 200,502. 29 Claims. (Cl. 101—386.)

5. A plate clamp operating with a slotted plate bed, and including in combination a plate clamping jaw, a body integral therewith and located within the slot in the bed plate, oppositely moving expanding members mounted in ways in said body, and means for forcing



said expanding members outwardly laterally on both sides without movement along said body to expand and fasten the clamp in the slot.

1,344,940. OPERATOR'S SEAT FOR CANNERY-TABLES. WILLIAM H. GAVIN, Santa Clara, Calif., assignor to Pratt-Low Preserving Co., Santa Clara, Calif., a Corporation of California. Filed Jan. 12, 1920. Serial No. 350,755. 1 Claim. (Cl. 155—81.)



An operator's seat for work-tables comprising a supporting member having a base; a foot-rest pivotally connected with a leg of an associated table for movement in a horizontal plane; a pivotal connection between said supporting member and said foot-rest, adapting said member to swing in a horizontal plane; a seat-carrying bracket mounted on said supporting member and vertically adjustable with respect thereto; a tiltable seat carried by said bracket; and means for locking said seat in angular relation to said bracket.

1,344,941. APPARATUS FOR MEASURING AND SORTING RODS. WALTER GILLETT, East Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1916. Serial No. 118,254. 9 Claims. (Cl. 33—147.)

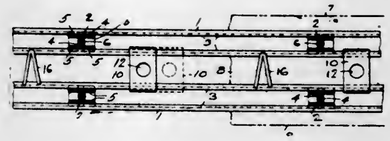


1. An apparatus for determining the taper of rods or similar articles comprising a plurality of gages located at a fixed distance apart and each having a pair of jaws adapted to engage the said article on corresponding opposite points, a common indicating scale and means whereby the separation of the jaws of each gage is registered separately and simultaneously upon said common indicating scale.

1,344,942. REINFORCING MEANS FOR CONCRETE STRUCTURES. WILLIAM GOLDIE, Wilkinsburg, Pa. Filed July 10, 1918. Serial No. 244,237. 3 Claims. (Cl. 72—110.)

1. In a concrete reinforcing structure, the combination with a plurality of reinforcing frames, each consisting

of main and auxiliary reinforcing members, said members presenting laterally extending flanges, means for holding said frames spaced apart at a predetermined distance,



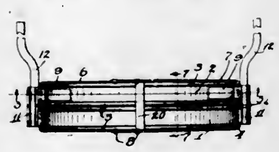
said means consisting of spanner members for limiting the distance apart of the frames, wedging or expander members interposed between the frames for wedging said members apart within the limits of said spanner members.

1,344,943. FLY-SWATTER. BERT O. GRAHAM, Cordova, Alaska. Filed Oct. 18, 1919. Serial No. 331,704. 6 Claims. (Cl. 43—135.)



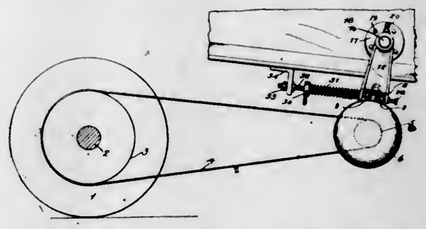
1. The combination with a fly swatter, of an extension handle to the outer end of which the handle of the swatter is pivoted, an operating rod connected to said swatter and slidable along the extension handle, an actuating spring connecting the extension handle and rod, and a hand operated releasing device for holding the rod in position to set the swatter.

1,344,944. ADJUSTABLE TIRE-CARRIER. WALTER R. GREEN, Chicago, Ill. Filed Nov. 15, 1916. Serial No. 131,393. 11 Claims. (Cl. 224—29.)



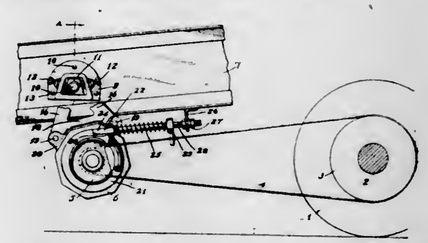
1. In a tire carrier of the class described, curved supporting means, mechanism for attaching the same to a motor car, means expanding and contracting said means to adapt the same for carrying tires of different size and resilient members on said supporting means adapted to contact and hold a tire therebetween.

1,344,945. DYNAMO-MOUNTING. CARL HARTMANN, Rochester, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Dec. 26, 1916. Serial No. 138,942. 24 Claims. (Cl. 105—106.)



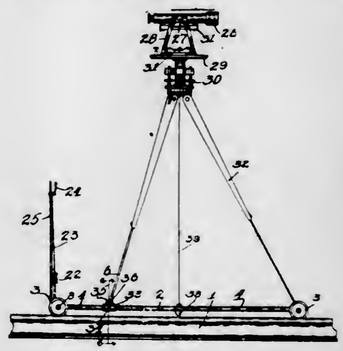
1. A dynamo mounting comprehending a swinging member and means for adjustably holding a dynamo in fixed relation thereto.

1,344,946. DYNAMO-MOUNTING. CARL HARTMANN, Rochester, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Dec. 26, 1916. Serial No. 138,943. 9 Claims. (Cl. 105—106.)



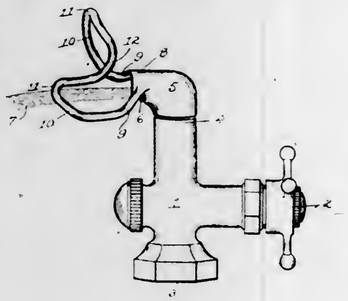
1. A dynamo mounting comprising a unitary supporting frame having arms, a shaft passing through an opening in each of said arms, bearings for said shaft, means for adjusting and holding said bearings, and a dynamo rigidly attached to said supporting frame.

1,344,947. CARRIER FOR SURVEYING INSTRUMENTS. CORNELIUS G. HASTINGS, Glendale, Calif. Filed Feb. 4, 1918, Serial No. 215,308. Renewed Nov. 17, 1919. Serial No. 338,662. 7 Claims. (Cl. 105—164.)



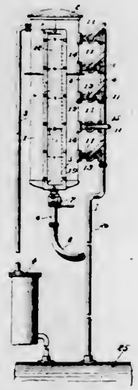
1. In a device of the class described, the combination with a track, of a frame provided with supporting means whereby the frame is movable along the track, a plurality of adjustable supporting members on the frame, a surveying instrument, and means for mounting the surveying instrument on the said adjustable supporting members of the frame.

1,344,948. SANITARY DRINKING-FAUCET. ALPHEUS G. HAWS, Berkeley, Calif. Filed Sept. 12, 1919. Serial No. 323,292. 2 Claims. (Cl. 299—15.)



1. A stream-head and guard for a sanitary drinking-faucet, comprising an elbow head-member to be fitted to a supply pipe, the free end of said head member having a cowl overlying and projecting beyond the stream aperture of said member; and a guard-member carried by said cowl, said guard member extending from each side of the cowl, laterally divergent and initially depressed, and thence inclining upwardly and curving backwardly in a transverse portion lying above and forward of the cowl.

1,344,949. GASOLENE-DISPENSING APPARATUS. LEO M. KAVANAGH, Baltimore, Md. Filed Apr. 5, 1917. Serial No. 159,875. 3 Claims. (Cl. 221—100.)



1. In a dispensing tank, a series of overflow outlets at different levels corresponding to known volumes, means for correcting the volume at the various levels consisting of a series of detachable members, and means for fastening them in suitable positions corresponding to such volumes to vary and adjust the capacity of the tank.

1,344,950. TANNING MATERIAL AND METHOD OF PRODUCING THE SAME. ARTHUR KOETZLE, New York, N. Y., assignor to Rohm & Haas Company, a Corporation of Delaware. Filed Apr. 12, 1919. Serial No. 289,592. 7 Claims. (Cl. 23—24.)

1. A tanning material comprising the condensation product of a sulfo-phenol-carboxylic acid with formaldehyde, which product is amorphous, soluble in water and produces a leather which is substantially colorless, strong and pliable.

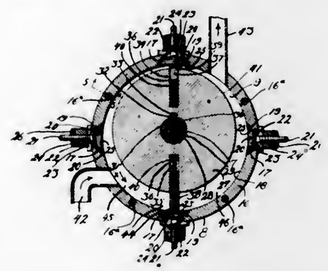
1,344,951. TANNING MATERIAL AND METHOD OF PRODUCING THE SAME. ARTHUR KOETZLE, New York, N. Y., assignor to Rohm & Haas Company, a Corporation of Delaware. Filed June 6, 1919. Serial No. 302,184. 5 Claims. (Cl. 23—24.)

2. A tanning material comprising a condensation product of a sulfo-cresol carboxylic acid with formaldehyde which product is amorphous, soluble in water, adapted to precipitate glue and gelatin in acid solutions and which produces a substantially white, soft and strong leather.

1,344,952. TANNING MATERIAL AND PROCESS OF PRODUCING THE SAME. ARTHUR KOETZLE, New York, N. Y., assignor to Rohm & Haas Company, a Corporation of Delaware. Filed June 6, 1919. Serial No. 302,185. 10 Claims. (Cl. 23—24.)

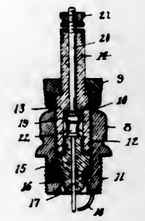
1. A material for tanning purposes, comprising a condensation product of a chlorinated napthalenesulfonic acid with formaldehyde which product is amorphous, soluble in water and adapted to produce a light colored and strong leather.

1,344,953. COMBINED SPARK-TIMER AND OIL-PUMP. JOHN MCCLELLAND, Philadelphia, Pa. Filed Mar. 16, 1920. Serial No. 366,446. 5 Claims. (Cl. 123—146.5.)



1. A device of the character described including a drum; a brush carrier rotatably mounted within the drum eccentrically to the inner surface thereof; electric contact members within said drum and brushes movably connected to said carrier and having portions for engagement with the inner surface of said drum beyond said carrier; and inlet and outlet oil pipes communicating with the space between said carrier and said portions of the inside of said drum whereby during relative rotation between said drum and carrier, said brushes will serve to force oil out of said space through one of said pipes and take oil into said space through the other of said pipes, at least one of said brushes being successively operative to form electrical connections between said carrier and said contact members; substantially as described.

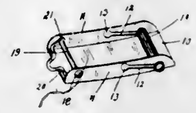
1,344,954. SPARK-PLUG. CHARLES F. MEYER, Bridgeport, Conn. Filed Jan. 28, 1919. Serial No. 273,636. 1 Claim. (Cl. 123—169.)



A spark plug consisting of a casing which is threaded for attachment to a motor cylinder and having extended

sparking points, a removable closure cap upon the top end of the casing, two porcelain members within the casing and inclosed by the said cap and having alined central holes therethrough, two alined conducting rods one arranged in the hole of each porcelain, one of said rods being provided with a head and the other with a pair of yieldable jaws to telescopically engage the opposite sides of the head to form a self-adjusting telescopic electrical connection for the adjacent ends of the conducting rods.

1,344,955. BELT-BUCKLE. WILLIAM J. MORSE, Attleboro, Mass., assignor to Morse-Andrews Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Nov. 13, 1919. Serial No. 337,727. 1 Claim. (Cl. 24—171.)



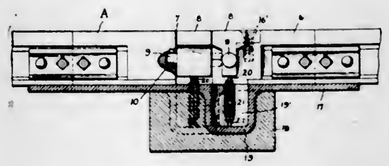
A belt-buckle comprising a body having side walls provided with inclined slots each having a portion slightly enlarged above its working size, a belt-gripping roll having reduced integral bearing portions slidable in said slots, a slightly enlarged integral head portion on each of said bearing ends adapted to enter through the said enlarged portions of said slots, caps of a different quality of stock covering said heads and increasing their diameter above that of the enlarged portions of said slots, and a belt-gripping bail connected to said side walls adjacent the opposite end of the buckle body.

1,344,956. SPARK-PLUG. ARTHUR R. MOSLER, New York, N. Y., assignor to A. R. Mosler & Company, Mount Vernon, N. Y., a Corporation of New York. Filed Sept. 16, 1916. Serial No. 120,525. 7 Claims. (Cl. 123—169.)



1. A spark plug comprising a block of insulating material having a longitudinal bore flared at its upper end to form a priming cup, an electrode movable in said bore, a valve on said electrode engaging said block at the junction of the flared portion and longitudinal bore, a cap removably engaging the block for covering the bore, and means interposed between the cap and valve for yieldingly holding the valve closed on the bore.

1,344,957. AUTOMATIC CONTINUOUS-RAIL CROSSING. HAROLD W. PATTISON, Seattle, Wash. Filed Feb. 10, 1920. Serial No. 357,538. 5 Claims. (Cl. 246—273.)



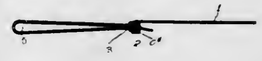
1. The combination of a track crossing having wheel flanged gaps at the points of intersection, filler blocks pivotally mounted within the gaps, a clamping block forming a section of one track, and means for normally holding the filler blocks in a vertical position and yieldably resist the pivotal movement thereof.

1,344,958. ELECTRIC-SWITCH LOCK. CLARENCE D. PLATT, Bridgeport, Conn. Filed Oct. 1, 1919. Serial No. 327,616. 8 Claims. (Cl. 200—42.)



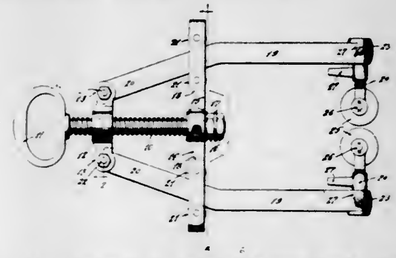
5. In combination, a box body, a flanged cover therefor, a switch in the box having an external handle, a stop adapted to be interposed between a flange of the cover and said handle and means for fastening said cover.

1,344,959. BINDING APPLIANCE. ELLERY POLLARD, Brooklyn, N. Y. Filed Mar. 13, 1919. Serial No. 282,328. 4 Claims. (Cl. 128—327.)



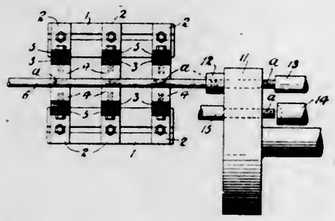
1. A binding appliance consisting of a flexible strand, a fixed stop thereon, and a flat ring to receive said strand, doubled with said strand forming a contractible loop, said stop having a substantially flat surface to co-act with said ring in gripping the strand as tightened about an object, to secure the appliance against loosening.

1,344,960. IMPLEMENT FOR SMOOTHING METAL. ERNEST G. RAFF, St. Louis, Mo., assignor to Stiles-Gilliland Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 28, 1919. Serial No. 313,892. 2 Claims. (Cl. 81—15.)



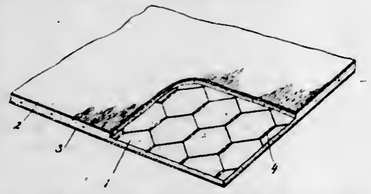
1. An implement for smoothing sheet metal comprising a threaded collar, a screw working in said collar, a follower-arm arranged crosswise of said screw and having a swivel connection with one end thereof and said screw having a handle at its other end said follower-arm having slots in its opposite ends arranged parallel with the longitudinal axis of said screw, spaced rollers in said slots and lever arms arranged parallel with said screw on opposite sides thereof, said lever arms being inclined toward each other at one end and pivotally connected to said threaded collar, having alined sockets in the other ends, tools removably mounted in said sockets, said tools comprising yokes having rollers journaled therein, said rollers being positioned on the inside of said arms and arranged with their axes parallel, the inclined portion of said lever arms extending through the slots in said follower-arm and being arranged between the spaced rollers thereof whereby actuation of said screw causes the rollers to engage the inclined portions of said lever arms to open and close the same.

1,344,961. ELECTRIC METAL-WORKING APPARATUS. WOLCOTT REMINGTON, Lynn, Mass., assignor to Thomson Electric Welding Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 4, 1919. Serial No. 328,460. 11 Claims. (Cl. 219—3.)



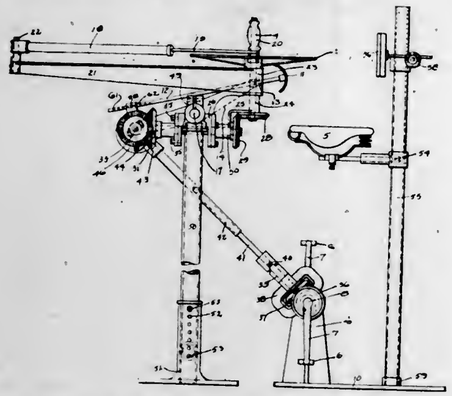
1. In a metal working machine of the character described, a feedway having electrodes for heating the work at successive positions in its step by step feed forward into the metal working portion of the machine.

1,344,962. COMPOUND BOARD. CHARLES G. ROBINSON, Buffalo, N. Y., assignor to The Beaver Company, a Corporation of Ohio. Filed June 16, 1919. Serial No. 304,568. 5 Claims. (Cl. 154—45.9.)



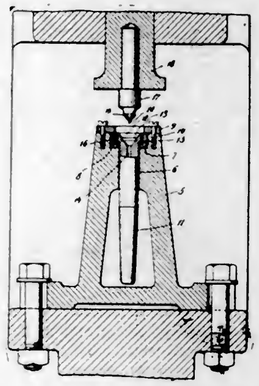
2. As a new article of manufacture, a compound board having a body portion composed of plastic material reinforced by a member of reticular form, plies of paper stock secured to the outer surfaces of said body portion, and a coating of a cellulose ester on the exposed surfaces of said plies of paper stock.

1,344,963. EXERCISING APPARATUS. HENRY M. RUDEN, West Haven, Conn. Filed Mar. 3, 1920. Serial No. 362,995. 8 Claims. (Cl. 46—69.)



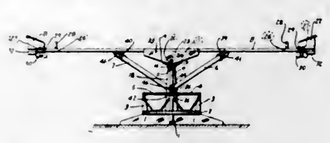
1. An exercising apparatus having arm-exercising means rotating in the same horizontal plane, rotary leg-exercising means, operating connections between the said arm- and leg-exercising means whereby they are operated interdependently, and abdomen-exercising means attached to the said connections and operated thereby.

1,344,964. METHOD OF MAKING BLOWPIPE-TIPS. RICHARD F. RUSSELL, Jersey City, N. J., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed July 14, 1919. Serial No. 310,695. 5 Claims. (Cl. 29—157.)



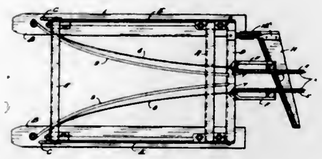
1. A method of making blowpipe tips which comprises, forming the tip with a discharge passage and a conical recess at its rear end, rigidly supporting said tip, and pressing one or more grooves in the surface of said recess intersecting said discharge passage.

1,344,965. WHIRLING SEESAW. JAMES E. SMITH, St. Louis, Mo., assignor, by direct and mesne assignments, to Smith and Seper Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 26, 1919. Serial No. 326,434. 8 Claims. (Cl. 46—27.)



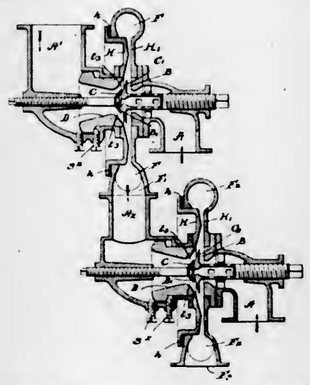
1. The combination of a central support, a circular track thereabout, braced means covable over the track and engageable therewith, at times, a beam in double pivotal relation to the support, and levers pivoted to the beam and to said means.

1,344,966. BEET-TOPPING MACHINE. MARION A. SMITH, Salt Lake City, Utah, assignor to Liberty Beet Topper Company, Salt Lake County, Utah, a Corporation. Filed Oct. 14, 1918. Serial No. 257,942. 4 Claims. (Cl. 55—107.)



4. A beet topping machine comprising a frame mounted on runners and connected at one end to beet digging elements; curved springs secured to said frame and adapted to press against the sides of beets growing in a row; spaced apart disks mounted on said frame and laterally movable by said curved springs; and a topping knife mounted on one end of said frame adapted to be moved vertically by said disks passing through the crown of a beet.

1,344,967. METHOD OF AND APPARATUS FOR COMPRESSING FLUID. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 3, 1917. Serial No. 152,294. 46 Claims. (Cl. 230—13.)



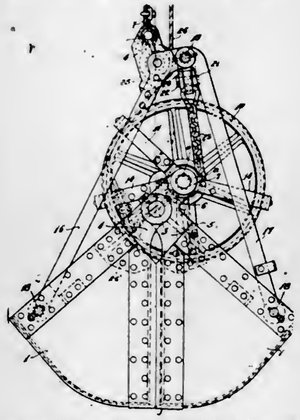
1. The method of compressing elastic fluid in a single stage, which consists in producing a motive fluid jet, entraining elastic fluid thereby, producing a second motive fluid jet closely adjacent to said first named jet and separated from the elastic fluid by said first named jet, and increasing the pressure of the mixture by decreasing its velocity.

1,344,968. VIOLIN-MUTE. HERBERT H. VANDERHOOF, San Francisco, Calif. Filed June 28, 1916. Serial No. 106,361. 1 Claim. (Cl. 84—75.)



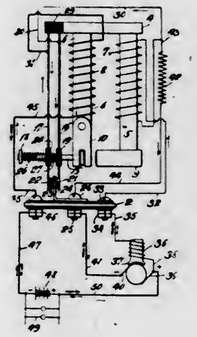
A mute comprising two opposed sets of clamping fingers; an integral resilient web connecting the two sets of fingers and holding the same in spaced relation; the figures of each set being extended beyond the web and integrally connected to each other.

1,344,969. EXCAVATING-BUCKET. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Feb. 16, 1918. Serial No. 217,663. 14 Claims. (Cl. 37—30.)



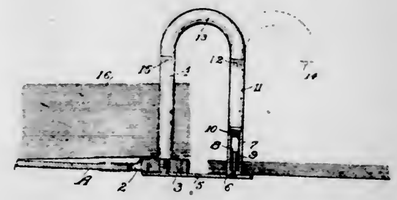
1. An excavating bucket comprising in combination, a pair of scoop segments, a hinge pivot for joining the inner portions of the segments so that they may be opened and closed, corner bars secured to the outer portion of the segments and pivoted together adjacent their upper ends, and a bull wheel, connected to the corner bars by a flexible connection up which it is adapted to wind when rotated, and pivoted to one of the segments at a point above its inner portion and to one side of the vertical plane cutting the pivotal axis of the bucket segments.

1,344,970. RELAY FOR STORAGE-BATTERY-CHARGING SYSTEMS. JAMES M. WILSON, Newark, N. J., assignor to Ray S. Lanz, Newark, N. J. Filed Oct. 4, 1918. Serial No. 256,810. 10 Claims. (Cl. 171—313.)



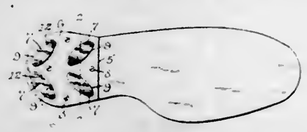
1. In a relay of the character described, the combination with a dynamo and storage battery, of an electro-magnet of fine wire and an electro-magnet of coarse wire, said magnets being so mounted that one of the free pole ends is movable toward and from the other, connections with the dynamo for energizing said magnets so that the pole pieces mutually attract, the movable pole thereby moving toward the other, connections whereby the storage battery is adapted for energizing said electro-magnets so that said poles mutually repel and one moves away from the other, when the potential of the dynamo drops below that of said battery, said last named connections including a resiliently mounted contact coöperating with a fixed contact, and means whereby said movable pole end, when repelled, is adapted to deliver a hammer or impact blow for separating said contacts should they stick.

1,344,971. LOOSE-LEAF-BINDER EXTENSION. LAWRENCE E. ALLISON, Modesto, Calif. Filed Aug. 15, 1918. Serial No. 249,947. 2 Claims. (Cl. 129—10.)



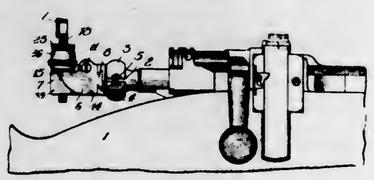
1. A binder extension for loose leaf ledgers and the like consisting of a base having a bar hinged along one edge, parallel arms having one end fixed to the bar and projecting outwardly therefrom, vertical posts projecting upward from the bar and locking the bar and arms together, said arms having upwardly extending pins at the outer ends, tubular posts slidable on the pins, and springs to normally hold the tubular posts down, extensions of said posts, and semicircular arches having one end secured to said extensions and having the opposite ends formed to enter sockets in the upper ends of the posts extending up from the bar.

1,344,972. RESILIENT HEEL-TREAD. ROBERT ARMOUR, Providence, R. I. Filed Sept. 5, 1919. Serial No. 321,942. 1 Claim. (Cl. 36—59.)



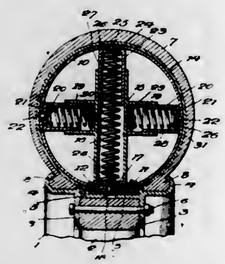
A resilient heel tread comprising a heel plate 6 having two undercut oval openings 9, 9, adjacent to and parallel with the back of the heel plate, an undercut oval opening 9 extending at an angle from each forward corner of the heel plate, soft rubber oval plugs 7, 7 in each undercut oval opening in the heel plate, each oval plug 7 having a flat head 12, straight sides 13, 13, a continuous angular lip 14 which fits under the undercut sides of the openings 9, 9 and detachably secure the plugs in place and an oval cavity 15, the bottom 16 of which extends out beyond the outer face of the heel plate 6, whereby, the rubber plugs are placed in the best position for resiliency, they are easily reversible and when worn down to the heel plate, oval rings of rubber only are left, which may be easily removed by the fingers, from the cavities in the heel plate.

1,344,973. SIGHTING DEVICE FOR FIREARMS. GUSTAV A. BADER, Rochester, N. Y. Filed May 28, 1919. Serial No. 300,257. 16 Claims. (Cl. 33—55.)



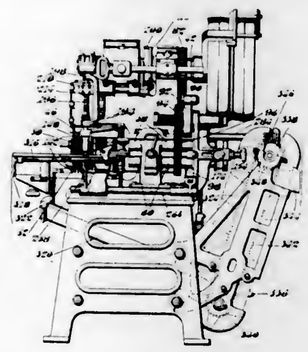
1. A sighting device comprising a two part base, one of which is provided with means for attaching it to a gun and has the other part pivotally mounted thereon to swing about a horizontal axis, a guide mounted on said swinging part out of line with said pivot, a column adjustable on said guide, an eye cup mounted on said column, and an auxiliary eye cup mounted on the rear end of said swinging part.

1,344,974. SPRING-TIRE. JOHN W. BASSHAM, Columbia, Tenn. Filed Feb. 11, 1920. Serial No. 357,862. 4 Claims. (Cl. 152—8.)



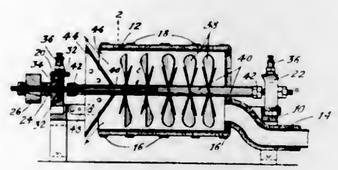
1. In a device of the class described, a base member; resilient rings carried by the base member and disposed transversely thereof; frames in the rings; lateral followers slidable in the frames and coöperating with the sides of the rings; median followers slidable in the frames and coöperating with the tread portions of the rings; compression springs in the frames and supporting the median followers; and tension springs in the frames, the outer ends of the tension springs being attached to the lateral followers and the inner ends of the tension springs being attached to the frames.

1,344,975. CUTTING-MACHINE. WILLIAM C. BAXTER, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 7, 1917. Serial No. 173,314. 104 Claims. (Cl. 164—22.)



1. In a machine of the class described, the combination with cutting means and means spaced from said cutting means for feeding measured lengths of material into position to be operated upon by said cutting means, of auxiliary means arranged to operate upon said material after it has ceased to be operated upon by the feeding means to move the portion of the material between said feeding means and cutting means into position to be cut, and means for engaging the material to limit the movement imparted thereto by said auxiliary means.

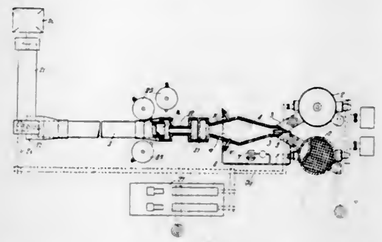
1,344,976. EXHAUST-MUFFLER. GEORGE A. BLAIN and JACOB SCHERER, Long Lake, Minn. Filed Apr. 17, 1918. Serial No. 229,167. 3 Claims. (Cl. 137—60.)



1. An exhaust muffler comprising a casing, an exhaust pipe connecting one end of said casing with an engine, a shaft extending axially through said casing, a fan in said casing secured to said shaft, means for rotating said shaft, a conical deflector positioned to form an annular slot for the discharge of gases at the other end of said casing, and a bearing for said shaft at the rear of said deflector whereby said bearing is protected from the action of discharge gases.

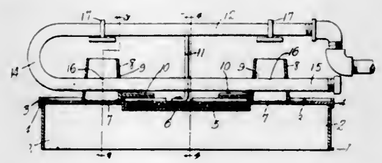
1,344,977. METHOD OF AND APPARATUS FOR REDUCING METALLIC OXIDS. AGUSTIN E. BOURCOUD, Chicago, Ill. Filed June 17, 1918. Serial No. 240,469. 23 Claims. (Cl. 75—17.)

1. A method of reducing metallic oxids, consisting first in mixing a non-combustible gas with atomized fuel at high temperature, thereby converting such mixture to a reducing gas, and after such conversion bringing this re-



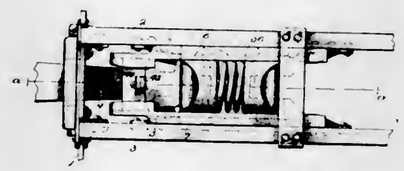
ducing gas at high pressure into contact with the oxids to be reduced.

1,344,978. OIL-BURNER. CARL E. BROWN, Columbus, Ohio. Filed Aug. 20, 1919. Serial No. 318,713. 3 Claims. (Cl. 158—64.)



1. In a device of the class described, a casing having a priming tray and provided with an opening; a U-shaped generator supported above the casing and embodying upper and lower arms, the lower arm being supplied with a combustion orifice; a hood coöperating with the opening and having a laterally projecting discharge member, the hood being slidable on the lower arm of the generator, whereby one end of said discharge member may be disposed below the combustion orifice when the other end of said member is disposed above the tray, thereby to deposit a priming charge in the tray.

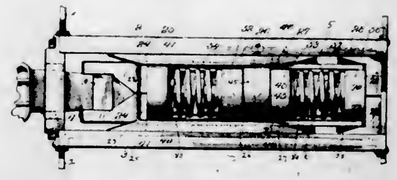
1,344,979. DRAFT-RIGGING. PERRY BROWN, Coraopolis, Pa.; Margaret J. Brown executrix of said Perry Brown, deceased. Filed July 8, 1914. Serial No. 849,791. 30 Claims. (Cl. 213—42.)



1. In draft rigging and in combination with the sills and a draw bar having ribs or shoulders, a pair of side bars having abutments co-acting with said ribs, abutments projecting from said sills, followers located between said side bars and having parts projecting beyond the side bars and coacting with the abutments on the sills, the shank of the draw bar abutting against the forward follower on an "impact."

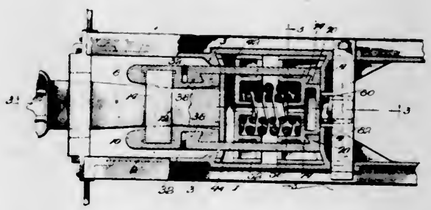
9. In draft rigging and in combination with a draw bar having horizontal ribs or shoulders, a pair of side bars on opposite sides of said draw bar, and plates bridging the space between the ends of said side bars, one on each side of the shank of the draw bar, said plates co-acting with the ribs or shoulders on said draw bar.

1,344,980. DRAFT-RIGGING. PERRY BROWN, Coraopolis, Pa.; Margaret J. Brown executrix of said Perry Brown, deceased. Filed Dec. 30, 1914. Serial No. 879,705. 13 Claims. (Cl. 213—42.)



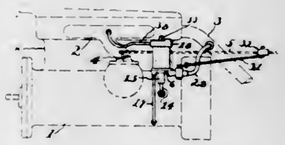
1. In a draft rigging and in combination with the draw bar, a pair of side bars straddling the shank of said draw bar and having abutments forming a pocket into which the shank projects, and a plate co-acting with the shoulder of the draw bar and bridging the space between said side bars.

1,344,981. DRAFT-RIGGING. PERRY BROWN, Coraopolis, Pa.; Margaret J. Brown executrix of said Perry Brown, deceased. Filed Aug. 5, 1915. Serial No. 43,882. 2 Claims. (Cl. 213—42.)



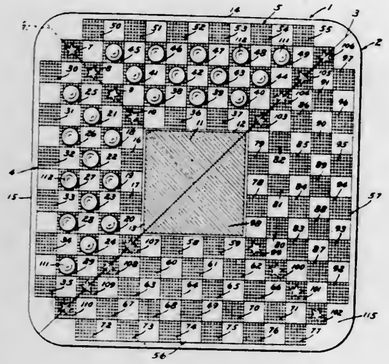
1. In draft rigging and in combination with the draw bar shank, a pair of side plates, horizontal plates on opposite sides of said draw bar shank connecting said side plates, a pair of side bars connected with said side plates and followers connecting with said side plates and said draw bar shank, the rear follower being connected with said side bars and the front follower receiving the impact from said draw bar shank.

1,344,982. OIL-FILTERING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. ROBERT F. Brown, Detroit, Mich. Filed May 20, 1919. Serial No. 298,382. 15 Claims. (Cl. 123—196.)



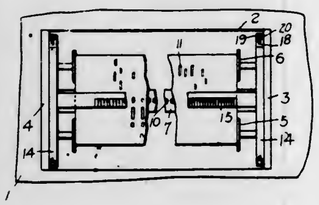
1. A lubricating oil filtering attachment for internal combustion engines, including a casing inclosing a chamber, oil supply and return pipes leading from the casing to the crank case of the engine, means actuated by the operation of the engine for automatically producing a circulation of oil through the pipes and casing, means for heating the walls of the casing, and an overflow oil receptacle arranged within the casing with the sides thereof in a spaced relation to the heated side walls of the casing, the oil supply pipe leading to the said space so that the oil is brought into intimate contact with the heated side walls of the casing and brought substantially to the boiling point to remove water and like distillates therefrom before overflowing into the receptacle.

1,344,983. GAME. GEORGE E. BRUNER, Los Angeles, Calif. Filed May 31, 1918. Serial No. 237,592. 4 Claims. (Cl. 46—64.)



1. In a game, two triangular fields having playing spots in rows at right angles to each other; there being "guard row" playing spots on the line between the fields, playing spots on each field, said playing spots being arranged in diagonal relation to the playing spots immediately adjacent thereto, and a "home ground" in the corner between the swo sets of playing spots at the inner end of the "guard row."

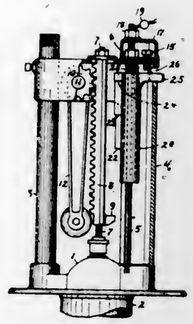
1,344,984. PLAYER-PIANO. FRANK WESLEY BULL, Oshawa, Ontario, Canada. Filed Jan. 27, 1920. Serial No. 354,389. 4 Claims. (Cl. 84—48.)



4. In a player piano provided with the usual tune sheet, a guide way located at each end of the tune sheet each comprising a bar secured to the gable of the spool box, a bar parallel to each of the aforesaid bars and resiliently connected thereto, a miniature key board-chart slidably held at its ends between each pair of stationary and resiliently held bars, and a key board-chart having reduced ends fitting between the stationary and resiliently held bars so as to be slidable therebetween.

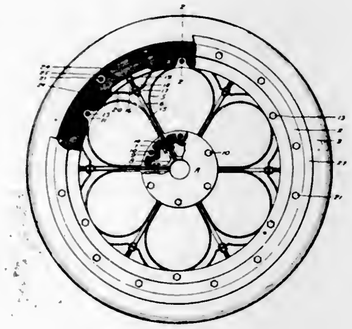
1,344,985. DISPENSING-PUMP. WALTER G. BURNS. Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Oct. 23, 1918. Serial No. 259,334. 7 Claims. (Cl. 221—103.)

1. In a dispensing pump, a pumping mechanism having a reciprocating member including a projecting lug; a standard: a series of stationary adjustable stops; and a movable engaging member adapted to be adjustably positioned for engagement severally with the stops, and having also a series of differently located shoulders



adapted to be engaged severally by the said lug accordingly as the engaging member is positioned.

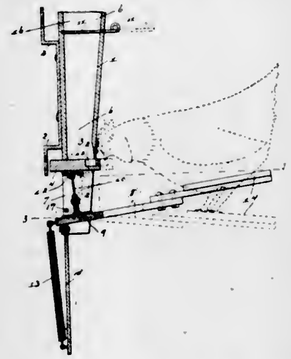
1,344,986. RESILIENT WHEEL. ALBERT H. CARLSON, Butte City, Calif. Filed Apr. 30, 1919. Serial No. 293,617. 11 Claims. (Cl. 152—50.)



1. A resilient wheel comprising a felly, a hub member, a plurality of spring spokes interposed between the hub and the felly, said spring spokes having their terminal ends separated but rigidly connected by a pair of transverse sections, said transverse sections and terminal ends of the spokes forming hub segments, means passing through said hub segments and securing the same, a centrally positioned enlargement formed on the opposite end fo each spoke, and fastening means extending through the felly and said enlarged portions to secure the spokes to the felly.

1,344,987. POULTRY-FEEDER. ZOTHIQUE CHOINIERE, Cohoes, N. Y. Filed Mar. 26, 1919. Serial No. 285,157. 1 Claim. (Cl. 119—55.)

In a poultry-feeder and in combination, a magazine provided with a bottom opening and with a slideway adjacent thereto; a slide closing said bottom opening movable inwardly and outwardly in said slideway, said slide being provided in its upper side with a feed-receptacle; a perch-carrying lever pivotally mounted below said slide; an operating connection between said lever and said slide whereby the slide is moved inwardly and



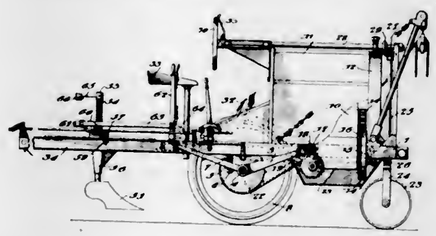
outwardly by rocking movement of said lever; and a spring for yieldingly holding said lever with the perch in elevated position.

1,344,988. BLOW-TORCH. FRED W. CLIFFORD, San Francisco, Calif., assignor to Victor Apparatus Company, San Francisco, Calif, a Corporation of Nevada. Filed Dec. 30, 1918. Serial No. 268,797. 1 Claim. (Cl. 158—27.4.)



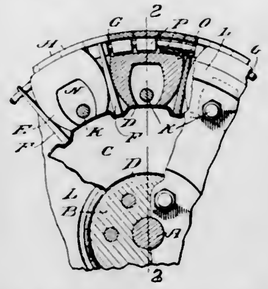
A blow torch comprising a body with a socket plug thereon having an outwardly flared socket therein, and fuel and water connections leading therethrough; a tapered plug fitting said socket and having a mixing chamber therein and fuel and water passages therethrough registering respectively with said similar passages through said socket plug; means for drawing said tapered and said socket plugs together; a nozzle comprising a fuel tube fixed in said tapered plug and open to said mixing chamber; a tip on said fuel tube; and a water jacket surrounding said fuel tube and open to said water passages.

1,344,989. MECHANICAL MOVEMENT. CHARLES CONLON, Lynbrook, N. Y. Filed Nov. 11, 1916. Serial No. 130,857. 3 Claims. (Cl. 74—14.)



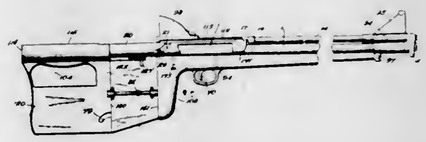
1. In a mechanical movement, a supporting plate, a second plate pivotally connected thereto, a plurality of rack bars mounted through the second mentioned plate, means connecting the bars to insure operation thereof in unison, and means for rigidly holding the second mentioned plate in its adjusted position.

1,344,990. FLEXIBLE SHOCK-ABSORBING WHEEL AND TIRE. RICHARD RALPH À COURT BEADON, Simla, Punjab, British India. Filed Aug. 2, 1918. Serial No. 248,045. 6 Claims. (Cl. 152—29.)



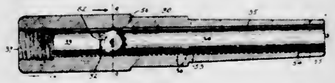
1. In a wheel of the character described, in combination, a hub, plates on opposite sides of the hub and rigid with respect thereto, a pneumatic element surrounding the hub and arranged between the plates, coöperative floating blocks and spacing and supporting members arranged between the side plates and yieldingly supported by the pneumatic element, and a flexible non-resilient tread surrounding the blocks and spacing and supporting members.

1,344,991. MILITARY RIFLE. PAUL B. CUNNINGHAM, U. S. Army. Filed Jan. 16, 1920. Serial No. 351,808. 17 Claims. (Cl. 42—3.)



1. In a shoulder arm the combination of a rear stock provided with a front vertically disposed portion located forward of the breech of the barrel and adapted to be gripped by the right hand; a magazine and breech closing bolt located in said stock in rear of said vertically disposed portion; a rear sight; and a trigger located forward of said sight, substantially as described.

1,344,992. PROJECTILE AND MEANS FOR FIRING SAID PROJECTILE. JOHN W. DARLEY, Jr., Baltimore, Md. Filed May 12, 1915. Serial No. 27,617. 15 Claims. (Cl. 89—1.)

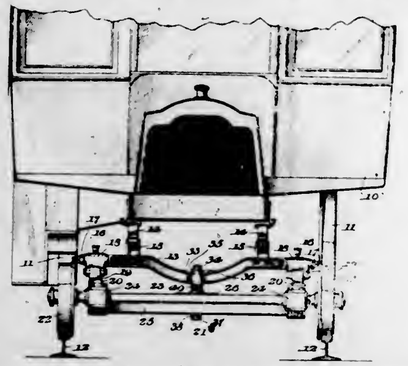


1. The combination with a gun having a bore, of a wall surrounding said bore and a plurality of means formed in the wall of said gun below the surface of said bore for rotating a projectile around an axis at right angles to the axis of said gun.

1,344,993. MOTOR-VEHICLE. FRANK H. DEWEY, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 14, 1918. Serial No. 257,992. 10 Claims. (Cl. 105—197.)

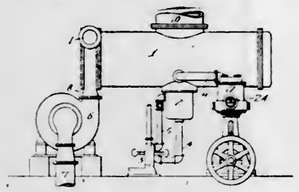
1. The combination with a road motor vehicle, of a front support adapted to be substituted for the usual

front axle and wheels; said support including a truck having railway wheels, a frame supported thereby, a



transverse member adapted to be secured to the vehicle front springs and means to support said member on said frame for pivotal movement about a vertical axis.

1,344,994. CONDENSER SYSTEM AND VACUUM-PUMP. PAUL DISERENS, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed May 31, 1918. Serial No. 237,408. 9 Claims. (Cl. 230—32.)



1. The combination with a condenser, of a vacuum pump having a vertical cylinder connected to the condenser at the top of the pump, a transfer passage in the piston having downwardly opening valves, and discharge valves in the lower part of the cylinder.

1,344,995. FOLDING BED. NAPOLEON B. DOUGLASS, Berkeley, Calif. Filed Sept. 3, 1919. Serial No. 321,442. 2 Claims. (Cl. 5—37.)



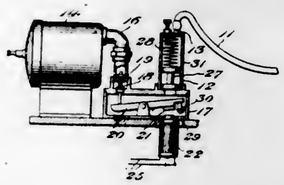
1. In a folding bed, a tubular frame member having a tubular part hingedly connected thereto and a latch for said hinge connection comprising a gravity operated pawl pivotally mounted within one of the tubular parts and extending into the other, said pawl being operative when the bed frame is in horizontal position to retain the parts in extended position, and when the bed frame is vertical to release the parts and allow them to be folded.

1,344,996. SHOE-SECURING DEVICE. ELOISE FOSTER ELLIOT, San Antonio, Tex., assignor of one-half to Mary Foster Whittlesey, New London, Conn. Filed Aug. 1, 1919. Serial No. 314,716. 5 Claims. (Cl. 36—58.5.)



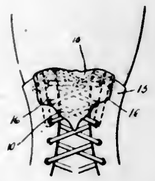
1. The combination with a shoe having fastening buttons, of an attaching device comprising a strap having one end secured to the shoe near the rear of the shoe and having a button hole for receiving one of the fastening buttons of the shoe and means for detachably connecting the ends of the strap together.

1,344,997. SHUTTER-ACTUATING APPARATUS. HANS B. EMMRICK, Giddings, Tex. Filed July 20, 1918. Serial No. 245,875. 2 Claims. (Cl. 95—54.)



1. An apparatus for the purpose described having a cylinder and piston, a pressure chamber in communication with the cylinder, a compressed air reservoir for communication with said pressure chamber, a yieldingly seated valve for controlling communication between said reservoir chamber, an escape port in the reservoir chamber, an electro-magnet and armature of which the latter is connected with said valve, a closure carried by the armature for closing the escape port, and a battery and switch in circuit with said electro-magnet.

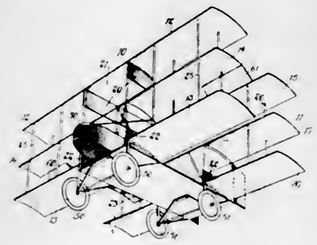
1,344,998. SHOE-LACE-TIE RETAINER. BERNARD E. FAY, Providence, R. I. Filed Nov. 29, 1919. Serial No. 341,431. 1 Claim. (Cl. 2—187.)



A combined shoe ornament and lace tie holder comprising a front plate of a width to hide the lacing knot and curved to conform to the contour of the shoe-upper,

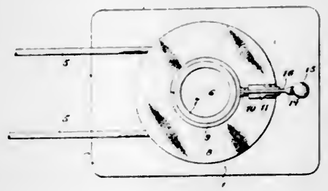
said plate having a pair of resilient attaching and gripping arms extending rearwardly from the upper edge thereof to project over the top edge of the shoe and downwardly into engagement with the inner surface thereof, portions of said front plate opposite said arms also extending downwardly for a substantial distance to engage the outer face of the shoe-upper and oppose the gripping action of said arms against the inner surface thereof, the upper portion of said plate being set forwardly from the plane of the lower portion thereof providing space between it and the shoe-upper for the reception of the knotted portion of the lacing tie.

1,344,999. AIRCRAFT HAVING INHERENT STABILITY. JOHN ANTHONY FLEMING, New York, N. Y. Filed Oct. 2, 1918. Serial No. 256,553. 9 Claims. (Cl. 244—12.)



1. An aircraft, comprising fore and aft sets of spaced transverse sustaining planes, a longitudinally extending stabilizing plane having air retaining side surfaces and connecting the uppermost of the said sustaining planes with each other, and a longitudinally extending stabilizing plane having air retaining side surfaces and connecting the lowermost of the said sustaining planes with each other.

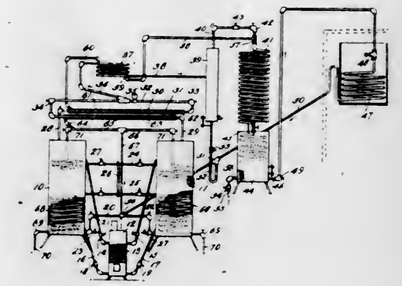
1,345,000. MACHINE FOR MANUFACTURING PISTON-RINGS. HARRY S. FRANK, St. Louis, Mo. Filed July 1, 1918. Serial No. 242,718. 6 Claims. (Cl. 153—10.)



2. A machine operative to change the form of piston rings by centrifugal pressure, comprising a support constructed and arranged to support a piston ring and to change the shape of the piston ring by centrifugal pressure throughout the circumference of the ring, a device for holding a piston ring concentrically upon said support, and means for revolving the support as required to change the shape of the piston ring thereon by centrifugal pressure.

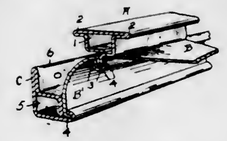
1,345,001. REFRIGERATING-MACHINE. ALONZO L. GIBBS, Wagoner, Okla., assignor of one-half to O. W. Munch, Wagoner, Okla. Filed Mar. 9, 1918. Serial No. 221,460. 1 Claim. (Cl. 62—118.)

In a refrigerating system, a pair of generating tanks having their lower ends provided with a connecting pipe connecting the interiors of the tanks, a heating coil, connections between the upper end of the coil and the upper ends of the said tank, horizontally disposed pipes arranged above the tank and each having one end communicating with one of the said tanks, a condenser coil, and an expansion coil, a pipe connecting the said expansion coil with the said connecting pipe for the said tanks, a separator having connection with the said last mentioned pipe and connected with the said condenser coil, a supply pipe con-



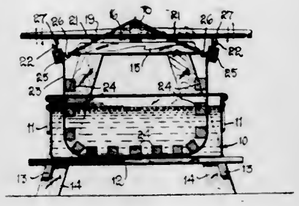
nected to a source of cool water supply, a tube connecting with the said supply pipe and surrounding the said condenser coil, and having one end at the top of the condenser coil equipped with a pipe extension leading from the said tube, a rectifier, the said pipe from the upper end of the tube extending through the length of the coil of the said rectifier in spaced relation to the inner sides thereof, and sleeves surrounding the said horizontally disposed pipes and connected to the said tube surrounding the said rectifier coil.

1,345,002. WALL FURRING-STRIP FOR STEEL CEILINGS. LOUIS J. GRAFF, Pittsburgh, Pa. Original application filed June 30, 1919, Serial No. 307,514. Divided and this application filed Feb. 25, 1920. Serial No. 361,084. 6 Claims. (Cl. 189—88.)



1. A wall furring strip for steel ceilings comprising a hollow box body adapted to rest against the wall, a vertical flange adapted to rest against the wall and to be secured thereto, and a flange extending outwardly from said box only and upon which the lower edge of the ceiling plates rest.

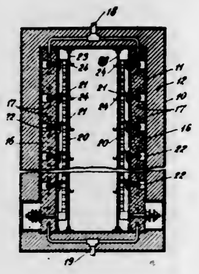
1,345,003. WASHING-MACHINE. SAMUEL GRAY, Oregon City, Oreg. Filed Feb. 24, 1920. Serial No. 360,656. 2 Claims. (Cl. 68—20.)



1. In a hand washing machine, an upwardly opening receptacle, a flexible rubber having its intermediate portion depending within the receptacle and having its opposite

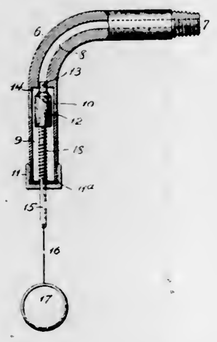
ends projecting above the opposite ends of the receptacle and provided with rigid cross pieces, a handle bar fulcrumed to rock in a vertical plane above the receptacle and to the opposite sides of the fulcrum of which the said cross pieces are detachably connected centrally between their ends, and flexible controlling connections leading from the point of fulcrum of the handle bar in diverging relation and detachably connected to the said cross pieces adjacent to the outer ends of the latter.

1,345,004. ELECTRIC BROILER. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Mar. 4, 1916. Serial No. 82,071. 7 Claims. (Cl. 219—19.)



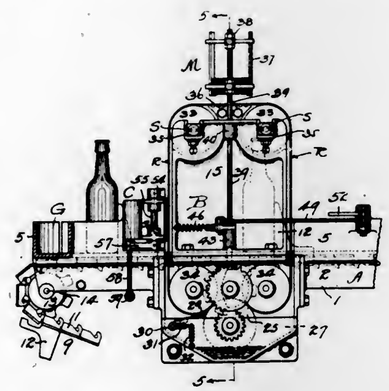
1. A heater comprising a heated body having a working surface and a large heat capacity, thermal insulation for preventing the dissipation of heat therefrom except from the working surface thereof, and a radiant electric heater element spaced at a short distance from the working surface of the body, whereby the temperature of the heater is the resultant of the heat generated electrically in the radiant heater and heat supplied thereto from the adjacent body.

1,345,005. OIL-INDICATOR FOR CRANK-CASES OF AUTOMOBILES. JOHN W. HARRISON, Atlanta, Ga. Filed Sept. 4, 1919. Serial No. 321,559. 2 Claims. (Cl. 184—13.)



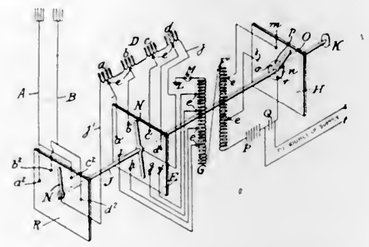
1. In an oil indicator for the crank case of an automobile, a pipe secured to the case and having a valve seat therein and a discharge opening in the side of the pipe at the rear of the valve seat, a closure for the outer end of said pipe, a valve in said pipe and adapted to engage the seat, the stem of the valve passing through the end closure on the pipe, a spring for normally holding the valve seated and a wire connected with said stem and terminating at a point where it can be readily reached and manipulated.

1,345,006. LABELING-MACHINE. LOUIS A. HAWTHORNE, Newark, N. J., assignor to Steel Utilities Incorporated, a Corporation of New York. Filed July 26, 1917. Serial No. 182,890. 10 Claims. (Cl. 216—54.)



2. A labeling machine including a pair of spaced endless label carrying belts arranged at each side of a container guide-way, means arranged beneath the container guide-way for supplying adhesive to said belts, and an auxiliary adhesive supplying device arranged between said spaced belts and above the container guide-way and out of the path of the containers.

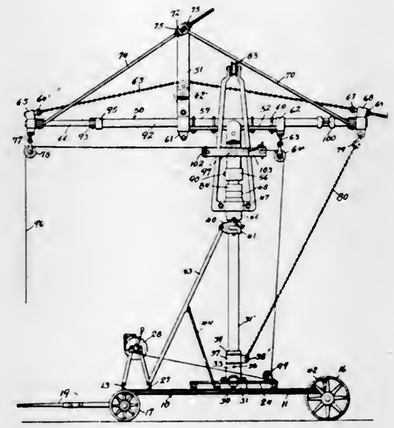
1,345,007. WAVE-CHANGER FOR RADIOSIGNALING APPARATUS. GUY HILL, Washington, D. C. Filed Oct. 7, 1918. Serial No. 257,180. 17 Claims. (Cl. 250—40.)



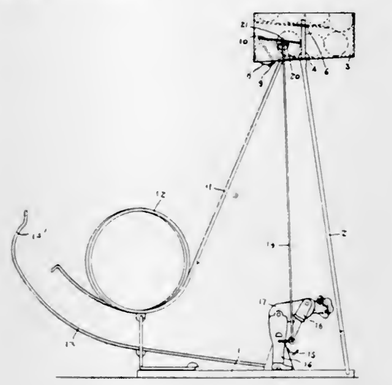
1. In radio signaling apparatus for signaling with a plurality of wave lengths on each of a plurality of antennæ, the combination of a plurality of antennæ adapted to be separately connected in circuit and having various characteristics as to inductance and capacity, an oscillation transformer, an inductance having a plurality of sections, switching mechanism for simultaneously maintaining a predetermined coupling and adjusting for a plurality of different wave lengths on each of said antennæ, said switching mechanism having connections to variable connections on said inductance sections and said variable connections serving to compensate for antenna variations.

1,345,008. PORTABLE GENERAL-UTILITY DERRICK. JOSEPH M. HILL, Twin Falls, Idaho. Filed Mar. 6, 1920. Serial No. 363,881. 7 Claims. (Cl. 212—55.)

2. In a portable collapsible derrick, a wheeled truck, an axle pivoted to the frame of said truck, a mast on said axle, means on said frame for receiving said mast when in collapsed position, means on said mast for holding said mast in vertical position, a boom rotatably mounted on said mast and detachable therefrom, and elevating means carried by said mast for raising said boom out of contact with said mast.



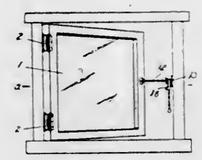
1,345,009. TOY. PERCY V. JERMYN, Port Credit, Ontario, Canada. Filed July 7, 1919. Serial No. 308,989. 5 Claims. (Cl. 46—37.)



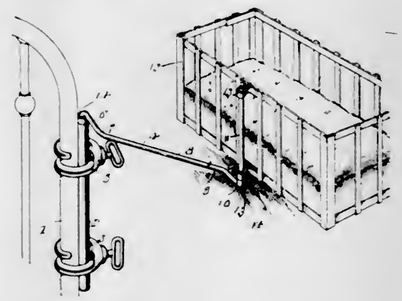
1. A toy, comprising, a receptacle adapted to contain a plurality of balls, an inclined run-way leading from said receptacle and having an upwardly turned lower end, a secondary run-way having an upwardly curved end extending into line with and beyond the discharge end of the aforesaid inclined run-way and passing beneath the same and adapted to guide the balls in a reverse direction, means for withholding the balls from said run-ways, and means actuated by the passage of the balls from the secondary run-way for releasing the next succeeding balls to the first run-way.

1,345,010. WINDOW-OPERATING DEVICE. CLARENCE VICTOR JONES, Toronto, Ontario, Canada. Filed Oct. 14, 1918. Serial No. 257,952. 1 Claim. (Cl. 268—21.)

The combination of a window frame, an automatically opening window sash mounted therein, a chain connected to the sash for closing it, a bracket secured to the window frame and having a bar projecting outwardly therefrom to support the chain, a clamping lever pivoted transversely above the chain in said bracket and having an intermediate ratchet tooth automatically engaging the links of the chain above said bar, the free end of the lever extending longitudinally above the outer portion of the chain and adapted to be raised and released thereby when the outer portion of the chain is raised.

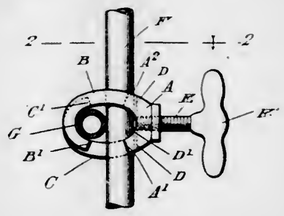


1,345,011. FURNITURE-BRACKET. SIMON JONES, New York, N. Y. Filed Apr. 4, 1919. Serial No. 287,383. 5 Claims. (Cl. 5—59.)



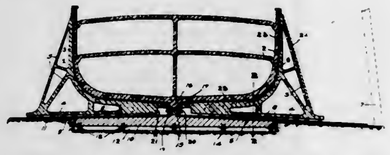
1. The combination in a furniture bracket of a hollow tubular member adapted to be removably attached to a fixed cylindrical support; and a bracket arm adapted to be extended partially around said fixed cylindrical support, and having a depending portion adapted to extend within said tubular member, a curve adjacent said depending portion, an upwardly extending portion adapted to receive thereon an article of furniture, and an oppositely disposed curve adjacent said upwardly extending portion, said curves adapted to position the depending and upwardly extending portions at equal distance on opposite sides of the vertical plane of the middle portion of the arm.

1,345,012. HOLDER. SIMON JONES, New York, N. Y. Filed Sept. 12, 1919. Serial No. 323,373. 7 Claims. (Cl. 304—40.)



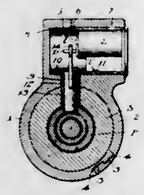
1. A holder comprising a body portion, two shanks extending from said body portion and provided with ends describing substantially parallel hooks oppositely disposed relatively to said shanks.

1,345,013. REINFORCED-CONCRETE-SHIP MOLD. GUSTAVUS E. KASTENGREN, Seattle, Wash., assignor to Concrete Craft Corporation, Seattle, Wash., a Corporation of Washington. Filed Apr. 17, 1918. Serial No. 229,022. 10 Claims. (Cl. 25—130.)



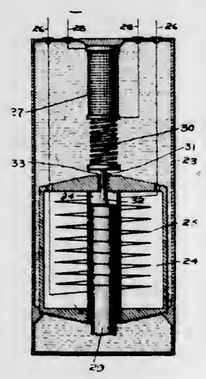
2. An external mold for the construction of reinforced concrete ships comprising a longitudinally extending keel block, and a plurality of mold sections arranged side by side on each side of said keel block and adapted to be secured thereto said mold sections being movable toward and away from said keel block.

1,345,014. LOCK FOR AUTOMOBILES. HENRY A. KENDALL, Baltimore, Md., assignor, by direct and mesne assignments, to The Efficiency Engineering Company, Baltimore, Md., a Corporation of Maryland. Filed Aug. 1, 1919. Serial No. 314,613. 5 Claims. (Cl. 70—90.)



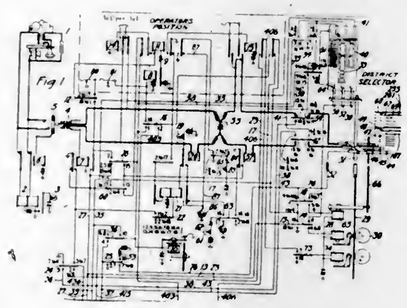
1. In an automobile lock, the combination with interlocking clamp members adapted to inclose and bind upon a steering column, said clamp members having a lock-bolt opening and openings for the reception of a lock casing, of a tubular lock casing having means for interlocking engagement with said clamp members.

1,345,015. COMPRESSION-RHEOSTAT. OTTO A. KNOPP, Oakland, Calif. Filed Oct. 16, 1916. Serial No. 125,862. 5 Claims. (Cl. 219—51.)



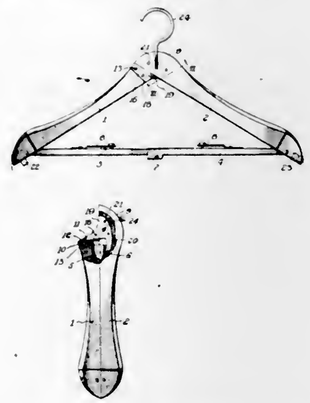
1. A rheostat including an inclosing casing containing a liquid; a compression rheostat immersed in said liquid; a solenoid immersed in said liquid and having a core adapted to compress said compression rheostat; and a dash pot between said core and the top of said solenoid.

1,345,016. TELEPHONE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., and FRANKLIN A. STEARN, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 22, 1918. Serial No. 246,234. 59 Claims. (Cl. 179—27.)



1. In a telephone system, an operator's position, cord circuits thereat, a plurality of cord finder switches, a plurality of senders, and a plurality of link circuits for connecting any one of said cord circuits to any one of said senders, each of said link circuits terminating in several of said cord finder switches.

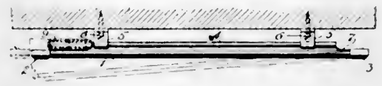
1,345,017. GARMENT-HANGER. WILLIAM A. MCGINNIS, Detroit, Mich. Filed Sept. 15, 1919. Serial No. 323,874. 2 Claims. (Cl. 211—13.)



1. In a garment hanger, the combination with hanger arms having the outer ends thereof connected by spreader arms, of a socket member mounted on the end of one of said hanger arms and providing a central channel and side channels with the latter disposed to embrace side walls of said hanger arms, and a pivot plate mounted in the other hanger arms and extending into the central channel of said socket member and pivotally connected thereto.

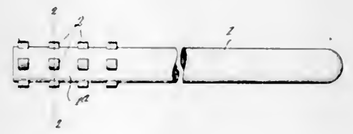
1,345,018. BRACKET AND HOLDER FOR REAR-VISION MIRRORS. HARRY A. MACFARLAND and AUGUST J. ROTH, Mount Vernon, N. Y., assignors to the Mount Vernon Company—Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Mar. 4, 1920. Serial No. 363,112. 3 Claims. (Cl. 45—97.)

2. A mirror holder comprising a shaft, a bracket for supporting said shaft and in which said shaft may be adjusted angularly, a mirror holding clip carried by said shaft at one end and non-rotatable relatively thereto, another clip carried by said shaft at the opposite end



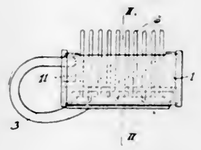
and slidable longitudinally thereon, whereby the same may be moved to and fro relatively to the first mentioned clip for the purpose of engaging or disengaging a mirror.

1,345,019. LAUNDRY-STICK. BERT H. MILLYARD, Cheyenne, Wyo. Filed July 25, 1918. Serial No. 246,787. 1 Claim. (Cl. 68—6.)



In a laundry stick, a cylindrical body and a plurality of radially projecting integral gripping elements carried thereby and disposed in series in alinement longitudinally and circumferentially of the body, said gripping elements being of substantially rectangular cross section and having the outer faces curved concentric with said body and their edges rounded.

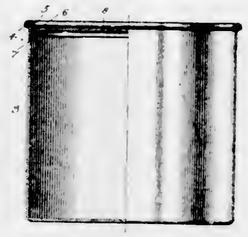
1,345,020. COMBINATION-LOCK. JONAS NÄSLUND, Rimbo, Sweden. Filed Apr. 15, 1920. Serial No. 374,169. 2 Claims. (Cl. 70—113.)



1. A combination lock including a cylindrical casing having a longitudinal slot, a core mounted within the casing provided with a longitudinal groove, a shackle having a longitudinal slotted extension slidably arranged in the groove in the core, and a plurality of ring-like elements rotatably mounted on the core within the casing having portions cut away so that the remaining portions of the ring-like elements are of various sizes and designed for engagement with the slotted extension of the shackle for locsking the shackle within the casing, and means for facilitating the turning of the ring-like elements so as to disengage the ring-like elements from the slotted extension to permit of the release of the shackle.

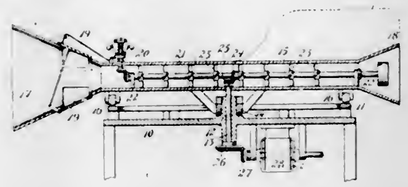
1,345,021. CONTAINER. SAMUEL W. OGLESBY, London, England, assignor to Hugh Stevenson & Sons, Limited, Manchester, England, a Limited Company of the Kingdom of Great Britain. Filed Jan. 5, 1920. Serial No. 349,441. 1 Claim. (Cl. 229—3.)

The combination of an open mouthed container of fibrous plastic material, and a continuous sheet metal reinforcing ring clamped to the margin of said mouth, said ring including a rounded bead embracing said margin and projecting inward with reference to the container, a flange also projecting inward below said bead, and a



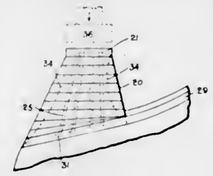
groove between said flange and bead adapted to receive and confine the edge of an insertible disk larger than the opening within said bead.

1,345,022. AIR-MOTOR. DEW R. OLIVER, San Francisco, Calif. Filed Nov. 11, 1918. Serial No. 262,005. 1 Claim. (Cl. 170—40.)



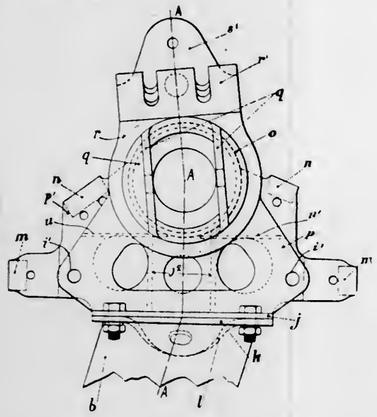
A wind regulated motor consisting of a horizontally supported tube mounted to be turnable about a vertical axis and having divergent inlet and exit ends, a shaft journaled centrally in the tube with a series of propellers fixed to it at intervals of its length and driven by the air blast passing through the tube, the divergent inlet mouth having openings around its sides and shutters hinged and connected to control the movements of the shutters, a governor driven by the propeller shaft, and connections by which variations in the speed of the shaft will be communicated to open or close the shutters and allow a proportionate amount of air to escape from the inlet funnel without entering the propeller tube.

1,345,023. SHOE-HEELING METHOD. ANGELO PERRI, Watertown, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Original application filed Nov. 11, 1918. Serial No. 262,104. Divided and this application filed April 10, 1919. Serial No. 290,605. 2 Claims. (Cl. 12—147.)



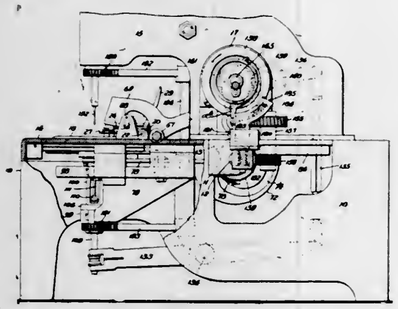
1. A shoe heeling method comprising driving a series of nails divergingly into the heel top, leaving the nail ends outstanding, bending them into substantial parallelism, driving the nails further to enter the shoe, leaving the nail ends slightly outstanding, and forcing a top lift upon said nail ends.

1,345,024. JUNCTION-PIECE FOR CONNECTING TOGETHER CERTAIN STRUCTURAL MEMBERS OF AEROPLANES. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), of Billancourt, France. Filed Dec. 19, 1918. Serial No. 267,547. 2 Claims. (Cl. 244—31.)



1. A junction piece for aeroplane members comprising a central sleeve part in which a cross member of the fuselage is adapted to be riveted, opposite lower vertical plates and horizontal truss plates welded to said sleeve and forming a channel adapted to receive a fuselage longitudinal, means carried by the corresponding strut of the landing carriage and adapted to be secured to said lower vertical plates, bolts extending through said plates and the fuselage longitudinal, a socket member for a vertical stanchion welded upon the said central sleeve and a lug carrying plate welded to the end of the central sleeve and adapted to receive a wing beam.

1,345,025. BUTTONHOLE-SEWING MACHINE. FRED A. READ, Lynn, Mass., assignor to Reece Buttonhole Machine Company, Boston, Mass., a Corporation of Maine. Filed June 27, 1917. Serial No. 177,392. 33 Claims. (Cl. 112—71.)



1. In a buttonhole sewing machine, stitch-forming mechanism located above the work; means for causing relative feed between the work and stitch-forming mechnism to carry the seam around the buttonhole contour; a complemental stitch-forming mechanism including a needle located below the work; means to reciprocate the said needle for its greatest throw; and means external of said first-mentioned means acting independently thereof adapted to give the said needle a supplemental reciprocation of less movement.

1,345,026. BODY-RUBBING DEVICE. DANIEL E. RILEY, Seattle, Wash. Filed Dec. 14, 1918. Serial No. 266,687. 2 Claims. (Cl. 128—63.)



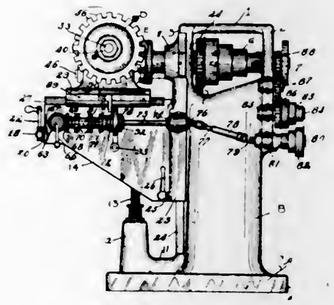
1. A body rubbing device comprising a fabric strip folded and stitched to form pockets near the middle of its length for the reception of a compressible filler, and pockets stitched in the fabric at the ends of said strip for the insertion of the user's hands.

1,345,027. DETACHABLE DEVICE FOR OPERATING AWNING-WINCHES. AUGUST B. RIPPE, Salt Lake City, Utah. Filed Dec. 28, 1918. Serial No. 268,611. 7 Claims. (Cl. 81—3.)



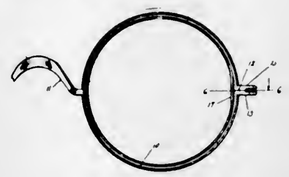
2. In a detachable device for operating awning winches, a stem adapted to be fastened to the driving member of a winch, hooks projecting outwardly and upwardly from the lower part of the said stem, a rod separate from the said stem, hook standing portions originating at an end of the said rod and extending away therefrom, turn portions adjacent the standing portions, point portions adjacent the turn portions, the said standing portions, turn portions and point portions forming hooks adapted to interlock with the said stem hooks for the purpose of attaching the said rod to the said stem.

1,345,028. GEAR-CUTTING MACHINE. HENRY J. SCHMICK, Lock Haven, Pa. Filed Nov. 25, 1914. Serial No. 873,028. 36 Claims. (Cl. 90—4.)



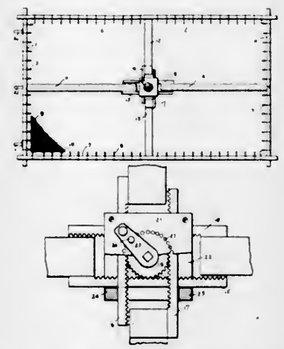
1. In a gear cutting machine, the combination of a cutter head having a plurality of cutters projecting from one face thereof, said cutters being arranged in a curved line, each succeeding cutter being located a greater distance from the center of the cutter head, each succeeding cutter having its sides arragned at different angles, a gear blank holder having its axis at right angles to the axis of the cutter head to present the periphery of a gear blank at right angles to the said cutter head, means for continuously rotating the gear blank holder and the cutter head in unison, and means for creating continuous relative movement before the cutter movement and the gear blank holder during the cutting operation.

1,345,029. OPHTHALMIC MOUNTING. WAYNE S. SEARLES, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 4, 1919. Serial No. 335,593. 2 Claims. (Cl. 88—47.)



1. A non-metallic rim for a lens frame formed of a continuous annular band internally grooved to receive the lens frame, one side wall of the grooved portion being notched to receive the end piece on the frame and that portion of the rim adjacent said notch being increased in cross-sectional area over that of the corresponding portion of the rest of the rim to render the notched portion as strong as that of the balance of the rim.

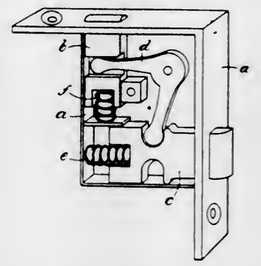
1,345,030. FABRIC-FRAME. ALBERT B. SIMON, San Francisco, Calif. Filed Mar. 10, 1920. Serial No. 364,698. 4 Claims. (Cl. 45—24.)



1. In a frame for stretching and drying fabric and the like, a plurality of members arranged polygonally and movable relatively at right angles to their length, a rack for each member arranged at right angles thereto, a pinion to operate the racks and means supporting the racks about the pinion, substantially as and for the purpose set forth.

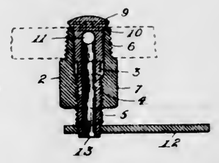
1,345,031. DOOR-BOLT. EDWIN JOSEPH SMITH, London, England. Filed Sept. 4, 1919. Serial No. 321,676. 2 Claims. (Cl. 292—146.)

1. A door bolt comprising a casing, two spring-supported bolts arranged at right angles in said casing, one bolt having a rounded end, the rounded portion projecting normally from the casing, the other bolt being beveled, the beveled portion projecting normally from the casing, and a bell-crank lever arranged in the casing and engaging the two



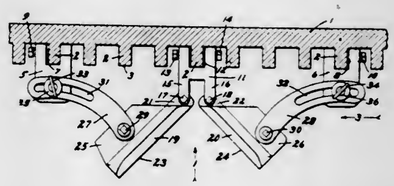
bolts so as to cause the round-ended bolt to be shot completely when the beveled bolt is forced into the casing, substantially as and for the purpose set forth.

1,345,032. DRAIN-COCK. OSCAR A. SMITH, Cleveland, Ohio. Filed Apr. 3, 1919. Serial No. 287,244. 11 Claims. (Cl. 251—8.)



1. A two-part drain cock comprising a body, a valve adapted to have its head lie adjacent to the surface of the structure in which the body is mounted and having therebelow an integral hollow stem, the body having an axial bore for the stem and a seat for the valve, the valve cooperating with said seat and adapted to open in a direction opposite to the flow of the fluid, the hollow stem having a transverse opening below said valve whereby the fluid is drained through said opening below said valve into and through the stem, the axial bore of the body having a set of threads, and the hollow stem also having a set of threads coöperating therewith.

1,345,033. ANGLE-GAGE ATTACHMENT FOR PAPER-CUTTING MACHINES. HERMAN STENGEL, Los Angeles, Calif., assignor to Anthony J. Otten, Los Angeles, Calif. Filed Sept. 22, 1919. Serial No. 325,590. 3 Claims. (Cl. 164—39.)



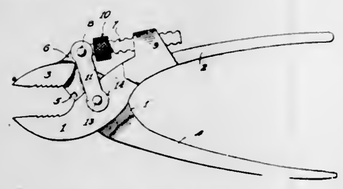
1. An angle gage attachment for paper cutting machines having a straight back gage including vertical ribs; the attachment comprising outer attaching blocks having notches adapted to receive the ribs, set screws in the outer attaching blocks to engage the ribs, a central attaching block having a notch to receive a rib, set screws in the central attaching block to engage opposite sides of the rib, angle gage plates pivotally connected to the central attaching block, links pivotally connected to the the angle gage plates and bearing upon the outer attaching blocks

and having longitudinally extending slots, and cap screws inserted through the slots and tapped into the outer attaching blocks; so that by manipulating the cap screws the angle gage plates may be adjusted.

1,345,034. RECOVERY OF SOLUBLES FROM FLUE-DUST. RAYMOND B. STRINGFIELD, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Dec 7, 1917. Serial No. 206,122. 6 Claims. (Cl. 23—22.)

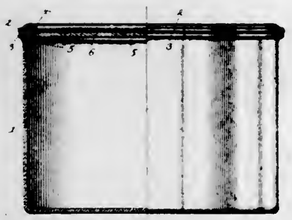
1. The process of recovering potassium compound from solid material containing potassium, calcium and the sulfate radical, which consists in treating such material with water, in such manner as to produce a solution containing potassium sulfate and calcium sulfate in such concentration that a relatively insoluble double sulfate of potassium and calcium is also produced, then separating such concentrated solution from the insoluble material and adding to said insoluble material enough water to reduce the potassium sulfate concentration of the mixture sufficiently to decompose said double salt and bring a further quantity of potassium sulfate into solution, and treating the resulting dilute solution, to recover the potassium compound therefrom.

1,345,035. PLIERS. DAN B. SWICKARD, Galva, Ill. Filed July 25, 1919. Serial No. 313,365. 3 Claims. (Cl. 294—43.)



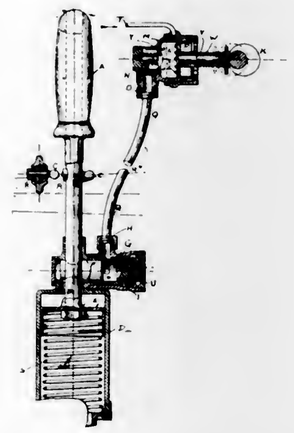
1. A pliers including its jaws pivotally connected, one of said jaws having an ear extending from its outer edge, a link pivoted at one end to said ear and at its other end at the pivot of the jaws, a looped portion extending from the handle portion of one of the jaws, a thread-bar pivoted to said ear and slidable within said portion, and a member adjustable upon the thread-bar between the ear and said portion.

1,345,036. CONTAINER. HENRY GEORGE THOMPSON, London, England, assignor to Hugh Stevenson & Sons Limited, Manchester, England, a Limited Company of the Kingdom of Great Britain. Filed Jan. 5, 1920. Serial No. 349,413. 3 Claims. (Cl. 229—3.)



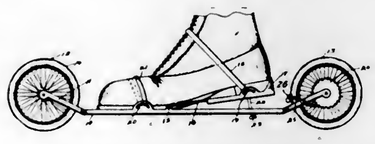
1. A container comprising a hollow body of plastic fibrous material, said body having a reinforced mouth formed by upsetting the material upon itself to give an annular thickened portion near the free edge of the material, the material beyond said thickened portion being turned into the mouth against said thickened portion with its extreme edge flanged inward to form a closure seat.

1,345,037. AERO-ENGINE CONTROL. STANLEY M. UDALE, Buffalo, N. Y. Filed Jan. 21, 1918. Serial No. 212,980. 5 Claims. (Cl. 123—98.)



1. The combination of an operating hand lever, a rod slidably mounted therein, a piston connected to said rod and a cylinder connected to said hand lever in which cylinder the piston is slidable, an air pump and a pipe connecting said pump and said cylinder, a spring to act on the cylinder against the pressure caused by the pump, and means to cause the pressure in the cylinder and the pump to equalize.

1,345,038. ROLLER-SKATE. JOSEPH D. UPPLING, Roxbury, Mass. Filed Dec. 11, 1918. Serial No. 266,235. 2 Claims. (Cl. 46—51.)



1. A skate comprising a [illegible] frame including a body plate and ground wheels, a [illegible] plate hinged to the intermediate portion of the body [illegible] and extending rearwardly thereover, means for engaging the shoe carried by said hinged plate, and means for engaging the shoe carried by the main frame forwardly of the hinge.

1,345,039. SAFETY-RAZOR. ALESSANDRO VALENTE, MICHAEL CURZON, and SAMUEL CURZON, London, England. Filed Jan. 9, 1920. Serial No. 350,449. 9 Claims. (Cl. 30—12.)



1. A safety razor comprising a combined handle and guard component, a clamping plate component, a blade interposed therebetween, a spring pressure element, upstanding portions on one component extending through the blade and the other component, the said upstanding portions at the ends remote from their connection with the first mentioned component being so formed as to co-

operate with the other component to engage and hold the said spring pressure element whereby a clamping or drawing together of the components is effected for the purpose described.

1,345,040. CURLER. OLIVE E. VANDAMARK, Los Angeles, Calif. Filed July 6, 1916. Serial No. 107,771. 8 Claims. (Cl. 132—18.)



1. A hair curler, comprising a flexible tubular body, a series of ventilating perforations formed throughout the length and circumference of said tubular body, resilient fixed fasteners secured to and extending lengthwise of the tubular body and adapted to hold the end of a lock of hair to be wound upon the body, longitudinally extending slots formed in the ends of the tubular body, and a removable flexible fastener adapted to be positioned within said slots to hold the lock of hair upon the tubular body and in its wound position.

2. A hair curler, comprising a flexible tubular non-metallic body, longitudinal corrugations extending throughout the length of said tubular body, a series of perforations formed through the wall of said body, fixed flexible fasteners extending lengthwise of the tubular body and parallel to each other, and a flexible detachable fastener adapted to engage the opposite ends of the tubular body and extend lengthwise and upon opposite sides thereof.

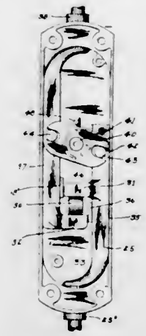
3. A hair curler comprising a cylindrical elastic body soft and yieldable throughout formed with V-cuts at its ends and having open ended longitudinal slits opening to the V-cuts, and an elastic band adapted to encircle the body longitudinally and be engaged in the slits.

4. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and formed with a series of ventilating perforations and corrugated longitudinally, said body being provided with slits at its ends terminating in perforations, and a removable flexible fastener adapted to be positioned within said last named perforations to hold a lock of hair wound on the body.

5. A hair curler comprising a resilient and elastic tubular body capable of being doubled upon itself and having a series of ventilating perforations formed therein and having open ended slits at its ends terminating in perforations, and a removable flexible fastener adapted to be positioned within said last named perforations to hold a lock of hair wound on the body.

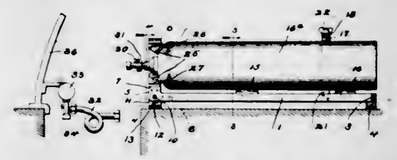
1,345,041. PANIC-BOLT. HENRY G. VOIGHT, New Britain, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Dec. 8, 1917. Serial No. 206,323. 13 Claims. (Cl. 292—21.)

1. In a panic bolt, a pair of oppositely moving sliding bolt members, an operating member adapted to be moved in one direction into direct coöperation with one of said members and to be moved in the opposite direction into direct coöperation with the other member, and a walking beam for operatively connecting said bolt members where-



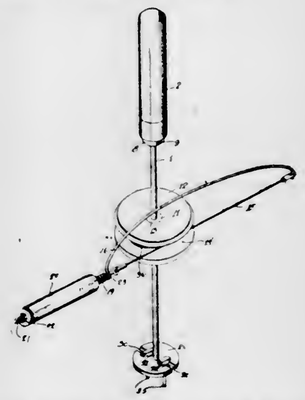
by the operation of one bolt member operates the other bolt member.

1,345,042. MEANS FOR SUPPORTING GAS-HOLDING CYLINDERS. MAX VON RECKLINGHAUSEN, New York, N. Y., assignor to Air Reduction Company, New York, N. Y., a Corporation of New York. Filed Feb. 16, 1917. Serial No. 149,153. 8 Claims. (Cl. 248—20.)



1. A frame for supporting a member, said frame being provided with rotatable supporting means intermediate its ends for supporting said member, said supporting means being adapted to rotate in planes substantially parallel to the axis of said member and also with supporting means at one end for contacting with different points upon the end portion of said cylinder to support said cylinder when it is in upright or partially upright position.

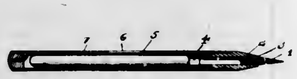
1,345,043. VALVE-GRINDING TOOL. JOSEPH E. WAINWRIGHT, Brooklyn, N. Y. Filed Aug. 9, 1919. Serial No. 316,347. 4 Claims. (Cl. 51—29.)



3. A valve grinding tool comprising a spindle having a grooved wheel fixed intermediate its ends, an actuating

member comprising a spring bow formed of a length of resilient wire having one terminal provided with a coupling member and the other terminal provided with a socket, a flexible belt provided with a loop passing around the said groove in the pulley, one end of the said belt being joined to the said coupling member at one end of the said bow, a handle for the said bow, a longitudinally adjustable rod passing through the said handle and through the said socket and having one end fixed to the adjacent end of the said belt, and means to adjust the said rod in the said handle to vary the tension of the said belt.

1,345,044. PEN. HALFORD B. WARDIN, Rochester, N. Y. Filed Apr. 12, 1919. Serial No. 289,730. 1 Claim. (Cl. 120—43.)



A pen comprising a cylindrical body having a conical end formed thereon, said conical end being divided into a series of pen points, said pen points having notches cut into the sides thereof adjacent to one another to form openings in the conical end of the pen, and a feeding tube projecting into the conical end of said pen, said feeding tube being cone shaped and having openings in the side thereof adjacent to the openings in the pen.

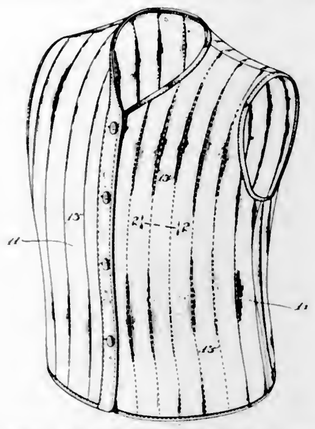
1,345,045. HIGH-SPEED STEEL AND PROCESS OF FORMING AND FORGING THE SAME. JAMES P. WATERS, Detroit, Mich., assignor, by mesne assignments, to Forge Products Corporation, Ann Arbor, Mich., a Corporation of New York. Filed Aug. 16, 1916. Serial No. 115,221. 10 Claims. (Cl. 148—12.)



6. The process of forming articles from high speed steel, comprising the cutting of the blank from stock of lesser diameter than the finished article, heating and upsetting said blank to diminish the length and increase the diameter thereof and thereby to increase the density and homogeneity of the metal, and re-fashioning in dies to the desired form.

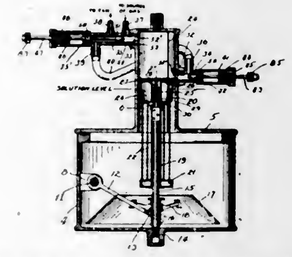
1,345,046.—HEAT-INSULATING FABRIC. FRANK V. WEDLOCK, Chicago, Ill., assignor to Featheredge Rubber Company, a Corporation of Illinois. Filed Apr. 17, 1918. Serial No. 229,017. Renewed Dec. 26, 1919. Serial No. 347,636. 6 Claims. (Cl. 154—44.)

1. As an article of manufacture a heat insulating fabric consisting of a body portion of a perforated material of an elastic nature, the said material also being incapable of absorbing liquids or moisture except within and through the said perforations thereof, and a strengthening material of a woven fibrous texture over the exposed surfaces of



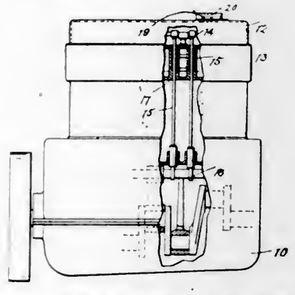
the said elastic material, the said fibrous covering material being capable of absorbing liquids or moisture.

1,345,047. AUTOMATIC GAS-ANALYZER. SHIRLEY S. WEEKS, Oakland, Calif. Filed Jan. 27, 1919. Serial No. 273,433. 22 Claims. (Cl. 23—3.)



9. A gas analyzer comprising a vessel having a gas chamber, an absorbent solution in said vessel, a piston buoyantly carried by said solution and movable through said chamber, and means within said vessel and normally disconnected from said piston for moving it through said gas chamber.

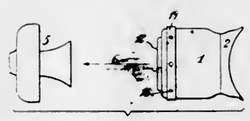
1,345,048. INTERNAL-COMBUSTION ENGINE. GEORGE A. WEIDELY, Indianapolis, Ind., assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed June 27, 1919. Serial No. 307,059. 1 Claim. (Cl. 123—195.)



The combination with an internal combustion engine, of a cover which is secured over the valve operating rockers

and upper ends of the tappet rods by which said rockers are operated, which cover has a hole through it, and a breather hood which is secured to said cover over said hole and has a single air admitting opening in its rear end.

1,345,049. TELEPHONIC APPARATUS. MAXIMILIAN WEIL, New York, N. Y., assignor, by mesne assignments, to National Phone Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 30, 1916. Serial No. 87,861. 12 Claims. (Cl. 179—188.)



12. A device for use with a sound receiving object, having a member provided with a sound receiving passage and further provided with a sound responsive vibratable element, comprising a casing, and a mouth piece for said casing constructed to substantially completely inclose the mouth of the user but leaving the nose of the user open to the free atmosphere, said casing being provided with an exit opening, said exit opening when the casing is in use being spaced from said member through the free atmosphere.

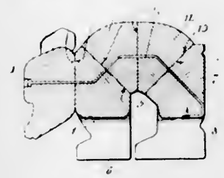
1,345,050. CASE-HARDENING. SAMUEL WHYTE, Redhill, England. Filed Oct. 10, 1917. Serial No. 195,837. 4 Claims. (Cl. 148—15.)

1. The method which consists in submitting articles of iron or steel to the action of a bath of molten borax in the presence of carbon and at such temperature of the bath and for such time of treatment that a casing of high carbon-iron (white iron) is formed on the article.

1,345,051. MANUFACTURE OF IRON AND STEEL. SAMUEL WHYTE, Redhill, England. Filed July 24, 1917. Serial No. 182,577. Renewed May 1, 1920. Serial No. 378,260. 6 Claims. (Cl. 75—27.)

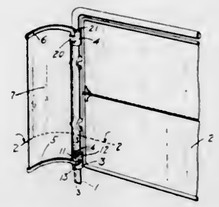
1. A process for the elimination of silicon as required from cast irons by heating the iron to a suitable temperature with borax or materials producing borax together with carbon, preferably in the form of graphite, with or without the introduction of air, substantially as described.

1,345,052. JOINTED FIGURE. DAVIS S. WILLIAMS, Los Angeles, Calif. Filed Oct. 27, 1919. Serial No. 333,768. 7 Claims. (Cl. 46—40.)



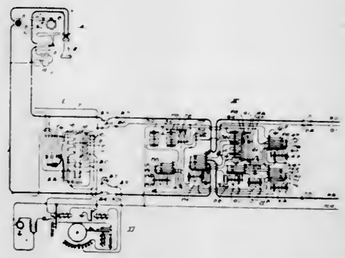
1. A jointed figure of the class described combining a plurality of sections having coöperating bearing surfaces, and means connecting the sections in relative rotative relation, the coöperating bearing surfaces being of duplicate size and contour to permanently maintain the continuity of the surface of the figure during all rotative adjustment of the several sections.

1,345,053. AUXILIARY WINDSHIELD. EARL B. WILLIAMS and BERNARD E. RIEG, Los Angeles, Calif. Filed May 28, 1919. Serial No. 300,421. 3 Claims. (Cl. 296—84.)



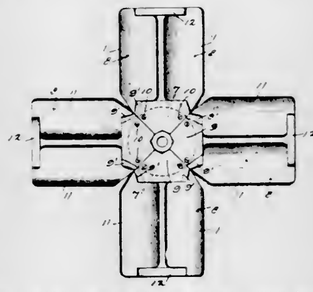
1. The combination with a main plane windshield, of a rearwardly curved auxiliary windshield pivoted so as to be adjustable to different angular positions radiating from the side line of the main windshield.

1,345,054. AUTOMATIC TELEPHONE SYSTEM. BERNARD D. WILLIS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 8, 1914, Serial No. 830,399. Renewed Aug. 1, 1918. Serial No. 247,862. 25 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic switch having a plurality of operating magnets, means for switching a connection from one to the other of said operating magnets, means including an impulse controller and an impulse circuit over which current flows when closed for controlling said operating magnets by impulses of one character over said circuit, and for controlling said switching operation by impulses of a second character over said circuit, the resistance of the circuit when thus closed being the same in both operations.

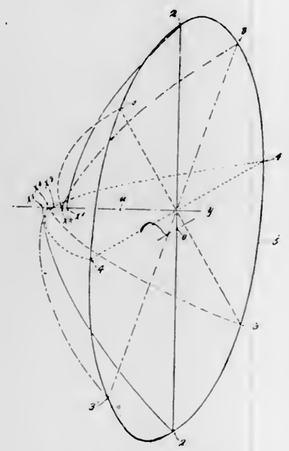
1,345,055. AUTOMOBILE-FAN. LE ROY WILLOUR, Ashland, Ohio, assignor to The Ashland Products Company, Ashland, Ohio, a Corporation of Ohio. Filed May 6, 1919. Serial No. 295,132. 3 Claims. (Cl. 170—165.)



3. A fan of the character described, comprising a hub, a plurality of blades secured to the hub, each blade being formed of a section of sheet metal having a pair of blade-elements stamped therefrom, one blade-element of each

pair having its forward edge projecting beyond the forward edge of the other blade-element in the same pair, such other blade-element having its rear edge projecting beyond the rear edge of the first-named blade element in the same pair, and transverse portions connecting the inner and outer ends of each pair of blades.

1,345,056. HEADLIGHT. OVERTON WINSTON, Minneapolis, Minn. Filed Aug. 2, 1916. Serial No. 112,683. 11 Claims. (Cl. 240—41.)

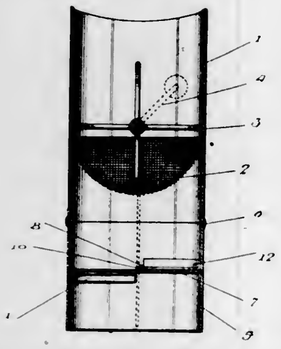


1. A headlight set for approximately horizontal projection and comprising a reflector and a light source therein, said reflector having a surface substantially corresponding to a surface generated by a conic revolved in a downward direction on the approximately horizontal axis of the conic while increasing the distance from said light source of its vertex or point of intersection with said axis.

1,345,057. INSULATING AND SEALING COMPOSITION. GEORGE O. BASSETT, Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 8, 1917. Serial No. 173,560. 7 Claims. (Cl. 106—33.)

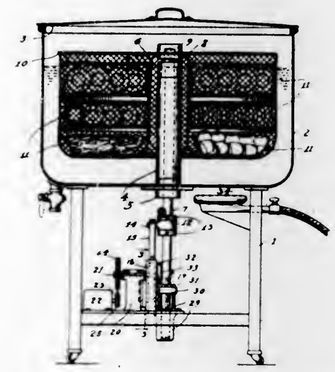
5. A plastic composition comprising asphaltic material, a wax, a vegetable oil, and 20 to 35 parts of hardened resin.

1,345,058. HOUSEHOLD SIFTER. EDWARD M. BECKMAN, Chesterton, Ind. Filed Dec. 13, 1919. Serial No. 344,549. 3 Claims. (Cl. 83—60.)



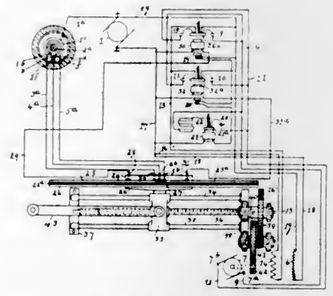
1. A sifter comprising a body, a sleve within the body, and a butterfly valve mounted within the body below the sleve to swing to a position to close the body and support the sifted material, one wing being engageable with the sleve when the valve is swung open.

1,345,059. DISH-WASHING APPARATUS. JANE T. BELKNAP, Glencoe, Ill. Filed Apr. 16, 1919. Serial No. 290,475. 2 Claims. (Cl. 141—9.)



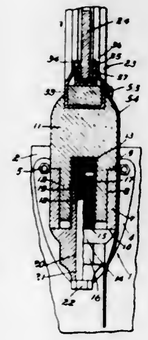
1. In a machine for washing dishes, the combination of a tank adapted to hold a cleansing liquid, a sleeve extending vertically from the bottom of the tank and provided at each end with a water tight bearing, a shaft extending through the sleeve and projecting through said bearings, a dish containing receptacle detachably mounted on the shaft, means for supporting the lower end of the shaft, a motor, operative connections between the motor and shaft for causing vertical reciprocation of the shaft and operative connections between the motor and shaft for causing axial rotation of the latter whereby a regulated rotary and vertical movement is simultaneously given to said dish containing receptacle.

1,345,060. TELEMOTOR. MELVIN B. BENSON, Superior, Wis. Filed Dec. 3, 1918. Serial No. 265,162. 3 Claims. (Cl. 172—8.)



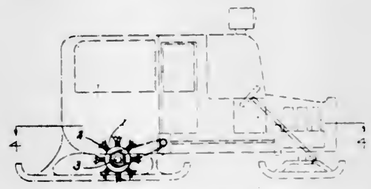
1. The combination of an electric circuit comprising a source of electricity, a normally open contact, a motor armature, a second normally open contact, and a series field for said motor; a second electric circuit comprising said source, a plurality of normally open contacts in parallel, a plurality of normally closed contacts in parallel, each of said closed contacts being in series with a corresponding one of said normally open contacts of said second circuit, and an electromagnet, said magnet being adapted to close the normally open contacts of said first circuit; manually operatable means for closing any one of the normally open contacts of said second circuit; means adapted to be mechanically operated by said motor to open any one of said normally closed contacts of said second circuit after the corresponding normally open contact of said second circuit has been closed; a third electric circuit, comprising said source, a normally closed contact adapted to be opened by said magnet, and a second electromagnet; a fourth electric circuit comprising the armature of said motor, a normally closed contact governed by said second magnet, and a current resistance element; and a fifth electric circuit comprising said source and a shunt field for said motor.

1,345,061. AUXILIARY WINDSHIELD. GEORGE R. BENTEL, Los Angeles, Calif., assignor, by mesne assignments, to Reim-Thompson Co., Los Angeles, Calif., a Corporation of California. Filed July 31, 1918. Serial No. 247,630. Renewed Mar. 16, 1920. Serial No. 366,434. 1 Claim. (Cl. 296—85.)



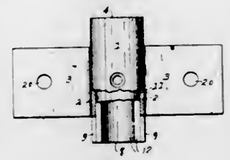
In an auxiliary windshield, a supporting bracket having a bearing provided with a vertical bore, a supporting head resting upon the bearing and having a pintle extending into the bore, a clamping head fitting against the lower side of the bearing, a clamping screw extending from the clamping head and screw-seated in the pintle; the inner end of the screw being transversely slotted and there being a seat and bore extending through the screw; a tapered expanding plug fitting in the seat point downwardly, and a screw inserted upwardly through the bore and screw-seated in the plug and having a head engaging the lower side of the clamping head and adapted to pull the plug downwardly to expand the clamping screw; and an auxiliary windshield frame rigidly secured to the supporting head.

1,345,062. SELF-PROPELLED SLEIGH. JOHN BEREZNAY, Throop, Pa. Filed Feb. 28, 1920. Serial No. 361,966. 2 Claims. (Cl. 180—6.)



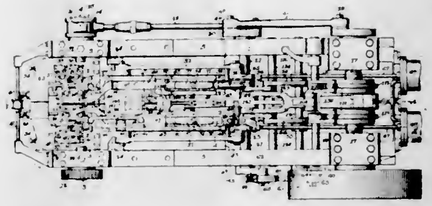
1. In a self propelled sleigh, a wheel comprising a hub, a hollow cylinder flared at its outer end on one side, mounted radially in said hub, a hollow cylindrical plunger open at its inner end and closed at its outer end mounted for radial reciprocation in said cylinder, flanges at the outer end of said plunger, a spring inside said plunger for urging said plunger to its outermost position, a gripper having two gripping edges pivoted between the flanges of said plungers, an ear on said gripper, a lug on said hub, and a spring attached to said lug and said ear for normally pressing said gripper against the flared surface of said cylinder for holding said gripper inclined to the radius of said wheel in the direction of rotation of said wheel.

1,345,063. JOURNAL-BOX. GUNDER O. BERGLAND, Deerfield, Wis. Filed Sept. 2, 1919. Serial No. 321,001. 3 Claims. (Cl. 64—10.)



2. A bearing, comprising the combination of two superposed, sheet metal plates, flat at their respective ends, each having lateral extensions of the central portions substantially semi-cylindrical in form, and arranged with their edge margins abutting, the central portions of said plates being also curved in the top and bottom arc of the cylinder defined by the extensions, and bent outwardly from the surface of the cylinder at each side of the bearing to form rounded elbows adapted to allow the flat ends of the plates to bear upon each other.

1,345,064. SPIKE-MACHINE. LAURENCE J. BERKELEY, Racine, Wis., assignor to Hercules Manufacturing Company, Racine, Wis., a Corperation of Wisconsin. Filed May 10, 1918. Serial No. 233,715. 14 Claims. (Cl. 10—58.)

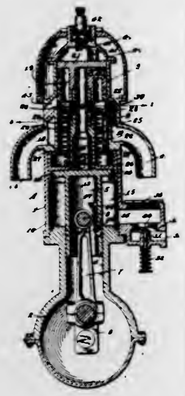


1. In a spike machine the combination with mechanism for forming and pointing spike bodies points foremost from continuous bars, of heading mechanism comprising gripping dies arranged to receive the spike bodies as they are delivered from the body forming and pointing mechanism, and a reciprocating swaging die movable into and out of the path of the spike bodies between the body forming and pointing mechanism and the gripping dies and adapted on its forward strokes to form heads on the spike bodies held by and projecting from the front ends of said gripping dies.

1,345,065. INTERNAL-COMBUSTION ENGINE. ALBERT B. BERNHARD, Columbus, Ohio. Filed June 26, 1919. Serial No. 306,886. 7 Claims. (Cl. 123—65.)

1. A two cycle internal combustion engine comprising a cylinder structure, a main piston mounted for reciprocation within cylinder structure and formed to divide the latter into spaced combustion and fuel receiving chambers, an auxiliary piston mounted for reciprocation within said fuel receiving chamber, valve mechanism responsive to the compression stroke of said main piston and the movement of said auxiliary piston to introduce a charge of fuel into said fued receiving chamber, whereby upon the completion of said compression stroke, said fuel charge will be confined within said compression chamber to effect the suspension of said auxiliary piston therein, and port means coöperative with said main piston and operable upon substantially the completion of the impulse stroke of

said main piston to establish communication between the fuel receiving chamber and said combustion chamber,



whereby said auxiliary piston will be released to effect the positive advance of fuel from said fuel receiving into said combination chamber.

1,345,066. EXCESS-VOLTAGE PROTECTIVE DEVICE. QUINCY A. BRACKETT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 8, 1919. Serial No. 316,076. 8 Claims. (Cl. 175—30.)

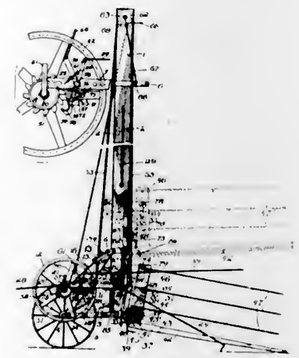
1. In a protective system, the combination with two conducting members between which a given potential is normally maintained and between which it is undesirable that a voltage materially in excess thereof shall obtain, of a circuit therebetween, said circuit including an electron tube having a breakdown voltage in excess of said normal voltage and a source of electromotive force connected in such direction as to lower the net breakdown voltage of the discharge path to a value nearer said normal voltage.

1,345,067. TOY UMBRELLA. ERNEST L. BROWN, Rochester, N. Y., assignor to Bastian Bros. Company, Rochester, N. Y., a Corporation. Filed Mar. 22, 1920. Serial No. 367,682. 2 Claims. (Cl. 135—20.)



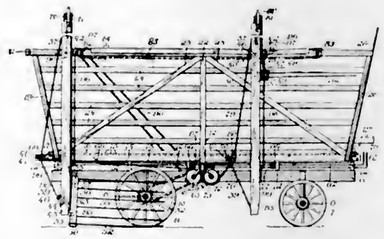
2. A toy umbrella comprising a canopy formed from sheet celluloid into inverted cup shape, said canopy having a center opening and scalloped edges and being pressed upwardly on lines radiating from the center of the canopy and extending to the lobes of the scalloped edges, a cane extending through the opening and projecting from both sides of the canopy, said cane having a surrounding notch receiving the canopy about the central opening and a tapered end which facilitates the fitting of the canopy into the surrounding notch.

1,345,068. SHOCK-HOIST. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Mar. 13, 1916. Serial No. 83,928. 15 Claims. (Cl. 214—42.)



1. A shock hoist including, in combination, a supporting frame, a shock receiving element carried by said frame, a hoisting mechanism including a winding drum operatively mounted upon said frame and connected with said shock receiving element, a wagon including carrying wheels and a receiving rack, draft connections between said frame and said rack, means for adjusting said winding drum bodily on said frame, and operative connections between said hoisting mechanism and one of said wagon wheels.

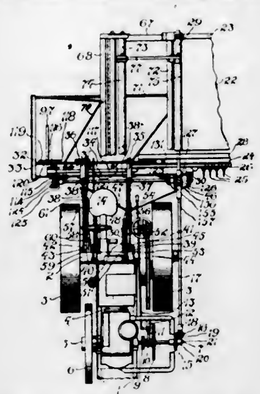
1,343,069. SHOCK-HOIST. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Nov. 25, 1916. Serial No. 133,408. 9 Claims. (Cl. 214—75.)



1. In combination, a wagon and a load receiving rack carried thereon, a vertically disposed mast foldably supported upon said rack, a shock carrying fork adapted to travel along said mast, and means for hoisting said fork vertically on said mast.

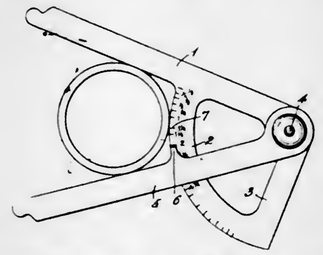
1,345,070. GRAIN-HARVESTER. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Oct. 25, 1915. Serial No. 57,718. Renewed Nov. 22, 1919. Serial No. 339,964. 13 Claims. (Cl. 56—22.)

1. A tractor operated harvester having, in combination, a tractor including a truck frame, a harvester, link connections between said truck frame and harvester disposed substantially parallel with each other, means including one of said link connections for varying the angle of tilt



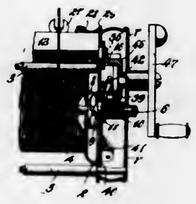
of said harvester, and means coöperating with said link connections for raising and lowering said harvester in various positions of angular adjustment without materially affecting the angle of tilt of said harvester.

1,345,071. MEASURING DEVICE. NATHAN C. BUTLER, Cleveland, Ohio. Filed June 2, 1916. Serial No. 101,310. 2 Claims. (Cl. 33—178.)



1. A gage for measuring round articles, comprising a pair of members adjustably connected to assume various angular relations with each other and adapted to receive an article between them, one of said members having a fixed stop for limiting entrance of the article into position between said members, one of said members having gradnations thereon, and a portion of the other member coöperating with said graduations as an indicator, said graduations being properly spaced and identified to indicate by the position of the indicator thereon the diameter of an article lying between and contacting both of said members and the stop.

1,345,072. FISHING-REEL. FRANCIS M. CASE, Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 29, 1917. Serial No. 158,287. 17 Claims. (Cl. 242—84.5.)



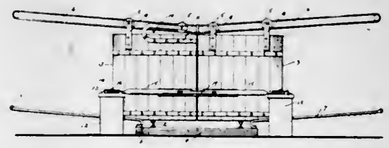
2. In a fishing reel, a spool, a level winding mechanism having an operative and inoperative position with respect to the line, driving means, and a single frictional device for controlling the drive to the spool and the position of the level wind mechanism.

1,345,073. HEADLIGHT. EMERSON L. CLARK, Lakewood, Ohio. Filed June 11, 1915. Serial No. 33,457. 17 Claims. (Cl. 240—48.4.)



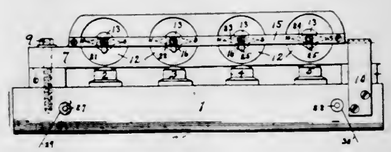
1. A refractive screen for use with a headlight having a reflector comprising surfaces of variant vertical distributive dispersion and surfaces of variant lateral distributive dispersion at and beyond the intercept of the roadway.

1,345,074. AUTOMATIC MINE-DOOR-OPERATING MECHANISM. WILLIAM CROOKS, Aldrich, Ala. Filed July 17, 1919. Serial No. 311,633. 6 Claims. (Cl. 246—304.)



1. In a mine door opening mechanism, a pair of laterally moving sliding doors, side anchors, and divergent telescoping arms connected at one end to the pair of doors and at the other end to said side anchors.

1,345,075. DEVICE FOR TESTING POLE-WINDINGS. JASPER F. CULLIN, Detroit, Mich., assignor, by mesne assignments, to William J. Hartwig, Detroit, Mich. Filed Dec. 29, 1919. Serial No. 348,086. 4 Claims. (Cl. 175—183.)

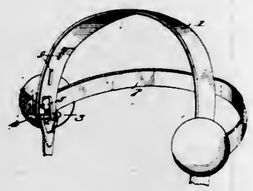


1. In a testing device for coils of electric machines, the combination of a series of cores to hold the coils and means to conduct current to the coils, a magnetic needle adjacent each core, and means to support the needles.

1,345,076. ROSETTE FOR BRIDLES AND OTHER PARTS OF HARNESS. HARRY LESTON DAUGHERTY, Carson City, Nev. Filed Sept. 16, 1919. Serial No. 324,125. 3 Claims. (Cl. 54—12.)

1. In a bridle, the combination with the head stall and the brow band, of a rosette having means for connecting the brow band to the head stall and for connecting the rosette to said brow band and head stall, said means comprising a keeper on the rosette through which the end of the head stall is passed, a latch bar pivoted on the keeper and mounted to slide transversely thereof, the rosette having an opening and the latch bar an an-

guiar portion provided with a locking extension adapted to pass within the opening and to engage within the

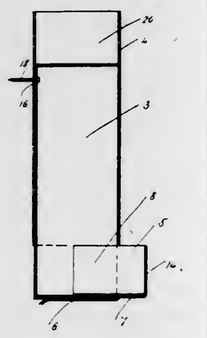


rosette, the brow band and head stall having openings through which the angular portion of the latch bar passes to engage the rosette.

1,345,077. PROCESS OF PRODUCING LIME-POTASH FERTILIZER FROM POTASH-BEARING MINERALS AND LIME. ROBERT DE LUCE, Fresno, Calif. Filed Apr. 9, 1920. Serial No. 372,711. 6 Claims. (Cl. 71—9.)

1. A dynamic process of producing lime-potash fertilizer including the mixing of potassium bearing mineral with excess of its own weight of pulverized calcium oxid, and then passing the mixture into a pressure tank by means of superheated steam.

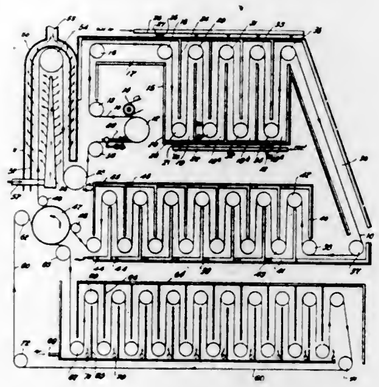
1,345,078. RECEPTACLE FOR MATCHES. OLIVER ELLISON, Wasco, Calif. Filed Dec. 31, 1919. Serial No. 348,576. 1 Claim. (Cl. 206—31.)



A feeder for a match box or similar box, comprising a flat rectangular bottom plate having laterally projecting tongues at its front part, and a notch at its middle part of greater depth than the width of the said tongues, the portion of the bottom plate cut away to form the notch being bent under the main portion of the plate to form a retaining clip, and the said tongues being bent upwardly in line with their rear edges and being also bent crosswise in line with the side edges of the bottom plate, so that the rear edges of the said tongues project downwardly adjacent to the side edges of the bottom plate.

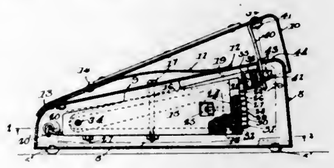
1,345,079. BREAD-MAKING APPARATUS. WILLIAM F. L. FISCH, Birmingham, Ala. Filed Apr. 10, 1917. Serial No. 161,064. Renewed Mar. 22, 1920. Serial No. 367,893. 14 Claims. (Cl. 107—57.)

13. In a bread making plant, the combination consisting of proofing and baking chambers, a continuously driven conveyer passing circuitously through the proofing and baking chambers, bread baking pans connected to and movable with the conveyer in continuous flight through both chambers, and an automatic pan cleaning apparatus disposed between and outside of both of said



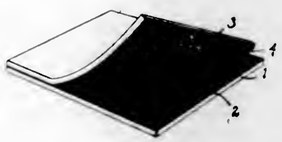
chambers and adapted to act on the pans while in movement from the baking to the proofing chamber.

1,345,080. FOOT-CONTROLLED ELECTRIC GOVERNOR. HARRISON D. FLEGEL, Racine, Wis., assignor to Hamilton-Beach Mfg. Co., Racine, Wis., a Corporation of Wisconsin. Filed May 24, 1919. Serial No. 299,469. 11 Claims. (Cl. 219—48.)



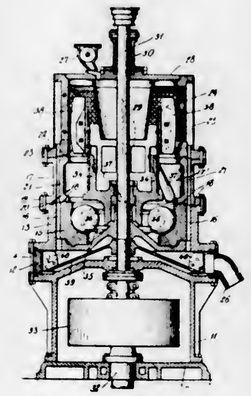
1. An electrical governor comprising a closed casing having an opening in one wall thereof, switch means inclosed within the casing, a treadle member adapted to telescope over the casing upon depression, a connecting member carried by the treadle member and passed into the casing upon depression, a connecting member carried by the treadle member and passed into the casing through the opening therein and connected with the switch means, and a spring member confined between the casing and treadle member for normally urging the treadle member upwardly to render the switch means inoperative.

1,345,081. DUPLEX BOARD. BEN K. FORD, East Orange, N. J. Filed June 5, 1919. Serial No. 302,010. 5 Claims. (Cl. 154—35.)



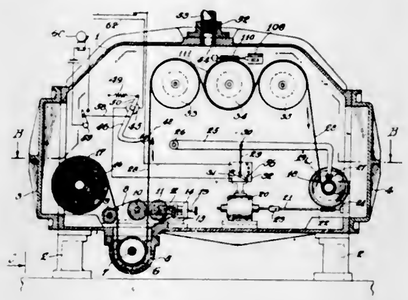
1. A duplex board comprising one layer having one side coated with fused material and a second layer secured to the thus coated side of the first by means of a dissolved cement.

1,345,082. PULVERIZER-MILL. JAMES W. FULLER, Catasauqua, Pa., assignor to Fuller-Lehigh Company, a Corporation of Pennsylvania. Filed June 1, 1918. Serial No. 237,686. 12 Claims. (Cl. 83—45.)



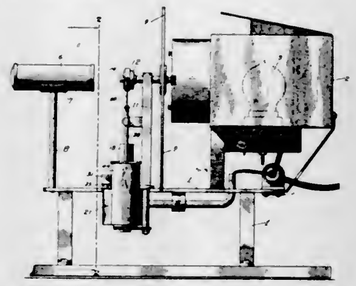
1. In a pulverizer mill, means for grinding material, a settling chamber of substantially uniform diameter above the grinding means, a superposed chamber above the settling chamber having a diameter substantially the same as that of the settling chamber, and means including a fan in the superposed chamber for maintaining a flow of air upwardly from the zone of action of the grinding means through the settling chamber and outwardly from the superposed chamber to carry pulverized material out of the mill.

1,345,083. APPARATUS FOR RECLAIMING SOLVENTS. PAUL GERLI and OSCAR A. ROSS, New York, N. Y. Filed May 4, 1918. Serial No. 232,505. 9 Claims. (Cl. 34—48.)



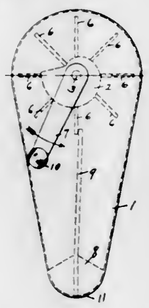
1. In an apparatus for reclaiming solvents from a compound used for treating a material in the form of a long strip, the combination of a hermetically sealed chamber in which said material is treated, reels for carrying the material while under treatment, rolls from and onto which the material is wound, means for varying the speed of the winding reel as the diameter of the roll thereon varies so that all parts of the material will be exposed for the same length of time, means for drawing off the solvent from the compound applied to the material, means for exhausting said gasified solvent from the chamber and means for liquefying the gasified solvent.

1,345,084. PROJECTOR. EARL I. GILMORE, San Francisco, Calif., assignor to Vitaslide Company, San Francisco, Calif, a Firm. Filed Nov. 6, 1918. Serial No. 262,261. 11 Claims. (Cl. 88—27.)



1. A projector comprising a lantern; an objective lens alined with the lantern; a transparent image carrying element arranged between the lantern and the lens; and gravity operated means for moving the image carrying element between the lantern and the lens, means for instantly resetting said gravity operated means to effect a substantially continuous movement.

1,345,085. MUSICAL TOY. WILLIAM E. GOSCHKE, Lowellville, Ohio. Filed Nov. 24, 1919. Serial No. 340,437. 1 Claim. (Cl. 46—46.)



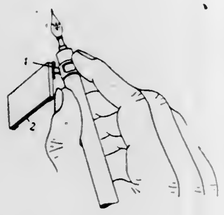
In a device of the class described, the combination of a casing, a weight secured in one end of said casing, a contact arm within said casing and secured to the above mentioned weight, an irregular disk rotatably mounted within said casing, vibrating tongues of varying lengths registering with the above mentioned contact arm and secured to said irregular disk, and means for rotating said disk.

1,345,086. SIDE-CURTAIN HOLDER. JOSEPH P. GRAY, Los Angeles, Calif. Filed July 28, 1919. Serial No. 313,676. 2 Claims. (Cl. 296—138.)



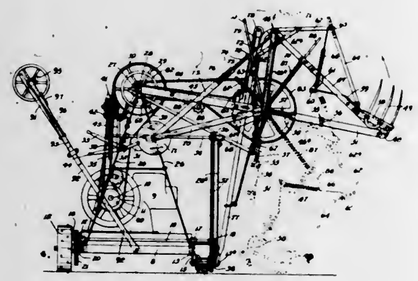
1. In combination with an automobile having a top provided with a side curtain, a border bar secured to said curtain, means on said border bar for securing an end thereof to said automobile top, means to secure the bottom thereof to the automobile body, an extension secured to said border bar at its point of attachment to the body, and a handle extending between said bar and said extension.

1,345,087. BLOTTING APPLIANCE. JOHAN HILDING HEDBERG, Helsingborg, Sweden. Filed Aug. 9, 1919. Serial No. 316,514. 1 Claim. (Cl. 120—25.)



A blotting appliance comprising the combination with a small flat blotting paper support of a clip held by a projecting neck at or near a corner of said support so that, attached to the nib end of a pen-holder, it will hold the blotter away from the pen-holder in a leftwardly and rearwardly projecting position, substantially as described and illustrated.

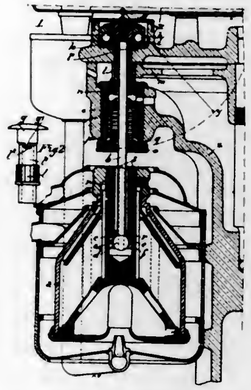
1,345,088. MANURE-LOADER. ALBERT HOSSFELD, Lewiston, Minn., assignor to The Hossfeld Manufacturing Co., Inc., Lewiston, Minn., a Corporation of Minnesota. Filed Feb. 9, 1918. Serial No. 216,161. 7 Claims. (Cl. 193—1.)



1. In a loader, the combination with a crank shaft and means for rotating the same, of an arm pivotally mounted on the crank of said shaft and equipped with a scoop at its outer end, an endwise contractible and extensible thrust link interposed between said crank shaft and the scoop-equipped end of said arm, the said thrust link including a spring engaged frictional detainer, the elements of which are under maximum frictional engagement when said link is extended, and which, when the link is contracted by forced inward movement of the scoop, gives away and permits further contracting movement of said link under very greatly decreased resistance.

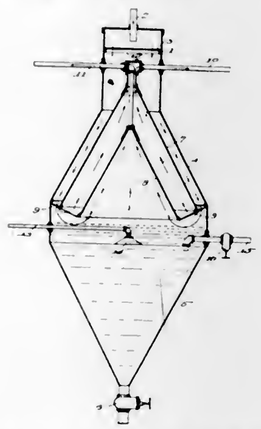
1,345,089. SUSPENSION DEVICE. ANTOINE JEANTIN, Geneva, Switzerland. Filed July 12, 1919. Serial No. 310,359. 6 Claims. (Cl. 64—48.)

1. A suspension apparatus for centrifugal cream separators and the like, comprising a support, a driving member journaled in the said support, a spindle passing freely through the said driving member, a universal joint connecting the head of a spindle and the driving member, a member to be revolved, and a universal joint connecting



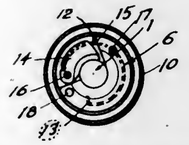
the lower end of the spindle with the said member to be revolved at substantially its center of gravity.

1,345,090. SETTLING-TANK. STANISLAUS FREDRICK KELLER, Franklin, La. Filed Mar. 7, 1917. Serial No. 152,968. 1 Claim. (Cl. 210—5.)



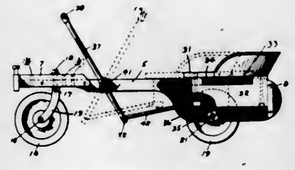
In combination a settling tank having an inlet at its top and an outlet at the bottom, and a plurality of conical deflecting settling members at the upper end of the tank upon the outermost of which the juice is fed, said members being arranged in spaced relation and one within the other and having their lower edges at practically the same level, the members discharging at their upper ends.

1,345,091. AUTOMATIC LOCKOUT FOR LAMP-SOCKETS. ANDREW J. KELLOGG, Acton, Calif. Filed July 7, 1919. Serial No. 309,099. 2 Claims. (Cl. 173—356.)



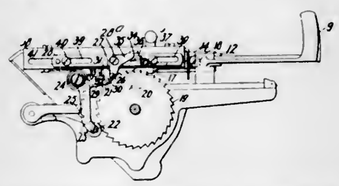
1. An apertured insulation frame adapted to be screwed into a lamp socket, carrying a center contact in said aperture and displaceable in the direction of movement of the entering lamp, a pivoted insulating plate carried by the frame biased to move over the center contact aperture and normally held from such position by engagement with the center contact.

1,345,092. TOY VEHICLE. AUGUST C. KLENKE, Berkeley, Calif. Filed Aug. 25, 1919. Serial No. 319,841. 3 Claims. (Cl. 208—38.)



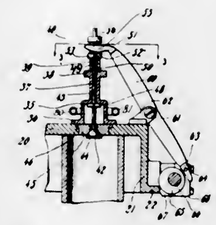
2. In a device of the character described, the combination of a frame comprising parallel spaced members, a steering wheel pivotally mounted near the forward end of said frame, a shaft suitably journaled in said parallel members and projecting beyond the sides of said parallel members, wheels mounted on the said projecting shaft and suitably secured thereto, a seat carried upon said parallel members, said seat having a depending portion, a clutch mounted on said shaft at a point between said parallel members, a flexible member surrounding said clutch and attached to the depending portion of said seat, and means for reciprocating said seat and its depending portion.

1,345,093. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,923. 14 Claims. (Cl. 197—114.)



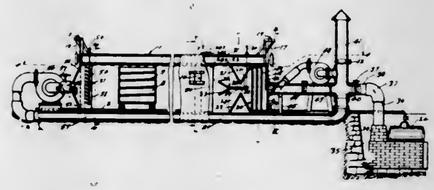
1. In a typewriting machine, the combination with a rotatable platen and a detent therefor, of a ratchet wheel connected to the platen having teeth to coöperate with said detent, a line-space driving device comprising a reciprocating member to turn the platen a single line space so that the detent will engage another tooth, and connections whereby the driving operation of said member moves said detent clear of said wheel while the point of any tooth passes the detent.

1,345,094. VALVE-GEAR FOR INTERNAL-COMBUSTION ENGINES. NICHOLAS J. LE GRANDE, Goodwin, Ark. Filed Feb. 14, 1919. Serial No. 276,939. 3 Claims. (Cl. 123—59.)



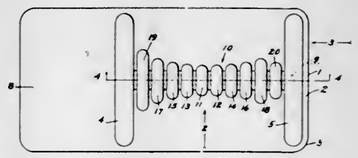
1. In a valve gear for internal combustion engines, the combination with a casing, and a cover secured thereto, of a plurality of cylinders formed with said casing extending to said cover, said cover forming the head of said cylinders, pairs of valves extending through said cover into each of said cylinders in a direction parallel to the axes of the latter, said valves being all in alinement longitudinally of the engine, removable seats against which said valves make contact, means pressing said valves into engagement with said seats, levers pivotally mounted on said cover and extending diagonally downward across said cover, said levers being adapted to operate said valves, a plurality of cams, one for each of said levers, a horizontal shaft mounted at the rear of said cover, upon which said cams are secured, and means for rotating said shaft from the shaft of said engine.

1,345,095. APPARATUS FOR SMOKING FISH. JOHN W. MARR, Long Beach, Calif. Filed July 25, 1919. Serial No. 313,317. 4 Claims. (Cl. 99—2.)



1. In an apparatus for smoking fish, a smoke house having a smoke chamber and a radiator chamber communicating with the smoke chamber through a small central passage of baffles mounted transversely behind the passage and adapted to swing up and down to regulate the direction of flow through the passage; radiators in the radiator chamber; a pipe discharging into the radiator chamber; a damper in the pipe; a cross at the outer end of the pipe; a furnace connected to the outer end of the cross; a damper for controlling the furnace; an intake and discharge pipe connected to the outer end of the cross; a damper in the intake and discharge pipe; a blower connecting the intake and discharge pipe below the damper to the first pipe behind the damper; a suction fan at the rear end of the smoking chamber; and a pipe connecting the discharge end of the suction fan to the lower end of the cross.

1,345,096. FOOT MASSAGER AND STRENGTHENER. MADISON H. MOUNT, Los Angeles, Calif. Filed Feb. 11, 1918. Serial No. 216,633. 5 Claims. (Cl. 128—57.)
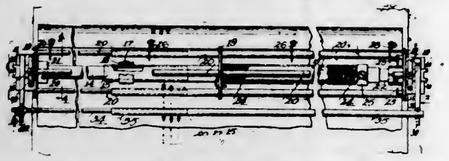


1. A foot massager and strengthener comprising a base, bearing blocks mounted upon the base and leaving a foot rest at one end of the base, a shaft mounted in the bearing blocks, and a plurality of independent disk shaped massage rollers mounted upon the shaft between the bearing blocks, said rollers being slightly spaced from each other and varying in size with the smallest rollers at the center and being of a size to massage the muscles that lie along and between the bones of the foot.

1,345,097. ADJUSTABLE SHADE-ROLLER. ALFRED A. MOUSETTE, Leicester, Mass. Filed Oct. 9, 1919. Serial No. 329,526. 11 Claims. (Cl. 156—36.)

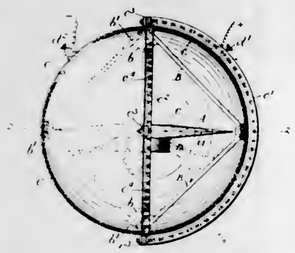
10. The combination of a pair of stationary telescoping members constituting a central support or shaft, a plu-

rality of disks rotatably mounted thereon, a skeleton telescoping frame carried by said disks for holding and winding up the shade, said central shaft having two spaced



projections at each end, and a plate adapted to be mounted on the inner surface of a window casing and having a pair of openings therein for receiving said projections and supporting said shaft in a non-rotatable position.

1,345,098. INCLINOMETER. HERBERT MARKHAM-MILLS, Wentworthville, New South Wales, Australia. Filed Feb. 5, 1919. Serial No. 275,145. 1 Claim. (Cl. 33—215.)



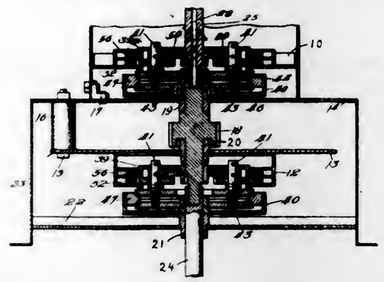
An inclinometer for use in directing aircraft comprising a gyroscope, the wheel carrying frame of which is mounted on a circular ball-race provided within a spherical casing, the wheel of the gyroscope being electrically driven and formed with a knife-edged periphery and the casing having a window of spherical conformation with graduated arcs in proximity therewith whereby the angular position of the plane of revolution of the wheel can be ascertained at any instant of the flight of the aircraft.

1,345,099. METHOD OF FORMING ROOFING-STRIPS. FREDERICK C. OVERBURY, Rutherford, N. J., assignor to Flintkote Manufacturing Company, Boston, Mass., a Corporation of New Jersey. Filed Mar. 24, 1916. Serial No. 86,457. 2 Claims. (Cl. 108—7.)



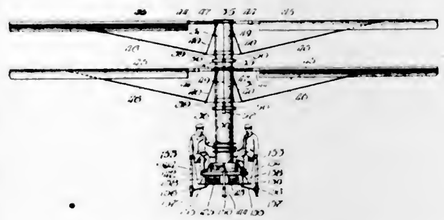
1. A method of forming from a blank a plurality of shingle strips each, when completed, having spaced apart notches opening out through one of its lengthwise edges and an intact marginal portion between the closed ends of the notches and the opposite lengthwise edge of the strip, said method consisting in forming in a blank a plurality of spaced apart notches in rows extending lengthwise of the blank, said rows being spaced apart widthwise of the blank and corresponding in number to the number of strips to be formed from the blank, the notches of one row opening out through one lengthwise edge of the blank and severing said blank lengthwise along lines intersecting corresponding ends of the notches of the remaining rows of notches.

1,345,100. FRICTION-CLUTCH. THOMAS O. PERRY, Oak Park, Ill. Filed July 11, 1918. Serial No. 244,509. 3 Claims. (Cl. 192—7.)



1. In a friction clutch, the combination with two friction disks, a friction ring adapted to be grasped between the peripheries of said friction disks and a ring holder journaled concentrically with said disks, of multiple screw shafts having right hand threads engaging one of said disks and left hand threads engaging the other of said disks, synchronizing gears for actuating said screw shafts in one direction, counter-gears for actuating said screw shafts in a reverse direction, a housing for carrying said screw shafts and gears about the axis of said disks, said housing having peripheral slots through which the teeth of said gears protrude, two friction rims concentric with said axis encircling said housing, one rim having direct actuating connection with said synchronizing gears and the other rim having therewith indirect connection through said counter-gears and means whereby either rim may be grasped at will and retarded or actuated relatively to the rotational speed of said housing, substantially as herein set forth.

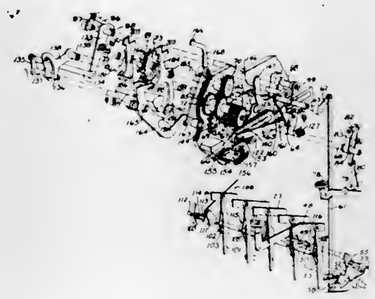
1,345,101. AIRCRAFT. THOMAS O. PERRY, Oak Park, Ill. Filed July 11, 1918, Serial No. 244,508. Renewed Feb. 20, 1920. Serial No. 360,069. 12 Claims. (Cl. 244—19.)



1. In an aircraft, the combination with wings radially pivoted, motive power adapted to drive said wings horizontally about a vertical axis and a tubular vertical column upon which said wings have their bearings, of feathering mechanism for said wings partially inclosed within said vertical column and superposed circular hand grips encircling said column adapted to actuate said inclosed feathering mechanism for controlling the altitude, traction and direction of said aircraft substantially as herein set forth.

1,345,102. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 2, 1916. Serial No. 81,574. 93 Claims. (Cl. 235—59.)

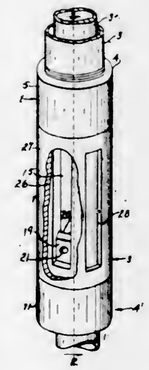
11. The combination with a pinion, of means including a reciprocating rack bar for rotating said pinion, typewriter escapement mechanism, pivoted members having pin-and-slot connections with said rack bar, means for connecting said pivoted members to cause synchronous movement thereof, and camming means operated from said escapement mechanism for actuating one of said pivoted members to move said rack bar into and out of mesh with said pinion.



23. In a combined typewriting and computing machine, the combination with a series of numeral keys, of pendents for said keys, a double pawl coöperating with each pendent adapted to form a full-stroke device therefor, a typewriter escapement mechanism, and means for operating said double pawls by said escapement mechanism.

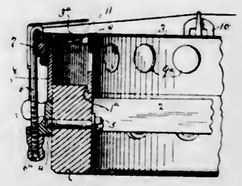
75. The combination with computing wheels, of a master wheel for driving said computing wheels, carry-over wheels for said computing wheels, detents for certain of said wheels, alining means for said detents, a rack bar connectible to drive said master wheel, and means, operated from said alining means, for shifting said rack bar between effective and ineffective driving positions.

1,345,103. OVERSHOT. JOSEPH A. PLANTE, San Pedro, Calif. Filed Aug. 28, 1919. Serial No. 320,542. 1 Claim. (Cl. 294—90.)



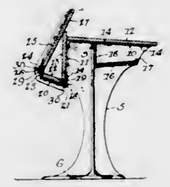
An overshot comprising a main frame adapted to be connected to an operating stem and having a central bore and longitudinal slots and seats at the bottoms of the slots and a screw-threaded lower end; spring locking dogs having heads fitting in the seats and spring arms extending through the slots; a locking sleeve rotatably mounted upon the frame and having a slot adapted to uncover the slots and seats in the main frame one at a time so that the spring locking dogs may be inserted or removed through the slot in the sleeve; and a fishing bell screwed upon the lower end of the main frame against the sleeve.

1,345,104. BANJO. GAETANO F. PUNTOLILLO, New York, N. Y. Filed Aug. 30, 1919. Serial No. 320,769. 3 Claims. (Cl. 84—124.)



1. A banjo comprising a rim having a neck secured to and projecting therefrom, spaced inner and outer rings, a head bearing upon said rings, and means to stretch the head thereon, providing a chamber between said rings and head over the rim, the inner ring having holes, the area within the rim being unopposed on the side away from the head.

1,345,105. SCHOOL DESK AND SEAT. THOMAS QUINLAN, Milwaukee, Wis. Filed Nov. 5, 1917. Serial No. 200,340. 3 Claims. (Cl. 155—87.)



1. A desk and seat in part, comprising a single standard having a base extension, a two part hinged together seat back carried by the standard, and a seat member hinged to the seat back.

1,345,106. BUMPER. PHILIP RIEDELE, Los Angeles, Calif., assignor to United States Spring Company, Inc., Los Angeles, Calif., a Corporation of California. Filed May 31, 1918. Serial No. 237,608. 2 Claims. (Cl. 293—55.)

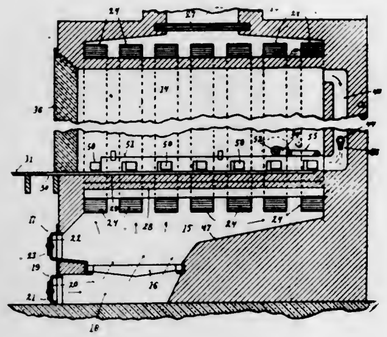


2. A bumper formed of a stick of wood and having a straight central portion and horns curved outwardly and backwardly from the ends of the straight central portion; the outer ends of the horns being provided with metal caps.

1,345,107. BAKE-OVEN. CHARLES RINCK, Cincinnati, Ohio. Filed Sept. 3, 1919. Serial No. 321,429. 5 Claims. (Cl. 107—55.)

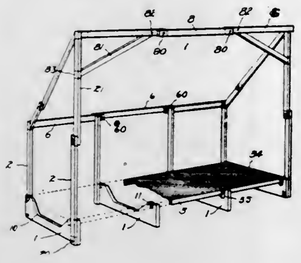
1. A bake-oven comprising a fire-box, an oven chamber of greater depth than width above and separated from said fire-box by a floor heated from said fire-box, substantially vertical flues leading from said fire-box along the side walls of said oven chamber and across the top of said oven chamber to heat the side and top walls of said oven chamber, a door of substantially the full height of said oven chamber in one wall thereof, to permit the introduction and removal of portable racks carrying the goods to

be baked, a circulating conduit leading from the upper portion of said oven chamber to the lower portion of said



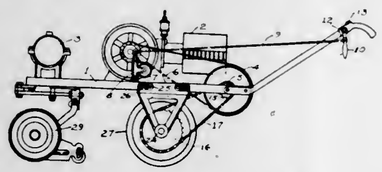
oven chamber, and means to cause a gaseous circulation from one portion of said oven chamber to another through said conduit.

1,345,108. FOLDING TENT. FREDERICK SCHILLING, Sr., Seattle, Wash. Filed Apr. 28, 1919. Serial No. 293,139. 7 Claims. (Cl. 135—4.)



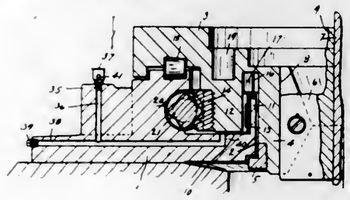
4. A tent frame comprising ground sills, posts pivoted to the ends of said sills at opposite sides and adapted to swing down alongside said sills, the ends of the sills being transversely notched on their upper edge just within the raised position of the posts, side bars composed of sections of a length to extend between adjacent sills, hinges connecting said sections, said side bars fitting within the notches in the upper edges of the sills, means carried by the side bars to position the joints between sections over cross sills, and a fabric secured to said side bars.

1,345,109. PROPELLING DEVICE FOR POWER LAWN-MOWERS. FAYETTE M. SEELEY, Lansing, Mich. Filed Aug. 12, 1918. Serial No. 249,591. 3 Claims. (Cl. 180—20.)



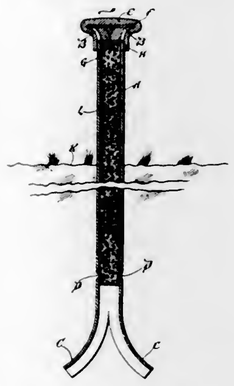
1. In a device of the character described, in combination, a main frame; an internal combustion engine mounted on said frame, said frame being provided with downwardly extending brackets provided with bearings at their lower extremities; a driving shaft adapted to revolve in said bearings; a plurality of driving rollers mounted on said shaft, one of said rollers being firmly attached to said shaft and the others adapted to revolve freely upon it, and means for automatically making an operative connection between said fixed and said free driving rollers.

1,345,110. WORM-GEAR CONSTRUCTION FOR ROTARY DRILLS, &c. PAUL YUNGLING, Los Angeles, Calif. Filed Sept. 22, 1919. Serial No. 325,535. 6 Claims. (Cl. 74—36.)



1. A worm gear power for rotary drills and the like comprising a base having a vertical opening and an annular recess extending downwardly from its upper face concentric to the vertical opening, a turntable having a pintle extending downwardly into the vertical opening and a flange extending downwardly into the recess, vertical roller bearings between the inner face of the flange and the base, horizontal roller bearings between the turntable and the base outside of the recess, a worm gear ring screwed upon the flange, and a worm gear construction extending horizontally through the base and meshing with the worm gear.

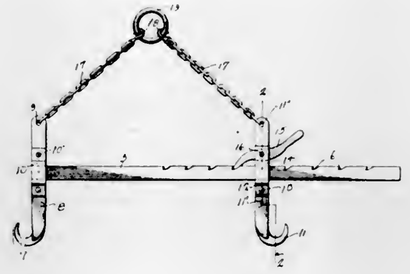
1,345,111. SURVEY-POST. ALBERT W. ALBRECHT, St. Louis, Mo. Filed Oct. 9, 1919. Serial No. 329,551. 4 Claims. (Cl. 189—21.3.)



1. A survey post comprising a metal tube, a metal cap having a cavity of annular cross-section and adapted to receive the end of said tube, the inner and outer walls of said cavity being so shaped and positioned with respect to each other that said inner wall will act on said tube to cause the wall thereof to be bent outwardly and clenched on said outer wall of said cavity when said cap is forced onto said upper end of said tube.

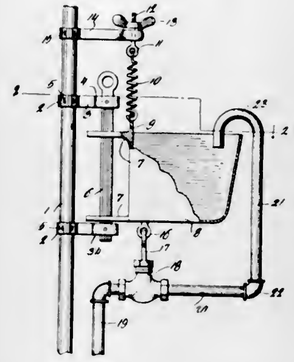
1,345,112. ADJUSTABLE GAMBREL. WILBUR A. ANDREW, Evansville, Wis. Filed July 7, 1919. Serial No. 309,033. 1 Claim. (Cl. 294—79.)

In a device of the class described, the combination of an elongated bar having notches in its upper edge, a hook having an elongated body provided with an eye in its upper end, a clamp for fixedly attaching said hook to one end of said bar, a second hook of similar construction to said first mentioned hook, a bracket fixed upon the body of said second hook, a pawl pivotally mounted between



the upper end of said bracket and said body, said pawl engaging the notched surface of said bar for adjustably holding said body in a desired position upon the bar, and supporting means connected to the upper ends of said bodies.

1,345,113. WATERING-BOWL. WILBUR A. ANDREW, Evansville, Wis. Filed Jan. 14, 1920. Serial No. 351,338. 3 Claims. (Cl. 119—81.)

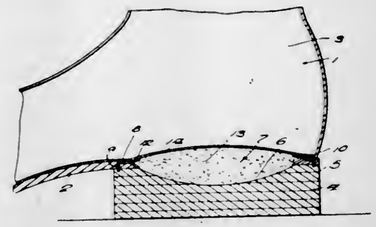


1. In a device of the class described, the combination of a support, supporting bars provided with square openings attached to said support, a slide bar fitting in said openings of said bars, a watering bowl, means provided for slidably connecting said watering bowl to said slide bar, a water supply pipe leading into said bowl, a valve situated upon said pipe, a link provided on the bottom portion of said bowl and connected to the valve stem of said valve whereby when said bowl is raised or lowered said valve will be opened or closed, and means provided for raising said bowl.

1,345,114. CUSHION-HEEL. THOMAS W. ARTER, Bellaire, Ohio. Filed June 3, 1919. Serial No. 301,429. 2 Claims. (Cl. 36—37.)

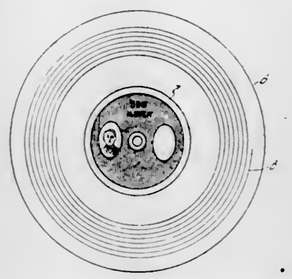
1. In a device of the character described, in combination with the heel of a shoe having a recess in the upper surface thereof, an attaching frame having its inner edges alining with the upper edge of the recess and also split at uniformly spaced intervals, the portions lying between

the slits being alternately bent upwardly and downwardly to provide supporting and engaging flanges and also forming a groove, anchoring spurs depending from the



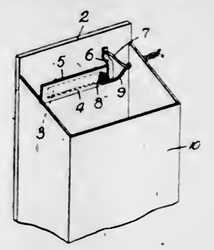
frame and anchored in the heel and a resilient element having its reduced outer edges seated in the groove with the lower surface engaging the recess and the upper surface positioned in a plane above the plane of the frame.

1,345,115. MATRIX FOR PRODUCING SOUND-RECORDS. JONAS W. AYLSWORTH, deceased, East Orange, N. J., by Adelaide M. Aylsworth and Savings Investment and Trust Company, East Orange, N. J., executors, and Edward L. Aiken, East Orange, N. J.; said executors and said Aiken assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Original application filed June 19, 1912, Serial No. 704,517. Divided and this application filed Sept. 11, 1918. Serial No. 253,653. 6 Claims. (Cl. 18—5.3.)



1. As an article of manufacture, a sound record matrix provided with negative or reversed facsimiles of the sound vibrations and of a design in half tone, substantially as described.

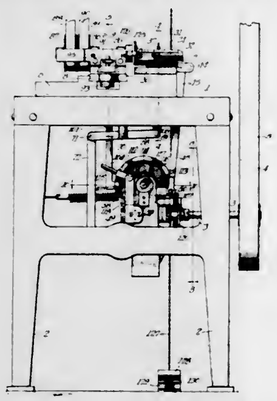
1,345,116. CIRCUIT-CLOSER FOR LETTER-BOXES. FRED BACHILA, Montreal, Quebec, Canada. Filed Aug. 14, 1919. Serial No. 317,433. 1 Claim. (Cl. 200—57.)



A circuit closer for letter-boxes, comprising a casing having an opening therein; a hinged door provided over the opening of said casing; a letter-box secured on the

nearer side of said door; a letter opening provided in said door; a hinged closing plate provided over said opening; a U-shaped contacting member electrically connected and secured to said plate; a downwardly projecting electrically connected and contacting member secured adjacent said plate, said member being adapted to project slightly outwardly from said plate whereby when mail-matter is pushed through said opening, the closing plate will be opened and the contacting U-shaped member, on said plate, will be made to contact with the downwardly projecting contacting member and cause an electrical circuit which will give a signal, substantially as described.

1,345,117. KEY-CUTTING MACHINE. EDWARD P. BAIRD, Chicago, Ill., assignor to The King Lock Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1915. Serial No. 59,818. 22 Claims. (Cl. 90—15.)



1. In a device of the kind described and in combination, a suitable reciprocating key carrier provided with means for clamping the key thereon, a pair of rotatable cutters, means for moving said key carrier to bring the key into engagement with the cutters, means for periodically irregularly moving said cutters in the same direction transversely back and forth in the line of travel of the key, means for lifting the key out of engagement with the cutters, and thereafter retrieving the carrier.

1,345,118. BREAD CUTTER AND CARRIER. JOSEPH F. BARTINI, Washington, D. C. Filed Sept. 4, 1919. Serial No. 321,564. 2 Claims. (Cl. 146—12.)



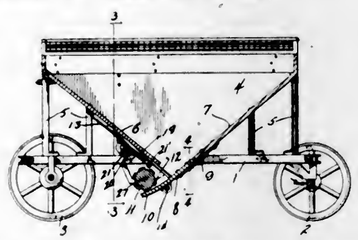
1. In a slicing machine, a support, a vertically disposed shaft journaled on the support, shaft rotating means, a circular knife fixed to the shaft for rotation therewith, an upstanding arm pivoted to the support, a tubular member fixed to the upper end of the supporting arm and adapted to retain the object to be sliced, the arm being adapted to be swung to a position where the tubular member will be disposed above the circular knife at one edge thereof, and an outstanding arm carried by the shaft and disposed below the knife to engage the end of the object to support the same in position to be engaged by the knife.

1,345,119. REMOVABLE BOTTOM FOR COOKING UTENSILS. BENJAMIN J. BIDDLE, Montville, N. J. Filed June 10, 1918. Serial No. 239,164. 1 Claim. (Cl. 53—1.)



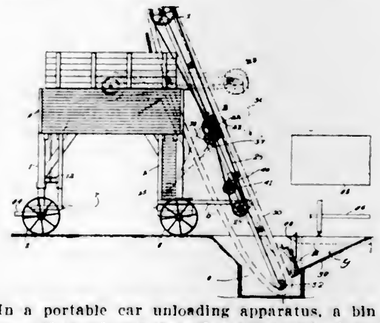
A removable bottom for cooking utensils comprising a pair of complemental foraminous sections, a rod hingedly connecting said sections and provided with an upstanding loop upon one end thereof adapted to be engaged by an implement to remove the sections from the utensil, said rod permitting of a pivotal movement of the sections when being removed, and a rim for each section having one end and an intermediate portion bent to provide depending supporting legs adapted to rest upon the bottom of the utensil to support the sections in spaced relation thereto.

1,345,120. FEED-REGULATOR FOR ROAD-SANDING MACHINES. JAMES H. BISSELL and CHARLES G. BEAUREGARD, Troy, N. Y. Filed May 15, 1917. Serial No. 168,848. 1 Claim. (Cl. 83—44.)



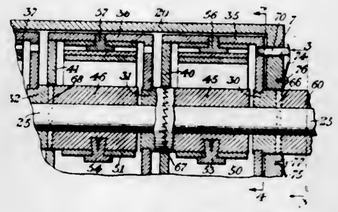
The herein described feed regulator for granular material comprising a hopper having bottom walls converging toward a delivery opening, a plate hinged to the lower edge of one wall and extending across said opening and terminating in a lip, a gate slidably mounted beneath the other wall, means for adjusting it toward and from said plate, a yielding feed roller rotatably supported beneath the gate and having ribs on its surface overlying the lip, and means for swinging the said plate to adjust the position of its lip with respect to said roller.

1,345,121. CAR-UNLOADER. J GROVE BROWN, Kingston, N. Y. Filed May 26, 1919. Serial No. 299,976. 7 Claims. (Cl. 214—41.)



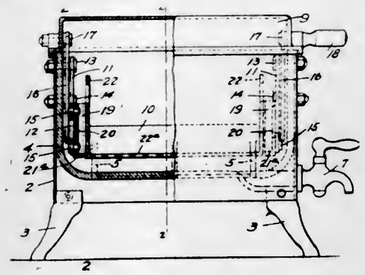
1. In a portable car unloading apparatus, a bin having supporting columns spaced apart to afford a driveway there-between, wheels supporting said columns, and a folding elevator secured to said bin.

1,345,122. SPRING-MOTOR. JOHN BAILEY BROWNING, Camden, N. J. Original application filed Feb. 16, 1912, Serial No. 677,938. Divided and this application filed Apr. 17, 1916. Serial No. 91,545. 64 Claims. (Cl. 185—45.)



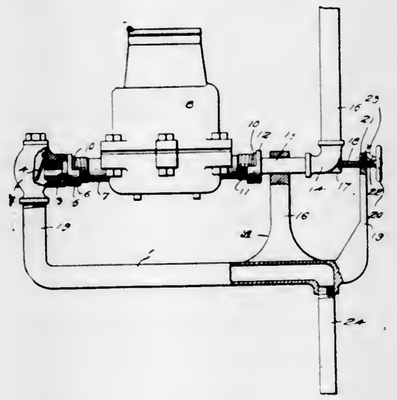
50. In a spring motor the combination with a shaft of a plurality of spring units movably mounted on said shaft and separably clutched together to act in series.

1,345,123. STERILIZER. CORWIN W. BRYANT, Minneapolis, Minn. Filed Mar. 24, 1919. Serial No. 284,574. 7 Claims. (Cl. 167—3.)



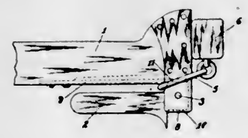
1. A sterilizer comprising a boiler adapted to contain a sterilizing liquid, an instrument tray arranged therein, a cover for said boiler, parallel links connecting said tray with the walls of the boiler and means connecting said cover and links for lifting said tray vertically to a point above the boiler and substantially within the plane of the vertical walls thereof.

1,345,124. METER CONNECTION AND CONTROLLING MEANS. JOHN W. CALHOUN, Chester, Pa. Filed May 3, 1919. Serial No. 294,493. 3 Claims. (Cl. 285—3.)



1. In a device of the character stated, a supporting frame including a tubular member adapted to be connected at one end with a supply pipe, a valve casing secured on the other end of said tubular member, a swing valve mounted in said casing for closing the outlet thereof, a tubular member removably mounted in the outlet end of the valve casing and engaging said valve so as to hold the same away from its seat, a nipple supported by said supporting frame in alinement with the outlet of the valve casing, a meter provided with inlet and outlet nipples, means for coupling the nipples of said meter to the tubular member and to the nipple carried by the supporting frame, respectively, and means for securing the tubular member against movement and for releasably securing the meter in position.

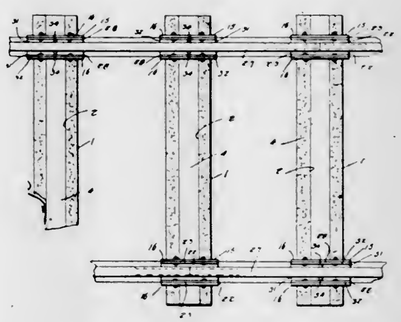
1,345,125. VEHICLE-TONGUE. DUNCAN CAMERON, Minnedosa, Manitoba, Canada. Filed May 7, 1918. Serial No. 233,143. Renewed Feb. 13, 1920. Serial No. 358,404. 4 Claims. (Cl. 21—92.)



2. A vehicle tongue having a tip hinged to fold under the tongue or extend in alinement with the tongue, said tip having a notch formed in its free end for engagement with the ring of a neckyoke.

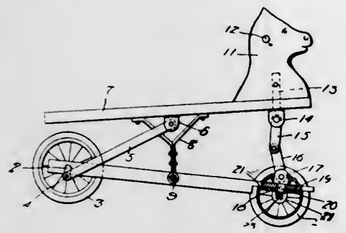
3. A vehicle tongue having a substantially flat vertical end, a hinge at the end depending below the underside of the tongue, a tip connected to the tongue by said hinge so that it may be swung down out of alinement with the tongue, in combination with a neck yoke adapted to lie against the end of the tongue and a ring connected thereto adapted to embrace the hinge, said tip being shaped to provide a supporting surface which when the tip is swung back on the hinge out of alinement with the tongue will underlie the neckyoke ring, and a spring for releasably holding the tip in its position out of alinement with the tongue.

1,345,126. RAIL TIE AND FASTENING. IDA N. CAREY, Tuscarora, Nev. Filed Feb. 20, 1920. Serial No. 360,113. 8 Claims. (Cl. 238—210.)



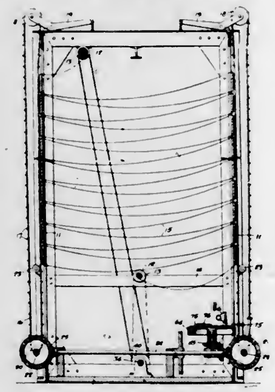
1. A rail tie and fastening comprising a tie body, a binding member for said body and having outwardly directed flanges, a rail supporting plate positioned upon said tie body and having flanges overlapping the outwardly directed flanges of the binding member, means for securing said rail supporting plate in position, and rail clamping members.

1,345,127. TOY VEHICLE. MAX E. CARR, Chicago, Ill. Filed Sept. 23, 1919. Serial No. 325,673. 3 Claims. (Cl. 208—33.)



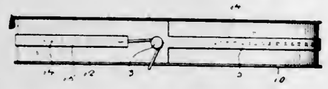
1. In a toy vehicle, a frame, a main driving axle, a steering axle, a seat board rockably supported by the frame, driving connections between said board and the means for rotating said axle by rocking the board, a main steering member mounted on the board and rotatable independently thereof, and operating connections between said steering member and the steering axle.

1,345,128. COMBINATION TALKING AND MOVING-PICTURE MACHINE. PIERRE THOMAS LÉON CHAMPEIX, Menton, France. Filed Oct. 16, 1918. Serial No. 258,367. 7 Claims. (Cl. 40—28.)
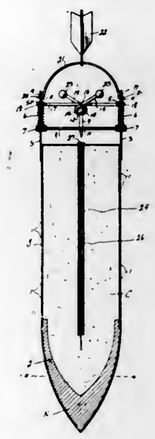


2. In a machine of the character described, a plurality of spaced superposed band supports, an illustrated band engaging the band supports and passing therebetween, an endless belt arranged near the band supports and engaging sections of the band thereon to advance the same, a device engaging one end of the endless belt to regulate its tension and serving to shift the same toward the sections of the illustrated band, and means engaging the opposite end of the endless belt to move the same.

1,345,129. NON-SLIP MOTION-PICTURE-FILM BAND. WILLIAM LEE CLARKE, Jr., Tallahassee, Fla. Filed Nov. 29, 1919. Serial No. 341,414. 2 Claims. (Cl. 206—53.)



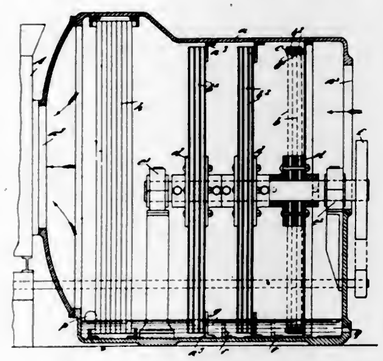
1. In combination with a film reel, of a binder comprising a strip of flexible material of substantially the same width as the film, a cord secured to and extending from one end of the strip, means covering said cord to resist lateral sliding movement thereof when the binder is secured in position, and means whereby the free end of the binder may be removably secured to the strip.

1,345,130. BOMB. JOSEPH HARRY CLARY, Lincoln, Ill. Filed Oct. 11, 1919. Serial No. 329,927. 6 Claims. (Cl. 102—2.)



2. A bomb comprising a shell adapted to contain an explosive charge, outstanding members carried by an end portion of the shell, a firing pin slidably supported by said members, means releasably, upon impact, adapted for holding the pin in set position, means for urging the pin toward the shell when the pin is released, and a tail engaged with the outer end portions of the members.

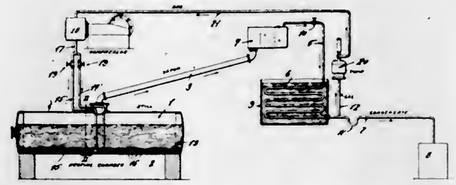
1,345,131. WET FILTER, WATER-COOLER, HUMIDIFYING APPARATUS, AND THE LIKE. ALFRED BUTTERWORTH CLEWORTH, Hollinwood, England. Filed Jan. 4, 1918. Serial No. 210,322. 5 Claims. (Cl. 261—92.)



5. In an apparatus of the character described, a chamber having a lower portion adapted to contain liquid, and an upright disk of expanded metal provided with openings and having the strips of metal between said openings inclined to the face of said disk, said disk being rotatably mounted in said chamber with its lower portion in said liquid.

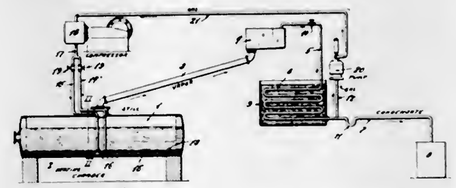
1,345,132. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Mar. 22, 1917. Serial No. 156,652. 1 Claim. (Cl. 196—27.)

In the art of cracking petroleum hydrocarbons, the method which comprises confining a hydrocarbon oil in a horizontal cylindrical cracking still, transmitting heat to the arcuate bottom of the still to vaporize the oil, conducting vapor from the still to a condenser, maintaining the contents of the still under pressure, compressing gas and discharging streams of the gas transversely of the arcuate bottom through which heat is transmitted to the oil,



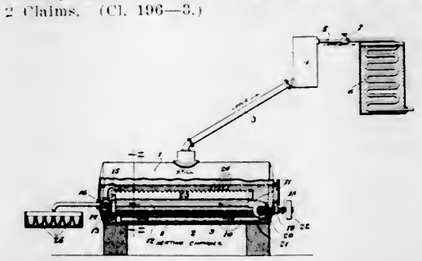
so as to force coke-forming substance across said arcuate bottom, and catching the coke-forming substance deflected from said arcuate bottom to prevent it from returning to the point at which heat is transmitted to the still.

1,345,133. APPARATUS FOR CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, a Corporation of Maryland. Filed Mar. 22, 1917. Serial No. 156,653. 2 Claims. (Cl. 196—3.)



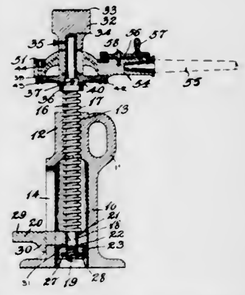
2. In an apparatus for cracking petroleum hydrocarbons, a horizontal cylindrical cracking still, a condenser connected thereto, means for heating the arcuate bottom of said still, a coke trap located within said still and separated from the arcuate bottom thereof, a discharge member located within said still between said arcuate bottom and the coke trap, and means for forcing fluid through said discharge member so as to circulate coke-forming substance transversely of said arcuate bottom and into said coke trap, said coke trap being in the form of a false bottom extending approximately from one end of the still to the other and provided with upturned longitudinal marginal edges over which the coke-forming substance is deflected by the fluid discharged across said arcuate bottom.

1,345,134. APPARATUS FOR DISTILLING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,465. 2 Claims. (Cl. 196—3.)



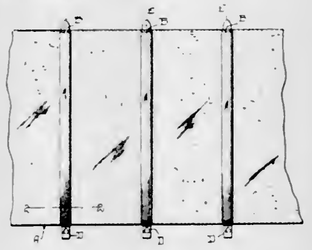
2. In an apparatus for cracking hydrocarbons, a still for the oil to be vaporized, said still being provided with a body of fusible metal on its bottom wall, a heating chamber below said bottom wall, and means for circulating said fusible metal into the oil and back to the main body of metal, said means comprising a pump arranged in the still, an intake conductor whereby fusible metal is conducted to the pump and a discharge member for the discharge of the metal from the pump to the body of oil in the still.

1,345,135. LIFTING-JACK. GEORGE C. CONDITO, Wingdale, N. Y. Filed Jan. 14, 1919. Serial No. 271,072. 3 Claims. (Cl. 254—98.)



1. A lifting jack comprising a pedestal, a lifting screw threadedly connected with the pedestal, a disk fixed to the screw and provided with an annular series of apertures, a spider member free to rotate on the screw above the disk and provided with sets of movable pawls adapted to coact with the apertures in said disk to respectively revolve the screw in two directions, means adapted to revolve upon the spider member, said means co-acting with the pawls and adapted to control their movements with respect to the apertures in said disk, mechanism for actuating said means, and a shoe carried by said screw.

1,345,136. MEANS FOR HOLDING SLATS TO BELTS. CHARLES G. COWAN, Driscoll, Tex., assignor of one-half to Evan W. Harris, Broadmoor, Tex. Filed Apr. 5, 1919. Serial No. 287,882. 1 Claim. (Cl. 193—4.)

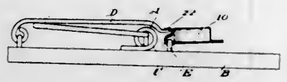


A device for fastening cleats to belts consisting of open-ended split shells of rectangular shape, the edges of the shells being bent upon themselves to form flanges with spaces between the latter, slats, each pointed at one end and the face of each slat provided with an indenture near its other end, said slats being adapted to telescope within the shells and hold the folded portions of the belt against the edges of said recess and the inner surface of the shell, said belt bearing against the outer faces of each flange, and the ends of the slats projecting beyond the opposite longitudinal edges of the belt.

1,345,137. MOUSETRAP-PEDAL. JOHN ELLIOTT COWEL, Crest, Colo. Filed Nov. 18, 1919. Serial No. 338,780. 2 Claims. (Cl. 43—81.)

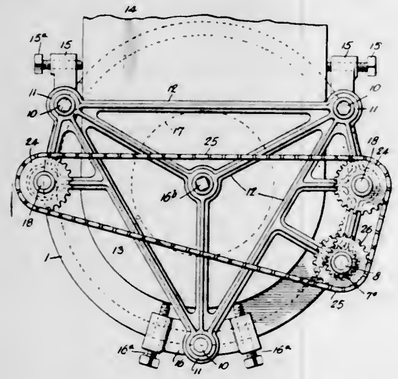
1. In a trap including a base, a spring arm mounted on said base and a setting member adapted to hold said

spring under tension; a releasing treadle for the spring comprising a hollow body pivotally mounted upon the base and having one end formed with a tongue bent and rebent to define a lip for engagement of said setting wire,



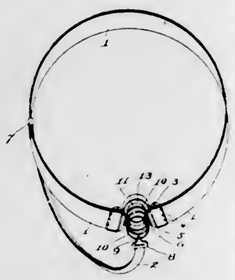
the end of said body adjacent said tongue being closed and the other end being normally open whereby to permit the insertion of bait, said second named end being formed with a tongue bendable over the end whereby to form a closure therefor.

1,345,138. PORTABLE LATHE FOR RECUTTING CRANK-SHAFT PINS. WILLIAM H. CRAUN, Hoboken, N. J., and PAUL MATHIS, Brooklyn, N. Y. Filed June 10, 1919. Serial No. 303,017. 19 Claims. (Cl. 82—4.)



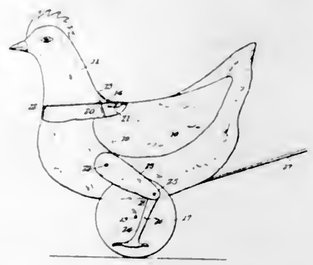
1. In a portable lathe applicable to crank shafts for recutting the pins thereof, a casing adapted to encircle the shaft, screw shafts fixed against lengthwise movement and having the casing mounted thereon for longitudinal movement, a ring gear revoluble in the casing during said longitudinal movement, a tool carriage secured to the inner periphery of the ring gear, means for operating said gear, and means operated by the ring gear for feeding the carriage radially.

1,345,139. TRUSS. JOHN CUNNINGHAM, Ukiah, Calif. Filed Dec. 14, 1918. Serial No. 266,736. 1 Claim. (Cl. 128—100.)



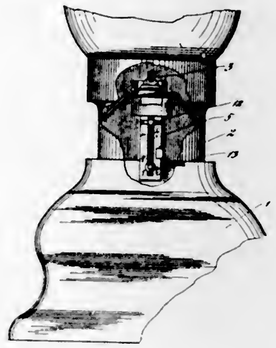
In a truss of the character described, a waist band, a hooked buckle on each end of the band, a pad, a coiled pad spring intervening the buckles and to which the hooks are slidably attached so as to permit free circular movement of the hooks on the spring with respect to each other, and a perineal strap slidable on the band and having a buckle hook for free circular movement on the spring between the band buckle hooks, substantially as set forth.

1,345,140. TOY. GEORGE CURRY, Altoona, Pa. Filed June 27, 1919. Serial No. 307,149. 2 Claims. (Cl. 46—45.)



1. A toy comprising a body, a crank shaft extending through said body, wheels secured upon each end of the crank shaft, a head hingedly secured to said body, a rod having one end connected to the crank shaft and the opposite end to the head to move the latter upon its hinge by the rotation of the wheels and a spring member located within the body in the path of the free end of and engageable with the head to produce a noise at each movement of the head.

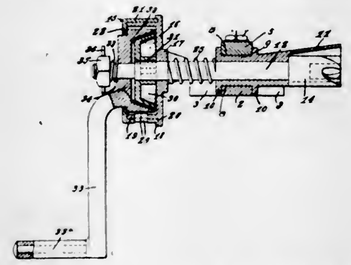
1,345,141. ATTACHMENT FOR WICK-LAMPS. ANDREW CZARNIECKI, Plymouth, Pa. Filed Nov. 19, 1919. Serial No. 339,075. 3 Claims. (Cl. 67—79.)



1. A device of the class described comprising a frame having a vertical slot therein, a boss slidable in said slot and having strings attached thereto, wings hingedly mounted to the upper part of said frame and having coiled springs normally holding said wings in their lowermost position, one of said strings being attached to each of said wings.

1,345,142. SAFETY-CRANK. HARRISON H. DAVIS, The Plains, Ohio. Filed Apr. 7, 1919. Serial No. 288,176. 1 Claim. (Cl. 74—33.)

In a starter for internal combustion engines, a carrier; a shaft journaled in the carrier and slidable longitudinally therein, the shaft being provied at its rear end with a grip; a casing wherein the shaft is journaled; rearwardly projecting pins carried by the casing and slidable longitudinally in the carrier; a clutch in the casing and comprising coöperating parts, one of which is secured to shaft; and means for rotating the other part of the clutch.



1,345,143. PROCESS OF FORMING FILLED MOUNTINGS. GEORGE H. DAY, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 13, 1916. Serial No. 136,697. 6 Claims. (Cl. 29—188.)

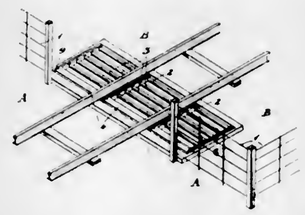


1. The process of forming filled stock for ophthalmic mountings or the like, consisting in mounting on a core a shell thicker on one side of the core than on the other, shaping the parts into non-circular form, holding the parts against twisting and reducing the parts while so held to produce a finished article having a thickened or reinforced portion of the shell continuous along the length thereof on one side and located in constant position relative to the non-circular cross sectional configuration of the wire.

1,345,144. AMMONIA-DISSOLVING COMPOSITION FOR USE IN REFRIGERATION APPARATUS. CHARLES DELAYGUE, Paris, France. Original application filed Feb. 27, 1914, Serial No. 821,428. Divided and this application filed Feb. 16, 1920. Serial No. 359,043. 3 Claims. (Cl. 252.)

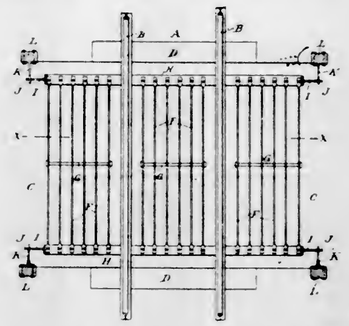
1. A refrigerating composition which consists of an ammonium salt, trimethylamin, ammonia, and water.

1,345,145. SAFETY DEVICE FOR CATTLE AT RAILWAY-CROSSINGS. JUAN ISMAEL DOMINGUEZ, Buenos Aires, Argentina. Filed Mar. 15, 1919. Serial No. 282,869. 4 Claims. (Cl. 39—19.)



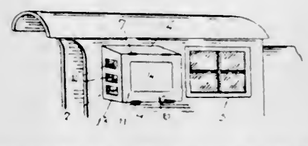
2. A cattle guard, comprising a pivoted frame having connecting cross members and a platform at its free end, counterbalancing means for the frame and a member carried by the counterbalancing means and adapted to be projected above the frame when said frame is depressed.

1,345,146. CATTLE-GUARD. JUAN ISMAEL DOMINGUEZ, Buenos Aires, Argentina. Filed Jan. 21, 1920. Serial No. 352,971. 2 Claims. (Cl. 256.—15.)



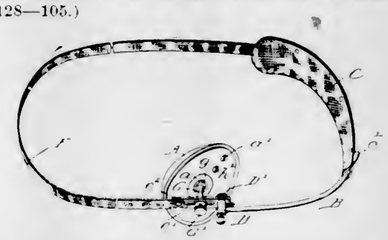
1. In a cattle guard for a railroad track, a pair of posts arranged on each side of the track, a grating extending under the track and formed of beams and spaced bars connecting the beams, angular arms on the ends of the beams, brackets on the posts, and links pivoted to the said brackets and arms.

1,345,147. STORM-WINDOW ATTACHMENT FOR LOCOMOTIVE-CABS. LEO R. DONOVAN, Norwood, N. Y. Filed May 2, 1919. Serial No. 294,351. 1 Claim. (Cl. 20—40.)



A storm window attachment for locomotive cabs having a window frame, including an outwardly projecting top section hinged to the upper edge of the inside of the window frame and foldable inwardly and upwardly toward the top of the cab, a downwardly extending vertical side section hinged to said top section and angularly related thereto and foldable to assume an opposite angular relation thereto close to the top of the cab, and a bottom section hinged to the lower edge of said side section and foldable against the inner side of the same close to the top of the cab, said bottom section having at its inner marginal portion detachable supporting connection with the window sill.

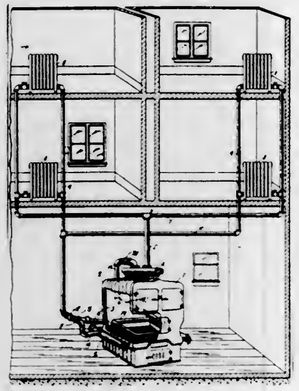
1,345,148. TRUSS. GEORGE H. EDDLEMAN, Memphis, Tenn. Filed Sept. 12, 1914, Serial No. 861,454. Renewed Jan. 7, 1920. Serial No. 350,056. 1 Claim. (Cl. 128—105.)



A truss comprising a pad, a body spring and a strap detachably connected at one end to said pad, and extending in opposite directions from the pad to embrace opposite sides of the body, the opposite end of the spring having a flattened end loop provided with a projecting stud for en-

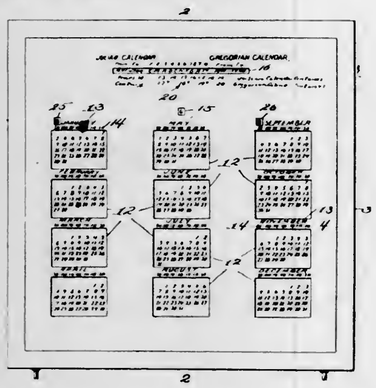
gagement by the opposite end of the strap, and a flexible envelop for the said body spring and consisting of detachable parts providing for its ready removal, and one of which parts has an opening exteriorly through which said stud projects when the envelop is in use.

1,345,149. HEATING SYSTEM. EDWARD EDSEN, Milwaukee, Wis. Filed Feb. 4, 1918, Serial No. 215,315. Renewed May 13, 1920. Serial No. 381,194. 1 Claim. (Cl. 237—61.)



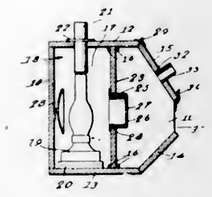
In a combination with a hot water system, a furnace having a water chamber and a fire chamber, headers respectively connected to the bottom and top portion of said water chamber, a pipe coil arranged within the fire chamber, means for establishing communication between the pipe coil and the top header, a horizontal pipe section positioned in the return pipe of said heating system, said horizontal section positioned on a level higher than the discharge end of the return side of said heating system, and a bleeder attached to said horizontal section and connected at its opposite end to said pipe coil whereby communication between said pipe coil and the return side of the heating system is established.

1,345,150. PERPETUAL CALENDAR. SIDNEY G. EDWARDS, Albany, N. Y. Filed Apr. 10, 1919. Serial No. 289,020. 6 Claims. (Cl. 40—117.)



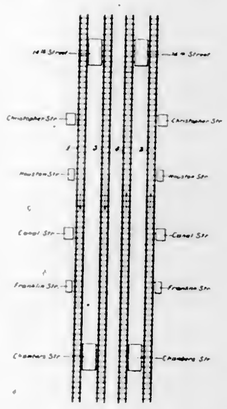
5. In a calendar, a sheet bearing a key composed of a group of distinguishing letters, said group including repetitions of said letters and said letters being arranged in vertical columns and horizontal rows in correlation to data in association with said columns and rows whereby any letter may be ascertained as the key letter for a particular year, a second sheet bearing a calendar chart composed of orderly arranged groups of numerals wherein said groups are apportioned to months and said numerals to days of the month, said sheets being movable independently of one another whereby when any of said letters is displayed the portion of the calendar chart for the year represented by the particular letter displayed will be visually associated therewith.

1,345,151. EGG-CANDLER. CLYDE W. ELLIS, Woodbury, Ky. Filed Oct. 18, 1919. Serial No. 331,635. 2 Claims. (Cl. 99—6.)



1. A cabinet of the character described comprising a casing including a back, ends, a top, a bottom, a plurality of partitions arranged within said casing and defining compartments therein, a lamp disposed within each compartment, a reflector behind each lamp, a flue pipe extending through said top into each compartment above the lamp therein, a pair of spaced strips secured upon the inside of the top and bottom and defining guides, cover plates slidable within said guides and adapted to cover said compartments, each cover plate being provided with a circular hole surrounded by an outwardly extending flange and covered by a plate provided with a pair of openings, an inclined front on said casing provided with openings opposite the openings in said cover plate, eye pieces surrounding said last named openings, and said front of said casing having an opening permitting the insertion of eggs and the operator's hands.

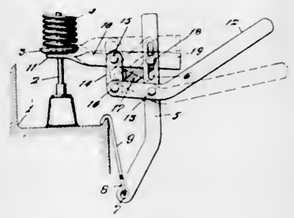
1,345,152. METHOD OF OPERATING TRAINS ON MULTITRACK CITY RAILROADS. GEORGE G. ERDOS, New York, N. Y. Filed Apr. 28, 1920. Serial No 377,273. 3 Claims. (Cl. 104—28.)



1. The method of operating trains on roads having express and local tracks, which consists in dividing the local

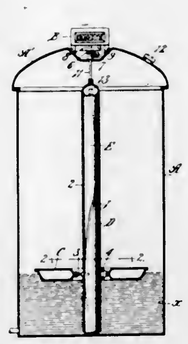
stations between each two express stations into two groups, one group including every alternate local station in each section and the other group including all local stations between the stations of the first group, dividing the local trains into two series and despatching them in alternate order, and causing the local trains belonging to one series to stop at every station of said first group and those of the second series at every station belonging to the second group, both series of local trains being stopped at every express station.

1,345,153. VALVE-SPRING LIFTER. GEORGE T. EUARD, Bradford, Ill. Filed Sept. 4, 1919. Serial No. 321,593. 5 Claims. (Cl. 29—87.1.)



1. A valve spring lifter, comprising a bar, a lifting arm, a lever pivotally connected to the bar, a link connecting the arm and the lever, and a second link connected to the lever and to the arm and movably connected to the bar.

1,345,154. LIQUID-STORAGE APPARATUS. EUGENE FAHL, Wichita, Kans. Filed Mar. 20, 1919. Serial No. 283,920. 3 Claims. (Cl. 73—82.)



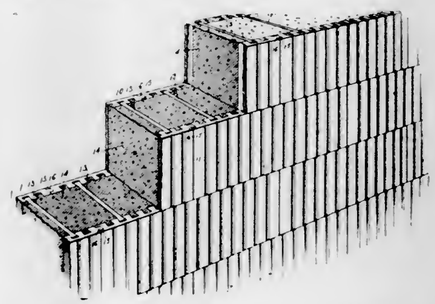
1. An apparatus for holding liquid, comprising a reservoir, an indicating device, a stationary member in said reservoir provided with a spiral groove, a tubular drive member surrounding said stationary member and provided with a straight slot that extends longitudinally of same, a connection between said drive member and indicating device, and a float in said reservoir provided with a rigid portion that passes through said slot and projects into said groove, whereby said float will revolve when it rises and falls.

1,345,155. PEN ATTACHMENT FOR PENCILS. HARRISON D. FLEGEL, Racine, Wis. Filed May 20, 1919. Serial No. 298,469. 5 Claims. (Cl. 120—42.)

1. An attachment for a commercial pencil comprising a member, one end of which receives the sharpened end of a pencil, and a pen carried by the other end of the member, said member receiving liquid and holding the same in contact with the sharpened end of the pencil to provide writing fluid for the pen.

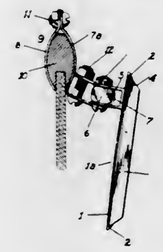


1,345,156. CEMENTITIOUS STRUCTURE. DENNIS JOHN FLYNN, New Brunswick, N. J. Filed Feb. 17, 1919. Serial No. 277,609. 1 Claim. (Cl. 72—30.)



A structure of the class described, comprising oppositely disposed slabs, the inner faces of the said slabs having a plurality of dove-tail grooves formed therein intermediate of their ends, tying plates extending between said slabs and having their ends terminating in outwardly flaring dove-tail tongues, said tongues and grooves arranged to interlock to connect the opposite slabs with each other by means of said tying plates received in any of said opposite grooves and to hold the slabs spaced apart in parallelism, certain of said slabs terminating at one end in a dove-tail tongue engaging one of the dove-tail grooves on the inner face of another slab to form a corner construction.

1,345,157. ADJUSTABLE WINDSHIELD-MIRROR. MARSHALL E. FRANCISCO, Fresno, Calif., assignor of one-half to Mount K. Wild, Fresno, Calif. Filed Oct. 4, 1919. Serial No. 328,541. 1 Claim. (Cl. 45—97.)



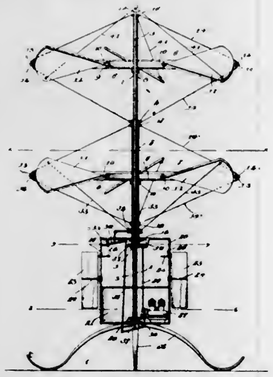
In combination with a clamp adapted to be adjustably secured to a windshield, a spring plate secured to the clamp, inwardly angled flanges on two opposed edges of the plate, and a bevel-edged and relatively long rectangular mirror adapted to be held and gripped between the flanges, the plate being normally convexly curved relative to the mirror, whereby to position the latter the plate must be temporarily straightened to allow the mirror to slide between the flanges.

1,345,158. DISPLAY DEVICE. HENRY L. A. FRANK, Plainview, Tex. Filed Mar. 25, 1919. Serial No. 285,092. 1 Claim. (Cl. 211—17.)



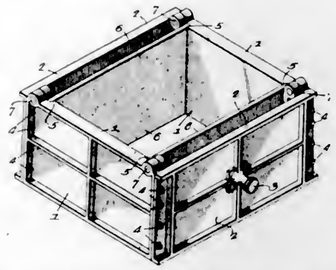
A display device comprising a tubular casing, spaced partitions in said casing, a tube extending through the partitions and forming a weight chamber between itself and the partitions and casing, one of said partitions having an opening to permit heavy substance to be placed in and removed from the weight chamber, a flexible element secured to one end of the casing and passing over a supported pulley and downwardly in said tube, a cap closing the lower end of said casing and having an opening therein, a rod extending through the opening of said cap and into the tube and connected to the flexible element, an apparel attaching element secured to said rod, a cushioning means on said rod between the cap and the apparel attaching element, and a flexible element connected to said rod depending below the apparel attaching element.

1,345,159. FLYING-MACHINE. JAMES H. FREEMAN, Salida, Colo. Filed Sept. 5, 1919. Serial No. 321,738. 1 Claim. (Cl. 244—19.)



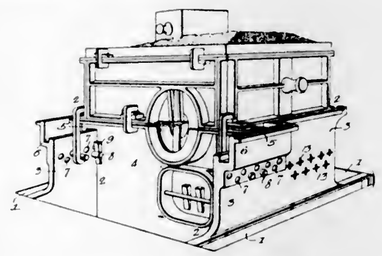
In a helicopter flying machine, a plurality of normally vertical propeller shafts having coinciding axes and nested one within another, means preventing relative longitudinal movement of said shafts, a car supported by and journaled on one of said shafts, an engine supported by said car, driving connections between said engine and shafts to drive the latter in opposite directions, aerial lifting propellers fast on said shafts, said propellers embodying feathering blades, and manually controlled means for concurrently varying the pitch of the blades of said propellers, the last named means comprising a central rotary longitudinally slidable shaft passing through said propeller shafts, manually operable means for shifting said slidable shaft and connections between the last named shaft and said propeller blades, including a runner slidable upon one of said propeller shafts.

1,345,160. BOX FOR FORMING MOLDS. EDWARD FRIES, Moores, Pa. Filed Oct. 11, 1919. Serial No. 330,075. 5 Claims. (Cl. 22—106.)



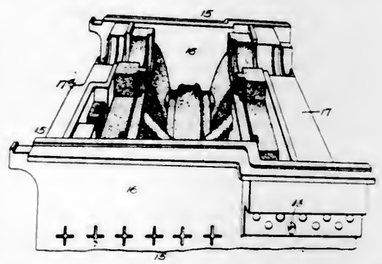
1. The combination of a box in which a mold is formed, said box having permanent side and end walls and movable side plates located within the box; and means for adjusting said movable side plates without disturbing the permanent structure of the box.

1,345,161. PIT-FLASK FOR CASTINGS. EDWARD FRIES, Moores, Pa. Filed Oct. 11, 1919. Serial No. 330,076. 6 Claims. (Cl. 22—100.)



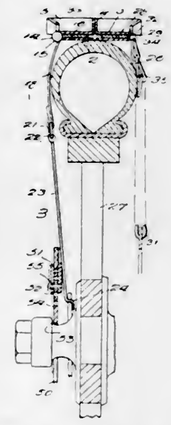
1. The combination in a flask adapted to be located in a pit, of fixed end walls and side walls located between the end walls, one of said side walls being adjustable; and an adjustable bottom located within the flask and supporting the mold.

1,345,162. PROCESS OF PREPARING MOLDS FOR CASTING. EDWARD FRIES, Moores, Pa. Filed Oct. 15, 1919. Serial No. 330,692. 4 Claims. (Cl. 22—193.)



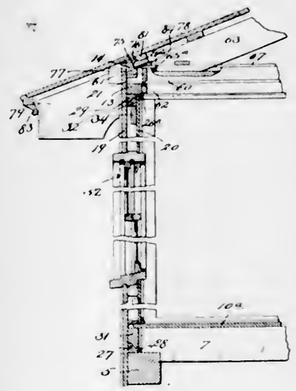
1. The process herein described of making molds for castings, said process consisting in first placing a pattern within a forming box, making a mold within the box, placing a bottom plate on the mold, inverting the box, removing the box and pattern from the mold, baking the mold while on the bottom plate without a flask, then carrying the mold by the bottom plate to a fixed flask having an inner dimension of a size to receive the bottom plate, lowering the bottom plate, with the mold, into the flask, and closing the flask for pouring.

1,345,163. TIRE-GUARD. JOHN FRIESEN, Lehigh, Kans. Filed Feb. 1, 1919. Serial No. 274,393. 3 Claims. (Cl. 152—33.)



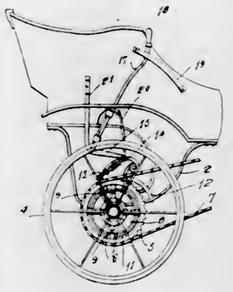
1. The combination with a hub tap engaging ring of a tire guard, of another ring adapted for engagement with the hub of the wheel about which the guard is positioned, and hub clamping members mounted on the last mentioned ring for coacting with the first mentioned ring for preventing displacement of the guard.

1,345,164. BUILDING CONSTRUCTION. ERNEST P. GARNER, Charleston, S. C. Filed Feb. 13, 1919. Serial No. 276,853. 18 Claims. (Cl. 20—2.)



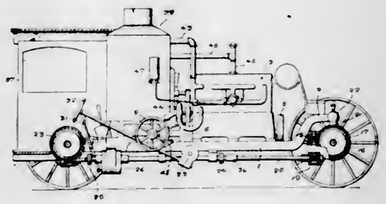
1. A building comprising sills with tongued strips on the upper sides thereof, joists engaging the sills and having a floor laid thereon, studs rising from the sills and having lower grooved ends fitted over the said tongued strips, wall plates mounted over and engaging the studs and provided with lower groove means, outer and inner wall panels between the studs, the outer panels having lower and upper grooved cleats to interlock with the tongued strips of the sills and groove means of said plates, the lower extremities of the outer panels covering the outer sides of the sills, and a roof structure mounted over the sills.

1,345,165. BRAKE. SAVINO GIACOLETTO, Hancock, Mich. Filed Sept. 27, 1917. Serial No. 193,583. 2 Claims. (Cl. 188—26.)



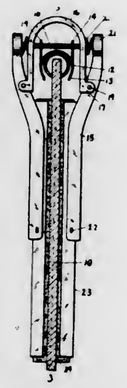
1. A vehicle brake comprising the combination with the body, springs and wheels of a vehicle, of a pair of brake drums secured to the vehicle wheels, a pair of brake bands disposed about said brake drums, each brake band having one end thereof turned and secured to the springs of the vehicle, a rotatable rod mounted beneath said body, a supporting member for said rotatable rod carried by said body, arms extended at a right angle from the end of said rotatable rod, adjustable and flexible connections between said arms and the remaining ends of the said brake bands, a lever connected with said portable rod to operate the latter, bracing connections between said lever and one of said arms of the rotatable rod, and a guide member for said lever mounted on the body of said vehicle.

1,345,166. TRACTOR. PETER J. GIETZEN, Glen Ullin, N. D. Filed May 17, 1919. Serial No. 297,750. 1 Claim. (Cl. 180—49.)



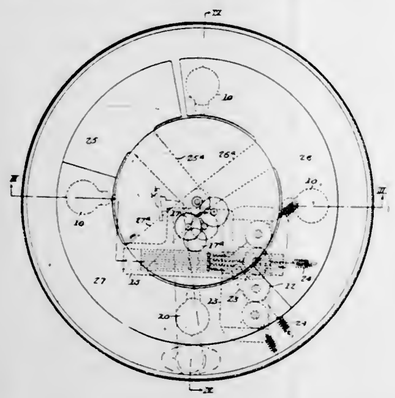
A tractor comprising a frame having its side bars converging at their forward ends, a head carried by said ends, front and rear wheels supporting axles for the frame, a differential for each axle, an engine, means for connecting the same with the differentials, an upwardly extending ball extension on the housing of the front differential and the head having a socket for receiving said extension and steering means connected with the front axle.

1,345,167. WINDSHIELD-CLEANER. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Filed Dec. 22, 1919. Serial No. 346,689. 4 Claims. (Cl. 15—59.)



1. A windshield cleaner comprising a guide adapted to engage over the edge of a windshield, a yoke carried by the guide, levers mounted on the yoke, springs between the levers and the yoke for urging the levers against the windshield, and wipers carried by the levers.

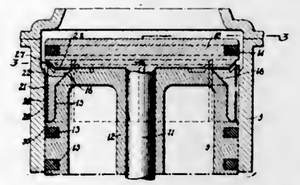
1,345,168. ILLUMINATING MEANS. MARY HALLOCK GREENEWALT, Philadelphia, Pa. Filed Jan. 18, 1919. Serial No. 271,844. 24 Claims. (Cl. 240—2.)



24. The combination of a rotatable record-carrying member, a translucent inclosure for the same, colored films supported by the record-carrying member, a source of illumination, and means operatively connected with the rotatable record-carrying member for controlling the intensity of such illumination.

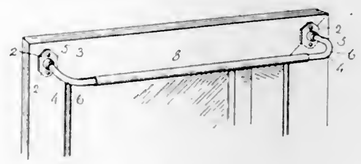
1,345,169. INTERNAL-COMBUSTION ENGINE. RICHARD PALMER GRIEVE, Boston, Mass. Filed Sept. 9, 1919. Serial No. 322,651. 2 Claims. (Cl. 123—66.)

1. In an internal combustion engine, a cylinder, a piston having a reduced end and slidably mounted in said cylinder, a second piston mounted between the first-mentioned piston and one end of said cylinder, an annular flange integral with the second-mentioned piston and adapted to receive the reduced end of the first-mentioned piston and provided with a series of circumferentially arranged by-passes adapted to establish communication



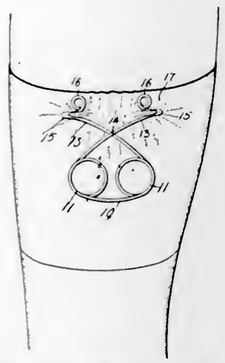
between the interior of said annular flange and the exterior of the piston, and means for controlling the relative movement of said pistons.

1,345,170. CURTAIN-HOLDER. ANNIE M. GROSS, Philadelphia, Pa. Filed Nov. 8, 1918. Serial No. 261,676. 1 Claim. (Cl. 156—22.)



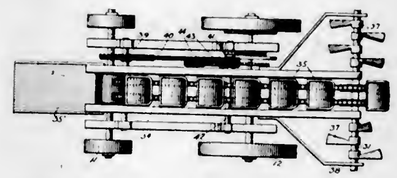
In a curtain holder, end bracket plates adapted to be secured to the window casing and spaced apart, tubular angular carrier members also spaced apart and having pivotal connection with said bracket plates to swing in a vertical plane and extending toward each other, a straight inner rod of a diameter to fit neatly within the bore of and bridging said members and slidably adjustable to escape from one of said members and engage the other member alone, and an outer straight tubular curtain-carrying rod of a diameter to fit neatly over and also bridging said members and slidably adjustable to escape from one of said members and engage the other member alone, both of said rods being slidable in one direction to escape from one of said carrier members and adjustable in a vertical plane upon pivotal movement of the other carrier member, and said outer rod being slidable upon said inner rod as a guide in placing the curtain upon the holder.

1,345,171. CLASP. EDWARD L. GUNDLACH, St. Louis, Mo. Filed June 3, 1919. Serial No. 301,388. 4 Claims. (Cl. 267—1.)



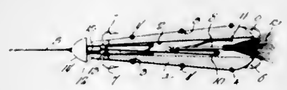
1. A hose supporting clasp formed from a single length of resilient wire and including an intermediate loop and relatively movable limbs, each limb being formed to provide a bight for the fabric, the clasp in its entirety, being curved longitudinally to conform to the shape of the limb.

1,345,172. WAGON-LOADER. GEORGE HAISS, New York, N. Y. Filed Apr. 26, 1919. Serial No. 292,825. 3 Claims. (Cl. 193—31.)



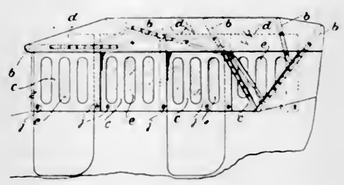
1. In a wagon loader, a frame, traction wheels for supporting the frame, a conveyer carried by the frame, driving mechanism for said conveyer, driving mechanism for the traction wheels and normally out of operative connection with the power-supplying means of the loader, and a vertically disposed shaft driven by the conveyer-driving mechanism and adapted to be engaged with the driving mechanism of the traction wheels to drive the latter from the conveyer-driving mechanism.

1,345,173. ARTIFICIAL BAIT. GEORGE HALDER, Milwaukee, Wis. Filed Nov. 11, 1919. Serial No. 337,188. 7 Claims. (Cl. 43—35.)



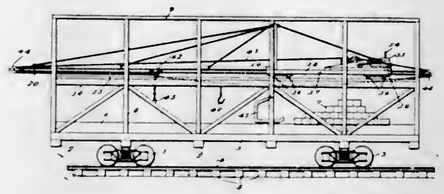
1. A bait comprising a tubular body, a pin disposed within the bore of the body transversely thereof, a fish hook normally retracted within the bore, and having its shank disposed longitudinally thereof and between said pin and the adjacent wall of said bore, and a line extended into the bore of the body on the opposite side of the pin from said shank and connected to the latter, said line causing the shank of the hook to be projected substantially to the body upon an abnormal pull on the former.

1,345,174. VEHICLE-TOP. FREDERICK HAROLD HALL, Claverdon, England. Filed May 20, 1919. Serial No. 298,499. 2 Claims. (Cl. 296—141.)



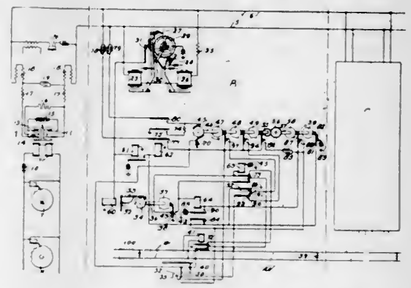
1. A folding vehicle top comprising a collapsible roof portion, side curtains secured at their upper ends to the roof portion, and means for detachably securing the lower portions of the curtains against the roof portion with the said curtains in a flat or extended condition, said securing means being placed so that the turned-up curtains can fold with the roof portion in a zig-zag manner, and said side curtains being arranged to be turned up against the roof portion without being detached at their upper ends.

1,345,175. TRACK-LAYING MACHINE. HARRY HALL, Manton, Mich. Filed Feb. 6, 1920. Serial No. 356,716. 4 Claims. (Cl. 104—5.)



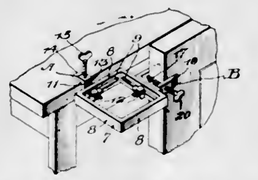
1. A track laying machine, embodying a wheeled railway car, a skeleton frame rising from the platform of said car, and comprising uprights, track rails supported on the inner sides of said uprights, a wheeled trolley frame, supported and movable upon said rails, an engine carried by said trolley frame, guide rollers at opposite ends of said trolley frame, engine operable drums journaled on said trolley frame, a cable wound upon said drums and passing over said guide rollers, and a sling attached to said cable.

1,345,176. RAILWAY SIGNALING SYSTEM. JOHN B. HARLOW, Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1917. Serial No. 163,395. 8 Claims. (Cl. 246—5.)



5. In a railway signaling system, a signal semaphore adapted to be moved to two positions, means for moving the signal semaphore to clear position, an answer back mechanism including a plurality of codifying devices, an answer back circuit completed while the signal semaphore is moving to danger position, a switching device operated when the signal semaphore is in clear position to include one of the codifying devices in the answer back circuit, means for moving the signal semaphore from clear to danger position, and a switching device operated when the signal semaphore is in danger position to include another of the codifying devices in the answer back circuit.

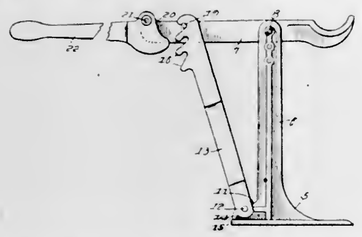
1,345,177. MECHANIC'S HANDY HOLDING DEVICE. LEONARD LEO HECKATHORN, Nowata, Okla. Filed Oct. 22, 1919. Serial No. 332,521. 1 Claim. (Cl. 144—288.)



A holding device comprising a frame having slotted side members, a thumb-screw movable in the slot of one

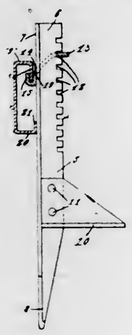
of said members, a clamp arranged to grasp a support and to hold said frame in place secured thereto by said thumb-screw and rotatable with respect to the frame when the screw is loosened, another thumb-screw movable in a slot of one of said frame members, and a clamp secured to the frame by said latter screw, rotatable with respect to the frame when the screw is loosened, and arranged by itself to grasp an article.

1,345,178. LIFTING-JACK. JOHN HEINEN, Atchison, Kans. Filed Jan. 29, 1920. Serial No. 354,991. 3 Claims. (Cl. 254—130.)



1. In a lifting jack, a base having a standard, a load supporting member pivotally connected to the standard, a pin extending transversely of the load engaging member, a link pivotally connected to the standard and having means for engaging the pin, a lug at the lower end of the link engaging the base for holding the link against movement in one direction, and means for exerting pressure on the load engaging member.

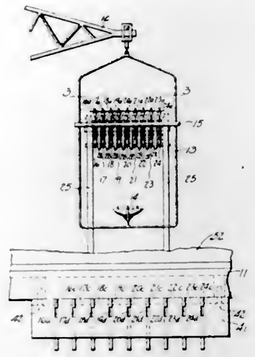
1,345,179. CONCRETE-MOLD-FORM STAY. JOHN N. HELTZEL, Warren, Ohio, assignor to The Heltzel Steel Form & Iron Co., Warren, Ohio. Filed Oct. 4, 1919. Serial No. 328,469. 4 Claims. (Cl. 25—118.)



4. In a portable mold, stays, each of said stays being provided with a notched portion, a bracket supported by each of the stays, each of said stays having a slotted portion embacing the bracket, one of the walls of said slotted portion coöperating with the notches for supporting the bracket in various positions of adjustment, and said bracket being curved downwardly to set up a binding action between the bracket and stay, and a movable form supported by the bracket.

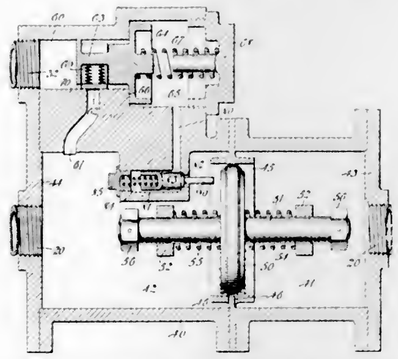
1,345,180. MULTIPLE-WEIGHT ATTACHMENT FOR PRECISION-BALANCES. WILFRID HEUSSER, Salt Lake City, Utah. Filed Apr. 4, 1918. Serial No. 226,766. 8 Claims. (Cl. 265—54.)

1. In a multiple weight attachment for balances, the combination with the balance structure, of a suitably disposed grid having perforated depressions therein, washer-like weights adapted to rest in the said depressions, a plurality of suitably formed staffs adapted to move up and down through the perforations in the said grid, arms for supporting the said staffs, a plurality of operating



keys suitably fulcrumed, means for frictionally holding the said keys under yielding pressure and means for communicating motion from the said keys to the said arms.

1,345,181. DOUBLE-HEADING AIR-BRAKE SYSTEM. EDGAR R. HEWITT, Plattsburg, N. Y. Filed July 17, 1919. Serial No. 311,566. 6 Claims. (Cl. 303—14.)



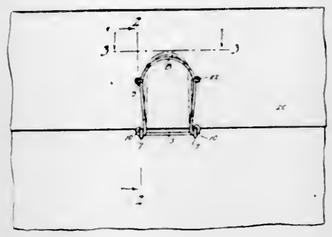
1. In a double heading brake system, the combination of a main reservoir on each locomotive, a train pipe and a tapping device interposed in the said train pipe and provided with means for controlling the passage of train pipe air pressure from the main reservoir of the first locomotive through the tapping device, the said tapping device having means connecting the main reservoir of the second locomotive with the train pipe by way of the tapping device, the said second means being controlled by the said first means.

1,345,182. BOTTLE-CAP REMOVER. ALBERT L. HIGGINS, Bar Harbor, Me. Filed Jan. 23, 1919. Serial No. 272,736. 6 Claims. (Cl. 215—53.)



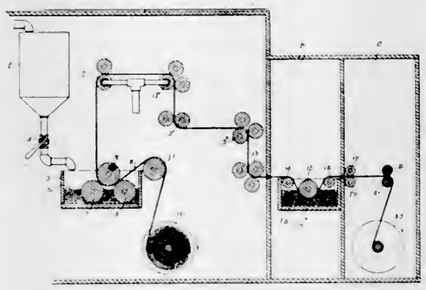
1. A bottle cap remover including a lever or body member, a shank associated therewith, and an enlarged penetrating point carried by said shank, the forward portion of said shank being provided with concaved notches in its longitudinal edges for receiving the edges of the slit caused by the penetrating member, said lever being adapted to move about a horizontal axis.

1,345,183. CLASP. LUIS B. HOCHSTEIN, Endicott, N. Y. Filed Dec. 18, 1919. Serial No. 345,733. 2 Claims. (Cl. 24—261.)



2. A device of the character described comprising a pair of U-shaped body members adapted to be pivotally secured together, one of which is provided with a plurality of loops at its base and adapted for engagement with loops provided at the free ends of the legs of the other U-shaped body member for pivotally securing the two together, and means formed on the free ends of each leg of the first-mentioned U-shaped member for engagement with the legs of the other U-shaped member to secure the device in operative position.

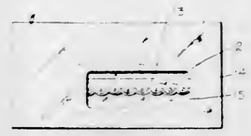
1,345,184. PROCESS AND APPARATUS FOR MAKING A TRANSLUCENT MEDIUM FOR USE IN THE PHOTOGRAPHIC ARTS. FREDERICK W. HOCHSTETTER, Dayton, Ohio, assignor of one-half to W. I. Ohmer, Dayton, Ohio. Filed Nov. 13, 1919. Serial No. 337,825. 9 Claims. (Cl. 91—70.)



1. In combination, a tank, means for conveying a strip of material therethrough, a plurality of heated rollers, a second tank, means adjacent thereto for conveying a strip of material therein, cold rollers and buffers, whereby said combination effects a change in the character of said material.

5. In a process of making paper translucent, passing said paper into a temperature above normal of the surrounding air, treating said paper to make it translucent, passing it over hot rollers, passing it into a chamber of lower temperature but still above normal, giving it a finishing treatment to make it translucent, passing it into a chamber of normal temperature, treating it with cold rollers and buffing it.

1,345,185. MERCHANDISE-PACKAGE. JULIUS HOFMANN, Providence, R. I., assignor to Hope Webbing Company, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 26, 1919. Serial No. 279,441. 1 Claim. (Cl. 206—49.)



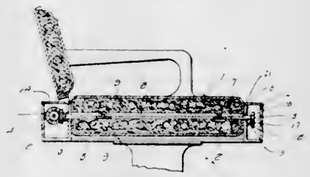
A merchandise package comprising a card about which is wound a plurality of strands of merchandise, each contiguous to the other, a display sheet frictionally held beneath one strand of the goods and over contiguous strands on each side thereof, and an envelop proportioned to receive the card of goods and having an opening smaller than said display sheet proportioned to display therethrough part of said display sheet and the single strand of goods exposed thereon, and to be closed thereby to the exclusion of dust and dirt from said envelop and the bulk of the merchandise.

1,345,186. TOOL FOR REMOVING WHEELS FROM THEIR AXLES. CHARLES W. HOLLAND, Altoona, Pa. Filed May 31, 1919. Serial No. 301,009. 1 Claim. (Cl. 29—85.)



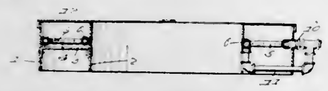
In a tool of the character described, a clamping member, a screw threaded through said member and provided on its inner end with a ball, and a cap member loosely receiving the ball so as to permit independent relation thereof, the cap member being movable about the ball and provided with a centering point.

1,345,187. CHAIR-SEAT. JOSEPH P. HOLLAND, Key West, Fla. Filed Dec. 9, 1919. Serial No. 343,455. 1 Claim. (Cl. 155—183.)



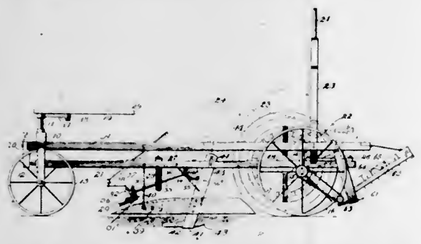
A chair seat comprising front and rear channel members, bars connecting said channel members, supporting bars journaled to the inner walls of the channel members, panels secured to the supporting bars, an operating shaft journaled in the rear channel member, means connecting the supporting bars to the operating shaft, upholstering secured to the panels, a tension and pivotally mounted locking plate pivoted in the front channel member and having notches to receive the ends of the supporting bars for holding them against accidental rotation, and removable covers closing the upper ends of the channel members.

1,345,188. TIRE-OVEN. ISAAC C. HOWLETT, Bangs, Tex. Filed Feb. 7, 1919. Serial No. 275,603. 1 Claim. (Cl. 263—5.)



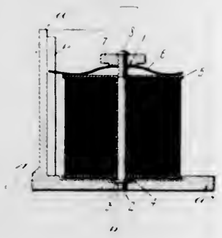
An oven for the purpose indicated comprising an inner annular casing, and an outer annular casing, combined braces and supports radially disposed and connecting the two casings together whereby the two are held in spaced relation to each other, an annular fuel conducting pipe disposed against the inner wall of the outer casing and just above the combined braces and supports, a similar annular fuel conducting pipe disposed against the outer wall of the inner casing directly opposite the first said pipe, both pipes being provided with burners radially disposed with those of the one pipe directed toward those of the other pipe whereby a tire supported on the combined braces and supports may be heated on both its inner and outer periphery, cover members hingedly attached to the outer casing and movable to and from positions of closure for the space between the two casings, and means for conducting fuel to the two said annular fuel pipes.

1,345,189. AGRICULTURAL MACHINE. ROBERT C. HOWSER, Indianola, Iowa. Filed Mar. 28, 1917. Serial No. 158,012. 3 Claims. (Cl. 55—108.)



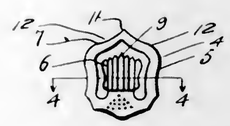
1. In a beet harvesting machine, a frame, an axle mounted in the frame, a pair of spaced wheels mounted on the axle, pivotally mounted gripping jaws mounted on each wheel with those on the two wheels disposed so as to coact in pairs, the gripping jaws being pivoted to one side of their center of gravity so that they will hang normally in open position or a position in which they are farthest apart, resilient tail extensions formed with the gripping jaws, and a spreading segment carried by the frame so that it will pass between the tail extensions of the jaws as the wheels rotate, thereby to throw the individual jaws of each pair into gripping position, as herein shown and specified.

1,345,190. SPOOL. MILLER REESE HUTCHISON, West Orange, N. J. Original application filed Feb. 2, 1917, Serial No. 146,061. Divided and this application filed Dec. 22, 1917. Serial No. 208,341. 7 Claims. (Cl. 242—130.)



1. A magazine mechanism comprising a stud member, a member rotatably mounted thereon, a collar formed at or near one end of said stud, a washer for supporting said rotatable member and mounted on the stud adjacent said collar, the washer having movement relative to the rotatable member, means integral with the stud for preventing removal of the rotatable member and washer therefrom, and stationary means to impose a drag upon the rotatable member.

1,345,191. COLLAR-CLASP. WILLIAM HUTCHISON, Cleveland, Ohio. Filed Jan. 31, 1920. Serial No. 355,298. 1 Claim. (Cl. 24—101.)

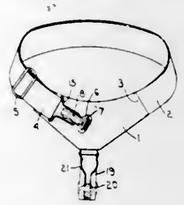


A collar-clasp, comprising a body having a tongue struck up therefrom and defining a frame, said tongue being concaved and having a curved free end, serrations formed on the free end of said tongue, said frame being pointed at a point adjacent the free end of the tongue and curved laterally of the tongue to permit said end to be freely inserted within the pocket of a shirt band.

1,345,192. PROCESS OF MANUFACTURING STEEL. ROBERT H. INGOS, Harrisburg, Pa., assignor to Central Iron & Steel Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Aug. 14, 1919. Serial No. 317,520. 6 Claims. (Cl. 75—27.)

6. The step in the method of carrying out the scrap and carbon process of manufacturing steel, which consists in supplying manganese-containing material to a charge of scrap steel and carbonaceous material in a basic open hearth furnace in such quantity as to provide residual manganese throughout the refining operation.

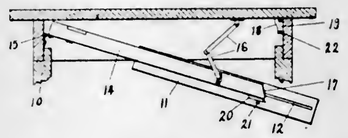
1,345,193. HOSE-SUPPORTER. WINTHROP M. JAMESON, Cambridge, Mass. Filed June 30, 1919. Serial No. 307,815. 7 Claims. (Cl. 241—6.)



1. A hose supporter comprising a non-elastic leg encircling band, means depending from said band for attachment to the hose, a two part separable fastener detachably and yieldingly uniting the ends of said band, one part of the said fastener consisting of a hook shaped casing and a longitudinally expansible spring inclosed therein, and the other part of the said fastener consisting of a loop member which when in engagement with the first part swings transversely of the first part and rests against the end of said spring and guided by the mouth of the hook shaped casing slides longitudinally thereof with and against the action of said spring.

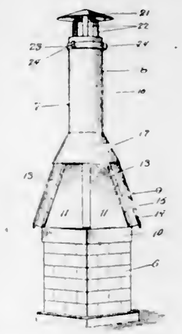
1,345,194. TABLE-DRAWER. LEWIS O. JOHNSON, Ralston, Nebr. Filed Jan. 23, 1920. Serial No. 353,600. 6 Claims. (Cl. 45—77.)

1. In combination with a table including a table top, edge boards supporting the top, and legs secured to said edge boards, of a drawer, guides hinged to one of said edge boards and slidingly supporting said drawer, and means



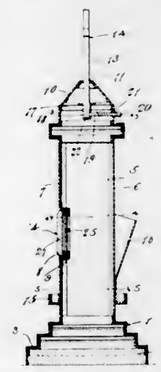
for holding the guides and drawer in raised position beneath the table top and concealed by said edge boards.

1,345,195. DRAFT APPLIANCE FOR CHIMNEYS OR VENTILATOR-STACKS. ALFRED JONES, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,267. 3 Claims. (Cl. 98—4.)



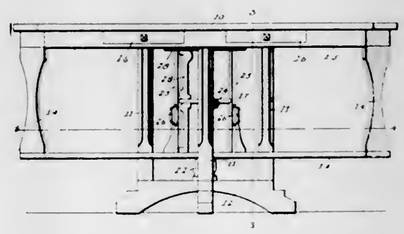
2. A draft appliance, comprising a rectangular base portion having upwardly inclined, flat sides, terminating in a tubular end, and wings secured thereto at the corners, and formed with transverse flanges, said inclined sides, with their flanged wings, converging upwardly toward each other, and a removable stack surrounding and spaced away from said tubular end and having a downwardly and outwardly flaring hood resting upon and supported by said wings, said inclined sides, wings and hood forming individual air passages, disposed around the upper end of the base portion.

1,345,196. MONUMENT. WALTER J. KENNEDY and GEORGE YELLE, Indian Orchard, Mass. Filed May 9, 1916. Serial No. 96,348. 1 Claim. (Cl. 189—23.)



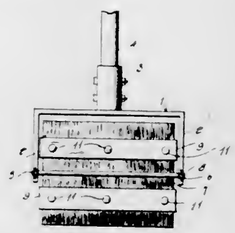
A monument comprising a hollow shaft, a pyramidal shaped cap closing the upper end of said shaft and having an opening in its apex, a spider secured within the cap adjacent its largest end, a socketed member formed on said spider and depending therefrom and in vertical alinement with said opening and spaced a considerable distance therefrom to receive the end of a cross after passing through said opening, said socketed member having an opening in one wall thereof, and a spring pressed pin slidably mounted in said shaft and entering the last named opening to hold the cross in said socketed member and to secure the cap to said shaft.

1,345,197. COMBINED TABLE AND BOOK-STAND. WESLEY W. KILLION, Terre Haute, Ind. Filed Apr. 12, 1919. Serial No. 289,545. 2 Claims. (Cl. 45—79.)



1. A combined table and book case embodying a stand legs rising from the stand, a top mounted upon and extending an appreciable distance beyond the legs, a shelf supported upon the legs, said shelf being of substantially the same area as the table top, standards connecting the ends of the shelf and top and a book case arranged between the top and shelf and the legs.

1,345,198. REVERSIBLE BRUSH. WILLIAM F. KUCK, Bocaratone, Fla. Filed Oct. 26, 1918. Serial No. 259,861. 1 Claim. (Cl. 15—13.)

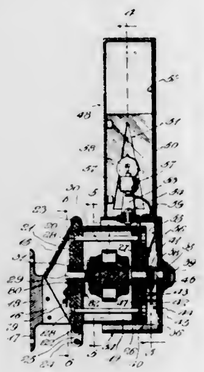


A brush comprising a substantially U-shaped head having openings in the ends of the arm portion, means securing a handle to the web portion of the head, a fibrous body disposed between the arm portions and having oppositely disposed brushing ends, a rod disposed on each side of said body and bent inwardly in the direction of each other to form end portions that bear against the edges of said body, the ends of said end portions of the rods being bent at right angles to said end portions and parallel with the remaining portions of said rods and extending into the openings, and set screws carried by the arm portions of the head and adapted to lock the ends of said rods against rotation in the openings.

1,345,199. DIRECTION-INDICATOR FOR AUTOMOBILES OR THE LIKE. CLYDE W. LANDERS, Portland, Oreg. Filed Feb. 24, 1919. Serial No. 278,753. 6 Claims. (Cl. 177—327.)

1. A direction indicator of the character described, comprising an inner casing, a support for the same, a motor

arranged within the inner casing and including an armature shaft, an outer casing receiving the inner casing and



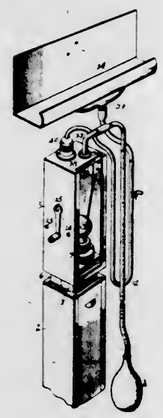
carried by the armature shaft to be turned thereby, and a signal element carried by the outer casing.

1,345,200. ROLLER FOR PRINTING-PRESSES. LEE LA TOUR and ALTON F. MUNNELL, Omaha, Nebr., assignors of one-third to Warren Small, Omaha, Nebr. Filed May 29, 1919. Serial No. 300,768. 4 Claims. (Cl. 91—67.8.)



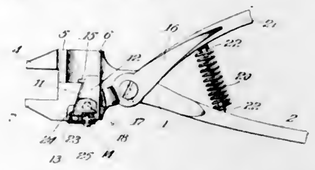
2. An inking roller, comprising a shaft, a sheet wound upon the shaft and subjected to a heat approximately of 290 degrees, said sheet consisting of a part of the following ingredients which include approximately, in weight, aluminum flake, 2 lbs., lime, ½ lb., sulfur, 3½ lbs., magnesia, 4 lbs., rubber, 40 lbs., and a softening agent.

1,345,201. FLASH-LIGHT-TESTING APPARATUS. GEORGE ALBERT LEY, Chicago, Ill. Filed Oct. 27, 1917. Serial No. 198,829. 3 Claims. (Cl. 67—31.)



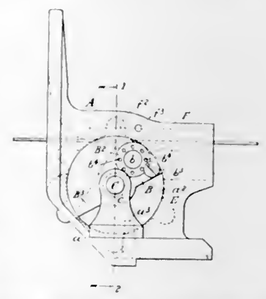
1. In a testing device interchangeably usable with high and low voltage currents, a lamp box having a receptacle for a lamp, a plug on the bottom, a battery box, and a plug socket on the top of the battery box joining said boxes when the plugs are fitted together, the battery box being detachable by separating the plugs when high voltage current is used.

1,345,202. WRENCH. ISAAC W. LITCHFIELD, Newtonville, Mass. Filed June 17, 1919. Serial No. 304,809. 20 Claims. (Cl. 81—148.)



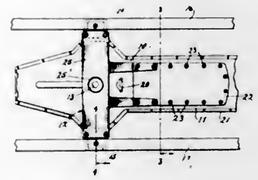
1. A wrench comprising relatively-movable hand-operated members, relatively-movable jaws and means whereby said jaws are moved into operative position by relative movement of said first-named members, said means comprising a wedge between one of said jaws and its operating member which becomes effective after said jaws are in operative position to grip the related jaw in said position upon continued relative movement of said first-named members.

1,345,203. APPARATUS EMPLOYED IN DRAWING AND SPINNING HEMP, FLAX, AND OTHER FIBROUS MATERIALS. JOSEPH LOVETT, Deptford, London, England, assignor of one-half to London Spinning Company, Limited, Deptford, London, England. Filed Oct. 23, 1919. Serial 332,778. 8 Claims. (Cl. 19—26.)



7. In a sliver nipper of the type described, a pivoted jaw, a spindle therefor, a disk on the spindle and a torsion spring engaged at one end with said disk to yieldingly hold the same in sliver-gripping position, but permitting the jaw to yield against the torsional action of the spring, together with a stop limiting the rotation of the jaw against the action of said spring.

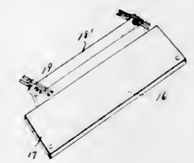
1,345,204. CRANK-CASE REINFORCEMENT. ROBERT G. LUNDGREEN, Chicago, Ill. Filed Sept. 30, 1919. Serial No. 327,506. 2 Claims. (Cl. 180—64.)



1. In combination, an automobile frame, a crank and fly wheel case, supporting means for attaching said case

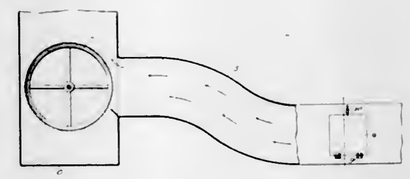
to the frame, supplemental supporting means underlying one portion of said case, bracing means projecting from said supplemental supporting means and attached to another portion of said case, and means for attaching said supplemental supporting means to the frame.

1,345,205. HEN'S NEST. LULU C. LUX, Thompson Falls, Mont. Filed Sept. 6, 1918. Serial No. 252,914. 1 Claim. (Cl. 217—62.)



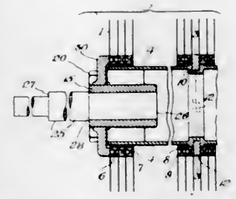
A hen's nest, comprising a body open at its top and having longitudinal slots in its sides adjacent to its open top, a plurality of cover sections whose ends are slidably engaged in the slots and whose bodies are slidable one upon the other to opened or closed position, the sections having at corresponding edges upturned flanges movable between said sides and the flange of one endmost section being secured to one end of the body, chains connecting all the flanges for holding the sections slightly overlapped when the cover is closed, and means for fastening the other endmost section to the body at that time.

1,345,206. COTTON-GIN. OSCAR CALVIN MCBRIDE, Granite, Okla., assignor to Wilkie Horatio Holtby, Mangum, Okla. Filed June 26, 1919. Serial No. 306,917. 8 Claims. (Cl. 13—17.)



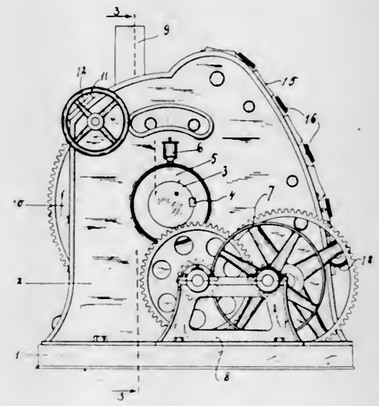
1. An improvement in cotton gins comprising, a lint flue, in which the cotton is conveyed from the gin to the condenser under forced draft, provided with an opening, a door for said opening, a bracket arranged adjacent said door, a trip pivotally mounted on said bracket having a trip arm and a spring mounted on said bracket and bearing against said trip arm whereby said trip maintains said door in closed position against normal pressure in said lint flue and allows such door to open outwardly when said pressure becomes excessive and the lint in said flue is in danger of backing up into the gin.

1,345,207. SAW-CYLINDER. ROBERT W. MCLEAN, Bridgewater, Mass., assignor to Carver Cotton Gin Company, East Bridgewater, Mass., a Corporation of Massachusetts. Filed Dec. 29, 1917. Serial No. 209,416. 11 Claims. (Cl. 13—14.)



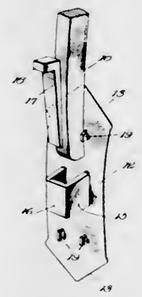
8. In a gin saw, in combination, a saw cylinder, a series of longitudinally arranged ribs upon its outer surface, said cylinder being provided with a circumferentially arranged abutment member, a series of circular saw blades mounted to slide along said ribs at either side of the abutment, and independent spacer rings slidably mounted upon said ribs and engaging contiguous surfaces of adjacent saws.

1,345,208. ROTARY COMPRESSION-MACHINE. WLADYSLAW MAJEWSKI, New York, N. Y. Filed Oct. 22, 1919. Serial No. 332,392. 6 Claims. (Cl. 25—75.)



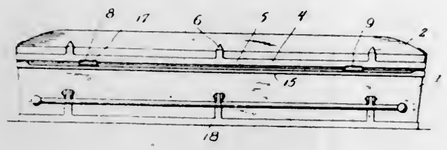
1. In a device of the class described, a drum having radial compression chambers and reciprocating plungers therein, an inner cam, an outer cam, plungers having means engaging said cams, a chain mounted to be moved in unison with said drum, said chain having links having compression plate members adapted to successively pass over the open ends of said chambers, said plate members being adapted to move vertically of said links, said chain mounted movably upon a bearing, said bearing having a cam thereon for moving said plate members toward said chambers when the former are about to cover the ends of the latter.

1,345,209. CULTIVATOR-TOOTH. CHARLES A. MARTIN, Congress Heights, D. C. Filed Jan. 9, 1920. Serial No. 350,277. 5 Claims. (Cl. 97—11.)



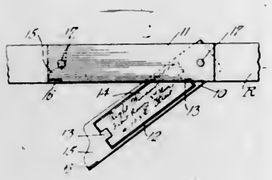
1. In a cultivator, the combination with a tooth having a lug and a U-shaped shackle provided with parallel side arms arranged on opposite sides of said lug, of a support extended through said shackle and having an opening receiving said lug, and a wedge engaged with said shackle and said support, said tooth being provided with means for guiding said support into said shackle.

1,345,210. GLASS CASKET. GEORGE H. MELLON, Pittsburgh, Pa. Original application filed Sept. 11, 1917, Serial No. 190,838. Divided and this application filed Jan. 23, 1918. Serial No. 213,347. 3 Claims. (Cl. 27—8.)



2. A glass casket comprising in combination a body, a lid therefor, a frame for the lid including a longitudinal band having a rib extending substantially the length of the frame and a frame for the body having a groove extending the length of the frame and receiving said rib and knuckles extending from the body frame and passing through openings in the lid frame in a manner to provide a detachable engagement with the latter.

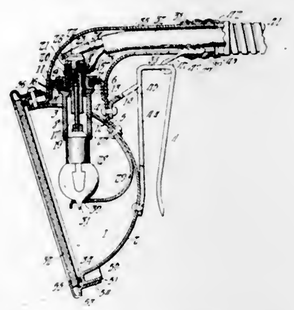
1,345,211. SCREEN-MARKER. JOHN COOPER MILNES, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,276. 1 Claim. (Cl. 40—61.)



A frame marker including a shielding plate positioned in spaced relation to the frame, a card-holding plate positioned between the shielding plate and the frame, said card-holding plate being formed of sheet metal of uniform thickness and having an offset portion defining a card-receiving depression, an identification card positioned within the depression, resilient gripping fingers struck from the card-holding plate and adapted to resiliently engage the identification card, a reduced extension formed at one terminal of the card-holding plate, a securing device extending through apertures formed in the shielding plate and card-holding plate and projecting into the frame, thereby forming a pivot for the card-holding plate and securing means for the shielding plate, a separate securing device extending through the shielding plate and projecting into the frame, and adapted to engage the reduced extension to thereby limit the inward movement of the card-holding plate about its pivot.

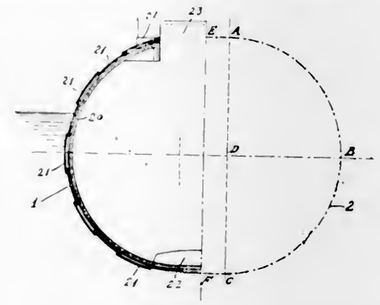
1,345,212. ELECTRIC SAFETY-LANTERN. JAMES F. MONAHAN, Newark, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed Nov. 23, 1915. Serial No. 62,981. 12 Claims. (Cl. 240—17.5.)

1. In an electric safety lantern, an electric circuit including an incandescent lamp, a hollow contact member provided at one end with a seat for engagement with one terminal of said lamp, and a spring pressed contact member slidably mounted within said hollow contact member and adapted to engage the other terminal of said lamp, and means engaging the lamp bulb and holding the lamp in opposition to the action of said spring pressed contact member in a position with its terminals respectively in engagement with the spring pressed contact and



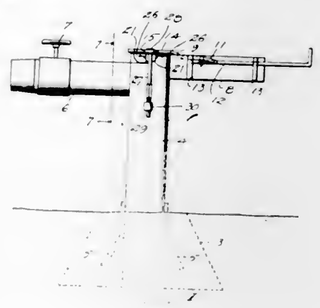
the seat of said hollow contact member, substantially as described.

1,345,213. CONSTRUCTION OF SHIPS. GIUSEPPE VITULLI MONTARULI, Rome, Italy. Filed June 4, 1919. Serial No. 301,619. 3 Claims. (Cl. 114—56.)



1. A ship having a plurality of transverse frames, the frames throughout the waist of the ship being in the shape of a plane curve interrupted at points by straight lines, and the end portions having similar frames with straight lines at the sides of gradually increasing length.

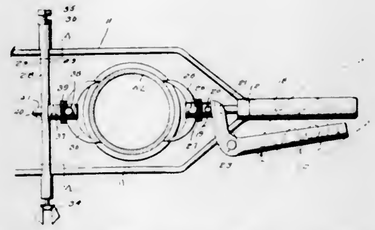
1,345,214. FIRE-EXTINGUISHER AND GAS-WELL CAPPER. AMMON W. MOORE, McKeesport, Pa. Filed Mar. 19, 1920. Serial No. 367,222. 5 Claims. (Cl. 166—15.)



1. A device of the character set forth comprising a housing associated with a well, outlet means for said housing,

said housing having an opening in its upper end, a lateral bracket formed on said housing, a closure element pivoted to said lateral bracket, and means connected to the closure element for moving the same into and out of the open end of the housing.

1,345,215. CARBON-SCRAPER FOR PISTON-RING GROOVES. OTTO A. MULLER, Duncan, Okla. Filed Aug. 25, 1919. Serial No. 319,595. 10 Claims. (Cl. 83—64.)



1. A device for the purpose set forth consisting of an open supporting frame, oppositely arranged holders adjustable in said frame and within said opening, tools carried by said holders and having edges adapted to scrape the walls of the grooves of a piston held within said openings substantially as described

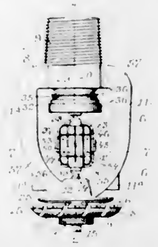
---

1,345,216. NECKTIE-CLASP. WALTER M. NARBETT, Richmond, Calif. Filed Feb. 8, 1918. Serial No. 216,042. Renewed Mar. 18, 1920. Serial No. 366,999. 1 Claim. (Cl. 24—81.)



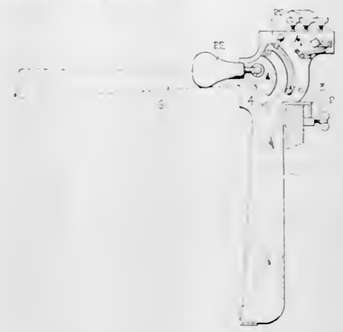
A tie clasp including an elongated bar, ears formed integral with the bar, and jaws pivoted to said ears and having one of their ends provided with inwardly extending teeth, said jaws being located at the ends of the bar for engaging opposite sides of a tie and at the center of the bar for engaging a shirt.

1,345,217. AUTOMATIC SPRINKLER. ROBERT WILKINSON NEWTON, Providence, R. I. Filed Sept. 26, 1919. Serial No. 326,441. 5 Claims. (Cl. 169—39.)



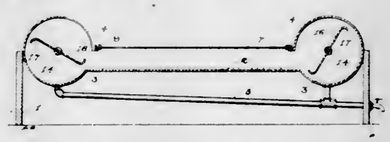
1. In an automatic sprinkler, a valve supporting and releasing device consisting of a shoe, a plate over the shoe, hollow thrust rods in the shoe and held in place by the plate, an expansible material in the hollow thrust rods, and fusible means for securing the plate to the shoe.

1,345,218. AUTO BLOCK SIGNAL. EDWARD NICHOLAS, Kokomo, Ind. Filed June 12, 1919. Serial No. 303,572. 4 Claims. (Cl. 40—67.)



1. An automatic block signal for automobiles to designate the movement of a car, consisting of a casing, a series of semaphores pivotally mounted therein and bearing indicating words thereon, a weighted member connected to each semaphore, and means for releasing the weighted member to permit the weighted portion to throw the semaphore to a displayed position, and a lever pivoted within the casing and adapted to normally return the semaphores within the casing.

1,345,219. ETCHING-MACHINE. WILLIAM F. NICHOLAS, Chicago, Ill. Filed Jan. 7, 1919. Serial No. 269,975. 7 Claims. (Cl. 41—9.)

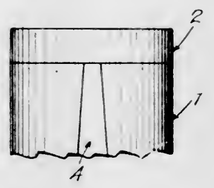


1. An etching apparatus having a plate, wells joined to opposite ends of the said plate and in communication with the upper surface thereof, and paddles movable in the wells.

1,345,220. PROCESS OF TREATING WASTE GASES OR VAPORS FROM SODA-CELLULOSE FACTORIES. ALBERT ELIAS NIELSEN, Chicago, Ill. Filed Jan. 13, 1919. Serial No. 270,987. 10 Claims. (Cl. 23—13.)

1. The process, which comprises reacting upon a mass containing free lime with the waste gas from the soda cellulose process, thereby forming compounds of calcium containing carbon and compounds of calcium containing sulfur and absorbing organic compounds of calcium.

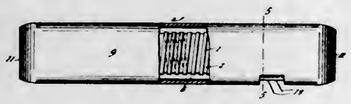
1,345,221. PISTON. ALBERT NITKA, Milwaukee, Wis. Filed Apr. 12, 1919. Serial No. 289,590. 6 Claims. (Cl. 74—108.)



1. A device of the class described comprising a piston having a head and a skirt, the head being expansible and

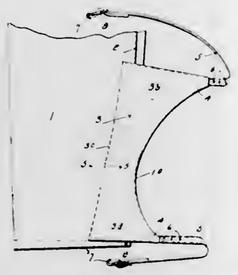
the skirt being split longitudinally substantially throughout its length, a wedge member disposed between the walls of the skirt split and movable to increase the diameter of the skirt and expand the head, and packing means carried by the head.

1,345,222. ELECTRICAL HEATING AND COOKING APPARATUS. CORNELIUS GEORGE NOBBS and WALTER WILLIAM NOBBS, London, England. Filed Dec. 26, 1918. Serial No. 268,310. 4 Claims. (Cl. 219—41.)



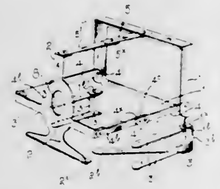
1. An electric heating device of the immersion type comprising in combination a flat strip of insulating material, a conductor wound thereon, insulating strips in contact with either surface of said conductor, a metal sheath open at the longitudinal sides extending above and below over the whole breadth of the conductor and a protecting cover inclosing the whole and pressed into intimate contact with said sheath, the said protecting cover being in direct contact with the liquid to be heated.

1,345,223. GARMENT. AUGUST NOGAR, Reading, Pa. Filed Mar. 11, 1919. Serial No. 282,056. 1 Claim. (Cl. 2—122.)



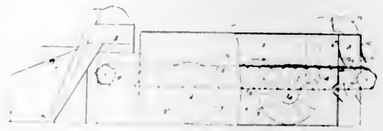
In a garment, a leg member, a flap having two relatively long edges and two relatively short edges, the short edges converging toward each other, one of the long edges being ogee and secured to the leg member, the other long edge of the flap being arcuate and free from the leg member and straps attached to the flap at the ends of the arcuate edge thereof.

1,345,224. COLLAPSIBLE LENSLESS FINDER FOR FOLDING CAMERAS. ARTHUR DAVID NORTHRUP, Rochester, N. Y. Filed June 20, 1919. Serial No. 305,453. 5 Claims. (Cl. 33—64.)



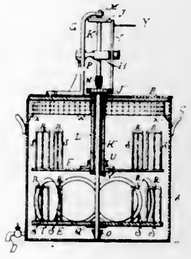
1. A collapsible instantaneous lensless finder for folding cameras, comprising a frame with an opening therein, and resilient means thereon for clamping the same upon the frame of a camera, an apertured plate having pivotal link connections with said frame and through the aperture of which plate an object to be photograhped is adapted to be seen through the frame.

1,345,225. DRIER. WILLIAM D. PALEN and HERMANN BOGATY, Philadelphia, Pa., assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 3, 1919. Serial No. 328,234. 1 Claim. (Cl. 34—12.)



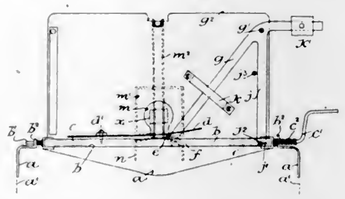
The combination in a drier, of a drying chamber; fans for circulating hot air in the chamber; an endless belt conveyer arranged longitudinally in respect to the drier and arranged to carry material through the drying chamber; a compartment at the delivery end of the apparatus through which passes the conveyer with the material; means for preventing air passing from the compartment directly to the heating chamber; and a pipe communicating with the upper portion of the compartment and with one side of the heating chamber some distance back of the compartment so that the fresh air drawn through the material on the conveyer will be preheated, while the material being discharged will be partially cooled.

1,345,226. DISH-WASHER. EZEKIEL N. PARIS, Shawnee, Okla. Filed Aug. 20, 1919. Serial No. 318,794. 2 Claims. (Cl. 141—9.)



2. The combination with a cylindrical dish-holding vessel, a vertical rotatable shaft, a dish-supporting disk thereupon, of a rotatable vertical sleeve thereabove also carrying a dish-supporting disk, and mechanism arranged to rotate it in an opposite direction to the shaft.

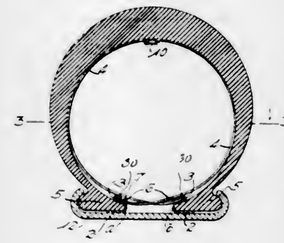
1,345,227. RAT-TRAP. BENJAMIN PARKER and WILLIAM FERRIOR WILLIAMS, Waroona, Western Australia, Australia. Filed July 13, 1918. Serial No. 244,767. 1 Claim. (Cl. 43—72.)



In a trap of the class specified, the combination of a foundation frame having an opening therein, a door mounted in the said opening to normally close the latter and having springs co-acting therewith to set up an automatic opening operation of the door when the latter is released, the door having projecting means at one side, a weighted lever mounted to swing relatively to the door and frame and provided with arms, one of which has a

lug to engage under the projection of the door and hold the latter closed against the tendency of the opening movement of the springs thereof, a counter-acting spring to retard rotation of the door when the latter is released, a yielding pressure plate mounted on the door and operative by the weight of the animal thereon, said pressure plate having a projection to bear upon the free end of the remaining arm of the lever, and a bait holding means disposed adjacent to the said pressure plate.

1,345,228. TIRE. GEORGE D. PEARSON, Montreal, Quebec, Canada. Filed Dec. 23, 1916, Serial No. 138,651. Renewed Dec. 10, 1919. Serial No. 343,814. 7 Claims. (Cl. 152—8.)



1. In a tire, the combination with a pair of annular carriers, of two series of bow-springs carried by the respective carriers and having their outer ends united in the circumferential line of the tire and having their opposite ends crossing the central plane of the tire at right angles to the axis thereof and the ends of one series being secured to one carrier and the ends of the other series to the other carrier.

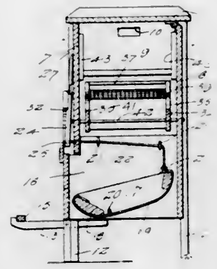
3. In a tire, the combination with a pair of laterally displaceable annular carriers, of two series of bow-springs carried by the respective carriers and united in the circumferential line of the tire, the springs of both series having keyhole slots in their ends attached to the carriers and the carriers having headed pins for engagement by the slotted springs.

6. In a tire the combination with a pair of laterally displaceable annular carriers, of two series of bow-springs removably carried by the respective carriers and a chain uniting the outer ends of the springs of the respective series, the said chain consisting of links the sides of which are of bar form and have the ends of the springs connected thereto, each spring to an individual link and the springs of one series with the links to which they are connected alternating with the springs and the links of the other series.

7. A resilient metallic lining for a tire comprising two series of bow springs, the springs of one series being located between the radial planes of the springs of the other series, and a chain uniting the outer ends of the springs, in the circumferential line of the tire.

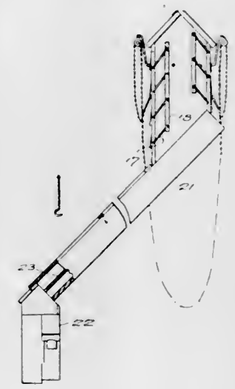
1,345,229. AUTOMATIC TRAP-NEST. ARVILLE H. PETIT, Huntington, W. Va. Filed Nov. 23, 1917. Serial No. 203,563. 1 Claim. (Cl. 119—49.)

A hen's nest including a housing having an entrance way, a door for closing said entrance way, an arm formed on said door and projecting beyond the same and pivoted to the housing laterally of the entrance way, a shoulder formed on the door at a point opposite from that of the arm, a nest pivoted in the housing in a plane below the entrance way, an inclined latch bar pivoted to the housing and engaging the shoulder for holding the door in an open position, and a flexible element connected to the latch bar and slidably connected to the housing in a plane



above the nest and connected to said nest at its rear end to support said nest in an inclined plane.

1,345,230. GRAIN CLEANER, SEPARATOR, AND DRIER. WILLARD A. PETTEYS, Wilcox, Nebr. Filed May 3, 1919. Serial No. 294,387. 3 Claims. (Cl. 34—37.)

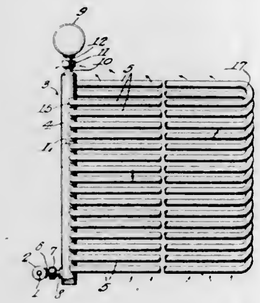


1. In a device of the character described, a receiving hood having a receiving opening therein, a plurality of inclined and staggeredly arranged baffles arranged in the hood beneath the opening therein, hinge rods arranged in the hood groups of ventilating shutters hingedly supported upon the rods in the opposite sides of the hood to control the passage of air therethrough, one hinge rod at each group being extended and directed angularly, operating means connected with the angular terminals of the rods, and means connecting the opposite ends of the rods of each group whereby simultaneous adjustment of the several shutters of each group is affected.

1,345,231. STEAM-BOILER. JOHN PIERCE, Jr., South Norwalk, Conn., assignor of one-half to Dickinson S. Cummings, Stamford, Conn. Filed Feb. 13, 1920. Serial No. 358,513. 1 Claim. (Cl. 122—279.)

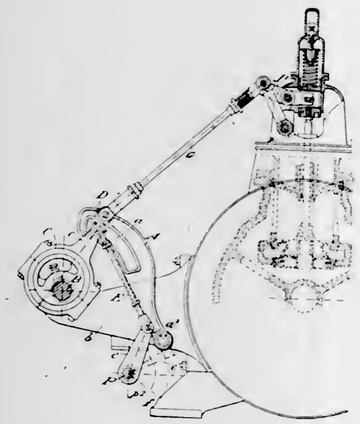
In a steam generator, a horizontally disposed water distributer head, a steam drum arranged above the distributer head and in parallel relation thereto, a plurality of parallel vertical headers communicating with the distributer head and steam drum, a plurality of horizontally disposed U-shaped circulating tubes communicating with each of the vertical headers, the planes through the legs of the U-shaped tubes being disposed at an oblique angle

to the horizontal and parallel to each other, one leg of each tube being secured to the header at a point between



the legs of the adjacent tube, so that the unvaporized products passing from the upper leg of each tube will fall and pass into the lower leg.

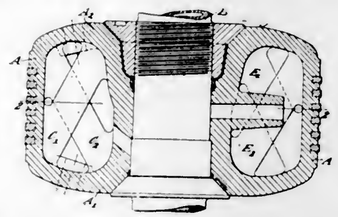
1,345,232. VALVE-GEAR FOR RECIPROCATING STEAM-ENGINES. HENRY PILLING, Chorlton-Cum-Hardy, England. Filed Jan. 29, 1917. Serial No. 145,208. 2 Claims. (Cl. 121—170.)



1. Means for varying the time during which a steam inlet valve of a reciprocating engine is open while maintaining a constant lead for the valve, comprising in combination a pivoted arm, a shaft on which a member moves in a circular path, a slot in said arm in the form of a circular arc struck from a center approximately on a point of said circular path, a block in said slot connected to said member and adapted to rock said pivoted arm, a connecting rod pivoted to said slotted arm and operatively connected to said valve and means for moving said block in said slot according to the load on the engine.

1,345,233. PISTON FOR GAS-ENGINES. HENRY PILLING, Chorlton-Cum-Hardy, England. Filed June 24, 1919. Serial No. 306,508. 3 Claims. (Cl. 123—176.)

3. A hollow water-cooled piston, comprising a pair of opposed working faces, an external wall and a boss connecting said faces, and a plurality of ribs connecting said boss and the external wall of the piston, some of said ribs extending between the juncture of said boss with one of said faces and said external wall adjacent one end of

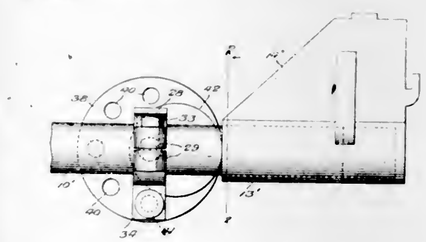


the latter, and others of said ribs extending between the juncture of said boss with the other face of the piston and the opposite end of said external wall.

1,345,234. STAINING OF LEATHER OR SKINS. MARIANO POTO, Paris, France, assignor to Anciens Etablissements A. Combe & Fils & Cie., Paris, France. Filed Mar. 25, 1916, Serial No. 86,808. Renewed Oct. 25, 1919. Serial No. 333,372. 6 Claims. (Cl. 149—7.)

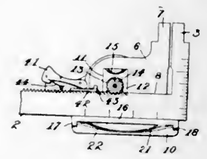
1. Process for staining leather or skins which process consists in first impregnating the material with a dyeing liquor, which gives an insoluble ground, then glazing the material and finally applying to it a topping which imparts a luster to the material.

1,345,235. BED-SPRING. HARRY E. POWELL, Anderson, Ind. Filed July 19, 1919. Serial No. 311,920. 2 Claims. (Cl. 5—67.)



1. In combination with the side rail of a bed and a longitudinally movable spring carrying bracket on the end thereof; of means carried by the said rail contacting with the bracket for limiting and adjusting the inward movement of the bracket on the rail, said means comprising a pivoted rotary member secured on the rail and an eccentrically mounted disk thereon, and means also carried by the rail and engaging with said disk for holding the same in contact with the bracket.

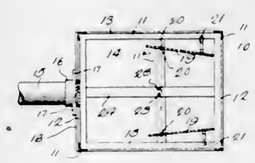
1,345,236. CALIPER. TIMOTHY B. POWERS, Brooklyn, N. Y., and WARREN FUHRMANN, Westfield, N. J. Filed Oct. 2, 1919. Serial No. 327,939. 20 Claims. (Cl. 33—147.)



1. In a caliper, the combination of a bar, having a rack on one edge and an arm at one end, a frame having

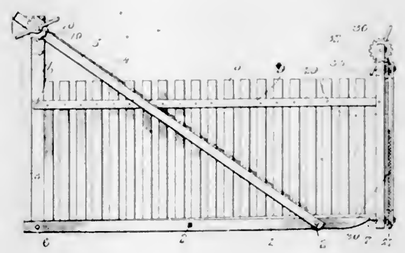
an aperture in which slides the bar, the frame having an opening extended inward from the edge adjacent the bar rack and open to both sides of the frame, a plate slidable in the said frame opening toward and from the bar, the plate having a circular socket extending inward from the edge adjacent the bar, a gear located in said plate socket and meshing with the bar rack, a spring between the plate and the bottom wall of the frame opening arranged to cause the plate to press the gear against the bar rack, and disks one rigidly secured to each face of the gear and which lap the margins of the frame opening whereby to retain the plate and gear in the frame.

1,345,237. PROPELLER. ROBERT C. PRATT, Calhoun, Okla. Filed Apr. 25, 1918. Serial No. 230,773. 3 Claims. (Cl. 115—31.)



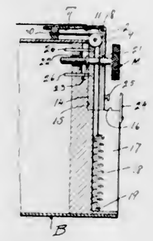
2. A device of the class described comprising a reciprocating rod, a box like frame comprising a pair of upper horizontally extending and spaced apart bars, and a pair of lower horizontally extending and spaced apart bars, vertical bars connecting the ends of said horizontal bars, means provided for connecting one end of said reciprocating rod to said frame, blades hingedly mounted within said frame so as to pivot between said horizontal bars, means carried by said frame for stopping said blades when in a closed position.

1,345,238. STOCK-LOADING CHUTE. JOHN R. RAPLEE, Shelbina, Mo. Filed June 10, 1919. Serial No. 303,034. 3 Claims. (Cl. 119—82.)



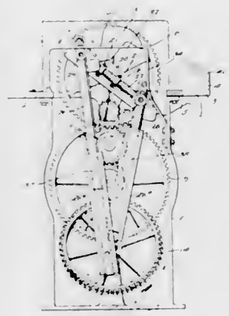
1. A portable stock-loading chute comprising runners, posts erected at the rear ends of the runners and rigidly connected therewith, upper and lower rails pivoted to said posts, a fixed continuous floor carried by the lower rails, means connected to the posts and to the lower rails near the front ends thereof for adjusting the rails and the floor pivotally in a vertical plane, and palings pivotally secured to and extending between the upper and lower rails, the front ends of the rails being free of the runners whereby an open unobstructed space is provided between the lower rails and the runners when the rails and the floor are raised.

1,345,239. STRINGED MUSICAL INSTRUMENT. ENRICO RE, Camden, N. J. Filed Apr. 21, 1919. Serial No. 291,468. 9 Claims. (Cl. 84—133.)



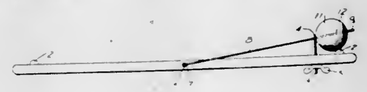
1. A stringed musical instrument comprising a body and a neck hingedly connected with the body and foldable into the body, a portion of wall of the body being removable to permit the neck to fold within the body.

1,345,240. CRIMPING-MACHINE. EARL T. REUTER and WILLARD A. SKINNER, Manchester, N. H. Filed Dec. 10, 1919. Serial No. 343,812. 9 Claims. (Cl. 12—64.)



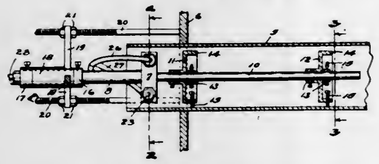
7. In a crimping machine, the combination with a support, and a pair of heads on the support, of a gear wheel, a runway secured to the gear wheel and extending across the center thereof, sliding blocks in the runway, a cylinder secured centrally in the runway, pistons connected to the blocks and located in the cylinder, a spring in the cylinder exerting pressure on the pistons, a second gear wheel located below the first mentioned gear wheel and disposed at an angle, crank pins on the last-mentioned gear wheel, pitmen connecting the blocks and the crank pins, said pitmen comprising telescoping sections, and form plates secured to the blocks and movable between the heads.

1,345,241. BALL-THROWING AND EXERCISING DEVICE. CHARLES H. REYNOLDS, Hermosa Beach, Calif. Filed Oct. 11, 1919. Serial No. 329,900. 4 Claims. (Cl. 46—69.)



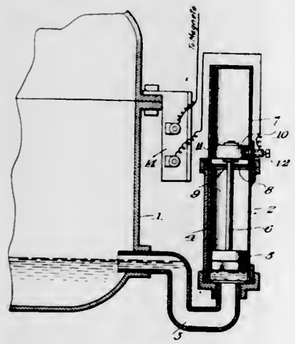
1. The combination of a stick, a ball holder including a stem, said holder pivotally connected to said stick to swing thereon and a ball carrier on the stem of the holder and removable therefrom.

1,345,242. OXYACETYLENE TORCH FOR CUTTING TUBES. JOY S. REYNOLDS, Seattle, Wash., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash. Original application filed Nov. 18, 1918, Serial No. 263,084. Divided and this application filed Aug. 11, 1919. Serial No. 316,886. 4 Claims. (Cl. 266—23.)



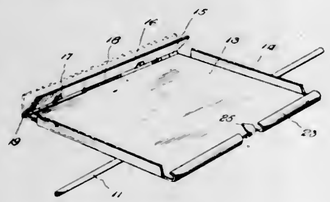
3. A torch of the class described, comprising a torch head provided with a plurality of burner tips, a fixed centrally arranged hollow shaft projecting from one side of said torch head, a fixed shaft projecting from the other side of said torch head in axial alinement with said first named shaft, and means on said last named shaft for supporting said torch for rotation within a tube whereby said tube may be cut off in a plane at right angles to its length.

1,345,243. GAGE. WALTER L. RIEDY, Houghton, Mich. Filed Aug. 5, 1919. Serial No. 315,409. 3 Claims. (Cl. 123—146.5.)



1. A device of the class described comprising a gage connected with the crank case of the motor, a float in the gage, means actuated by said float for grounding the ignition circuit of the motor and means for rendering the first mentioned means inoperative when the automobile is on an incline.

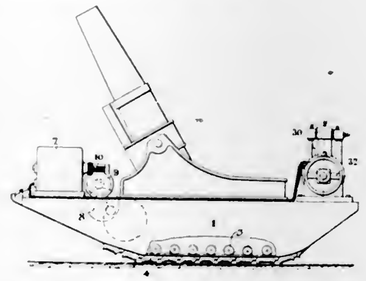
1,345,244. RACK FOR HOLDING COOKY-BOXES. ELMER RILEY and CLARENCE F. YUNCKER, Dodge City, Kans. Filed Apr. 25, 1919. Serial No. 292,594. 7 Claims. (Cl. 211—14.)



1. A display rack including a supporting frame, a rod secured to the frame, a holder carried by the rod and mounted for tilting movement with respect to the frame, means at one longitudinal edge of the holder for engagement with a display box, and a spring pressed clamping device pivotally mounted on the other longitudinal edge of the holder and adapted to frictionally engage the adjacent wall of the display box.

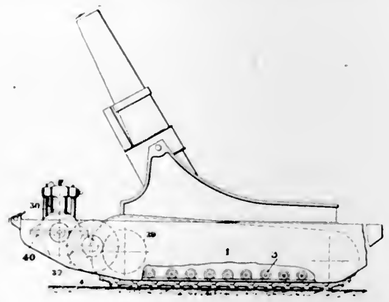
2. A display rack including a supporting frame, a rod mounted on the frame, a holder carried by the rod and pivotally mounted for tilting movement with respect to the frame, said holder having spaced upstanding side flanges for engagement with a display box, a locking member slidably mounted on the base of the holder and provided with a hook for engagement with one wall of the box, and a spring pressed clamping member pivotally connected with the rear edge of the holder for engagement with another wall of the box.

1,345,245. GUN-CARRIAGE. EMILE RIMAILHO, Paris, France, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Original application filed July 27, 1917, Serial No. 183,199. Divided and this application filed July 19, 1919. Serial No. 312,035. 1 Claim. (Cl. 89—40.)



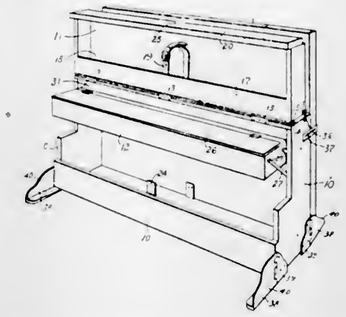
A gun-carriage, comprising a chassis having a longitudinal central opening forming the recoil space for a gun, front and rear chain wheels carried by the chassis, a chain on each side of the chassis from the rear wheel to the front wheel, rollers carried by the chassis and bearing on the chains, electric motors mounted on the rear of the chassis, gearing between each motor and a rear chain wheel, and a motor on the front of the chassis and controlling the said electric motors.

1,345,246. GUN-CARRIAGE. EMILE RIMAILHO, Paris, France, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Original application filed July 27, 1917, Serial No. 183,199. Divided and this application filed July 19, 1919. Serial No. 312,036. 2 Claims. (Cl. 89—40.)



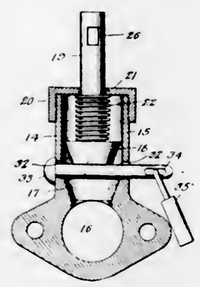
1. A gun-carriage, comprising a chassis having a longitudinal central opening forming the recoil space for a gun, front and rear chain wheels carried by the chassis, a chain on each side of the chassis from the rear wheel to the front wheel, rollers carried by the chassis and bearing on the chains, a swinging gun carriage on the chassis, a motor on the gun carriage, and means for controlling the gun carriage and imparting independent motion to the rear chain wheels from the motor.

1,345,247. COMBINATION TOOL-BOX AND SAW-HORSE. ORLANDO B. ROBBINS, Bridgeport, Conn. Filed Jan. 13, 1920. Serial No. 351,233. 4 Claims. (Cl. 206—16.)



4. A combination tool box and saw horse, comprising a box having a lid which may be raised to form a work bench, and having at the corners of its base a plurality of hinge members, said hinge members adapted to be closed to serve as metal corners for said box when said lid is in its closing position on said box and to be open to serve as brackets for said box when said lid is raised and in position to be used as a work bench, and one of said brackets carrying a lug which is adapted to coöperate with an adjustable angle iron carried by said box to hold to the box an article being worked upon.

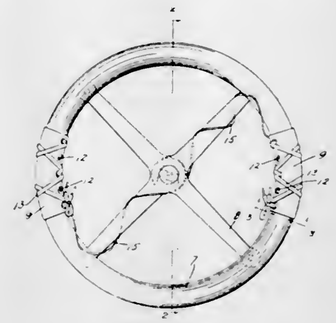
1,345,248. VALVE. MARION S. ROBY, Kenton, Ohio. Filed Feb. 21, 1920. Serial No. 360,453. 2 Claims. (Cl. 251—6.)



1. The combination with a hydrocarbon engine having a carbureter, of a valve located in communication with the fuel supply between the engine and the carbureter, said valve including a casing having oppositely located air inlets and a locking bolt adapted to be secured transversely of the casing in said inlets and between the valve and valve seat to hold the valve in open position and prevent suction of fuel into the engine cylinders.

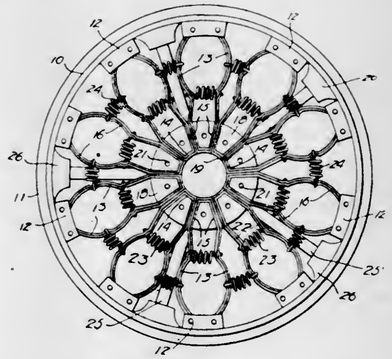
1,345,249. ELECTRIC HEATER FOR STEERING-WHEELS. EVEN J. ROHNE, Minneapolis, Minn. Filed Sept. 7, 1917. Serial No. 190,264. 1 Claim. (Cl. 219—46.)

A heating pad for steering devices comprising a flexible heating element, a pair of flexible insulating cover plates between which the heating element is placed, a flexible casing for the insulating plates, the longitudinal edge portions of which are extended outward of the insulating



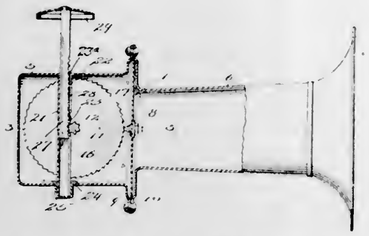
plates, eyelets connecting both the inner and outer longitudinally extended edge portions of the casing, and a lace adapted to be inserted through the eyelets for connecting the longitudinal edges of the casing.

1,345,250. SPRING-WHEEL. THOMAS ROZANSKOVICH, Galveston, Tex. Filed Dec. 16, 1919. Serial No. 345,195. 3 Claims. (Cl. 152—28.)



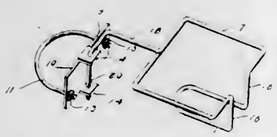
3. A spring wheel comprising a rim carrying a cushion tire, a plurality of plates secured upon the inner periphery of said rim and arranged in spaced relation in pairs, a plurality of spring members constituting spokes and each having its intermediate portion bent into substantially trapezoidal shape with sides of such inclination that the inner ends of the spokes will form a ring-like structure constituting the hub portion of the wheel and engageable between the fixed and removable flanges of the hub, wooden blocks disposed within the inner ends of said spring members and provided with holes for the passage of hub securing bolts, each of said spring spokes including arms terminating in eyes pivoted between said pairs of plates, the arms of each spring being somewhat converged adjacent each block, an auxiliary spring connecting the arms of each spring spoke at said converging points, and other auxiliary springs connecting the arms of adjacent spring spokes adjacent the outer portions thereof, and means for preventing circumferential distortion comprising socket members secured upon the inner periphery of said rim, and a plurality of radially extending arms slidably engaged within said socket members and adapted to be secured to the drum brake of the hub.

1,345,251. WARNING-SIGNAL. ERNEST RUBES, Brooklyn, N. Y. Filed Oct. 3, 1916, Serial No. 123,522. Renewed Mar. 22, 1920. Serial No. 367,887. 2 Claims. (Cl. 116—144.)



1. A warning signal of the class specified comprising a casing, a resonant diaphragm held in the casing, a shaft extending across the interior of the casing in rear of the diaphragm and embodying an elongated pinion as a part of the structure thereof, said pinion extending from about the center of the shaft outwardly to one end, a toothed diaphragm actuator mounted to loosely rotate on the shaft, a reciprocatory rack bar solid from end to end and mounted in a guide sleeve, the rack bar being held in continual engagement with the pinion for rotating the latter in a direction to impart a rotation to the actuator to vibrate the diaphragm, the pinion by a reverse movement being the sole means in direct engagement with the rack bar for restoring the latter to normal position, a ratchet wheel fixed to the shaft at a distance from the inner end of the pinion, a pawl secured to the actuator and continually held in engagement with the ratchet wheel, and a spring loosely coiled around the outer extremity of the pinion and having one end secured to the pinion and the opposite end to and adjacent portion of the casing at a distance from the pinion to impart a reverse rotation to the pinion and shaft subsequent to actuation of the shaft for vibrating the diaphragm, the spring coiling upon the pinion when the rack bar is depressed.

1,345,252. SPUTUM-CUP HOLDER. ABRAHAM Z. RUBIN, Denver, Colo. Filed Dec. 6, 1919. Serial No. 342,906. 2 Claims. (Cl. 248—20.)

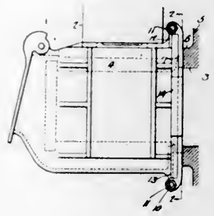


2. A holder of the character described, comprising a bearing bracket, and an article engaging element formed of a strand of wire bent intermediate its length to provide an article support having arms extending therefrom and carried upwardly in spaced relation, the arms being then bent to provide an open frame for extending about an article resting upon said support, one end portion of the strand being bent to provide a shank extending from the frame and terminating in a pivot pin engaging the bearing bracket to pivotally connect the article engaging element with the bracket.

1,345,253. METHOD OF PRESERVING WOOD. MAX RÜPING, Berlin, Germany. Filed Dec. 14, 1916. Serial No. 136,947. 2 Claims. (Cl. 99—12.)

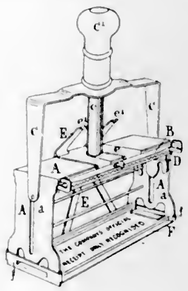
1. A method of preserving wood which consists in placing the wood in a closed retort, subjecting the same to the action of heated air under pressure, then injecting heated creosote oil into said retort at a higher pressure until the wood is submerged therein, maintaining the wood in said heated oil bath under high pressure until the walls of the pores and cells of the wood are coated with creosote oil, then drawing off the excess oil, and finally relieving the pressure, thus allowing the air imprisoned in the wood to escape.

1,345,254. WEAR-PLATE FOR DRIVING-AXLE BOXES FOR LOCOMOTIVES. KENNETH RUSHTON, Philadelphia, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 2, 1919. Serial No. 269,249. 3 Claims. (Cl. 64—25.)



2. A wear plate adapted to be located between an axle box and the hub of a wheel, said plate having an opening for the passage of an axle and having upper and lower lugs arranged to extend laterally over and under the box; and lips at each side of the plate and arranged to extend on each side of the box, said plate having transverse bolts by which the two sections are held together.

1,345,255. SELF-INKING PRINTING-STAMP. GEORGE ARTHUR WILLIAM RUSHWORTH, Willington, Manchester, England. Filed Dec. 9, 1919. Serial No. 343,634. 3 Claims. (Cl. 101—334.)



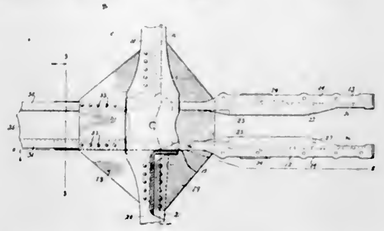
1. In a turn-over self-inking printing stamp the combination with a transparent indicating plate of means operated by the depression of the printing surface to cause the said indicator to rotate about the frame of the stamp out of the path of the printing surface.

1,345,256. ELASTIC VEHICLE-TIRE. WILLIAM E. RUSSELL, Akron, Ohio. Filed Aug. 18, 1919. Serial No. 318,140. 3 Claims. (Cl. 152—14.)



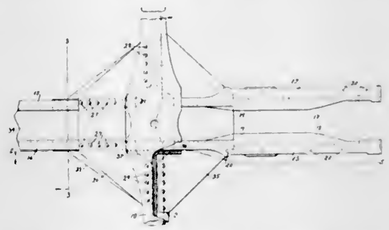
1. The combination with a conventional pneumatic tire shoe of a plurality of flat patches secured at intervals around said shoe whereby the margins of said patches are free to turn up for preventing skidding.

1,345,257. SUBSILL AND DRAFT-ARM. WILLIAM M. RYAN, Chicago, Ill., assignor to The Ryan Car Company, a Corporation of Maine. Filed Sept. 16, 1919. Serial No. 324,197. 3 Claims. (Cl. 105—420.)



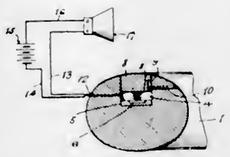
1. In car reinforcing means, in combination, draft arms extending through and projecting beyond the bolsters, sub-sills connecting with the inwardly projecting portions of the draft arms, gusset plates connecting said sub-sills and secured to the upper flanges of the bolsters, other gusset plates connecting the draft arms and secured to the lower flanges of the bolsters.

1,345,258. CAR-UNDERFRAMING. WILLIAM M. RYAN, Chicago, Ill., assignor to The Ryan Car Company, a Corporation of Maine. Filed Dec. 29, 1919. Serial No. 347,984. 7 Claims. (Cl. 105—414.)



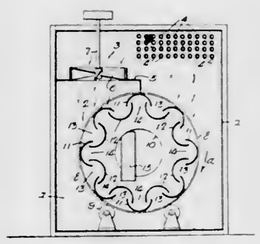
1. In an underframe for railway cars, in combination, a pair of body bolsters, channel shaped sub sills extending between the bolsters, channel shaped draft arms of less width than said sills extending through the bolsters and nesting with and connected to the sills, portions of the lower flanges of the sills being upwardly inclined whereby the width of the sills at the ends is reduced, and a gusset plate secured to said inclined portions of the sills and to the bolster.

1,345,259. AUTOMOBILE-SIGNAL. JAMES R. SAURAGE, Baton Rouge, La. Filed Dec. 6, 1918. Serial No. 265,530. 1 Claim. (Cl. 200—59.)



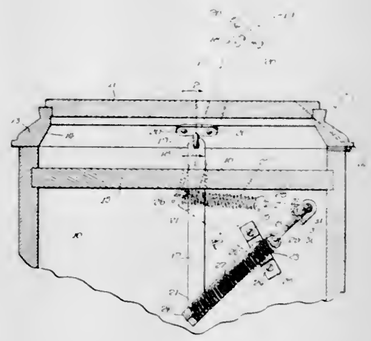
A circuit closer comprising an annular member having an annular groove, a metallic band forming a stationary contact secured in said groove and disposed against the inner wall thereof and said band having spaced recesses therein, insulating blocks secured in said recesses and having pockets, a movable contact band located in the groove and having slots in one side wall thereof, pins secured to the annular member and extending into the slots for limiting the inward and outward movement of said movable contact band, springs seated in said pockets and bearing against the movable contact band, and projections formed on the movable contact band and adapted to engage the stationary contact band on the inward movement of said movable contact band.

1,345,260. ROTARY DRIER. WALTER M. SCHWARTZ, Philadelphia, Pa., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1920. Serial No. 353,241. 3 Claims. (Cl. 34—6.)



2. The combination in a drier, of a drying chamber; means for circulating air therein; a cylinder having ends and two series of longitudinal blades, one series being located within the other; means for supplying the cylinder with material to be dried, the blades of the outer series having their ends projecting inwardly and the blades of the inner series having their blades projecting outwardly and into the pockets of the outer series so that, as the cylinder is rotated, the material will flow from the blades of one set to those of the other set, as the air circulates in the spaces between the blades.

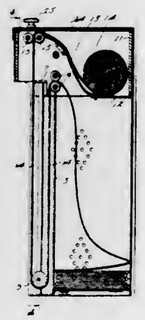
1,345,261. COUNTERBALANCE CONSTRUCTION FOR HINGED COVERS. DAVID W. SELLEK, Chicago, Ill. Filed Feb. 21, 1920. Serial No. 360,564. 4 Claims. (Cl. 217—60.)



1. In a cover-counterbalancing construction of the character described, the combination of a hook-member adapted to be secured to the hinged cover, a link pivoted on said hook, a lever adapted to be fulcrumed on the body of the cabinet with which the cover is associated

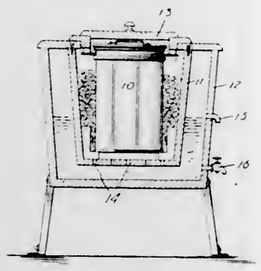
and pivotally connected to said link, a bracket designed to be pivotally mounted on the cabinet, a spring connected to said lever and bracket, the construction and arrangement of said elements causing the spring to pass the line of pivot centers of said lever and bracket near the closed position of the cover, whereby the spring may counterbalance the cover and may also hold it closed, substantially as described.

1,345,262. TOWEL-CABINET. EDWARD JAMES SHAUGHNESSY, Brooklyn, N. Y. Filed Jan. 14, 1920. Serial No. 351,444. 6 Claims. (Cl. 45—32.)



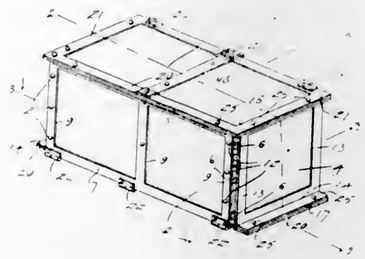
4. A towel cabinet, having a towel space at the front thereof, a pair of vertical rods in the towel space, a horizontal roller, a rod supporting the horizontal roller, a rod supporting the horizontal roller, eyes on the ends of the last-mentioned rod movable on the first-mentioned rods, and two pairs of friction rolls located adjacent the upper portion of said towel space, and between said pairs of friction rolls two runs of a towel are adapted to be respectively located when said towel is positioned around the first-mentioned roller and held taut by the weight of said roller.

1,345,263. BEVERAGE-MIXER. SAMUEL CHARLES SHERMAN, Anacortes, Wash. Filed Oct. 14, 1919. Serial No. 330,622. 1 Claim. (Cl. 217—5.)
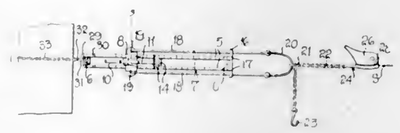


An apparatus for the purpose indicated having an inner can or receptacle for milk or the like and a housing inclosing said can or receptacle and consisting of concentrically disposed inner and outer tanks provided with a common cap or cover and adapted respectively to contain a freezing mixture and the drainage therefrom, the cap or cover having an exterior or peripheral fixed member covering the outer tank and provided with a central opening giving access to the inner tank, an annular section fitted in the opening of the permanent section to close the top of the inner tank and having a depending restraining support for said can or receptacle and also provided with a central opening of a diameter exceeding that of said can or receptacle, and an inner or central removable lid closing the opening in the annular section and removable independently thereof to give access to the contents of the can or receptacle.

1,345,264. COLLAPSIBLE SHIPPING BOX OR CRATE. HENRY KELLY SHIRLEY, Marianna, Fla.; Mrs. Mattie Shirley administratrix of said Henry Kelly Shirley, deceased. Filed July 19, 1919. Serial No. 311,922. 2 Claims. (Cl. 220—7.)



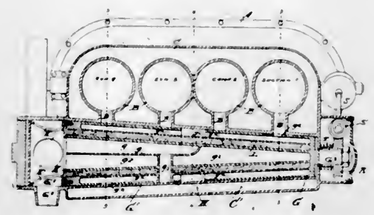
1. In a collapsible shipping crate, the combination with side and end pieces hingedly united, whereby the end pieces are adapted to collapse upon the inner faces of the side pieces, of rectangular frames having vertical braces secured to the outer faces of the side and end pieces, the end frames having upper and lower elongated transversely disposed braces angular in cross section, the frames of the sides pieces having elongated braces angular in cross section secured to the side pieces adjacent certain of their diagonally opposite longitudinal edge portions, top and bottom pieces hingedly united at diagonally opposite longitudinal corners of the crate, and adapted to overlie certain of the flanges of the longitudinal angle braces of the side pieces, means passing through the top and bottom pieces and the flanges of the longitudinal angle braces of the side pieces to hold the top and bottom pieces in place and the crate in rectangular formation, said crate having a transverse partition, and receptacles carried on the inner faces of the side pieces.

1,345,265. WIRE-STRETCHER. THOMAS E. SINGLETON, Savannah, Tenn. Filed Dec. 27, 1919. Serial No. 347,724. 1 Claim. (Cl. 254—72.)



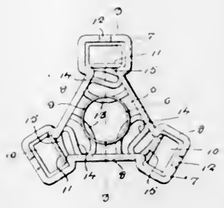
In a wire stretcher, spaced parallel rack bars having teeth on their opposite longitudinal edges, rectangular sleeves slidably engaged upon the rack bars, one of said sleeves being provided with a tubular boss and the other sleeve having a stud thereon engaged in said boss, a lever fulcrumed upon said boss, spring-held pawls pivotally mounted in the lever for operative engagement with the teeth on the corresponding edges of the rack bars, a guide plate fixed to one end of the rack bars, rods slidably engaged in the ends of said guide plate, each of said sleeves being provided with a laterally projecting ear to which the rods are connected at one of their ends, means on the other ends of said rods for connection to a fence wire, and means connected to the opposite ends of the rack bars for engagement with the fence post.

1,345,266. GAS-ENGINE. CHARLES P. SKUBLIN, Detroit, Mich., assignor to William A. Adams, Detroit, Mich. Filed Nov. 15, 1918. Serial No. 262,661. 3 Claims. (Cl. 123—59.)



1. The combination with an internal combustion engine comprising a plurality of cylinders, a tapering-valve chamber having channels leading to all of the cylinders, a tapering rotary valve in said valve chamber having an annular longitudinal channel with ports adapted to successively register with the channels leading to the respective cylinders for delivery of an explosive mixture thereto, the tapering valve being provided with a tapering central longitudinal passage having a division plate extending for a portion of its length to form compartments in said central passage, radial ports in both compartments of said central passage adapted to be brought into registration with the channels connected with the cylinders for discharge of the burnt gases therefrom, and means actuated by the crank-shaft of the engine for rotating said valve.

1,345,267. SNAP-FASTENER DEVICE. HENRIETTA B. SMITH, Charleston, S. C. Filed Nov. 28, 1919. Serial No. 340,997. 1 Claim. (Cl. 24—218.)

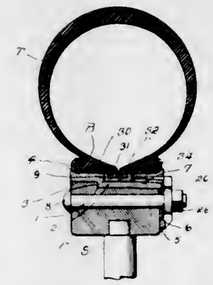


In a garment fastener, a socket member comprising a substantial triangular body plate having its corners formed with slotted rectangular extensions providing eyes, the eyes and the edges of the body being flanged inwardly, the wall provided by the central opening in the body having an annular flange extending in the same direction as the body flange and the last mentioned flange having spaced openings opposite the eyes, the inner walls of the eyes being also flanged in the same direction as the mentioned flanges, S-shaped springs between the flanges of the eyes and the body flange and having their outer curved arms received in the openings in the central flange, and the eyes having their opposite faces depressed, all as and for the purpose set forth.

1,345,268. UPHOLSTERING APPARATUS. LUTON BAXTER SMITH, High Point, N. C. Filed June 18, 1919. Serial No. 305,087. 5 Claims. (Cl. 155—43.)

1. Upholstering apparatus including a base, a flexible member forming a loop, a furniture engaging element supported by the loop, a furniture engaging element supported by one end of the flexible member, means for supporting the flexible member above the base, one end of said member being movable to simultaneously shift the furniture engaging elements relative to the base.

1,345,269. DEMOUNTABLE RIM. OSCAR SMITH, Springfield, Tenn. Filed June 30, 1919. Serial No. 307,496. 5 Claims. (Cl. 152—21.)



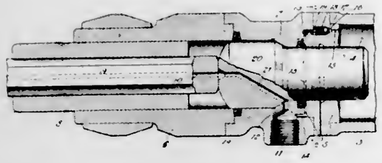
1. The combination with a rim having means for holding a tire on its outer face and an annular rib on its inner face between its edges; of a felly having in its outer face near one edge a shoulder facing toward the other edge, a wheel band surrounding said face and having an inside shoulder abutting that on the felly and an outside shoulder facing away from its inside shoulder toward the opposite edge of the band, a wedge ring surrounding the last-named portion of the band, the inner edge of said ring and said outside shoulder and the face of the band between them constituting a channel adapted to receive said rib, bolts through the felly, and buttons rotatably mounted on the bolts beneath their nuts and adapted in one position to hold the wedge ring in place or in another position to permit the wedge ring to be removed.

1,345,270. ROCK-DRILL. WILLIAM A. SMITH, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Original application filed Dec. 16, 1916, Serial No. 137,363. Divided and this application filed July 23, 1917. Serial No. 182,310. 3 Claims. (Cl. 121—17.)



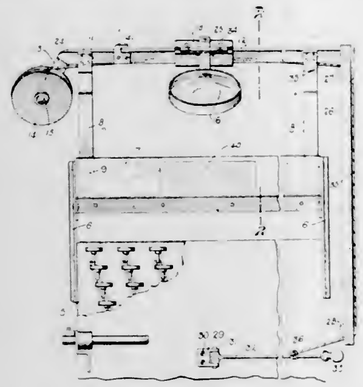
1. The combination with a fluid operated motor including a cylinder member and a piston, said piston having its rear portion hollow, and said cylinder member including a rear head member provided with a forward extension received in the hollow of the piston and provided with a socket, of a handle having a neck slidable in the socket, and means controlled by the handle for supplying motive fluid to the motor.

1,345,271. DRILLING APPARATUS. WILLIAM A. SMITH, Easton, Pa., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Apr. 6, 1918. Serial No. 227,003. 5 Claims. (Cl. 121—10.)



1. In drilling apparatus of the character set forth, the combination with a barrel and a head therefor, of a chuck, a tappet holding collar interposed between the head and chuck and having a cleansing fluid inlet, a tappet in the collar having a cleansing fluid port communicating with the inlet and delivering to the bore of a steel placed in the chuck, and a passageway in the head communicating with the barrel and the inlet for delivering fluid from the former to the latter.

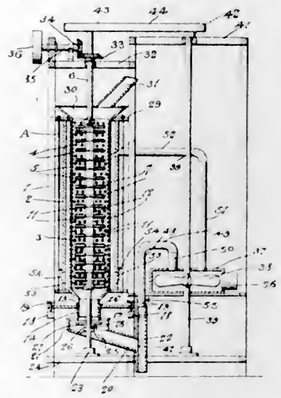
1,345,272. READING-GLASS HOLDER. JOHN THOMAS SPRADLING, White Plains, N. Y. Filed June 19, 1919. Serial No. 305,231. 2 Claims. (Cl. 88—39.)



1. A reading glass holder comprising a pair of spaced brackets, a track having one of its ends downwardly bent and supported by said brackets, a carriage substantially U-shaped in cross section adapted to receive said track between its extended members, rollers mounted in said carriage and adapted to engage opposite sides of the track in different planes, a reading glass carried by said carriage, a spring drum mounted on the downwardly bent end of said track, means for connecting the spring drum with the carriage, and means for moving the carriage against the action of the spring drum, substantially as described.

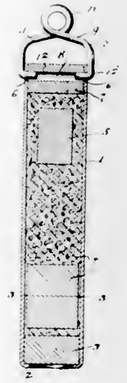
1,345,273. GRAIN-SCOURING MACHINE. EDWARD H. STAPP, Kevil, Ky., assignor of one-half to Ernest E. Stapp, Kevil, Ky. Filed June 13, 1916. Serial No. 103,480. 1 Claim. (Cl. 83—29.)

A grain scouring machine comprising a casing having closed upper and lower ends and provided with air inlets positioned adjacent its lower end, a perforated scouring cylinder positioned in the casing and extending through the upper and lower ends thereof, a chute positioned to receive scoured grain from the lower end of the cylinder, a vertically disposed open ended spout having the chute communicating therewith at a point intermediate the height of the spout, grain scourers positioned in said cylinder, a fan housing, a rotatable shaft extending vertically through the fan housing, a fan carried by the



shaft within the housing, a dust pipe extending from the casing adjacent its upper end and communicating with said fan housing, and a dust pipe leading from the upper end of said spout and communicating with the upper portion of said fan housing.

1,345,274. SASH-WEIGHT. CHARLES M. STEWART, Portsmouth, Ohio. Filed Mar. 27, 1920. Serial No. 369,270. 1 Claim. (Cl. 16—20.)

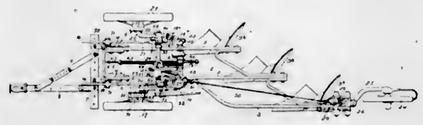


A sash weight comprising a casing having a filler therein and having opposed openings adjacent its upper end, a plug in the said upper end having an opening therethrough which registers with the openings in the casing, a spring bail having a central looped portion designed to receive the sash cord and having curved arms terminating in inturned lugs, the latter designed, when the arms are spread, to be arranged opposite the openings in the casing and when the arms are released to enter the said openings and the opening in the plug to secure the plug in the casing and to close the open upper end of the casing.

1,345,275. PLOW. LLOYD WELCOME STICKLEY, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Oct. 17, 1919. Serial No. 331,302. 12 Claims. (Cl. 97—55.)

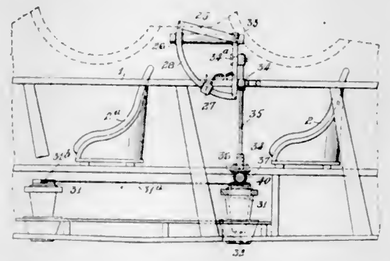
1. The combination with a wheeled plow frame, of a shaft mounted thereon, means coöperable with said shaft

and with a wheel of the wheeled frame to raise the latter, trip mechanism on said shaft, said trip mechanism comprising a lever, clutch devices between said lever and the



shaft, cam devices and means for operating said cam devices to control the opening and closing of the clutch devices.

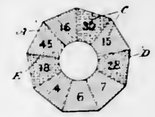
1,345,276. BOMB-DROPPING MECHANISM. ENOCH V. STODDARD, Rochester, N. Y. Filed June 21, 1919. Serial No. 305,867. 7 Claims. (Cl. 244—1.)



1. Means for determining the ground speed of an aeronautical vehicle comprising a viewing field rotatable about an upright axis and provided with two spaced lines extending transversely of the fore and aft axis of the vehicle combined with a sighting device mounted to swing about an upright axis and connected to the viewing field so that the latter and the sight rotate together.

3. The combination of a viewing field rotatable about an upright axis, with a sighting device rotatable about an upright axis and connected to the viewing field so that the latter and the sighting device turn together, said sighting device being also rotatable about a horizontal axis, and a bomb holding mechanism controlled by the swinging of the sighting device about its horizontal axis.

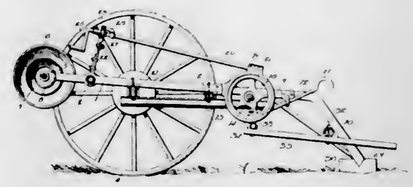
1,345,277. GAME APPARATUS. AMELIA STRASBURGER, New York, N. Y. Filed Jan. 4, 1918. Serial No. 210,357. 12 Claims. (Cl. 46—65.)



1. A game apparatus comprising a master game piece provided with a series of devices representing nonconsecutive numbers, and a plurality of playing pieces each provided with one or more devices, the arithmetical result of the devices on any playing piece being equal to a number represented on the game piece.

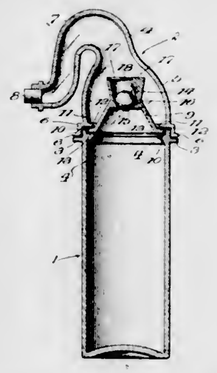
1,345,278. ATTACHMENT FOR MOTOR-VEHICLES. DAVID L. STROUD, Mabel, Minn. Filed Aug. 13, 1919. Serial No. 317,301. 3 Claims. (Cl. 74—106.)

1. An attachment of the character specified comprising a supporting frame having inclines at its forward end up which the rear axle of the motor vehicle is adapted to be drawn, means for engaging the axle of the vehicle, means for moving the engaging means to draw the axle up the incline, said means comprising a shaft journaled transversely of the frame and having radial arms at its ends, links connected with the arms and having hooks for en-



gaging the axle housing, a worm wheel on the shaft, a driving shaft journaled on the frame and having a worm for engaging the worm wheel, and means engaging the driving shaft for preventing reverse rotation thereof.

1,345,279. NON-REFILLABLE BOTTLE. EMILIO IBARRA Y SUBIS, Habana, Cuba. Filed Apr. 3, 1920. Serial No. 370,940. 1 Claim. (Cl. 215—62.)



In a non-refillable bottle, the combination of a body member having its upper portion formed with inner and outer circumferential flanges both of which are spaced from the upper edge thereof; a spout member curved laterally to one side of the axis of the body member and formed at its lower edge with inner and outer circumferential flanges which rest, respectively, on the upper edge of the body member and on the first-named outer flange, the second-named inner flange having a portion thereof overlapping and spaced from the first-named inner flange; a valve casing arranged within the spout member and having the form of superposed upper and lower frusto-conical parts provided at their junction with a valve seat; and a ball valve disposed within the upper part of said casing and normally occupying said seat, said upper casing part having a perforated top to permit the passage of liquid therethrough while preventing the displacement of the ball valve therefrom.

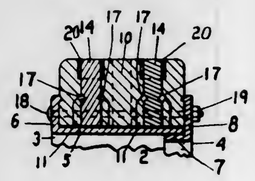
1,345,280. WICK-DOUBLER. HARTFORD SWEET, Brookfield, Ill. Filed Mar. 29, 1919. Serial No. 286,013. 8 Claims. (Cl. 128—269.)



6. An instrument for the purpose described, comprising an elongated body portion with means at one end to re-

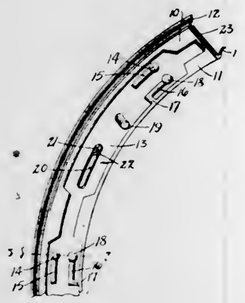
ceive and hold a short sleeve with a piece of tubular wicking threaded through it, and means on the body portion for doubling the wicking upon itself in housing relation to the short sleeve.

1,345,281. VEHICLE-WHEEL. HORACE H. TAYLOR, Oakland, Calif. Filed June 4, 1918. Serial No. 238,122. 5 Claims. (Cl. 152—2.)



1. A tire including an elastic annular body provided with annular inner grooves, and slots extending from said grooves through the periphery of the tire, blocks extending through said grooves and slots, said blocks being provided with notches and key rings extending around in said grooves and engaging said notches for holding said blocks in position.

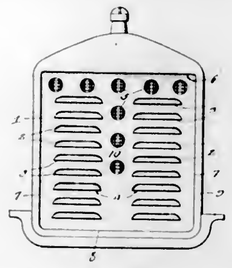
1,345,282. SEPARABLE TIRE-RIM. VICTOR R. TEAGUE, Lovington, N. Mex. Filed Sept. 13, 1918. Serial No. 253,961. 2 Claims. (Cl. 152—21.)



1. In a demountable rim, the combination with two sections abutting at their inner edges and having tire-engaging means along their outer edges, and a shield band secured around one section and overlapping the other; of a locking band within and movable circumferentially of said sections and having slots in pairs at intervals near its edges and one other slot for the valve stem, one slot of each pair having an extension opening out the edge of the band, pins in pairs in said sections for engagement with said pairs of slots, and an actuating lug on the inner side of this band near said valve stem-slot.

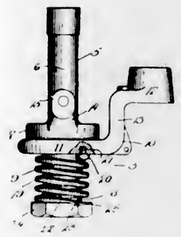
1,345,283. RADIATOR-PROTECTOR. GEORGE N. THOMAS, Mankato, Minn. Filed Apr. 15, 1918. Serial No. 228,694. 1 Claim. (Cl. 257—132.)

The combination with a radiator for an automobile, of a protector, comprising a plate arranged on the outer face of the radiator, said plate at the sides thereof having horizontally disposed slots, outwardly extending upwardly



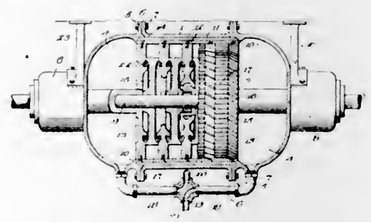
inclined lips over said slots, and said plate having openings adjacent to the top and in its center above the lower edge thereof, all as and for the purpose set forth.

1,345,284. SPINDLE-HOLDER. HUGH THOMAS, Chinchilla, Pa. Filed Jan. 15, 1919. Serial No. 271,329. 1 Claim. (Cl. 118—66.)



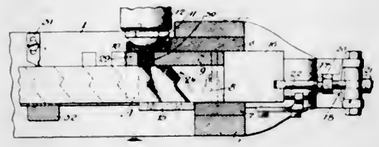
In a device of the class described, a threaded member, a support in which said member is mounted, a pin on said support, a nut mounted on and threaded to correspond with said member and provided with a recess, and a spiral spring mounted on said member between said support and said nut, one end of said spring being provided with a loop, or eye adapted to engage the pin connected with said support and the other end of said spring being provided with a finger adapted to engage the recess in said nut to lock the same against movement on said member in one direction.

1,345,285. STEAM-TURBINE. ANDREW J. THOMPSON, Alton, N. H. Filed Jan. 31, 1917, Serial No. 145,715. Renewed Dec. 6, 1919. Serial No. 343,113. 2 Claims. (Cl. 253—70.)



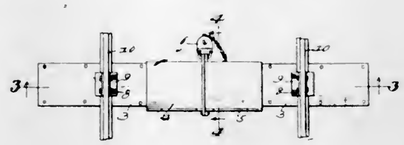
2. An elastic fluid turbine comprising an open ended cylindrical casing, castings closing the ends of said casing and acting in the capacity of steam chests, bearings carried by said castings respectively and alining with each other, a shaft journaled in said bearings, stationary abutments arranged concentrically of said shaft within said casing and spaced apart equal distances, turbine wheels arranged within the spaces respectively between said abutments and fixed upon said shaft, steam pipes connected with said steam chests respectively at the lower end thereof, a sources of supply, a two-way valve for connecting one of said steam pipes with said source of supply and the other of said pipes with the atmosphere and vice versa whereby the steam may be directed through the abutments and turbine wheels successively in either direction to rotate said shaft, a cylinder within said casing surrounding said abutments and wheels and connected to said abutments to hold the latter stationary, fasteners connecting said abutments and cylinder, a shell surrounding said cylinder between the latter and said casing and covering said fasteners, and shoulders formed on the inner walls of said castings adjacent to the inner ends of the latter and acting to hold said shell and cylinder in proper position within said casing.

1,345,286. TYPE-CASTING MACHINE. JOHN S. THOMPSON, Chicago, Ill. Filed Feb. 7, 1916. Serial No. 76,664. 7 Claims. (Cl. 199—1.)



7. A machine for casting in a plurality of castings a continuous strip of material for use in the printing art comprising a mold having a mold cavity for an individual casting and a jet cavity, the pet cavity being of less width than the mold cavity, a body piece and a jet ejector, the movement of the body piece in ejecting the casting being such as to leave a portion of the casting within the mold cavity and the movement of the jet ejector being sufficient to remove the jet completely from the jet cavity.

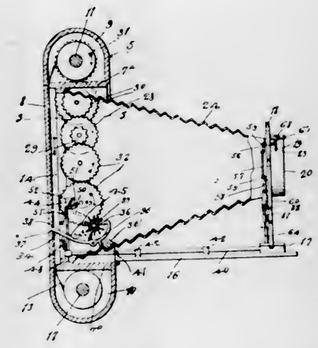
1,345,287. RAILROAD-TIE. WILLIAM TOMLINSON, St. Catherines, Ontario, Canada. Filed Nov. 9, 1918. Serial No. 261,815. 1 Claim. (Cl. 238—99.)



A tie of the character described comprising a pair of longitudinal channel members, lattice braces uniting the channel members at their lower flanges, plates uniting the channel members on their upper flanges, the two channels being in spaced relation to each other, the two plates having their facing ends in spaced relation to each other, a cover hingedly mounted to one channel member and covering the space between the plates, means for securing the cover in closed position, a filling material in the space between the channels and below the plates and cover, and means detachably mounted upon the plates for securing railroad rails thereto.

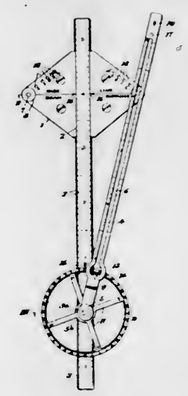
1,345,288. CAMERA. EDWIN W. TUCKER, North Prairie, Wis. Filed Apr. 25, 1917. Serial No. 164,406. 7 Claims. (Cl. 95—32.)

1. In a camera, a casing, film-receiving and feeding spools rotatably mounted therein, means normally tending to rotate the receiving spool to wind a film thereon, means to secure the film against movement in the casing, a shutter mechanism, means controlled by the shutter



mechanism to release the securing means, and means carried by the securing means to lock the first-mentioned means against operation when the film is secured against movement.

1,345,289. NAVIGATOR'S INSTRUMENT. ROBERT W. TUCKER, Weston, Mass. Filed July 30, 1919. Serial No. 314,331. 20 Claims. (Cl. 33—68.)

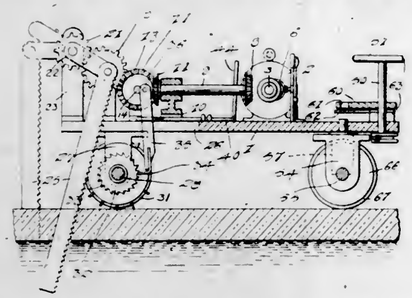


1. A device of the class set forth comprising a support, a pair of pivotally connected arms mounted on the support and bodily shiftable relatively thereto, said support being provided with means for guiding one of said arms to move endwise and means for guiding the other arm to move over a fixed point at one side of the path of movement of the endwisely movable arm.

1,345,290. OPERATING MECHANISM FOR ICE-CUTTING MACHINES. JOSEPH S. TURNS, Cleveland, Ohio. Filed Feb. 1, 1916. Serial No. 75,583. 1 Claim. (Cl. 74—54.)

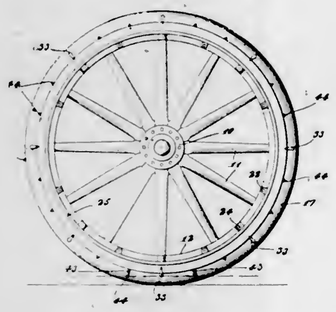
In propelling means, a rotatable gear, an axle mounted below the gear, a ratchet wheel secured on said axle, a bar eccentrically secured at its upper end to the gear, a control rod mounted for movement toward and away from the gear and provided with an eye slidably receiving said bar so as to guide the same during reciprocation

thereof, the lever serving to hold the bar in adjustment toward and away from the ratchet wheel, and a pawl



rigidly secured to said bar adjacent the lower end thereof and adapted to engage the ratchet wheel so as to impart intermittent rotation thereto when the gear is rotated.

1,345,291. NON-SKIDDING DEVICE FOR WHEELS. JOSEPH URBANEK, Chicago, Ill. Filed Dec. 13, 1918. Serial No. 266,574. 1 Claim. (Cl. 301—40.)



A device of the class described comprising a peripheral casing attached to the side of the felly of a wheel, said casing inclosing an annular chamber, a plurality of relatively large and small holes in the outer wall of said casing arranged in spaced apart relation, pointed stems adapted to move radially through said small holes, means for guiding said stems in a radial direction, additional stems adapted to move radially through said large holes, horizontal bars rigid to the outer ends of said last-named stems, fingers on the ends of said bars adapted to embrace the side walls of said casing, bars rigidly attached to said last-named stems at about the midpoint of the latter and at right angles thereto, vertical racks on he ends of said last-named bars, pinions rotatably mounted in the side walls of said casing and meshing with said racks, extensions on said first-named stems having racks thereon, said last-named racks also meshing with said pinions, pockets formed in the inner walls of said casing radially adjacent each of said last-named stems, means rigid to said pockets for guiding said last-named stems, coiled springs surrounding said stems between said last-named bars and the innermost points of said pockets, and means for attaching said casing to the felly of the wheel.

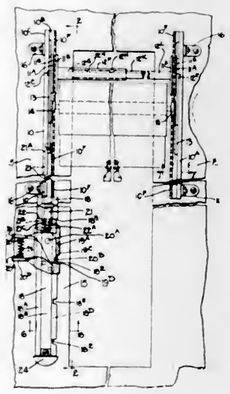
1,345,292. PULLEY, BRAKE, AND GRIP. ALPHONSE VANDERDONCK, Brooklyn, N. Y. Filed Mar. 6, 1917, Serial No. 152,611. Renewed Feb. 14, 1920. Serial No. 358,642. 1 Claim. (Cl. 24—134.)

In a device of the class described, a bracket provided with an arm having a gripping surface at one end, a pivoted pulley block thereupon having a pulley therein, said pulley block eccentrically mounted upon said arm so that a rope passing through said pulley block is retained by the gripping surface of said arm when pulled in one di-



rection unless said pulley block is moved clear of the same, and in combination therewith a weighted member having teeth at one end eccentrically and pivotally mounted within said arm also adapted to engage said rope.

1,345,293. WINDOW-SHADE CARRIER. ALBERT C. VANERKA, Chicago, Ill. Filed Oct. 30, 1919. Serial No. 335,783. 2 Claims. (Cl. 156—27.)

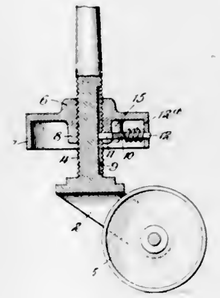


1. The combination in a window-shade carrier, of a pair of channeled guides or tracks, each having a rack in one flange thereof; a carriage mounted on each rack and comprising a plate slidable in said guide or track, a disk roller having circumferential teeth engaging said rack, a pair of circular guide plates riveted to each disk roller to embrace the rack teeth, and a segmental solid portion within the bore of said roller; a shaft extending between said carriages, said shaft comprising a pair of telescoping members, one of said members having depressions engaging within the keyway of the other and each of said members having a flattened end portion mounted within said bore of each roller; means on said carriages for supporting a shade-roller; and a shifting device for one of said carriages.

1,345,294. ADJUSTABLE CASTER. GEORGE F. VAN METER, Indianapolis, Ind. Filed Feb. 10, 1920. Serial No. 357,519. 4 Claims. (Cl. 16—164.)

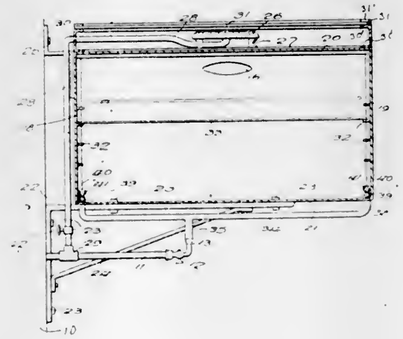
1. In a caster, the combination of a stem, threads arranged on the stem, a longitudinal slot provided in the stem, a bearing having an inner wall, threads on the inner wall that engage those of the stem, a guide-way in said wall that normally registers with the slot of the stem, an outer depending wall arranged on the bearing, a detent secured to the under side of the bearing, a pin

that rests in the guide-way of the bearing and extends at times into the slot of the stem, a finger piece formed at one end of the detent and a curved arm formed at the opposite end of the ratchet, a pin formed in rear of the first pin of the ratchet, a spring surrounding the pin, and apertures formed in the outer depending wall of the bear-



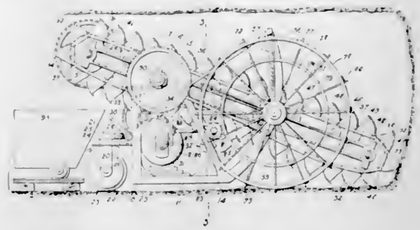
ing for receiving the last-named pin, an elongated slot that receives the finger piece of the detent, apertures formed in the outer depending portions of the bearing and a hand lever that enters one of the said apertures and bears on the lower round end of the detent for forcing said end inwardly.

1,345,295. COOK-STOVE ATTACHMENT FOR GAS-JETS. WILLIAM H. VINCENT, Park Side, South Australia, Australia. Filed Nov. 26, 1918. Serial No. 264,267. 1 Claim. (Cl. 126—39.)



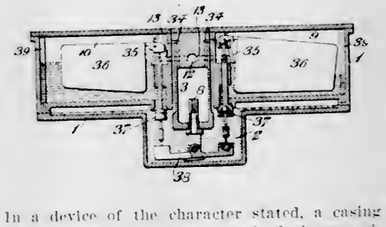
A cooking stove comprising a casing forming an oven accessible through its front, a substantially U shaped pipe forming a stem with branches passed through the bottom of the oven and extended laterally for a distance therein, burner tubes interiorly of the oven at opposite sides thereof and connected with the lateral extensions of said branches, the stem of said pipe having openings for introducing air and being adapted to detachably telescope over a gas jet burner and abut the flanged portion thereof, and a burner ring exteriorly of and upon the top of the oven and having a valved lead for connection with the pipe leading to gas jet.

1,345,296. EXCAVATOR. JAMES JOSEPH WARREN, Seattle, Wash. Filed July 3, 1919. Serial No. 308,420. 7 Claims. (Cl. 37—24.)



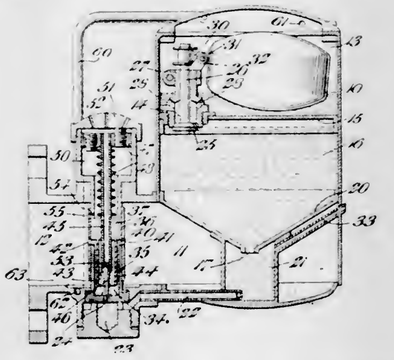
1. An excavator comprising a body having independent traction wheels, an endless chain of excavator buckets, means for driving said chain, and means driven from said chain, for independently actuating said traction wheels.

1,345,297. CARBURETER FOR INTERNAL-COMBUSTION ENGINES. ALFRED WEILAND, Philadelphia, Pa. Original application filed Feb. 17, 1917. Serial No. 149,185. Divided and this application filed Nov. 30, 1917. Serial No. 204,547. 3 Claims. (Cl. 261—41.)



1. In a device of the character stated, a casing providing a carbureting chamber, a main fuel reservoir and an air inlet to said chamber, a main fuel jet, a throttle valve provided with an outlet to said carbureting chamber, said outlet being cut off from the motor intake in closed position of said throttle, and open in open position of said throttle, an auxiliary fuel reservoir formed in said throttle and in communication with said outlet, and a supplemental air supply to said throttle reservoir.

1,345,298. CARBURETER. ALFRED WEILAND, New York, N. Y. Filed Jan. 27, 1919. Serial No. 273,343. 5 Claims. (Cl. 158—36.)



1. The combination of a reservoir, means forming a communication between said reservoir and a chamber

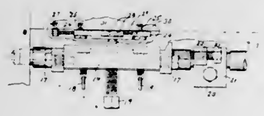
subject to the intake pressure of a motor of the explosive type, and means including a liquid seal to prevent flow by gravity from said reservoir when the motor intake pressure is relieved.

1,345,299. APPARATUS FOR DISLODGING DRILLING-TOOLS. HARRY G. WELSH, Ashland, Ky. Filed Feb. 26, 1919. Serial No. 279,407. 2 Claims. (Cl. 255—73.)



1. Apparatus for use in dislodging tools from wells including a column of pipe and a hollow spud secured to the end of said pipe, said spud having a semi-cylindrical blade-like cutting portion, said casing and said spud being adapted to surround said tool.

1,345,300. PLATE-CLAMP. JOSEPH WHITE, Piscataway township, N. J., assignor to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey. Filed Sept. 24, 1919. Serial No. 325,944. 15 Claims. (Cl. 272.)



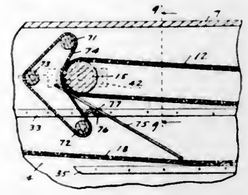


1. A sheet-supporting bed, devices for holding a flexible sheet thereon, comprising a plurality of separate clamps positioned along one of the edges of the sheet and adapted to grip said edge, and positively actuated means whereby one of said clamps may be moved longitudinally of said edge and independently of the remaining clamps, and while the clamp being moved is under strain to hold the sheet on said bed.

9. A sheet supporting bed, devices for holding a flexible sheet thereon, comprising a clamp adapted to grip the edge of the sheet, a screw adapted to exert pressure against the edge of the bed to move the clamp to stretch the sheet on the bed, a plate mounted on the edge of the bed and movable longitudinally thereof and adapted to contact with the end of the screw, anti-friction bearings between said plate and said bed, and means whereby the clamp may be moved along the edge of the bed while said screw is pressing against said plate to hold the sheet stretched.

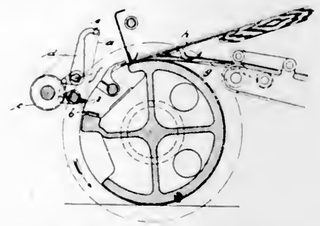
1,345,301. FRUIT-PEEL DRIER. WILLIAM I. WINCHESTER, Los Angeles, Calif., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif., a Corporation of California. Filed Apr. 21, 1919. Serial No. 291,733. 3 Claims. (Cl. 193—4.)

2. In a fruit peel drier, a drying chamber, rollers mounted in pairs horizontally transversely of the chamber, foraminous belts mounted upon the rollers, each alternate belt adapted to run in an opposite direction, said belts comprising endless rope members bound by transverse



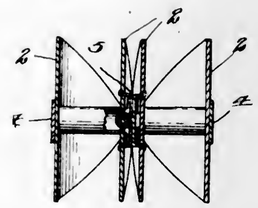
slats, secondary yielding belts mounted to operate against the tail end, and rollers carrying the main belts whereby material carried upon the main belts may be guided from any one belt to the belt next below.

1,345,302. PRINTING-MACHINE HAVING AN OSCILLATING IMPRESSION-CYLINDER. CARL WINKLER, Berne, Switzerland. Filed Feb. 7, 1920. Serial No. 356,936. 4 Claims. (Cl. 101—278.)



1. A printing machine comprising in combination, an oscillating impression cylinder, a feed table adapted to feed sheets to the summit of said impression cylinder, sheet delivery tongues underneath said feed table, tapes fastened at one end to said impression cylinder and at the other end to rolls and adapted to be wound on and off said rolls and impression cylinder alternately, guide rolls over which said tapes run, and means to alternately move said rolls toward and away from said impression cylinder, substantially as, and for the purpose, set forth.

1,345,303. TATTING-SHUTTLE. LEONORA WOLLE, Rockdale, Tex. Filed Mar. 30, 1920. Serial No. 369,915. 2 Claims. (Cl. 66—10.)

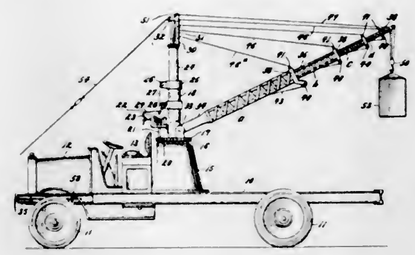


1. A tatting shuttle comprising tatting shuttle units detachably connected together in opposed side by side relation and each having a rotary bobbin.

1,345,304. DERRICK FOR VEHICLES. SAMUEL ZIED, Philadelphia, Pa. Filed Sept. 22, 1919. Serial No. 325,364. 7 Claims. (Cl. 212—55.)

1. In a derrick crane, the combination of a telescopic supporting post, means for extending said post longitudinally of its axis, guys or braces connected with the upper

end of said post and adjustable relative to the base thereof, a turntable about the lower section of the supporting post, means for moving said turntable when desired, a



boom hingedly connected to the turntable and including a series of rectangular telescoping sections, means for extending the boom longitudinally of its axis, and means for retracting the telescoping sections.

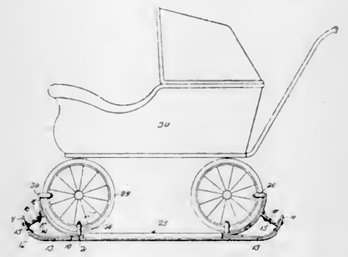
1,345,305. DEFLOCCULATING SOLID MATERIALS AND AGENTS THEREFOR. EDWARD GOODRICH ACHESON, New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,342. 6 Claims. (Cl. 252.)

1. As a new composition of matter, the product of reaction of hexamethylenetetramin upon the heat-conversion products of starchy materials.

1,345,306. METHOD OF DEFLOCCULATING SOLID SUBSTANCES. EDWARD GOODRICH ACHESON, New York, N. Y. Filed May 1, 1920. Serial No. 378,213. 3 Claims. (Cl. 252.)

2. Method of deflocculating graphite, consisting in subjecting the same, mixed with a deflocculating agent and in paste form, to a process of attrition, the total moisture content of the charge being less than 32% by weight.

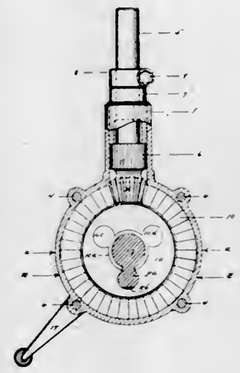
1,345,307. RUNNER. PAUL P. ALTLAND, Rochester, N. H. Filed Apr. 14, 1919. Serial No. 289,909. 2 Claims. (Cl. 280—13.)



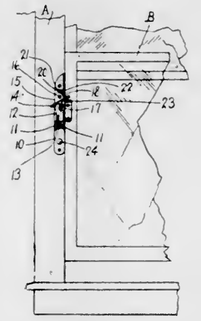
1. A runner attachment for vehicle wheels, comprising a runner proper having round ends, brackets on said ends, straps lapping each other and overlying the runner and adjustably secured thereto, bracket members on said straps coacting with the brackets of the runner, means for adjustably securing said brackets, and means on the straps for securing the same on the wheel of the vehicle.

1,345,308. STEERING-GEAR FOR MOTOR-VEHICLES. WILLIAM H. APPLEMAN, Belmont, N. Y. Filed Mar. 25, 1919. Serial No. 285,075. 13 Claims. (Cl. 74—79.)

1. The combination of a fixed annular bearing, a rotatable gear wheel peripherally journaled against the walls of said annular bearing, a central chamber in said gear wheel, a rocking member entering said chamber in said gear wheel, a flexible connection between said rocking member and said gear wheel at a point which when radially considered in relation to the center of said gear wheel, lies outside of the axis of said rocking member and means for rotating said gear wheel.



1,345,309. COMBINED WINDOW-SASH FASTENER AND BURGLAR-ALARM. EDA M. ARNDT, Buffalo, N. Y. Filed Nov. 29, 1919. Serial No. 341,357. 4 Claims. (Cl. 116—17.)

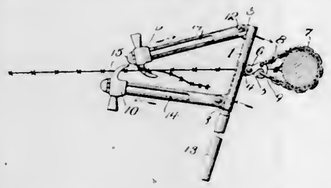


1. A combined sash fastener and burglar alarm comprising a spring actuated hammer mounted upon the window frame, a normal horizontally disposed trigger pivoted upon the frame and designed to engage and hold said hammer in the set position, said trigger being adapted to be actuated by the sash when the latter is lifted a slight distance to release the hammer and allow the latter to assume a substantially vertical position, and means for limiting the movement of said trigger upon release of the hammer and to maintain the trigger in sash obstructing position for the purpose specified.

1,345,310. WIRE-STRETCHER. JOHN H. BEST, Camp Cody, N. M. Filed Jan. 14, 1919. Serial No. 271,024. 1 Claim. (Cl. 254—76.)

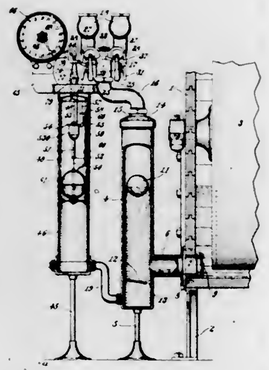
A wire stretcher comprising a cross head having a socket extending out through one end thereof, a handle extending into said socket, a pair of spaced laterally projecting apertured ears carried by the end portions of said cross head, a pair of arms pivoted to said apertured ears, claws carried by the forward ends of said arms and provided with slots extending out through their ends for receiv-

ing a wire, a laterally projecting apertured ear carried by the intermediate portion of said cross head and arranged



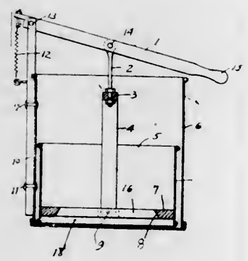
on the opposite side of the same from said pair of spaced laterally projecting apertured ears, and an anchoring device connected to said last named apertured ear.

1,345,311. WATER-CONTROLLING MECHANISM FOR LAUNDRY-TUBS. THEODORE BIRKENMAIER, St. Louis, Mo. Filed Dec. 4, 1916. Serial No. 135,002. 11 Claims. (Cl. 137—68.)



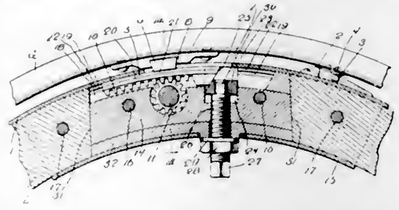
1. In an apparatus of the type described, a tub, a water supply connected therewith, mechanism controlled by the level of the water in the tub for automatically cutting off said supply at a predetermined level, and a water connection from said tub to said mechanism having means adapted to divert insoluble floating particles, liberated in the tub, and prevent the same from clogging said mechanism.

1,345,312. CLOTHES-WASHING MACHINE. WILLIAM F. BLAKE, Toledo, Ohio. Filed Aug. 18, 1919. Serial No. 318,237. 8 Claims. (Cl. 259—113.)



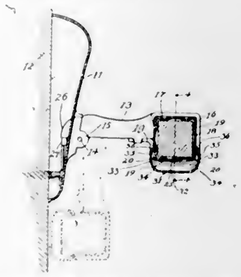
1. In a clothes washing machine, the combination of an outer round tub, a movable, hollow bucket plunger through which the clothing and water may pass, and means for operating the same vertically in the outer tub.

1,345,313. DEMOUNTABLE RIM. WADE W. BOWMAN, New York, N. Y. Filed June 9, 1917. Serial No. 173,726. 10 Claims. (Cl. 152—21.)



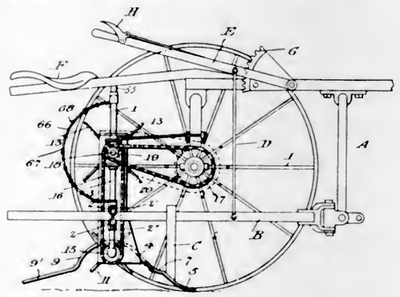
1. A wheel, a rim therefor adapted to be connected with the wheel by relative rotary movement between the wheel and the rim a member engaging between the wheel and the rim to rotate the rim relatively to the wheel, and a wedge for engaging said member to force said member in one direction.

1,345,314. BURIAL-CASKET HANDLE. SPRIGG BRENT, Covington, Ky. Filed Apr. 14, 1919. Serial No. 289,835. 5 Claims. (Cl. 16—103.)



5. In combination, a casket handle comprising a lug, arms pivoted thereto having loops at their outer ends, and a bar having longitudinally extending corners and longitudinally extending grooves, said bar and longitudinally extending corners and grooves received through said loops, and a relieving shield for the under side of said bar when the latter is viewed in laterally extending relation comprising a downwardly bulging portion, longitudinal edge portions provided with inturned curls at the respective sides of said shield presented toward each other and received in said grooves, the said bar extending above said longitudinal edge portions, and said shield provided with end tongues received between said loops and bar and with shoulders above said tongues coacting with said arms to position said shield.

1,345,315. PEANUT-HARVESTER. GORDON W. BYRD, Dallas, Tex. Filed May 3, 1919. Serial No. 294,544. 4 Claims. (Cl. 55—109.)



1. A peanut harvester comprising a frame, fenders carried at the sides of the frame, a share carried by the

fender, upwardly and rearwardly curved tines attached to the share, a shaft journaled for rotation below the tines and having teeth adapted to move through the spaces between the tines and means for discharging a blast of air across the upper ends of the tines.

1,345,316. LEAF-TURNING DEVICE. CIRO CIABOTTI, Milan, Italy. Filed June 27, 1919. Serial No. 307,187. 9 Claims. (Cl. 84—513.)



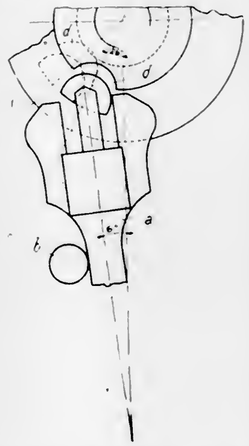
1. In an apparatus of the type described, a box, a pulley rotatably mounted within the box, means to rotate the pulley, a first arm, an apertured rubber ball supported from this first arm, means on the lever to grasp and compress the rubber ball, means to release the grip on the rubber ball, a second arm, an upstanding extension on this lever, and means on the pulley to operate first the first named arm and thereafter the second named arm to turn the leaf.

8. A leaf turning device comprising a casing, arms rotatably mounted therein, pneumatic means on one arm for gripping a leaf, adapted to turn the leaf a determined distance, means on the other arm for engaging the leaf adapted to complete the turning thereof, and means for rotating the arms.

1,345,317. COUNTER-BOARD AND PROCESS OF PRODUCING THE SAME. ALBERT L. CLAPP, Marblehead, Mass. Filed July 11, 1918. Serial No. 244,476. 4 Claims. (Cl. 92—21.)

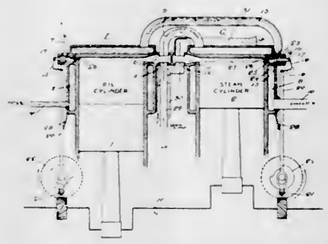
1. Counter board consisting of an intimate mixture of suitable fiber, calcium silicate and aluminum resinate, said silicate and resinate being precipitated and fixed upon said fibers.

1,345,318. DOUBLE-ROLLER LEVER-ESCAPEMENT. HENRI COLOMB, Tavannes, Switzerland. Filed Jan. 5, 1920. Serial No. 349,643. 2 Claims. (Cl. 58—121.)



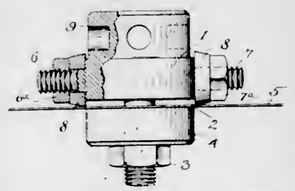
1. An escapement comprising a lever having hornless forks, a prong on the lever, a balance wheel including concentrically arranged large and small rollers the smaller of which is provided with a notch, and a roller pin mounted on the large roller so that the proportion existing on the one hand between the diameter of the circumference described by the farthermost point of the roller pin from the pivot center of the large roller and the diameter of the small roller on the other hand is reduced so that safe overswinging motion is secured in all positions of the balance wheel.

1,345,319. STEAM-ENGINE. DE WITT C. CONKLING, New York, N. Y. Filed Apr. 29, 1918. Serial No. 231,351. 4 Claims. (Cl. 60—14.)



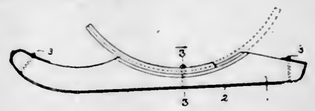
1. An engine comprising a cylinder, a piston movable in the cylinder, means to move the piston in one direction for compressing air within the cylinder to thereby generate heat within the cylinder, means whereby to generate steam within said cylinder by said heat for pressing against said piston to return the piston in the opposite direction, and the engine also comprising a second cylinder having connections with the first cylinder for maintaining the heat of the first cylinder.

1,345,320. CUTTING-TOOL. JOHN T. DIETZ, Cleveland, Ohio. Filed July 22, 1918. Serial No. 246,025. 4 Claims. (Cl. 164—82.)



1. A cutting tool comprising a body portion having an extension which is fixed with respect to the said body, arms fixedly carried by the body portion, cutters mounted upon said arms and in fixed position with respect to said body and said arms, a backing member having an edge of a diameter substantially the same as the distance between the cutters, said cutters coöperating with the said edge in a cutting operation, said backing member being mounted upon the said extension and adapted to receive the material to be cut, and means for moving the backing member upon the said extension during a cutting operation to press the said material against the cutters.

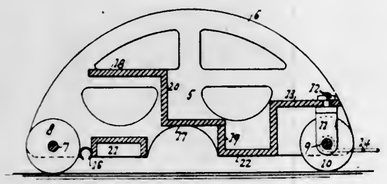
1,345,321. RUNNER FOR SIDE CARS. ELMER ENBERG, Aitkin, Minn. Filed Mar. 25, 1919. Serial No. 284,972. 1 Claim. (Cl. 280—13.)



A runner for wheels of side cars, etc., having the upper edge thereof provided with an elongated concaved recess, the longitudinal center of which is rearward of the longitudinal center of the runner, the bottom of the recess

having a central convexed ridge with portions intermediate the same and the opposite faces of the runner being concave, and means passing through said ridge for holding a channeled wheel against said ridge.

1,345,322. WAGON-ROCKER. ANDREW B. FOANS, New York, N. Y. Filed Mar. 26, 1919. Serial No. 285,281. 3 Claims. (Cl. 280—30.)

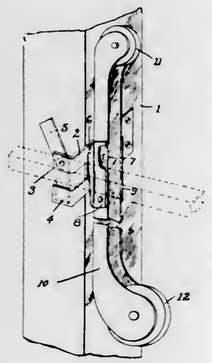


3. A wagon rocker comprising a pair of side frames each having a rocker, wheels carried by the frames for converting the rocker into a wagon by inverting the frames, a seat immovably secured between the frames, a pair of transverse foot rests fixed to the frames, and a pair of risers connecting the foot rests with the seat for supporting the back of the operator.

1,345,323. CATALYST AND PROCESS OF MAKING IT. JOSEPH C. W. FRAZER, Baltimore, Md., and CHARLES C. SCALIONE, Washington, D. C. Filed Feb. 4, 1919. Serial No. 275,007. 41 Claims. (Cl. 23—288.)

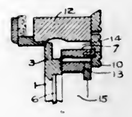
1. The process of producing active oxidizing catalysts which comprises precipitating a hydrated metal oxid in an extremely finely divided condition, washing free of soluble matter, collecting the precipitate, compressing the same into a coherent cake and drying the cake at a low temperature in a current of a free oxygen containing gas.

1,345,324. CLOTHESLINE-HOLDER. ROGER GIST, San Francisco, Calif., assignor of one-half to Benjamin F. Blackmon, San Francisco, Calif. Filed Dec. 3, 1918. Serial No. 265,158. 2 Claims. (Cl. 68—3.)



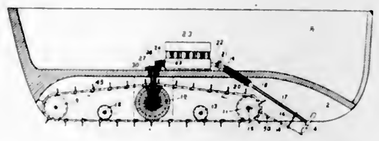
2. A clothes line holder comprising a wall plate, two lugs carried thereby, a pivoted flanged plate carried by the wall plate, an arm having pulleys at its ends pivotally mounted on the flanged plate and capable of swinging from a vertical position to a substantially horizontal position between the lugs.

1,345,325. WINDOW. JOHN G. LOPATA, Berwyn, Ill. Filed Aug. 30, 1919. Serial No. 320,827. 6 Claims. (Cl. 20—53.)



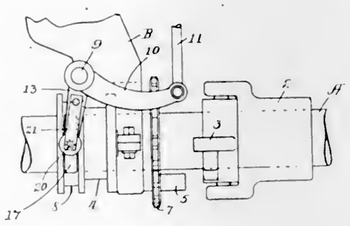
1. In combination with a window-frame, comprising vertical and horizontal members, an auxiliary member defining with one of said first named members a narrow opening, a sash containing a pane adapted to be introduced through said narrow opening, and means for securing said sash in said frame and permitting said sash to be arranged in functional position.

1,345,326. TRACTION-BOAT. JACK B. MACDONALD, Oakland, Calif. Filed Dec. 20, 1917. Serial No. 208,155. 3 Claims. (Cl. 115—1.)



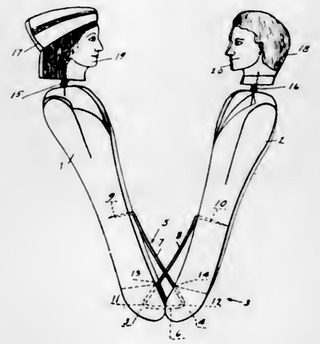
1. In combination with the hull of a boat, propelling means and traction means for conveying the boat over the river bottom, and automatic means for withdrawing the propellers of said propelling means out of the water above the bottom of said hull when the boat travels over the river bottom.

1,345,327. SHIFTER-SHOE FOR CLUTCHES. CHARLES E. MASON, Detroit, Mich., assignor to Grant Waldref, St. Paul, Minn. Filed July 15, 1918. Serial No. 245,078. 2 Claims. (Cl. 192—1.)



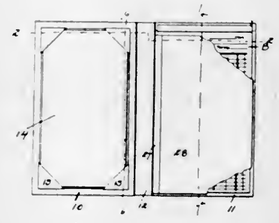
1. In combination with a drive shaft having driving and driven clutch members thereon, one of said clutch members being movable into and out of engagement with the other, a shifter shoe adapted to movably engage said movable clutch member to move the latter into clutch engaging and disengaging positions, a shifter arm movably mounted to actuate said shifter shoe, a pin slidingly inserted into said shifter arm and shoe whereby it may be readily lifted out of engagement with said parts and a spring on said arm arranged to hold said pin inserted in said parts and movable into a position permitting said pin to be withdrawn.

1,345,328. TOY. STEPHEN A. NEEDERMAN, Los Angeles, Calif. Filed July 25, 1919. Serial No. 313,324. 1 Claim. (Cl. 46—40.)



A toy comprising two sticks simulating human bodies, each stick having a member simulating a human head, the heads being fixed to the body members with coil springs so that they will bob about, the sticks being hingedly fixed together in rocking contact with each other by a properly bent spring whose outer ends are fixed one to each of the sticks.

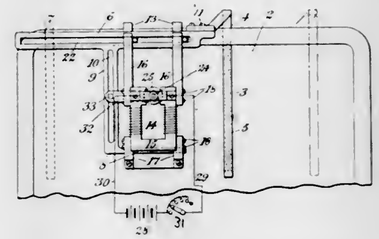
1,345,329. COVER FOR AUCTION-SALES RECORDS AND THE LIKE. SAMUEL D. PAGE, Des Moines, Iowa. Filed May 6, 1918, Serial No. 232,976. Renewed Apr. 3, 1920. Serial No. 371,140. 1 Claim. (Cl. 281—31.)



In a device of the class described, a cover comprising cover members having a flexible connection along one side edge, one of said cover members having on the inside a plurality of pockets, a binder comprising a pair of cover members having a flexible connection along one side edge, one of the binder cover members being received in said pockets and having adjacent to one end a transverse slot, a pad of sheets connected at one end, said pad having adjacent to said end a stiff back member provided with a tongue received in said slot, whereby the pad sheets are connected at one end, and the binder cover members are connected at one side edge to permit a binder cover member to cover the pad, or to be inserted between the sheets of the pad, and whereby when such binder member is inserted between the sheets of the pad, the members of the cover may be folded over for covering the pad.

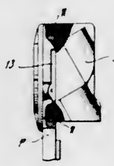
1,345,330. WINDSHIELD-CLEANER. CHRISTOPHER A. SHEA, New York, N. Y. Filed Jan. 10, 1920. Serial No. 350,500. 2 Claims. (Cl. 15—59.)

1. In a windshield cleaning mechanism, the combination of a stationary frame supported at one side of the windshield, a cleaning brush, a slidable overhanging member mounted on the frame and supporting the brush on the other side of the windshield, means for reciprocating said slidable member including a stationary rotary electric



motor secured to the stationary frame, and a member on the motor shaft for engagement with the slidable member for reciprocating said member.

1,345,331. MAGNETO-ELECTRIC MACHINE. HENRY W. UHL, Freeport, N. Y., assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 25, 1919. Serial No. 285,041. 4 Claims. (Cl. 123—149.)

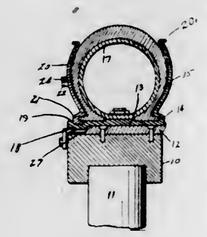


1. In a magneto electric machine, the combination with a magneto unit, a high tension current distributer, a dynamo unit, and a casing composed of two parts wherein the units are housed, the two parts of the casing being fitted together and forming when joined a recess, the portion of the casing wherein the rotary part of the distributer is housed forming one wall of the recess and having an annular groove of a block insertible into and removable from said recess, said block forming the stationary part of the distributer and having an annular rib projecting from the front face thereof, said rib being adapted to enter said groove when the block is in position in said recess, protuberances projecting from the front faces of said block a distance equal to or slightly greater than the distance which said rib projects from the front face of the block, that portion or wall of the casing wherein the rotary part of the distributer is mounted being provided with recesses corresponding in position to the position of said protuberances, whereby said protuberances protect said rib when the block is being inserted into or removed from its recess in the casing, said protuberances entering said recesses when the block is in proper position within said recess in the casing, and means for yieldingly pressing the block against the wall of the casing where the rotary part of the distributer is housed, said yielding means permitting ready insertion and removal of said block into and out of said recess.

1,345,332. DEMOUNTABLE RIM. MARK HOLLISTER, Jr., Fort Dodge, Iowa. Filed July 5, 1918. Serial No. 243,370. 1 Claim. (Cl. 152—21.)

In a device of the character described, a demountable rim, comprising an annular rim member having on its outer surface an annular rib, having adjacent to each of its sides a channel shaped portion adapted to receive the bead of

a tire, an annular outwardly extending curved flange formed on one of said channel shaped portions, said flange being designed to rest snugly against a portion of the side of the tire, when it is inflated, an annular groove formed in said rim adjacent to the free channel shaped portion, an annular member having the form of a split ring adapted to fit in said groove for holding the tire on said rim, said last described member having an outwardly extending



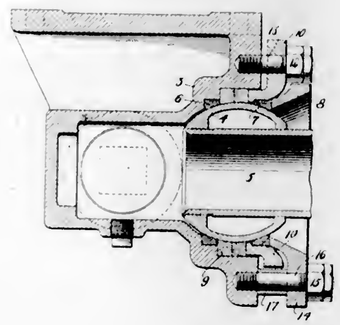
curved flange formed thereon, and adapted to rest snugly against the free side of the tire, means for locking the ends of the last described annular member together, a tread surface formed on the outer edge of both of said curved flanges, whereby when the tire becomes deflated, the tread surfaces will engage with the road, while the tire will be received between said flanges and be protected thereby.

1,345,333. SWING. JOHN JOCHUMSEN and GEORGE A. NETCOTT, Independence, Iowa, assignors to L. C. Simmons, A. C. Burkhart, C. V. Rosenberger, J. T. Barnett, and A. H. Trask, Independence, Iowa. Filed Dec. 6, 1918, Serial No. 265,556. Renewed Mar. 20, 1920. Serial No. 367,431. 8 Claims. (Cl. 155—65.)



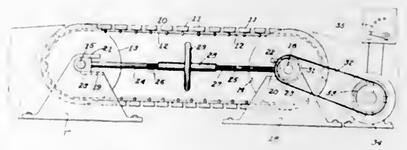
1. A swing comprising an effectively single elongated bar adapted to be pivotally hung at one end from an overhead support, a foot-rest pivoted to the other end of the bar on one side thereof, a seat at an intermediate point of the length of the bar on the other side thereof from the foot-rest, flexible connections from the foot-rest to the upper end portion of the bar, and direction-changing means engaging the flexible connection adjacent to the upper end of the bar.

1,345,334. FLEXIBLE JOINT. HAL R. STAFFORD, North Plainfield, N. J., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Nov. 1, 1919. Serial No. 335,049. 5 Claims. (Cl. 285—94.)



5. A flexible joint comprising in combination, a housing member, a member flexibly mounted within and seated against said housing member, a holding ring, a plurality of packing rings, and means for adjusting the holding ring and packing rings independently of each other.

1,345,335. AEROPLANE STARTING AND LANDING PLATFORM. IGNATZ F. WIELGOSZ, Milwaukee, Wis. Filed Feb. 4, 1920. Serial No. 356,216. 2 Claims. (Cl. 244—2.)

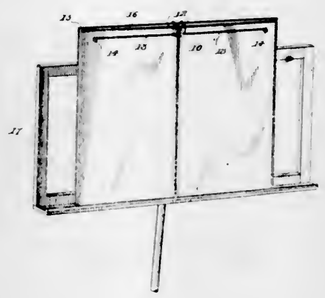


1. An aeroplane launching and landing apparatus comprising and endless band, means for causing same band to move at various speeds, said means comprising an electric motor and a rheostat for controlling said motor, sprocket wheels over which said band is looped, shafts on which said sprocket wheels are mounted, bearing blocks in which said shafts are journaled, pillow blocks formed with guides in which said bearing blocks are slidably mounted, rods projecting rigidly from said pillow blocks toward one another and having adjacent ends oppositely screw threaded and turnbuckles engaging said oppositely screw threaded ends.

1,345,336. BOOK OR SHEET-MUSIC OPENER. MABEL A. REILLY, Freeville, N. Y. Filed June 29, 1918. Serial No. 242,554. 2 Claims. (Cl. 24—67.)

1. A device for holding a book distended with its pages flat together when the book is open comprising a central wire portion of substantially-Ushape adapted to lie against the back of a book at the center thereof, the ends of the wire forming the central portion extending away from and then toward the plane of said central portion to be a point adjacent the base of the latter for engaging the two pages of the open book at the center of the latter, the ends of the wire further extending in opposite direc-

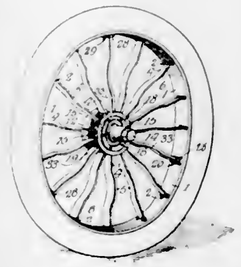
tions in a plane parallel to the plane of the central portion and in the direction of the length of the base of the



latter to provide a pair of relatively long arms adapted to bear against the two pages of the open book for the major portion of the width of said pages.

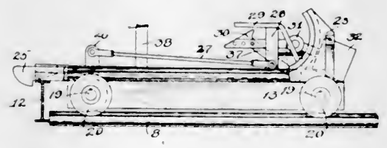
REISSUES.

14,900. RESILIENT WHEEL. WILLIAM A. BLACK, Spokane, Wash., assignor to The Simplex Auto Wheel Company, Spokane, Wash. Filed Nov. 1, 1919. Serial No. 335,133. Original No. 1,277,537, dated Sept. 3, 1918, Serial No. 212,078, filed Jan. 16, 1918. 17 Claims. (Cl. 152—50.)



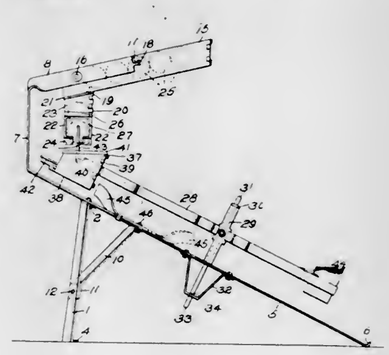
15. A spring wheel comprising a hub, a rim, a plurality of spring-spokes connected with the rim and the hub, resilient material at the hub between the hub ends of the spokes and extending part way therealong and resiliently connecting said hub ends, said resilient matter resiliently resisting the pressure circumferentially of such spokes when the load is applied thereto.

14,901. AUTOMATIC TRANSFER FOR DUMP-CARS. WILLIAM J. BLACK, Chicago, Ill. Filed July 15, 1918. Serial No. 245,109. Original No. 1,249,305, dated Dec. 11, 1917, Serial No. 137,380, filed Dec. 16, 1916. 28 Claims. (Cl. 104—48.)



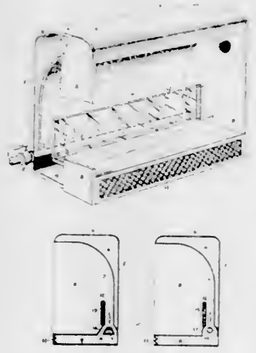
28. In a device of the class described, the combination with a dump car, of a transfer truck located in the path of movement of said car, coöperating means on said car and truck for automatically interlocking said car and truck when said car is moved upon said truck.

14,902. MECHANICAL TOY. VINCENT STROTHER GAINES, Webster Groves, Mo., assignor to Benjamin F. Bain, Pittsburgh, Pa. Filed Mar. 20, 1920. Serial No. 367,366. Original No. 1,301,552, dated Apr. 22, 1919, Serial No. 230,118, filed Apr. 22, 1918. 13 Claims. (Cl. 46—37.)



1. A mechanical toy, comprising a frame, a hopper supported by said frame and provided with a discharge opening, a swinging arm supported by said frame, a container on one end of said arm for receiving a load from said hopper, a counterweight on the other end of said arm, and means for discharging the load from the hopper into said container, said arm being mounted on an inclined axis, whereby the counter-weight maintains said arm in position with the container underneath the discharge opening from the hopper and the deposit of a load in said container causes said arm to swing on its axis.

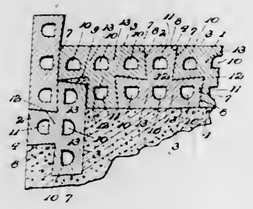
14,903. GAS OR VAPOR HEATER. LEON P. LOWE, San Francisco, Calif. Filed Mar. 27, 1919. Serial No. 285,675. Original No. 1,273,636, dated July 23, 1918, Serial No. 154,961, filed Mar. 15, 1917. 2 Claims. (Cl. 126—86.)



1. A gas or vapor consuming heater comprising a burner having a linear series of fuel outlets, an air conduit leading upwardly to said outlets, a continuous vertical sheet of translucent material in front of all fuel outlets of the heater, a wall, of which a lower portion extends upwardly behind said outlets, and an upper portion extends over

the top of said translucent sheet and forwardly thereof, said sheet and wall being spaced from the outlets sufficiently to form a flue discharging at its upper portion forwardly into the room, and means for removably supporting said sheet in a position in which its upper edge extends higher than the flames from the fuel burning at all of said outlets and air is prevented from passing around its lower edge and ends.

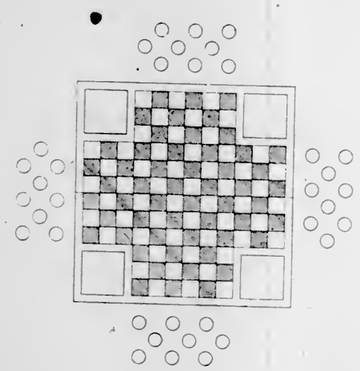
14,904. BUILDING AND PAVING BLOCK. HAROLD S. WHEELER, Tacoma, Wash. Filed Sept. 20, 1919. Serial No. 325,253. Original No. 1,244,008, dated Oct. 23, 1917, Serial No. 100,951, filed May 31, 1916. 8 Claims. (Cl. 94—13.)



7. A building block comprising a head having a central tongue and lateral projecting portions, the adjacent surfaces of both the tongue and said lateral projecting portions forming acute angles with the outer surface of said head and with one another, and the end surfaces of said lateral portions being inclined outward toward the tongue, substantially as described.

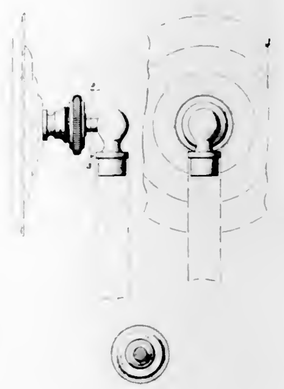
DESIGNS.

55,544. GAME-BOARD. FRANK R. ADDIS, Allentown, Pa. Filed Jan. 28, 1920. Serial No. 354,734. Term of patent 14 years.



The ornamental design for a game board, as shown.

55,545. MIRROSCOPE-SUPPORT. ARTHUR S. ALEXANDER, New York, N. Y., assignor to The J. Alexander Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Feb. 11, 1920. Serial No. 357,819. Term of patent 14 years.



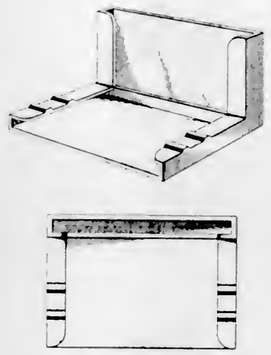
The ornamental design for a mirroscope support, substantially as shown.

55,546. STATUE. GUSTAVUS BESS, Portland, Oreg. Filed Jan. 8, 1920. Serial No. 350,224. Term of patent 14 years.



The ornamental design for a statue as shown.

55,547. PAPER-HOLDER. JOHN E. BOLLING, New York, N. Y., assignor to Carrier Engineering Corporation, New York, N. Y. Filed Nov. 5, 1919. Serial No. 335,948. Term of patent 7 years.



The ornamental design for a paper holder as shown.

55,548. BADGE, EMBLEM, OR SIMILAR ARTICLE. JAMES A. BRADEN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 19, 1920. Serial No. 352,616. Term of patent 3½ years.



The ornamental design for a badge, emblem, or similar article as shown.

55,549. BADGE, EMBLEM, OR SIMILAR ARTICLE. JAMES A. BRADEN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 19, 1920. Serial No. 352,617. Term of patent 3½ years.



The ornamental design for a badge, emblem, or similar article as shown.

55,550. BADGE, EMBLEM, OR SIMILAR ARTICLE. JAMES A. BRADEN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 19, 1920. Serial No. 352,618. Term of patent 3½ years.



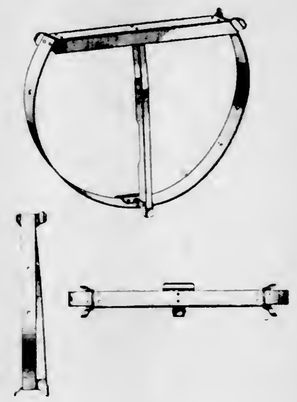
The ornamental design for a badge, emblem, or similar article as shown.

55,551. BADGE, EMBLEM, OR SIMILAR ARTICLE. JAMES A. BRADEN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 19, 1920. Serial No. 352,619. Term of patent 3½ years.



The ornamental design for a badge, emblem, or similar article as shown.

55,552. AUTOMOBILE-TIRE RACK. JOHN F. BRENNAN, Williamsport, Pa. Filed Feb. 17, 1920. Serial No. 359,350. Term of patent 7 years.



The ornamental design for an automobile tire rack, as shown.

55,553. NECKTIE-HOLDER. JAMES L. DORWARD, San Francisco, Calif. Filed Feb. 19, 1919. Serial No. 278,973. Term of patent 7 years.



The ornamental design for a necktie holder, as shown.

55,554. EMBLEM, BADGE, STICKPIN, OR SIMILAR ARTICLE. HAROLD G. ESSAYAN, Brookline, Mass. Filed Mar. 10, 1919. Serial No. 281,859. Term of patent 3½ years.



The ornamental design for an emblem, badge, stickpin or similar article as shown.

55,555. RING. HAROLD G. ESSAYAN, Brookline, Mass. Filed Dec. 5, 1919. Serial No. 342,847. Term of patent 3½ years.



The ornamental design for a ring as shown.

55,556. RING. HAROLD G. ESSAYAN, Brookline, Mass. Filed Dec. 5, 1919. Serial No. 342,848. Term of patent 3½ years.



I claim the ornamental design for a ring as shown.

55,557. RING. HAROLD G. ESSAYAN, Brookline, Mass. Filed Dec. 5, 1919. Serial No. 342,849. Term of patent 3½ years.



I claim the ornamental design for a ring as shown.

55,558. RING. HAROLD G. ESSAYAN, Brookline, Mass. Filed Dec. 5, 1919. Serial No. 342,850. Term of patent 3½ years.



I claim the ornamental design for a ring as shown.

55,559. RING. HAROLD G. ESSAYAN, Brookline, Mass. Filed Dec. 5, 1919. Serial No. 342,851. Term of patent 3½ years.



I claim the ornamental design for a ring as shown.

55,560. CHARM, PIN, FLAG, EMBLEM, BANNER, PENNANT, PILLOW-TOP, OR ARTICLE OF SIMILAR NATURE. THOMAS C. GLEASON, Chicago, Ill. Filed Dec. 23, 1918. Serial No. 268,111. Term of patent 14 years.



The ornamental design for a charm, pin, flag, emblem, banner, pennant, pillow top, or article of similar nature as shown.

55,561. DOLL. BENJAMIN GOLDENBERG, New York, N. Y., assignor to E. I. Horsman & Aetna Doll Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 21, 1920. Serial No. 353,091. Term of patent 7 years.



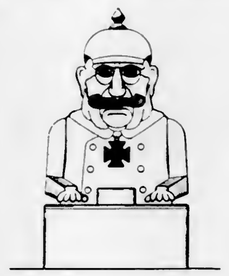
The ornamental design for a doll, as shown.

55,562. DOLL OR STATUETTE. SAMUEL HASKELL, New York, N. Y. Filed Dec. 27, 1919. Serial No. 347,860. Term of patent 7 years.



The ornamental design for a doll or statuette as shown.

55,563. MECHANICAL TOY FIGURE. HENRY W. L. HERBERT, New York, N. Y. Filed Mar. 3, 1919. Serial No. 280,480. Term of patent 3½ years.



The ornamental design for a mechanical toy figure, as shown.

55,564. PIN, BADGE, FLAG, OR SIMILAR ARTICLE. CHESTER A. HOWARD, Brooklyn, N. Y. Filed Nov. 13, 1918. Serial No. 262,403. Term of patent 3½ years.



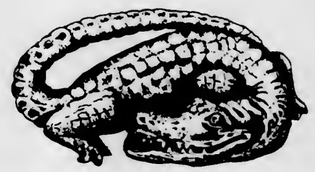
The ornamental design for a pin, badge, flag, or similar article, as shown.

55,565. PENCIL-HOLDER. ANNZZANETTA BERTHA JONES, Detroit, Mich. Filed Dec. 13, 1917. Serial No. 207,017. Term of patent 14 years.



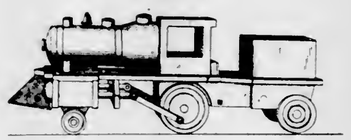
The new, original, and ornamental design for a pencil holder substantially as shown.

55,566. HATPIN, SCARFPIN, CUFF-LINK, TIE-CLIP, RING, FOB, PENDANT FOR NECK-CHAINS, PIN, OR ARTICLE OF MANUFACTURE OF LIKE CHARACTER. FREDERICK KAUFMANN, Jr., Brooklyn, N. Y., assignor to Jefferson E. Duncan, Arlington Heights, Mass. Filed Dec. 13, 1919. Serial No. 344,705. Term of patent 7 years.



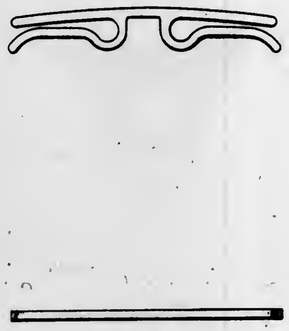
The ornamental design for a hatpin, scarf pin, cuff link, tie clip, ring, fob, pendant for neck chains, pin, or article of manufacture of like character as shown.

55,567. TOY LOCOMOTIVE. TONY KLIPPEL, Frankfort, Ind. Filed Mar. 18, 1920. Serial No. 366,991. Term of patent 14 years.



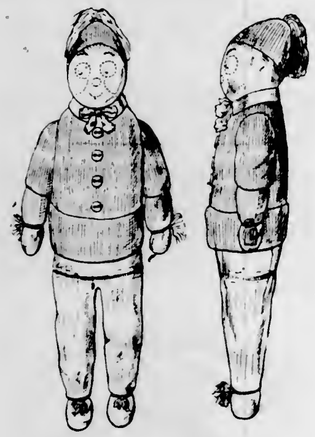
The ornamental design for a toy locomotive, as shown.

55,568. COLLAR-HOLDER. JOSEPH A. MARINER, Chicago, Ill. Filed Aug. 28, 1919. Serial No. 320,539. Term of patent 14 years.



The ornamental design for a collar holder, as shown.

55,569. DOLL. MINNIE M. MELDRAM, New York, N. Y. Filed Oct. 4, 1919. Serial No. 328,593. Term of patent 7 years.



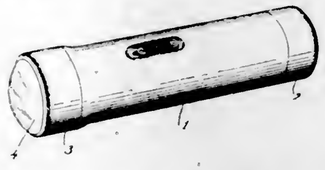
The ornamental design for a doll, as shown.

55,570. COMBINATION SCHOOL-DESK. JESSE C. MOORE, Indianapolis, Ind. Filed Mar. 22, 1920. Serial No. 367,864. Term of patent 14 years.



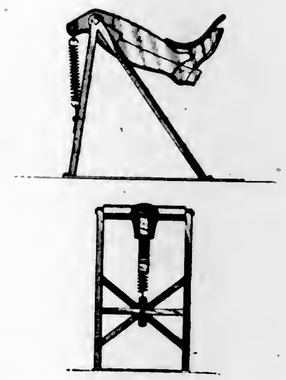
The ornamental design for a combination school desk, as shown.

55,571. BATTERY HAND-LAMP. ARTHUR P. PAINE, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 2, 1920. Serial No. 370,891. Term of patent 14 years.



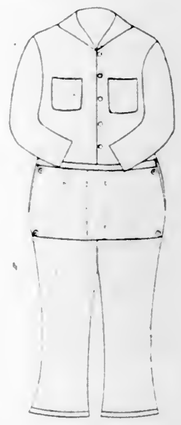
The ornamental design for a battery hand lamp substantially as shown and described.

55,572. SWING. HILDING F. PETERSON, Marshalltown, Iowa. Filed Feb. 27, 1920. Serial No. 361,657. Term of patent 14 years.



The ornamental design for a swing, as shown.

55,573. SUIT OF COVERALLS. PEACHANN PFEFFERLE and MARGARET E. PFEFFERLE, Columbus, Ohio. Filed May 29, 1919. Serial No. 300,742. Term of patent 7 years.



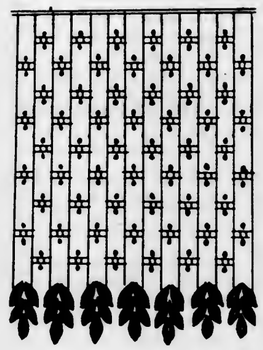
The ornamental design for a suit of coveralls as shown.

55,574. STATUE, STATUETTE, OR ORNAMENT. LEONARD W. SEBRING, Moline, Ill. Filed Dec. 22, 1919. Serial No. 346,798. Term of patent 7 years.



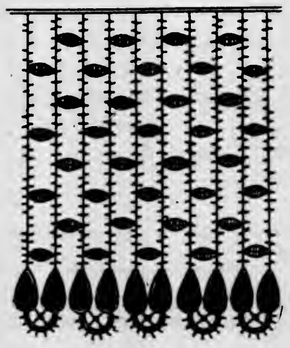
The ornamental design for a statue, statuette, or ornament, as shown.

55,575. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,484. Term of patent 3½ years.



The ornamental design for lace, as shown.

55,576. LACE. MARTIN SEIDEL, Weehawken, N. J., assignor to West Shore Embroidery Company, West New York, N. J., a Corporation of New Jersey. Filed Dec. 30, 1919. Serial No. 348,488. Term of patent 3½ years.



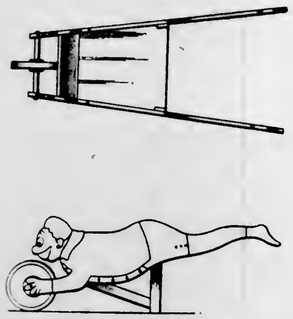
The ornamental design for lace, as shown.

55,577. LAPEL-RIBBON. ALBERT TILT, New York, N. Y. Filed Sept. 24, 1919. Serial No. 326,084. Term of patent 7 years.



The ornamental design for a lapel ribbon, as shown.

55,578. TOY WHEELBARROW. VINCENT UNTE, Detroit, Mich. Filed Feb. 2, 1920. Serial No. 355,774. Term of patent 14 years.



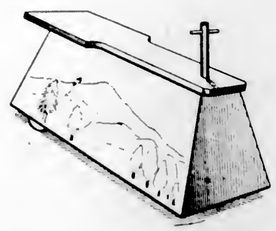
The ornamental design for a toy wheelbarrow as shown and described.

55,579. DOLL, STATUETTE, SCULPTURE, OR ARTICLE OF SIMILAR NATURE. HARRY WEINBERGER, Brooklyn, N. Y. Filed Jan. 14, 1920. Serial No. 351,486. Term of patent 3½ years.



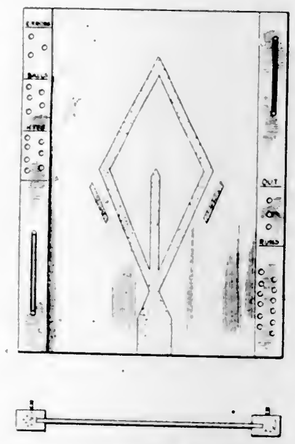
The ornamental design for a doll, statuette, sculpture, or article of similar nature, as shown.

55,580. TOY VEHICLE. JESSE C. WELCH, Tacoma, Wash. Filed Dec. 17, 1919. Serial No. 345,652. Term of patent 7 years.



The ornamental design for a toy vehicle, as shown.

55,581. GAME-BOARD. GEORGE A. WRAITH, Zanesville, Ohio. Filed Mar. 26, 1920. Serial No. 369,110. Term of patent 14 years.



The ornamental design for a game board as illustrated.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 29, 1920.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 108,739. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BARKER BROS., SILVERSMITHS, LTD., Birmingham, England. Filed Feb. 1, 1918.



Particular description of goods.—Forks, Spoons, Sugar-Tongs, Ladles, Table-Cutlery, Cruets, Cake-Stands, Egg-Stands, and Fruit Dishes, of Silver and of Silver Plate and Electroplate.

Claims use since Nov. 18, 1903.

Ser. No. 109,078. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

VERNALEUR

The word "Vernaleur."

Particular description of goods.—Hand-Mirrors, Wall-Mirrors, Mirror-Frames, Picture-Frames, Ornamental Holders for Flower-Vases in the Nature of a Pedestal or Wall-Bracket, Display Cigar-Cabinets, Display-Cases, Serving-Trays, and Molded Coverings for Stools and Chairs. The Products Enumerated are Made of Pyroxylin.

Claims use since Jan. 5, 1918.

Ser. No. 109,080. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

AMBERLEUR

The word "Amberleur."

Particular description of goods.—Hand-Mirrors, Wall-Mirrors, Mirror-Frames, Picture-Frames, Ornamental Holders for Flower-Vases in the Nature of a Pedestal or Wall-Bracket, Display Cigar-Cabinets, Display-Cases, Serving-Trays, and Molded Coverings for Stools and Chairs. The Products Enumerated Above are Made of Pyroxylin.

Claims use since Jan. 5, 1918.

Ser. No. 109,088. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

AMBERLEUR

The word "Amberleur."

Particular description of goods.—Dental Inhalers, Artificial Human Teeth, Artificial Human Jaws, Nail-Files, Cuticle-Knives, Knives for the Removal of Corns from the Human Foot, Toilet Tweezers, Nail-Cleaners, Nail-Polishers, Teething-Rings, Infant-Pacifiers, Ball-Like Coverings for Babies' Hands, Nail-Scissors, and Surgical-Instrument Trays.

Claims use since Jan. 5, 1918.

Ser. No. 109,574. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. GUSMER, INC., New York, N. Y. Filed Mar. 15, 1918.

KOTITE

Particular description of goods.—Varnish Substitute Consisting Essentially of Gum-Resin and Wax Composition.

Claims use since January, 1918.

Ser. No. 109,785. (CLASS 39. CLOTHING.) HARRY WALKER AND SON (LEEDS) LIMITED, Leeds, England. Filed Mar. 25, 1918.



No claim is made for the word "Walker's" apart from the mark shown in the drawing.

Particular description of goods.—Boots and Shoes of Cloth, Leather, or Rubber.

Claims use since July 14, 1917.

Ser. No. 109,930. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. SIDENBERG & CO., New York, N. Y. Filed Apr. 2, 1918.

RAINBOW

Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1918.

Ser. No. 110,035. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) REVERE RUBBER COMPANY, Providence, R. I., and Chelsea, Mass. Filed Apr. 6, 1918.

RED CRESCENT

Particular description of goods.—Belting Composed of Rubber and Fabric.
Claims use since Mar. 2, 1917.

Ser. No. 110,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOKANE MEELMOLENS (SPOKANE FLOUR MILLS), Amsterdam, Holland, and Pendleton, Oreg. Filed Apr. 9, 1918.

Hollandia

The lining shown on the drawing is for shade lines only.
Particular description of goods.—Wheat-Flour.
Claims use since Feb. 1, 1918.

Ser. No. 110,440. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES SCHINDLER, Toledo, Ohio. Filed Apr. 25, 1918.

CUM-BAC

Particular description of goods.—Rolling Toy of Cylindrical Form.
Claims use since March, 1909.

Ser. No. 110,684. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CELLULOID COMPANY, New York, N. Y. Filed May 6, 1918.

SHELLEUR

The word "Shelleur."
Particular description of goods.—Hand-Mirrors, Wall-Mirrors, Mirror-Frames, Picture-Frames, Ornamental Holders for Flower-Vases in the Nature of a Pedestal or Wall-Bracket, Display Cigar-Cabinets, Serving-Trays, Display-Cases, and Molded Coverings for Stools and Chairs. The Products Enumerated Above are Made of Pyroxylin.
Claims use since Jan. 5, 1918.

Ser. No. 110,685. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CELLULOID COMPANY, New York, N. Y. Filed May 6, 1918.

EBONEUR

The word "Eboneur."
Particular description of goods.—Pyroxylin Products—Namely, Hand-Mirrors, Wall-Mirrors, Mirror-Frames, Picture-Frames, Ornamental Holders for Flower-Vases in the Nature of a Pedestal or Wall-Bracket, Display Cigar-Cabinets, Serving-Trays, Display-Cases, and Molded Coverings for Stools and Chairs.
Claims use since Jan. 5, 1918.

Ser. No. 113,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEACOAST CANNING CO., Eastport, Me. Filed Sept. 13, 1918.

NEPTUNE

Particular description of goods.—Canned Sardines.
Claims use since August, 1899.

Ser. No. 113,240. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) C-AND-B CO. (NOT INC.), Chicago, Ill. Filed Sept. 19, 1918.

C-AN-B

Particular description of goods.—A Dry Fusible Metallic Filler for Filling in Blowholes in Iron and Steel Castings and Forgings, for Boiler and Pipe Leaks, to Make Pipe-Joints, and to Repair Such Other Metallic Structures as are Used in Building Construction and in the Construction of Machines and Tools Which May Require Repairs Because of Inherent Defects Occurring in the Manufacture Thereof.
Claims use since June 30, 1918.

Ser. No 113,326. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ERWIN MANUFACTURING COMPANY, Milwaukee, Wis. Filed Sept. 24, 1918.

FIREFOAM

Particular description of goods.—Hand-Operated Portable and Stationary Fire-Extinguishers.
Claims use since Feb. 1, 1916.

Ser. No. 114,575. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WIKSTROM MANUFACTURING COMPANY, East Orange, N. J. Filed Dec. 9, 1918.

KK

Particular description of goods.—Wax Floor-Dressing, Automobile-Body Polish, Piano and Furniture Polish.
Claims use since Dec. 13, 1918.

Ser. No. 114,608. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GOETZE GASKET & PACKING COMPANY, New Brunswick, N. J. Filed Dec. 12, 1918.



Particular description of goods.—Asbestos Composition Packings.
Claims use since 1910.

Ser. No. 115,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Jan. 13, 1919.





The trade-mark consists of a seam closing a bag containing flour, formed of a thread, one strand of which thread is cream white and the other is a tan or light-brown color.
Particular description of goods.—Wheat-Flour.
Claims use since Sept. 20, 1885.

Ser. No. 115,289. (CLASS 5. ADHESIVES.) THE LEDENHALL PRESS, LIMITED, London, England. Filed Jan. 18, 1919.

FIXOL.

Particular description of goods.—Adhesive Pastes and Muscilages.
Claims use since Dec. 30, 1903.

Ser. No. 115,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN MARTHA WASHINGTON CANDIES CO., Chicago, Ill. Filed Jan. 22, 1919.



The words "Lunch-Bar" are disclaimed except as used in connection with the other features of the mark sought to be registered.
Particular description of goods.—Crackers or Biscuits.
Claims use since on or about July 1, 1918.

Ser. No. 115,535. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCKUSICK, TOWLE & COMPANY, Minneapolis, Minn. Filed Jan. 30, 1919.

"The House of Sweet Secrets"

Particular description of goods.—Candy.
Claims use since 1910.

Ser. No. 115,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) X. L. TAMALE CAFE, Stockton, Calif. Filed Feb. 14, 1919.



Particular description of goods.—Fresh Tamales.
Claims use since about Aug. 20, 1913.

Ser. No. 116,085. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GOOD LUCK POLISH CO., Louisville, Ky. Filed Feb. 24, 1919.



The lining in the drawing is for the purpose of indicating the color green.
Particular description of goods.—All Colors and Kinds of Shoe-Polish—Namely, Polish for Black and White Shoes and Oil Paste and Liquid Shoe-Polishes.
Claims use since 1910.

Ser. No. 116,482. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE BURR OAK BELTING COMPANY, Cincinnati, Ohio. Filed Mar. 12, 1919.



No color being represented in the drawing. No claim is made to the word "Hyde" except in the connection shown in drawing.

Particular description of goods.—Leather Belting.

Claims use since June 29, 1915.

Ser. No. 116,634. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTMORELAND CANDY CO., INC., Richmond, Va. Filed Mar. 15, 1919.

DEPENDABLE WESTMORELAND

No claim is made to words "Dependable" and "Westmoreland" apart from the mark shown.

Particular description of goods.—Candies.

Claims use since July, 1917.

Ser. No. 116,695. (CLASS 31. FILTERS AND REFRIGERATORS.) JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa. Filed Mar. 18, 1919.

PURITAN

Particular description of goods.—Domestic or Household Refrigerators and Water-Coolers.

Claims use since Apr. 1, 1888.

Ser. No. 117,055. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK R. NEWTON, San Antonio, Tex. Filed Mar. 31, 1919.

St. Julian.

Particular description of goods.—Taffy Candy.

Claims use since about March, 1914.

Ser. No. 117,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. ELMO MILLING CO., St. Elmo, Ill. Filed Apr. 5, 1919.



HAPPY HOME

Particular description of goods.—Wheat-Flour.

Claims use since July 1, 1900.

Ser. No. 117,293. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Apr. 9, 1919.

CHENEY SILKS

No claim is made to the word "Silks" apart from the mark as shown.

Particular description of goods.—Fabrics of Silk and Silk Mixtures.

Claims use since about 1908.

Ser. No. 117,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. G. ALLINGER, Quincy, Ohio. Filed Apr. 12, 1919.

GOLDEN RULE

Particular description of goods.—Wheat-Flour, Buckwheat-Flour, Graham Flour, Pancake-Flour, and Cornmeal.

Claims use since 1871.

Ser. No. 117,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN MARTHA WASHINGTON CANDIES CO., Chicago, Ill. Filed Apr. 14, 1919.



The combined word "Nu-Treat" is disclaimed except as used in connection with the other features of the mark.

Particular description of goods.—Candy, Chocolate, Taffy, and Crackers or Biscuits.

Claims use since on or about Jan. 2, 1919.

Ser. No. 117,543. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. T. STORK & CO., INC., New York, N. Y. Filed Apr. 16, 1919.



VALLEY BRAND

The word "Brand" as a part of the trade-mark is not claimed.

Particular description of goods.—Condensed Milk.

Claims use since January, 1919.

Ser. No. 117,681. (CLASS 39. CLOTHING.) HARRY A. MARIL, Kansas City, Mo. Filed Apr. 21, 1919.

Com-bin-all THE MARIL

Particular description of goods.—Convertible Outer Garment of Fabric Material and Adapted to be Worn Either as a Jacket or a Long Skirted Coat.

Claims use since Apr. 15, 1919.

Ser. No. 117,688. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NATIONAL RUBBER COMPANY, Elgin, Ill. Filed Apr. 21, 1919.

U-REEK-A MOTOR PHYSIC

The word "Motor" is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—A Mixture for Gasolene. The Mixture Consists of a Liquid Which is Mixed With Gasolene for Elimination of Carbon Therefrom.

Claims use since Feb. 27, 1919.

Ser. No. 117,771. (CLASS 17. TOBACCO PRODUCTS.) WILLIAM L. BEITLER, Jr., New York, N. Y. Filed Apr. 23, 1919.

APACA

Consisting of the word "Apaca."

Particular description of goods.—Cigarettes.

Claims use since Apr. 17, 1919.

Ser. No. 117,974. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. GRAFF COMPANY, Boston, Mass. Filed Apr. 29, 1919.

VISE

Particular description of goods.—File-Signals—Namely, a Separable Index or Guide for Attachment to Cards, Pages of Books, and the Like, and Index-Tabs—Namely, a Device with Means for Attachment to Cards, Leaves of Books, and the Like and Provided with Means Whereby Writing May be Inscribed Upon Same.

Claims use since April, 1909.

Ser. No. 118,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPHINE HOLLOWAY, Philadelphia, Pa. Filed Apr. 30, 1919.



Trade-mark is a portrait of the applicant.

Particular description of goods.—Canned Hair Preparation.

Claims use since Feb. 2, 1915.

Ser. No. 118,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. R. BYRUM & COMPANY, Chicago, Ill. Filed May 5, 1919.

MARY LEE

Particular description of goods.—Candy.

Claims use since on or about Jan. 10, 1919.

Ser. No. 118,182. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT C. ROACH, Kansas City, Mo. Filed May 5, 1919.

KAMASO

Particular description of goods.—A Mixture or Compound of Milk and Vegetable Fat Adapted for Use Either as a Frozen or Unfrozen Confection.
Claims use since Apr. 30, 1919.

Ser. No. 118,196. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TWIN CITY VARNISH CO., St. Paul, Minn. Filed May 5, 1919.

REVIVETTE

Particular description of goods.—Thin Liquid Varnish.
Claims use since on or about Oct. 1, 1918.

Ser. No. 118,427. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CROWN CORK AND SEAL COMPANY OF BALTIMORE CITY, Baltimore, Md. Filed May 13, 1919.

Economy

Particular description of goods—Extractors for Bottle and Jar Closures.
Claims use since about Mar. 10, 1919.

Ser. No. 118,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed May 14, 1919.

"TOOT-SWEET"

Particular description of goods.—Candy.
Claims use since Apr. 15, 1919.

Ser. No. 118,511. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STEWART DICKSON & COMPANY, INCORPORATED, Boston, Mass. Filed May 15, 1919.

DICKSON'S
VICTORY

Particular description of goods.—Fibrous Steam-Packing Composed of Asbestos, Rubber, and Oil.
Claims use since Apr. 28, 1919.

Ser. No. 118,513. (CLASS 39. CLOTHING.) FEDERAL OVERGAITER COMPANY, New York, N. Y. Filed May 15, 1919.

Federal

Particular description of goods.—Overgaiters or Spats Made of Felt, Cloth, Canvas, and Linen.
Claims use since Apr. 1, 1919.

Ser. No. 118,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed May 22, 1919.

Belcourt

Particular description of goods.—Candy, Chocolate, and Cocoa.
Claims use since Mar. 15, 1919.

Ser. No. 119,037. (CLASS 39. CLOTHING.) HARUICHI KOHTROGAWA, New York, N. Y. Filed May 29, 1919.

EVEREADY

Consisting of the word "Eveready."
Particular description of goods.—Neckties.
Claims use since Apr. 5, 1919.

Ser. No. 119,121. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHARLES L. DURHAM, Salina, Kans. Filed June 2, 1919.



No claim being made to the word "Dur-a-bul" and the representation of the patch apart and from their association with the mark as shown.
Particular description of goods.—Blow-Out Patch for Automobile-Tire Casings.
Claims use since Jan. 1, 1919.

Ser. No. 119,475. (CLASS 39. CLOTHING.) JAMES A. HEARN & SON, INC., New York, N. Y. Filed June 11, 1919.

STYLWEAR

Particular description of goods.—Men's, Women's, Junior's, Boys', Misses' and Children's Outer and Under Clothing in One, Two, and Three Piece Garments, Viz., Men's Trousers, Vests, Coats, Shirts; Undergarments, (Knitted and Flat;) Overcoats, Caps, Hats, Gloves, Smoking-Jackets, Ties, and Collars; Women's Skirts, Waists, Dresses, Coats, Hats, Capes, Wraps, Furs, Camisoles, Chemises; Undergarments, (Knitted and Flat;) Petticoats, Bloomers, Underskirts, Blouses, Gloves, Veils, Neckwear, and Negligées; Juniors' Skirts, Middy-Blouses, Dresses, Coats, Hats, Capes; Underwaists, (Knitted and Flat;) Underskirts; Drawers, (Knitted and Flat;) Shirts, and Gloves; Boys' Hats, Coats, Overcoats, Pants, Shirts, Collars, Ties, and Caps; Misses' Skirts, Waists, Blouses, Dresses, Coats, Hats, Capes, Wraps, Furs, Camisoles, Chemises; Undergarments, (Knitted and Flat;) Petticoats, Gloves, and Aprons.
Claims use since Apr. 2, 1919.

Ser. No. 119,760. (CLASS 25. LOCKS AND SAFES.) B. & W. COMPANY, Philadelphia, Pa., assignors to National Motor Control Co., a Corporation of Delaware. Filed June 19, 1919.

KODE-LOCK

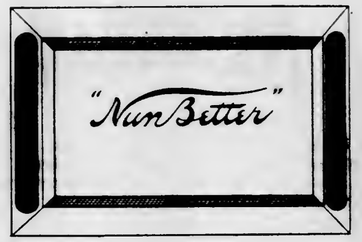
Particular description of goods.—Ignition-Locks for Internal-Combustion Engines.
Claims use since on or about Apr. 1, 1919.

Ser. No. 120,081. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. ZEREGA'S SONS, (CONSOLIDATED.) Brooklyn, N. Y. Filed June 28, 1919.

KUX-KWIK

No claim being made to the exclusive use of the words "Cooks Quick."
Particular description of goods.—Alimentary Pastes, Such as Macaroni, Egg-Noodles, and the Like.
Claims use since Apr. 14, 1919.

Ser. No. 120,164. (CLASS 2. RECEPTACLES.) THE HARDIN BAG CO. INC., New Orleans, La. Filed July 1, 1919.



No claim is made to exclusive use of the words "Nun Better" apart from the form of mark shown in the drawing.
Particular description of goods.—Burlap Bags.
Claims use since May 5, 1919.

Ser. No. 120,479. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DUNHAM COMPANY, Berea, Ohio. Filed July 12, 1919.

TRAC-O-PACKER

Particular description of goods.—Soil-Tilling Machines—Namely, Soil-Pulverizers and Corrugated Rollers.
Claims use since Aug. 17, 1918.

Ser. No. 120,730. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WORLD TIRE CORPORATION, Chicago, Ill. Filed July 19, 1919.

WORLD

Particular description of goods.—Pneumatic Tires Composed of Rubber and Fabric.
Claims use since on or about July 1, 1917

Ser. No. 121,006. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) R. H. MACY & CO., INC., New York, N. Y. Filed July 28, 1919.

Chatsworth

Particular description of goods.—Precious-Metal Hollow Ware.
Claims use since June 8, 1919.

Ser. No. 121,032. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) VIRGIL M. WRIGHT, Columbus, Ohio. Filed July 28, 1919.

WRIGHT'S SUNBEAM

The lining thereon being for shading only.

Particular description of goods.—Loganberry, Orange, Cherry, Pineapple, Raspberry, and Strawberry Syrups and Soft Drinks Made Therefrom.

Claims use since about April, 1915.

Ser. No. 121,623. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WILLARD F. GODDARD, Moberly, Mo. Filed Aug. 13, 1919.

Bear Hugg



Particular description of goods.—Puncture-Curing Patches.

Claims use since Oct. 15, 1918.

Ser. No. 121,930. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN P. GEHL, South Germantown, Wis. Filed Aug. 23, 1919.

Meje

Particular description of goods.—Canned Compounds of Milk and Vegetable Oils.

Claims use since Aug. 16, 1919.

Ser. No. 122,155. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLEARWATER CITRUS COMPANY, Clearwater, Fla. Filed Aug. 30, 1919.



No claim is made to exclusive use of the word "Jucifruit" apart from the form of mark shown in the drawing.

Particular description of goods.—Fresh Oranges and Grape-Fruit.

Claims use since Aug. 1, 1919.

Ser. No. 122,392. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRANCK & MARX, New York, N. Y. Filed Sept. 6, 1919.



Particular description of goods.—Broad Silk Fabrics in the Piece, Comprising Satin, Taffeta, Crêpe de Chine, Silk Pongee, Georgette, Radium, and Faille.

Claims use since Aug. 1, 1919.

Ser. No. 122,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Sept. 15, 1919.



Particular description of goods.—Canned Fruits.

Claims use since Mar. 26, 1896, Sept. 29, 1896, Reg. No. 28,921.

Ser. No. 122,857. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT P. ROZIENE, Phoenix, Ariz.; New York, N. Y., and Los Angeles, Calif. Filed Sept. 18, 1919.

SAN MERCI



Particular description of goods.—Milk of Magnesia and Mineral Oil, (an Internal Lubricant.)

Claims use since on or about the month of May, 1915.

Ser. No. 122,876. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Sept. 19, 1919.

SOVEREIGN



Particular description of goods.—Cigarettes, Smoking and Chewing Tobacco.

Claims use since about Dec. 26, 1877.

Ser. No. 122,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT T. FOX, Baker, Oreg. Filed Sept. 19, 1919.

FOX'S A.P.C.

No claim is made to the word "Fox's" apart from the mark shown in the drawing.

Particular description of goods.—Headache-Powders.

Claims use since 1911.

Ser. No. 122,983. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ELASTIC PAINT COMPANY, Chicago, Ill. Filed Sept. 22, 1919.

Elpaco

Particular description of goods.—Oil Paint for Metal and other Surfaces.

Claims use since Aug. 4, 1919.

Ser. No. 123,004. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed Sept. 22, 1919.

POWATAN

Particular description of goods.—Leather Belting.

Claims use since Sept. 4, 1919.

Ser. No. 123,019. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIVOLLIER-BAURIER, Toulouse, France. Filed Sept. 23, 1919.



All of the descriptive and geographic language, together with the name of the applicant, being hereby disclaimed apart from the other features of the mark.

Particular description of goods.—French Pork or Mutton or Goose or Duck and Beans, Preserved; Goose-Liver Pie; Esculent Boletus and Livers, Sausage.

Claims use since Apr. 24, 1919.

Ser. No. 123,152. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE BAILEY COMPANY, INC., Los Angeles, Calif. Filed Sept. 26, 1919.



Exclusive use of the word "Fitwell" and representation of the tire-cover is disclaimed apart from the mark as shown.

Particular description of goods.—Tire-Covers.

Claims use since November, 1912.

Ser. No. 123,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BROOKS COMPANY, Fort Scott, Kans. Filed Oct. 2, 1919.

Brooks' Best



The drawing being lined for red.

Particular description of goods.—Poultry Feed for Egg Production.

Claims use since October, 1917.

Ser. No. 123,596. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Oct. 10, 1919.



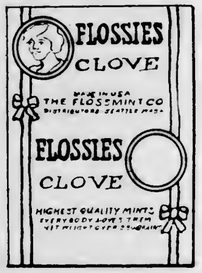
Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since about 1864.

Ser. No. 123,849. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Oct. 16, 1919.

CATERPILLAR

Particular description of goods.—Rubber and Rubber and Fabric Vehicle-Tires and Rubber and Rubber and Fabric Treads Therefor.
Claims use since Aug. 11, 1919.

Ser. No. 124,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FLOSSMINT COMPANY, Spokane, Wash. Filed Oct. 22, 1919.



No claim being made for "Clove, Made in U. S. A., The Flossmint Co., Distributors—Seattle, Wash., Highest Quality Mints, Everybody Loves Them, Net Weight Over 330 Grains."
Particular description of goods.—Candies.
Claims use since Oct. 15, 1919.

Ser. No. 124,087. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DELAWARE ELECTRIC & SUPPLY CO., Wilmington, Del. Filed Oct. 20, 1919.

DELMARVIA

Particular description of goods.—Rubber, Leather, Canvas, and Balata Belting, Rubber and Metallic Hose, Steam and Hydraulic Packing, and Pneumatic Tires, Said Packing and Tires Being Formed of Composition Rubber and Duck.
Claims use since about 1889.

Ser. No. 124,367. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed Oct. 30, 1919.

SNOWDRIFT

Consists of the word "Snowdrift," as shown in the accompanying drawing.
Particular description of goods.—A Vegetable Shortening Compound Composed of Fatty Oleaginous or Unctuous Food Substances.
Claims use since about Nov. 17, 1900.

Ser. No. 124,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JUAN MANGRANE ADELL, Tortosa, Spain. Filed Nov. 5, 1919.

MELIOR

Particular description of goods.—Olive-Oil.
Claims use since May, 1919.

Ser. No. 124,797. (CLASS 39. CLOTHING.) ARTHUR A. KATTEN COMPANY INC., New Orleans, La. Filed Nov. 12, 1919.



Particular description of goods.—Boys' Overalls and Boys' Knee-Pants and Coats.
Claims use since February, 1917.

Ser. No. 124,987. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE & KNIFE COMPANY, Pittsburgh, Pa. Filed Nov. 17, 1919.

HARDTEM

Particular description of goods.—Steel.
Claims use since Nov. 1, 1912.

Ser. No. 125,145. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ACORN TIRE AND RUBBER COMPANY, Chicago, Ill. Filed Nov. 21, 1919.



The words "Trade-Mark Reg." appearing on the drawing and on the facsimiles are hereby disclaimed.
Particular description of goods.—Pneumatic Tires and Tubes. The Tires are Composed of a Composition Canvas Base and Faced with a Rubber Exterior, While the Tubes are Composed of Rubber.
Claims use since July 1, 1919.

Ser. No. 125,623. (CLASS 39. CLOTHING.) MUNSINGWEAR CORPORATION, Minneapolis, Minn. Filed Dec. 5, 1919.



Particular description of goods.—Underwear and Hosiery.
Claims use since on or about July 1, 1919.

Ser. No. 125,724. (CLASS 37. PAPER AND STATIONERY.) HERMAN G. POHLMANN, Chicago, Ill. Filed Dec. 8, 1919.

NUART
SOCIETY LINEN

No claim for protection is made on the words "Society Linen."
Particular description of goods.—Writing-Paper.
Claims use since Oct. 1, 1916.

Ser. No. 125,952. (CLASS 39. CLOTHING.) ELKISH & BROTHER, Philadelphia, Pa. Filed Dec. 13, 1919.



The assumed name "Margaret Warner," is in the handwriting of Jules S. Elkish, no claim being made to the words "The Seal of Quality" apart from the mark shown.
Particular description of goods.—Women's, Girls', and Children's Coats.
Claims use since Nov. 15, 1919.

Ser. No. 125,977. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BREWING COMPANY, Norristown, Pa. Filed Dec. 13, 1919.

Valley Forge Special

Consisting of the words "Valley Forge Special," Valley Forge indicating the winter headquarters of General Washington in the Revolutionary War.
Particular description of goods.—Lager-Beer.
Claims use since April, 1915.

Ser. No. 126,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL HASTINGS CO., Cairo, Ill. Filed Dec. 15, 1919.



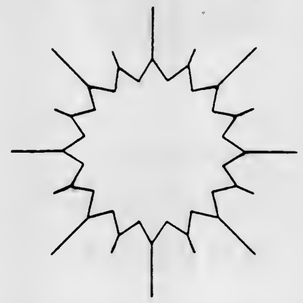
Particular description of goods.—Packaged White Corn, Yellow Corn, Mixed Corn and White Oats to be Used as Feed for Animals.
Claims use since Oct. 1, 1914.

Ser. No. 126,097. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIP CASS, Philadelphia, Pa. Filed Dec. 16, 1919.



I make no claim to the words "Quality," "Service," and "Philadelphia" apart from the mark shown thereon.
Particular description of goods.—Electrical Switches, Switch-Boxes, Clamps, Conduits, Cut-Outs, Electric Sockets, Electric-Outlet-Box Receptacles, Electrollers, Electric Toy Transformers, Electric Annunciators, Electric Bells and Bell-Boxes, Electric Floor-Treads, Electric Sadirons, Electric Stoves and Cooking Utensils, Electric Disk Heaters, Electric Percolators, Electric Lamps and Bulbs, Electric-Lamp Guards, Electric Torches, Electric Shades and Shade-Holders, Electric Reflectors, Telephones and Telephone Sets, Electric Motors, Electric Fans, and Electric-Battery Boosters.
Claims use since Sept. 1, 1913.

Ser. No. 126,122. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. GRAFF COMPANY, Boston, Mass. Filed Dec. 16, 1919.



Particular description of goods.—Paper-Clips, Index-Tabs, File-Signals, Metallic Pens, and Pencil-Sharpeners.
Claims use since Oct. 30, 1919.

Ser. No. 126,266. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE AKRON SPARK PLUG CO., Akron, Ohio. Filed Dec. 20, 1919.

PILOT

Particular description of goods.—Spark-Plugs.
Claims use since about June 17, 1919.

Ser. No. 126,286. (CLASS 2. RECEPTACLES.) NOVELTY MANUFACTURING COMPANY, Kansas City, Mo. Filed Dec. 20, 1919.

FROST KING
No
Sanitary Water Cooler
Saves in Ice Each Season Several Times Its Cost.
Novelty Manufacturing Company

No claim is made to the representation of the label or to the matter appearing thereon except the words "Frost King" apart from the mark shown by the drawing.
Particular description of goods.—Water-Containers Designed to be Used for Cooling Water in Household Refrigerators, Being Separate and Apart from the Same and Being Made of Sheet-Iron in Different Molds and Sizes.
Claims use since Dec. 1, 1914.

Ser. No. 126,385. (CLASS 39. CLOTHING.) M. S. LEVY & SONS, INC., Baltimore, Md. Filed Dec. 23, 1919.

FACILO

Particular description of goods.—Hats for Men and Women.
Claims use since May 19, 1919.

Ser. No. 126,403. (CLASS 39. CLOTHING.) WISE BROTHERS, INC., Baltimore, Md. Filed Dec. 23, 1919.

DUPLEX

Particular description of goods.—Drawers, Undershirts, Pants, Jumpers, Blouses, Rompers, Dress and Negligée Shirts, Work-Coats and Union-Undergarments of Woven Fabric.
Claims use since January, 1880.

Ser. No. 126,552. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YAGER & HALSTEAD, INC., Cortland, N. Y. Filed Dec. 27, 1919.

Finger Lakes BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Vegetables—Namely, Canned Corn, Canned Peas, Canned String-Beans, Canned Succotash; Canned Fruits.
Claims use since Dec. 15, 1919.

Ser. No. 126,573. (CLASS 37. PAPER AND STATIONERY.) A. S. J. GAMMON, Norfolk, Va. Filed Dec. 29, 1919.

Housewives SAVING

Particular description of goods.—Memorandum-Books.
Claims use since Apr. 15, 1919.

Ser. No. 126,749. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE YOUNGSTOWN SHEET & TUBE CO., Youngstown, Ohio. Filed Jan. 2, 1920.

REALFLEX

Particular description of goods.—Flexible Metal Conduits for the Protection of Electric Wires and Cables.
Claims use since 1912.

Ser. No. 126,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ADLER CO., Cleveland, Ohio. Filed Jan. 5, 1920.



Particular description of goods.—Fruit Preserves, Jams, Jelly, Fruit Butter, Marmalade, and Conserves.
Claims use since Oct. 1, 1919.

Ser. No. 126,908. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE REUS BROS. CO., Baltimore, Md. Filed Jan. 7, 1920.

REBCO

The representation of the piston ring is hereby disclaimed except in the connection shown.
Particular description of goods.—Engine Piston-Rings.
Claims use since Oct. 6, 1919.

Ser. No. 126,928. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE W. GRAHAM, New York, N. Y. Filed Jan. 8, 1920.

NIGGER HEAD



Particular description of goods.—Stove-Polish.
Claims use since Oct. 30, 1919.

Ser. No. 127,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. E. HYDE, Campbell, Calif. Filed Jan. 13, 1920.

SUNNYSIDE

Particular description of goods.—Fresh, Dried, Canned, and Preserved Fruits.
Claims use since about December, 1895.

Ser. No. 127,099. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE ROSSENDALE-REDDAWAY BELTING & HOSE CO., Newark, N. J. Filed Jan. 13, 1920.

DALEWAY

Particular description of goods.—Hair, Cotton Woven, Stitch-Canvas, and Rubber Belting.
Claims use since Jan. 6, 1920.

Ser. No. 127,245. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. THE HENKEL-CLAUSS CO., Fremont, Ohio. Filed Jan. 17, 1920. Under ten-year proviso.

Clauss

Particular description of goods.—Meat, Vegetable, and Food Choppers, Pruners; Tinner, Jeweler, Rubber, Automobile Snips; Scissors, Shears, Razors, Hand-Knives.
Claims use since July, 1887.

Ser. No. 127,527. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 24, 1920.



Particular description of goods.—Lead-Pencils, Copying-Pencils, and Mechanical Pencils.
Claims use since December, 1905.

Ser. No. 127,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHESTER MEYERS, Cleveland, Ohio. Filed Jan. 24, 1920.

SHAF-MEY

No claim being made to the word "Trade-Mark" apart from the mark shown in drawing.
Particular description of goods.—Healing-Ointments and Foot-Powders.
Claims use since Oct. 1, 1918.

Ser. No. 127,617. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TURNER MACHINE & MANUFACTURING COMPANY, Kansas City, Mo. Filed Jan. 26, 1920.

KC

KAY-SEE

Particular description of goods.—Automobile Axles and Drive-Shafts.
Claims use since Jan. 15, 1919.

Ser. No. 127,817. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL YEAST COMPANY, Cedar Rapids, Iowa. Filed Jan. 31, 1920.

IDEAL

Particular description of goods.—Yeast.
Claims use since October, 1912.

Ser. No. 127,836. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BEVERAGE CO., Norristown, Pa. Filed Jan. 31, 1920.

POTO

Particular description of goods.—A Beverage Made of Malted Cereals and Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since Jan. 8, 1920.

Ser. No. 127,837. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHEIDT BEVERAGE CO., Norristown, Pa. Filed Jan. 31, 1920.

ALO

Particular description of goods.—A Beverage Made of Malted Cereals and Containing Less Than One-half of One Per Cent. of Alcohol, by Volume.
Claims use since Jan. 8, 1920.

Ser. No. 127,846. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SPURGEON U. JOHNSON, Portland, Oreg. Filed Jan. 31, 1920.

KIDDE KRIB

Consisting of the words "Kiddie Krib," having their initial letters and the paraphs of such letters lined for blue and having the remaining letters lined for pink.
Particular description of goods.—Doll-Beds.
Claims use since October, 1919.

Ser. No. 127,848. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN HARD RUBBER COMPANY, Hempstead, N. Y. Filed Feb. 2, 1920.

A

Particular description of goods.—Hard-Rubber Syringes, Hard-Rubber Syringe-Pipes, Hard-Rubber Atomizers, Hard-Rubber Spray-Mounts, Hard-Rubber Vaginal Spray-Pipes, Hard-Rubber Suppositors, Hard-Rubber Cases for Clinical Thermometers, Hard-Rubber Devices for Holding and Applying Caustics, Hard-Rubber Spatulas for Mixing and Applying Paints or Ointments, Hard-Rubber Specula for Surgical Use, Hard-Rubber Bottles for Containing Acids or Other Corrosive Chemicals, Hard-Rubber Embalmers' Instruments, Hard-Rubber Truss-Pads, Hard-Rubber Handles for Surgical Instruments, Hard-Rubber Gum for Dental Use.
Claims use since Jan. 30, 1920.

Ser. No. 127,876. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE VAN DORN IRON WORKS CO., Cleveland, Ohio. Filed Feb. 2, 1920.

Van Dorn

Comprising an autographic signature of T. B. Van Dorn, president of the applicant company.
Particular description of goods.—Metal Furniture Comprising Filing-Cabinets, Letter-Files, Desks, Chairs, Typewriter-Stands, Filing-Service Safes, One and Two Drawer Card-Cases, Card-Cabinets, Card-Trays, Steel Boxes for Holding Bonds and Other Like Commercial Papers, Desk-Trays, Document-Cases, Transfer-Cases, Storage-Cases, Box-Drawer Cases; Stationery Cupboards, Lockers, and Shelving, and Cell Appurtenances—Namely, Canvas Bunks and Steel Bunks.
Claims use since Aug. 2, 1918.

Ser. No. 127,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ARON & COMPANY, INC., New York, N. Y. Filed Feb. 3, 1920.

ARON

Particular description of goods.—Canned Fruits and Canned Fish.
Claims use since about Jan. 15, 1919.

Ser. No. 127,952. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WISCONSIN CANDY CO., Stevens Point, Wis. Filed Feb. 3, 1920.

Courtship

Particular description of goods.—A Line of Fancy Hand-Dipped Chocolates in Boxes.
Claims use since Aug. 25, 1919.

Ser. No. 128,075. (CLASS 39. CLOTHING.) BROWN-SHOE COMPANY, INC., St. Louis, Mo. Filed Feb. 7, 1920.

BONE DRY

Particular description of goods.—Men's Shoes Made of a Combination of Leather, Canvas, and Rubber Material.
Claims use since July 30, 1917.

Ser. No. 128,129. (CLASS 39. CLOTHING.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed Feb. 7, 1920.

Snugwrap

Particular description of goods.—One-Piece Garment With Hood Attached Made of Elderdown, Polo-Cloth, or Like Material for Infants' Outdoor Wear.
Claims use since September, 1914.

Ser. No. 128,200. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BURCH PLOW WORKS COMPANY, Crestline, Ohio. Filed Feb. 10, 1920.

PULVO-PACKER

Particular description of goods.—Soil-Pulverizers.
Claims use since Dec. 24, 1919.

Ser. No. 128,286. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) VIBRATION SPECIALTY COMPANY, Philadelphia, Pa. Filed Feb. 11, 1920.

MA

Particular description of goods.—Testing-Machinery Used in the Investigation of Vibratory Motion and Appliances Used in Connection Therewith.
Claims use since Feb. 12, 1918.

Ser. No. 128,413. (CLASS 32. FURNITURE AND UPHOLSTERY.) STANDARD WOODWORK CO., Cleveland, Ohio. Filed Feb. 14, 1920.

SANITABLE

Particular description of goods.—Cribs and Kitchen-Tables.
Claims use since July 31, 1919.

Ser. No. 128,522. (CLASS 7. CORDAGE.) ROCKFORD MANUFACTURING COMPANY, Rockford, Tenn. Filed Feb. 17, 1920.

ROCCO

Particular description of goods.—Twine and Tufts Used in Tying Bed-Mattresses and Similar Articles.
Claims use since 1913.

Ser. No. 128,539. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ABRAHAM J. BERG, New York, N. Y. Filed Feb. 18, 1920.

ARROW TRADE MARK CALCULATOR

No claim being made to the words "Trade Mark" and "Calculator" apart from the mark shown in the drawing.
Particular description of goods.—Calculating-Machines.
Claims use since Sept. 1, 1919.

Ser. No. 128,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NICKEL PLATE ELEVATOR CO., Cleveland, Ohio. Filed Feb. 19, 1920.

ECONOMY

Particular description of goods.—Poultry and Stock Feed Including Mixed Grain Known as Scratch or Scratching Feed for Poultry, Meat-Scraps for Poultry, Ground Mixed Grain Known as Mash Feed for Poultry, Digester-Tankage, Horse Feed, Chop Feed, Hog Feed, and Dairy Feed.
Claims use since Jan. 1, 1911.

Ser. No. 128,615. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NOVELTY INCANDESCENT LAMP COMPANY, Emporium, Pa. Filed Feb. 19, 1920.

NILCO

Particular description of goods.—Incandescent Electric Lamps.
Claims use since Jan. 1, 1916.

Ser. No. 128,617. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RALSTON PURINA COMPANY, St. Louis, Mo. Filed Feb. 19, 1920.

GRAINOLA

Particular description of goods.—Stock Feed.
Claims use since Dec. 1, 1915.

Ser. No. 128,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. M. COSBY FLOUR & GRAIN CO., Birmingham, Ala. Filed Feb. 20, 1920.

BIG FLOW

Particular description of goods.—Dairy Feed.
Claims use since Dec. 20, 1919.

Ser. No. 128,709. (CLASS 39. CLOTHING.) M. E. SMITH & CO., INC., Omaha, Nebr. Filed Feb. 20, 1920.

THEMIS

Particular description of goods.—Hosiery of All Kinds.
Claims use since Dec. 12, 1919.

Ser. No. 128,748. (CLASS 39. CLOTHING.) MORRIS WEISS, New York, N. Y. Filed Feb. 21, 1920.

Weiss DRESS SHOP

The name "Weiss" on said trade-mark is the signature of applicant's wife. The initials "M. W." above the word "Weiss" are applicant's initials. Applicant disclaims any trade-mark in the words "Dress Shop" except when used in connection with the word "Weiss," as shown in the drawing.
Particular description of goods.—Ladies' Dresses, Suits, and Wraps.
Claims use since June 1, 1913.

Serial No. 128,830. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY A. COHEN, St. Louis, Mo. Filed Feb. 24, 1920.

COHMADE

Particular description of goods.—Candies, Sugar-Roasted Peanuts, Jellies.
Claims use since February, 1918.

Ser. No. 128,832. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) IRVING L. DAVIS, Dayton, Ohio. Filed Feb. 24, 1920.

ORANGE-ADE

Particular description of goods.—Beverages Consisting of Non-Alcoholic, Non-Cereal, and Maltless Beverages Sold as Soft Drinks.
Claims use since July 1, 1919.

Ser. No. 128,846. (CLASS 17. TOBACCO PRODUCTS.) KING CIGAR COMPANY, Leaksville, N. C. Filed Feb. 24, 1920.

TWILIGHT

Particular description of goods.—Cigars.
Claims use since Nov. 1, 1919.

Ser. No. 128,869. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEATTLE BAKING COMPANY, Seattle, Wash. Filed Feb. 24, 1920.

QUEENANN

The lines in the drawing being intended for shading and not for the color red.
Particular description of goods.—Cake, Bread, Doughnuts, and Cookies.
Claims use since Feb. 1, 1920.

Ser. No. 128,952. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUGUST BUSCHMANN & SONS, INC., Indianapolis, Ind. Filed Feb. 27, 1920.

AUGUST BUSCHMANN & SONS INC. B

Particular description of goods.—Water-Closets and Plumbing Accessories Therefor; Closet Tanks, Seats, and Bowls; Urinals and Urinal Tanks, Drinking-Fountains, Laundry-Trays, Shower-Baths, Iron and Steel Piping and Pipe-Fittings, Metal Soil-Pipe and Fittings Therefor; Lead and Brass Plumbing Goods Consisting of Traps, Ferrules, Bends, Nipples, Wastes, Plugs, and Valves; Pipe Clamps, Hangers, and Saddles; Bathtub and Shower-Bath Plumbing-Fittings, Sink Plumbing-Fittings, Plumbing-Valves, and Enamel Ware Comprising Bathtubs, Foot-Baths, Lavatories, Sinks, Sink-Backs, Drain-Bowls, and Basins.
Claims use since June, 1918.

Ser. No. 129,015. (CLASS 39. CLOTHING.) KOPS BROS., New York, N. Y. Filed Feb. 28, 1920.

DIAFRAM

Particular description of goods.—Corsets and Brassières.
Claims use since Feb. 1, 1920.

Ser. No. 129,027. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) STANDARD BREWING CO., New Orleans, La. Filed Feb. 28, 1920.

275

Particular description of goods.—A Malt Cereal Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Feb. 21, 1920.

Ser. No. 129,064. (CLASS 39. CLOTHING.) JACOBSON BROS., New York, N. Y. Filed Mar. 1, 1920.

B

Particular description of goods.—Boots Made of Leather, Boots Made of Leather and Fabric, Rubber Boots, Rubbers, Shoes Made of Leather, Shoes Made of Leather and Fabric, Pumps Made of Leather, Pumps Made of Leather and Fabric, Slippers Made of Leather, Slippers Made of Leather and Fabric, Slippers Made of Fabric, and Gaiters Made of Fabric.
Claims use since Sept. 10, 1917.

Ser. No. 129,193. (CLASS 39. CLOTHING.) W. E. TILLOTSON MANUFACTURING COMPANY, Pittsfield, Mass. Filed Mar. 3, 1920. Under ten-year proviso.

C

Particular description of goods.—Knitted Underwear for Adults and Children, Consisting of Two-Piece Garments.
Claims use since prior to Jan. 1, 1895.

Ser. No. 129,292. (CLASS 39. CLOTHING.) THE SQUEEGEE HEEL COMPANY, Cleveland, Ohio. Filed Mar. 5, 1920.

S

Particular description of goods.—Rubber Heels.
Claims use since Nov. 19, 1918.

Ser. No. 129,293. (CLASS 39. CLOTHING.) THE SQUEEGEE HEEL COMPANY, Cleveland, Ohio. Filed Mar. 5, 1920.

SQUEEGEE

Particular description of goods.—Rubber Heels.
Claims use since Nov. 19, 1918.

Ser. No. 129,305. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CARLISLE TIRE & RUBBER COMPANY, Dover, Del., and Carlisle, Pa. Filed Mar. 6, 1920.

CARMOJON

Particular description of goods.—Rubber Tires and Tubes for Vehicles.
Claims use since January, 1918.

Ser. No. 129,391. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILLIAM A. KELSEY, Minneapolis, Minn. Filed Mar. 8, 1920.

WAKTASSI

Particular description of goods.—Dental Tools.
Claims use since Nov. 1, 1919.

Ser. No. 129,419. (CLASS 39. CLOTHING.) SCHOTT BROTHERS, New York, N. Y. Filed Mar. 8, 1920.

Miss Winnie

The letters of the trade-mark are printed in blue and bordered in gold, and the scroll inclosing the lettering is bordered in gold, and the leaves shown are printed in blue and bordered in gold, as indicated by the conventional shading of the drawing.
Particular description of goods.—Children's and Misses' Hosiery and Children's and Misses' Knitted Underwear Consisting of Vests, Pants, and Union-Suits.
Claims use since Jan. 7, 1918.

Ser. No. 129,420. (CLASS 39. CLOTHING.) SCHOTT BROTHERS, New York, N. Y. Filed Mar. 8, 1920.

Lady Winnie

The letters of the trade-mark are printed in blue and bordered in gold, and the scroll inclosing the lettering is bordered in gold, and the leaves shown are printed in blue and bordered in gold.
Particular description of goods.—Ladies' Hosiery and Ladies' Knitted Underwear Consisting of Vests, Pants, and Union-Suits.
Claims use since Jan. 7, 1918.

Ser. No. 129,501. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE CANNING COMPANY, Eastport, Me. Filed Mar. 10, 1920.

NORVA

Particular description of goods.—Canned Sardines.
Claims use since July 11, 1919.

Ser. No. 129,507. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN R. KIRKPATRICK, Jr., Atlanta, Ga. Filed Mar. 10, 1920.

KIRK-O

Particular description of goods.—A Liquid Composition for Use on Glass Surfaces to Keep Them Clear.
Claims use since Nov. 15, 1919.

Ser. No. 129,542. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELLIS COFFEE IMPORTING COMPANY, Philadelphia, Pa. Filed Mar. 11, 1920.

Tastbest

Particular description of goods.—Tea, Coffee, Rice, Peanuts, and Cocoa.
Claims use since January, 1916.

Ser. No. 129,555. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LANGERT ARONSON CANDY COMPANY, Seattle, Wash. Filed Mar. 11, 1920.

OKEH



The horizontal and vertical lines within the circle and surrounding the fanciful representation of an Indian's head are for the purpose of shading only and do not indicate any color.
Particular description of goods.—Candied Nuts, Shelled Nuts, Both Salted and Unsalted, and Nuts in Their Natural State.
Claims use since Feb. 24, 1920.

Ser. No. 129,581. (CLASS 39. CLOTHING.) WILKIN & ADLER, New York, N. Y. Filed Mar. 11, 1920.

FLEXTILE

Consisting of the word "Flextile."
Particular description of goods.—Ladies' Cloaks, Suits, and Dress and Outer Skirts.
Claims use since Mar. 6, 1920.

Ser. No. 129,584. (CLASS 39. CLOTHING.) LAYER CLEVELAND, Mansfield, Ohio. Filed Mar. 12, 1920.

Cleveland Brand
Double Wear
(180)

No claim is made for the surname "Cleveland" and descriptive term "Brand" apart from its association with the word-symbols, drawing, and design shown and associated therewith.
Particular description of goods.—Fabric Gloves.
The trade-mark "Double Wear" has been continuously used in my business since the 30th day of November, 1911, and the mark number "180" has been used in my business since the 30th day of November, 1911. That portion of the mark consisting of the emblem has been used in my business since the 1st day of March, 1920. The word-symbols "Cleveland Brand" have been used in my business since Jan. 1, 1915.

Ser. No. 129,615. (CLASS 39. CLOTHING.) WEIL & WEIL, Inc., New York, N. Y. Filed Mar. 12, 1920.



Particular description of goods.—Ladies' Waists and Blouses for Outer Wear.
Claims use since January, 1907.

Ser. No. 129,683. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY Inc., New York, N. Y. Filed Mar. 13, 1920.

CHECOTAH

Particular description of goods.—Corn-Flour, Corn-Grits, and Cornmeal.
Claims use since Aug. 19, 1919.

Ser. No. 129,887. (CLASS 39. CLOTHING.) THE FUTURIST COMPANY, Chicago, Ill. Filed Mar. 18, 1920.

Athlon

Particular description of goods.—Men's, Women's, and Children's Underwear—Namely, One, Two, and Three Piece Garments of Textile Fabrics.
Claims use since Feb. 26, 1920.

Ser. No. 129,956. (CLASS 25. LOCKS AND SAFES.) HARRY S. WATERMAN, San Francisco, Calif. Filed Mar. 19, 1920.



HERCULES

No claim is made to the representation of the lock apart from the mark shown.
Particular description of goods.—Automobile Theft-Locks. (Wheel, Rim, and Tire-Engaging Type.)
Claims use since Jan. 1, 1920.

Ser. No. 129,982. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LYSTER CHEMICAL COMPANY, New York, N. Y. Filed Mar. 20, 1920.

KOLA

Particular description of goods.—Non-Alcoholic Soft Drink Consisting of an Extract of Coca Decocainized and Kola and Flavored With Fruit-Jufee and Essential Oils and Containing Only Eleven-Eightieths Per Cent. Alcohol.
Claims use since June 7, 1919.

Ser. No. 129,990. (CLASS 39. CLOTHING.) ELY STROOCK, New York, N. Y. Filed Mar. 20, 1920.



No claim being made to the words "Theatrical Costumers."

Particular description of goods.—Men's and Women's Apparel—Namely, Uniforms, Costumes, Suits, Overcoats, Wraps, Cloaks, Capes, Dresses, Blouses, Hats, Caps; Cotton, Woolen, and Silk Underwear of One and Two Pieces; Hosiery, Leather and Fabric Gloves, Collars, Neckties, Cravats, and Neckscarfs, Boots and Shoes.

Claims use since about Jan. 1, 1920.

Ser. No. 130,073. (CLASS 39. CLOTHING). TODD, KAY AND MONDSHEIN, New York, N. Y. Filed Mar. 22, 1920.



BEAUXARTS DRESSES

No claim being made to the exclusive use of the word "Dresses" apart from the mark shown in the drawing.

Particular description of goods.—Dresses in One and Two Piece Garments.

Claims use since Feb. 15, 1920.

Ser. No. 130,088. (CLASS 31. FILTERS AND REFRIGERATORS.) HARRY CLEGG, Manchester, England. Filed Mar. 23, 1920.

CONIFER

Particular description of goods.—Cakes of Pulped Cotton Fiber for Filtering Purposes.

Claims use since July 24, 1919.

Ser. No. 130,150. (CLASS 39. CLOTHING.) OPPENHEIM, OBERNDORF & CO. INC., Baltimore, Md. Filed Mar. 24, 1920.



No claim being made to the exclusive use of the words "Pre-Laundried Fabric, Double-Sewed and Reinforced Undersuit, Fresh from Laundry to You, Elastic Non-Binding Back, Patent Pending, Rip Proof Side Opening Blouse Seat, Bloomer Elastic Legs, Patent Pending, Guaranteed by, You Can also Get, for Little Boys," apart from the mark as shown in the drawing.

Particular description of goods.—Juvenile Undershirts, Drawers, Union-Suits, Night-Robes, and Pajamas Made from Textile Fabrics.

Claims use since January, 1919.

Ser. No. 130,151. (CLASS 39. CLOTHING.) OPPENHEIM, OBERNDORF & CO. INC., Baltimore, Md. Filed Mar. 24, 1920.



The lining in the drawing merely representing shading and no claim being made to the exclusive use of the words "Athletic Underwear for Every Woman Bodice Model Just as Comfortable as Brother's Each Garment in a Dust-Proof Sanitary Container Fresh from the Laundry to You" apart from the mark as shown in the drawing.

Particular description of goods.—Adults' Undershirts, Drawers, Union-Suits, Night-Robes, and Pajamas Made of Textile Fabrics.

Claims use since May, 1917.

Ser. No. 130,152. (CLASS 39. CLOTHING.) OPPENHEIM, OBERNDORF & Co. INC., Baltimore, Md. Filed Mar. 24, 1290.



The hair-ribbon on the head of the little girl being in red and no claim being made to the exclusive use of the words "Pre-Laundried Fabric Double Sewed and Reinforced Undersuit Fresh from Laundry to You Double Seat for Double Wear Patent Pending Elastic Non-Binding

Back Band Rip Proof Side Opening Patent Pending Guaranteed by You can also get for Little Girls" apart from the mark as shown in the drawing.

Particular description of goods.—Juvenile Undershirts, Drawers, Union-Suits, Night-Robes, and Pajamas Made from Textile Fabrics.

Claims use since January, 1919.

Ser. No. 130,215. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN CO., Passaic, N. J. Filed Mar. 26, 1920.

Dianora

Consisting of the word "Dianora."

Particular description of goods.—Woolen Piece Goods.

Claims use since Feb. 15, 1920.

Ser. No. 130,225. (CLASS 39. CLOTHING.) JULIUS LEVY SONS CO., Memphis, Tenn. Filed Mar. 26, 1920.



Particular description of goods.—Dress, Negligée, and Work Shirts, Overalls, and Cotton Collars for Men and Boys and Underwear of One and Two Piece Garments of Knitted, Netted, or Textile Fabrics for Men, Women, and Children.

Claims use since July 1, 1910.

Ser. No. 130,226. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JULIUS LEVY SONS CO., Memphis, Tenn. Filed Mar. 26, 1920.



In the drawing the fanciful design and shading to the words are lined for yellow, indicating a yellow or gold coloration.

Particular description of goods.—Cotton Piece Goods, Bedspreads, Ginghams, Percales, Outings, Canton-Flannel in the Piece, Domestics, (Bleached and Brown,) Sometimes Called Bleached Sheetings When They are Bleached and Brown or Unbleached Sheetings When They Come in the Original Color Before Bleaching.

Claims use since July 1, 1910.

Ser. No. 130,227. (CLASS 39. CLOTHING.) JULIUS LEVY SONS CO., Memphis, Tenn. Filed Mar. 26, 1920.



Particular description of goods.—Dress, Negligée, and Work Shirts, and Pants for Men and Boys and Underwear of One and Two Piece Garments of Knitted, Netted, or Textile Fabric and Hosiery for Men, Women, and Children.

Claims use since July 1, 1910.

Ser. No. 130,290. (CLASS 39. CLOTHING.) HENRY REECE, New York, N. Y. Filed Mar. 27, 1920.



The portrait shown on the drawing being fanciful and no claim being made to the exclusive use of the word "Dresses" apart from the mark as shown in the drawing.

Particular description of goods.—Misses' and Ladies' Dresses in One and Two Piece Garments.

Claims use since Jan. 4, 1920.

Ser. No. 130,300. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TAYLOR BROS., Camden, N. J. Filed Mar. 27, 1920.



No claim being made to the exclusive use of the words "Spark Plug" apart from the mark as shown in the drawing.

Particular description of goods.—Automobile Accessories—viz., Spark-Plugs.

Claims use since Feb. 15, 1920.

Ser. No. 130,317. (CLASS 38. PRINTS AND PUBLICATIONS.) SIMON BLUM, New York, N. Y. Filed Mar. 29, 1920.



Particular description of goods.—House Organ.

Claims use since Mar. 19, 1926.

Ser. No. 130,343. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SOSS MANUFACTURING CO., Brooklyn, N. Y. Filed Mar. 29, 1920.

SOSS

Particular description of goods.—Hinges, Handles for Automobiles and other Doors, Bumpers for Doors and Door-Stops, Plumbing-Elbows, Faucets, Flush-Tank Valves, Washbowls and Stoppers Therefor, and Window Rollers, Weights, and Chains.
Claims use since 1915.

Ser. No. 130,354. (CLASS 39. CLOTHING.) BUSBY GLOVE CO., Oakland, Calif. Filed Mar. 30, 1920.

AJAX

Particular description of goods.—Gloves and Mittens Made Partly or Wholly of Leather.
Claims use since July 1, 1908.

Ser. No. 130,393. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY WARREN SHEPARD, National City, Calif. Filed Mar. 30, 1920.

Figette-me-not

Particular description of goods.—Prepared, Canned, Dried, or Otherwise-Treated Figs.
Claims use since about Mar. 1, 1920.

Ser. No. 130,414. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLDEN STATE PRODUCTS COMPANY, San Francisco, Calif. Filed Mar. 31, 1920.



No claim being made to the words "Grape Syrup."
Particular description of goods.—Table-Syrup.
Claims use since Mar. 10, 1920.

Ser. No. 130,474. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE & KNIFE COMPANY, Pittsburgh, Pa. Filed Apr. 1, 1920.

BARDO

Particular description of goods.—Steel.
Claims use since Jan. 16, 1920.

Ser. No. 130,570. (CLASS 39. CLOTHING.) BENJAMIN & JOHNES, Newark, N. J. Filed Apr. 3, 1920.

Poirette

Particular description of goods.—Corsets, Brassières, and Women's Underwear of Knitted or Textile Fabrics.
Claims use since Jan. 29, 1920.

Ser. No. 130,610. (CLASS 38. PRINTS AND PUBLICATIONS.) PALMER PHOTOPLAY CORPORATION, Los Angeles, Calif. Filed Apr. 3, 1920.



Particular description of goods.—Prints and Publications—Namely, Books, Pamphlets, Brochures, Lectures in Printed and Written Form, Letters, and Motion-Picture Scenarios Issued from Time to Time.
Claims use since Dec. 1, 1919.

Ser. No. 130,626. (CLASS 38. PRINTS AND PUBLICATIONS.) STAR COMPANY, New York, N. Y. Filed Apr. 3, 1920.

The Spectator

Particular description of goods.—Newspaper-Section.
Claims use since Feb. 25, 1920.

Ser. No. 130,636. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WRIGHT-AUSTIN COMPANY, Detroit, Mich. Filed Apr. 3, 1920.



Particular description of goods.—Steam-Traps, Air-Traps, Steam-Separators, Oil-Separators, Air-Separators, Strainers, Boiler-Feed Regulators, Pump-Governors, and Exhaust-Heads.
Claims use since Dec. 1, 1919.

Ser. No. 130,637. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN CABINET MANUFACTURING CORPORATION, Newport News, Va. Filed Apr. 5, 1920.



The word "Phonograph" is disclaimed except when used in association with other features of the mark.
Particular description of goods.—Phonographs.
Claims use since Feb. 6, 1920.

Ser. No. 130,642. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERRY W. BROWNING, Washington, D. C. Filed Apr. 5, 1920.

Chesterfield

Particular description of goods.—Coffee.
Claims use since February, 1920.

Ser. No. 130,664. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. ENGELHARD & SONS COMPANY, Louisville, Ky. Filed Apr. 5, 1920.

CORICA

Particular description of goods.—Foods and Food Ingredients—Namely, Coffees.
Claims use since Mar. 1, 1902.

Ser. No. 130,667. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. ENGELHARD & SONS COMPANY, Louisville, Ky. Filed Apr. 5, 1920.

GRANDMA'S CUP

Particular description of goods.—Foods and Food Ingredients—Namely, Coffees.
Claims use since Mar. 1, 1902.

Ser. No. 130,683. (CLASS 11. INKS AND INKING MATERIALS.) THE MILLER-BRYANT-PIERCE COMPANY, Aurora, Ill. Filed Apr. 5, 1920.



No claim is made to the words "The Miller Line is Superfine" apart from the mark shown in the drawing.
Particular description of goods.—Inked Ribbons and Carbon-Papers.
Claims use since Feb. 25, 1920.

Ser. No. 130,726. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MANNING ABRASIVE CO. INC., Troy, N. Y. Filed Apr. 6, 1920.

Manning
Speed-grits



Particular description of goods.—Abrasives Coated on Cloth or Paper, or Both.
Claims use since Mar. 24, 1920.

Ser. No. 130,732. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD T. RUSSELL & CO., INC., Boston, Mass. Filed Apr. 6, 1920.

HOUSE FLAG

Particular description of goods.—Canned Sardines.
Claims use since April, 1916.

Ser. No. 130,743. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN TAP AND DIE CO., Greenfield, Mass. Filed Apr. 7, 1920.



No claim being made to the exclusive use of the representation of the tap and die excepting in connection with other features of the trade-mark as shown.
Particular description of goods.—Metal-Working Tools—Namely, Taps, Dies, and Screw-Plates.
Claims use since on or about Sept. 9, 1905.

Ser. No. 130,760. (CLASS 39. CLOTHING.) HOLEPROOF HOSIERY CO., Milwaukee, Wis. Filed Apr. 7, 1920.

Holeproof

Consists of the word "Holeproof."
Particular description of goods.—Hosiery.
Claims use since 1898.

Ser. No. 130,820. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALBERT C. FISCHER, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words "Look for it on all Purchases."

Particular description of goods.—Mineral Wool, Talc, Raw Asbestos, Asbestos Fiber, Vegetable Fiber, Gravel, and Ground Slate.

Claims use since Feb. 1, 1916.

Ser. No. 130,821. (CLASS 4, ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALBERT C. FISCHER, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words, "Look for it on all Purchases."

Particular description of goods.—Shaving-Powder, Shaving-Soap, Shaving-Paste, Auto-Soap, Toilet Soap, Steel-Wool, Shoe-Polish.

Claims use since Feb. 1, 1916.

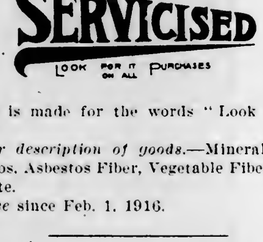
Ser. No. 130,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELMER CANDY CO., INC., New Orleans, La. Filed Apr. 9, 1920.

Elmer's
JUSTNUTS

Particular description of goods.—Candy.

Claims use since Sept. 1, 1919.

Ser. No. 130,991. (CLASS 39. CLOTHING.) SPIEGEL WAIST CO., INC., New York, N. Y. Filed Apr. 10, 1920.

MIRROR

BLOUSES

Said Spiegel Waist Co. Inc. hereby disclaims registration of the word "Blouses" as part of the mark shown on the accompanying drawing.

Particular description of goods.—Ladies' Waists and Blouses.

Claims use since Nov. 15, 1919.

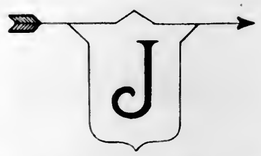
Ser. No. 131,075. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE HENKEL-CLAUSS CO., Fremont, Ohio. Filed Apr. 13, 1920. Under ten-year proviso.

Clauss

Particular description of goods.—Manicure, Pedicure, and Surgical Implements.

Claims use since about 1889.

Ser. No. 131,113. (CLASS 27. HOROLOGICAL INSTRUMENTS.) C. I. JOSEPHSON, Moline, Ill. Filed Apr. 14, 1920.



Particular description of goods.—Watches.

Claims use since on or about Dec. 1, 1912.

Ser. No. 131,135. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRIPPE, BARKER & CO., New York, N. Y. Filed Apr. 14, 1920.

CHARMEUSETTE

Particular description of goods.—Warp Sateen, Piece Goods for Lingerie.

Claims use since about Dec. 9, 1919.

Ser. No. 131,160. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ETERNA WATCH WORKS, Grenchen, Switzerland. Filed Apr. 15, 1920.

ETERNA

Particular description of goods.—Watches, Clocks, Pendulets, and Electric Clocks and Parts Thereof, and Especially Watch-Movements, Watchcases, Watch-Dials.

Claims use since Nov. 11, 1905.

Ser. No. 131,162. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FLORIDA FRUIT JUICE CO., INC., New York, N. Y. Filed Apr. 15, 1920.

"The Limit"

Consisting of the words "The Limit."

Particular description of goods.—An Extract for the Manufacture of a Non-Alcoholic Beverage Sold as a Soft Drink.

Claims use since Apr. 5, 1920.

Ser. No. 131,268. (CLASS 37. PAPER AND STATIONERY.) THE JOHN HOBERG CO., Green Bay, Wis. Filed Apr. 17, 1920.

CORAL

Particular description of goods.—Toilet-Paper.

Claims use since June 15, 1915.

Ser. No. 131,340. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LARKIN CO., Buffalo, N. Y. Filed Apr. 19, 1920.

LARCO

Particular description of goods.—Electric Vacuum-Cleaners and Automobile Spark-Plugs.

Claims use since Aug. 21, 1919.

Ser. No. 131,344. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEBRASKA & IOWA MERCANTILE CO., Omaha, Nebr. Filed Apr. 19, 1920.

HY-TONE

Particular description of goods.—Canned Fruits and Coffees.

Claims use since July 1, 1919.

Ser. No. 131,345. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEBRASKA & IOWA MERCANTILE CO., Omaha, Nebr. Filed Apr. 19, 1920.

NIM-KO

Particular description of goods.—Canned Fruits, Coffees, and Jelly-Powders.

Claims use since July 1, 1919.

Ser. No. 131,405. (CLASS 39. CLOTHING.) SURE FIT DRESS CO., Philadelphia, Pa. Filed Apr. 20, 1920.

H ALTD H

Particular description of goods.—Dresses.

Claims use since Mar. 20, 1920.

Ser. No. 131,412. (CLASS 15. OILS AND GREASES.) UNITED PETROLEUM PRODUCTS CO., San Francisco, Calif. Filed Apr. 20, 1920.

DOMINION

Particular description of goods.—Lubricants Consisting of Oils and Greases.

Claims use since May 15, 1914.

Ser. No. 131,414. (CLASS 38. PRINTS AND PUBLICATIONS.) VANITY FAIR STUDIOS, INC., Philadelphia, Pa. Filed Apr. 20, 1920.

"Vanity Fair"

Consisting of the words "Vanity Fair."

Particular description of goods.—Photographs.

Claims use since Dec. 1, 1919.

Ser. No. 131,496. (CLASS 31. FILTERS AND REFRIGERATORS.) MCKEE REFRIGERATOR COMPANY, Brooklyn, N. Y. Filed Apr. 22, 1920. Under ten-year proviso.

McKEE

Particular description of goods.—Refrigerators and Ice-Boxes.

Claims use since 1880.

Ser. No. 131,508. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. E. SCHOENING CO. INC., New York, N. Y. Filed Apr. 22, 1920.

THE  STAG

Particular description of goods.—Musical-Instrument Strings.

Claims use since 1895.

Ser. No. 131,538. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHARD H. PHILLIPS, New York, N. Y. Filed Apr. 23, 1920.

SORREL

Particular description of goods.—Non-Alcoholic Beverages Sold as a Soft Drink.

Claims use since June, 1919.

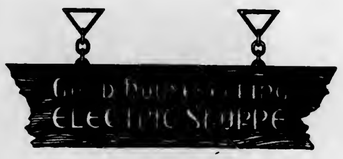
Ser. No. 131,619. (CLASS 39. CLOTHING.) THE AMERICAN BEAUTY DRESS MFG. CO., INC., St. Louis, Mo. Filed Apr. 26, 1920.

AMERICAN BEAUTY

Particular description of goods.—Ladies', Misses', and Children's Dresses.

Claims use since Mar. 1, 1920.

Ser. No. 131,634. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GOOD HOUSEKEEPING ELECTRIC SHOPPE, Minneapolis, Minn. Filed Apr. 26, 1920.



Particular description of goods.—Electric Vacuum-Cleaners, Electric Sewing-Machines, and Electric Dish-Washers.
Claims use since Mar. 28, 1920.

Ser. No. 131,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHWARTZ & FERRY, New Orleans, La. Filed Apr. 26, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since July 19, 1919.

Ser. No. 131,673. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHWARTZ & FERRY, New Orleans, La. Filed Apr. 26, 1920.

MERRYMAKER

Particular description of goods.—Wheat-Flour.
Claims use since July 19, 1919.

Ser. No. 131,690. (CLASS 15. OILS AND GREASES.) AMERICAN PRODUCTS CORPORATION, Boston, Mass. Filed Apr. 27, 1920.

LUBRIBESTOS

The word "Lubribestos."
Particular description of goods.—Lubricating-Greases.
Claims use since June 5, 1919.

Ser. No. 131,711. (CLASS 39. CLOTHING.) MERRILL SILK COMPANY, Hornell and New York, N. Y. Filed Apr. 27, 1920.

Merrillswade

Particular description of goods.—Fabric Gloves.
Claims use since June, 1916.

Ser. No. 131,786. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EASTERN HAIR NET TRADING CO., New York, N. Y. Filed Apr. 29, 1920.

Geraldina
"Double Wear"

Consisting of the words "Geraldina 'Double Wear'," no claim being made to the exclusive use of the words "Double Wear" apart from the mark as shown in the drawing, and the lining in the drawing merely representing shading.
Particular description of goods.—Hair-Nets.
Claims use since Jan. 1, 1920.

Ser. No. 131,792. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARTMANN PACIFIC COMPANY, INC., New York, N. Y. Filed Apr. 29, 1920.



The words "Hair Net" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Hair-Nets.
Claims use since Apr. 18, 1920.

Ser. No. 131,823. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NADAY & FLEISCHER, INC., New York, N. Y. Filed Apr. 29, 1920.

FERONETTE

Shown in the accompanying drawing consisting of the word "Feronette."
Particular description of goods.—Artificial-Silk Piece Goods.
Claims use since Apr. 22, 1920.

Ser. No. 131,846. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN GROCER COMPANY, Marshalltown, Iowa. Filed Apr. 29, 1920.



Particular description of goods.—Canned Beets, Canned Sweet Potatoes, Canned Spinach, Canned Hominy, Canned Succotash, Canned Peaches, Canned Plums, Canned Pears, Canned Apricots, Canned Cherries, Canned Strawberries, Canned Raspberries, Canned Blackberries, Canned Loganberries, Canned Gooseberries, Canned Pineapples, Canned Oysters, Rice, Cocoanut, Tapioca, Powdered Sugar, Tea, and Spices.
Claims use since Mar. 11, 1918.

Ser. No. 131,893. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Apr. 30, 1920.

AERZONATOR

Particular description of goods.—Deodorizing Devices.
Claims use since April, 1918.

Ser. No. 131,906. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KROWER-TYNBERG CO. INC., New York, N. Y. Filed May 1, 1920.

IRRESISTABLE

Consisting of the word "Irrésistable," the lining on the drawing merely representing shading.
Particular description of goods.—Cotton and Silk Piece Goods and Mixtures of the Same and Linen and Artificial-Silk Piece Goods.
Claims use since Mar. 25, 1920.

Ser. No. 131,995. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM HERBERT WOODARD, Wilson, N. C. Filed May 3, 1920.

"IT'S THE KISS WITH A SMACK"

Particular description of goods.—Confectionery—Namely, Candy Kisses.
Claims use since July, 1919.

Ser. No. 132,025. (CLASS 15. OILS AND GREASES.) PITTSBURGH OIL REFINING CORPORATION, Baltimore, Md. Filed May 4, 1920.

PITTROIL

Particular description of goods.—Lubricating-Oils, Such as Steam-Engine Oil, Steam-Cylinder Oil, Air-Compressor Oil, Dynamo-Oil, Automobile-Oil, and Tractor-Oil, and Lubricating-Greases, such as Cup-Grease and Transmission-Grease.
Claims use since Oct. 1, 1919.

Ser. No. 132,066. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIMON & MENDELSOHN, New York, N. Y. Filed May 5, 1920.

Humming Bird Crepe

Consisting of the words "Humming Bird Crepe," no claim being made to the exclusive use of the word "Crepe" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since March, 1920.

Ser. No. 132,072. (CLASS 15. OILS AND GREASES.) THE AKRON OIL REFINING COMPANY, Akron, Ohio. Filed May 6, 1920.

QUICK-START

Particular description of goods.—Gasolene.
Claims use since May 1, 1919.

Ser. No. 132,119. (CLASS 15. OILS AND GREASES.) STERNS, LIMITED, London, England. Filed May 6, 1920.

AMBROLEUM

Particular description of goods.—Lubricating Oils and Greases.
Claims use since February, 1909.

Ser. No. 132,220. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.

HOG LASSES

Particular description of goods.—Stock Feed.
Claims use since Oct. 8, 1918.

Ser. No. 132,227. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFOCORN MILLING COMPANY, St. Louis, Mo. Filed May 10, 1920.

ALFA-OATS

Particular description of goods.—Stock Feed.
Claims use since May 26, 1917.

Ser. No. 132,287. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio. Filed May 11, 1920.

Buckeye POULTRY Feed

No claim is made for the words "Poultry" and "Feed" apart from the mark in the drawing.
Particular description of goods.—Poultry Food.
Claims use since Sept. 6, 1919.

Ser. No. 132,321. (CLASS 15. OILS AND GREASES.) PUENTE OIL COMPANY, Los Angeles, Calif. Filed May 11, 1920.

TRACTO-RITE

Particular description of goods.—Lubricating-Oils.
Claims use since December, 1919.

Ser. No. 132,407. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed May 13, 1920.

SALT'S

Consists of the word "Salt's."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since 1884.

Ser. No. 132,411. (CLASS 11. INKS AND INKING MATERIALS.) SIGMUND ULLMAN COMPANY, New York, N. Y. Filed May 13, 1920.

MAYFLOWER

Particular description of goods.—Printing-Inks.
Claims use since about July 18, 1919.

Ser. No. 132,495. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y. Filed May 15, 1920.

TORPEDO

Particular description of goods.—Babbitt Metal.
Claims use since Dec. 18, 1918.

Ser. No. 132,635. (CLASS 37. PAPER AND STATIONERY.) GILBERT PAPER COMPANY, Menasha, Wis. Filed May 19, 1920.

Dreadnaught

Particular description of goods.—Bond-Paper for Writing and Printing Purposes.
Claims use since Mar. 17, 1920.

Ser. No. 132,643. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JERSEY SILK MILLS, New York, N. Y., and Plainfield, N. J. Filed May 19, 1920.

TRUHU

Particular description of goods.—Broad Silks in the Piece.
Claims use since Mar. 30, 1920.

Ser. No. 132,680. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN TEXTILE PRODUCTS COMPANY, Rochester, N. Y. Filed May 20, 1920.

ARROW

Particular description of goods.—Garters and Hose-Supporters.
Claims use since May 7, 1920.

Ser. No. 132,690. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DORA P. GLEASON, Cincinnati, Ohio. Filed May 20, 1920.

WATER-MAID

Particular description of goods.—A Device for Waving the Hair Upon the Human Head.
Claims use since July, 1916.

Ser. No. 132,710. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed May 20, 1920.

THIO

Particular description of goods.—Cutting-Oil.
Claims use since Feb. 1, 1920.

Ser. No. 132,714. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed May 20, 1920.

HOMELIKE

Particular description of goods.—Cakes.
Claims use since May 11, 1920.

Ser. No. 132,746. (CLASS 12. CONSTRUCTION MATERIALS.) CARL B. KRAUS, Omaha, Nebr. Filed May 21, 1920.

JASPERITE

Particular description of goods.—Concrete-Surfacing Materials and Concrete-Floor Toppings.
Claims use since Sept. 1, 1919.

Ser. No. 132,877. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MCKENNA & ROBBINS, New York, N. Y. Filed May 24, 1920.

Holly

Particular description of goods.—Materials Used in Making Corsets and Bandages, such as Cloth, Elastic and Non-Elastic Webbings, Silk Plush, Laces, Lacings, Lacing-Tips, Lacing-Hooks, Ribbons and Galloons, Tapes; Corset Bindings, Beltings, and Reinforcements; Flossing-Silk, Bones and Bone-Casings, Snap-Fasteners, Buckles, Garters and Garter-Fixtures, Hooks and Eyes, Eyelets, and Clasps.
Claims use since Sept. 18, 1919.

Ser. No. 132,939. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICHARD HAWORTH AND COMPANY, LIMITED, Manchester, England. Filed May 25, 1920.

HAWORTH

Particular description of goods.—Cotton Piece Goods.
Claims use since 1917.

Ser. No. 132,941. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICHARD HAWORTH AND COMPANY, LIMITED, Manchester, England. Filed May 25, 1920.

ERO

Particular description of goods.—Long-Cloths, Sheetings, Nainsooks, Madapolams, and White Calicoes, All Being Cotton Piece Goods.
Claims use since Nov. 7, 1916.

Ser. No. 132,952. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN ULLMAN, New York, N. Y. Filed May 25, 1920.

PROFILE

The picture being fanciful.
Particular description of goods.—Broad Silks in the Piece.
Claims use since Mar. 23, 1920.

Ser. No. 133,026. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JACOB STEIN, New York, N. Y. Filed May 27, 1920.

Snow Flake

Particular description of goods.—Dress-Shields.
Claims use since April, 1920.

Ser. No. 133,034. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Mrs. MINNIE WELTIN, Quincy, Ill. Filed May 27, 1920.

HUB

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 29, 1919.

Ser. No. 133,065. (CLASS 15. OILS AND GREASES.) PITTSBURGH OIL REFINING CORPORATION, Baltimore, Md. Filed May 28, 1920.

TRACTORLINE

Particular description of goods.—Lubricating-Oils, Such as Tractor-Oil.
Claims use since Aug. 3, 1919.

Ser. No. 133,083. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEBOW & Co., Newark, N. J. Filed May 29, 1920.



Particular description of goods.—Butter.
Claims use since about Oct. 1, 1916.

Ser. No. 133,106. (CLASS 12. CONSTRUCTION MATERIALS.) RICHARD S. REQUA, San Diego, Calif. Filed May 29, 1920.



Particular description of goods.—Hollow Tile.
Claims use since Nov. 11, 1919.

Ser. No. 133,123. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed June 1, 1920.



Particular description of goods.—Felt Roofing and Sheathing and Building Paper.
Claims use since about Jan. 1, 1917.

Ser. No. 133,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN F. JELKE COMPANY, Chicago, Ill. Filed June 1, 1920.



Particular description of goods.—Oleomargarin.
Claims use since May 14, 1920.

Ser. No. 133,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEARLS COMPANY, New York, N. Y. Filed June 2, 1920.



Particular description of goods.—Cakes Fried in Deep Fat.
Claims use since Apr. 29, 1920.

Ser. No. 133,223. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARTIN CALF FEED COMPANY, Mineral Point, Wis. Filed June 3, 1920.



Particular description of goods.—A Food for Calves.
Claims use since December, 1916.

TRADE-MARK REGISTRATIONS GRANTED

JUNE 29, 1920.

132,602. CANNED PORK AND BEANS, APPLE-BUTTER, JAMS, JELLIES, AND FRUIT PRESERVES. ACME PACKING COMPANY, Chicago, Ill.
Filed January 12, 1920. Serial No. 127,023. PUBLISHED APRIL 13, 1920.

132,603. PHONOGRAPHS AND PHONOGRAPH-RECORDS. THE ACME PHONOGRAPH COMPANY OF KANSAS CITY, Kansas City, Mo.
Filed December 8, 1919. Serial No. 125,678. PUBLISHED APRIL 13, 1920.

132,604. SYRUP MADE FROM CORN OR CORN AND CANE, USED FOR FOOD PURPOSES. GEORGE MARSHALL ALLEN, New York, N. Y.
Filed December 27, 1919. Serial No. 126,503. PUBLISHED APRIL 6, 1920.

132,605. PORTLAND CEMENT. ALSEN CEMENT CO. OF AMERICA INC., New York, N. Y.
Filed December 23, 1919. Serial No. 126,345. PUBLISHED MARCH 23, 1920.

132,606. TUNING-PINS. AMERICAN MUSICAL SUPPLY Co., Jersey City, N. J.
Filed October 9, 1919. Serial No. 123,566. PUBLISHED APRIL 13, 1920.

132,607. MAILING AND CORRESPONDENCE ENVELOPS, WRITING-PAPERS, AND WRITING-TABLETS. AMERICAN PAPETERIE COMPANY, Albany, N. Y.
Filed December 5, 1919. Serial No. 125,594. PUBLISHED APRIL 13, 1920.

132,608. FOOD-FLAVORING EXTRACTS. AMERICAN RENOLEO COMPANY, York, Pa.
Filed January 3, 1920. Serial No. 126,756. PUBLISHED APRIL 6, 1920.

132,609. PRINTING AND WRITING PAPER. AMERICAN WRITING PAPER CO., Holyoke, Mass.
Filed December 23, 1919. Serial No. 126,346. PUBLISHED APRIL 13, 1920.

132,610. PRINTING AND WRITNG PAPER. AMERICAN WRITING PAPER CO., Holyoke, Mass.
Filed December 23, 1919. Serial No. 126,347. PUBLISHED APRIL 13, 1920.

132,611. HAND-LOTION. HANNAH B. ANDELL, Williams Bay, Wis.
Filed April 6, 1917. Serial No. 102,761. PUBLISHED APRIL 13, 1920.

132,612. DUPLEX CRINKLED OR CRAPED PAPER FOR WRAPPING TIRES AND OTHER ARTICLES. ANGIER MECHANICAL LABORATORIES, Framingham, Mass.
Filed December 26, 1919. Serial No. 126,436. PUBLISHED APRIL 13, 1920.

132,613. INSECTICIDES AND FUNGICIDES. A. B. ANSBACHER & COMPANY, INC., New York, N. Y.
Filed July 21, 1919. Serial No. 120,737. PUBLISHED APRIL 6, 1920.

132,614. TYPEWRITER-RIBBONS, CARBON-PAPER, AND STENCIL-INK. CHARLES E. ARCHBALD, New Brunswick, N. J.
Filed June 1, 1918. Serial No. 111,295. PUBLISHED APRIL 6, 1920.

132,615. ELECTRIC-LIGHTING FIXTURES. THE ART METAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed December 13, 1919. Serial No. 125,923. PUBLSHED MARCH 23, 1920.

132,616. WHEAT-FLOUR. THE ATCHISON MILLS CORPORATION, Atchison, Kans.
Filed February 12, 1920. Serial No. 128,291. PUBLISHED APRIL 13, 1920.

132,617. MOUTH-WASH. THE AUSTEN COLOGNE COMPANY, New York, N. Y.
Filed December 6, 1919. Serial No. 125,647. PUBLISHED APRIL 13, 1920.

132,618. CHEMICAL PREPARATION FOR THE TREATMENT OF DANDRUFF. AUSTINOL CHEMICAL CO., INC., New York, N. Y.
Filed December 12, 1919. Serial No. 125,873. PUBLISHED APRIL 6, 1920.

132,619. PHONOGRAPHS. OTTO BACHMAN, St. Louis, Mo.
Filed January 20, 1920. Serial No. 127,417. PUBLISHED APRIL 6, 1920.

132,620. CANDIES. TOD BACKÉ, Brooklyn, N. Y.
Filed October 10, 1919. Serial No. 123,610. PUBLISHED APRIL 6, 1920.

132,621. LUMBER. BAKER LUMBER CO., Worcester, Mass.
Filed March 21, 1919. Serial No. 116,763. PUBLISHED MARCH 23, 1920.

132,622. CANDY. THE C. S. BALL CANDY COMPANY, Dayton, Ohio, assignor to Elinor's, Elinor Ball, proprietor, Dayton, Ohio.
Filed September 2, 1919. Serial No. 122,203. PUBLISHED APRIL 6, 1920.

132,623. CANNED VEGETABLES. J. E. BARR PICKLING & PRESERVING COMPANY, St. Cloud, Minn.
Filed February 9, 1920. Serial No. 128,136. PUBLISHED APRIL 13, 1920.

132,624. PHOTOGRAPHIC CHEMICALS AND ANILIN DYES. G. L. BARROWS, New York, N. Y., assignor to Sagamore Chemical Co., Inc., New York, N. Y., a Corporation of New York.
Filed September 5, 1919. Serial No. 122,331. PUBLISHED MARCH 30, 1920.

132,625. FRESH FRUITS. J. E. BARTLETT & SONS, Tampa, Fla.
Filed December 13, 1919. Serial No. 125,941. PUBLISHED APRIL 6, 1920.

132,626. PREPARED SHEET-ROOFING, ROOFING-TILES, SHINGLES, AND ROOFING-CEMENTS. THE BEAVER COMPANY, Buffalo, N. Y.
Filed December 6, 1919. Serial No. 125,648. PUBLISHED MARCH 23, 1920.

132,627. PREPARED SHEET-ROOFING, ROOFING-TILES, SHINGLES, AND ROOFING-CEMENTS. THE BEAVER COMPANY, Buffalo, N. Y.
Filed December 6, 1919. Serial No. 125,649. PUBLISHED MARCH 23, 1920.

132,628. TABLE-SYRUP. JOHN S. BIERHAUS, Vincennes, Ind.
Filed January 27, 1920. Serial No. 127,627. PUBLISHED APRIL 13, 1920.

132,629. CERTAIN NAMED STATIONERY. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed August 18, 1919. Serial No. 121,744. PUBLISHED APRIL 6, 1920.

132,630. STRINGED MUSICAL INSTRUMENTS RESEMBLING A BANJO AND UKULELE. JOHN A. BOLANDER, San Francisco, Calif.
Filed December 3, 1917. Serial No. 107,715. PUBLISHED APRIL 6, 1920.

132,631. PHONOGRAPH-RECORDS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed January 19, 1920. Serial No. 127,280. PUBLISHED MARCH 30, 1920.

132,632. NON-ALCOHOLIC MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. BUFFALO BREWING COMPANY, Sacramento, Calif.
Filed March 13, 1918. Serial No. 109,531. PUBLISHED DECEMBER 30, 1919.

132,633. TOY VELOCIPEDES. BUSTER MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed June 9, 1919. Serial No. 119,333. PUBLISHED APRIL 13, 1920.

132,634. NEUTRAL SODA USED FOR CLEANING AND WASHING. CALIFORNIA ALKALI CO., San Francisco, Calif.
Filed December 12, 1919. Serial No. 125,877. PUBLISHED APRIL 6, 1920.

132,635. SODA-ASH OR ANHYDROUS SODIUM CARBONATE. CALIFORNIA ALKALI CO., San Francisco, Calif.
Filed December 12, 1919. Serial No. 125,878. PUBLISHED APRIL 6, 1920.

132,636. DRY LIMA BEANS. CALIFORNIA LIMA BEAN GROWERS ASSOCIATION, Oxnard, Calif.
Filed December 12, 1919. Serial No. 125,876. PUBLISHED APRIL 6, 1920.

132,637. CANDY. CASCADE INDUSTRIES COMPANY, Cascade, Md.
Filed December 15, 1919. Serial No. 126,009. PUBLISHED APRIL 6, 1920.

132,638. CERTAIN NAMED PAPER AND STATIONERY. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed October 27, 1919. Serial No. 124,202. PUBLISHED APRIL 6, 1920.

132,639. COMPOSITION FOR OPENING CLOGGED PIPES, TRAPS, AND DRAINS. THE CHAMBERLAIN-HABER CHEMICAL CO., Cleveland, Ohio.
Filed December 5, 1919. Serial No. 125,604. PUBLISHED MARCH 30, 1920.

132,640. DAIRY AND STOCK FEED. CHAPIN & COMPANY, Hammond, Ind., and Chicago, Ill.
Filed January 22, 1919. Serial No. 115,372. PUBLISHED APRIL 13, 1920.

132,641. TOASTED PEANUTS. CHARMS COMPANY, Newark, N. J.
Filed January 6, 1920. Serial No. 126,847. PUBLISHED APRIL 6, 1920.

132,642. CERTAIN NAMED CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. CHINA, JAPAN, & SOUTH AMERICA TRADING CO., LTD., San Francisco, Calif.
Filed December 27, 1919. Serial No. 126,508. PUBLISHED APRIL 6, 1920.

132,643. PIANOS, PLAYER-PIANOS, ORGANS, PHONOGRAPHS, AND PHONOGRAPH-NEEDLES. CHIPMAN LIMITED, New York, N. Y.
Filed December 11, 1919. Serial No. 125,833. PUBLISHED MARCH 30, 1920.

132,644. SOAP. THE CINCINNATI SOAP CO., Cincinnati, Ohio.
Filed January 8, 1918. Serial No. 108,352. PUBLISHED NOVEMBER 4, 1919.

132,645. PREPARATION OF SALVE-LIKE CONSISTENCY FOR THE ALLEVIATION OF CERTAIN NAMED AILMENTS. DR. CLARK'S CHEMICAL LABORATORIES, Chicago, Ill.
Filed December 11, 1919. Serial No. 125,831. PUBLISHED APRIL 6, 1920.

132,646. POLISHING COMPOSITIONS IN BOTH CAKE AND SOLID FORM, PARTICULARLY FOR SILVER, GLASS, NICKEL, AND BRASS. THE CLARK PRODUCTS CO., Indianapolis, Ind.
Filed October 30, 1918. Serial No. 113,939. PUBLISHED NOVEMBER 25, 1919.

132,647. KEROSENE. H. EARL CLACK COMPANY, Havre, Mont.
Filed January 10, 1920. Serial No. 126,991. PUBLISHED APRIL 13, 1920.

132,648. COATED RELIEF OVERLAY-PAPER FOR USE IN PREPARING OVERLAYS AND UNDERLAYS FOR PRINTING-FORMS. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed June 25, 1919. Serial No. 119,934. PUBLISHED APRIL 6, 1920.

132,649. PRINTING-INK FOR USE WITH AN OVERLAY-PAPER. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed June 25, 1919. Serial No. 119,935. PUBLISHED APRIL 6, 1920.

132,650. ETCHING-POWDER. A. M. COLLINS MANUFACTURING COMPANY, Phialdelphia, Pa.
Filed June 25, 1919. Serial No. 119,936. PUBLISHED MARCH 16, 1920.

132,651. COATED CARDBOARD, BRISTOL-BOARD, AND COATED PAPERS. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed June 25, 1919. Serial No. 119,937. PUBLISHED APRIL 6, 1920.

132,652. PARTIALLY COOKED AND PREPARED POTATOES. CONDENSED FOOD COMPANY, Philadelphia, Pa., assignor to Armour Grain Company, Chicago, Ill., a Corporation of New Jersey.
Filed April 29, 1916. Serial No. 94,786. PUBLISHED APRIL 6, 1920.

132,653. CANNED SALMON. DAVID CONNOR, Vancouver, British Columbia, Canada.
Filed February 21, 1919. Serial No. 116,047. PUBLISHED APRIL 6, 1920.

132,654. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed December 16, 1919. Serial No. 126,104. PUBLISHED APRIL 6, 1920.

132,655. CANDY. CLARENCE A. CRANE, Cleveland, Ohio.
Filed December 20, 1919. Serial No. 126,274. PUBLISHED APRIL 6, 1920.

132,656. CANNED VEGETABLES—NAMELY, PEAS AND CORN. CRARY BROKERAGE COMPANY, Waukesha, Wis.
Filed January 6, 1920. Serial No. 126,851. PUBLISHED APRIL 13, 1920.

132,657. CERTAIN NAMED SMOKED MEATS, CERTAIN NAMED CANNED MEATS, AND CERTAIN NAMED PICKLED MEATS. DUGAL CREE, Chicago, Ill.
Filed January 13, 1919. Serial No. 115,138. PUBLISHED APRIL 6, 1920.

132,658. CERTAIN NAMED CANNED VEGETABLES, CERTAIN NAMED CANNED FRUITS AND JAMS. CROKER PACKING CO., San Francisco, Calif.
Filed December 15, 1919. Serial No. 126,010. PUBLISHED APRIL 6, 1920.

132,659. CERTAIN NAMED CANNED FRUITS AND VEGETABLES AND JAMS. CROKER PACKING CO., San Francisco, Calif.
Filed December 27, 1919. Serial No. 126,506. PUBLISHED APRIL 13, 1920.

132,660. POULTRY AND STOCK FEEDS—NAMELY, WHEAT FEED, STOCK FEED, AND BALANCED RATION. J. CUSHING CO., Fitchburg, Mass.
Filed December 16, 1919. Serial No. 126,099. PUBLISHED APRIL 13, 1920.

132,661. PERFUMERY. CHARLES DAVIS, Paris, France.
Filed May 17, 1918. Serial No. 110,950. PUBLISHED MARCH 30, 1920.

132,662. TRAILERS AND SEMITRAILERS AND AUTOMOTIVE VEHICLES — NAMELY, TRUCKS AND TRACTOR-TRUCKS. DAY-ELDER MOTORS CORPORATION, Newark, N. J.
Filed September 20, 1919. Serial No. 122,934. PUBLISHED MARCH 23, 1920.

132,663. TRAILERS, SEMITRAILERS, AND AUTOMOTIVE VEHICLES—NAMELY, TRUCKS AND TRACTOR-TRUCKS. DAY-ELDER MOTORS CORPORATION, Irvington, N. J.
Filed October 13, 1919. Serial No. 123,731. PUBLISHED MARCH 23, 1920.

132,664. REMEDY FOR LUNG TROUBLE. BARBARA M. DESCH, Columbia, Pa.
Filed May 19, 1919. Serial No. 118,647. PUBLISHED APRIL 6, 1920.

132,665. CARBOLIC ACID. A/S DET ALMINDELIGE HANDELSKOMPAGNI, Copenhagen, Denmark.
Filed September 3, 1919. Serial No. 122,239. PUBLISHED MARCH 23, 1920.

132,666. PORTABLE PHONOGRAPHS. CARROLL E. DODSON, Kansas City, Mo.
Filed October 11, 1919. Serial No. 123,686. PUBLISHED MARCH 23, 1920.

132,667. CERTAIN NAMED METAL CASTINGS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed March 26, 1918. Serial No. 109,796. PUBLISHED MARCH 23, 1920.

132,668. FLUID WRITING-INK. THE ECONOMY INK COMPANY, Cincinnati, Ohio.
Filed January 20, 1919. Serial No. 115,317. PUBLISHED MARCH 30, 1920.

132,669. WOMEN'S PETTICOATS. ELLIOT PETTICOAT CO., Boston, Mass.
Filed June 12, 1919. Serial No. 119,534. PUBLISHED NOVEMBER 18, 1919.

132,670. FLAGS. EMERSON MANUFACTURING COMPANY, San Francisco, Calif.
Filed September 30, 1919. Serial No. 123,279. PUBLISHED MARCH 23, 1920.

132,671. FLAGS. EMERSON MANUFACTURING COMPANY, San Francisco, Calif.
Filed September 30, 1919. Serial No. 123,281. PUBLISHED MARCH 23, 1920.

132,672. EGGS IN POWDERED FORM. EMPIRE BAKERS SPECIALTY CO., New York, N. Y.
Filed February 4, 1920. Serial No. 127,964. PUBLISHED APRIL 13, 1920.

132,673. PICTURE OR SHEET MOUNTING DEVICES. ALBERT W. ENGEL, Chicago, Ill.
Filed September 2, 1919. Serial No. 122,209. PUBLISHED APRIL 6, 1920.

132,674. LEATHER. JOHN R. EVANS & COMPANY, Philadelphia, Pa.
Filed January 2, 1920. Serial No. 126,718. PUBLISHED MARCH 23, 1920.

132,675. WHEAT-FLOUR AND PANCAKE-FLOUR. OLNEY W. EVERTTS, Elmira, N. Y.
Filed February 10, 1920. Serial No. 128,204. PUBLISHED APRIL 13, 1920.

132,676. CHEMICALLY-COMPOUNDED FLUID THE SCENT OF WHICH ATTRACTS ANIMALS AND USED AS BAIT. FEDERAL FUR & WOOL COMPANY, St. Louis, Mo.
Filed December 12, 1919. Serial No. 125,882. PUBLISHED APRIL 6, 1920.

132,677. SNAP-FASTENERS AND PLACKET-FASTENERS. FEDERAL SNAP FASTENER CORPORATION, New York, N. Y.
Filed October 16, 1919. Serial No. 123,847. PUBLISHED MARCH 23, 1920.

132,678. LICE-POWDER AND DISINFECTANTS. JOHN SAMPSON FLEMING, Miltonvale, Kans.
Filed May 17, 1919. Serial No. 118,595. PUBLISHED MARCH 30, 1920.

132,679. MEDICINE FOR STOMACH, LIVER, STRENGTH-TONIC, APPETITE, AND A PHYSIC. ANANIA FLORES, Brownsville, Pa.
Filed December 5, 1919. Serial No. 125,610. PUBLISHED MARCH 30, 1920.

132,680. MEDICINE FOR KIDNEYS, STOMACH, APPETITE, DIGESTION, STRENGTH-TONIC. ANANIA FLORES, Brownsville, Pa.
Filed December 5, 1919. Serial No. 125,611. PUBLISHED MARCH 30, 1920.

132,681. CARBONATED LAXATIVE. FRANK M. FOX & Co., Saegertown, Pa.
Filed December 15, 1919. Serial No. 126,017. PUBLISHED APRIL 13, 1920.

132,682. PACKAGED GRATED AND SHREDDED COCOANUT. THE FRANKLIN BAKER COMPANY, Philadelphia, Pa.
Filed January 9, 1920. Serial No. 126,958. PUBLISHED APRIL 13, 1920.

132,683. SANITARY COVER FOR TOILET-SEATS. MAURICE FRASER, Detroit, Mich.
Filed November 28, 1919. Serial No. 125,379. PUBLISHED APRIL 6, 1920.

132,684. DYESTUFFS. RALPH L. FULLER & CO., INC., Searsdale and New York, N. Y.
Filed July 5, 1919. Serial No. 120,280. PUBLISHED MARCH 30, 1920.

132,685. WAIST AND SKIRT BELTINGS. ANNA B. GABA, Omaha, Nebr.
Filed January 16, 1919. Serial No. 115,218. PUBLISHED MARCH 23, 1920.

132,686. ALMOND AND HONEYY CREAM, COLD-CREAM, HAIR-TONICS, MOUTH-WASH, TALCUM POWDERS, AND FACE-POWDERS. ALBERT J. GANNON, Meriden, Conn.
Filed June 4, 1919. Serial No. 119,192. PUBLISHED MARCH 16, 1920.

132,687. VEHICLE-TOPS. THE GENERAL TOP COMPANY, Cleveland, Ohio.
Filed January 2, 1920. Serial No. 126,721. PUBLISHED MARCH 23, 1920.

132,688. SKIN-ASTRINGENT. PERCY GRAHAM, Chicago, Ill.
Filed December 15, 1919. Serial No. 126,019. PUBLISHED APRIL 13, 1920.

132,689. PETROLEUM JELLY. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed December 11, 1919. Serial No. 125,837. PUBLISHED APRIL 6, 1920.

132,690. CANDY. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed December 11, 1919. Serial No. 125,838. PUBLISHED APRIL 13, 1920.

132,691. BAKING-POWDER, SODA, CREAM OF TARTAR, AMMONIA, AND LIQUID BLUE. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed December 22, 1919. Serial No. 126,317. PUBLISHED APRIL 13, 1920.

132,692. SPARK-PLUGS. GEORGE H. GREENHALGH, Harrison, N. J.
Filed August 14, 1919. Serial No. 131,669. PUBLISHED NOVEMBER 11, 1919.

132,693. ROOFING-CEMENT. RUDOLPH GREENSTEIN, New York, N. Y.
Filed October 18, 1919. Serial No. 123,927. PUBLISHED MARCH 23, 1920.

132,694. DANDRUFF-REMOVER. GRO-MOR CHEMICAL CO., Cincinnati, Ohio.
Filed February 11, 1919. Serial No. 115,761. PUBLISHED MARCH 30, 1920.

132,695. OLIVE-OIL. ISIDOR HABER, Brooklyn, N. Y.
Filed September 30, 1919. Serial No. 123,283. PUBLISHED APRIL 13, 1920.

132,696. OIL-BURNERS. CHARLES A. HAMMEL, Los Angeles, Calif.
Filed May 19, 1919. Serial No. 118,670. PUBLISHED MARCH 23, 1920.

132,697. HIDES, SKINS, AND UNWROUGHT LEATHER. HANDLEY PAGE LIMITED, Cricklewood, London, England.
Filed June 25, 1919. Serial No. 119,943. PUBLISHED MARCH 23, 1920.

132,698. CANDIES. HARDIE BROS. CO., Pittsburgh, Pa.
Filed December 29, 1919. Serial No. 126,583. PUBLISHED APRIL 6, 1920.

132,699. FOUNTAIN-PENS. ABRAHAM HARRIS, New York, N. Y.
Filed December 18, 1919. Serial No. 126,213. PUBLISHED APRIL 13, 1920.

132,700. AIRPLANE-PROPELLERS. GEORGE W. HARTZELL, Piqua, Ohio.
Filed October 22, 1917. Serial No. 106,893. PUBLISHED SEPTEMBER 17, 1918.

132,701. MEDICAL PREPARATION FOR INTERNAL USE FOR INTESTINAL AND URETHRAL ASEPSIS. EDWARD OSCAR HEINRICH, Boulder, Colo.
Filed August 24, 1918. Serial No. 112,861. PUBLISHED APRIL 13, 1920.

132,702. WOOD, COAL, AND GAS HEATERS. HEMP & CO. (CORP.), St. Louis, Mo.
Filed December 15, 1919. Serial No. 126,025. PUBLISHED MARCH 23, 1920.

132,703. TOOL-STEEL IN BAR, ROD, AND OTHER FORMS. HERCULES ELECTRIC STEEL CORPORATION, New York, N. Y.
Filed August 29, 1918. Serial No. 112,932. PUBLISHED OCTOBER 29, 1918.

132,704. CERTAIN NAMED TOILET PREPARATIONS. HERMO CO., Chicago, Ill.
Filed December 15, 1919. Serial No. 126,034. PUBLISHED APRIL 13, 1920.

132,705. MEDICINAL PREPARATION FOR RHEUMATISM. STANISLAUS J. HON, South Bend, Ind.
Filed December 23, 1918. Serial No. 114,783. PUBLISHED MARCH 30, 1920.

132,706. MILK-CHOCOLATE BARS. HOOTON COCOA COMPANY, Newark, N. J.
Filed October 2, 1919. Serial No. 123,353. PUBLISHED APRIL 6, 1920.

132,707. OINTMENT FOR THE RELIEF OF HEMORRHOIDS AND OTHER RECTAL TROUBLES AND A SALVE FOR EXTERNAL APPLICATION. HOWELL AND ELLIS, Denver, Colo.
Filed November 3, 1919. Serial No. 124,483. PUBLISHED MARCH 16, 1920.

132,708. STEEL PENS. C. HOWARD HUNT PEN COMPANY, Camden, N. J.
Filed September 4, 1919. Serial No. 122,300. PUBLISHED MARCH 2, 1920.

132,709. SOAP. HUNTINGTON CHEMICAL COMPANY, Huntington, Ind.
Filed October 10, 1919. Serial No. 123,646. PUBLISHED DECEMBER 30, 1919.

132,710. CANDY, CONFECTIONS, COCOAS, CHOCOLATE, AND CERTAIN NAMED CHOCOLATE PRODUCTS. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y.
Filed December 27, 1919. Serial No. 126,523. PUBLISHED APRIL 13, 1920.

132,711. CANDY, CONFECTIONS, COCOAS, CHOCOLATE, AND CERTAIN NAMED CHOCOLATE PRODUCTS. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y.
Filed December 27, 1919. Serial No. 126,524. PUBLISHED APRIL 13, 1920.

132,712. CHOCOLATE. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y.
Filed January 10, 1920. Serial No. 126,998. PUBLISHED APRIL 6, 1920.

132,713. LIQUID SHOE DRESSING AND CLEANSER. THE IMPORT DRUG SPECIALTIES COMPANY, Cleveland, Ohio.
Filed February 21, 1919. Serial No. 116,053. PUBLISHED JANUARY 6, 1920.

132,714. MIXED GRAIN FOR POULTRY FEED AND GRAIN PRODUCTS AND CONCENTRATES FOR HOG AND CATTLE FEED. INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn.
Filed February 6, 1918. Serial No. 108,851. PUBLISHED APRIL 13, 1920.

132,715. VEHICLE-WHEELS. JAXON STEEL PRODUCTS COMPANY, Detroit, Mich.
Filed November 24, 1919. Serial No. 125,231. PUBLISHED MARCH 23, 1920.

132,716. PLEASURE-AUTOMOBILES AND MOTOR-TRUCKS. THE JONES MOTOR CAR CO., Wichita, Kans.
Filed January 27, 1920. Serial No. 127,652. PUBLISHED MARCH 23, 1920.

132,717. CAKE. FRANK G. JUSTICE, Philadelphia, Pa.
Filed December 15, 1919. Serial No. 126,037. PUBLISHED APRIL 6, 1920.

132,718. HAIR-TINT. THE KENTON PHARMACAL COMPANY, Covington, Ky.
Filed September 27, 1919. Serial No. 123,210. PUBLISHED MARCH 30, 1920.

132,719. SCREW-CUTTING OIL. KEYSTONE OIL & MANUFACTURING COMPANY, Chicago, Ill.
Filed January 21, 1920. Serial No. 127,431. PUBLISHED APRIL 13, 1920.

132,720. SOAP, SOAP POWDERS, AND CLEANSERS. KILDIRT SOAP PRODUCTS COMPANY, Seattle, Wash.
Filed November 14, 1917. Serial No. 107,370. PUBLISHED NOVEMBER 18, 1919.

132,721. TOILET SOAP. JAMES S. KIRK & COMPANY, Chicago, Ill.
Filed April 30, 1919. Serial No. 118,016. PUBLISHED NOVEMBER 25, 1919.

132,722. AUTOMOBILES. THE KISSEL MOTOR CAR COMPANY, Hartford, Wis.
Filed April 23, 1915. Serial No. 86,141. PUBLISHED MARCH 23, 1920.

132,723. CHEESE OF VARIOUS KINDS OR TYPES. J. L. KRAFT & BROS. CO., Chicago, Ill.
Filed January 17, 1920. Serial No. 127,249. PUBLISHED APRIL 13, 1920.

132,724. HIDES AND LEATHER. KULLMAN, SALZ & CO., San Francisco, Calif.
Filed March 14, 1919. Serial No. 116,574. PUBLISHED MARCH 23, 1920.

132,725. HIDES AND LEATHER. KULLMAN, SALZ & CO., San Francisco, Calif.
Filed March 14, 1919. Serial No. 116,575. PUBLISHED MARCH 23, 1920.

132,726. CANDIES. LADY JEFFERSON CANDY COMPANY, Birmingham, Ala.
Filed January 8, 1920. Serial No. 126,934. PUBLISHED APRIL 13, 1920.

132,727. BASE-METAL COMPOSITION COMPOSED OF STEEL, CHROMIUM, SULFUR, PHOSPHORUS, AND SILICON. LANDERS, FRARY & CLARK, New Britain, Conn.
Filed October 4, 1917. Serial No. 106,604. PUBLISHED FEBRUARY 26, 1918.

132,728. LIQUID REMEDY TO BE USED AS A MOUTH-WASH. RALPH OLDS LEONARD, Park Place, Tex.
Filed January 7, 1919. Serial No. 115,028. PUBLISHED MARCH 16, 1920.

132,729. FABRIC MADE WITH A COTTON WARP AND A FILLING OF WOOL, ALPACA, OR MOHAIR. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed October 4, 1919. Serial No. 123,440. PUBLISHED DECEMBER 16, 1919.

132,730. SANITARY PAPER COVER FOR TOILET-SEATS. JOSEPH I. LEVY, Philadelphia, Pa.
Filed November 6, 1919. Serial No. 124,614. PUBLISHED APRIL 6, 1920.

132,731. BOX-COVER WRAPPERS, PACKAGE-LABELS, SHIPPING-LABELS, AND SHIPPING-TAGS. L. A. LIEBS CO., INC., New York, N. Y.
Filed December 15, 1919. Serial No. 126,041. PUBLISHED APRIL 6, 1920.

132,732. TABLET CONTAINING RADIUM THERAPEUTIC QUALITIES. MARY A. LOYER, Denver, Colo.
Filed October 16, 1916. Serial No. 98,741. PUBLISHED APRIL 6, 1920.

132,733. WHEAT-FLOUR. LYON & GREENLEAF CO., Ligonier, Ind.
Filed November 4, 1919. Serial No. 124,525. PUBLISHED APRIL 6, 1920.

132,734. PEDALS FOR MUSICAL INSTRUMENTS. LYON & HEALY, Chicago, Ill.
Filed December 22, 1919. Serial No. 126,330. PUBLISHED APRIL 6, 1920.

132,735. OLIVE-OIL. MAGGIOROS & ROUSOS, Rochester, N. Y.
Filed December 26, 1919. Serial No. 126,479. PUBLISHED APRIL 6, 1920.

132,736. PHONOGRAPHS AND TALKING-MACHINES. ANGELO MANNELLO, New York, N. Y.
Filed November 28, 1919. Serial No. 125,398. PUBLISHED APRIL 6, 1920.

132,737. CERTAIN NAMED CANNED FRUITS AND CANNED VEGETABLES. MANTECA CANNING CO., Manteca, Calif.
Filed December 27, 1919. Serial No. 126,529. PUBLISHED APRIL 6, 1920.

132,738. CERTAIN NAMED CANNED FRUITS AND CANNED VEGETABLES. MANTECA CANNING CO., Manteca, Calif.
Filed December 27, 1919. Serial No. 126,530. PUBLISHED APRIL 6, 1920.

132,739. CANNED APRICOTS. MANTECA CANNING CO., Manteca, Calif.
Filed December 27, 1919. Serial No. 126,531. PUBLISHED APRIL 6, 1920.

132,740. CERTAIN NAMED CANNED FRUITS. MANTECA PACKING COMPANY, Manteca, Calif.
Filed December 27, 1919. Serial No. 126,536. PUBLISHED APRIL 6, 1920.

132,741. COMPOSITION RUBBER MATERIAL IN SHEET FORM. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed November 17, 1919. Serial No. 125,003. PUBLISHED MARCH 23, 1920.

132,742. PHARMACEUTICAL PREPARATION FOR CHAP, SUNBURN, AND ALL SKIN IRRITATION. HENRY C. MAYNARD, Highland Park, Ill.
Filed August 16, 1919. Serial No. 121,705. PUBLISHED MARCH 16, 1920.

132,743. CERTAIN NAMED MEDICINES AND PHARMACEUTICAL PREPARATIONS. HERMAN A. METZ, New York, N. Y.
Filed June 10, 1919. Serial No. 119,426. PUBLISHED DECEMBER 23, 1919.

132,744. PHONOGRAPHS, TALKING-MACHINES, AND SOUND-BOXES AND NEEDLES THEREFOR. ROBERT G. MITCHELL, Mount Vernon, N. Y.
Filed December 8, 1919. Serial No. 125,716. PUBLISHED APRIL 13, 1920.

132,745. METAL GRATING. MITCHELL-TAPPEN COMPANY, New York, N. Y.
Filed January 19, 1920. Serial No. 127,323. PUBLISHED MARCH 23, 1920.

132,746. MEDICINE FOR RHEUMATIC AILMENTS. EDGAR L. MOADINGER, New York, N. Y.
Filed September 19, 1919. Serial No. 122,904. PUBLISHED APRIL 13, 1920.

132,747. POWDER CONVERTIBLE INTO BEVERAGES, MADE OF COCOA, SUGAR, POWDERED MILK, OR OTHER INGREDIENTS. MODERN FOOD COMPANY, New York, N. Y.
Filed October 25, 1919. Serial No. 124,183. PUBLISHED APRIL 6, 1920.

132,748. PHENYLCINCHONINIC ACID. MORGENSTERN & COMPANY, New York, N. Y.
Filed December 6, 1919. Serial No. 125,666. PUBLISHED APRIL 13, 1920.

132,749. CANNED VEGETABLES. THE MOUNT AIRY CANNING CO., Mount Airy, Md.
Filed December 29, 1919. Serial No. 126,588. PUBLISHED APRIL 6, 1920.

132,750. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1920. Serial No. 128,007. PUBLISHED APRIL 13, 1920.

132,751. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1920. Serial No. 128,008. PUBLISHED APRIL 13, 1920.

132,752. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1920. Serial No. 128,009. PUBLISHED APRIL 13, 1920.

132,753. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1920. Serial No. 128,011. PUBLISHED APRIL 13, 1920.

132,754. COCOANUT-BUTTER. NATIONAL COCOANUT BUTTER COMPANY, Tacoma, Wash.
Filed July 19, 1919. Serial No. 120,710. PUBLISHED APRIL 13, 1920.

132,755. MEDICINE FOR THE TREATMENT OF INDIGESTION, DYSPEPSIA, AND CONSTIPATION. THE NEW ERA PRODUCTS COMPANY, Lancaster, Ohio.
Filed July 3, 1919. Serial No. 120,255. PUBLISHED MARCH 16, 1920.

132,756. CERTAIN NAMED PAPER AND STATIONERY. NEW PRODUCTS COMPANY, Pittsburgh, Pa.
Filed October 17, 1919. Serial No. 123,900. PUBLISHED APRIL 13, 1920.

132,757. WRITING AND PRINTING BOND-PAPER, LEDGER-PAPER, WRITING-PAPER, AND MAILING-ENVELOPS. NEW YORK OVERSEA CO., INC., New York, N. Y.
Filed November 20, 1919. Serial No. 125,121. PUBLISHED APRIL 6, 1920.

132,758. CANNED TEA. SADATSUGU NISHIKAWA, Los Angeles, Calif.
Filed May 6, 1919. Serial No. 118,213. PUBLISHED APRIL 6, 1920.

132,759. FRESH AND CANNED OYSTERS, SHRIMP, AND CRABS, AND FRESH, SALTED, AND CANNED FISH. CHARLES NOBLE JR. COMPANY, Buffalo, N. Y.
Filed January 26, 1917. Serial No. 100,967. PUBLISHED APRIL 6, 1920.

132,760. AUTOMOBILE EXHAUST-HEATERS. NOBLE HEATER COMPANY, Fort Wayne, Ind.
Filed January 10, 1920. Serial No. 127,007. PUBLISHED MARCH 23, 1920.

132,761. CRUCIBLE AND FIRE-BRICK COATING COMPOUND FOR PRODUCING A PROTECTIVE GLAZE THEREON. NON-METALLIC FLUX COMPANY, Newark, N. J.
Filed November 3, 1919. Serial No. 124,490. PUBLISHED MARCH 23, 1920.

132,762. SUGARED PEANUTS. THE NUT HOUSE, INC., Seattle, Wash.
Filed November 17, 1919. Serial No. 125,009. PUBLISHED APRIL 6, 1920.

132,763. OINTMENT FOR EXTERNAL APPLICATIONS TO SOURCES OF BLOOD-POISONING WHEN SUCH SOURCES ARE EXTERNAL. Mrs. MARY ODELL, Peekskill, N. Y.
Filed May 16, 1919. Serial No. 118,571. PUBLISHED MARCH 16, 1920.

132,764. CERTAIN NAMED OILS AND GREASES. THE OHIO GREASE COMPANY, Loudonville, Ohio.
Filed July 15, 1919. Serial No. 120,578. PUBLISHED APRIL 6, 1920.

132,765. CHOCOLATES. THE OHIO HOTEL OPERATING CO., Youngstown, Ohio.
Filed September 2, 1919. Serial No. 122,226. PUBLISHED APRIL 6, 1920.

132,766. CONDENSED AND EVAPORATED MILK. THE BURT OLNEY CANNING COMPANY, Oneida, N. Y.
Filed December 9, 1918. Serial No. 114,554. PUBLISHED APRIL 6, 1920.

132,767. HAIR-TONIC FOR DANDRUFF AND FALLING HAIR. SVEN H. OLSON, Colorado Springs, Colo.
Filed August 7, 1919. Serial No. 121,355. PUBLISHED MARCH 16, 1920.

132,768. WRITING AND PRINTING PAPERS AND WRITING-TABLETS. OSBORN PAPER COMPANY, Marion, Ind.
Filed December 8, 1919. Serial No. 125,721. PUBLISHED APRIL 13, 1920.

132,769. WRITING AND PRINTING PAPERS AND WRITING-TABLETS. OSBORN PAPER COMPANY, Marion, Ind.
Filed December 11, 1919. Serial No. 125,854. PUBLISHED APRIL 6, 1920.

132,770. LUMBER—NAMELY SPANISH-CEDAR LUMBER, MAHOGANY LUMBER. OTIS MANUFACTURING CO., New Orleans, La.
Filed November 6, 1919. Serial No. 124,618. PUBLISHED MARCH 23, 1920.

132,771. CANDY. PAGE & SHAW, INC., Boston and Cambridge, Mass.
Filed February 2, 1920. Serial No. 127,873. PUBLISHED APRIL 13, 1920.

132,772. WATERPROOF ROOFINGS AND BUILDING-PAPERS. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed November 11, 1919. Serial No. 124,761. PUBLISHED MARCH 23, 1920.

132,773. GERMICIDE, DISINFECTANT, ANTISEPTIC, AND DEODORANT. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed December 6, 1919. Serial No. 125,669. PUBLISHED APRIL 13, 1920.

132,774. FACE-CREAMS. PARTOLA DISTRIBUTING COMPANY, New York, N. Y.
Filed July 28, 1919. Serial No. 121,018. PUBLISHED APRIL 13, 1920.

132,775. LAXATIVE MEDICINE IN CANDY FORM. PARTOLA DISTRIBUTING COMPANY, New York, N. Y.
Filed September 26, 1919. Serial No. 123,172. PUBLISHED APRIL 13, 1920.

132,776. SALVE FOR LOCAL APPLICATION IN THE TREATMENT OF CERTAIN NAMED AILMENTS. PATTON-JONES, Montgomery, Tex.
Filed July 24, 1919. Serial No. 120,878. PUBLISHED MARCH 16, 1920.

132,777. CANDY. ROY PAULEY, Schenectady, N. Y.
Filed December 11, 1919. Serial No. 125,855. PUBLISHED APRIL 13, 1920.

132,778. GARTERS. PENN BROS. SUSPENDER COMPANY, Madison, N. C.
Filed November 25, 1919. Serial No. 125,802. PUBLISHED MARCH 23, 1920.

132,779. PATENT-LEATHER. PERKINS & MCNEELY, Philadelphia, Pa.
Filed November 22, 1919. Serial No. 125,194. PUBLISHED MARCH 23, 1920.

132,780. TOOTH-PASTE. JOSEPH J. PHILLIPS, Brooklyn, N. Y.
Filed December 5, 1919. Serial No. 125,627. PUBLISHED APRIL 13, 1920.

132,781. POPCORN, SHELLED AND UNPOPPED. EUGENE G. PIERCE, Chicago, Ill.
Filed October 20, 1919. Serial No. 124,005. PUBLISHED APRIL 6, 1920.

132,782. PRESERVATIVE COMPOUND FOR MEATS, FISH, AND FOWL. PRICE COMPOUND COMPANY, Minneapolis, Minn.
Filed September 4, 1919. Serial No. 122,310. PUBLISHED DECEMBER 23, 1919.

132,783. CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. THE PRISCILLA PUBLISHING CO., Boston, Mass.
Filed July 29, 1918. Serial No. 112,402. PUBLISHED NOVEMBER 11, 1919.

132,784. TALKING-MACHINE RECORDS. Q. R. S. COMPANY, Chicago, Ill.
Filed January 16, 1920. Serial No. 127,226. PUBLISHED APRIL 13, 1920.

132,785. COAL, GAS, AND WOOD HEATERS, STOVES, AND RANGES. QUAKERTOWN STOVE WORKS, Quakertown, Pa.
Filed December 10, 1919. Serial No. 125,803. PUBLISHED MARCH 23, 1920.

132,786. BELTS FOR SUPPORTING GARMENTS. I. RAVICH & SONS, INC., New York, N. Y.
Filed August 26, 1919. Serial No. 122,028. PUBLISHED MARCH 23, 1920.

132,787. GRAY FILTER-PAPER. H. REEVE ANGEL & CO. INC., New York, N. Y.
Filed January 14, 1920. Serial No. 127,107. PUBLISHED APRIL 6, 1920.

132,788. HAIR-GROWER SHAMPOO, BRILLIANTINE, OR PRESSING-OIL. LUCY J. REEVES, Atlanta, Ga.
Filed May 12, 1919. Serial No. 118,398. PUBLISHED MARCH 16, 1920.

132,789. LOUISIANA MOSS, USED PRINCIPALLY FOR UPHOLSTERY PURPOSES. THE REPUBLIC COMPANY, Pittsburgh, Pa.
Filed July 1, 1919. Serial No. 120,184. PUBLISHED MARCH 23, 1920.

132,790. LEATHER OF ALL KINDS. RICE & HUTCHINS, INCORPORATED, Boston, Mass.
Filed December 19, 1919. Serial No. 126,263. PUBLISHED MARCH 23, 1920.

132,791. CANNED FISH—NAMELY, CANNED SALMON. A. RUPERT COMPANY, INC., Portland, Oreg.
Filed December 15, 1919. Serial No. 126,062. PUBLISHED APRIL 6, 1920.

132,792. CANNED SALMON, CANNED FRUITS—CANNED LOGANBERRIES AND CANNED STRAWBERRIES; CANNED VEGETABLES—CANNED BEETS. A. RUPERT COMPANY, INC., Portland, Oreg.
Filed December 15, 1919. Serial No. 126,065. PUBLISHED APRIL 13, 1920.

132,793. FRESH GRAPES. LOUIS RUSCONI, Wahtoke, Calif.
Filed September 12, 1919. Serial No. 122,612. PUBLISHED APRIL 13, 1920.

132,794. CARBON-REMOVERS. THE RYAN-EASTMAN CO., Cedar Rapids, Iowa.
Filed December 17, 1919. Serial No. 126,197. PUBLISHED APRIL 13, 1920.

132,795. STOMACH-TONIC. MARTIN D. RYBOWSKI, Cleveland, Ohio.
Filed June 28, 1919. Serial No. 120,066. PUBLISHED APRIL 13, 1920.

132,796. CANDLES. SAFETY NIGHT LIGHT COMPANY, Brooklyn, N. Y.
Filed January 17, 1920. Serial No. 127,263. PUBLISHED APRIL 13, 1920.

132,797. WATERPROOF FABRICS. JAMES SCARLETT, Seattle, Wash.
Filed October 6, 1919. Serial No. 123,501. PUBLISHED MARCH 23, 1920.

132,798. CANDIES. DAVID SCHIFF, New York, N. Y.
Filed June 2, 1919. Serial No. 119,133. PUBLISHED APRIL 6, 1920.

132,799. WRITING-PAPER, WRAPPING-PAPER, CARDBOARD, AND PAPER MAILING-ENVELOPS. M. & F. SCHLOSSER, New York, N. Y.
Filed January 2, 1920. Serial No. 126,748. PUBLISHED APRIL 13, 1920.

132,800. FACE-POWDER AND ROUGES. JULIUS SCHMID, INCORPORATED, New York, N. Y.
Filed November 29, 1919. Serial No. 125,435. PUBLISHED APRIL 13, 1920.

132,801. CAPPING-SKINS FOR STOPPERED BOTTLES. JULIUS SCHMID, INCORPORATED, New York, N. Y.
Filed November 29, 1919. Serial No. 125,437. PUBLISHED MARCH 23, 1920.

132,802. TEA AND RICE. WILLIAM S. SCULL COMPANY, Camden, N. J.
Filed December 10, 1919. Serial No. 125,808. PUBLISHED APRIL 6, 1920.

132,803. HAIR-TONIC. IDA LEE SECREST, Chanute, Kans.
Filed August 19, 1919. Serial No. 121,817. PUBLISHED APRIL 13, 1920.

132,804. SOUND-RECORDS. THEODORE L. SHAW, Boston, Mass.
Filed January 19, 1920. Serial No. 127,336. PUBLISHED APRIL 13, 1920.

132,805. MEDICINAL TABLETS FOR COLDS, CATARRHAL INFECTIONS AND INFUENZA, CHILLS AND FEVER, AND MENSTRUAL DISTURBANCES. JOHN W. SHEFFIELD, Binghamton, N. Y.
Filed March 1, 1919. Serial No. 116,239. PUBLISHED MARCH 16, 1920.

132,806. PINE-OIL DISINFECTANT. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio.
Filed December 11, 1919. Serial No. 125,864. PUBLISHED APRIL 6, 1920.

132,807. PIANOS. B. SHONINGER CO., New Haven, Conn.
Filed December 23, 1919. Serial No. 126,396. PUBLISHED APRIL 13, 1920.

132,808. SALVE FOR USE IN THE TREATMENT OF THE SCALP. ANNIE SIMS, Pittsburgh, Pa.
Filed December 8, 1919. Serial No. 125,727. PUBLISHED APRIL 6, 1920.

132,809. ICE-CREAMS, INCLUDING WATER-ICE, FROZEN CUSTARD, FROZEN FRUITS, AND SHERBETS. SMITH & CLARK COMPANY, Wilkes-Barre and Scranton, Pa.
Filed July 22, 1918. Serial No. 112,270. PUBLISHED APRIL 6, 1920.

132,810. INSTANTANEOUS COCOA IN POWDERED FORM MADE OF SUGAR, MILK, CHOCOLATE, OR COCOA. SMITH & CLARK COMPANY, Wilkes-Barre and Scranton, Pa.
Filed January 10, 1920. Serial No. 127,017. PUBLISHED APRIL 13, 1920.

132,811. DRY COMPOSITION FOR THE TREATMENT OF INFLUENZA. JOHN ROBERT SMITH, Redondo Beach, Calif.
Filed September 22, 1919. Serial No. 123,001. PUBLISHED APRIL 13, 1920.

132,812. PARAFFIN-WAX, OZOCERITE, CERESIN, MONTAN WAX, JAPAN WAX, CARNAUBA-WAX, BAYBERRY-WAX, CANDELILLA-WAX. SMITH & NICHOLS, INCORPORATED, New York, N. Y., and Boston, Mass.
Filed May 27, 1918. Serial No. 111,225. PUBLISHED APRIL 6, 1920.

132,813. CHEMICAL PREPARATIONS CONTAINING FORMALDEHYDE, TOGETHER WITH A PRODUCT DERIVED FROM MINERAL-SHALE OILS. SOCIETÀ INDUSTRIE CHIMICHE ITTIOLO, Naples, Italy.
Filed July 10, 1919. Serial No. 120,439. PUBLISHED APRIL 6, 1920.

132,814. HOUSE-HEATING-RADIATOR SHIELDS. SODEMANN HEAT & POWER CO., St. Louis, Mo.
Filed January 31, 1919. Serial No. 115,557. PUBLISHED MARCH 23, 1920.

132,815. TALKING-MACHINES, PHONOGRAPHS, GRAMOPHONES, GRAPHOPHONES, AND MUSIC-BOXES. SONORA PHONOGRAPH CORPORATION, New York, N. Y.
Filed October 9, 1919. Serial No. 123,590. PUBLISHED APRIL 13, 1920.

132,816. GASOLENE. SOUTHERN OIL CORPORATION, Kansas City, Mo.
Filed February 5, 1920. Serial No. 128,027. PUBLISHED APRIL 13, 1920.

132,817. CERTAIN NAMED CANNED FRUITS AND CERTAIN NAMED CANNED BERRIES. STARR FRUIT PRODUCTS CO., Portland, Oreg.
Filed December 12, 1919. Serial No. 125,914. PUBLISHED APRIL 6, 1920.

132,818. CANDIES. STEARNS-HOLLINSHEAD CO., Portland, Oreg.
Filed February 3, 1920. Serial No. 127,940. PUBLISHED APRIL 13, 1920.

132,819. WOOD, COAL, AND COMBINED WOOD OR COAL AND GAS STOVES, RANGES, AND HEATERS. STEIGER & KERR STOVE & FOUNDRY CO., San Francisco, Calif.
Filed October 27, 1919. Serial No. 124,239. PUBLISHED MARCH 23, 1920.

132,820. NOVELTY WIND INSTRUMENT. GEORGE W. STEWART, New York, N. Y.
Filed December 5, 1919. Serial No. 125,633. PUBLISHED APRIL 13, 1920.

132,821. BARRELS AND KEGS. ST. LOUIS COOPERAGE COMPANY, St. Louis, Mo.
Filed August 18, 1919. Serial No. 121,792. PUBLISHED NOVEMBER 25, 1919.

132,822. COAL. STORM KING COAL COMPANY, Jeff, Ky., assignor to Storm King Coal Mining Company, a Corporation of Kentucky.
Filed October 17, 1919. Serial No. 123,910. PUBLISHED MARCH 23, 1920.

132,823. LAXATIVE COLD-TABLETS, COCOANUT-OIL SHAMPOO, IRON RUST AND STAIN REMOVER. BUFORD R. STONE, Reidsville, N. C.
Filed December 13, 1919. Serial No. 125,980. PUBLISHED APRIL 13, 1920.

132,824. MEDICINAL PREPARATION FOR NERVOUS EXHAUSTION, HYSTERIA, NEURASTHENIA, AND FUNCTIONAL DISORDERS OF WOMEN. R. J. STRASENBURGH COMPANY, Rochester, N. Y.
Filed September 26, 1919. Serial No. 123,179. PUBLISHED MARCH 16, 1920.

132,825. CERTAIN NAMED PAPER AND STATIONERY. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed October 4, 1919. Serial No. 123,462. PUBLISHED APRIL 6, 1920.

132,826. CERTAIN NAMED PAPER AND STATIONERY. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed October 4, 1919. Serial No. 123,463. PUBLISHED APRIL 6, 1920.

132,827. CERTAIN NAMED PAPER AND STATIONERY. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed November 10, 1919. Serial No. 124,737. PUBLISHED APRIL 13, 1920.

132,828. DENTIFRICE AND ANTISEPTIC DEODORANT. MARY E. SULLIVAN, Richmond, Va.
Filed December 8, 1919. Serial No. 125,729. PUBLISHED APRIL 6, 1920.

132,829. LUBRICATING-OIL. FRANK P. SYMONDS, Salem, Mass.
Filed December 3, 1919. Serial No. 125,548. PUBLISHED APRIL 6, 1920.

132,830. QUININ ETHYL CARBONATE. TAKAMINE LABORATORY INC., New York, N. Y.
Filed December 10, 1919. Serial No. 125,812. PUBLISHED APRIL 6, 1920.

132,831. WHEAT-FLOUR. W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y.
Filed January 31, 1920. Serial No. 127,808. PUBLISHED APRIL 13, 1920.

132,832. BITUMINOUS COAL. TAYLOR COAL COMPANY, Chicago, Ill.
Filed October 20, 1919. Serial No. 124,022. PUBLISHED MARCH 23, 1920.

132,833. RICE WAFERS. TEE-O MFG. CO., New York, N. Y.
Filed August 9, 1919. Serial No. 121,493. PUBLISHED APRIL 6, 1920.

132,834. POCKET-CLIPS FOR FOUNTAIN-PENS AND PENCILS, PAPER-CLIPS, PAPER-FASTENERS, AND PAPER-PERFORATORS. HERBERT TERRY & SONS LD., Redditch, England.
Filed July 16, 1919. Serial No. 120,626. PUBLISHED APRIL 6, 1920.

132,835. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. JOHN R. THOMPSON CO., Chicago, Ill.
Filed December 10, 1919. Serial No. 125,810. PUBLISHED APRIL 13, 1920.

132,836. LIQUID AND PASTE SHAMPOOS. THE TIPP WHIP COMPANY, Tippecanoe City, Ohio.
Filed September 22, 1919. Serial No. 123,002. PUBLISHED APRIL 13, 1920.

132,837. HAIR-NETS. RUSSELL B. TOWER, Boston, Mass.
Filed September 3, 1919. Serial No. 122,271. PUBLISHED FEBRUARY 10, 1920.

132,838. RADIATOR-TRAPS. THE TRANE COMPANY, La Crosse, Wis.
Filed November 3, 1919. Serial No. 124,504. PUBLISHED MARCH 23, 1920.

132,839. LOGS INTENDED FOR USE AS SAWMILL MATERIAL. THE TROPICS CORPORATION, New York, N. Y.
Filed October 28, 1919. Serial No. 124,288. PUBLISHED MARCH 23, 1920.

132,840. TIMBER AND LUMBER, DRESSED AND UNDRESSED. THE TROPICS CORPORATION, New York, N. Y.
Filed January 31, 1920. Serial No. 127,845. PUBLISHED MARCH 23, 1920.

132,841. STEEL PEN-POINTS. THE TURNER & HARRISON PEN MFG. CO., INC., Philadelphia, Pa.
Filed December 23, 1919. Serial No. 126,398. PUBLISHED APRIL 6, 1920.

132,842. CANNED PEACHES AND CANNED APRICOTS. UNITED CANNERIES COMPANY OF CALIFORNIA, Oakland, Calif.
Filed December 27, 1919. Serial No. 126,549. PUBLISHED APRIL 6, 1920.

132,843. PHONOGRAPHS. UNITED PHONOGRAPH CORPORATION, Omaha, Nebr.
Filed January 26, 1920. Serial No. 127,580. PUBLISHED APRIL 13, 1920.

132,844. CONCENTRATED FOOD, COMPRISING A COMBINATION OF ANY FORM OF BREAD AND CHOCOLATE. U. S. EMERGENCY RATION CORP. Belleville, N. J.
Filed February 5, 1919. Serial No. 115,650. PUBLISHED APRIL 13, 1920.

132,845. DIAPHRAGMS FOR SOUND-BOXES USED ON TALKING-MACHINES. FRANK VICTOR VAN DE MYER, New York, N. Y.
Filed July 24, 1919. Serial No. 120,892. PUBLISHED MARCH 16, 1920.

132,846. INSTRUMENTS FOR PRODUCING COMICAL IMITATIVE SOUNDS. BLAINE VAN HORN, Philadelphia, Pa.
Filed December 13, 1919. Serial No. 125,992. PUBLISHED APRIL 6, 1920.

132,847. EYE-WASH. VALMAS DRUG COMPANY, INC., Rochester, N. Y.
Filed September 22, 1919. Serial No. 123,007. PUBLISHED APRIL 13, 1920.

132,848. PREPARATION FOR THE TREATMENT OF CERTAIN NAMED AILMENTS. S. D. VANSICKLE ESTATE, Ashland, Pa.
Filed March 31, 1919. Serial No. 117,074. PUBLISHED APRIL 6, 1920.

132,849. CHOCOLATE. VEE BEE CHOCOLATE CO., New York, N. Y.
Filed December 30, 1919. Serial No. 126,663. PUBLISHED APRIL 6, 1920.

132,850. CHOCOLATE. VEE BEE CHOCOLATE CO., New York, N. Y.
Filed December 30, 1919. Serial No. 126,664. PUBLISHED APRIL 6, 1920.

132,851. CANNED FISH, MORE PARTICULARLY HERRING AND SARDINES. VON BREMEN, ASCHE & CO., New York, N. Y.
Filed January 29, 1920. Serial No. 127,744. PUBLISHED APRIL 13, 1920.

132,852. MAYONNAISE. GEORGE F. VON HOLT, Woodhaven, N. Y.
Filed December 19, 1919. Serial No. 126,265. PUBLISHED APRIL 6, 1920.

132,853. PLACKET-FASTENERS, GLOVE-FASTENERS, BUTTONS, SNAP-FASTENERS, AND CLASPS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,064. PUBLISHED MARCH 23, 1920.

132,854. CERTAIN NAMED NOTIONS. WALDES & CO., Prague, Bohemia.
Filed January 15, 1920. Serial No. 127,190. PUBLISHED MARCH 23, 1920.

132,855. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,604. PUBLISHED APRIL 6, 1920.

132,856. HAIR AND SCALP TONIC. DALLAS T. WARD, Chicago, Ill.
Filed December 8, 1919. Serial No. 125,735. PUBLISHED MARCH 30, 1920.

132,857. WHEAT-FLOUR. WASHBURN CROSBY CO., Minneapolis, Minn.
Filed March 1, 1920. Serial No. 129,111. PUBLISHED APRIL 13, 1920.

132,858. OILS OF COTTON-SEED OR THE LIKE FOR FOOD PURPOSES AND FOR CHOCOLATES. JULES WEBER, INC., New York, N. Y.
Filed November 24, 1919. Serial No. 125,269. PUBLISHED APRIL 6, 1920.

132,859. FIELD-SEEDS. N. WERTHEIMER & SONS, Ligonier, Ind.
Filed August 9, 1919. Serial No. 121,510. PUBLISHED MARCH 23, 1920.

132,860. HORSE FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,192. PUBLISHED APRIL 13, 1920.

132,861. SCRATCH FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,194. PUBLISHED APRIL 13, 1920.

132,862. SCRATCH FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,195. PUBLISHED APRIL 13, 1920.

132,863. UNFINISHED LUMBER, TIMBER, AND LOGS. WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn.
Filed April 30, 1919. Serial No. 118,028. PUBLISHED MARCH 23, 1920.

132,864. CONCENTRATED TONIC FOR INCREASING THE PRODUCTION AND FERTILITY OF EGGS. THE WIGHT COMPANY, Lamoni, Iowa.
Filed May 22, 1919. Serial No. 118,815. PUBLISHED JULY 15, 1919.

132,865. SOLE-LEATHER. WILDER & COMPANY, Chicago, Ill.
Filed January 6, 1920. Serial No. 126,888. PUBLISHED MARCH 23, 1920.

132,866. TOILET WATER. WILDROOT CO., INC., Buffalo, N. Y.
Filed August 6, 1919. Serial No. 121,327. PUBLISHED MARCH 16, 1920.

132,867. CERTAIN NAMED FOODS. WOLF & BIRD, San Francisco, Calif.
Filed November 6, 1919. Serial No. 124,634. PUBLISHED APRIL 6, 1920.

132,868. PRINTING-PAPER, WRITING-PAPER, WRAPPING-PAPER, STRAWBOARDS, SHIPPING-TAGS, MAILING-ENVELOPS, AND TOILET-PAPER. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed December 24, 1919. Serial No. 126,434. PUBLISHED APRIL 13, 1920.

132,869. LIQUID MEDICINE IN THE NATURE OF A TONIC FOR THE NERVES AND DIGESTIVE SYSTEM. PAUL C. ZIESCHANG, Columbus, Ohio.
Filed September 22, 1919. Serial No. 123,010. PUBLISHED JANUARY 13, 1920.

132,870. INSECTICIDES. ZIN MFG. COMPANY, Kansas City, Mo.
Filed December 9, 1919. Serial No. 125,765. PUBLISHED APRIL 13, 1920.

132,871. PREPARATION FOR USE IN THE TREATMENT OF BUNIONS. ROY A. HEMIG, Laporte, Ind.
Filed August 29, 1919. Serial No. 122,119. PUBLISHED MARCH 16, 1920.

TRADE-MARK REGISTRATIONS RENEWED.

18,260. FLOWER AND VEGETABLE SEEDS. W. ATLEE BURPEE & CO., Philadelphia, Pa.
Registered August 5, 1890. Renewed August 5, 1920.

18,602. WRITING-PAPER. SOUTHWORTH COMPANY, Mittineague, Mass.
Registered November 4, 1890. Renewed November 4, 1920.

LABELS

REGISTERED JUNE 29, 1920.

21,876.—*Title:* "ATMORE'S MAKE-A-CAKE." (For a Preparation for Making Cake.) ATMORE & SON, INC., Philadelphia, Pa. Filed January 20, 1920.

21,877.—*Title:* "BALLARD BUCKWHEAT." (For Buckwheat.) BALLARD & BALLARD CO., Louisville, Ky. Filed January 14, 1920.

21,878.—*Title:* "BALLARD PANCAKE." (For Flour.) BALLARD & BALLARD CO., Louisville, Ky. Filed January 14, 1920.

21,879.—*Title:* "BALLARD BISCUIT FLOUR." (For Flour.) BALLARD & BALLARD CO., Louisville, Ky. Filed January 14, 1920.

21,880.—"RAINBOW GEORGIA CANE." (For Syrup.) J. RALSTON CARGILL, Americus, Ga. Filed January 7, 1920.

21,881.—*Title:* "CO-OPERATIVE EVAPORATED MILK." (For Evaporated Milk.) CO-OPERATIVE FOOD PRODUCTS ASSOCIATION, Seattle, Wash. Filed January 13, 1920.

21,882.—*Title:* "CRENSHAW'S SUPERIOR." (For Butter.) CRENSHAW BROS. PRODUCE CO. INC., Tampa, Fla. Filed January 3, 1920.

21,883.—*Title:* "FAULTLESS BALLOONS." (For Toy Rubber Balloons.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed January 2, 1920.

21,884.—*Title:* "FAULTLESS BALLOONS." (For Toy Rubber Balloons.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed January 2, 1920.

21,885.—*Title:* "BAKER'S TOASTED COCO-NUTLETS." (For Packaged Cocoanut.) THE FRANKLIN BAKER COMPANY, Philadelphia, Pa. Filed January 9, 1920.

21,886.—*Title:* "SAVORY." (For Canned Tomatoes.) CHARLES A. LOOCKERMAN, Crisfield, Md. Filed January 20, 1920.

21,887.—*Title:* "HARVARD MEN'S FINEST UNDERWEAR." (For Men's Underwear.) ISIDORE L. MARROW, New York, N. Y. Filed April 29, 1920.

21,888.—*Title:* "HARVARD BOYS' FINEST UNDERWEAR." (For Boys' Underwear.) ISIDORE L. MARROW, New York, N. Y. Filed May 4, 1920.

21,889.—*Title:* "CARB-OUT CARBON REMOVER." (For Lubricating-Solvent and Carbon-Remover.) JOHN H. MITCHELL, Baltimore, Md. Filed January 30, 1920.

21,890.—*Title:* "MIRACLE." (For Beverages.) MIRACLE COMPANY, Chicago, Ill. Filed January 6, 1920.

21,891.—*Title:* "NELSON'S." (For Canned Fruit.) OLAF A. NELSON, San Francisco, Calif. Filed January 20, 1920.

21,892.—*Title:* "MARVEL." (For Oranges.) PLACENTIA MUTUAL ORANGE ASSOCIATION, Placentia, Calif. Filed January 20, 1920.

21,893.—*Title:* "THE BUTTER THAT BETTERS THE BREAD." (For Butter.) J. POEHLMAN & SONS, Baltimore, Md. Filed January 8, 1920.

21,894.—*Title:* "ROYAL LEMON." (For a Cleaner.) ROYAL LEMON PRODUCTS CO., St. Paul, Minn. Filed June 19, 1919.

21,895.—*Title:* "SUGARLOAF." (For Candy.) SCHULER CHOCOLATE FACTORY, Winona, Minn. Filed January 24, 1920.

21,896.—*Title:* "ROXANA BELLE NON-ALCOHOLIC IMITATION SCUPPERNONG-WINE." (For Roxana Belle Imitation Scuppernong-Wine.) SOUTHERN FOOD PRODUCTS CO., Cincinnati, Ohio. Filed January 24, 1920.

21,897.—*Title:* "RICHMOND." (For Evaporated Milk, Unsweetened.) UTAH CONDENSED MILK CO., San Francisco, Calif. Filed January 27, 1920.

21,898.—*Title:* "ARMORY BRAND." (For Various Items of Dried Products—Namely, Apricots, Peaches, Prunes, and Plums.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed January 2, 1920.

21,899.—*Title:* "WARD'S DE LUXE CAKES." (For Cakes.) WARD BAKING COMPANY, New York, N. Y. Filed January 24, 1920.

21,900.—*Title:* "THE VANITY HAIR NET." (For Hair-Nets.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed January 7, 1920.

21,901.—*Title:* "CHEVONET HAIR NET." (For Hair-Nets.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed January 7, 1920.

21,902.—*Title:* "WEST GOLD SEAL HAIR NET." (For Hair-Nets.) AUGUSTUS A. WEST, Philadelphia, Pa Filed January 12, 1920.

PRINTS

REGISTERED JUNE 29, 1920.

5,259.—*Title:* "LAXATOIDS." (For Laxative Cathartic.) JAMES L. FARNUM, Columbus, Ohio. Filed January 14, 1920.

5,260.—*Title:* "HOW WASHING YOUR FACE MAKES ROUGE AND POWDER HARMLESS." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed January 12, 1920.

5,261.—*Title:* "TELL ME THE TRUTH." (For Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed January 16, 1920.

5,262.—*Title:* "SPEED WAGON." (For Motor-Trucks.) REO MOTOR CAR CO., Lansing, Mich. Filed November 22, 1919.

5,263.—*Title:* "'SPEED WAGON' AN EXCLUSIVE REO APPELLATION." (For Motor-Trucks.) REO MOTOR CAR CO., Lansing, Mich. Filed November 22, 1919.

5,264.—*Title:* "RUBBERSET." (For Tooth, Lather, and Hair Brushes.) RUBBER & CELLULOID PRODUCTS COMPANY, Newark, N. J. Filed January 10, 1920.

5,265.—*Title:* "WILL YOUR CAR DO THIS?" (For Brake-Lining.). THERMOID RUBBER COMPANY, Trenton, N. J. Filed January 13, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE STADEKER.

Decided March 7, 1919.

PATENTS—INVENTION—HANDLE MADE OF METAL ROD HAVING SERIES OF LATERAL BENDS.

Claims for a windshield-wiper in which the feature relied upon for patentability is a handle to be grasped in the palm of the hand, consisting of a wire or rod provided with a series of lateral bends extending from side to side in zigzag manner to form a wide flat vertical handle arranged in a plane parallel to the windshield, *Held* devoid of invention in view of a patent for a similar device which disclosed but a single bend, it appearing that the idea of forming a rod in a series of bends was a well-known mechanical expedient, (citing *Towne Steering Wheel Co.* v. *Lee*, 199 Fed. Rep., 777.)

[Affirmed by the Court of Appeals of the District of Columbia, 275 O. G., 1023.]

APPEAL from Examiners-in-Chief.

WINDSHIELD-WIPER.

Mr. A. Miller Belfield for the applicant.

NEWTON, *Commissioner:*

This is an appeal from the decision of the Examiners-in-Chief affirming the action of the Primary Examiner in his final rejection of claims 1 to 5, inclusive, of which claims 1 and 5 are examples:

1. A wind shield cleaner comprising a metallic rod bent upon itself to form cleaning and handle portions, the handle portion being provided with a series of lateral bends forming a substantially flat vertical handle lying in a plane substantially parallel with the wind shield.

5. A device of the class specified consisting of a metallic rod bent upon itself to form a cleaning portion and a handle portion, the latter portion being provided with a series of lateral bends extending from side to side in zigzag manner to form a wide, flat, vertical handle to permit the device to be firmly grasped and to rest flatwise against the palm of the operator's hand.

The references are: Parsons, No. 523,004, July 17, 1894; Devore, No. 525,189, August 28, 1894; Wolfe, No. 1,171,377, February 8, 1916; Goodrich, No. 1,211,698, January 9, 1917; German patent to Preus, No. 269,319, January 17, 1914.

The invention covered by the rejected claims is a windshield-wiper, and the claims are all substantially met by the German patent, with the exception of a series of lateral bends in the handle. The Examiners-in-Chief have found a similar construction—that is, lateral bends—in the screw-driver handle of the Devore patent. The handle of the German patent includes a single bend. It is lateral or sidewise of the rod. Applicant contends that the disadvantage of the single bend in the handle of the German patent is that it can not be readily grasped in the palm of the hand, whereas applicant's may be.

The statement in claim 1—

> lying in a plane substantially parallel with the wind shield—

has been objected to as embodying new matter not originally disclosed; but the showing in the drawing, together with the statement in the specification (pp. 2 and 3)—

> • • • by bending the same into a series of *lateral* bends, a substantial handle is formed which may be grasped and firmly held and will not slip or turn in the hand,

is held to be a sufficient foundation for this limitation. But to zigzag the rod to form a handle that will not turn in the palm of the hand is such an old mechanical expedient that it is not believed sufficient to sustain a claim, even though it be limited to being in the plane of the windshield.

The case has many features similar to those discussed by the circuit court of appeals in *Towne Steering Wheel Co.* v. *Lee*, (199 Fed. Rep., 777,) in which it was held:

> It is common knowledge that the expedient of roughening and corrugating the surfaces of handles of various implements is very old, and instances may be found in the handles of tennis rackets, fishing rods and baseball clubs, and that the handles of swords and knives from time immemorial have been indented on the inner side so as to render more firm the grasp of the fingers,

and while it was new to indent the inner surface of a steering-wheel with scallops or indentations to prevent the hand from slipping the court sustained a demurrer and held the patent void on its face.

Applicant has filed some exhibits indicating that his windshield-wiper has gone into extensive use; but this may be on account of his superior business management or in the cheapness of construction of his device. At any rate the change over the prior art will not, in my opinion, support the claims, and the decision of the Examiners-in-Chief is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE STADEKER.

Decided May 5, 1920.

PATENTS—INVENTION—WINDSHIELD-CLEANER.

Claims for windshield-cleaner in which the feature relied upon for patentability is a handle consisting of a wire or rod bent in zigzag form *Held* devoid of invention.

Mr. J. H. Milans and *Mr. C. T. Milans* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents (275 O. G., 1023) denying five claims for a patent on an automobile-windshield cleaner. Claim 5 reads as follows:

5. A device of the class specified consisting of a metallic rod bent upon itself to form a cleaning portion and a handle portion, the latter portion being provided with a series of lateral bends extending from side to side in zigzag manner to form a wide, flat, vertical handle to permit the device to be firmly grasped and to rest flatwise against the palm of the operator's hand.

While appellant's device apparantly possesses utility, we are constrained to agree with the Patent Office that its evolution did not involve invention. The patents to Wolfe, (No. 1,171,377, February 8, 1916;) Devore, (No. 525,189, August 28, 1894,) and Goodrich, (No. 1,211,698, January 9, 1917,) as found by the Commissioner, disclose every element of the device of the issue. The decision must be affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

REID, REID, AND KELLEY *v.* KITSELMAN. KITSELMAN *v.* REID, REID, AND KELLEY.

Decided May 3, 1920.

PATENTS—INTERFERENCE—PRIORITY.

The decision of the Commissioner awarding certain counts to K. and others to R., R., and K. affirmed.

For Commissioner's Decision see 275 O. G., 624.

Mr. J. C. Dowell for the appellants.

Mr. Wm. S. Hodges for the appellees.

MEMORANDUM OPINION BY CHIEF JUSTICE SMYTH.

Reid, Reid, and Kelley were placed in interference with Kitselman concerning a device for producing woven-wire fencing. There are fifty-seven counts involved. Space will not permit us to set them all out, and it is difficult to select a few that would be typical. Therefore, we refer those interested to the opinion of the Examiner of Interferences, where all the counts can be found. Some of the counts were awarded to Reid, Reid, and Kelley, and others to Kitselman. Each side appeals from so much of the decision as is against it.

The three tribunals of the Patent Office concur as to the disposition of all the claims except five, and as to those the Examiners-in-Chief and the Commissioner are in accord.

The questions involved are somewhat intricate. We have studied them with care. It is not necessary to set down here the process by which we have reached a determination, because the Examiners-in-Chief and the Commissioner have thoroughly analyzed the matter in their respective opinions, and we approve their conclusions and the reasoning upon which it rests. The Commissioner awarded Kitselman priority as to counts 1 to 18, inclusive, 20 to 36, inclusive, 38 to 45, inclusive, 48 to 52, inclusive, 54 and 55; and to Reid, Reid, and Kelley he awarded priority as to counts 19, 37, 46, 47, 53, 56, and 57. His decision is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

KITSELMAN *v.* REID, REID, AND KELLEY.

Decided May 3, 1920.

PATENTS—INTERFERENCE—PRIORITY.

Decision of the Commissioner of Patents awarding Priority to R., R., and K. affirmed.

For Commissioner's Decision see 275 O. G., 623.

Mr. Wm. S. Hodges for the appellant.

Mr. J. C. Dowell for the appellee.

SMYTH, *C. J.:*

From a decision by the Commissioner of Patents awarding priority to Reid, Reid, and Kelley, the senior parties, in an interference, Kitselman appeals.

The invention involved relates to double-series machines for making two rolls of fence simultaneously. This appeal is a companion of the appeal in Nos. 1303 and 1304, in which the same parties are concerned, this day decided. The three tribunals of the Patent Office concur in awarding priority to Reid, Reid, and Kelley. Where this is so, unless there is manifest error, the decision of the Commissioner should be affirmed. (*Greenawalt* v. *Dwight*, 258 Fed., 982, and cases therein cited; *Hopkins* v. *Riegger*, 262 Fed., 642, and *Kennicott* v. *Caps*, 262 Fed., 641.) We find no such error in this case, and therefore the decision of the Commissioner is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE SORUM.

Decided May 3, 1920.

PATENTS—PATENTABILITY—INVENTION.

Although the prior art disclosed in one patent the combination of an adding-machine and an ejecting mechanism which would eject the smallest number of coins necessary to be dispensed to pay each item of a pay-roll and in another a machine for automatically recording the different denominations of coins and paper money necessary to make up any given amount, *Held* that it was invention to combine an adding-machine with a denominationalizer, whereby it could be determined in advance the number of bills and coins which it would be necessary to obtain at the bank to pay each item of a pay-roll, which was a new result.

Mr. H. C. Robb and *Mr. J. F. Robb* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.:*

Appeal from a Patent Office decision rejecting seventeen claims, from 5 to 21, inclusive, of which claims 7 and 20 are sufficiently illustrative:

7. The combination with an adding machine comprising an accumulating mechanism and manipulating devices controlling the setting up of amounts to be accumulated, of denominational counters, and means for operating the counters automatically and incident to the operation of the accumulating mechanism to determine the number of units of different denominations or values necessary to make up each amount set up by the manipulative devices for accumulation.

20. In a machine of the class described, the combination of a plurality of counting devices, an actuator associated with each counting device, operating means for the actuators normally inoperative relative thereto, and means for initially selecting one or more of the actuators to render the same operative in respect to said operating means, and accounting mechanism including accounting instrumentalities adapted for preliminary selection by the aforesaid selecting means, and operating means for said instrumentalities actuated from the above-mentioned operating means.

The pay-rolls of large employers of labor are made up in advance and, in making up those pay-rolls, it is desirable that a printed record of each wage item be kept and a constant total of all items carried. If this is done, time and labor will be conserved, because the specific number of bills and coins required to be obtained at the bank will be known in advance. It was to meet this condition that the applicant brought together his combination. Prior to the entry of Sorum into the field, Griffen had invented a machine—

for automatically registering or recording the different denominations of coin and paper money necessary to make up any given amount. (Patent 979,391, December 20, 1910.)

In other words, the function of Griffen's machine is automatically to separate a given amount into its elements. Marks (British 28,084, December 5, 1912) had evolved a combined adding-machine and ejecting mechanism; that is to say, it is necessary in the Marks machine to guess at the approximate amount needed, place it in the machine, and then have it separated into its elements. The Commissioner says of this invention:

Instead of listing on what applicant refers to as a "denominationalizing" mechanism the smallest number of coins necessary to pay the roll, the smallest number of coins are ejected to pay each item of the roll.

The Patent Office tribunals were of the view that no invention was involved—

in combining with the adding machine a denominationalizing mechanism instead of coin ejectors.

We are unable to accept this conclusion. Appellant stands forth as the originator of the idea. Up to the time he gave it expression, it apparently had occurred to no one else. He not only conceived the idea of combining an adding-machine with a denominationalizer but put that idea into effect by so combining the two machines as to bring about a new and useful result. In the circumstances, we think that what he has done amounts to invention. Inasmuch as the art is comparatively new, the machines brought into coöperation by the applicant complicated, and the advance achieved by that coöperation marked, there is ample room for the application of the general rule—

that if a new combination and arrangement of known elements produce a new and beneficial result, never attained before, it is evidence of invention. (*Loom Co.* v. *Higgins*, 105 U. S., 591.)

The observation of the Court in *Diamond Rubber Co.* v. *Consolidated Rubber Tire Co.* (220 U. S., 428) is here pertinent:

The law has other tests of the invention than subtle conjectures of what might have been seen and yet was not. It regards a change as evidence of novelty, the acceptance and utility of change as a further evidence, even as demonstration.

Under the rule announced in the Eastwood and Harbeck cases (33 App. D. C., 291, and 39 App. D. C., 555) applicant would be entitled to a patent even if this were a doubtful case.

The decision is reversed and the case remanded for the allowance of such of the claims as will adequately cover applicant's invention.

Reversed and remanded.

The decision of the First Assistant Commissioner reads as follows:

Applicant appeals from the action of the Examiners-in-Chief affirming the action of the Primary Examiner in finally rejecting claims 5 to 21. The rejection of claims 1 to 4 was also affirmed; but no appeal was taken as to those claims.

Of the appealed claims, claims 6, 11, 16, and 20 are typical.

"6. In a machine of the class described, the combination of keys bearing indicia and adapted for setting up predetermined amounts, means for accumulating the amounts set up by the keys on operation thereof, and means operable as an incident to the accumulation of amounts for determining the number of units of different denominations of money required to make up each amount accumulated by the accumulating means aforesaid.

"11. In a machine of the class described, the combination of an adding machine, counting mechanism separate from said machine, means to control action of the counting mechanism incident to controlling of the operation of the adding machine, and means to operate the adding machine and counting mechanism conjointly and one of them alone.

"16. In a machine of the class described, the combination with an adding machine comprising keyboard manipulative devices, accumulating mechanism controlled by said devices, an actuator for the accumulating mechanism, a plurality of counters, selector means intermediate the counters and manipulative devices aforesaid, and means to render the counters operative and inoperative with respect to the actuator.

"20. In a machine of the class described, the combination of a plurality of counting devices, an actuator associated with each counting device, operating means for the actuators normally inoperative relative thereto, and means for initially selecting one or more of the actuators to render the same operative in respect to said operating means, and accounting mechanism including accounting instrumentalities adapted for preliminary selection by the aforesaid selecting means, and operating means for said instrumentalities, actuated from the above mentioned operating means."

The references cited are: Debremond, 626,528, June 6, 1899; Smith, 913,779, March 2, 1909; Kleinhans, 976,129, November 15, 1910; Morrison, 977,393, November 29, 1910; Griffen, 979,391, December 20, 1910; Foster, 1,128,594, February 16, 1915; Mark, British, 28,084, December 5, 1912.

The appealed claims relate to the combination of an adding-machine and a counting mechanism, the machine being primarily intended for use in making up pay-rolls, so that there can be determined not only the total amount of the roll and the individual items but the smallest number of coins or notes of certain denominations which must be obtained in order to make the payments. The adding-machine is not claimed to be applicant's invention, and no details of the counting mechanism are included in the claims. In his brief applicant gives as a specific instance of the operation of the machine the following:

"Considered in another aspect, the combination machine of this case might be said properly to be one which takes an item, say $16.87, adds said item to previous items registered, lists said item upon a suitable tape, and divides said item into the least number of bills and coins going to make up the same. The last mentioned operation is done by moving the ten-dollar register of the denominationalizing mechanism one increment, the five-dollar register one increment, the one-dollar register one increment, the fifty-cent register one increment, the twenty-five-cent register one increment, the ten-cent register one increment, and the penny register two increments."

The British patent to Marks shows a combined adding-machine and ejecting mechanism. It differs from the structure shown in this application in that certain bars which are operated when the adding-machine is operated eject coins from coin-receptacles instead of actuating-counters. In other words, instead of listing on what applicant refers to as a "denominationalizing" mechanism the smallest number of coins necessary to pay the roll the smallest number of coins are ejected to pay each item of the roll.

The real question involved in the case is whether there would be any invention in combining with the adding-machine a "denominationalizing" mechanism instead of coin-ejectors.

It was old in the art to denominationalize a pay-roll. The patent to Griffen shows a mechanism designed for this purpose. There is no adding-machine shown in this patent, but the denominationalizer is directly operated by keys. The patent to Foster was cited as showing the conversion of a key-actuated coin-discharging machine into a coin registering or counting machine by locating in the space occupied by the coin-receptacles coin-counting mechanism actuated by the coin-ejecting slides.

The Commissioner's decision in *ex parte Thomas* (251 O. G., 839) has been published since the decision of the Examiners-in-Chief, and in view of the ruling therein the Foster patent must be held to be not pertinent, since it was granted after this application was filed and no such structure as herein claimed is claimed therein.

The Examiner also cited other references as showing the use of counters in connection with coin-ejectors.

As noted above, there is no claim herein to the counting mechanism; nor is there any claim herein to the specific mechanism by which the operating-bars are caused to operate the counters. In the operation of the machine a counter is sometimes moved one step and sometimes two. There is no specific mechanism shown or described as to how this operation is brought about. After describing the operation when the counter is to be moved one step it is stated that means may be provided to cause the counter to be moved more than one step. Specifically the only means shown is a slide having two lugs thereon so placed that when an actuator comes into contact with one the counter is moved one increment and when the counter comes into contact with another the counter is moved two increments. In the machine shown there is no necessity for moving the counter more than two increments, since two counters are provided for the pennies, the dimes, and the twenty dollars.

In the machine of the British patent similar mechanism is provided whereby one coin or two coins will be ejected from the coin-chutes, according to the amount set up on the adding-machine. There would apparently be no difficulty in adapting the operating mechanism of this machine to operate a counter one or two steps rather than eject one or two coins, and, as stated above, no claim has been made to this specific detail of construction.

It is thought that the patent to Griffen, which shows a denominationalizing machine, as well as the other patents of record, except the Foster patent, showing the use of counters, would obviously suggest that the mechanism of the British patent might be modified to use the counters in place of the coin-ejectors.

It must be held, therefore, that the appealed claims state no invention over the prior art and for that reason were properly rejected.

The decision of the Examiners-in-Chief is affirmed.

Supreme Court of the United States.

BEIDLER *v.* THE UNITED STATES.

Decided June 7, 1920.

1. PATENTS—VALIDITY—SUFFICIENCY OF DISCLOSURE.

A correct and adequate description or disclosure of a claimed discovery (which in the case of a machine involves particularly the operation of it) is essential to the validity of a patent for the reason that such a disclosure is necessary in order to give the public the benefit of the invention after the patent shall expire.

2. SAME—SAME—APPARATUS INOPERATIVE WITHOUT MATERIAL CHANGES FROM CONSTRUCTION DESCRIBED.

Letters Patent No. 1,057,397, to Beidler, for an improvement in photographing and developing apparatus, *Held* void for lack of sufficient disclosure, since for successful operation it would require a manipulation which could not be performed with the construction disclosed without material changes thereof and which did not accord with the mode of operation set forth in the description.

APPEAL from the Court of Claims.

Mr. Frank S. Appleman for the appellant.

The Attorney-General for the United States.

Mr. Justice CLARKE delivered the opinion of the Court.

This is a suit to recover damages for the infringement of five of the forty-one claims of Letters Patent No. 1,057,397 applied for March 23, 1907, and granted on March 25, 1913.

The specification describes the claimed invention as an improvement in photographing and developing apparatus, and as designed primarily for reproducing writings, drawings, pictures or the like—

novel means being also provided to convey the sensitized film through a series of receptacles containing suitable developing and fixing fluids or through suitable baths, according to requirements.

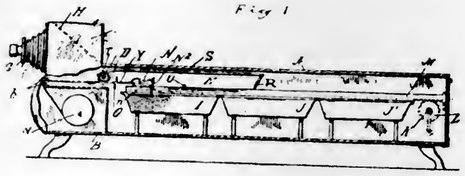
The patent is for a machine made up of a combination of elements all of which were old, to produce a result which was old but by a method of coordination and operation which it is claimed is new and useful. The invention is declared in the specification to consist in—

the details of construction and in the arrangement and combination of the parts,

as "set forth and claimed" by the inventor.

Figure 1 of the drawings, forming a part of the specification, will aid in explaining the construction and function of the invention as claimed and in determining the character and extent of the disclosures of the patent.

Fig 1



The described mode of operation is substantially as follows:

W is a roll of sensitized paper or film placed immediately below the exposure-chamber F of a camera, with its sensitized surface uppermost to receive the desired image, reflected from the mirror H. This film is fed into the chamber between the rolls *b*, and thence along the floor thereof to the rollers D where it emerges from the camera and is seized by "clips" or clamps N. These clamps are supported and carried by a rack M, and may be moved to and fro (reciprocated) by turning the pinions L on the shaft K, by means of a crank.

I, J and J′ are shallow pans or "tanks" in which suitable "developing," "fixing," and "washing" solutions or fluids are placed and the whole of the construction to the right of the camera, as we face the print, is inclosed in a light-proof case E, referred to in the patent sometimes as a "compartment" and sometimes as a "chamber." The rack M, and the clamps which hold and support the film, move above the tanks and necessarily above the level of the liquid within them. By turning the pinion L, the rack M is moved outwardly away from the camera, and the clamps draw the film after them until the required length is attained, when it is severed from the roll by a manually-operated cutter, O. When the film is thus cut to the desired length, obviously only the free end will fall to the surface of the solution in the tank I, and by continuing the outward movement of the rack M, the specification declares, "the film is carried through the several tanks." The "clips" or clamps are set and released automatically and at the limit of the outward movement the film is released and falls into the tank J′. By reversing the turning of the pinions L the rack and clamps are returned inwardly to the camera, so that the operation, just detailed, may be repeated.

The Court of Claims carries into its findings of fact fourteen patents as illustrative of the prior art, and with this exhibit before us we fully agree with that court that the claim of invention of appellant

must be restricted to the disclosed construction and operation of the mechanism for carrying the exposed section of film "through the developing and other solutions or liquids" after it leaves the camera.

In the description of the operation of the machine as we have just given it, there is no provision other than gravity for causing the free end of the film, when it is cut from the roll, to sink into the developing fluid, and the other end of it is held between the clamps, above the surface of the fluid, as it is drawn along from one tank to another. The Court of Claims found that under such conditions of operation all of the film would not be submerged with sufficient rapidity and uniformity to secure a proper and useful development of the image and this conclusion is not seriously disputed. But the appellant contends that the required submergence may be obtained by oscillating the rack and clamps (and thereby the film) back and forth within the range of a few inches when the film is over the first tank I, with the result that the free end of the film, first sinking into the fluid, is turned under and over and the exposed side of it wholly submerged and thereby developed.

In reply to this it is contended by the Government that the disclosures of the patent do not contain any suggestion of a short, reciprocating movement of the rack, such as is thus relied upon, and that the drawings provide for a construction of the machine which would be inoperative if such movement were resorted to.

Upon this subject the finding of the Court of Claims is, that the machine can be rendered operative only—

by resorting to a new oscillating mode of operation evolved by the claimant for submerging and developing the film,

and that such mode of operation is not disclosed in the patent. On the contrary, it is especially found that—

by the method contemplated and disclosed in the patent, the film with the exposed side up, held at one end by the clamps attached to the rack M and moving in a plane above the pans containing the developing and fixing fluids, is intended, by the outward movement of the rack, to be drawn successively through the developing and fixing fluids, the rack moving in one direction only through its entire course, the end of the film next the knife and away from the clamps falling, when severed by the knife, on the surface of the developer in the first pan and submerging by gravity.

Treating this finding by the court as an interpretation of the patent and therefore as a conclusion of law and subject to review, we are brought to the question whether the short, reciprocating movement of the rack, confessedly necessary to successful operation of the machine, is disclosed in the patent, as it must be to render it valid. (Rev. Stats., 4888.)

The only description of the mode of operation of appellant's machine, and the statute requires that this must be the best mode known to the patentee, (Rev. Stats., 4888) is found in the specification and is as follows:

In order to draw the film through the several compartments, I provide a mechanism consisting of a shaft K, having toothed wheels L, which mesh with a rack M, the said rack being suitably guided in the compartment E, and being alternately reciprocated through the rotation of the shaft K, in opposite directions. When the shaft is turned to the right, the said rack will be projected from the compartment until the inner end thereof is nearly above the shaft K. When the shaft is rotated in the opposite direction, the said rack will, of course, be retracted and thrust into the compartment. It is the purpose of this invention that the said rack shall carry clips N, which are designed to clamp on the edges of the film Y and as the said rack is moved outwardly, the film is carried through the several tanks as indicated. The clips are automatically released and set through the contact with trips within the casing in the path of travel of said clips.

We agree with the Court of Claims that this language describes a movement of the rack M, carrying the clamps N, in one direction only—outwardly and progressively away from the camera—until the movement is completed and the film is released, and that the reciprocating movement referred to in the patent is the return of the mechanism for clamping and carrying the film to its initial position for the purpose of repeating the operation.

There is nothing in the disclosure or in the claims to suggest the arresting of the outward movement of the clamps as soon as the film is severed from the roll and the initiating thereupon of a short oscillating movement of the mechanism to and fro, until the film shall have been immersed in the developing liquid sufficiently to bring out the image photographed. It is very clear that no such operation can be derived from the disclosure in the patent, and we agree with the further finding of the Court of Claims that in order to permit "this new oscillating mode of operation evolved by the claimant" material changes would be required in the construction of the machine, from that disclosed in the description and drawings.

The statutes, which are the source of all patent-rights, provide that a valid patent may be granted for a new and useful machine, or for a new and useful improvement thereof (Rev. Stats., 4886), but they require that every applicant for a patent shall file a written description of the manner and process of making and using his invention "in such full, clear, concise, and exact" terms as to enable any person skilled in the art to which it relates to make and construct it, and in case of a machine the description must disclose the best mode in which the inventor has contemplated the application of his discovery. (Rev. Stats., 4888.)

Ever since *Grant et al.* v. *Raymond* (6 Pet., 218, 247) it has been consistently held that a correct and adequate description or disclosure of a claimed discovery (which, in the case of a machine, involves particularly the operation of it) is essential to the validity of a patent, for the reason that such a disclosure is necessary in order to give the public the benefit of the invention after the patent shall expire. The source of the power to grant patents, and the consideration for granting them, is the advantage which the public will derive from them, especially after the expiration of the patent monopoly, when the discoveries embodied in them shall become a part of the public stock of knowledge.

The application of these requirements of the law to our conclusion that the only form of construction of the machine and the only method of operation of it which are disclosed in the patent would not produce a sufficiently uniform and rapid development of the film to render it useful, must result in the approval of the judgment of the Court of Claims, that

the patent is invalid and void, for the reason that it fails to disclose a practical and useful invention.

This result renders it unnecessary to consider the further conclusion of the court below that the use by the United States of photocopying-machines of a type known as "photostat," manufactured and sold under warrant of Letters Patent issued to D. S. Green, No. 1,001,019, would not have constituted an infringement of appellant's patent had it proved to be valid. However, for its bearing on future possible controversy we add that the construction and relation of the two appliances, designed to produce the same result or product, have been fully considered and that we agree with the conclusion of the Court of Claims.

Affirmed.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 1, 1920.

Miller & Miller, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Indianapolis Abattoir Company, Morris and Drover streets, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered February 23, 1892, No. 20,763, to Miller & Miller, Nos. 12 and 14 North Paca street, Baltimore, Md., and a notice of such declaration sent by registered mail to said Miller & Miller at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Miller & Miller, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 7, 1920.

Leo Goldberger, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the International Battery Co., Inc., of 453 Broome street, New York, N. Y., for registration of a trade-mark and trade-mark registered April 25, 1916, No. 109,896, to Leo Goldberger, of 88 Vernon avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Leo Goldberger at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Leo Goldberger, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 9, 1920.

The Phelps Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Maans N. Nelln, of 1019 Third avenue, Rockford, Ill., for registration of a trade-mark and trade-mark registered March 12, 1907, No. 61,226, to The Phelps Co., of Meadville, Pa., and a notice of such declaration sent by registered mail to said The Phelps Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Phelps Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

The Carbon Black Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered June 14, 1881, No. 8,344, to The Carbon Black Company, of New York, N. Y., and a notice of such declaration sent by registered mail to The Carbon Black Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Carbon Black Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

The Charles H. Brown Paint Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 11, 1916, No. 108,008, to The Charles H. Brown Paint Co., of 188 Montague street, New York, N. Y., and the Office having failed to secure service upon The Charles H. Brown Paint Co. at its said address notice is hereby given that unless The Charles H. Brown Paint Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 11, 1920.

American Standard Composition Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Paint & Varnish Co., of 225 Galveston avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-marks registered September 26, 1905, No. 46,584, and September 2, 1902, No. 38,867, to American Standard Composition Co., of Colorado Building, Fourteenth and G streets, Washington, D. C., and a notice of such declaration sent by registered mail to said American Standard Composition Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said American Standard Composition Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

R. F. WHITEHEAD,
First Assistant Commissioner.

INDEX

TO THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

JUNE, 1920.

[Decisions of the Court of Appeals of the District of Columbia are indicated by one star (*), of the United States Circuit Court of Appeals by the letter d, and of the Supreme Court of the United States by two stars (**).]

TABLE OF CASES.

	Page.
Barber. *Ex parte*	201
**Beidler v. The United States	1026
d Bellows and Slack v. The New York Central Railroad Company	827
*Christo Manufacturing Company v. The Christian Moerlein Brewing Company	827
*Cox v. Headley and Thompson	419
*Hartsough v. Gile	421
Kitselman v. Reid, Reid, and Kelley	623
*Kitselman v. Reid, Reid, and Kelley	1024
**Meccano Limited v. John Wanamaker, New York	203
Reid, Reid, and Kelley v. Kitselman	624
*Reid, Reid, and Kelley v. Kitselman	1024
d Reis & Bro., G., Inc., v. Reform Initial Company, Inc., and Gottschalk and Brasch	422
d Rohm *et al.* v. Martin Dennis Co	201
Schneider. *Ex parte*	419
*Sornm. *In re*	1024
Stadeker. *Ex parte*	1023
*Stadeker. *In re*	1023
d Vandenburgh v. Electric Welding Co	423

SUBJECT-MATTER INDEX.

	Page.
Abandoned experiment, sufficiency of test challenged, no attempt made to prove operativeness, *Hartsough v. Gile	421
Appeal to Circuit Court of Appeals from order granting injunction upon insuperable objection appearing, bill dismissed and litigation terminated, **Meccano Limited v. John Wanamaker, New York	203
Certiorari, decree made final in Circuit Court of Appeals, may be taken up by Supreme Court and treated as if on appeal, **Meccano Limited v. John Wanamaker, New York	203
Reviewing interlocutory order, Supreme Court will not consider conflict of decisions or merits, review being only on action of lower court upon theorder, **Meccano Limited v. John Wanamaker, New York	203
Claims construed in light of specification when first made, although originating in application of party dropped out of the case in a three-party interference proceeding, *Cox v. Headley and Thompson	419
On appeal to Commissioner of Patents found indefinite, remanded to Primary Examiner, *ex parte* Schneider	419
Construction of claims, issue relating to subordinate part of machine, operativeness of machine as a whole not basis for award, *Cox v. Headley and Thompson	419
Construction of section 4888, Revised Statutes, d Rohm *et al.* v. Martin Dennis Co	201
Interference, application insufficiently describing machine, refers to earlier application, disclosures taken together enable construction of machine, objection to later application not sustained, Kitselman v. Reid, Reid, and Kelley	623
Claim not patentably different from issue in prior interference, principle of *res adjudicata* not applicable, Reid, Reid, and Kelley v. Kitselman	624
Priority awarded on certain construction of indefinite claim, winning party required to make definite, Reid, Reid, and Kelley v. Kitselman	624
Invention, evidence of must be more than converting failure into success, *ex parte* Schneider	419
Not involved in alleged new relation of printing-press and paper-web, *ex parte* Barber	201
Particular patents, Beidler, No. 1,057,397, photographing and developing apparatus, void for lack of sufficient disclosure, *Beidler v. The United States	1026
Bellows, Nos. 762,796 and 762,858, certain claims void for lack of invention, d Bellows and Slack v. The New York Central Railroad Company	827
Rohm, No. 886,411, process for bating hides, void for failure to disclose invention, d Rohm *et al.* v. Martin Dennis Co	201
Vandenburgh, No. 841,741, reinforcing-bar, limited, not infringed, d Vandenburgh v. Electric Welding Co	423
Vandenburgh, Reissue No. 14,182, reinforcing-bars, claims 1 and 2 void, not warranted by original patent, d Vandenburgh v. Electric Welding Co	423
Patentability, claims construed, unpatentable in view of prior art, **in re* Stadeker	1023
Combination of two machines effecting new and useful result, invention, **in re* Sornm	1024
Mechanical expedient not invention, *ex parte* Stadeker	1023
Substitution of metal for wood not invention, d Bellows and Slack v. The New York Central Railroad Company	827
Substitution of old material for material formerly used, without changing result, not invention, d G. Reis & Bro., Inc., v. Reform Initial Company, Inc., and Gottschalk and Brasch	422
Priority of invention awarded on certain claims, with recommendation by Examiners-in-Chief such claims be barred because of prior patents, affirmed, Reid, Reid, and Kelley v. Kitselman	624
Decision of the Commissioner of Patents affirmed, *Kitselman v. Reid, Reid, and Kelley	1024
*Reid, Reid, and Kelley v. Kitselman	1024

Page.

Reduction to practice, device although increasing cost of manufacture and product not readily salable not ground for holding it inoperative, Kitselman *v.* Reid, Reid, and Kelley..... 623

Suits for infringement, on appeal from interlocutory order, motion for final decision before determination of appeal denied, held such denial proper, **Meccano Limited *v.* John Wanamaker, New York..... 203

Page.

Trade-marks, alcoholic cereal beverage and near-beer beverage goods of the same descriptive properties, *Christo Manufacturing Company *v.* The Christian Moerlein Brewing Company..... 827

Validity of patent, sufficiency of disclosure necessary, so public will receive benefit of invention after expiration of patent, **Beidler *v.* The United States..... 1026

DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

JUNE, 1920.

Decisions of the Court of Appeals of the District of Columbia are indicated by one star (*), of the United States Circuit Court of Appeals by the letter d, and of the Supreme Court of the United States by two stars (**).]

ABANDONED EXPERIMENTS.

INTERFERENCE—PRIORITY.

Where G. built a plow-tractor in the summer of 1914, took it to a farm and tested it, brought it back, and laid it aside until the spring of 1916, where it was observed by licensees of the opposing party, H., who induced G. to file an application, while H. filed his application on July 21, 1915, and promptly perfected his machine and placed it on the market, *Held* that what G. did in 1914 must be regarded as an abandoned experiment in view of his failure to act except under the stimulus of the knowledge of H.'s activity and of the further circumstances that, although the tractor was in the same condition at the time of taking testimony and the sufficiency of the test in 1914 was challenged, no attempt was made to prove its operativeness, and that after said test G. directed his attention to the construction of another machine, which was completed in 1916, and for which he immediately applied for a patent.

[* Hartsough *v.* Gile, 121.

AFFIDAVITS.

See Suits for Infringement.

ANTICIPATION.

See Invention, 1, 6, 7; Particular Patents, 2.

APPEAL TO THE CIRCUIT COURTS OF APPEAL.

See Certiorari, 3; Suits for Infringement.

1. PRELIMINARY ORDER—POWER TO TERMINATE LITIGATION.

"The power of circuit courts of appeals to review preliminary orders granting injunctions arises from section 129, Judicial Code. * * * This power is not limited to mere consideration of, and action upon, the order appealed from; but, if insuperable objection to maintaining the bill clearly appears, it may be dismissed and the litigation terminated."

[** Meccano Limited *v.* John Wanamaker, New York, 203.

2. SAME—SCOPE OF REVIEW.

Whether a preliminary injunction shall be awarded rests in the sound discretion of the trial court. Upon appeal an order granting or denying such an injunction will not be disturbed unless contrary to some rule of equity, or the result of improvident exercise of judicial discretion. [** Id.

APPEAL TO THE COMMISSIONER OF PATENTS.

See Claims.

APPEAL TO THE SUPREME COURT OF THE UNITED STATES.

See Certiorari; Suits for Infringement.

BAR TO CLAIMS.

See Priority of Invention, 1.

CERTIORARI.

See Suits for Infringement.

1. APPEAL AND ERROR—POWER OF SUPREME COURT TO REVIEW DECREES MADE FINAL IN CIRCUIT COURTS OF APPEALS.

Decrees which are declared final under section 128 of the Judicial Code may be taken up on certiorari by the Supreme Court and treated as if on appeal. (Sec. 240, Judicial Code.)

[** Meccano Limited *v.* John Wanamaker, New York, 203.

2. SAME—REVIEW BY SUPREME COURT OF INTERLOCUTORY DECREE.

Upon certiorari by the Supreme Court to a circuit court of appeals bringing up for consideration a decree upon an appeal from an interlocutory order the judgment of the appellate court, exercised upon a view of all relevant circumstances, is entitled to great weight and, except for strong reasons, will not be interfered with. [** Id.

3. SAME—CONFLICT OF DECISIONS—BRINGING UP PRELIMINARY ORDER FOR REVIEW—MERITS NOT CONSIDERED.

Where the Circuit Court of Appeals of the Sixth Circuit held a patent for toys invalid, but granted an injunction against unfair competition in the sale of such toys and infringement of copyright on a trade catalogue, and the Circuit Court of Appeals of the Second Circuit, on appeal from an interlocutory order in another suit brought by the same plaintiff against a customer of defendant for like infringements, denied all relief and refused plaintiff's motion for a final decision on the merits, upon certiorari to the Supreme Court from the latter decision, *Held* that the Supreme Court would not declare which of the conflicting views of the two circuit courts of appeals was right or undertake to decide the several issues involved upon their merits, the matter for review being only the action of the courts below upon the preliminary order. [** Id.

CIRCUIT COURTS OF APPEAL.

See Certiorari; Suits for Infringement.

CLAIMS.

See Construction of Claims; Interference; Invention; Priority of Invention, 1.

PRACTICE—PRESENTED ON APPEAL INDEFINITE.

Where on appeal to the Commissioner it is found that the appealed claims are so indefinite that it is impossible to determine what they cover, the application will be remanded to the Primary Examiner for immediate action, indicating the objections thereto. [*Ex parte* Schneider, 419.

COMBINATION.

See Invention, 9.

CONFLICTING DECISIONS.

See Certiorari, 3.

CONSTRUCTION OF CLAIMS.

1. INTERFERENCE—ISSUE CONSTRUED.
Counts of an interference issue must be given the broadest interpretation they reasonably will support and in the light of the specification where they originated, and this rule is not varied by the fact that the applicant in whose application the claims originated dropped out of the interference after the decision of the Examiner of Interferences.
[*Cox *v.* Headley and Thompson, 419.

2. PRIORITY AWARDED—SUBSEQUENT AMENDMENT.
A count of the interference *Held* indefinite in language, but construed to have a certain meaning. Priority thereon awarded to K., but the Primary Examiner directed to require, after the final adjudication, that such claim be made more definite.
[Reid, Reid, and Kelley *v.* Kitselman, 621.

CONSTRUCTION OF SPECIFICATION AND PATENTS.

See Particular Patents.

CONSTRUCTION OF STATUTES.

See Particular Patents, 3.

NECESSITY OF CLEARLY DISCLOSING INVENTION.
Revised Statutes, section 4888, (Comp. St., sec. 9432,) and the purpose of the patent laws require a full disclosure of the invention before the patent is granted, in order that the public may, at the expiration of the patent, have full use of the invention.
[d Rohm *et al. v.* Martin Dennis Co., 201.

COPYRIGHT.

See Certiorari, 3; Suits for Infringement.

COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Priority of Invention, 1.

DECISIONS OF THE COMMISSIONER OF PATENTS.

See Priority of Invention, 2, 3.

DECISIONS OF THE EXAMINERS-IN-CHIEF.

See Construction of Claims, 1; Priority of Invention, 1.

DECISIONS OF THE EXAMINER OF INTERFERENCES.

See Construction of Claims; Reduction to Practice, 1.

DECREE.

See Certiorari, 1; Suits for Infringement.

DELAY IN PROSECUTING APPLICATION.

See Abandoned Experiments.

DISCLOSURE OF INVENTION.

See Construction of Statutes; Particular Patents, 1, 3; Reduction to Practice, 2.

1. INTERFERENCE—SUFFICIENCY OF TO OTHERS.
Where the specification of an application does not describe all the parts of a complete machine, but refers to an earlier application, and the disclosures taken together are sufficient to enable one skilled in the art to construct a complete machine, *Held* that the objection that the specification of the later application is insufficient is not sustained.
[Kitselman *v.* Reid, Reid, and Kelley, 623.

2. PATENTS—VALIDITY.
A correct and adequate description or disclosure of a claimed discovery (which in the case of a machine involves particularly the operation of it) is essential to the validity of a patent, for the reason that such a disclosure is necessary in order to give the public the benefit of the invention after the patent shall expire.
[**Beidler *v.* The United States, 1026.

DISCRETION OF THE COURT.

See Appeal to the Circuit Courts of Appeal, 2.

DISMISSAL OF BILL.

See Appeal to the Circuit Courts of Appeal, 1.

EARLIER AND LATER PATENTS.

See Disclosure of Invention, 1.

ERROR.

See Certiorari, 1.

EVIDENCE.

See Invention, 2.

EXPIRATION OF PATENT.

See Construction of Statutes; Disclosure of Invention, 2.

FIRST AND ORIGINAL INVENTOR.

See Construction of Claims, 1.

FORMER DECISION CITED.

See Invention, 7; Priority of Invention, 1.

GOODS OF THE SAME DESCRIPTIVE PROPERTIES.

See Trade-Marks.

INDEFINITENESS.

See Claims; Construction of Claims, 2.

INFRINGEMENT.

See Certiorari, 3; Particular Patents, 2; Suits for Infringement.

INTERFERENCE.

See Construction of Claims, 1; Disclosure of Invention, 1; Priority of Invention, 2, 3; Reduction to Practice.

PRIOR ADJUDICATION.
A contention that a count of an interference is not patentably different from the issue in a prior interference between the same parties which had been finally determined does not form a proper basis for invoking the principle of *res adjudicata*, as it is, in effect, merely a denial of the patentability of the count.
[Reid, Reid, and Kelley *v.* Kitselman, 621.

INTERLOCUTORY DECREE.

See Certiorari, 2, 3; Suits for Infringement.

INVENTION.

1. PATENTABILITY—ALLEGED NEW RELATION OF PRINTING-PRESS AND PAPER-WEB.
No invention is involved in leading the web through a printing-press in a specified way where no change in the construction is necessary to accomplish it.
[*Ex parte* Barber, 201.

2. EVIDENCE OF.
The argument that applicant has converted an unsuccessful machine into a successful one is not always convincing, since success may have resulted from reasons other than in the changes over the prior art specified in the claims.
[*Ex parte* Schneider, 419.

3. PATENTABILITY—CHANGE OF MATERIAL.
"A filler form comprising a body of felt compressed * * * and saturated by a water soluble stiffening agent (starch) maintaining it in compressed condition," designed to be used as a filling beneath embroidery-threads, *Held* devoid of invention, it appearing that starched felt was old and that it was old to use other filling material beneath embroidery-threads and the evidence showing that the capacity claimed for the felt in this situation—namely, its expansibility after being freed of starch during washing and so maintaining the "plumpness" of the embroidery—did not exist in any useful degree.
[d G. Reis & Bro., Inc., *v.* Reform Initial Company, Inc., and Gottschalk and Brasch, 422.

4. SAME—SAME.
The use of starched compressed felt, which was old, for a filler-form to be placed beneath embroidery-threads, claimed by the patentee to have the capacity of expanding after being freed of the starch during washing, *Held* devoid of invention as involving only a substitution of an old material for material formerly used for the same purpose, the capacity of the material to so expand being only trifling and having been long known. [d Id.

5. SAME—SUBSTITUTION OF STEEL FOR WOOD.
"The idea of making a car sill of rolled steel straight channel bars which could be purchased in the open market was not the subject of patentable invention."
[d Bellows and Slack *v.* The New York Central Railroad Company, 827.

6. SAME—SAME.
Where it was old to reinforce wooden car-sills by the employment of a reinforcing member extending along the sill between bolsters and to reinforce metal car-sills of the fish-belly type and also to reinforce straight metal channel-bars in other arts, it involved no invention to substitute a straight rolled-steel channel bar for the wooden sill and reinforce it in an analogous way.
[d Id.

7. SAME—HANDLE MADE OF METAL ROD HAVING SERIES OF LATERAL BENDS.
Claims for a windshield-wiper in which the feature relied upon for patentability is a handle to be grasped in the palm of the hand, consisting of a wire or rod provided with a series of lateral bends extending from side to side in zigzag manner to form a wide flat vertical handle arranged in a plane parallel to the windshield, *Held* devoid of invention in view of a patent for a similar device which disclosed but a single bend, it appearing that the idea of forming a rod in a series of bends was a well-known mechanical expedient, (citing *Towne Steering Wheel Co.* v. *Lee*, 196 Fed. Rep., 777.) [*Ex parte* Stadeker, 1023.

8. SAME—WINDSHIELD-CLEANER.
Claims for windshield-cleaner in which the feature relied upon for patentability is a handle consisting of a wire or rod bent in zigzag form *Held* devoid of invention. [*In re* Stadeker, 1023.

9. SAME—COMBINATION.
Although the prior art disclosed in one patent the combination of an adding-machine and an ejecting mechanism which would eject the smallest number of coins necessary to be dispensed to pay each item of a pay-roll and in another a machine for automatically recording the different denominations of coins and paper money necessary to make up any given amount, *Held* that it was invention to combine an adding-machine with a denominationalizer, whereby it could be determined in advance the number of bills and coins which it would be necessary to obtain at the bank to pay each item of a pay-roll, which was a new result. [*In re* Sorum, 1024.

JUDGMENT OF APPELLATE COURT.

See Certiorari, 2.

JUDICIAL CODE.

See Appeal to the Circuit Courts of Appeal, 1; Certiorari, 1.

LICENSEES.

See Abandoned Experiment.

LIMITATION OF PATENT.

See Particular Patents, 4.

MECHANICAL SKILL.

See Disclosure of Invention, 1.

MERITS OF THE CASE.

See Certiorari, 3; Suits for Infringement.

NEW RESULTS.

See Invention, 3, 9.

OPERATIVENESS.

See Abandoned Experiments; Disclosure of Invention, 2; Particular Patents, 1; Reduction to Practice.

OPPOSITION TO REGISTRATION OF TRADE-MARKS.

See Trade-Marks.

PARTICULAR PATENTS.

1. BEIDLER—NO. 1,057,397—PHOTOGRAPHING AND DEVELOPING APPARATUS—INVENTION.
Letters Patent No. 1,057,397, to Beidler, for an improvement in photographing and developing apparatus, *Held* void for lack of sufficient disclosure, since for successful operation it would require a manipulation which could not be performed with the construction disclosed without material changes thereof and which did not accord with the mode of operation set forth in the description. [**Beidler *v.* The United States, 1026.

2. BELLOWS—NO. 762,796—METAL CAR-SILLS—INVENTION.
The Bellows patent, No. 762,796, claims 1, 7, and 10 to 17, and the Bellows patent, No. 762,858, claims 1 to 9, for metal car-sills, *Held* invalid, being devoid of invention in view of the prior art.
[d Bellows and Slack *v.* The New York Central Railroad Company, 827.

3. ROHM—NO. 886,411—PROCESS FOR BATING HIDES—INVENTION.
Rohm patent, No. 886,411, for a process for bating hides, *Held* invalid because of the application's failure to fully and clearly disclose the invention, as required by Revised Statutes, section 4888, (Comp. St., sec. 9432.)
[d Rohm *et al. v.* Martin Dennis Co., 201.

4. VANDENBURGH—NO. 841,741—REINFORCING-BAR LIMITED—NOT INFRINGED.
The Vandenburgh patent, No. 841,741, for a reinforcing-bar for use in concrete work, *Held* limited by the prior art to a bar with kerfs or cuts, in which the attached coil is placed, and a tongue or spur overlapping the kerf and holding the coil in place, and, as so limited, not infringed.
[d Vandenburgh *v.* Electric Welding Co., 423.

5. SAME—REISSUE NO. 14,182—REINFORCING-BAR—HELD INVALID AS NOT WARRANTED BY ORIGINAL PATENT.
Claims 1 and 2 of the Vandenburgh reissue patent, No. 14,182, for reinforcing-bars for use in concrete work, *Held* invalid, as not warranted by the original patent. [d Id.

PATENT LAW.

See Construction of Statutes.

PATENTABILITY.

See Interference; Invention.

POWER OF COURT.

See Appeal to the Circuit Courts of Appeal, 1; Certiorari, 1.

PRACTICE IN THE PATENT OFFICE.

See Priority of Invention, 1.

PRELIMINARY ORDER.

See Appeal to the Circuit Courts of Appeal; Certiorari, 3; Suits for Infringement.

PRIOR ADJUDICATION.

See Interference.

PRIOR PATENT.

See Priority of Invention, 1.

PRIORITY OF INVENTION.

See Abandoned Experiments; Construction of Claims, 2; Reduction to Practice, 1.

1. COUNTS BARRED TO ONE OF THE PARTIES.
Decision of the Examiners-in-Chief awarding priority to R., R., and K. as to certain counts, but recommending that the counts were barred by a prior patent to them, affirmed, following the practice authorized by the Court of Appeals of the District of Columbia in *Norling* v. *Hayes*, (166 O. G., 1282; 37 App. D. C., 169.) [Reid, Reid, and Kelley *v.* Kitselman, 624.

2. INTERFERENCE.
The decision of the Commissioner awarding certain counts to K. and others to R., R., and K. affirmed.
[* Reid, Reid, and Kelley *v.* Kitselman, 1024.

3. SAME.
Decision of the Commissioner of Patents awarding priority to R., R., and K. affirmed.
[Kitselman *v.* Reid, Reid, and Kelley, 1024.

REDUCTION TO PRACTICE.

1. INTERFERENCE—OPERATIVENESS.
Where the counts of a three-party interference originated in an application where automatic operation was not contemplated and related to a subordinate part of the entire machine, which application dropped out of the interference after the decision of the Examiner of Interferences, judgment of priority in favor of one of the remaining parties should not be based on the theory that the other party's machine was not operative as a whole and was therefore not a reduction to practice because it would not perform its functions automatically.
[Reid, Reid, and Kelley *v.* Kitselman, 624.

2. SAME—SAME.
That the device disclosed by one of the parties increases the cost of manufacture and produces a product not readily salable is not sufficient to justify a holding that such device is inoperative.
[Kitselman *v.* Reid, Reid, and Kelley, 623.

REISSUES.

See Particular Patents, 5.

RES ADJUDICATA.

See Interference.

RULE IN EQUITY.

See Appeal to the Circuit Courts of Appeal, 2.

SPECIFICATIONS.

See Construction of Claims, 1; Disclosure of Invention, 1.

STATE OF THE ART.

See Invention, 2, 9; Particular Patents, 2, 4.

SUBSEQUENT AMENDMENT.

See Construction of Claims, 2.

SUBSTITUTION OF MATERIALS.

See Invention, 3, 4, 5, 6.

SUFFICIENCY OF DISCLOSURE.

See Disclosure of Invention, 1; Particular Patents, 1.

SUITS FOR INFRINGEMENT.

See Certiorari, 3.

PATENTS—MOTION FOR FINAL DECISION ON MERITS.
Where plaintiff obtained a decree from a district court of Ohio affirming the validity and restraining infringement of its patent for mechanical toys, also restraining unfair competition in making and selling such toys, and infringement of copyright on its trade catalogue, and, pending appeal by defendant, brought suit against defendant's customer in New York for like infringement, wherein an interlocutory decree was given in plaintiff's favor, based upon affidavits, from which defendant in that suit appealed to the Circuit Court of Appeals of the Second Circuit, pending which the Circuit Court of Appeals of the Sixth Circuit reversed the final decree as to infringement of the patent, but otherwise affirmed the decree, whereupon plaintiff withdrew the patent from the New York suit, upon denial of a motion brought after argument, but before determination of the appeal from the preliminary order for final decision on the merits on the ground that the decree in the sixth circuit was final and conclusive. *Held* that the denial of the motion was proper, as the defendant was entitled to his day in court, with opportunity to set up and establish his defenses.
[**Meccano Limited *v.* John Wanamaker, New York, 203.

TEST.

See Abandoned Experiments.

TESTIMONY.

See Abandoned Experiments.

TRADE-MARKS.

REGISTRATION.
A non-intoxicating cereal beverage containing no malt or alcohol, *Held* to constitute goods of the same descriptive properties as a "near beer" beverage.
[*Christo Manufacturing Company *v.* The Christian Moerlein Brewing Company, 827.

UNFAIR COMPETITION.

See Certiorari, 3; Suits for Infringement.

USE OF INVENTION.

See Disclosure of Invention, 2.

VALIDITY OF PATENT.

Disclosure of Invention, 2; See Suits for Infringement.

VOID CLAIMS.

See Particular Patents, 2, 5.

VOID PATENTS.

See Certiorari, 3; Particular Patents, 1, 3.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Ackley, G. S., & Co. (See Ackley, Griffin S., assignor.)
Ackley, Griffin S., Brooklyn, N. Y., assignor to G. S. Ackley & Co. Brake mechanism. No. 1,341,830; June 1; v. 275; p. 43.
Acme Motor Truck Co. (See Kysor, Walter A., assignor.)
Acme Printing Appliance Co. (See Schussler, John H., assignor.)
Acousti-Scope Corporation. (See Saltzman, Joseph G., assignor.)
Adamson, James E. (See Akin, John H., assignor.)
Ahlgren, John M., Indianapolis, Ind. Storage-battery container. No. 1,341,871; June 1; v. 275; p. 51.
Akin, John H., assignor of one-half to J. E. Adamson, Ames, Iowa. Starting and landing mechanism for aeroplanes. No. 1,342,145; June 1; v. 275; p. 105.
Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)
Albright, George A. (See Brown, Roy E., assignor.)
Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-wrench. No. 1,341,700; June 1; v. 275; p. 17.
Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-driven tool-driver. No. 1,341,701; June 1; v. 275; p. 17.
Allan, James H., assignor, by mesne assignments, to United States Window Glass Company, Morgantown, W. Va. Glass-drawing apparatus. No. 1,342,080; June 1; v. 275; p. 91.
Allen, Presley R. (See Goben, Edward F., assignor.)
Allender, Charles W. G., assignor of one-fourth to L. C. Rasel, Washington, Pa. Button. No. 1,341,771; June 1; v. 275; p. 32.
Alphaero Engines (Foreign Patents.) (See Alston, Charles H. T., assignor.)
Alston, Charles H. T., Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,342,146; June 1; v. 275; p. 105.
American Bank Note Company. (See Smith, Amos H., assignor.)
American Plate Glass Company. (See Willis, John, assignor.)
American Pretzel Company, The. (See Schumaker, Lorraine J., assignor.)
American Radio & Research Corporation. (See Bush, Vannevar, assignor.)
American Steam Conveyor Corporation. (See Griffin, Lorne A., assignor.)
Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Stop-motion. No. 1,342,245; June 1; v. 275; p. 125.
Amesbury Brass and Foundry Company. (See Miller, William, assignor.)
Anderson, Andrew P., Lynbrook, N. Y., assignor of one-half to W. P. Ten Eyck, Westfield, N. J. Packing. No. 1,342,198; June 1; v. 275; p. 115.
Anderson, Hiram C., New York, N. Y. Resilient wheel. No. 1,342,271; June 1; v. 275; p. 129.
Anderson, James L. (See Cave, H., and Anderson.)
Anderson, James O., Eugene, Oreg. Draft-regulator. No. 1,341,872; June 1; v. 275; p. 51.
Anderson, John A., Geneseo, Ill. Attachment for bearings. No. 1,342,319; June 1; v. 275; p. 138.
Andress, Bert E., Port Allegany, Pa. Railway-signal. No. 1,341,772; June 1; v. 275; p. 32.
Andrew, Frederick W., assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y. Impulse-starter. No. 1,342,199; June 1; v. 275; p. 115.
Angel, Albert, Cleveland, Ohio. Refractional demonstrating device. No. 1,341,773; June 1; v. 275; p. 32.
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. No. 1,342,081; June 1; v. 275; p. 92.
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. No. 1,342,082; June 1; v. 275; p. 92.
Arceneau, Joseph. (See Rosenquist, Anton, assignor.)
Arghis, E. J., *et al.* (See Evans, William F., assignor.)
Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
Arnold, Jacob F., Bellevue, Ohio. Bookcase. No. 1,342,083; June 1; v. 275; p. 92.
Argo, Mattie L., Minneapolis, Minn. Steaming-form for milliners. No. 1,342,147; June 1; v. 275; p. 105.
Armstrong, John, London, assignor of one-half to Patent Corporation Limited, Liverpool, England. Alkali-package. No. 1,342,148; June 1; v. 275; p. 105.
Arnot, Owen G., Bakersfield, Calif. Roller-bearing. No. 1,341,873; June 1; v. 275; p. 51.
Atlanta Lithographic and Printing Company. (See Stranders, Julien, assignor.)
Audible Telephone Company, The. (See Birrell, William and J., assignors.)
Austin, Raymond B. (See Sheler, J. C., and Austin.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Wicks, John, assignor.)
Automatic Electric Company. (See Willis, Bernard D., assignor.)
Avery, Benjamin B., assignor, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Drinking-cup. No. 1,341,831; June 1; v. 275; p. 43.
Avery, Benjamin B., New York, N. Y., and A. Nelson, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Manufacturing sanitary drinking-cups. No. 1,341,832; June 1; v. 275; p. 43.
Avery, Benjamin B., and A. Nelson, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Sanitary drinking-cup and manufacturing such cups. No. 1,341,835; June 1; v. 275; p. 44.
Avis, William H., Hamden, Conn. Pull-strap for laced shoes. No. 1,342,149; June 1; v. 275; p. 105.
Babcock & Wilcox Company, The. See Jacobus, David S., assignor.)
Backer, Christian B., Montreal, Quebec, Canada. Metal alloy. No. 1,341,774; June 1; v. 275; p. 32.
Bakke, Julius O., assignor to Washburn-Crosby Company, Minneapolis, Minn. Thread-cutter for bag-sewing machines. No. 1,342,150; June 1; v. 275; p. 105.
Balcom, Walter F., Dayton, Ohio. Preserving-jar. No. 1,342,039; June 1; v. 275; p. 84.
Bandini, Julius C., Corona, N. Y. Sifting-shovel. No. 1,341,874; June 1; v. 275; p. 51.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Inking mechanism for printing-presses. No. 1,341,627; June 1; v. 275; p. 3.
Barber, Joel D., Tuckahoe, N. Y. Clothes-rack. No. 1,342,200; June 1; v. 725; p. 116.
Barlow, J. E., *et al.* (See Christensen, Niels C., assignor.)
Barrows, Allan S., Chicago, Ill. Making edge-corrugated sheet-metal articles. No. 1,341,967; June 1; v. 275; p. 70.
Barrows, Allan S., Chicago, Ill. Sheet-metal door. No. 1,342,400; June 1; v. 275; p. 153.
Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Composition of matter and producing same. No. 1,342,084; June 1; v. 275; p. 92.
Bassick Manufacturing Company, The. See Fesler, Douglas F., assignor.)
Bast, Joseph H., Chicago, Ill. Automobile-lock. No. 1,342,151; June 1; v. 275; p. 106.
Batho, William F., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,085; June 1; v. 275; p. 93.
Bauer, Hugo R., and H. F. Reinhold, Clifton, N. J. Take-up stop-motion. No. 1,342,272; June 1; v. 275; p. 130.
Bauer, Martha V., Washington, D. C. Sanitary pad. No. 1,341,875; June 1; v. 275; p. 51.
Baxter, William M., assignor, by mesne assignments, to National Refrigerator Car Company, Chicago, Ill. Refrigerating and heating system. No. 1,342,403; June 1; v. 275; p. 154.
Beckwith, Walter C., Fostoria, Ohio. Expansion-bolt. No. 1,342,201; June 1; v. 275; p. 116.
Beehler, William H., Baltimore, Md. Detachable handle construction for parasols, umbrellas, and the like. No. 1,342,320; June 1; v. 275; p. 138.
Beler, Robert J., Sheridanville, Pa. Immerser for fruit-jars. No. 1,342,321; June 1; v. 275; p. 138.

Benham, William T., Norwood, assignor to The Mosler Lock Company, Cincinnati, Ohio. Key-changing combination-lock. No. 1,341,876; June 1; v. 275; p. 52.

Benjamin, Harry S. (See Perry, Frank R., assignor.)

Bennett, Ashley C., Minneapolis, Minn. Air-cleaning ventilator. No. 1,342,152; June 1; v. 275; p. 106.

Beremand, Preston G., Bay City, Mich. Sectional wheel-rim. No. 1,341,877; June 1; v. 275; p. 52.

Berger, Otto R., assignor to R. J. Bischoff, Chicago, Ill. Cooking utensil. No. 1,341,731; June 1; v. 275; p. 23.

Big Indian Copper Company, *et al.* (See Christensen, Niels C., assignor.)

Birrell, James. (See Birrell, William and J.)

Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,341,837; June 1; v. 275; p. 44.

Bischoff, Raymond J. (See Berger, Otto R., assignor.)

Bishop, Alfred J., Burswood, Western Australia, Australia. Combined hand-truck and scale. No. 1,342,246; June 1; v. 275; p. 125.

Bissell, Harry C., and J. G. Chase, Tacoma, Wash. Ladder. No. 1,342,153; June 1; v. 275; p. 106.

Bittinger, Charles, Duxbury, Mass. Combining reflected and transmitted light-waves of varying lengths to produce subjective changes in scenic effects. No. 1,342,247; June 1; v. 275; p. 125.

Blache, Hans H., Hellerup, near Copenhagen, Denmark. Lubricating system for internal-combustion engines. No. 1,342,273; June 1; v. 275; p. 130.

Black, Lee J., Beaumont, Tex. Rotary drilling-machine. No. 1,341,702; June 1; v. 275; p. 18.

Blackburn, Thomas J. (See Horvath, L., and Blackburn.)

Bloomquist, Ernest V., Minneapolis, Minn. Photo-sticker. No. 1,342,248; June 1; v. 275; p. 125.

Bolden, George W., Philadelphia, Pa. Trolley-guide box and shield. No. 1,341,878; June 1; v. 275; p. 52.

Boulanger, Frank D., West Hoboken, N. J. Flash-light. No. 1,342,322; June 1; v. 275; p. 138.

Bourne, James D., Stuttgart, Ark. Baseball-game apparatus. No. 1,341,628; June 1; v. 275; p. 3.

Bovey, Thomas, Chicago, Ill. Vehicle-heater. No. 1,341,879; June 1; v. 275; p. 52.

Bowden, Charles L., Chicago, Ill. Two-cycle engine. No. 1,341,838; June 1; v. 275; p. 44.

Bower, Frank A., Brooklyn, assignor to C. D. Schmidt, Jamaica, N. Y. Antiskid-chain. No. 1,342,086; June 1; v. 275; p. 93.

Bowers, Arthur F., Milwaukee, Wis. Door-operating mechanism. No. 1,341,775; June 1; v. 275; p. 32.

Bowlen, William C., Holyoke, Mass. Plane. No. 1,342,154; June 1; v. 275; p. 106.

Boyce, Malcolm B., Haverhill, Mass. Autographic attachment for cameras. No. 1,342,155; June 1; v. 275; p. 106.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,776; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,777; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,778; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,779; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,780; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,781; June 1; v. 275; p. 34.

Boyden, John C. (See Boyden, George A., Jr., and J. C.)

Braile, Frank E., Shamrock, Okla. Adjustable follower-block for oil drilling and pumping rigs. No. 1,341,968; June 1; v. 275; p. 70.

Bramwell-Ragen Corporation. (See Gunderson, Julius, assignor.)

Brotholl, C. F. (See Huneycutt, Charles F., assignor.)

Breul, Richard A., Bridgeport, Conn. Doorknob. No. 1,341,969; June 1; v. 275; p. 70.

Brewster, Elmer J. (See Murrin, J., and Brewster.)

Brichacek, Anton E., Clarkson, Nebr. Attachment for manure-spreaders. No. 1,342,249; June 1; v. 275; p. 125.

Brick, Samuel E., Salina, Kans. Book or pad. No. 1,341,782; June 1; v. 275; p. 34.

Brinton, H., Company. (See Ames, Elmer U., assignor.)

Brittain, Robert O., Boston, Mass. Dental educational device. No. 1,342,156; June 1; v. 275; p. 107.

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,341,732; June 1; v. 275; p. 24.

Brodrene Sundt, Vaerktöimaskinfabrik A/S. (See Sundt, Andreas, assignor.)

Brown, Harold W., Ithaca, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electrical relay. No. 1,341,629; June 1; v. 275; p. 3.

Brown, Louis H. (See O'Donnell, John, Jr., assignor.)

Brown, Roy E., assignor of one-third to G. A. Albright, Portland, Oreg. Lock. No. 1,342,157; June 1; v. 275; p. 107.

Browning, Alfred G., South Norwood, London, England. Pump or the like. No. 1,342,087; June 1; v. 275; p. 93.

Bruck, Henry, Portland, Oreg. Reinforcement for the shank edges of shoe-taps. No. 1,341,880; June 1; v. 275; p. 52.

Brun-Mill Company. (See Miller, Melville A., assignor.)

Brunt Tile and Porcelain Company, The. (See McKnight, Oscar W., assignor.)

Bryant, Augustus H., Glen Ridge, N. J. Safety-razor. No. 1,342,370; June 1; v. 275; p. 147.

Bryant Electric Company, The. (See Thomas, George B., assignor.)

Bryce, Clarence H., Glen Ridge, N. J., assignor to Benjamin Moore & Co., Brooklyn, N. Y. Sound-absorbing coating. No. 1,341,704; June 1; v. 275; p. 18.

Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top. No. 1,342,012; June 1; v. 275; p. 78.

Buchman, Vernon L., Millers, Md. Resilient tire. No. 1,342,158; June 1; v. 275; p. 107.

Buck, Landon A., Cooper, Tex. Rail joint and brace. No. 1,343,323; June 1; v. 275; p. 139.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Flame-welding machine. No. 1,341,839; June 1; v. 275; p. 45.

Buffalo Forge Company. (See Criqui, Albert A., assignor.)

Bufton, Frank H. (See Ott, H. N., and Bufton.)

Bullowa, Ernest E. M., New York, N. Y. Protector for trousers. No. 1,341,733; June 1; v. 275; p. 24.

Burgess Battery Company. (See Schulte, Walter B., assignor.)

Burns, Archibald E. (See Friendly, Herbert M., and Burns.)

Busch-Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)

Bush, Vannevar, assignor to American Radio & Research Corporation, Medford, Mass. Transformer. No. 1,342,250; June 1; v. 275; p. 125.

Campbell, Alston G., Volga, W. Va. Chicken-coop. No. 1,342,371; June 1; v. 275; p. 148.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging materials from railway-cars. No. 1,342,088; June 1; v. 275; p. 93.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,089; June 1; v. 275; p. 93.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,342,090; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging materials from railway-cars or other similar containers. No. 1,342,091; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging grain and similar materials from cars or other containers. No. 1,342,092; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,095; June 1; v. 275; p. 95.

Carey, Philip, Manufacturing Company, The. (See Moeller, William J., assignor.)

Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,342,096; June 1; v. 275; p. 95.

Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,342,097; June 1; v. 275; p. 95.

Carmody, John C., Fitchburg, Mass. Attachment for automobile-controlling pedals. No. 1,342,372; June 1; v. 275; p. 148.

Carney, George D., *et al.* (See Evans, William F., assignor.)

Carson, Jesse R., Lawrence, Kans. Mousetrap. No. 1,342,098; June 1; v. 275; p. 95.

Case, Egerton R., Toronto, Ontario, Canada. Safety device for heavier-than-air bodies. No. 1,341,783; June 1; v. 275; p. 34.

Cave, Henry, Hartford, Conn., and J. L. Anderson, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y. Autogenous-flame-welding machine. No. 1,341,840; June 1; v. 275; p. 45.

Champaign, Donald K., Ithaca, N. Y. Intake-manifold. No. 1,342,159; June 1; v. 275; p. 108.

Chantraine, Alphonse B., Marcinelle, Belgium. Recuperator. No. 1,341,970; June 1; v. 275; p. 70.

Chapman, Claud E. (See Colquitt, F. R., and Chapman.)

Chase Companies, The. (See Shoner, John, assignor.)

Chase, James G. (See Bissell, H. C., and Chase.)

Chenery, Charles R., Buffalo, N. Y. Milk-bottle. No. 1,342,013; June 1; v. 275; p. 78.

Chesnutt, Seibert W., Kansas City, Mo. Swivel-caster. No. 1,341,630; June 1; v. 275; p. 3.

Chiarelli, Anthony, New York, N. Y. Motion-picture-projecting mechanism. No. 1,342,040; June 1; v. 275; p. 84.

Christensen, Niels C., Salt Lake City, Utah, assignor of one-half to J. E. Barlow, Habana, Cuba, and one-half to Big Indian Copper Company, State of Utah. Obtaining a concentrated SO_2 solution. No. 1,341,784; June 1; v. 275; p. 24.

Christie, Walter, Weehawken, N. J. Tractor. (Reissue.) No. 14,868; June 1; v. 275; p. 156.

Chrobak, Kazimier, assignor of one-half to J. Kryvoshey, Rosemont, W. Va. Adjustable picture frame. No. 1,341,971; June 1; v. 275; p. 70.

Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,341,631; June 1; v. 275; p. 3.

Clark, Cornelius S., assignor of one-fourth to W. H. Venable and E. S. Ely, Norfolk, Va. Rail-chair. No. 1,342,251; June 1; v. 275; p. 126.

Clark, Robert L., Union, W. Va. Robe-holder. No. 1,342,274; June 1; v. 275; p. 130.

Clayton, Enos, Detroit, Mich. Weather-strip. No. 1,341,632; June 1; v. 275; p. 4.

Climes, Delia A., San Diego, Calif. Water-bag. No. 1,342,252; June 1; v. 275; p. 126.

Clish, Joseph, Iron Mountain, Mich. Automobile-radiator. No. 1,341,784; June 1; v. 275; p. 34.

Coate, William Y., Celina, Ohio. Damper. No. 1,341,881; June 1; v. 275; p. 52.

Cocks, George H., Adrian, Mich. Combination drill-press table and vise. No. 1,341,841; June 1; v. 275; p. 45.

Collins, Albert K., Charlotte, N. C., Turnstile. No. 1,342,253; June 1; v. 275; p. 126.

Colquitt, Frank R., Huntington Park, and C. E. Chapman, Los Angeles, Calif. Steamer. No. 1,341,972; June 1; v. 275; p. 71.

Commercial Radio Company of America. (See Giblin, Thomas P., assignor.)

Compagnie Belge Du Pl-Metal, Société Anonyme. (See Martin, Edouard, assignor.)

Connersville Blower Company, The. (See Wilkin, John T., assignor.)

Cook, Leander P., and J. D. Sims, Houston, Tex. Caskets. No. 1,342,324; June 1; v. 275; p. 139.

Cooper Hewitt Electric Company. (See Keyes, Frederick G., assignor.)

Cope, Willard C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Detonating fuse. No. 1,341,705; June 1; v. 275; p. 18.

Coppock, Lambert, Berlin, Oreg. Wagon-frame. No. 1,342,254; June 1; v. 275; p. 126.

Cornell, Alfred, Tonbridge, England. Device for use in sharpening domestic and other knives. No. 1,342,275; June 1; v. 275; p. 130.

Cornell, Harry L., Binghamton, N. Y. Electrical signal system for automobiles. No. 1,341,735; June 1; v. 275; p. 24.

Cosby, Luther F., Dallas, Tex. Auto steering-jack. No. 1,342,276; June 1; v. 275; p. 130.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Cottrell, C. B., and Sons Company. (See Knowles, Bernard D., assignor.)

Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,341,633; June 1; v. 275; p. 4.

Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,341,634; June 1; v. 275; p. 4.

Coughlin, Joseph D., assignor to Weln Sales Corporation, New York, N. Y. Belting. No. 1,341,973; June 1; v. 275; p. 71.

Cowmatic Corporation. (See Lewis, John M. B., assignor.)

Cox, Harry M., Newark, assignor to J. M. Cox, Passaic, N. J. Banjo-support. No. 1,342,202; June 1; v. 275; p. 116.

Cox, John M. (See Cox, Harry M., assignor.)

Cram, Leroy V., Detroit, Mich. Rod-support. No. 1,342,099; June 1; v. 275; p. 95.

Creason, Frank, Richmond, Mo., assignor of one-half to W. A. Mullin. Cement-block mold. No. 1,342,373; June 1; v. 275; p. 148.

Criqui, Albert A., assignor to Buffalo Forge Company, Buffalo, N. Y. Centrifugal fan. No. 1,341,882; June 1; v. 275; p. 53.

Cruickshank, Alexander, Matsqui, British Columbia, Canada. Cattle guard. No. 1,342,014; June 1; v. 275; p. 79.

Cruttenden, Henry L., Northfield, Minn. Dental-cement-injecting tube. No. 1,341,736; June 1; v. 275; p. 24.

Cunniff, Edward A., New Bedford, J. V. Cunniff, Fall River, and J. K. Lanning, Boston, Mass.; said E. A. Cunniff and said J. V. Cunniff assignors to said J. K. Lanning. Weft-replenishing loom. No. 1,341,883; June 1; v. 275; p. 53.

Cunniff, John V. (See Cunniff, E. A. and J. V., and Lanning.)

Cunningham, John A., Bethlehem, Pa. Match-lighter. No. 1,341,785; June 1; v. 275; p. 34.

Cuno, Charles F., assignor to Cuno Engineering Corporation, Meriden, Conn. Automatic switch for cigar lighters, etc. No. 1,342,015; June 1; v. 275; p. 79.

Cuno Engineering Corporation. (See Cuno, Charles F., assignor.)

Curran, Edward T. (See Mayer, T. M., and Curran, assignors.)

Cutler, Clifford A., Buffalo, N. Y. Drying-kiln. No. 1,341,884; June 1; v. 275; p. 53.

Cutler-Hammer Mfg. Co., The. (See Richardson, Linwood T., assignor.)

Dailey, David D., Atmore, Ala. Device for destroying boll-weevil moths. No. 1,341,706; June 1; v. 275; p. 18.

Dalén, Gustaf, Lidingön, Stockholm, Sweden. Apparatus for automatically opening and closing gas-conduits. No. 1,342,160; June 1; v. 275; p. 108.

Dalmant, Sam N., Wetonka, S. D. Water-mill. No. 1,342,100; June 1; v. 275; p. 96.

Dalziel, Charles J. A., London, England. Recovering copper from its ores. No. 1,341,786; June 1; v. 275; p. 34.

Dapprich, Carl E. L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Centrifugally-actuated clutch. No. 1,341,635; June 1; v. 275; p. 4.

Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,342,101; June 1; v. 275; p. 96.

Davis-Bournonville Company. (See Bucknam, Worthy C., assignor.)

Davis-Bournonville Company. (See Cave, H., and Anderson, assignors.)

Davis, John W., Honolulu, Hawaii. Case for holding cigarette-papers. No. 1,341,974; June 1; v. 275; p. 71.

Dawson, Josiah, Philadelphia, Pa., assignor to The Globe Automatic Sprinkler Company. Fusible strut. No. 1,342,203; June 1; v. 275; p. 116.

Dayton Engineering Laboratories Company, The. (See Millward, John R., assignor.)

Dayton-Wright Company. (See Jacobs, James M. H., assignor.)

Dearborn Truck Company. (See Williams, Harrison R., assignor.)

De Fernelmont, Leonard H., Philadelphia, Pa. Mold for making building-tile. No. 1,342,208; June 1; v. 275; p. 117.

D'Errico, Alfonso, Boston, Mass. Resilient wheel. No. 1,341,842; June 1; v. 275; p. 45.

De Lapotterie, Otto H., assignor to Townsend Company, New Brighton, Pa. Metal-working machine. No. 1,341,808; June 1; v. 275; p. 39.

De Moulin, Ulysses S., Greenville, Ill. Legging. No. 1,341,885; June 1; v. 275; p. 53.

De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,341,707; June 1; v. 275; p. 18.

Denson, Jessie D., Grand Rapids, Mich. Aeroplane. No. 1,341,886; June 1; v. 275; p. 54.

Deschaner, Rudolph H., Chicago, Ill. Machine for making twist-drills. No. 1,341,636; June 1; v. 275; p. 4.

D'Harlingue, Alfred E., St. Louis, Mo. Blown-glass vacuum-brick. No. 1,342,404; June 1; v. 275; p. 154.

Dick, Ralph H. and C. F. Wolters, assignors to The Safe-Cabinet Company, Marietta, Ohio. Heat-resisting cabinet. No. 1,342,204; June 1; v. 275; p. 116.

Dickle, James. (See Jardine, J. C., and Dickey.)

Dickie, James, Summerside, Prince Edward Island, Canada. Sled-pad. No. 1,341,708; June 1; v. 275; p. 18.

Discher, Grant F., Milwaukee, Wis. Bumper-bracket. No. 1,342,374; June 1; v. 275; p. 148.

Dochtermann, George T., Passaic, N. J. Spark-plug. No. 1,342,205; June 1; v. 275; p. 117.

Dodds, Ethan I. (See Flannery, J. R., and Dodds.)

Dodge, Charles R. and J. T., Morse Bluff, Nebr. Crank-shaft connection for engines. No. 1,341,709; June 1; v. 275; p. 19.

Dodge, James T. (See Dodge, C. B. and J. T.)

Dohm, Robert O., Dane, Wis. Automatic-supply hog-feeder. No. 1,341,887; June 1; v. 275; p. 54.

Donadio, Prospero, Brooklyn, N. Y. Revolver-stock. No. 1,341,843; June 1; v. 275; p. 46.

Dougan, Kennedy, Minneapolis, Minn. Projectile. No. 1,341,844; June 1; v. 275; p. 46.

Douglas, John, Company, The. (See McNeil, John, assignor.)

Donst, James C., Toronto, Ontario, Canada. Mousetrap. No. 1,342,255; June 1; v. 275; p. 126.

Doyen, Nicholas A., New York, N. Y. Lid-supporter. No. 1,342,325; June 1; v. 275; p. 139.

Dowd, Peter, Globe, Ariz. Mosquito-mask. No. 1,342,277; June 1; v. 275; p. 130.

Doxford, Robert P. (See Keller, Karl O., assignor.)

Doyle, Vernen, Seattle, Wash. Packing-tool. No. 1,341,888; June 1; v. 275; p. 54.

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper Corporation. (See Skedgell, David E., assignor.)

Drayer, Ulysses S., Altoona, Pa. Wrecking, pulling, wire-lying, lifting and truck carrying iron for railway-cars. No. 1,341,787; June 1; v. 275; p. 35.

Drey, Wilfred J., Carlisle, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for covering the heels of shoes. No. 1,341,737; June 1; v. 275; p. 25.

Drinker, Richard C., Quincy, Mass. Furnace-floor bar. No. 1,342,041; June 1; v. 275; p. 84.

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Duke, Harry A. (See Todhunter, R. T., Duke, and Woods.)

Dunham, Delbert F., Los Angeles, Calif. Valve-grinder. No. 1,342,375; June 1; v. 275; p. 148.

Dunkley, Melville E., Kalamazoo, Mich. Fruit-peeling machine. No. 1,341,738; June 1; v. 275; p. 25.

Duplex Truck Company. (See Thomas, George J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Cope, Willard C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Flaherty, Edmund M., assignor.)

Du Pont, E. I., de Nemours, and Company. (See Stowe, Floyd D., assignor.)

Durant, Samuel E., New York, N. Y. Ironing-support. No. 1,342,278; June 1; v. 275; p. 131.
Duttweiler, Albert M., Cambridge City, Ind. Heating device. No. 1,341,788; June 1; v. 275; p. 35.
Duvall, William J., Washington, D. C. Antiskid attachment. No. 1,341,789; June 1; v. 275; p. 35.
Earp, Samuel, Wallasey, England. Artificial tooth. No. 1,342,376; June 1; v. 275; p. 148.
Eastman Kodak Company. (See Riddell, W. A., and Pirwitz, assignors.)
Eaton, William S., Sag Harbor, N. Y. Etching-machine. No. 1,341,739; June 1; v. 275; p. 25.
Eckhard, William. (See White, J., and Eckhard.)
Eclipse Stove Company, The. (See Taylor, Thomas E., assignor.)
Edelman, Philip E., Minneapolis, Minn. Electrochemical analytical control. No. 1,341,790; June 1; v. 275; p. 35.
Edison, Thomas A., Llewellyn Park, West Orange, assignor to New Jersey Patent Company, West Orange, N. J. Composition of matter for sound-records or the like and making same. No. 1,342,326; June 1; v. 275; p. 139.
Edwards, Albert J., Indianapolis, Ind. Collar-button and necktie-slide. No. 1,342,102; June 1; v. 275; p. 96.
Edwards, Henry E. (See Buch, Max, assignor.)
Ehlers, Robert J., Northport, N. Y. Wheel-bearing for furniture. No. 1,342,279; June 1; v. 275; p. 131.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser installation. No. 1,342,103; June 1; v. 275; p. 96.
Eibner, Louisz, Wellington, Ohio. Rail-joint. No. 1,342,377; June 1; v. 275; p. 148.
Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
Eisenhauer, Edward W., Jr., Los Angeles, L. F. Flormann, Silver Lake, and E. C. A. Woltmann, Los Angeles, Calif. Wood-ash furnace and extract-boiler. No. 1,341,889; June 1; v. 275; p. 54.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-separator. No. 1,341,791; June 1; v. 275; p. 35.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-sieve. No. 1,341,792; June 1; v. 275; p. 36.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Sieve-cleaning device. No. 1,341,793; June 1; v. 275; p. 36.
Electro Chemical Company, The. (See Gerstle, John, assignor.)
Electro Chemical Company, The. (See McDorman, Paul, assignor.)
Elias, Abraham J. (See Stupar, Maximilian F., assignor.)
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making gas-oil. No. 1,341,975; June 1; v. 275; p. 71.
Ellis, Clark P., Conneaut Lake, Pa. Saw-set. No. 1,342,327; June 1; v. 275; p. 139.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Elmer, David H., Centerville, Calif. Fruit-cutter. No. 1,342,207; June 1; v. 275; p. 117.
El Vean, John A., assignor of one-half to C. A. Morrisette, Norfolk, Va. Parachute. No. 1,341,794; June 1; v. 275; p. 36.
Ely, Edwin S., *et al.* (See Clark, Cornelius S., assignor.)
Emerson Phonograph Co. (See Emerson, Victor H., assignor.)
Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Co., Inc. Sound-record tablet and producing same. No. 1,341,740; June 1; v. 275; p. 25.
Enos, Alexander, Anchorage, Alaska. Trap. No. 1,342,328; June 1; v. 275; p. 139.
Enterprise Railway Equipment Company. (See Batho, William F., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,342,256; June 1; v. 275; p. 126.
Erskine-Murray, James, and J. Robinson, Biggin Hill, England. Electromagnetic-wave navigational system. No. 1,342,257; June 1; v. 275; p. 126.
Eustis, Frederic A., Milton, Mass. Preparing fine ores for sintering and product thereof. No. 1,341,890; June 1; v. 275; p. 54.
Evans, William F., Philadelphia, assignor of one-ninth to G. D. Carney, Chester, Pa., one-ninth to N. Fioliolo, New York, and one-ninth to E. J. Arghis, Brooklyn, N. Y. Nut-lock. No. 1,341,741; June 1; v. 275; p. 25.
Farris, Harvey D., Spokane, Wash. Water-closet bowl. No. 1,342,016; June 1; v. 275; p. 79.
Farris, Joseph, Springfield, Ill. Furnace-joint. No. 1,342,258; June 1; v. 275; p. 127.
Faunce, Benjamin F., Johnstown, Pa. Adjustable mill for rolling circular sections. No. 1,341,891; June 1; v. 275; p. 54.
Feldman, Manuel, New York, N. Y. Rug. No. 1,342,259; June 1; v. 275; p. 127.
Ferngren, Enoch T., Beaver, Pa. Removing glass from furnaces. No. 1,342,042; June 1; v. 275; p. 84.
Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. No. 1,341,892; June 1; v. 275; p. 55.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Locating enemy-gun positions. No. 1,341,795; June 1; v. 275; p. 36.
Fink, Esther B., Charleston, W. Va. Buttou-clasp. No. 1,342,161; June 1; v. 275; p. 108.
Fioliolo, Nicolo, *et al.* (See Evans, William F., assignor.)
Fisher, Joseph O., U. S. Navy. Apparatus for muffling sounds. No. 1,341,976; June 1; v. 275; p. 71.
Fisher, Robert E., Chicago, Ill. Adjustable curtain-rod bracket. No. 1,341,742; June 1; v. 275; p. 26.
Fitzgerald Mfg. Co., The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Co., Inc., Torrington, Conn. Electrically-vibrated toothbrush. No. 1,342,280; June 1; v. 275; p. 131.
Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,341,893; June 1; v. 275; p. 55.
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent for use with pyroxylin and compositions containing same. No. 1,341,710; June 1; v. 275; p. 19.
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt. No. 1,342,162; June 1; v. 275; p. 108.
Flint, Frederick P., Ponders End, England. Two-stroke internal-combustion engine. No. 1,342,105; June 1; v. 275; p. 97.
Flint, John, Newport News, Va. Stove. No. 1,342,163; June 1; v. 275; p. 108.
Flormann, Louis F. (See Eisenhauer, E. W., Flormann, and Waltmann.)
Foreman, Lloyd M., Belva, W. Va. Temporary track for mine-cars. No. 1,342,281; June 1; v. 275; p. 131.
Fosston-Carpenter Company. (See Ek, Nels G., assignor.)
Foster, Marcellus. (See Pope, Turner T., assignor.)
Foster, William H., Bayside, N. Y. Journal-box. No. 1,342,164; June 1; v. 275; p. 109.
Fouch, James R., Los Angeles, Calif. Tractor. No. 1,342,401; June 1; v. 275; p. 153.
Fox, Frank H. (See Wallace, P. B., and Fox.)
Fox, Harold E., Newtown, Sydney, New South Wales, Australia. Spring-roller blind. No. 1,342,017; June 1; v. 275; p. 79.
Freeman, Jones L., assignor of two-fifths to E. H. Hendricks, Philadelphia, Pa. Chimney. No. 1,342,329; June 1; v. 275; p. 140.
Freeman, Ogden A., Rockwood, Colo. Rotary vegetable-slicer. No. 1,341,894; June 1; v. 275; p. 55.
French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
Friendly, Herbert M., and A. E. Burns, Portland, Oreg.; said Burns assignor to said Friendly. Toll-telephone-switching apparatus. No. 1,342,260; June 1; v. 275; p. 127.
Fries, John W., Winston-Salem, N. C. Method and product for dyeing textile fabric. No. 1,341,637; June 1; v. 275; p. 5.
Fripp, Francis E. B., Brockenhurst, England, assignor to C. H. Gordon, Christchurch, New Zealand. Apparatus for cutting tapered elliptical holes. No. 1,342,261; June 1; v. 275; p. 127.
Gagnon, Simeon, assignor of one-half to A. Pilon, Montreal, Quebec, Canada. Dispenser. No. 1,341,711; June 1; v. 275; p. 19.
Gamble, Austin A., assignor to G. B. Gamble, Artesia, Calif. Wire-twisting device. No. 1,341,895; June 1; v. 275; p. 55.
Gamble, Guy B. (See Gamble, Austin A., assignor.)
Gates, John W., Montreal, Quebec, Canada. Furnace construction. No. 1,341,896; June 1; v. 275; p. 55.
Gates, John W., Montreal, Quebec, Canada. Furnace construction. No. 1,341,977; June 1; v. 275; p. 71.
Gates, Quincy A., Wilkes-Barre, Pa. Jar-closure. No. 1,341,897; June 1; v. 275; p. 56.
Gearing, Charles M., Hartford, assignor to The New Departure Manufacturing Company, Bristol, Conn. Gage. No. 1,341,978; June 1; v. 275; p. 71.
Geer, Rayfield, Columbus, Ohio. Lamp. No. 1,342,330; June 1; v. 275; p. 140.
Gell, James, Branford, Conn. Wrench. No. 1,341,712; June 1; v. 275; p. 19.
Gendar, Harry W., Lost Hills, Calif. Oil-well meter and sampler. No. 1,341,898; June 1; v. 275; p. 56.
Georgeson, William J., Oneonta, N. Y. Motor-driven gearing. No. 1,342,262; June 1; v. 275; p. 127.
Germproof Cup Corporation. (See Avery, B. B., and Nelson, assignors.)
Germproof Cup Corporation. (See Avery, Benjamin B., assignor.)
Gernsbacher, Aaron H., New Orleans, La. Safe. No. 1,341,899; June 1; v. 275; p. 56.
Gerstle, John, assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,342,378; June 1; v. 275; p. 149.
Giblin, Thomas P., Pawtucket, assignor to Commercial Radio Company of America, Providence, R. I. Electrical coil. No. 1,342,209; June 1; v. 275; p. 117.
Gibson, David L., Parnell, Auckland, New Zealand. Skip for hauling coal and other cargo. No. 1,342,018; June 1; v. 275; p. 79.

Gifford-Wood Company. (See Wood, Harold B., assignor.)
Glanding, Tristram, Philadelphia, Pa., assignor to William R. Noe & Sons, New York, N. Y. Support for shade-holders. No. 1,341,845; June 1; v. 275; p. 46.
Glaze, Herbert L. (See Routt, O. L., McConnell, and Glaze.)
Gleason, Frederick J., Walpole, Mass. Brake-lining. No. 1,342,043; June 1; v. 275; p. 84.
Gleason, Marshall W., Brooklyn, assignor to Gleason Tiebout Glass Co., New York, N. Y. Laminated glass. No. 1,342,282; June 1; v. 275; p. 131.
Gleason Tiebout Glass Co. (See Gleason, Marshall W., assignor.)
Glidden, Walter J., Southboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,342,165; June 1; v. 275; p. 109.
Globe Automatic Springler Company, The. (See Dawson, Josiah, assignor.)
Goben, Edward F., Muskogee, assignor of one-half to P. R. Allen, McAlester, Okla. Rail-bender. No. 1,342,263; June 1; v. 275; p. 128.
Gogay, Henry R., Columbus, Ohio. Metallic receptacle. No. 1,341,638; June 1; v. 275; p. 5.
Goldfarb, Nathan J., Brooklyn, and B. Sacks, New York, N. Y. Cloth-cutter. No. 1,342,210; June 1; v. 275; p. 118.
Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,341,846; June 1; v. 275; p. 46.
Goodwin, Frank C., Portsmouth, Ohio. Tooth having an interchangeable facing. No. 1,342,379; June 1; v. 275; p. 149.
Gordon, Colin H. (See Tripp, Francis E. B., assignor.)
Gore, Jacob L., assignor of one-half to J. M. Warren, Hugo, Okla. Station-indicator. No. 1,342,283; June 1; v. 275; p. 131.
Gorman, Horace J., New York, N. Y. Mechanical movement. No. 1,342,019; June 1; v. 275; p. 79.
Gorman, John F., Portland, Oreg. Clutch. No. 1,341,796; June 1; v. 275; p. 36.
Goftschalk, John J., Taunton, Mass. Coat-hanger. No. 1,342,166; June 1; v. 275; p. 109.
Grabiec, Louis, Muskegon, Mich. Collar-support. No. 1,342,106; June 1; v. 275; p. 97.
Grace, Edward S., New York, N. Y. Automobile-theft-indicating device. No. 1,342,044; June 1; v. 275; p. 85.
Graffunder, Saraha A., assignor to Home Gas Appliance Co., Tacoma, Wash. Oil-burner. No. 1,341,797; June 1; v. 275; p. 27.
Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Apparatus for making bricks. No. 1,341,798; June 1; v. 275; p. 37.
Greenberg, Jacob, *et al.* (See Mallove, Morris, assignor.)
Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Conveyer-conduit. No. 1,342,167; June 1; v. 275; p. 109.
Griffith, John W., San Francisco, Calif. Writing-position penholder. No. 1,341,847; June 1; v. 275; p. 46.
Grönroos, Hugo, Copenhagen, Denmark. Production of artificial stones or slabs of marble-like appearance. No. 1,341,979; June 1; v. 275; p. 72.
Guilbert, Harry, Provo, Utah. Phonograph. No. 1,342,284; June 1; v. 275; p. 132.
Gunderson, Julius, assignor to Bramwell-Ragen Corporation, St. Paul, Minn. Garment-pocket. No. 1,342,168; June 1; v. 275; p. 109.
Guthrie, Robert L., Santa Rosa, Calif. Cultivator. No. 1,342,285; June 1; v. 275; p. 132.
Haas, Victor E., assignor of one-half to S. E. Starr, Toledo, Ohio. Carbureter. No. 1,342,107; June 1; v. 275; p. 97.
Hachmann, Frederick, assignor of one-half to H. C. Stifel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,342,380; June 1; v. 275; p. 149.
Haensler, Henry F., Detroit, Mich. Tool-support. No. 1,341,848; June 1; v. 275; p. 47.
Hainsey, Robert, Altoona, Pa. Fountain-paintbrush. No. 1,342,211; June 1; v. 275; p. 118.
Hainsey, Robert, Altoona, Pa. Painting apparatus. No. 1,342,212; June 1; v. 275; p. 118.
Hall, Harold A., San Jose, Calif. Cylinder for internal-combustion engines. (Reissue.) No. 14,869; June 1; v. 275; p. 156.
Hall Printing Press Company. (See White, J., and Eckhard, assignors.)
Hall Printing Press Company. (See White, Joseph, assignor.)
Hamilton, Thomas S., assignor of one-half to W. E. Merrill, Kansas City, Mo. Lubricating-strip for leaf-springs. (Reissue.) No. 14,870. June 1; v. 275; p. 156.
Haniwi, Ernest A., St. Louis, Mo. Apparatus for making pastry forms. No. 1,342,045; June 1; v. 275; p. 85.
Hanauer, Michael, Tolland, Mass. Machine for stirring maple sugar. No. 1,341,743; June 1; v. 275; p. 26.
Hanlon, Bernard, Lethbridge, Alberta, Canada. Hopple. No. 1,341,900; June 1; v. 275; p. 56.
Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Windmill. No. 1,342,206; June 1; v. 275; p. 117.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Generating formers for contour-grinding machines. No. 1,341,800; June 1; v. 275; p. 37.
Hansom, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-reducing machine. No. 1,341,799; June 1; v. 275; p. 37.
Hanson, Harold C., Butte, Mont., and M. B. Sawyer, Edmonds, Wash. Method of and apparatus for sawing trees. No. 1,342,213; June 1; v. 275; p. 118.
Hardie, R. W. Company. (See Hardie, Robert W., assignor.)
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air moistening and heating system. No. 1,342,214; June 1; v. 275; p. 118.
Harris, Edward B., Hillsboro, Oreg. Wagon-brake. No. 1,342,381; June 1; v. 275; p. 149.
Harris, Harry L. (See Payne, Lawrence C., assignor.)
Harris, William L., Kansas City, Mo. Dead-center device. No. 1,341,849; June 1; v. 275; p. 47.
Haslup, Hugh W., Toledo, Ohio. Fountain-pen. No. 1,341,850. June 1; v. 275; p. 47.
Hatch, Robert D., San Francisco, Calif. Refrigerator-vehicle. No. 1,341,744; June 1; v. 275; p. 26.
Havener, Arthur R., Wayland, Mass., assignor to Judson L. Thomson Mfg. Co. Machine for feeding circular rivet-caps and the like. No. 1,342,331; June 1; v. 275; p. 140.
Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine fuel-pump. No. 1,341,640; June 1; v. 275; p. 5.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,342,215; June 1; v. 275; p. 119.
Hayman, Isaac, Los Angeles, Calif. Hairpin. No. 1,341,980; June 1; v. 275; p. 72.
Hayward, Carle R., Quincy, F. O. Stillman, Cambridge, and H. M. Schleicher, Boston, Mass., assignors, by mesne assignments, to Moa Iron & Development Corporation, Dover, Del. Treatment of iron ores. No. 1,341,901; June 1; v. 275; p. 56.
Headley, James P., Jr., New Orleans, La. Locking attachment. No. 1,342,020; June 1; v. 275; p. 80.
Hecht, Else, administratrix. (See Heimann, Georg.)
Heimann, Georg, deceased, Charlottenburg, Germany; E. Hecht, administratrix. Graded-service electromechanical telephone-exchange system. No. 1,341,801; June 1; v. 275; p. 38.
Hendricks, Essex H. (See Freeman, Jones L., assignor.)
Henig Engine Co. (See Henig, Frank L., assignor.)
Henig, Frank L., Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co. Inlet or check valve. No. 1,342,216; June 1; v. 275; p. 119.
Heino, Louis, Oakland, Calif. Washtray. No. 1,342,046; June 1; v. 275; p. 85.
Hensel, Henry F., New London, and W. J. Stake, Sugar Bush, Wis. Manure-conveyer. No. 1,342,217; June 1; v. 275; p. 119.
Hepworth, S. S., Company, *et al.* (See Mackintosh, Edward D., assignor.)
Herchert, Edwin J., Postville, Iowa. Tire-cover. No. 1,342,169; June 1; v. 275; p. 109.
Herreshoff, Alexander G. (See Leipert, A. H., and Herreshoff, assignors.)
Hesse, Leopold, Oberbruch, near Aachen, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Manufacturing tubular products of cellulose or compounds of cellulose. No. 1,341,745; June 1; v. 275; p. 26.
Heyerdahl, Thorvald, Christiania, Norway. Connection between a water-tube and a pressure-basin mounting the water-tube. No. 1,342,286; June 1; v. 275; p. 132.
Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,341,746; June 1; v. 275; p. 27.
Hibner, Philip D., Seattle, Wash. Internal-combustion engine. No. 1,342,108; June 1; v. 275; p. 97.
Hickey, John J., New York, N. Y. Drip-water safe. No. 1,342,287; June 1; v. 275; p. 132.
Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Tractor. No. 1,341,851; June 1; v. 275; p. 47.
Hicks Tractor Company. (See Hicks, Rex P., assignor.)
Hildreth, Ned E., Lincoln, Nebr. Engine-support. No. 1,341,902; June 1; v. 275; p. 57.
Hill, Guy. (See Steinberger, L., and Hill.)
Hill, Hugh G., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Mechanical movement. No. 1,342,170; June 1; v. 275; p. 110.
Hirschfeld, H., sen. (See Meyer, L., and Schiff, assignors.)
Hmirak, John, New York, N. Y. Combination bayonet and wire-cutter. No. 1,342,382; June 1; v. 275; p. 149.
Hoeglund, Herman, Hawley, Minn. Combination table and ironing-board. No. 1,342,109; June 1; v. 275; p. 98.
Hoffman, Otto P., Chicago, Ill. Battery-plate. No. 1,341,713; June 1; v. 275; p. 19.
Hoffman Products Corporation. (See Hoffman, William M., assignor.)
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Apparatus for operating and controlling fuel-oil burners. No. 1,341,642; June 1; v. 275; p. 5.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,643; June 1; v. 275; p. 5.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,644; June 1; v. 275; p. 6.

Hollenback, George M., Los Angeles, Calif. Oven or furnace. No. 1,341,903; June 1; v. 275; p. 57.
Holland, Luther W., Pleasant Hill, Mo. Latch. No. 1,341,802; June 1; v. 275; p. 38.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Trucks. No. 1,342,497; June 1; v. 275; p. 155.
Holmes, Thomas E., Glasgow, Scotland. Connection with plate and like rolling mills. No. 1,342,264; June 1; v. 275; p. 128.
Holy, James R., assignor of one-half to Segelke & Kohlhaus Mfg. Co., La Crosse, Wis. Glazier's point-setter. No. 1,342,110; June 1; v. 275; p. 98.
Home Gas Appliance Co. (See Graffunder, Saraha A., assignor.)
Horvath, Louis, and T. J. Blackburn, Mingo Junction, Ohio. Switch-frog. No. 1,342,332; June 1; v. 275; p. 140.
Horváth, Steven F., Buffalo, N. Y. Bread-knife. No. 1,342,383; June 1; v. 275; p. 150.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,341,981; June 1; v. 275; p. 72.
Howard, Lemuel F., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,341,982; Jan. 1; v. 275; p. 72.
Howard, Stanley R., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton opening and feeding mechanism. No. 1,342,047; June 1; v. 275; p. 85.
Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Thrust-bearing. No. 1,342,384; June 1; v. 275; p. 150.
Howe, Charles W., Healdton, Okla. Lightning-arrester. No. 1,342,111; June 1; v. 275; p. 98.
Howes, James H., New Staunton, Pa. Spring-bed. No. 1,341,714; June 1; v. 275; p. 19.
Hubbard, Burtt J., Kokomo, Ind., assignor of one-half to J. T. Powell, Pittsburgh, Pa. Loading-skid. No. 1,341,904; June 1; v. 275; p. 57.
Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Clutch mechanism. No. 1,341,983; June 1; v. 275; p. 72.
Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for hardening bodies having the shape of solids of revolution. No. 1,342,112; June 1; v. 275; p. 98.
Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for heating balls. No. 1,342,171; June 1; v. 275; p. 110.
Hultman, Charles G., Cranston, and H. Wachenheimer, Providence, R. I., assignors to Wachenheimer Bros. Inc., Providence, R. I. Clasp. No. 1,342,048; June 1; v. 275; p. 85.
Hunevcutt, Charles F., assignor of one-half to C. F. Brethoil, Charlotte, N. C. Sheet-guide for printing-presses. No. 1,342,113; June 1; v. 275; p. 98.
Hurff, Harry L., Peoria, Ill. Gage attachment for woodworking-machines. No. 1,342,218; June 1; v. 275; p. 119.
Huston, Edward M., Philadelphia, Pa. Valve-grinder. No. 1,341,981; June 1; v. 275; p. 73.
Huston, Thomas, Kokomo, Ind. Farm-gate. No. 1,341,905; June 1; v. 275; p. 57.
Hutchinson, David Michal. (See Hachmann, Frederick, assignor.)
Hutton, David B., Waiuku, New Zealand. Construction of force or lift pumps. No. 1,341,906; June 1; v. 275; p. 57.
Ichiba, Rihachi, New York, N. Y. Drill and wire gage. No. 1,342,288; June 1; v. 275; p. 132.
Iddon, Frederick, Leyland, England. Rubber mixing, grinding, sheeting, and similar mills. No. 1,342,114; June 1; v. 275; p. 99.
Ilieff, Ilion, Detroit, Mich. Resilient spoke. No. 1,341,907; June 1; v. 275; p. 58.
Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
Ingels, James, Springfield, Ill. Insulator for spark-plugs. No. 1,341,747; June 1; v. 275; p. 27.
Ingram, Finch P., Fairlight, England. Life-saving appliance. No. 1,341,908; June 1; v. 275; p. 58.
International Motor Company. (See Leipert, A. H., and Herreshoff.)
Jacobs, James M. H., assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio. Steering device. No. 1,342,385; June 1; v. 275; p. 150.
Jacobs, Joseph H., Denver, Colo. Automatic cooker. No. 1,341,748; June 1; v. 275; p. 27.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace-wall. No. 1,341,645; June 1; v. 275; p. 6.
Jacoby, Henry C. E. (See Mossay, P. A. H., and Jacoby.)
Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Coin-dispensing device. No. 1,341,749; June 1; v. 275; p. 27.
Janney, Thomas A., Garfield, Utah. Flotation-machine. No. 1,342,115; June 1; v. 275; p. 99.
Janni, Alfredo C., New York, N. Y. Reinforced-concrete vessel and building same. No. 1,342,408; June 1; v. 275; p. 155.
Jansen, Victor, Los Angeles, Calif. Painter's striping mechanism. No. 1,341,803; June 1; v. 275; p. 38.
Jardine, James C., and J. Dickie, Summerside, Prince Edward Island, Canada. Bridle. No. 1,341,715; June 1; v. 275; p. 20.
Jarmie, Michael, East Haven, Conn. Spring-lubricator. No. 1,342,172; June 1; v. 275; p. 110.
Jefferis, Richard W., Philadelphia, Pa. Rack for shelving. No. 1,341,852; June 1; v. 275; p. 47.
Jennings, John E., Brooklyn, N. Y., assignor to Milliken Brothers Mfg. Co. Inc. Building construction. No. 1,342,021; June 1; v. 275; p. 80.
Jennings, McKinley, Detroit, Mich. Corn-planter and fertilizer-distributer. No. 1,342,333; June 1; v. 275; p. 140.
Jesnig, Charles, Philadelphia, Pa. Universal work-holder. No. 1,341,646; June 1; v. 275; p. 6.
Jiminez, Anthony, New York, N. Y. Resilient wheel. No. 1,342,289; June 1; v. 275; p. 132.
Johnson, Alfred, Chicago, Ill. Skate-protector. No. 1,341,853; June 1; v. 275; p. 47.
Johnson, Frank P., assignor to H. Voeleker, Danville, Pa. Garment-hanger. No. 1,342,265; June 1; v. 275; p. 128.
Johnson, John H., Lemoore, Calif. Fork-scraper. No. 1,341,750; June 1; v. 275; p. 27.
Johnson, Samuel, Tooele, Utah. Weed-cutter. No. 1,341,804; June 1; v. 275; p. 38.
Johnston, Walter L. and F. L., Sidney, Nebr. Beet-topping machine. No. 1,341,909; June 1; v. 275; p. 58.
Jones, Ernest H., Islington, London, England. Electrode for soldering and depositing metals by the electric arc. No. 1,341,647; June 1; v. 275; p. 6.
Joseph, Horace, *et al.* (See Palmer, Victor C., assignor.)
Joslin, Charles T., assignor to The Russ Company, Cleveland, Ohio. Measuring-faucet. No. 1,342,173; June 1; v. 275; p. 110.
Kadow, Richard C., Newark, N. J., assignor to S. M. Riker, Chester, N. J. Belt-buckle. No. 1,341,648; June 1; v. 275; p. 7.
Kalicki, Walenty, Grafton, Ohio. Plow construction. No. 1,342,386; June 1; v. 275; p. 150.
Kammitter, Frank, New York, N. Y. Automobile-bumper. No. 1,342,290; June 1; v. 275; p. 133.
Kaufman, Alfred, New York, N. Y. Hydrocarbon-burner. No. 1,341,910; June 1; v. 275; p. 58.
Kay, William E., Elyria, Ohio. Protected pneumatic heel. No. 1,342,291; June 1; v. 275; p. 133.
Kelly, Mary C. (See Swope, Leon W., assignor.)
Kelsey, Harry S. (See Jaeger, Otto, assignor.)
Kendall, William G., Newark, N. J. Vanity-case. No. 1,342,116; June 1; v. 275; p. 99.
Keller, Karl O., assignor of one-half to R. P. Doxford, Sunderland, Durham, England. Fuel-injection valve for oil-engines. No. 1,341,911; June 1; v. 275; p. 58.
Kellogg, Hosford D., Haverford, Pa. Radiator. No. 1,341,649; June 1; v. 275; p. 7.
Kemp, Walter D., New York, N. Y. Doll. No. 1,341,985; June 1; v. 275; p. 73.
Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Wire-drawing machinery. No. 1,341,986; June 1; v. 275; p. 73.
Kleves, Phillip, *et al.* (See Mallove, Morris, assignor.)
Kincer, Joseph B., Washington, D. C. Vehicle-spring. No. 1,341,805; June 1; v. 275; p. 38.
Kingsbury, Albert. (See Howarth, Harry A. S., assignor.)
Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,341,650; June 1; v. 275; p. 7.
Klein, Otto, Paterson, N. J. Target. No. 1,342,022; June 1; v. 275; p. 80.
Kline, Harry L., Portland, Oreg. Rotary internal-combustion engine. No. 1,341,854; June 1; v. 275; p. 47.
Kline, Walter, Mogadore, Ohio. Laminated fabric. No. 1,341,987; June 1; v. 275; p. 73.
Klipper, Joseph, West New York, N. J. Signal device for automobiles. No. 1,342,049; June 1; v. 275; p. 85.
Knopf, Sidney M., New York, N. Y. Attachment for telephone. No. 1,341,855; June 1; v. 275; p. 48.
Knowles, Bernard D., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Antismutting device for traveling sheets. No. 1,342,117; June 1; v. 275; p. 99.
Knutsen, John Bowden, Alberta, Canada, assignor of one-half to C. Loutfit, Prince George, British Columbia, Canada. Track-adjusting machine. No. 1,341,912; June 1; v. 275; p. 59.
Koechlin, Emile R., assignor to Naamlooze Vennootschap Weduwe J. Ahrend & Zoons Industrie en Handelsvereeniging, Amsterdam, Netherlands. Drawing-table. No. 1,341,988; June 1; v. 275; p. 73.
König, Adolf, Hoboken, N. J. Machine for forming sawblades. No. 1,341,806; June 1; v. 275; p. 38.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack-bar. No. 1,341,856; June 1; v. 275; p. 48.
Kornaszewski, Waclaw, Detroit, Mich. Combined table and seat. No. 1,342,387; June 1; v. 275; p. 150.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switch mechanism. No. 1,342,219; June 1; v. 275; p. 120.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)

Krapf, Charles H., Brooklyn, N. Y. Adjustable and releasing guard for slicing-knives. No. 1,342,292; June 1; v. 275; p. 133.
Krause, William S., North La Junta, Colo. Demountable rim. No. 1,342,118; June 1; v. 275; p. 99.
Krauss, Max, Philadelphia, Pa. Talking-machine. No. 1,341,751; June 1; v. 275; p. 27.
Kruger, Paul, Charleston, W. Va. Handcuff. No. 1,342,334; June 1; v. 275; p. 141.
Kryvoshey, John. (See Chrobak, Kazimier, assignor.)
Kuderer, Charles, Pittsburgh, Pa. Motorcycle back-rest. No. 1,342,388; June 1; v. 275; p. 151.
Kuneus, Joseph, Chicago, Ill. Draft-detaching device. No. 1,342,119; June 1; v. 275; p. 99.
Kuns, John H., Long Beach, Calif. Brake for phonographs. No. 1,342,023; June 1; v. 275; p. 80.
Kuntz, Jake J., Oakville, Iowa. Jack. No. 1,342,389; June 1; v. 275; p. 151.
Kysor, Walter A., assignor to Acme Motor Truck Co., Cadillac, Mich. Motor-truck construction. No. 1,342,266; June 1; v. 275; p. 128.
Labofish, Charles S., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,174; June 1; v. 275; p. 110.
Ladd, John W. B., and R. E. Rich, Chicago, Ill. Crankshaft transmission-pulley. No. 1,341,914; June 1; v. 275; p. 59.
Ladd, John W. B., and R. E. Rich, Chicago, Ill. Combined water and air pump for automobiles. No. 1,341,915; June 1; v. 275; p. 59.
La Jeunesse, Jean B. A., Alameda, Calif. Weather-strip. No. 1,342,050; June 1; v. 275; p. 86.
Lake, Frank, Miami, Ariz. Hay rake and racker. No. 1,342,293; June 1; v. 275; p. 133.
Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,341,651; June 1; v. 275; p. 7.
Langguth, Wilhelm, Esslingen, Germany, assignor, by mesne assignments, United States Envelope Company, Springfield, Mass. Making window-envelops. No. 1,341,807; June 1; v. 275; p. 39.
Lanning, James K. (See Cunniff, E. A. and J. V., and Lanning.)
Lapenda, George, Chicago, Ill. Valve or cock. No. 1,342,051; June 1; v. 275; p. 86.
Larison, Eldon L., Anaconda, Mont. Making sulfuric acid. No. 1,342,024; June 1; v. 275; p. 81.
Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,342,120; June 1; v. 275; p. 100.
Lavryk, Feodosy, Chicago, Ill. Life-saving device. No. 1,341,752; June 1; v. 275; p. 28.
Lawrence, Frederick K., Chicago, Ill. Grease-cup filler. No. 1,341,652; June 1; v. 275; p. 7.
Lawrence, James C., West Asheville, N. C. Brace for milling-machines. No. 1,342,390; June 1; v. 275; p. 151.
Leach, Basil W., Golconda, Nev. Rotary toothbrush. No. 1,341,916; June 1; v. 275; p. 59.
Lebau, Louis, Pittsburgh, Pa. Gas-heater. No. 1,342,121; June 1; v. 275; p. 100.
Lee, Charles M., Falls City, Nebr. Fan, propeller, &c. No. 1,341,653; June 1; v. 275; p. 8.
Lee, Robert C., assignor to A. Scrivenor, Richmond, Va. Work-holding stand. No. 1,341,809; June 1; v. 275; p. 39.
Leggett, Ross M., Akron, Ohio, assignor to Ozone Company of America, Milwaukee, Wis. Removing phenol and other aromatic hydrocarbons from water or other liquids. No. 1,341,913; June 1; v. 275; p. 59.
Leipert, August H., Brooklyn, and A. G. Herreshoff, New York, N. Y., assignors to International Motor Company, New York, N. Y. Gearing. No. 1,342,175; June 1; v. 275; p. 111.
Leopard, Sarah N., Atlanta, Ga. Apparel. No. 1,341,716; June 1; v. 275; p. 20.
Lewis, Harry A., Norristown, and A. D. Wood, Philadelphia, Pa. Roller-table. No. 1,342,220; June 1; v. 275; p. 120.
Lewis, Henry H., Attleboro, Mass. Box for cigarettes and like articles. No. 1,341,857; June 1; v. 275; p. 48.
Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Stanchion-support. No. 1,341,989; June 1; v. 275; p. 74.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,341,753; June 1; v. 275; p. 28.
Liles, William P., assignor to L. Metcalf, Marlow, Tenn. Telegraph-key. No. 1,341,810; June 1; v. 275; p. 39.
Limacher, Walter P., Pasadena, Calif. Bumper for automobiles. No. 1,341,917; June 1; v. 275; p. 59.
Lincoln, Ward W., Rock Falls, Ill. Folding wall-rack. No. 1,341,654; June 1; v. 275; p. 8.
Lippert, Samuel, East Cleveland, Ohio. Thermostatic heat-regulator. No. 1,342,052; June 1; v. 275; p. 86.
Lofstrom, Robert W., Worcester, Mass. Lathe-dog. No. 1,342,122; June 1; v. 275; p. 100.
Lofrus, John, Albany, N. Y. Pump. No. 1,342,176; June 1; v. 275; p. 111.
Locomobile Company of America, The. (See Roos, Delmar G., assignor.)
Locomobile Company of America, The. (See Walter, Henry C., assignor.)
Logan, Archie F. (See Logan, Lindsey H. and A. F.)
Logan, Lindsey H. and A. F., Spokane, Wash. Hitch. No. 1,341,918; June 1; v. 275; p. 60.
Lonkert, Edward T. (See Yennett, J., and Lonkert.)
Lottero, Carmen O., Buenos Aires, Argentina. Proceeding for the production of paste destined for manufacture of paper, cardboard, and the like. No. 1,341,991; June 1; v. 275; p. 74.
Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co., Bag-frame hinge. No. 1,341,754; June 1; v. 275; p. 28.
Loutit, Charles. (See Knutsen, John, assignor.)
Luoma, Matt, Astoria, Oreg. Angle-indicator. No. 1,342,335; June 1; v. 275; p. 141.
Lutz, Alvin A., Mount Jackson, Va. Belt key-holder. No. 1,341,811; June 1; v. 275; p. 39.
Lynch, William J., Buffalo, N. Y. Dish-holding tray or basket. No. 1,341,717; June 1; v. 275; p. 20.
McCartney, Leslie C., Lincoln, Nebr. Hog-waterer. No. 1,341,919; June 1; v. 275; p. 60.
McCartney, Leslie C., Lincoln, Nebr. Hog-watering fountain. No. 1,341,920; June 1; v. 275; p. 60.
McClure, Silas, Beaver Dam, Wis. Corrosion-resisting ferrous alloy. No. 1,341,992; June 1; v. 275; p. 74.
McConnell, Grover C. (See Routt, O. L., McConnell, and Glaze.)
McCord, John D., assignor to San Pablo Oil Mills, Limited, Manila, Philippine Islands. Copra-drying apparatus. No. 1,341,655; June 1; v. 275; p. 8.
McCoy, Charles W., Sprague, Wash. Apparatus and process for cooling vehicles. No. 1,342,123; June 1; v. 275; p. 100.
McDonald, Frank M., Seattle, Wash. Aeronautic landing device. No. 1,342,221; June 1; v. 275; p. 120.
McDonald, Frank M., Seattle, Wash. Fender. No. 1,342,402; June 1; v. 275; p. 153.
McDorman, Paul, Niagara Falls, N. Y., assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,342,336; June 1; v. 275; p. 141.
McGowan, William H., Vincennes, Ind. Tire. No. 1,341,656; June 1; v. 275; p. 8.
McJilton, Lee D. (See Vervoort, Jules F., assignor.)
McKee Glass Company. (See Smith, Maurice A., assignor.)
McMahon, James P., Atlanta, Ga. Fuel-economizer. No. 1,342,337; June 1; v. 275; p. 141.
McNeil, John, assignor to The John Douglas Company, Cincinnati, Ohio. Flushing-nozzle. No. 1,342,124; June 1; v. 275; p. 100.
McKnight, Oscar W., assignor to The Brunt Tile and Porcelain Company, Columbus, Ohio. Bushing-forming machine. No. 1,342,053; June 1; v. 275; p. 86.
Mackey, John R., Hop Bottom, Pa. Agricultural implement. No. 1,342,125; June 1; v. 275; p. 101.
Mackintosh, Edith M., *et al.* (See Mackintosh, Edward D., assignor.)
Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Driving electric centrifugal machines. No. 1,342,405; June 1; v. 275; p. 154.
Macnab, Joseph, and G. H. Smith, Bredbury, near Stockport, England. Interconnected clutch and gear-shift for lathes and other machine-tools. No. 1,342,126; June 1; v. 275; p. 101.
Madère, Ernest H., Hahnville, La. Hand-controlled rotary cutting implement. No. 1,342,294; June 1; v. 275; p. 133.
Mahn, Fred F., Chicago, Ill. assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Controlling device. No. 1,342,338; June 1; v. 275; p. 141.
Mallove, Morris, assignor of twenty-seven and one-half per cent to J. Greenberg, and twenty-seven and one-half per cent to P. Kievos, New York, N. Y. Basin-plug wrench. No. 1,342,075; June 1; v. 275; p. 81.
Manhattan Rubber Mfg. Company, The. (See Repony, Daniel, assignor.)
Mankey, Vernon H., Aberdeen, S. D. Tool for use in removing and replacing tires. No. 1,342,295; June 1; v. 275; p. 134.
Mann, Advance R. (See Potts, T. C., and Mann.)
Mann, James H., Jr., Little Rock, assignor to Transit Vending Machine Company, Pine Bluff, Ark. Vending-machine. No. 1,341,921; June 1; v. 275; p. 60.
Manufacturers Machine Products Co. (See Schoenborn, Gustav C., assignor.)
March, Charles M., Portland, Me., and C. L. Tidd, Gardner, Mass. Camera. No. 1,341,718; June 1; v. 275; p. 20.
Marsico, Gerard R., Brooklyn, N. Y. Clutch. No. 1,341,993; June 1; v. 275; p. 74.
Martin, Edouard, assignor to Compagnie Belge Du Bi-Metal, Société Anonyme, Brussels, Belgium. Manufacture of wires and tubes of two metals. No. 1,341,812; June 1; v. 275; p. 39.
Martin, George G., East St. Louis, Ill. Automobile-tire. No. 1,342,339; June 1; v. 275; p. 141.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,341,922; June 1; v. 275; p. 61.
Martin, William H. Ebshlag, Netherlands. Exhaust-silencer for internal-combustion engines. No. 1,342,340; June 1; v. 275; p. 142.
Mascart, Léon F., assignor to Société du Verre Triplex, Paris, France. Reinforced glass and making same. No. 1,342,267; June 1; v. 275; p. 129.

Mascart, Léon F., assignor to Société du Verre Triplex, Paris, France. Manufacture of reinforced glass. No. 1,342,268; June 1; v. 275; p. 129.

Maserang, John B., Belleville, Ill. Hatpin attachment. No. 1,341,858; June 1; v. 275; p. 48.

Mayer, John G., Milwaukee, Wis. Hay-carriage. No. 1,342,341; June 1; v. 275; p. 142.

Mayer, Thomas M., assignor to E. T. Curran, Brooklyn, N. Y. Gas-heated boiler. No. 1,342,342; June 1; v. 275; p. 142.

Mecky, A., Company. (See Papini, Antonio, assignor.)

Mellen, Grenville, Cranford, N. J. Method of and apparatus for casting hollow bars or tubes. No. 1,342,127; June 1; v. 275; p. 101.

Merker Interchangeable Tooth Corporation. (See Merker, Melvin E., assignor.)

Merker, Melvin E., assignor to Merker Interchangeable Tooth Corporation, New York, N. Y. Artificial tooth. No. 1,341,813; June 1; v. 275; p. 40.

Merrill, George E., Salem, Mass. Window-ventilator attachment. No. 1,342,222; June 1; v. 275; p. 120.

Merrill, William E. (See Hamilton, Thomas S., assignor.)

Metcalf, Levi. (See Liles, William P., assignor.)

Metcalfe, James, J. C. Metcalfe, Marple, and R. D. Metcalfe, Romiley, England. Injector. No. 1,342,128; June 1; v. 275; p. 101.

Metcalfe, James C. (See Metcalfe, James, J. C., and R. D.)

Metcalfe, Richard D. (See Metcalfe, James, J. C., and R. D.)

Metropolitan Sewing Machine Corporation. (See Weis, Albert H., assignor.)

Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)

Metten, John F., and J. C. Shaw, Philadelphia, Pa. Marine steam-turbine arrangement. No. 1,342,177; June 1; v. 275; p. 111.

Meyer, *née* Wolf, Lina, and R. Schiff, assignors to the Firm H. Hirschfeld Sen., Frankfort-on-the Main, Germany. Cooking apparatus. No. 1,341,960; June 1; v. 275; p. 68.

Michalovsky, Kapiton, Akron, Ohio. Inflatable garment. No. 1,342,054; June 1; v. 275; p. 86.

Micheau, Edward L., Baltimore, Md. Drawing-protractor. No. 1,342,129; June 1; v. 275; p. 102.

Midgley, John G., Salt Lake City, Utah. Mechanical stoker. No. 1,341,923; June 1; v. 275; p. 61.

Miller, Frank P. Meadville, Pa. Cutter-head. No. 1,342,055; June 1; v. 275; p. 87.

Miller, Fred, Braddock, Pa. Lifting-jack. No. 1,342,057; June 1; v. 275; p. 87.

Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,341,657; June 1; v. 275; p. 8.

Miller, Melville A., assignor to Brun-Mill Company, Pittsfield, Ill. Combined cigarette and vanity case. No. 1,342,178; June 1; v. 275; p. 111.

Miller, William, assignor to Amesbury Brass and Foundry Company, Amesbury, Mass. Door-handle for automobiles. No. 1,342,058; June 1; v. 275; p. 87.

Miller, William J., Swissvale borough, Pa. Pressing-plunger mechanism for glass-machines. No. 1,342,056; June 1; v. 275; p. 87.

Milliken Brothers Mfg. Co. (See Jennings, John E., assignor.)

Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starter for internal-combustion engines. No. 1,341,660; June 1; v. 275; p. 9.

Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starter for internal-combustion engines. No. 1,341,659; June 1; v. 275; p. 9.

Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Starter for internal-combustion engines. No. 1,341,658; June 1; v. 275; p. 9.

Miner, William H. (See Dath, Charles E., assignor.)

Minton, William E., Kansas City, Mo. Well-screen. No. 1,341,755; June 1; v. 275; p. 28.

Moa Iron & Development Corporation. (See Hayward, C. R., Stillman, and Schleicher, assignors.)

Moe, Jacob, Trondhjem, Norway. Rotating grate for automatic stoking. No. 1,342,026; June 1; v. 275; p. 81.

Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Elastic or expansible paving-joint. (Reissue.) No. 14,871; June 1; v. 275; p. 156.

Montgomery, Julian E., Wheeling, W. Va. Friction-drive for the top rolls of rolling-mills. No. 1,342,343; June 1; v. 275; p. 142.

Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. No. 1,341,859; June 1; v. 275; p. 49.

Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)

Moore, Alfred M., assignor to Moore & Company, Malden, Mass. Hardening and annealing furnace. No. 1,341,661; June 1; v. 275; p. 9.

Moore, Benjamin, & Co. (See Bryce, Clarence H., assignor.)

Moore, Byron L., Buffalo, N. Y. Key-switch. No. 1,341,719; June 1; v. 275; p. 21.

Moore & Company. (See Moore, Alfred M., assignor.)

Moore, David D., Enfield, Va. Toy. No. 1,342,344; June 1; v. 275; p. 143.

Moore, David P., and S. B. Pack, Washington, D. C., assignors to Packmore Manufacturing Company. Portable suction cleaning-machine. No. 1,342,345; June 1; v. 275; p. 143.

Morgan & Wright. (See Neal, De Courcy, assignor.)

Morine, John P., Trentham, New Zealand. Detachable handle for teacups, saucepans, and the like. No. 1,341,756; June 1; v. 275; p. 29.

Morley, Frederic A., Brooklyn, N. Y. Mouth-flute. No. 1,341,860; June 1; v. 275; p. 49.

Morrisette, Charles A. (See El Vean, John A., assignor.)

Mosby, William A., Cotton Plant, Ark. Target. No. 1,341,814; June 1; v. 275; p. 40.

Mosler Lock Company, The. (See Benham, William T., assignor.)

Mossay, Paul A. H., and H. C. E. Jacoby, London, England. Cooling arrangement for dynamo-electric machines. No. 1,342,179; June 1; v. 275; p. 111.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,815; June 1; v. 275; p. 40.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,816; June 1; v. 275; p. 40.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,817; June 1; v. 275; p. 40.

Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)

Mowry, Ray M., Los Angeles, Calif. Length-indicator for baling-machines and the like. No. 1,342,391; June 1; v. 275; p. 151.

Muller, William F., assignor to Perfect Re-Fillable Fuse, Inc., Brooklyn, N. Y. Refillable electric fuse. No. 1,341,662; June 1; v. 275; p. 9.

Mullin, W. A. (See Creason, Frank, assignor.)

Murphy, Harry, Muncie, Ind. Liquid nozzle and sprayer. No. 1,342,027; June 1; v. 275; p. 81.

Murrin, John, and E. J. Brewster, Chicago, Ill. Adjustable journal-bearing. No. 1,342,059; June 1; v. 275; p. 87.

Murtha, Walter B., New York, N. Y. Combined coat and hat hanger. No. 1,342,346; June 1; v. 275; p. 143.

Myatt, William J., Birmingham, England. Turnbuckle and the like. No. 1,342,130; June 1; v. 275; p. 102.

Mycock, William, Manchester, England. Bearing for the cylinders of drying-machines. No. 1,342,131; June 1; v. 275; p. 102.

Naamlooze Vennootschap Weduwe J. Ahrend & Zoons, Industrie en Handelsvereeniging. (See Koechlin, Emile R., assignor.)

Nakamura, Goken, Kobe, Japan. Amusement device. No. 1,342,223; June 1; v. 275; p. 120.

Nash, Archie L., East Spencer, N. C. Windshield-shade. No. 1,342,347; June 1; v. 275; p. 143.

National Cash Register Company, The. (See Martin, Haakon A., assignor.)

National Refrigerator Car Company. (See Baxter, William M., assignor.)

Neal, De Courcy, Detroit, Mich., assignor to Morgan & Wright. Tire-casing. No. 1,341,663; June 1; v. 275; p. 10.

Neff, Floyd M., and W. B. Runner, Prattsburg, N. Y. Bagholder. No. 1,342,348; June 1; v. 275; p. 143.

Nelson, Alexander. (See Avery, B. B., and Nelson, assignor.)

Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Former for manufacturing sanitary drinking-cups. No. 1,341,833; June 1; v. 275; p. 43.

Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Making drinking-cups. No. 1,344,834; June 1; v. 275; p. 44.

Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Machine for manufacturing and vending sanitary drinking-cups. No. 1,341,836; June 1; v. 275; p. 44.

Nelson, Elijah M., Villisca, Iowa. Tire-chain fastener. No. 1,341,924; June 1; v. 275; p. 61.

Nelson, Nels P. (See Newdall, A., Nelson, and Newdall.)

Nelson, Olaf A., San Francisco, Calif. Cabinet. No. 1,341,994; June 1; v. 275; p. 74.

Neumann, R. Hardware Co., The. (See Lotz, William A., assignor.)

New Departure Manufacturing Company, The. (See Gearing, Charles M., assignor.)

New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)

New Jersey Patent Company. (See Edison, Thomas A., assignor.)

New Jersey Patent Company. (See Main, Fred F., assignor.)

Newdall, Axel, Minneapolis, N. P. Nelson, and M. Newdall, Springfield, Minn. Sod-disintegrator and quack-grass eradicator. No. 1,341,861; June 1; v. 275; p. 49.

Newdall, Magnus. (See Newdall, A., Nelson, and Newdall.)

Nimmo, Jesse C. (See Nimmo, W. B., and Swaim, assignors.)

Nimmo, William B., Santa Ana, and C. S. Swaim, Long Beach; said Swaim assignor to J. C. Nimmo, Los Angeles, Calif. Automobile-lock. No. 1,341,925; June 1; v. 275; p. 61.

Nisbet, Theodore B., Irvington, N. Y. Windshield for automobiles. (Reissue.) No. 14,872; June 1; v. 275; p. 156.

Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)

Noe, William R., & Sons. (See Glanding, Tristram, assignor.)

Nonnenmann, Adolf, New York, N. Y. Comb. No. 1,342,224; June 1; v. 275; p. 121.

Nordskog, Lawrence S., Des Moines, Iowa. Safety-razor. No. 1,342,028; June 1; v. 275; p. 81.

O'Brien, Frank J., Milwaukee, Wis. Metal-drawing apparatus. No. 1,341,664; June 1; v. 275; p. 10.

O'Connor, James, New York, N. Y. Pneumatic mechanism. No. 1,342,180; June 1; v. 275; p. 112.

O'Donnell, John, Jr., assignor of one-half to L. H. Brown, Philadelphia, Pa. Signal for autos and other vehicles. No. 1,342,181; June 1; v. 275; p. 112.

Olcen, Olof H., Columbia City, Oreg. Garden-tool. No. 1,342,392; June 1; v. 275; p. 151.

Olive, John T., Worden, Ill. Check-holder. No. 1,341,720; June 1; v. 275; p. 21.

Oliver, Elmer, Daytona, Fla. Split demountable rim. No. 1,341,926; June 1; v. 275; p. 62.

O'Neill, David, Woodside, N. Y. Window-screen. No. 1,342,298; June 1; v. 275; p. 134.

Ong, Nathaniel M., York, Pa. Flexible striking device for piano-actions. No. 1,342,029; June 1; v. 275; p. 81.

Onsrud, Oscar, Chicago, Ill. Grinding-machine. No. 1,341,818; June 1; v. 275; p. 40.

Opitz, Fred M., assignor to Perfex Radiator Company, Racine, Wis. Press or stamping-machine. No. 1,341,721; June 1; v. 275; p. 21.

Orvin, Johan E., Christiania, Norway. Support-strap for reinforcement in steel-concrete girders. No. 1,342,349; June 1; v. 275; p. 144.

Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Projection apparatus. No. 1,341,665; June 1; v. 275; p. 10.

Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,341,666; June 1; v. 275; p. 10.

Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Adjusting means for projection objectives. No. 1,341,667; June 1; v. 275; p. 10.

Ozerowicz, Alexander, Detroit, Mich. Mechanic's tool. No. 1,341,757; June 1; v. 275; p. 29.

Ozone Company of America. (See Leggett, Ross M., assignor.)

Pack, Samuel B. (See Moore, D. P., and Pack.)

Packmore Manufacturing Company. (See Moore, D. P., and Pack, assignors.)

Page, Clarence R. (See Page, Edwin A., and C. R.)

Page, Edwin A., and C. R., Youngstown, Ohio. Automobile-control device. No. 1,342,060; June 1; v. 275; p. 88.

Palmer, Victor C., assignor of one-third to H. Joseph and one-third to J. F. Sullivan, Norwood, Colo. Automatic hay-ejector for sweep-rakes. No. 1,341,819; June 1; v. 275; p. 41.

Paper Products Machine Company. (See Howard, Charles H., assignor.)

Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Switch and contact mechanism for electric-current-regulating plugs and sockets. No. 1,342,061; June 1; v. 275; p. 88.

Parker, Humphrey F., Dunedin, New Zealand. Variable-camber-rib for aeroplane-wings. No. 1,341,758; June 1; v. 275; p. 29.

Patent Corporation. (See Armstrong, John, assignor.)

Payne, Lawrence C., Anacostia, assignor of one-half to H. L. Harris, Washington, D. C. Adjustable gage for planes. No. 1,341,820; June 1; v. 275; p. 41.

Pedersen, Oscar A., New York, N. Y. Electric push-button fixture. No. 1,341,668; June 1; v. 275; p. 11.

Perfect Re-Fillable Fuse. (See Muller, William F., assignor.)

Perfex Radiator Company. (See Opitz, Fred M., assignor.)

Perlman, Louis H., New York, N. Y. Wheel. No. 1,342,225; June 1; v. 275; p. 121.

Permolin Products Company Inc. (See Raner, Philipp, assignor.)

Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Tack-feeding mechanism. No. 1,341,821; June 1; v. 275; p. 41.

Perrot, Emile G., Philadelphia, Pa. Building. No. 1,342,062; June 1; v. 275; p. 88.

Perry, Elmer G., Spring Hope, N. C. Fertilizer-distributer. No. 1,342,296; June 1; v. 275; p. 134.

Perry, Frank R., Chicago, Ill., assignor of one-half to H. S. Benjamin, Detroit, Mich. Purifying apparatus for lubricants. No. 1,342,063; June 1; v. 275; p. 88.

Peters, Caroline A., Los Angeles, Calif. Hat. No. 1,342,132; June 1; v. 275; p. 102.

Petersen, Soren F., Chicago, Ill. Mop. No. 1,342,182; June 1; v. 275; p. 112.

Peterson, Per A., New York, N. Y. Combination implement. No. 1,341,759; June 1; v. 275; p. 29.

Petrusavage, Peter, Mahanoy City, Pa. Antisubmarine device. No. 1,342,064; June 1; v. 275; p. 88.

Pilon, Alfred. (See Gagnon, Siméon, assignor.)

Pirwitz, Friedrich A. G. (See Riddell, W. A., and Pirwitz.)

Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,341,995; June 1; v. 275; p. 74.

Placette, Joseph G., assignor to T. Placette, Port Arthur, Tex. Burner. No. 1,342,226; June 1; v. 275; p. 121.

Placette, Theodore. (See Placette, Joseph G., assignor.)

Plastoid Products, Inc. (See Routl, O. L., McConnell, and Glaze, assignors.)

Plucienski, John, Syracuse, N. Y. Freight loading and unloading crane. No. 1,341,996; June 1; v. 275; p. 75.

Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)

Polanco, Carlos L. (See Robert, August, assignor.)

Pope, Turner T., Houston, assignor of one-half to M. E. Foster, Harris county, Tex. Vaporizing attachment. No. 1,341,760; June 1; v. 275; p. 29.

Porter, Edwin F., assignor to United Mattress Machinery Company, Boston, Mass. Pump. No. 1,341,669; June 1; v. 275; p. 11.

Porter, Stephen C., Brooklyn, assignor to Porterphone Corporation, New York, N. Y. Telephone-transmitter. No. 1,341,997; June 1; v. 275; p. 75.

Porterphone Corporation. (See Porter, Stephen C., assignor.)

Potts, Thomas C. and A. R. Mann, Holtville, Calif. Container with adjustable false bottom. No. 1,341,927; June 1; v. 275; p. 62.

Powell, John T. (See Hubbard, Burtt J., assignor.)

Powell, Ransom J., Minneapolis, Minn. Casting-machine. No. 1,341,670; June 1; v. 275; p. 11.

Powlick, John J., Clairton, Pa. Rail-joint. No. 1,342,065; June 1; v. 275; p. 89.

Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)

Prudhomme, Robert L., Natchitoches, La. Automobile-tire. No. 1,342,297; June 1; v. 275; p. 134.

Putnam, F. A., Manufacturing Company. (See Putnam, F. A., and Reyoum, assignors.)

Putnam, Fred A. and O. C. Reyoum, assignors to F. A. Putnam Manufacturing Company, Keene, N. H. Traction-chain for caterpillar-tractors and the like. No. 1,341,761; June 1; v. 275; p. 29.

Putney, Albert N., Syracuse, N. Y. Fish-stringer. No. 1,341,722; June 1; v. 275; p. 21.

Quackenboss, Leonard G., Chicago, Ill. Display-holder. No. 1,341,822; June 1; v. 275; p. 41.

Radio Corporation of America. See Weagant, Roy A., assignor.)

Rainey, Paul M., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,341,998; June 1; v. 275; p. 75.

Raley, William H., Claremore, Okla. Gate-hanger. No. 1,342,227; June 1; v. 275; p. 121.

Ransom, George H., Birmingham, England. Wind-screen for use on conveyances and like purposes. No. 1,342,183; June 1; v. 275; p. 112.

Rasel, Louis C. (See Allender, Charles W. G., assignor.)

Raner, Philipp, New York, assignor to Permolin Products Company, Inc., Brooklyn, N. Y. Process of producing molded objects and apparatus for use in connection therewith. No. 1,342,184; June 1; v. 275; p. 112.

Ray, Frederick, Short Hills, N. J. Apparatus for manufacturing piston-rings. No. 1,341,671; June 1; v. 275; p. 11.

Read, Perry D., Norfolk, Va. Automobile-bumper. No. 1,342,393; June 1; v. 275; p. 151.

Rector, Enoch, New York, N. Y. Portable burner. No. 1,341,672; June 1; v. 275; p. 12.

Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)

Reed, Evan L., Sterling, Ill. Paper-roll support. No. 1,341,862; June 1; v. 275; p. 49.

Reinhold, Herman F. (See Bauer, H. R., and Reinhold.)

Remington Typewriter Company. (See Labofish, Charles S., assignor.)

Remington Typewriter Company (See Scib, George A., assignor.)

Remington Typewriter Company. (See Woodward, Oscar, assignor.)

Renner, Nicholas, Defiance, Ohio. Ventilator. No. 1,342,066; June 1; v. 275; p. 89.

Rennie, George J., Buffalo, N. Y. Rail-block for furnaces. No. 1,341,928; June 1; v. 275; p. 62.

Repony, Daniel, Passaic, N. J., assignor to The Manhattan Rubber Mfg. Company. Clutch-facing. No. 1,341,673; June 1; v. 275; p. 12.

Reynolds, Arthur W., Newtown, Conn. Tractor-harrow-operating mechanism. No. 1,341,824; June 1; v. 275; p. 42.

Reyoum, Orley C. (See Putnam, F. A., and Reyoum.)

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Terry-loom. No. 1,341,929; June 1; v. 275; p. 62.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,341,999; June 1; v. 275; p. 75.

Rhodin, Jacob F., Highland Park, Mich. Illuminating apparatus. No. 1,341,674; June 1; v. 275; p. 12.

Rich, Ralph E. (See Ladd, J. W. B., and Rich.)

Richardson, Linwood T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Producing molded products. No. 1,342,067; June 1; v. 275; p. 89.
Richenbacher, Adolph. (See Winger, S. C., and Richenbacher.)
Riddell, William A., and F. A. G. Pirwitz, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 1,341,823; June 1; v. 275; p. 42.
Riker, Samuel M. (See Kadow, Richard C., assignor.)
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,341,675; June 1; v. 275; p. 12.
Rizzuto, James, New Orleans, La. Rail-joint. No. 1,342,228; June 1; v. 275; p. 121.
Roberson, S. Denver, St. Louis, Mo. Street-indicator. No. 1,342,394; June 1; v. 275; p. 152.
Robert, August, assignor to C. L. Polanco, Coatepec, Veracruz, Mexico. Apparatus for treating coffee. No. 1,341,676; June 1; v. 275; p. 12.
Roberts, James M., near St. Joseph, Mo. Mid-ocean station. No. 1,341,677; June 1; v. 275; p. 13.
Robinson Connector Company, The. (See Robinson, Joseph V., assignor.)
Robinson, James. (See Erskine-Murray, J., and Robinson.)
Robinson, Joseph V., Santa Monica, Calif., assignor to The Robinson Connector Company, Washington, D. C. Automatic train-pipe connector. (Reissue.) No. 14,873; June 1; v. 275; p. 156.
Roblin, Brock R., assignor to Wayne Specialty Manufacturing Corporation, Rochester, N. Y. Key-ring holder. No. 1,341,930; June 1; v. 275; p. 62.
Roe, Noble H., Marceline, Mo. Rail-joint. No. 1,341,931; June 1; v. 275; p. 63.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit-breaker. No. 1,341,678; June 1; v. 275; p. 13.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Roos, Delmar G., Fairfield, Conn., assignor to The Locomobile Company of America, New York, N. Y. Electric switch. No. 1,342,229; June 1; v. 275; p. 121.
Rosemire, Richard W., Walden, N. Y. Hat-frame. No. 1,341,679; June 1; v. 275; p. 13.
Rosenquist, Anton, assignor of one-fourth to J. Arceneau, Superior, Wis. Ax sheath or carrying case. No. 1,342,395; June 1; v. 275; p. 152.
Ross, David H., Long Beach, Calif. Circuit-controlling switch for headlights. No. 1,341,932; June 1; v. 275; p. 63.
Ross, Fred, Papillion, Nebr. Carbureter control. No. 1,341,762; June 1; v. 275; p. 29.
Routt, Orville L., G. C. McConnell, and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Method of and machine for handling plaster-board. No. 1,342,185; June 1; v. 275; p. 113.
Roy, Edward H., Nashville, Tenn. Ear hand-mirror. No. 1,342,350; June 1; v. 275; p. 144.
Roy, Edward H., Nashville, Tenn. Mouth hand-mirror. No. 1,342,351; June 1; v. 275; p. 144.
Ruebush, Lee L., Scioto, Ill. Trash and sod chopper or cutter. No. 1,341,825; June 1; v. 275; p. 42.
Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,342,068; June 1; v. 275; p. 89.
Rumney, Fred A., Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Eyeleting-machine. No. 1,341,763; June 1; v. 275; p. 30.
Runner, Ward R. (See Neff, F. M., and Runner.)
Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,341,863; June 1; v. 275; p. 49.
Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,341,864; June 1; v. 275; p. 49.
Russ Company, The. (See Joslin, Charles T., assignor.)
Russ Company, The. (See Schutt, Theodore H., assignor.)
Rutherford, John A., Richmond, Va. Center-slot steel furniture. No. 1,342,030; June 1; v. 275; p. 82.
Ruzicka, Frank, Chicago, Ill. Shade and curtain-pole bracket. No. 1,342,230; June 1; v. 275; p. 122.
Sacks, Bernard. (See Goldfarb, N. J., and Sacks.)
Safe-Cabinet Company, The. (See Dick, R. H., and Wolters, assignors.)
Saltzman, Joseph G., Brooklyn, N. Y., assignor to Acoustiscope Corporation. Motion-picture and sound-reproducing apparatus. No. 1,341,933; June 1; v. 275; p. 63.
San Pablo Oil Mills, Limited. (See McCord, John D., assignor.)
Sargent, Frederick, Chicago, Ill. Expansion connection. No. 1,342,133; June 1; v. 275; p. 102.
Satterlee, Charles H., Danville, Ill. Brake. No. 1,342,352; June 1; v. 275; p. 144.
Saunders, Bertram H. (See Taylor, C., and Saunders.)
Saunders, Clarence R. (See Alexander, George D., assignor.)
Sawyer, Marion B. (See Hanson, H. C., and Sawyer.)
Schaanning, Peder C., Vestre Holmen, near Christiania, Norway. Grinding apparatus for the manufacture of wood-pulp. No. 1,342,231; June 1; v. 275; p. 122.
Schamberg, Morris L., New York, N. Y. Attachment for faucets. No. 1,342,000; June 1; v. 275; p. 75.
Schedler, Arnold, Manchester, England, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs capable of being diazotized and making same. No. 1,342,134; June 1; v. 275; p. 103.
Schiff, Robert. (See Meyer, L., and Schiff.)
Scrivenor, Arthur. (See Lee, Robert C., assignor.)
Schleicher, Henry M. (See Hayward, C. R., Stillman, and Schleicher.)
Schmidt, Charles D. (See Bower, Frank A., assignor.)
Schmidt, Lawrence S., Pittsburgh, Pa. Pulverized-fuel feeder. No. 1,342,135; June 1; v. 275; p. 103.
Schneider, Jean J. M. A. E., Paris, France. Construction of hinge for connecting the warping planes to the wings or fixed planes in aircraft. No. 1,342,353; June 1; v. 275; p. 144.
Schoenborn, Gustav C., assignor, by mesne assignments, to Manufacturers Machine Products Co., Detroit, Mich. Tool-holder. No. 1,341,934; June 1; v. 275; p. 63.
Schoenmaker, Arthur, Baton Rouge, La. Bed attachment. No. 1,342,354; June 1; v. 275; p. 144.
Schrader's, A., Son. (See Volckhausen, Julius, assignor.)
Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Dry cell. No. 1,342,091; June 1; v. 275; p. 76.
Schumaker, Lorraine J., assignor to The American Pretzel Company, Philadelphia, Pa. Container. No. 1,342,069; June 1; v. 275; p. 89.
Schussler, John H., assignor to Acme Printing Appliance Co., Chicago, Ill. Inking-roll truck for printing-presses. No. 1,342,355; June 1; v. 275; p. 145.
Schustarich, George, Cicero, Ill. Indicator-holder. No. 1,341,936; June 1; v. 275; p. 64.
Schutt, Theodore H., assignor to The Russ Company, Cleveland, Ohio. Switch-operating mechanism. No. 1,341,764; June 1; v. 275; p. 30.
Scott, Herman W., Gardiner, Me. Combination roof-framing tool. No. 1,342,232; June 1; v. 275; p. 122.
Sebring, Theosis C., Kansas City, Mo. Heating apparatus. No. 1,341,723; June 1; v. 275; p. 21.
Sedgke & Kohlhaus Mfg. Co. (See Holy, James R., assignor.)
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,186; June 1; v. 275; p. 113.
Selwacki, Ben, Kulpmont, Pa. Shade-holder. No. 1,342,070; June 1; v. 275; p. 90.
Shafer, James N., Denver, Colo. Multiple-compartment inner tube for automobile and other tires. No. 1,341,936; June 1; v. 275; p. 64.
Shallcross, Wilmer M., Milwaukee, Wis. Motor-controller. No. 1,341,937; June 1; v. 275; p. 64.
Shaw, Harry H., Cambria, Calif. Can-spout. No. 1,342,299; June 1; v. 275; p. 134.
Shaw, James C. (See Melten, J. F., and Shaw.)
Sheler, John C., and R. B. Austin, Cadillac, Mich. Flexible coupling. No. 1,342,300; June 1; v. 275; p. 135.
Sherwin, Frank, Brookings, S. D. Agricultural implement. No. 1,341,724; June 1; v. 275; p. 22.
Shipley Construction and Supply Company. (See Stair, William S., assignor.)
Shoemaker, Robert J., Topeka, Kans. Bearing element and manufacturing same. No. 1,341,938; June 1; v. 275; p. 64.
Shoner, John, assignor to The Chase Companies, Inc., Waterbury, Conn. Making installation-loops for electric fixtures. No. 1,342,071; June 1; v. 275; p. 90.
Shook, Roy B., Dayton, Ohio. Pipe-wrench. No. 1,342,356; June 1; v. 275; p. 145.
Sicard, Hugh C., Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y. Production of low-carbon ferrochrome. No. 1,341,939; June 1; v. 275; p. 64.
Sickles, Myra B., Alpine, N. J. Shoe-lace tip. No. 1,341,940; June 1; v. 275; p. 64.
Sims, Jefferson D. (See Cook, L. P., and Sims.)
Skedgell, David E., Fall River, Mass., assignor to Draper Corporation, Hopedale, Mass. Cushion-spring shuttle-check. No. 1,341,941; June 1; v. 275; p. 64.
Skibinski, Adam, Greenfield, Mass. Tool-holder. No. 1,342,031; June 1; v. 275; p. 82.
Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Block-resurfacing mechanism. No. 1,341,765; June 1; v. 275; p. 30.
Sloane, Nathan, Brooklyn, N. Y. Handle for handbags. No. 1,342,301; June 1; v. 275; p. 135.
Smith, Amos H., Brooklyn, assignor to American Bank Note Company, New York, N. Y. Delivery mechanism for printing-machines. No. 1,342,187; June 1; v. 275; p. 113.
Smith, Elsie M. (See Smith, Henry C., assignor.)
Smith, George H. (See Macnab, J., and Smith.)
Smith, Henry C., Clintonville, Conn., assignor of one-half to E. M. Smith, Richmond Hills, N. Y. Cultivator. No. 1,342,302; June 1; v. 275; p. 135.
Smith, James A., Buffalo, N. Y. Flexible-sheet form for soft cuffs. No. 1,342,032; June 1; v. 275; p. 82.
Smith, Joseph E., Buffalo, N. Y. Clarinet-holder. No. 1,342,136; June 1; v. 275; p. 103.
Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass-annealing furnace. No. 1,342,233; June 1; v. 275; p. 122.
Smith, Walter K., Ellwood City, Pa. Tent. No. 1,342,234; June 1; v. 275; p. 122.
Snyder, Charles A., Dubuque, Iowa. Safety device for railway-crossings. No. 1,342,092; June 1; v. 275; p. 76.
Snyder, Theophilus F., Delphos, Ohio. Automobile-seat extension. No. 1,342,235; June 1; v. 275; p. 123

Société du Verre Triplex. (See Mascart, Léon F., assignor.)
Society of Chemical Industry in Basle. (See Schedler, Arnold, assignor.)
Solberg, Knut E., Philadelphia, Pa. Calipering-rule. No. 1,341,865; June 1; v. 275; p. 50.
Solomon, Serena, Youngstown, Ohio. Curtain-stretcher. No. 1,342,396; June 1; v. 275; p. 152.
Spelling, Thomas C., New York, N. Y. Puller for stoppers. No. 1,341,680; June 1; v. 275; p. 13.
Spencer, George F. (See Spencer, William H., assignor.)
Spencer Lens Co. (See Ott, H. N., and Bufton, assignors.)
Spencer, Thomas E., Wetaskuvin, Alberta, Canada. Bomb-thrower. No. 1,342,357; June 1; v. 275; p. 145.
Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Dirigible lamp. No. 1,341,681; June 1; v. 275; p. 14.
Sperry, Elmer A., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Controlling mechanism for ships' gyroscopes. No. 1,342,397; June 1; v. 275; p. 152.
Sperry, Elmer A., Brooklyn, N. Y. Electrode for searchlights and making same. No. 1,342,398; June 1; v. 275; p. 153.
Sperry Gyroscope Company. (See Sperry, Elmer A., assignor.)
Stair, William S., assignor to Shipley Construction and Supply Company, Brooklyn, N. Y. Automatic expansion-valve. No. 1,341,766; June 1; v. 275; p. 31.
Stake, Walter J. (See Hensel, H. F., and Stake.)
Stanley, Jacob H., Spring City, Pa. Woman's union-suit. No. 1,342,188; June 1; v. 275; p. 113.
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brazing end rings. No. 1,341,682; June 1; v. 275; p. 14.
Starr, Samuel E. (See Haas, Victor E., assignor.)
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for inductance-coils. No. 1,342,303; June 1; v. 275; p. 135.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,304; June 1; v. 275; p. 135.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,305; June 1; v. 275; p. 135.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,306; June 1; v. 275; p. 136.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,307; June 1; v. 275; p. 136.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for inductance coils. No. 1,342,308; June 1; v. 275; p. 136.
Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,309; June 1; v. 275; p. 136.
Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,310; June 1; v. 275; p. 136.
Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,311; June 1; v. 275; p. 136.
Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,312; June 1; v. 275; p. 136.
Stephens, Sterling, Bushnell, Fla. Auto-rim. No. 1,341,942; June 1; v. 275; p. 65.
Stern, Charles, New York, N. Y. Collar-button. No. 1,342,003; June 1; v. 275; p. 76.
Sternaman, John. (See Weaver, I. A., and Sternaman.)
Sternaman, John, Jr. (See Weaver, I. A., and Sternaman.)
Stewart, Edwin L., Huntington, W. Va. Drinking attachment for bottles. No. 1,341,826; June 1; v. 275; p. 42.
Stewart, Irving N., Philadelphia, Pa. Portable wardrobe. No. 1,342,269; June 1; v. 275; p. 229.
Stewart, Sylvester N., Dayton, Ohio. Combination railway-car and unicycle and coupling means therefor. No. 1,342,137; June 1; v. 275; p. 103.
Stifel, Herman C., *et al.* (See Hachmann, Frederick, assignor.)
Stillman, Frederick O. (See Hayward, C. R., Stillman, and Schleicher.)
Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Material-actuated release for clothes-wringers. No. 1,342,004; June 1; v. 275; p. 76.
Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Material-actuated release for clothes-wringers. No. 1,342,005; June 1; v. 275; p. 76.
Stocking, Sarah C., executrix. (See Stocking, Edgar B.)
Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
Stone, Charles E., Boston, Mass. Pencil-sharpener. No. 1,341,943; June 1; v. 275; p. 65.
Storle, Ole O., Tacoma, Wash. Automatic stop for sound-reproducing machines. No. 1,341,767; June 1; v. 275; p. 31.
Storle, Ole O., Tacoma, Wash. Machine-gun. No. 1,342,358; June 1; v. 275; p. 145.
Stowe, Floyd D., Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Disk-feeder. No. 1,342,189; June 1; v. 275; p. 113.
Stranders, Julien, Brooklyn, assignor to Atlanta Lithographic and Printing Company, New York, N. Y. Easel. No. 1,342,313; June 1; v. 275; p. 137.
Study, Nathaniel C., Kalamazoo, Mich. Tamping-machine. No. 1,341,944; June 1; v. 275; p. 65.
Study, Nathaniel C., Kalamazoo, Mich. Tamper and the like implement. No. 1,341,945; June 1; v. 275; p. 65.
Stupar, Maximillian F., assignor to A. J. Elias, Buffalo, N. Y. Landing-gear for flying-machines. No. 1,342,138; June 1; v. 275; p. 103.
Styll, Harry H., Southbridge, Mass. Periscope. No. 1,341,683; June 1; v. 275; p. 14.
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Sullivan, James F., *et al.* (See Palmer, Victor C., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sundt, Andreas, assignor to Brödrene Sundt, Vaerkölmaskinfabrik A/S, Christiania, Norway. Turning-lathes. No. 1,341,946; June 1; v. 275; p. 65.
Superior Manufacturing Company. (See Woock, H. J., and Woock, assignors.)
Swaim, Charles S. (See Nimmo, W. R., and Swaim.)
Sweasey, Frank R. (See Torno, Karl L., assignor.)
Sweney, Helene L., Boston, Mass. Drapery-holder. No. 1,341,684; June 1; v. 275; p. 14.
Swope, Leon W., assignor of one-half to M. C. Kelly, Vincennes, Ind. Headlight. No. 1,341,947; June 1; v. 275; p. 66.
Szako, John, Milwaukee, Wis. Saw-filling clamp. No. 1,342,236; June 1; v. 275; p. 123.
Szarek, Joseph, Livermore, Pa. Rail-joint. No. 1,342,006; June 1; v. 275; p. 77.
Talley, Randal E., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bevel-gear. No. 1,341,685; June 1; v. 275; p. 14.
Tate-Jones & Company. (See Trinks, Charles L. W., assignor.)
Taylor, Charles, and B. H. Saunders, Paterson, N. J. Piling-machine. No. 1,342,140; June 1; v. 275; p. 114.
Taylor, Harvey B., Philadelphia, Pa. System of lubrication. No. 1,341,866; June 1; v. 275; p. 50.
Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Portable stove. No. 1,342,072; June 1; v. 275; p. 90.
Tebeau, Lewis B., Concord, N. H. Heating device for lamp-chimneys. No. 1,342,359; June 1; v. 275; p. 145.
Ten Eyck, Walter P. (See Anderson, Andrew P., assignor.)
Tennille, Harry N., Dumbarton, Va. Permutation-padlock. No. 1,342,033; June 1; v. 275; p. 82.
Terstyansky, Albert A., Bridgeport, assignor to Winchester Repeating Arms Co., New Haven, Conn. Burglar-alarm. No. 1,342,104; June 1; v. 275; p. 96.
Thayer, Russell, Philadelphia, Pa. Extracting platinum and similar metals from their sands and ores. No. 1,341,686; June 1; v. 275; p. 14.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Face-plate for flush receptacles. No. 1,342,237; June 1; v. 275; p. 123.
Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator-mounting for motor-vehicles. No. 1,342,191; June 1; v. 275; p. 114.
Thomson, Judson L. (See Hayvener, Arthur R., assignor.)
Thorn, Earl, Clearfield, Pa. Manually-propelled wagon. No. 1,341,725; June 1; v. 275; p. 22.
Tidd, Charles L. (See March, C. M., and Tidd.)
Titanium Alloy Manufacturing Company, The. (See Bartlett, Louis E., assignor.)
Todbunter, Richard T., H. A. Duke, and A. Woods, Barnesboro, Pa. Trolley-hanger. No. 1,342,034; June 1; v. 275; p. 82.
Torno, Karl L., Berkeley, assignor of one-half to F. R. Sweasey, San Francisco, Calif. Combined cement. No. 1,342,360; June 1; v. 275; p. 146.
Totman, Frank B., Los Angeles, Calif. Portable paving plant. No. 1,341,948; June 1; v. 275; p. 66.
Townsend, Clyde, Newport News, Va. Auto signal-arm. No. 1,342,007; June 1; v. 275; p. 77.
Townsend Company. (See De Lapotterie, Otto H., assignor.)
Transit Vending Machine Company. (See Mann, James H., Jr., assignor.)
Trevillian, Guy R., Cicero, Ill. Apparatus for molding plastic materials. No. 1,342,192; June 1; v. 275; p. 114.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Recuperator. No. 1,342,072; June 1; v. 275; p. 90.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Heating-furnace. No. 1,342,074; June 1; v. 275; p. 90.
Troye, Einar, Christiania, Norway. Sheet-piling. No. 1,341,949; June 1; v. 275; p. 66.
Trulock, George H., Los Angeles, Calif. Advertising device. No. 1,341,950; June 1; v. 275; p. 66.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and generating system. No. 1,342,401; June 1; v. 275; p. 155.
Turner, Martha K., Chicago, Ill. Sifter powder-box. No. 1,341,951; June 1; v. 275; p. 67.
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)

Underdahl, Albert, Cannon Falls, Minn. Gas-turbine. No. 1,342,314; June 1; v. 275; p. 137.
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
United Mattress Machinery Company. (See Porter, Edwin F., assignor.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Drey, Wilfred J., assignor.)
United Shoe Machinery Corporation. (See Glidden, Walter J., assignor.)
United Shoe Machinery Corporation. (See Heys, John J., assignor.)
United Shoe Machinery Corporation. (See Latham, Albert, assignor.)
United Shoe Machinery Corporation. (See Rumney, Fred A., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Envelope Company. (See Langguth, Wilhelm, assignor.)
United States Ferro-Alloys Corporation. See Sicard, Hugh C., assignor.)
United States Window Glass Company. (See Allan, James H., assignor.)
Van der Leun, Cornelis, The Hague, Netherlands. Lock. No. 1,342,075; June 1; v. 275; p. 90.
Van Sant, Victor H., Newark, N. J. Air-inlet device. No. 1,342,193; June 1; v. 275; p. 114.
Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Magnetic contactor. No. 1,341,867; June 1; v. 275; p. 50.
Van Wormer Arba, Fort Wayne, Ind. Shutter for cinematographs. No. 1,342,076; June 1; v. 275; p. 91.
Varicle, Roger H., Los Angeles, Calif. Garment-hanger. No. 1,341,827; June 1; v. 275; p. 42.
Vaughan, David F., Riverton, N. J. Combined tie-plate and rail-brace. No. 1,342,194; June 1; v. 275; p. 114.
Veith, Paul, San Francisco, Calif. Door-hasp. No. 1,342,361; June 1; v. 275; p. 146.
Venable, Wm. H., *et al.* (See Clark, Cornelius S., assignor.)
Vereinigte Glanzstoff-Fabriken, A. G. (See Hesse, Leopold, assignor.)
Vervoort, Jules F., assignor of one-half to L. D. McJilton, Los Angeles, Calif. Gasket-sealing composition. No. 1,341,952; June 1; v. 275; p. 67.
Vetter, Joseph, Toledo, Ohio. Automobile-top. No. 1,341,687; June 1; v. 275; p. 14.
Vick, Henry, Chicago, Ill. Draft-damper mechanism for furnaces. No. 1,341,868; June 1; v. 275; p. 50.
Volckhausen, Julius, Weehawken, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Valve. No. 1,341,828; June 1; v. 275; p. 43.
Voeleker, Henry. (See Johnson, Frank P., assignor.)
Wachenheimer Bros. (See Hultman, C. G., and Wachenheimer, assignors.)
Wachenheimer Bros. (See Wachenheimer, Harry, assignor.)
Wachenheimer, Harry. (See Hultman, C. G., and Wachenheimer.)
Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Locket. No. 1,342,035; June 1; v. 275; p. 83.
Wachnlak, John, New York, N. Y. Automobile sled. No. 1,342,410; June 1; v. 275; p. 155.
Waelty, Angelica, South San Francisco, Calif. Clamp. No. 1,342,362; June 1; v. 275; p. 146.
Walker, Fred M., Detroit, Mich. Hydrocarbon-burner. No. 1,341,688; June 1; v. 275; p. 15.
Walker, Malcolm, Glasgow, Scotland. Electrically-operated friction-clutch. No. 1,342,270; June 1; v. 275; p. 129.
Walker, William T., Vinita, Okla. Change-speed mechanism. No. 1,342,195; June 1; v. 275; p. 115.
Wallace, Philip B., Burlingame, and F. H. Fox, San Francisco, Calif. Gear-clutch for bending-machines. No. 1,342,363; June 1; v. 275; p. 146.
Wallace, William, Edinburgh, Scotland. Telemotor apparatus. No. 1,342,238; June 1; v. 275; p. 123.
Walter, Harrison B., Danville, Ill. Combination-dies for punching, creasing, and finishing the heads of solid-end paper boxes. No. 1,342,239; June 1; v. 275; p. 123.
Walter, Harrison B., Philadelphia, Pa. Cutting-blade for stapling-machines. No. 1,342,240; June 1; v. 275; p. 124.
Walter, Henry C., Bridgeport, Conn., assignor to The Locomobile Company of America, New York, N. Y. Machine for and method of cutting gears. No. 1,341,953; June 1; v. 275; p. 67.
Walmsley, Cuthbert H., Eccles, England. Collapsible chair. No. 1,341,689; June 1; v. 275; p. 15.
Ward, James C., Little Rock, Ark. Whistle. No. 1,342,315; June 1; v. 275; p. 137.
Ware, Joseph L., Minneapolis, Minn. Extensible automobile. No. 1,342,139; June 1; v. 275; p. 103.
Warren, John M. (See Gore, Jacob L., assignor.)
Washburn-Crosby Company. (See Bakke, Julius O., assignor.)
Watres, Reyburn, Scranton, Pa. Lubricating system for steam-engines. No. 1,342,077; June 1; v. 275; p. 91.
Watson, Chauncey R., *et al.* (See Hachmann, Frederick, assignor.)
Watson, George W., Boston, Mass. Child's vehicle. No. 1,341,768; June 1; v. 275; p. 31.
Watson, Oliver E., Dayton, Ohio. Sanitary bottle-crate. No. 1,341,869; June 1; v. 275; p. 50.
Wayne Specialty Manufacturing Corporation. (See Roblin, Brock R., assignor.)
Weagant, Roy A., Roselle N. J., assignor, by mesne assignments, to Radio Corporation of America. Wireless signaling apparatus. No. 1,342,399; June 1; v. 275; p. 153.
Weaver, Ira A., assignor to the Weaver Manufacturing Company, Springfield, Ill. Tire-changer. No. 1,341,727; June 1; v. 275; p. 22.
Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Tire-changing mechanism. No. 1,341,729; June 1; v. 275; p. 23.
Weaver, Ira A., and J. Sternaman, Jr., assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-changing machine. No. 1,341,726; June 1; v. 275; p. 22.
Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-changing appliance. No. 1,341,728; June 1; v. 275; p. 23.
Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-removing appliance. No. 1,341,730; June 1; v. 275; p. 23.
Weaver Manufacturing Company. (See Weaver, I. A., and Sternaman, assignors.)
Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)
Wechsler, Louis, New York, N. Y. Mop and brush holder. No. 1,342,036; June 1; v. 275; p. 83.
Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Producing covered box-shells. No. 1,341,954; June 1; v. 275; p. 67.
Wein Sales Corporation. (See Coughlin, Joseph D., assignor.)
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Making triple seams. No. 1,341,769; June 1; v. 275; p. 31.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Cutting attachment for cutting-machines. No. 1,342,008; June 1; v. 275; p. 77.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Simultaneously cutting and sewing shirts and the like. No. 1,342,009; June 1; v. 275; p. 77.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Manufacturing union suits and drawers. No. 1,342,010; June 1; v. 275; p. 78.
Weise, Alvin P., Detroit, Mich. Sanding device for automobiles. No. 1,342,316; June 1; v. 275; p. 137.
Werner, Joseph R., Granite City, Ill. Hinge. No. 1,341,690; June 1; v. 275; p. 15.
Western Electric Company. (See Rainey, Paul M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Brown, Harold W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Dapprich, Carl E. L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kintzing, Reese T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lammers, Edwins S., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Starker, Charles W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Talley, Randal E., assignor.)
Wetzel, Myron H. (See White, U. B., and Wetzel.)
Whitaker-Glessner Company. (See Hill, Hugh G., assignor.)
White, John J., Ashland, Mass. Wrapping material. No. 1,341,955; June 1; v. 275; p. 67.
White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Inking mechanism. No. 1,341,691; June 1; v. 275; p. 15.
White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Inking-roller-driving mechanism. No. 1,341,692; June 1; v. 275; p. 15.
White, Joseph, Middlesex, assignor to Hall Printing Press Company, Dunellen, N. J. Printing-press. No. 1,341,693; June 1; v. 275; p. 16.
White, Joseph, Piscataway township, and W. Eckhard, Plainfield, assignors to Hall Printing Press Company, Dunellen, N. J. Sheet-gage. No. 1,341,694; June 1; v. 275; p. 16.

White, Union B., and M. H. Wetzel, Seattle, Wash. Card-distributing device. No. 1,341,695; June 1; v. 275; p. 16.
White, Walter W. S. W., Denver, Colo. Toy. No. 1,342,037; June 1; v. 275; p. 83.
Whitmore, John P., South Pasadena, Calif. Making painted shade material. No. 1,341,956; June 1; v. 275; p. 67.
Whittinghill, James W., Los Angeles, Calif. Oven. No. 1,341,829; June 1; v. 275; p. 43.
Whitton, Warren B., Columbia, S. C. Vehicle-jack. No. 1,342,140; June 1; v. 275; p. 103.
Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,342,241; June 1; v. 275; p. 124.
Wiecek, John, Rewloc, Pa. Rail-fastener. No. 1,342,196; June 1; v. 275; p. 115.
Wigle, Wilson B., Montebello, Calif. Clamp. No. 1,342,141; June 1; v. 275; p. 104.
Wikstrom, Edward, Lowell, Mass. Implement-holding device. No. 1,342,364; June 1; v. 275; p. 146.
Wilkin, John T., assignor to The Connersville Blower Company, Connersville, Ind. Proportional governor. No. 1,341,696; June 1; v. 275; p. 16.
Williams, Harrison R., Chicago, Ill., assignor to Dearborn Truck Company. Device for automobile conversion. No. 1,342,142; June 1; v. 275; p. 104.
Williams, Harrison R., Chicago, Ill., assignor to Dearborn Truck Company. Adjustable shaft-hanger for motor-vehicles. No. 1,342,143; June 1; v. 275; p. 104.
Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,342,242; June 1; v. 275; p. 124.
Willis, John, assignor to American Plate Glass Company, Kane, Pa. Sand-grading apparatus for glass-grinding machinery. No. 1,342,038; June 1; v. 275; p. 83.
Wilson, Elihu C., Los Angeles, Calif. Hoist. No. 1,341,957; June 1; v. 275; p. 68.
Wilson, John M., Healdton, Okla. Container. No. 1,342,243; June 1; v. 275; p. 124.
Wilson, William W., Los Angeles, Calif. Apparatus for mineral separation. No. 1,341,770; June 1; v. 275; p. 31.
Wilson, William W., Los Angeles, Calif. Underreamer. No. 1,342,406; June 1; v. 275; p. 155.
Wimperis, Herbert A., Minneapolis, Minn. Spring-oiler. No. 1,342,365; June 1; v. 275; p. 146.
Winchester Repeating Arms Co. (See Terstyansky, Albert A., assignor.)
Winger, Stover C., and A. Rickenbacher, Los Angeles, Calif. Electric speedometer. No. 1,341,958; June 1; v. 275; p. 68.
Wingert, John F., Jr., Brady township, Clearfield county, Pa. Tractor-coupling. No. 1,342,011; June 1; v. 275; p. 78.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,342,366; June 1; v. 275; p. 146.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,342,144; June 1; v. 275; p. 104.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatic sewing-machine. No. 1,342,367; June 1; v. 275; p. 147.
Wiren, Carl E., Brooklyn, N. Y. Thermal circuit-closer. No. 1,342,317; June 1; v. 275; p. 137.
Wisner, Clark N., New Orleans, La. Picker-head. No. 1,341,959; June 1; v. 275; p. 68.
Wisniewski, Felix, South Amboy, N. J. Rail-clamp. No. 1,342,078; June 1; v. 275; p. 91.
Woicula, Michael, Detroit, Mich. Internal-combustion engine. No. 1,342,368; June 1; v. 275; p. 147.
Wolcott, Chandler, Rochester, N. Y. Keyboard. No. 1,342,244; June 1; v. 275; p. 124.
Wolters, Carl F. (See Dick, R. H., and Wolters.)
Woltmann, Emil C. A. (See Elsenhauer, E. W., Flormann, and Waltmann.)
Woock, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Elbow check-valve. No. 1,341,870; June 1; v. 275; p. 51.
Woock, Walter R. (See Woock, Herbert J. and W. R.)
Wood, Alan D. (See Lewis, H. A., and Wood.)
Wood, Harold B., assignor to Gifford-Wood Company, Hudson, N. Y. Ice-conveyer. No. 1,341,697; June 1; v. 275; p. 16.
Woodard, William E., Lima, Ohio. Locomotive. No. 1,341,961; June 1; v. 275; p. 68.
Woods, Alexander. (See Todhunter, R. T., Duke, and Woods.)
Woodson, John B., Fayette, Mo. Wire-fence clamp. No. 1,341,698; June 1; v. 275; p. 17.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,197; June 1; v. 275; p. 115.
Wooldridge, James L., Decatur, Tex. Mote-board for cotton-gins. (Reissue.) No. 14,874; June 1; v. 275; p. 157.
Wrenn Adding Machine Company, The. (See Wrenn, Herbert A., assignor.)
Wrenn, Herbert A., assignor to The Wrenn Adding Machine Company, Washington, D. C. Calculator. No. 1,341,962; June 1; v. 275; p. 68.
Wright, H., *et al.* (See Hachmann, Frederick, assignor.)
Wright, John R., Wheeling, Mo. Adjustable sag-gate. No. 1,341,963; June 1; v. 275; p. 69.
Xardell, Charles A., Utica, N. Y. Tank. No. 1,341,965; June 1; v. 275; p. 69.
Yanacopoulos, George, New York, N. Y. Power-generating system. No. 1,342,318; June 1; v. 275; p. 138.
Yennett, John, and E. T. Lonkert, Atlanta, Ga. Machine for making reel-frames. No. 1,341,964; June 1; v. 275; p. 69.
Yoder, Edward, Tulsa, Okla. Vehicle-towing device. No. 1,342,079; June 1; v. 275; p. 91.
Yuyama, Shigezo, New York, N. Y. Incandescent electric lamp. No. 1,341,966; June 1; v. 275; p. 69.
Zahnter, Robert R., Kansas City, Mo. Sickle. No. 1,342,369; June 1; v. 275; p. 147.
Zawistowski, Martin, Brooklyn, N. Y. Grinder for rotary cloth-cutting machines. No. 1,341,699; June 1; v. 275; p. 17.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Metal Cap Company. (See Hammer, Charles, assignor.)
Ashland Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)
Baker, Stephen D., New York, N. Y. Towel-bar. No. 55,354; June 1; v. 275; p. 157.
Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article. Nos. 55,355–59; June 1; v. 275; p. 157.
Becolas, Militiades A., St. Louis, Mo. Condiment-holder. No. 55,360; June 1; v. 275; p. 158.
Benson, Ivar, Seattle, Wash. Tone-chamber for phonographs. No. 55,361; June 1; v. 275; p. 158.
Benson, Ivar, Seattle, Wash. Phonograph-cabinet. No. 55,362; June 1; v. 275; p. 159.
Blankinship, John S., Lynchburg, Va. Phonograph-cabinet. No. 55,363; June 1; v. 275; p. 159.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio. Tire-tread. No. 55,364; June 1; v. 275; p. 159.
Central Glass Works. (See Balda, Joseph O., assignor.)
Champane, George J., Beachmont, Mass. Sounding-post tool. No. 55,365; June 1; v. 275; p. 159.
Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. No. 55,366; June 1; v. 275; p. 160.
Cook, Raymond D., Tulsa, Okla. Radiator-cap. No. 55,367; June 1; v. 275; p. 160.
Corning Glass Works. (See Churchill, William, assignor.)
Delikat, Thomas, Newark, N. J. Belt and trousers clamp. No. 55,368; June 1; v. 275; p. 160.
Dowling, Delia G., New York, N. Y. Tray. No. 55,369; June 1; v. 275; p. 160.
Ebel, John, assignor to Susquehana Silk Mills, New York, N. Y. Textile fabric. No. 55,370; June 1; v. 275; p. 160.
Eberhard Faber Pencil Co. (See Pfous, Frank, assignor.)
Eden, Harold W., Chicago, Ill. Washing-machine or similar device. No. 55,371; June 1; v. 275; p. 160.
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 55,372–3; June 1; v. 275; p. 161.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Bottle-stopper. No. 55,374; June 1; v. 275; p. 161.
Fuller, Eugene, Providence, R. I. Lacing-tip. No. 55,375; June 1; v. 275; p. 161.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy wheelbarrow. No. 55,376; June 1; v. 275; p. 161.
Granz, Joseph, Duluth, Minn. Housing for motion-picture machines. No. 55,377; June 1; v. 275; p. 161.
Grooms, Harmon E., Columbus, Ga. Tire-tread. No. 55,378; June 1; v. 275; p. 162.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Auto-curtain window. No. 55,379; June 1; v. 275; p. 162.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-cap. No. 55,380; June 1; v. 275; p. 162.

Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine frame. No. 55,381; June 1; v. 275; p. 162.

High Speed Hammer Company, The. (See Leckinger, Philip H., assignor.)

Hovekamp, George B., Cincinnati, Ohio. Rosary. No. 55,382; June 1; v. 275; p. 162.

Kaczmarczyk, Joseph, Detroit, Mich. Rail-clamp. No. 55,383; June 1; v. 275; p. 162.

Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)

Kingsbury, Harry T. and E. J., Keene, N. H. Portable baby-swing. No. 55,384; June 1; v. 275; p. 163.

Kurtzmann, Louis S., Buffalo, N. Y. Phonograph-case. No. 55,386; June 1; v. 275; p. 163.

Kuzmiak, Peter, Connellsville, Pa. Pair of tongs. No. 55,385; June 1; v. 275; p. 163.

Leban, Louis, Pittsburgh, Pa. Gas-heater. No. 55,388; June 1; v. 275; p. 164.

Leckinger, Philip H., assignor to The High Speed Hammer Company, Inc., Rochester, N. Y. Drill-press frame. No. 55,387; June 1; v. 275; p. 163.

Levett, Clarence M., New York, N. Y. Fan. No. 55,389; June 1; v. 275; p. 164.

Maerz, Frederick K., assignor to The Scott-Ullman Co., Cleveland, Ohio. Wall-bracket. No. 55,390; June 1; v. 275; p. 164.

Mantle Lamp Company of America, The. (See French, Ira L., assignor.)

Marcus, Alex, Brooklyn, N. Y. Powder-cloth. No. 55,391; June 1; v. 275; p. 164.

Marcus, Alex, Brooklyn, N. Y. Powder-puff. No. 55,392; June 1; v. 275; p. 164.

Melville Shoe Corporation, The. (See Melville, Ward, assignor.)

Melville, Ward, assignor to The Melville Shoe Corporation, New York, N. Y. Shoe-heel. No. 55,393; June 1; v. 275; p. 164.

Moolten, Theodore A., New York, N. Y. Spat. No. 55,394; June 1; v. 275; p. 165.

O'Brien, Joseph E., Springfield, Mass. Pouring device. No. 55,395; June 1; v. 275; p. 165.

Pfous, Frank, Coshocton, Ohio, assignor to Eberhard Faber Pencil Co., New York, N. Y. Cabinet for rubber bands. No. 55,396; June 1; v. 275; p. 165.

Phillips, Earl, Cleveland, Ohio. Shoe-sole or similar article. No. 55,397; June 1; v. 275; p. 165.

Rennick, George H., Indianapolis, Ind. Emblem-button. No. 55,398; June 1; v. 275; p. 165.

Rieder, Charles, assignor to Frank Rieder & Sons, Philadelphia, Pa. Chair. No. 55,399; June 1; v. 275; p. 165.

Rieder, Frank, & Sons. (See Rieder, Charles, assignor.)

Scott-Ullman Co., The. (See Maerz, Frederick K., assignor.)

Shlamowitz, Hayman, Brooklyn, N. Y. Head-ring for electric-light fixtures. No. 55,400; June 1; v. 275; p. 166.

Susquehana Silk Mills. (See Ebel, John, assignor.)

Tents, Charles R., Columbus, Ohio. Game. No. 55,401; June 1; v. 275; p. 166.

Turton, William, East Orange, N. J. Bag-frame member or similar article. No. 55,402; June 1; v. 275; p. 166.

Underwood Typewriter Company. (See Helmond, William F., assignor.)

United States Glass Company. (See Haley, Reuben, assignor.)

Vester, Alfred, & Sons. (See Vester, Gustave J., assignor.)

Vester, Gustave J., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Sconce for a lighting-fixture or similar article. No. 55,403; June 1; v. 275; p. 166.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

American Textile Banding Company, Philadelphia, Pa. Cotton webbing. No. 131,930; June 1; v. 275; p. 199.

Barton Belt Company, assignor to Barton Manufacturing Co., Waco, Tex. Polish for leather goods. No. 131,931; June 1; v. 275; p. 199.

Canton Feed & Milling Company, The, Canton, Ohio. Wheat-flour and stock feed. No. 131,932; June 1; v. 275; p. 199.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in whole or part of silk. Nos. 131,933–4; June 1; v. 275; p. 199.

Clark, H. W., Biscuit Company, North Adams, Mass. Bakery products—namely, crackers and cakes. No. 131,935; June 1; v. 275; p. 199.

Daisy Products Company, Harrisburg, Pa. Candy. No. 131,936; June 1; v. 275; p. 199.

Dockelman, C. G., Co., Milwaukee, Wis. Poultry feed. No 131,937; June 1; v. 275; p. 199.

Gilbert, John O., Jackson, Mich. Chocolate candy. No. 131,938; June 1; v. 275; p. 199.

Gleason s, Edwin P., Son, Inc., New York, N. Y. Mercerized cotton piece goods. No. 131,939; June 1; v. 275; p. 199.

Home Woolen Mills, Eaton Rapids, Mich. Knitted and woven automobile robes, blankets, and cloth or fabric in the piece. No. 131,940; June 1; v. 275; p. 199.

Horowitz Bros. & Margareten, Inc., New York, N. Y. Cakes or biscuits called matzohs. No. 131,941; June 1; v. 275; p. 199.

Kops Bros., New York, N. Y. Textile fabrics. No. 131,942; June 1; v. 275; p. 199.

Ludewig, Fred'k., & Co., New York, N. Y. Elastic veil. No. 131,943; June 1; v. 275; p. 199.

Salembier & Clay, Inc., New York, N. Y. Silk crape piece goods. No. 131,944; June 1; v. 275; p. 199.

Sunset Silk Mills, New York, N. Y. Silk piece goods. No. 131,945; June 1; v. 275; p. 199.

Weiser Air-Storage Co., Weiser, Wash. Fresh apples. No. 131,946; June 1; v. 275; p. 199.

York Manufacturing Company, York, Pa. Refrigerating and ice making systems and parts thereof. No. 131,947; June 1; v. 274; p. 199.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Acme Ventilator Corporation, Lynn, Mass. Ventilators for exterior use on houses and buildings. No. 113,114; June 1; v. 275; p. 173.

Acorn Battery Company, Chicago, Ill. Electric batteries. No. 125,144; June 1; v. 275; p. 178.

Adjustable Sales Corporation, The, Rochester, N. Y. Children's velocipedes. No. 113,135; June 1; v. 275; p. 173.

Alaska Refrigerator Company, The, Muskegon, Mich. Refrigerators. No. 127,881; June 1; v. 275; p. 183.

Allied Machinery Company of America, New York, N. Y. Air-compressors, block-sheaves, pile-hammers, &c. No. 124,251; June 1; v. 275; p. 178.

Allied Machinery Company of America, New York, N. Y. Cars and carts for material-handling and industrial purposes, trailers, wagons, &c. No. 124,250; June 1; v. 275; p. 177.

Allied Machinery Company of America, New York, N. Y. Steel towers for general use, concrete-forms, and form-clamps. No. 124,252; June 1; v. 275; p. 178.

Allied Machinery Company of America, New York, N. Y. Wood, fiber, and canvas hand-buckets and bins. No. 124,245; June 1; v. 275; p. 177.

American Aggregate Company, Kansas City, Mo. Aggregate for use in preparing concrete. No. 128,814; June 1; v. 275; p. 186.

American Hand Rubber Company, Hempstead and New York, N. Y. Hard-rubber pipe-bits, and cigar and cigarette holders. No. 127,990; June 1; v. 275; p. 184.

American Lead Pencil Company, New York, N. Y. Lead-pencils. Nos. 130,503–6; June 1; v. 275; p. 194.

American Pin Company, The, Waterbury, Conn. Snap-fasteners. No. 127,570; June 1; v. 275; p. 183.

American Safetee Soap Corporation, Brooklyn, N. Y. Soap, shaving sticks, cream, and powder. No. 126,983; June 1; v. 275; p. 181.

Anderson, Alfred W., St. Paul, Minn. Children's sleds and wheeled coasters. No. 128,131; June 1; v. 275; p. 184.

Andersen, Meyer & Co., Limited, New York, N. Y. Toothbrushes. No. 128,079; June 1; v. 275; p. 184.

Arnheim, Benjamin H., Pittsburgh, Pa. Cleaning-polish for furniture, automobiles, leather goods, &c. No. 126,439; June 1; v. 275; p. 180.

Austin Company, The, East Cleveland, Ohio. Standard factory and other buildings and partially-fabricated parts thereof. No. 115,687; June 1; v. 275; p. 173.

Anti-Hydro Waterproofing Company, Newark, N. J. Liquid waterproofing and damp-proofing and liquid hardener for cement and cement-mixtures. No. 125,416; June 1; v. 275; p. 179.

Automotive Supply Company, Dallas, Tex. Gum-shellac. No. 128,195; June 1; v. 275; p. 185.

Babies Dispensary & Hospital of Cleveland, The, Cleveland, Ohio. Prepared milk food used in the feeding of infants. No. 130,315; June 1; v. 275; p. 193.

Baker R & L Company, The, Cleveland, Ohio. Automobiles. No. 119,544; June 1; v. 275; p. 175.

Bakers Products Company, The, Cleveland, Ohio. Oil compound used in the baking of food products as a pan-grease. No. 130,748; June 1; v. 275; p. 196.

Beardstown Grocer Co., Beardstown, Ill. Canned vegetables. No. 130,569; June 1; v. 275; p. 194.

Belclear Phonograph Corporation, New York, N. Y. Phonographs or talking-machines, records, cabinets, and needles. No. 129,776; June 1; v. 275; p. 191.

Bell Manufacturing Company, Winder, Ga. Overalls, overall shirts, jackets, and pants. No. 129,000; June 1; v. 275; p. 187.

Berdan Company, The, Toledo, Ohio. Table-desserts. No. 130,796; June 1; v. 275; p. 196.

Beterpack Canning Co., Decoto, Calif. Canned fruits and vegetables. No. 131,101; June 1; v. 275; p. 197.

Bliss, E. A., Company, Meriden, Conn. Combs of celluloid. No. 129,166; June 1; v. 275; p. 188.

Blue Island Specialty Co., Blue Island, Ill. Impression-trays, agate spatulas, draw-plates, &c. No. 117,831; June 1; v. 275; p. 174.

Boonville Mineral Spring Co., Utica and Boonville, N. Y. Spring, carbonated, &c., waters and non-alcoholic non-cereal maltless beverages and syrups for making same. No. 127,994; June 1; v. 275; p. 184.

Boston Wire Stitcher Company, East Greenwich, R. I. Wire stitching or stapling machines and parts thereof. No 131,065; June 1; v. 275; p. 197.

Brewer, Bert B., New York, N. Y. Women's hats. No. 123,609; June 1; v. 275; p. 176.

Britton, Coozie, Higginsville, Mo. Sets of cards for playing games. No. 128,877; June 1; v. 275; p. 187.

Brown, E., & Son (Blacking & Boot Polish Manufacturers) Limited, London, England. Polishes for cleaning, preserving and polishing leather and enameled goods. No. 130,265; June 1; v. 275; p. 193.

Buchanan, W. D., Co., Greenville, Ohio. Chocolate candy. No. 130,573; June 1; v. 275; p. 195.

Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Electric motors, switches, cut-outs, &c. No. 127,111; June 1; v. 275; p. 181.

Byrne & Hammer Dry Goods Co., Omaha, Nebr. Corsets. No. 122,466; June 1; v. 275; p. 176.

Card, Clellan L., Philadelphia, Pa. Toothbrushes. No. 129,125; June 1; v. 275; p. 187.

Cardinal Cabinet Company, The, Wabash, Ind. Parts of musical instruments, and particularly phonograph-cabinets, &c. No. 128,042; June 1; v. 275; p. 184.

Cardinet Candy Co., Oakland, Calif. Candy. No. 131,145; June 1; v. 275; p. 198.

Catawba Candy Co., Sandusky, Ohio. Candy. Nos. 130,716–18; June 1; v. 275; p. 195.

Catawba Candy Co., Sandusky, Ohio. Candy. No. 130,797; June 1; v. 275; p. 196.

Chatfield & Woods Co., The, Pittsburgh, Pa. Bond-paper for writing and printing purposes and wrapping paper. No. 131,257; June 1; v. 275; p. 198.

Chattanooga Plow Company, Chattanooga, Tenn. Plows and cane-mills and separate parts. No. 131,104; June 1; v. 275; p. 197.

Chelsea Engineering Sales Corporation, New York, N. Y. Bath-bricks, black-lead for polishing, carborundum, oil-stone, &c. No. 130,210; June 1; v. 275; p. 192.

Chute & Butler Co., Peru, Ind. Pianos. No. 128,043; June 1; v. 275; p. 184.

Cirola Phonograph Corporation, Philadelphia, Pa. Phonographs. No. 123,976; June 1; v. 275; p. 177.

Citrus Soap Company, San Diego, Calif. Washing-powder. No. 128,542; June 1; v. 275; p. 186.

Clarke, H., & Sons, Inc., Baltimore, Md. Soap. No. 122,040; June 1; v. 275; p. 175.

Cleary, Robert, Portland, Oreg. Laundry compounds in powdered form. No. 123,533; June 1; v. 275; p. 176.

Cleveland Ignition Company, Cleveland, Ohio. Ignition and electric-lighting systems for automobiles and repair parts therefor, &c. No. 127,424; June 1; v. 275; p. 182.

Cohen & Ehrenberg, New York, N. Y. Light-weight all-wool worsted in the piece. No. 127,897; June 1; v. 275; p. 183.

Collins-Hencke Candy Co., San Francisco, Calif. Candy. No. 130,719; June 1; v. 275; p. 196.

Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 126,896; June 1; v. 275; p. 180.

Cooper Underwear Company, Kenosha, Wis. Hosiery. No. 127,357; June 1; v. 275; p. 182.

Debow & Co., Newark, N. J. Eggs. No. 129,454; June 1; v. 275; p. 190.

Deubener, Walter H., St. Paul, Minn. Hand paper bag. No. 115,833; June 1; v. 275; p. 174.

Detroit Show Case Company, Detroit, Mich. Knock-down stove-fronts and parts thereof. No. 128,598; June 1; v. 275; p. 186.

Detroit Stove Works, Detroit, Mich. Heating and cooking stoves, furnaces, and ranges and parts. No. 126,763; June 1; v. 275; p. 180.

Dewey & Almy Chemical Company, Cambridge, Mass. Adhesives, including cement, glue, and mucilage. No. 130,363; June 1; v. 275; p. 193.

Dold, Jacob, Packing Co., Buffalo, N. Y. Lard. No. 131,154; June 1; v. 275; p. 198.

Donmeyer, Gardner Co., Peoria, Ill. Mixed feeds for horses, cattle, hogs, &c. No. 129,490; June 1; v. 275; p. 191.

Dryfoos, Sidney O. E., New York, N. Y. Hosiery and underwear. No. 119,795; June 1; v. 275; p. 175.

Dunham, James H., & Co., New York, N. Y. Velvet piece goods. No. 129,456; June 1; v. 275; p. 190.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 129,311–12; June 1; v. 275; p. 189.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 129,314–16; June 1; v. 275; p. 189.

Embee Distributing Company, New York, N. Y. Candy. No. 130,958; June 1; v. 275; p. 196.

Embee Distributing Company, New York, N. Y. Games. No. 130,411; June 1; v. 275; p. 193.

Emerson Phonograph Company, Inc., New York, N. Y. Phonographs and phonograph-records. No. 111,960; June 1; v. 275; p. 173.
Everett Knitting Works, Lebanon, N. H. Knitted underwear, both one and two piece. No. 126,277; June 1; v. 275; p. 180.
Fageol Motors Company, Oakland, Calif. Tractors. No. 130,813; June 1; v. 275; p. 196.
Faire Bros. & Co. Limited, Leicester, England. Elastic webs. No. 117,657; June 1; v. 275; p. 174.
Fargo Mercantile Co., Fargo, N. D. Coffee. No. 130,585; June 1; v. 275; p. 195.
Finley Acker Co., Philadelphia, Pa. Barley, buckwheat, cornmeal, wheat and rye flour, &c. No. 130,256; June 1; v. 275; p. 192.
Fisher, L., Son & Co., Philadelphia, Pa. Hosiery. No. 126,018; June 1; v. 275; p. 179.
Forbriger, Paul, & Co., New York, N. Y. Watches, watch-cases, works, and dials. No. 129,318; June 1; v. 275; p. 189.
Ford Manufacturing Co., Waterford, N. Y. Knitted underwear. No. 127,361; June 1; v. 275; p. 182.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 128,939; June 1; v. 275; p. 187.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 129,834; June 1; v. 275; p. 191.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 129,975; June 1; v. 275; p. 192.
Francis, Frank, Seattle, Wash. Washing compounds, and particularly tablets. No. 129,010; June 1; v. 275; p. 187.
Gatlin, E. C., Company, Kansas City, Mo. Prepared cake mixture. No. 128,775; June 1; v. 275; p. 186.
Gidding, L. & Co., New York, N. Y. Middy-blouses. No. 119,942; June 1; v. 275; p. 175.
Ginsberg, R., & Bro., New York, N. Y. Ladies' hair-nets. No. 124,047; June 1; v. 275; p. 177.
Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 123,979; June 1; v. 275; p. 177.
Gold Fish Ginger Ale Company, Pocatello, Idaho. Ginger-ale. No. 128,839; June 1; v. 275; p. 186.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Tea. No. 126,413; June 1; v. 275; p. 180.
Great Northern Toy Co. Inc., New York, N. Y. Toy hydro- and aero-planes. No. 127,212; June 1; v. 275; p. 182.
Hammond Iron Works, Warren, Pa. Oil-tanks. No. 127,757; June 1; v. 275; p. 183.
Hartman Furniture & Carpet Co., Chicago, Ill. Phonographs and phonograph-cabinets. No. 125,180; June 1; v. 275; p. 178.
Hawk-Eye Mfg. Company, Dallas, Tex. Polishing preparation for automobiles, carriages, coaches, floors, &c. No. 127,047; June 1; v. 275; p. 181.
Hellman, Frederick, Company, Johnstown, Pa. Inhalers. No. 128,602; June 1; v. 275; p. 186.
Henry-Brown Co., Glendale, Calif. Ginger-ale, grape-punch, root-beer, &c. No. 128,828; June 1; v. 275; p. 186.
Hexter-Stewart Corporation Company, The, Cleveland, Ohio. Liquid soap. No. 113,468; June 1; v. 275; p. 173.
Hickey, Elizabeth M., Seattle, Wash. Cleaning compound. No. 102,864; June 1; v. 275; p. 167.
Hill, Ernest A., San Francisco, Calif. Overalls for children. No. 115,730; June 1; v. 275; p. 174.
Hoffman, F., & Sons, Inc., Newark, N. J. Lemon tru-fru, birch-beer, coco-cream, &c. No. 120,644; June 1; v. 275; p. 175.
Hofstra Manufacturing Company, Tulsa, Okla. Grease-eradicators. No. 123,981; June 1; v. 275; p. 177.
Holman, Russell, Minneapolis, Minn. Coffee substitute. No. 130,595; June 1; v. 275; p. 195.
Holt Manufacturing Company, The, Stockton, Calif. Wagons. No. 118,011; June 1; v. 275; p. 175.
Hooven, Paul M., New York, N. Y. Typewriters. No. 131,111; June 1; v. 275; p. 197.
Horton Manufacturing Co., The, Bristol, Conn. Fishing-lines. No. 128,551; June 1; v. 275; p. 186.
Huber, Joseph M., New York, N. Y. Printing-inks. No. 123,850; June 1; v. 275; p. 177.
Huggins Candy Co., Nashville, Tenn. Candy. No. 130,833; June 1; v. 275; p. 196.
Imperial Hosiery Co., Pittsburgh, Pa. Boys' stockings. No. 129,013; June 1; v. 275; p. 187.
International Company, The, Baltimore, Md. Milk powder. No. 130,594; June 1; v. 275; p. 195.
International Harvester Company, Chicago, Ill. Cultivators and separate parts for each of said machines. No. 131,112; June 1; v. 275; p. 197.
Irving Iron Works Company, Long Island City, N. Y. Metal gratings for floorings and staircases. No. 129,721; June 1; v. 275; p. 191.
Janes, Josephine, Co., Lynbrook, and New York, N. Y. Dolls. No. 129,895; June 1; v. 275; p. 192.
Jennings Lace Works Corp., Brooklyn, N. Y. Dress-nets, millinery-nettings, veilings, &c. No. 129,146; June 1; v. 275; p. 188.
Jordan Motor Car Co., Cleveland, Ohio. Automobiles. No. 117,051; June 1; v. 275; p. 174.
Kauai Fruit & Land Co., Honolulu, Territory of Hawaii. Canned fruits. No. 130,599; June 1; v. 275; p. 195.
Keiner & Pohl Company, Milwaukee, Wis. Leather-dressings. No. 130,708; June 1; v. 275; p. 195.
Kelleher, John H., Randolph, Mass. Boots, shoes, slippers, and sandals. No. 128,446; June 1; v. 275; p. 185.
Kelly Reamer Company, Cleveland, Ohio. Reamers. No. 130,834; June 1; v. 275; p. 196.
Kimball & Sherman Company, Haverhill, Mass. Leather boots and shoes. No. 128,308; June 1; v. 275; p. 185.
Kunzemann, John J., Brooklyn, N. Y. Automobile-mirrors. No. 127,092; June 1; v. 275; p. 181.
Lange Soap Co., San Antonio, Tex. Soap. No. 122,127; June 1; v. 275; p. 176.
Lash's Bitters Co., New York, N. Y. Non-alcoholic beverage. No. 127,924; June 1; v. 275; p. 184.
Lanbheim Bros., New York, N. Y. Watches. No. 126,131; June 1; v. 275; p. 179.
Lawton, Arthur J., Rockford, Ill. Bread. No. 131,077; June 1; v. 275; p. 197.
Levy, Maurice, New York, N. Y. Paper towels. No. 131,114; June 1; v. 275; p. 198.
Lincoln Paint & Color Co., Lincoln, Nebr. Paints, varnishes, floor-wax, putty, &c. No. 127,219; June 1; v. 275; p. 182.
Lindenmeyr, Henry, & Sons, New York, N. Y. Printing and writing paper. No. 128,061; June 1; v. 275; p. 184.
Lorain Rubber Heel Company, Lorain, Ohio. Rubber heels. No. 128,848; June 1; v. 275; p. 186.
Lord & Taylor, New York, N. Y. Shoes. No. 129,192; June 1; v. 275; p. 188.
Ludwig, Arthur L., New York, N. Y. Textile fabrics. No. 127,297; June 1; v. 275; p. 182.
Lyon & Healy, Chicago, Ill. Banjos, mandolins, guitars, &c. No. 129,330; June 1; v. 275; p. 190.
MacGregor, James D., Stamford, Conn. Preparation for improving certain soils and treating the roots of fruit and shade trees, &c. No. 125,116; June 1; v. 275; p. 178.
Macy, R. H., & Co., Inc., New York, N. Y. Children's one-piece sleeping-suits. No. 121,095; June 1; v. 275; p. 175.
Maryland Company, Baltimore, Md. Children's overall play-suits. No. 129,239; June 1; v. 275; p. 188.
Meldram, Minnie M., New York, N. Y. Dolls. No. 128,397; June 1; v. 275; p. 185.
Merchants Trade Association Company, Chicago, Ill. Leather boots and shoes. No. 129,272; June 1; v. 275; p. 188.
Middlesex County Creamery Co., Boston, Mass. Oleomargarin. No. 108,996; June 1; v. 275; p. 167.
Miller, Edward, & Co., Meriden, Conn. Electric-lighting fixtures and lamps. No. 127,457; June 1; v. 275; p. 183.
Mills Brothers Company, The, Cincinnati, Ohio. Soap. No. 126,187; June 1; v. 275; p. 180.
Minnesota Roofing & Cornice Works, St. Paul, Minn. Fire-doors. No. 131,531; June 1; v. 275; p. 198.
Moldenhauer, Henry R., Watertown, Wis. Brick cheese. No. 125,396; June 1; v. 275; p. 179.
Morris Adler Company, The, Quincy, Ill. Automobiles. No. 125,869; June 1; v. 275; p. 179.
Morris & Yoemans, Limited, Redditch, England. Boot-drivers, boot-awls, machinery-springs. No. 116,889; June 1; v. 275; p. 174.
Murphy, Jos. B., Sons, St. Louis, Mo. Chocolate rolls and candies. No. 131,036; June 1; v. 275; p. 197.
Mutual Trading Company, New York, N. Y. Bedspreads, comfortables, and blankets. No. 110,011; June 1; v. 275; p. 168.
M W M Soap Co., San Jose, Calif. Soap. No. 130,309; June 1; v. 275; p. 193.
Napco Corporation, Indianapolis, Ind. Pastelike preparation for shaving and skin-healing purposes. No. 129,641; June 1; v. 275; p. 191.
National Carbon Company, Inc., New York, N. Y. Electric batteries, flash-lights, dry cells, &c. No. 126,969; June 1; v. 275; p. 181.
National Papeterie Company, Springfield, Mass. Writing-paper and envelops. No. 109,699; June 1; v. 275; p. 167.
Neuberger, Andrew J., Boston, Mass. House, hat, sink, cuspidor, and dish-cleaning brushes. No. 127,146; June 1; v. 275; p. 181.
Olmstead, Albert, Philadelphia, Pa. Oil for use in making cores in foundries. No. 129,278; June 1; v. 275; p. 188.
Omega Chemical Company, The, New York, N. Y. Soaps. No. 126,695; June 1; v. 275; p. 180.
Pacific Coast Borax Co., New York, N. Y. Soap and soap chips. No. 129,795; June 1; v. 275; p. 191.
Palmyra Knitting Company, Palmyra, N. J. Women's knit napkins. No. 126,136; June 1; v. 275; p. 179.
Parsons & Whittemore Inc., New York, N. Y. Writing, printing, blotting, and wrapping papers. No. 126,422; June 1; v. 275; p. 180.
Perfection Biscuit Company, Fort Wayne, Ind. Cake. No. 130,055; June 1; v. 275; p. 192.
Piano Motors Corporation, Camden, N. J. Electrically-operated vacuum-creating apparatus for player-pianos. No. 129,567; June 1; v. 275; p. 191.
Piper, Roscoe B., Sioux City, Iowa. Automobile tires and tubes. No. 114,432; June 1; v. 275; p. 173.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 129,745; June 1; v. 275; p. 191.
Procter and Gamble Company, The, Cincinnati, Ohio. Paper-pulp. No. 128,275; June 1; v. 275; p. 185.

Prnett-Schaffer Chemical Company. Pittsburgh, Pa. Ready-mixed paints, dry colors, asphalt paint, &c. No. 123,711; June 1; v. 275; p. 177.
Quinn, Frank O., Omaha, Nebr. Washing-powder. No. 130,731; June 1; v. 275; p. 196.
Radior Co. Ltd. of London, New York, N. Y. Forehead and underchin pads. No. 125,244; June 1; v. 275; p. 178.
Rainford, Jacob A., Bergenfield, N. J. Undervests, storm vests, padded and quilted vests, and jackets. No. 106,284; June 1; v. 275; p. 167.
Reardon, John J., Philadelphia, Pa. Ginger-ale, ginger-beer, sarsaparilla, and club-soda. No. 127,869; June 1; v. 275; p. 183.
Red Top Electric Company Inc., New York, N. Y. Electric stoves and toasters. No. 127,605; June 1; v. 275; p. 183.
Reese & Company, Atlanta, Ga. Candy. No. 130,919; June 1; v. 275; p. 196.
Regennas, C. Fred., & Sons Company, Inc., Lititz, Pa. Candy. No. 131,041; June 1; v. 275; p. 197.
Rice, A. H., Company, Pittsfield, Mass. Silk thread and yarn. Nos. 131,188–9; June 1; v. 275; p. 198.
Richards, Arthur W., West Hartford, Conn. Compounds used for cleansing, polishing, and burnishing the surfaces of metal and glass. No. 128,521; June 1; v. 275; p. 185.
Rochester Germicide Company, Rochester, N. Y. Liquid soap, sweeping compound, metal-polish, &c. No. 123,079; June 1; v. 275; p. 176.
Rose, Leon R., New Haven, Conn. Powder-puff. No. 126,486; June 1; v. 275; p. 180.
Rosenthal, Maurice, San Francisco, Calif. Coffee. No. 130,619; June 1; v. 275; p. 195.
Rosin & Turpentine Export Company, New York, N. Y., and Savannah, Ga. Rosin. Nos. 129,280–6; June 1; v. 275; pp. 188–9.
Rosin & Turpentine Export Company, New York, N. Y., and Savannah, Ga. Rosin. Nos. 129,346–50; June 1; v. 275; p. 190.
Royal Packing Co., Los Angeles, Calif. Soap. No. 130,620; June 1; v. 275; p. 195.
Samoset Chocolates Company, Boston, Mass. Candy. Nos. 130,442–6; June 1; v. 275; p. 194.
Samoset Chocolates Company, Boston, Mass. Candy. Nos. 130,433–7; June 1; v. 275; pp. 193–4.
Schutter-Johnson Candy Co., Chicago, Ill. Candies. No. 130,993; June 1; v. 275; p. 197.
Silver & Co., Brooklyn and New York, N. Y. Oil-lamps and parts and accessories thereof. No. 122,449; June 1; v. 275; p. 176.
Sioux Candy Co., Sioux City, Iowa. Candy. No. 130,624; June 1; v. 275; p. 195.
Sita, Mike, Tacoma, Wash. Leather-dressing for cleaning and polishing shoes. No. 116,853; June 1; v. 275; p. 174.
Smith, Lucius A., Buffalo, N. Y. Trusses for inguinal, femoral, &c., hernia. No. 119,870; June 1; v. 275; p. 175.
Soby, John F., New York, N. Y. Writing-ink in powdered form. No. 128,529; June 1; v. 275; p. 185.
Specialty Knit Goods Manufacturing Co., Brooklyn, N. Y. Knitted fabrics of wool. No. 127,451; June 1; v. 275; p. 182.
St. Louis Rubber Cement Co., St. Louis, Mo. Graphite, soapstone, and mica. No. 125,256; June 1; v. 275; p. 179.
Suffolk Brewing Company, Boston, Mass. Cereal malt beverage. No. 127,704; June 1; v. 275; p. 183.
Suffolk Brewing Company, Boston, Mass. Cereal malt beverage. No. 127,786; June 1; v. 275; p. 183.
Taylor, Thos. P., Company, The, Bridgeport, Conn. Garters. No. 127,159; June 1; v. 275; p. 181.
Tel-O-Tone Phonograph Company. (See Western News Company, The, assignor.)
Tiffany & Company, New York, N. Y. Shopping-bags, suitcases, portfolios, purses, &c. No. 128,225; June 1; v. 275; p. 185.
Tiffin Products, Inc., Long Island, N. Y. Candies. No. 124,673; June 1; v. 275; p. 178.
Tiffin Products, Inc., Long Island City, N. Y. Ginger-ale, lemon-soda, cream-soda, &c. No. 124,368; June 1; v. 275; p. 178.
Tilleman, H. George, New York, N. Y. Carbon-papers and ink-ribbons. No. 127,983; June 1; v. 275; p. 184.
Unexcelled Manufacturing Company, New York, N. Y. Fireworks. No. 121,952; June 1; v. 275; p. 175.
United States Electric Manufacturing Corporation, New York, N. Y. Flash-light cases and electric batteries. No. 129,102; June 1; v. 275; p. 187.
United States Graphite Company, The, Saginaw, Mich. Mining-machine lubricant. No. 116,730; June 1; v. 275; p. 174.
United States Macaroni Company, Los Angeles, Calif. Macaronic foods. No. 107,208; June 1; v. 275; p. 167.
Van Dorn Electric Tool Company, Cleveland, Ohio. Electric motors and bases, frames, mountings, &c. No. 129,360; June 1; v. 275; p. 190.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 113,731; June 1; v. 275; p. 173.
Visible Gasoline Filter Company, Chicago, Ill. Gasoline-filters. No. 126,600; June 1; v. 275; p. 180.
Waldes & Co, Inc., Long Island City and New York, N. Y. Metal tape for binding packages. No. 129,481; June 1; v. 275; p. 190.
Wanderer-Werke, vorm. Winklhofer-Jaenicke, Aktiengesellschaft, Schönau, near Chemnitz, Germany. Eraser-stencils for typewriters, manuscript and typewriter-copy holders, &c. No. 69,754; June 1; v. 275; p. 167.
Ward Brothers Company Inc., Rochester, N. Y. Baked goods—namely, bread. No. 127,492; June 1; v. 275; p. 183.
Ware Coated Paper Company, Ware, Mass. Proofing-paper. No. 131,002; June 1; v. 275; p. 197.
Waterman, Mabel, New Rochelle, N. Y. Toy animals. No. 130,186; June 1; v. 275; p. 192.
Wellsch, W. T., & Co., Inc., San Francisco, Calif. Rice. Nos. 110,973–111,030; June 1; v. 275; pp. 168–72.
Welsher, Samuel L., New York, N. Y. Soap flakes. No. 125,447; June 1; v. 275; p. 179.
Western News Company, The, assignor to The Tel-O-Tone Phonograph Company, Chicago, Ill. Phonographs and phonograph-cabinets. No. 121,550; June 1; v. 275; p. 175.
Whitman, Harry M., Canton, Pa. Unitary electric-lighting plants and parts thereof. No. 130,123; June 1; v. 275; p. 192.
Wilkin & Adler, New York, N. Y. Jersey knit cloth in the piece. No. 129,768; June 1; v. 275; p. 191.
Wright, James R., Trenton, Mo. Additional air-preheaters for internal-combustion engines. No. 131,139; June 1; v. 275; p. 198.
Young, Chas. W., & Co., Philadelphia, Pa. Soap flakes. No. 123,047; June 1; v. 275; p. 176.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Account register, Credit-. H. A. Martin. No. 1,341,922; June 1; v. 275; p. 61.
Acid, Making sulfuric. E. L. Larison. No. 1,342,024; June 1; v. 275; p. 81.
Advertising device. G. H. Trulock. No. 1,341,950; June 1; v. 275; p. 66.
Aeronautic landing device. F. M. McDonald. No. 1,342,221; June 1; v. 275; p. 120.
Aeroplane. J. D. Denson. No. 1,341,886; June 1; v. 275; p. 54.
Aeroplane-wings, Variable-camber rib for. H. F. Parker. No. 1,341,758; June 1; v. 275; p. 29.
Aeroplanes, Starting and landing machine for. J. H. Akin. No. 1,342,145; June 1; v. 275; p. 105.
Agricultural implement. J. B. Mackey. No. 1,342,125; June 1; v. 275; p. 101.
Agricultural implement. F. Sherwin. No. 1,341,724; June 1; v. 275; p. 22.
Air-cleaning ventilator. A. C. Bennett. No. 1,342,152; June 1; v. 275; p. 106.
Air-inlet device. V. H. Van Sant. No. 1,342,193; June 1; v. 275; p. 114.
Air moistening and heating system. R. W. Hardie. No. 1,342,214; June 1; v. 275; p. 118.
Aircraft, Construction of. J. J. M. A. E. Schneider. No. 1,342,353; June 1; v. 275; p. 144.
Alarm: *See*—
Burglar-alarm.
Alkali package. J. Armstrong. No. 1,342,148; June 1; v. 275; p. 105.
Alloy, Corrosion-resisting ferrous. S. McClure. No. 1,341,992; June 1; v. 275; p. 74.
Alloy, Metal. C. B. Backer. No. 1,341,774; June 1; v. 275; p. 32.
Amusement device. G. Nakamura. No. 1,342,223; June 1; v. 275; p. 120.
Angle-indicator. M. Luoma. No. 1,342,335; June 1; v. 275; p. 141.
Antisubmarine device. P. Petrusavage. No. 1,342,064; June 1; v. 275; p. 88.
Antiskid attachment. W. J. Duvall. No. 1,341,789; June 1; v. 275; p. 35.
Apparel. S. N. Leopard. No. 1,341,716; June 1; v. 275; p. 20.
Auto-rim. S. Stephens. No. 1,341,942; June 1; v. 275; p. 65.
Auto-signal. J. O'Donnell, Jr. No. 1,342,181; June 1; v. 275; p. 112.
Auto signal-arm. C. Townsend. No. 1,342,007; June 1; v. 275; p. 77.
Auto steering-lock. L. F. Cosby. No. 1,342,276; June 1; v. 275; p. 130.
Automobile-bumper. F. Kammitter. No. 1,342,290; June 1; v. 275; p. 133.
Automobile-bumper. W. P. Limacher. No. 1,341,917; June 1; v. 275; p. 59.
Automobile-bumper. P. D. Read. No. 1,341,393; June 1; v. 275; p. 151.
Automobile-control device. E. A. and C. R. Page. No. 1,342,060; June 1; v. 275; p. 88.
Automobile-controlling pedals, Attachment for. J. C. Carmody. No. 1,342,372; June 1; v. 275; p. 148.
Automobile conversion, Device for. H. R. Harrison. No. 1,342,142; June 1; v. 275; p. 104.
Automobile door-handle. W. Miller. No. 1,342,058; June 1; v. 275; p. 87.
Automobile, Extensible. J. L. Ware. No. 1,342,139; June 1; v. 275; p. 103.
Automobile-lock. J. H. Bast. No. 1,342,151; June 1; v. 275; p. 106.
Automobile-lock. W. B. Nimmo and C. S. Swain. No. 1,341,925; June 1; v. 275; p. 61.
Automobile sanding device. A. P. Weise. No. 1,342,316; June 1; v. 275; p. 137.
Automobile seat extension. T. F. Snyder. No. 1,342,235; June 1; v. 275; p. 123.
Automobile signal device. J. Klipper. No. 1,342,049; June 1; v. 275; p. 85.
Automobile theft-indicating device. E. S. Grace. No. 1,342,044; June 1; v. 275; p. 85.
Automobile-top. J. Vetter. No. 1,341,687; June 1; v. 275; p. 14.
Automobiles, Combined water and air pump for. J. W. B. Ladd and R. E. Rich. No. 1,341,915; June 1; v. 275; p. 59.
Automobiles, Electrical signal system for. H. L. Cornell. No. 1,341,735; June 1; v. 275; p. 24.
Automobiles, Windshield for. T. B. Nisbet. (Reissue.) No. 14,872; June 1; v. 275; p. 156.
Ax sheath or carrying case. A. Rosenquist. No. 1,342,395; June 1; v. 275; p. 152.
Bag: *See*—
Water-bag.
Bag-holder. F. M. Neff and W. B. Runner. No. 1,342,348; June 1; v. 275; p. 143.
Baling-machines, Length-indicator for. R. M. Mowry. No. 1,342,391; June 1; v. 275; p. 151.
Balls, Method of and means for heating. A. G. E. Hultgren. No. 1,342,171; June 1; v. 275; p. 110.
Banjo-support. H. M. Cox. No. 1,342,202; June 1; v. 275; p. 116.
Bar: *See*—
Furnace-bar. Jack-bar.
Furnace floor-bar.
Baseball-game apparatus. J. D. Bourne. No. 1,341,628; June 1; v. 275; p. 3.
Basin-plug wrench. M. Mallove. No. 1,342,025; June 1; v. 275; p. 81.
Battery: *See*—
Electric battery.
Battery container, Storage-. J. M. Ahlgren. No. 1,341,871; June 1; v. 275; p. 51.
Battery-plate. O. P. Hoffman. No. 1,341,713; June 1; v. 275; p. 19.
Bayonet and wire-cutter, Combination. J. Hmirak. No. 1,342,382; June 1; v. 275; p. 149.
Bearing element and manufacturing same. R. J. Shoemaker. No. 1,341,938; June 1; v. 275; p. 64.
Bearing, Roller-. O. G. Arnot. No. 1,341,873; June 1; v. 275; p. 51.
Bearing, Side. C. E. Dath. No. 1,342,101; June 1; v. 275; p. 96.
Bearing, Thrust-. H. A. S. Howarth. No. 1,342,384; June 1; v. 275; p. 150.
Bearings, Attachment for. J. A. Anderson. No. 1,342,319; June 1; v. 275; p. 138.
Bed attachment. A. Schoonmaker. No. 1,342,354; June 1; v. 275; p. 144.
Bed, Spring-. J. H. Hower. No. 1,341,714; June 1; v. 275; p. 19.
Beet-topping machine. W. L. and F. L. Johnston. No. 1,341,909; June 1; v. 275; p. 58.
Belt key-holder. A. A. Lutz. No. 1,341,811; June 1; v. 275; p. 39.
Belting. J. D. Coughlin. No. 1,341,973; June 1; v. 275; p. 71.
Bending-machines, Gear-clutch for. P. B. Wallace and F. H. Fox. No. 1,342,363; June 1; v. 275; p. 146.
Blind, Spring-roller. H. E. Fox. No. 1,342,017; June 1; v. 275; p. 79.
Block: *See*—
Furnace rail-block.
Block-resurfacing mechanism. R. C. Simmons. No. 1,341,765; June 1; v. 275; p. 30.
Board: *See*—
Plaster-board.
Boiler: *See*—
Gas-heated boiler.
Boll-weevil moths, Device for destroying. D. D. Dalley. No. 1,341,706; June 1; v. 275; p. 18.
Bolt: *See*—
Expansion-bolt.
Bomb-thrower. T. E. Spencer. No. 1,342,357; June 1; v. 275; p. 145.
Book or pad. S. E. Brick. No. 1,341,782; June 1; v. 275; p. 34.
Bookcase. J. F. Arnold. No. 1,342,083; June 1; v. 275; p. 92.
Bottle, Milk-. C. R. Chenery. No. 1,342,013; June 1; v. 275; p. 78.
Bottles, Drinking attachment for. E. L. Stewart. No. 1,341,826; June 1; v. 275; p. 42.
Box: *See*—
Journal-box. Powder-box.

Boxes, Combination-dies for punching, creasing, and finishing the heads of solid-end paper. H. B. Walter. No. 1,342,239; June 1; v. 275; p. 123.
Bracket: *See*—
Bumper-bracket.
Curtain-rod bracket.
Shade and curtain-pole bracket.
Brake: *See*—
Phonograph-brake.
Wagon-brake.
Brake. C. H. Satterlee. No. 1,342,352; June 1; v. 275; p. 144.
Brake-lining. F. J. Gleason. No. 1,342,043; June 1; v. 275; p. 84.
Brake mechanism. G. S. Ackley. No. 1,341,830; June 1; v. 275; p. 43.
Bread-knife. S. F. Horvath. No. 1,342,383; June 1; v. 275; p. 150.
Brick. Blown-glass vacuum-. A. E. D'Harlingue. No. 1,342,404; June 1; v. 275; p. 154.
Bricks. Apparatus for making. H. W. B. Graham. No. 1,341,798; June 1; v. 275; p. 37.
Bridle. J. C. Jardine, and J. Dickie. No. 1,341,715; June 1; v. 275; p. 26.
Buckle, Belt-. R. C. Kadow. No. 1,341,648; June 1; v. 275; p. 7.
Building. E. G. Perrot. No. 1,342,062; June 1; v. 275; p. 88.
Building construction. J. E. Jennings. No. 1,342,021; June 1; v. 275; p. 80.
Bumper-bracket. G. F. Discher. No. 1,342,374; June 1; v. 275; p. 148.
Burglar-alarm. A. A. Terstyansky. No. 1,342,104; June 1; v. 275; p. 96.
Burner: *See*—
Hydrocarbon-burner.
Oil-burner.
Portable burner.
Burner. J. G. Placette. No. 1,342,226; June 1; v. 275; p. 121.
Bushing-forming machine. O. W. McKnight. No. 1,342,053; June 1; v. 275; p. 86.
Button. C. W. G. Allender. No. 1,341,771; June 1; v. 275; p. 32.
Button and necktie-slide, Collar-. A. J. Edwards. No. 1,342,102; June 1; v. 275; p. 96.
Button-clasp. E. B. Fink. No. 1,342,161; June 1; v. 275; p. 108.
Button, Collar-. C. Stern. No. 1,342,063; June 1; v. 275; p. 76.
Cabinet. O. A. Nelson. No. 1,341,994; June 1; v. 275; p. 74.
Cabinet, Heat-resisting. R. H. Dick and C. F. Wolters. No. 1,342,204; June 1; v. 275; p. 116.
Calculator. H. A. Wrenn. No. 1,341,962; June 1; v. 275; p. 68.
Camera. C. M. March and C. L. Tidd. No. 1,341,718; June 1; v. 275; p. 20.
Cameras, Autographic attachment for. M. B. Boyce. No. 1,342,155; June 1; v. 275; p. 106.
Can-spout. H. H. Shaw. No. 1,342,299; June 1; v. 275; p. 134.
Car. W. F. Batho. No. 1,342,085; June 1; v. 275; p. 93.
Car. A. Campbell. No. 1,342,089; June 1; v. 275; p. 93.
Car. A. Campbell. No. 1,342,095; June 1; v. 275; p. 95.
Car and unicycle and coupling means therefor, Combination railway-. S. N. Stewart. No. 1,342,137; June 1; v. 275; p. 103.
Car-door-operating machine. A. Campbell. No. 1,342,093; June 1; v. 275; p. 94.
Car, Grain-. A. Campbell. No. 1,342,094; June 1; v. 275; p. 94.
Cars, Means for discharging grain and similar materials from. A. Campbell. No. 1,342,092; June 1; v. 275; p. 94.
Cars, Means for discharging materials from railway-. A. Campbell. No. 1,342,088; June 1; v. 275; p. 93.
Cars, Means for discharging materials from railway-. A. Campbell. No. 1,342,091; June 1; v. 275; p. 94.
Cars, Temporary track for mine-. L. M. Foreman. No. 1,342,281; June 1; v. 275; p. 131.
Cars, Wrecking, poling, wiring, lifting and truck carrying iron for railway-. U. S. Drayer. No. 1,341,787; June 1; v. 275; p. 35.
Carbureter. V. E. Haas. No. 1,342,107; June 1; v. 275; p. 97.
Carbureter control. F. Ross. No. 1,341,762; June 1; v. 275; p. 29.
Card-distributing device. , U. B. White and M. H. Wetzel. No. 1,341,695; June 1; v. 275; p. 16.
Carton, Dispensing and displaying. R. H. Fitz Gerald. No. 1,341,893; June 1; v. 275; p. 55.
Carton opening and feeding mechanism. S. R. Howard. No. 1,342,047; June 1; v. 275; p. 85.
Case: *See*—
Vanity-case.
Casket. L. P. Cook and J. D. Sims. No. 1,342,324; June 1; v. 275; p. 139.
Caster, Swivel-. S. W. Chesnutt. No. 1,341,630; June 1; v. 275; p. 3.
Casting hollow bars or tubes, Method of and apparatus for. G. Mellen. No. 1,342,127; June 1; v. 275; p. 101.
Casting-machine. R. J. Powell. No. 1,341,670; June 1; v. 275; p. 11.
Cattle-guard. A. Cruickshank. No. 1,342,014; June 1; v. 275; p. 79.
Cellulose or compounds of cellulose, Manufacturing tubular products of. L. Hesse. No. 1,341,745; June 1; v. 275; p. 26.
Cement-block mold. F. Creason. No. 1,342,373; June 1; v. 275; p. 148.
Cement, Combined. K. L. Torno. No. 1,342,360; June 1; v. 275; p. 146.
Centrifugal machines, Driving electric. E. D. Macklntosh. No. 1,342,405; June 1; v. 275; p. 154.
Chain, Antiskid-. F. A. Bower. No. 1,342,086; June 1; v. 275; p. 93.
Chair: *See*—
Collapsible chair.
Rail-chair.
Change-speed mechanism. W. T. Walker. No. 1,342,195; June 1; v. 275; p. 115.
Check-holder. J. T. Olive. No. 1,341,720; June 1; v. 275; p. 21.
Chimney. J. L. Freeman. No. 1,342,329; June 1; v. 275; p. 140.
Cigar-lighters, Switch for. C. F. Cuno. No. 1,342,015; June 1; v. 275; p. 79.
Cigarette and vanity case, Combined. M. A. Miller. No. 1,342,178; June 1; v. 275; p. 111.
Cigarette-papers, Case for holding. J. W. Davis. No. 1,341,974; June 1; v. 275; p. 71.
Cigarettes and like articles, Box for. H. H. Lewis. No. 1,341,857; June 1; v. 275; p. 48.
Cinematograph-shutter. A. Van Wormer. No. 1,342,076; June 1; v. 275; p. 91.
Circuit-breaker. F. W. Roller. No. 1,341,678; June 1; v. 275; p. 13.
Circuit-closer, Thermal. C. E. Wiren. No. 1,342,317; June 1; v. 275; p. 137.
Circuit-interrupter. L. W. Chubb. No. 1,341,631; June 1; v. 275; p. 4.
Clamp: *See*—
Rail-clamp.
Saw-filing clamp.
Wire-fence clamp.
Clamp. A. Waelty. No. 1,342,362; June 1; v. 275; p. 146.
Clamp. W. B. Wigle. No. 1,342,141; June 1; v. 275; p. 104.
Clarinet-holder. J. E. Smith. No. 1,342,136; June 1; v. 275; p. 103.
Clasp: *See*—
Button-clasp.
Clasp. C. G. Hultman and H. Wachenheimer. No. 1,342,048; June 1; v. 275; p. 85.
Cloth-cutter. N. J. Goldfarb and B. Sacks. No. 1,342,210; June 1; v. 275; p. 118.
Cloth-cutting machines, Grinder for rotary. M. Zawistowski. No. 1,341,699; June 1; v. 275; p. 17.
Clothes-rack. J. D. Barber. No. 1,342,200; June 1; v. 275; p. 116.
Clothes-wringers, Material-actuated release for. E. B. Stocking. No. 1,342,005; June 1; v. 275; p. 76.
Clothes-wringers, Spring-actuated release for. E. B. Stocking. No. 1,342,004; June 1; v. 275; p. 76.
Clutch. J. F. Gorman. No. 1,341,796; June 1; v. 275; p. 36.
Clutch. G. R. Marsico. No. 1,341,993; June 1; v. 275; p. 74.
Clutch, Centrifugally-actuated. C. E. L. Dapprich. No. 1,341,635; June 1; v. 275; p. 4.
Clutch, Electrically-operated friction. M. Walker. No. 1,342,270; June 1; v. 275; p. 129.
Clutch-facing. D. Reponv. No. 1,341,673; June 1; v. 275; p. 12.
Clutch mechanism. F. G. Hughes. No. 1,341,983; June 1; v. 275; p. 72.
Coal and other cargo, Skip for hauling. D. L. Gibson. No. 1,342,018; June 1; v. 275; p. 79.
Coat and hat hanger, Combined. W. R. Murtha. No. 1,342,346; June 1; v. 275; p. 143.
Coat-hanger. J. J. Kottschalk. No. 1,342,166; June 1; v. 275; p. 109.
Coating, Sound-absorbing. C. H. Bryce. No. 1,341,704; June 1; v. 275; p. 18.
Coffee. Apparatus for treating. A. Robert. No. 1,341,676; June 1; v. 275; p. 12.
Coin-dispensing device. O. Jaeger. No. 1,341,749; June 1; v. 275; p. 27.
Collapsible chair. C. H. Walmsley. No. 1,341,689; June 1; v. 275; p. 15.
Collar-support. L. Grabiec. No. 1,342,106; June 1; v. 275; p. 97.
Comb. A. Nonnenmann. No. 1,342,224; June 1; v. 275; p. 121.
Composition of matter and producing same. L. E. Barton. No. 1,342,084; June 1; v. 275; p. 92.
Condenser installation. R. N. Ehrhart. No. 1,342,103; June 1; v. 275; p. 96.
Conduit, Conveyer-. L. A. Griffin. No. 1,342,167; June 1; v. 275; p. 109.
Container. L. J. Schumaker. No. 1,342,069; June 1; v. 275; p. 89.
Container. J. M. Wilson. No. 1,342, 243; June 1; v. 275; p. 124.
Container with adjustable false bottom. T. C. Potts and A. R. Mann. No. 1,341,927; June 1; v. 275; p. 62.
Control system. F. H. Miller. No. 1,341,657; June 1; v. 275; p. 8.
Control system. L. G. Riley. No. 1,341,675; June 1; v. 275; p. 12.
Controlling device. F. F. Main. No. 1,342,338; June 1; v. 275; p. 141.
Cooker, Automatic. J. H. Jacobs. No. 1,341,748; June 1; v. 275; p. 27.

Cooking apparatus. L. Meyer and R. Schiff. No. 1,341,960; June 1; v. 275; p. 68.
Cooking utensil. O. R. Berger. No. 1,341,731; June 1; v. 275; p. 23.
Coop, Chicken-. A. G. Campbell. No. 1,342,371; June 1; v. 275; p. 148.
Copper from its ores, Recovering. C. J. A. Dalziel. No. 1,341,786; June 1; v. 275; p. 34.
Copra-drying apparatus. J. D. McCord. No. 1,341,655; June 1; v. 275; p. 8.
Corn-planter and fertilizer-distributer. M. Jennings. No. 1,342,333; June 1; v. 275; p. 140.
Cotton-gins, Mote-board for. J. L. Wooldridge. (Reissue.) No. 14,874; June 1; v. 275; p. 157.
Coupling: *See*—
Flexible coupling.
Tractor-coupling.
Crane, Freight loading and unloading. J. Plucienskl. No. 1,341,996; June 1; v. 275; p. 75.
Crate, Sanitary bottle-. O. E. Watson. No. 1,341,869; June 1; v. 275; p. 50.
Cuffs, Flexible sheet form for soft. J. A. Smith. No. 1,342,032; June 1; v. 275; p. 82.
Cultivator. R. L. Guthrie. No. 1,342,285; June 1; v. 275; p. 132.
Cultivator. H. C. Smith. No. 1,342,302; June 1; v. 275; p. 135.
Cup: *See*—
Drinking-cup.
Curtain-rod bracket, Adjustable. R. E. Fisher. No. 1,341,742; June 1; v. 275; p. 26.
Curtain-stretcher. S. Solomon. No. 1,342,396; June 1; v. 275; p. 152.
Cutter: *See*—
Cloth-cutter.
Fruit-cutter.
Weed-cutter.
Cutter-head. F. P. Miller. No. 1,342,055; June 1; v. 275; p. 87.
Cutting implement, Hand-controlled rotary. E. H. Madère. No. 1,342,294; June 1; v. 275; p. 133.
Cutting-machines, Cutting attachment for. J. P. Wels. No. 1,342,008; June 1; v. 275; p. 77.
Cutting tapered elliptical holes, Apparatus for. F. E. B. Fripp. No. 1,342,261; June 1; v. 275; p. 127.
Damper. W. V. Coate. No. 1,341,881; June 1; v. 275; p. 52.
Dead-center device. W. L. Harris. No. 1,341,849; June 1; v. 275; p. 47.
Demonstrating device, Refractional. A. Angel. No. 1,341,773; June 1; v. 275; p. 32.
Dental-cement-injecting tube. H. L. Cruttenden. No. 1,341,736; June 1; v. 275; p. 24.
Dental educational device. R. O. Brittain. No. 1,342,156; June 1; v. 275; p. 107.
Dispenser. S. Gagnon. No. 1,341,711; June 1; v. 275; p. 19.
Display-holder. L. C. Quackenboss. No. 1,341,822; June 1; v. 275; p. 41.
Doll. W. D. Kemp. No. 1,341,985; June 1; v. 275; p. 73.
Door, Elevator-shaft. A. Rush. No. 1,341,863; June 1; v. 275; p. 49.
Door, Elevator-shaft. A. Rush. No. 1,341,864; June 1; v. 275; p. 49.
Door-operating mechanism. A. F. Bowers. No. 1,341,775; June 1; v. 275; p. 32.
Door-operating mechanism. A. Campbell. No. 1,342,090; June 1; v. 275; p. 94.
Door, Sheet-metal. A. S. Barrows. No. 1,342,400; June 1; v. 275; p. 153.
Doorknob. R. A. Breul. No. 1,341,969; June 1; v. 275; p. 70.
Draft-detaching device. J. Kuncus. No. 1,342,119; June 1; v. 275; p. 99.
Draft-regulator. J. O. Anderson. No. 1,341,872; June 1; v. 275; p. 51.
Drapery-holder. H. L. Sweney. No. 1,341,684; June 1; v. 275; p. 14.
Drawing-protractor. E. L. Micheau. No. 1,342,129; June 1; v. 275; p. 102.
Drawing-table. E. R. Koechlin. No. 1,341,988; June 1; v. 275; p. 73.
Drill and wire gage. R. Ichiba. No. 1,342,288; June 1; v. 275; p. 132.
Drill-press table and vise, Combination. G. H. Cocks. No. 1,341,841; June 1; v. 275; p. 45.
Drills, machine for making twist-. R. H. Deschaner. No. 1,341,636; June 1; v. 275; p. 4.
Drilling-machine, Rotary. L. J. Black. No. 1,341,702; June 1; v. 275; p. 18.
Drinking-cup. B. B. Avery. No. 1,341,831; June 1; v. 275; p. 43.
Drinking-cup and manufacturing such cups, Sanitary. B. B. Avery and A. Nelson. No. 1,341,835; June 1; v. 275; p. 44.
Drinking-cups, Former for manufacturing sanitary. A. Nelson and B. B. Avery. No. 1,341,833; June 1; v. 275; p. 43.
Drinking-cups, Machine for manufacturing and vending sanitary. A. Nelson and B. B. Avery. No. 1,341,836; June 1; v. 275; p. 44.
Drinking-cups, Making. A. Nelson and B. B. Avery. No. 1,341,834; June 1; v. 275; p. 44.
Drinking-cups, Manufacturing sanitary. B. B. Avery and A. Nelson. No. 1,341,832; June 1; v. 275; p. 43.
Dry cell. W. B. Schulte. No. 1,342,001; June 1; v. 275; p. 76.
Drying kiln. C. A. Cutler. No. 1,341,884; June 1; v. 275; p. 53.
Drying-machines, Bearing for the cylinders of. W. Mycock. No. 1,342,131; June 1; v. 275; p. 102.
Dyestuffs capable of being diazotized and making same. A. Schedler. No. 1,342,134; June 1; v. 275; p. 103.
Easel. J. Stranders. No. 1,342,313; June 1; v. 275; p. 137.
Electric battery. O. E. Ruhoff. No. 1,342,068; June 1; v. 275; p. 89.
Electric-current-regulating plugs and sockets, Switch and contact mechanism for. A. Pipini. No. 1,342,061; June 1; v. 275; p. 88.
Electric fixtures, Making installation-loops for. J. Shoner. No. 1,342,071; June 1; v. 275; p. 90.
Electric machines, Cooling arrangement for dynamo-. P. A. H. Mossay and H. C. E. Jacoby. No. 1,342,179; June 1; v. 275; p. 111.
Electric switch. D. G. Roos. No. 1,342,229; June 1; v. 275; p. 121.
Electrical coil. T. P. Giblin. No. 1,342,209; June 1; v. 275; p. 117.
Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,310; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,311; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,312; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,304; June 1; v. 275; p. 135.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,305; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,306; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,307; June 1; v. 275; p. 136.
Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,309; June 1; v. 275; p. 136.
Electrochemical analytical control. P. E. Edelman. No. 1,341,790; June 1; v. 275; p. 35.
Electrode for searchlights and making same. E. A. Sperry. No. 1,342,398; June 1; v. 275; p. 153.
Electrode for soldering and depositing metals by the electric arc. E. H. Jones. No. 1,341,647; June 1; v. 275; p. 6.
Electrolytic cell. J. Gerstle. No. 1,342,378; June 1; v. 275; p. 149.
Electrolytic cell. P. McDorman. No. 1,342,336; June 1; v. 275; p. 141.
Electromagnetic-wave navigational system. J. Erskine-Murray and J. Robinson. No. 1,342,257; June 1; v. 275; p. 126.
Engine: *See*—
Internal-combustion engine.
Two-cycle engine.
Engine-support. N. E. Hildreth. No. 1,341,902; June 1; v. 275; p. 57.
Engines, Crank-shaft connection for. C. B. and J. T. Dodge. No. 1,341,709; June 1; v. 275; p. 19.
Engines, Cylinder for internal-combustion. H. A. Hall. (Reissue.) No. 14,869; June 1; v. 275; p. 156.
Engines, Electric starter for internal-combustion. J. R. Millward. No. 1,341,659; June 1; v. 275; p. 9.
Engines, Electric starter for internal-combustion. J. R. Millward. No. 1,341,660; June 1; v. 275; p. 9.
Engines, Exhaust-silencer for internal-combustion. W. H. Martin. No. 1,342,340; June 1; v. 275; p. 142.
Engines, Fuel-injection valve for oil-. K. O. Keller. No. 1,341,911; June 1; v. 275; p. 58.
Engines, Lubricating system for internal-combustion. H. H. Blache. No. 1,342,273; June 1; v. 275; p. 130.
Engines, Lubricating system for steam-. R. Watres. No. 1,342,077; June 1; v. 275; p. 91.
Engines, Starter for internal-combustion. J. R. Millward. No. 1,341,658; June 1; v. 275; p. 9.
Envelops, Making window-. W. Laugguth. No. 1,341,807; June 1; v. 275; p. 39.
Etching-machine. W. S. Eaton. No. 1,341,739; June 1; v. 275; p. 25.
Expansion-bolt. W. C. Beckwith. No. 1,342,201; June 1; v. 275; p. 116.
Expansion connection. F. Sargent. No. 1,342,133; June 1; v. 275; p. 102.
Eyeleting-machine. F. A. Rummey. No. 1,341,763; June 1; v. 275; p. 30.
Fabric, Method and product for dyeing textile. J. W. Fries. No. 1,341,637; June 1; v. 275; p. 5.
Face-plate for flush receptacles. G. B. Thomas. No. 1,342,237; June 1; v. 275; p. 123.
Fan, Centrifugal. A. A. Criqui. No. 1,341,882; June 1; v. 275; p. 53.
Fan, propeller. C. M. Lee. No. 1,341,653; June 1; v. 275; p. 8.
Farm-gate. T. Huston. No. 1,341,905; June 1; v. 275; p. 57.
Faucet attachment. M. I. Schamberg. No. 1,341,200; June 1; v. 275; p. 75.
Faucet, Measuring-. C. T. Joslin. No. 1,342,173; June 1; v. 275; p. 110.

Feeder, Automatic-supply hog-. R. O. Dohm. No. 1,341,887; June 1; v. 275; p. 54.
Feeder, Disk-. F. D. Stowe. No. 1,342,189; June 1; v. 275; p. 113.
Feeder, Pulverized-fuel. L. S. Schmidt. No. 1,342,135; June 1; v. 275; p. 103.
Fender. F. M. McDonald. No. 1,342,402; June 1; v. 275; p. 153.
Ferrochrome, Production of low-carbon. H. C. Sicard. No. 1,341,939; June 1; v. 275; p. 64.
Fertilizer-distributer. E. G. Perry. No. 1,342,296; June 1; v. 275; p. 134.
Fish-stringer. A. N. Putney. No. 1,341,722; June 1; v. 275; p. 21.
Flash-light. F. D. Boulanger. No. 1,342,322; June 1; v. 275; p. 138.
Flexible coupting. J. C. Sheler and R. B. Austin. No. 1,342,300; June 1; v. 275; p. 135.
Flotation-machine. T. A. Janney. No. 1,342,115; June 1; v. 275; p. 99.
Flute, Mouth-. F. A. Morley. No. 1,341,860; June 1; v. 275; p. 49.
Flying-machines, Landing-gear for. M. F. Stupar. No. 1,342,138; June 1; v. 275; p. 103.
Form, Milliner's steaming-. M. L. Argo. No. 1,342,147; June 1; v. 275; p. 105.
Fountain: *See*—
Hog-watering fountain.
Frame: *See*—
Hat-frame. Picture-frame.
Wagon-frame.
Fruit-cutter. D. H. Elmer. No. 1,312,207; June 1; v. 275; p. 117.
Fruit-jars, Immerser for. R. J. Beler. No. 1,342,321; June 1; v. 275; p. 138.
Fuel-economizer. J. P. McMahon. No. 1,342,337; June 1; v. 275; p. 141.
Furnace: *See*—
Glass-annealing furnace. Heating-furnace.
Hardening and annealing furnace.
Furnace and extract-boiler, Wood-ash. E. W. Eisenhauer, Jr., L. F. Flormann, and E. C. A. Woltmann. No. 1,341,889; June 1; v. 275; p. 54.
Furnace construction. J. W. Gates. No. 1,341,977; June 1; v. 275; p. 71.
Furnace construction. J. W. Gates. No. 1,341,896; June 1; v. 275; p. 55.
Furnace floor-bar. R. C. Drinker. No. 1,342,041; June 1; v. 275; p. 84.
Furnace-joint. J. Farris. No. 1,342,258; June 1; v. 275; p. 127.
Furnace rail-block. G. J. Rennie. No. 1,341,928; June 1; v. 275; p. 62.
Furnace-wall. D. S. Jacobus. No. 1,341,645; June 1; v. 275; p. 6.
Furnaces, Draft-damper mechanism for. H. Vick. No. 1,341,868; June 1; v. 275; p. 50.
Furniture, Center-slot steel. J. A. Rutherford. No. 1,342,030; June 1; v. 275; p. 82.
Furniture, Wheel-bearing for. R. J. Ehlers. No. 1,342,279; June 1; v. 275; p. 131.
Fuse, Detonating-. W. C. Cope. No. 1,341,705; June 1; v. 275; p. 18.
Fuse, Refillable electric. W. F. Muller. No. 1,341,662; June 1; v. 275; p. 9.
Gage: *See*—
Drill and wire gage. Sheet-gage.
Gage. C. M. Gearing. No. 1,341,978; June 1; v. 275; p. 71.
Garment-hanger. F. P. Johnson. No. 1,342,265; June 1; v. 275; p. 128.
Garment-hanger. R. H. Varicle. No. 1,341,827; June 1; v. 275; p. 42.
Garment, Inflatable. K. Michalovsky. No. 1,342,054; June 1; v. 275; p. 86.
Gas-conduits, Apparatus for automatically opening and closing. G. Dalén. No. 1,342,160; June 1; v. 275; p. 108.
Gas-heated boiler. T. M. Mayer. No. 1,342,342; June 1; v. 275; p. 142.
Gas-heater. L. Lebau. No. 1,342,121; June 1; v. 275; p. 100.
Gate: *See*—
Farm-gate. Sag-gate.
Gate-hanger. W. H. Raley. No. 1,342,227; June 1; v. 275; p. 121.
Gear, Bevel-. R. E. Talley. No. 1,341,685; June 1; v. 275; p. 14.
Gearing. A. H. Leipert and A. G. Herreshoff. No. 1,342,175; June 1; v. 275; p. 111.
Gearing, Motor-driven. W. J. Georgeson. No. 1,342,262; June 1; v. 275; p. 127.
Gears, Machine for and method of cutting. H. C. Walter. No. 1,341,953; June 1; v. 275; p. 67.
Glass and making same, Reinforced. L. F. Mascart. No. 1,342,267; June 1; v. 275; p. 129.
Glass-annealing furnace. M. A. Smith. No. 1,342,233; June 1; v. 275; p. 122.
Glass-drawing apparatus. J. H. Allan. No. 1,342,080; June 1; v. 275; p. 91.
Glass from furnaces, Removing. E. T. Ferngren. No. 1,342,042; June 1; v. 275; p. 84.
Glass-grinding machinery, Sand-grading apparatus for. J. Wills. No. 1,342,038; June 1; v. 275; p. 83.
Glass, Laminated. M. W. Gleason. No. 1,342,282; June 1; v. 275; p. 131.
Glass-machines, Pressing-plunger mechanism for. W. J. Miller. No. 1,342,056; June 1; v. 275; p. 87.
Glass, Manufacture of reinforced. L. F. Mascart. No. 1,342,268; June 1; v. 275; p. 129.
Glazier's-point setter. J. R. Holy. No. 1,342,110; June 1; v. 275; p. 98.
Governor, Proportional. J. T. Wilkin. No. 1,341,696; June 1; v. 275; p. 16.
Grain-separator. N. G. Ek. No. 1,341,791; June 1; v. 275; p. 35.
Grain-sieve. N. G. Ek. No. 1,341,792; June 1; v. 275; p. 36.
Grate for automatic stoking, Rotating. J. Moe. No. 1,342,026; June 1; v. 275; p. 81.
Grease-cup filler. F. K. Lawrence. No. 1,341,652; June 1; v. 275; p. 7.
Grinding machine. O. Onsrud. No. 1,341,818; June 1; v. 275; p. 40.
Grinding machines, Generating formers for contour-. B. M. W. Hanson. No. 1,341,800; June 1; v. 275; p. 37.
Gun, Machine-. O. O. Storle. No. 1,342,358; June 1; v. 275; p. 145.
Gun positions, Locating enemy-. R. A. Fessenden. No. 1,341,795; June 1; v. 275; p. 36.
Hair-clipper. E. S. Carlsen. No. 1,342,096; June 1; v. 275; p. 95.
Hair-clipper. E. S. Carlsen. No. 1,342,097; June 1; v. 275; p. 95.
Hairpin. I. Hayman. No. 1,341,980; June 1; v. 275; p. 72.
Handbag-handle. N. Sloane. No. 1,342,301; June 1; v. 275; p. 135.
Handcuff. P. Kruger. No. 1,342,334; June 1; v. 275; p. 141.
Handle: *See*—
Automobile-door handle. Handbag-handle.
Hanger: *See*—
Coat and hat hanger. Gate-hanger.
Coat-hanger. Trolley-hanger.
Garment-hanger.
Hardening and annealing furnace. A. M. Moore. No. 1,341,661; June 1; v. 275; p. 9.
Hardening bodies having the shape of solids of revolution, Method of and means for. A. G. E. Hultgren. No. 1,342,112; June 1; v. 275; p. 98.
Harrow-operating mechanism, Tractor-. A. W. Reynolds. No. 1,341,824; June 1; v. 275; p. 42.
Hasp, Door-. P. Veith. No. 1,342,361; June 1; v. 275; p. 146.
Hat. C. A. Peters. No. 1,342,132; June 1; v. 275; p. 102.
Hat-frame. R. W. Rosemire. No. 1,341,679; June 1; v. 275; p. 13.
Hatpin-attachment. J. B. Maserang. No. 1,341,858; June 1; v. 275; p. 48.
Hay-carriage. J. G. Mayer. No. 1,342,341; June 1; v. 275; p. 142.
Hay rake and racker. F. Lake. No. 1,342,293; June 1; v. 275; p. 133.
Headlight. L. W. Swope. No. 1,341,947; June 1; v. 275; p. 66.
Headlights, Circuit-controlling switch for. D. H. Ross. No. 1,341,932; June 1; v. 275; p. 63.
Heater: *See*—
Gas-heater. Vehicle-heater.
Heat-regulator, Thermostatic. S. Lippert. No. 1,342,052; June 1; v. 275; p. 86.
Heating apparatus. T. C. Sebring. No. 1,341,723; June 1; v. 275; p. 21.
Heating device. A. M. Duttweiler. No. 1,341,788; June 1; v. 275; p. 35.
Heating-furnace. C. L. W. Trinks. No. 1,342,074; June 1; v. 275; p. 90.
Heavier-than-air bodies, Safety device for. E. R. Case. No. 1,341,783; June 1; v. 275; p. 34.
Heel-building machine. E. E. Winkley. No. 1,342,366; June 1; v. 275; p. 146.
Heel, Protected pneumatic. W. E. Kay. No. 1,342,291; June 1; v. 275; p. 133.
Heels of shoes, Apparatus for covering the. W. J. Drey. No. 1,341,737; June 1; v. 275; p. 25.
Hinge. J. R. Werner. No. 1,341,690; June 1; v. 275; p. 15.
Hinge, Bag-frame. W. A. Lotz. No. 1,341,754; June 1; v. 275; p. 28.
Hitch. L. H. and A. F. Logan. No. 1,341,918; June 1; v. 275; p. 60.
Hog-waterer. L. C. McCartney. No. 1,341,919; June 1; v. 275; p. 60.
Hog-watering fountain. L. C. McCartney. No. 1,341,920; June 1; v. 275; p. 60.
Hoist. E. C. Wilson. No. 1,341,957; June 1; v. 275; p. 68.
Hopple. B. Haulon. No. 1,341,900; June 1; v. 275; p. 56.
Hydrocarbon burner. A. Kaufman. No. 1,341,910; June 1; v. 275; p. 58.
Hydrocarbon burner. F. M. Walker. No. 1,341,688; June 1; v. 275; p. 15.
Ice-conveyer. H. B. Wood. No. 1,341,697; June 1; v. 275; p. 16.
Illuminating apparatus. J. F. Rhodin. No. 1,341,674; June 1; v. 275; p. 12.
Implement, Combination. P. A. Peterson. No. 1,341,759; June 1; v. 275; p. 29.

Implement-holding device. E. Wikstrom. No. 1,342,364; June 1; v. 275; p. 146.
Impulse-starter. F. W. Andrew. No. 1,342,199; June 1; v. 275; p. 115.
Indicator: *See*—
Angle-indicator. Street-indicator.
Station-indicator.
Indicator-holder. G. Schustarich. No. 1,341,935; June 1; v. 275; p. 64.
Inductance-coils, Insulated support for. L. Steinberger and G. Hill. No. 1,342,308; June 1; v. 275; p. 136.
Inductance-coils, Insulated support for. L. Steinberger and G. Hill. No. 1,342,303; June 1; v. 275; p. 135.
Injector, J., J. C., and R. D. Metcalfe. No. 1,342,128; June 1; v. 275; p. 101.
Inking mechanism. J. White. No. 1,341,691; June 1; v. 275; p. 15.
Inking-roller-driving mechanism. J. White. No. 1,341,692; June 1; v. 275; p. 15.
Intake-manifold. D. K. Champaign. No. 1,342,159; June 1; v. 275; p. 108.
Internal-combustion engine. C. H. T. Alston. No. 1,342,146; June 1; v. 275; p. 105.
Internal-combustion engine. P. D. Hibner. No. 1,342,108; June 1; v. 275; p. 94.
Internal-combustion engine. M. Wojcula. No. 1,342,368; June 1; v. 275; p. 147.
Internal-combustion engine Rotary. H. L. Kline. No. 1,341,854; June 1; v. 275; p. 47.
Internal-combustion engine, Two-stroke. F. P. Flint. No. 1,342,105; June 1; v. 275; p. 97.
Iron ores, Treatment of. C. R. Hayward, F. O. Stillman, and H. M. Schleicher. No. 1,341,901; June 1; v. 275; p. 56.
Ironing-support. S. E. Durant. No. 1,342,278; June 1; v. 275; p. 131.
Jack: *See*—
Lifting-jack. Vehicle-jack.
Jack. J. J. Kuntz. No. 1,342,389; June 1; v. 275; p. 151.
Jack-bar. J. C. Kopf. No. 1,341,856; June 1; v. 275; p. 48.
Jar: *See*—
Preserving-jar.
Jar-closure. Q. A. Gates. No. 1,341,897; June 1; v. 275; p. 56.
Joint: *See*—
Furnace-joint. Rail-joint.
Journal-bearing, Adjustable. J. Murrin and E. J. Brewster. No. 1,342,059; June 1; v. 275; p. 87.
Journal-box. W. H. Foster. No. 1,342,164; June 1; v. 275; p. 109.
Key: *See*—
Telephone-key.
Key-changing combination-lock. W. T. Benham. No. 1,341,816; June 1; v. 275; p. 52.
Key-ring holder. B. R. Roblin. No. 341,930; June 1; v. 275; p. 62
Keyswitch. B. L. Moore. No. 1,341,719; June 1; v. 275; p. 21.
Keyboard. C. Wolcott. No. 1,342,244; June 1; v. 275; p. 124.
Kiln: *See*—
Drying-kiln.
Knife: *See*—
Bread-knife.
Ladder. H. C. Bissell and J. G. Chase. No. 1,342,153; June 1; v. 275; p. 106.
Ladder. F. M. de Saussure, Jr. No. 1,341,707; June 1; v. 275; p. 18.
Laminated fabric. W. Kline. No. 1,341,987; June 1; v. 275; p. 73.
Lamp. R. Geer. No. 1,342,330; June 1; v. 275; p. 140.
Lamp. E. A. Hawthorne. No. 1,342,215; June 1; v. 275; p. 119.
Lamp-chimneys, Heating device for. L. B. Tebeau. No. 1,342,359; June 1; v. 275; p. 145.
Lamp, Dirigible. W. H. Spencer. No. 1,341,681; June 1; v. 275; p. 14.
Lamp, Incandescent electric. S. Yuyama. No. 1,341,966; June 1; v. 275; p. 69.
Lasting-machine. M. Brock. No. 1,341,732; June 1; v. 275; p. 24.
Latch. L. W. Holland. No. 1,341,802; June 1; v. 275; p. 38.
Lathe-dog. R. W. Lofstrom. No. 1,342,122; June 1; v. 275; p. 100.
Lathe, Turning. A. Sundt. No. 1,341,946; June 1; v. 275; p. 65.
Lathes and other machine-tools, Interconnected clutch and gear shift for. J. Macnab and G. H. Smith. No. 1,342,126; June 1; v. 275; p. 101.
Legging. U. S. De Moulin. No. 1,341,885; June 1; v. 275; p. 53.
Lid-supporter. N. A. Davas. No. 1,342,325; June 1; v. 275; p. 139.
Life-saving appliance. F. P. Ingram. No. 1,341,908; June 1; v. 275; p. 58.
Life-saving device. F. Lavryk. No. 1,341,752; June 1; v. 275; p. 28.
Lifting-jack. F. Miller. No. 1,342,057; June 1; v. 275; p. 87.
Light: *See*—
Flash-light.
Lighting-arrester. C. W. Howe. No. 1,342,111; June 1; v. 275; p. 98.
Lock: *See*—
Auto steering-lock. Nut-lock.
Automobile-lock.
Key-changing combination-lock.
Lock. R. E. Brown. No. 1,342,157; June 1; v. 275; p. 107.
Lock. C. van der Leun. No. 1,342,075; June 1; v. 275; p. 90.
Locket. H. Wachenheimer. No. 1,342,035; June 1; v. 275; p. 83.
Locking attachment. J. P. Headley, Jr. No. 1,342,020; June 1; v. 275; p. 80.
Locomotive. W. E. Woodard. No. 1,341,961; June 1; v. 275; p. 68.
Loom, Finishing replenishing. A. E. Rhoades. No. 1,341,999; June 1; v. 275; p. 75.
Loom, Terry-. A. E. Rhoades. No. 1,341,929; June 1; v. 275; p. 62.
Loom, Weft-replenishing. E. A. and J. V. Cunniff and J. K. Lanning. No. 1,341,883; June 1; v. 275; p. 53.
Lubricator: *See*—
Spring-lubricator.
Lubricants, Purifying apparatus for. F. R. Perry. No. 1,342,063; June 1; v. 275; p. 88.
Lubricating apparatus. D. F. Fesler. No. 1,341,892; June 1; v. 275; p. 55.
Lubricating-strip for leaf-springs. T. S. Hamilton. (Reissue.) No. 14,870; June 1; v. 275; p. 156.
Lubrication system. H. B. Taylor. No. 1,341,866; June 1; v. 275; p. 50.
Magnetic contractor. H. L. Van Valkenburg. No. 1,341,867; June 1; v. 275; p. 50.
Manure-conveyer. H. F. Hensel and W. J. Stake. No. 1,342,217; June 1; v. 275; p. 119.
Manure-spreaders, Attachment for. A. E. Brichacek. No. 1,342,249; June 1; v. 275; p. 125.
Mask, Mosquito. P. Dowd. No. 1,342,277; June 1; v. 275; p. 130.
Match-lighter. J. A. Cunningham. No. 1,341,785; June 1; v. 275; p. 34.
Mechanical movement. H. P. Gorman. No. 1,342,019; June 1; v. 275; p. 79.
Mechanical movement. H. G. Hill. No. 1,342,170; June 1; v. 275; p. 110.
Meter: *See*—
Volt-ampere meter.
Metal-drawing apparatus. F. J. O'Brien. No. 1,341,664; June 1; v. 275; p. 10.
Metal-reducing machine. B. M. W. Hanson. No. 1,341,799; June 1; v. 275; p. 37.
Metal-working machine. O. H. de Lapotterie. No. 1,341,808; June 1; v. 275; p. 39.
Mid-ocean station. J. M. Roberts. No. 1,341,677; June 1; v. 275; p. 13.
Mill: *See*—
Water-mill.
Mill for rolling circular sections, Adjustable. B. F. Fannee. No. 1,341,891; June 1; v. 275; p. 54.
Milling-machines, Brace for. J. C. Lawrence. No. 1,342,390; June 1; v. 275; p. 151.
Mineral separation, Apparatus for. W. W. Wilson. No. 1,341,770; June 1; v. 275; p. 31.
Mirror, Ear hand-. E. H. Roy. No. 1,342,350; June 1; v. 275; p. 144.
Mirror, Mouth hand-. E. H. Roy. No. 1,342,351; June 1; v. 275; p. 144.
Mold: *See*—
Cement-block mold.
Molded objects and apparatus for use in connection therewith, Process of producing. P. Rauer. No. 1,342,184; June 1; v. 275; p. 112.
Molded products, Producing. L. T. Richardson. No. 1,342,067; June 1; v. 275; p. 89.
Mop. S. F. Petersen. No. 1,342,182; June 1; v. 275; p. 112.
Mop and brush holder. L. Weschler. No. 1,342,036; June 1; v. 275; p. 83.
Motor-control system. R. T. Kintzing. No. 1,341,650; June 1; v. 275; p. 7.
Motor-control system. E. S. Lammers, Jr. No. 1,341,651; June 1; v. 275; p. 7.
Motor-controller. W. M. Shallcross. No. 1,341,937; June 1; v. 275; p. 64.
Motorcycle back-rest. C. Kuderer. No. 1,342,388; June 1; v. 275; p. 151.
Mousetrap. J. R. Carson. No. 1,342,098; June 1; v. 275; p. 95.
Mousetrap. J. C. Doust. No. 1,342,255; June 1; v. 275; p. 126.
Newspaper. E. H. Cottress. No. 1,341,633; June 1; v. 275; p. 4.
Newspaper. E. H. Cottrell. No. 1,341,634; June 1; v. 275; p. 4.
Nozzle and sprayer, Liquid. H. Murphy. No. 1,342,027; June 1; v. 275; p. 81.
Nozzle, Flushing-. J. McNeil. No. 1,342,124; June 1; v. 275; p. 100.
Nut-lock. W. F. Evans. No. 1,341,741; June 1. v. 275; p. 25.
Oil-burner. S. A. Graffunder. No. 1,341,797; June 1; v. 275; p. 37.
Oil burner, Fuel-. W. M. Hoffman. No. 1,341,643; June 1; v. 275; p. 5.

Oil burner, Fuel-. W. M. Hoffman. No. 1,341,644; June 1; v. 275; p. 6.
Oil burners, apparatus for operating and controlling fuel-. W. M. Hoffman. No. 1,341,642; June 1; v. 275; p. 5.
Oil drilling and pumping rigs, Adjustable follower-block for. F. E. Bralle. No. 1,341,968; June 1; v. 275; p. 70.
Oil, Making gas-. C. Ellis. No. 1,341,975; June 1; v. 275; p. 71.
Oiler, Spring-. H. A. Wimperis. No. 1,342,365; June 1; v. 275; p. 146.
Ores for sintering and product thereof, Preparing fine. F. A. Eustis. No. 1,341,890; June 1; v. 275; p. 54.
Oven. J. W. Whittinghill. No. 1,341,829; June 1; v. 275; p. 43.
Oven or furnace. G. M. Hollenbeck. No. 1,341,903; June 1; v. 275; p. 57.
Packing. A. P. Anderson. No. 1,342,198; June 1; v. 275; p. 115.
Packing-tool. V. Doyle. No. 1,341,888; June 1; v. 275; p. 54.
Pad: *See*—
Sanitary pad. Sled-pad.
Padlock, Permutation-. H. N. Tennille. No. 1,342,033; June 1; v. 275; p. 82.
Paintbrush, Fountain-. R. Hainsey. No. 1,342,211; June 1; v. 275; p. 118.
Painter's striping mechanism. V. Jansen. No. 1,341,803; June 1; v. 275; p. 38.
Painting apparatus. R. Hainsey. No. 1,342,212; June 1; v. 275; p. 118.
Paper, carboard, and the like, Proceeding for the production of paste destined for manufacture of. C. O. Lottero. No. 1,341,991; June 1; v. 275; p. 74.
Paper-reinforcing machine. C. H. Howard. No. 1,341,981; June 1; v. 275; p. 72.
Paper-roll support. E. L. Reed. No. 1,341,862; June 1; v. 275; p. 49.
Parachute. J. A. El Vean. No. 1,341,794; June 1; v. 275; p. 36.
Parasols, umbrellas, Detachable handle construction for. W. H. Beebler. No. 1,342,320; June 1; v. 275; p. 138.
Pastry forms, Apparatus for making. E. A. Hamwi. No. 1,342,045; June 1; v. 275; p. 85.
Paving-joint, Elastic or expansible. W. J. Moeller. (Reissue.) No. 14,871; June 1; v. 275; p. 156.
Paving plant, Portable. F. B. Totman. No. 1,341,948; June 1; v. 275; p. 66.
Peeling machine, Fruit-. M. E. Dunkley. No. 1,341,738; June 1; v. 275; p. 25.
Pen, Fountain-. H. W. Haslup. No. 1,341,850; June 1; v. 275; p. 47.
Penholder, Writing-position. J. W. Griffith. No. 1,341,847; June 1; v. 275; p. 46.
Periscope. H. H. Styll. No. 1,341,683; June 1; v. 275; p. 14.
Phenol and other aromatic hydrocarbons from water or other liquids, Removing. R. M. Leggett. No. 1,341,913; June 1; v. 275; p. 59.
Phonograph. H. Guilbert. No. 1,342,284; June 1; v. 275; p. 132.
Phonograph-brake. J. H. Kuns. No. 1,342,023; June 1; v. 275; p. 80.
Photo-sticker. E. V. Bloomquist. No. 1,342,248; June 1; v. 275; p. 125.
Piano-actions, Flexible striking device for. N. M. Ong. No. 1,342,029; June 1; v. 275; p. 81.
Picker-head. C. N. Wisner. No. 1,341,959; June 1; v. 275; p. 68.
Picture and sound-reproducing apparatus, Motion-. J. G. Saltzman. No. 1,341,933; June 1; v. 275; p. 63.
Picture-frame, Adjustable. K. Chrobak. No. 1,341,971; June 1; v. 275; p. 70.
Picture-projecting mechanism, Motion-. A. Chiarelli. No. 1,342,040; June 1; v. 275; p. 84.
Piling-machine. C. Taylor, and B. H. Saunders. No. 1,342,190; June 1; v. 275; p. 114.
Piling, Sheet-. E. Troye. No. 1,341,949; June 1; v. 275; p. 66.
Pipe-wrench. R. B. Shook. No. 1,342,356; June 1; v. 275; p. 145.
Piston-ring. F. Hachmann. No. 1,342,380; June 1; v. 275; p. 149.
Piston-rings, Apparatus for manufacturing. F. Ray. No. 1,341,671; June 1; v. 275; p. 11.
Plane. W. C. Bowlen. No. 1,342,154; June 1; v. 275; p. 106.
Planes, Adjustable gage for. L. C. Payne. No. 1,341,820; June 1; v. 275; p. 41.
Plaster-board, Method of and machine for handling. O. L. Routt, G. C. McConnell, and J. H. L. Glaze. No. 1,342,185; June 1; v. 275; p. 113.
Plastic materials, Apparatus for molding. G. R. Trevillian. No. 1,342,192; June 1; v. 275; p. 114.
Platinum and similar metals from their sands and ores, Extracting. R. Thayer. No. 1,341,686; June 1; v. 275; p. 14.
Plow construction. W. Kallckl. No. 1,342,386; June 1; v. 275; p. 150.
Pneumatic mechanism. J. O'Connor. No. 1,342,180; June 1; v. 275; p. 112.
Pocket, Garment-. J. Gunderson. No. 1,342,168; June 1; v. 275; p. 109.
Portable burner. E. Rector. No. 1,341,672; June 1; v. 275; p. 12.
Powder-box, Sifter. M. K. Turner. No. 1,341,951; June 1; v. 275; p. 67.
Power-generating system. G. Yanacopoulos. No. 1,342,318; June 1; v. 275; p. 138.
Power-wrench. G. D. Alexander. No. 1,341,700; June 1; v. 275; p. 17.
Preserving-jar. W. F. Balcom. No. 1,342,039; June 1; v. 275; p. 84.
Press: *See*—
Printing-press.
Press or stamping-machine. F. M. Opitz. No. 1,341,721; June 1; v. 275; p. 21.
Printing-machines, Delivery mechanism for. A. H. Smith. No. 1,342,187; June 1; v. 275; p. 113.
Printing-press. J. White. No. 1,341,693; June 1; v. 275; p. 16.
Printing-presses, Inking mechanism for. H. M. Barber. No. 1,341,627; June 1; v. 275; p. 3.
Printing-press, Inking-roll truck for. J. H. Schussler. No. 1,342,355; June 1; v. 275; p. 145.
Printing-presses, Sheet-guide for. C. F. Huneycutt. No. 1,342,113; June 1; v. 275; p. 98.
Projectile. K. Dougan. No. 1,341,844; June 1; v. 275; p. 46.
Projection apparatus. H. N. Ott, and F. H. Bufton. No. 1,341,665; June 1; v. 275; p. 10
Projection apparatus. H. N. Ott and F. H. Bufton. No. 1,341,666; June 1; v. 275; p. 10.
Projection-objectives, Adjusting means for. H. N. Ott, and F. H. Bufton. No. 1,341,667; June 1; v. 275; p. 10.
Puller: *See*—
Stopper-puller.
Pulley, Crank-shaft transmission-. J. W. B. Ladd and R. E. Rich. No. 1,341,914; June 1; v. 275; p. 59.
Pulp, Grinding-apparatus for manufacture of wood-. P. C. Schaanning. No. 1,342,231; June 1; v. 275; p. 122.
Pump. A. G. Browning. No. 1,342,087; June 1; v. 275; p. 93.
Pump. J. Loftus. No. 1,342,176; June 1; v. 275; p. 111.
Pump. E. F. Porter. No. 1,341,669; June 1; v. 275; p. 11.
Pump, Engine fuel-. A. S. Hawks. No. 1,341,640; June 1; v. 275; p. 5.
Pumps, Construction of force or lift. D. B. Hutton. No. 1,341,906; June 1; v. 275; p. 57.
Push-button axture, Electric. O. A. Pedersen. No. 1,341,668; June 1; v. 275; p. 11.
Pyroxylin and compositions containing same, Solvent for use with. E. M. Flaherty. No. 1,341,710; June 1; v. 275; p. 19.
Rack: *See*—
Clothes-rack. Wall-rack.
Rack or shelving. R. W. Jefferies. No. 1,341,852; June 1; v. 275; p. 47.
Radiator. H. D. Kellogg. No. 1,341,649; June 1; v. 275; p. 7.
Radiator, Automobile-. J. Clish. No. 1,341,784; June 1; v. 275; p. 34.
Rail-bender. E. F. Goben. No. 1,342,263; June 1; v. 275; p. 128.
Rail-chair. C. S. Clark. No. 1,342,251; June 1; v. 275; p. 126.
Rail-clamp. F. Wisnlewskl. No. 1,342,078; June 1; v. 275; p. 91.
Rail-fastener. J. Wiecek. No. 1,342,196; June 1; v. 275; p. 115.
Rail-joint. L. Elbner. No. 1,342,377; June 1; v. 275; p. 148.
Rail-joint. J. J. Powlick. No. 1,342,065; June 1; v. 275; p. 89.
Rail-joint. J. Rizzuto. No. 1,342,228; June 1; v. 275; p. 121.
Rail-joint. N. H. Roe. No. 1,341,931; June 1; v. 275; p. 63.
Rail-joint. J. Szarek. No. 1,342,006; June 1; v. 275; p. 77.
Rail joint and brace. L. A. Buck. No. 1,342,323; June 1; v. 275; p. 139.
Railway-crossings, Safety device for. C. A. Snyder. No. 1,342,002; June 1; v. 275; p. 76.
Railway-signal. B. E. Andress. No. 1,341,772; June 1; v. 275; p. 32.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,341,753; June 1; v. 275; p. 28.
Rakes, Automatic hay-ejector for sweep-. V. C. Palmer. No. 1,341,819; June 1; v. 275; p. 41.
Razor, Safety-. A. H. Bryant. No. 1,342,370; June 1; v. 275; p. 147.
Razor, Safety-. L. S. Nordskog. No. 1,342,028; June 1; v. 275; p. 81.
Receptacle, Metallic. H. R. Gogay. No. 1,341,638; June 1; v. 275; p. 5.
Recuperator. A. B. Chantraine. No. 1,341,970; June 1; v. 275; p. 70.
Recuperator. C. L. W. Trinks. No. 1,342,073; June 1; v. 275; p. 90.
Reel or beam. F. Mossberg. No. 1,341,815; June 1; v. 275; p. 40.
Reel or beam. F. Mossberg. No. 1,341,816; June 1; v. 275; p. 40.
Reel or beam. F. Mossberg. No. 1,341,817; June 1; v. 275; p. 40.

Reel-frames, Machine for making. J. Yennett and E. T. Lonkert. No. 1,341,964; June 1; v. 275; p. 69.
Refrigerating and heating system. W. M. Baxter. No. 1,342,403; June 1; v. 275; p. 154.
Refrigerator-vehicle. R. D. Hatch. No. 1,341,744; June 1; v. 275; p. 26.
Register: *See*—
Account-register.
Regulator: *See*—
Draft-regulator. Heat-regulator.
Relay. J. Erickson. No. 1,342,256; June 1; v. 275; p. 126.
Relay, Electrical. H. W. Brown. No. 1,341,629; June 1; v. 275; p. 3.
Resilient wheel. H. C. Anderson. No. 1,342,271; June 1; v. 275; p. 129.
Resilient wheel. A. D'Errico. No. 1,341,842; June 1; v. 275; p. 45.
Resilient wheel. A. Jimenez. No. 1,342,289; June 1; v. 275; p. 132.
Revolver-stock. P. Donadio. No. 1,341,843; June 1; v. 275; p. 46.
Rim, Demountable. W. S. Krause. No. 1,342,118; June 1; v. 275; p. 99.
Rim, Split demountable. E. Oliver. No. 1,341,926; June 1; v. 275; p. 62.
Ring: *See*—
Piston-ring.
Rings, Brazing end. C. W. Starker. No. 1,341,682; June 1; v. 275; p. 14.
Rivet-caps, Machine for feeding circular. A. R. Havener. No. 1,342,331; June 1; v. 275; p. 140.
Robe-holder. R. L. Clark. No. 1,342,274; June 1; v. 275; p. 130.
Rod-support. L. V. Cram. No. 1,342,099; June 1; v. 275; p. 95.
Roller-table. H. A. Lewis and A. D. Wood. No. 1,342,220; June 1; v. 275; p. 120.
Rolling mills, Connection with plate and like. T. E. Holmes. No. 1,342,264; June 1; v. 275; p. 128.
Rolling mills, Friction drive for the top rolls of. J. E. Montgomery. No. 1,342,343; June 1; v. 275; p. 142.
Roof-framing tool, Combination. H. W. Scott. No. 1,342,232; June 1; v. 275; p. 122.
Rotary power device. E. H. Gollings. No. 1,341,836; June 1; v. 275; p. 46.
Rubber mixing, grinding, sheeting, and similar mills. F. Iddon. No. 1,342,114; June 1; v. 275; p. 99.
Rug. M. Feldman. No. 1,342,259; June 1; v. 275; p. 127.
Rule, Calipering-. K. E. Solberg. No. 1,341,865; June 1; v. 275; p. 50.
Safe. A. H. Gernsbacher. No. 1,341,899; June 1; v. 275; p. 56.
Safe, Drip-water. J. J. Hickey. No. 1,342,287; June 1; v. 275; p. 132.
Sag-gate, Adjustable. J. R. Wright. No. 1,341,963; June 1; v. 275; p. 69.
Sanitary pad. M. V. Bauer. No. 1,341,875; June 1; v. 275; p. 51.
Saw-blades, Machine for forming. A. König. No. 1,341,806; June 1; v. 275; p. 38.
Saw-filing clamp. J. Szako. No. 1,342,236; June 1; v. 275; p. 123.
Saw-set. C. P. Ellis. No. 1,342,327; June 1; v. 275; p. 139.
Scenic effects, Combining reflected and transmitted light-waves of varying lengths to produce subjective changes in. C. Bittinger. No. 1,342,247; June 1; v. 275; p. 125.
Scraper, Fork-. J. H. Johnson. No. 1,341,750; June 1; v. 275; p. 27.
Screen: *See*—
Window-screen.
Sealing composition, Gasket-. J. F. Vervoort. No. 1,341,952; June 1; v. 275; p. 67.
Seams, Making triple. A. H. Weis. No. 1,341,769; June 1; v. 275; p. 31.
Separator: *See*—
Grain-separator.
Sewing-machine. W. J. Glidden. No. 1,342,165; June 1; v. 275; p. 109.
Sewing-machine, Automatic. E. E. Winkley. No. 1,342,367; June 1; v. 275; p. 147.
Sewing machines, Thread-cutter for bag-. J. O. Bakke. No. 1,342,150; June 1; v. 275; p. 105.
Shade and curtain-pole bracket. F. Ruzicka. No. 1,342,230; June 1; v. 275; p. 122.
Shade-holder. B. Selwacki. No. 1,342,070; June 1; v. 275; p. 90.
Shade-holder support. T. Glanding. No. 1,341,845; June 1; v. 275; p. 46.
Shade material, Making painted. J. P. Whitmore. No. 1,341,956; June 1; v. 275; p. 67.
Shade, Windshield-. A. L. Nash. No. 1,342,347; June 1; v. 275; p. 143.
Sharpener, Pencil-. C. E. Stone. No. 1,341,943; June 1; v. 275; p. 65.
Sharpening domestic and other knives, Device for use in. A. Cornell. No. 1,342,275; June 1; v. 275; p. 130.
Shells, Producing covered box-. W. A. Weightman and C. H. Nitsch. No. 1,341,954; June 1; v. 275; p. 67.
Sheet-gage. J. White and W. Eckhard. No. 1,341,694; June 1; v. 275; p. 16.
Sheet-metal articles, Making edge-corrugated. A. S. Barrows. No. 1,341,967; June 1; v. 275; p. 70.
Sheets, Antismutting device for traveling. B. D. Knowles. No. 1,342,117; June 1; v. 275; p. 99.
Ships' gyroscopes, Controlling mechanism for. E. A. Sperry. No. 1,342,397; June 1; v. 275; p. 152.
Shirts, Simultaneously cutting and sewing. J. P. Weis. No. 1,342,009; June 1; v. 275; p. 77.
Shoe-lace tip. M. B. Sickles. No. 1,341,940; June 1; v. 275; p. 64.
Shoe-taps, Reinforcement for the shank edges of. H. Bruck. No. 1,341,880; June 1; v. 275; p. 52.
Shoes, Making. J. J. Heys. No. 1,341,746; June 1; v. 275; p. 27.
Shoes, Pull-strap for laced. W. H. Avis. No. 1,342,149; June 1; v. 275; p. 105.
Shovel: *See*—
Sifting-shovel.
Shutter, Photographic. W. A. Riddell and F. A. G. Pirwitz. No. 1,341,823; June 1; v. 275; p. 42.
Shuttle-check, Cushion-spring. D. E. Skedgell. No. 1,341,941; June 1; v. 275; p. 64.
Sickle. R. R. Zahnter. No. 1,342,369; June 1; v. 275; p. 147.
Sleve-cleaning device. N. G. Ek. No. 1,341,793; June 1; v. 275; p. 36.
Sifting-shovel. J. C. Bandini. No. 1,341,874; June 1; v. 275; p. 51.
Signaling apparatus, Wireless. R. A. Weagant. No. 1,342,399; June 1; v. 275; p. 153.
Skate-protector. A. Johnson. No. 1,341,853; June 1; v. 275; p. 47.
Skid, Loading-. B. J. Hubbard. No. 1,341,904; June 1; v. 275; p. 57.
Signal: *See*—
Auto-signal. Railway-signal.
Skiving-machine. A. Latham. No. 1,342,120; June 1; v. 275; p. 100.
Sled, Automobile. J. Wachniak. No. 1,342,410; June 1; v. 275; p. 155.
Sled-pad. J. Dickle. No. 1,341,708; June 1; v. 275; p. 18.
Slicer, Rotary vegetable-. O. A. Freeman. No. 1,341,894; June 1; v. 275; p. 55.
Slicing-knives, Adjustable and releasing guard for. C. H. Krapf. No. 1,342,292; June 1; v. 275; p. 133.
Sod-disintegrator and quack-grass eradicator. A. Newdall, N. P. Nelson, and M. Newdall. No. 1,341,861; June 1; v. 275; p. 49.
Solution, Obtaining a concentrated SO_2. N. C. Christensen. No. 1,341,734; June 1; v. 275; p. 24.
Sound-record tablet and producing same. V. H. Emerson. No. 1,341,740; June 1; v. 275; p. 25.
Sound records and making same, Composition of matter for. T. A. Edison. No. 1,342,326; June 1; v. 275; p. 139.
Sound reproducing machines, Automatic stop for. O. O. Storle. No. 1,341,767; June 1; v. 275; p. 31.
Sounds, Apparatus for muffling. J. O. Fisher. No. 1,341,976; June 1; v. 275; p. 71.
Spark-plug. G. T. Dochtermann. No. 1,342,205; June 1; v. 275; p. 117.
Spark-plug insulator. J. Ingels. No. 1,341,747; June 1; v. 275; p. 27.
Speedometer, Electric. S. C. Winger and A. Rickenbacher. No. 1,341,958; June 1; v. 275; p. 68.
Spoke, Resilient. I. Ilieff. No. 1,341,907; June 1; v. 275; p. 58.
Spring: *See*—
Vehicle-spring.
Spring-lubricator. M. Jarmie. No. 1,342,172; June 1; v. 275; p. 110.
Stanchion-support. J. M. B. Lewis. No. 1,341,989; June 1; v. 275; p. 74.
Stapling-machines, Cutting-blade for. H. B. Walter. No. 1,342,240; June 1; v. 275; p. 124.
Starting and generating system. W. A. Turbayne. No. 1,342,409; June 1; v. 275; p. 155.
Station-indicator. J. L. Gore. No. 1,342,283; June 1; v. 275; p. 131.
Staybolt. J. R. Flannery and E. I. Dodds. No. 1,342,162; June 1; v. 275; p. 108.
Steamer. F. R. Colquit. No. 1,341,972; June 1; v. 275; p. 71.
Steel concrete girders, Support-strap for reinforcement in. J. E. Orvin. No. 1,342,349; June 1; v. 275; p. 144.
Steering device. J. M. H. Jacobs. No. 1,342,385; June 1; v. 275; p. 150.
Stock-cutting machine. E. E. Winkley. No. 1,342,144; June 1; v. 275; p. 104.
Stoker, Mechanical. J. G. Midgley. No. 1,341,923; June 1; v. 275; p. 61.
Stones or slabs of marble-like appearance, Production of artificial. H. Grönroos. No. 1,341,979; June 1; v. 275; p. 72.
Stop-motion. E. U. Ames. No. 1,342,245; June 1; v. 275; p. 125.
Stop-motion, Take-up. H. R. Bauer and H. F. Reinhold. No. 1,342,272; June 1; v. 275; p. 130.
Stopper-puller. T. C. Spelling. No. 1,341,680; June 1; v. 275; p. 13.
Stove, Flint. No. 1,342,163; June 1; v. 275; p. 108.
Stove, Portable. T. E. Taylor. No. 1,342,072; June 1; v. 275; p. 90.
Street-indicator. S. D. Roberson. No. 1,342,394; June 1; v. 275; p. 152.

Strut, Fusible. J. Dawson. No. 1,342,203; June 1; v. 275; p. 116.
Suction cleaning-machine, Portable. D. P. Moore and S. B. Pack. No. 1,342,345; June 1; v. 275; p. 143.
Sugar, Machine for stirring maple-. M. Hanauer. No. 1,341,743; June 1; v. 275; p. 26.
Switch: *See*—
Electric switch. Key-switch.
Switch-frog. L. Horvath and T. J. Blackburn. No. 1,342,332; June 1; v. 275; p. 140.
Switch mechanism, Safety-. H. F. Krantz. No. 1,342,219; June 1; v. 275; p. 120.
Switch-operating mechanism. T. H. Schutt. No. 1,341,764; June 1; v. 275; p. 30.
Table: *See*—
Drawing-table. Roller-table.
Table and ironing-board, Combination. H. Hoeglund. No. 1,342,109; June 1; v. 275; p. 98.
Table and seat, Combined. W. Kornaszewski. No. 1,342,387; June 1; v. 275; p. 150.
Tack-feeding mechanism. A. Perri. No. 1,341,821; June 1; v. 275; p. 41.
Talking-machine. M. Krauss. No. 1,341,751; June 1; v. 275; p. 27.
Tamper implement. N. C. Study. No. 1,341,945; June 1; v. 275; p. 65.
Tamping-machine. N. C. Study. No. 1,341,944; June 1; v. 275; p. 65.
Tank. C. A. Xardell. No. 1,341,965; June 1; v. 275; p. 69.
Target. O. Klein. No. 1,342,022; June 1; v. 275; p. 80.
Target. W. A. Mosby. No. 1,341,814; June 1; v. 275; p. 40.
Teacups, saucepans, and the like, Detachable handle for. J. P. Morine. No. 1,341,756; June 1; v. 275; p. 29.
Telegraph-key. W. P. Liles. No. 1,341,810; June 1; v. 275; p. 39.
Telegraph system. P. M. Rainey. No. 1,341,998; June 1; v. 275; p. 75.
Telemotor apparatus. W. Wallace. No. 1,342,238; June 1; v. 275; p. 1..3.
Telephone attachment. S. M. Knopf. No. 1,341,855; June 1; v. 275; p. 48.
Telephone-exchange system, Graded-service electromechanical. G. Helmann. No. 1,341,801; June 1; v. 275; p. 38.
Telephone-exchange trunking system. B. D. Willis. No. 1,342,242; June 1; v. 275; p. 124.
Telephone switching apparatus, Toll-. H. M. Friendly and A. E. Burns. No. 1,342,260; June 1; v. 275; p. 127.
Telephone system, Semi-automatic. J. Wicks. No. 1,342,241; June 1; v. 275; p. 124.
Telephone-transmitter. W. and J. Birrell. No. 1,341,837; June 1; v. 275; p. 44.
Telephone-transmitter. S. C. Porter. No. 1,341,997; June 1; v. 275; p. 75.
Tent. W. K. Smith. No. 1,342,234; June 1; v. 275; p. 122.
Tie-plate and rail-brace, Combined. D. F. Vaughan. No. 1,342,194; June 1; v. 275; p. 114.
Tile, Mold for making building-. L. H. de Fernelmont. No. 1,342,208; June 1; v. 275; p. 117.
Tire. W. H. McGowen. No. 1,341,656; June 1; v. 275; p. 8.
Tire, Automobile-. G. G. Martin. No. 1,342,339; June 1; v. 275; p. 141.
Tire, Automobile-. R. L. Prudhomme. No. 1,342,297; June 1; v. 275; p. 134.
Tire-casing. D. Neal. No. 1,341,663; June 1; v. 275; p. 10.
Tire-chain fastener. E. M. Nelson. No. 1,341,924; June 1; v. 275; p. 61.
Tire-changer. I. A. Weaver. No. 1,341,727; June 1; v. 275; p. 22.
Tire-changing mechanism. I. A. Weaver. No. 1,341,729; June 1; v. 275; p. 23.
Tire-changing appliance. I. A. Weaver and J. Sternaman. No. 1,341,728; June 1; v. 275; p. 23.
Tire-changing machine. I. A. Weaver and J. Sternaman, Jr. No. 1,341,726; June 1; v. 275; p. 22.
Tire-cover. E. J. Herchert. No. 1,342,169; June 1; v. 275; p. 109.
Tire-removing appliance. I. A. Weaver and J. Sternaman. No. 1,341,730; June 1; v. 275; p. 23.
Tire, Resilient. V. L. Buchman. No. 1,342,158; June 1; v. 275; p. 107.
Tires, Multiple-compartment inner tube for automobile and other. J. N. Shafer. No. 1,341,936; June 1; v. 275; p. 64.
Tires, Tool for use in removing and replacing. V. H. Mankey. No. 1,342,295; June 1; v. 275; p. 134.
Tool-driver, Power-driven. G. D. Alexander. No. 1,341,701; June 1; v. 275; p. 17.
Tool, Garden-. O. H. Oleen. No. 1,341,392; June 1; v. 275; p. 151.
Tool-holder. G. C. Schoenborn. No. 1,341,934; June 1; v. 275; p. 63.
Tool-holder. A. Skibinski. No. 1,342,031; June 1; v. 275; p. 82.
Tool, Mechanic's. A. Ozerowicz. No. 1,341,757; June 1; v. 275; p. 29.
Tool-support. H. F. Haensler. No. 1,341,848; June 1; v. 275; p. 47.
Tooth, Artificial. S. Earp. No. 1,342,376; June 1; v. 275; p. 148.
Tooth, Artificial. M. E. Merker. No. 1,341,813; June 1; v. 275; p. 40.
Tooth having an interchangeable facing. F. C. Goodwin. No. 1,342,379; June 1; v. 275; p. 149.
Toothbrush, Electrically-vibrated. P. J. Fitzgerald. No. 1,342,280; June 1; v. 275; p. 131.
Toothbrush, Rotary. B. W. Leach. No. 1,341,916; June 1; v. 275; p. 59.
Top, Folding. M. Buch. No. 1,342,012; June 1; v. 275; p. 78.
Toy. D. D. Moore. No. 1,342,344; June 1; v. 275; p. 143.
Toy. W. W. White 3. W. No. 1,342,037; June 1; v. 275; p. 83.
Track-adjusting machine. J. Knutsen. No. 1,341,912; June 1; v. 275; p. 59.
Tractor. W. Christie. (Reissue.) No. 14,868; June 1; v. 275; p. 156.
Tractor. J. R. Fouch. No. 1,342,401; June 1; v. 275; p. 153.
Tractor. R. P. Hicks. No. 1,341,851; June 1; v. 275; p. 47.
Tractor-coupling. J. F. Wingert, Jr. No. 1,342,011; June 1; v. 275; p. 78.
Tractors, Traction-chain for caterpillar-. F. A. Putnam and O. C. Reyoun. No. 1,341,761; June 1; v. 275; p. 29.
Traffic-controlling apparatus, Railway-. L. F. Howard. No. 1,341,982; June 1; v. 275; p. 72.
Train-pipe connector, Automatic. J. V. Robinson. (Reissue.) No. 14,873; June 1; v. 275; p. 156.
Transformer. V. Bush. No. 1,342,250; June 1; v. 275; p. 125.
Trap. A. Enos. No. 1,342,328; June 1; v. 275; p. 139.
Trash and sod chopper or cutter. L. L. Ruebush. No. 1,341,825; June 1; v. 275; p. 42.
Tray or basket, Dish-holding. W. J. Lynch. No. 1,341,717; June 1; v. 275; p. 20.
Trees, Method of and apparatus for sawing. H. C. Hanson and M. B. Sawyer. No. 1,342,213; June 1; v. 275; p. 118.
Trolley-guide box and shield. G. W. Bolden. No. 1,341,878; June 1; v. 275; p. 52.
Trolley-hanger. R. T. Todhunter, H. A. Duke, and A. Woods. No. 1,342,034; June 1; v. 275; p. 82.
Trousers-protector. E. E. M. Bullowa. No. 1,341,733; June 1; v. 275; p. 24.
Truck. M. P. Holmes. No. 1,342,407; June 1; v. 275; p. 155.
Truck and scale, Combined hand-. A. J. Bishop. No. 1,342,246; June 1; v. 275; p. 125.
Truck construction, Motor-. W. A. Kysor. No. 1,342,266; June 1; v. 275; p. 128.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,776; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,777; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,778; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,779; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,780; June 1; v. 275; p. 33.
Truck Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,781; June 1; v. 275; p. 34.
Tube: *See*—
Dental-cement-injecting-tube.
Two-cycle engine. C. L. Bowden. No. 1,341,838; June 1; v. 275; p. 44.
Turbine arrangement, Marine steam-. J. F. Metten and J. C. Shaw. No. 1,342,177; June 1; v. 275; p. 111.
Turbine, Gas-. A. Underdahl. No. 1,342,314; June 1; v. 275; p. 137.
Turbine, Hydraulic. L. F. Moody. No. 1,341,859; June 1; v. 275; p. 49.
Turnbuckle. W. J. Myatt. No. 1,342,130; June 1; v. 275; p. 102.
Turnstile. A. K. Collins. No. 1,342,253; June 1; v. 275; p. 126.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,341,995; June 1; v. 275; p. 74.
Typewriting-machine. C. S. Labofish. No. 1,342,174; June 1; v. 275; p. 110.
Typewriting-machine. G. A. Selb. No. 1,342,186; June 1; v. 275; p. 113.
Typewriting-machine. O. Woodward. No. 1,342,197; June 1; v. 275; p. 115.
Undercreamer. W. W. Wilson. No. 1,342,406; June 1; v. 275; p. 155.
Union-suit, Woman's. J. H. Stanley. No. 1,342,188; June 1; v. 275; p. 113.
Union-suits and drawers, Manufacturing. J. P. Weis. No. 1,342,010; June 1; v. 275; p. 78.
Valve. J. Volckhausen. No. 1,341,828; June 1; v. 275; p. 43.
Valve, Automatic expansion-. W. S. Stair. No. 1,341,766; June 1; v. 275; p. 31.
Valve, Elbow check-. H. J. and W. R. Woock. No. 1,341,870; June 1; v. 275; p. 51.
Valve-grinder. D. F. Dunham. No. 1,342,375; June 1; v. 275; p. 148.
Valve-grinder. E. M. Huston. No. 1,341,984; June 1; v. 275; p. 73.

Valve, Inlet or check. F. L. Henig. No. 1,342,216; June 1; v. 275; p. 119.
Valve or cock. G. Lapenda. No. 1,342,051; June 1; v. 275; p. 86.
Vanity-case. W. G. Kendall. No. 1,342,116; June 1; v. 275; p. 99.
Vaporizing attachment. T. T. Pope. No. 1,341,760; June 1; v. 275; p. 29.
Vehicle, Child's. G. W. Watson. No. 1,341,768; June 1; v. 275; p. 31.
Vehicle-heater. T. Bovey. No. 1,341,879; June 1; v. 275; p. 52.
Vehicle-jack. W. B. Whitton. No. 1,342,140; June 1; v. 275; p. 103.
Vehicle-spring. J. B. Kincer. No. 1,341,805; June 1; v. 275; p. 38.
Vehicle-towing device. E. Yoder. No. 1,342,079; June 1; v. 275; p. 91.
Vehicles, Adjustable shaft-hanger for motor-. H. R. Williams. No. 1,342,143; June 1; v. 275; p. 104.
Vehicles, Apparatuses and process for cooling. C. W. McCoy. No. 1,342,123; June 1; v. 275; p. 100.
Vehicles, Radiator-mounting for motor-. G. J. Thomas. No. 1,342,191; June 1; v. 275; p. 114.
Vending-machine. J. H. Mann, Jr. No. 1,341,921; June 1; v. 275; p. 60.
Ventilator: *See*—
Air-cleaning ventilator.
Ventilator. N. Renner. No. 1,342,066; June 1; v. 275; p. 89.
Vessel and building same, Reinforced-concrete. A. C. Janni. No. 1,342,408; June 1; v. 275; p. 155.
Volt-ampere meter. D. J. Angus. No. 1,342,081; June 1; v. 275; p. 92.
Volt-ampere meter. D. J. Angus. No. 1,342,082; June 1; v. 275; p. 92.
Wagon-brake. E. B. Harris. No. 1,342,381; June 1; v. 275; p. 149.
Wagon-frame. L. Coppock. No. 1,342,254; June 1; v. 275; p. 126.
Wagon, Manually-propelled. E. Thorn. No. 1,341,725; June 1; v. 275; p. 22.
Wall-rack, Folding-. W. W. Lincoln. No. 1,341,654; June 1; v. 275; p. 8.
Wardrobe, Portable. I. N. Stewart. No. 1,342,269; June 1; v. 275; p. 129.
Washtray. L. Helgo. No. 1,342,046; June 1; v. 275; p. 85.
Water-bag. D. A. Climes. No. 1,342,252; June 1; v. 275; p. 126.
Water-closet bowl. H. D. Farris. No. 1,342,016; June 1; v. 275; p. 79.
Water-mill. S. N. Dalmant. No. 1,342,100; June 1; v. 275; p. 96.
Water-tube and a pressure-basin mounting the water-tube, Connection between a. T. Heyerdahl. No. 1,342,286; June 1; v. 275; p. 132.
Weather-strip. E. Clayton. No. 1,341,632; June 1; v. 275; p. 4.
Weather-strip. J. B. A. La Jeunesse. No. 1,342,050; June 1; v. 275; p. 86.
Weed-cutter. S. Johnson. No. 1,341,804; June 1; v. 275; p. 38.
Welding-machine, Autogenous-flame-. H. Cave, and J. L. Anderson. No. 1,341,840; June 1; v. 275; p. 45.
Welding machine, Flame-. W. C. Bucknam. No. 1,341,839; June 1; v. 275; p. 45.
Well-screen. W. E. Minton. No. 1,341,755; June 1; v. 275; p. 29.
Well meter and sampler, Oil-. H. W. Gender. No. 1,341,898; June 1; v. 275; p. 56.
Wheel: *See*—
Resilient wheel.
Wheel. L. H. Perlman. No. 1,342,225; June 1; v. 275; p. 121.
Wheel-rim, Sectional. P. G. Beremand. No. 1,341,877; June 1; v. 275; p. 52.
Whistle. J. C. Ward. No. 1,342,315; June 1; v. 275; p. 137.
Wind-screen for use on conveyances and like purposes. G. H. Ransom. No. 1,342,183; June 1; v. 275; p. 112.
Windmill. J. C. Hansen-Ellehammer. No. 1,342,206; June 1; v. 275; p. 117.
Window-screen. D. O'Neill. No. 1,342,298; June 1; v. 275; p. 134.
Window-ventilator attachment. G. E. Merrill. No. 1,342,222; June 1; v. 275; p. 120.
Wire-drawing machinery. F. A. Keyes. No. 1,341,986; June 1; v. 275; p. 73.
Wire-fence clamp. J. B. Woodson. No. 1,341,698; June 1; v. 275; p. 17.
Wire-twisting device. A. A. Gamble. No. 1,341,895; June 1; v. 275; p. 55.
Wires and tubes of two metals, Manufacture of. E. Martin. No. 1,341,812; June 1; v. 275; p. 39.
Woodworking-machines, Gage attachment for. H. L. Hurff. No. 1,342,218; June 1; v. 275; p. 119.
Work-holder, Universal. C. Jesnig. No. 1,341,646; June 1; v. 275; p. 6.
Work-holding stand. R. C. Lee. No. 1,341,809; June 1; v. 275; p. 39.
Wrapping material. J. J. White. No. 1,341,955; June 1; v. 275; p. 67.
Wrench: *See*—
Pipe-wrench. Power-wrench.
Wrench. J. Gell. No. 1,341,712; June 1; v. 275; p. 19.

ALPHABETICAL LIST OF DESIGNS.

Bag-frame member. W. Turton. No. 55,402; June 1; v. 275; p. 166.
Belt and trousers clamp. T. Delikat. No. 55,368; June 1; v. 275; p. 160.
Blouse, Woman's. A. H. Flanders. Nos. 55,372–3; June 1; v. 275; p. 161.
Bottle-cap. C. Hammer. No. 55,380; June 1; v. 275; p. 162.
Bottlestopper. I. L. French. No. 55,374; June 1; v. 275; p. 161.
Button, Emblem-. G. H. Rennick. No. 55,398; June 1; v. 275; p. 165.
Cabinet for rubber bands. F. Pfohs. No. 55,396; June 1; v. 275; p. 165.
Cabinet, Phonograph-. I. Benson. No. 55,362; June 1; v. 275; p. 159.
Cabinet, Phonograph-. J. S. Blankinship. No. 55,363; June 1; v. 275; p. 159.
Chair. C. Rieder. No. 55,390; June 1; v. 275; p. 165.
Condiment-holder. M. A. Beccias. No. 55,360; June 1; v. 275; p. 158.
Dish, Transparent cooking-. W. Churchill. No. 55,366; June 1; v. 275; p. 160.
Drill-press frame. P. H. Leckinger. No. 55,387; June 1; v. 275; p. 163.
Fabric, Textile. J. Ebel. No. 55,370; June 1; v. 275; p. 160.
Fan. C. M. Levett. No. 55,389; June 1; v. 275; p. 164.
Game. C. R. Teats. No. 55,401; June 1; v. 275; p. 166.
Gas-heater. L. Leban. No. 55,388; June 1; v. 275; p. 164.
Glass goblet. J. O. Balda. Nos. 55,375–9; June 1; v. 275; pp. 157–8.
Heel, Shoe-. W. Melville. No. 55,393; June 1; v. 275; p. 164.
Lacing-tip. E. Fuller. No. 55,375; June 1; v. 275; p. 161.
Light fixtures, Head-ring for electric-. H. Shlamowitz. No. 55,400; June 1; v. 275; p. 166.
Lighting-fixture, Sconce for a. G. J. Vester. No. 55,403; June 1; v. 275; p. 166.
Phonograph-case. L. S. Kurtzmann. No. 55,386; June 1; v. 275; p. 163.
Phonograph tone-chamber. I. Benson. No. 55,361; June 1; v. 275; p. 158.
Picture machines, Housing for motion-. J. Granz. No. 55,377; June 1; v. 275; p. 161.
Pouring device. J. E. O'Brien. No. 55,395; June 1; v. 275; p. 165.
Powder-cloth. A. Marcus. No. 55,391; June 1; v. 275; p. 164.
Powder-puff. A. Marcus. No. 55,392; June 1; v. 275; p. 164.
Radiator-cap. R. D. Cook. No. 55,367; June 1; v. 275; p. 160.
Rail-clamp. J. Kaczmarczyk. No. 55,383; June 1; v. 275; p. 162.
Rosary. G. B. Hovekamp. No. 55,382; June 1; v. 275; p. 162.
Shoe-sole. E. Phillips. No. 55,397; June 1; v. 275; p. 165.
Sounding-post tool. G. J. Champane. No. 55,365; June 1; v. 275; p. 159.
Spat. T. A. Moolten. No. 55,394; June 1; v. 275; p. 165.
Swing, Portable baby-. H. T. and E. J. Kingsbury. No. 55,384; June 1; v. 275; p. 163.
Tire-tread. A. L. Breitenstein. No. 55,364; June 1; v. 275; p. 159.
Tire-tread. H. E. Grooms. No. 55,378; June 1; v. 275; p. 162.
Tongs, Pair of. P. Kuzmjak. No. 55,385; June 1; v. 275; p. 163.
Towel-bar. S. D. Baker. No. 55,354; June 1; v. 275; p. 157.
Toy wheelbarrow. A. C. Gilbert. No. 55,376; June 1; v. 275; p. 161.
Tray. D. G. Dowling. No. 55,369; June 1; v. 275; p. 160.
Typewriting-machine frame. W. F. Helmond. No. 55,381; June 1; v. 275; p. 162.
Wall-bracket. F. K. Maerz. No. 55,390; June 1; v. 275; p. 164.
Washing-machine. H. W. Eden. No. 55,371; June 1; v. 275; p. 160.
Window Auto-curtain. R. Haley. No. 55,379; June 1; v. 275; p. 162.

ALPHABETICAL LIST OF TRADE-MARKS.

Apples, Fresh. Weiser Air Storage Co. No. 131,946; June 1; v. 275; p. 199.
Cakes or biscuits called matzohs. Harowitz Bros. & Margareten. No. 131,941; June 1; v. 275; p. 199.
Candy. Daisy Products Company. No. 131,936; June 1; v. 275; p. 199.
Candy, Chocolate. J. O. Gilbert. No. 131,938; June 1; v. 275; p. 199.
Cotton piece goods, Mercerized. Edwin P. Gleason's Son. No. 131,939; June 1; v. 275; p. 199.
Crackers and cakes. H. W. Clark Biscuit Company. No. 131,935; June 1; v. 275; p. 199.
Crape piece goods, Silk. Salembier & Clay. No. 131,944; June 1; v. 275; p. 199.
Fabrics in the piece, Woven, knitted, &c. Cheney Brothers. Nos. 131,933–4; June 1; v. 275; p. 199.
Fabrics, Textile. Kops Bros. No. 131,942; June 1; v. 275; p. 199.
Feed, Poultry. C. O. Dickelman Co. No. 131,937; June 1; v. 275; p. 199.
Flour and stock feed, Wheat-. Canton Feed & Milling Company. No. 131,932; June 1; v. 275; p. 199.
Knitted and woven automobile-robes, blankets, and cloth or fabric in the piece. Home Woolen Mills. No. 131,940; June 1; v. 275; p. 199.
Polish for leather goods, such as shoes, suitcases. Barton Belt Company. No. 131,931; June 1; v. 275; p. 199.
Refrigerating and ice-making systems and parts thereof. York Manufacturing Company. No. 131,947; June 1; v. 275; p. 199.
Silk piece goods. Sunset Silk Mills. No. 131,945; June 1; v. 275; p. 199.
Veil, Elastic. Ludewig & Co. No. 131,943; June 1; v. 275; p. 199.
Webbing, Cotton. American Textile Banding Company. No. 131,930; June 1; v. 275; p. 199.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Adhesives. Dewey & Almy Chemical Company. No. 130,363; June 1; v. 275; p. 193.
Aggregate for use in preparing concrete. American Aggregate Company. No. 128,814; June 1; v. 275; p. 186.
Air-compressors, bucket elevators and loaders, cranes, &c. Allied Machinery Company of America. No. 124,251; June 1; v. 275; p. 178.
Automobiles. The Baker R & L Company. No. 119,544; June 1; v. 275; p. 175.
Automobiles. Jordan Motor Car Co. No. 117,051; June 1; v. 275; p. 174.
Automobiles. The Morris Adler Company. No. 125,869; June 1; v. 275; p. 179.
Automobiles, Ignition systems, electric-lighting systems, and magnetos for. The Cleveland Ignition Company. No. 127,424; June 1; v. 275; p. 182.
Bags, suitcases, portfolios, purses, &c., Shopping-. Tiffany & Company. No. 128,225; June 1; v. 275; p. 185.
Baked goods. Ward Brothers Company. No. 127,492; June 1; v. 275; p. 183.
Banjos, mandolins, guitars, and ukulele-banjos. Lyon & Healy. No. 129,330; June 1; v. 275; p. 190.
Barley, buckwheat, cornmeal, wheat and rye flour, &c. Finley Acker Co. No. 130,256; June 1; v. 275; p. 192.
Batteries, Electric. Acorn Battery Company. No. 125,144; June 1; v. 275; p. 178.
Bedspreads, comfortables, and blankets. Mutual Trading Company. No. 110,011; June 1; v. 275; p. 168.
Beverage, Cereal malt. Suffolk Brewing Company. No. 127,704; June 1; v. 275; p. 183.
Beverage, Cereal malt. Suffolk Brewing Company. No. 127,786; June 1; v. 275; p. 183.
Beverage, Non-alcoholic. Lash's Bitters Co. No. 127,924; June 1; v. 275; p. 184.
Boot drivers and awls, machinery-springs. Morris & Yeomans. No. 116,889; June 1; v. 275; p. 174.
Boots and shoes, Leather. Kimball & Sherman Company. No. 128,308; June 1; v. 275; p. 185.
Boots and shoes, Leather. Merchants Trade Association Company. No. 129,272; June 1; v. 275; p. 188.
Boots, shoes, slippers, and sandals. J. H. Kelleher. No. 128,446; June 1; v. 275; p. 185.
Bread. A. J. Lawton. No. 131,077; June 1; v. 275; p. 197.
Bricks, black-lead for polishing, carborundum, &c., Bath-. Chelsea Engineering Sales Corporation. No. 130,210; June 1; v. 275; p. 192.
Brushes, House, hat, sink, cuspidor, &c. A. J. Neuberger. No. 127,146; June 1; v. 275; p. 181.
Buckets and bins, Wood, fiber, and canvas hand-. Allied Machinery Company of America. No. 124,245; June 1; v. 275; p. 177.
Cake. Perfection Biscuit Company. No. 130,055; June 1; v. 275; p. 192.
Cake mixture, Prepared. E. C. Gatlin Company. No. 128,775; June 1; v. 275; p. 186.
Candies. Schutter-Johnson Candy Co. No. 130,993; June 1; v. 275; p. 197.
Candies. Tiffin Products, Inc. No. 124,673; June 1; v. 275; p. 178.
Candy. Cardinet Candy Co. No. 131,145; June 1; v. 275; p. 198.
Candy. The Catawba Candy Co. Nos. 130,716–18; June 1; v. 275; p. 195.
Candy. The Catawba Candy Co. No. 130,797; June 1; v. 275; p. 196.
Candy. Collins-Hencke Candy Co. No. 130,719; June 1; v. 275; p. 196.
Candy. Embee Distributing Company. No. 130,958; June 1; v. 275; p. 196.
Candy. Huggins Candy Co. No. 130,833; June 1; v. 275; p. 196.
Candy. Reese & Company. No. 130,919; June 1; v. 275; p. 196.
Candy. C. Fred Regennas & Sons Company. No. 131,041; June 1; v. 275; p. 197.
Candy. Samoset Chocolates Company. Nos. 130,433–7; June 1; v. 275; pp. 193–4.
Candy. Samoset Chocolates Company. Nos. 130,442–6; June 1; v. 275; p. 194.
Candy. Sioux Candy Co. No. 130,624; June 1; v. 275; p. 195.
Candy, Chocolate. The W. D. Buchanan Co. No. 130,573; June 1; v. 275; p. 195.
Canned fruits. Kaual Fruit & Land Co. No. 130,599; June 1; v. 275; p. 195.
Canned fruits and vegetables. Beterpack Canning Co. No. 131,101; June 1; v. 275; p. 197.
Canned vegetables. Beardstown Grocer Co. No. 130,569; June 1; v. 275; p. 194.
Cards for playing games, Sets of. C. Britton. No. 128,877; June 1; v. 275; p. 187.
Cars and carts for material-handling, trailers, hand-trucks, &c. Allied Machinery Company of America. No. 124,250; June 1; v. 275; p. 177.
Cheese, Brick. H. R. Moldenhauer. No. 125,396; June 1; v. 275; p. 179.
Cleaning compound. E. M. Hickey. No. 102,864; June 1; v. 275; p. 167.
Cleaning-polish for furniture, &c. B. H. Arnheim. No. 126,439; June 1; v. 275; p. 180.
Cleansing, polishing, and burnishing the surfaces of metal and glass, Compounds used for. A. W. Richards. No. 128,521; June 1; v. 275; p. 185.
Coffee. Fargo Mercantile Co. No. 130,585; June 1; v. 275; p. 195.
Coffee. M. Rosenthal. No. 130,619; June 1; v. 275; p. 195.
Coffee substitute. R. Holman. No. 130,595; June 1; v. 275; p. 195.
Combs, Celluloid. The E. A. Bliss Company. No. 129,166; June 1; v. 275; p. 188.
Corsets. Byrne & Hammer Dry Goods Co. No. 122,466; June 1; v. 275; p. 176.
Cotton and silk piece goods. Commercial Shirt Company. No. 126,896; June 1; v. 275; p. 180.
Cultivators and separate parts for same. International Harvester Company. No. 131,112; June 1; v. 275; p. 197.
Desserts, Table-. The Berdan Company. No. 130,796; June 1; v. 275; p. 196.
Dolls. Josephine Janes Co. No. 129,895; June 1; v. 275; p. 192.
Dolls. M. M. Meldram. No. 128,397; June 1; v. 275; p. 185.
Eggs. Debow & Co. No. 129,454; June 1; v. 275; p. 190.
Electric batteries and flash-lights, dry cells, &c. National Carbon Company. No. 126,969; June 1; v. 275; p. 181.
Electric-lighting fixtures and electric lamps. Edward Miller & Co. No. 127,457; June 1; v. 275; p. 183.
Electric-lighting plants and parts thereof, Unitary. H. M. Whitman. No. 130,123; June 1; v. 275; p. 192.
Electric motors and bases, frames, &c. The Van Dorn Electric Tool Company. No. 129,360; June 1; v. 275; p. 190.
Electric motors, switches, cut-outs, &c. The Burnett-Larsh Manufacturing Company. No. 127,111; June 1; v. 275; p. 181.
Engines, Additional air-preheaters for internal-combustion. J. R. Wright. No. 131,139; June 1; v. 275; p. 198.
Fabrics, Textile. A. I. Ludwig. No. 127,297; June 1; v. 275; p. 182.
Factory and other buildings and parts thereof, Standard. The Austin Company. No. 115,687; June 1; v. 275; p. 173.
Feeds for horses, cattle, hogs, &c., Mixed. Donmeyer, Gardner Co. No. 129,490; June 1; v. 275; p. 191.
Filters, Gasolene-. Visible Gasoline Filter Company. No. 126,600; June 1; v. 275; p. 180.
Fire-doors. Minnesota Roofing & Cornice Works. No. 131,531; June 1; v. 275; p. 198.
Fireworks. Unexcelled Manufacturing Company. No. 121,952; June 1; v. 275; p. 175.
Fishing-lines. The Horton Manufacturing Co. No. 128,551; June 1; v. 275; p. 186.
Flash-light cases and electric batteries. United States Electric Manufacturing Corporation. No. 129,102; June 1; v. 275; p. 187.
Flour, Wheat-. Gladney Milling Company. No. 123,979; June 1; v. 275; p. 177.
Food used in the feeding of infants, Prepared milk. The Babies Dispensary & Hospital of Cleveland. No. 130,315; June 1; v. 275; p. 193.
Games. Ember Distributing Company. No. 130,411; June 1; v. 275; p. 193.
Garters. The Thos. P. Taylor Company. No. 127,159; June 1; v. 275; p. 181.
Ginger-ale. Gold Fish Ginger Ale Company. No. 128,839; June 1; v. 275; p. 186.
Ginger-ale, ginger-beer, sarsaparilla, &c. J. J. Reardon. No. 127,869; June 1; v. 275; p. 183.

Ginger-ale, grape-punch, root-beer, &c. Henry-Brown Co. No. 128,828; June 1; v. 275; p. 186.
Ginger-ale, lemon-soda, cream-soda, birch-beer, &c. Tiffin Products, Inc. No. 124,368; June 1; v. 275; p. 178.
Graphite, soapstone, and mica. St. Louis Rubber Cement Co. No. 125,256; June 1; v. 275; p. 179.
Gratings for floorings and staircases, Metal. Irving Iron Works Company. No. 129,721; June 1; v. 275; p. 191.
Grease-eradicators. Hofstra Manufacturing Company. No. 123,981; June 1; v. 275; p. 177.
Hair-nets, Ladies'. R. Ginsberg & Bro. No. 124,047; June 1; v. 275; p. 177.
Hats, Women's. B. B. Brewer. No. 123,609; June 1; v. 275; p. 176.
Hosiery. Cooper Underwear Company. No. 127,357; June 1; v. 275; p. 182.
Hosiery and underwear. S. O. E. Dryfoos. No. 119,795; June 1; v. 275; p. 175.
Hosiery. I. Fisher Son & Co. No. 126,018; June 1; v. 275; p. 179.
Impression-trays, agate spatulas, draw-plates, &c. Blue Island Specialty Co. No. 117,831; June 1; v. 275; p. 174.
Inhalers. Frederick Heilman Company. No. 128,602; June 1; v. 275; p. 186.
Ink in powdered form, Writing-. J. F. Soby. No. 128,529; June 1; v. 275; p. 185.
Inks, Printing.- J. M. Huber. No. 123,850; June 1; v. 275; p. 177.
Knit cloth in the piece, Jersey. Wilkin & Adler. No. 129,768; June 1; v. 275; p. 191.
Knit napkins, Women's. Palmyra Knitting Company. No. 126,136; June 1; v. 275; p. 179.
Knitted fabrics of wool. Specialty Knit Goods Manufacturing Co. No. 127,451; June 1; v. 275; p. 182.
Knitted underwear, both one and two piece. Everett Knitting Works. No. 126,277; June 1; v. 275; p. 180.
Knitted underwear. Ford Manufacturing Co. No. 127,361; June 1; v. 275; p. 182.
Lamps and parts and accessories thereof, Oil-. Silver & Co. No. 122,449; June 1; v. 275; p. 176.
Lard. Jacob Dold Packing Co. No. 131,154; June 1; v. 275; p. 198.
Laundry compounds. R. Cleary. No. 123,533; June 1; v. 275; p. 176.
Leather-dressing for shoes. M. Sita. No. 116,853; June 1; v. 275; p. 174.
Leather-dressings. Keiner & Pohl Company. No. 130,708; June 1; v. 275; p. 195.
Lemon tru-fru, birch-beer, coco-cream, &c. F. Hoffman & Sons. No. 120,644; June 1; v. 275; p. 175.
Lubricant, Mining-machine. The United States Graphite Company. No. 116,730; June 1; v. 275; p. 174.
Macaronic foods. United States Macaroni Company. No. 107,208; June 1; v. 275; p. 167.
Middy-blouses. L. Gidding & Co. No. 119,942; June 1; v. 275; p. 175.
Milk powder. The International Company. No. 130,594; June 1; v. 275; p. 195.
Mirrors, Automobile-. J. J. Kunzemann. No. 127,092; June 1; v. 275; p. 181.
Musical instruments, particularly phonograph cabinets and horns, Parts of. The Cardinal Cabinet Company. No. 128,042; June 1; v. 275; p. 184.
Nets, veilings, &c., Dress and hair-. Jennings Lace Works Corporation. No. 129,146; June 1; v. 275; p. 188.
Oil compound used as a pan, &c., Grease. The Bakers Products Company. No. 130,748; June 1; v. 275; p. 196.
Oil for use in making cores in foundries. A. Olmstead. No. 129,278; June 1; v. 275; p. 188.
Oleomargarin. Middlesex County Creamery Co. No. 108,996; June 1; v. 275; p. 167.
Overalls for children. E. A. Hill. No. 115,730; June 1; v. 275; p. 174.
Overalls, overall shirts, jackets, and pants. Bell Manufacturing Company. No. 129,000; June 1; v. 275; p. 187.
Pads, Forehead-. Radlor Co. Ltd. of London. No. 125,244; June 1; v. 275; p. 178.
Paints, dry colors, asphalt paint, paint-oil, &c., Ready-mixed. Pruett-Schaffer Chemical Company. No. 123,711; June 1; v. 275; p. 177.
Paints, varnishes, floor-wax, putty, &c. Lincoln Paint & Color Co. No. 127,219; June 1; v. 275; p. 182.
Paper and envelops, Writing-. National Papeterie Company. No. 109,699; June 1; v. 275; p. 167.
Paper bag, Hand. W. H. Deubener. No. 115,833; June 1; v. 275; p. 174.
Paper bags. Victory Bag & Paper Co. No. 113,731; June 1; v. 275; p. 173.
Paper for writing and printing purposes, and wrapping paper, Bond-. The Chatfield & Woods Co. No. 113,157; June 1; v. 275; p. 198.
Paper, Printing and writing. Henry Lindenmeyer & Sons. No. 128,061; June 1; v. 275; p. 194.
Paper, Proofing-. Ware Coated Paper Company. No. 131,002; June 1; v. 275; p. 197.
Paper-pulp. The Procter and Gamble Company. No. 128,275; June 1; v. 275; p. 185.
Paper-towels. M. Levy. No. 131,114; June 1; v. 275; p. 198.
Papers, and inked ribbons, Carbon-. H. G. Tilleman. No. 127,983; June 1; v. 275; p. 184.
Papers, Writing, printing, blotting, and wrapping. Parsons & Whittemore. No. 126,422; June 1; v. 275; p. 180.
Pencils, Lead-. American Lead Pencil Company. Nos. 130,503–6; June 1; v. 275; p. 194.
Phonographs. Cirola Phonograph Corporation. No. 123,970; June 1; v. 275; p. 177.
Phonographs and phonograph-cabinets. Hartman Furniture & Carpet Co. No. 125,180; June 1; v. 275; p. 178.
Phonographs and phonograph-cabinets. The Western News Company. No. 121,550; June 1; v. 275; p. 175.
Phonographs and phonograph-records. Emerson Phonograph Company. No. 111,960; June 1; v. 275; p. 173.
Phonographs or talking-machines, records, cabinets, and needles. Belclear Phonograph Corporation. No. 129,776; June 1; v. 275; p. 191.
Pianos. The Chute & Butler Co. No. 128,043; June 1; v. 275; p. 184.
Pianos, Electrically-operated vacuum-creating apparatus for player-. Piano Motors Corporation. No. 129,567; June 1; v. 275; p. 191.
Pipe-bits, cigar and cigarette holders, Hard-rubber. American Hard Rubber Company. No. 127,990; June 1; v. 275; p. 184.
Plows and cane-mills and separate parts for same. Chattanooga Plow Company. No. 131,104; June 1; v. 275; p. 197.
Polishes for cleaning, preserving, and polishing leather and enameled goods. E. Brown & Son (Blacking & Boot Polish Manufacturers) Limited. No. 130,265; June 1; v. 275; p. 193.
Polishing preparations for automobiles, carriages, coaches, floors, &c. Hawk-Eye Mfg. Company. No. 127,047; June 1; v. 275; p. 181.
Powder-puff. L. R. Rose. No. 126,486; June 1; v. 275; p. 180.
Preparation for improving certain soils and treating the roots of fruit, shade-trees, and shrubbery. J. D. MacGregor. No. 125,116; June 1; v. 275; p. 178.
Preparation for shaving and skin-healing purposes. The Napco Corporation. No. 129,641; June 1; v. 275; p. 191.
Reamers. The Kelly Reamer Company. No. 130,834; June 1; v. 275; p. 196.
Refrigerators. The Alaska Refrigerator Company. No. 127,881; June 1; v. 275; p. 183.
Rice. W. T. Wellsch & Co. Nos. 110,973–111,030; June 1; v. 275; pp. 168–72.
Rolls and candles, Chocolate. Jos. B. Murphy Sons. No. 131,036; June 1; v. 275; p. 197.
Rosin. Rosin & Turpentine Export Company. Nos. 129,280–6; June 1; v. 275; pp. 188–9.
Rosin. Rosin & Turpentine Export Company. Nos. 129,346–50; June 1; v. 275; p. 190.
Rubber heels. The Lorain Rubber Heel Company. No. 128,848; June 1; v. 275; p. 186.
Shellac, Gums-. Automotive Supply Company. No. 128,195; June 1; v. 275; p. 185.
Shoes. Lord & Taylor. No. 129,192; June 1; v. 275; p. 188.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 129,311–12; June 1; v. 275; p. 189.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 129,314–16; June 1; v. 275; p. 189.
Sleds and wheeled coasters, Children's. A. W. Anderson. No. 128,131; June 1; v. 275; p. 184.
Snap-fasteners. The American Pin Company. No. 127,570; June 1; v. 275; p. 183.
Soap. H. Clarke & Sons, No. 122,040; June 1; v. 275; p. 175.
Soap. Lange Soap Co. No. 122,127; June 1; v. 275; p. 176.
Soap. The Mills Brothers Company. No. 126,187; June 1; v. 275; p. 180.
Soap. The Procter and Gamble Company. No. 129,745; June 1; v. 275; p. 191.
Soap. Royal Packing Co. No. 130,620; June 1; v. 275; p. 195.
Soap. M. W. M. Soap Co. No. 130,309; June 1; v. 275; p. 193.
Soap and soap chips. Pacific Coast Borax Co. No. 129,795; June 1; v. 275; p. 191.
Soap flakes. Chas W. Young & Co. No. 123,047; June 1; v. 275; p. 176.
Soap flakes. S. I. Welsher. No. 125,447; June 1; v. 275; p. 179.
Soap, Liquid. The Hexter Stewart Corporation Company. No. 113,468; June 1; v. 275; p. 173.
Soap, shaving-stocks, cream, and powder. American Safetee Soap Corporation. No. 126,983; June 1; v. 275; p. 181.
Soap, sweeping compound, metal-polish, &c., Liquid. Rochester Germicide Company. No. 123,079; June 1; v. 275; p. 176.
Soaps. The Omega Chemical Company. No. 126,695; June 1; v. 275; p. 180.
Stockings, Boys'. Imperial Hosiery Co. No. 129,013; June 1; v. 275; p. 187.
Stove-fronts and parts thereof, Knockdown. Detroit Show Case Company. No. 128,598; June 1; v. 275; p. 186.
Stoves and toasters, Electric. Red Top Electric Company. No. 127,605; June 1; v. 275; p. 183.

Stoves, furnaces, and ranges, and parts, Heating and Cooking. Detroit Stove Works. No. 126,763; June 1; v. 275; p. 180.
Suits, Children's overall play. The Maryland Company. No. 129,239; June 1; v. 275; p. 188.
Suits, Children's sleeping-. R. H. Macy & Co. No. 121,005; June 1; v. 275; p. 175.
Tanks, Oil-. Hammond Iron Works. No. 127,757; June 1; v. 275; p. 183.
Tape for binding packages, Metal. Waldes & Co., Inc. No. 129,481; June 1; v. 275; p. 190.
Tea. W. R. Grace & Co. No. 126,413; June 1; v. 275; p. 180.
Thread and yarn, Silk. A. H. Rice Company. Nos. 131,188–9; June 1; v. 275; p. 198.
Tires and tubes, Automobile. B. B. Piper. No. 114,432; June 1; v. 275; p. 173.
Toothbrushes. Andersen, Meyer & Co. No. 128,070; June 1; v. 275; p. 184.
Toothbrushes. C. L. Card. No. 129,125; June 1; v. 275; p. 187.
Towers for general use, concrete forms, and form-clamps, Steel. Allied Machinery Company of America. No. 124,252; June 1; v. 275; p. 178.
Toy animals. M. Waterman. No. 130,180; June 1; v. 275; p. 192.
Toy hydro- and aero-planes. Great Northern Toy Co. No. 127,212; June 1; v. 275; p. 182.
Tractors, Fageol Motors Company. No. 130,813; June 1; v. 275; p. 196.
Trusses. L. A. Smith. No. 119,870; June 1; v. 275; p. 175.
Typewriters, typewriter copy-holders, &c., Eraser-stencils for. Wenderer-Werke, vorm Winklhofer & Jaenicke Aktiengesellschaft. No. 69,754; June 1; v. 275; p. 167.
Typewriters. P. M. Hooven. No. 131,111; June 1; v. 275; p. 197.
Undervests, storm-vests, padded and quilted vests and jackets. J. A. Rainford. No. 106,284; June 1; v. 275; p. 167.
Velocipedes, Children's. The Adjustable Sales Corporation. No. 113,135; June 1; v. 275; p. 173.
Velvet piece goods. James H. Dunham & Co. No. 129,456; June 1; v. 275; p. 190.
Ventilators for exterior use on houses and buildings. Acme Ventilator Corporation. No. 113,114; June 1; v. 275; p. 173.
Wagons. The Holt Manufacturing Company. No. 118,011; June 1; v. 275; p. 175.
Washing compounds and particularly tablets. F. Francis. No. 129,010; June 1; v. 275; p. 187.
Washing-powder. Citrus Soap Company. No. 128,542; June 1; v. 275; p. 186.
Washing-powder. F. O. Quinn. No. 130,731; June 1; v. 275; p. 196.
Watches. Laubheim Bros. No. 126,131; June 1; v. 275; p. 179.
Watches, watchcases, works, and dials. Paul Forbriger & Co. No. 129,318; June 1; v. 275; p. 189.
Waterproofing, damp-proofing, and liquid hardener for cement and cement mixtures, Liquid. Anti-Hydro Waterproofing Company. No. 125,416; June 1; v. 275; p. 179.
Waters, non-alcoholic non-cereal maltless beverages and syrup for making same, Spring, carbonated and distilled. Boonville Mineral Spring Co. No. 127,994; June 1; v. 275; p. 184.
Webs, Elastic. Faire Bros. & Co. No. 117,657; June 1; v. 275; p. 174.
Wire stitching or stapling machines and parts thereof. Boston Wire Stitcher Company. No. 131,065; June 1; v. 275; p. 197.
Woolen piece goods. Forstmann & Huffmann Co. No. 128,959; June 1; v. 275; p. 187.
Woolen piece goods. Forstmann & Huffmann Co. No. 129,834; June 1; v. 275; p. 191.
Woolen piece goods. Fortsmann & Huffmann Co. No. 129,975; June 1; v. 275; p. 192.
Worsted in the piece, Light-weight all-wool. Cohen & Ehrenberg. No. 127,897; June 1; v. 275; p. 183.

CLASSIFICATION OF PATENTS

ISSUED JUNE 1, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 6: 1,341,821
44: 1,342,110
2— 15: 1,342,168
41: 1,342,009
5— 3: 1,342,166
63: 1,342,106
74: 1,342,054
79: 1,342,032
108: 1,342,132
111: 1,341,679
116: 1,342,277
144: 1,341,716
1,342,010
1,342,188
4— 22: 1,342,016
35: 1,342,046
1,342,287
5— 14: 1,342,354
26: 1,341,714
41: 1,341,899
7— 1: 1,341,759
8— 1: 1,342,134
6: 1,341,637
19: 1,342,190
9— 17: 1,341,908
18: 1,341,752
12— 14: 1,341,732
17: 1,342,367
42: 1,341,737
50: 1,342,366
142: 1,341,746
13— 9: R. 14,874
15— 37: 1,341,916
43: 1,342,182
49: 1,341,803
1,342,211
54: 1,342,036
60: 1,342,345
16— 11: 1,341,754
73: 1,341,630
106: 1,342,237
113: 1,341,660
18— 2: 1,342,114
26: 1,341,670
47.5: 1,341,979
54: 1,341,745
55: 1,342,067
20— 68: 1,342,050
69: 1,341,632
21— 69: 1,341,703
75: 1,342,119
153: 1,342,279
189: 1,342,254
22— 76: 1,342,127
123: 1,341,938
23— 1: 1,342,024
10: 1,341,734
11: 1,342,148
22: 1,341,889
24— 3: 1,341,811
1,341,930
33: 1,341,973
61: 1,342,102
87: 1,341,684
101: 1,342,003
143: 1,341,940
194: 1,341,648
214: 1,342,161
217: 1,341,771
241: 1,341,924
248: 1,342,141
259: 1,342,048
25— 2: 1,341,798
3: 1,342,053
12.1: 1,342,208
99: 1,342,192
121: 1,342,373
27— 8: 1,342,324
28— 25: 1,341,987
29— 89: 1,341,809
98: 1,342,031
105: 1,342,055
148: 1,342,071
188: 1,341,812
30— 1: 1,342,096
1,342,097
9: 1,342,294
30— 12: 1,342,028
1,342,370
20: 1,342,292
32— 5: 1,341,736
9: 1,341,813
1,342,376
1,342,379
33— 1: 1,342,129
24: 1,341,739
75: 1,342,232
88: 1,342,335
143: 1,341,865
1,342,288
191: 1,341,757
34— 11: 1,341,655
34: 1,341,676
46: 1,341,884
35— 16: 1,341,773
36— 2: 1,341,885
31: 1,341,880
36: 1,342,291
56: 1,342,149
37— 40: 1,341,750
39— 3: 1,342,253
19: 1,342,014
80: 1,341,963
83: 1,342,227
87: 1,341,905
40— 15: 1,341,720
28: 1,342,156
1,342,223
53: 1,342,394
78: 1,341,950
86: 1,342,283
132: 1,341,960
1,342,181
155: 1,341,971
158: 1,342,248
42— 3: 1,342,358
71: 1,341,843
90: 1,342,382
43— 77: 1,342,328
81: 1,342,098
1,342,255
107: 1,341,706
45— 2: 1,341,922
13: 1,342,200
1,342,274
1,342,346
24: 1,342,396
31: 1,342,387
51: 1,341,654
78: 1,342,083
99: 1,342,350
1,342,351
118: 1,342,269
131: 1,341,988
46— 46: 1,341,985
1,342,344
45: 1,342,037
46: 1,341,860
1,342,315
53: 1,341,853
59: 1,341,628
70: 1,342,247
180: 1,342,193
48— 46: 1,342,233
61: 1,342,080
76: 1,342,056
77: 1,342,042
81: 1,342,267
1,342,268
92: 1,342,282
50— 23: 1,341,766
51— 4: 1,341,800
1,341,984
1,342,375
7: 1,341,699
1,341,799
210: 1,342,275
52— 3: 1,341,705
53— 1: 1,341,731
1,341,972
7: 1,341,748
54— 10: 1,341,715
38: 1,341,708
55— 9: 1,341,909
55— 51: 1,341,861
61: 1,341,825
83: 1,341,824
56— 32: 1,341,959
102: 1,342,369
395: 1,341,819
60— 16: 1,342,108
41: 1,342,314
44: 1,341,854
70: 1,342,177
61— 62: 1,341,949
62— 117: 1,341,744
119: 1,342,403
171: 1,342,123
63— 18: 1,342,035
64— 23: 1,342,164
25: 1,342,384
55: 1,341,968
1,342,059
62: 1,341,873
65: 1,342,101
81: 1,342,142
95: 1,342,300
65— 13: 1,341,756
66— 7: 1,342,245
67— 6: 1,341,785
111: 1,342,160
68— 10: 1,342,109
1,342,278
1,342,362
32: 1,342,004
1,342,005
69— 9.5: 1,342,120
70— 18: 1,342,075
24: 1,342,334
53: 1,341,876
1,342,157
113: 1,342,033
129: 1,341,925
1,342,151
1,342,276
132: 1,342,020
72— 16: 1,342,062
41: 1,342,404
90: 1,342,329
122: 1,342,349
73— 28: 1,341,898
74— 7: 1,342,262
13: 1,342,352
14: 1,342,019
20: 1,341,849
28: 1,341,914
33: 1,342,660
34: 1,342,195
39: 1,342,372
41: 1,341,685
1,342,170
46: 1,341,767
1,342,023
1,342,363
54: 1,341,993
1,342,249
58: 1,342,175
59: 1,342,126
78: 1,342,397
109: 1,342,380
75— 1: 1,341,774
1,341,992
17: 1,341,686
78: 1,341,890
76— 69: 1,342,327
78: 1,342,236
112: 1,341,906
77— 63: 1,341,841
78— 27: 1,341,671
83: 1,341,840
90: 1,341,839
80— 16: 1,341,891
35: 1,341,651
40: 1,342,130
44: 1,342,220
54: 1,342,264
1,342,343
81— 3: 1,341,888
53: 1,341,701
57: 1,341,700
85: 1,341,712
81— 105: 1,342,356
116: 1,342,025
82— 2: 1,341,946
41: 1,342,122
83— 26: 1,342,348
60: 1,341,874
75: 1,342,231
82: 1,342,038
85: 1,341,770
1,342,115
92: 1,341,978
84— 16: 1,342,029
121: 1,342,202
178: 1,342,180
85— 1.5: 1,342,162
24: 1,342,201
88— 1: 1,341,683
16.2: 1,341,933
17: 1,342,040
19.3: 1,342,076
24: 1,341,666
1,341,667
26: 1,341,665
90— 9: 1,341,953
58: 1,341,646
59: 1,342,300
91— 39: 1,342,212
44: 1,341,760
68: 1,341,807
92— 5: 1,341,991
54: 1,342,184
93— 13: 1,341,832
1,341,833
1,341,835
1,341,836
40: 1,341,954
94— 18: R. 14,871
41: 1,341,948
95— 1.1: 1,342,155
51: 1,341,718
63: 1,341,823
97— 10: 1,341,724
21: 1,341,804
34: 1,342,125
35: 1,342,302
42: 1,342,285
98— 22: 1,342,152
23: 1,342,066
31: 1,342,222
101— 218: 1,341,693
342: 1,342,355
349: 1,341,692
350: 1,341,691
364: 1,341,627
402: 1,342,030
414: 1,342,113
162— 32: 1,341,844
103— 10: 1,341,669
44: 1,341,846
56: 1,341,906
81: 1,342,087
93: 1,341,696
104— 7: 1,341,912
13: 1,341,944
1,341,945
91: 1,341,906
105— 48: 1,341,961
93: 1,342,137
166: 1,341,776
1,341,777
1,341,778
134— 3: 1,341,952
1,341,779
1,341,780
135— 1: 1,342,234
239: 1,342,085
1,342,088
1,342,091
1,342,092
1,342,094
138— 9: 1,342,140
23: 1,342,238
248: 1,342,089
250: 1,342,095
139— 9: 1,342,259
29: 1,341,941
54: 1,342,272
65: 1,341,929
85: 1,341,883
106— 25: 1,342,360
107— 66: 1,342,045
109— 2: 1,342,204
110— 1: 1,341,645
22: 1,342,337
36: 1,342,026
40: 1,341,868
1,342,206
44: 1,341,923
86: 1,341,896
99: 1,341,977
105: 1,342,135
112— 61: 1,342,165
252: 1,342,150
262: 1,341,769
113— 46: 1,341,721
112: 1,341,682
116: 1,341,967
114— 0.5: 1,341,677
10: 1,342,064
65: 1,342,408
116— 31: 1,342,391
33: 1,342,044
48: 1,342,007
82: 1,342,104
119— 19: 1,342,371
53: 1,341,887
73: 1,341,919
1,341,920
128: 1,341,900
150: 1,341,989
120— 46: 1,341,850
96: 1,341,943
107: 1,341,847
121— 120: 1,341,709
122— 115: 1,342,342
123— 30: 1,341,911
45: 1,342,146
53: 1,341,838
66: 1,342,368
71: 1,342,105
98: 1,341,762
122: 1,342,159
140: 1,341,640
155— 7: 1,342,235
149: 1,342,199
169: 1,341,747
156— 19: 1,342,099
173: R. 14,869
175: 1,341,915
187.5: 1,342,205
124— 1: 1,342,357
15: 1,341,814
1,342,022
157— 1: 1,341,728
1,341,729
65: 1,342,163
85: 1,342,121
99: 1,341,723
1,342,258
158— 28: 1,341,688
57: 1,341,644
63: 1,341,797
75: 1,342,226
76: 1,342,027
88: 1,341,910
92: 1,341,642
1,341,643
160— 1: 1,342,176
162— 1: 1,342,128
164— 17.5: 1,342,008
34: 1,341,765
58: 1,342,240
62: 1,341,818
76: 1,342,210
166— 7: 1,341,755
169— 39: 1,342,203
170— 32: 1,342,318
159: 1,341,653
242: 1,342,250
171— 252: 1,342,179
309: 1,342,081
172— 179: 1,341,650
1,342,225
22: 1,341,936
32: 1,341,842
1,342,289
42: 1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,297
1,342,842
1,342,289
1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,936
1,342,297
1,342,842
1,342,289
1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,936
1,342,297
139— 85: 1,341,999
140— 71: 1,341,964
118: 1,341,895
141— 9: 1,341,717
144— 69: 1,342,261
198: 1,342,218
245: 1,342,144
309: 1,342,213
145— 15: 1,342,154
20: 1,341,820
146— 6: 1,342,207
11: 1,341,894
12: 1,342,383
14: 1,341,758
151— 17: 1,342,319
29: 1,341,741
152— 2: 1,341,789
1,342,086
5: 1,341,942
1,342,158
8: 1,341,656
1,342,339
12: 1,341,828
13: 1,341,663
16: 1,342,169
21: 1,341,877
1,341,926
1,342,118
1,342,225
1,342,936
1,342,297
1,342,842
1,342,289
1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,936
1,342,297
1,342,842
1,342,289
1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,936
1,342,297
153— 38: 1,342,263
78: 1,341,636
154— 1: 1,341,956
1,341,981
2: 1,342,185
43: 1,341,740
45.5: 1,342,198
52: 1,341,955
155— 7: 1,342,235
139: 1,341,689
156— 19: 1,342,099
23: 1,342,070
24: 1,341,742
1,342,230
36: 1,342,017
39: 1,342,298
157— 1: 1,341,728
1,341,729
1,342,295
6: 1,341,726
1,341,727
1,341,730
158— 28: 1,341,688
57: 1,341,644
63: 1,341,797
75: 1,342,226
76: 1,342,027
88: 1,341,910
92: 1,341,642
1,341,643
160— 1: 1,342,176
162— 1: 1,342,128
164— 17.5: 1,342,008
34: 1,341,765
58: 1,342,240
62: 1,341,818
76: 1,342,210
166— 7: 1,341,755
169— 39: 1,342,203
170— 32: 1,342,318
159: 1,341,653
242: 1,342,250
171— 252: 1,342,179
309: 1,342,081
172— 179: 1,341,650
1,342,225
22: 1,341,936
32: 1,341,842
1,342,289
42: 1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,936
1,342,297
1,342,842
1,342,289
1,342,271
52: 1,341,907
1,342,118
1,342,225
1,342,936
1,342,297

175— 360: 1,342,303
1,342,304
1,342,305
1,342,306
1,342,307
1,342,308
1,342,309
1,342,310
1,342,311
1,342,312
362: 1,342,209
368: 1,341,958
176— 21: 1,342,398
40: 1,341,966
177— 337: 1,341,735
1,342,049
178— 17: 1,341,998
104: 1,341,810
179— 27: 1,342,241
1,342,242
1,342,260
90: 1,341,801
100: 1,342,244
122: 1,341,997
124: 1,341,837
147: 1,341,855
176: 1,341,719
180— 4: 1,342,410
9: R. 14,868
9.1: 1,341,851
16: 1,342,139
68: 1,342,191
70: 1,342,143
84: 1,342,401
181— 26: 1,341,795
27: 1,342,284
184— 1: 1,342,365
6: 1,341,866
1,342,063
18: 1,342,273
60: 1,342,077
89: 1,341,802
187— 58: 1,341,863
1,341,864
188— 59: 1,341,830
188— 140: 1,342,381
174: 1,342,407
259: 1,342,043
189— 1: 1,342,021
51: 1,342,400
191— 38: 1,341,878
43: 1,342,034
192— 1: 1,341,673
7: 1,342,270
9: 1,341,796
10: 1,341,635
193— 1: 1,342,117
3: 1,341,697
13: 1,342,189
53: 1,342,341
194— 1: 1,341,921
9: 1,341,749
196— 25: 1,341,975
197— 27: 1,342,197
97: 1,342,186
135: 1,342,174
200— 6: 1,341,668
59: 1,341,932
67: 1,341,764
87: 1,341,867
91: 1,342,256
108: 1,341,678
132: 1,341,662
140: 1,342,317
144: 1,341,631
153: 1,342,015
156: 1,342,229
204— 5: 1,342,378
8: 1,341,790
15: 1,341,786
29: 1,341,713
1,342,068
31: 1,342,084
38: 1,342,001
58: 1,342,336
63: 1,341,939
205— 16: 1,341,986
22: 1,341,664
206— 2: 1,341,871
37: 1,342,116
206— 38: 1,341,857
46: 1,342,069
57: 1,341,974
208— 55: 1,341,725
57: 1,341,983
114: 1,342,386
138: 1,342,388
165: 1,341,768
210— 16: 1,341,913
25: 1,342,405
211— 13: 1,341,827
1,342,265
14: 1,341,848
1,342,864
24: 1,342,313
25: 1,341,922
27: 1,341,852
32: 1,341,862
37: 1,341,695
212— 125: 1,342,217
213— 67: 1,341,918
1,342,011
214— 78: 1,342,203
81: 1,341,904
215— 1: 1,341,826
53: 1,341,680
81: 1,341,897
84: 1,342,039
99: 1,342,321
217— 60: 1,342,325
64: 1,341,927
1,342,243
218— 2.1: 1,342,331
15: 1,341,763
219— 3: 1,341,808
8: 1,341,647
35: 1,341,903
1,341,994
49: 1,342,061
220— 17: 1,341,960
68: 1,341,638
94: 1,341,965
221— 23: 1,342,299
47: 1,341,652
221— 64: 1,341,951
95: 1,342,173
99: 1,341,711
123: 1,342,333
223— 21: 1,342,147
224— 2: 1,342,395
7: 1,341,722
28: 1,342,301
48: 1,341,869
228— 23: 1,342,153
29: 1,341,707
229— 3: 1,342,013
17: 1,341,893
53: 1,341,831
1,341,834
230— 11: 1,341,882
27: 1,342,338
235— 71: 1,341,962
139: 1,341,995
236— 45: 1,341,881
237— 56: 1,342,214
238— 3: 1,342,002
10: 1,342,281
179: 1,342,228
205: 1,342,065
206: 1,342,251
207: 1,342,323
216: 1,341,931
226: 1,342,377
237: 1,342,006
292: 1,342,194
333: 1,342,078
345: 1,342,196
240— 1: 1,342,330
8.5: 1,342,322
41: 1,341,674
1,342,215
61: 1,341,947
73: 1,341,681
111: 1,341,845
242— 77: 1,341,815
1,341,816
1,341,817
241— 2: 1,342,138
244— 12: 1,341,641
1,341,886
15: 1,342,145
21: 1,341,783
1,341,794
1,342,221
29: 1,342,385
31: 1,341,758
1,342,353
246— 14: 1,341,772
41: 1,341,982
181: 1,341,753
464: 1,342,332
248— 20: 1,341,935
30: 1,341,902
1,342,136
250— 11: 1,342,257
27: 1,342,399
251— 91: 1,342,051
119: 1,342,216
123: 1,341,870
252— 1,341,901
253— 28: 1,342,100
120: 1,341,859
254— 1: 1,341,856
83: 1,341,698
91: 1,342,389
131: 1,342,057
255— 23: 1,341,702
75: 1,342,406
257— 129: 1,341,784
133: 1,341,649
136: 1,341,879
259— 88: 1,341,743
261— 23: 1,342,103
44: 1,342,107
118: 1,342,167
263— 2: 1,341,928
28: 1,342,041
36: 1,341,661
46: 1,341,970
265— 42: 1,342,246
266— 5: 1,342,171
6: 1,342,112
30: 1,341,872
266— 30: 1,342,073
46: 1,342,074
267— 36: 1,341,805
50: R. 14,870
1,342,172
268— 9: 1,341,775
271— 53: 1,341,694
82: 1,342,187
1,341,639
273— 274— 10: 1,341,751
275— 2: 1,342,296
279— 81: 1,341,934
280— 5: 1,342,266
33.5: 1,342,079
281— 21: 1,341,782
283— 1: 1,341,633
1,341,634
285— 22: 1,342,286
25: 1,342,133
58: R. 14,873
187: 1,342,000
286— 7: 1,342,131
287— 19: 1,342,392
290— 31: 1,342,409
38: 1,341,658
1,341,659
1,341,660
291— 34: 1,342,316
292— 281: 1,342,361
336: 1,341,802
347: 1,341,969
1,342,058
293— 52: 1,342,402
55: 1,341,917
1,342,290
1,342,374
1,342,393
294— 68: 1,342,018
90: 1,341,957
296— 8.5: R. 14,872
92: 1,342,183
97: 1,342,347
116: 1,342,012
137: 1,341,687
299— 129: 1,342,124
305— 10: 1,341,761

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Akeley, Carl E., New York, N. Y. Mirror and backing same. No. 1,342,578; June 8; v. 275; p. 242.
Ackroyd, Harry, East Chicago, Ind. Brine-valve. No. 1,343,072; June 8; v. 275; p. 340.
Aktiebolaget Kvafveindustri. (See Holmgren, T. A. F., and Thorssell, assignors.)
Aktiebolaget Kvafveindustri. (See Thorssell, C. T., and Lundén, assignors.)
Albonesi, Charles, Dumont, N. J. Window. No. 1,342,411; June 8; v. 275; p. 209.
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,342,523. June 8; v. 275; p. 231.
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Alles, Fred W., A. Fletcher, and G. E. Hitchens, McKeesport, Pa. Gas-burner for drying ladles. No. 1,342,932; June 8; v. 275; p. 312.
Ament, Elizabeth, Brooklyn, N. Y. Condiment-holder. No. 1,342,524; June 8; v. 275; p. 231.
American Arch Company. (See Willett, Alfred H., assignor.)
American Balsa Company, The. (See Welin, Axel, assignor.)
American Hardware Corporation, The. (See Stone, Elmer B., assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Piano Company. (See Russell, Guy M., assignor.)
American Pipe Machine Company. (See Reese, James A., assignor.)
American Steel Products Co. (See Schell, Theodore, assignor.)
Anderson, August R., assignor of one-half to J. H. Knight, Kingman, Ariz. Flytrap. No. 1,342,933; June 8; v. 275; p. 312.
Anderson, Erick E., St. Louis, Mo. Wagon end-gate. No. 1,342,705; June 8; v. 275; p. 266.
Anderson, George J., and W. R. Smith, Cleveland, Ohio; said Anderson assignor to said Smith. Marking device. No. 1,343,073; June 8; v. 275; p. 340.
Anderson, George W., Benona township, Oceana county, Mich. Game apparatus. No. 1,342,884; June 8; v. 275; p. 303.
Anderson, James A., Morgan, Utah. Conveyer. No. 1,342,789; June 8; v. 275; p. 284.
Anderson, Kyle M., Echo, Oreg. Water-motor. No. 1,342,613; June 8; v. 275; p. 248.
Anderson, William W., Chicago, Ill. Combined table and ironing-board. No. 1,342,660; June 8; v. 275; p. 256.
Andes, Robert A., Maroa, Ill. Harrow-hinge. No. 1,342,614; June 8; v. 275; p. 248.
Arimchi, Rikizo, Portland, Oreg. Horseshoe. No. 1,342,615; June 8; v. 275; p. 248.
Anthony, Alfred R., Detroit, Mich. Fuel-oil burner. No. 1,342,732; June 8; v. 275; p. 271.
Armington, George A., Wickliffe, Ohio. Tractor. No. 1,342,412; June 8; v. 275; p. 209.
Armstrong, Edwin H., Paris, France. Receiving high-frequency oscillations. No. 1,342,885; June 8; v. 275; p. 303.
Armstrong, James R., Pittsburgh, Pa. Gas-meter. No. 1,342,886 June 8; v. 275; p. 303.
Arnold, George T. (See Breuckman, F. C., and Arnold.)
Arnold Print Works. (See Jones, Samuel M., assignor.)
Arnolts, Peter, Odell, Ill. Coupling for antiskid-chains. No. 1,342,616; June 8; v. 275; p. 248.
Arnott, James. Oakland, Calif. Mechanical movement. No. 1,342,887; June 8; v. 275; p. 303.
Aronson, Louis V., Newark, N. J. Pencil and igniter. No. 1,342,838; June 8; v. 275; p. 294.
Ash, Robert T. (See McGeorge, William C., assignor.)
Atkins, Earl F., Arlington, assignor to H. T. Shriver, West Orange, N. J. Filter. No. 1,342,839; June 8; v. 275; p. 294.
Atlantic Hand Brake Corporation, The. (See Richards, Willard F., assignor.)
Atlantic Hand Brake Corporation. (See Sauvage, William H., assignor.)
Atlas Powder Company. (See Given, G. C., McQuaid, and Long, assignors.)
Audible Telephone Company, The. See Birrell, William and J., assignors.)
Austin, Cyrus B., administrator. (See Austin, Raymond B.)
Austin, Herbert, Bromsgrove, England. Time-fuse for explosive shells or bombs. No. 1,342,413; June 8; v. 275; p. 209.
Austin, Raymond B., deceased, Delaware, Ohio; C. B. Austin, administrator. Ball-bearing counter. No. 1,342,733; June 8; v. 275; p. 272.
Autopticon Company. (See Mengel, William R., assignor.)
Autorino, John, Middletown, N. Y. Lubricating device for riveting-hammers. No. 1,343,104; June 8; v. 275; p. 346.
Avery, Frank C., and R. E. Thompson, San Diego, Calif. Bottom for liquid-heating vessels. No. 1,342,888; June 8; v. 275; p. 303.
Axen, John L., Detroit, Mich., assignor to National Gauge & Equipment Company, La Crosse, Wis. Device for inserting and adjusting bearings for staffs, spindles, and the like. No. 1,342,840; June 8; v. 275; p. 294.
Bach, Edward, Livingston, Mont. Automatic gate. No. 1,343,023; June 8; v. 275; p. 330.
Baits, Stuart G., and S. I. Fekete, assignors to Hudson Motor Car Company, Detroit, Mich. Tractor. No. 1,342,934; June 8; v. 275; p. 312.
Baker, George W., Maytown, and G. Williams, Wyano, Pa. Balanced piston-valve. No. 1,343,105; June 8; v. 275; p. 346.
Baker, Robert E., Bronxville, E. H. Ford, Brooklyn, and L. S. Harber, New York, assignors to Joseph Baker's Limited, New York, N. Y. Dough-feeding device. No. 1,343,184; June 8; v. 275; p. 361.
Baker's, Joseph, Limited. (See Baker, R. E., Ford, and Harber, assignors.)
Bancroft, Wilfred, Slatersville, R. I. Method and means for treating light-weight fabrics. No. 1,342,935; June 8; v. 275; p. 313.
Banse, Robert J., Philadelphia, Pa. Paper-hanger machine. No. 1,343,106; June 8; v. 275; p. 346.
Baráth, Bertalan, Akron, Ohio. Hydraulic washing-machine. No. 1,343,107; June 8; v. 275; p. 346.
Barber-Colman Company. (See Colman, H. D., Peterson, and Parker, assignors.)
Barber-Colman Company. (See Sinderson, John, assignor.)
Barber, John W., Newton, Mass. Coupling or clutch. No. 1,342,936; June 8; v. 275; p. 313.
Barber, William J., assignor, by mesne assignments, to The Kline Company, Cleveland, Ohio. Gas-burner. No. 1,342,617; June 8; v. 275; p. 248.
Barbey, Francis A., *et al.* (See McManama, John W., assignor.)
Bark, Arnold P., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Lifting-cylinder valve for forging-presses. No. 1,343,024; June 8; v. 275; p. 330.
Barnett, William A., Lincoln, Nebr. Attachment for garment-turning machines. No. 1,342,937; June 8; v. 275; p. 313.
Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Long-base single-observer range-finder. No. 1,343,025; June 8; v. 275; p. 330.
Barthez, Alfred H., Alger-Belcourt, Algeria. Water-distributer. No. 1,342,734; June 8; v. 275; p. 272.
Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. Rotary transformer. No. 1,343,026; June 8; v. 275; p. 330.
Bashara, Samuel E., Houston, Tex. Well-cleaner. No. 1,342,618; June 8; v. 275; p. 248.
Basil, Joseph, and F. Girardi, Detroit, Mich. Trolley-signal. No. 1,342,579; June 8; v. 275; p. 242.
Bassick Manufacturing Company, The. (See Fesler, Andrew, assignor.)
Bastian, Charles L., Chicago, Ill. Hand-operated fire-extinguisher. No. 1,342,580; June 8; v. 275; p. 242.
Batson, William G., Los Angeles, Calif. Sanitary cuspidor-bracket. No. 1,342,889; June 8; v. 275; p. 303.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Feed-water heater. No. 1,342,841; June 8; v. 275; p. 294.
Bayer, Charles H. (See Popper, I. C., and Bayer.)
Betchel, George W., Spokane, Wash. Swimming appliance. No. 1,342,619; June 8; v. 275; p. 249.
Beck, Ellis L., Manor, Pa. Illuminating attachment for telescopes. No. 1,343,074; June 8; v. 275; p. 340.
Beck, Norman F., Kokomo, Ind. Shock-absorber. No. 1,343,027; June 8; v. 275; p. 331.
Becker, Edmund, administrator. (See Becker, Joseph.)

Becker, Joseph, deceased, Washington, D. C.; E. Becker, administrator. Copying or enlarging camera. No. 1,342,735; June 8; v. 275; p. 272.
Behan, Charles D., Stigler, Okla. Well-bucket. No. 1,342,414; June 8; v. 275; p. 209.
Beltner, George L., Bridgeport, Conn. Joint. No. 1,342,979; June 8; v. 275; p. 321.
Belt Grip Pulley Company. (See Finch, Albert E., assignor.)
Benedict, Charles L., Toronto, Ontario, Canada. Envelop. No. 1,343,075; June 8, v. 275; p. 340.
Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributing machine. No. 1,342,415; June 8; v. 275; p. 210.
Benton, George E., East Hampton, N. Y. Letter-box-closure operator. No. 1,342,890; June 8; v. 275; p. 304.
Bergh, Theodore J., New York, N. Y. Web-tension brake mechanism for printing-presses. No. 1,342,525; June 8; v. 275; p. 231.
Beremand, Preston G., Bay City, Mich. Differential and driving mechanism. No. 1,342,938; June 8; v. 275; p. 313.
Berg, Olav, *et al.* (See Koch, George, assignor.)
Bergius, Friedrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydrogenating carbon compounds. No. 1,342,790; June 8; v. 275; p. 284.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Quick-acting frame-clamping machine. No. 1,342,891; June 8; v. 275; p. 304.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Miter-frame clamp. No. 1,342,892; June 8; v. 275; p. 304.
Bethlehem Steel Company. (See Sullivan, F. A., and Lukens, assignors.)
Biedenkopf, Edward J. (See Johnson, L. D., and Biedenkopf.)
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,028; June 8; v. 275; p. 331.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,029; June 8; v. 275; p. 331.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,030; June 8; v. 275; p. 331.
Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
Bijur Motor Appliance Company. (See Woolsson, Lionel M., assignor.)
Billington, John E., Broadheath, assignor to Linotype and Machinery Limited, London, England. Magazine of typographical composing and casting machines. No. 1,342,980; June 8; v. 275; p. 321.
Birrell, James. (See Birrell, William, and J.)
Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,342,581; June 8; v. 275; p. 243.
Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,342,582; June 8; v. 275; p. 243.
Bittner, Emil R., Victoria, Tex. Liquid-fuel burner. No. 1,342,526; June 8; v. 275; p. 231.
Blache, Hans H., Hellerup, near Copenhagen, Denmark. Bed for vertical internal-combustion engines. No. 1,342,939; June 8; v. 275; p. 313.
Blackstone Manufacturing Company. (See More, Glenn, assignor.)
Bleach Process Company. (See Wheeler, Frank G., assignor.)
Bleecker, George W., *et al.*, trustees. (See Goodwin, Charles, assignor.)
Block, John F., Knoxville, Ill. Hog catcher and turner. No. 1,342,893; June 8; v. 275; p. 304.
Bluege, Adam, Chicago, Ill. Bundle or package tying machine. No. 1,342,981; June 8; v. 275; p. 321.
Bodman, Walter L., Bromsgrove, England. Tractor. No. 1,342,791; June 8; v. 275; p. 284.
Boehck, William E., assignor to Revolvator Company, Jersey City, N. J. Tiering-machine. No. 1,342,982; June 8; v. 275; p. 321.
Booth, James, Philadelphia, Pa. Machine for covering wire with fibrous material. No. 1,343,076; June 8; v. 275; p. 340.
Borbeck, Martin, assignor to Houston Fountain Pen Company, Sioux City, Iowa. Fountain-pen. No. 1,342,736; June 8; v. 275; p. 272.
Borbeck, Martin O., Sioux City, Iowa. Lead-pencil. No. 1,342,416; June 8; v. 275; p. 210.
Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Mounting for dynamo-brushes. No. 1,342,583; June 8; v. 275; p. 243.
Bossu, Pierre Neuilly-sur-Seine, France. Gear-coupling. No. 1,343,031; June 8; v. 275; p. 331.
Boulton, George, and G. J. Gorsuch, Rochester, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Seam-ironing machine. No. 1,342,417; June 8; v. 275; p. 210.
Bowman, Edwin L., Gardner, assignor to C. A. Schmitz, West Medford, Mass. Puzzle. No. 1,342,706; June 8; v. 275; p. 266.
Boyd, William J. (See Fleckl, H., and Boyd.)
Bradford, George M., and J. E. Broadhead, Bay City, Mich. Recovering by-products from waste liquors. No. 1,342,737; June 8; v. 275; p. 272.
Bradley, Thomas. (See McDowell, Albert, assignor.)
Bradshaw, Grant D., Pittsburgh, Pa. Gas-valve. No. 1,342,620; June 8; v. 275; p. 249.
Brahtz, John H. A., St. Paul, Minn. Grain-elevator. No. 1,342,418; June 8; v. 275; p. 210.
Breen, Michael J., Louisville, Ky. Tool-holder. No. 1,342,983; June 8; v. 275; p. 322.
Brenner, Lupu W., Detroit, Mich. Puppet-valve. No. 1,342,419; June 8; v. 275; p. 211.
Breuckman, Franklin C., and G. T. Arnold, Mackinac Island, Mich. Carriage-return mechanism for typewriters. No. 1,342,940; June 8; v. 275; p. 313.
Bridgwater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,941; June 8; v. 275; p. 314.
British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)
Broadhead, James E. (See Bradford, G. M., and Broadhead.)
Brock, Frank P. (See Redman, L. V., Welth, and Brock.)
Bronstein, Jesse B., and C. E. Waller, Allentown, Pa., assignors to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. No. 1,343,077; June 8; v. 275; p. 341.
Brosch, Charles D., Duquoin, Ill. Guard for pick-handles. No. 1,342,495; June 8; v. 275; p. 225.
Brown & Bigelow. (See Harris, Blaine H., assignor.)
Brown, Harold, assignor to Reynolds Engineering Company, Moline, Ill. Machine for cutting strips of cloth. No. 1,342,621; June 8; v. 275; p. 249.
Brumfield, James H., assignor of one-half to E. C. Ferrell, Armor, W. Va. Rail-spike. No. 1,342,661; June 8; v. 275; p. 257.
Brush, Howard R. (See Spohr, John, assignor.)
Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel. No. 1,342,622; May 8; v. 275; p. 249.
Buchanan, Isaac W. P., Lebanon, Tenn. Sterilizing apparatus. No. 1,343,108; June 8; v. 275; p. 347.
Buckheim, Max L., Brooklyn, N. Y. Pocket accounting device. No. 1,342,707; June 8; v. 275; p. 266.
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Illuminating apparatus. No. 1,342,894; June 8; v. 275; p. 305.
Bull, Anders, Chicago, Ill. Acoustic signaling method. No. 1,342,584; June 8; v. 275; p. 243.
Bunn, Percy L. (See Thompson, H. E., and Bunn.)
Burke, James P., Struthers, Ohio. Fastener. No. 1,342,738; June 8; v. 275; p. 272.
Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)
Buss, Charles and I. C. W., Pittsburgh, Pa. Railway-tie. No. 1,342,420; June 8; v. 275; p. 211.
Buss, Ivan C. W. (See Buss, Charles and I. C. W.)
Byerly, Dennis A., Terre Haute, Ind. Electric-light switch. No. 1,343,109; June 8; v. 275; p. 347.
Bygrave, Leonard C., and T. M. Inman, assignors to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,342,792; June 8; v. 275; p. 284.
Cadgene, Ernest, *et al.* (See Koch, George, assignor.)
Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
Cahill, John, Norfolk, Va. Venetian blind. No. 1,342,527; June 8; v. 275; p. 231.
Caldes, Constantine, Jersey City, N. J. Shoe-shining machine. No. 1,343,032; June 8; v. 275; p. 332.
Callahan, John F., deceased, Scotia, N. Y.; Sarah D. Callahan administratrix. Hand-truck. No. 1,342,585; June 8; v. 275; p. 243.
Callahan, Sarah D., administratrix. (See Callahan, John F.)
Callen, Edward D., Greenville, Miss. Excavator. No. 1,342,895; June 8; v. 275; p. 305.
Camp, James H., Ravenswood, W. Va. Combined advance-discount voucher-check, order, and commercial letter. No. 1,343,110; June 8; v. 275; p. 347.
Campbell, James C., New York, N. Y. Vacuum pneumatic hammer. No. 1,342,984; June 8; v. 275; p. 322.
Campbell, John A., Carbondale, Ill. Door-spring. No. 1,343,033; June 8; v. 275; p. 332.
Carroll, John D., assignor to Turbo Rotary Engine Co., Evansville, Ind. Rotary engine. No. 1,342,496; June 8; v. 275; p. 225.
Carter, Martin E., Philadelphia, Pa. Strainer for sugar juice. No. 1,343,078; June 8; v. 275; p. 341.
Case, Theodore W., Scipio, N. Y. Resistance element. No. 1,342,842; June 8; v. 275; p. 294.
Cash, A. W., Co. (See Cash, Arthur W., assignor.)
Cash, Arthur W., assignor to A. W. Cash Co., Decatur, Ill. Pressure and vacuum relief. No. 1,342,985; June 8; v. 275; p. 322.
Cash Safety Window Company. (See Hecht, Joseph, assignor.)

Cassca, Erwin, Gloversville, N. Y. Sound-modifying means. No. 1,342,662; June 8; v. 275; p. 257.
Cassca, Erwin, San Francisco, Calif. Sound-box for phonographs or the like. No. 1,342,663; June 8; v. 275; p. 257.
Castner, William H., Seattle, Wash., assignor to Road-A-Meter Company. Road-indicating log. No. 1,342,793; June 8; v. 275; p. 285.
Cater, William H., Chicago, Ill. Well-screen. No. 1,342,986; June 8; v. 275; p. 322.
Cattaneo, Giustino, Milan, Italy. Cooling arrangement for exhaust-valves of internal-combustion engines. No. 1,343,111; June 8; v. 275; p. 347.
Charrier, Marc F., Akron, Ohio. Translating-chart. No. 1,343,112; June 8; v. 275; p. 347.
Chase, William J., Bellingham, Wash. End extension to automobile-windshields. No. 1,342,794; June 8; v. 275; p. 285.
Chancellor, William H., Strong, Ark. Cotton-harvester. No. 1,342,528; June 8; v. 275; p. 232.
Chapman, James, Rock Ferry, Birkenhead, England. Air-cooled sparking plug. No. 1,342,421; June 8; v. 275; p. 211.
Charland, George J., Sandpoint, Idaho. Spring applier and remover. No. 1,342,529; June 8; v. 275; p. 232.
Charles, Fernand M., Iver Heath, England. Construction of bodies of motor and other vehicles. No. 1,342,664; June 8; v. 275; p. 257.
Chase, Charles I. (See Chase, Ray H., assignor.)
Chase, Ray H., assignor of one-third to C. I. Chase, Alexandria, S. D. Internal-combustion engine. No. 1,342,422; June 8; v. 275; p. 211.
Cheeseman, Lewis, Hatfield, Mass. Germicide and insecticide. No. 1,343,034; June 8; v. 275; p. 332.
Chemical Foundation, The. (See Bergius, Frederick, assignor.)
Chemical Foundation, The. (See Rausch, Carl A., assignor.)
Chemical Foundation, The. (See Schmidt, Karl, assignor.)
Chemical Foundation, The. (See Vögler, Albert, assignor.)
Chemical Foundation, The. (See Voiz, Otto, assignor.)
Chicago-Cleveland Car Roofing Co. (See Russell, Thomas N., assignor.)
Chicago Pottery Company. (See Clifford, F. J., and Perry, assignors.)
Chimino, Mike, Batavia, N. Y. Motorcycle-top. No. 1,342,987; June 8; v. 275; p. 322.
Christman, Anton G., and C. K. Koepp, Milwaukee, Wis. Paint composition. No. 1,342,497; June 8; v. 275; p. 225.
Cigar Machine Corporation of America, The. (See Gindrat, Louis R., assignor.)
Citizens Savings and Trust Company, The, operating trustee. (See Melanowski, Leo, assignor.)
Clark, Bertha, Brooklyn, N. Y. Waistband. No. 1,343,035; June 8; v. 275; p. 332.
Clark, Edgar H. (See Lundell, A. E., and Clark.)
Clark, Lafayette D., Waterville, Me. Nursing-bottle attachment. No. 1,343,113; June 8; v. 275; p. 348.
Clayberg, Clarence C., Detroit, Mich. Engine. No. 1,342,489; June 8; v. 275; p. 226.
Cleereman, Peter J., Kenosha, Wis. Beet-harvester. No. 1,342,795; June 8; v. 275; p. 284.
Clifford, Frederick L., and L. A. Perry, assignors to Chicago Pottery Company, Chicago, Ill. Closet-bowl. No. 1,342,499; June 8; v. 275; p. 226.
Clifford, Ward L., Malden, Mass. Washbasin for motor-propelled vehicles. No. 1,342,843; June 8; v. 275; p. 294.
Clow, James B., & Sons. (See Rice, Frank L., assignor.)
Cohn, Harry, Albany, N. Y. Duplicating-machine. No. 1,342,530; June 8; v. 275; p. 232.
Colburn Machine Tool Company. (See Head, Ernest C., assignor.)
Cold Light Manufacturing Company, Inc., The. (See Schlesinger, William A., assignor.)
Cold Light Manufacturing Company, The. (See Thorne, Victor C., assignor.)
Cole, Herbert, *et al.* (See Liebers, Meyer, assignor.)
Collett, Frederick W. H., Cambridge, Mass., assignor to Rockwell & Company, Inc. Mattress-side-stitching machine. No. 1,342,423; June 8; v. 275; p. 211.
Colman, Howard D., B. A. Peterson, and E. D. Parker, assignors to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,342,896; June 8; v. 275; p. 305.
Colson, Frankie M., Salt Lake City, Utah. False bottom for cooking utensils. No. 1,343,114; June 8; v. 275; p. 348.
Comiskey, Stanley A., Baltimore, Md., assignor to The Cutler-Hammer Mfg. Co. Counter. No. 1,342,665; June 8; v. 275; p. 257.
Conlon, James, Pawtucket, R. I. Transportation system. No. 1,342,531; June 8; v. 275; p. 232.
Connecticut Telephone & Electric Company, Incorporated, The. (See Livingston, S. D., and Stahl, assignors.)
Connolly, James J. (See Huff, William D., assignor.)
Connors, Thomas P., Bridgeport, Conn. Necktie and pin holder. No. 1,342,796; June 8; v. 275; p. 285.
Conti, Angelo, Washington, D. C. System of marine propulsion. No. 1,342,797; June 8; v. 275; p. 286.
Cook, George A., Kansas City, Mo. Preparing creosote-oil solutions. No. 1,342,942; June 8; v. 275; p. 314.
Cook, George E., Brooklyn, N. Y. Aerial bomb. No. 1,343,036; June 8; v. 275; p. 332.
Coppage, Benjamin D., Wilmington, Del. Drum winding-machine. No. 1,342,532; June 8; v. 275; p. 232.
Cornu, Marie J., Paris, France. Mercury-vapor lamp. No. 1,343,037; June 8; v. 275; p. 333.
Cosme, Carlos, Corona, N. Y. Cuspidor-cleaner. No. 1,342,739; June 8; v. 275; p. 273.
Cotten, Shepard M., Phoenix, Ariz. Method and apparatus for constructing concrete piles. No. 1,342,424; June 8; v. 275; p. 212.
Colwell, John W., assignor of two-thirds to M. Kohn, Chicago, Ill. Liquid-fuel burner. No. 1,342,988; June 8; v. 275; p. 323.
Crago, Felix H., Hot Springs, Mont. Trap. No. 1,342,425; June 8; v. 275; p. 212.
Craig Tractor Company, The. (See Diederich, John W., assignor.)
Crane Puller Company. (See Twombly, Harry D., assignor.)
Crane, William M., Company. (See Erskine, James, assignor.)
Crist, Frank, Lima, Ohio. Washout-plug for boilers. No. 1,342,740; June 8; v. 275; p. 273.
Crouch, John W., St. Louis, Mo. Hose-supporter. No. 1,342,666; June 8; v. 275; p. 258.
Crow, Martin E., Elkhart, Ind. Vehicle-frame brace. No. 1,342,623; June 8; v. 275; p. 249.
Crowley, John C., Toledo, Ohio. Apparatus for making sheet-glass. No. 1,342,533; June 8; v. 275; p. 233.
Cunard, Frederic W., Liverpool, England. Self-propelled tank or redoubt for military use. No. 1,342,943; June 8; v. 275; p. 314.
Current, George E., Mogollon, N. Mex. Rotary engine. No. 1,343,115; June 8; v. 275; p. 348.
Cutler-Hammer Mfg. Co., The. (See Comiskey, Stanley A., assignor.)
Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
Czechowicz, Alexander K., Alden Station, Pa. Lady's combination undergarment. No. 1,343,038; June 8; v. 275; p. 333.
Dagosteno, Augustine, New York, N. Y. Safety-brake. No. 1,343,116; June 8; v. 275; p. 348.
Dana, Homer J., Pullman, Wash. Portable hydraulic power device. No. 1,343,117; June 8; v. 275; p. 349.
Daniel, Wojciech. (See Zaboy, Maciej, assignor.)
Danielson, Oscar A., New York, N. Y. Combined incidence and side-slip indicator for aeroplanes and the like. No. 1,342,944; June 8; v. 275; p. 314.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Electrical cut-out. No. 1,343,039; June 8; v. 275; p. 333.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Porcelain. No. 1,343,040; June 8; v. 275; p. 333.
Davidson, Arthur C., assignor to Waugh Draft Gear Company, Chicago, Ill. Antifriction draw-bar. No. 1,342,586; June 8; v. 275; p. 244.
Davis, George B., Calgary, Alberta, Canada. Safety anti-tilting device for elevators. No. 1,343,118; June 8; v. 275; p. 349.
Davis, Jasper W. (See McMaster, Henry, assignor.)
Davis, Walter G., Miami, Fla. Soap-hanger. No. 1,342,844; June 8; v. 275; p. 294.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil and run-out gear for ordnance. No. 1,342,708; June 8; v. 275; p. 266.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to Vickers Limited, London, England. Ordnance recoil and run-out apparatus. No. 1,342,709; June 8; v. 275; p. 267.
Day, David T., Washington, D. C. Extracting oils and hydrocarbon material from shale and similar bituminous rocks. No. 1,342,741; June 8; v. 275; p. 273.
Dean, James H., Chicago, Ill. Sifter for flour-bins. No. 1,342,989; June 8; v. 275; p. 323.
De Coursey, William, San Francisco, Calif. Combined ore grinder and amalgamator. No. 1,343,041; June 8; v. 275; p. 333.
De Martin, Charles L., and H. C. Foster, assignors to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,342,426; June 8; v. 275; p. 212.
Dennis, Medley, *et al.* (See Medley, Granville E., assignor.)
Dennis, Morton, *et al.* (See Medley, Granville E., assignor.)
De Rieux, Lee O. (See Thompson, George H., assignor.)
De Rosier, David, Braddock, Pa. Face-mask. No. 1,342,897; June 8; v. 275; p. 305.
De Rosier, David, Braddock, Pa. Face-mask. No. 1,342,898; June 8; v. 275; p. 305.
Detroit Belt Lacer Company. (See Garilus, B., and Knott, assignors.)
Detroit Stove Works. (See Fry, John A., assignor.)
Dickson, Benjamin H., and J. E. Fry, Yuma, Colo. Stove. No. 1,343,122; June 8; v. 275; p. 350.
Dickson, George E., Chicago, Ill. Making weatherproof nails. No. 1,342,742; June 8; v. 275; p. 273.
Diederich, John W., assignor to The Craig Tractor Company, Cleveland, Ohio. Tractor. No. 1,342,427; June 8; v. 275; p. 212.
Diehl, Adam, Springfield, Ohio. Molding-machine. No. 1,342,428; June 8; v. 275; p. 213.

Dorsk, Frank L., Baltimore, Md., assignor to Maryland Toy Manufacturing Company, Inc. Toy. No. 1,342,945; June 8; v. 275; p. 314.
Dougherty, John M., and H. C. Tabler, St. Louis, Mo. Safety device for relief-valves. No. 1,342,667; June 8; v. 275; p. 258.
Douglass, Ira C., assignor to The Pfaudler Company, Rochester, N. Y. Tank. No. 1,343,169; June 8; v. 275; p. 359.
Doyle, William T. (See Sturtevant, T. J., and Doyle.)
Draper Corporation. (See Lussier, Henry, assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper, Clare H., and J. Northrop, Hopedale, assignors to Hopedale Manufacturing Company, Milford, Mass. Filling-detector mechanism. No. 1,342,710; June 8; v. 275; p. 267.
Dreher, Richard C., Rockville, Conn. Picking-motion for looms. No. 1,342,946; June 8; v. 275; p. 314.
Dreyfus, Herbert D., Terre Haute, Ind. Safety device for motion-picture projectors. No. 1,342,429; June 8; v. 275; p. 213.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,342,711; June 8; v. 275; p. 267.
Duffy, Joseph J., Chicago, Ill. Transmission mechanism. No. 1,342,587; June 8; v. 275; p. 244.
Duggan, William H. (See Gardiner, W., and Duggan.)
Dull, Raymond W., La Grange, Ill. Apparatus for screening and washing gravel. No. 1,342,990; June 8; v. 275; p. 329.
Duncan, William M., Alton, Ill. Oil-still. No. 1,342,947; June 8; v. 275; p. 315.
Dunlap, John, Camden, S. C. Footrest. No. 1,343,119; June 8; v. 275; p. 349.
Duplexalite Corporation. (See White, Ernest C., assignor.)
Duscher, Ernest, La Crosse, Wis., assignor, by mesne assignments, to Printograph Manufacturing Co., St. Paul, Minn. Filling-in attachment for printing-machines. No. 1,343,170; June 8; v. 275; p. 359.
Dusha, Paul F., New York, and A. Feyk, Bohemia, N. Y., assignors to Holub-Dusha Company, New York, N. Y. Pearl-button machine. No. 1,343,042; June 8; v. 275; p. 333.
Dwyer, David A., London, England. Washing-machine. No. 1,342,624; June 8; v. 275; p. 250.
Dyer, Newell V., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,342,430; June 8; v. 275; p. 213.
Dykeman, Louis E., New Orleans, La. Candy-making machine. No. 1,343,120; June 8; v. 275; p. 349.
Earney, John D., Salt Lake City, Utah. Triple-gap sparkplug. No. 1,342,431; June 8; v. 275; p. 213.
Eastman Kodak Company. (See Love, A. F., and Nicoletti, assignors.)
Eastman Kodak Company. (See Lovejoy, Frank W., assignor.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eaton, William E., Washington, D. C., assignor to the Government of the United States. Medical pouch. No. 1,342,432; June 8; v. 275; p. 213.
Eddy, Charles W., East Providence, R. I. Metal-plating machine. No. 1,342,899; June 8; v. 275; p. 306.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Staybolt-machine. No. 1,342,534; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Cutter-head. No. 1,342,535; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Machine for making staybolts and the like. No. 1,342,536; June 8; v. 275; p. 233.
Eklo, Olaus. (See Skinderviken, Johan, assignor.)
Elgin Gas Motor Company. (See Thompson, Herbert L., assignor.)
Elliott Company. (See Elliott, William S., assignor.)
Elliott, William S., assignor to Elliott Company, Pittsburgh, Pa. Turbine. No. 1,342,845; June 8; v. 275; p. 295.
Ellis, Carleton, Montclair, N. J. Hydrogen-circulation process. No. 1,342,668; June 8; v. 275; p. 258.
Ellis, John F., Huntington, W. Va. Laying-cabinet. No. 1,342,434; June 8; v. 275; p. 214.
Ellison, James E. (See Evans, G. A., and Ellison.)
Ellison, Thomas J., Terrill, Ky. Seed-dropping mechanism. No. 1,342,948; June 8; v. 275; p. 315.
Elmore, Guy H., Swarthmore, Pa. Centrifugal drier. No. 1,342,743; June 8; v. 275; p. 273.
Embree, Herbert, Hamilton, Ontario, Canada. Mantle-sewing machine. No. 1,342,669; June 8; v. 275; p. 258.
Ernst, George, Newark, N. J. Test-valve. No. 1,343,043; June 8; v. 275; p. 334.
Erskine, James, Jersey City, N. J., assignor to William M. Crane Company. Heating apparatus. No. 1,342,991; June 8; v. 275; p. 323.
Eschenbrenner, Henry W. (See Eschenbrenner, William E., assignor.)
Eschenbrenner, William E., assignor of one-half to H. W. Eschenbrenner, New York, N. Y. Chair-bed. No. 1,343,044; June 8; v. 275; p. 334.
Evans, George A., and J. E. Ellison, Layton, Utah. Automatic scale. No. 1,342,670; June 8; v. 275; p. 259.
Evans, Howard S., Pittsburgh, Pa., assignor to Macbeth-Evans Glass Company. Refractive glass for automobile-lamps. No. 1,342,744; June 8; v. 275; p. 274.
Everett, Howard E., Grand Rapids, Mich. Shoe-polish box. No. 1,342,537; June 8; v. 275; p. 233.
Fafnir Bearing Company, The. (See Sellew, Roland W., assignor.)
Fairbanks, Morse & Co. (See Thompson, H. E., and Bunn, assignors.)
Fadco, Frank T., assignor to Pacific Car & Foundry Co., Seattle, Wash. Device for coupling trailers to tractors. No. 1,342,949; June 8; v. 275; p. 315.
Fahrney, John J., assignor of one-half to E. M. Hoover, Timberville, Va. Tire-heater. No. 1,343,045; June 8; v. 275; p. 334.
Farrand, Dudley, Newark, N. J. Pump. No. 1,342,798; June 8; v. 275; p. 286.
Farris, George R., Stanberry, Mo. Wire-stretcher. No. 1,342,625; June 8; v. 275; p. 250.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Shears. No. 1,343,079; June 8; v. 275; p. 341.
Fehlman, Adolf, and G. Hintermann, Basel, Switzerland. Internal-combustion engine. No. 1,342,950; June 8; v. 275; p. 315.
Fekete, Stephen I. (See Baits, S. G., and Fekete.)
Ferrell, Elmer C. (See Brumfield, James H., assignor.)
Fesler, Andrew, Detroit, Mich., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. No. 1,342,671; June 8; v. 275; p. 259.
Feyk, Anton. (See Dusha, P. F., and Feyk.)
Field, William H., Jr., Winchester, Mass. Measuring instrument. No. 1,342,992; June 8; v. 275; p. 324.
Finch, Albert E., assignor to Belt Grip Pulley Company, Buffalo, N. Y. Caster. No. 1,342,500; June 8; v. 275; p. 226.
Fink, Colin G., East Orange, N. J., assignor to General Electric Company. Alloy. No. 1,342,993; June 8; v. 275; p. 324.
Fitzgerald Mfg. Company, The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Bath-spray. No. 1,342,994; June 8; v. 274; p. 324.
Fleckl, Hans, Boyds, and W. J. Boyd, Chewelah, Wash. Sleigh-runner attachment for baby-carriages and other vehicles. No. 1,343,046; June 8; v. 275; p. 334.
Fletcher, Alexander. (See Alles, F. W., Fletcher, and Hitchens.)
Fletcher, George, & Company. (See Miller, James, assignor.)
Ford, Eardley H. (See Baker, R. E., Ford, and Harber.)
Foster, Harry C. (See De Martin, C. L., and Foster.)
Foster, Walter H. (See Eden, James A., Jr., assignor.)
Fox, Robert W., West Frankfort, Ill. Button. No. 1,343,080; June 8; v. 275; p. 341.
Francke Co., The. (See Francke, William J., assignor.)
Francke, William J., assignor to The Francke Co., Highland Park, N. J. Flexible coupling. No. 1,343,121; June 8; v. 275; p. 349.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,342,995; June 8; v. 275; p. 324.
Frank, Otto H., Brooklyn, N. Y. Belt-rack for supporting articles. No. 1,342,626; June 8; v. 275; p. 250.
Franklin, John F., Dlo, Miss. Gear. No. 1,343,047; June 8; v. 275; p. 334.
Free, William C., Rockford, Ill. Sewing-machine. No. 1,342,435; June 8; v. 275; p. 214.
Freeland, Lloyd D., Halbrite, Saskatchewan, Canada, assignor to W. J. H. Strong, Chicago, Ill. Hot-air motor. No. 1,342,501; June 8; v. 275; p. 226.
Fritz, John H. (See Green, J. R., and Fritz.)
Fritzsche, George H., Brooklyn, assignor to Taplex Corporation, New York, N. Y. Fuel and producing same. No. 1,342,799; June 8; v. 275; p. 286.
Fry, Jesse E. (See Dickson, B. H., and Fry.)
Fry, John A., assignor to Detroit Stove Works, Detroit, Mich. Gas-burner. No. 1,342,436; June 8; v. 275; p. 214.
Gagné, William G., Boston, Mass. Collapsible swivel-leg. No. 1,342,951; June 8; v. 275; p. 316.
Gahl, Rudolf, Miami, Ariz., and R. M. Haskell, Lake Linden, Mich.; said Gahl assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Ore-flotation apparatus. No. 1,343,123; June 8; v. 275; p. 350.
Galipp, Hermann C., Dallas, Tex. Lawn-swing. No. 1,343,124; June 8; v. 275; p. 350.
Gardiner, William, Chicago, Ill. Storage-battery construction. No. 1,342,952; June 8; v. 275; p. 316.
Gardiner, William, Chicago, Ill. Cover for storage batteries. No. 1,342,954; June 8; v. 275; p. 316.
Gardiner, William, and W. H. Duggan, Chicago, Ill. Active material for battery-plates. No. 1,342,953; June 8; v. 275; p. 316.
Garlius, Bernt, and F. W. Knott, assignors to Detroit Belt Lacer Company, Detroit, Mich. Method and machine for forming ganged belt-fastening hooks. No. 1,342,712; June 8; v. 275; p. 267.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,342,800; June 8; v. 275; p. 286.

Gates, Charles C., assignor, by mesne assignments, to The Gates Rubber Company, Denver, Colo. Belt-making process. (Reissue.) No. 14,875; June 8; v. 275; p. 362.
Gates Rubber Company, The. (Reissue.) (See Gates, Charles C., assignor.)
Gates Rubber Company, The. (See Yelm, Charles W., assignor.)
Gebauer, Charles L., Cleveland, Ohio. Producing metal bodies. No. 1,342,801; June 8; v. 275; p. 286.
Gebhardt, Henry J., Chicago, Ill. Valve. No. 1,342,955; June 8; v. 275; p. 316.
General Electric Company. (See Barton, Theophilus F., assignor.)
General Electric Company. (See Dantsizen, Christian, assignor.)
General Electric Company. (See Fink, Colin G., assignor.)
General Electric Company. (See Frank, John J., assignor.)
General Electric Company. (See Hutt, Leonard P., assignor.)
General Electric Company. (See Wedmore, Edmund B., assignor.)
General Electric Company. (See Zimmer, Paul H., assignor.)
Geraghty, John P., Jersey City, N. J. Permutation-lock. No. 1,343,048; June 8; v. 275; p. 335.
Geraghty, John P., Jersey City, N. J. Locking device for automobiles. No. 1,343,049; June 8; v. 275; p. 335.
Gerli, Paul, and O. A. Ross, New York, N. Y. Artillery-airplane or the like. No. 1,342,802; June 8; v. 275; p. 286.
Gibson, Francis W., West Roxbury, Mass. Signboard. No. 1,342,538; June 8; v. 275; p. 234.
Gillespie, Edward S., Detroit, Mich. Coloring moving-picture films. No. 1,342,803; June 8; v. 275; p. 287.
Gillette, William W., Gloversville, N. Y. Boiler. No. 1,342,672; June 8; v. 275; p. 259.
Gindrat, Louis R., assignor to The Cigar Machine Corporation of America, Baltimore, Md. Machine for applying paper molds to cigar-bunches. No. 1,343,125; June 8; v. 275; p. 350.
Girardi, Frank. (See Basil, J., and Girardi.)
Given, Guy C., H. S. McQuaid, and R. A. Long, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Manufacturing ammonium perchlorate from sodium perchlorate and ammonium sulfate. No. 1,342,956; June 8; v. 275; p. 316.
Good Inventions Co. (See Good, John, assignor.)
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Confined-combustion method. No. 1,342,901; June 8; v. 275; p. 306.
Goodrich, B. F., Company, The. (See McConnell, Shank, assignor.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,342,902; June 8; v. 275; p. 306.
Goodwin, Charles, East Providence, assignor to E. W. Martin, Barrington, Laurence C. Martin, Providence, R. I., and G. W. Bleecker, Chicago, Ill., trustees. Lens-grinding machine. No. 1,343,050; June 8; v. 275; p. 335.
Goodyear's Metallic Rubber Shoe Company, The. (See Price, Raymond B., assignor.)
Gordon, James C., Monmouth, Ill. Barrel-cart. No. 1,342,437; June 8; v. 275; p. 214.
Gorsuch, George J. (See Boulton, G., and Gorsuch.)
Gosline, Harold I., Worcester, Mass. Freezing attachment for microtomes. No. 1,343,051; June 8; v. 275; p. 335.
Government of the United States. (See Eaton, William E., assignor.)
Graham, Thaddeus S., Los Angeles, Calif. Duplex needle-plate for sole-stitching machines. No. 1,342,903; June 8; v. 275; p. 306.
Graphoscope Company, The. (See Jenkins, Charles F., assignor.)
Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Resistance welding. No. 1,342,957; June 8; v. 275; p. 316.
Gray, George F., Washington, D. C. Knockdown mast. No. 1,342,847; June 8; v. 275; p. 295.
Graydon, Thomas H., Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sole-cutting machine. (Reissue.) No. 14,876; June 8; v. 275; p. 362.
Green, John R., and J. H. Fritz, Baxter Springs, Kans. Automobile-identification device. No. 1,342,627; June 8; v. 275; p. 250.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,342,804; June 8; v. 275; p. 287.
Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lubricating system for lathe-headstocks. No. 1,342,904; June 8; v. 275; p. 307.
Griffin, John P., New York, N. Y. Ash-tray. No. 1,342,805; June 8; v. 275; p. 287.
Griswold Manufacturing Company. (See Monihan, Daniel J., assignor.)
Gross, John E., Walla Walla, Wash. Threshing-machine. No. 1,342,806; June 8; v. 275; p. 287.
Grote, Fred J., Cincinnati, Ohio. Shade and curtain bracket. No. 1,343,126; June 8; v. 275; p. 350.
Gruber, Fred, Newark, N. J. Valve mechanism. No. 1,342,438; June 8; v. 275; p. 214.
Hagenau, Henry. (See Smith, Theodore M., assignor.)
Hale, David E., Kansas City, Mo., and J. E. McCormick, Kansas City, Kans. Tool for brickmasons. No. 1,342,439; June 8; v. 275; p. 215.
Hallinan, Thomas, Paterson, N. J. Electrical toy gun. No. 1,343,127; June 8; v. 275; p. 351.
Halstead, Frederick H., assignor to Rivett Lathe and Grinder Company, Boston, Mass. Lathe-tool. No. 1,342,745; June 8; v. 275; p. 274.
Halstead, Frederick H., assignor to Rivett Lathe and Grinder Company, Boston, Mass. Lathe-tool. No. 1,342,746; June 8; v. 275; p. 274.
Halverson, Christian, Seattle, Wash. Device for babbitting pulleys. No. 1,343,128; June 8; v. 275; p. 351.
Halverson, Otto N. (See Johnson, M. R., and Halverson.)
Hamel, Joseph O., Smith's Falls, Ontario, Canada. Self-propelled vehicle. No. 1,342,440; June 8; v. 275; p. 215.
Hammen, John J., Spencer, Iowa. Trenching-machine. No. 1,343,081; June 8; v. 275; p. 341.
Hampton, Charles T., Des Moines, Iowa. Splicing a tube and product thereof. No. 1,342,441; June 8; v. 275; p. 215.
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Haner, Carl, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Furnace. No. 1,342,958; June 8; v. 275; p. 317.
Harber, Laurence S. (See Baker, R. E., Ford, and Harber.)
Harley, Leon J., Jr. (See Hodgetts, Harold W., assignor.)
Harrell, Charlie S., Lexington, Miss. Embalming device. No. 1,342,997; June 8; v. 275; p. 325.
Harrington, Tillie, Minneapolis, Minn. Tub. No. 1,342,807; June 8; v. 275; p. 287.
Harrington, Tillie, Minneapolis, Minn. Toaster. No. 1,343,129; June 8; v. 275; p. 351.
Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Toy aeroplane. No. 1,342,998; June 8; v. 275; p. 325.
Harris, Elmer E., Memphis, Tenn. Auto-valve lifter. No. 1,343,130; June 8; v. 275; p. 351.
Haskell, Robert M. (See Gahl, R., and Haskell.)
Hasse, Franklin C., Congress Park, Ill. Rail-cutting device. No. 1,342,502; June 8; v. 275; p. 226.
Hastings, Cornelius G., Glendale, Calif., assignor to Hastings Tunnel System Company. Erecting-machine. No. 1,342,503; June 8; v. 275; p. 227.
Hastings Tunnel System Company. (See Hastings, Cornelius G., assignor.)
Haynes, Charles M., Chillicothe, Ohio. Eyeglass-mounting. No. 1,342,808; June 8; v. 275; p. 288.
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Speed-changing device. No. 1,343,131; June 8; v. 275; p. 351.
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Feed-changing mechanism. No. 1,343,132; June 8; v. 275; p. 351.
Heath, Arthur E., London, England. Sparking plug for ignition purposes. No. 1,343,052; June 8; v. 275; p. 336.
Heath, Charles W., Cincinnati, Ohio. Method of and apparatus for analyzing gases. No. 1,342,539; June 8; v. 275; p. 234.
Hecht, Joseph, Brooklyn, N. Y., assignor to Cash Safety Window Company, New York, N. Y. Wicket or closure for windows. No. 1,342,673; June 8; v. 275; p. 259.
Heck, Charles M., Raleigh, N. C. Multiple-record-repeating phonograph. No. 1,342,442; June 8; v. 275; p. 215.
Hedges, Arthur L. (See Speyer, John E., assignor.)
Hedges, Chester G., Chase, Kans. Fuel-vaporizer for combustion-engines. No. 1,343,053; June 8; v. 275; p. 336.
Heisterkamp, Alexander, Hoboken, N. J. Account-book. No. 1,343,082; June 8; v. 275; p. 341.
Helling, Charles H., assignor of one-half to G. C. Lester, Oakland, Calif. Switch attachment for electric irons. No. 1,342,905; June 8; v. 275; p. 307.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 1,342,674; June 8; v. 275; p. 260.
Herst, Hiram H., Ocean View, Va. Shirt. No. 1,342,906; June 8; v. 275; p. 307.
Hester, Walter F. (See Pickens, J. A., and Hester.)
Heywood, Charles. (See Heywood, James and C.)
Heywood, James, Manchester, and C. Heywood, Stockport, England. Roller-lap stop-motion. No. 1,342,713; June 8; v. 275; p. 268.
Higgins, Frank G., Spokane, Wash. Catamenial bandage. No. 1,342,588; June 8; v. 275; p. 244.
Highway Tractor Company, The. (See McCutchen, Charles G., assignor.)
Highway Tractor Company. (See Schaaf, A. E., and Mills, assignors.)
Hill, Charles B., San Francisco, Calif. Linotype-mold. No. 1,343,171; June 8; v. 275; p. 359.
Hill, Willis C., Philadelphia, Pa. Shock-loader. No. 1,342,959; June 8; v. 275; p. 317.
Hine, Lyman N. (See Pape, Frederic, A. G., assignor.)
Hintermann, Gottlieb. (See Fehlmann, A., and Hintermann.)
Hitchens, George E. (See Alles, F. W., Fletcher, and Hitchens.)
Hitner, Harry F., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Ladling glass. No. 1,342,960; June 8; v. 275; p. 317.
Hix, William L., Nashville, Tenn. Ice-cream-dispensing device. No. 1,342,675; June 8; v. 275; p. 260.

Hoberg, Frank H., Green Bay, Wis. Locking device for cabinets. No. 1,342,961; June 8; v. 275; p. 317.
Hobson, John S., assignor to Massey Concrete Products Company, Chicago, Ill. Foundation and housing for railway signal apparatus. No. 1,342,962; June 8; v. 275; p. 317.
Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-handle. No. 1,342,443; June 8; v. 275; p. 215.
Hoffman, Samuel. (See Morgen, S., and Hoffman.)
Holdaway, Hall H., Los Angeles, Calif. Machine for extracting fiber from palms and the like. No. 1,342,714; June 8; v. 275; p. 268.
Holdsworth, Byron H., Los Angeles, Calif. Removing the rear wheels of automobiles from their axles. No. 1,342,907; June 8; v. 275; p. 307.
Hollaway, William T., Alliance, Ohio. Loading and unloading truck. No. 1,342,628; June 8; v. 275; p. 250.
Hollings, Ernest, Cleveland, Ohio. Making nut-blanks. No. 1,342,676; June 8; v. 275; p. 260.
Holmgren, Torsten A. F., Stockholm, and C. T. Thorssell, assignors to Aktiebolaget Kvofveindustri, Gottenborg, Sweden. Heating of material or the performance of chemical processes in electrical furnaces, together with apparatus intended therefor. No. 1,342,809; June 8; v. 275; p. 288.
Holt, Harris B., Dormont, assignor to Rosedale Foundry & Machine Company, Pittsburgh, Pa. Furnace construction. No. 1,342,908; June 8; v. 275; p. 307.
Holub-Dusha Company. (See Dusha, P. F., and Feyk, assignors.)
Hoover, Ernest M. (See Fahrney, John J., assignor.)
Hope, William H., Providence, R. I. Roll-container. No. 1,342,909; June 8; v. 275; p. 308.
Hopedale Manufacturing Company. (See Draper, C. H., and Northrop, assignors.)
Horstman, Edward C., St. Louis, Mo. Handle for suitcases and the like. No. 1,342,677; June 8; v. 275; p. 260.
Hottmann, Charles W., assignor to The Hottmann Machine Company, Philadelphia, Pa. Condenser and separator. No. 1,342,810; June 8; v. 275; p. 288.
Hottmann Machine Company, The. (See Hottmann, Charles W., assignor.)
Houghton, Herbert H., Filer, Idaho. Valved coupling for lubricators. No. 1,342,678; June 8; v. 275; p. 260.
Houston Fountain Pen Company. (See Borbeck, Martin, assignor.)
Howe, Albert A., Terril, Iowa. Folding commode-chair. No. 1,342,715; June 8; v. 275; p. 268.
Howe, Earl W., Norfolk, Va. Griddle. No. 1,342,444; June 8; v. 275; p. 215.
Howe, Olaf L., Missoula, Mont. Air-motor. No. 1,342,811; June 8; v. 275; p. 288.
Howell, Davis P., Modesto, Calif. System for collecting water. No. 1,342,679; June 8; v. 275; p. 261.
Hudd, Alfred E., Melbourne, and G. H. Wion, Brighton, Victoria, Australia. Electrical point-detector for railways. No. 1,343,133; June 8; v. 275; p. 352.
Hudson, Joseph E. (See Hudson, Richard W. and J. E.)
Hudson Motor Car Company. (See Baits, S. G., and Fekete, assignors.)
Hudson, Richard W. and J. E., Toledo, Ohio. Twist-drill machine. No. 1,342,963; June 8; v. 275; p. 318.
Huff, William D., La Fayette, La., assignor of one-half to J. J. Connolly, Roanoke, Va. Electric water-heater. No. 1,343,134; June 8; v. 275; p. 352.
Hughes Granite Company, The. (See Hughes, W. E., and King, assignors.)
Hughes, Lawrence D., Oklahoma, Okla. Resilient tire. No. 1,342,172; June 8; v. 275; p. 359.
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Mausoleum construction. No. 1,342,812; June 8; v. 275; p. 288.
Hultquist, Charles A., Los Angeles, Calif. Fluid-operated tool. No. 1,342,540; June 8; v. 275; p. 234.
Hunter Gas Engine and Development Company, The. (See Kershaw, Edwin T., assignor.)
Hupp Motor Car Corporation. (See Watts, Frank E., assignor.)
Hurlbut, Clarke S., Philadelphia, Pa. Easel. No. 1,343,054; June 8; v. 275; p. 336.
Huston, Sidney H., Houston, Tex. Screening device for oil-wells. No. 1,342,813; June 8; v. 275; p. 289.
Huston, Sidney H., Houston, Tex. Sample-taking device. No. 1,342,814; June 8; v. 275; p. 289.
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Switch construction. No. 1,342,999; June 8; v. 275; p. 325.
Hyland, Michael J., Rochester, N. Y. Bottle-holder. No. 1,342,747; June 8; v. 275; p. 274.
Indiana Lamp Company. (See De Martin, C. L., and Foster, assignors.)
Ingram, Sleeper T., assignor of thirty per cent. to J. E. Newell, St. Louis, Mo. Tractor rotary plow. No. 1,342,815; June 8; v. 275; p. 289.
Inland Automatic Thrasher and Machinery Company. (See Shanks, John N., assignor.)
Inman, Thomas M. (See Bygrave, L. C., and Inman.)
International Army and Navy Equipment Company, The. (See Seymour, Benjamin F., assignor.)
Irsch, Jacob, New York, N. Y. Amusement device. No. 1,343,083; June 8; v. 275; p. 342.
Isko Company, The. (See Joy, Henry B., assignor.)
Isphording, Richard C., Cincinnati, Ohio, and G. H. Schultz, Fort Thomas, Ky. Gasolene-reservoir for automobiles. No. 1,343,173; June 8; v. 275; p. 359.
Jakuricz, Joseph. (See Kropacz, John, assignor.)
Jambor, John E., Milwaukee, Wis., assignor to Westinghouse Lamp Company. Tray for lamp-stems or the like. (Reissue.) No. 14,877; June 8; v. 275; p. 362.
Janney, Robert E. L., Chicago, Ill. Carbureter. No. 1,342,445; June 8; v. 275; p. 216.
Jarvis, John G., Stamford, N. Y. Acetyl cellulose composition and making same. No. 1,343,135; June 8; v. 275; p. 352.
Javelet, Albert, New Orleans, La. Amusement device. No. 1,343,136; June 8; v. 275; p. 352.
Jeannotte, Charles E., Montreal, Quebec, Canada. Radiator. No. 1,342,680; June 8; v. 275; p. 261.
Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Motion-picture machine. No. 1,342,681; June 8; v. 275; p. 261.
Jennings, Emerson P., Jr., Lehighton, Pa. Sheet-feeding mechanism. No. 1,342,629; June 8; v. 275; p. 250.
Jennings, Emerson P., Jr., Lehighton, Pa. Sheet-separating device. No. 1,342,630; June 8; v. 275; p. 251.
Jensen, George C., Oakland, Calif. Automobile-lock. No. 1,342,748; June 8; v. 275; p. 275.
Jermain, Herbert F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Coloring iron or steel articles. No. 1,342,910; June 8; v. 275; p. 308.
Johnson, Charles L., Springfield, Ohio. Cap-removing tool. No. 1,342,848; June 8; v. 275; p. 295.
Johnson, Charles M., Avalon, Pa. Steel alloy. No. 1,342,911; June 8; v. 275; p. 308.
Johnson, Charles M., Avalon, Pa. Bunsen burner. No. 1,342,912; June 8; v. 275; p. 308.
Johnson, Charles M., Avalon, Pa. Vault-plate. No. 1,342,913; June 8; v. 275; p. 308.
Johnson, Fred V., Berkeley, Calif. Bearing. No. 1,342,541; June 8; v. 275; p. 234.
Johnson, John A., *et al.* (See Jonsson, Jonas, assignor.)
Johnson, Louis D., and E. J. Biedenkopf, Blue Island, Ill. Skid-chain fastener for motor-vehicles. No. 1,342,631; June 8; v. 275; p. 251.
Johnson, Maurice, Newark, N. J. Paper-file. No. 1,342,504; June 8; v. 275; p. 227.
Johnson, Morrison R., and O. N. Halverson, Lewistown, Mont. Carpet-cleaning apparatus. No. 1,343,137; June 8; v. 275; p. 352.
Johnson, Peter, Los Angeles, Calif. Abdominal support. No. 1,342,914; June 8; v. 275; p. 308.
Johnson, Sven P., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Electric feed mechanism for planers and current-controlling system therefor. No. 1,342,915; June 8; v. 275; p. 308.
Johnston, Edwin A., Johnstown, Pa. Closet-ventilator. No. 1,342,716; June 8; v. 275; p. 268.
Jones, Oscar B., and D. W. Spence, Columbus, Ohio. Valve-truing device. No. 1,342,632; June 8; v. 275; p. 251.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,343,138; June 8; v. 275; p. 353.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,343,139; June 8; v. 275; p. 353.
Jonsson, Jonas, assignor of one-third to F. C. Miller and one-third to J. A. Johnson, Leonardville, Kans. Combined extensible or adjustable and foldable stepladder. No. 1,343,542; June 8; v. 275; p. 234.
Joy, Henry B., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,342,964; June 8; v. 275; p. 318.
Kaczmarek, Edward J., Stevens Point, Wis. Device for extracting automobiles from mudholes or the like. No. 1,342,749; June 8; v. 275; p. 275.
Karchitz, Frank, Bridgeport, Conn. Toy swing-chair and sulky. No. 1,343,000; June 8; v. 275; p. 325.
Kaufman, Adolph G., New York, N. Y. Vaporizer and holder. No. 1,342,446; June 8; v. 275; p. 216.
Kaufman, Adolph G., New York, N. Y. Vaporizer-strainer for lamps. No. 1,342,849; June 8; v. 275; p. 296.
Keeley, Charles A., assignor of one-fourth to C. C. Shamp and one-fourth to A. A. Myers, Cleveland, Ohio. Flagstaff. No. 1,343,140; June 8; v. 275; p. 353.
Kelly, William E., Cleveland, Ohio. Adjusting means for boring-bar cutters. No. 1,342,447; June 8; v. 275; p. 216.
Kenagy, Paul J., Newton, Kans. Electric sign. No. 1,343,141; June 8; v. 275; p. 353.
Kendall, Sarah F. (See Kendall, William H., assignor.)
Kennedy, Benjamin H. (See Kennedy, Dewey M., assignor.)
Kennedy, Dewey M., assignor of one-half to B. H. Kennedy, Rochester, N. Y. Caster. No. 1,342,448; June 8; v. 275; p. 216.
Kenchen, Simon, New Haven, Conn. Vulcanizer. No. 1,342,916; June 8; v. 275; p. 309.
Kendall, William H., assignor to S. F. Kendall, Monson, Mass. Machine for blocking and pressing hats. No. 1,343,185; June 8; v. 275; p. 361.
Kerosene Burning Carburetor Company. (See McCutchan, Harvey S., assignor.)

Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Internal-combustion engine. No. 1,343,142; June 8; v. 275; p. 353.
Kessler, Ernst, Biel, Switzerland. Hose-coupling especially applicable to pressure and vacuum brake pipes. No. 1,343,084; June 8; v. 275; p. 342.
Kidder, Dwight E., Minneapolis, Minn., assignor of one-half to M. E. Olson, Vancouver, British Columbia, Canada. Automobile-headlight control. No. 1,343,143; June 8; v. 275; p. 353.
Kiesel, William F., Jr., Altoona, Pa. Economizer for locomotives. No. 1,343,144; June 8; v. 275; p. 354.
Kinch, George E., Quirindi, New South Wales, Australia. Lid for closet-seats. No. 1,342,505; June 8; v. 275; p. 227.
King, James B. (See Hughes, W. E., and King.)
Kingsbury, Albert, Pittsburgh, Pa. Horizontal thrust-bearing. (Reissue.) No. 14,878; June 8; v. 275; p. 363.
Kinley, Oren W., Des Moines, Iowa. Spark-gap. No. 1,342,816; June 8; v. 275; p. 289.
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kitterman, Jesse C. (See Watson, R. B., and Kitterman.)
Kleine, Harry A., Jersey City Heights, N. J. Auto-license indicating device. No. 1,342,850; June 8; v. 275; p. 296.
Kline Company, The. (See Barber, William J., assignor.)
Kline, William, Waynesboro, Va., assignor of one-half to W. J. Moore, Washington, D. C. Sound-regulator for audible signals. No. 1,342,543; June 8; v. 275; p. 235.
Knight, James H. (See Anderson, August R., assignor.)
Knott, Frank W. (See Garlius, B., and Knott.)
Knowlton, John A., Dorchester, assignor to Universal Tide Power Co., Boston, Mass. Hydraulic air-motor. No. 1,342,682; June 8; v. 275; p. 261.
Koch, George, assignor to E. Cadgene and O. Berg, Paterson, N. J. Pile fabric. No. 1,342,589; June 8; v. 275; p. 244.
Koepp, Charles W. (See Christman, A. G., and Koepp.)
Kohler, Conrad, Zurich, Switzerland. Device for the recuperation of available heat on steam-locomotives provided with surface condensers. No. 1,342,544; June 8; v. 275; p. 235.
Kohlhepp, Frederick A., assignor to Larter & Sons, Newark, N. J. Locket. No. 1,342,817; June 8; v. 275; p. 289.
Kohn, Monroe. (See Cowell, John W., assignor.)
Konar, John, Chicago, Ill. Internal-combustion chamber for engines. No. 1,342,449; June 8; v. 275; p. 216.
Kosich, Mark, New York, N. Y. Permutation-lock. No. 1,343,145; June 8; v. 275; p. 354.
Kost, Stephen A., and W. Yaeger, Buffalo, N. Y., assignors to The Quality Brands Company, Cleveland, Ohio. Glazing-machine. No. 1,342,450; June 8; v. 275; p. 216.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,342,545; June 8; v. 275; p. 235.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,342,546; June 8; v. 275; p. 235.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,342,547; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,342,548; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism with door-interlock. No. 1,342,549; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Swith-locking safety-panel. No. 1,342,550; June 8; v. 275; p. 236.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
Krogh, Carl A., *et al.*, administrators. (See Krogh, Ferdinand W.)
Krogh, Ferdinand W., deceased, San Francisco, Calif.: C. A. Krogh and O. Poulsen, administrators. Deep-well propeller-screw pump. No. 1,342,551; June 8; v. 275; p. 236.
Krogh, Ferdinand W., deceased; C. A. Krogh, San Francisco, and O. Poulsen, Alameda, Calif., administrators. Centrifugal pump. No. 1,342,552; June 8; v. 275; p. 237.
Kropacz, John, assignor of one-third to J. Jakuricz, Calgary, Alberta, Canada. Aeronautic device. No. 1,343,055; June 8; v. 275; p. 336.
Labitotière, Edouard, Bezons, France. Crank for light high-speed engines. No. 1,342,683; June 8; v. 275; p. 261.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Metallic structure. No. 1,342,818; June 8; v. 275; p. 290.
La Count, Eldridge I. (See Prince, B. A., and La Count.)
La Fontaine, George A., assignor of one-half to O. Steinen, Los Angeles, Calif. Clipper-shears. No. 1,343,174; June 8; v. 275; p. 359.
Lafontaine, George A., San Pedro, Calif., assignor of one-half to O. Steinen, Los Angeles, Calif. Hair-clipper. No. 1,343,175; June 8; v. 275; p. 359.
Lagersten, Frans A., assignor to Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Water-cooled working-cylinder for internal-combustion engines. No. 1,342,633; June 8; v. 275; p. 251.

Lake, Clair D., Endicott, assignor to The Tabulating Machine Company, New York, N. Y. Connector-plug. No. 1,342,819; June 8; v. 275; p. 290.
Lamb, James J. (See Wright, W. M., Teeples, and Lamb.)
Landis, Clayton B., Philadelphia, Pa. Cabinet. No. 1,342,851; June 8; v. 275; p. 296.
Lane, Charles C., Los Angeles, Calif. Multiple-process Chillan mill. No. 1,342,917; June 8; v. 275; p. 309.
Larsen, Edward A., Larkspur, Calif. Compressor-mold for forming concrete hulls. No. 1,343,176; June 8; v. 275; p. 360.
Larson, August V., Brooklyn, N. Y. Expansion-engine. No. 1,343,056; June 8; v. 275; p. 336.
Larter & Sons. (See Kohlhepp, Frederick A., assignor.)
Laycock, Arthur M., Kingston, Pa. Axle construction. No. 1,342,634; June 8; v. 275; p. 252.
Lee, Albert E., Yoker, Scotland, and E. G. Milsted, Epsom, England, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine cabinet or casing. No. 1,342,820; June 8; v. 275; p. 290.
Lee, Albert H., Portland, Oreg. Tongs. No. 1,343,057; June 8; v. 275; p. 336.
Lee, Albert P., assignor to Lee Loader & Body Co., Chicago, Ill. Movable loading-hopper. No. 1,342,919; June 8; v. 275; p. 309.
Lee, Charles G. (See Wilson, C. H., and Lee.)
Lee Loader & Body Co. (See Lee, Albert P., assignor.)
Le Gear, Harvey, Chicago, Ill. Clam-shell bucket. No. 1,342,996; June 8; v. 275; p. 325.
Legg, Thomas A., Lumberton, Miss. Flue-pan. No. 1,342,918; June 8; v. 275; p. 309.
Leiman, Gustave A., New York, N. Y. Machine for making hollow glass bodies. No. 1,342,821; June 8; v. 275; p. 290.
Leinweber, Curtis H., *et al.*, executors. (See Leinweber, Frederick H.)
Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Internal-combustion engine. No. 1,342,553; June 8; v. 275; p. 237.
Leinweber, Victor H., *et al.*, executors. (See Leinweber, Frederick H.)
Lemoine, Jules L., Paris, France. Smooth-band conveyer or elevator. No. 1,342,684; June 8; v. 275; p. 262.
Leopold, George O. (See Fegley, T. J., and Leopold.)
Lerch, William F., Hartford, Conn. Liquid-dispensing device. No. 1,343,085; June 8; v. 275; p. 342.
Lester, George C. (See Helling, Charles H., assignor.)
Levangie, John M., South Braintree, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,342,685; June 8; v. 275; p. 262.
Levin, Joseph, Baltimore, Md. Parasol. No. 1,342,451; June 8; v. 275; p. 217.
Levine, Harry, Brooklyn, N. Y. Envelop-machine. No. 1,343,146; June 8; v. 275; p. 354.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-indicating apparatus. No. 1,342,635; June 8; v. 275; p. 252.
Liebers, Meyer, Yonkers, N. Y., assignor of one-half to H. Cole, Brooklyn, N. Y., and one-half to W. R. Osborn, New York, N. Y. Hairpin. No. 1,342,822; June 8; v. 275; p. 290.
Liechty, Henry, Louisville, Ohio. Horsetail-holder. No. 1,343,147; June 8; v. 275; p. 354.
Ligirtner, Arthur D., assignor to The Willys-Overland Company, Toledo, Ohio. Rope-clamp. No. 1,343,177; June 8; v. 275; p. 360.
Lindenmuth, Harry D., Fleming, Pa. Bushing-remover. No. 1,342,852; June 8; v. 275; p. 296.
Lindgren, Bror J., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Automatic clutch control for power-presses. No. 1,342,965; June 8; v. 275; p. 318.
Linograph Company, The. (See Peterson, Hans, assignor.)
Linotype and Machinery Limited. (See Billington, John E., assignor.)
Lipps, Evrah C., assignor to Packard Motor Car Company, Detroit, Mich. Metal-welding. No. 1,342,717; June 8; v. 275; p. 268.
Livingston, Stanley D., and C. E. Stahl, assignors to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Lock mechanism. No. 1,343,187; June 8; v. 275; p. 362.
Loeb-Strongson Corporation. (See Strongson, Herman L., assignor.)
Long, Charles M., Keota, Iowa, and M. V. Long, Rock Island, Ill. Weeding attachment for cultivators. No. 1,343,058; June 8; v. 275; p. 337.
Long, Martin V. (See Long, Charles M. and M. V.)
Long, Ralph A. (See Given, G. C., McQuaid, and Long.)
Loose Wiles Biscuit Company. (See Shillito, James T., assignor.)
Louden, William, Fairfield, Iowa. Device for bending metallic track-rails. No. 1,342,554; June 8; v. 275; p. 237.
Louison, Alfred B., Rockford, Ill. Crutch. No. 1,342,506; June 8; v. 275; p. 227.
Louvrier, François, Paimboeuf, France. Electrometallurgical furnace. No. 1,342,636; June 8; v. 275; p. 252.
Love, Archie F., and J. Nicoletti, assignors to Eastman Kodak Company, Rochester, N. Y. Press-guard. No. 1,343,178; June 8; v. 275; p. 360.

Lovejoy, Frank W., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 1,342,590; June 8; v. 275; p. 244.

Lukens, William L. (See Sullivan, F. A., and Lukens.)

Lundell, Alben E., and E. H. Clark, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,342,823; June 8; v. 275; p. 291.

Lundén, Harald L. R. (See Thorssell, C. T., and Lundén.)

Lussier, Henry, Salem, assignor to Draper Corporation, Hopedale, Mass. Stopping mechanism for looms. No. 1,342,555; June 8; v. 275; p. 237.

Lutz, William H., Philadelphia, Pa. Rug-rolling machine. No. 1,342,556; June 8; v. 275; p. 237.

McCallum, Edgar, Boston, assignor of one-half to J. A. Sherman, Worcester, Mass. Holder. No. 1,342,853; June 8; v. 275; p. 296.

McCarroll, Edward W., Pittsburgh, Pa. Adjustable mirror attachment. No. 1,342,854; June 8; v. 275; p. 297.

McCauley, John, New York, N. Y. Folding crate. No. 1,342,750; June 8; v. 275; p. 275.

McCausland, William A., Pittsburgh, Pa. Well-drilling tool. No. 1,342,855; June 8; v. 275; p. 297.

McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Door and the like. No. 1,342,751; June 8; v. 275; p. 275.

McCormick, John E. (See Hale, D. E., and McCormick.)

McCoy, Eugene, Staples, Minn. Package-carrier for automobiles. No. 1,342,557; June 8; v. 275; p. 238.

McCracken, John A., Rahway, N. J. Sewing-machine support. No. 1,342,686; June 8; v. 275; p. 262.

McCutchan, Harvey S., assignor to Kerosene Burning Carburetor Company, Detroit, Mich. Carbureter control. No. 1,342,966; June 8; v. 275; p. 318.

McCutchen, Charles G., assignor to The Highway Tractor Company, Indianapolis, Ind. Motor-truck. No. 1,342,752; June 8; v. 275; p. 276.

McDowell, Albert, assignor to T. Bradley, Los Angeles, Calif. Wrench. No. 1,342,856; June 8; v. 275; p. 297.

McGeorge, William C., assignor of one-half to R. T. Ash, San Francisco, Calif. Non-skid device. No. 1,342,753; June 8; v. 275; p. 276.

McGillivray, James, South Chicago, Ill. Valve device. No. 1,342,900; June 8; v. 275; p. 306.

McManama, John W., Waltham, assignor of one-third to S. W. Simonds and one-third to F. A. Barbey, Cambridge, Mass. Street-railway rail. No. 1,343,001; June 8; v. 275; p. 326.

McMaster, Henry, Highland Park, assignor of one-half to J. W. Davis, Detroit, Mich. No. 1,342,967; June 8; v. 275; p. 319.

McMillan, John L., Syracuse, N. Y. Loose-leaf device. No. 1,342,637; June 8; v. 275; p. 252.

McMurray, Samuel M., Smyrna, Tenn. Pigment-powder for making smear-proof impressions. No. 1,342,638; June 8; v. 275; p. 252.

McNamara, Raymond F., assignor to Maxwell Motor Company, Inc., Detroit, Mich. Towing connection for vehicles. No. 1,342,507; June 8; v. 275; p. 227.

McNicholas, Hiram, Connell, Wash. Cam-operated circuit-closer. No. 1,342,591; June 8; v. 275; p. 244.

McOmber, William H., East Chicago, Ind. Awning. No. 1,342,452; June 8; v. 275; p. 217.

McQuaid, Howard S. (See Given, G. C., McQuaid, and Long.)

Macbeth-Evans Glass Company. (See Evans, Howard S., assignor.)

MacNichol, George P., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Glassware-forming mechanism. No. 1,343,179; June 8; v. 275; p. 360.

Maddox, Robert D., U. S. Army. Drill. No. 1,343,180; June 8; v. 275; p. 360.

Magidson, Frank, Uniontown, Pa. Spring-motor mechanism. No. 1,342,857; June 8; v. 275; p. 297.

Manelich, John, Youngsville, Pa. Fence-panel. No. 1,342,453; June 8; v. 275; p. 217.

Manson, Marsden, Berkeley, Calif. Demonstration-globe. No. 1,343,181; June 8; v. 275; p. 361.

Marcuse, Moses M., New York, N. Y. Reversible pouring-spout for cans. No. 1,342,639; June 8; v. 275; p. 252.

Markert, John P., Brooklyn, N. Y. Container structure. No. 1,343,002; June 8; v. 275; p. 326.

Martel, Fred J. (See Wenner, F. J., and Martel.)

Martin, Edgar W., *et al.*, trustees. (See Goodwin, Charles, assignor.)

Martin, Lawrence C., *et al.*, trustees. (See Goodwin, Charles, assignor.)

Maryland Toy Manufacturing Company. See Dorsk, Frank L., assignor.)

Massey Concrete Products Company. (See Hobson, John S., assignor.)

Maxwell Motor Company. (See McNamara, Raymond F., assignor.)

Maytag, Fred L., Newton, Iowa. Deflooder for internal-combustion engines. No. 1,342,558; June 8; v. 275; p. 238.

Medbery, Clinton A., San Antonio, Tex. Lock-washer. No. 1,342,559; June 8; v. 275; p. 238.

Medley, Granville E., assignor of one-fourth to M. Dennis, and one-fourth to M. Dennis, Hopkinsville, Ky. Speed-change gear. No. 1,342,920; June 8; v. 275; p. 309.

Meilicke, Adolph H., Baring, Mo. Corn-binder attachment. No. 1,342,640; June 8; v. 275; p. 253.

Melanowski, Leo, assignor to The Citizens Savings and Trust Company, operating trustee, Cleveland, Ohio. Power-transmitting mechanism. No. 1,342,687; June 8; v. 275; p. 262.

Melanson, Philip P., Moncton, New Brunswick, Canada. Stove. No. 1,342,921; June 8; v. 275; p. 310.

Mellor, Stanley C. (See Shearer, John A., assignor.)

Mengel, William R., assignor to Autopticon Company, Chicago, Ill. Stereopticon. No. 1,342,560; June 8; v. 275; p. 238.

Mengel, William R., Chicago, Ill. Stereopticon. No. 1,342,561; June 8; v. 275; p. 239.

Merrill, William B. (See Somes, Walter F., assignor.)

Meyer, August J., Chicago, Ill. Tire. No. 1,342,562; June 8; v. 275; p. 239.

Meyer, George L., Milwaukee, Wis. Gas-engine. No. 1,342,922; June 8; v. 275; p. 310.

Mieloch, Andrew and A. A., St. Paul, Minn. Spreader for tire-casings. No. 1,342,565; June 8; v. 275; p. 239.

Mieloch, Anton A. (See Mieloch, Andrew and A. A.)

Miles, William H., Cleveland, Ohio. Newspaper-vending machine. No. 1,342,858; June 8; v. 275; p. 298.

Miller, Fred C., *et al.* (See Jonsson, Jonas, assignor.)

Miller, George E., Etna, Pa. Tap. No. 1,342,754; June 8; v. 275; p. 276.

Miller, James, Derby, England, assignor of one-half to G. Fletcher & Company, Limited. Trash-turner. No. 1,343,059; June 8; v. 275; p. 337.

Mills, H. S. (See Sandell, Henry K., assignor.)

Mills, Stanley W. (See Schaaf, A. E., and Mills.)

Millward, John R. See Millward, Walter H. and J. R.)

Millward, Walter H. and J. R., Newark, N. J. Bicycle. No. 1,342,688; June 8; v. 275; p. 263.

Milsted, Edmund G. (See Lee, A. E., and Milsted.)

Mix, Robert S., Cohocton, N. Y. Harrow-shoe. No. 1,342,454; June 8; v. 275; p. 217.

Monihan, Daniel J., assignor to Griswold Manufacturing Company, Erie, Pa. Oven. No. 1,342,455; June 8; v. 275; p. 218.

Moolten, Raphael J., New York, N. Y. Sanitary mouth and lip protector. No. 1,342,968; June 8; v. 275; p. 319.

Moore, George, Joplin, Mo. Liquid-distributing apparatus. No. 1,342,859; June 8; v. 275; p. 298.

Moore, Jesse J., Philadelphia, Pa. Automobile-curtain. 1,343,148; June 8; v. 275; p. 354.

Moore, William J. (See Kline, William, assignor.)

More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Clamp. No. 1,342,563; June 8; v. 275; p. 239.

Moreton, Frank, Wilmington, Del. Magnetic valve. No. 1,342,641; June 8; v. 275; p. 253.

Morgan, Henry W., Johnson City, N. Y. Garden-cultivator. No. 1,342,642; June 8; v. 275; p. 253.

Morgen, Simon, Brooklyn, and S. Hoffman, New York, N. Y. Sewing-machine gage. No. 1,343,149; June 8; v. 275; p. 355.

Morris, Urban S., Tulsa, Okla. Pipe-bending mechanism. No. 1,342,564; June 8; v. 275; p. 239.

Morse Instrument Company. (See Morse, Robert V., assignor.)

Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Electric sight-controlling mechanism for anti-aircraft guns. No. 1,343,003; June 8; v. 275; p. 326.

Mortimer, William, and F. Potten, Dover, England. Apparatus for facilitating the landing of aircraft. No. 1,342,860; June 8; v. 275; p. 298.

Morton, Walter S., Harrisburg, Pa. Axle-housing and fifth-wheel construction for motor-trucks. No. 1,342,861; June 8; v. 275; p. 298.

Muck, John, Milwaukee, Wis. Clothespin. No. 1,342,755; June 8; v. 275; p. 276.

Mulas, Andrew, Cleveland, Ohio. Cleansing and polishing composition. No. 1,342,862; June 8; v. 275; p. 298.

Munter, Charles, New York, N. Y. Body-stabilizer. No. 1,342,566; June 8; v. 275; p. 239.

Murphy, Walter P. (See Sisson, Vinton E., assignor.)

Murray, Frank M., Cadyville, N. Y. Wrench. No. 1,342,643; June 8; v. 275; p. 253.

Murray, James G. (See Sawders, F. P., and Murray.)

Musser, Samuel G., Los Angeles, Calif. Amalgamator. No. 1,342,567; June 8; v. 275; p. 240.

Myers, Alfred A., *et al.* (See Keeley, Charles A., assignor.)

Nagel, Henry W., Chicago, Ill., assignor of one-half to A. C. Ronda, Loading device. No. 1,342,456; June 8; v. 275; p. 218.

Narrow Fabric Company, The. (See Plumb, Frederic W., assignor.)

National Bank Book Company. (See Schade, John, assignor.)

National Gauge & Equipment Company. (See Axen, John L., assignor.)

National Malleable Castings Company, The. (See Spence, Hubert L., assignor.)

Neff, George W. B., Sandy, Utah. Leak-stopping composition. No. 1,343,150; June 8; v. 275; p. 355.

Neff, Max, Seattle, Wash. Steel for guitars. No. 1,342,718; June 8; v. 275; p. 269.

Nell, Winfield S., Minot, N. D. Valve-handle. No. 1,343,086; June 8; v. 275; p. 342.

Nelson, Nels. (See Williams, Charlie, assignor.)

New York Belting and Packing Company. (See Ostromislensky, Iwan, assignor.)

Newell, James E. (See Ingram, Sleeper T., assignor.)

Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,342,644; June 8; v. 275; p. 253.

Nicoletti, John. (See Love, A. F., and Nicolettl.)

Niehuus, Richard H., *et al.* (See Shearer, John A., assignor.)

Nikonow, John P. New York, N. Y. Sounding signaling device. No. 1,342,863; June 8; v. 275; p. 298.

Nikonow, John P., New York, N. Y. Electric sadiron. No. 1,342,864; June 8; v. 275; p. 299.

Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)

Niles-Bement-Pond Company. (See Johnson, Sven P., assignor.)

Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)

North Bros. Mf'g Co. (See Fegley, T. J., and Leopold, assignors.)

Northrop, Jonas. (See Draper, C. H., and Northrop.)

Northwest Process Company. (See Schaefer, August, assignor.)

Nutry, John, Ridgewood, N. J. Guard for money-slots and the like. No. 1,343,151; June 8; v. 275; p. 355.

Olson, Magnus E. (See Kidder, Dwight E., assignor.)

Olson, William C., New Bedford, Ill. Pulley attachment for motors. No. 1,343,152; June 8; v. 275; p. 355.

Orcutt Automatic Train Control Company. (See Prince, B. A., and La Count, assignors.)

Ormes, William R., Waltham, Mass. Combined punch and counter-sinking-machine. No. 1,342,865; June 8; v. 275; p. 299.

Orr, William V., Cleveland, Ohio. Suction cleaning device. No. 1,342,592; June 8; v. 275; p. 245.

Orr, William V., Cleveland, Ohio. Vacuum cleaning-machine. No. 1,342,593; June 8; v. 275; p. 245.

Osborn, William R., *et al.* (See Liebers, Meyer, assignor.)

Ossa, Arturo A., Valparaiso, Chile. Extracting copper. No. 1,343,153; June 8; v. 275; p. 355.

Ostmann, Louis W., St. Charles, Mo. Cushion-tire. No. 1,343,154; June 8; v. 275; p. 355.

Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,342,457; June 8; v. 275; p. 218.

Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,342,458; June 8; v. 275; p. 218.

Owen, Clement M., Warrington, England. Liming and other tanning operations upon hides or skins. No. 1,342,866; June 8; v. 275; p. 299.

Pacifice Car & Foundry Co. (See Falco, Frank T., assignor.)

Packard Motor Car Company. (See Lipps, Evrah C., assignor.)

Paggi, Charles. (See Robichaux, S., and Paggi.)

Palmgren, Nils A., Gottenborg, Sweden, assignor to S. K. F. Administrative Company, Inc., New York, N. Y. Double-acting thrust ball-bearing. No. 1,342,756; June 8; v. 275; p. 276.

Palmros, Alexander, assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Means for applying electric motors to winding-engines. No. 1,342,757; June 8; v. 275; p. 277.

Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Method and machine for cracking nuts. No. 1,342,689; June 8; v. 275; p. 263.

Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Nut-cracking machine. No. 1,342,690; June 8; v. 275; p. 263.

Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Method and machine for cracking nuts. No. 1,342,691; June 8; v. 275; p. 263.

Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Nut-cracking machine. No. 1,342,692; June 8; v. 275; p. 263.

Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Apparatus for removing the outer shell or husk from palm-nuts. No. 1,342,693; June 8; v. 275; p. 264.

Paper Bottle and Can Company. (See Selz, Andrew J., assignor.)

Paragon Electric Company. (See Pen Dell, Charles W., assignor.)

Parker, Earle D. (See Colman, H. D., Peterson, and Parker.)

Parkin, John, Jr., San Rafael, Calif. Variable-resistance device. No. 1,342,594; June 8; v. 275; p. 245.

Pasinski, Walter J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,342,459; June 8; v. 275; p. 218.

Paul, Louis, assignor of one-half to J. Satre, Spokane, Wash. Smoke-reducer. No. 1,342,867; June 8; v. 275; p. 299.

Payne, Thomas F., Pittsburgh, Pa. Puddling-iron. No. 1,342,694; June 8; v. 275; p. 264.

Pearson, Gustave C., Denver, Colo. Individual-bottle carrier. No. 1,342,568; June 8; v. 275; p. 240.

Peelle Company, The. (See Wexler, Benjamin, assignor.)

Pemble, Edward E., Vancouver, British Columbia, Canada. Window-frame for vehicle-curtains. No. 1,342,460; June 8; v. 275; p. 218.

Pen Dell, Charles W., Chicago, Ill., assignor to Paragon Electric Company, Grounding device. No. 1,342,645; June 8; v. 275; p. 254.

Pentecost, Arthur, East Orange, N. J., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,342,969; June 8; v. 275; p. 319.

Perdala, Fred, Newark, N. J. Resilient tire. No. 1,343,155; June 8; v. 275; p. 356.

Peremi, Edward, Brooklyn, N. Y. Repeating device for sound-reproducing machines. No. 1,343,087; June 8; v. 275; p. 342.

Perry, Lindon A. (See Clifford, F. J., and Perry.)

Peters, George M., Kirkwood, Mo. Cushion-wheel. No. 1,342,461; June 8; v. 275; p. 218.

Petersen, Hans, assignor to The Linograph Company, Davenport, Iowa. Mold. No. 1,342,595; June 8; v. 275; p. 245.

Peterson, Burt A. (See Colman, H. D., Peterson, and Parker.)

Pfaudler Company, The. (See Douglas, Ira C., assignor.)

Pick, Paul W., Portland, Oreg. Sanitary non-spillable milk-bucket. No. 1,342,569; June 8; v. 275; p. 240.

Pickens, Julius A., and W. F. Hester, Easley, S. C. Elevator mechanism. No. 1,342,596; June 8; v. 275; p. 245.

Pinto, Carlos P., Buenos Aires, Argentina. Revolver and similar arms. No. 1,342,923; June 8; v. 275; p. 310.

Pitkin, George P., Bergenfield, N. J. Temperature-indicator for engine-water circulation. No. 1,343,088; June 8; v. 275; p. 343.

Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)

Pittsburgh Steel Products Company. (See Wikstrom, Malcolm C., assignor.)

Plumb, Frederic W., assignor to The Narrow Fabric Company, Wyomissing, Pa. Rubber-core-tensioning mechanism for braiding-machines. No. 1,342,646; June 8; v. 275; p. 254.

Pneumatic Process Flotation Company. (See Gahl, R., and Haskell, assignors.)

Pneumelectric Machine Company, The. (See Palmros, Alexander, assignor.)

Popper, Isaac C., and C. H. Bayer, New York, N. Y. Heater. No. 1,342,570; June 8; v. 275; p. 240.

Porter, Edgar S., Clifton, Colo. Machine for assorting fruit according to size. No. 1,342,571; June 8; v. 275; p. 241.

Post, Howard A., Kansas City, Mo. Foot-treating appliance. No. 1,342,597; June 8; v. 275; p. 245.

Potten, Frederick. (See Mortimer, W., and Potten.)

Pouisen, Oscar, *et al.*, administrators. (See Krogh, Ferdinand W.)

Powers, James M., Miami, Fla. Hatband. No. 1,342,924; June 8; v. 275; p. 310.

Pratt, Charles M., Towanda, Pa. Stamp-moistener. No. 1,342,824; June 8; v. 275; p. 291.

Price, Raymond B., New York, N. Y., assignor to The Goodyear's Metallic Rubber Shoe Company. Last for footwear. No. 1,342,970; June 8; v. 275; p. 319.

Prideaux, William de C., Weymouth, England. Construction of link for ammunition-belts for machine-guns. No. 1,343,060; June 8; v. 275; p. 337.

Prince, Benjamin A., and E. L. La Count, assignors to Orcutt Automatic Train Control Company, Worcester, Mass. Train-controlling system. No. 1,342,572; June 8; v. 275; p. 241.

Printograph Manufacturing Co. (See Duscher, Ernest, assignor.)

Prinz, Charles C., Louisville, Ky. Record-cleaner. No. 1,343,156; June 8; v. 275; p. 356.

Puchazckevski, Vladyslaw, Moutreal, Quebec, Canada. Pot-lifter. No. 1,342,758; June 8; v. 275; p. 277.

Pugh, Morton E., Chicago, Ill. Excavating-dipper. No. 1,342,759; June 8; v. 275; p. 277.

Purdy, James L., Union, Wash. Saw-tiling device. No. 1,342,462; June 8; v. 275; p. 219.

Putnam, James K., Tulsa, Okla. Pump. No. 1,343,157; June 8; v. 275; p. 356.

Quality Brands Company, The. (See Kost, S. A., and Yaeger, assignors.)

Railway's Accessories Company. (See Wightman, Merle J., assignor.)

Rausch, Carl A., Leipzig-Gohlis, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Boarding-machine. No. 1,342,760; June 8; v. 275; p. 277.

Ray, William F., Chicago, Ill. Apparatus for manufacturing tires or interliners. (Reissue.) No. 14,879; June 8; v. 275; p. 363.

Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, assignors to Redmantol Chemical Products Company, Chicago, Ill. Cigarette-holder. No. 1,342,868; June 8; v. 275; p. 299.

Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)

Reese, James A., Blytheville, Ark, assignor to American Pipe Machine Company. Machine for threading pipes. No. 1,343,158; June 8; v. 275; p. 356.

Rehrig, William J., Los Angeles, Calif. Apparatus for making wood separators for storage batteries, &c. No. 1,342,925; June 8; v. 275; p. 310.

Reitzel, George A., St. Louis, Mo. Shoe shining or polishing brush. No. 1,342,971; June 8; v. 275; p. 319.

Relay Automatic Telephone Company, The. (See Bygrave, L. C., and Inman.)

Remington Typewriter Company. (See Bridgwater, Herbert E., assignor.)

Research Corporation. (See Squires, Harold W., assignor.)

Reed, Melvin B., Latrobe, Pa. Nut-lock. No. 1,342,508; June 8; v. 275; p. 228.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Machine for cutting agates and similar stones. No. 1,342,647; June 8; v. 275; p. 254.
Remington Typewriter Company. (See Seib, George A., assignor.)
Remington Typewriter Company. (See Smith, Arthur W., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Revega, Efrem, Detroit, Mich. Match-box. No. 1,342,695; June 8; v. 275; p. 264.
Revolvator Company. (See Boehck, William E., assignor.)
Reynolds Engineering Company. (See Brown, Harold, assignor.)
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,342,573, June 8; v. 275; p. 241.
Ricardo, Harry R., London, England. Balancing of reciprocating engines No. 1,342,648; June 8; v. 275; p. 254.
Ricardo, Harry R., London, England. Means for heating the charges in internal-combustion engines. No. 1,342,869; June 8; v. 275; p. 299.
Rice, Frank L., Chicago, Ill., assignor to J. B. Clow & Sons. Radiator. No. 1,342,509; June 8; v. 275; p. 228.
Richards, Willard F., Depew, N. Y., assignor by mesne assignments, to The Atlantic Hand Brake Corporation. Hand-brake. No. 1,343,061; June 8; v. 275; p. 337.
Richardson, Orlo D., Chicago, Ill. Tracton-vehicle. No. 1,342,761; June 8; v. 275; p. 278.
Rivett Lathe and Grinder Company. (See Halstead, Frederick H., assignor.)
Road-A-Meter Company. (See Castner, William H., assignor.)
Roan, Harry A., Brooking, Saskatchewan, Canada. Steering device. No. 1,343,062; June 8; v. 275; p. 337.
Robeson, William B., *et al.* (See Sarjeant, Alexander J., assignor.)
Robichaux, Sosthene, and C. Paggi, Saratoga, Tex. Pipepuller. No. 1,342,870; June 8; v. 275; p. 300.
Rockwell & Company. (See Collett, Frederick W. H., assignor.)
Rodriguez, Eloy, Fajardo, Porto Rico. Double-acting high-pressure pump. No. 1,342,719; June 8; v. 275; p. 269.
Rozers, Stewart A., Buenos Aires, Argentina. Cable or monorail tramway and vehicles for the same. No. 1,342,926; June 8; v. 275; p. 311.
Ronda, August C. (See Nagel, Henry W., assignor.)
Ruggles, William G., New York, N. Y. Orientator. No. 1,342,871; June 8; v. 275; p. 300.
Rose, Aaron M., *et al.* (See Sarjeant, Alexander J., assignor.)
Rosedale Foundry & Machine Company. (See Holt, Harris B., assignor.)
Ross, Oscar A. (See Gerli, P., and Ross.)
Ruquet, Edward J., Jr., New York, N. Y. Clamp-bolt. No. 1,343,089; June 8; v. 275; p. 343.
Russell, Guy M., Rochester, assignor to American Piano Company, New York, N. Y. Pneumatic pump. No. 1,343,004; June 8; v. 275; p. 326.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Co., Chicago, Ill. Car-roof. No. 1,342,510; June 8; v. 275; p. 228.
Ruthven, Arthur T., Kansas City, Mo. Well-plugging apparatus. No. 1,342,927; June 8; v. 275; p. 311.
Ryan, Joseph F., Chicago, Ill. Clutch-controlling mechanism. No. 1,342,762; June 8; v. 275; p. 278.
Sakai Kako Celluloid Kwaisha, Ltd. (See Yanagihara, Kichibei, assignor.)
Salerno, Ferdinando G., Chicago, Ill. Depositing-machine. No. 1,342,598; June 8; v. 275; p. 246.
Saltzman, Melville J., Alvada, Ohio. Power-transmission device. No. 1,342,649; June 8; v. 275; p. 254.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Device for forming grooves in sound-records. No. 1,342,872; June 8; v. 275; p. 300.
Sands, Holton E. (See Sherwen, Peter, assignor.)
Sandstrom, Barney, Sultana, Calif. Land-scraper or leveling-machine. No. 1,343,159; June 8; v. 275; p. 357.
Santa Emma, Pasquale, Venice, Calif. Cornet-mute. No. 1,342,846; June 8; v. 275; p. 295.
Sanwo, Katsujiro, Fresno, Calif. Tray-piling machine. No. 1,342,463; June 8; v. 275; p. 219.
Sarjeant, Alexander J., assignor of one-fourth to W. B. Robeson and one-fourth to A. M. Rose, Port Huron, Mich. Apparatus for applying and removing hose-couplings, nipples, bands, &c. No. 1,342,763; June 8; v. 275; p. 278.
Satre, John. (See Paul, Louis, assignor.)
Saucke, Herman, New York, N. Y. Pipe-fitting. No. 1,342,825; June 8; v. 275; p. 291.
Sauvage, William H., Flushing, N. Y. Brake mechanism. No. 1,342,599; June 8; v. 275; p. 246.
Sauvage, William H., Flushing, N. Y. Hand-brake. No. 1,343,005; June 8; v. 275; p. 327.
Sauvage, William H., Buffalo, N. Y. Hand-brake. No. 1,343,006; June 8; v. 275; p. 327.
Sauvage, William H., Flushing, N. Y. Hand-brake. No. 1,343,007; June 8; v. 275; p. 327.
Sauvage, William H., Buffalo, N. Y. Hand-brake. No. 1,343,008; June 8; v. 275; p. 327.
Sauvage, William H., Flushing, assignor to Atlantic Hand Brake Corporation, Buffalo, N. Y. Hand-brake. No. 1,343,009; June 8; v. 275; p. 327.
Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Muffler. No. 1,342,464; June 8; v. 275; p. 219.
Scanlan, Joseph, Brooklyn, N. Y. Velocipede. No. 1,342,720; June 8; v. 275; p. 269.
Schaaf, Albert E., and S. W. Mills, Indianapolis, Ind. Tractor. No. 1,342,764; June 8; v. 275; p. 278.
Schaaf, Albert E., and S. W. Mills, assignors to Highway Tractor Company, Indianapolis, Ind. Tractor. No. 1,342,765; June 8; v. 275; p. 279.
Schade, John, assignor to National Bank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,342,766; June 8; v. 275; p. 279.
Schaefer, August, assignor to Northwest Process Company, Portland, Oreg. Apparatus for recovering volatile and fermentable matter from liquids. No. 1,342,721; June 8; v. 275; p. 269.
Schell, Theodore, assignor to American Steel Products Co., Macomb, Ill. Poultry-fountain and heater therefor. No. 1,343,010; June 8; v. 275; p. 327.
Schillberg, Melker W., Stratford township, Fairfield county, Conn. Tool-holder. No. 1,342,600; June 8; v. 275; p. 246.
Schlegel, Mathew, Portland, Oreg. Folding chair. No. 1,342,650; June 8; v. 275; p. 255.
Schlesinger, William A., Denver, Colo., assignor, by mesne assignments, to The Cold Light Manufacturing Company Inc. Luminous indicating device and making same. No. 1,342,767; June 8; v. 275; p. 279.
Schmidt, Edward J., Louisville, Ky. Pressure-regulator. No. 1,343,160; June 8; v. 275; p. 357.
Schmidt, Karl, Neuruppin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Chemical fire-extinguisher. No. 1,342,768; June 8; v. 275; p. 279.
Schniederer, Joseph, St. Louis, Mo. Loading and unloading device. No. 1,342,826; June 8; v. 275; p. 291.
Schmitz, Charles A. (See Bowman, Edwin L., assignor.)
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Cylinder for internal-combustion engines. No. 1,343,161; June 8; v. 275; p. 357.
Schneider, Peter, Oswego, N. Y. Car-door lock. No. 1,342,465; June 8; v. 275; p. 219.
Schultz, George H. (See Isphording, R. C., and Schultz.)
Schulz, Carl F., Brooklyn, N. Y. Carburetor for gasolene-engines. (Reissue.) No. 14,880; June 8; v. 275; p. 363.
Schutze, Oscar G., Forestville, near Adelaide, South Australia, Australia. Construction of ophthalmic mountings. No. 1,343,090; June 8; v. 275; p. 343.
Schwarcman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Food preparation and making same. No. 1,342,827; June 8; v. 275; p. 291.
Schweitzer, Edmund O., Chicago, Ill. Overload-circuit-breaking apparatus. (Reissue.) No. 14,881; June 8; v. 275; p. 363.
Schweyer, Daniel H., Easton, Pa. Train-controlling apparatus. No. 1,342,873; June 8; v. 275; p. 300.
Sears, Sydney L., Lyndhurst, N. J., assignor to United Bottle Machinery Co., New York, N. Y. Glass-discharging device. No. 1,343,183; June 8; v. 275; p. 361.
Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Change-speed mechanism. No. 1,342,928; June 8; v. 275; p. 311.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition and making same. No. 1,342,601; June 8; v. 275; p. 246.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition. No. 1,342,602; June 8; v. 275; p. 246.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester N. Y. Cellulose-acetate composition. No. 1,342,603; June 8; v. 275; p. 246.
Selb, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,466; June 8; v. 275; p. 220.
Sellew, Roland W., Middletown, assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-lapping machine. No. 1,343,011; June 8; v. 275; p. 328.
Selz, Andrew J., New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del. Paper bottle. No. 1,342,769; June 8; v. 275; p. 279.
Selz, Andrew J., New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del. Paper bottle. No. 1,342,770; June 8; v. 275; p. 279.
Sengebusch, Hans, Chicago, Ill. Electric safety-razor. No. 1,343,012; June 8; v. 275; p. 328.
Sessions, Edson O., Chicago, Ill. Locking-switch. No. 1,342,972; June 8; v. 275; p. 319.
Sessions, Frank L., Lakewood, Ohio. Float-valve mechanism. No. 1,342,874; June 8; v. 275; p. 301.
Seymour, Benjamin F., assignor to The International Army and Navy Equipment Company, Denver, Colo. Extensible mast. No. 1,342,828; June 8; v. 275; p. 291.
Shamp, Carroll C., *et al.* (See Keeley, Charles A., assignor.)
Shank, McConnell, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Terminal seal for storage batteries. No. 1,342,511; June 8; v. 275; p. 228.

Shanks, John N., Spokane, Wash., assignor to Inland Automatic Thrasher and Machinery Company, Limited, Post Falls, Idaho. Feed mechanism for threshing-machines. No. 1,342,574; June 8; v. 275; p. 241.
Shearer, John A., Henley Beach, assignor of one-third to R. H. Niehuus, St. Peters, and one-third to S. C. Mellor, Fulham, South Australia, Australia. Machine for making butter. No. 1,343,091; June 8; v. 275; p. 343.
Shely, William A., Chicago, Ill. Machine for treating or breaking and scutching hemp or other fibrous material. No. 1,342,771; June 8; v. 275; p. 280.
Shely, William A., Chicago, Ill. Machine for breaking and scutching hemp or other fibrous material. No. 1,342,772; June 8; v. 275; p. 280.
Shepard, Stanley J., Porterville, Calif. Means for securing heads to handles of tools. No. 1,342,929; June 8; v. 275; p. 311.
Sherman, John A. (See McCallum, Edgar, assignor.)
Sherwen, Peter, assignor of one-half to H. E. Sands, Vancouver, British Columbia, Canada. Air-regulator for ventilators or heaters. No. 1,343,162; June 8; v. 275; p. 357.
Shillito, James T., St. Louis, assignor to Loose Wiles Biscuit Company, Kansas City, Mo. Cake-cutting machine. No. 1,342,875; June 8; v. 275; p. 301.
Shinn, George C., Vancouver, Wash. Heater for intake-manifolds. No. 1,343,092; June 8; v. 275; p. 343.
Shoultz, Fred R., Lansing, Mich. Chick-feeder. No. 1,343,093; June 8; v. 275; p. 344.
Shreiner, Elmer E., Brooklyn, N. Y. Hinge for eyeglass or spectacle frames. No. 1,342,973; June 8; v. 275; p. 320.
Shriver, Harry T. (See Atkins, Earl F., assignor.)
Shriver, Harry T., Llewellyn Park, West Orange, N. J. Filter-press. No. 1,342,829; June 8; v. 275; p. 292.
Simonds, Samuel W., *et al.* (See McManama, John W., assignor.)
Sims, Edward J., Brooklyn, N. Y. Accommodation-ladder for marine vessels. No. 1,343,094; June 8; v. 275; p. 344.
Sinderson, John B., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-clamps. No. 1,342,876; June 8; v. 275; p. 301.
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Singer Manufacturing Company, The. (See Lee, A. E., and Milsted, assignors.)
Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)
Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. End construction for railway-cars. No. 1,342,604; June 8; v. 275; p. 246.
S. K. F. Administrative Company. (See Palmgren, Nils A., assignor.)
Skinderviken, Johan, assignor of one-half to O. Eklo, Chicago, Ill. Cigar holder and saver. No. 1,342,512; June 8; v. 275; p. 229.
Slawinski, Zigmunt, Plainfield, N. J. Skate. No. 1,342,773; June 8; v. 275; p. 281.
Smith, Allen, Jr., San Diego, Calif. Insect-swatter. No. 1,342,974; June 8; v. 275; p. 320.
Smith Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,513; June 8; v. 275; p. 229.
Smith, George A., Omaha, Nebr. No. 1,343,163; June 8; v. 275; p. 357.
Smith, George A., Omaha, Nebr. Drum-beater. No. 1,343,164; June 8; v. 275; p. 358.
Smith, Joseph V., Pittsburgh, Pa. Implement-handle. No. 1,342,467; June 8; v. 275; p. 220.
Smith, Theodore M., assignor of one-half to H. Hagenau, New York, N. Y. Educational appliance. No. 1,343,095; June 8; v. 275; p. 344.
Smith, Verna D. (See Smith, William B. and V. D.)
Smith, William B. and V. D., Lansing, Mich. Mail-box. No. 1,342,468; June 8; v. 275; p. 220.
Smith, William R. (See Anderson, G. J., and Smith.)
Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,342,830; June 8; v. 275; p. 292.
Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,342,831; June 8; v. 275; p. 292.
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. No. 1,343,063; June 8; v. 275; p. 338.
Snow, David L., Philadelphia, Pa. Fabric-printing machine. No. 1,342,722; June 8; v. 275; p. 269.
Sobin, Frank, Coatesville, Pa. Lock. No. 1,343,064; June 8; v. 275; p. 338.
Soderberg, Andrew, Berkeley, Calif. Tray-turner. No. 1,342,774; June 8; v. 275; p. 281.
Somes, Walter F., Boston, assignor to W. B. Merrill, Newton, Mass. Lubricating apparatus. No. 1,342,605; June 8; v. 275; p. 246.
Spence, David W. (See Jones, O. B., and Spence.)
Spence, Hubert L., assignor to The National Malleable Castings Company, Cleveland, Ohio. Yoke for railway-cars. No. 1,342,696; June 8; v. 275; p. 254.
Spence, Hubert L., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-yoke. No. 1,342,697; June 8; v. 275; p. 265.
Spencer Kellogg & Sons. (See Schwarcman, Alexander, assignor.)
Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
Speyer, John E., Le Grand, assignor of one-half to A. L. Hedges, San Francisco, Calif. Soft-collar button. No. 1,343,096; June 8; v. 275; p. 344.
Spinasse, Arthur E., Mount Vernon, Ohio. Glass-drawing apparatus. No. 1,343,186; June 8; v. 275; p. 361.
Spirito, Ermogene, Pasadena, Calif. Tomato-masher. No. 1,342,877; June 8; v. 275; p. 301.
Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
Spohr, John, assignor to H. R. Bruah, Chicago, Ill. Front-axle brace. No. 1,342,514; June 8; v. 275; p. 229.
Spreyer, George S., Fallon, Nev. Tail-board scraper. No. 1,343,097; June 8; v. 275; p. 344.
Squires, Harold W., Amityville, assignor to Research Corporation, New York, N. Y. Apparatus for the electrical treatment of gases. No. 1,342,651; June 8; v. 275; p. 255.
Stahl, Charles E. (See Livingston, S. D., and Stahl.)
Standard Parts Company, The. (See Bryant, Richard S., assignor.)
Stanley, Freelan O., Newton, assignor to Unit Railway Car Company, Cambridge, Mass. Steam-boiler. No. 1,342,606; June 8; v. 275; p. 247.
Stark, John R., assignor to Webster Electric Company, Racine, Wis. Ignition-magneto. No. 1,342,607; June 8; v. 275; p. 247.
Steele, Lawrence C., Pittsburgh, Pa. Rolling-mill. No. 1,342,608; June 8; v. 275; p. 247.
Steinen, Otto. (See La Fontaine, George A., assignor.)
Stephens Manufacturing Company. (See Stephens, Thomas J., assignor.)
Stephens, Thomas J., New Castle, Pa., assignor to Stephens Manufacturing Company, Los Angeles, Calif. Process and apparatus for burning gaseous fuel with high efficiency. No. 1,343,098; June 8; v. 275; p. 345.
Stevens, Richard H., Philadelphia, Pa. Gate-operating device for shafts. No. 1,342,832; June 8; v. 275; p. 292.
Stevens, William H., New York, N. Y. Clip or clasp. No. 1,342,698; June 8; v. 275; p. 265.
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,342,469; June 8; v. 275; p. 220.
Stockwell, Millard E., Monrovia, Calif. Internal-combustion engine. No. 1,342,723; June 8; v. 275; p. 270.
Stogoff, Peter E., New York, N. Y. Submarine radio-system. No. 1,343,165; June 8; v. 275; p. 358.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Conveying and discharging apparatus. No. 1,342,975; June 8; v. 275; p. 320.
Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company. Work-guide for sewing-machines. No. 1,342,775; June 8; v. 275; p. 281.
Strong, William J. H. (See Freeland, Lloyd D., assignor.)
Strongson, Herman L., Springfield, Mass., assignor to Loeb-Strongson Corporation, New York, N. Y. Slip-cover for cans. No. 1,343,099; June 8; v. 275; p. 345.
Stroud, William. (See Barr, A., and Stroud.)
Sturm, James, Tampico, Ill. Trousers-supporting device. No. 1,342,930; June 8; v. 275; p. 311.
Sturtevant Mill Company. (See Sturtevant, T. J., and Doyle, assignors.)
Sturtevant, Thomas J., Wellesley, and W. T. Doyle, assignors to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,342,470; June 8; v. 275; p. 221.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Auxiliary apparatus for condensers. No. 1,342,471; June 8; v. 275; p. 221.
Sullivan, Frank A., and W. L. Lukens, Bethlehem, assignors to Bethlehem Steel Company, South Bethlehem, Pa., Pusc. No. 1,342,652; June 8; v. 275; p. 255.
Sundre, Olaf E., Arlington, Minn. Automatic poultry-sprayer. No. 1,342,776; June 8; v. 275; p. 281.
Sutherland, Frank, Brooklyn, N. Y. Loose-leaf binder. No. 1,342,833; June 8; v. 275; p. 292.
Suvchiro, Kuniuke, Eureka, Utah. Doll-house. No. 1,343,065; June 8; v. 275; p. 338.
Svenska Aktiebolaget Nobel-Diesel. (See Lagersten, Frans A., assignor.)
Sweetland, Ernest J., Montclair, N. J., assignor by mesne assignments, to United Filters Corporation. Filter. No. 1,343,182; June 8; v. 275; p. 361.
Swenson, Albin, New York, N. Y. Automatic brake. No. 1,342,699; June 8; v. 275; p. 265.
Sybert, Norman L., Kildare, Okla. Spool for oil-well derricks. No. 1,342,653; June 8; v. 275; p. 255.
Synstelien, Bernhard J., Fonda, Iowa. Combined locking and lifting device for truck-bodies. No. 1,342,472; June 8; v. 275; p. 221.
Tabler, Harry C. (See Dougherty, J. M., and Tabler.)
Tabulating Machine Company, The. (See Lake, Clair D., assignor.)
Talbot, Edna E. (See Talbot, James A., assignor.)
Talbot, James A., assignor to E. E. Talbot, Walla Walla, Wash. Toy gun. No. 1,342,700; June 8; v. 275; p. 265.
Taliaferro, Thomas L., Chicago, Ill. Closure for jelly-glasses or the like. No. 1,343,013; June 8; v. 275; p. 328.
Tallon, Robert, Apulia, N. Y. Holdback. No. 1,342,724; June 8; v. 275; p. 270.

Tangwall, Nels P., Duluth, Minn. Portable shears. No. 1,342,473; June 8; v. 275; p. 221.

Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic navigational apparatus. No. 1,343,188; June 8; v. 275; p. 362.

Taplex Corporation. (See Fritzsche, George H., assignor.)

Teeples, Clarence. (See Wright, W. M., Teeples, and Lamb.)

Theimer, Max, Elizabeth, N. J. Bone-holding device. No. 1,342,515; June 8; v. 275; p. 229.

Thomas, George P., Glenshaw, Pa. Punching machinery. No. 1,342,878; June 8; v. 275; p. 301.

Thomas, George P., Glenshaw, Pa. Punching-machine. No. 1,342,879; June 8; v. 275; p. 302.

Thomas, George P., Glenshaw, Pa. Spacing-machine. No. 1,342,880; June 8; v. 275; p. 302.

Thomas, Leslie A., Evansville, Ind. Hitch. No. 1,342,725; June 8; v. 275; p. 270.

Thompson, Don L., Spokane, Wash. Bath-cabinet. No. 1,342,474; June 8; v. 275; p. 221.

Thompson, George H., Summerland, assignor of one-half to L. O. De Rieux, Santa Barbara, Calif. Trap-gun. No. 1,343,066; June 8; v. 275; p. 338.

Thompson, Harry E., and P. L. Bunn, Three Rivers, Mich, assignors, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill. Standpipe. No. 1,342,516; June 8; v. 275; p. 229.

Thompson, Herbert L., Elgin, Ill. Internal-combustion engine. No. 1,342,976; June 8; v. 275; p. 320.

Thompson, Herbert L., assignor to Elgin Gas Motor Company, Elgin, Ill. Gas-engine. No. 1,342,977; June 8; v. 275; p. 320.

Thompson, Roy E. (See Avery, F. C., and Thompson.)

Thompson, Scott M., U. S. Navy. Gun control. No. 1,342,475; June 8; v. 275; p. 221.

Thompson, Thomas L., Chetek, Wis. Reel for holding barbed or other wire. No. 1,343,067; June 8; v. 275; p. 338.

Thomson Electric Welding Company. (See Gravell, James H., assignor.)

Thorne Brothers, Incorporated. (See Weaver, Ira A., assignor.)

Thorne, Victor C., New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc. Luminous indicating device. No. 1,342,777; June 8; v. 275; p. 281.

Thorne, Victor C., New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc. Luminous indicating device. No. 1,342,778; June 8; v. 275; p. 281.

Thorssell, Carl T. (See Holmgren, T. A. F., and Thorssell.)

Thorssell, Carl T., and H. L. R. Lundén, assignors to Aktiebolaget Kvafveindustri, Gottenborg, Sweden. Fixing nitrogen. No. 1,342,834; June 8; v. 275; p. 293.

Thurlow, Edward W., Brighton, Victoria, Australia. Obtaining motor-fuels and light paraffin-oils from shale; and benzene, toluene, and solvent naphtha from coal. No. 1,343,100; June 8; v. 275; p. 345.

Timmons, Sanford L., Des Moines, Iowa. Traction-engine. No. 1,342,779; June 8; v. 275; p. 282.

Toledo Machine & Tool Company, The. (See Lindgren, Bror J., assignor.)

Toledo Scale Company. (See Reeves, Orwell C., assignor.)

Torgerson, Carl O., Houston, Minn. Stake-holder. No. 1,342,654; June 8; v. 275; p. 255.

Trojan Powder Company. (See Bronstein, J. B., and Waller, assignors.)

Trojan Powder Company. (See Snelling, Walter O., assignor.)

Troutman, Frank E., Butler, Pa. Casting-table for plate-glass. No. 1,343,014; June 8; v. 275; p. 328.

Tuck, Robert G., Oakland, Calif. Garment-protector. No. 1,343,166; June 8; v. 275; p. 358.

Tucker, Frederick, Lafayette, Ala. Buggy-body. No. 1,343,068; June 8; v. 275; p. 339.

Turbo Rotary Engine Co. (See Carroll, John D., assignor.)

Twombly, Harry D., Norfolk, Nebr., assignor to Crane Puller Company, Arlington, Mass. Arbor-press. No. 1,343,015; June 8; v. 275; p. 328.

Tyson, Andrew C., Kissimmee, Fla. Billiard-cue lock. No. 1,342,517; June 2; v. 275; p. 229.

U. S. Industrial Alcohol Co. (See Haner, Carl, Jr., assignor.)

Udell, Henry A., Racine, Wis. Stepladder. No. 1,342,881; June 8; v. 275; p. 302.

Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)

Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)

Unit Railway Car Company. (See Stanley, Freelan O., assignor.)

United Bottle Machinery Co. (See Sears, Sydney L., assignor.)

United Engineering & Foundry Company. (See Bark, Arnold P., assignor.)

United Filters Corporation. (See Sweetland, Ernest J., assignor.)

United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)

United Shoe Machinery Corporation. (See Boulton, G., and Gorsuch, assignors.)

United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)

United Shoe Machinery Corporation. (See Graydon, Thomas H., assignor.) (Reissue.)

United Shoe Machinery Corporation. (See Levangie, John M., assignor.)

United Shoe Machinery Corporation. (See Stewart, William C., assignor.)

Universal Electric Welding Company. (See Lachman, Maurice, assignor.)

Universal Tide Power Co. (See Knowlton, John A., assignor.)

Vallender, Francis H., Arlington, Mass. Casting apparatus. No. 1,343,016; June 8; v. 275; p. 329.

Van De Voort, Camiel, Haledon, N. J. Picking-motion-checking means for looms. No. 1,342,726; June 8; v. 275; p. 270.

Van Ornum, Harry G., Piercefield, N. Y. Paper-making machine. No. 1,342,655; June 8; v. 275; p. 256.

Varney, William T., Vancouver, British Columbia, Canada. Distributer for rock-pulp. No. 1,342,727; June 8; v. 275; p. 271.

Vedder, Dwight G., Bakersfield, Calif. Method and apparatus for shutting water out of oil-wells. No. 1,342,780; June 8; v. 275; p. 282.

Vedder, Dwight G., Bakersfield, Calif. Shutting a deleterious fluid out of value-producing wells. No. 1,342,781; June 8; v. 275; p. 282.

Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Operating device for voting-machine registers. No. 1,342,476; June 8; v. 275; p. 222.

Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)

Vickers Limited. (See Dawson, A. T., and Buckman, assignors.)

Vincent, Antonio, Oakland, Calif. Trip-hammer. No. 1,342,782; June 8; v. 275; p. 282.

Vögler, Albert, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing steel. No. 1,342,701; June 8; v. 275; p. 265.

Volz, Otto, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing solid toilet and household soaps in cake or powder form. No. 1,342,783; June 8; v. 275; p. 282.

Walus, Antoni, Chicago, Ill. Picture-frame. No. 1,342,477; June 8; v. 275; p. 222.

Wales Adding Machine Company. (See Pentecost, Arthur, assignor.)

Waller, Charles E. (See Bronstein, J. B., and Waller.)

Ware, Joseph L., Minneapolis, Minn. Casting. No. 1,343,017; June 8; v. 275; p. 329.

Watson, Robert B., and J. C. Kitterman, Corydon, Ind. Fly-exit for screen doors and windows. No. 1,343,069; June 8; v. 275; p. 339.

Watts, Frank E., Detroit, Mich., assignor to Hupp Motor Car Corporation, Richmond, Va. Engine-starter. No. 1,342,478; June 8; v. 275; p. 222.

Waugh Draft Gear Company. (See Davidson, Arthur C., assignor.)

Weaver, Ira A., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Light-tractor gang-plow. No. 1,342,479; June 8; v. 275; p. 222.

Weaver, John A., Baltimore, Md. Insulated tool. No. 1,343,101; June 8; v. 275; p. 345.

Webber, John J., Rochester, N. Y. Baby-walker. No. 1,342,518; June 8; v. 275; p. 230.

Weber, Fritz, New York, N. Y. Slub-catcher. No. 1,343,162; June 8; v. 275; p. 346.

Webster Electric Company. (See Stark, John R., assignor.)

Wedmore, Edmund B., Hendon, England, assignor to General Electric Company. Protective device. No. 1,343,018; June 8; v. 275; p. 329.

Welch, Clarence R., Denver, Colo. Lock for steering-posts of automobiles. No. 1,342,728; June 8; v. 275; p. 271.

Weith, Archie J. (See Redman, L. V., Weith, and Brock.)

Welch, Emery L., Lima, Ohio. Electrical detecting-machine. No. 1,342,835; June 8; v. 275; p. 293.

Welch, Jesse C., Tacoma, Wash. Wheel. No. 1,342,784; June 8; v. 275; p. 283.

Welin, Axel, London, England, assignor to The American Balsa Company, Inc. Crane. No. 1,342,480; June 8; v. 275; p. 222.

Wendtland, William, Sr., Shiner, Tex. Plow. No. 1,342,836; June 8; v. 275; p. 293.

Wenner, Frank, Washington, D. C., and F. J. Martel, Hanover, N. H. Synchronized airplane-gun-control system. No. 1,342,729; June 8; v. 275; p. 271.

Wennerstrom, Charles R., New York, N. Y. Extension-table. No. 1,342,481; June 8; v. 275; p. 222.

Wentworth, Jesse S., Norwood, Ohio. Can-forming mandrel. No. 1,342,575; June 8; v. 275; p. 241.

Wersel, Frank B., Jr., Cincinnati, Ohio. Davenport. No. 1,342,785; June 8; v. 275; p. 283.

Western Electric Company. (See Goodrum, Charles L., assignor.)

Western Electric Company, Incorporated. (See Lundell, A. E., and Clark, assignors.)

Westinghouse Lamp Company. (See Jambor, John E., assignor.) (Reissue.)

Westwood, James, Brighouse, England. Adjustable set-square. No. 1,342,730; June 8; v. 275; p. 271.

Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Fireproof elevator-door. No. 1,342,482; June 8; v. 275; p. 223.

Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)

Wheeler, Frank G., assignor to Bleach Process Company, Appleton, Wis. Method of and apparatus for producing purified salt. No. 1,342,519; June 8; v. 275; p. 230.

Wheeler, Harry D., Chicago, Ill. Sound-insulating device for building constructions. No. 1,342,610; June 8; v. 275; p. 247.

White, David R., Chicago, Ill. Plant-irrigating device. No. 1,342,786; June 8; v. 275; p. 283.

White, Ernest C., assignor to Duplexallite Corporation, New York, N. Y. Grip-fitting for electric cord. No. 1,342,787; June 8; v. 275; p. 283.

White, John T., New York, N. Y. Kicking mule. No. 1,342,882; June 8; v. 275; p. 302.

Wickwire, Charles C., Cortland, N. Y. Internal-combustion engine. No. 1,342,483; June 8; v. 275; p. 223.

Wightman, Merle J., assignor, by mesne assignments, to Railway's Accessories Company, Seattle, Wash. Rail-joint. No. 1,343,070; June 8; v. 275; p. 339.

Wikstrom, Malcolm U., Charleroi, assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa. Annealing-furnace. No. 1,343,019; June 8; v. 275; p. 329.

Willard, Theodore A., Cleveland, Ohio. Storage-battery separator and producing same. No. 1,342,611; June 8; v. 275; p. 247.

Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Refractory arch construction. No. 1,342,931; June 8; v. 275; p. 312.

Williams, Charlie, assignor of one-third to N. Nelson, Granite City, Ill. Finishing iron and steel plates. No. 1,342,484; June 8; v. 275; p. 223.

Williams, George. (See Baker, G. W., and Williams.)

Williams, George H., Kearney, Nebr. Quoit. No. 1,343,071; June 8; v. 275; p. 339.

Willys, John N. (See MacNichol, George P., assignor.)

Willys-Overland Company, The. (See Lightner, Arthur D.)

Wilson, Connie H., and C. G. Lee, Asheville, N. C. Attachment for thermos-bottles. No. 1,342,883; June 8; v. 275; p. 302.

Wilson, Harrison D., Chicago, Ill. Sleeping-car. No. 1,342,702; June 8; v. 275; p. 265.

Wiltsie, George C., Schenectady, N. Y. Can-washer. No. 1,342,485; June 8; v. 275; p. 223.

Winchester Repeating Arms Co. (See Jermain, Herbert F., assignor.)

Winters, David L., Edgewater, Md. Operating internal-combustion engines. No. 1,342,656; June 8; v. 275; p. 256.

Wion, George H. (See Hudd, A. E., and Wion.)

Wolf, Ernest A. P., New York, N. Y. Loose-leaf book. No. 1,343,103; June 8; v. 275; p. 346.

Wolfard, Merl R., Cambridge, Mass. Atomizing-nozzle. No. 1,342,486; June 8; v. 275; p. 223.

Wolfe, Guy F., Frederick, Md. Air compressor and regulator. No. 1,342,487; June 8; v. 275; p. 224.

Wolferman, Guido, Chicago, Ill. Bottle-stopper. No. 1,342,657; June 8; v. 275; p. 256.

Wood, Louis E., Farrell, Pa. Electric-light socket. No. 1,342,658; June 8; v. 275; p. 256.

Wood, Joseph S., Cleveland, Ohio. Hatch-cover. No. 1,342,612; June 8; v. 275; p. 248.

Wood, Robert N., Dallas, Tex. Ignition device. No. 1,342,837; June 8; v. 275; p. 293.

Woods, Charles S., Indianapolis, Ind. Wall-cleaning machine. No. 1,342,488; June 8; v. 275; p. 224.

Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,489; June 8; v. 275; p. 224.

Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,490; June 8; v. 275; p. 224.

Woolson, Lionel M., Detroit, Mich., assignor to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,020; June 8; v. 275; p. 329.

Wilde, George T., Lethbridge, Alberta, Canada. Attachment for penholders and pencils to assist in the practice of penmanship. No. 1,342,576; June 8; v. 275; p. 242.

Wright, Carr W., Cincinnati, Ohio. System and educational appliance for military self-instruction. No. 1,342,520; June 8; v. 275; p. 230.

Wright, Joseph H., Henderson, Tex. Bracket. No. 1,342,659; June 8; v. 275; p. 256.

Wright, Thomas B., assignor to The Wright Traffic Signal Company, Chicago, Ill. Direction-indicating device. No. 1,342,788; June 8; v. 275; p. 283.

Wright Traffic Signal Company, The. (See Wright, Thomas B., assignor.)

Wright, Wilson M., C. Teeples, and J. J. Lamb, Jefferson, Iowa. Repairing radiators. No. 1,342,763; June 8; v. 275; p. 266.

Yaeger, William. (See Kost, S. A., and Yaeger.)

Yanagihara, Kichibei, Sakai, Osaka-Fu, Japan, assignor to Sakai Kako Celluloid Kwaisha, Ltd., Sakai, Japan. Protected toothbrush. No. 1,342,521; June 8; v. 275; p. 230.

Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Display-stand for tires. No. 1,342,731; June 8; v. 275; p. 271.

York, Howard H., Logansport, Ind. Water-submerged air-chamber for water-pipes. No. 1,342,491; June 8; v. 275; p. 224.

Young, Albert F., Brooklyn, N. Y. Invisible suspenders. No. 1,342,704; June 8; v. 275; p. 266.

Young, Frederick W., New Haven, Conn. Flash and recoil reducer for firearms. No. 1,342,978; June 8; v. 275; p. 321.

Young, L. A., Industries, Inc. (See Young, Leonard A., assignor.)

Young, Leonard A., Detroit, Mich. Back-spring construction. No. 1,342,522; June 8; v. 275; p. 230.

Young, Leonard A., Highland Park, assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring-cushion. No. 1,343,167; June 8; v. 275; p. 358.

Young, Leonard A., Highland Park, Mich. Floor-board for automobiles. No. 1,343,168; June 8; v. 275; p. 358.

Zaboy, Maciej, assignor of one-half to W. Daniel, Allentown, Pa. Combination fountain-brush. No. 1,342,492; June 8; v. 275; p. 225.

Zieche, Paul R., Moville township, Woodbury county, Iowa. Tractor-wheel. No. 1,342,493; June 8; v. 275; p. 225.

Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,343,021; June 8; v. 275; p. 329.

Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Starting device for electric motors. No. 1,343,022; June 8; v. 275; p. 330.

Zimmerman, Edgar A., Shamokin, Pa. Combined hair-plane and safety-razor. No. 1,342,494; June 8; v. 275; p. 225.

Zion, Isidor, Ridgefield, N. J. Toy device. No. 1,342,577; June 8; v. 275; p. 242

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Aitken, Edward S., Bridgeport, Conn. Game-board. No. 55,404; June 8; v. 275; p. 364.

Beckwith, William C., Chicago, Ill. Phonograph-cabinet. No. 55,405; June 8; v. 275; p. 364.

Berry, Nella E., Buffalo, N. Y. Nail-buffer. No. 55,406; June 8; v. 275; p. 364.

Bilott, Carmine, Larimer, Pa. Burial-casket container. No. 55,407; June 8; v. 275; p. 364.

Bogen, David, New York, N. Y. Souvenir. No. 55,408; June 8; v. 275; p. 364.

Bogert, Clarence, Demarest, N. J. Bubble-blower. No. 55,409; June 8; v. 275; p. 365.

Brady, John B., Somerset, Md. Pin. No. 55,410; June 8; v. 275; p. 365.

Breitenstein, Arthur I., Akron, Ohio, assignor to World Tire Corporation, Chicago, Ill. Tire-tread. No. 55,411; June 8; v. 275; p. 365.

Brown, Bessie B., Raleigh, N. C. Toy jingle-hoop. No. 55,412; June 8; v. 275; p. 365.

Bughee & Niles Company. (See King, Rufus, assignor.)

Cigol, Frank A., Paterson, N. J. Toy ball. No. 55,413; June 8; v. 275; p. 365.

Crow, Donald F., Omaha, Nebr. Vehicle-tire. No. 55,414; June 8; v. 275; p. 365.

Davis, Meyer, Chicago, Ill. Phonograph-cabinet. No. 55,415; June 8; v. 275; p. 366.

Delmore Manufacturing Co. (See Smith, Phineas M., assignor.)

Denmead, John W., Akron, Ohio. Elastic vehicle-tire. No. 55,416; June 8; v. 275; p. 366.

Dixon, Joseph H., Wellington, Ohio. Juvenile vehicle. No. 55,417; June 8; v. 275; p. 366.

Ecker, Joseph, New York, and E. Goldberg, Coney Island, N. Y. Game-board. No. 55,418; June 8; v. 275; p. 366.

Electric Welding Machine Company. (See Harvey, S. M., and Lorenz, assignors.)

Eley, Douglas H., and T. H. Ryan, assignors to The Emory Rubber Sole Co. Inc., Norfolk, Va. Rubber-shoe plate. No. 55,419; June 8; v. 275; p. 366.

Emory Rubber Sole Co., The. (See Eley, D. H., and Ryan, asignors.)

Gauss, Harry T., Chicago, Ill. Tire. No. 55,420; June 8; v. 275; p. 366.

Goldberg, Elias. (See Ecker, J., and Goldberg.)

Guinn, John W., Lagrange, Ga. Advertising-sign. No. 55,421; June 8; v. 275; p. 367.

Harvey, Sidney M., and S. E. Lorenz, assignors to Electric Welding Machine Company, Detroit, Mich. Electric-transformer case. No. 55,422; June 8; v. 275; p. 367.

King, Rufus, Plainville, Mass., assignor to Bughee & Niles Company, North Attleboro, R. I. Clasp for a ribbon-bracelet. Nos. 55,423–4; June 8; v. 275; p. 367.

Kline, Walter, Mogadore, Ohio. Tire-tread. No. 55,425; June 8, v. 275; p. 367.
Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
Lipshitz, Benjamin, Brooklyn, N. Y. Bedstead. No. 55,426; June 8; v. 275; p. 367.
Lorenz, Samuel E. (See Harvey, S. M., and Lorenz.)
Maas, William F., assignor to Wood Specialties, Inc., Rochester, N. Y. Toy. No. 55,427; June 8; v. 275; p. 368.
Malone, Adeline E., San Francisco, Calif. Doll. No. 55,428; June 8; v. 275; p. 368.
Noirot, Leo F. and O. G., Peoria, Ill. Toy rocker. No. 55,429; June 8; v. 275; p. 368.
Noirot, Otto G. (See Noirot, Leo F. and O. G.)
Noma Motor Corporation. (See Walton, Wirt W., assignor.)
Ohm, Albert J. D., Astoria, assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Electric lamp. Nos. 55,430–2; June 8; v. 275; p. 368.
Peoples, Walter R., Rochester, N. Y. Toy vehicle. Nos. 55,433–4; June 8; v. 275; p. 369.
Pines Manufacturing Company. (See Raleigh, James F., assignor.)
Raleigh, James F., assignor to Pines Manufacturing Company, Chicago, Ill. Automobile-radiator front. No. 55,435; June 8; v. 275; p. 369.
Ryan, Thomas H. (See Eley, D. H., and Ryan.)
Seiders, Irwin A., Pennside, Pa. Cylinder-cock casing. No. 55,436; June 8; v. 275; p. 369.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 55,437; June 8; v. 275; p. 370.
Sleight, William W., Chicago, Ill. Bolt for window frames. No. 55,438; June 8; v. 275; p. 370.
Sleight, William W., Chicago, Ill. Holdfast for window frames. No. 55,439; June 8; v. 275; p. 370.
Smith, Phineas M., Brooklyn, assignor to Delmore Manufacturing Co. Inc., New York, N. Y. Motor-vehicle. Nos. 55,440–2; June 8; v. 275; p. 370.
Strom, Emil, Chicago, Ill. Smoking-pipe. No. 55,443; June 8; v. 275; p. 371.
Walton, Wirt W., assignor to Noma Motor Corporation, New York, N. Y. Automobile-windshield. No. 55,444; June 8; v. 275; p. 371.
Welch, Jesse C., Tacoma, Wash. Toy vehicle. No. 55,445; June 8; v. 275; p. 371.
Wood specialties. (See Maas, William F., assignor.)
World Tire Corporation. (See Breitenstein, Arthur L., assignor.)
Wygold, Daniel M., Denver, Colo. Humidor. No. 55,446; June 8; v. 275; p. 371.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abradant Products Company, Philadelphia, Pa. Grinding and polishing wheels and blocks. No. 131,948; June 8; v. 275; p. 413.
Acme Mills, The, Hopkinsville, Ky. Self-rising wheat-flour. No. 131,949; June 8; v. 275; p. 413.
Adams & Westlake Company, Chicago, Ill. Lighting and ventilating devices. No. 131,950; June 8; v. 275; p. 413.
Albright, Chester W., Indianapolis, Ind. Saponaceous preparation for the complexion in powdered form. No. 131,951; June 8; v. 275; p. 413.
All-Qual-Sweets Co, Inc., Chicago, Ill. Confectionery—namely, chocolates. No. 131,952; June 8; v. 275; p. 413.
Althoff, L. A., Mfg. Co., The, Chicago, Ill. Gas stoves, ovens, and plates. No. 131,953; June 8; v. 275; p. 413.
Argo, Fred N., Los Angeles, Calif. Compound table-syrup and sugar, food-flavoring compound. No. 131,954; June 8; v. 275; p. 413.
Ashland Leather Company, Ashland, Ky., and Chicago, Ill. Sole-leather. No. 131,955; June 8; v. 275; p. 413.
Atterbury Bros. Inc., New York, N. Y. Old newspapers. No. 132,956; June 8; v. 275; p. 413.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. No. 131,957; June 8; v. 275; p. 413.
Basic Products Corporation, (now by change of name, The Theroz Company,) New York, N. Y. Fuel-burners for solidified alcohol. No. 131,958; June 8; v. 275; p. 413.
Bay City Milling Company, Bay City, Mich. Wheat-flour and cornmeal. No. 131,959; June 8; v. 275; p. 413.
Bedrosian, Milan, Elmira, N. Y. Cleaning preparation for rugs, silk, &c. No. 131,960; June 8; v. 275; p. 413.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat-flour. No. 131,961; June 8; v. 275; p. 413.
Blackwood, John L., H., London, England. Buttons, Device for use in protecting material to which they are attached while cleaning. No. 131,962; June 8; v. 275; p. 413.
Burgfeldt, George & Co., New York, N. Y. Pyroxylin compound of a celluloid type. No. 131,963; June 8; v. 275; p. 413.
Brinton, Willard C., New York, N. Y. Electric trucks and accessories. No. 131,964; June 8; v. 275; p. 413.
Campbell, A. S., Company, Boston, Mass. Curtain-windows for vehicle and similar curtains. No. 131,965; June 8; v. 275; p. 413.
Carr Fastener Company, Cambridge, Mass. Snap-fasteners. Nos. 131,966–7; June 8; v. 275; p. 413.
Carter, Macy & Co. Inc., New York, N. Y. Teas. No. 131,968; June 8; v. 275; p. 413.
Champion, Kerosene-Burner Co., Kenton, Ohio. Kerosene-burners, &c. No. 131,969; June 8; v. 275; p. 413.
Corning Glass Works, Corning, N. Y. Glass. No. 131,970; June 8; v. 275; p. 413.
Crenshaw Bros. Produce Co., Inc., Tampa, Fla. Butter. No. 131,971; June 8; v. 275; p. 413.
Cushing, J., Co., Fitchburg, Mass. Poultry and stock feed. No. 131,972; June 8; v. 275; p. 413.
Delaware Electric & Supply Co., Wilmington, Del. Coal-stoves. No. 131,973; June 8; v. 275; p. 413.
De Long Hook and Eye Company, Philadelphia, Pa. Hair-pins, snap-fasteners, &c. No. 131,974; June 8; v. 275; p. 413.
Dennis, Joseph K., Boston, Mass. Salt fish. Nos. 131,975–6; June 8; v. 275; pp. 413–4.
Dodson, Fisher, Brockmann Co., Minneapolis, Minn. Shoelaces. No. 131,977; June 8; v. 275; p. 414.
Eastern Felt Company, Winchester, Mass. Felt polishing-wheels. No. 131,978; June 8; v. 275; p. 414.
Eg-Ste-Tut Mfg. Co., Logansport, Ind. Egg-powder and egg-substitute powder. No. 131,979; June 8; v. 275; p. 414.
Everbright Manufacturing Company, San Francisco, Calif. Polish for cleaning, polishing, preserving, and finishing certain-named surfaces and articles. No. 131,980; June 8; v. 275; p. 414.
Fairfield Canning Company, The, Chillicothe, Ohio. Canned fruits and vegetables. No. 131,981; June 8; v. 275; p. 414.
Gamanos & Booskos, New York, N. Y. Olive-oil. No. 131,982; June 8; v. 275; p. 414.
Gill, Robert L., Platteville, Wis. Sanitary aerating and protecting device. No. 131,983; June 8; v. 275; p. 414.
Gordon & Dilworth, Inc., New York, N. Y. Preserved and canned fruits, jams, catsup, &c. Nos. 131,984–5; June 8; v. 275; p. 414.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Oleomargarin. No. 131,986; June 8; v. 275; p. 414.
Great Western Manufacturing Co., Laporte, Ind. Bicycles. No. 131,987; June 8; v. 275; p. 414.
Green Mountain Packing Company, Portland, Me. Canned vegetables. No. 131,988; June 8; v. 275; p. 414.
Griggs, Cooper & Company, St. Paul, Minn. Canned and preserved fruits, canned vegetables, &c. No. 131,989; June 8; v. 275; p. 414.
Guth Chocolate Company, Baltimore, Md. Candy. No. 131,990; June 8; v. 275; p. 414.
Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. No. 131,991; June 8; v. 275; p. 414.
Hackney, Louise W., Chicago, Ill. Hat-shields. No. 131,992; June 8; v. 275; p. 414.
Heap, William, & Sons, Grand Haven, Mich. Closet-seats and flushing-tanks. No. 131,994; June 8; v. 275; p. 414.
Hebb Motors Company, Lincoln, Nebr. Automobiles and automobile-trucks. No. 131,995; June 8; v. 275; p. 414.
Holmes and Barnes, Ltd., East Baton Rouge, La. Wheat-flour. No. 131,996; June 8; v. 275; p. 414.
Holophane Glass Co., Inc., New York, N. Y. Lenses for automobile-headlights. No. 131,997; June 8; v. 275; p. 414.
Horlick, William, Jr., Racine, Wis. Malt beverage. No. 131,998; June 8; v. 275; p. 414.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. No. 131,999; June 8; v. 275; p. 414.
International Insulation Company, International Falls, Minn. Wood-pulp boards and blocks. No. 132,000; June 8; v. 275; p. 414.
International Milling Company, New Prague, Minn. Wheat-flour. No. 132,001; June 8; v. 275; p. 414.
Jarvis, Hugh S., New York, N. Y. Motor-trucks. No. 132,002; June 8; v. 275; p. 414.
Jefferson, George F., Cincinnati, Ohio. Certain named foods. No. 132,003; June 8; v. 275; p. 414.
Kimball, C. M., Company, Winthrop, Mass. Metal-polish. No. 132,004; June 8; v. 275; p. 414.
King, Oliver, Knoxville, Tenn. White-marble lime. No. 132,005; June 8; v. 275; p. 414.
Kistler, Lesh & Company, Boston, Mass. Leather. Nos. 132,006–8; June 8; v. 275; p. 414.
Larson, L. P., Jr., Co., Chicago, Ill. Confection known as mints. No. 132,009; June 8; v. 275; p. 414.
Leach-Biltwell Motor Company, Los Angeles, Calif. Automobiles. No. 132,010; June 8; v. 275; p. 414.

Leoffler, Severn G., Jr., Washington, D. C. Prepared lunches in package form. No. 132,011; June 8; v. 275; p. 415.
Libby, McNeill & Libby, Chicago, Ill. Certain named foods. Nos. 132,012–13; June 8; v. 275; p. 415.
McClintic-Marshall Products Company, Pittsburgh, Pa. Structural steel. No. 132,014; June 8; v. 275; p. 415.
McDonald Bros. Co., Minneapolis, Minn. Suspenders and dress-shields. No. 132,015; June 8; v. 275; p. 415.
McMillen Co, The, Fort Wayne, Ind. Hog, horse, dairy, and scratch feed. No. 132,016; June 8; v. 275; p. 415.
Macanite Company of America, Philadelphia, Pa. Magnesium-oxychlorid cement and certain products made therefrom. No. 132,017; June 8; v. 275; p. 415.
Magee, David F., York, Pa. Candy. No. 132,018; June 8; v. 275; p. 415.
Maple Products Company, The. (See Argo, Fred N., assignor.)
Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for personal wear. No. 132,019; June 8; v. 275; p. 415.
Meyer, Otto, & Co., New York, N. Y. Leather. No. 132,020; June 8; v. 275; p. 415.
Migel, J. A., Inc., New York, N. Y. Silk piece goods. No. 132,021; June 8; v. 275; p. 415.
Mitchell & Dillon Coal Co., Chicago, Ill. Coal. No. 132,022; June 8; v. 275; p. 415.
Muller, Charles, Chicago, Ill. Blown-oil asphalts. No. 132,023; June 8; v. 275; p. 415.
Musher & Company, Incorporated, New York, N. Y.; San Diego, Calif.; Baltimore, Md., and Washington, D. C. Olive-oil. No. 132,024; June 8; v. 275; p. 415.
National Fibre and Insulation Company, Yorklyn, Del. Vulcanized fiber in sheets, rods, tubes, &c. No. 132,025; June 8; v. 275; p. 415.
National Sulfern Soap Co., Denver, Colo. Soap in bar, powdered, or paste form. No. 132,026; June 8; v. 275; p. 415.
National X-Ray Reflector Co., Chicago, Ill. Glass reflectors. No. 132,027; June 8; v. 275; p. 415.
Nelson-Dashiell Company, The, Baltimore, Md. Confectionery. No. 132,028; June 8; v. 275; p. 415.
New Process Cork Company, New York, N. Y. Cork disks and washers for sealing bottles, jars, &c. No. 132,029; June 8; v. 275; p. 415.
Ohio Suspender Company, The, Mansfield, Ohio. Suspenders, garters, and belts. No. 132,030; June 8; v. 275; p. 415.
Page, Handley, Limited, London, England. Flying-machines, balloons, bicycles, &c. No. 131,993; June 8; v. 275; p. 414.
Paragon Button Corporation, New York, N. Y. Pearl buttons. No. 132,031; June 8; v. 275; p. 415.
Penn River Corporation, Philadelphia, Pa. Snap-fasteners. No. 132,032; June 8; v. 275; p. 415.
Pioneer Corporation, Chicago, Ill. Luminous pendant. No. 132,033; June 8; v. 275; p. 415.
Pittman & Harrison Company, Sherman, Tex. Oat-seeds. No. 132,034; June 8; v. 275; p. 415.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Artificially-prepared roofing. No. 132,035; June 8; v. 275; p. 415.
Plaut, L., & Co., New York, N. Y. Metallic shades and reflectors for lighting-fixtures. No. 132,036; June 8; v. 275; p. 475.
Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 132,037; June 8; v. 275; p. 415.
Prussian, Samuel W., Cambridge, Mass. Internal-gear drive units and drives for motor-vehicles, &c. No. 132,038; June 8; v. 275; p. 415.
Pyro Products Company, Chicago, Ill. Fire-brick. No. 132,039; June 8; v. 275; p. 415.
Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory brick. No. 132,040; June 8; v. 275; p. 415.
Remiller Company, The, New York, N. Y. Soaps, shaving preparations. No. 132,041; June 8; v. 275; p. 416.
Robinson, Thomas F., Minneapolis, Minn. Automatic steering device for motor-vehicles. No. 132,042; June 8; v. 275; p. 416.
Rock Island Stove Company, Rock Island, Ill. Warm-air furnace, &c. No. 132,043; June 8; v. 275; p. 416.
Roethlisberger & Co. Inc., New York, N. Y. Cheese. No. 132,044; June 8; v. 275; p. 416.
Royal Cone Co., Detroit, Mich. Ice-cream cones. No. 132,045; June 8; v. 275; p. 416.
Rubary Company, Cleveland, Ohio. Aeroplanes and component parts thereof. No. 132,046; June 8; v. 275; p. 416.
Samstag & Hilder Bros., New York, N. Y. Snap-fasteners. No. 132,047; June 8; v. 275; p. 416.
Scull, William S., Company, Camden, N. J. Rice. No. 132,048; June 8; v. 275; p. 416.
Slogo Coal Company, Marion, Ill. Coal. No. 132,049; June 8; v. 275; p. 416.
Smythe, William B., Lynn, Mass. Cleaning-paste, &c. No. 132,050; June 8; v. 275; p. 416.
Standard Paint Company, The, Boundbrook, N. J., and New York, N. Y. Composition roofing, wall-board, and building papers. No. 132,051; June 8; v. 275; p. 416.
Star Binding & Trimming Co., The, New York, N. Y. Glove-binding. No. 132,052; June 8; v. 275; p. 416.
Stearns, Frederick, & Co., Detroit, Mich. Toilet soaps. No. 132,053; June 8; v. 275; p. 416.
Sterling Lumber Co., Cincinnati, Ohio. Millwork, fiber and gypsum wall-boards, &c. No. 132,054; June 8; v. 275; p. 416.
Stewart, Francis G., Chicago, Ill. Food-syrup. No. 132,055; June 8; v. 275; p. 416.
Tiffin Products, Inc., Long Island City, N. Y. Candies, ice-cream, and pastry. No. 132,056; June 8; v. 275; p. 416.
Treisman Bro's & Diversi Co., Concord, N. H. Candies and nuts. No. 132,057; June 8; v. 275; p. 416.
Trenton Potteries Company, Trenton, N. J. Plumbers' supplies of earthenware. No. 132,058; June 8; v. 275; p. 416.
Ubiko Milling Company, The, St. Bernard, Ohio. Dairy ration. No. 132,059; June 8; v. 275; p. 416.
Ulmer Leather Company, The, Norwich, Conn. Leather, finished and partly finished. No. 132,060; June 8; v. 275; p. 416.
U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol for use as cleanser or detergent or similar solvent. No. 132,063; June 8; v. 275; p. 416.
United States Cartridge Company, Lowell, Mass. Radiators for internal-combustion engines. Nos. 132,061–2; June 8; v. 275; p. 416.
Venus Chocolate Company, The, Sidney and Lockport, Ohio. Candy. No. 132,064; June 8; v. 275; p. 416.
Victor Rubber Company, Springfield, Ohio. Outer casings and inner tubes for pneumatic automobile-tires. No. 132,075; June 8; v. 275; p. 417.
Wabash Valley Packing Co., Mount Carmel, Ill. Canned vegetables. No. 132,065; June 8; v. 275; p. 416.
Walker Yarn Company, Boston, Mass. Worsted fingering-yarn. No. 132,066; June 8; v. 275; p. 416.
Waples-Platter Grocer Company, Denison, Tex. Certain named foods. No. 132,067; June 8; v. 275; p. 416.
Warren Brothers Company, Boston, Mass. Pavements and paving material containing bituminous matter. No. 132,068; June 8; v. 275; p. 416.
Western Chemical Company, Los Angeles, Calif. Detergent and scouring powder. No. 132,069; June 8; v. 275; p. 416.
Westfield Manufacturing Company, Westfield, Mass. Bicycles. No. 132,070; June 8; v. 275; p. 416.
Workman Packing Company, San Francisco, Calif. Macaroni sauce. No. 132,071; June 8; v. 275; p. 416.
Worumbo Manufacturing Company, Lisbon Falls, Me. Woolen overcoating goods in the piece. No. 132,072; June 8; v. 275; p. 417.
Yocum, John H., Newark, N. J. Leather-dressing. No. 132,073; June 8; v. 275; p. 417.
Zoes, Christ A., Chicago, Ill. Cleaner for white glacé kid-leather. No. 132,074; June 8; v. 275; p. 417.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Windholz, Charles A., Syracuse, N. Y. "Pargo Brand Sweet Corn." (For Cans Containing Sweet Corn.) No. 21,873; June 8; v. 275; p. 418.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Abel, William W., Macon, Ga. Preparation for the treatment of biliousness, constipation, foul stomach, &c. No. 117,520; June 8; v. 275; p. 377.

Alpha-Lux Company, Inc., New York, N. Y. Liquid and dry vegetable gums and vegetable adhesives for use on food-products, tobacco, &c. No. 127,207; June 8; v. 275; p. 391.

American Hard Rubber Company, Hempstead and New York, N. Y. Hard-rubber bowling and roque balls. No. 127,849; June 8; v. 275; p. 394.

American Importing Co., New York, N. Y. Ticking. Nos. 129,527–9; June 8; v. 275; p. 400.

American Iron Products Company Inc., New York, N. Y. Steel beams and channels. No. 130,739; June 8; v. 275; p. 408.

American Products Corporation, Boston, Mass. Liquid and powdered soap. No. 131,689; June 8; v. 275; p. 411.

American Wholesale Corporation, Baltimore and Cumberland, Md. Flannel shirts for outer wear. No. 128,993; June 8; v. 275; p. 398.

Archer Rubber Co., Milford, Mass. Rubber sheeting and blankets. Nos. 130,565–6; June 8; v. 275; p. 407.

Atmospheric Refrigeration Corporation, New York. Iceless refrigerators. No. 131,461; June 8; v. 275; p. 411.

Badenoch, J. J., Co., Chicago, Ill. Stock and poultry feeds. No. 114,312; June 8; v. 275; p. 374.

Baker Wheel & Rim Company, Chicago, Ill. Motor-vehicle wheels. No. 114,263; June 8; v. 275; p. 374.

Barnett Foundry & Machine Co., Irvington, N. J. Ironing-machines. No. 128,915; June 8; v. 275; p. 398.

Bath Bottling Co., Bath, Me. Ginger-ale. No. 131,518; June 8; v. 275; p. 411.

Bech, Van Sicien & Co. Inc., San Francisco, Calif. Wheat-flour. No. 130,015; June 8; v. 275; p. 403.

Becton, Dickinson & Co., Rutherford, N. J. Veterinary needles and syringes, pill-injectors, milking-tubes, &c. No. 121,616; June 8; v. 275; p. 380.

Beich, Paul F., Co., Bloomington, Ill. Candy. No. 129,823; June 8; v. 275; p. 402.

Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 129,775; June 8; v. 275; p. 402.

Bernstein, Ernest, Chicago, Ill. Non-alcoholic maltless non-cereal syrup used to make soft-drink beverages. No. 117,213; June 8; v. 275; p. 376.

Black Products Company, Chicago, Ill. Targets. No. 124,332; June 8; v. 275; p. 384.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 130,745–6; June 8; v. 275; 408.

Boutwell Fairclough & Gold Inc., (now by change of name Fairclough & Gold, Inc.,) Boston, Mass. Serim. No. 107,954; June 8; v. 275; p. 373.

Bowman Overall Co., The, Knoxville, Tenn. Overalls, overall-jumpers, work-pants and work-shirts. No. 130,012; June 8; v. 275; p. 403.

Braided Fabric Co., The, Providence, R. I. Elastic and non-elastic braids. No. 128,341; June 8; v. 275; p. 395.

Brecht Candy Co., The, Denver, Colo. Candies. No. 122,758; June 8; v. 275; p. 381.

Brill, J. G., Company, The, Philadelphia, Pa. Cars and car-trucks. No. 126,305; June 8; v. 275; p. 388.

Brown, Paul R., Yonkers, N. Y. Babbit metal and anti-friction metals. No. 123,839; June 8; v. 275; p. 383.

Bucyrus Company, South Milwaukee, Wis. Special steel castings and forgings. No. 127,281; June 8; v. 275; p. 391

Bullard Machine Tool Co., The, Bridgeport, Conn. Machine-tools. No. 119,467; June 8; v. 275; p. 378.

Bulova-Henshel Company, New York, N. Y. Artificial pearls. No. 131,375; June 8; v. 275; p. 411.

Bussmann Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 122,958; June 8; v. 275; p. 382.

Cable Company, The, Chicago, Ill. Pianos, player-pianos, and parts thereof. Nos. 116,736–7; June 8; v. 275; p. 375.

Campbell Electric Co., Lynn, Mass. Cabinets of X-ray units containing X-ray transformers and accessory equipment. No. 119,882; June 8; v. 275; p. 379.

Canterbury Candy Makers, Seattle, Wash. Candy, fresh fruits, and nuts in their natural state. No. 123,962; June 8; v. 275; p. 383.

Canton Furniture Manufacturing Co., Canton, Ohio. Revolving and sectional bookcases, house-desks, and medicine-cabinets. No. 129,044; June 8; v. 275; p. 398.

Carnation Milk Products Company, Portland, Me., and Seattle, Wash. Milk-chocolate. No. 95,120; June 8; v. 275; p. 373.

Catlett, Charles, Staunton, Va. Preparations useful in modifying cement, lime, and concrete mixtures. No. 128,879; June 8; v. 275; p. 397.

Chappell, Alexander W., Red Bank, N. J. Chemical egg-preserver. No. 118,751; June 8; v. 275; p. 378.

Chelsea Engineering Sales Corporation, New York, N. Y. Asbestos, calking-cotton, chamois, fire-clay, &c. No. 130,207; June 8; v. 275; p. 405.

Chicago Belting Company, Chicago, Ill. Dressing and preservative for leather, rubber, canvas, and fabric belting, &c. No. 120,660; June 8; v. 275; p. 379.

Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 122,108; June 8; v. 275; p. 380.

Chrobaltic Tool Company, Chicago, Ill. Templets and try-gages. No. 129,047; June 8; v. 275; p. 399.

Clack, H. Earl, Company, Havre, Mont. Gasolene. No. 126,990; June 8; v. 275; p. 390.

Clark, D. L., Company, The, Pittsburgh, Pa. Marshmallows, cream candies, taffies, &c. No. 128,660; June 8; v. 275; p. 397.

Clover Leaf Milling Company, Wellington, Mo. Wheat-flour. No. 114,815; June 8; v. 275; p. 374.

Co-Operative Drug Company, Incorporated, Philadelphia, Pa. Face-cream. No. 122,237; June 8; v. 275; p. 381.

Cohen, Goldman & Co. Inc., New York, N. Y. Men's, women's, and children's outer garments. No. 127,037; June 8; v. 275; p. 390.

Cohen, J. Robinson, & Bro., New York, N. Y. Ophthalmic lenses. No. 130,240; June 8; v. 275; p. 405.

Colgate & Co., Jersey City, N. J., and New York, N. Y. Shaving-soap. No. 119,120; June 8; v. 275; p. 378.

Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking-machine records. No. 125,274; June 8; v. 275; p. 386.

Comfurta Hosiery Co., New York, N. Y. Hosiery and underwear. No. 129,054; June 8; v. 275; p. 399.

Commercial Shirt Company, New York, N. Y. Dress and negligée shirts. No. 126,897; June 8; v. 275; p. 390.

Continental Fibre Company, Newark, Del. Electrical insulating material. No. 106,555; June 8; v. 275; p. 373.

Conway, C. C. and E. E., and T. P. Brown, trustees, Boston, Mass. Pianos. Nos. 126,454–6; June 8; v. 275; p. 389.

Coradine, San Francisco, Calif. Face-cream, face and hand lotions, hair and scalp tonics, &c. Nos. 125,078–9; June 8; v. 275; p. 385.

Corning, Perry, Yonkers, N. Y. Non-alcoholic beverage. No. 120,044; June 8; v. 275; p. 379.

Craddock-Terry Company, Lynchburg, Va. Children's shoes. No. 129,449; June 8; v. 275; p. 400.

Crandall, Walter C., Rensselaer, N. Y. Carpet and rugs made of selvages from cotton fabrics. No. 129,307; June 8; v. 275; p. 399.

Crossingham Knitting Mills, Philadelphia, Pa. Knitted underwear suits for men, women, and children. No. 128,596; June 8; v. 275; p. 397.

Crown Brewing Company, Cincinnati, Ohio. Non-alcoholic cereal beverage of malt nature. No. 117,006; June 8; v. 275; p. 376.

Curtiss Candy Co., Chicago, Ill. Candy. No. 117,220; June 8; v. 275; p. 376.

Davies, Richard T., Placentia, Calif. Fresh oranges. No. 129,702; June 8; v. 275; p. 401.

Davis, M., & Sons, Textile Co., Inc. New York, N. Y. Garment-linings in the piece. No. 130,466; June 8; v. 275; p. 406.

Deco Co., The, New York, N. Y. Men's undershirts and drawers, hats, caps; ladies' underwear, waists, &c. No. 128,670; June 8; v. 275; p. 397.

Dexter, C. H., & Sons, Incorporated, Windsor Locks, Conn. Paper—viz., tissue-papers of all kinds, toilet, writing, cover, &c. No. 116,361; June 8; v. 275; p. 375.

Dryfoos-Tiedemann Co, Inc., New York, N. Y. Cotton piece goods. No. 130,810; June 8; v. 275; p. 408.

Dunhill, Alfred, St. James, London, England. Articles for smokers. No. 107,226; June 8; v. 275; p. 373.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 130,649–51; June 8; v. 275; p. 407.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 130,653–4; June 8; v. 275; pp. 407–8.

Duty Motor Co., Greenville, Ill. Automobiles. No. 129,831; June 8; v. 275; p. 402.

Eaton, Crane & Pike Company, Pittsfield, Mass. Writing-paper and mailing-envelops. No. 130,756; June 8; v. 275; p. 408.

Efanbee Company, The, Methuen, Mass. Non-alcoholic non-cereal maltless beverages. No. 128,427; June 8; v. 275; p. 396.

Egg-O Co., The, Baltimore, Md. Flavored pudding-dessert mixture. No. 117,523; June 8; v. 275; p. 377.

Empire Carpet Co., New York, N. Y. Rugs made of wool and cotton. No. 130,888; June 8; v. 275; p. 409.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 127,583; June 8; v. 275; p. 392.

Ensign, Jeanette M., Chicago, Ill. Liquid polish or dressing for furniture, floors, and automobiles. No. 125,880; June 8; v. 275; p. 387.

Essex Rubber Company, Trenton, N. J. Cycle-handle-bar grips. No. 130,324; June 8; v. 275; p. 406.

Euclid Film Company, The, Cleveland, Ohio. Motion-picture films and still pictures. No. 129,972; June 8; v. 275; p. 403.

Everbest Milling Corporation, Erie, Pa. Cornmeal, bolted meal, buckwheat-flour, wheat, pastry, and graham flours. No. 123,344; June 8; v. 275; p. 382.

Excello Merchandise Co. Inc., New York, N. Y. Sweaters, women's one-piece muslin underwear, blouses, and work-shirts. No. 126,565; June 8; v. 275; p. 389.

Exolon Company, The, Boston, Mass. Abrasives in comminuted form. Nos. 131,521–2; June 8; v. 275; p. 411.

Ezekiel Brothers, New York, N. Y. Condensed milk. No. 117,272; June 8; v. 275; p. 376.

Fair, The, Chicago, Ill. Textile blankets. No. 126,570; June 8; v. 275; p. 389.

Fall, Charles, Hoboken, N. J. Ladies' and infants' hosiery. No. 129,494; June 8; v. 275; p. 400.

Farnsworth, Hoyt Co., Boston, Mass. Cotton twill shoe-linings in the piece. No. 129,590; June 8; v. 275; p. 400.

Faultless Rubber Company, The, Ashland, Ohio. Dolls. No. 129,709; June 8; v. 275; p. 401.

Feldman, Emanuel & Company, Philadelphia, Pa. Men's suits and overcoats. No. 130,027; June 8; v. 275; p. 403.

Finley Acker Co., Philadelphia, Pa. Olives and olive-oil. No. 130,257; June 8; v. 275; p. 406.

Finley Acker Co., Philadelphia, Pa. Smoked, cured, and canned meats, canned fruits, and vegetables, &c. No. 129,052; June 8; v. 275; p. 399.

Fischer, Hugo, Brooklyn, N. Y. Dyed furs. No. 127,360; June 8; v. 275; p. 391.

Fisher, John L., & Brother, Louisville, Ky. Medicine for rheumatism, neuralgia, colds, fever, &c. No. 116,374; June 8; v. 275; p. 375.

Friedman, L. and S., New York, N. Y. Coats, vests, trousers, and overcoats. No. 129,008; June 8; v. 275; p. 398.

Frost, George, Company, Boston, Mass. Garters. No. 130,134; June 8; v. 275; p. 405.

Fulghum & Company, Los Angeles, Calif. Face-veils and hair-nets. No. 127,642; June 8; v. 275; p. 393.

Futurist Company, The, Chicago, Ill. Men's, women's, and children's hosiery. No. 129,629; June 8; v. 275; p. 401.

Gammon, Arthur H., Haverhill, Mass. Liquid for polishing automobile-bodies, pianos, and furniture. No. 124,716; June 8; v. 275; p. 585.

Garnett, C. B., Denver, Colo. Washing-powder. No. 131,903; June 8; v. 275; p. 412.

Gaston, Williams & Wigmore, Inc., New York, N. Y. Turpentine. No. 115,675; June 8; v. 275; p. 375.

General Railway Signal Company, Rochester, N. Y. Electrically-operated clothes-washing machines and wringers. No. 130,758; June 8; v. 275; p. 408.

Ghiglino, Cesar, New York, N. Y. Non-alcoholic maltless fruit-flavored beverage and flavorings and syrup. No. 131,264; June 8; v. 275; p. 410.

Gibson, Geo. R., Co., New York, N. Y. Toothbrushes. No. 121,246; June 8; v. 275; p. 380.

Glandular Research Laboratories, Inc., The, Cranford, N. J. Medicine for treatment of neurasthenia, anemia, lack of vitality, &c. No. 127,909; June 8; v. 275; p. 394.

Glazer, Louis, Dallas, Tex. Bottled soda-water of different flavors. No. 131,322; June 8; v. 275; p. 410.

Gleason's, Edwin P., Son, Inc., New York, N. Y. Cotton piece goods. No. 126,278; June 8; v. 275; p. 388.

Goddard, J. W., & Sons, Inc., New York, N. Y. Cotton piece goods. No. 130,830; June 8; v. 275; p. 409.

Gold Medal Cleaner Co., Buffalo, N. Y. Waterproof Dressing for shoes. No. 132,174; June 8; v. 275; p. 412.

Goldberg, Benjamin M., Brooklyn, N. Y. Plastic composition for the manufacture of models for artificial teeth. No. 128,437; June 8; v. 275; p. 396.

Good Luck Food Co., Inc., Rochester, N. Y. Pie-fillings, puddings, and jellies. No. 129,713; June 8; v. 275; p. 401.

Goodwirth, Emil, St. Louis, Mo. Writing and engrossing ink. No. 127,051; June 8; v. 275; p. 390.

Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Portland cement. No. 130,326; June 8; v. 275; p. 406.

Graham Brothers, Evansville, Ind. Motor-trucks. No. 129,055; June 8; v. 275; p. 399.

Green Mountain Packing Company, Portland, Me. Canned vegetables and fruits. No. 126,364; June 8; v. 275; p. 388.

Greenebaum Weil & Michels, San Francisco, Calif. Men's and women's knit and textile coats and sweaters. No. 123,977; June 8; v. 275; p. 384.

Gross, Ignatz, Los Angeles, Calif. Boy's suits, overcoats, and caps. No. 111,391; June 8; v. 275; p. 374.

Groton Electrical Devices, Inc., Groton, N. Y. Electrical lavatory drying-machine. No. 109,941; June 8; v. 275; p. 373.

Halcomb & Davidson, Inc., New York, N. Y. Bar-steel, hollow and solid. No. 116,712; June 8; v. 275; p. 375.

Hall, John D., Cincinnati, Ohio. Non-alcoholic non-cereal maltless beverages and syrups for making same. No. 130,672; June 8; v. 275; p. 408.

Hamilton Motors Company, Grand Haven, Mich. Motor-trucks and automobiles. No. 122,432; June 8; v. 275; p. 381.

Hammond Iron Works, Warren, Pa. Oil-tanks. No. 127,758; June 8; v. 275; p. 393.

Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Knives, forks, and spoons, (silver-plated.) No. 130,895; June 8; v. 275; p. 409.

Haug & Co., Inc., New York, N. Y. Hydrogenated vegetable oil. No. 129,323; June 8; v. 275; p. 399.

Hayter, A. P., Greenville, Tex. Soap. No. 131,172; June 8; v. 275; p. 410.

Heffelman, Charles L., Indianapolis, Ind. Candies, commonly known as suckers. No. 130,033; June 8; v. 275; p. 404.

Heller Leather Co., The, Milwaukee, Wis. Leather gloves. No. 127,591; June 8; v. 275; p. 392.

Herzfeld-Phillipson Company, Milwaukee, Wis. Player-pianos. No. 126,032; June 8; v. 275; p. 387.

Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Fishing-rods, lines, reels, hooks, and fishing-bait—namely, artificial minnows. No. 126,378; June 8; v. 275; p. 388.

Hilker-Wiechers Mfg. Co., The, Racine, Wis. Work, dress, and flannel shirts. No. 125,460; June 8; v. 275; p. 386.

Hispanic Textile Company, Inc., New York, N. Y. Bleached sheetings, cotton suitings, lawn, voiles, &c. No. 128,553; June 8; v. 275; p. 396.

Hoberg, John Co., The, Green Bay, Wis. Toilet-paper, paper towels, tissue-papers, &c. Nos. 130,042–4; June 8; v. 275; p. 404.

Hoover, Roy H., Freeport, Ill. Fertilizer compound. No. 127,122; June 8; v. 275; p. 391.

Horton Manufacturing Co., The, Bristol, Conn. Fishing-lines. No. 128,552; June 8; v. 275; p. 396.

Hovey, Gertrude B., Springfield, Mass. Aprons for women's dress. No. 128,927; June 8; v. 275; p. 398.

Hudford Company of Chicago, Chicago, Ill. Motor-trucks, conversion units for making motor-trucks from automobiles. No. 129,891; June 8; v. 275; p. 402.

Hurley, William J., Chicago, Ill. Preparation for treatment of sore throat. No. 127,690; June 8; v. 275; p. 393.

Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated fans and blowers. No. 124,650; June 8; v. 275; p. 384.

Ilg Electric Ventilating Company, Chicago, Ill. Electrically-operated heating and ventilating units. No. 124,939; June 8; v. 275; p. 385.

International Harvester Company, Chicago, Ill. Plows and parts thereof. No. 130,221; June 8; v. 275; p. 405.

International Sugar Feed Co., Minneapolis, Minn. Hog feed. No. 117,490; June 8; v. 275; p. 376.

International Sugar Feed Co., Minneapolis, Minn. Mixed feeds for live stock and poultry. No. 98,945; June 8; v. 275; p. 373.

International Sugar Feed Co., Minneapolis, Minn. Poultry feed, chick size. No. 117,491; June 8; v. 275; p. 377.

Inyo Talc Company, Los Angeles, Calif. Talc. Nos. 131,967–8; June 8; v. 275; p. 412.

Iris Preparations, Inc., New York, N. Y. Toilet preparations. No. 127,477; June 8; v. 275; p. 392.

Iten Biscuit Co., Omaha, Nebr. Crackers, biscuits, wafers, cakes, and cookies. No. 131,331; June 8; v. 275; p. 411.

J. & B. Manufacturing Company, Pittsfield, Mass. Sparktimers and elastic coils. No. 128,734; June 8; v. 275; p. 397.

Jarman, George R., Baltimore, Md. Refrigerating-machines. No. 113,047; June 8; v. 275; p. 374.

Jiffo Company Incorporated, The, Little Rock, Ark. Ready-mixed cake-flour. No. 121,396; June 8; v. 275; p. 380.

Johnson & Bonnier, Detroit, Mich. Brand of candy. No. 118,602; June 8; v. 275; p. 378.

Johnson, Waldo P., Chicago, Ill. Feeds for poultry. No. 121,978; June 8; v. 275; p. 380.

Jonkopings & Vulcans Tandsticksfabriks Aktiebolag. (See Stromberg Export & Import Co., assignor.)

Kahn Dreyfus & Co. Inc., New York, N. Y. Outer suits for men and boys. No. 129,785; June 8; v. 275; p. 402.

Kamm & Schellinger Co., Mishawaka, Ind. Root-beer. No. 131,799; June 8; v. 275; p. 411.

Keebler, Weyl Baking Co., Philadelphia, Pa. Crackers, cakes, pies, chocolate, chewing-gum, and candy, &c. No. 125,465; June 8; v. 275; p. 386.

Keen Kola Mfg. Co., Dallas, Tex. Maltless beverage. No. 128,781; June 8; v. 275; p. 397.

Keet & Rountree Dry Goods Co., Springfield, Mo. Overalls. No. 124,484; June 8; v. 275; p. 384.

Kenny, C. D., Co., The, Baltimore, Md. Coffee. No. 123,164; June 8; v. 275; p. 382.

Kiesling, A. E., Houston, Tex. Rouge, lip-stick, face-powder, cold and toilet creams, &c. No. 119,521; June 8; v. 275; p. 378.
Kirk, Henry C., Baltimore, Md. Base-metal alloys. No. 127,132; June 8; v. 275; p. 391.
Krinsky, I. B., Inc., Estate of, New York, N. Y. Cigarettes, little cigars, and smoking-tobacco. No. 123,649; June 8; v. 275; p. 383.
Laughlin, E. A., Lumber Co., Port Arthur, Tex. Ready-cut parts of a building. No. 118,440; June 8; v. 275; p. 378.
Laughlin, Thomas, Co., Portland, Me. Metal links for chains. No. 116,308; June 8; v. 275; p. 375.
Leedon, Theodore C., Oil City, Pa. Evaporated milk. No. 129,597; June 8; v. 275; p. 401.
Lichtenstein, Chas. A., New York, N. Y. Pearls. No. 131,180; June 8; v. 275; p. 410.
Lob, Albert, New York, N. Y. Dry powders for cleaning and restoring fabrics and removing tarnish from metals. No. 131,028; June 8; v. 275; p. 410.
Luminous Specialty Company, Indianapolis, Ind. Lighting units—namely, translucent reflectors for semi-indirect illumination. No. 125,466; June 8; v. 275; p. 386.
Magic Coffee Machine Company Inc., Chicago, Ill. Electric coffee-roasters. No. 126,284; June 8; v. 275; p. 388.
Mallard, C. B., Co., Jacksonville, Fla. Canned vegetables and fruits, preserves, and pickles. No. 121,480; June 8; v. 275; p. 380.
Mallinson, H. R., & Co. Inc., New York, N. Y. Crape in the piece. No. 130,765; June 8; v. 275; p. 408.
Mallinson, H. R., & Co. Inc., New York, N. Y. Satin in the piece. No. 130,972; June 8; v. 275; p. 410.
Mar-Hof-Co., Inc., Norfolk, Va. Ladies' and misses' middy-suits. No. 130,231; June 8; v. 275; p. 405.
Marcus Lucius Quinn Conservatory of Music, Boston, Mass. Educational appliance. No. 112,993; June 8; v. 275; p. 374.
Maritime Trading Corporation, New York, N. Y. Stock and poultry food. No. 121,813; June 8; v. 275; p. 380.
Martin, John C., New York, N. Y. Hat-blocking dies and hat-blocks. No. 115,693; June 8; v. 275; p. 375.
Maryland Baking Co., Baltimore, Md. Cake cone. No. 130,542; June 8; v. 275; p. 407.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 127,549; June 8; v. 275; p. 392.
May, W. J., & Co., Limited, East Twickenham, England. Fountain-pens. No. 123,548; June 8; v. 275; p. 383.
McCoy, Frank G., Baltimore, Md. Salve for treatment of piles. No. 126,942; June 8; v. 275; p. 390.
McKenzie Milling Company, Quincy, Mich. Wheat-flour, cornmeal, Graham flour, &c. No. 128,607; June 8; v. 275; p. 397.
McLaughlin, Claude E., Lamar, Colo. Kerosene, gasolene, and lubricating-oils. No. 118,339; June 8; v. 275; p. 377.
McManes, Joseph B., Columbus, Ohio. Medicine for nervous and sick headache. No. 123,073; June 8; v. 275; p. 382.
Mears, William J., Kansas City, Mo. Medical preparation for treatment of colds. No. 122,178; June 8; v. 275; p. 381.
Melodia Company, The, Troy, Ohio. Phonographs. No. 128,450; June 8; v. 275; p. 396.
Melville Shoe Corporation, New York, N. Y. Yielding heels and heel-cushions for boots and shoes. No. 127,517; June 8; v. 275; p. 392.
Merrill-Greer & Chapman, St. Paul, Minn. Glass jars. No. 126,890; June 8; v. 275; p. 390.
Mexican Products Co., Laredo, Tex. Chocolates. No. 117,735; June 8; v. 275; p. 377.
Midland Packing Company, Sioux City, Iowa. Bacon, ham, and sausage. No. 129,399; June 8; v. 275; p. 399.
Miller, Frank C., Fort Collins, Colo. Gasolene in bulk and in tin retainers, lubricating oils and greases in containers, &c. No. 127,320; June 8; v. 275; p. 391.
Miller, James A., Clay Center, Kans. Optical goods and furnishings. No. 127,864; June 8; v. 275; p. 394.
Minkenhof, S., & Company, New York, N. Y. Cotton piece goods, half-woolens, and woolens. No. 125,795; June 8; v. 275; p. 386.
Moluska Corporation, New York, N. Y. Canned concentrated clam and oyster juices. No. 125,963; June 8; v. 275; p. 387.
Monarch Manufacturing Company, Atlanta, Ga. Non-alcoholic non-intoxicating maltless non-cereal beverage. No. 130,607; June 8; v. 275; p. 407.
Moody, Charles E., & Co. Inc., Boston, Mass. Canned fruits and vegetables. No. 129,074; June 8; v. 275; p. 399.
Morrell, John, & Co., Ottumwa, Iowa. Breakfast-bacon. No. 127,387; June 8; v. 275; p. 391.
Narrow Fabric Co., The, Wyomissing, Pa. Rick-rack, wave-braids, garment-trimming, corset-lacers, &c. No. 119,984; June 8; v. 275; p. 379.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. No. 126,195; June 8; v. 275; p. 387.
National Fruit Flavor Co., New Orleans, La. Flavoring extracts for non-alcoholic beverages. No. 128,368; June 8; v. 275; p. 396.
Nehring, A., & Sons Company, Chicago, Ill. Varnish, flat wall-paint, floor-paint, and ready-mixed paint. No. 128,978; June 8; v. 275; p. 398.
Nichthauser & Levy, Brooklyn, N. Y. Washboilers. No. 128,854; June 8; v. 275; p. 397.
Nomar Optical Co., Southbridge, Mass. Optical goods. No. 127,770; June 8; v. 275; p. 393.
Norma Chocolate Company, Inc., Brooklyn, N. Y. Chocolate. No. 129,858; June 8; v. 275; p. 402.
Norma Chocolate Company, Inc., Brooklyn, N. Y. Cocoa. No. 129,857; June 8; v. 275; p. 402.
Northampton Cutlery Company, Northampton, Mass. Table-knives of base metal. No. 122,131; June 8; v. 275; p. 381.
Northern Woodenware Company, Island Falls, Me. Dishes made from veneer hard wood, beech, birch, &c. No. 128,217; June 8; v. 275; p. 395.
Northwestern Hide & Fur Co., Minneapolis, Minn. Poison for animals. No. 116,750; June 8; v. 275; p. 376.
Nuway Manufacturing Company, Winston-Salem, N. C. Men's negligée, work, and dress shirts. No. 127,975; June 8; v. 275; p. 394.
Ohio Cities Gas Co., The, Columbus, Ohio. Gasolene. No. 117,351; June 8; v. 275; p. 376.
Oneida Motor Truck Co., Green Bay, Wis. Motor-vehicles. No. 128,163; June 8; v. 275; p. 395.
Oppenheimer & Berliner, Inc., New York, N. Y. Printed and woven cotton fabrics and cotton textiles of all descriptions. No. 125,853; June 8; v. 275; p. 387.
Oppenheimer, Charles, Philadelphia, Pa. Hair-nets. No. 123,396; June 8; v. 275; p. 383.
Orium Company, The, St. Louis, Mo. Medicated salve for relief of colds, coughs, sore throat, &c. No. 127,828; June 8; v. 275; p. 393.
Oscar Onken Company, The, Cincinnati, Ohio. Phonographs and phonograph-record cabinets. No. 125,968; June 8; v. 275; p. 387.
Ostrowsky, H., Co., Chicago, Ill. Men's, women's, and children's underwear, &c. No. 130,124; June 8; v. 275; p. 405.
Pacific Mills, Lawrence, and Boston, Mass. Cotton piece and cotton dress goods. No. 130,178; June 8; v. 275; p. 405.
Panaghiotopulos, James C., Chicago, Ill. Toilet preparations. No. 123,257; June 8; v. 275; p. 382.
Parkhill Mfg. Co., Fitchburg, Mass. Gingham and cotton goods in the piece. No. 126,227; June 8; v. 275; p. 387.
Pattison & Co., Ltd., New Orleans, La. Soap. No. 132,023; June 8; v. 275; p 412.
Pearsall, B. S., Butter Co., Elgin, Ill. Oleomargarin. No. 131,651; June 8; v. 275; p. 411.
Penn Chemical Works, The, Philadelphia, Pa. Lye and chlorinated lime. No. 127,831; June 8; v. 275; p. 394.
Perez, Henry L., New York, N. Y. Concentrated and powdered inks, ink-sticks, and ink for writing purposes. No. 125,799; June 8; v. 275; p. 386.
Perfection Storage Battery Co., Chicago, Ill. Electric storage batteries. No. 128,899; June 8; v. 275; p. 398.
Perfection Storage Battery Co., Chicago, Ill. Unitary electric-light plants. No. 128,900; June 8; v. 275; p. 398.
Perrone Brothers, Pittston, Pa. Macaroni. No. 128,519; June 8; v. 275; p. 396.
Pershing, Eli R., Washington, D. C. Candles. No. 127,010; June 8; v. 275; p 390.
Pillsbury Flour Mills Company, Minneapolis, Minn. Buckwheat pancake-flour, wheat cereal, pancake-flour, rolled oats, and health-bran. No. 122,228; June 8; v. 275; p. 381.
Plaut, A. & J., Cincinnati, Ohio. Watches. No. 130,551; June 8; v. 275; p. 407.
Plummer, Emma R., Urbana, Ohio. Hair-powder for dry shampooing. No. 127,738; June 8; v. 275; p. 393.
Plummer and Edwins, Seattle, Wash. Fresh apples. No. 129,744; June 8; v. 275; p. 401.
Polhamus, Kathleen M., Los Angeles, Calif. Children's hats and caps. No. 130,390; June 8; v. 275; p. 406.
Portalis & Co., Ltd., Buenos Aires, Argentina, and New York, N. Y. Wheat-flour. Nos. 130,915–16; June 8; v. 275; p. 409.
Pyrene Manufacturing Company, New York, N. Y. Cleaning material, particularly for fabrics. No. 124,122; June 8; v. 275; p. 384.
Racine Auto Tire Company, Racine, Wis. Inner tubes for pneumatic tires. No. 124,190; June 8; v. 275; p. 384.
Randall-McLoughlin Co., Seattle, Wash. Insecticides. No. 127,929; June 8; v. 275; p. 394.
Ransom, John B., & Company, Nashville, Tenn. Shingles, laths, and oak flooring. No. 119,665; June 8; v. 275; p. 179.
Reed, Leon L., Marathon, N. Y. Preparation for catarrh, colds, croup, sore throat, &c. No. 128,210; June 8; v. 275; p. 395.
Reliance Motor Truck Company, Appleton, Wis. Motor-trucks. No. 129,988; June 8; v. 275; p. 403.
Replogle, Daniel B., Berkeley, Calif. Electrically-operated pneumatic or vacuum sweepers and cleaners and parts thereof. No. 114,191; June 8; v. 275; p. 374.
Richardson, J. W., Foundry Metals Corporation, New York, N. Y. Metal castings. No. 123,368; June 8; v. 275; p. 383.
Riley, James W., Los Angeles, Calif. Candles. No. 129,805; June 8; v. 275; p. 402.

Rite Mfg. Co., Cincinnati, Ohio. Middy-blouses and middy-dresses. No. 129,607; June 8; v. 275; p. 401.
Riverside Mill Company, Reno, Nev. Wheat-flour. No. 125,060; June 8; v. 275; p. 385.
Robertson, James, & Sons, Preserve Manufacturers, Limited, Paisley, Scotland. Marmalade. No. 125,858; June 8; v. 275; p. 387.
Rochester Railway and Light Company, Rochester, N. Y. Fuel-oils. No. 119,989; June 8; v. 275; p. 379.
Rogers Milk Corporation, Pulaski, N. Y. Condensed milk. No. 130,557; June 8; v. 275; p. 407.
Romeo, F., & Co. Inc., New York, N. Y. Canned tuna fish, canned tomatoes, and olive-oil. No. 129,906; June 8; v. 275; p. 403.
Roseman, George, Philadelphia, Pa. Molasses. No. 125,972; June 8; v. 275; p. 387.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, and suits. No. 119,815; June 8; v. 275; p. 379.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 119,816; June 8; v. 275; p. 379.
Rossman Brothers, New York, N. Y. Cotton goods in the piece and cotton and silk goods in the piece. No. 122,787; June 8; v. 275; p. 381.
Rothschild, Sig. I., New York, N. Y. Dolls and toys. No. 125,063; June 8; v. 275; p. 385.
San Jose Canning Co., San Jose, Calif. Canned vegetables and fruits. No. 130,067; June 8; v. 275; p. 404.
Sanford Mills, Sanford, Me. Woven textile rugs. No. 129,250; June 8; v. 275; p. 399.
Sar-Ann Manufacturing Co., St. Louis, Mo. Boot-tops and spats. No. 124,154; June 8; v. 275; p. 384.
Sargoy Brothers, Brooklyn, N. Y. Washboiler. No. 131,192; June 8; v. 275; p. 410.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage made of malt and cereals. No. 124,538; June 8; v. 275; p. 384.
Scheidt, Adam, Beverage Company, Norristown, Pa. Beverage made of malt and cereals. No. 126,823; June 8; v. 275; p. 390.
Schmid, Julius, Inc., New York, N. Y. Face-powder, rouges, eyebrow-pencils, &c. No. 102,359; June 8; v. 275; p. 373.
Schmidt, Samuel M., Winthrop, Mass. Non-alcoholic non-cereal maltless beverages. No. 125,863; June 8; v. 275; p. 387.
Schoenhofen Company, Chicago, Ill. Non-alcoholic non-cereal maltless beverages, and syrup for making same. No. 129,189; June 8; v. 275; p. 399.
Scientific Materials Company, Pittsburgh, Pa. Optical apparatus for magnifying and viewing stereoscopic, transparent, and photographic plates. No. 122,190; June 8; v. 275; p. 381.
Seattle & Puget Sound Packing Company, Seattle, Wash. Syrup for table use. No. 127,872; June 8; v. 275; p. 394.
Shakespeare Company, Kalamazoo, Mich. Casting-rods. No. 121,913; June 8; v. 275; p. 380.
Shaw, Isaac, Le Roy, Ill. Cereal breakfast food. No. 129,477; June 8; v. 275; p. 400.
Silk, Louis, A., New York, N. Y. Handkerchiefs. No. 126,781; June 8; v. 275; p. 389.
Smith & Nessle Co., Inc., New York, N. Y., and Eastport, Me. Canned vegetables, fruits, shrimp, and oysters. No. 128,116; June 8; v. 275; p. 395.
Smith, Henry B., Elmwood Place, Ohio. Hair-restorers. No. 127,784; June 8; v. 275; p. 393.
Spanish American Fruit Company, Inc., Plainfield, N. J., and New York, N. Y. Grape-fruit, pineapples, and grape-fruit marmalade. No. 126,652; June 8; v. 275; p. 389.
Spence, Stewart J., Chattanooga, Tenn. Dental plaster. No. 127,345; June 8; v. 275; p. 391.
Spokane Meelmolens (Spokane Flour Mills), Amsterdam, Holland, and Pendleton, Oreg. Wheat-flour. No. 110,081; June 8; v. 275; p. 374.
Standard Optical Company, The, Geneva, N. Y. Optical lenses and goggles. No. 129,575; June 8; v. 275; p. 400.
Steam Corporation, The, Chicago, Ill. Liquid-fuel burners or heaters. No. 128,474; June 8; v. 275; p. 396.
Steffen, F. and J., Dayton, Ohio. Assorted candies. No. 129,680; June 8; v. 275; p. 401.
Steinberg, Max, New York, N. Y. Embroideries in the piece. No. 121,284; June 8; v. 275; p. 380.
Stenco Engineering Company, The, Dayton, Ohio. Float-gages, fluid-gages, and Ullage-gages. No. 130,062; June 8; v. 275; p. 404.
Stromberg Export & Import Co., Inc., New York, N. Y., assignor to Jonkopings & Vulcans Tändsticksfabriks Aktiebolag, Jonkopings, Sweden. Matches. No. 122,058; June 8; v. 275; p. 380.
Swendson, Carl D., St. Paul, Minn. Talking-machines. No. 130,182; June 8; v. 275; p. 405.
Tiffany & Company, New York, N. Y. Shopping-bags, suit-cases, portfolios, &c. No. 128,224; June 8; v. 275; p. 395.
Tiffany & Company, New York, N. Y. Writing-paper, mailing-envelops, blank books, &c. No. 128,251; June 8; v. 275; p. 395.
Toy Tinkers, The, Evanston, Ill. Dolls, figure toys, rattles, duck-games, &c. No. 125,813; June 8; v. 275; p. 386.
Trau and Loevner, Pittsburgh, Pa., and New York, N. Y. Neckties and cravats. No. 129,755; June 8; v. 275; p. 161.
Troy Dry Goods Co. Inc., Troy, N. Y. Corn-starch, raisins, jellies, jams, canned vegetables, &c. No. 125,263; June 8; v. 275; p. 385.
Tulchinsky, Benjamin, Chicago, Ill. Hats, caps, and neckwear. No. 126,429; June 8; v. 275; p. 389.
U. S. Brewers & Bottlers Supply Export Co. Inc., New York, N. Y. Bottle-caps. No. 129,519; June 8; v. 275; p. 400.
U. S. Garter & Suspender Company, Chicago, Ill. Garters, hose-supporters, armbands, and suspenders. No. 123,144; June 8; v. 275; p. 382.
U. S. Reduction & Atomizing Co., Herrin, Ill., and St. Louis, Mo. Coal products. No. 128,809; June 8; v. 275; p. 397.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. No. 123,671; June 8; v. 275; p. 383.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. Nos. 130,857–62; June 8; v. 275; p. 409.
United Baking Co., Louisville, Ky. Bread. No. 130,935; June 8; v. 275; p. 410.
United Drug Company, Boston, Mass. Nipples, infants' rubber water-bottles, rubber sheeting, &c. No. 127,622; June 8; v. 275; p. 392.
United Drug Company, Boston, Mass. Shoes. No. 127,623; June 8; v. 275; p. 392.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Slippers made of felt and felt and leather. No. 126,337; June 8; v. 275; p. 388.
United States Wax Corporation, Brooklyn, N. Y. Nightlights. No. 126,264; June 8; v. 275; p. 388.
V. & L. Chemical Co., Inc., Brooklyn, N. Y. Writing-ink. No. 130,856; June 8; v. 275; p. 409.
Vanadium Chemical Company, Pittsburgh, Pa. Medicinal preparation for the treatment of teeth and gums. No. 127,947; June 8; v. 275; p. 394.
Victory Drug & Medicine Co., The, Columbus, Ohio. Medicinal preparation for rheumatism, stomach and kidney trouble, neuralgia, &c. No. 121,684; June 8; v. 275; p. 380.
Walker, John H., Ravensthorpe, near Wewsbury, England. Dresses, robes, costumes, gloves, drawers, &c. No. 117,962; June 8; v. 275; p. 377.
Walker, John H., Ravensthorpe, near Dewsbury, England. Dresses, robes, costumes, gloves, drawers, &c. No. 117,964; June 8; v. 275; p. 377.
Wall & Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, eyeglass-mountings, barometers, &c. No. 130,399; June 8; v. 275; p. 406.
Wall & Ochs, Incorporated, Philadelphia, Pa. Spectacles, eyeglasses, ophthalmic lenses, field-glasses, &c. No. 130,401; June 8; v. 275; p. 406.
Wallenstein, Leo, Brooklyn, N. Y. Stencils. No. 131,241; June 8; v. 275; p. 410.
Wanamaker, John, New York, New York, N. Y. Women's, misses', and children's outer wearing-apparel. No. 119,056; June 8; v. 275; p. 378.
Ward Bros. Co., Inc., Buffalo, N. Y. Bread. No. 130,737; June 8; v. 275; p. 408.
Warrenton Clam Co., Warrenton, Oreg. Canned fish, fruits, and vegetables. No. 129,766; June 8; v. 275; p. 402.
Washburn Crosby Company, Minneapolis, Minn. Wheat-flour. No. 130,076; June 8; v. 275; p. 404.
Waters and Waters Manufacturing Company, St. Louis, Mo. Carbon-paper and inked ribbons. No. 131,842; June 8; v. 275; p. 412.
Watts Ritter & Company, Huntington, W. Va., and New York, N. Y. Dress and negligée shirts. No. 128,124; June 8; v. 275; p. 395.
West End Brewing Co., Utica, N. Y. Non-alcoholic non-cereal maltless beverages and syrup for making same. Nos. 129,993–5; June 8; v. 275; p. 403.
Western Products Co., Cleveland, Ohio. Writing fluid. No. 131,682; June 8; v. 275; p. 411.
Western Soap Products Company, Modesto, Calif. Soap. No. 126,299; June 8; v. 275; p. 388.
White, Lillie, Los Angeles, Calif. Planchette-boards. No. 128,034; June 8; v. 275; p. 394.
Wilkins & Adler, New York, N. Y. Jersey knit cloth in the piece. No. 130,350; June 8; v. 275; p. 406.
Withers, W. Jerome, San Francisco, Calif. Grape-juice. No. 130,074; June 8; v. 275; p. 404.
Wolferman, Fred, Co., Kansas City, Mo. Coffee. No. 130,004; June 8; v. 275; p. 403.
Worcester Felt Goods Company, Worcester, Mass. Slippers. No. 130,307; June 8; v. 275; p. 406.
Young, Howard E., Baltimore, Md. Medicines for rheumatism, lumbago, sore feet, corns, &c. No. 127,707; June 8; v. 275; p. 393.
Zang, Ph., Brewing Company, The, Denver, Colo. Non-intoxicating maltless cereal beverage. No. 129,740; June 8; v. 275; p. 401.
Zensal Company of Oklahoma City, The, Oklahoma, Okla. Laxative tablets. No. 127,072; June 8; v. 275; p. 391.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal support. P. Johnson. No. 1,342,914; June 8; v. 275; p. 308.
Acoustic signaling method. A. Bull. No. 1,342,584; June 8; v. 275; p. 243.
Adding-machine. W. J. Pasinski. No. 1,342,459; June 8; v. 275; p. 218.
Aerial bomb. G. E. Cook. No. 1,343,036; June 8; v. 275; p. 332.
Aeronautic device. J. Kropacz. No. 1,343,055; June 8; v. 275; p. 336.
Aeroplanes, Combined incidence and side-slip indicator for. O. A. Danielson. No. 1,342,944; June 8; v. 275; p. 314.
Agates and similar stones, Machine for cutting. O. C. Reeves. No. 1,342,647; June 8; v. 275; p. 254.
Air compressor and regulator. G. F. Wolfe. No. 1,342,487; June 8; v. 275; p. 224.
Air-motor. O. L. Howe. No. 1,342,811; June 8; v. 275; p. 288.
Aircraft, Apparatus for facilitating the landing of. W. Mortimer and F. Potten. No. 1,342,860; June 8; v. 275; p. 298.
Airplane, Artillery-. P. Gerli and O. A. Ross. No. 1,342,802; June 8; v. 275; p. 286.
Airplane-gun-control system, Synchronized. F. Wenner. No. 1,342,729; June 8; v. 274; p. 271.
Alloy. C. G. Fink. No. 1,342,993; June 8; v. 275; p. 324.
Alloy, Steel. C. M. Johnson. 1,342,911; June 8; v. 275; p. 308.
Amalgamator. S. G. Musser. No. 1,342,567; June 8; v. 275; p. 240.
Ammonium perchlorate from sodium perchlorate and ammonium sulfate, Manufacturing. G. C. Given, H. S. McQuaid and R. A. Long. No. 1,342,956; June 8; v. 275; p. 316.
Amusement device. J. Irsch. No. 1,343,083; June 8; v. 275; p. 342.
Amusement device. A. Javelet. No. 1,343,136; June 8; v. 275; p. 352.
Annealing-furnace. M. U. Wikstrom. No. 1,343,019; June 8; v. 275; p. 329.
Antifriction draw-bar support. A. C. Davidson. No. 1,342,586; June 8; v. 275; p. 244.
Arbor-press. H. D. Twombly. No. 1,342,015; June 8; v. 275; p. 328.
Arch construction, Refractory-. A. H. Willett. No. 1,342,931; June 8; v. 275; p. 312.
Auto-license-indicating device. H. A. Kleine. No. 1,342,850; June 8; v. 275; p. 296.
Automatic brake. A. Swenson. No. 1,342,699; June 8; v. 275; p. 265.
Automatic-gate. E. Bach. No. 1,343,023; June 8; v. 275; p. 330.
Automobile floor-board. L. A. Young. No. 1,343,168; June 8; v. 275; p. 358.
Automobile-identification device. J. R. Green and J. H. Fritz. No. 1,342,627; June 8; v. 275; p. 250.
Automobile-lock. G. C. Jensen. No. 1,342,748; June 8; v. 275; p. 275.
Automobile-locking device. J. P. Geraghty. No. 1,343,049; June 8; v. 275; p. 335.
Automobiles from mudholes, Device for extracting. E. J. Kaczmarek. No. 1,342,749; June 8; v. 275; p. 275.
Automobiles, Gasolene-reservoir for. R. C. Isphording and G. H. Schultz. No. 1,343,173; June 8; v. 275; p. 359.
Automobiles, Lock for steering-posts of. C. R. Welch. No. 1,342,728; June 8; v. 275; p. 271.
Automobiles, Package-carrier for. E. McCoy. No. 1,342,557; June 8; v. 275; p. 238.
Awning. W. H. McOmber. No. 1,342,452; June 8; v. 275; p. 217.
Axle brace, Front-. J. Spohr. No. 1,342,514; June 8; v. 275; p. 229.
Axle construction. A. M. Laycock. No. 1,342,634; June 8; v. 275; p. 252.
Baby-walker. J. J. Webber. No. 1,342,518; June 8; v. 275; p. 230.
Ball-lapping machine. R. W. Sellew. No. 1,343,011; June 8; v. 275; p. 328.
Bandage, Catamenial. F. G. Higgins. No. 1,342,588; June 8; v. 275; p. 244.
Batteries, Apparatus for making wood separators for storage. W. J. Rehrig. No. 1,324,925; June 8; v. 275; p. 310.
Batteries, Cover for storage. W. Gardiner. No. 1,342,954; June 8; v. 275; p. 316.
Batteries, Terminal-seal for storage. M. Shank. No. 1,342,511; June 8; v. 275; p. 228.
Battery construction, Storage-. W. Gardiner. No. 1,342,952; June 8; v. 275; p. 316.
Battery-plates, Active material for. W. Gardiner and W. H. Duggan. No. 1,342,953; June 8; v. 275; p. 316.
Battery separator and producing same, Storage-. T. A. Willard. No. 1,342,611; June 8; v. 275; p. 247.
Bearing. F. V. Johnson. No. 1,342,541; June 8; v. 275; p. 234.
Bearing counter, Ball-. R. B. Austin. No. 1,342,733; June 8; v. 275; p. 272.
Bearing, Double-acting thrust ball-. N. A. Palmgren. No. 1,342,756; June 8; v. 275; p. 276.
Bearing, Horizontal-thrust. A. Kingsbury. (Reissue.) No. 14,878; June 8; v. 275; p. 363.
Bed, Chair-. W. F. Eschenbrenner. No. 1,343,044; June 8; v. 275; p. 334.
Belt-fastening hooks, Method and machine for forming ganged. B. Garllus and F. W. Knott. No. 1,342,712; June 8; v. 275; p. 267.
Belt-making process. C. C. Gates. (Reissue.) No. 14,875; June 8; v. 275; p. 362.
Bicycle. W. H. and J. R. Millward; No. 1,342,688; June 8; v. 275; p. 263.
Billiard-cue lock. A. C. Tyson. No. 1,342,517; June 8; v. 275; p. 229.
Binder attachment, Corn-. A. H. Meilicke. No. 1,342,640; June 8; v. 275; p. 253.
Binder, Loose-leaf. J. Schade. No. 1,342,766; June 8; v. 275; p. 279.
Binder, Loose-leaf. F. Sutherland. No. 1,342,833; June 8; v. 275; p. 292.
Blind, Venetian. J. Cahill. No. 1,342,527; June 8; v. 275; p. 231.
Board: *See*—
Automobile floor-board.
Boarding-machine. C. A. Rausch. No. 1,342,760; June 8; v. 275; p. 277.
Body-stabilizer. C. Munter. No. 1,342,566; June 8; v. 275; p. 239.
Boiler: *See*—
Steam-boiler.
Boiler. W. W. Gillette. No. 1,342,672; June 8; v. 275; p. 259.
Boilers, Washout-plug for. F. Crist. No. 1,342,740; June 8; v. 275; p. 273.
Bolt: *See*—
Clamp-bolt.
Bone-holding device. M. Theimer. No. 1,342,515; June 8; v. 275; p. 229.
Book, Account-. A. Heisterkamp. No. 1,343,082; June 8; v. 275; p. 341.
Book, Loose-leaf. E. A. P. Wolf. No. 1,343,103; June 8; v. 275; p. 346.
Boring-bar cutters, Adjusting means for. W. E. Kelly. No. 1,342,447; June 8; v. 275; p. 216.
Bottle attachment, Nursing-. L. D. Clark. No. 1,343,113; June 8; v. 275; p. 348.
Bottle-carrier, Individual. G. C. Pearson. No. 1,342,568; June 8; v. 275; p. 240.
Bottle-holder. M. J. Hyland. No. 1,342,747; June 8; v. 275; p. 274.
Bottle-stopper. G. Wolferman. No. 1,342,657; June 8; v. 275; p. 256.
Bottles, Attachment for thermos-. C. H. Wilson and C. G. Lee. No. 1,342,883; June 8; v. 275; p. 302.
Box: *See*—
Mail-box.
Match-box.
Phonograph sound-box.
Safety panel-box.
Shoe-polish box.
Brace: *See*—
Vehicle-frame frame.
Bracket: *See*—
Cuspidor-bracket.
Shade and curtain bracket.
Bracket. J. H. Wright. No. 1,342,659; June 8; v. 275; p. 256.
Braiding-machines, Rubber-core-tensioning mechanism for. F. W. Plumb. No. 1,342,646; June 8; v. 275; p. 254.
Brake: *See*—
Automatic brake.
Hand-brake.
Safety-brake.

Brake mechanism. W. H. Sauvage. No. 1,342,599; June 8; v. 275; p. 246.
Brush, Combination fountain-. M. Zaboy. No. 1,342,492; June 8; v. 275; p. 225.
Brush, Shoe shining or polishing. G. A. Reitzel. No. 1,342,971; June 8; v. 275; p. 319.
Brushes, Mounting for dynamo-. H. E. Borger. No. 1,342,583; June 8; v. 275; p. 243.
Bucket, Clam-shell. H. Le Gear. No. 1,342,996; June 8; v. 275; p. 325.
Bucket, Sanitary non-spillable milk-. P. W. Pick. No. 1,342,569; June 8; v. 275; p. 240.
Bucket, Well-. C. D. Behan. No. 1,342,414; June 8; v. 275; p. 209.
Buggy-body. F. Tucker. No. 1,343,068; June 8; v. 275; p. 339.
Building constructions, Sound-insulating devices for. H. B. Wheeler. No. 1,342,610; June 8; v. 275; p. 247.
Bundle or package tying machine. A. Bluege. No. 1,342,981; June 8; v. 275; p. 321.
Bunsen-burner. C. M. Johnson. No. 1,342,912; June 8; v. 275; p. 308.
Burner: *See*—
Bunsen burner. Liquid-fuel burner.
Gas-burner.
Bushing-remover. H. D. Lindenmuth. No. 1,342,852; June 8; v. 275; p. 296.
Butter, Machine for making. J. A. Shearer. No. 1,342,091; June 8; v. 275; p. 343.
Button. R. W. Fox. No. 1,343,080; June 8; v. 275; p. 341.
Button machine, Pearl-. P. F. Dusha and A. Feyk. No. 1,343,042; June 8; v. 275; p. 333.
Button, Soft-collar. J. E. Speyer. No. 1,343,096; June 8; v. 275; p. 344.
Cabinet. C. B. Landis. No. 1,342,851; June 8; v. 275; p. 296.
Cabinet, Bath-. D. L. Thompson. No. 1,342,474; June 8; v. 275; p. 221.
Cabinet, Laying-. J. F. Ellis. No. 1,342,434; June 8; v. 275; p. 214.
Cabinet-locking device. F. H. Hoberg. No. 1,342,961; June 8; v. 275; p. 317.
Cabinet or casing, Sewing-machine. A. E. Lee and E. G. Milsted. No. 1,342,820; June 8; v. 275; p. 290.
Cable or monorail tramway and vehicle for same. S. A. Rogers. No. 1,342,926; June 8; v. 275; p. 311.
Cake-cutting machine. J. T. Shillito. No. 1,342,875; June 8; v. 275; p. 301.
Calculating-machine. A. Pentecost. No. 1,342,969; June 8; v. 275; p. 319.
Camera, Copying or enlarging. J. Becker. No. 1,342,735; June 8; v. 275; p. 272.
Can-washer. G. C. Wiltsie. No. 1,342,485; June 8; v. 275; p. 223.
Cans, Reversible pouring-spout for. M. M. Marcuse. No. 1,342,639; June 8; v. 275; p. 252.
Cans, Slip-cover for. H. L. Strongson. No. 1,343,099; June 8; v. 275; p. 345.
Candy-making machine. L. E. Dykeman; No. 1,343,120; June 8; v. 275; p. 349.
Car-door lock. P. Schneider. No. 1,342,465; June 8; v. 275; p. 219.
Car-roof. T. N. Russell. No. 1,342,510; June 8; v. 275; p. 228.
Car, Sleeping-. H. D. Wilson. No. 1,342,702; June 8; v. 275; p. 265.
Cars, End construction for railway-. V. E. Sisson. No. 1,342,604; June 8; v. 275; p. 246.
Cars, Yoke for railway-. H. L. Spence. No. 1,342,696; June 8; v. 275; p. 264.
Carbon compounds, Hydrogenating. F. Bergius. No. 1,342,790; June 8; v. 275; p. 284.
Carburetor. R. E. L. Janney. No. 1,342,445; June 8; v. 275; p. 216.
Carburetor control. H. S. McCutchan. No. 1,342,966; June 8; v. 275; p. 318.
Carpet-cleaner apparatus. M. R. Johnson and O. N. Halverson. No. 1,343,137; June 8; v. 275; p. 352.
Carriages and other vehicles, Sleigh-runner attachment for baby-. H. Fleckl and W. J. Boyd. No. 1,343,046; June 8; v. 275; p. 334.
Carrier: *See*—
Bottle-carrier.
Cart, Barrel-. J. C. Gordon. No. 1,342,437; June 8; v. 275; p. 214.
Casket-handle. H. W. Hodgetts. No. 1,342,443; June 8; v. 275; p. 215.
Caster. A. E. Finch. No. 1,342,500; June 8; v. 275; p. 226.
Caster. D. M. Kennedy. No. 1,342,448; June 8; v. 275; p. 216.
Casting. J. L. Ware. No. 1,343,017; June 8; v. 275; p. 329.
Casting apparatus. F. H. Vallender. No. 1,343,016; June 8; v. 275; p. 329.
Cellulose-acetate composition. P. C. Seel. No. 1,342,603; June 8; v. 275; p. 246.
Cellulose composition and making same, Acetyl-. J. G. Jarvis. No. 1,343,135; June 8; v. 275; p. 352.
Cellulose-ester composition and making same. P. C. Seel. No. 1,342,601; June 8; v. 275; p. 246.
Cellulose-nitrate composition. P. C. Seel. No. 1,342,602; June 8; v. 275; p. 246.
Centrifugal drier. G. H. Elmore. No. 1,342,743; June 8; v. 275; p. 273.
Chain coupling, Antiskid-. P. Arnolts. No. 1,342,616; June 8; v. 275; p. 248.
Chair: *See*—
Commode-chair. Folding chair.
Change-speed mechanism. W. T. Sears. No. 1,342,928; June 8; v. 275; p. 311.
Chart, Translating-. M. F. Charrier. No. 1,343,112; June 8; v. 275; p. 347.
Check, order, and commercial letter, Combined advance-discount voucher-. J. H. Camp. No. 1,343,110; June 8; v. 275; p. 347.
Chillan mill, Multiple-process. C. C. Lane. No. 1,342,917; June 8; v. 275; p. 309.
Cigar-bunches, Machine for applying paper molds to. L. R. Gindrat. No. 1,343,125; June 8; v. 275; p. 350.
Cigar holder and saver. J. Skinderviken. No. 1,342,512; June 8; v. 275; p. 229.
Cigarette-holder. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,342,868; June 8; v. 275; p. 299.
Circuit-breaking apparatus, Overload-. E. O. Schweitzer. (Reissue.) No. 14,881; June 8; v. 275; p. 363.
Circuit-closer, Cam-operated. H. McNicholas. No. 1,342,591; June 8; v. 275; p. 244.
Clamp: *See*—
Miter-frame clamp. Warp-clamp.
Rope-clamp.
Clamp. G. More. No. 1,342,563; June 8; v. 275; p. 239.
Clamp-bolt. E. J. Ruquet, Jr. No. 1,343,089; June 8; v. 275; p. 343.
Clamping machine, Quick-acting frame-. O. Bergstrom. No. 1,342,891; June 8; v. 275; p. 304.
Cleaner: *See*—
Cuspidor-cleaner. Well-cleaner.
Record-cleaner.
Cleaning device, Suction. W. V. Orr. No. 1,342,592; June 8; v. 275; p. 245.
Cleaning-machine, Vacuum. W. V. Orr. No. 1,342,593; June 8; v. 275; p. 245.
Cleansing and polishing composition. A. Muhn. No. 1,342,862; June 8; v. 275; p. 298.
Clip or clasp. W. H. Stevens. No. 1,342,698; June 8; v. 275; p. 265.
Closet-bowl. F. J. Clifford and L. A. Perry. No. 1,342,499; June 8; v. 275; p. 226.
Closet-seat lid. G. E. Kinch. No. 1,342,505; June 8; v. 275; p. 227.
Closet-ventilator. E. A. Johnston. No. 1,342,716; June 8; v. 275; p. 268.
Cloth, Machine for cutting strips of. H. Brown. No. 1,342,621; June 8; v. 275; p. 249.
Clothespin. J. Muck. No. 1,342,755; June 8; v. 275; p. 276.
Clutch-controlling mechanism. J. F. Ryan. No. 1,342,762; June 8; v. 275; p. 278.
Combustion method, Confined-. J. Good. No. 1,342,901; June 8; v. 275; p. 306.
Commode-chair, Folding. A. A. Howe. No. 1,342,715; June 8; v. 274; p. 268.
Concrete hulls, Compressor-mold for forming. E. A. Larsen. No. 1,343,176; June 8; v. 275; p. 360.
Concrete piles, Method and apparatus for constructing. S. M. Cotten. No. 1,342,424; June 8; v. 275; p. 212.
Condenser and separator. C. W. Hottmann. No. 1,342,810; June 8; v. 275; p. 288.
Condensers, Auxiliary apparatus for. R. Suczek. No. 1,342,471; June 8; v. 275; p. 221.
Condiment-holder. E. Ament. No. 1,342,524; June 8; v. 275; p. 231.
Container structure. J. P. Markert. No. 1,342,002; June 8; v. 275; p. 326.
Conveyer. J. A. Anderson. No. 1,342,789; June 8; v. 275; p. 284.
Conveyer or elevator, Smooth-band. J. L. Lemoine. No. 1,342,684; June 8; v. 275; p. 262.
Conveying and discharging apparatus. E. B. Stone. No. 1,342,975; June 8; v. 275; p. 320.
Cooking utensils, False bottom for. F. M. Colson. No. 1,343,114; June 8; v. 275; p. 348.
Copper, Extracting. A. A. Ossa. No. 1,343,153; June 8; v. 275; p. 353.
Cornet-mute. P. Santa Emma. No. 1,342,846; June 8; v. 275; p. 295.
Counter. S. A. Comiskey. No. 1,342,665; June 8; v. 275; p. 257.
Coupling: *See*—
Chain-coupling. Gear-coupling.
Flexible coupling.
Coupling or clutch. J. W. Barber. No. 1,342,936; June 8; v. 275; p. 313.
Crane. A. Welin. No. 1,342,480; June 8; v. 275; p 222.
Crate, Folding. J. McCauley. No. 1,342,750; June 8; v. 275; p. 275.
Clutch. A. B. Louison. No. 1,342,506; June 8; v. 275; p. 227.
Cultivators, Weeding attachment for. C. M. and M. V. Long. No. 1,343,058; June 8; v. 275; p. 337.
Curtain, Automobile-. J. J. Moore. No. 1,343,148; June 8; v. 275; p. 354.
Curtains, Window-frame for vehicle-. E. E. Pemble. No. 1,342,460; June 8; v. 275; p. 218.
Cushion: *See*—
Spring-cushion.

Cushion-wheel. G. M. Peters. No. 1,342,461; June 8; v. 275; p. 218.
Cuspidor bracket, Sanitary-. W. G. Batson. No. 1,342,889; June 8; v. 275; p. 303.
Cuspidor-cleaner. C. Cosme. No. 1,342,739; June 8; v. 275; p. 273.
Cutter-head. J. A. Eden, Jr. No. 1,342,535; June 8; v. 275; p. 233.
Davenport. F. B. Wersel, Jr. No. 1,342,785; June 8; v. 275; p. 283.
Depositing-machine. F. G. Salerno. No. 1,342,598; June 8; v. 275; p. 246.
Differential and driving mechanism. P. G. Beremand. No. 1,342,938; June 8; v. 275; p. 313.
Dipper, Excavating-. M. E. Pugh. No. 1,342,759; June 8; v. 275; p. 277.
Direction-indicating device. T. B. Wright. No. 1,342,788; June 8; v. 275; p. 283.
Doll-house. K. Suyehiro. No. 1,343,065; June 8; v. 275; p. 338.
Door. E. H. McCloud. No. 1,342,751; June 8; v. 275; p. 275.
Door-spring. J. A. Campbell. No. 1,343,033; June 8; v. 275; p. 332.
Doors and windows, Fly-exit for screen. R. B. Watson and J. C. Kitterman. No. 1,343,069; June 8; v. 275; p. 339.
Dough-feeding device. R. E. Baker, E. H. Ford, and L. S. Harber. No. 1,343,184; June 8; v. 275; p. 361.
Drier: *See*—
Centrifugal drier.
Drill. R. D. Maddox. No. 1,343,180; June 8; v. 275; p. 360.
Drum-beater. G. A. Smith. No. 1,343,163; June 8; v. 275; p. 357.
Drum-beater. G. A. Smith. No. 1,343,164; June 8; v. 275; p. 358.
Drum-winding machine. B. D. Coppage. No. 1,342,532; June 8; v. 275; p. 232.
Duplicating-machine. H. Cohn. No. 1,342,530; June 8; v. 275; p. 232.
Dyeing-machine. H. M. Dudley. No. 1,342,711; June 8; v. 275; p. 267.
Easel. C. S. Hurlbut. No. 1,343,054; June 8; v. 275; p. 336.
Education appliance. T. M. Smith. No. 1,343,095; June 8; v. 275; p. 344.
Electric cord, Grip-fitting for. E. C. White. No. 1,342,787; June 8; v. 275; p. 283.
Electric-light socket. L. E. Wood. No. 1,342,658; June 8; v. 275; p. 256.
Electric-light switch. D. A. Byerly. No. 1,343,109; June 8; v. 275; p. 347.
Electric water-heater. W. D. Huff. No. 1,343,134; June 8; v. 275; p. 352.
Electrical apparatus. J. J. Frank. No. 1,342,995; June 8; v. 275; p. 324.
Electric cut-out. C. Dantsizen. No. 1,343,039; June 8; v. 275; p. 333.
Electrical detecting machine. E. L. Welch. No. 1,342,835; June 8; v. 275; p. 293.
Electrometallurgical furnace. F. Louvrier. No. 1,342,636; June 8; v. 275; p. 252.
Elevator: *See*—
Grain-elevator.
Elevator. T. J. Sturtevant and W. T. Doyle. No. 1,342,470; June 8; v. 275; p. 220.
Elevator mechanism. J. A. Pickens and W. F. Hester. No. 1,342,596; June 8; v. 275; p. 245.
Elevators, Safety antitilting device for. G. B. Davis. No. 1,343,118; June 8; v. 275; p. 349.
Embalming device. C. S. Harrell. No. 1,342,997; June 8; v. 275; p. 325.
Engine: *See*—
Expansion-engine. Rotary-engine.
Gas-engine. Traction-engine.
Internal-combustion engine
Engine. C. C. Clayberg. No. 1,342,498; June 8; v. 275; p. 226.
Engine-starter. F. E. Watts. No. 1,342,478; June 8; v. 275; p. 222.
Engine-starting apparatus. J. Bijur. No. 1,343,028; June 8; v. 275; p. 331.
Engine-starting apparatus. J. Bijur. No. 1,343,029; June 8; v. 275; p. 331.
Engine-starting apparatus. J. Bijur. No. 1,343,030; June 8; v. 275; p. 331.
Engine-starting apparatus. L. M. Woolson. No. 1,343,020; June 8; v. 275; p. 329.
Engines, Balancing of reciprocating. H. R. Ricardo. No. 1,342,648; June 8; v. 275; p. 254.
Engines, Bed for vertical internal-combustion. H. H. Blache. No. 1,342,939; June 8; v. 275; p. 313.
Engines, Carburetor for gasolene-. C. F. Schulz. (Reissue.) No. 14,880; June 8; v. 275; p. 363.
Engines, Cooling arrangement for exhaust-valves of internal-combustion. G. Cattaneo. No. 1,343,111; June 8; v. 275; p. 347.
Engines, Crank for light high-speed. E. Labitotière. No. 1,342,683; June 8; v. 275; p. 261.
Engines, Cylinder for internal-combustion. E. Schneider. No. 1,343,161; June 8; v. 275; p. 357.
Engines, Defiooder for internal-combustion. F. L. Maytag. No. 1,342,558; June 8; v. 275; p. 238.
Engines, Fuel-vaporizer for combustion-. C. C. Hedges. No. 1,343,053; June 8; v. 275; p. 336.
Engines, Internal-combustion chamber for. J. Konar. No. 1,342,449; June 8; v. 275; p. 216.
Engines, Means for applying electric motors to winding-. A. Palmros. No. 1,342,757; June 8; v. 275; p. 277.
Engines, Means for heating the charges in internal-combustion. H. R. Ricardo. No. 1,342,869; June 8; v. 275; p. 299.
Engines, Operating internal-combustion. D. L. Winters. No. 1,342,656; June 8; v. 275; p. 256.
Engines, Water-cooled working-cylinder for internal-combustion. F. A. Lagersten. No. 1,342,633; June 8; v. 275; p. 251.
Envelop. C. L. Benedict. No. 1,343,075; June 8; v. 275; p. 340.
Envelop-machine. H. Levine. No. 1,343,146; June 8; v. 275; p. 354.
Erecting-machine. C. G. Hastings. No. 1,342,503; June 8; v. 275; p. 227.
Excavator. E. D. Callen. No. 1,342,895; June 8; v. 275; p. 305.
Expansion-engine. A. V. Larson. No. 1,343,056; June 8; v. 275; p. 336.
Explosive, Ammonium-nitrate. J. B. Bronstein and C. E. Waller. No. 1,343,077; June 8; v. 275; p. 341.
Explosive, Ammonium-nitrate. W. O. Snelling. No. 1,343,063; June 8; v. 275; p. 338.
Extension-table. C. R. Wennerstrom. No. 1,342,481; June 8; v. 275; p. 222.
Eyeglass-mounting. C. M. Haynes. No. 1,342,808; June 8; v. 275; p. 288.
Eyeglass or spectacle frames, Hinge for. E. E. Shreiner. No. 1,342,973; June 8; v. 275; p. 320.
Fabric: *See*—
Pile fabric.
Fabrics, Method and means for treating light-weight. W. Bancroft. No. 1,342,935; June 8; v. 275; p. 313.
Fastener. J. P. Burke. No. 1,342,738; June 8; v. 275; p. 272.
Feed-changing mechanism. E. C. Head. No. 1,343,132; June 8; v. 275; p. 351.
Feed-water heater. K. Baumann. No. 1,342,841; June 8; v. 275; p. 294.
Feeder, Chick-. F. R. Shoultz. No. 1,343,093; June 8; v. 275; p. 344.
Fence-panel. J. Manelich; No. 1,342,453; June 8; v. 275; p. 217.
Fiber from palms, Machine for extracting. H. H. Holdaway. No. 1,342,714; June 8; v. 275; p. 268.
Filling-detector mechanism. C. H. Draper and J. Northrop. No. 1,342,710; June 8; v. 275; p. 267.
Filter. E. F. Atkins. No. 1,342,839; June 8; v. 275; p. 294.
Filter. E. J. Sweetland. No. 1,343,182; June 8; v. 275; p. 361.
Filter-press. H. T. Shriver. No. 1,342,829; June 8; v. 275; p. 292.
Fire-extinguisher, Chemical. K. Schmidt. No. 1,342,768; June 8; v. 275; p. 279.
Fire-extinguisher, Hand-operated. C. L. Bastian. No. 1,342,580; June 8; v. 275; p. 242.
Firearms, Flash and recoil reducer for. F. W. Young. No. 1,342,978; June 8; v. 275; p. 321.
Fireproof elevator-door. B. Wexler. No. 1,342,482; June 8; v. 275; p. 223.
Flagstaff. C. A. Keeley. No. 1,343,140; June 8; v. 275; p. 353.
Flexible coupling. W. J. Francke. No. 1,343,121; June 8; v. 275; p. 349.
Flour-bins, Sifter for. J. H. Dean. No. 1,342,989; June 8; v. 275; p. 323.
Fire-pan. T. A. Legg. No. 1,342,918; June 8; v. 275; p. 309.
Flytrap. A. R. Anderson. No. 1,342,933; June 8; v. 275; p. 312.
Folding chair. M. Schlegel. No. 1,342,650; June 8; v. 275; p. 255.
Food preparation and making same. A. Schwarcman. No. 1,342,827; June 8; v. 275; p. 291.
Foot-treating appliance. H. A. Post. No. 1,342,597; June 8; v. 275; p. 245.
Footrest. J. Dunlap. No. 1,343,119; June 8; v. 275; p. 349.
Footwear, Last for. R. B. Price. No. 1,342,970; June 8; v. 275; p. 319.
Frame: *See*—
Picture-frame.
Fruit according to size, Machine for assorting. E. S. Porter. No. 1,342,571; June 8; v. 275; p. 241.
Fuel and producing same. G. H. Fritzsche. No. 1,342,799; June 8; v. 275; p. 286.
Fuel with high efficiency, Process and apparatus for burning gaseous. T. J. Stephens. No. 1,343,098; June 8; v. 275; p. 345.
Fuels and light paraffin-oils from shale; and benzene, toluene, and solvent naphtha from coal, Obtaining motor-. E. W. Thurlow. No. 1,343,100; June 8; v. 275; p. 345.
Furnace: *See*—
Annealing-furnace.
Electrometallurgical furnace.
Furnace. C. Haner, Jr. No. 1,342,958; June 8; v. 275; p. 317.

Furnace construction. H. B. Holt. No. 1,342,908; June 8; v. 275; p. 307.

Furnaces, with apparatus intended therefor, Method for the heating of material or the performance of chemical processes in electrical. T. A. F. Holmgren and C. T. Thorssell. No. 1,342,809; June 8; v. 275; p. 288.

Fuse. F. A. Sullivan and W. L. Lukins. No. 1,342,652; June 8; v. 275; p. 255.

Fuse for explosive shells or bombs, Time-. H. Austin. No. 1,342,413; June 8; v. 275; p. 209.

Gage: *See*—
Sewing-machine gage.

Game apparatus. G. W. Anderson. No. 1,342,884; June 8; v. 275; p. 303.

Garden-cultivator. H. W. Morgan. No. 1,342,642; June 8; v. 275; p. 253.

Garment-protector. R. G. Tuck. No. 1,343,166; June 8; v. 275; p. 358.

Garment-turning machines, Attachment for. W. A. Barnett. No. 1,342,937; June 8; v. 275; p. 313.

Gas-burner. W. J. Barber. No. 1,342,617; June 8; v. 275; p. 248.

Gas-burner. J. A. Fry. No. 1,342,436; June 8; v. 275; p. 214.

Gas-engine. G. L. Meyer. No. 1,342,922; June 8; v. 275; p. 310.

Gas-engine. H. L. Thompson. No. 1,342,977; June 8; v. 275; p. 320.

Gas-meter. J. R. Armstrong. No. 1,342,886; June 8; v. 275; p. 303.

Gases, Apparatus for the electrical treatment of. H. W. Squires. No. 1,342,651; June 8; v. 275; p. 255.

Gases, Method of and apparatus for analyzing. C. W. Heath. No. 1,342,539; June 8; v. 275; p. 234.

Gate: *See*—
Automatic gate. Wagon end-gate.

Gear. J. F. Franklin. No. 1,343,047; June 8; v. 275; p. 334.

Gear-coupling. P. Bossu. No. 1,343,031; June 8; v. 275; p. 331.

Gear, Speed-change. G. E. Medley. No. 1,342,920; June 8; v. 275; p. 309.

Germicide and insecticide. L. Cheeseman. No. 1,343,034; June 8; v. 275; p. 332.

Glass, Apparatus for making sheet-. J. C. Crowley. No. 1,342,533; June 8; v. 275; p. 233.

Glass bodies, Machine for making hollow. G. A. Leiman. No. 1,342,821; June 8; v. 275; p. 290.

Glass, Casting-table for plate-. F. E. Troutman. No. 1,342,014; June 8; v. 275; p. 328.

Glass-discharging device. S. L. Sears. No. 1,343,183; June 8; v. 275; p. 361.

Glass-drawing apparatus. A. E. Spinasse. No. 1,343,186; June 8; v. 275; p. 361.

Glass, Ladling. H. F. Hitner. No. 1,342,960; June 8; v. 275; p. 317.

Glasses, Closure for jelly-. T. L. Taliaferro. No. 1,343,013; June 8; v. 275; p. 328.

Glassware-forming mechanism. G. P. MacNichol. No. 1,343,179; June 8; v. 275; p. 360.

Glazing-machine. S. A. Kost and W. Yaeger. No. 1,342,450; June 8; v. 275; p. 216.

Globe, Demonstration-. M. Manson. No. 1,343,181; June 8; v. 275; p. 361.

Grain-elevator. J. H. A. Brahtz. No. 1,342,418; June 8; v. 275; p. 210.

Gravel, Apparatus for screening and washing. R. W. Dull. No. 1,342,990; June 8; v. 275; p. 323.

Griddle. E. W. Howe. No. 1,342,444; June 8; v. 275; p. 215.

Grounding device. C. W. Pen Dell. No. 1,342,645; June 8; v. 275; p. 254.

Guitars, Steel for. M. Neft. No. 1,342,718; June 8; v. 275; p. 269.

Gun-control. S. M. Thompson. No. 1,342,475; June 8; v. 275; p. 221.

Gun, Trap-. G. H. Thompson. No. 1,343,066; June 8; v. 275; p. 338.

Guns, Construction of links for ammunition-belts for machine-. W. de C. Prideaux. No. 1,343,060; June 8; v. 275; p. 337.

Guns, Electric sight-controlling mechanism for anti-aircraft. R. V. Morse. No. 1,343,003; June 8; v. 275; p. 326.

Gyroscopic navigational apparatus. H. L. Tanner. No. 1,343,188; June 8; v. 275; p. 362.

Hair-clipper. G. A. Lafontaine. No. 1,343,175; June 8; v. 275; p. 359.

Hair-plane and safety-razor. E. A. Zimmerman. No. 1,342,494; June 8; v. 275; p. 225.

Hairpin. M. Liebers. No. 1,342,822; June 8; v. 275; p. 290.

Hammer, Trip-. A. Vincent. No. 1,342,782; June 8; v. 275; p. 282.

Hammer, Vacuum pneumatic. J. C. Campbell. No. 1,342,984; June 8; v. 275; p. 322.

Hammers, Lubricating device for riveting-. J. Autorino. No. 1,343,104; June 8; v. 275; p. 346.

Hand-brake. W. F. Richards. No. 1,343,061; June 8; v. 275; p. 337.

Hand-brake. W. H. Sauvage. No. 1,343,005; June 8; v. 275; p. 327.

Hand-brake. W. H. Sauvage. No. 1,343,006; June 8; v. 275; p. 327.

Hand-brake. W. H. Sauvage. No. 1,343,007; June 8; v. 275; p. 327.

Hand-brake. W. H. Sauvage. No. 1,343,008; June 8; v. 275; p. 327.

Hand-brake. W. H. Sauvage. No. 1,343,009; June 8; v. 275; p. 327.

Handle: *See*—
Casket-handle. Suitcase-handle.
Implement-handle. Valve-handle.

Handles of tools, Means for securing heads to. S. J. Shepard. No. 1,342,929; June 8; v. 275; p. 311.

Hanger: *See*—
Soap-hanger.

Harrow-shoe. R. S. Mix. No. 1,342,454; June 8; v. 275; p. 217.

Harvester, Belt-. P. J. Cleereman. No. 1,342,795; June 8; v. 275; p. 285.

Harvester, Cotton-. W. H. Chancellor. No. 1,342,528; June 8; v. 275; p. 232.

Hatband. J. M. Powers. No. 1,342,924; June 8; v. 275; p. 310.

Hatch-cover. J. S. Wood. No. 1,342,612; June 8; v. 275; p. 248.

Hats, Machine for blocking and pressing. W. H. Kendall. No. 1,343,185; June 8; v. 275; p. 361.

Headlight control, Automobile-. D. E. Kidder. No. 1,343,143; June 8; v. 275; p. 353.

Heater: *See*—
Electric water-heater. Tire-heater.
Feed-water heater.

Heater. I. C. Popper and C. H. Bayer. No. 1,342,570; June 8; v. 275; p. 240.

Heating apparatus. J. Erskine. No. 1,342,991; June 8; v. 275; p. 323.

Hemp or other fibrous material, Machine for treating or breaking and scutching. W. A. Shely. No. 1,342,771; June 8; v. 275; p. 280.

Hemp or other fibrous material, Machine for breaking and scutching. W. A. Shely. No. 1,342,772; June 8; v. 275; p. 280.

Hides or skins, Liming and other tanning operations upon. C. M. Owen. No. 1,342,866; June 8; v. 275; p. 299.

Hinge, Harrow-. R. A. Andes. No. 1,342,614; June 8; v. 275; p. 248.

Hitch. L. A. Thomas. No. 1,342,725; June 8; v. 275; p. 270.

Hog catcher and turner. J. F. Block. No. 1,342,893; June 8; v. 275; p. 304.

Holdback. R. Tallon. No. 1,342,724; June 8; v. 275; p. 270.

Holder. E. McCallum. No. 1,342,853; June 8; v. 275; p. 296.

Hopper, Movable loading-. A. P. Lee. No. 1,342,919; June 8; v. 275; p. 309.

Horseshoe. R. Arluchi. No. 1,342,615; June 8; v. 275; p. 248.

Horsetail-holder. H. Liechty. No. 1,343,147; June 8; v. 275; p. 354.

Hose coupling, nipples, bands, &c., Apparatus for applying and removing. A. J. Sarjeant. No. 1,342,763; June 8; v. 275; p. 278.

Hose-supporter. J. W. Crouch. No. 1,342,666; June 8; v. 275; p. 258.

Hot-air motor. L. D. Freeland. No. 1,342,501; June 1; v. 275; p. 226.

House: *See*—
Doll-house.

Hydraulic air-motor. J. A. Knowlton. No. 1,342,682; June 8; v. 275; p. 261.

Hydraulic power device, Portable. H. J. Dana. No. 1,343,117; June 8; v. 275; p. 349.

Hydrocarbon-motor. L. K. Snell. No. 1,342,830; June 8; v. 275; p. 292.

Hydrogen-circulation process. C. Ellis. No. 1,342,668; June 8; v. 275; p. 258.

Ice-cream-dispensing device. W. L. Hix. No. 1,342,675; June 8; v. 275; p. 260.

Ignition device. R. N. Wood. No. 1,342,837; June 8; v. 275; p. 293.

Ignition-magneto. J. R. Stark. No. 1,342,607; June 8; v. 275; p. 247.

Illuminating apparatus. L. W. Bugbee. No. 1,342,894; June 8; v. 275; p. 305.

Implement-handle. J. V. Smith. No. 1,342,467; June 8; v. 275; p. 220.

Insole. H. McMaster. No. 1,342,967; June 8; v. 275; p. 319.

Intake-manifolds, Heater for. G. C. Shinn. No. 1,343,092; June 8; v. 275; p. 343.

Internal-combustion engine. R. H. Case. No. 1,342,422; June 8; v. 275; p. 211.

Internal-combustion engine. A. Fehlmann and G. Hintermann. No. 1,342,950; June 8; v. 275; p. 315.

Internal-combustion engine. E. T. Kershaw. No. 1,343,142; June 8; v. 275; p. 353.

Internal-combustion engine. F. H. Leinweber. No. 1,342,553; June 8; v. 275; p. 237.

Internal-combustion engine. M. E. Stockwell. No. 1,342,723; June 8; v. 275; p. 270.

Internal-combustion engine. H. L. Thompson. No. 1,342,976; June 8; v. 275; p. 320.

Internal-combustion engine. C. C. Wickwire. No. 1,342,483; June 8; v. 275; p. 223.

Iron: *See*—
Puddling-iron.

Iron and steel plates, Finishing. C. Williams. No. 1,342,484; June 8; v. 275; p. 223.

Iron or steel articles, Coloring. H. F. Jermain. No. 1,342,910; June 8; v. 275; p. 308.

Ironing machine, Seam-. G. Boulton and G. J. Gorsuch. No. 1,352,417; June 8; v. 275; p. 210.

Irons, Switch attachment for electric. C. H. Helling. No. 1,342,905; June 8; v. 275; p. 307.

Irrigating device, Plant-. D. R. White. No. 1,342,786; June 8; v. 275; p. 283.

Joint: *See*—
Rail-joint.

Joint. G. L. Beltner. No. 1,342,979; June 8; v. 275; p. 321.

Ladles, Gas-burner for drying. F. W. Allen, A. Fletcher, and G. E. Hitchens. No. 1,342,932; June 8; v. 275; p. 312.

Lamp construction. C. L. De Martin and H. C. Foster. No. 1,342,426; June 8; v. 275; p. 212.

Lamp, Mercury-vapor. M. J. Cornu. No. 1,343,037; June 8; v. 275; p. 333.

Lamp-stems, Tray for. J. E. Jambor. (Reissue.) No. 14,577; June 8; v. 275; p. 362.

Lamps, Refractive glass for automobile-. H. S. Evans. No. 1,342,744; June 8; v. 275; p. 274.

Lamps, Vaporizer-strainer for. A. G. Kaufman. No. 1,342,849; June 8; v. 275; p. 296.

Lathe-headstocks, Lubricating system for. G. E. Greenleaf. No. 1,342,904; June 8; v. 275; p. 307.

Lathe-tool. F. H. Halstead. No. 1,342,745; June 1; v. 275; p. 274.

Lathe-tool. F. H. Halstead. No. 1,342,746; June 8; v. 275; p. 274.

Leak-stopping composition. G. W. B. Neff. No. 1,343,150; June 8; v. 275; p. 355.

Lens-grinding machine. C. Goodwin. No. 1,343,050; June 8; v. 275; p. 335.

Letter-box-closure operator. G. E. Benton. No. 1,342,890; June 8; v. 275; p. 304.

Linotype-mold. C. B. Hill. No. 1,343,171; June 8; v. 275; p. 359.

Liquid-dispensing device. W. F. Lerch. No. 1,343,085; June 8; v. 275; p. 342.

Liquid-distributing apparatus. G. Moore. No. 1,342,859; June 8; v. 275; p. 298.

Liquid-fuel burner. E. R. Bittner. No. 1,342,526; June 8; v. 275; p. 231.

Liquid-fuel burner. J. W. Cowell. No. 1,342,988; June 8; v. 275; p. 323.

Liquors, Recovering by-products from waste. G. M. Bradford, and J. E. Broadhead. No. 1,342,737; June 8; v. 275; p. 272.

Loading and unloading device. J. Schmiederer. No. 1,342,826; June 8; v. 275; p. 291.

Loading device. H. W. Nagel. No. 1,342,456; June 8; v. 275; p. 218.

Lock: *See*—
Automobile-lock. Nut-lock.
Billiard-cue lock. Permutation-lock.
Car-door lock.

Lock. F. Sohln. No. 1,343,064; June 8; v. 275; p. 338.

Lock mechanism. S. D. Livingston and C. E. Stahl. No. 1,343,187; June 8; v. 275; p. 362.

Lock-washer. C. A. Medbery. No. 1,342,559; June 8; v. 275; p. 238.

Locking-switch. E. O. Sessions. No. 1,342,972; June 8; v. 275; p. 319.

Locket. F. A. Kohlhepp. No. 1,342,817; June 8; v. 275; p. 289.

Locomotives, Economizer for. W. F. Kiesel, Jr. No. 1,343,144; June 8; v. 275; p. 354.

Locomotives provided with surface condensers, Device for the recuperation of available heat on steam-. C. Kohler. No. 1,342,544; June 8; v. 275; p. 235.

Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,342,573; June 8; v. 275; p. 241.

Loom-stopping mechanism. H. Lussier. No. 1,342,555; June 8; v. 275; p. 237.

Looms, Picking-motion-checking means for. C. Van De Voort. No. 1,342,726; June 8; v. 275; p. 270.

Looms, Picking-motion for. R. C. Dreher. No. 1,342,946; June 8; v. 275; p. 314.

Loose-leaf device. J. L. McMillan. No. 1,342,637; June 8; v. 275; p. 252.

Lubricating apparatus. A. Fesler. No. 1,342,671; June 8; v. 275; p. 259.

Lubricating apparatus. W. F. Somes. No. 1,342,605; June 8; v. 275; p. 246.

Lubricators, Valved coupling for. H. H. Houghton. No. 1,342,678; June 8; v. 275; p. 260.

Luminous indicating device. V. C. Thorne. No. 1,342,777; June 8; v. 275; p. 281.

Luminous indicating device. V. C. Thorne. No. 1,342,778; June 8; v. 275; p. 281.

Luminous indicating device and making same. W. A. Schlesinger. No. 1,342,767; June 8; v. 275; p. 279.

Mail-box. W. B. and V. D. Smith. No. 1,342,468; June 8; v. 275; p. 220.

Mandrel, Can-forming. J. S. Wentworth. No. 1,342,575; June 8; v. 275; p. 241.

Marine propulsion system. A. Conti. No. 1,342,797; June 8; v. 275; p. 286.

Marking device. G. J. Anderson and W. R. Smith. No. 1,343,073; June 8; v. 275; p. 340.

Mask, Face-. D. De Rosier. No. 1,342,897; June 8; v. 275; p. 305.

Mask, Face-. D. De Rosier. No. 1,342,898; June 8; v. 275; p. 305.

Mast, Extensible. B. F. Seymour. No. 1,342,828; June 8; v. 275; p. 291.

Mast, Knockdown. G. F. Gray. No. 1,342,847; June 8; v. 275; p. 295.

Match-box. E. Revega. No. 1,342,695; June 8; v. 275; p. 264.

Mausoleum construction. W. E. Hughes, and J. B. King. No. 1,342,812; June 8; v. 275; p. 288.

Measuring instrument. W. H. Field, Jr. No. 1,342,992; June 8; v. 275; p. 324.

Mechanical movement. J. Arnott. No. 1,342,887; June 8; v. 275; p. 303.

Mercerization. S. M. Jones. No. 1,343,138; June 8; v. 275; p. 353.

Mercerization. S. M. Jones. No. 1,343,139; June 8; v. 275; p. 353.

Metal bodies, Producing. G. L. Gebauer. No. 1,342,801; June 8; v. 275; p. 286.

Metal-plating machine. C. W. Eddy. No. 1,342,899; June 8; v. 275; p. 306.

Metallic structure. M. Lachman. No. 1,342,818; June 8; v. 275; p. 290.

Metallurgical process. W. E. Greenawalt. No. 1,342,804; June 8; v. 275; p. 287.

Meter: *See*—
Gas-meter.

Microtomes, Freezing attachment for. H. I. Gosline. No. 1,343,051; June 8; v. 275; p. 335.

Mill: *See*—
Chilian mill. Rolling-mill.

Mirror and backing same. C. E. Akeley. No. 1,342,578; June 8; v. 275; p. 242.

Mirror attachment, Adjustable. E. W. McCarroll. No. 1,342,854; June 8; v. 275; p. 297.

Miter-frame clamp. O. Bergstrom. No. 1,342,892; June 8; v. 275; p. 304.

Mold. H. Petersen. No. 1,342,595; June 8; v. 275; p. 245.

Molding-machine. A Diehl. No. 1,342,428; June 8; v. 275; p. 213.

Mold: *See*—
Linotype-mold.

Money-slot guard. J. Nutry. No. 1,343,151; June 8; v. 275; p. 355.

Motor: *See*—
Hot-air motor. Hydrocarbon-motor.
Hydraulic air-motor. Water-motor.

Motors, Controller for. P. H. Zimmer. No. 1,343,021; June 8; v. 275; p. 329.

Motors, Pulley attachment for. W. C. Olson. No. 1,343,152; June 8; v. 275; p. 355.

Motors, Starting device for electric. P. H. Zimmer. No. 1,343,022; June 8; v. 275; p. 330.

Mouth and lip protector, Sanitary. R. J. Moolten. No. 1,342,968; June 8; v. 275; p. 319.

Motorcycle-top. M. Chimino. No. 1,342,987; June 8; v. 275; p. 322.

Muffler. F. P. Sawders and J. G. Murray. No. 1,342,464; June 8; v. 275; p. 219.

Mule, Kicking. J. T. White. No. 1,342,882; June 8; v. 275; p. 302.

Nail-distributing machine. J. M. Benjamin. No. 1,342,415; June 8; v. 275; p. 210.

Nails, Making weatherproof. G. E. Dickson. No. 1,342,742; June 8; v. 275; p. 273.

Necktie and pin holder. T. F. Connors. No. 1,342,796; June 8; v. 275; p. 285.

Nest. G. H. Williams. No. 1,343,071; June 8; v. 275; p. 339.

Nitrogen, Fixing. C. T. Thorssell and H. L. R. Lundén. No. 1,342,834; June 8; v. 275; p. 393.

Non-skid device. W. C. McGeorge. No. 1,342,753; June 8; v. 275; p. 276.

Nozzle, Atomizing-. M. R. Wolford. No. 1,342,486; June 8; v. 275; p. 223.

Nut-blanks, Making. E. Hollings. No. 1,342,676; June 8; v. 275; p. 260.

Nut-cracking machine. F. A. G. Pape. No. 1,342,690; June 8; v. 275; p. 263.

Nut-cracking machine. F. A. G. Pape. No. 1,342,692; June 8; v. 275; p. 263.

Nut-lock. M. B. Reed. No. 1,342,508; June 8; v. 275; p. 228.

Nuts, Apparatus for removing the outer shells or husks from palm-. F. A. G. Pape. No. 1,342,693; June 8; v. 275; p. 264.

Nuts, Method and machine for cracking. F. A. G. Pape. No. 1,342,689; June 8; v. 275; p. 263.

Nuts, Method and machine for cracking. F. A. G. Pape. No. 1,342,691; June 8; v. 275; p. 263.

Oil burner, Fuel-. A. R. Anthony. No. 1,342,732; June 8; v. 275; p. 271.

Oil solution, Preparing creosote-. G. A. Cook. No. 1,342,942; June 8; v. 275; p. 314.

Oil-still. W. M. Duncan. No. 1,342,947; June 8; v. 275; p. 315.

Oils and hydrocarbon material from shale and similar bituminous rocks, Extracting. D. T. Day. No. 1,342,741; June 8; v. 275; p. 273.

Ophthalmic mountings, Construction of. O. G. Schutze. No. 1,343,090; June 8; v. 275; p. 343.

Ordnance recoil and run-out apparatus. A. T. Dawson and G. T. Buckham. No. 1,342,709; June 8; v. 275; p. 267.
Ordnance, Recoil and run-out gear for. A. T. Dawson and G. T. Buckham. No. 1,342,708; June 8; v. 275; p. 266.
Ore-flotation apparatus. R. Gahl and R. M. Haskell. No. 1,343,123; June 8; v. 275; p. 350.
Ore grinder and amalgamator, Combined. W. De Coursey. No. 1,343,041; June 8; v. 275; p. 333.
Orientator. W. G. Ruggles. No. 1,342,871; June 8; v. 275; p. 300.
Oscillations, Receiving high-frequency. E. H. Armstrong. No. 1,342,885; June 8; v. 275; p. 303.
Oven. D. J. Monihan. No. 1,342,455; June 8; v. 275; p. 218.
Paint composition. A. G. Christman and C. W. Kaepp. No. 1,342,497; June 8; v. 275; p. 225.
Pan: *See*—
Flue-pan.
Paper bottle. A. J. Selz. No. 1,342,769; June 8; v. 275; p. 279.
Paper bottle. A. J. Selz. No. 1,342,770; June 8; v. 275; p. 279.
Paper-file. M. B. Johnson. No. 1,342,504; June 8; v. 275; p. 227.
Paper-hanger machine. R. J. Banse. No. 1,343,106; June 8; v. 275; p. 346.
Paper-making machine. H. G. Van Ornum. No. 1,342,655; June 8; v. 275; p. 256.
Parasol. J. Levin. No. 1,342,451; June 8; v. 275; p. 217.
Pen, Fountain-. M. Borbeck. No. 1,342,736; June 8; v. 275; p. 272.
Pencil and igniter. L. V. Aronson. No. 1,342,838; June 8; v. 275; p. 294.
Pencil, Lead-. M. O. Borbeck. No. 1,342,416; June 8; v. 275; p. 210.
Penholders and pencils to assist in the practice of penmanship, Attachment for. G. T. Wride. No. 1,342,576; June 8; v. 275; p. 242.
Permutation-lock. J. P. Geraghty. No. 1,343,048; June 8; v. 275; p. 335.
Permutation-lock. M. Kosich. No. 1,343,145; June 8; v. 275; p. 354.
Phonograph, Multiple-record-repeating. C. M. Heck. No. 1,342,442; June 8; v. 275; p. 215.
Phonograph sound-box. E. Cassca. No. 1,342,663; June 8; v. 275; p. 257.
Photographic film. F. W. Lovejoy. No. 1,342,590; June 8; v. 275; p. 244.
Pick-handles, Guard for. C. D. Brosch. No. 1,342,495; June 8; v. 275; p. 225.
Picture films, Coloring moving-. E. S. Gillespie. No. 1,342,803; June 8; v. 275; p. 287.
Picture-frame. A. Walas. No. 1,342,477; June 8; v. 275; p. 222.
Picture machine, Motion-. C. F. Jenkins. No. 1,342,681; June 8; v. 275; p. 261.
Picture projectors, Safety device for motion-. H. D. Dreyfus. No. 1,342,429; June 8; v. 275; p. 213.
Pigment-powder for making smear-proof impressions. S. M. McMurray. No. 1,342,638; June 8; v. 275; p. 252.
Pile fabric. G. Koch. No. 1,342,589; June 8; v. 275; p. 244.
Pipe-bending mechanism. U. S. Morris. No. 1,342,564; June 8; v. 275; p. 239.
Pipe-fitting. H. Saucke. No. 1,342,825; June 8; v. 275; p. 291.
Pipe-puller. S. Robichaux and C. Paggi. No. 1,342,870; June 8; v. 275; p. 300.
Pipes, Hose pressure applicable to pressure and vacuum brake. E. Kessler. No. 1,343,084; June 8; v. 275; p. 342.
Pipes, Machine for threading. J. A. Reese. No. 1,343,158; June 8; v. 275; p. 356.
Pipes, Water-submerged air-chamber for water-. H. H. York. No. 1,342,491; June 8; v. 275; p. 224.
Planers and current-controlling system therefor, Electric feed mechanism for. S. P. Johnson. No. 1,342,915; June 8; v. 275; p. 308.
Plow. W. Wendtland, Sr. No. 1,342,836; June 8; v. 275; p. 293.
Plow, Light-tractor gang-. I. A. Weaver. No. 1,342,479; June 8; v. 275; p. 222.
Plow, Tractor rotary. S. T. Ingram. No. 1,342,815; June 8; v. 275; p. 289.
Plug, Connector-. C. D. Lake. No. 1,342,819; June 8; v. 275; p. 290.
Pocket accounting device. M. L. Buchheim. No. 1,342,707; June 8; v. 275; p. 266.
Porcelain. C. Dantsizen. No. 1,343,040; June 8; v. 275; p. 333.
Pot-lifter. V. Puchazckevski. No. 1,342,758; June 8; v. 275; p. 277.
Pouch, Medical. W. E. Eaton. No. 1,342,432; June 8; v. 275; p. 213.
Poultry-fountain and heater therefor. T. Schell. No. 1,343,010; June 8; v. 275; p. 327.
Power-presses, Automatic clutch control for. R. J. Lindgren. No. 1,342,965; June 8; v. 275; p. 318.
Power-transmission device. M. J. Saltzman. No. 1,342,649; June 8; v. 275; p. 254.
Power-transmitting mechanism. L. Melanowski. No. 1,342,687; June 8; v. 275; p. 262.
Press: *See*—
Arbor-press.
Filter-press.
Press-guard. A. F. Love and J. Nicoletti. No. 1,343,178; June 8; v. 275; p. 360.
Presses, Lifting-cylinder valve for forging-. A. P. Bark. No. 1,343,024; June 8; v. 275; p. 330.
Pressure-regulator. E. J. Schmidt. No. 1,343,160; June 8; v. 275; p. 357.
Printing machine, Fabric-. D. L. Snow. No. 1,342,722; June 8; v. 275; p. 269.
Printing-machines, Filling-in attachment for. E. Duscher. No. 1,343,170; June 8; v. 275; p. 359.
Printing-presses, Web-tension brake mechanism for. T. J. Beregh. No. 1,342,525; June 8; v. 275; p. 231.
Protective device. E. B. Wedmore. No. 1,343,018; June 8; v. 275; p. 329.
Puddling iron. T. F. Payne. No. 1,342,694; June 8; v. 275; p. 264.
Puller: *See*—
Pipe-puller.
Pulleys, Device for babbitting. C. Halverson. No. 1,343,128; June 8; v. 275; p. 351.
Pulp distributer, Rock-. W. T. Varney. No. 1,342,727; June 8; v. 275; p. 271.
Pump. D. Farrand. No. 1,342,798; June 8; v. 275; p. 286.
Pump. J. K. Putnam. No. 1,343,157; June 8; v. 275; p. 356.
Pump, Centrifugal. F. W. Krogh. No. 1,342,552; June 8; v. 275; p. 237.
Pump, Deep-well propeller-screw. F. W. Krogh. No. 1,342,551; June 8; v. 275; p. 236.
Pump, Double-acting high-pressure. E. Rodriguez. No. 1,342,719; June 8; v. 275; p. 269.
Pump, Pneumatic. G. M. Russell. No. 1,343,004; June 8; v. 275; p. 326.
Punch and countersinking-machine, Combined. W. R. Ormes. No. 1,342,865; June 8; v. 275; p. 299.
Punching machinery. G. P. Thomas. No. 1,342,878; June 8; v. 275; p. 301.
Punching machinery. G. P. Thomas. No. 1,342,879; June 8; v. 275; p. 302.
Puzzle. E. L. Bowman. No. 1,342,706; June 8; v. 275; p. 266.
Rack for supporting articles, Belt-. O. H. Frank. No. 1,342,626; June 8; v. 275; p. 250.
Radiator. C. E. Jeannotte. No. 1,342,680; June 8; v. 275; p. 261.
Radiator. F. L. Rice. No. 1,342,509; June 8; v. 275; p. 228.
Radiators, Repairing. W. M. Wright, C. Teeples, and J. J. Lamb. No. 1,342,703; June 8; v. 275; p. 266.
Radio system, Submarine. P. E. Stogoff. No. 1,343,165; June 8; v. 275; p. 358.
Rail-cutting device. F. C. Hasse. No. 1,342,502; June 8; v. 275; p. 226.
Rail-joint. M. J. Wightman. No. 1,343,070; June 8; v. 275; p. 339.
Rail-spike. J. H. Brumfield. No. 1,342,661; June 8; v. 275; p. 257.
Rails, Device for bending metallic track-. W. Louden. No. 1,342,554; June 8; v. 275; p. 237.
Railway rail, Street-. J. W. McManama. No. 1,343,001; June 8; v. 275; p. 326.
Railway signal apparatus, Foundation and housing for. J. S. Hobson. No. 1,342,962; June 8; v. 275; p. 317.
Railway-tie. C. and I. C. W. Buss. No. 1,342,420; June 8; v. 275; p. 211.
Railway-traffic-controlling apparatus. F. H. Nicholson. No. 1,342,644; June 8; v. 275; p. 253.
Railway-traffic-indicating apparatus. L. V. Lewis. No. 1,342,635; June 8; v. 275; p. 252.
Railways, Electrical point-detector for. A. E. Hudd and G. H. Wion. No. 1,343,133; June 8; v. 275; p. 352.
Range-finder, Long-base single-observer. A. Barr and W. Stroud. No. 1,343,025; June 8; v. 275; p. 330.
Razor, Electric safety-. H. Sengebusch. No. 1,343,012; June 8; v. 275; p. 328.
Record-cleaner. C. C. Prinz. No. 1,343,156; June 8; v. 275; p. 356.
Refrigerating apparatus. H. B. Joy. No. 1,342,964; June 8; v. 275; p. 318.
Regulator: *See*—
Pressure-regulator.
Resistance element. T. W. Case. No. 1,342,842; June 8; v. 275; p. 294.
Revolver and similar arms. C. P. Pinto. No. 1,342,923; June 8; v. 275; p. 310.
Road-indicating log. W. H. Castner. No. 1,342,793; June 8; v. 275; p. 285.
Roll-container. W. H. Hope. No. 1,342,909; June 8; v. 275; p. 308.
Rolling-mill. L. C. Steele. No. 1,342,608; June 8; v. 275; p. 247.
Rope-clamp. A. D. Lightner. No. 1,343,177; June 8; v. 275; p. 360.
Rotary engine. J. D. Carroll. No. 1,342,496; June 8; v. 275; p. 225.
Rotary engine. G. E. Current. No. 1,343,115; June 8; v. 275; p. 348.
Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,342,457; June 8; v. 275; p. 218.
Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,342,458; June 8; v. 275; p. 218.

Rug-rolling machine. W. H. Lutz. No. 1,342,556; June 8; v. 275; p. 237.
Sadiron, Electric. J. P. Nikonow. No. 1,342,864; June 8; v. 275; p. 299.
Safety-brake. A. Dagostcno. No. 1,343,116; June 8; v. 275; p. 348.
Safety panel-box. H. F. Krantz. No. 1,342,545; June 8; v. 275; p. 235.
Salt, Method of and apparatus for producing purified. F. G. Wheeler. No. 1,342,519; June 8; v. 275; p. 230.
Sample-taking device. S. H. Huston. No. 1,342,814; June 8; v. 275; p. 289.
Saw-filing device. J. L. Purdy. No. 1,342,462; June 8; v. 275; p. 219.
Scale, Automatic. G. A. Evans and J. E. Ellison. No. 1,342,670; June 8; v. 275; p. 259.
Scraper or leveling machine, Land. B. Sandstrom. No. 1,343,159; June 8; v. 275; p. 357.
Scraper, Tail-board. G. S. Spreyer. No. 1,343,097; June 8; v. 275; p. 344.
Screen: *See*—
Well-screen.
Seed-dropping mechanism. T. J. Ellison. No. 1,342,948; June 8; v. 275; p. 315.
Self-instruction, System and educational appliance for military. C. W. Wright. No. 1,342,520; June 8; v. 275; p. 230.
Sewing-machine. W. C. Free. No. 1,342,435; June 8; v. 275; p. 214.
Sewing-machine gage. S. Morgen. No. 1,343,149; June 8; v. 275; p. 355.
Sewing machine, Mantle-. H. Embree. No. 1,342,669; June 8; v. 275; p. 258.
Sewing machine, Shoe-. J. M. Levangie. No. 1,342,685; June 8; v. 275; p. 262.
Sewing-machine support. J. A. McCracken. No. 1,342,686; June 8; v. 275; p. 262.
Sewing-machines, Thread-controlling mechanism for. G. S. Gatchell. No. 1,342,800; June 8; v. 275; p. 286.
Sewing-machines, Work-guide for. F. T. Ströbeck. No. 1,342,775; June 8; v. 275; p. 281.
Shade and curtain bracket. F. J. Grote. No. 1,343,126; June 8; v. 275; p. 350.
Shafts, Gate-operating device for. R. H. Stevens. No. 1,342,832; June 8; v. 275; p. 292.
Shears. T. J. Fegley and G. O. Leopold. No. 1,343,174; June 8; v. 275; p. 341.
Shears, Clipper-. G. A. La Foutaine. No. 1,343,174; June 8; v. 275; p. 359.
Shears, Portable. N. P. Tangwall. No. 1,342,473; June 8; v. 275; p. 221.
Sheet-feeding mechanism. E. P. Jennings, Jr. No. 1,342,629; June 8; v. 275; p. 250.
Sheet-separating device. E. P. Jennings, Jr. No. 1,342,630; June 8; v. 275; p. 251.
Shirt. H. H. Herst. No. 1,342,906; June 8; v. 275; p. 307.
Shock-absorber. N. F. Beck. No. 1,343,027; June 8; v. 275; p. 331.
Shock-loader. W. C. Hill. No. 1,342,959; June 8; v. 275; p. 317.
Shoe-polish box. H. E. Everett. No. 1,342,537; June 8; v. 275; p. 233.
Shoe-shining machine. C. Caldes. No. 1,343,032; June 8; v. 275; p. 332.
Shoe-sole-cutting machine. T. H. Graydon. (Reissue.) No. 14,876; June 8; v. 275; p. 362.
Shoes, Making. W. C. Stewart. No. 1,342,469; June 8; v. 275; p. 220.
Sign, Electric. P. J. Kenegy. No. 1,343,141; June 8; v. 275; p. 353.
Signaling device, Sounding. J. P. Nikonow. No. 1,342,863; June 8; v. 275; p. 298.
Signals, Sound-regulator for audible-. W. Kline. No. 1,342,543; June 8; v. 275; p. 235.
Signboard. F. W. Gibson. No. 1,342,538; June 8; v. 275; p. 234.
Skate. Z. Slawinski. No. 1,342,773; June 8; v. 275; p. 281.
Skiving-machine. N. V. Dyer. No. 1,342,430; June 8; v. 275; p. 213.
Slub-catcher. F. Weber. No. 1,343,102; June 8; v. 275; p. 346.
Smoke-reducer. L. Paul. No. 1,342,867; June 8; v. 275; p. 299.
Soap-hanger. W. G. Davis. No. 1,342,844; June 8; v. 275; p. 294.
Soaps in cake or powder form, Manufacturing solid toilet and household. O. Volz. No. 1,342,783; June 8; v. 275; p. 282.
Sound-modifying means. E. Cassca. No. 1,342,662; June 8; v. 275; p. 257.
Sound-records, Device for forming grooves in. H. K. Sandell. No. 342,872; June 8; v. 275; p. 300.
Sound-reproducing machines, Repeating device for. E. Peremi. No. 1,343,087; June 8; v. 275; p. 342.
Spacing-machine. G. P. Thomas. No. 1,342,880; June 8; v. 275; p. 302.
Spark-gap. O. W. Kinley. No. 1,342,816; June 8; v. 275; p. 289.
Spark-plug, Triple-gap. J. D. Earney. No. 1,342,431; June 8; v. 275; p. 213.
Sparking plug, Air-cooled. J. Chapman. No. 1,342,421; June 8; v. 275; p. 211.
Sparking plug for ignition purposes. A. E. Heath. No. 1,343,052; June 8; v. 275; p. 336.
Speed-changing device. E. C. Head. No. 1,343,131; June 8; v. 275; p. 351.
Spray, Bath-. P. J. Fitzgerald. No. 1,342,994; June 8; v. 275; p. 324.
Sprayer, Automatic poultry-. O. E. Sundre. No. 1,342,776; June 8; v. 275; p. 281.
Spring: *See*—
Door-spring.
Spring applier and remover. G. J. Charland. No. 1,342,529; June 8; v. 275; p. 232.
Spring construction, Back-. L. A. Young. No. 1,342,522; June 8; v. 275; p. 230.
Spring-cushion. L. A. Young. No. 1,343,167; June 8; v. 275; p. 358.
Spring-motor mechanism. F. Magidson. No. 1,342,857; June 8; v. 275; p. 297.
Square, Adjustable set-. J. Westwood. No. 1,342,730; June 8; v. 275; p. 271.
Staffs, spindles, and the like, Device for inserting and adjusting bearings for. J. L. Axen. No. 1,342,840; June 8; v. 275; p. 294.
Stake-holder. C. O. Torgerson. No. 1,342,654; June 8; v. 275; p. 255.
Stamp-moistener. C. M. Pratt. No. 1,342,824; June 8; v. 275; p. 291.
Standpipe. H. E. Thompson and P. L. Bunn. No. 1,342,516; June 8; v. 275; p. 229.
Staybolt-machine. J. A. Eden, Jr. No. 1,342,534; June 8; v. 275; p. 233.
Staybolts, Machine for making. J. A. Eden, Jr. No. 1,342,536; June 8; v. 275; p. 233.
Steam-boiler. F. O. Stanley. No. 1,342,606; June 8; v. 275; p. 247.
Steel, Producing. A. Vögler. No. 1,342,701; June 8; v. 275; p. 265.
Steering device. H. A. Roan. No. 1,343,062; June 8; v. 275; p. 337.
Stepladder. H. A. Udell. No. 1,342,881; June 8; v. 275; p. 302.
Stepladder, Combined extensible or adjustable and foldable. J. Jonsson. No. 1,342,542; June 8; v. 275; p. 234.
Stereopticon. W. R. Mengel. No. 1,342,560; June 8; v. 275; p. 238.
Stereopticon. W. R. Mengel. No. 1,342,561; June 8; v. 275; p. 239.
Sterilizing apparatus. I. W. P. Buchanan. No. 1,343,108; June 8; v. 275; p. 347.
Stitching machine, Mattress-side-. F. W. H. Collett. No. 1,342,423; June 8; v. 275; p. 211.
Stitching machines, Duplex needle-plate for sole-. T. S. Graham. No. 1,342,903; June 8; v. 275; p. 306.
Stop-motion, Roller-lap. J. and C. Heywood. No. 1,342,713; June 8; v. 275; p. 268.
Stopper: *See*—
Bottle-stopper.
Stove. B. H. Dickson and J. E. Fry. No. 1,343,122; June 8; v. 275; p. 350.
Stove. P. P. Melanson. No. 1,342,921; June 8; v. 275; p. 310.
Strainer, Sugar-juice. M. E. Carter. No. 1,343,078; June 8; v. 275; p. 341.
Suitcase-handle. E. C. Horstman. No. 1,342,677; June 8; v. 275; p. 260.
Suspenders, Invisible. A. F. Young. No. 1,342,704; June 8; v. 275; p. 266.
Swatter, Insect-. A. Smith, Jr. No. 1,342,974; June 8; v. 275; p. 320.
Swimming appliance. G. W. Bechtel. No. 1,342,619; June 8; v. 275; p. 249.
Swing, Lawn-. H. C. Gallipp. No. 1,343,124; June 8; v. 275; p. 350.
Switch: *See*—
Locking-switch.
Switch. C. T. Henderson. No. 1,342,674; June 8; v. 275; p. 260.
Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,342,546; June 8; v. 275; p. 235.
Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,342,547; June 8; v. 275; p. 236.
Switch construction. L. P. Hutt. No. 1,342,999; June 8; v. 275; p. 325.
Switch-locking safety-panel. H. F. Krantz. No. 1,342,550; June 8; v. 275; p. 236.
Switch mechanism. H. F. Krantz. No. 1,342,548; June 8; v. 275; p. 236.
Switch mechanism with door-interlock. H. F. Krantz. No. 1,342,549; June 8; v. 275; p. 236.
Swivel-leg, Collapsible. W. G. Gagné. No. 1,342,951; June 8; v. 275; p. 316.
Table and ironing-board, Combined. W. W. Anderson. No. 1,342,660; June 8; v. 275; p. 256.
Table: *See*—
Extension-table.
Tank. I. C. Douglass. No. 1,343,169; June 8; v. 275; p. 359.
Tank or redoubt for military use, Self-propelled. F. W. Cunard. No. 1,342,943; June 8; v. 275; p. 314.
Tap. G. E. Miller. No. 1,342,754; June 8; v. 275; p. 276.
Telephone-exchange system. A. E. Lundell and E. H. Clark. No. 1,342,823; June 8; v. 275; p. 291.

Telephone system. L. C. Bygrave and T. M. Inman. No. 1,342,792; June 8; v. 275; p. 284.
Telephone system. C. L. Goodrum. No. 1,342,902; June 8; v. 275; p. 306.
Telephone-transmitter. W. and J. Birrell. No. 1,342,581; June 8; v. 275; p. 243.
Telephone-transmitter. W. and J. Birrell. No. 1,342,582; June 8; v. 275; p. 243.
Telescopes, Illuminating attachment for. E. L. Beck. No. 1,343,074; June 8; v. 275; p. 340.
Threshing-machine. J. E. Gross. No. 1,342,806; June 8; v. 275; p. 287.
Threshing-machines, Feed mechanism for. J. N. Shanks. No. 1,342,574; June 8; v. 275; p. 241.
Tie: *See*—
Railway-tie.
Tiering-machine. W. E. Boehck. No. 1,342,982; June 8; v. 275; p. 321.
Tire. A. J. Meyer. No. 1,342,562; June 8; v. 275; p. 239.
Tire-casings, Spreader for. A. and A. A. Mieloch. No. 1,342,565; June 8; v. 275; p. 239.
Tire, Cushion-. L. W. Ostmann. No. 1,343,154; June 8; v. 275; p. 355.
Tire-heater. J. J. Fahrney. No. 1,343,045; June 8; v. 275; p. 334.
Tire, Resilient. L. D. Hughes. No. 1,343,172; June 8; v. 275; p. 359.
Tire, Resilient. F. Perdala. No. 1,343,155; June 8; v. 275; p. 356.
Tires, Display-stand for. C. W. Yelm. No. 1,342,731; June 8; v. 275; p. 271.
Tires or interliners, Apparatus for manufacturing. W. F. Ray. (Reissue.) No. 14,879; June 8; v. 275; p. 363.
Toaster. T. Harrington. No. 1,343,129; June 8; v. 275; p. 351.
Tomato-masher. E. Spirito. No. 1,342,877; June 8; v. 275; p. 301.
Tongs. A. H. Lee. No. 1,343,057; June 8; v. 275; p. 336.
Tool, Brickmason's. D. E. Hale and J. E. McCormick. No. 1,342,439; June 8; v. 275; p. 215.
Tool, Cap-removing. C. L. Johnson. No. 1,342,848; June 8; v. 275; p. 295.
Tool, Fluid-operated. C. A. Hultquist. No. 1,342,540; June 8; v. 275; p. 234.
Tool-holder. M. J. Breen. No. 1,342,983; June 8; v. 275; p. 322.
Tool-holder. M. W. Schillberg. No. 1,342,600; June 8; v. 275; p. 246.
Tool, Insulated. J. A. Weaver. No. 1,343,101; June 8; v. 275; p. 345.
Tool, Well-drilling. W. A. McCausland. No. 1,342,855; June 8; v. 275; p. 297.
Toothbrush, Protected. K. Yanagihara. No. 1,342 521; June 8; v. 275; p. 230.
Toy. F. L. Dorsk. No. 1,342,945; June 8; v. 275; p. 314.
Toy aeroplane. B. H. Harris. No. 1,342,998; June 8; v. 275; p. 325.
Toy device. I. Zion. No. 1,342,577; June 8; v. 275; p. 242.
Toy gun. J. A. Talbot. No. 1,342,700; June 8; v. 275; p. 265.
Toy gun, Electrical. T. Hallinan. No. 1,343,127; June 8; v. 275; p. 351.
Toy swing-chair and sulky. F. Karschitz. No. 1,343,000; June 8; v. 275; p. 325.
Traction-engine. S. L. Timmons. No. 1,342,779; June 8; v. 275; p. 282.
Tractor. C. J. Allen. No. 1,342,523; June 8; v. 275; p. 231.
Tractor. G. A. Armington. No. 1,342,412; June 8; v. 275; p. 209.
Tractor. S. G. Baits and S. I. Fekete. No. 1,342,934; June 8; v. 275; p. 312.
Tractor. W. L. Bodman. No. 1,342,791; June 8; v. 275; p. 284.
Tractor. J. W. Diederich. No. 1,342,427; June 8; v. 275; p. 212.
Tractor. A. E. Schaaf and S. W. Mills. No. 1,342,764; June 8; v. 275; p. 278.
Tractor. A. E. Schaaf and S. W. Mills. No. 1,342,765; June 8; v. 275; p. 279.
Tractor-wheel. P. R. Zieche. No. 1,342,493; June 8; v. 275; p. 225.
Trailers to tractors, Device for coupling. F. T. Falco. No. 1,342,949; June 8; v. 275; p. 315.
Train-controlling apparatus. D. H. Schweyer. No. 1,342,873; June 8; v. 275; p. 300.
Train-controlling system. B. A. Prince and E. I. La Count. No. 1,342,572; June 8; v. 275; p. 241.
Transformer, Rotary. T. F. Barton. No. 1,343,026; June 8; v. 275; p. 330.
Transmission mechanism. J. J. Duffy. No. 1,342,587; June 8; v. 275; p. 244.
Transportation system. J. Conlon. No. 1,342,531; June 8; v. 275; p. 232.
Trap. F. H. Crago. No. 1,342,425; June 8; v. 275; p. 212.
Trash-turner. J. Miller. No. 1,343,059; June 8; v. 275; p. 337.
Tray, Ash-. J. P. Griffin. No. 1,342,805; June 8; v. 275; p. 287.
Tray-piling machine. K. Sanwo. No. 1,342,463; June 8; v. 275; p. 219.
Tray-turner. A. Soderberg. No. 1,342,774; June 8; v. 275; p. 280.
Trenching-machine. J. J. Hammen. No. 1,343,081; June 8; v. 275; p. 341.
Trolley system. J. Basil and F. Girardi. No. 1,342,579; June 8; v. 275; p. 242.
Trousers-supporting device. J. Sturm. No. 1,342,930; June 8; v. 275; p. 311.
Truck-bodies, Combined locking and lifting device for. B. J. Synstelien. No. 1,342,472; June 8; v. 275; p. 221.
Truck, Hand-. J. F. Callahan. No. 1,342,585; June 8; v. 275; p. 243.
Truck, Loading and unloading. W. T. Hollaway. No. 1,342,628; June 8; v. 275; p. 250.
Truck, Motor-. C. J. McCutchen. No. 1,342,752; June 8; v. 275; p. 276.
Trucks, Axle-housing and fifth-wheel construction for motor-. W. S. Morton. No. 1,342,861; June 8; v. 275; p. 298.
Tub. T. Harrington. No. 1,342,807; June 8; v. 275; p. 287.
Tube and product thereof, Splicing-. C. T. Hampton. No. 1,342,441; June 8; v. 275; p. 215.
Turbine. W. S. Elliott. No. 1,342,845; June 8; v. 275; p. 295.
Twist-drill machine. R. W. and J. E. Hudson. No. 1,342,963; June 8; v. 275; p. 318.
Typewriting-machine. H. E. Bridgwater. No. 1,342,941; June 8; v. 275; p. 314.
Typewriting-machine. G. A. Selb. No. 1,342,466; June 8; v. 275; p. 220.
Typewriting-machine. A. W. Smith. No. 1,342,513; June 8; v. 275; p. 229.
Typewriting-machine. O. Woodward. No. 1,342,489; June 8; v. 275; p. 224.
Typewriting-machine. O. Woodward. No. 1,342,490; June 8; v. 275; p. 224.
Typewriters, Carriage-return mechanism for. F. C. Breuckman and G. T. Arnold. No. 1,342,940; June 8; v. 275; p. 313.
Typographical composing and casting machines, Magazine of. J. E. Billington. No. 1,342,980; June 8; v. 275; p. 321.
Undergarment, Lady's combination-. A. K. Czechowicz. No. 1,343,038; June 8; v. 275; p. 333.
Valve. H. J. Gebhardt. No. 1,342,955; June 8; v. 275; p. 316.
Valve, Balanced piston-. G. W. Baker and G. Williams. No. 1,343,105; June 8; v. 275; p. 346.
Valve, Brine-. H. Ackroyd. No. 1,343,072; June 8; v. 275; p. 340.
Valve device. J. McGillivray. No. 1,342,900; June 8; v. 275; p. 306.
Valve, Gas-. G. D. Bradshaw. No. 1,342,620; June 8; v. 275; p. 249.
Valve-handle. W. S. Neil. No. 1,343,086; June 8; v. 275; p. 342.
Valve lifter, Auto-. E. E. Harris. No. 1,343,130; June 8; v. 275; p. 351.
Valve, Magnetic. F. Moreton. No. 1,342,641; June 8; v. 275; p. 253.
Valve mechanism. F. Gruber. No. 1,342,438; June 8; v. 275; p. 214.
Valve mechanism, Float-. F. L. Sessions. No. 1,342,874; June 8; v. 275; p. 301.
Valve, Pressure and vacuum relief. A. W. Cash. No. 1,342,985; June 8; v. 275; p. 322.
Valve, Puppet-. L. W. Brenner. No. 1,342,419; June 8; v. 275; p. 211.
Valve, Test-. G. Ernst. No. 1,343,043; June 8; v. 275; p. 334.
Valve-truing device. O. B. Jones and D. W. Spence. No. 1,342,632; June 8; v. 275; p. 251.
Valves, Safety device for relief-. J. M. Dougherty and H. C. Tabler. No. 1,342,667; June 8; v. 275; p. 258.
Vaporizer and holder. A. G. Kaufman. No. 1,342,446; June 8; v. 275; p. 216.
Variable-resistance device. J. Parkin, Jr. No. 1,342,594; June 8; v. 275; p. 245.
Vault-plate. C. M. Johnson. No. 1,342,913; June 8; v. 275; p. 308.
Vehicle-frame brace. M. E. Crow. No. 1,342,623; June 8; v. 275; p. 249.
Vehicle, Motor-. L. K. Snell. No. 1,342,831; June 8; v. 275; p. 292.
Vehicle, Self-propelled. J. O. Hamel. No. 1,342,440; June 8; v. 275; p. 215.
Vehicle, Traction-. O. D. Richardson. No. 1,342,761; June 8; v. 275; p. 278.
Vehicle-wheel. R. S. Bryant. No. 1,342,622; June 8; v. 275; p. 249.
Vehicles, Construction of bodies of motor and other. F. M. Charles. No. 1,342,664; June 8; v. 275; p. 257.
Vehicles, Skid-chain fasteners for motor-. L. D. Johnson and E. J. Biedenkopf. No. 1,342,631; June 8; v. 275; p. 251.
Vehicles, Towing connection for. R. F. McNamara. No. 1,342,507; June 8; v. 275; p. 227.
Vehicles, Washbasin for motor-propelled. W. I. Clifford. No. 1,342,843; June 8; v. 275; p. 294.
Velocipede. J. Scanlan. No. 1,342,720; June 8; v. 275; p. 269.
Vending machine, Newspaper-. W. H. Miles. No. 1,342,858; June 8; v. 275; p. 297.

Ventilator: *See*—
Closet-ventilator.
Ventilators or heaters, Air-regulator for. P. Sherwen. No. 1,343,162; June 8; v. 275; p. 357.
Vessels, Accommodation-ladder for marine. E. J. Sims. No. 1,343,094; June 8; v. 275; p. 344.
Vessels, Bottom for liquid-heating. F. C. Avery and R. E. Thompson. No. 1,342,888; June 8; v. 275; p. 303.
Volatile and fermentable matter from liquids, Apparatus for recovering. A. Schaefer. No. 1,342,721; June 8; v. 275; p. 269.
Voting-machine registers, Operating device for. C. H. Veeder. No. 1,342,476; June 8; v. 275; p. 222.
Vulcanizer. S. Kenchen. No. 1,342,916; June 8; v. 275; p. 309.
Wagon end-gate. E. E. Anderson. No. 1,342,705; June 8; v. 275; p. 266.
Waistband. B. Clark. No. 1,343,035; June 8; v. 275; p. 332.
Wall-cleaning machine. C. S. Woods. No. 1,342,488; June 8; v. 275; p. 224.
Warp-clamp. J. B. Sinderson. No. 1,342,876; June 8; v. 275; p. 301.
Warps, Machine for operating upon. H. D. Colman and B. A. Peterson and E. D. Parker. No. 1,342,896; June 8; v. 275; p. 305.
Washer: *See*—
Can-washer. Lock-washer.
Washing-machine, Hydraulic. B. Baráth. No. 1,343,107; June 8; v. 275; p. 346.
Washing-machine. D. A. Dwyer. No. 1,342,624; June 8; v. 275; p. 250.
Water circulation, Temperature-indicator for engine-. G. P. Pitkin. No. 1,343,088; June 8; v. 275; p. 343.
Water-collecting system. D. P. Howell. No. 1,342,679; June 8; v. 275; p. 261.
Water-distributer. A. H. Barthez. No. 1,342,734; June 8; v. 275; p. 272.
Water-motor. K. M. Anderson. No. 1,342,613; June 8; v. 275; p. 248.
Welding, Metal. E. C. Lipps. No. 1,342,717; June 8; v. 275; p. 268.
Welding, Resistance-. J. H. Gravell. No. 1,342,957; June 8; v. 275; p. 316.
Well-cleaner. S. F. Bashara. No. 1,342,618; June 8; v. 275; p. 248.
Well derricks, Spool for oil-. N. L. Sybert. No. 1,342,653; June 8; v. 275; p. 255.
Well-plugging apparatus. A. T. Ruthven. No. 1,342,927; June 8; v. 275; p. 311.
Well-screen. W. H. Cater. No. 1,342,986; June 8; v. 275; p. 322.
Wells, Method and apparatus for shutting water out of oil-. D. G. Vedder. No. 1,342,780; June 8; v. 275; p. 282.
Wells, Screening device for oil-. S. H. Huston. No. 1,342,813; June 8; v. 275; p. 289.
Wells, Shutting a deleterious fluid out of value-producing. D. G. Vedder. No. 1,342,781; June 8; v. 275; p. 282.
Wheel: *See*—
Cushion-wheel. Vehicle-wheel.
Tractor-wheel.
Wheel. J. C. Welch. No. 1,342,784; June 8; v. 275; p. 283.
Wheels of automobiles from their axles, Removing the rear. B. H. Holdsworth. No. 1,342,907; June 8; v. 275; p. 307.
Wind-shields, End extension to automobile. W. J. Chase. No. 1,342,794; June 8; v. 275; p. 285.
Window. C. Albonesi. No. 1,342,411; June 8; v. 275; p. 209.
Window wicket or closure. J. Hecht. No. 1,342,673; June 8; v. 275; p. 259.
Wire, Reel for holding barbed or other. T. L. Thompson. No. 1,343,067; June 8; v. 275; p. 338.
Wire-stretcher. G. R. Farris. No. 1,342,625; June 8; v. 275; p. 250.
Wire with fibrous material, Machine for covering. J. Booth. No. 1,343,076; June 8; v. 275; p. 340.
Wrench. A. McDowell. No. 1,342,856; June 8; v. 275; p. 297.
Wrench. F. M. Murray. No. 1,342,643; June 8; v. 275; p. 253.
Yoke, Coupling. H. L. Spence. No. 1,342,697; June 8; v. 275; p. 265.

ALPHABETICAL LIST OF DESIGNS.

Bedstead. B. Lipshitz. No. 55,426; June 8; v. 275; p. 367.
Bracelet, Clasp for a ribbon-. R. King. Nos. 55,423–4; June 8; v. 275; p. 367.
Bubble-blower. C. Bogert. No. 55,409; June 8; v. 275; p. 365.
Cabinet, Phonograph-. W. C. Beckwith. No. 55,405; June 8; v. 275; p. 364.
Cabinet, Phonograph-. M. Davis. No. 55,415; June 8; v. 275; p. 366.
Casket container, Burial-. C. Bilott. No. 55,407; June 8; v. 275; p. 364.
Cylinder-cock casing. I. A. Seiders. No. 55,436; June 8; v. 275; p. 369.
Doll. A. E. Malone. No. 55,428; June 8; v. 275; p. 368.
Electric-transformer case. S. M. Harvey and S. E. Lorenz. No. 55,422; June 8; v. 275; p. 367.
Game-board. E. S. Aitken. No. 55,404; June 8; v. 275; p. 364.
Game-board. J. Ecker and E. Goldberg. No. 55,418; June 8; v. 275; p. 366.
Humidor. D. M. Wygold. No. 55,446; June 8; v. 275; p. 371.
Lamp, Electric. A. J. D. Ohm. Nos. 55,430–2; June 8; v. 275; p. 368.
Nail-buffer. N. E. Berry. No. 55,406; June 8; v. 275; p. 364.
Pin. J. B. Brady. No. 55,410; June 8; v. 275; p. 365.
Pipe, Smoking-. E. Strom. No. 55,443; June 8; v. 275; p. 371.
Radiator front, Automobile-. J. F. Raleigh. No. 55,435; June 8; v. 275; p. 369.
Shoe plate, Rubber-. D. H. Eley and T. H. Ryan. No. 55,419; June 8; v. 275; p. 366.
Sign, Advertising-. J. W. Guinn. No. 55,421; June 8; v. 275; p. 367.
Souvenir. D. Bogen. No. 55,408; June 8; v. 275; p. 364.
Tire. H. T. Gauss. No. 55,420; June 8; v. 275; p. 366.
Tire, Elastic vehicle-. J. W. Denmead. No. 55,416; June 8; v. 275; p. 366.
Tire, Elastic vehicle-. F. E. Shannon. No. 55,437; June 8; v. 275; p. 370.
Tire-tread. A. L. Breitenstein. No. 55,411; June 8; v. 275; p. 365.
Tire-tread. W. Kline. No. 55,425; June 8; v. 275; p. 367.
Tire, Vehicle-. D. F. Crow. No. 55,414; June 8; v. 275; p. 365.
Toy. W. F. Maas. No. 55,427; June 8; v. 275; p. 368.
Toy ball. F. A. Cigol. No. 55,413; June 8; v. 275; p. 365.
Toy jingle-hoop. B. B. Brown. No. 55,412; June 8; v. 275; p. 365.
Toy rocker. L. F. and O. G. Noirot. No. 55,429; June 8; v. 275; p. 368.
Toy vehicle. W. R. Peoples. Nos. 55,433–4; June 8; v. 275; p. 369.
Toy vehicle. J. C. Welch. No. 55,445; June 8; v. 275; p. 371.
Vehicle, Juvenile. J. H. Dixon. No. 55,417; June 8; v. 275; p. 366.
Vehicle, Motor-. P. M. Smith. Nos. 55,440–2; June 8; v. 275; p. 370.
Window-frames, Bolt for. W. W. Sleight. No. 55,438; June 8; v. 275; p. 370.
Window-frames, Holdfast for. W. W. Sleight. No. 55,439; June 8; v. 275; p. 370.
Windshield, Automobile-. W. W. Walton. No. 55,444; June 8; v. 275; p. 371.

ALPHABETICAL LIST OF TRADE-MARKS.

Aeroplanes and parts thereof. Rubay Company. No. 132,046; June 8; v. 275; p. 416.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 132,063; June 8; v. 275; p. 416.
Asphalts, Blown-oil. C. Muller. No. 132,023; June 8; v. 275; p. 415.
Automobiles. Leach-Biltwell Motor Company. No. 132,010; June 8; v. 275; p. 414.
Automobiles and automobile trucks. Hebb Motors Company. No. 131,995; June 8; v. 275; p. 414.
Belts for personal wear. Marathon Tire & Rubber Co. No. 132,019; June 8; v. 275; p. 415.
Beverage, Malt. W. Horlick, Jr. No. 131,998; June 8; v. 275; p. 414.
Bicycles. Great Western Manufacturing Co. No. 131,987; June 8; v. 275; p. 414.
Bicycles. Westfield Manufacturing Company. No. 132,070; June 8; v. 275; p. 416.
Brick, Fire-. Pyro Products Company. No. 132,039; June 8; v. 275; p. 415.
Brick, Refractory. Quigley Furnace Specialties Co. No. 132,040; June 8; v. 275; p. 415.
Burners, kerosene gas generators and burners, and furnaces, Kerosene-. Champion Kerosene-Burner Company. No. 131,969; June 8; v. 275; p. 413.

Butter, Crenshaw Bros. Produce Co. No. 131,971; June 8; v. 275; p. 413.
Buttons, Device for use in protecting material to which they are attached while cleaning. J. L. H. Blackwood. No. 131,962; June 8; v. 275; p. 413.
Buttons, Pearl. Paragon Button Corporation. No. 132,031; June 8; v. 275; p. 415.
Candy. D. F. Magee. No. 132,018; June 8; v. 275; p. 415.
Candy. Guth Chocolate Company. No. 131,990; June 8; v. 275; p. 414.
Candy. Venus Chocolate Company. No. 132,064; June 8; v. 275; p. 416.
Candies and nuts. Treisman Bro's & Diversi Co. No. 132,057; June 8; v. 275; p. 416.
Candies, ice-cream, and pastry. Tiffin Products. No. 132,056; June 8; v. 275; p. 416.
Canned fruits and vegetables. Fairfield Canning Company. No. 131,981; June 8; v. 275; p. 414.
Canned vegetables. Green Mountain Packing Company. No. 131,988; June 8; v. 275; p. 414.
Canned vegetables. Wabash Valley Packing Co. No. 132,065; June 8; v. 275; p. 416.
Cheese. Roethlisberger & Co. No. 132,044; June 8; v. 275; p. 416.
Chocolate. Ideal Cocoa & Chocolate Co. No. 131,999; June 8; v. 275; p. 414.
Cleaner for white glacé kid-leather. C. A. Zoes. No. 132,074; June 8; v. 275; p. 417.
Cleaning-paste. W. B. Smythe. No. 132,050; June 8; v. 275; p. 416.
Cleaning, polishing, preserving, and finishing certain named surfaces and articles, Polish for. Everbright Manufacturing Company. No. 131,980; June 8; v. 275; p. 414.
Cleansing preparation for rugs, silk, &c. M. Bedrosian. No. 131,960; June 8; v. 275; p. 413.
Closet-seats and flushing-tanks. William Heap & Sons. No. 131,994; June 8; v. 275; p. 414.
Coal. Mitchell & Dillon Coal Co. No. 132,022; June 8; v. 275; p. 415.
Coal. Slogo Coal Company. No. 132,049; June 8; v. 275; p. 416.
Confection, known as mints. L. P. Larson, Jr., Co. No. 132,009; June 8; v. 275; p. 414.
Confectionery, Certain named. Nelson-Dashiell Company. No. 132,028; June 8; v. 275; p. 415.
Confectionery—viz, chocolates. All-Qual-Sweets Co. No. 131,952; June 8; v. 275; p. 413.
Cork disks and washers for sealing bottles, jars, &c. New Process Cork Company. No. 132,029; June 8; v. 275; p. 415.
Curtain-windows for vehicle and similar curtains. A. S. Campbell Company. No. 131,965; June 8; v. 275; p. 413.
Detergent and scouring powder. Western Chemical Company. No. 132,069; June 8; v. 275; p. 416.
Egg-powder and egg-substitute powder. Eg-Ste-Tut Mfg. Co. No. 131,979; June 8; v. 275; p. 414.
Fasteners, Snap-. Carr Fastener Company. Nos. 131,966–7; June 8; v. 275; p. 413.
Fasteners, Snap-. Samstag & Hilder Bros. No. 132,047; June 8; v. 275; p. 416.
Feed. The McMillen Co. No. 132,016; June 8; v. 275; p. 415.
Feed, Poultry and stock. J. Cushing Co. No. 131,972; June 8; v. 275; p. 413.
Fish, Salt. J. K. Dennis. Nos. 131,975–6; June 8; v. 275; pp. 413–4.
Flour and cornmeal, Wheat-. Bay City Milling Company. No. 131,959; June 8; v. 275; p. 413.
Flour, Self-rising wheat-. Bernet, Craft & Kauffman Milling Co. No. 131,961; June 8; v. 275; p. 413.
Flour, Self-rising wheat-. The Acme Mills. No. 131,949; June 8; v. 275; p. 413.
Flour, Wheat-. Holmes and Barnes. No. 132,996; June 8; v. 275; p. 414.
Flour, Wheat-. International Milling Company. No. 132,001; June 8; v. 275; p. 414.
Flying-machines, balloons, &c. Handley Page Limited. No. 131,993; June 8; v. 275; p. 414.
Foods, Certain named. G. F. Jefferson. No. 132,003; June 8; v. 275; p. 414.
Foods, Certain named. Libby, McNeill & Libby. Nos. 132,012–3; June 8; v. 275; p. 415.
Foods, Certain named. Waples-Platter Grocer Company. No. 132,067; June 8; v. 275; p. 416.
Fruits, canned vegetables, &c., Canned and preserved. Griggs, Cooper & Company. No. 131,989; June 8; v. 275; p. 414.
Fruits, jellies, jams, &c., Preserved and canned. Gordon & Dilworth. Nos. 131,984–5; June 8; v. 275; p. 414.
Fuel-burners for solidified alcohol. Basic Products Corporation. No. 131,958; June 8; v. 275; p. 413.
Furnaces. Rock Island Stove Company. No. 132,043; June 8; v. 275; p. 416.
Glass. Corning Glass Works. No. 131,970; June 8; v. 275; p. 413.
Glove-binding. Star Binding & Trimming Co. No. 132,052; June 8; v. 275; p. 416.
Grinding and polishing wheels and blocks. Abradant Products Company. No. 131,948; June 8; v. 275; p. 413.
Hairpins, safety and toilet pins, snap-fasteners, hook-and-eye tape. De Long Hook and Eye Company, The. No. 131,974; June 8; v. 275; p. 413.
Hat-shields. L. W. Hackney. No. 131,992; June 8; v. 275; p. 414.
Headlight lenses, Automobile-. Holoplane Glass Co. No. 131,997; June 8; v. 275; p. 414.
Ice-cream cones. Royal Cone Co. No. 132,045; June 8; v. 275; p. 416.
Leather. Kistler, Lesh & Company. Nos. 132,006–8; June 8; v. 275; p. 414.
Leather. Otto Meyer & Co. No. 132,020; June 8; v. 275; p. 415.
Leather-dressing. J. H. Yocum. No. 132,073; June 8; v. 275; p. 417.
Leather, finished and partly finished, and particularly picker-leather. The Ulmer Leather Company. No. 132,060; June 8; v. 275; p. 416.
Leather, Sole-. Ashland Leather Company. No. 131,955; June 8; v. 275; p. 413.
Lighting and ventilating devices. The Adams & Westlake Company. No. 131,956; June 8; v. 275; p. 413.
Lime, White-marble. O. King. No. 132,005; June 8; v. 275; p. 414.
Luminous pendant. Pioneer Corporation. No. 132,033; June 8; v. 275; p. 415.
Lunches, Prepared. S. G. Leoffler, Jr. No. 132,011; June 8; v. 275; p. 415.
Macaroni sauce. Workman Packing Company. No. 132,071; June 8; v. 275; p. 416.
Magnesium-oxychlorid cement and certain products made therefrom. Macanite Company of America. No. 132,017; June 8; v. 275; p. 415.
Metal-polish. C. M. Kimball Company. No. 132,004; June 8; v. 275; p. 414.
Millwork, fiber and gypsum wall-boards, &c. Sterling Lumber Co. No. 132,054; June 8; v. 275; p. 416.
Motor-vehicles, &c., Drive units and pliable drives for. S. W. Prussian. No. 132,038; June 8; v. 275; p. 415.
Newspaper, Old. Atterbury Bros, Inc. No. 131,956; June 8; v. 275; p. 413.
Nuts and dried fruits. Habicht and Company. No. 131,991; June 8; v. 275; p. 414.
Oil, Olive-. Gamanos & Booskos. No. 131,982; June 8; v. 275; p. 414.
Oil, Olive-. Musher & Company. No. 132,024; June 8; v. 275; p. 415.
Oleomargarin. The Great Atlantic and Pacific Tea Company. No. 131,986; June 8; v. 275; p. 414.
Overcoating goods, Woolen. Worumbo Manufacturing Company. No. 132,072; June 8; v. 275; p. 417.
Pavements and paving material. Warren Brothers Company. No. 132,068; June 8; v. 275; p. 416.
Plumbers' supplies of earthenware. The Trenton Potteries Company. No. 132,058; June 8; v. 275; p. 416.
Pyroxylin compound. George Borgfeldt & Co. No. 131,963; June 8; v. 275; p. 413.
Radiators for internal-combustion engines. United States Cartridge Company. Nos. 132,061–2; June 8; v. 275; p. 416.
Ration, Dairy. The Ubiko Milling Company. No. 132,059; June 8; v. 275; p. 416.
Reflectors, Glass. National X Ray Reflector Co. No. 132,027; June 8; v. 275; p. 415.
Rice. William S. Scull Company. No. 132,048; June 8; v. 275; p. 416.
Roofing, Artificially-prepared. Pittsburgh Plate Glass Company. No. 132,035; June 8; v. 275; p. 415.
Roofing, wall-board, and building-papers, Composition. Standard Paint Company. No. 132,051; June 8; v. 275; p. 416.
Sanitary aerating and protecting device. R. I. Gill. No. 131,983; June 8; v. 275; p. 414.
Saponaceous preparation for the complexion. C. W. Albright. No. 131,951; June 8; v. 275; p. 413.
Seeds, Oat-. Pittman & Harrison Company. No. 132,034; June 8; v. 275; p. 415.
Shades and reflectors for lighting-fixtures, Metallic. L. Plaut & Co. No. 132,036; June 8; v. 275; p. 415.
Shoe-laces. Dodson, Fisher, Brockmann Co. No. 131,977; June 8; v. 275; p. 414.
Silk piece goods. J. A. Migel, Inc. No. 132,021; June 8; v. 275; p. 415.
Snap-fasteners. Penn Rivet Corporation. No. 132,032; June 8; v. 275; p. 415.
Soap. National Sulfern Soap Co. No. 132,026; June 8; v. 275; p. 415.
Soap. Procter and Gamble Company. No. 132,037; June 8; v. 275; p. 415.
Soaps, shaving preparations. Remilier Company. No. 132,041; June 8; v. 275; p. 416.
Soaps, Toilet. Frederick Stearns & Co. No. 132,053; June 8; v. 275; p. 416.
Steel, Structural. McClintic-Marshall Products Company. No. 132,014; June 8; v. 275; p. 415.
Steering device for motor-vehicles, Automatic. T. F. Robinson. No. 132,042; June 8; v. 275; p. 416.
Stoves, Coal-. Delaware Electric & Supply Co. No. 131,973; June 8; v. 275; p. 413.
Stoves, ovens, plates, Gas. The L. A. Athoff Mfg. Co. No. 131,954; June 8; v. 275; p. 413.
Suspenders and dress-shields. McDonald Bros. Co. No. 132,015; June 8; v. 275; p. 415.

Suspenders, garters, and belts. Otis Suspender Company. No. 132,030; June 8; v. 275; p. 415.
Syrup and sugar and food-flavoring compound, Compound table-. F. N. Argo. No. 131,954; June 8; v. 275; p. 413.
Syrup, Food-. F. G. Stewart. No. 132,055; June 8; v. 275; p. 416.
Teas. Carter, Macy & Co. No. 131,968; June 8; v. 275; p. 413.
Tires, Outer casings and inner tubes for pneumatic automobile-. Victor Rubber Company. No. 132,075; June 8; v. 275; p. 417.
Trucks and accessories, Electric. W. C. Brinton. No. 131,964; June 8; v. 275; p. 413.
Trucks, Motor-. H. S. Jarvis. No. 132,002; June 8; v. 275; p. 414.
Varnish-paint. The Ault & Wiborg Co. No. 131,957; June 8; v. 275; p. 413.
Vulcanized fiber. National Fibre and Insulation Company. No. 132,025; June 8; v. 275; p. 415.
Wheels, Felt polishing-. Eastern Felt Company. No. 131,978; June 8; v. 275; p. 414.
Wood-pulp boards and blocks. International Insulation Company. No. 132,000; June 8; v. 275; p. 414.
Yarns, Worsted fingering-. Walker Yarn Company. No. 132,066; June 8; v. 275; p. 416.

ALPHABETICAL LIST OF LABELS.

"Pargo Brand Sweet Corn." (For Cans Containing Sweet Corn.) C. A. Windholz. No. 21,873; June 8; v. 275; p. 418.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Abrasives in comminuted form. The Exolon Company. Nos. 131,521–2; June 8; v. 275; p. 411.
Alloys, Base-metal. H. C. Kirk. No. 127,132; June 8; v. 275; p. 391.
Apparel, Women's, misses', and children's outer wearing-. John Wanamaker, New York. No. 119,056; June 8; v. 275; p. 378.
Apples, Fresh. Plummer and Edwins. No. 129,744; June 8; v. 275; p. 401.
Aprons, Women's. G. B. Hovey. No. 128,927; June 8; v. 275; p. 398.
Asbestos, calking-cotton, chamois, &c. Chelsea Engineering Sales Corporation. No. 130,207; June 8; v. 275; p. 405.
Automobile, pianos, and furniture polishing liquid. A. H. Gammon. No. 124,716; June 8; v. 275; p. 385.
Automobiles. Duty Motor Co. No. 129,831; June 8; v. 275; p. 402.
Babbitt metal and antifriction metals. P. R. Brown. No. 123,839; June 8; v. 275; p. 383.
Bacon, Breakfast-. John Morrell & Co. No. 127,387; June 8; v. 275; p. 391.
Bacon, ham, sausage. Midland Packing Company. No. 129,399; June 8; v. 275; p. 399.
Bags, suitcases, purses, &c., Shopping, &c. Tiffany & Company. No. 128,224; June 8; v. 275; p. 395.
Balls, Bowling and roque. American Hard Rubber Company. No. 127,849; June 8; v. 275; p. 394.
Batteries, Electric storage. Perfection Storage Battery Co. No. 128,899; June 8; v. 275; p. 398.
Beams and channels, Steel. American Iron Products Co. No. 130,739; June 8; v. 275; p. 408.
Beverage and flavorings and syrup for making same, Non-alcoholic. C. Ghiglino. No. 131,264; June 8; v. 275; p. 410.
Beverages and syrups for making same, Non-alcoholic. J. D. Hall. No. 130,672; June 8; v. 275; p. 408.
Beverages and syrups for making same, Non-alcoholic. Schoenhofen Company. No. 129,189; June 8; v. 275; p. 399.
Beverages and syrups for making same, Non-alcoholic. West End Brewing Co. Nos. 129,993–5; June 8; v. 275; p. 403.
Beverage made of malt and cereals. Adam Scheidt Beverage Company. No. 124,538; June 8; v. 275; p. 384.
Beverage made of malt and cereals. Adam Scheidt Beverage Company. No. 126,823; June 8; v. 275; p. 390.
Beverage, Non-alcoholic, non-cereal. Monarch Manufacturing Company. No. 130,607; June 8; v. 275; p. 407.
Beverage, Non-alcoholic. P. Corning. No. 120,044; June 8; v. 275; p. 379.
Beverage, Non-intoxicating. Ph. Zang Brewing Company. 129,740; June 8; v. 275; p. 401.
Beverage of malt nature, Non-alcoholic. The Crown Brewing Company. No. 117,006; June 8; v. 275; p. 376.
Beverage to be sold as a soft drink, Maltless. Keen Kola Mfg. Co. No. 128,781; June 8; v. 275; p. 397.
Beverages, Non-Alcoholic. S. M. Schmidt. No. 125,863; June 8; v. 275; p. 387.
Beverages, Non-alcoholic. The Efanbee Company. No. 128,427; June 8; v. 275; p. 396.
Blankets, Textile. The Fair. No. 126,570; June 8; v. 275; p. 389.
Bookcases, house-desks, medicine-cabinets. Canton Furniture Manufacturing Co. No. 129,044; June 8; v. 275; p. 398.
Boot-tops and spats. Sar-Ann Manufacturing Co. No. 124,154; June 8; v. 275; p. 384.
Bottle-caps. U. S. Brewers & Bottlers Supply Export Co. No. 129,519; June 8; v. 275; p. 400.
Braids. The Braided Fabric Co. No. 128,341; June 8; v. 275; p. 395.
Bread. United Baking Co. No. 130,935; June 8; v. 275; p. 410.
Bread. Ward Bros. Co. No. 130,737; June 8; v. 275; p. 408.
Building, Ready-cut parts of a. E. A. Laughlin Lumber Co. No. 118,440; June 8; v. 275; p. 378.
Burners or heaters, Liquid-fuel. The Steam Corporation. No. 128,574; June 8; v. 275; p. 396.
Cake cone. Maryland Baking Co. No. 130,542; June 8; v. 275; p. 407.
Candies. C. L. Heffelman. No. 130,033; June 8; v. 275; p. 404.
Candies. E. R. Pershing. No. 127,010; June 8; v. 275; p. 390.
Candies. J. W. Riley. No. 129,805; June 8; v. 275; p. 402.
Candies. The Brecht Candy Co. No. 122,758; June 8; v. 275; p. 381.
Candies, Assorted. F. and J. Steffen. No. 129,680; June 8; v. 275; p. 401.
Candy. J. S. Bell Confectionery Company. No. 129,775; June 8; v. 275; p. 402.
Candy. Paul F. Beich Co. No. 129,823; June 8; v. 275; p. 402.
Candy. Curtiss Candy Co. No. 117,220; June 8; v. 275; p. 376.
Candy, Brand of. Johnson & Bonnier. No. 118,602; June 8; v. 275; p. 378.
Candy, fresh fruits, and nuts. Canterbury Candy Makers. No. 123,962; June 8; v. 275; p. 383.
Canned concentrated clam and oyster juices. Moluska Corporation. No. 125,963; June 8; v. 275; p. 387.
Canned fish, fruit, and vegetables. Warrenton Clam Co. No. 129,766; June 8; v. 275; p. 402.
Canned fruits and vegetables. Charles E. Moody & Co. No. 129,074; June 8; v. 275; p. 399.
Canned tuna fish and tomatoes, olive-oil. F. Romeo & Co. No. 129,906; June 8; v. 275; p. 403.
Canned vegetables and fruits. Green Mountain Packing Company. No. 126,364; June 8; v. 275; p. 388.
Canned vegetables and fruits. San Jose Canning Co. No. 130,067; June 8; v. 275; p. 404.
Canned vegetables and fruits, preserves, pickels. C. B. Mallard Co. No. 121,480; June 8; v. 275; p. 380.
Canned vegetables, fruits, shrimp, and oysters. Smith & Nessle Co. No. 128,116; June 8; v. 275; p. 395.
Carpet and rugs made of selvages. W. C. Crandall. No. 129,307; June 8; v. 275; p. 399.
Cars and car-trucks. The J. G. Brill Company. No. 126,305; June 8; v. 275; p. 388.
Casting-rods. Shakespeare Company. No. 121,913; June 8; v. 275; p. 380.
Castings and forgings, Special steel. Bucyrus Company. No. 127,281; June 8; v. 275; p. 391.
Castings, Metal. J. W. Richardson Foundry Metals Corporation. No. 123,368; June 8; v. 275; p. 383.
Cement, lime, and concrete mixtures, Preparations to improve their hardening, &c., properties. C. Catlett. No. 128,879; June 8; v. 275; p. 397.
Cement, Portland. W. R. Grace & Co. No. 130,326; June 8; v. 275; p. 406.
Chains, Metal links for. The Thomas Laughlin Co. No. 116,308; June 8; v. 275; p. 375.
Chocolate. Norma Chocolate Company. No. 129,858; June 8; v. 275; p. 402.
Chocolates. Mexican Products Co. No. 117,735; June 8; v. 275; p. 377.
Cigarettes, little cigars, smoking-tobacco. Estate of I. B. Krinsky. No. 123,649; June 8; v. 275; p. 383.
Cleaning and restoring fabrics, and removing tarnish from metals, Powders for. A. Lob. No. 131,028; June 8; v. 275; p. 410.
Cleaning material for fabrics. Pyrene Manufacturing Company. No. 124,122; June 8; v. 275; p. 384.
Coal products. U. S. Reduction & Atomizing Co. No. 128,809; June 8; v. 275; p. 397.
Coats, vests, and suits, Men's. Rosenberg Bros. & Co. No. 119,815; June 8; v. 275; p. 379.
Coasts, vests, pants, and overcoats, Men's. Rosenberg Bros. & Co. No. 119,816; June 8; v. 275; p. 379.
Coats, vests, trousers, overcoats. L. & S. Friedman. No. 129,008; June 8; v. 275; p. 398.
Cocoa. Norma Chocolate Company. No. 129,857; June 8; v. 275; p. 402.
Coffee. Fred Wolferman Co. No. 130,004; June 8; v. 275; p. 403.
Coffee. The C. D. Kenny Co. No. 123,164; June 8; v. 275; p. 382.
Coffee-roasters, Electric. Magic Coffee Machine Company. No. 126,284; June 8; v. 275; p. 388.
Colors, Food-. National Aniline & Chemical Company. No. 126,195; June 8; v. 275; p. 387.
Cornmeal, bolted meal, buckwheat-flour, &c. Everbest Milling Corporation. No. 123,344; June 8; v. 275; p 382.
Cornstarch, raisins, shredded cocoanut, &c. Troy Dry Goods Co. No. 125,263; June 8; v. 275; p. 385.
Cotton and cotton and silk goods in the piece. Rossman Brothers. No. 122,787; June 8; v. 275; p. 381.
Cotton fabrics and textiles. Oppenheimer & Berliner. No. 125,853; June 8; v. 275; p. 387.
Cotton, half-woolen, and woolen piece goods. S. Minkenhof & Company. No. 125,795; June 8; v. 275; p. 386.

Cotton piece and dress goods. Pacific Mills. No. 130,178; June 8; v. 275; p. 405.
Cotton piece goods. Dryfoos-Tiedemann Co. No. 130,810; June 8; v. 275; p. 408.
Cotton piece goods. Edwin P. Gleason's Son. No. 126,278; June 8; v. 275; p. 388.
Cotton piece goods. J. W. Goddard & Sons. No. 130,830; June 8; v. 275; p. 409.
Crackers, biscuits, cakes, &c. Iten Biscuit Co. No. 131,331; June 8; v. 275; p. 411.
Crackers, biscuits, cakes, &c. Keeber Weyl Baking Co. No. 125,465; June 8; v. 275; p. 386.
Crape in the piece. H. R. Mallinson & Co. No. 130,765; June 8; v. 275; p. 408.
Cream and lotion, hair-tonic, &c., Face-. Coradine. No. 125,078; June 8; v. 275; p. 385.
Cream, Face-. Co-Operative Drug Company. No. 122,237; June 8; v. 275; p. 381.
Creams, rouges, lotions, perfumes, &c. Iris Preparations, Inc. No. 127,477; June 8; v. 275; p. 392.
Cycle-handle-bar grips. Essex Rubber Company. No. 130,324; June 8; v. 275; p. 406.
Dolls. The Faultless Rubber Company. No. 129,709; June 8; v. 275; p. 401.
Dolls and toys. S. I. Rothschild. No. 125,063; June 8; v. 275; p. 385.
Dolls, figure toys, rattles, &c. Toy Tinkers. No. 125,813; June 8; v. 275; p. 386.
Dental plaster. S. J. Spence. No. 127,345; June 8; v. 275; p. 391.
Dishes made from veneer hard wood, &c., and used as containers by grocers. Northern Woodenware Company. No. 128,217; June 8; v. 275; p. 395.
Dresses, costumes, shirtwaists, gloves, &c. J. H. Walker. No. 117,964; June 8; v. 275; p. 377.
Dresses, shirts, underwear, hosiery, &c. J. H. Walker. No. 117,962; June 8; v. 275; p. 377.
Drying-machines, Electrical lavatory. Groton Electrical Devices. No. 109,941; June 8; v. 275; p. 373.
Educational appliance. Marcus Lucius Quinn Conservatory of Music. No. 112,993; June 8; v. 275; p. 374.
Egg-preserver, Chemical. A. W. Chappell. No. 118,751; June 8; v. 275; p. 378.
Electric-light plants for isolated or farm use, Unitary. Perfection Storage Battery Co. No. 128,900; June 8; v. 275; p. 398.
Electrical insulating material. Continental Fibre Company. No. 106,555; June 8; v. 275; p. 373.
Embroideries in the piece. M. Steinberg. No. 121,284; June 8; v. 275; p. 380.
Fabrics, Pile. Sidney Blumenthal & Co. Nos. 130,745–6; June 8; v. 275; p. 408.
Fans and blowers. Hg Electric Ventilating Company. No. 124,650; June 8; v. 275; p. 384.
Feed, chick size, Poultry. International Sugar Feed Co. No. 117,491; June 8; v. 275; p. 377.
Feed, Hog. International Sugar Feed Co. No. 117,490; June 8; v. 275; p. 376.
Feeds for live stock and poultry, Mixed. International Sugar Feed Co. No. 98,945; June 8; v. 275; p. 373.
Feeds, Poultry. W. P. Johnson. 121,978; June 8; v. 275; p. 380.
Feeds, Stock and poultry. J. J. Badenoch Co. No. 114,312; June 8; v. 275; p. 374.
Fertilizer compound. R. H. Hoover. No. 127,122; June 8; v. 275; p. 391.
Fishing-lines. Horton Manufacturing Co. No. 128,552; June 8; v. 275; p. 396.
Fishing rods, lines, reels, hooks, and bait. Hibbard, Spencer, Bartlett & Co. No. 126,378; June 8; v. 275; p. 388.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 122,108; June 8; v. 275; p. 380.
Flavoring extracts for non-alcoholic beverages. National Fruit Flavor Co. No. 128,368; June 8; v. 275; p. 396.
Flour, Ready-mixed cake-. The Jiffo Company. No. 121,396; June 8; v. 275; p. 380.
Flour, Wheat-. Bech, Van Sicien & Co. No. 130,015; June 8; v. 275; p. 403.
Flour, Wheat-. Clover Leaf Milling Company. No. 114,815; June 8; v. 275; p. 374.
Flour, Wheat-. Partalis & Co. Nos. 130,915–16; June 8; v. 275; p. 409.
Flour, Wheat-. Riverside Mill Company. No. 125,060; June 8; v. 275; p. 385.
Flour, Wheat-. Spokane Meelmolens (Spokane Flour Mills). No. 110,081; June 8; v. 275; p. 374.
Flour, Wheat-. Washburn Crosby Company. No. 130,076; June 8; v. 275; p. 404.
Flour, wheat cereal, rolled oats, &c., Buckwheat pancake-. Pillsbury Flour Mills Company. No. 122,228; June 8; v. 275; p. 381.
Flours and cornmeal, Wheat, Graham, &c. McKenzie Milling Company. No. 128,607; June 8; v. 275; p. 397.
Food, Cereal breakfast. I. Shaw. No. 129,477; June 8; v. 275; p. 400.
Food, Stock and poultry. Maritime Trading Corporation. No. 121,813; June 8; v. 275; p. 380.
Furniture, floor, and automobile polish or dressing. J. M. Ensign. No. 125,880; June 8; v. 275; p. 387.
Furs, Dyed. H. Fischer. No. 127,360; June 8; v. 275; p. 391.
Fuses and cut-outs, Electric. Russmann Manufacturing Company. No. 122,958; June 1; v. 275; p. 382.
Gages, Float, fluid, and ullage. Stemco Engineering Company. No. 130,062; June 8; v. 275; p. 404.
Garments, Men's, women's, and children's outer. Cohen, Goldman & Co. No. 127,037. June 8; v. 275; p. 390.
Garters. George Frost Company. No. 130,134. June 8; v. 275; p. 405.
Garters, hose-supporters, arm bands, suspenders. U. S. Garter & Suspender Company. No. 123,144; June 8; v. 275; p. 382.
Gasolene. H. Earl Clack Company. No. 126,990; June 8; v. 275; p. 390.
Gasolene. The Ohio Cities Gas Co. No. 117,351; June 8; v. 275; p. 376.
Gasolene and lubricating oils and greases. F. C. Miller. No. 127,320; June 8; v. 275; p. 391.
Ginger-ale. Bath Bottling Co. No. 131,518; June 8; v. 275; p. 411.
Ginghams and cotton piece goods. Parkhill Mfg. Co. No. 126,227; June 8; v. 275; p. 387.
Glass jars. Merrill-Greer & Chapman. No. 126,890; June 8; v. 275; p. 390.
Gloves, Leather. The Heller Leather Co. No. 127,591; June 8; v. 275; p. 392.
Grape-fruit, pineapples, grape-fruit marmalade. Spanish American Fruit Company. No. 126,652; June 8; v. 275; p. 389.
Grape-juice. W. J. Withers. No. 130,074; June 8; v. 275; p. 404.
Gums and adhesives, Vegetable. Alpha-Lux Company. No. 124,207; June 8; v. 275; p. 391.
Hair-nets. C. Oppenheimer. No. 123,396; June 8; v. 275; p. 383.
Hair-powder for dry shampooing. E. R. Plummer. No. 127,738; June 8; v. 275; p. 393.
Hair-restorers. H. B. Smith. No. 127,784; June 8; v. 275; p. 393.
Handkerchiefs. L. A. Silk. No. 126,781; June 8; v. 275; p. 389.
Hat-blocking dies and hat-blocks. J. C. Martin. No. 115,693; June 8; v. 275; p. 375.
Hats and caps, Children's. K. M. Polhamus. No. 130,390; June 8; v. 275; p. 406.
Hats, caps, neckwear. B. Tulchinsky. No. 126,429; June 8; v. 275; p. 389.
Heating and ventilating units. Hg Electric Ventilating Company. No. 124,939; June 8; v. 275; p. 385.
Heels and heel-cushions, Yielding. Melville Shoe Corporation. No. 127,517; June 8; v. 275; p. 392.
Hosiery. The Futurist Company. No. 129,629; June 8; v. 275; p. 401.
Hosiery and underwear. Comfurta Hosiery Co. No. 129,054; June 8; v. 275; p. 399.
Hosiery, Ladies' and infants'. C. Fall. No. 129,494; June 8; v. 275; p. 400.
Ink, Writing-. V. & L. Chemical Co. No. 130,856; June 8; v. 275; p. 409.
Ink, Writing and engrossing. E. Goodwirth. No. 127,051; June 8; v. 275; p. 390.
Inks and ink sticks. H. L. Perez. No. 125,799; June 8; v. 275; p. 386.
Insecticides. Randall-McLoughlin Co. No. 127,929; June 8; v. 275; p. 394.
Ironing-machines. Barnett Foundry & Machine Co. No. 128,915; June 8; v. 275; p. 398.
Kerosene, gasolene, lubricating-oils. C. E. McLaughlin. 118,339; June 8; v. 275; p. 377.
Knit and textile coats and sweaters. Greenebaum Weil & Michels. No. 123,977; June 8; v. 275; p. 384.
Knit cloth in the piece, Jersey. Wilkin & Adler. No. 130,350; June 8; v. 275; p. 406.
Knitted underwear. Crossingham Knitting Mills. No. 128,596; June 8; v. 275; p. 397.
Knives, forks, spoons, (silver plated.) Harper & McIntire Company. No. 130,895; June 8; v. 275; p. 409.
Knives of base metal, Table-. Northampton Cutlery Company. No. 122,131; June 8; v. 275; p. 381.
Leather, &c., dressing and preservative. Chicago Belting Company. No. 120,660; June 8; v. 275; p. 379.
Lenses, Ophthalmic. J. Robinson Cohen & Bro. No. 130,240; June 8; v. 275; p. 405.
Lights, Night-. United States Wax Corporation. No. 126,264; June 8; v. 275; p. 388.
Lighting units. Luminous Specialty Company. No. 125,466; June 8; v. 275; p. 386.
Linings, Garment-. M. Davis & Sons Textile Co. No. 130,466; June 8; v. 275; p. 406.
Lotions, hair-tonic, &c., Face and hand. Coradine. No. 125,079; June 8; v. 275; p. 385.
Lye and chlorinated lime. The Penn Chemical Works. No. 127,831; June 8; v. 275; p. 394.
Macaroni. Perrone Brothers. No. 128,519; June 8; v. 275; p. 396.
Machine-tools. Bullard Machine Tool Co. No. 119,467; June 8; v. 275; p. 378.
Marmalade. James Robertson & Sons, Preserves Manufacturers. No. 125,858; June 8; v. 275; p. 387.
Marshmallows, cream candies, fudge, &c. The D. L. Clark Company. No. 128,660; June 8; v. 275; p. 397.
Matches. Stromberg Export & Import Co. No. 122,058; June 8 v. 275; p. 380.
Meats, canned fruits, and vegetables, &c. Finley Acker Co. No. 129,052; June 8; v. 275; p. 399.

Medicine for nervous and sick headache. J. B. McManes. No. 123,073; June 8; v. 275; p. 382.
Medicine for rheumatism, neuralgia, colds, &c. John L. Fischer & Brother. No. 116,374; June 8; v. 275; p. 375.
Medicine for the treatment of neurasthenia, anemia, &c. The Glandular Research Laboratories. No. 127,909; June 8; v. 275; p. 394.
Medicines for rheumatism, corns, cramps, &c. H. E. Young. No. 127,707; June 8; v. 275; p. 393.
Medical preparation for the relief of colds. W. J. Mears. No. 122,178; June 8; v. 275; p. 381.
Medicinal preparation for rheumatism, liver complaint, &c. The Victory Drug & Medicine Co. No. 121,684; June 8; v. 275; p. 380.
Medicinal preparation for the teeth and gums. Vanadium Chemical Company. No. 127,947; June 8; v. 275; p. 394.
Middy blouses and dresses. Rite Mfg. Co. No. 129,607; June 8; v. 275; p. 401.
Middy-suits. Mar-Hof Co. No. 130,231; June 8; v. 275; p. 405.
Milk, Condensed. Ezekiel Brothers. No. 117,272; June 8; v. 275; p. 376.
Milk, Condensed. Rogers Milk Corporation. No. 130,557; June 8; v. 275; p. 407.
Milk-chocolate. Carnation Milk Products Company. No. 95,120; June 8; v. 275; p. 373.
Milk, Evaporated. T. C. Leedom. No. 129,597; June 8; v. 275; p. 401.
Molasses. G. Roseman. No. 125,972; June 8; v. 275; p. 387.
Mops. Massasoit Manufacturing Company. No. 127,549; June 8; v. 275; p. 392.
Neckties and cravats. Frau and Loevner. No. 129,755; June 8; v. 275; p. 401.
Needles, Sewing-machine. Union Special Machine Company. No. 123,671; June 8; v. 275; p. 383.
Needles, Sewing-machine. Union Special Machine Company. Nos. 130,857–62; June 8; v. 275; p. 409.
Nipples, Infants' rubber water-bottles, &c. United Drug Company. No. 127,622; June 8; v. 275; p. 392.
Oil, Hydrogenated vegetable. Haug & Co. No. 129,323; June 8; v. 275; p. 399.
Oils, Fuel-. Rochester Railway and Light Company. No. 119,989; June 8; v. 275; p. 379.
Oleomargarin. B. S. Pearsall Butter Co. No. 131,651; June 8; v. 275; p. 411.
Olives and olive-oil. Finley Acker Co. No. 130,257; June 8; v. 275; p. 406.
Optical apparatus for magnifying and viewing stereoscopic, transparent, and photographic plates. Scientific Materials Company. No. 122,190; June 8; v. 275; p. 381.
Optical goods. Nomar Optical Co. No. 127,770; June 8; v. 275; p. 393.
Optical goods and furnishings. J. A. Miller. No. 127,864; June 8; v. 275; p. 394.
Optical lenses and goggles. The Standard Optical Company. No. 129,575; June 8; v. 275; p. 400.
Oranges, Fresh. R. T. Davies. No. 129,702; June 8; v. 275; p. 401.
Overalls. Keet & Rountree Dry Goods Co. No. 124,484; June 8; v. 275; p. 384.
Overalls, overall-jumpers, work pants, and shirts. The Bowman Overall Co. No. 130,012; June 8; v. 275; p. 403.
Paper. C. H. Dexter & Sons. No. 116,361; June 8; v. 275; p. 375.
Paper and inked ribbons, Carbon-. Waters and Waters Manufacturing Company. No. 131,842; June 8; v. 275; p. 412.
Paper and mailing-envelops, Writing-. Eaton, Crane & Pike Company. No. 130,756; June 8; v. 275; p. 408.
Paper, envelops, diplomas, memorandum-books, &c., Writing-. Tiffany & Company. No. 128,251; June 8; v. 275; p. 395.
Paper, Manila wrapping-paper, &c., Toilet-. The John Hoberg Co. Nos. 130,043–4; June 8; v. 275; p. 404.
Papers, paper napkins and towels, Toilet and tissue. The John Hoberg Company. No. 130,042; June 8; v. 275; p. 404.
Pearls. C. A. Lichtenstein. No. 131,180; June 8; v. 275; p. 410.
Pearls, Artificial. Bulova-Henshel Company. No. 131,375; June 8; v. 275; p. 411.
Pens, Fountain-. W. J. May & Co. No. 123,548; June 8; v. 275; p. 383.
Phonographs. The Melodia Company. No. 128,450; June 8; v. 275; p. 396.
Phonographs and phonograph-record cabinets. The Oscar Onken Company. No. 125,968; June 8; v. 275; p. 387.
Pianos. C. C. and E. E. Conway, and T. P. Brown, trustees. Nos. 126,454–6; June 8; v. 275; p. 389.
Pianos, Player-. Herzfeld-Phillipson Company. No. 126,032; June 8; v. 275; p. 387.
Pianos, player-pianos, and parts thereof. The Cable Company. Nos. 116,736–7; June 8; v. 275; p. 375.
Picture films and still pictures, Motion-. Euclid Film Company. No. 129,972; June 8; v. 275; p. 403.
Pie-fillings, puddings, and jellies. Good Luck Food Co. No. 129,713; June 8; v. 275; p. 401.
Planchette-boards. L. White. No. 128,034; June 8; v. 275; p. 394.
Plastic composition for the manufacture of models for artificial teeth. B. M. Goldberg. No. 128,437; June 8; v. 275; p. 396.
Plows and parts thereof. International Harvester Company. No. 130,221; June 8; v. 275; p. 405.
Poison for animals. Northwestern Hide & Fur Co. No. 116,750; June 8; v. 275; p. 376.
Powders, rouges, &c., Face-. Julius Schmid Incorporated. No. 102,359; June 8; v. 275; p. 373.
Preparation for catarrh, croup, piles, &c. L. L. Reed. No. 128,210; June 8; v. 275; p. 395.
Preparation for the treatment of biliousness, constipation, &c. W. W. Abel. No. 117,520; June 8; v. 275; p. 377.
Preparation for the treatment of sore throat. W. J. Hurley. No. 127,690; June 8; v. 275; p. 393.
Pudding-dessert mixture. Egg-O Co. No. 117,523; June 8; v. 275; p. 377.
Refrigerating-machines. G. R. Jarman. No. 113,047; June 8; v. 275; p. 374.
Refrigerators, Iceless. Atmospheric Refrigeration Corporation. No. 131,461; June 8; v. 275; p. 411.
Rick-rack, wave braids, shoe and corset laces, &c. The Narrow Fabric Co. No. 119,984; June 8; v. 275; p. 379.
Root-beer. Kamm & Schellinger Co. No. 131,799; June 8; v. 275; p. 411.
Rouge, lip-stick, &c. A. E. Kiesling. No. 119,521; June 8; v. 275; p. 378.
Rubber sheeting and blankets. Archer Rubber Co. Nos. 130,565–6; June 8; v. 275; p. 407.
Rugs. Empire Carpet Co. No. 130,888; June 8; v. 275; p. 409.
Rugs, Woven textile. Sanford Mills. No. 129,250; June 8; v. 275; p. 399.
Salve for colds, coughs, hay-fever, &c., Medicated. The Orium Company. No. 127,828; June 8; v. 275; p. 393.
Salve for the treatment of piles. F. G. McCoy. No. 126,942; June 8; v. 275; p. 390.
Satin in the piece. H. R. Mallinson & Co. No. 130,972; June 8; v. 275; p. 410.
Scrim. Boutwell Fairclough & Gold. (now by change of name Fairclough & Gold). No. 107,954; June 8; v. 275; p. 373.
Sheetings, suitings, ducks, drills, &c. Hispanic Textile Company. No. 128,553; June 8; v. 275; p. 396.
Shirts. The Hilker-Wiechers Mfg. Co. No. 125,460; June 8; v. 275; p. 386.
Shirts. Watts, Ritter & Company. No. 128,124; June 8; v. 275; p. 395.
Shirts, Dress and negligée. Commercial Shirt Company. No. 126,897; June 8; v. 275; p. 390.
Shirt, Flannel outer. American Wholesale Corporation. No. 128,993; June 8; v. 275; p. 398.
Shirts, Men's. Nuway Manufacturing Company. No. 127,975; June 8; v. 275; p. 394.
Shingles, laths, and oak flooring. John B. Ransom & Company. No. 119,665; June 8; v. 275; p. 379.
Shoe-linings in the piece, Cotton twill. Farnsworth, Hoyt Co. No. 129,590; June 8; v. 275; p. 400.
Shoes. United Drug Company. No. 127,623; June 8; v. 275; p. 392.
Shoes, Children's. Craddock-Terry Company. No. 124,449; June 8; v. 275; p. 400.
Silk piece goods. Empire Silk Company. No. 127,583; June 8; v. 275; p. 392.
Silk piece goods, Broad. Duplan Silk Corporation. Nos. 130,649–51; June 8; v. 275; p. 407.
Silk piece goods, Broad. Duplan Silk Corporation. Nos. 130,653–4; June 8; v. 275; pp. 407–8.
Slippers. United States Rubber Company. No. 126,337; June 8; v. 275; p. 388.
Slippers. Worcester Felt Goods Company. No. 130,307; June 8; v. 275; p. 406.
Smokers' articles. A. Dunhill. No. 167,226; June 8; v. 275; p. 373.
Soap. A. P. Hayter. No. 131,172; June 8; v. 275; p. 410.
Soap. Pattison & Co. No. 132,023; June 8; v. 275; p. 412.
Soap. Western Soap Products Company. No. 126,299; June 8; v. 275; p. 388.
Soap, Liquid and powdered. American Products Corporation. No. 131,689; June 8; v. 275; p. 411.
Soap, Shaving-. Colgate & Co. No. 119,120; June 8; v. 275; p. 378.
Soda-water, Bottled. L. Glazer. No. 131,322; June 8; v. 275; p. 410.
Spark-timers and electric coils. J. & B. Manufacturing Company. No. 128,734; June 8; v. 275; p. 397.
Spectacles, eyeglasses, &c. Wall & Ochs. No. 130,399; June 8; v. 275; p. 406.
Spectacles, eyeglasses, &c. Wall & Ochs. No. 130,401; June 8; v. 275; p. 406.
Steel, Hollow and solid bar-. Halcomb & Davidson. No. 116,712; June 8; v. 275; p. 375.
Stencils. L. Wallenstein. No. 131,241; June 8; v. 275; p. 410.
Suits and overcoats, Men's. Feldman, Emanuel & Company. No. 130,027; June 8; v. 275; p. 403.
Suits for men and boys, Outer. Kahn Dreyfus & Co. No. 129,785; June 8; v. 275; p. 402.
Suits, overcoats, and caps, Boys'. I. Gross. No. 111,391; June 8; v. 275; p. 374.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Sweaters, blouses, work-shirts, &c. Excello Mercandise Co. No. 126,565; June 8; v. 275; p. 389.

Sweepers and cleaners and parts thereof, Electrically operated vacuum. D. B. Replogle. No. 114,191; June 8; v. 275; p. 374.

Syrup for table use. Seattle & Puget Sound Packing Company. No. 127,042; June 8; v. 275; p. 394.

Syrup to make soft-drink beverages, Non-alcoholic. E. Bernstein. No. 117,213; June 8; v. 275; p. 376.

Tablets, Laxative. The Zensal Company of Oklahoma City. No. 127,072; June 8; v. 275; p. 391.

Talc. Inyo Talc Company. No. 131,967; June 8; v. 275; p. 412.

Talking-machine records. Columbia Graphophone Manufacturing Company. No. 125,274; June 8; v. 275; p. 386.

Talking-machines. C. D. Swendson. No. 130,182; June 8; v. 275; p. 405.

Tanks, Oil-. Hammond Iron Works. No. 127,758; June 8; v. 275; p. 393.

Targets. Black Products Company. No. 124,332; June 8; v. 275; p. 384.

Templets and try-gages. Chrobaltic Tool Company. No. 129,047; June 8; v. 275; p. 399.

Ticking. American Importing Co. Nos. 129,527–9; June 8; v. 275; p. 400.

Tires, Inner tubes for pneumatic. Racine Auto Tire Company. No. 124,190; June 8; v. 275; p. 384.

Toilet preparations. J. C. Panaghlotopulos. No. 123,257; June 8; v. 275; p. 382.

Toothbrushes. Geo. R. Gibson Co. No. 121,246; June 8; v. 275; p. 380.

Trucks and automobiles, Motor-. Hamilton Motors Company. No. 122,432; June 8; v. 275; p. 381.

Trucks, Motor-. Graham Brothers. No. 129,055; June 8; v. 275; p. 399.

Trucks, Motor-. Hudford Company of Chicago. No. 129,891; June 8; v. 275; p. 402.

Trucks, Motor-. Reliance Motor Truck Company. No. 129,988; June 8; v. 275; p. 403.

Turpentine. Gaston, Williams & Wigmore. No. 115,675; June 8; v. 275; p. 375.

Undershirts and drawers, ladies' waists, &c., Men's. Deco Co. No. 128,670; June 8; v. 275; p. 397.

Underwear, shirts, blouses, &c. H. Ostrowsky Co. No. 130,124; June 8; v. 275; p. 405.

Varnish, flat wall, &c., paints. A. Nehring & Sons Company. No. 128,978; June 8; v. 275; p. 398.

Vehicles, Motor-. Oneida Motor Truck Co. No. 128,163; June 8; v. 275; p. 395.

Veils and hair-nets, Face-. Fulghum & Company. No. 127,642; June 8; v. 275; p. 393.

Veterinary needles and syringes, pill-injectors, &c. Becton, Dickinson & Co. No. 121,616; June 8; v. 275; p. 380.

Washboilers. Sargoy Brothers. No. 131,192; June 8; v. 275; p. 410.

Washboilers. Nichthauser & Levy. No. 128,854; June 8; v. 275; p. 397.

Washing-machines and wringers. General Railway Signal Company. No. 130,758; June 8; v. 275; p. 408.

Washing-powder. C. B. Garnett. No. 131,903; June 8; v. 275; p. 412.

Watches. A. & J. Plaut. No. 130,551; June 8; v. 275; p. 407.

Waterproof dressing for shoes. Gold Medal Cleaner Co. No. 132,174; June 8; v. 275; p. 412.

Wheels, Motor-vehicle. Baker Wheel & Rim Company. No. 114,263; June 8; v. 275; p. 374.

Writing fluid. Western Products Co. No. 131,682; June 8; v. 275; p. 411.

X-ray units, Cabinets of. Campbell Electric Co. No. 119,882; June 8; v. 275; p. 379.

CLASSIFICATION OF PATENTS

ISSUED JUNE 8, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 39: 1,342,415
2— 32: 1,342,924
41: 1,342,906
84: 1,342,796
93: 1,342,566
119: 1,342,897
1,342,898
124: 1,343,166
142: 1,343,035
144: 1,343,038
4— 1: 1,342,843
13: 1,342,474
18: 1,342,505
21: 1,342,716
5— 13: 1,343,167
46: 1,343,044
48: 1,342,785
8— 18: 1,342,711
19: 1,342,935
20: 1,343,138
1,343,139
9— 18: 1,342,619
10— 86: 1,342,676
89: 1,343,158
92: 1,342,536
100: 1,342,534
145: 1,342,754
161: 1,342,742
12— 142: 1,342,469
13— 6: 1,342,771
18: 1,342,772
21: 1,342,714
15— 8: 1,343,137
14: 1,342,488
44: 1,342,492
46: 1,342,537
1,342,971
60: 1,342,593
61: 1,343,032
69: 1,342,994
16— 4: 1,342,448
9: 1,343,033
103: 1,342,443
164: 1,342,500
17— 14: 1,342,515
18— 3.5: 1,342,450
18: 1,342,916
46: 1,342,970
53: 1,342,457
1,342,458
19— 25: 1,342,713
20— 6: 1,342,610
15: 1,343,168
19: 1,342,751
50: 1,342,411
92: 1,342,979
21— 27: 1,342,724
217: 1,342,493
22— 73: 1,343,016
92: 1,342,428
123: 1,343,128
200: 1,343,017
23— 1: 1,342,721
3: 1,342,539
13: 1,342,519
1,342,834
1,342,956
24— 66: 1,342,504
68: 1,342,616
73: 1,342,631
1,343,096
96: 1,343,080
123: 1,343,177
139: 1,342,755
218: 1,342,738
259: 1,342,698
25— 130: 1,343,176
156: 1,342,499
27— 24: 1,342,997
28— 4: 1,342,646
6: 1,343,076
20: 1,343,102
29— 18: 1,342,484
26: 1,342,865
38: 1,342,963
85: 1,342,907
1,343,015
29— 86.1: 1,342,840
87.1: 1,342,529
1,343,130
88.2: 1,342,763
1,342,852
99: 1,342,600
148: 1,342,801
30— 1: 1,343,174
1,343,175
12: 1,342,494
1,343,012
31— 14: 1,342,569
32— 10: 1,342,968
33— 27: 1,342,872
49: 1,343,003
93: 1,342,730
172: 1,342,992
204: 1,343,188
34— 17: 1,342,774
35— 5: 1,343,181
12: 1,342,520
1,343,095
1,343,112
36— 44: 1,342,967
37— 5: 1,343,097
19: 1,342,895
24: 1,343,081
30: 1,342,998
42: 1,343,159
54: 1,342,759
39— 18: 1,343,023
40— 2: 1,342,627
10: 1,342,844
39: 1,342,538
41: 1,342,793
146: 1,343,054
152: 1,342,817
155: 1,342,477
42— 66: 1,342,923
43— 84: 1,343,066
87: 1,342,425
119: 1,342,933
137: 1,342,974
1: 1,342,799
45— 13: 1,342,626
27: 1,342,435
1,342,686
48: 1,342,951
52: 1,342,851
97: 1,342,854
113: 1,342,481
120: 1,342,820
46— 6: 1,342,517
35: 1,343,065
41: 1,342,706
1,342,884
45: 1,342,577
1,342,882
1,342,945
51: 1,342,773
56: 1,343,083
59: 1,343,136
49— 7: 1,342,821
1,343,179
17: 1,342,533
17.1: 1,343,186
19: 1,342,786
34: 1,343,014
55: 1,343,183
77: 1,342,960
51— 4: 1,343,011
120: 1,343,050
52— 3: 1,343,063
1,343,077
53— 1: 1,342,888
1,343,114
5: 1,343,120
7: 1,342,444
54— 78: 1,343,147
55— 3: 1,342,454
84: 1,342,614
107: 1,342,795
56— 12: 1,342,528
119: 1,342,640
57— 116: 1,342,699
59— 7: 1,342,417
60— 4: 1,342,544
60— 15: 1,342,723
24: 1,342,501
52: 1,343,117
57: 1,342,682
59: 1,343,056
67: 1,342,841
61— 57: 1,342,424
84: 1,342,503
62— 92: 1,343,051
116: 1,342,964
64— 17: 1,343,152
25: R. 14,878
38: 1,342,541
49: 1,342,756
81: 1,342,784
96: 1,343,121
65— 45: 1,342,524
61: 1,343,099
67— 7.1: 1,342,838
37: 1,342,446
1,342,849
68— 10: 1,342,660
31: 1,342,807
69— 16: R. 14,876
1,342,430
70— 46: 1,343,187
53: 1,343,048
1,343,145
69: 1,342,465
108: 1,343,064
126: 1,342,748
127: 1,342,728
72— 7: 1,342,812
95: 1,342,918
138: 1,342,439
73— 1: 1,342,886
52: 1,343,088
74— 5: 1,342,648
7: 1,342,687
1,343,031
26: 1,342,791
28: 1,343,047
36: 1,343,107
38: 1,342,683
46: 1,342,762
1,342,965
58: 1,342,887
1,342,928
1,343,131
1,343,132
59: 1,342,587
1,342,920
70: 1,342,525
105: 1,343,178
106: 1,342,649
112: 1,343,005
1,343,006
119: 1,342,599
120: 1,343,007
1,343,008
1,343,009
1,343,061
75— 1: 1,342,911
1,342,913
1,342,993
18: 1,343,153
46: 1,342,701
76— 46: 1,342,462
77— 7: 1,343,180
56: 1,342,447
78— 26: 1,342,782
79— 14: 1,343,042
80— 54: 1,342,608
81— 3.1: 1,342,848
131: 1,342,856
152: 1,342,643
82— 1: 1,342,632
24: 1,342,983
34: 1,342,745
1,342,746
35: 1,342,535
83— 31: 1,342,693
45: 1,342,917
1,343,041
56: 1,342,990
60: 1,342,989
67: 1,342,567
83— 68: 1,342,727
84— 10: 1,343,163
1,343,164
80: 1,342,718
125: 1,342,846
121— 28: 1,342,540
85— 5: 1,343,089
87— 12: 1,342,668
16: 1,342,783
88— 1: 1,342,578
2.6: 1,343,025
17: 1,342,429
18.4: 1,342,560
24: 1,342,735
28: 1,342,561
32: 1,343,074
42: 1,343,090
50: 1,342,808
53: 1,342,973
89— 28: 1,342,729
31: 1,342,978
35: 1,343,060
36: 1,342,943
40: 1,342,475
43: 1,342,708
1,342,709
91— 67.4: 1,342,824
68: 1,342,767
92— 44: 1,342,655
93— 59: 1,342,575
93: 1,342,665
95— 8: 1,342,590
97— 33: 1,343,058
36: 1,342,479
1,342,836
20: 1,343,122
42: 1,342,642
51: 1,342,815
81: 1,343,062
93: 1,342,827
100— 31: 1,342,981
47: 1,343,059
101— 56: 1,343,170
175: 1,342,530
199: 1,342,722
287: 1,342,629
368: 1,343,073
375: 1,342,803
102— 2: 1,343,036
36: 1,342,413
39: 1,342,652
103— 75: 1,342,798
80: 1,343,157
87: 1,342,487
104— 117: 1,342,926
105— 27: 1,342,761
315: 1,342,702
106— 11: 1,343,040
34: 1,342,433
37: 1,342,602
40: 1,342,601
1,342,603
1,343,135
107— 8: 1,342,675
16: 1,343,120
108— 5: 1,342,510
110— 87: 1,342,931
171: 1,342,908
112— 3: 1,342,423
39: 1,342,685
45: 1,342,903
115: 1,343,149
136: 1,342,775
174: 1,342,669
242: 1,342,800
113— 112: 1,342,703
114— 203: 1,342,612
116— 22: 1,342,584
33: 1,342,543
45: 1,342,850
142: 1,342,863
173: 1,343,140
119— 45: 1,342,434
1,343,071
55: 1,343,093
73: 1,343,010
103: 1,342,893
119— 159: 1,342,776
120— 17: 1,342,416
46: 1,342,736
107: 1,342,576
121— 28: 1,342,540
88: 1,342,499
95: 1,343,115
193: 1,343,105
122— 195: 1,342,672
424: 1,343,144
123— 44: 1,342,922
47: 1,343,142
59: 1,342,438
65: 1,343,161
66: 1,342,483
70: 1,342,498
73: 1,342,449
1,342,558
98: 1,342,656
117: 1,342,976
119: 1,342,899
122: 1,342,950
148: 1,342,553
149: 1,342,607
169: 1,342,421
1,342,431
1,343,052
173: 1,342,633
177: 1,343,111
193: 1,342,939
195: 1,342,977
14: 1,342,700
30: 1,342,647
33: 1,342,984
45: 1,342,422
20: 1,343,122
39: 1,342,991
90: 1,342,921
93: 1,342,570
275: 1,342,455
129— 1: 1,342,766
13: 1,343,103
24: 1,342,833
41: 1,342,637
130— 1: 1,342,574
27: 1,342,806
32: 1,342,571
131— 9: 1,343,125
10: 1,342,868
51: 1,342,805
22: 1,342,822
132— 13: 1,342,673
133— 17.5: 1,343,150
24: 1,342,862
35: 1,342,638
55: 1,342,497
56: 1,342,942
135— 5: 1,342,452
7: 1,342,987
33: 1,342,451
52: 1,342,506
137— 21: 1,342,516
1,343,072
53: 1,342,667
1,342,985
71: 1,342,491
104: 1,342,874
139: 1,342,641
144: 1,342,966
160: 1,342,464
138— 16: 1,343,024
139— 22: 1,342,726
48: 1,342,946
51: 1,342,555
54: 1,342,710
71: 1,342,589
85: 1,342,573
93: 1,342,876
94: 1,342,896
140— 1: 1,342,712
141— 7: 1,342,485
1,342,739
141— 12: 1,342,624
142— 476: 1,342,606
144— 2: 1,342,925
292: 1,342,891
1,342,892
145— 51: 1,343,101
146— 3: 1,342,689
1,342,690
1,342,691
1,342,692
12: 1,342,875
149— 20: 1,342,760
150— 42: 1,342,432
151— 12: 1,342,503
9: 1,342,877
53: 1,342,559
152— 1: 1,342,562
1,343,154
8: 1,343,172
11.5: 1,343,160
16: 1,342,753
17: 1,343,155
21: 1,342,622
27: 1,342,565
53: 1,342,461
32: 1,342,554
38: 1,342,564
4: R. 14,875
8: 1,342,441
9: R. 14,879
155— 22: 1,342,518
31: 1,342,715
58: 1,343,124
142: 1,342,650
168: 1,343,119
179: 1,342,522
156— 17: 1,342,527
24: 1,343,126
37: 1,343,069
158— 36: 1,342,830
46.5: 1,343,173
56: 1,342,988
63: 1,342,526
76: 1,342,732
99: 1,342,436
106: 1,342,617
110: 1,343,098
111: 1,342,912
117.5: 1,342,901
164— 44: 1,342,473
49: 1,342,621
57: 1,343,079
68: 1,343,146
90: 1,342,879
116: 1,342,878
117: 1,342,880
166— 1: 1,342,679
1,342,780
5: 1,342,813
1,342,986
13: 1,342,927
18: 1,342,618
21: 1,342,781
167— 3: 1,343,108
6: 1,343,034
168— 31: 1,342,615
169— 32: 1,342,768
170— 38: 1,342,811
171— 123: 1,343,026
324: 1,342,583
172— .8: 1,342,797.
240: 1,342,915
285: 1,343,127
289: 1,343,021
1,343,022
173— 31: 1,342,645
269: 1,342,819
322: 1,342,787
346: 1,342,658
175— 183: 1,342,816
1,342,837
294: 1,343,018
298: 1,342,546
1,342,547
356: 1,342,995
369: 1,342,548
176— 42: 1,343,037

177— 337: 1,342,788
346: 1,343,141
351: 1,342,860
1,342,944
352: 1,342,579
179— 18: 1,342,792
1,342,902
27: 1,342,823
28: 1,342,835
122: 1,342,581
1,342,582
180— 9.2: 1,342,412
12: 1,342,523
14: 1,342,752
1,342,764
26: 1,342,765
1,342,770
42: 1,342,861
49: 1,342,938
54: 1,342,427
1,342,934
75: 1,342,634
82: 1,343,049
181— 31: 1,342,663
183— 4: 1,342,867
7: 1,342,651
184— 6: 1,342,904
24: 1,342,605
65: 1,343,104
185— 38: 1,342,857
187— 11: 1,342,982
54: 1,342,832
75: 1,343,118
188— 5: 1,343,116
189— 14: 1,342,828
23: 1,342,847
46: 1,342,482
82: 1,342,818
190— 57: 1,342,677
193— 2: 1,342,684
1,342,975
6: 1,343,184
7: 1,342,789
44: 1,342,456
193— 48: 1,342,598
194— 37: 1,342,858
196— 21: 1,343,100
26: 1,342,790
197— 66: 1,342,940
82: 1,342,466
1,342,489
1,342,490
91: 1,342,941
186: 1,342,513
199— 31: 1,342,596
33: 1,342,980
55: 1,342,595
57: 1,343,171
200— 50: 1,342,549
1,342,550
52: 1,342,591
57: 1,342,468
88: R. 14,881
118: 1,343,039
145: 1,342,999
164: 1,343,109
166: 1,342,674
169: 1,342,972
204— 1: 1,342,664
1,342,910
5: 1,342,899
9: 1,342,737
15: 1,342,804
29: 1,342,511
1,342,611
1,342,952
1,342,953
1,342,954
64: 1,342,636
1,342,809
206— 15.1: 1,342,521
27: 1,342,695
41: 1,342,512
59: 1,342,909
208— 34: 1,342,440
113: 1,342,688
165: 1,342,720
210— 25: 1,342,743
210— 25: 1,343,078
178: 1,343,182
195: 1,342,520
1,342,839
211— 8: 1,342,733
24: 1,342,731
28: R. 14,877
29: 1,342,853
212— 8: 1,342,480
58: 1,342,959
213— 42: 1,342,586
1,342,606
1,342,697
67: 1,342,725
1,342,949
214— 1: 1,342,526
6: 1,342,463
16: 1,342,418
91: 1,342,470
215— 1: 1,342,568
1,342,747
34: 1,342,657
80: 1,343,013
118: 1,342,883
216— 6: 1,343,106
217— 15: 1,342,750
219— 10: 1,342,717
1,342,957
25: 1,342,864
1,342,905
38: 1,343,053
39: 1,343,134
48: 1,342,594
76: 1,342,842
220— 10: 1,343,169
25: 1,342,740
221— 24: 1,342,639
142: 1,342,948
223— 20: 1,342,937
31: 1,343,185
224— 29: 1,342,557
226— 93: 1,342,559
228— 29: 1,342,542
33: 1,342,881
228— 54: 1,343,094
229— 16: 1,342,769
17: 1,342,770
39: 1,343,002
68: 1,343,075
230— 2: 1,343,004
11: 1,342,592
232— 45: 1,342,800
62: 1,343,151
235— 55: 1,342,476
60: 1,342,999
82: 1,342,459
236— 45: 1,343,162
237— 17: 1,342,509
238— 62: 1,342,420
122: 1,343,001
279: 1,343,070
294: 1,342,661
240— 1: 1,342,777
1,342,778
1,342,894
41: 1,342,426
48.4: 1,342,744
62: 1,343,143
241— 4: 1,342,666
12: 1,342,704
1,342,930
242— 55: 1,342,556
66: 1,342,532
85: 1,342,653
95: 1,342,749
115: 1,343,067
243— 6: 1,342,531
244— 1: 1,342,802
1,342,871
9: 1,343,055
12: 1,342,998
246— 45: 1,342,873
63: 1,342,644
71: 1,342,572
124: 1,342,635
158: 1,343,133
485: 1,342,962
247— 10: 1,342,545
248— 1: 1,342,889
7: 1,342,659
249— 19: 1,342,670
250— 8: 1,343,165
20: 1,342,885
251— 18: 1,342,620
78: 1,342,734
98: 1,342,900
133: 1,343,043
160: 1,342,419
167: 1,342,955
253— 3: 1,342,845
18: 1,342,613
180: 1,342,551
199: 1,342,552
254— 72: 1,342,625
186: 1,342,757
255— 28: 1,342,855
35: 1,342,870
61: 1,342,814
256— 73: 1,342,453
257— 24: 1,342,471
142: 1,342,680
259— 72: 1,343,091
95: 1,342,947
100: 1,342,866
261— 43: 1,342,445
44: R.14,880
75: 1,342,810
122: 1,343,123
262— 3: 1,342,741
263— 4: 1,343,045
5: 1,342,932
1,343,092
6: 1,343,019
9: 1,342,958
23: 1,342,694
266— 23: 1,342,502
267— 17: 1,343,027
54: 1,342,623
67: 1,342,514
271— 29: 1,342,630
274— 1: 1,343,156
274— 10: 1,342,442
14: 1,343,087
27: 1,342,662
277— 70: 1,342,719
279— 60: 1,343,086
280— 11: 1,343,046
33.5: 1,342,507
40: 1,343,000
53: 1,342,437
56: 1,342,585
179: 1,342,654
281— 7: 1,342,707
283— 58: 1,343,110
63: 1,343,082
284— 10: 1,343,084
19: 1,342,678
285— 52: 1,342,825
161: 1,342,936
177: 1,342,671
287— 33: 1,342,929
36: 1,342,495
290— 36: 1,343,028
1,343,029
1,343,030
48: 1,342,478
1,343,020
292— 189: 1,342,961
240: 1,342,563
294— 31: 1,342,758
57: 1,342,467
69: 1,342,414
118: 1,343,057
296— 52: 1,342,705
76: 1,343,068
84: 1,342,794
138: 1,342,831
139: 1,343,148
145: 1,342,460
298— 10: 1,342,919
11: 1,342,628
19: 1,342,472
299— 93: 1,342,580
133: 1,342,486

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrams, Albert. (See Hoffman, Samuel O., assignor.)
Abrams, Herbert T., Orange, assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic valve for air-lift pumps. No. 1,343,190; June 15; v. 275; p. 427.
Ackroyd, John H., Milford, Conn. Gas-burner. No. 1,343,700; June 15; v. 275; p. 526.
Adams, James L., Jr., and H. H. Welch, assignors to A. O. Smith Corporation, Milwaukee, Wis. Electric-arc-welding machine. No. 1,343,607; June 15, v. 275; p. 507.
Adams & Westlake Company, The. (See Krohn, Nelson, assignor.)
Aetna Explosives Company. (See Flurscheim, Bernhard J., assignor.)
Afrancl, Moses, New York, N. Y. Brush-holder No. 1,343,381; June 15; v. 275; p. 463.
Ahlin, Albert, assignor to Orrefors Bruks Aktiebolag, Orrefors, Sweden. Manufacturing decorated articles of glass with colored figures in the glass mass. No. 1,343,806; June 15; v. 275; p. 547.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pneumatic-core wire-puller. No. 1,343,701; June 15; v. 275; p. 526.
Akers, Lawrence S., Memphis, Tenn. Fire-door-closing apparatus. No. 1,343,757; June 15; v. 275; p. 537.
Albertson, Linden, Newark, N. J. Valve. No. 1,343,490; June 15; v. 275; p. 484.
Alexander, Andrew M. Nortonville, assignor of one-half to E. P. Alexander, Dawson Springs, Ky. Gearing. No. 1,343,189; June 15; v. 275; p. 427.
Alexander, Emot P. (See Alexander, Andrew M., assignor.
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Molding hollow bodies. No. 1,343,191; June 15; v. 275; p. 427.
Allen, S. L. & Co., Inc. (See Bowen, James M., assignor.)
Alicando, Frank. (See Coletta, Luigi, assignor.)
Allend, Joseph. Philadelphia, Pa. Vehicle-tire. No. 1,343,540; June 15; v. 275; p. 494.
Allison, Philip W. (See Sprague, F. D., and Allison.)
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Air-back for stokers. No. 1,343,702; June 15; v. 275; p. 526.
Alvis, Gordon. (See Thomson, R. A., and Alvis.)
American Arch Company. (See Willett, Alfred H., assignor.)
American Brake Company, The. (See Wahlert, Henry A., assignor.)
American Can Company. (See Kenny, William J., assignor.)
American Engineering Company. (See Alpern, Maxwell, assignor.)
American Optical Company. (See Day, George H., assignor.)
American Refrigeration Company, The. (See Willsie, Henry E., assignor.) (Reissue.)
American Telephone and Telegraph Company. (See Carson, John R., assignor.)
American Thread Company, The. (See Wild, J. E., and Caldwell, assignors.)
American Trona Corporation. (See Morse, Harry W., assignor.)
Anaconda Copper Mining Company. (See Elton, J. O., and Caples, assignors.)
Anderson, Charles E., assignor of one-half to F. Thunberg, Sacramento, Calif. Counterbalanced pump. No. 1,343,427; June 15; v. 275; p. 472.
Anderson, David. (See Scott-Snell, Charles, assignor.)
Arbon, Paul, Tulsa, Okla. Swivel-jar socket. No. 1,343,541; June 15; v. 275; p. 494.
Arbon, Paul, Tulsa, Okla. Spring-swivel-jar socket. No. 1,343,542; June 15; v. 275; p. 494.
Arbuthnot, John, Victoria, British Columbia, Canada, assignor to P. N. Furber, New York, N. Y. Ship. No. 1,343,491; June 15; v. 275; p. 484.
Armstrong Bros. Tool Co. (See Fletcher, Joseph C., assignor.)
Armstrong, John E., Newcastle-upon-Tyne, England. Automatic drain and pressure-relief valve. No. 1,343,382; June 15; v. 275; p. 463.
Aspromet Company. (See Robertson, Harold H., assignor.)
Atwood, A. L. (See Parmenter, Brady, assignor.)
Auto Dimmer Company, The. (See Patton, Oliver C., assignor.)
Automatic Electric Company. (See Blessing, John G., assignor.)
Automatic Electric Company. (See Mellinger, Edward A., assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Austin, Herbert, Bromsgrove, England. Wheel-caster. No. 1,343,758; June 15; v. 275; p. 538.
Baller, Otto P., Memphis, Tenn. Cluster-back for jewelry. No. 1,343,246; June 15; v. 275; p. 437.
Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)
Ballou, B. A., & Company. (See Stafford, Rogers T., assignor.)
Banner Machine Company, The. (See Major, W. R., and Grove, assignors.)
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-handling machine. No. 1,343,608; June 15; v. 275; p. 507.
Barrett, James, New York, N. Y. Shaving kit. No. 1,343,703; June 15; v. 275; p. 527.
Barrows, Harrington S., Cleveland, Ohio. Liquid-receptacle. No. 1,343,299; June 15; v. 275; p. 447.
Basler, George, assignor to H. W. Becker, Brockton, Mass. Apparatus for cutting heel-lifts. No. 1,343,759; June 15; v. 275; p. 538.
Bassett, Millard E., Pontiac, Mich. Locking device for motor-vehicles. No. 1,343,609; June 15; v. 275; p. 508.
Bassford, William K. (See MacDowall, John L., assignor.)
Baughman, Benjamin F., Columbus, Ohio. Internal-combustion engine. No. 1,343,863; June 15; v. 275; p. 559.
Baumgartner, Charles B., Manchester, Iowa. Fencepost. No. 1,343,543; June 15; v. 275; p. 495.
Baumgartner, Charles B., Manchester, Iowa. Fencepost. No. 1,343,544; June 15; v. 275; p. 495.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,343,610; June 15; v. 275; p. 508.
Beaudette, Telesphore. (See Gendreau, Auguste, assignor.)
Beck, Rudolph H. and R. J., Philadelphia, Pa. Toric-lens-grinding machine. No. 1,343,492; June 15; v. 275; p. 484.
Beck, Rudolph J. (See Beck, Rodolph H. and R. J.)
Beck, William O., Ridgefield N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Casing and support for electrical apparatus. No. 1,343,880; June 15; v. 275; p. 562.
Becker, Harry W. (See Basler, George, assignor.)
Becker, John, Malvern, Ohio. Pipe-turner. No. 1,343,300; June 15; v. 275; p. 447.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,343,888; June 15; v. 275; p. 564.
Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Copying or enlarging camera. No. 1,343,889; June 15; v. 275; p. 564.
Beebee, Lewis, and F. Bowers, assignors, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich. Boiler-cleaner. No. 1,343,654; June 15; v. 275; p. 517.
Bell, George, Concord Junction, Mass. Yarn-catcher for spinning-machines. No. 1,343,704; June 15; v. 275; p. 527.
Bemisderfer, Harvey O. (See Pfeil, E. C., and Bemisderfer.)
Bennett, George H., assignor to Gilbert Gilkes & Company, Limited, Kendal, England. Apparatus for soldering sheet-metal vessels. No. 1,343,493; June 15; v. 275; p. 484.
Berger, George O., Philadelphia Pa. Testing apparatus. No. 1,343,611; June 15; v. 275; p. 508.
Bergiann, Christian J., Seattle, Wash. Stove. No. 1,343,341; June 15; v. 275; p. 455.
Bernz, Otto, Newark, N. J. Cleaner for blow-torch nozzles and the like. No. 1,343,705; June 15; v. 275; p. 527.
Berry, Clarence C., Valley Park, Mo. Airship. No. 1,343,428; June 15; v. 275; p. 472.
Berryhill, Samuel A., and I. W. Woolley, Charlotte, N. C. Automobile-lock. No. 1,343,807; June 15; v. 275; p. 547.

Betz, Charles A., Jersey City, N. J. Sheet-metal door or partition construction. No. 1,343,545; June 15; v. 275; p. 495.

Bielitz, Frederick W., Jersey City, N. J. Safety device for use in cleaning windows. No. 1,343,546; June 15; v. 275; p. 495.

Bilello, Thomas W., Long Island City, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-cutting die. No. 1,343,383; June 15; v. 275; p. 463.

Bills, George M., Battle Creek, Mich. Fastener. No. 1,343,301; June 15; v. 275; p. 447.

Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Lock for automobile-steering devices. No. 1,343,192; June 15; v. 275; p. 427.

Blackburn, Jasper, Webster Groves, Mo. Expanding screw-anchor. No. 1,343,384; June 15; v. 275; p. 464.

Blackburn Patent Steering Wheel Company, The. (See Blackburn, Jasper, assignor.)

Blackstone International Corporation. (See Pine, James A. W., assignor.)

Blaich, Alfred O., Company. (See Ferguson, T. R., and Larson, assignors.)

Blessing, John G., Chicago, Ill., assignor to Automatic Electric Company. Phonographic time-announcer. No. 1,343,302; June 15; v. 275; p. 447.

Blewer, Fred, Port Blakely, Wash. Log-rafting apparatus. No. 1,343,429; June 15; v. 275; p. 472.

Bolger, Robert S., Richmond Hill, assignor to International Motor Company, New York, N. Y. Generator set. No. 1,343,494; June 15; v. 275; p. 485.

Bolton, John T., assignor of one-half to The Forsyth Dyeing Co., New Haven, Conn. Web stretching and guiding device. No. 1,343,385; June 15; v. 275; p. 464.

Bomberg, Julius E., Detroit, Mich. Molding-machine. No. 1,343,386; June 15; v. 275; p. 464.

Bone, Roberto C., Managua, Nicaragua, assignor of one-half to Esteva-Ruiz & Co., New York, N. Y. Substitute for turpentine and making same. No. 1,343,387; June 15; v. 275; p. 464.

Bonham, Guy L., West Hartford, Conn. Car-mover. No. 1,343,430; June 15; v. 275; p. 472.

Borgner, Conrad W., Lowville, N. Y. Sanitary closure for bottles. No. 1,343,760; June 15; v. 275; p. 538.

Born, Louis A., Washington, D. C. Engine. No. 1,343,612; June 15; v. 275; p. 508.

Bourne, Theodore F., Upper Montclair, N. J. Priming means for internal-combustion engines. No. 1,343,547; June 15; v. 275; p. 496.

Bowen, James M., Cape May Court House, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,343,303; June 15; v. 275; p. 447.

Bowers, Frank. (See Beebee, L., and Bowers.)

Bowman, Newton K. (See Dillon, James F., assignor.)

Boyd, James H., assignor to Whitin Machine Works, Whitinsville, Mass. Yarn-tension. No. 1,343,388; June 15; v. 275; p. 464.

Boysen, Iwer, New York, N. Y. Retouching-screen. No. 1,343,613; June 15; v. 275; p. 509.

Branham, Oscar S., Roswell, N. Mex. Weather-strip. No. 1,343,304; June 15; v. 275; p. 447.

Brahin, John E., San Lorenzo, Calif. Pipe-clamp. No. 1,343,548; June 15; v. 275; p. 496.

Bray, Charles E., Monroe, Iowa. Disk-sharpener. No. 1,343,342; June 15; v. 275; p. 455.

Brendle, Frank F., assignor of one-third to Roy C. Carruthers and one-third to M. Carruthers, Salina, Kans. Direction-indicator for vehicles. No. 1,343,761; June 15; v. 275; p. 538.

Brennan, John S., Milwaukee, Wis. Fuel-reservoir. No. 1,343,343; June 15; v. 275; p. 455.

Brophy, John P., Cleveland Heights, Ohio. Automatic machine. No. 1,343,344; June 15; v. 275; p. 455.

Brower, Harry E. (See Crim, J. E., and Brower.)

Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,343,345; June 15; v. 275; p. 456.

Brumme, Frank J., Cooksville, Ill. Automatic governor. No. 1,343,808; June 15; v. 275; p. 548.

Buckley, William J., East Orange, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Magnetic-flame welding-machine. No. 1,343,346; June 15; v. 275; p. 456.

Buell, Benjaman J., Reading, Pa. Car-wheel skid-shoe. No. 1,343,614; June 15; v. 275; p. 509.

Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Piping. No. 1,343,706; June 15; v. 275; p. 527.

Burton, Isaac F., Philadelphia, Pa. Friction-support for lids. No. 1,343,347; June 15; v. 275; p. 456.

Burton, William M. (See Humphreys, R. E., and Burton.)

Busch-Sulzer Bros.-Diesel Engine Company. (See Müller, Jakob, assignor.)

Buss, Adolph W., Quincy, Ill. Interchangeable road-sign. No. 1,343,247; June 15; v. 275; p. 437.

Buswell, Walter, assignor to Stokes & Smith Company, Philadelphia, Pa. Box-covering blank. No. 1,343,193; June 15; v. 275; p. 428.

Calderwood, James W., Washington, D. C. Cornet. No. 1,343,883; June 15; v. 275; p. 563.

Caldwell, Clifford A., Pittsburgh, Pa. Steering-rod for automobiles. No. 1,343,305; June 15; v. 275; p. 448.

Caldwell, William W. (See Wild, J. E., and Caldwell.)

California Alkali Company. (See Hirschkind, Wilhelm, assignor.)

Camporini, August, and J. Rena, Chicago, Ill. Spark-plug changer. No. 1,343,348; June 15; v. 275; p. 456.

Candy, Albert M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,194; June 15; v. 275; p. 428.

Canty, Patrick M., Altoona, Pa. Flue-extractor. No. 1,343,431; June 15; v. 275; p. 473.

Caples, Russell B. (See Elton, J. O., and Caples.)

Caralum, Stanley, Melrose Park, Ill. Key-guard. No. 1,343,615. June 15; v. 275; p. 509.

Carns, Edmund B., Detroit, Mich. Aircraft. No. 1,343,707; June 15; v. 275; p. 528.

Carruthers, Myrtle, *et al.* (See Brendle, Frank F., assignor.)

Carruthers, Roy C., *et al.* (See Brendle, Frank F., assignor.)

Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,306; June 15; v. 275; p. 448.

Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,307; June 15; v. 275; p. 448.

Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,308; June 15; v. 275; p. 448.

Carstens, Frank P. (See Simpson, E. G., Schmidt, and Carstens.)

Carter, Walter L., Ontario, Calif. Convertible automobile-body. No. 1,343,655; June 15; v. 275; p. 517.

Cary Manufacturing Co. (See Ragona, Vincent, assignor.)

Caspe, Samuel, Des Moines, Iowa. Stock and poultry fountain and feeder. No. 1,343,349; June 15; v. 275; p. 457.

Cathrill, Jack, assignor of one-half to L. R. Fenn, Los Angeles, Calif. Electric lamp. No. 1,343,309; June 15; v. 275; p. 448.

Cavers, Thomas W., Copperhill, Tenn., assignor to Garrard-Cavers Corporation, New York, N. Y. Smelting lead and like ores and products. No. 1,343,656; June 15; v. 275; p. 517.

Cederstrom, Bror E., Detroit, Mich., assignor to Morgan & Wright. Governor. No. 1,343,389; June 15; v. 275; p. 465.

Central Railway Signal Company. (See Pfiel, E. C., and Bemisdefer, assignors.)

Chadwick, William M., Oklahoma, Okla. Massage device. No. 1,343,432; June 15; v. 275; p. 473.

Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y. Separator for storage batteries. No. 1,343,708; June 15; v. 275; p. 528.

Chapin, Harold C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Forming manganese peroxid. No. 1,343,390; June 15; v. 275; p. 465.

Champion, John J., and T. B. Martindale, assignors to Champion Manufacturing Co., Philadelphia, Pa. Apparauts for reboring and reaming cylinders of engines. No. 1,343,517; June 15; v. 275; p. 489.

Champion Manufacturing Co. (See Champion, J. J., and Martindale, assignors.)

Chapman, Earle E., Los Angeles, Calif. Vehicle-shackle. No. 1,343,709; June 15; v. 275; p. 528.

Charles, Frederick W., Seattle, Wash. Level-indicator and inclinometer. No. 1,343,657; June 15; v. 275; p. 517.

Chilton, Henry J., Chicago, Ill. Disappearing handle for suitcases, valises, and the like. No. 1,343,195; June 15; v. 275; p. 428.

Chism, William J., Cleveland, Ohio. Traction device. No. 1,343,658; June 15; v. 275; p. 517.

Christen, Victor H., Toledo, Ohio. Windshield-wiper. No. 1,343,310; June 15; v. 275; p. 449.

Christensen, Ingermarie, Seattle, Wash. Bedspread. No. 1,343,881; June 15; v. 275; p. 563.

Christin, Louis, Geneva, Switzerland. Construction of concrete floorings and non-sonorous ceilings. No. 1,343,659; June 15; v. 275; p. 518.

Christopher, Arthur B., assignor to The Measuregraph Company, St. Louis, Mo. Calculator. No. 1,343,660; June 15; v. 275; p. 518.

Churchill, Clifford, Kansas City, Mo. Bank-check. No. 1,343,762; June 15; v. 275; p. 538.

Ciaccia, Michael, Albany, N. Y. Back-draft-preventing chimney-cowl. No. 1,343,763; June 15; v. 275; p. 538.

Clark, Edwin C., Delano, Calif. Automobile-signal. No. 1,343,248; June 15; v. 275; p. 438.

Clark, Harry R., Golden City, Mo. Vertically-adjustable hand-truck. No. 1,343,864; June 15; v. 275; p. 559.

Clifford, William Oxley, Wolverhampton, assignor to Jones & Attwood, Limited, Amblecote, Stafford, England. Separation and settlement of solids and matters from sewage and other liquids. No. 1,343,764; June 15; v. 275; p. 539.

Coburn, Samuel, Birmingham, Ala. Sand-blast tumbler. No. 1,343,350; June 15; v. 275; p. 457.

Cocksedge, Herbert E. (See Freeth, F. A., and Cocksedge.)

Colesby, Joseph. (See Woodward, John J., assignor.)

Coletta, Luigi, assignor of thirty-five one-hundredths to F. Alicandro, Columbus, Ohio. Aeroplane. No. 1,343,433; June 15; v. 275; p. 473.

Collins, Edward W., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Stacking-pin. No. 1,343,251; June 15; v. 275; p. 457.

Collord, George L., Pittsburgh, Pa. Treating ores. No. 1,343,249; June 15; v. 275; p. 438.

Collord, George L., Pittsburgh, Pa. Treating ores. No. 1,343,250; June 15; v. 275; p. 438.

Comer, John H., Liberty Hill, Tex. Silo. No. 1,343,809; June 15; v. 275; p. 548.

Compagnie D'Applications Mechaniques. (See Rouanet, Louis, assignor.)

Compagnie des Produits Chimiques d'Alais et de la Camargue. (See Guyot, Alfred, assignor.)

Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,343,196; June 15; v. 275; p. 428.

Cook, David, Lynn Valley, British Columbia, Canada. Wire-rope carriage. No. 1,343,434; June 15; v. 275; p. 473.

Cory, Harvey, Long Beach, assignor to E. F. Kline, Los Angeles, Calif. Air-control device for the air-inlets of carburetors. No. 1,343,311; June 15; v. 275; p. 449.

Costelloe, Clinton, and S. G. Stoll, El Paso, Tex. Automobile-radiator. No. 1,343,352; June 15; v. 275; p. 457.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Court, Leonard, Birmingham, England. Work-holding attachment for milling threads. No. 1,343,435; June 15; v. 275; p. 473.

Cowan Truck Company. (See Fairchilds, George R., assignor.)

Crear, James, Chicago, Ill. Bicycle. No. 1,343,616; June 15; v. 275; p. 509.

Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,343,765; June 15; v. 275; p. 539.

Crim, Joseph E., and H. E. Brower, Decatur, Ill. Gear-puller. No. 1,343,661; June 15; v. 275; p. 518.

Cruikshank, J. W., Engineering Company. (See Cruikshank, James W., assignor.)

Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Apparatus for supplying and grading abrasives to glass-grinding machines. No. 1,343,710; June 15; v. 275; p. 528.

Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Supplying and grading sand to glass-grinding machines. No. 1,343,711; June 15; v. 275; p. 528.

Culberson, Alonzo A., Topeka, Kans. Resilient tire. No. 1,343,766; June 15; v. 275; p. 539.

Curry, William J., Nettleton, Miss. Muck-shoe. No. 1,343,436; June 15; v. 275; p. 473.

Cushion Spring Engineering Corporation. (See Hunt, Ozello R., assignor.)

Cuzen, Robert L., Plainfield, N. J. Phonograph-lamp attachment. No. 1,343,767; June 15; v. 275; p. 539.

Dalby, John, Pawtucket, R. I. Bobbin-winding machine. No. 1,343,768; June 15; v. 275; p. 539.

Danckwardt, Paul, Denver, Colo. Producing anhydrous aluminum chlorid. No. 1,343,662; June 15; v. 275; p. 518.

Danyluk, Iwan, Weimar, Tex. Collapsible bench. No. 1,343,810; June 15; v. 275; p. 548.

Daum, William T., Oak Park, Ill. Automobile-trailer. No. 1,343,197; June 15; v. 275; p. 428.

Davenport, Arthur A., Lockport, N. Y. Drop-box loom. No. 1,343,663; June 15; v. 275; p. 519.

Davidson, Clinton J., Berkeley, Calif. Slide-rule. No. 1,343,549; June 15; v. 275; p. 496.

Davis-Bournonville Company. (See Buckley, William J., assignor.)

Davis, Glenn L., Burrton, Kans. Aeroplane-brake. No. 1,343,769; June 15; v. 275; p. 540.

Davis, Virginia, New York, N. Y. Clothespin. No. 1,343,496; June 15; v. 275; p. 485.

Davis, Virginia, New York, N. Y. Key-ring. No. 1,343,495; June 15; v. 275; p. 485.

Daw, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,343,437; June 15; v. 275; p. 474.

Dayton Engineering Laboratories Company, The. (See Schwarz, Elmer H., assignor.)

De Camp, James W. (See Reynolds, Delbert J., assignor.)

Deibert, William E., Reading, Pa. Cylinder-lock. No. 1,343,438; June 15; v. 275; p. 474.

De Laval Separator Company, The. (See Leitch, Meredith, assignor.)

Delume, Mrs., *et al.* (See Motte, Charles M., assignor.)

Demarest, Thomas W., Fort Wayne, Ind. Automatic drain-valve. No. 1,343,550; June 15; v. 275; p. 496.

Denison, George W., Cleveland, Ohio. Wall construction. No. 1,343,312; June 15; v. 275; p. 449.

Denman, Hugh E., Harwood, Tex. Fork. No. 1,343,811; June 15; v. 275; p. 548.

Des Molineaux, Alfred V., Denver, Colo. Detachable heel. No. 1,343,353; June 15; v. 275; p. 457.

Desoutter, Leon C., London, England. Artificial leg. No. 1,343,617; June 15; v. 275; p. 509.

Dettman, Max, San Francisco, Calif. Match-box holder. No. 1,343,354; June 15; v. 275; p. 457.

Diamond Power Specialty Company. (See Beebee, L., and Bowers, assignors.)

Dickerson, Malcolm, Belleville, N. J., assignor of one-half to Societe Anonyme des Anciens Etablissements, C. & E. Chanal Freres & Cie., Brooklyn, N. Y. Machine for dyeing fur-skins. No. 1,343,355; June 15; v. 275; p. 458.

Dickerson, Marshal S., Cleveland Ranch, Nev. Gasolene automobile-tank. No. 1,343,812; June 15; v. 275; p. 548.

Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Factory, Chicago, Ill. Compasses. No. 1,343,664; June 15; v. 275; p. 519.

Dietzgen, Eugene, Company, Factory. (See Dieckmann, Carl F., assignor.)

Dillon, James F., Crown City, Ohio, assignor to N. K. Bowman, North Lawrence, Ohio. Cable-splice. No. 1,343,251; June 15; v. 275; p. 438.

Doe, Joseph S., Burnham, Ill. Metallic foot-mat. No. 1,343,356; June 15; v. 275; p. 458.

Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Side-frame arrangement. No. 1,343,618; June 15; v. 275; p. 509.

Dolbear, Samuel H., San Francisco, Calif., assignor to Minerals Separation North American Corporation. Process and apparatus for concentrating ores or other materials. No. 1,343,313; June 15; v. 275; p. 449.

Dooley, Joseph R., Mobile, Ala. Railway-tie. No. 1,343,813; June 15; v. 275; p. 549.

Dooley, Joseph R., Mobile, Ala. Crosstie. No. 1,343,814; June 15; v. 275; p. 549.

Dostal, John R., assignor to H. Scarborough, Milwaukee, Wis. Fruits and vegetable pulping machine. No. 1,343,439; June 15; v. 275; p. 474.

Downing, Samuel J., and F. A. Sutherland, Millinocket, Me. Ice-cream-cone-holder insert for bags. No. 1,343,252; June 15; v. 275; p. 438.

Downs, George F., and H. F. Miller, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Port construction for metallurgical furnaces. No. 1,343,314; June 15; v. 275; p. 449.

Downs, George F., and H. F. Miller, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Port construction for metallurgical furnaces. No. 1,343,315; June 15; v. 275; p. 450.

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Dunhill, Alfred, London, and T. G. Mandeville, Arnold, England. Tobacco-pipe, cigar-holder, and the like. No. 1,343,253; June 15; v. 275; p. 438.

Dunlop Rubber Company, The. (See Macbeth, Colin, assignor.)

Dunn, William, Elk, Wyoming. Gearless variable-speed transmission. No. 1,343,254; June 15; v. 275; p. 438.

Duparquet, Hout & Monense. (See Rice, Anson S., assignor.)

Durdle, Oswald, assignor to Osram-Robertson Lamp Works Limited, London, England. Means for supporting electrodes in ionic tubes. No. 1,343,551; June 15; v. 275; p. 496.

Durr, Ernest, U. S. Navy. Rotary internal-combustion engine. No. 1,343,316; June 15; v. 275; p. 450.

Earle, H. S., Manufacturing Co. (See Earle, Horatio S., assignor.)

Earle, Horatio S., assignor to H. S. Earle Manufacturing Co., Detroit, Mich. Handle for tools. No. 1,343,552; June 15; v. 275; p. 497.

Eastman Kodak Company. (See Becker, Joseph, assignor.)

Eastman Kodak Company. (See Parkinson, William J., assignor.)

Eastman Kodak Company. (See Snyder, Lloyd E., assignor.)

Easting, Charles A., Birmingham, England. Wind-screen for motorcycle side cars. No. 1,343,440; June 15; v. 275; p. 474.

Eaton, Charles F., Jr., New York, N. Y. Average-speed meter. No. 1,343,198; June 15; v. 275; p. 428.

Eaton, Joseph E., San Francisco, Calif. Wire-fence stay. No. 1,343,770; June 15; v. 275; p. 540.

Eccleston, Charles W., Los Angeles, Calif. Riffled pneumatic concentrating-table for gravitational separation of comminuted material. No. 1,343,497; June 15; v. 275; p. 485.

Eggers, Anton C., Brooklyn, N. Y., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Pneumatic cushion. No. 1,343,357; June 15; v. 275; p. 458.

Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Marine turbine installation. No. 1,343,665; June 15; v. 275; p. 519.

Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Heat-conserving apparatus. No. 1,343,666; June 15; v. 275; p. 519.

Ellard, Jefferson, Texhoma, Okla. Aeroplane. No. 1,343,498; June 15; v. 275; p. 486.

Ellis, Carleton, Montclair, N. J. Treating fatty oils. No. 1,343,255; June 15; v. 275; p. 439.

Elton, James O., Great Falls, and R. B. Caples, Cascade, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Treating residues containing zinc, copper, and cadmium. No. 1,343,619; June 15; v. 275; p. 510.

Eras, Vincent J. M., and H. J. J. M. Llps, Dordrecht, Netherlands. Fixing device of cylinder-locks. No. 1,343,712; June 15; v. 275; p. 529.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,199; June 15; v. 275; p. 429.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,200; June 15; v. 275; p. 429.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,201; June 15; v. 275; p. 429.

Eschholz, Otto H., Wilkinsburg, and H. Fahnoe, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electric-arc-welding system. No. 1,343,202; June 15; v. 275; p. 429.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,203; June 15; v. 275; p. 429.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,204; June 15; v. 275; p. 429.

Eschholz, Otto H., Wilkinsburg, and H. Fahnoe, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Alternating-current welding system. No. 1,343,205; June 15; v. 275; p. 430.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,206; June 15; v. 275; p. 430.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,207; June 15; v. 275; p. 430.

Essex Motors. (See Fekete, Stephen L., assignor.)

Esteva-Ruiz & Co. (See Bone, Roberto C., assignor.)

Evensen, Carl, Seabold, Wash. Bolting-up device. No. 1,343,667; June 15; v. 275; p. 519.

Ewing, Charles E., Lincoln, Nebr. Soap-dispensing device. No. 1,343,815; June 15; v. 275; p. 549.

Fahnoe, Hans. (See Eschholz, O. H., and Fahnoe.)

Fahnoe, Hans, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,208; June 15; v. 275; p. 430.

Faichney, George H., Watertown, N. Y., assignor to The Randall-Faichney Company, Boston, Mass. Work-supporting table. No. 1,343,553; June 15; v. 275; p. 497.

Fairchilds, George R., Holyoke, Mass., assignor to Cowan Truck Company. Motor-driven-vehicle construction. No. 1,343,358; June 15; v. 275; p. 458.

Farup, Peder, assignor to Titan Co. A/S. of Norway, Christiania, Norway. Producing titanium compounds. No. 1,343,441; June 15; v. 275; p. 474.

Federal Sugar Refining Company. (See Reinhardt, James H., assignor.)

Fekete, Stephen L., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Internal-combustion engine. No. 1,343,668; June 15; v. 275; p. 520.

Fenn, Libbie R. (See Cathrill, Jack, assignor.)

Ferguson, Robert F., Detroit, Mich. Lamp-bracket. No. 1,343,499; June 15; v. 275; p. 486.

Ferguson, Thomas R., and E. L. Larson, Chicago, Ill., assignors to Alfred O. Blaich Company. Carbonizing steel. No. 1,343,359; June 15; v. 275; p. 458.

Fesler, Douglas F., Evanston, assignor to Hedman Manufacturing Company, Chicago, Ill. Check. No. 1,343,865; June 15; v. 275; p. 560.

Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selectively-operated circuit-controlling device. No. 1,343,256; June 15; v. 275; p. 439.

Fischer, William F., Philadelphia, Pa. Machine for forming grooves. No. 1,343,554; June 15; v. 275; p. 497.

Fletcher, Joseph C., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Tool-holder. No. 1,343,257; June 15; v. 275; p. 439.

Flurscheim, Bernhard J., assignor to Aetna Explosives Company, Inc., New York, N. Y. Stabilizing nitrostarch. No. 1,343,317; June 15; v. 275; p. 450.

Formby, George M., Jacksonville, Fla. Firearm. No. 1,343,444; June 15; v. 275; p. 475.

Forse, William H., Jr., Anderson, Ind. Window-shade hanger. No. 1,343,771; June 15; v. 275; p. 540.

Forsyth Dyeing Co., The. (See Bolton, John T., assignor.)

Franklin, Iva A., and S. E. Mangum, Moody, Tex. Cultivator-tongue. No. 1,343,258; June 15; v. 275; p. 439.

Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Controlling mechanism for player-pianos and the like. No. 1,343,442; June 15; v. 275; p. 475.

Fredrickson, Carl G., Waltham, Mass. Engine-primer. No. 1,343,555; June 15; v. 275; p. 497.

Freeth, Francis A., Sandiway, and H. E. Cocksedge, London, England. Removal of sodium sulfate from solution. No. 1,343,443; June 15; v. 275; p. 475.

French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)

Friedman, Bernhard, New York, and S. Friedman, Brooklyn, N. Y. Tumbling apparatus for furs. No. 1,343,816; June 15; v. 275; p. 549.

Friedman, Jack, New York, N. Y. Wood and metal polish. No. 1,343,259; June 15; v. 275; p. 439.

Friedman, Samuel. (See Friedman, Bernard and S.)

Frost, Robert T., St. Paul, Minn., assignor of one-half to A. E. Johnson, Waterloo, Iowa. Package-opening means. No. 1,343,360; June 15; v. 275; p. 458.

Fuller, Clarence W., Yonkers, N. Y. Dental massage and polishing appliance. No. 1,343,713; June 15; v. 275; p. 529.

Funderburk, Otis C., Detroit, Mich., assignor to Murray & Tregurtha Company, Boston, Mass. Oil-cooling apparatus. No. 1,343,669; June 15; v. 275; p. 520.

Furber, Percy N. (See Arbuthnot, John, assignor.)

Gaffers, Herman B., Watervliet, N. Y. Brace or knee. No. 1,343,445; June 15; v. 275; p. 475.

Gainer, Simon, Chicago, Ill. Sectional spring. No. 1,343,620; June 15; v. 275; p. 510.

Gans, Robert S., New York, N. Y. Loading-indicator for vehicles. No. 1,343,556; June 15; v. 275; p. 497.

Garred-Cavers Corporation. (See Cavers, Thomas W., assignor.)

Garver, Charles W., Ashland, Ohio. Fountain-pen cleaner. No. 1,343,621; June 15; v. 275; p. 510.

Gay, William B. D., Brookline, Mass. Ordnance device. No. 1,343,557; June 15; v. 275; p. 498.

Gellis, Samuel, New York, N. Y. Combination ladder and ironing-table. No. 1,343,500; June 15; v. 275; p. 486.

Gendreau, Auguste, assignor of one-half to T. Beaudette, Bemidji, Minn. Logging car or sleigh. No. 1,343,772; June 15; v. 275; p. 540.

General Ceramics Company. (See Scharl, John, assignor.)

Gerke, Joseph and N., and E. C. Williams, Milwaukee, Wis. Indicator for automobiles. No. 1,343,361; June 15; v. 275; p. 459.

Gerke, Nicholas. (See Gerke, J. and N., and Williams.)

Giffin, John M. (See Roberts, F., and Giffin.)

Gilbert, Fred B., Modesto, Calif. Feeding device. No. 1,343,817; June 15; v. 275; p. 549.

Gilkes, Gilbert, & Company, (Ltd.) (See Bennett, George H., assignor.)

Glaudel, George, Los Angeles, Calif. Auxiliary windshield. No. 1,343,318; June 15; v. 275; p. 450.

Goddard, Joseph, assignor to Seneca Camera Mfg. Co., Rochester, N. Y. Plate-holder for photographic cameras. No. 1,343,773; June 15; v. 275; p. 541.

Goeke, George A., Waukon, Iowa. Compression-release. No. 1,343,501; June 15; v. 275; p. 486.

Golden, Abe, *et al.* (See Scholes, Edmond P., assignor.)

Goldschmidt, Victor M. (See Neilsen, R., and Goldschmidt.)

Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Pigment containing titanium-oxygen compound. No. 1,343,447; June 15; v. 275; p. 475.

Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Pigment and its manufacture. No. 1,343,446; June 15; v. 275; p. 475.

Goldsmith, L., & Son. (See Osterweil, Sydney, assignor.)

Goldsmith, Mary L., The Plains, Va. Corn-thinner. No. 1,343,558; June 15; v. 275; p. 498.

Going, William J., Amsterdam, N. Y., assignor, by mesne assignments, to The Klauder-Weldon Dyeing Machine Company, Jenkintown, Pa. Dyeing-machine. No. 1,343,260; June 15; v. 275; p. 439.

Goodman, Samuel, Brooklyn, N. Y. Heating device. No. 1,343,670; June 15; v. 275; p. 520.

Goodyear's India Rubber Glove Manufacturing Company, The. (See Eggers, Anton C., assignor.)

Goss, Charles E. (See Goss, George W., and C. E.)

Goss, George W., and C. E., Baltimore, Md. Farm-gate. No. 1,343,559; June 15; v. 275; p. 498.

Gould Coupler Company. (See Creveling, John L., assignor.)

Gould, Edwin J., Fruitvale, Calif. Shock-absorbing wheel. No. 1,343,774; June 15; v. 275; p. 541.

Gould Storage Battery Co. (See Chamberlain, Rufus N., assignor.)

Grabe, Georg, Nikolassee, near Berlin, Germany, assignor to Siemens & Halske, A. G., Berlin, Germany. Telephone system. No. 1,343,714; June 15; v. 275; p. 529.

Graham, Edward A., Brockley, London, England. Electrical signaling or indicating apparatus especially applicable for signaling orders and numerical data. No. 1,343,362; June 15; v. 275; p. 459.

Grammich, Frank, Brooklyn, N. Y. Shelf. No. 1,343,818; June 15; v. 275; p. 549.

Graske, August, Omaha, Nebr. Grip for bow-ties. No. 1,343,623; June 15; v. 275; p. 510.

Green, Van Ness. (See Johnson, A. B., and Green.)

Greene, Lemuel A., Greenville, S. C. Motor-driven agricultural machine. No. 1,343,860; June 15; v. 275; p. 560.

Grenci, Bruno, Clifton City, N. J. Fluid-pipe coupling. No. 1,343,819; June 15; v. 275; p. 550.

Grenzfelder, Julius M., St. Louis, Mo. Quick-adjustable screw-wrench. No. 1,343,448; June 15; v. 275; p. 475.

Greer, James H., Robinson, Kans. Trap. No. 1,343,502; June 15; v. 275; p. 486.

Griffiths, William U., Philadelphia, Pa. Safety device for operating flush-tank valves. No. 1,343,261; June 15; v. 275; p. 440.

Grimm, Clayford T., Adrian, W. Va. Tie-plate. No. 1,343,262; June 15; v. 275; p. 440.

Grove, Frank H. (See Major, W. R., and Grove.)

Grove, George H., Harrisburg, Pa. Automatic self-closing funnel. No. 1,343,867; June 15; v. 275; p. 560.

Grove, Otto K., Netawaka, Kans. Scoop-gate and clip therefor. No. 1,343,263; June 15; v. 275; p. 440.

Groves, Charles H., Beaumont, Tex. Shocker. No. 1,343,775; June 15; v. 275; p. 541.

Gruss, Lucien R., assignor to Pneumatic Cushion Company, San Francisco, Calif. Air-spring. No. 1,343,560; June 15; v. 275; p. 498.

Gunji, Hansuke, *et al.* (See Toda, Tomokichi, assignor.)

Guyot, Alfred, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Salindres, France. Preparation of acetic aldehyde from acetylene. No. 1,343,715; June 15; v. 275; p. 529.

Guyot, Alfred, Salindres, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Paris, France. Preparation of trichlorethylene from tetrachlorethane. No. 1,343,716; June 15; v. 275; p. 529.

Gwinn, George W., New York, N. Y. Machine for applying stamps, labels, or sealing-strips to containers. No. 1,343,264; June 15; v. 275; p. 440.

Gwyer, Herbert J., Yonkers, N. Y. Corner connection for cabinets. No. 1,343,209; June 15; v. 275; p. 430.

Haas, Daniel A., Belleville, Ill. Shock-holder. No. 1,343,624; June 15; v. 275; p. 510.

Haas, Geo., & Sons. (See Haas, Walter A., assignor.)

Haas, Walter A., assignor to Geo. Haas & Sons, San Francisco, Calif. Package for ice-cream. No. 1,343,391; June 15; v. 275; p. 465.

Hale & Kilburn Corporation. (See Stubblebine, Raymond F., assignor.)

Hall, Francis C., Washington, D. C. Hanger. No. 1,343,363; June 15; v. 275; p. 459.

Hall, Peter P.-G., Philadelphia, Pa. Metal-working machine. No. 1,343,503; June 15; v. 275; p. 486.

Hamill, Charles C, Randsburg, Calif. Ore-feeder. No. 1,343,868; June 15; v. 275; p. 560.

Hamilton, John R., Yonkers, assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Chemical fire-extinguishing apparatus and control device therefor. No. 1,343,364; June 15; v. 275; p. 459.

Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Motor-gong. No. 1,343,365; June 15; v. 275; p. 460.

Hamilton, William F., Ventura, Calif. Corn-header. No. 1,343,884; June 15; v. 275; p. 563.

Hammer, Louis, Olds, Alberta, Canada. Auto pul-out. No. 1,343,625; June 15; v. 275; p. 511.

Hanson, Earl C., Washington, D. C. Telephone apparatus for the deaf. No. 1,343,717; June 15; v. 275; p. 530.

Hardie, R. W., Company. (See Hardie, Robert W., assignor.)

Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air-moistener. No. 1,343,718; June 15; v. 275; p. 530.

Hardnett, Merrellon F., Atlanta, Ga. Spring-fork for bicycles. No. 1,343,820; June 15; v. 275; p. 550.

Hargrave, Russell R., Pasadena, Tex. Railway-crossing shock-absorber. No. 1,343,869; June 15; v. 275; p. 560.

Harley-Mason, Vernon B., Cheam, England. Steam-expansion engine. No. 1,343,449; June 15; v. 275; p. 476.

Harrington, Clinton O., assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,343,719; June 15; v. 275; p. 530.

Harris, Archer H., Barberton, Ohio. Collapsible core. No. 1,343,504; June 15; v. 275; p. 487.

Harris, Ernest G., North Vancouver, British Columbia, Canada. Dry-pipe valve for sprinkler systems. No. 1,343,776; June 15; v. 275; p. 541.

Harris, Isaac, Detroit, Mich. Telltale spark-plug. No. 1,343,626; June 15; v. 275; p. 511.

Hart, Granville M., and J. E. Wall, Plano, Tex. Cotton-chopper. No. 1,343,777; June 15; v. 275; p. 541.

Hart, Raymond S. (See Waltman, Walter M., assignor.)

Hartford Rubber Works Company, The. (See Shea, John J., assignor.)

Hartung, Robert F., Chicago, Ill. Ship construction. No. 1,343,392; June 15; v. 275; p. 465.

Hartwig, William J. (See Collins, Edward W., assignor.)

Haskellite Manufacturing Corporation. (See Haskell, Henry L., assignor.)

Haskell, Henry L., Ludington, assignor to Haskellite Manufacturing Corporation, Grand Rapids, Mich. Boot or shoe sole. No. 1,343,450; June 15; v. 275; p. 476.

Hatch, Edward B., Turley, Okla. Tool for replacing sucker-rods. No. 1,343,821; June 15; v. 275; p. 550.

Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Paper-making machine. No. 1,343,505; June 15; v. 275; p. 487.

Hawkins, Frank, Sittingbourne, England. Spring-button, dross-fastener, and the like. No. 1,343,506; June 15; v. 275; p. 487.

Hays, Caswell V., Dillon, S. C. Tablet. No. 1,343,778; June 15; v. 275; p. 542.

Healy, William P., Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Wire-bound box-blank machine. No. 1,343,561; June 15; v. 275; p. 498.

Hedman Manufacturing Company. (See Fesler, Douglas F., assignor.)

Heiligenstein, Joseph, Altamont, Ill. Box-opener. No. 1,343,627; June 15; v. 275; p. 511.

Heino, John, New York, N. Y. Phonograph-needle. No. 1,343,507; June 15; v. 275; p. 487.

Helsing, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Control means for vacuum-tube circuits. No. 1,343,562; June 15; v. 275; p. 499.

Heller, Jesse B., assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Making bolts. No. 1,343,720; June 15; v. 275; p. 530.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,343,210; June 15; v. 275; p. 431.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and manufacturing Company. System of control. No. 1,343,211; June 15; v. 275; p. 431.

Hensel, George A., Waterville, Wash. Straw-spreader. No. 1,343,265; June 15; v. 275; p. 440.

Herbert, Clarence C., Lincoln, Nebr. Sterilizing-pan. No. 1,343,779; June 15; v. 275; p. 542.

Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-developing apparatus. No. 1,343,671; June 15; v. 275; p. 520.

Herrmann, Oscar, New York, N. Y. Educational device for objective teaching. No. 1,343,721; June 15; v. 275; p. 531.

Hertner Electric Company, The. (See Hertner, John H., assignor.)

Hertner, John H., assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio. Method and apparatus for starting motors. No. 1,343,451; June 15; v. 275; p. 476.

Herzog, John, Saginaw, Mich. Wood-turning machine. No. 1,343,319; June 15; v. 275; p. 450.

Herzog, John, Saginaw, Mich. Warped panel and forming same. No. 1,343,320; June 15; v. 275; p. 451.

Hinkle, Allison, Sedalia, Mo. Rake. No. 1,343,366; June 15; v. 275; p. 460.

Hirschkind, Wilhelm, Pittsburg, assignor to California Alkali Company, San Francisco, Calif. Recovery or purification of potassium salts. No. 1,343,508; June 15; v. 275; p. 487.

Hoe, R., and Co. (See Sheldon, Edward P., assignor.)

Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-burner. No. 1,343,673; June 15; v. 275; p. 521.

Hoffman, Samuel O., assignor of one-third to Albert Abrams, San Francisco, Calif. Method of and apparatus for detecting and observing objects in the dark. No. 1,343,393; June 15; v. 275; p. 465.

Hohmann, Richard K., Sioux City, Iowa. Sewing-machine. No. 1,343,823; June 15; v. 275; p. 550.

Hooper, F. X., Company. (See Mast, John C., assignor.)

Hopkins, Arthur T., Cleveland, Ohio, assignor to The Mechanical Rubber Company. Bulb for tank-valves. No. 1,343,890; June 15; v. 275; p. 564.

Hopkins, Gordon B. (See Knee, A. E., and Hopkins.)

Horiuchi, Hirosuke, Taiwan, Japan. Water-tube boiler. No. 1,343,824; June 15; v. 275; p. 551.

Horn, Guido, Weissensee, near Berlin, Germany. Apparatus for holding the thread tense in circular-braiding machines. No. 1,343,452; June 15; v. 275; p. 476.

Horn, Nicholas, Paterson, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,343,509; June 15; v. 275; p. 488.

Horton, George T. (See Small, Kenneth L., assignor.)

Hosch, Annie M., administrator. (See Hosch, Walter E.)

Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Fabric-cutting device. No. 1,343,722; June 15; v. 275; p. 530.

Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Counter apparatus. No. 1,343,723; June 15; v. 275; p. 531.

Howard, Ira T., Nappanee, Ind. Anticreeper. No. 1,343,563; June 15; v. 275; p. 499.

Howard, James H., Jacksonville, Fla. Dispensing-can closure. No. 1,343,825; June 15; v. 275; p. 551.

Hoymack, Nick, Caledonia, Ontario, Canada. Agricultural implement. No. 1,343,564; June 15; v. 275; p. 499.

Huey, George W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting device for electric motors. No. 1,343,212; June 15; v. 275; p. 431.

Hughes, Benjamin A., Colorado Springs, Colo. Ore-concentrating table. No. 1,343,266; June 15; v. 275; p. 440.

Hulbert, Edwin F., assignor to National Paper Can Company, South Norwalk, Conn. Paper package and closure therefor. No. 1,343,724; June 15; v. 275; p. 531.

Hull, Arthur B., Gasport, N. Y. Spray-gun. No. 1,343,780; June 15; v. 275; p. 542.

Hultman, Gustaf H., Stockholm, Sweden. Manufacturing chrome alum. No. 1,343,725; June 15; v. 275; p. 531.

Humphreys, Robert E., Whiting, Ind., and W. M. Burton, assignors to The Standard Oil Company, Chicago, Ill. Distillation of petroleum-oils. No. 1,343,674; June 15; v. 275; p. 521.

Humphris, Frank, Boscombe, England. Construction of adjustable spanners, wrenches, vises, clamps, pipe-cutters, pipe-grips, and like tools. No. 1,343,826; June 15; v. 275; p. 551.

Hunt, Ozello R., assignor to Cushion Spring Engineering Corporation, Chicago, Ill. Spring structure. No. 1,343,565; June 15; v. 275; p. 499.

Hyatt, John E., and H. J. Moen, Stevens Point, Wis. Coal-chute. No. 1,343,675; June 15; v. 275; p. 521.

Illinois Glass Company. (See Seabold, Walter G., assignor.)

Illinois Tool Works. (See Olson, C. G., and Trbojevich, assignors.)

Improved Paper Machinery Company. (See Haug, Anton J., assignor.)

India Rubber Company, The. (See Weida, Harry, assignor.)

Ingersoll-Rand Company. (See Abrams, Herbert T., assignor.)

Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)

Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingram, Oscar L., Walla Walla, Wash. Demountable rim. No. 1,343,394; June 15; v. 275; p. 465.
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Rice, George L., assignor.)
International Manufacturing Company of Texas. (See Thompson, R. A., and Morris, assignors.)
International Motor Company. (See Bolger, Robert S., assignor.)
International Precipitation Company. (See Schmidt, W. A., and Roberts, assignors.)
International Precipitation Company. (See Schmidt, Walter A.)
Ischinger, Eric, assignor to E. R. Saalmann, Rochester, N. Y. Child's vehicle. No. 1,343,566; June 15; v. 275; p. 499.
Jackson, Edward J., Willcox, Ariz. Self-oiling vehicle-spring. No. 1,343,453; June 15; v. 275; p. 476.
Jacobson, Theodore, Hartford, Conn. Antifriction-bearing. No. 1,343,321; June 15; v. 275; p. 451.
Jak Tire Corporation. (See Jakovleff, Alexis, assignor.)
Jakobson, Max, New York, N. Y. Cup or box. No. 1,343,726; June 15; v. 275; p. 531.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Vehicle-wheel. No. 1,343,567; June 15; v. 275; p. 500.
James, Nephanus E., Birmingham, Ala. Automobile-lock. No. 1,343,870; June 15; v. 275; p. 561.
Jeannet, Lazare P. N., Paris, France. Thermometer operated by the pressure of saturated vapor. No. 1,343,454; June 15; v. 275; p. 447.
Jenkins, Charles F., Washington, D. C. Film-reel. No. 1,343,628; June 15; v. 275; p. 511.
Jennings, Arthur B., New York, N. Y. Air-lift footpiece. No. 1,343,510; June 15; v. 275; p. 488.
Jensen, Agnes M., administratrix. (See Jensen, Rasmus.)
Jensen, Rasmus, deceased, Los Angeles, Calif.; A. M. Jensen administratrix, Carbureter. No. 1,343,455; June 15; v. 275; p. 477.
Johnson, Alfred B., Blooming Grove, and V. Green, Edgerton, Wis. Hog-holder. No. 1,343,213; June 15; v. 275; p. 431.
Johnson, Alfred E. (See Frost, Robert T., assignor.)
Johnson, Charles K., Danube, Minn. Riding attachment for harrows. No. 1,343,827; June 15; v. 275; p. 551.
Johnson, Frederick J., Jersey City, N. J. Means for lifting, lowering, and securing a window-sash. No. 1,343,322; June 15; v. 275; p. 451.
Johnson, William H., *et al.* (See Scholes, Edmond P., assignor.)
Johnston, John S., Etiwanda, Calif. Wedge-fastener for tool-handles. No. 1,343,781; June 15; v. 275; p. 542.
Jones, Allen H., Belleville, N. J. Roller-bearing and making same. No. 1,343,885; June 15; v. 275; p. 563.
Jones & Attwood. (See Clifford, William, assignor.)
Jones, Ernest R. (See Stott, O., and Jones.)
Jones, Harry H., Portland, Oreg. Rifle. No. 1,343,456; June 15; v. 275; p. 477.
Jones, Omar G., Philadelphia, Pa. Car-fender. No. 1,343,727; June 15; v. 275; p. 531.
Jongepier, Jacobus F. G., Schiedam, Netherlands. Office-ledger. No. 1,343,879; June 15; v. 275; p. 562.
Jordan, Daniel, Harrison, Nebr. Gate. No. 1,343,367; June 15; v. 275; p. 460.
Jordan, Robert M., Cooper, Tex. Piston-ring. No. 1,343,828; June 15; v. 275; p. 552.
Kellogg, M. W. Company, The. (See Pratt, William A., assignor.
Kellogg Switchboard and Supply Company. (See Wolf, George D., assignor.)
Kelly, John A. (See Shafer, Frank B., assignor.)
Kelly, William M., Jersey City, N. J. Stock indicating and recording device. No. 1,343,511; June 15; v. 275; p. 488.
Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Ball-end-forming machine. No. 1,343,267; June 15; v. 275; p. 441.
Kepler, Darrell S., Crawfordsville, Ind., assignor of one-half to H. A. Woodworth, Sedalia, Mo. Mixing apparatus for soda-fountains. No. 1,343,829; June 15; v. 275; p. 552.
Kerner Manufacturing Company. (See Heller, Jesse B., assignor.)
Kerr, John W., Los Angeles, Calif. Can cap and seal. No. 1,343,782; June 15; v. 275; p. 542.
Kinch, George E., Quirindi, New South Wales, Australia. Pan-closet cabinet. No. 1,343,830; June 15; v. 275; p. 552.
Kinkel, Gustavus A., Buffalo, N. Y. Pie-pan. No. 1,343,395; June 15; v. 275; p. 466.
Kinsley, Richard F., East Cleveland, Ohio, assignor to The Mechanical Rubber Company. Material for reinforcing rubber articles and making same. No. 1,343,368; June 15; v. 275; p. 461.
Kissinger, George A., San Gabriel, Calif. Cold-chisel. No. 1,343,323; June 15; v. 275; p. 451.
Kitson, Thomas B., Leeds, England. Furnace. No. 1,343,457; June 15; v. 275; p. 477.
Klauder-Weldon Dyeing Machine Company, The. (See Going, William J., assignor.)
Kline, Eugene F. (See Cory, Harvey, assignor.)
Klise, Clayton L., Yankton, S. D. Aerial torpedo. No. 1,343,831; June 15; v. 275; p. 552.
Knee, Albert E., Bluefield, and G. B. Hopkins, Lex, W. Va. Mechanical long-wall coal-loading conveyer. No. 1,343,369; June 15; v. 275; p. 461.
Koehl, George J., San Diego, Calif., assignor to Neptune Sea Food Company. Can selecting and weighing apparatus. No. 1,343,458; June 15; v. 275; p. 478.
Koerner, Charles L. (See Miller, Emil A., assignor.)
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Gear-cutting machine. No. 1,343,396; June 15; v. 275; p. 466.
Kopf, John C., Bellevue borough, Pa. Universal joint. No. 1,343,728; June 15; v. 275; p. 531.
Kopplin, Otto E., Marion, Tex. Crank-axle adjustment. No. 1,343,268; June 15; v. 275; p. 441.
Krajnah, Michael, and J. Madunicky, Danbury, Conn. Machine for hardening hats. No. 1,343,729; June 15; v. 275; p. 532.
Krauer, Joseph, Heaton Chapel, near Manchester, England. Apparatus for treatment of loss of hair on the head. No. 1,343,512; June 15; v. 275; p. 488.
Kraushaar, Peter, Montebello, Calif. Phonograph table-cabinet. No. 1,343,622; June 15; v. 275; p. 510.
Krohm, Nelson, Chicago, Ill., assignor to The Adams & Westlake Company. Sanitary car-hopper. No. 1,343,730; June 15; v. 275; p. 532.
Kubarzky, Otto, St. Louis, Mo. Weather-strip. No. 1,343,324; June 15; v. 275; p. 451.
Kugler, Charles H., Cozad, Nebr. Tractor. No. 1,343,783; June 15; v. 275; p. 543.
Kuypers, Gerard, Rotterdam, assignor of one-half to F. K. T. van Iterson, Heerlen, Netherlands. Cooling-tower of reinforced concrete. No. 1,343,832; June 15; v. 275; p. 553.
Kyle, James A., Salt Lake City, Utah. Electric lock. No. 1,343,731; June 15; v. 275; p. 532.
Lacy, Charles E., Richmond, Va. Automobile-pedal lock. No. 1,343,459; June 15; v. 275; p. 478.
La Montaine, Sidney J., Chicago, Ill. Connecting-plug. No. 1,343,676; June 15; v. 275; p. 521.
Langley, Jesse R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,343,214; June 15; v. 275; p. 431.
Laugnack, John J., Portland, Oreg. Automatic oil-pump with sight-feed. No. 1,343,677; June 15; v. 275; p. 521.
Larson, Elmer L. (See Ferguson, T. R., and Larson.)
Lea, Aaron V., assignor of one-half to J. Lea Bisbee, Ariz. Egg-carrier. No. 1,343,629; June 15; v. 275; p. 512.
Lea, Joseph. (See Lea, Aaron V., assignor.)
Leavell, Charles, *et al.* (See Scholes, Edmond P., assignor.)
Lechtenberg, Leo F., Quincy, Ill., assignor, by mesne assignments, to Rowsey Gasoline Process Company, Humboldt, Kans. Tube-scraping apparatus. No. 1,343,215; June 15; v. 275; p. 432.
Leeding, Ernest J., and A. A. Remington, Birmingham, England. Detachable tread for wheels and means of fixing same. No. 1,343,784; June 15; v. 275; p. 543.
Lees, Joseph, West Bethlehem, Pa. Lawn-edge-trimming gage. No. 1,343,269; June 15; v. 275; p. 441.
Leitch, Frank, Detroit, Mich. Flower-pot support. No. 1,343,568; June 15; v. 275; p. 500.
Leitch, John W., Huddersfield, England. Apparatus for solidifying or concentrating materials. No. 1,343,833; June 15; v. 275; p. 553.
Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Opening means for centrifugal bowls. No. 1,343,325; June 15; v. 275; p. 452.
Lemieux, Thomas D., Lakewood, Ohio. Combined cylinder-head. No. 1,343,678; June 15; v. 275; p. 522.
Lenhart, Charles, New York, N. Y. Extension-slide for cabinet-drawers. No. 1,343,513; June 15; v. 275; p. 488.
Leonard, William B., Chicago, Ill. Chair for reinforcing-rods for reinforced concrete. No. 1,343,326; June 15; v. 275; p. 452.
Leopold, George G., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Lifting-jack. No. 1,343,732; June 15; v. 275; p. 532.
Le Sueur, Philip J., Brighton, England. Breast-drill. No. 1,343,370; June 15; v. 275; p. 461.
Leth, Marius, Omaha, Nebr. Garment support and stretcher. No. 1,343,397; June 15; v. 275; p. 466.
Levene, Albert H., assignor to David Lupton's Sons Co., Philadelphia, Pa. Metal shelving. No. 1,343,327; June 15; v. 275; p. 452.
Levy, William, Paterson, N. J. Reversible railway-ticket holder. No. 1,343,569; June 15; v. 275; p. 500.
Lewis, Charles A., and H. E. Smock, Dayton, Ohio. Automatic self-propelled toy tank. No. 1,343,834; June 15; v. 275; p. 553.
Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. No. 1,343,835; June 15; v. 275; p. 553.
Lewis, Wilfred, Haverford, Pa. Jar-molding machine. No. 1,343,836; June 15; v. 275; p. 553.
Lewis, William H., Atwell, Colo. Irrigation means. No. 1,343,871; June 15; v. 275; p. 561.
Libby, A. D. T. (See Mitchell, John A., assignor.)
Lieberthal, Robert H., Bridgeport, Conn. Toothbrush. No. 1,343,570; June 15; v. 275; p. 500.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrahamsen, Sigurd O., Virginia, Minn. Automatic fire-alarm. No. 1,344,471; June 22; v. 275; p. 742.
Adams, Arthur A. (See Emery, F. A., and Adams.)
Aikman, Walter M., Greenwich, Conn., assignor to The Central Stamping Company, New York, N. Y. Composite bake-pan. No. 1,343,991; June 22; v. 275; p. 648.
Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Method of and apparatus for testing for dynamic balances. No. 1,343,954; June 22; v. 275; p. 641.
Aktiebolaget Ljungström Angturbin. (See Ljungström, B. and J., assignors.)
Aktiebolaget Ljungström Angturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Nordlund, Erland, assignor.)
Albertie, Addis E., Detroit, Mich. Collapsible chair and the like. No. 1,344,431; June 22; v. 275; p. 734.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromotive device. No. 1,344,196; June 22; v. 275; p. 688.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromotive device. No. 1,344,197; June 22; v. 275; p. 688.
Alcañiz y Bascompte, Francisco. (See Dieguez y Lopez, J., and Alcañiz y Bascompte.)
Aldis, Arthur J. (See Parsons, C. A., Cook, and Aldis.)
Alien Property Custodian. (See Fischer, Adalbert, assignor.)
Allen, Annie, administratrix. (See Koenig, William J., assignor.)
Allen, Charles, El Paso, Tex. Automatic density-indicator for slime-pulp separators. No. 1,344,370; June 22; v. 275; p. 722.
Allen, Charles C., Raymilton, Pa. Skid-chain tightener. No. 1,344,472; June 22; v. 275; p. 743.
Allis-Chalmers Manufacturing Company. (See Albrecht, George M., assignor.)
Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
Allis-Chalmers Manufacturing Company. (See Hagmaier, William G., assignor.)
Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Manufacturing Company. (See Wilson, James, assignor.)
Allison, James A., *et al.* (See Kramer, Benjamin G., assignor.)
Almion Engineering & Contracting Company *et al.* (See Sullivan, D. C., Hawkins, and MacMillan, assignors.)
American Can Company. (See Baker, Herbert A., assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Kenny, William J., assignor.)
American Can Company. (See Klingman, Louis, assignor.)
American Well Works, The. (See Chapman, Matthew T., assignor.)
Ames, Howard E., Washington, D. C. Sanitary receptacle. No. 1,344,531; June 22; v. 275; p. 754.
Anderson, Arthur R., North Arlington, N. J. Shoe-tree. No. 1,343,891; June 22; v. 275; p. 629.
Anderson, James C., Rutherford, N. J., assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,344,432; June 22; v. 275; p. 735.
Anderson, Vincent G., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Walking-dredge. No. 1,344,571; June 22; v. 275; p. 762.
Andrews, Hervey N., and R. M. Holmes, South Bend, Ind. Air-conditioning apparatus for drying-kilns. No. 1,343,894; June 22; v. 275; p. 629.
Appleby, Edmund G. (See Bentley, G. H., and Appleby.)
Arduino, Pier T., Turin, Italy. Apparatus for preparing coffee infusion. No. 1,344,161; June 22; v. 275; p. 681.
Armagost, George W., Minneapolis, Minn. Tool for contracting and expanding demountable wheel-rims. No. 1,343,992; June 22; v. 275; p. 648.
Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
Arnold, Henry, assignor to Societe Francaise d'Editions Photo-Cartographiques, Paris, France. Altimetric device for use in the production of plans and maps in relief. No. 1,344,162; June 22; v. 275; p. 681.
Austin, Frederick G. (See Anderson, Vincent C., assignor.)
Automatic Electric Company. (See Richardson, Rodney G., assignor.)
Automatic Electric Co. (See Truby, Franklin J., assignor.)
Automatic Gold Chain Company. (See Speidel, Edwin F. M., assignor.)
Bacmire, George H., Collegeville, Pa. Beater for removing dust and dirt from carpets or the like. No. 1,343,895; June 22; v. 275; p. 629.
Badger, Thomas N., Berkeley, Calif., and W. G. Smith, Wallace, Idaho. Disappearing stairway. No. 1,344,371; June 22; v. 275; p. 723.
Baehr, Hermine, Baltimore, Md. Sterilizer-rack. No. 1,344,252; June 22; v. 275; p. 698.
Baehr, Hermine, Baltimore, Md. Safety attachment for gas-stove. No. 1,344,253; June 22; v. 275; p. 698.
Baer, William N., White Bear, Minn. Detachable-body lock. No. 1,344,572; June 22; v. 275; p. 762.
Bagnulo, Salvatore, Revere, Mass. Shower-bath attachment. No. 1,343,892; June 22; v. 275; p. 629.
Baines, Henry C., East Cleveland, assignor, by mesne assignments, to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of steel, iron, and similar articles. No. 1,344,372; June 22; v. 275; p. 723.
Baker, Herbert A., assignor to American Can Company, New York, N. Y. Means for hermetically sealing containers. No. 1,343,955; June 22; v. 275; p. 641.
Baldwin, Charles E., Houston, Tex. Penholder. No. 1,344,329; June 22; v. 275; p. 714.
Baldwin, Harry, Seymour, Conn. Paper-clip. No. 1,344,473; June 22; v. 275; p. 743.
Ball, Charles F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-link for chain tracks. No. 1,344,373; June 22; v. 275; p. 723.
Banes, Walter D., Philadelphia, Pa., assignor to General Pressed Metal Company. Hanger. No. 1,344,110; June 22; v. 275; p. 671.
Barducci, Pilade, Naples, Italy. Drying plant. No. 1,344,163; June 22; v. 275; p. 681.
Barker, William R., Vanzant, Mo. Agricultural implement. No. 1,343,896; June 22; v. 275; p. 629.
Barnes, Carl C., assignor of one-half to B. W. Jones, Portland, Oreg. Wrench. No. 1,344,573; June 22; v. 275; p. 763.
Barrett, Roy, Palmyra, N. Y. Vehicle. No. 1,343,993; June 22; v. 275; p. 649.
Barrickman, Bart M., Portland, Oreg. Clothespin. No. 1,344,254; June 22; v. 275; p. 699.
Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making sodium sulfite. No. 1,343,897; June 22; v. 275; p. 630.
Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium arsenate. No. 1,344,018; June 22; v. 275; p. 654.
Batchelder, Frank R. (See Brothers, Horace C., assignor.)
Bates, George E., Syracuse, N. Y. Direction-indicator for vehicles. No. 1,343,994; June 22; v. 275; p. 649.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,343,956; June 22; v. 275; p. 641.
Baumbach, Harry B. (See Cressler, A. B., Nees, and Baumbach.)
Beach, David S., Bridgeport, Conn. Resilient wheel. No. 1,343,898; June 22; v. 275; p. 630.
Beam, Warren B., Mancelona, Mich. Mop-head. No. 1,344,198; June 22; v. 275; p. 688.
Beamer, Samuel C., Marshalltown, Iowa. Egg-tray. No. 1,344,019; June 22; v. 275; p. 654.
Beamless Car Truck Self-Adjusting Brake Company. (See Hartill-Law, William, assignor.)
Bean, Albert M., Colville, Wash. Portable music-sheet container and turner. No. 1,344,374; June 22; v. 275; p. 723.
Beaton, A. J., Manufacturing Company, The. (See Beaton, Allan J., assignor.).
Beaton, Allan J., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn. Floor or ceiling plate. No. 1,344,219; June 22; v. 275; p. 692.
Beattey, Earle J. R., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic-lens frame. No. 1,344,474; June 22; v. 275; p. 743.

Beckman, Bernard T., Lowell, Ind., and H. J. Beckman, Waukegan, Ill. Chair. No. 1,344,255; June 22; v. 275; p. 699.
Beckman, Henry J. (See Beckman, B. T. and H. J.)
Beich, Albert J., Camden, N. J. Power-transmitting belt. No. 1,344,475; June 22; v. 275; p. 743.
Bell, George F., Tulsa, Okla. Wire-line drilling-clamp. No. 1,344,476; June 22; v. 275; p. 743.
Bellville, Raymond, *et al.* (See Crays, Oscar M., assignor.)
Benjamin, Edward O., Newark, N. J., assignor to International Oxygen Company, New York, N. Y. Electrolytic apparatus. No. 1,344,220; June 22; v. 275; p. 692.
Benjestorf, Edward, Fenwood, Saskatchewan, Canada. Antiskid-chain. No. 1,344,477; June 22; v. 275; p. 744.
Bennett, William, Hamilton, Ontario, Canada. Antiglare device for headlights. No. 1,344,164; June 22; v. 275; p. 682.
Benson, Bennett K., Hatton, N. D. Jewelry-setting. No. 1,344,111; June 22; v. 275; p. 671.
Bentley, George H., and E. G. Appleby, Westminster, London, England. Gas-generator. No. 1,343,995; June 22; v. 275; p. 649.
Bessett, Elmer E., Waterloo, Quebec, Canada. Mop. No. 1,344,112; June 22; v. 275; p. 671.
Best, William N., assignor of one-fourth to C. Wupper, Brooklyn, N. Y. Signal-lamp. No. 1,343,899; June 22; v. 275; p. 630.
Betz, William G., Buffalo, N. Y., assignor to Straube Piano Company, Hammond, Ind. Music-roll-controlling mechanism. No. 1,344,574; June 22; v. 275; p. 763.
Bevan, Alexander, Providence, R. I. Envelop-sealer. No. 1,344,375; June 22; v. 275; p. 723.
Bickhart, Franklin R., assignor to A. H. Lyons, Philadelphia, Pa. Battery-grid. No. 1,343,957; June 22; v. 275; p. 642.
Bird, Emerson B., Seattle, Wash. Jack. No. 1,344,575; June 22; v. 275; p. 763.
Bishop, Samuel H. (See Slye, J. Q., and Bishop.)
Bjornlie, Julius, assignor to Bjornlie Manufacturing Company, Watertown, S. D. Tire-tool. No. 1,343,893; June 22; v. 275; p. 629.
Bjornlie Manufacturing Company. (See Bjornlie, Julius, assignor.)
Black, Joslah, deceased, Lansing, Mich.; S. D. Kelley administrator. Gasolene-dispensing device. No. 1,344,478; June 22; v. 275; p. 744.
Blackburn, Emery D., San Francisco, Calif. Hose-clamp. No. 1,344,433; June 22; v. 275; p. 735.
Blackman, Zachary T., Long Beach, Miss. Combination hoe and spade. No. 1,344,256; June 22; v. 275; p. 699.
Blewett, Arthur R., assignor to Blewett Tractor Company, Tacoma, Wash. Tractor-belt. No. 1,343,958; June 22; v. 275; p. 642.
Blewett Tractor Company. (See Blewett, Arthur R., assignor.)
Bliss, George H., assignor to A. G. Bradley & Son, Inc., Boston, Mass. Cover-fastener. No. 1,344,576; June 22; v. 275; p. 763.
Block, Otto R., assignor of one-fourth to C. E. Hoke, Shippensburg, Pa. Folding bed, dresser, and washstand. No. 1,344,257; June 22; v. 275; p. 699.
Boa, Robert G. C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,344,434; June 22; v. 275; p. 735.
Boisseller, Félix F., Colombes, France. Solder for aluminum. No. 1,344,165; June 22; v. 275; p. 682.
Borden Company, The. (See Nonneman, Ira W., assignor.)
Boston Scale and Machine Co. (See Emery, F. A., and Adams, assignors.)
Boston Scale and Machine Co. (See Foote, Theodore M., assignor.)
Bottone, Victor R., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Punching-machine. No. 1,344,435; June 22; v. 275; p. 735.
Bowersox, Joseph W., Louisville, Ky., assignor of one-half to A. W. Moore, Pittsburgh, Pa. Mattress-tufting machine. No. 1,344,605; June 22; v. 275; p. 769.
Boyer, Jesse L., Reading, Pa. Top cap for sugar-mill housings. No. 1,344,287; June 22; v. 275; p. 706.
Bradish, A. G., & Son. (See Bliss, George H., assignor.)
Bradley, Joseph B., Miami, Fla. Hinge. No. 1,344,479; June 22; v. 275; p. 744.
Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Orifice-precipitator. No. 1,344,330; June 22; v. 275; p. 714.
Brancel, Orville M. (See Peterson, O. A., and Brancel.)
Brasler, William H., Corpus Christi, Tex. Razor. No. 1,343,900; June 22; v. 275; p. 630.
Brasted, Clair H., East Cleveland, Ohio, assignor, by mesne assignments, to Ludlow Typograph Company, Chicago, Ill. Method of and apparatus for forming metal strips. No. 1,344,577; June 22; v. 275; p. 763.
Brenner, Richard M., Palisade, N. J. Race-game apparatus. No. 1,344,480; June 22; v. 275; p. 744.
Brenner, William C. Tumwater, assignor of one-half to R. Clayton, Olympia, Wash. Rail-bond punch. No. 1,343,901; June 22; v. 275; p. 630.
British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling apparatus. No. 1,344,166; June 22; v. 275; p. 682.
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Gage or gate mechanism. No. 1,344,167; June 22; v. 275; p. 682.
Brodin, Evald E., *et al.* (See Brodin, John A., assignor.)
Brodin, John A., assignor of one-third to E. E. Brodin and one-third to N. V. Christensen, Chicago, Ill. Radiator-cover. No. 1,344,376; June 22; v. 275; p. 723.
Brothers, Horace C., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven carrier. No. 1,344,377; June 22; v. 275; p. 724.
Brown, Charles F., Greeneville, Tenn. Machine for sharpening lawn-mower blades. No. 1,344,168; June 22; v. 275; p. 682.
Brown, Herman, Chicago, Ill. Pocket for garments. No. 1,344,075; June 22, v. 275; p. 665.
Brown, Robert E., Olean, N. Y. Combination toilet article. No. 1,343,959; June 22; v. 275; p. 642.
Brown-McLaren Manufacturing Co. (See Vjs, George A., assignor.)
Buchanan, Stewart H., Beaumont, Tex. Coaling device. No. 1,344,481; June 22; v. 275; p. 744.
Buckingham, Robert, Huntington, Ind. Belt-cutter. No. 1,344,169; June 22; v. 275; p. 682.
Bucklus, Edward M., Los Angeles, Calif. Collapsing tap. No. 1,344,113; June 22; v. 275; p. 672.
Buell, William C., Jr., assignor to Tate-Jones & Co. Inc., Pittsburgh, Pa. Heating-furnace. No. 1,344,436; June 22; v. 275; p. 735.
Buell, William C., Jr., Osborne borough, Pa., assignor to Tate-Jones & Co., Inc., Pittsburgh, Pa. Heating-furnace. No. 1,344,437; June 22; v. 275; p. 736.
Buell, William C., Jr., Osborne borough, Pa., and J. W. Griswold, Toledo, Ohio, assignors to Henry L. Doherty and Company, New York, N. Y. Heating-furnace. No. 1,344,438; June 22; v. 275; p. 736.
Bugbee, Coy M., Springfield, Vt. Tongue-depressor. No. 1,344,020; June 22; v. 275; p. 654.
Buller Coupler Company. (See Buller, Jacob W., assignor.)
Buller, Jacob W., assignor to Buller Coupler Company, Inc., Hillsboro, Kans. Draft-coupling. No. 1,344,482; June 22; v. 275; p. 745.
Burdick, Charles A., Kenosha, Wis. Ink-bottle attachment. No. 1,343,960; June 22; v. 275; p. 642.
Burger, William A., and W. Gross, San Francisco, Calif. Spring-wheel. No. 1,344,483; June 22; v. 275; p. 745.
Burke, Charles R., Tulsa, Okla. Making petrol or gasolene. No. 1,344,258; June 22; v. 275; p. 700.
Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Compound pneumatic impact-tool. No. 1,344,170; June 22; v. 275; p. 683.
Burnett, Rex C., Raleigh, Ill. Heater for carbureters. No. 1,344,021; June 22; v. 275; p. 654.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. No-voltage release attachment for electric switches. No. 1,343,961; June 22; v. 275; p. 642.
Burns, Robert L., Taft, assignor of one-half to C. E. Stratton, Los Angeles, Calif. Drill-stem. No. 1,344,221; June 22; v. 275; p. 693.
Butler, Ward, Chicago, Ill. Bomb-throwing machine. No. 1,344,378; June 22; v. 275; p. 724.
Byrne, John, San Quentin, Calif., assignor of one-half to C. Hudson, St. Louis, Mo. Safety-lock for bottles or the like. No. 1,343,962; June 22; v. 275; p. 642.
Byron, Riley J., Mount Vernon, Ind. Guide-roll for paper-machines. No. 1,344,171; June 22; v. 275; p. 683.
Cady, Charles N., Canastota, N. Y. Shaft-hanger gearing. No. 1,344,439; June 22; v. 275; p. 736.
Camell, Philip, Wilmington, Del. Adjustable switch-point rail-section. No. 1,344,259; June 22; v. 275; p. 700.
Cammen, Leon, New York, N. Y., and A. W. Ofeldt, Weehawken, N. J., assignors to Northwind Spark Plug Corporation, New York, N. Y. Spark-plug. No. 1,344,172; June 22; v. 275; p. 683.
Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Reducing-mill. (Reissue.) No. 14,886; June 22; v. 275; p. 770.
Campbell, Jesse T., Elbridge, Tenn. Sanitary churn. No. 1,344,022; June 22; v. 275; p. 654.
Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Method and means for controlling electric circuits. No. 1,344,260; June 22; v. 275; p. 700.
Cantrell, Lee E., Nashville, Tenn. Lock. No. 1,344,484; June 22; v. 275; p. 745.
Cantrell, Marvin L., Pueblo, Colo. Kiddie-coaster. No. 1,344,023; June 22; v. 275; p. 654.
Carey, James A., assignor to Standard Stoker Company, Inc., New York, N. Y. Automatic stoking mechanism. No. 1,344,578; June 22; v. 275; p. 764.
Carlson, Oscar T., Lindstrom, Minn. Combination-tool. No. 1,344,114; June 22; v. 275; p. 672.
Carpenter, Harry G. (See Krusemark, F. A., Funkhauser and Carpenter.)
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Engine. No. 1,344,331; June 22; v. 275; p. 715.
Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
Carrier, Joseph G., Chicoutimi, Quebec, Canada. Pulp-machine. No. 1,344,173; June 22; v. 275; p. 683.
Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company, Register-reset. No. 1,344,288; June 22; v. 275; p. 706.
Cartasso, Giacomo, Oakland, Calif. Spring-wheel. No. 1,344,579; June 22; v. 275; p. 764.

Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,344,289; June 22; v. 275; p. 706.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,344,290; June 22; v. 275; p. 706.
Cathedral Phonograph Company. (See Morrison, Ralph W., assignor.)
Central Stamping Company, The. (See Aikman, Walter M., assignor.)
Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Well-sinking apparatus. No. 1,343,902; June 22; v. 275; p. 631.
Chemical Foundation, Inc., The. (See Meyer, Ferdinand M., assignor.)
Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Retarded switch. No. 1,344,199; June 22; v. 275; p. 688.
Chernak, Andrew, Prince George, Va. Oil-machine. No. 1,344,261; June 22; v. 275; p. 700.
Cherry, Warren L., Wolfe City, Tex. Belt-stretcher. No. 1,344,485; June 22; v. 275; p. 745.
Childester, John H., Summit, N. J. Illuminated display-ing device. No. 1,344,379; June 22; v. 275; p. 724.
Chillmidos, Pericles, South Bethlehem, Pa. Camera-timing attachment. No. 1,344,440; June 22; v. 275; p. 736.
Christensen Machine Company. (See Christensen, Martin, assignor.)
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Book-stitching machine. No. 1,344,441; June 22; v. 275; p. 736.
Christensen, Norman V., *et al.* (See Brodin, John A., assignor.)
Christoffel, Thomas, assignor of one-half to F. Iseli, St. Paul, Minn. Window-frame with sash-cord holder. No. 1,344,532; June 22; v. 275; p. 755.
Christopher, William M., assignor to Pioneer Broom Company, Amsterdam, N. Y. Scraping attachment for broom-corn-sizing machines. No. 1,344,332; June 22; v. 275; p. 715.
Clark, Ezra E., Newtonville, Mass. Dry-pipe valve. No. 1,344,380; June 22; v. 275; p. 724.
Clausen, Henry P., Mount Vernon, and C. L. Goodrum, New York, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,343,903; June 22; v. 275; p. 631.
Clayton, Robert. (See Brenner, William C., assignor.)
Cleveland Metal Products Company, The. (See Baines, Henry C., assignor.)
Clogston, Melvin, assignor of one-half to J. Soeders, Terre Haute, Ind. Lifting device or grapple. No. 1,344,174; June 22; v. 275; p. 683.
Clouton, William H., Jr., U. S. Army. Collar-supporter. No. 1,344,580; June 22; v. 275; p. 764.
Clouston, Thomas, Vancouver, British Columbia, Canada Gas-generator and combustion-chamber for pulverized fuel. No. 1,344,333; June 22; v. 275; p. 715.
Coe, W. H., Manufacturing Company. (See Moscini, John, assignor.)
Coen, Garnet W., San Francisco, Calif. Heater. No. 1,344,381; June 22; v. 275; p. 724.
Coffelt, George F., Corbin, Kans. Airship. No. 1,344,486; June 22; v. 275; p. 746.
Cogswell, George R. (See Phillips, Fred V., assignor.)
Cole, John M., Bloomington, Ill. Tool for straightening elencher-rims. No. 1,344,533; June 22; v. 275; p. 755.
Coleman, William C., Wichita, Kans. Lamp. No. 1,344,260; June 22; v. 275; p. 689.
Colestock, Harry H., St. Paul, Minn. Sputum-box. No. 1,344,442; June 22; v. 275; p. 737.
Collens, Campbell W., New Orleans, La. Switch-operating device for street-railway cars. No. 1,344,487; June 22; v. 275; p. 746.
Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Electric heating apparatus. No. 1,343,996; June 22; v. 275; p. 649.
Collins, Thomas E., Chicago, Ill. Starter. No. 1,344,291; June 22; v. 275; p. 707.
Commercial Cars Construction Co. (See Rogers, Solomon D., assignor.)
Comly, James F., New Lexington, Ohio. Nut-lock. No. 1,344,534; June 22; v. 275; p. 755.
Condit, Jr., Sears B. (See Burnham, George A., assignor.)
Condon, Thomas J., Detroit, Mich. Saddle-spring support. No. 1,344,382; June 22; v. 275; p. 724.
Coulon Electric Washer Company. (See Wassell, Clifford R., assignor.)
Connell, Howard G., and A. J. Swindall, Dryad, Wash. Cattle-guard. No. 1,344,262; June 22; v. 275; p. 700.
Conrad, Nicholas J. (See Schweitzer, E. O., and Conrad.)
Conran, William F., Brooklyn, N. Y. Pressure-regulating valve. No. 1,344,383; June 22; v. 275; p. 725.
Constantine, Henry A., Niagara Falls, N. Y. Wet pulp-machine. No. 1,344,024; June 22; v. 275; p. 654.
Cook, Stanley S. (See Parsons, C. A., Cook, and Aldis.)
Cooper, Albert R., Findlay, Ohio. Thermo-electric arch-support. No. 1,344,581; June 22; v. 275; p. 764.
Cornell, Elmer E., St. Louis, Mo. Punching-shears. No. 1,344,488; June 22; v. 275; p. 746.
Corrigan, Edward J., Newport News, Va. Curtain and shade hanger. No. 1,343,997; June 22; v. 275; p. 649.
Coté, Alexis. (See Rousseau, Joseph H., and Coté, A.)
Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)
Cowley, James, and R. C. Dils, St. Louis, Mo. Auxiliary-power device. No. 1,344,582; June 22; v. 275; p. 764.
Cox, Paul F., Chicago, Ill. Addressing mechanism (slug). No. 1,344,384; June 22; v. 275; p. 725.
Craig, Edward J., West View, assignor to H. Moore, Sewickley, Pa. Weather-strip. No. 1,343,904; June 22; v. 275; p. 631.
Crays, Oscar M., assignor of one-third to R. Bellville and one-third to C. C. Stone, Indianapolis, Ind. Motor-buck. No. 1,344,385; June 22; v. 275; p. 725.
Creedy, James S., Hamilton, Ontario, Canada. Journal-box lids. No. 1,344,175; June 22; v. 275; p. 683.
Cresmer, John H., Riverside, Calif. Form for concrete construction. No. 1,344,115; June 22; v. 275; p. 672.
Cressler, Albert B., L. B. Noss, and H. B. Baumbach, Middletown, Pa. Sash-weight. No. 1,344,176; June 22; v. 275; p. 684.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,343,905; June 22; v. 275; p. 631.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,344,222; June 22; v. 275; p. 693.
Croonholm, Nils, Cornwall, N. Y. Equalizer. No. 1,344,334; June 22; v. 275; p. 715.
Crouse, Emory, Wichita, Kans. Internal-combustion engine. No. 1,344,263; June 22; v. 275; p. 701.
Crowell, Frederic N., Terrace Park, Ohio. Blotting-pad or blotter. No. 1,344,335; June 22; v. 275; p. 715.
Crummey, Henry C. (See Crummey, Willie H., assignor.)
Crummey, Willie H., assignor of one-half to H. C. Crummey, Baxley, Ga. Compound tool. No. 1,344,264; June 22; v. 275; p. 701.
Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
Dalton, John B., Pittsburgh, Pa. Packaging ice-cream. (Reissue.) No. 14,887; June 22; v. 275; p. 770.
Danner, Emil C., Westmont borough, Pa. Spring-coiling machine. No. 1,344,116; June 22; v. 275; p. 672.
David, John C., Springfield, Mo. Connecting means for railway-rails. No. 1,344,336; June 22; v. 275; p. 715.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,344,201; June 22; v. 275; p. 689.
Davis, George H. E., Lynn, Mass. Shelf-facing. No. 1,344,223; June 22; v. 275; p. 693.
Dawley, Fred R., Detroit, Minn. Attachment for steam-heating plants. No. 1,344,292; June 22; v. 275; p. 707.
Dawley, James C. (See Ripsch, C. W., Dawley, and Derby.)
Day, George H., Rochester, N. Y. Ophthalmic mounting. No. 1,344,293; June 22; v. 275; p. 707.
Day, Percy C., Milwaukee, assignor to The Falk Company, Wauwatosa, Wis. Transmission-gearing. No. 1,343,963; June 22; v. 275; p. 643.
De Cardenas, Ambrose. (See Ramos, R., and de Cardenas.)
Denmead, John W., Akron, Ohio. Attaching means for rubber heels. No. 1,344,443; June 22; v. 275; p. 737.
Derby, Charles D. (See Ripsch, C. W., Dawley, and Derby.)
Detwiler, Charles N., Toledo, Ohio. Stud-attaching means for electric outlet members. No. 1,344,077; June 22; v. 275; p. 665.
Diamond Iron Works. (See Sprague, Charles B., assignor.)
Dickinson, Joseph W., Cranford, N. J. Pressure-reserve method and mechanism for piano-players. No. 1,344,386; June 22; v. 275; p. 725.
Diegnez y Lopez, Juan, and F. Alcañiz y Bascompte, Habana, Cuba. Lip-guard. No. 1,344,179; June 22; v. 275; p. 684.
Dierker, Henry, Glenfield, Pa. Pressed-steel metal bedlock. No. 1,344,583; June 22; v. 275; p. 765.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,344,118; June 22; v. 275; p. 673.
Dils, Robert C. (See Cowley, J., and Dils.)
Disinger, Ernest, assignor to Willard Storage Battery Company, Cleveland, Ohio. Machine for casting strips to storage-battery grids. No. 1,344,294; June 22; v. 275; p. 707.
Diskin, Moses B., New York, N. Y. Box-making machine. No. 1,343,906; June 22; v. 275; p. 632.
Diskin, Moses B., New York, N. Y. Box-mandrel. No. 1,343,907; June 22; v. 275; p. 632.
Ditchfield, Frank, Montreal, Quebec, Canada. Tire. No. 1,344,025; June 22; v. 275; p. 655.
Dodge, Horace L., Buffalo, N. Y. Printing-machine. No. 1,344,489; June 22; v. 275; p. 746.
Doherty, Henry L., and Company. (See Buell, W. C., Jr., and Griswold, assignors.)
Doonar, Louis, Bend, Oreg. Wrench. No. 1,344,265; June 22; v. 275; p. 701.
Dorsey, Philip H., Algiers, La. Cushion-wheel. No. 1,344,337; June 22; v. 275; p. 716.
Doss, Oscar J. (See Fleming, Charles R., assignor.)
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Jones, Coulter W., assignor.)

Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Six-way valve. No. 1,344,490; June 22; v. 275; p. 746.
Drake, James M., Shawano, Wis. Potato-bug-trapping machine. No. 1,344,119; June 22; v. 275; p. 673.
Draper Corporation. (See Stimpson, Edward S., assignor.)
Draper Corporation. (See Towers, Jesse, assignor.)
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,344,120; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,344,121; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Fiber-treating machine. No. 1,344,122; June 22; v. 275; p. 673.
Dunford, William T., New York, N. Y., assignor to Shurloc Elevator Safety Co., Inc. Elevator safety system. No. 1,344,266; June 22; v. 265; p. 701.
Dunstan, Wayne E., assignor to R. Hagen, Dayton, Ohio. Tire-carrier for vehicles. No. 1,343,964; June 22; v. 275; p. 643.
Durand Steel Locker Company. (See Vance, Walter N., assignor.)
Dustless Victory Sieve Company. (See Goddard, Walter F., assignor.)
Eads, Oscar, Okmulgee, Okla. Inking-plate. No. 1,344,026; June 22; v. 275; p. 655.
Eckert, Karl, Fällanden, Switzerland, assignor to H. Koch, Dietikon, Switzerland. Belt-holder for looms. No. 1,344,177; June 22; v. 275; p. 684.
Edgar Steel Seal & Mfg. Co., The. (See Edgar, William K., assignor.)
Edgar, William K., assignor to The Edgar Steel & Mfg. Co., Lawrence, Kans. Car-seal. No. 1,344,491; June 22; v. 275; p. 747.
Edgar, William K., assignor to The Edgar Steel Seal and Mfg. Co., Lawrence, Kans. Automatic feed device. No. 1,344,492; June 22; v. 275; p. 747.
Edgerton, Roy G., Suffolk, Va. Internal-combustion-engine-testing device. No. 1,344,387; June 22; v. 275; p. 726.
Edman Car Door Company. (See Edman, John, assignor.)
Edman, John, assignor to Edman Car Door Company, Minneapolis, Minn. Car-door lock. No. 1,344,444; June 22; v. 275; p. 737.
Edstrom, Arthur E., Elbow Lake, Minn. Draft attachment. No. 1,343,908; June 22; v. 275; p. 632.
Eisenbauer, William, New York, N. Y. Rust-preventing solution and preparing same. No. 1,344,338; June 22; v. 275; p. 716.
Eisenmann, Carl W., Nebraska City, Nebr. Combination magnetic and electric polarity-indicator. No. 1,344,388; June 22; v. 275; p. 726.
Electric Controller & Manufacturing Company, The. (See Canfield, Harry R., assignor.)
Electric Vapor Heater Company. (See Little, William F., assignor.)
Elkins, Abraham, Bridgeport, Conn. Ash-sifting device. No. 1,344,493; June 22; v. 275; p. 747.
Ellis, George H., St. Paul, Minn. Machine for molding lath-boards. No. 1,343,909; June 22; v. 275; p. 632.
Emery, Frank A., Quincy, and A. A. Adams, Brookline, assignors, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,344,295; June 22; v. 275; p. 708.
Engelmann, Edward W., and W. T. MacDonald, Hayden, Ariz. Aeration-cell for flotation apparatus. No. 1,344,123; June 22; v. 275; p. 674.
Engineering Products Corporation. (See Burlingham, William, assignor.)
Engman, Evald J., assignor to The Will & Baumer Company, Syracuse, N. Y. Hoisting apparatus for candle-finishing machines. No. 1,344,445; June 22; v. 275; p. [illegible].
Engman, Evald J., assignor to The Will & Baumer Company, Syracuse, N. Y. Candle-holder. No. 1,344,446; June 22; v. 275; p. 738.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Errett, Charles, New York, assignor to Public Service Cup Company, Brooklyn, N. Y. Fixture for drinking-cups. No. 1,343,965; June 22; v. 275; p. 643.
Eustice, Alfred L., Chicago, Ill. Plug-fuse. No. 1,344,296; June 22; v. 275; p. 708.
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Tension device. No. 1,343,910; June 22; v. 275; p. 633.
Evilsizor, John E., and C. Follrath, Springfield, Ohio. Ornament-support. No. 1,344,027; June 22; v. 275; p. 655.
Ewald, Arno A., Oakfield, Wis. Gasket for inflation-tube connections. No. 1,344,028; June 22; v. 275; p. 655.
Falk Company, The. (See Day, Percy C., assignor.)
Fazzari, Pietro P., Huntington, W. Va. Agricultural implement. No. 1,344,494; June 22; v. 275; p. 747.
Fedders, Martin, Masury Station, Ohio. Flying-machine. No. 1,344,297; June 22; v. 275; p. 708.
Federal Telegraph Company. (See Marx, R. G., and Fuller, assignors.)
Feist, Charles M., Sioux City, Iowa. Wheel-bearing. No. 1,344,495; June 22; v. 275; p. 747.
Felsenthal Brothers & Company. (See Felsenthal, H., and Kaestner, assignors.)
Felsenthal, Henry, and L. W. Kaestner, Chicago, Ill., assignors to Felsenthal Brothers & Company. Toilet-case. No. 1,344,124; June 22; v. 275; p. 674.
Ferguson, Isaac, Shelby, Ohio. Power hoisting and conveying machine. No. 1,343,966; June 22; v. 275; p. 643.
Fickes, William A., Altoona, Pa. Carpet-sweeper. No. 1,344,389; June 22; v. 275; p. 726.
Fiddes, Oscar H. (See Wigmore, William J., and Fiddes.)
Fiege, Raymond G., Cleveland, Ohio. Automatic oiler. No. 1,344,078; June 22; v. 275; p. 665.
Fields, Elta E., Marion, Ohio. Combined curtain and shade support. No. 1,344,298; June 22; v. 275; p. 708.
Fischer, Adalbert, Philadelphia, Pa., assignor to Alien Property Custodian. Apparatus for burning oil. No. 1,344,029; June 22; v. 275; p. 656.
Fisher, Carl G., *et al.* (See Kramer, Benjamin G., assignor.)
Flettum, Albert L., Syracuse, N. Y. Aerial propeller. No. 1,344,496; June 22; v. 275; p. 748.
Fleming, Charles R., assignor of one-third to O. J. Doss, Hoberg, Mo. Piano-violin. No. 1,344,497; June 22; v. 275; p. 748.
Follrath, Carl. (See Evilsizor, J. E., and Follrath.)
Foote, Theodore M., Allston, assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,344,339; June 22; v. 275; p. 716.
Fox, Albert C., Lamar, Colo. Writing attachment for automobile steering-wheels. No. 1,344,498; June 22; v. 275; p. 748.
Freygang, Walter H., Weehawken, W. Kidde, Montclair, and B. G. Worth, West Orange, N. J., assignors to W. Kidde & Company. Marine fire-indicating system. No. 1,343,911; June 22; v. 275; p. 633.
Frost, Frederick E., Worcester, Mass. Rubber-stamp attachment. No. 1,344,079; June 22; v. 275; p. 665.
Fulda, Edward, New York, N. Y. Process and product of electric welding. No. 1,344,125; June 22; v. 275; p. 674.
Fuller, Leonard F. (See Marx, R. G., and Fuller.)
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton-Kenova Mine Car Company, The. (See Streby, Ray D., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Pressure-gage. No. 1,344,340; June 22; v. 275; p. 716.
Funk, Rufus B., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Centering scale or rule for centering typewritten or other work. No. 1,343,912; June 22; v. 275; p. 633.
Funkhouser, Luther G. (See Krusemark, F. A., Funkhouser, and Carpenter.)
Furstonburg, Henry B., Shreveport, La. Lateral-take-up device for locomotive-axles. No. 1,344,267; June 22; v. 275; p. 702.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,344,499; June 22; v. 275; p. 748.
Gabel, Thomas R. (See Holdaway, H. H., and Gabel.)
Galibert, Maurice, New York, N. Y. Labeling containers. No. 1,344,080; June 22; v. 275; p. 665.
Galibert, Maurice, New York, N. Y. Labeling-machine. No. 1,344,081; June 22; v. 275; p. 666.
Gates, Philetus W., Chicago, Ill., assignor to Mumford Molding Machine Company, Jersey City, N. J. Molding-machine. No. 1,344,126; June 22; v. 275; p. 674.
Gayle, Samuel L., Baskerville, Va. Road-guide. No. 1,344,268; June 22; v. 275; p. 702.
Gemmer Manufacturing Company. (See Ragan, Frederick H., assignor.)
General Electric Company. (See Collins, Edgar F., assignor.)
General Electric Company. (See Johannesen, Svend E., assignor.) (Reissue.)
General Pressed Steel Metal Company. (See Banes, Walter D., assignor.)
Genn, John E., assignor to Stewart-Warner-Speedometer Corporation, Chicago, Ill. Portable signal device. No. 1,344,082; June 22; v. 275; p. 666.
Giardino, Anthony, Brockton, Mass. Clasp. No. 1,344,500; June 22; v. 275; p. 748.
Gibson, William W., San Francisco, Calif. Gyratory crushing-mill. No. 1,344,584; June 22; v. 275; p. 765.
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gilpin, Victor C., and J. E. McAuliffe, Brooklyn, N. Y. Fabric conduit. No. 1,344,501; June 22; v. 275; p. 749.
Gilson, Henry R., New Rochelle, N. Y., assignor to New York Belting & Packing Company. Hose-coupling. No. 1,343,967; June 22; v. 275; p. 643.
Gmys, Andrew A. (See Kaminski, Albert, assignor.)
Goddard, Walter F., Somerville, assignor to Dustless Victory Sieve Company, Boston, Mass. Ash-sifter. No. 1,344,390; June 22; v. 275; p. 726.
Goddard, Walter T., Hamilton, Ontario, Canada, assignor to The Locke Insulator Mfg. Co., Victor, N. Y. Insulator. (Reissue.) No. 148,888; June 22; v. 275; p. 770.
Goldsmith, David, Newark, N. J. Garment-hanger. No. 1,344,391; June 22; v. 275; p. 726.
Goodle, Frank J., Dover, N. H. Combination protractor, bevel, and level. No. 1,344,269; June 22; v. 275; p. 702.
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)

Gould Coupler Company. (See Creveling, John L., assignor.)
Graham, Charles W., Huntington, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,343,913; June 22; v. 275; p. 634.
Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Manufacturing gasket-lined can ends and apparatus therefor. No. 1,343,914; June 22; v. 275; p. 634.
Grant, Thomas H., Englewood, N. J. Golf-club. No. 1,343,998; June 22; v. 275; p. 650.
Grant, Willburn C., Abilene, Tex. Ice-machine. No. 1,344,502; June 22; v. 275; p. 749.
Green, Walter R., Chicago, Ill. Adjustable tire-carrier. No. 1,344,202; June 22; v. 275; p. 689.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,344,030; June 22; v. 275; p. 656.
Greenawalt, William E., Denver, Colo. Treating liquids with gases. No. 1,344,031; June 22; v. 275; p. 656.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,344,127; June 22; v. 275; p. 674.
Greenfield, Edwin T., deceased, Yonkers, N. Y.; M. E. Greenfield, administratrix. Pipe and means for connecting same. No. 1,344,032; June 22; v. 275; p. 656.
Greenfield, Mary E., administratrix. (See Greenfield, Edwin T., assignor.)
Grems, Glen S. (See Vandenburgh, W. E., and Grems.)
Griffin, John F., *et al.* (See Mentzer, Claude E., assignor.)
Griffiths, William C., Philadelphia, Pa. Interlocking flush-tank lever and fulcrum. No. 1,344,128; June 22; v. 275; p. 675.
Griswold, John W. (See Buell, W. C., Jr., and Griswold.)
Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Manufacturing composite soles for boots or shoes. No. 1,344,503; June 22; v. 275; p. 749.
Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Sole for boots or shoes. No. 1,344,504; June 22; v. 275; p. 749.
Gross, Charles M., Mount Union, Pa. Builder's-line holder. No. 1,344,224; June 22; v. 275; p. 693.
Gross, William. (See Burger, W. A., and Gross.)
Gretkowski, Stanley, Chicopee, Mass. Gas-kindling grate. No. 1,344,341; June 22; v. 275; p. 716.
Grounds, Albert R., Hooker, Okla. Harvesting implement. No. 1,344,033; June 22; v. 275; p. 656.
Grozier, Thomas H., Longueville, near Sydney, New South Wales, Australia. Apparatus for the reclaiming of used printers' roller composition. No. 1,344,270; June 22; v. 275; p. 702.
Grumme, William F., assignor of one-fourth to L. Segal, New York, N. Y. Apparatus for raising ships. No. 1,344,505; June 22; v. 275; p. 749.
Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the casting of hub-liners on bearing-boxes for locomotives or the like. No. 1,344,083; June 22; v. 275; p. 666.
Gunn, John C., Liverpool, England. Manufacture of cigarette and other article cases. No. 1,344,506; June 22; v. 275; p. 749.
Hackett, James K., New York, N. Y. Display device. No. 1,344,084; June 22; v. 275; p. 666.
Hadfield, Robert A., Westminster, England. Manufacture of manganese-steel sheets. No. 1,344,392; June 22; v. 275; p. 726.
Hagen, Robert. (See Dunstan, Wayne E., assignor.)
Hagmaier, William G., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sawshifter. No. 1,344,203; June 22; v. 275; p. 689.
Hagstrom, Carl J., Glen Cove, N. Y. Casement-adjuster. No. 1,344,507; June 22; v. 275; p. 750.
Hagstrom, Carl J., Glen Cove, N. Y. Antirattle-catch. No. 1,344,508; June 22; v. 275; p. 750.
Hahn, William J., Philadelphia, Pa. Ruler. No. 1,343,968; June 22; v. 275; p. 644.
Halbow, Gustav, Brooklyn, N. Y. Water-skate. No. 1,344,225; June 22; v. 275; p. 693.
Hallner, Andrew, Arbuga, Calif. Vehicle-spring. No. 1,344,204; June 22; v. 275; p. 689.
Hammon, Carl F., Hartford, Conn. Safety-razor. No. 1,344,447; June 22; v. 275; p. 738.
Hampton, Frederic W., Indianapolis, Ind. Marine mine. No. 1,343,969; June 22; v. 275; p. 644.
Hampton, William C., North Manchester, Ind. Air-compressor. No. 1,344,509; June 22; v. 275; p. 750.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-wheel-toothing machine. No. 1,344,299; June 22; v. 275; p. 708.
Hanson, Oscar W., Salina, Kans. Piston packing-ring. No. 1,344,342; June 22; v. 275; p. 717.
Hantsch, Arthur, Linden, N. J. Stand for bicycles. No. 1,344,226; June 22; v. 275; p. 693.
Harmon Paper Company. (See Warren, John J., assignor.)
Harp, Otto, Wadsworth, Ohio. Crank-handle-retaining device. No. 1,344,343; June 22; v. 275; p. 717.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. No. 1,344,034; June 22; v. 275; p. 657.
Hartford, Edward V., Deal, N. J. Shock-absorber. No. 1,343,970; June 22; v. 275; p. 644.
Hartill-Law, William, assignor to Beamless Car Truck Self-Adjusting Brake Company, Minneapolis, Minn. Brake mechanism for cars. No. 1,344,129; June 22; v. 275; p. 675.
Hauman, Alexander W., Cape Town, South Africa. Instrument for the removal of hemorrhoids and resection of prolapsus recti. No. 1,344,227; June 22; v. 275; p. 694.
Heuser, Herman, Evanston, Ill. Manufacture of alcohol-reduced beer. (Reissue.) No. 14,889; June 22; v. 275; p. 771.
Hawkins, George L. (See Sullivan, D. C., Hawkins, and MacMillan.)
Hayes, Jeremiah, Everett, Wash. Stake-pocket. No. 1,344,393; June 22; v. 275; p. 727.
Head, Mahlon M., *et al.* (See Mentzer, Claude E., assignor.)
Hedenburg, Oscar F., and D. S. Pratt, Pittsburgh, Pa., assignors to The Toledo Rex Spray Company, Toledo, Ohio. Making arsenate of lead. No. 1,344,035; June 22; v. 275; p. 657.
Hendricks, Walter L., Aurora, Ill. Harvesting-machine. No. 1,344,130; June 22; v. 275; p. 675.
Henius, Max, assignor to F. Mendelsohn, Chicago, Ill. Treating oranges. No. 1,343,915; June 22; v. 275; p. 634.
Henneböhle, Frank, Chicago, Ill. Back-pressure and relief valve. No. 1,344,300; June 22; v. 275; p. 708.
Henshaw, F. R., trustee. (See Worden, Stanley B. T., assignor.)
Herington, Thomas E. (See Hughes, J. E., and Herington.)
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company. Portable elevator. No. 1,344,271; June 22; v. 275; p. 703.
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company. Portable elevator. No. 1,344,272; June 22; v. 275; p. 703.
Hewitt, George W., Wheeling, W. Va., and A. Steinbart, Pittsburgh, Pa. Apparatus for cleaning gases. No. 1,344,585; June 22; v. 275; p. 765.
Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,344,586; June 22; v. 275; p. 765.
Heyman, Harry R., Berkeley, Calif. Circle-spacing device. No. 1,344,587; June 22; v. 275; p. 766.
Heymann, Philip S. (See Heymann, Sidney, assignor.)
Heymann, Sidney, Far Rockaway, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,344,036; June 22; v. 275; p. 657.
Heymann, Sidney, Far Rockaway, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,344,037; June 22; v. 275; p. 657.
Hickok, Emory, Engle, and A. H. Hollenbeck, Fair View, N. M. Cattle-guard. No. 1,344,535; June 22; v. 275; p. 755.
Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Hilliard, Albert W., Wheelersburg, Ohio. Hydraulic gear-jack. No. 1,344,510; June 22; v. 275; p. 750.
Hines, Edwin G., Drums, Pa. Draft-head for plow-beams. No. 1,344,131; June 22; v. 275; p. 675.
Hirst, Harry R., Trenton, N. J. Repair-tool for tires. No. 1,343,971; June 22; v. 275; p. 644.
Hoard, Allen P., Taunton, Mass. Machine for beveling the edges of mounts and prints. No. 1,343,972; June 22; v. 275; p. 644.
Hoe, R., and Co. (See Raabe, Otto L., assignor.)
Hoehn, Charles A., Pittsburgh, Pa. Seat structure. No. 1,343,916; June 22; v. 275; p. 634.
Hoffman, George A., Chicago, Ill. Envelop. No. 1,344,394; June 22; v. 275; p. 727.
Hoffman, Gustav, Chicago, Ill. Type-holder. No. 1,343,917; June 22; v. 275; p. 634.
Hogston, John H., Minneapolis, Minn. Antiskid attachment for wheels. No. 1,344,273; June 22; v. 275; p. 703.
Hoke, Charles E. (See Block, Otto B., assignor.)
Holdaway, Hall H., and T. R. Gabel, assignors of two-thirds to H. P. Jones, Los Angeles, Calif., and one-third to said Gabel. Product-picking nozzle. No. 1,344,205; June 22; v. 275; p. 689.
Hollenbeck, Albert H. (See Hickok, E., and Hollenbeck.)
Holm, John A., New York, N. Y. Timer. No. 1,344,395; June 22; v. 275; p. 727.
Holmes, Roy M. (See Andrews, H. N., and Holmes.)
Holt, Ben C., Spokane, Wash., assignor to The Holt Manufacturing Company, Stockton, Calif. Combined harvester and thresher. No. 1,344,396; June 22; v. 275; p. 727.
Holt Manufacturing Company, The. (See Ball, Charles F., assignor.)
Holt Manufacturing Company, The. (See Holt, Ben C., assignor.)
Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
Holt Manufacturing Company, The. (See Norelius E. [illegible], and Turnbull, assignors.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)

Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Gun-carriage. No. 1,344,397; June 22; v. 275; p. 727.
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-chain. No. 1,344,398; June 22; v. 275; p. 727.
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Steering-clutch. No. 1,344,399; June 22; v. 275; p. 728.
Holton, Edward C., Olmsted Falls, assignor to Sherwin-Williams Company, Cleveland, Ohio. Treating polysulfid solutions. (Reissue.) No. 14,890; June 22; v. 275; p. 771.
Hoofer, Charles F., Seattle, Wash. Automatic means for operating flange-oilers, &c. No. 1,343,973; June 22; v. 275; p. 644.
Horman, Alfred E., New York, N. Y. Rotary mechanism. No. 1,344,085; June 22; v. 275; p. 666.
Houghton, Lewis T., Worcester, Mass. Yarn-tension device. No. 1,344,400; June 22; v. 275; p. 728.
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Universal joint for spot-lights. No. 1,344,344; June 22; v. 275; p. 717.
Howard, John A., Sr., West New Brighton, N. Y. Cooking utensil. No. 1,344,511; June 22; v. 275; p. 750.
Hubbard, Charles W., Weston, Mass. Twine-holder. No. 1,344,274; June 22; v. 275; p. 703.
Hudson, Clark. (See Byrne, John, assignor.)
Hudson, Edwin B., Middletown, Ohio. Pneumatic wheel. No. 1,344,401; June 22; v. 275; p. 728.
Huff, Gilbert L., St. Louis, Mo. Coin-controlled mechanism. No. 1,343,999; June 22; v. 275; p. 650.
Huff, Gilbert L., Holdenville, Okla. Coin-controlled mechanism. No. 1,344,086; June 22; v. 275; p. 667.
Hughes, Joe A., and T. E. Herington, Mallard, Iowa. Umbrella. No. 1,344,132; June 22; v. 275; p. 675.
Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Seam. No. 1,344,000; June 22; v. 275; p. 650.
Hunter, Annie M., Akron, Ohio. Footrest. No. 1,344,402; June 22; v. 275; p. 728.
Hurst, William C., New York, N. Y. Combustion-engine. No. 1,344,228; June 22; v. 275; p. 694.
Hutchinson, William S., Bethlehem, Pa. Girder. No. 1,344,229; June 22; v. 275; p. 694.
Hydragas Corporation, The. (See Shaver, George F., assignor.)
Independent Lamp and Wire Company. (See Liebmann, A. J., and Laise, assignors.)
Ingersoll-Rand Company. (See Longacre, Frederick V. D., assignor.)
Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
Ingoldsby, Frank S., Pine Lake, Mich., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio. Dump-car. No. 1,344,403; June 22; v. 275; p. 729.
International Oxygen Company. (See Benjamin, Edward O., assignor.)
Isell, Frederick. (See Christoffel, Thomas, assignor.)
Jackson, Corwill, Kalamazoo, Mich. Grinder. No. 1,344,733; June 22; v. 275; p. 676.
Jacobs, Charles M., Longmeadow, Mass. Window-sash-locking device. No. 1,344,038; June 22; v. 275; p. 657.
Jacobson, Ole, assignor to Safety Burglar Alarm Co., Grand Rapids, Mich. Burglar-alarm. No. 1,344,178; June 22; v. 275; p. 684.
Jamieson, George G. (See Sweet, F. A., and Jamieson.)
Jandron, Wilfred J., Minneapolis, Minn. Dispensing-cabinet. No. 1,343,974; June 22; v. 275; p. 645.
Jardin, Albert A., Congress Park, Ill. Railway-track appliance. No. 1,344,134; June 22; v. 275; p. 676.
Jenkins, D. C., Glass Company. (See Jenkins, David A., assignor.)
Jenkins, David A., assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Removable top for pitchers and the like. No. 1,344,404; June 22; v. 275; p. 729.
Jensen, Otto H., assignor to The Republic Metalware Company, Buffalo, N. Y. Beading-machine. No. 1,344,405; June 22; v. 275; p. 729.
Jenson, Ole E., Rosebeg, Alberta, Canada. Pouring-spout lid and strainer. No. 1,344,039; June 22; v. 275; p. 658.
Jerram, Arthur E., Leicestershire, England. Precision machine-tool. No. 1,344,536; June 22; v. 275; p. 755.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. (Reissue.) No. 14,891; June 22; v. 275; p. 771.
Johns-Manville, H. W., Company. (See Carson, Clarence, assignor.)
Johnson, Aben E., Hastings, Mich. Package for disassembled vehicle-curtain windows. No. 1,344,135; June 22; v. 275; p. 676.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,344,041; June 22; v. 275; p. 658.
Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Electrical-resistance wire. No. 1,344,406; June 22; v. 275; p. 729.
Johnson, Charley H., Anoka, Minn. Cement-block tamper. No. 1,344,230; June 22; v. 275; p. 694.
Johnson, Tomlinson F., Jr., Atlanta, Ga. Spark-gap indicator. No. 1,344,042; June 22; v. 275; p. 658.
Johnston, Philip D., Cold Spring, N. Y. Internal-combustion engine. No. 1,344,407; June 22; v. 275; p. 729.
Johnstone, James, New York, N. Y. Roller-shade. No. 1,344,448; June 22; v. 275; p. 738.
Jones, Buddington W. (See Barnes, Carl C., assignor.)
Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Manufacture of bromates. No. 1,343,918; June 22; v. 275; p. 635.
Jones, Henry P., *et al.* (See Holdaway, H. H., and Gabel, assignors.)
Jones, Jacob, Issaqnah, Wash. Carbureter attachment. No. 1,344,001; June 22; v. 275; p. 650.
Joyce-Cridland Company, The. (See Ripsch, C. W., Dawley, and Derby.)
Julien, Cyprien E. P., Paris, France. Vehicle-wheel. No. 1,344,512; June 22; v. 275; p. 751.
Jungling, Michael, Washington, D. C. Resilient wheel. No. 1,344,513; June 22; v. 275; p. 751.
Jury, Alfred E., Newark, N. J., assignor to Morgan & Wright. Friction and flexing apparatus for testing materials. No. 1,344,301; June 22; v. 275; p. 709.
Justin, Joel D., Badin, N. C. Automatic gate-operating means for dams. No. 1,344,043; June 22; v. 275; p. 659.
Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)
K. F. & C. Tire & Rubber Corporation. (See Krusemark, F. A., Funkhouser, and Carpenter, assignors.)
Kaestner, Louis W. (See Felsenthal, H., and Kaestner.)
Kahrs, Henry J. (See Tucker, Benjamin W., assignor.)
Kalberer, Gustav, Knoxville, Pa. Tool-holder. No. 1,344,537; June 22; v. 275; p. 756.
Kaminski, Albert, assignor of one-half to A. A. Gmys, Pittsburgh, Pa. Parachute. No. 1,344,044; June 22; v. 275; p. 659.
Kaufman, John, Prairie du Sac, Wis. Spring-hinge. No. 1,344,538; June 22; v. 275; p. 756.
Kehr, Cyrus, trustee. (See Simpson, William F., assignor.)
Kelley, James. (See Reid, P. A. and W. V., and Kelley.)
Kelley, Spencer D., administrator. (See Black, Josiah, assignor.)
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Kelly-Springfield Tire Co. (See Lacroix, J. D., and Petersen, assignors.)
Kelzer, Frank L., Chaska, Minn. Automobile-ventilator. No. 1,343,919; June 22; v. 275; p. 635.
Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Device for attaching bails to container-bodies. No. 1,343,920; June 22; v. 275; p. 635.
Keystone Driller Company. (See Downie, Robert M., assignor.)
Kibler, John B., Girard, Pa. Electric treating and exercising machine. No. 1,344,002; June 22; v. 275; p. 650.
Kidde, Walter. (See Freygang, W. H., Kidde, and Worth.)
Kidde, Walter, & Company. (See Freygang, W. H., Kidde, and Worth, assignors.)
Klewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Driving and stopping mechanism. No. 1,344,345; June 22; v. 275; p. 717.
King, James D., Meridian, Miss. Safety attachment for railway-cars. No. 1,344,231; June 22; v. 275; p. 694.
King, James D., Meridian, Miss. Safety attachment for railway-cars. No. 1,344,232; June 22; v. 275; p. 694.
King, Lewis G., Deposit, N. Y. Air-pump connector for automobiles. No. 1,344,539; June 22; v. 275; p. 756.
King, Thomas W., Long Island City, N. Y. Combined dress-suit case and locker. No. 1,344,408; June 22; v. 275; p. 729.
Kinikin, John L., Garden City, Kans. Self-adjusting curtain-draper. No. 1,344,233; June 22; v. 275; p. 695.
Kirchner, Reinhold, Mobile, Ala. Building-protector. No. 1,344,540; June 22; v. 275; p. 756.
Kirkpatrick, William A., Seattle, Wash. Wrench. No. 1,344,234; June 22; v. 275; p. 695.
Kline, Robert L., Indianapolis, Ind. Artificial-stone making. No. 1,344,087; June 22; v. 275; p. 667.
Klingham, Louis, Cleveland, Ohio., assignor to American Can Company, New York, N. Y. Nozzle-can. No. 1,343,921; June 22; v. 275; p. 635.
Kluever, Fred W., assignor to The C. F. Pease Company, Chicago, Ill. Hinged ruling-pen. No. 1,344,045; June 22; v. 275; p. 659.
Kobe, Shizuo, Cleveland, Ohio. Gas-stove. No. 1,344,136; June 22; v. 275; p. 676.
Koch, Hans. (See Eckert, Karl, assignor.)
Kochendarfer, Strins E., Washington, Pa. Rotary-engine. No. 1,344,137; June 22; v. 275; p. 676.
Koenig, William J., deceased, Brooklyn, N. Y.; A. Allen administratrix. Emergency-lamp; No. 1,344,206; June 22; v. 275; p. 690.
Kopecky, John, Mason City, Iowa. Bank-check. No. 1,344,235; June 22; v. 275; p. 695.
Kothny, Gottdank L. E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control-valve for refrigerating apparatus. No. 1,343,975; June 22; v. 275; p. 645.
Kozik, Joseph, U. S. Army. Protecting screen or shield. No. 1,344,588; June 22; v. 275; p. 766.

Kramer, Benjamin G., assignor to C. G. Fisher and J. A. Allison, Indianapolis, Ind. Brake mechanism. No. 1,344,003; June 22; v. 275; p. 651.
Krauss, Hans G., Munich, Germany. Machine-tool. No. 1,344,236; June 22; v. 275; p. 695.
Krivosky, Frank, and J. Stoykovich, Akron, Ohio. Washer-setter for rubber-heel molds. No. 1,344,237; June 22; v. 275; p. 695.
Krusemark, Frederick A., L. G. Funkhouser, and H. G. Carpenter, assignors to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Cushion-tire. No. 1,344,346; June 22; v. 275; p. 718.
Lacroix, Joseph D., and A. H. Petersen, Akron, Ohio, assignors to Kelly-Springfield Tire Co., New York, N. Y. Mixing-machine. No. 1,344,541; June 22; v. 275; p. 756.
Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal casting-machine. No. 1,344,409; June 22; v. 275; p. 730.
Lafferty, Harry C., New York, N. Y. Clothesline-hook. No. 1,344,589; June 22; v. 275; p. 766.
Laise, Clemens A. (See Liebmann, A. L., and Laise.)
Lancaster Lens Company, The. (See Meth, Max, assignor.)
Lane, James H., Marshalltown, Iowa. Wrench. No. 1,344,542; June 22; v. 275; p. 757.
Langrell, Edward W., Penns Grove, and J. J. Nuss, Carneys Point, N. J. Collapsible crate. No. 1,344,543; June 22; v. 275; p. 757.
Lanning, Charles D., Boston, Mass. Winding mechanism. No. 1,344,449; June 22; v. 275; p. 738.
Larson, Edward E., Thompson, Iowa. Apparatus for reboring cylinders. No. 1,344,410; June 22; v. 275; p. 730.
Larson, Edward E., Thompson, Iowa. Adjustable reamer. No. 1,344,411; June 22; v. 275; p. 730.
Lask, Stephen J., Cleveland, Ohio. Curtain-fixture. No. 1,344,412; June 22; v. 275; p. 730.
Lavalee, William, Central Falls, R. I. Safety-driver for road-vehicles. No. 1,344,238; June 22; v. 275; p. 696.
Lean, Roderick, Manufacturing Company. (See Warne, Frederick C., assignor.)
Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Corset-steel. (Reissue.) No. 14,892; June 22; v. 275; p. 771.
Ledoux, Hector, assignor to The Stafford Company, Readville, Boston, Mass. Selvage-forming device. No. 1,344,413; June 22; v. 275; p. 730.
Lee, Harry A., Kansas City, Mo. Valve-stem packing-cup. No. 1,344,347; June 22; v. 275; p. 718.
Lee, Olaf, Rolette, N. D. Combination-tool. No. 1,344,046; June 22; v. 275; p. 659.
Legal, Leopold. (See Grumme, William F., assignor.)
Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,344,302; June 22; v. 275; p. 709.
Le Page, Charles E., Brooklyn, N. Y. Ash-truck. No. 1,344,047; June 22; v. 275; p. 659.
Lessells, Allan H., New Brighton, England. Electric cable carrying or supporting means. No. 1,344,514; June 22; v. 275; p. 751.
Lewis, Earl A., *et al.* (See Mentzer, Claude E., assignor.)
Liebmann, Alfred J., New York, N. Y., and C. A. Laise, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y. Hardened material for use in the arts as substitutes for diamonds, &c., and making same. No. 1,343,976; June 22; v. 275; p. 645.
Liebmann, Alfred J., New York, N. Y., and C. A. Laise, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y. Hardened material for use in the arts as substitutes for diamonds, &c., and making same. No. 1,343,977; June 22; v. 275; p. 645.
Lisenby Manufacturing Company. (See Livermore, John W., assignor.)
Little, Charles H., Cleveland, Ohio. Method of and material for making drawings and other records. No. 1,343,978; June 22; v. 275; p. 646.
Little, William F., St. Louis, Mo., assignor to Electric Vapor Heater Company, Wilmington, Del. Electric vapor-heater for internal-combustion engines. No. 1,344,303; June 22; v. 275; p. 709.
Livermore, John W., assignor to Lisenby Manufacturing Company, Fresno, Calif. Tractor. No. 1,343,979; June 22; v. 275; p. 646.
Ljungström, Birger, Stockholm, and F. Ljungström, Finspong, assignors to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Air-pump for evacuating air from condensers, refrigerating plants and the like. No. 1,343,922; June 22; v. 275; p. 635.
Ljungström, Birger, Stockholm, assignor to Aktiebolaget Ljungströms Ångturbin, Lidingö-Brevik, Sweden. Spiral-cut gear-wheel. No. 1,343,923; June 22; v. 275; p. 636.
Ljungström, Fredrick. (See Ljungström, B. and F.)
Locke Insulator Mfg. Co., The. (See Goddard, Walter T., assignor.) (Reissue.)
Lockhart, Joseph C., Wellington, Kans. Liquid-fuel burner. No. 1,344,414; June 22; v. 275; p. 731.
Locomotive Superheater Company. (See Schmidt, Wilhelm, assignor.)
Lombardo, Charles, Waterford, N. J. Sash-lock. No. 1,344,048; June 22; v. 275; p. 660.
Longacre, Frederick V. D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Electric welding apparatus. No. 1,344,415; June 22; v. 275; p. 731.
Lorenz, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,344,304; June 22; v. 275; p. 709.
Lorenz, William R., Denver, Colo. Lock-nut. No. 1,344,544; June 22; v. 275; p. 757.
Lough, Hector V., Hartford, Conn., assignor to Universal Fixture Corporation, New York, N. Y. Spacer for panels of display-fixtures. No. 1,344,239; June 22; v. 275; p. 696.
Lovekin, Luther D., Ardmore, Pa. Securing bed-plates to sole-plates. No. 1,344,416; June 22; v. 275; p. 731.
Lovekin, Luther D., Ardmore, Pa. Expansible washer. No. 1,344,417; June 22; v. 275; p. 731.
Lucke, Charles E., New York, N. Y. Producing heat. No. 1,344,049; June 22; v. 275; p. 660.
Ludlow Typograph Company. (See Brasted, Clair H., assignor.)
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,344,305; June 22; v. 275; p. 709.
Lundbom, Mattis, Orebro, Sweden. Stretcher, sick-bed, and the like. No. 1,344,088; June 22; v. 275; p. 667.
Lyons, Arthur H. (See Bickhart, Franklin R., assignor.)
McAllaster, George R., Rochester, N. Y. Folding bed. No. 1,344,450; June 22; v. 275; p. 738.
McAllister, William H., Linden, Pa. Caster. No. 1,344,418; June 22; v. 275; p. 732.
McAuliffe, John E. (See Gilpin, V. C., and McAuliffe.)
McBride, Jesse E., Highland Park, assignor to Palmer-Bee Company, Detroit, Mich. Apparatus for conveying automobile bodies and the like. No. 1,344,419; June 22; v. 275; p. 732.
McCaa, David G., Elizabeth, N. J. Method of and apparatus for electrical communication. No. 1,344,275; June 22; v. 275; p. 703.
McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivator. 1,344,138; June 22; v. 275; p. 677.
McColl, Francis P., Ridgewood, N. J., and W. W. Willison, New York, N. Y., assignors to Thermokept Products Corporation, New York, N. Y. Preserving sensitized photographic surfaces and article. No. 1,344,240; June 22; v. 275; p. 696.
McConway & Torley company, The. (See Milliken, Isaac H., assignor.)
McCorkle, William E., Oak Station, Pa. Nut-depositor for confectionery-machines. No. 1,343,924; June 22; v. 275; p. 636.
McDonald, Alexander, Chicago, Ill. Grain-shocking machine. No. 1,344,348; June 22; v. 275; p. 718.
McDonald, Francess E., Chisuncook, Me. Ticket-holder. No. 1,344,420; June 22; v. 275; p. 732.
McGann, William H., Minneapolis, Minn. Car-door. No. 1,343,925; June 22; v. 275; p. 636.
McGregory, Fred H., Decatur, Ill. Dustless duster. No. 1,344,545; June 22; v. 275; p. 757.
McGuire, John J., Yonkers, N. Y. Convertible automobile-body. No. 1,344,546; June 22; v. 275; p. 757.
McLean, True. (See Parmele, E. A., and McLean.)
McMillan, Howard O., Minneapolis, Minn. Post-splicing clamp. No. 1,344,139; June 22; v. 275; p. 677.
McMillan, Uel S., San Francisco, Calif. Defiberizing redwood bark. No. 1,344,186; June 22; v. 275; p. 685.
McMonagle, Thomas, Bath, Me. Shaving-brush. No. 1,344,050; June 22; v. 275; p. 660.
Macartney, Arthur C., Syracuse, N. Y., assignor to Pine Tree Milking Machine Company. Milking-machine. No. 1,344,140; June 22; v. 275; p. 677.
MacDonald, William T. (See Engelman, E. W., and MacDonald.)
Mackie, Alfred R., Lander, Wyo. Concentrator. No. 1,344,051; June 22; v. 275; p. 660.
MacMillan, William J. (See Sullivan, D. C., Hawkins, and MacMillan.)
Madsen, Viggo J., Fargo, N. D. Reinforced-concrete wall structure. No. 1,343,926; June 22; v. 275; p. 636.
Maier, Henry, Brooklyn, N. Y. Card appliance. No. 1,344,547; June 22; v. 275; p. 757.
Maire, Frank L., *et al.* (See Grosjean, James E., assignor.)
Manker, Charles, Des Moines, Iowa. Oil-burner. No. 1,344,421; June 22; v. 275; p. 732.
Manker, Charles C., Oklahoma, Okla., assignor of one-half to M. J. Morley, Pittsburgh, Pa. Radiator. No. 1,344,422; June 22; v. 275; p. 732.
Manker, Charles C., Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated, Dover, Del. Vaporizer for heavy oils. No. 1,344,423; June 22; v. 275; p. 733.
Marsden, George H., New York, N. Y. Toy. No. 1,344,548; June 22; v. 275; p. 758.
Martin, George C., Los Angeles, Calif. Concrete pipe-making machine. No. 1,344,590; June 22; v. 275; p. 766.
Martin, Harry F., Utica, Kans. Carbon-removing tool. No. 1,344,549; June 22; v. 275; p. 758.
Martin, Harry F., Utica, Kans. Valve-face-cutting tool. No. 1,344,550; June 22; v. 275; p. 758.

Marx, Roland G., Palo Alto, and L. F. Fuller, San Francisco, assignors to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,344,052; June 22; v. 275; p. 660.

Masheck, Louis E., Canton, Ohio. Dusting and deodorizing machine. No. 1,344,551; June 22; v. 275; p. 758.

Mason, Irving W., Aberdeen, Wash. Floor structure. No. 1,344,181; June 22; v. 275; p. 685.

Mason, Ralph B., Somerset, Pa. Agricultural implement. No. 1,344,552; June 22; v. 275; p. 758.

Massatsch, Cornelius, Berlin-Tempelhof, Germany, assignor to The Permutit Company, New York, N. Y. Manufacture of purifying materials. No. 1,343,927; June 22; v. 275; p. 636.

Matloob, Thomas, Paterson, N. J. Shuttle. No. 1,344,553; June 22; v. 275; p. 759.

Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Wet mixer. No. 1,344,306; June 22; v. 275; p. 710.

May, Walter J., Chicago, Ill. Life-preserver. No. 1,343,928; June 22; v. 275; p. 636.

Maytag Company, The. (See Thompson, Herbert L., assignor.)

Measuregraph Company, The. (See Scott, Lewis L., assignor.) (Reissue.)

Meihuizen, Sijtse H., Veendam, Netherlands. Drying apparatus. No. 1,344,241; June 22; v. 275; p. 696.

Mendelsohn, Felix. (See Henius, Max, assignor.)

Mentzer, Claude E., Des Moines, assignor of three sixteenths to H. H. Searle, one-eighth to F. W. Miller, one-eighth to J. F. Griffin, one-eighth to E. A. Lewis, and one-eighth to A. T. Wallace, Des Moines, and one-eighth to M. M. Head, Jefferson, Iowa. Lock device for gear-shift levers. No. 1,344,554; June 22; v. 275; p. 759.

Merrick, Frank W., Boston, Mass. Thread-controlling devices for sewing-machines. No. 1,344,424; June 22; v. 275; p. 733.

Mersman, Joseph, Ottawa, Ohio. Sound-amplifier. No. 1,344,307; June 22; v. 275; p. 710.

Meth, Max, assignor to The Lancaster Lens Company, Lancaster, Ohio. Manufacturing ruby-glass. No. 1,344,141; June 22; v. 275; p. 677.

Metropolitan Sewing Machine Corporation. (See Wels, Albert H., assignor.)

Meyer, Ferdinand Moritz, Saarbrucken, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydraulic ingredient and making same. No. 1,343,929; June 22; v. 275; p. 636.

Meyer, William, Rosedale, Kans. Vending-machine. No. 1,344,142; June 22; v. 275; p. 677.

Mickelson, George A., Vancouver, British Columbia, Canada. Open-face gas-mask. No. 1,344,349; June 22; v. 275; p. 718.

Midgett, Penelton G., assignor of one-half to R. Thomas, Dallas, Tex. Drill-bit. No. 1,344,425; June 22; v. 275; p. 733.

Mietz, August, Corporation. (See Muller, Charles A., assignor.)

Miles, Leonard, Coventry, England. Feeding and measuring device for rolls of sensitized strips employed in photographic cameras. No. 1,344,207; June 22; v. 275; p. 690.

Miller, Arthur J., Warren, Pa. Camera. No. 1,344,182; June 22; v. 275; p. 685.

Miller, Emma T., San Antonio, Tex. Geometric figure. No. 1,344,053; June 22; v. 275; p. 661.

Miller, Fred W., *et al.* (See Mentzer, Claude E., assignor.)

Miller, Ralph, and W. E. Turney, San Francisco, Calif. Ventilating window-section and screen. No. 1,344,054; June 22; v. 275; p. 661.

Milliken, Humphreys, Tenafly, N. J., assignor of one-half to J. B. Taylor, New York, N. Y. Dust-separator. No. 1,344,055; June 22; v. 275; p. 661.

Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,183; June 22; v. 275; p. 685.

Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,184; June 22; v. 275; p. 685.

Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,185; June 22; v. 275; p. 685.

Miner, William H. (See O'Connor, John F., assignor.)

Minert, Theodore R., Milwaukee, Wis. Pump-operating mechanism. No. 1,344,056; June 22; v. 275; p. 661.

Mogni, Charles M., New York, N. Y. Gas-heater. No. 1,344,555; June 22; v. 275; p. 759.

Moler, Harvey T., Philadelphia, Pa. Fastening device for car ornaments. No. 1,344,556; June 22; v. 275; p. 759.

Montgomery, Leon F., *et al.* (See Grosjean, James E., assignor.)

Moore, Albert W. (See Bowersox, Joseph W., assignor.)

Moore, Charles A., St. Paul, Minn. Air-circulating apparatus for cars. No. 1,344,057; June 22; v. 275; p. 661.

Moore, Frank C., Canton, Ohio. Preventing the inner walls of rubber hose from sticking during manufacture. No. 1,344,143; June 22; v. 275; p. 677.

Moore, Hubert. (See Craig, Edward J., assignor.)

Morgan & Wright. (See Jury, Alfred E., assignor.)

Morley-Manker Company. (See Manker, Charles C., assignor.)

Morley, Murray J. (See Manker, Charles C., assignor.)

Morris, George S., Jackson, Mich. Labeling-machine. No. 1,344,426; June 22; v. 275; p. 733.

Morrison, Ralph W., assignor to Cathedral Phonograph Company, Omaha, Nebr. Phonograph attachment. No. 1,344,186; June 22; v. 275; p. 686.

Morse, Mark S., Huntington Park, assignor to Railway Specialties Company, Los Angeles, Calif. Electric signaling. No. 1,344,308; June 22; v. 275; p. 710.

Moscini, John, New York, N. Y., assignor to W. H. Coe Manufacturing Company, Providence, R. I. Metal-leaf-applying device. No. 1,344,427; June 22; v. 275; p. 733.

Mueller, Fred W., California, Mo. Incubator. No. 1,344,591; June 22; v. 275; p. 766.

Muller, Charles A., Islip, assignor to August Mietz Corporation, New York, N. Y. Controlling mechanism for internal-combustion engines. No. 1,343,980; June 22; v. 275; p. 646.

Mumford Molding Machine Company. (See Gates, Philetus W., assignor.)

Murphy Engineering Company. (See Murphy, Peter W., assignor.)

Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Wear take-up for slides. No. 1,344,592; June 22; v. 275; p. 767.

Myers, William R., Hampton, Va. Fire-bucket. No. 1,344,557; June 22; v. 275; p. 759.

Naber, Moses H., Chicago, Ill. Shock-absorber. No. 1,344,593; June 22; v. 275; p. 767.

Nash, John M., Wauwatosa, Wis. Wood sanding or polishing machine. No. 1,343,981; June 22; v. 275; p. 646.

National Electrical Supply Company. (See Johnson, Albert H., assignor.)

Neely, Joseph A., McRoberts, Ky. Attaching device for trolley-hangers. No. 1,343,930; June 22; v. 275; p. 637.

Nees, Ludwig B. (See Cressler, A. B., Nees, and Baumbach.)

Neikirk, John O., Lombard, Ill., assignor to Rodger Ballast Car Company. Drop-door for railway-cars. No. 1,344,208; June 22; v. 275; p. 690.

New Jersey Foundry and Machine Company. (See Hescock, E. N., and Smith, assignors.)

New York Belting & Packing Company. (See Gilson, Henry R., assignor.)

Newell, George T., Jr., Beverly, N. J. Electrical preheating attachment for automobile intake-manifolds. No. 1,344,242; June 22; v. 275; p. 696.

Newton, Frank J., assignor of one-half to E. E. Wallace, Sandwich, Ill. Shield for headlights. No. 1,344,594; June 22; v. 275; p. 767.

Nieukirk, John W., Gary, Ind. Aeroplane-shell. No. 1,344,558; June 22; v. 275; p. 760.

Nilsson, Anton L. V., Tularosa, N. Mex. Plastic composition. No. 1,344,058; June 22; v. 275; p. 662.

Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe and tube saw. No. 1,344,428; June 22; v. 275; p. 734.

Nordlund, Erland. Stockholm, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Roller bearing. No. 1,344,276; June 22; v. 275; p. 704.

Norelius, Emil F., Peoria, Ill., and W. Turnbull, assignors to The Holt Manufacturing Company, Stockton, Calif. Cooling-radiator. No. 1,344,351; June 22; v. 275; p. 718.

Norland, Torvald G., Stavanger, Norway. Smoking and drying apparatus for fish or the like. No. 1,344,350; June 22; v. 275; p. 718.

Northwind Spark Plug Corporation. (See Cammen, L., and Ofeldt, assignors.)

Nuss, John J. (See Langrell, E. W., and Nuss.)

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,344,309; June 22; v. 275; p. 710.

Odell, George W., Montreal, Quebec, Canada. Time-card-clipping machine. No. 1,344,059; June 22; v. 275; p. 662.

Ofeldt, August W. (See Cammen, L., and Ofeldt.)

Ohmacht, August L. W., Cresco, Iowa. Radiator-support. No. 1,344,559; June 22; v. 275; p. 760.

Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)

Oliver, William J., Christchurch, New Zealand. Lifting or sling hook. No. 1,344,187; June 22; v. 275; p. 686.

Oravec, John, Galeton, Pa. Freight-car. No. 1,344,243; June 22; v. 275; p. 697.

Packard, James A., assignor to Packard Stoker Corporation of America, Milwaukee, Wis. Furnace-grate. No. 1,344,144; June 22; v. 275; p. 678.

Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Packard Stoker Corporation of America. (See Packard, James A., assignor.)

Palmer-Bee Company. (See McBride, Jesse E., assignor.)

Palmer, John F., Riverside, Ill. Carcass fabric for pneumatic tires. No. 1,344,145; June 22; v. 275; p. 678.

Parker, Norman C., Chicago, Ill. Protective pad for stairs. No. 1,344,310; June 22; v. 275; p. 711.

Parmele, Edward A., and T. McLean, Staten Island, N. Y. Steering apparatus. No. 1,344,352; June 22; v. 275; p. 719.

Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Worm-wheel cutter. No. 1,343,982; June 22; v. 275; p. 646.

Parsons, Charles A., S. S. Cook, and A. J. Aldis, Wallsend, England; said Cook and said Aldis assignors to said Parsons. Turbine-blade attachment. No. 1,344,311; June 22; v. 275; p. 711.

Paterson, Frank E., Clarksburg, W. Va. Apparatus for producing carbon black. No. 1,344,060; June 22; v. 275; p. 662.

Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. No. 1,344,209; June 22; v. 275; p. 690.

Patterson, John T., Detroit, Mich. Modification of planes when stationary and moving. No. 1,344,244; June 22; v. 275; p. 697.

Patterson, Robert H., Winchester, Ky. Wire-fence stretcher. No. 1,344,312; June 22; v. 275; p. 711.

Pease, C. F., Company, The. (See Kluever, Fred W., assignor.)

Peck, Charles B., Suffern, N. Y. Dust-collector. No. 1,344,146; June 22; v. 275; p. 678.

Pelletier, Charles O., Oakland, Calif. Folding bed. No. 1,344,188; June 22; v. 275; p. 686.

Permutit Company, The. (See Massatsch, Cornelius, assignor.)

Petermann, Joseph, Philadelphia, Pa. Apparatus for cutting and breaking asphalt or concrete. No. 1,344,560; June 22; v. 275; p. 760.

Petersen, August H. (See Lacroix, J. D., and Petersen.)

Peterson, Oscar A., and O. M. Brancel, Minneapolis, Minn. Vulcanizing-tool. No. 1,344,313; June 22; v. 275; p. 711.

Phelps Can Company. (See Phelps, Walter J., assignor.)

Phelps, Walter J., Baltimore, Md., assignor to Phelps Can Company, Weirton, W. Va. Can-tester. No. 1,344,515; June 22; v. 275; p. 751.

Philadelphia Storage Battery Company. (See Bottone, Victor R., assignor.)

Phillips, Fred V., assignor of one-half to G. R. Cogswell, Rome, N. Y. Bottle-cap. No. 1,344,516; June 22; v. 275; p. 751.

Phillips, John H., Yonkers, N. Y. Article of furniture. No. 1,344,277; June 22; v. 275; p. 704.

Piehl, Anthony J., St. Louis, Mo. Carbureter. No. 1,343,983; June 22; v. 275; p. 646.

Pierce, Arthur E., Portland, Oreg. Umbrella or parasol holder. No. 1,344,245; June 22; v. 275; p. 697.

Pierce, Harry L., East Downingtown, Pa. Aeroplane. No. 1,344,314; June 22; v. 275; p. 711.

Pine Tree Milking Machine Company. (See Macartney, Arthur C., assignor.)

Pioneer Broom Company. (See Christopher, William M., assignor.)

Piper, George M., Cedar Falls, Iowa, assignor, by mesne assignments, to Sharon Hardware Manufacturing Company, Sharon, Pa. Door-hanger. (Reissue.) No. 14,893; June 22; v. 275; p. 771.

Platt, Leo, New York, N. Y. Camisole. No. 1,344,004; June 22; v. 275; p. 651.

Poe Range Company, The. (See Poe, Robert L., assignor.)

Poe, Robert L., assignor to The Poe Range Company, Chicago, Ill. Range. No. 1,344,061; June 22; v. 275; p. 662.

Poehner, Conrad, Cincinnati, Ohio. Ventilating-window. No. 1,344,561; June 22; v. 275; p. 760.

Poland, Edward F., Boston, Mass. Washing-machine. No. 1,344,089; June 22; v. 275; p. 667.

Pond, Oscar L. (See Zehringer, Howard A., assignor.)

Post Card Vending Machine Company. (See Wright, Charles B., assignor.)

Post, Charles R., New York, N. Y. Wind-indicator. No. 1,344,315; June 22; v. 275; p. 711.

Potter, Earl C., Chicago, Ill., assignor, by mesne assignments, to Sefton Manufacturing Corporation, Millbrook, N. Y. Shipping-box. No. 1,344,147; June 22; v. 275; p. 678.

Pratt, David S. (See Hedenburg, O. F., and Pratt.)

Preble, Henry T., Stockton, Calif. Self-propelled vehicle. No. 1,344,353; June 22; v. 275; p. 719.

Probasco, Purley O., Buhl, Idaho. Auto-rim tool. No. 1,344,562; June 22; v. 275; p. 760.

Promenschenkel, Joseph W., Shelby, Ohio. Ear-snapping and corn-husking machine. No. 1,344,563; June 22; v. 275; p. 761.

Public Service Cup Company. (See Errett, Charles, assignor.)

Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gripper mechanism. No. 1,344,316; June 22; v. 275; p. 712.

Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Web-printing machine. No. 1,343,931; June 22; v. 275; p. 637.

Rafn, Robert, Moss, Norway. Conveyer. No. 1,344,246; June 22; v. 275; p. 697.

Ragan, Frederick H., assignor to Gemmer Manufacturing Company, Detroit, Mich. Steering-gear. No. 1,344,005; June 22; v. 275; p. 651.

Raia, Charles S., Garfield, N. J. Ice-cream cutter. No. 1,343,932; June 22; v. 275; p. 637.

Railway Specialties Company. (See Morse, Mark S., assignor.)

Ramos, Rafaél and A. de Cardenas, Aguada de Pasajeros, Cuba. Device for connecting ox-yokes to cart-poles. No. 1,344,354; June 22; v. 275; p. 719.

Ramsey, Joseph H., Albany, N. Y. Pocket game-board. No. 1,343,984; June 22; v. 275; p. 647.

Rassmann, Hugo C., Beaver Dam, Wis. Watering device for cattle. No. 1,344,189; June 22; v. 275; p. 686.

Ratekin, William J., Oakes, N. D. Grate. No. 1,344,062; June 22; v. 275; p. 662.

Reamy, Christopher S., Los Angeles, Calif. Heel-cutter. No. 1,344,247; June 22; v. 275; p. 697.

Reisamen, Emmett J., St. Louis, Mo. Keyless lock. No. 1,344,517; June 22; v. 275; p. 752.

Reece Button Hole Machine Company, The. (See Kiewicz, John, assignor.)

Rees, Edmund S. G., Wolverhampton, England. Propulsion and steering of ships. No. 1,344,518; June 22; v. 275; p. 752.

Reese, Frank, Minneapolis, Minn. Screen for swinging sash. No. 1,343,933; June 22; v. 275; p. 637.

Reeve, Henry E., New York, N. Y. Fuel-regulator. (Reissue.) No. 14,894; June 22; v. 275; p. 771.

Reeve, Henry E., New York, N. Y. Fuel-regulator. (Reissue.) No. 14,895; June 22; v. 275; p. 772.

Reid, Pettis A. and W. V., and J. Kelley, Richmond, Ind.; said W. V. Reid and J. Kelley assignors to said P. A. Reid. Wire-fabric machine. No. 1,344,595; June 22; v. 275; p. 767.

Reid, Walter V. (See Reid, P. A. and W. V., and Kelley.)

Republic Metalware Company, The. (See Jensen, Otto H., assignor.)

Research Corporation. (See Bradley, Linn, assignor.)

Reynolds, Reginald, Riverside, Conn. Thread package or holder. No. 1,343,934; June 22; v. 275; p. 637.

Rice, Merritt, Colchester, Ill. Method and device for producing plates for artificial teeth. No. 1,343,935; June 22; v. 275; p. 638.

Rice, John A., San Francisco, Calif. Centrifugal ore-separator. No. 1,344,519; June 22; v. 275; p. 752.

Richard, Maurice L. J., Quebec, Quebec, Canada. Toy. No. 1,344,451; June 22; v. 275; p. 739.

Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone-repeater. No. 1,344,210; June 22; v. 275; p. 690.

Ricker, George E., Fitzgerald, Ga. Electric lamp. No. 1,344,429; June 22; v. 275; p. 734.

Riley, Willis L., Mellen, Wis. Steam-superheater. No. 1,344,211; June 22; v. 275; p. 690.

Ripsch, Charles W., J. C. Dawley, and C. D. Derby, assignors to The Joyce-Cridland Company, Dayton, Ohio. Lifting-jack. No. 1,344,117; June 22; v. 275; p. 672.

Rockoln, Arthur E., Sandford Deen, Saskatchewan, Canada. Grain-pickler. No. 1,344,148; June 22; v. 275; p. 678.

Rodenbur, John P., Duluth, Minn. Signal-carrying case. No. 1,344,564; June 22; v. 275; p. 761.

Rodger Ballast Car Company. (See Neikirk, John O., assignor.)

Rogers, George D., Cleveland, Ohio. High-tension discharge apparatus. (Reissue.) No. 14,896; June 22; v. 275; p. 772.

Roth, Charles, Brooklyn, N. Y. Automobile signal device. No. 1,344,355; June 22; v. 275; p. 719.

Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Electrolier. No. 1,344,452; June 22; v. 275; p. 739.

Roth, Peter O., New York, N. Y. Toy airplane. No. 1,344,520; June 22; v. 275; p. 752.

Rounds, William H., Sioux Falls, S. D. Demountable rim. No. 1,344,212; June 22; v. 275; p. 691.

Rousseau, Joseph H., and A. Coté, Trois Pistoles, Quebec, Canada. Flour-mill. No. 1,344,453; June 22; v. 275; p. 739.

Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.) (Reissue.)

Rudolph, George E., Chicago, Ill. Conveying mechanism for broom-corn machines. No. 1,344,066; June 22; v. 275; p. 651.

Ruiz, Carlos, Hartford, Conn. Fraction-adding machine. No. 1,344,190; June 22; v. 275; p. 686.

Russel, Albert W., assignor to Russel Motor Axle Company, Detroit, Mich. Vehicle-axle. No. 1,344,150; June 22; v. 275; p. 679.

Russel Motor Axle Company. (See Russel, Albert W., assignor.)

Rust, John, Kalamazoo, Mich. Adjustable bed. No. 1,343,985; June 22; v. 275; p. 647.

Safety Burglar Alarm Co. (See Jacobson, Ole, assignor.)

Sahr, Frank, Delaware, Ohio. Shoe-heel. No. 1,344,356; June 22; v. 275; p. 719.

Sairanen, Ernest, Minneapolis, Minn. Combined automobile and motor-boat. No. 1,344,317; June 22; v. 275; p. 712.

Samotej, John, New York, assignor of one-half to W. Samotej, Brooklyn, N. Y. Manufacture of thread-gages. No. 1,344,607; June 22; v. 275; p. 770.

Samotej, Witold. (See Samotej, John, assignor.)

Sangoff, Peter, Quincy, Mass. Ship-protector. No. 1,344,151; June 22; v. 275; p. 679.

Schaefer, Frederick, Pittsburgh, Pa. Brake-pin. No. 1,344,596; June 22; v. 275; p. 767.

Schlicker, Herman C., Milwaukee, Wis. Drink-mixing device. No. 1,344,565; June 22; v. 275; p. 761.

Schmidt, Christ, Monroe, Wash. Safety-crank. No. 1,344,521; June 22; v. 275; p. 752.

Schmidt, Wilhelm, Cassel-Wilhelmshöhe, Germany, assignor, by mesne assignments, to Locomotive Superheater Company. Means for cooling the pistons of internal-combustion engines. No. 1,344,090; June 22; v. 275; p. 667.

Schmitz, Richard, Chicago, Ill. Clutch. No. 1,344,597; June 22; v. 275; p. 767.

Schmitz, Richard, Chicago, Ill. Brake. No. 1,344,598; June 22; v. 275; p. 768.

Schweitzer, Edmund O., Chicago, and N. J. Conrad, Wilmette, assignors to Schweitzer & Conrad, Chicago, Ill. Means for extinguishing arcs. (Reissue.) No. 14,897; June 22; v. 275; p. 772.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable tire for the wheels of gun-carriages and other vehicles: No. 1,343,936; June 22; v. 275; p. 638.

Schneider, Peter, Oswego, N. Y. Car-door hanger. No. 1,344,454; June 22; v. 275; p. 739.

Schoenkerman, Bern S., Milwaukee, Wis. Tablet-press. No. 1,344,091; June 22; 275; p. 667.

Schreiber, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Water-heating device. No. 1,343,937; June 22; v. 275; p. 638.

Schroeder, Anthony, Cleveland, Ohio. Metal container. No. 1,344,455; June 22; v. 275; p. 739.

Schroeder, Anthony, Cleveland, Ohio. Metallic container. No. 1,344,456; June 22; v. 275; p. 740.

Schroeder, Anthony, Cleveland, Ohio. Bung for metal barrels and the like. No. 1,344,457; June 22; v. 275; p. 740.

Schurr, Henry, Philadelphia, Pa. Car-fender. No. 1,344,213; June 22; v. 275; p. 691.

Scott, Lewis L., St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company. Cloth-measuring machine. (Reissue.) No. 14,898; June 22; v. 275; p. 772.

Searle, Herbert H., *et al.* (See Mentzer, Claude E., assignor.)

Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,344,063; June 22; v. 275; p. 663.

Sefton Manufacturing Corporation. (See Potter, Earl C., assignor.)

Segura, Julian, New York, N. Y. Solder for aluminum. No. 1,344,566; June 22; v. 275; p. 761.

Sennett, Walter C., Portland, Me. Automobile-signal. No. 1,344,152; June 22; v. 275; p. 679.

Shafer, Homer R., Detroit, Mich. Resilient wheel. No. 1,343,986; June 22; v. 275; p. 647.

Sharon Hardware Manufacturing Company. (See Piper, George M., assignor.) (Reissue.)

Shaver, George F., New York, N. Y., assignor to The Hydragas Corporation. Increasing the power of gas-engines. No. 1,343,938; June 22; v. 275; p. 638.

Shaw, Harry, Chicago, Ill. Adjustable stool or chair. No. 1,344,092; June 22; v. 275; p. 668.

Sherwin-Williams Company. (See Holton, Edward C., assignor.) (Reissue.)

Schweitzer & Conrad. (See Schweitzer, E. O., and Conrad, assignors.) (Reissue.)

Shirer, George A., Pittsburgh, Pa. Artificial hand. No. 1,344,357; June 22; v. 275; p. 720.

Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Production of aluminum nitrid and the like. No. 1,344,153; June 22; v. 275; p. 679.

Shogren, Charles A., Chicago, Ill. Metal-frame screen. No. 1,344,093; June 22; v. 275; p. 668.

Shoopman, Andrew, Vera, Tex. Quick-adjustable wrench. No. 1,344,154; June 22; v. 275; p. 679.

Shoup, Clement A., Toledo, Ohio. Endless razor-strop and cabinet. No. 1,344,522; June 22; v. 275; p. 753.

Shurloc Elevator Safety Co. Inc. (See Dunford, William T., assignor.)

Sickler, Raymond R., Wausau, Wis. Feed-box. No. 1,344,094; June 22; v. 275; p. 668.

Simpson, Emory G., assignor to Ternstedt Manufacturing Co., Detroit, Mich. Curtain-roller. No. 1,344,358; June 22; v. 275; p. 720.

Simpson, William D., Columbia, S. C. Nut-marking machine. No. 1,344,007; June 22; v. 275; p. 651.

Simpson, William F., assignor to C. Kehr, trustee, Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,344,155; June 22; v. 275; p. 680.

Skala, Yaro, Cleveland, Ohio. Hood-support for automobiles. No. 1,344,095; June 22; v. 275; p. 668.

Slye, John Q., and S. H. Bishop, Washington, D. C. Support for moth-repellent holders. No. 1,344,318; June 22; v. 275; p. 712.

Smith, Ernest F. (See Hescock, E. N., and Smith.)

Smith, James T., Newark, N. J. Leather-press. No. 1,344,214; June 22; v. 275; p. 691.

Smith, William A., Springfield, Mo. Necktie form and holder. No. 1,344,248; June 22; v. 275; p. 697.

Smith, William G. (See Badger, T. N., and Smith.)

Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Furnace. No. 1,344,458; June 22; v. 275; p. 740.

Smythe, S. R., Company The. (See Smythe, Horace E., assignor.)

Societe Francaise d'Editions Photo-Cartographiques. (See Arnold, Henry, assignor.)

Soeders, Joseph. (See Clogston, Melvin, assignor.)

Soss, Joseph, New York, N. Y. Hinge. (Reissue.) No. 14,899; June 22; v. 275; p. 773.

Soulliard, James J., Chicago, Ill. Toy. No. 1,344,064; June 22; v. 275; p. 663.

Speidel, Edwin F. M., Edgewood, assignor to Automatic Gold Chain Company, Providence, R. I. Catch device. No. 1,343,939; June 22; v. 275; p. 638.

Sprague, Charles B., assignor to Diamond Iron Works, Minneapolis, Minn. Resawing-machine. No. 1,344,096; June 22; v. 275; p. 668.

Squire, Gayle L., Hastings, Fla. Barrel, wine, and lard press. No. 1,344,156; June 22; v. 275; p. 680.

Stafford Company, The. (See Le Doux, Hector, assignor.)

Standard Stoker Company. (See Carey, James A., assignor.)

Steinbart, Alfred. (See Hewitt, G. W., and Steinbart.)

Steinhorn, Otto, Arlington, Minn. Threshing-machine. No. 1,344,599; June 22; v. 275; p. 768.

Steinmeier, William F. (See Wright, Jefferson G., assignor.)

Sterling Bronze Company. (See Roth, Louis, assignor.)

Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Variable-speed-transmission gearing. No. 1,344,319; June 22; v. 275; p. 712.

Stewart, Frederick W., Beaver, Pa. Glass-pressing machine. No. 1,343,987; June 22; v. 275; p. 647.

Stewart-Warner-Speedometer Corporation. (See Genn, John E., assignor.)

Stewart, William H., Boston, Mass. Sewer-cleaning apparatus. No. 1,344,249; June 22; v. 275; p. 698.

Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. No. 1,344,065; June 22; v. 275; p. 663.

Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Shuttle for side-motion-feeler looms. No. 1,344,066; June 22; v. 275; p. 663.

Stoeser, Walter G., Seattle, Wash., assignor of one-half to A. Wetstein, Portland, Oreg. Fuse-plug. No. 1,344,359; June 22; v. 275; p. 720.

Stone, Claude C., *et al.* (See Crays, Oscar M., assignor.)

Stoney, John T., Cleveland, Ohio. Molding-machine. No. 1,343,940; June 20; v. 275; p. 639.

Stoney, John T., Cleveland, Ohio. Making molds. No. 1,343,941; June 22; v. 275; p. 639.

Stoykovich, Josef. (See Krivosky, F., and Stoykovich.)

Stransky, Stephen, Darby, Pa. Foldable screened chair. No. 1,344,097; June 22; v. 275; p. 669.

Stratton, Charles E. (See Burns, Robert L., assignor.)

Stratton, Louis F., Charlotte, N. C. Coil-winder. No. 1,344,567; June 22; v. 275; p. 761.

Straube Piano Company. (See Betz, William G., assignor.)

Streby, Ray D., Canal Fulton, assignor to The Fulton-Kenova Mine Car Company, Cleveland, Ohio. Wheel construction No. 1,324,600; June 22; v. 275; p. 768.

Streibich, John C., Little Rock, Ark. Removable barrel-head. No. 1,344,098; June 22; v. 275; p. 669.

Strickland Company, The. (See Strickland, David J., assignor.)

Strickland, David J., assignor to The Strickland Company, Cleveland, Ohio. Automatic brick-making machine. No. 1,344,099; June 22; v. 275; p. 669.

Strickland, David J., assignor to The Strickland Company, Cleveland, Ohio. Automatic brick-making machine. No. 1,344,278; June 22; v. 275; p. 704.

Sullivan, Daniel C., and G. L. Hawkins, Elizabeth, and W. J. MacMillan, Roselle, assignors of one-half to D. C. Sullivan, Elizabeth, N. J., and one-half to Amion Engineering & Contracting Company, New York, N. Y. Wire-drawing machine. No. 1,344,568; June 22; v. 275; p. 761.

Sweeney, Ulysses G., Fresno, Calif. Tack-holder. No. 1,344,157; June 22; v. 275; p. 680.

Sweet, Frederick A., Salt Lake City, Utah, and G. G. Jamieson, Oakland, Calif. Coaling-barge. No. 1,344,459; June 22; v. 275; p. 740.

Sweet, Frederick A., Salt Lake City, Utah. Car-wheel. No. 1,344,460; June 22; v. 275; p. 740.

Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,344,215; June 22; v. 275; p. 691.

Swindall, Albert J. (See Connell, H. G., and Swindall.)

Switzer, Judson, Portland, Oreg. Gage. No. 1,344,569; June 22; v. 275; p. 762.

Tadakuma, Seizi, Los Angeles, Calif. Snap-fastener for shoes. No. 1,343,942; June 22; v. 275; p. 639.

Tait, Alfred D., Evanston, Ill. Dumping-truck. No. 1,344,100; June 22; v. 275; p. 669.

Tamburini, Matteo, Paterson, N. J. Loom-clock. No. 1,343,988; June 22; v. 275; p. 648.

Tate-Jones & Co. (See Buell, William C., Jr., assignor.)

Taylor, Joseph B. (See Milliken, Humphreys, assignor.)

Teetor Company. (See Teetor, Martin, assignor.)

Teetor, Martin, assignor to Teetor Company, Des Moines, Iowa. Calculating-machine. No. 1,344,191; June 22; v. 275; p. 687.

Tenney, H. O. (See Thomas, Edwin E., assignor.)

Ternstedt Manufacturing Co. (See Simpson, Emory G., assignor.)

Thermokept Products Corporation. (See McColl, F. P., and Willson, assignors.)

Thomas, Charles W., Wayne, Pa. Refractory product and making same. No. 1,344,461; June 22; v. 275; p. 741.

Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Combination-wrench. No. 1,344,191; June 22; v. 275; p. 669.

Thomas, Rosser. (See Midgett, Penelton G., assignor.)

Thomas, Steve, Macclenny, Fla. Grapple-hook for skidding logs. No. 1,344,320; June 22; v. 275; p. 712.

Thompson, Herbert L., assignor to The Maytag Company, Newton, Iowa. Spark control and governor for internal-combustion engines. No. 1,343,943; June 22; v. 275; p. 639.

Thoro Corporation, The. (See Wolters, Leon A., assignor.)

Thorold, Frederick W., Toronto, Ontario, Canada. Making and transporting solutions. No. 1,344,102; June 22; v. 275; p. 670.

Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Compensating device for thermo-couples. No. 1,344,462; June 22; v. 275; p. 741.

Thwing Instrument Company. (See Thwing, Charles B., assignor.)

Tilney, Mary G., Mobile, Ala. Flower-holder. No. 1,344,526; June 22; v. 275; p. 754.

Toledo Rex Spray Company, The. (See Hedenburg, O. F., and Pratt, assignors.)

Toledo Shower Company, The. (See Treese, George E., assignor.)

Tomada, Jichio, Hynes, Calif. Speed-changing-gear system. No. 1,343,944; June 22; v. 275; p. 639.

Topping, Henry, Ashley, Ill. Saw-handle. No. 1,344,103; June 22; v. 275; p. 670.

Towers, Jesse, Cornwall, Ontario, Canada, assignor to Draper Corporation, Hopedale, Mass. Warp-opening mechanism for looms. No. 1,344,067; June 22; v. 275; p. 663.

Treese, George E., assignor to The Toledo Shower Company, Toledo, Ohio. Shower and cleaning device. No. 1,344,008; June 22; v. 275; p. 652.

Truby, Franklin J., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,343,989; June 22; v. 275; p. 648.

Trucksess, Robert G., Millersville, Pa. Auditorium-chair. No. 1,344,216; June 22; v. 275; p. 691.

Tucker, Benjamin W., South Orange, N. J., assignor to H. J. Kahrs, New York, N. Y. Clothespin-machine No. 1,344,217; June 22; v. 275; p. 692.

Tucker, William A., Austin, Tex. Liquid-fuel burner No. 1,343,945; June 22; v. 275; p. 640.

Turnbull, William. (See Norelius, E. F., and Turnbull.)

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction engine. No. 1,344,360; June 22; v. 275; p. 720.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Multiple-disk clutch. No. 1,344,361; June 22; v. 275; p. 720.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Governor-controlled throttle-valve. No. 1,344,362; June 22; v. 275; p. 721.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,344,363; June 22; v. 275; p. 721.

Turner, Edward A., Casper, Wyo. Transferable cradle. No. 1,344,009; June 22; v. 275; p. 652.

Turney, William E. (See Miller, R., and Turney.)

Tyrrell, Claude U., Chicago, Ill. Bubble-blower. No. 1,344,104; June 22; v. 275; p. 670.

Uhl, Robert E., Greenfield, Ohio. Supporter. No. 1,344,068; June 22; v. 275; p. 664.

Underwood Typewriter Company. (See Funk, Rufus B., assignor.)

Underwood Typewriter Company. (See Lorenz, William A., assignor.)

Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)

Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)

United Filters Corporation. (See Sweetland, Ernest J., assignor.)

United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)

United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)

United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)

United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)

United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)

United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)

United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)

Universal Fixture Corporation. (See Lough, Hector V., assignor.)

Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)

Urbina, Fernando, Mexico, Mexico. Pipe-line. No. 1,344,321; June 22; v. 275; p. 712.

Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Forming tubes. No. 1,344,105; June 22; v. 275; p. 670.

Vandenburgh, Warren E., and G. S. Grems, Milford, Iowa. Reinforcement for wheel knuckle joints. No. 1,344,192; June 22; v. 275; p. 687.

Vapor Car Heating Company, Inc. (See Schreiber, Edward A., assignor.)

Varley Duplex Magnet Company. (See Anderson, James C., assignor.)

Varley Duplex Magnet Company. (See Varley, Richard, assignor.)

Varley, Richard, Englewood, N. J. Electrical system. No. 1,344,463; June 22; v. 275; p. 741.

Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Circuit-controller for explosive-engines. No. 1,344,464; June 22; v. 275; p. 741.

Vaudreuil, Edward J., Eau Claire, Wis. Preparing green beans for canning: No. 1,344,069; June 22; v. 275; p. 664.

Verdesca, Arthur, West New York, N. J. Air-hammer attachment. No. 1,344,523; June 22; v. 275; p. 753.

Vervoort, Lambert H., New York, N. Y. Bearing. No. 1,344,524; June 22; v. 275; p. 753.

Vibration Specialty Company. (See Aklimoff, Nicholas W., assignor.)

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,344,279; June 22; v. 275; p. 704.

Vlrag, John, Dayton, Ohio. Signal and gate-operating means for railway-crossings. No. 1,344,525; June 22; v. 275; p. 753.

Vis, George A., assignor, by mesne assignments, to Brown-McLaren Manufacturing Co., Detroit, Mich. Valve. No. 1,344,364; June 22; v. 275; p. 721.

Vosper, William W., Toledo, Ohio. Power means for work threading or cutting units. No. 1,344,280; June 22; v. 275; p. 704.

Wachenheimer Bros. (See Wachenheimer, Harry, assignor.)

Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Bracelet. No. 1,344,365; June 22; v. 275; p. 721.

Waern, James D., South Melbourne, Victoria, Australia. Shaft-hanger or plumber-block. No. 1,344,527; June 22; v. 275; p. 754.

Wahl Company, The. (See Boa, Robert G. C., assignor.)

Waigren, John A., Decatur, Ill. Collapsible container. No. 1,344,601; June 22; v. 275; p. 768.

Walk, Jasper J., Oakland, Calif. Rotating internal-combustion engine. No. 1,344,158; June 22; v. 275; p. 680.

Walker, Harry R., Galatia, Ill. Intensifier. No. 1,344,528; June 22; v. 275; p. 754.

Walker, Richard E., Roanoke, Va. Convertible railway-car. No. 1,344,322; June 22; v. 275; p. 713.

Walker, Richard E., Roanoke, Va. Convertible railway-car. No. 1,344,323; June 22; v. 275; p. 713.

Walker, William F., Chicago, Ill. Mail-box. No. 1,344,281; June 22; v. 275; p. 704.

Wallace, Arthur T., *et al.* (See Mentzer, Claude E., assignor.)

Wallace, Erwin E. (See Newton, Frank J., assignor.)

Wallace, Herbert A., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,344,070; June 22; v. 275; p. 664.

Walter, Ernest, Montclair, N. J. Light-weight artificial cement stone for building purposes. No. 1,344,324; June 22; v. 275; p. 713.

Wappat, Fred W., Pittsburgh, Pa. Reversing mechanism. No. 1,344,606; June 22; v. 275; p. 770.

Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Disk harrow. No. 1,344,159; June 22; v. 275; p. 680.

Warner, Emill, Chicago, Ill. Apparatus for forming metallic tubes. No. 1,343,946; June 22; v. 275; p. 640.

Warner, Stewart G., Lynn, Mass. Clutch-lever stop for motor-vehicles. No. 1,344,602; June 22; v. 275; p. 769.

Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Wall-paper and making it. No. 1,344,570; June 22; v. 275; p. 762.

Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Paper-making apparatus. No. 1,344,603; June 22; v. 275; p. 769.

Wartman, Alven L., Oakland, Calif. Rail-joint. No. 1,344,604; June 22; v. 275; p. 769.

Washington, George W., Columbus, Miss. Float-operated circuit-closer. No. 1,343,947; June 22; v. 275; p. 640.

Wassell, Clifford R., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill. Electric heating element. No. 1,344,282; June 22; v. 275; p. 705.

Webb, John W., Chicago, Ill. Flying-machine. No. 1,344,283; June 22; v. 275; p. 705.

Weber, Christopher J. M. (See Weber, Frank R. and C. J. M.)

Weber, Frank R. and C. J. M., St. Paul, Minn. Oiling device for journal-boxes. No. 1,344,465; June 22; v. 275; p. 741.

Webster, Edward L., Wheatland, Wyo. Envelop. No. 1,344,071; June 22; v. 275; p. 664.

Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Sewing mechanism. No. 1,344,284; June 22; v. 275; p. 705.

Wells, Chandler, Buffalo, N. Y. Windshield or the like. No. 1,344,010; June 22; v. 275; p. 652.
Wennerström, Karl G., Bartange, Sweden. Producing cement of liquid slags in electric furnaces. No. 1,343,948; June 22; v. 275; p. 640.
Wenning, John, New York, N. Y. Automobile-lock. No. 1,343,990; June 22; v. 275; p. 648.
Westbury, William, Okmulgee, Okla. Drawing glass cylinders. No. 1,344,325; June 22; v. 275; p. 713.
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kothny, Gottdank L. E., assignor.)
Wetstein, Adolph. (See Stoeser, Walter G., assignor.)
Wheatley, Leander D., Pendleton, Oreg. Advertising device. No. 1,344,250; June 22; v. 275; p. 698.
Whitaker, Dorothy V. D., Philadelphia, Pa. Sleeve-protector. No. 1,344,011; June 22; v. 275; p. 652.
Whitaker, George S., Gloversville, N. Y. Vacuum-cup-fastening means for dental suction-plates. No. 1,343,949; June 22; v. 275; p. 640.
Whitaker, George S., Gloversville, N. Y. Dental suction-plate. No. 1,343,950; June 22; v. 275; p. 640.
White, James W., Bainbridge, Ga. Window. No. 1,344,529; June 22; v. 275; p. 754.
Whitney, Irving E., West Norwalk, Conn. Accelerator-pedal for automobiles. No. 1,344,466; June 22; v. 275; p. 741.
Whitney Machine Company. (See Whitney, Robert F., assignor.)
Whitney, Robert F., assignor to Whitney Machine Company, Winchester, Mass. Leather-working machine. No. 1,344,467; June 22; v. 275; p. 742.
Wigmore, William J., Oakland, and Oscar H. Fiddes, San Francisco, Calif. Electromagnetic elevator-door lock. No. 1,344,430; June 22; v. 275; p. 734.
Whyte, William S., Bedford, Ind. Valve for pneumatic tools. No. 1,343,951; June 22; v. 275; p. 641.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Double-gear-transmission mechanism. No. 1,344,366; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Muffler for explosive-engines. No. 1,344,367; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Positive-reduction-steering transmission. No. 1,344,368; June 22; v. 275; p. 722.
Wiedmann, Arthur G., Kansas City, Mo. Stein. No. 1,344,072; June 22; v. 275; p. 664.
Wieman, Herman A., Dallas, Tex. Shelving. No. 1,344,106; June 22; v. 275; p. 670.
Wileman, Hartford, Clay Center, Nebr. Spring-wheel. No. 1,344,012; June 22; v. 275; p. 653.
Wilkin, George W., Grangeville, Idaho. Differential. No. 1,344,107; June 22; v. 275; p. 670.
Will & Baumer Company, The. (See Engman, Evald J., assignor.)
Willard Storage Battery Company. (See Disinger, Ernest, assignor.)
Williams, Frank W. (See Parnall, Archie E., assignor.)
Williams, James W., Spokane, Wash. Steam-generator for canning and cooking devices. No. 1,344,326; June 22; v. 275; p. 713.
Williams, Louis N. D., Ogontz, Pa. Facilitating the mechanical transfer of stitches from needles of knitting-machines. No. 1,344,468; June 22; v. 275; p. 742.
Williams Patent Crusher and Pulverizer Co. (See Campbell, Edward B., assignor. (Reissue.)
Williams, Theodosius A., Battle Ground, Wash. Flash-light holder. No. 1,344,073; June 22; v. 275; p. 664.
Williams, William E., Chicago, Ill. Submarine detecting and destroying apparatus. No. 1,344,074; June 22; v. 275; p. 665.
Willis, Anthony E., *et al.* (See Willis, Reuben M., assignor.)
Willis, Gordon J., *et al.* (See Willis, Reuben M., assignor.)
Willis, Reuben M., assignor of one-third to G. J. Willis and one-third to A. E. Willis, Chanute, Kans. Self-propelled vehicle. No. 1,344,108; June 22; v. 275; p. 671.
Willson, Walter W. (See McColl, F. P., and Willson.)
Wilputte, Alice A. (See Wilputte, Louis, assignor.)
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven-door mechanism. No. 1,344,218; June 22; v. 275; p. 692.
Wilson, Elihu C., and W. W., Los Angeles, Calif, assignors to said W. W. Wilson. Undercreamer. No. 1,344,327; June 22; v. 275; p. 714.
Wilson, James, West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Balancing device. No. 1,344,193; June 22; v. 275; p. 687.
Wilson, William W. (See Wilson, Elihu C., and W. W.)
Wimperis, Harry E., Goring-on-Thames, England. Instrument for aerial navigation. No. 1,343,952; June 22; v. 275; p. 641.
Winkley, Erastus E., Lynn, Mass. Bottle-handling mechanism. No. 1,344,013; June 22; v. 275; p. 653.
Wolf, Augustus, Chambersburg, Pa. Middlings-mill. No. 1,344,479; June 22; v. 275; p. 742.
Wolf, Charles, Philadelphia, Pa. Lock. No. 1,344,469; June 22; v. 275; p. 742.
Wolff, Michael J., St. Louis, Mo. Rotary automatic cornucopia-baking machine. No. 1,344,285; June 22; v. 275; p. 705.
Wolff, Michael J., St. Louis, Mo. Combined trimming and nesting machine for ice-cream cornucoplas. No. 1,344,286; June 22; v. 275; p. 706.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,014; June 22; v. 275; p. 653.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,015; June 22; v. 275; p. 653.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,016; June 22; v. 275; p. 653.
Wolters, Leon A., assignor to The Thoro Corporation, Chicago, Ill. Means for attaching direction-sheets to cans. No. 1,343,953; June 22; v. 275; p. 641.
Wood, Lorena M., Spokane, Wash. Electrolier. No. 1,344,251; June 22; v. 275; p. 698.
Worden, Stanley B. T., Syracuse, N. Y., assignor to F. R. Henshaw, trustee, Indianapolis, Ind. Pneumatic controller. No. 1,344,328; June 22; v. 275; p. 714.
Worth, Barzillai G. (See Freygang, W. H., Kidde, and Worth.)
Wortman, George C., Denver, Colo. Rail-bracing-spike retainer. No. 1,344,109; June 22; v. 275; p. 671.
Wright, Charles B., assignor to Post Card Vending Machine Company, Chicago, Ill. Vending-machine. No. 1,344,160; June 22; v. 275; p. 681.
Wright, Jefferson G., Connell, assignor of one-third to W. F. Steinmeier, Eltopia, Wash. Washer. No. 1,344,194; June 22; v. 275; p. 687.
Wupper, Cecilia. (See Best, William N., assignor.)
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,344,195; June 22; v. 275; p. 687.
Zehringer, Howard A., assignor of one-third to Oscar L. Pond, Indianapolis, Ind. Short-circuiting lock for motor-vehicles and the like. No. 1,344,369; June 22; v. 275; p. 722.
Zeigler, William H., Long Island City, N. Y. Spark-plug. No. 1,344,530; June 22; v. 275; p. 754.
Zimpfer, William A., Jackson Center, Ohio. Corn-harvester. No. 1,344,017; June 22; v. 275; p. 653.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Anglo-American Pharmaceutical Corporation. (See Shropshire, George E., assignor.)
Bachmayer, Joseph J. (See Saxton, A. H., and Bachmayer.)
Baudet, George A., New York, N. Y., assignor to The Baudet Manufacturing Company, Woonsocket, R. I. Combined pressure gage and regulator casing. No. 55,500; June 22; v. 275; p. 773.
Baudet Manufacturing Company, The. (See Baudet, George A., assignor.)
Blette, Henry C., Pittsburgh, Pa. Crystal coffee or tea service. No. 55,501; June 22; v. 275; p. 773.
Blackmon, Charles D. (See Smith, J. H., and Blackmon.)
Blanck & Company. (See Davis, Elizabeth A., assignor.)
Blanck & Company. (See Kümalehto, Thyra O., assignor.)
Blanck & Company. (See Meyer, Felix, assignor.)
Boston Rubber Shoe Company. (See Piper, Walter E., assignor.)
Boyce, Harrison H., Forest Hills, N. Y. Combined motor-vehicle radiator-cap and temperature-indicating instrument. No. 55,502; June 22; v. 275; p. 773.
Cooley, Catherine C., Omaha, Nebr. Doll. No. 55,503; June 22; v. 275; p. 774.
Curtiss, Glenn H., Buffalo, N. Y. Aeroplane. No. 55,504; June 22; v. 275; p. 774.
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,505; June 22; v. 275; p. 774.
Downes, Elmer N., assignor to J. & D. Tire Company, Charlotte, N. C. Non-skid tire-tread. No. 55,506; June 22; v. 275; p. 774.
Duersten, William E., New Castle, Pa. Non-skid tire. No. 55,507; June 22; v. 275; p. 775.
Flynn, John H., Jr., Cincinnati, Ohio. Pulley-block. No. 55,508; June 22; v. 275; p. 775.
Franck, Walter A., Louisville, Ky. Cigar-cutter. No. 55,509; June 22; v. 275; p. 775.
Gamble, William C., Mount Vernon, N. Y., assignor to General Optical Company. Paper-weight. No. 55,510; June 22; v. 275; p. 775.
General Optical Company. (See Gamble, William C., assignor.)
Gillespie, Gordon F., Los Angeles, Calif. Doll. No. 55,511; June 22; v. 275; p. 775.
Heller, Samuel, New York, N. Y. Precious, semiprecious, or synthetic stone, or an imitation thereof. Nos. 55,512–13; June 22; v. 275; p. 776.
Heyman, Albert C., New York, N. Y., assignor to Peerless Rubber Manufacturing Company. Sheet floor-covering. No. 55,514; June 22; v. 275; p. 776.
Houston, William A., Sioux City, Iowa. Hook-pin. No. 55,515; June 22; v. 275; p. 776.
Huthmaker, James R., and W. R. Leas, Wyoming, Pa. Knife-rest. No. 55,516; June 22; v. 275; p. 776.
J. & D. Tire Company. (See Downes, Elmer N., assignor.)
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,517; June 22; v. 275; p. 776.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,519; June 22; v. 275; p. 777.
Kümalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,518; June 22; v. 275; p. 777.
Leas, Warren R. (See Huthmaker, J. R., and Leas.)
Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Timepiece-dial. Nos. 55,520—1; June 22; v. 275; p. 777.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,522; June 22; v. 275; p. 777.
Montgomery, Henry S., Topeka, Kans. Time-piece-dial. No. 55,523; June 22; v. 275; p. 777.
Mueller, Ralph S., Cleveland Heights, Ohio. Test-clip. No. 55,524; June 22; v. 275; p. 778.
National Bundle Tyer Company. (See Saxton, A. H., and Bachmayer, assignors.)
Nowak, Walter J., Gary, Ind. Statuette. No. 55,525; June 22; v. 275; p. 778.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,526; June 22; v. 275; p. 778.
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. No. 55,527; June 22; v. 275; p. 778.
Peerless Rubber Manufacturing Company. (See Heyman, Albert C., assignor.)
Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Sole of a rubber boot or shoe. No. 55,528; June 22; v. 275; p. 778.
Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Sole of a rubber overshoe or similar article. No. 55,529; June 22; v. 275; p. 779.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,530–1; June 22; v. 275; p. 779.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,532; June 22; v. 275; p. 779.
Saxton, Albert H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Blissford, Mich. Bundle-tier-machine frame. No. 55,533; June 22; v. 275; p. 779.
Sheerin, Doherty, Indianapolis, Ind. Vending-cabinet. No. 55,534; June 22; v. 275; p. 780.
Shropshire, George E., Yonkers, assignor to Anglo-American Pharmaceutical Corporation, New York, N. Y. Decorative paper. No. 55,535; June 22; v. 275; p. 780.
Smith, James H., and C. D. Blackmon, Rochester, N. Y. Candy or chewing-gum tablet. No. 55,536; June 22; v. 275; p. 780.
Smith, William J., Denver, Colo. Superservice-flag. No. 55,537; June 22; v. 275; p. 780.
Snyder, Eugene L., Canton, Ohio. Drawing instrument. No. 55,538; June 22; v. 275; p. 780.
Sowalski, Jan, Chicago, Ill. Window. No. 55,539; June 22; v. 275; p. 780.
Susquehanna Silk Mills. (See Katz, Clara, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)
Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)
Susquehanna Silk Mills. (See Reith, William G., assignor.)
Tarbell, Grove S., Colville, Wash. Kitchen-spoon. No. 55,540; June 22; v. 275; p. 781.
Waltham Watch Company. (See Marsh, Edward A., assignor.)
Wilson, Walter A., Armley, Leeds, England. Radiant for gas-heaters. No. 55,541; June 22; v. 275; p. 781.
Wlpf, Herman, Narberth, assignor to John Wyeth & Bro., Inc., Philadelphia, Pa. Antiseptic tablet. No. 55,542; June 22; v. 275; p. 781.
Wyeth, John, & Bro. (See Wlpf, Herman, assignor.)
Ziv, Abraham J., Chicago, Ill. Statuette. No. 55,543; June 22; v. 275; p. 781.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Albrecht, Elizabeth J., Prosser, Wash. Salve for treatment of certain named diseases and affections. No. 132,279; June 22; v. 275; p. 815.
Allied Machinery Company of America, New York, N. Y. Measuring and scientific appliances. No. 132,280; June 22; v. 275; p. 815.
Alpern and Blachschlager Chemical Company, Cincinnati, Ohio. Medicine for cramp, diarrhea, and kindred diseases. No. 132,281; June 22; v. 275; p. 815.
Amalgamated Trading Company, San Francisco, Calif. Canned fruits. No. 132,282; June 22; v. 275; p. 815.
American Confectionery Syndicate, Inc., New York, N. Y. Sugar tablets and lozenges flavored with essential oils and fruit-juices. No. 132,283; June 22; v. 275; p. 815.
American La France Fire Engine Co., Inc., Elmira, N. Y. Fire-engines, water-towers, &c. No. 132,284; June 22; v. 275; p. 815.
American Novelty-Wash Suit Co., Inc., New York, N. Y. Boys', youths', and children's outer suits, coats, and pants. No. 132,285; June 22; v. 275; p. 815.
Ammen, Chas., Co. Ltd., Alexandria, La. Baby-powder. No. 132,286; June 22; v. 275; p. 815.
Apsley Rubber Company, Hudson, Mass. Canvas outing-shoes. No. 132,287; June 22; v. 275; p. 815.
Arnor, Harry W., Lewiston, Idaho. Washing compound. No. 132,288; June 22; v. 275; p. 815.
Aron, J., & Company, Inc., New Orleans, La. Coffee. No. 132,289; June 22; v. 275; p. 815.
Arrow Products Co., Peoria, Ill. Non-alcoholic maltless beverage. No. 132,290; June 22; v. 275; p. 815.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Turpentine. No. 132,403; June 22; v. 275; p. 819.
Atlantic Refining Company, The, Philadelphia, Pa. White petroleums. No. 132,291; June 22; v. 275; p. 815.
Afriken Chemical Works, New Brunswick, N. J. Ointments, petroleum jelly, &c. No. 132,292; June 22; v. 275; p. 815.
Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. No. 132,293; June 22; v. 275; p. 815.
Bay State Optical Company, Saco, Me., and Attleboro, Mass. Frames of spectacles and eyeglasses. No. 132,294; June 22; v. 275; p. 815.
Beauchamp, Joseph O., Springfield, Mass. Antiseptic for use in the nose. No. 132,295; June 22; v. 275; p. 815.
Beaver Varnish Company, The, Buffalo, N. Y. Paste and ready-mixed paints and varnishes. No. 132,296; June 22; v. 275; p. 815.
Bell, Robt. J., assignor to Bell's Auto Memo Co., Richmond, Va. Memorandum-tablets. No. 132,297; June 22; v. 275; p. 815.
Bencoe Importing and Exporting Co. Inc., New York, N. Y. Sheeting. No. 132,298; June 22; v. 275; p. 815.
Benedix, Victor, Columbus, Ohio. Medicated inhalant, a nerve and blood tonic, and stomach and asthma medicines. No. 132,299; June 22; v. 275; p. 815.
Bernard, Henry B., Jefferson, S. D. Worm-expeller, horse-tonic, hog-tonic, &c. No. 132,300; June 22; v. 275; p. 815.
Bernstein, Baum, Da Costa Company, Philadelphia, Pa. Suits and coats for women. No. 132,301; June 22; v. 275; p. 815.
Borgfeldt, George, & Co., New York, N. Y. Toilet powders. No. 132,302; June 22; v. 275; p. 815.
Bosak Manufacturing Co., Scranton, Pa. Reconstructive tonic. Nos. 132,303–5; June 22; v. 175; pp. 815–16.
Braunberg, Max, Brooklyn, N. Y. Hair-restorer. No. 132,306; June 22; v. 275; p. 816.
Bridgman, Roy W., San Jose, Calif. Perspiration-counteractor. No. 132,307; June 22; v. 275; p. 816.
Bristol-Myers Company, New York, N. Y. Digestants and medicinal preparations for treatment of dyspepsia or similar diseases. No. 132,308; June 22; v. 275; p. 816.
Brown's Tooth Powder Company, San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 132,309; June 22; v. 275; p. 816.
Burnham, Edward, Chicago, Ill. Manicuring-oil, nail-polish, and finger-nail polish. No. 132,310; June 22; v. 275; p. 816.
Burnham, Edward, Chicago, Ill. Perfume, toilet-water, rouge, and face-powder. No. 132,311; June 22; v. 275; p. 816.
Burwell & Dunn Co., Charlotte, N. C. Antiseptic demulcent corrective for intestinal disorders. No. 132,312; June 22; v. 275; p. 816.
Burwell & Dunn Co., Charlotte, N. C. Malarial remedy and tonic. No. 132,313; June 22; v. 275; p. 816.
Butler, Charles A., Toledo, Ohio. Chemical carbon-preventive or gas-intensifier for hydrocarbon liquid fuels. Nos. 132,314–15; June 22; v. 275; p. 816.
C. A. Willey Company, Long Island City, N. Y. Lacquer for furniture and household goods. No. 132,593; June 22; v. 275; p. 825.
C. & K. Mfg. Co., The, New Haven, Conn. Powder-puffs. No. 132,316; June 22; v. 275; p. 816.
Cacciatore, Leonardo, New York, N. Y. Medicine for diseases of the eye. No. 132,317; June 22; v. 275; p. 816.
California Packing Corporation, San Francisco, Calif. Canned vegetables and dried fruits. No. 132,318; June 22; v. 275; p. 816.

Capen, George H., Canton Junction, Mass. Leather blackings and dressing. No. 132,319; June 22; v. 275; p. 816.

Carbona Products Company, New York, N. Y. Chemical fire-extinguishing compound. No. 132,320; June 22; v. 275; p. 816.

Carson, Pirie, Scott & Co., assignor to Carson Pirie Scott & Company, Chicago, Ill. Overalls. No. 132,321; June 22; v. 275; p. 816.

Casein Manufacturing Company, New York, N. Y. Casein glues or adhesives. No. 132,322; June 22; v. 275; p. 816.

Caverly-Plumer Company, Lynn, Mass. Compound cream of tartar. No. 132,323; June 22; v. 275; p. 816.

Celite Products Company, Los Angeles, Calif. Heat-insulating filling and a structural material. No. 132,324; June 22; v. 275; p. 816.

Celite Products Company, Los Angeles, Calif. Material for heat-insulating semirefractory filling and a structural material. Nos. 132,325–6; June 22; v. 275; p. 816.

Chandler & Co., Boston, Mass. Clothing for women. No. 132,327; June 22; v. 275; p. 816.

Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 132,329; June 22; v. 275; p. 816.

China, Japan & South American Trading Co., Ltd., San Francisco, Calif. Canned fruits and vegetables. No. 132,330; June 22; v. 275; p. 816.

Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. Nos. 132,331–5; v. 275; p. 816.

Chrobaltic Tool Company, Chicago, Ill. Reamers, metal-cutting drills, punches, &c. No. 132,336; June 22; v. 275; p. 817.

Chuck, Davis & Co., New York, N. Y. Cotton piece goods. No. 132,337; June 22; v. 275; p. 817.

Cohn, J. & M., Inc., New York, N. Y. Ladies' waists and collars. No. 132,338; June 22; v. 275; p. 817.

Cousins, J. & T., Co., Brooklyn, N. Y. Boots and shoes of leather and fabric. No. 132,341; June 22; v. 275; p. 817.

Corning Glass Works, Corning, N. Y. Cut-glass and artistic glassware. Nos. 132,339–40; June 22; v. 275; p. 817.

Crippen Company, Inc., The, New York, N. Y. Player-pianos and music-sheets therefor, talking-machines, and phonographs. No. 132,342; June 22; v. 275; p. 817.

Croker Packing Co., San Francisco, Calif. Canned fruits, jams, and vegetables. No. 132,343; June 22; v. 275; p. 817.

Crome, Julia H., Clinton, Mo. Non-alcoholic non-cereal maltless beverage and syrup. No. 132,344; June 22; v. 275; p. 817.

Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, racks, billets, blooms, plates, &c. No. 132,345; June 22; v. 275; p. 817.

Cullen-Stevens Co., Duluth, Minn. Polish for varnished and enameled surfaces. No. 132,346; June 22; v. 275; p. 817.

Davis & Lawrence Company, New York, N. Y. Menthol salve. No. 132,347; June 22; v. 275; p. 817.

Davis, N. C., Winchester, Mass. Cleaner and polisher for phonograph-records. No. 132,348; June 22; v. 275; p. 817.

Day, William A., Bellingham, Wash. Solder. No. 132,349; June 22; v. 275; p. 817.

Dearborn Chemical Company, Chicago, Ill. Lubricating oils and greases. No. 132,350; June 22; v. 275; p. 817.

De Goenaga, Augusto H., Detroit, Mich. Tooth-paste. No. 132,351; June 22; v. 275; p. 817.

Delfino, Dr. Enrico Parodi, Milan, Italy. Preserved cherries. No. 132,352; June 22; v. 275; p. 817.

Dell, Vella, New York, N. Y. Hair-tonic and hair-growing preparation. No. 132,353; June 22; v. 275; p. 817.

De Luca, John A., St. Helena, Md. Baking-powder. No. 132,354; June 22; v. 275; p. 817.

Denney & Co., Chicago, Ill. Fresh apples. No. 132,355; June 22; v. 275; p. 817.

Deprée Chemical Company, The, Holland, Mich. Complexion and talcum powders, toilet-water, complexion and almond cream. No. 132,356; June 22; v. 275; p. 817.

Deter-Sol Sales Company, Denver, Colo. Preparation to preserve and renew platens. No. 132,357; June 22; v. 275; p. 817.

Dewey, H. T. & Sons Co., New York, N. Y. Non-intoxicating non-cereal maltless beverage. No. 132,358; June 22; v. 275; p. 817.

Drackett, P. W., and Sons Company, The, Cincinnati, Ohio. Washing compound. No. 132,359; June 22; v. 275; p. 817.

Duffee, J. W., Mfg. Co., The, Washington Court House, Ohio. Tonic laxative, for constipation, sluggish liver, headache, &c. No. 132,360; June 22; v. 275; p. 817.

Dunham, James H., & Co., New York, N. Y. Hosiery. No. 132,361; June 22; v. 275; p. 817.

Du Pont, E. I. de Nemours & Company, Wilmington, Del. Lacquers. No. 132,367; June 22; v. 275; p. 817.

Duratex Company, The, Newark, N. J. Waterproofed textile fabric. No. 132,362; June 22; v. 275; p. 817.

Earl, Charles M., Detroit, Mich. Beverage-dispensing valves. No. 132,363; June 22; v. 275; p. 817.

Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 132,364; June 22; v. 275; p. 817.

Economical Materials Co., Chicago, Ill. Chemical compound for use in the manufacture of beverages. No. 132,365; June 22; v. 275; p. 817.

Edison Laboratories, The, Chicago, Ill. Hair-shampoo. No. 132,366; June 22; v. 275; p. 817.

Erber, Nathan, Fort Wayne, Ind. Skin-lotion. No. 132,368; June 22; v. 275; p. 818.

Farmakis, Nicholas, Orange, N. J. Remedy for pyorrhea. No. 132,369; June 22; v. 275; p. 818.

Ferguson, Herman B., New York, N. Y. Underwear for men, one and two piece garments. No. 132,370; June 22; v. 275; p. 818.

Florida Fruit Juice Co., Inc., New York, N. Y. Non-alcoholic maltless beverage. No. 132,372; June 22; v. 275; p. 818.

Food Appliance Manufacturing Corporation, Rochester, N. Y., Butter-serving machines. No. 132,373; June 22; v. 275; p. 818.

Fort Wayne Drug Company, Fort Wayne, Ind. Flat interior oil-paint. No. 132,374; June 22; v. 275; p. 818.

Foster Rubber Company, Kennebunk, Me., and Boston, Mass. Rubber soles and heels. No. 132,375; June 22; v. 275; p. 818.

Frank & Lewis Company, McKeesport, Pa. Non-alcoholic herb beverage. No. 132,376; June 22; v. 275; p. 818.

Friend Lewis, New York, N. Y. Skin-emollient. No. 132,377; June 22; v. 275; p. 818.

Fuid, Issac, Baltimore, Md. Games, toys, and sporting goods. No. 132,378; June 22; v. 275; p. 818.

Fulton Tool Works, Huntington, W. Va. Machinery and tools. No. 132,379; June 22; v. 275; p. 818.

Gage Brothers & Company, Chicago, Ill. Ladies' hats. No. 132,380; June 22; v. 275; p. 818.

Garvurin, Leon, New York, N. Y. Toilet preparations. Nos. 132,381–2; June 22; v. 275; p. 818.

General Chemical Company, New York, N. Y. Insecticide. No. 132,383; June 22; v. 275; p. 818.

Gets 'Em Co., Tifton, Ga. Liquid insecticide. No. 132,384; June 22; v. 275; p. 818.

Getz Bros. & Co., San Francisco, Calif. Canned salmon and oysters. No. 132,385; June 22; v. 275; p. 818.

Gibford-Weiffenbach Company, The, Adrian, Mich. Razor-strops. No. 132,387; June 22; v. 275; p. 818.

Gilbert, Willis H., Chicago, Ill. Wooden poles for telegraph, telephone, traction, and power lines. No. 132,386; June 22; v. 275; p. 818.

Gimbel Brothers Incorporated, Philadelphia, Pa. Synthetic pearls and beads and necklaces of same. No. 132,388; June 22; v. 275; p. 818.

Globe Canning Co., Eastport and North Lubec, Me. Sardines. No. 132,389; June 22; v. 275; p.818.

Goldman, John, Philadelphia, Pa. Coloring for the hair. No. 132,390; June 22; v. 275; p. 818.

Goodin Reid & Co., New York, N. Y. Burlaps, ducks, drills, &c. No. 132,391; June 22; v. 275; p. 818.

Gore, Robert J. K., Detroit, Mich. Medicine for tuberculosis. No. 132,392; June 22; v. 275; p. 818.

Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Anilins and dyestuffs. No. 132,393; June 22; v. 275; p. 818.

Granolax Company, The, New York, N. Y. Laxative. No. 132,394; June 22; v. 275; p. 818.

Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Baking-powder. No. 132,397; June 22; v. 275; p. 818.

Great Atlantic & Pacific Tea Company, The, Jersey City, N. J. Tea. No. 132,396; June 22; v. 275; p. 818.

Greenlee, James A., Chicago, Ill. Reinforced paper for wrapping and packaging articles. No. 132,398; June 22; v. 275; p. 818.

Greensburg Brewing Company, Greensburg, Pa. Malt beverage. No. 132,399; June 22; v. 275; p. 818.

Gumbinsky Bros. Company, Chicago, Ill. Woolen blankets and woolen cloth in the piece. No. 132,400; June 22; v. 275; p. 818.

Gutman, Eugene, & Co., New York, N. Y. Cotton piece goods. No. 132,401; June 22; v. 275; p. 818.

Hales & Edwards Company, Chicago, Ill. Mixed grain feeds for calves and pigs. No. 132,402; June 22; v. 275; p. 819.

Hanselmann-Johnson Company, Cincinnati, Ohio. Silk fabric and ribbons in the piece. No. 132,404; June 22; v. 275; p. 819.

Harrison, Edward V., Greensboro, N. C. Medicinal compound for treatment of colds, neuralgia, grippe, and headache. No. 132,405; June 22; v. 275; p. 819.

Hart, Albert, New York, N. Y. Chamois-skins. No. 132,406; June 22; v. 275; p. 819.

Hattori, Yozo, Los Angeles, Calif. Foods and ingredients of foods. No. 132,407; June 22; v. 275; p. 819.

Hauenstein, John, New Ulm, Minn. Cereal malt beverage. No. 132,408; June 22; v. 275; p. 819.

Hawley, Joel E., Kansas City, Mo. Dentifrice. No. 132,409; June 22; v. 275; p. 819.

Henwood & Nowak, Inc., Boston, Mass. Glazed kid. No. 132,410; June 22; v. 275; p. 819.

Herpich, John L., Columbus, Ohio. Medicine for use in the treatment of certain named diseases and affections. No. 132,411; June 22; v. 275; p. 819.

Hicks, Herma L., Rocky Mount, N. C. Medicinal preparation for diseases of the stomach, liver, kidneys, &c. No. 132,412; June 22; v. 275; p. 819.

Hornung, George J., West New York, N. J. Liquid preparation for the treatment of certain named diseases and affections. No. 132,413; June 22; v. 275; p. 819.

Hughes & Company, (Export Corporation,) New York, N. Y. Cotton, woolen, and silk goods in the piece, ribbons in the piece. No. 132,414; June 22; v. 275; p. 819.

Humphreys Homeopathic Medicine Co., New York, N. Y. Homeopathic medicine for treatment of certain named diseases and affections. Nos. 132,415–16; June 22; v. 275; p. 819.

Humphreys Homeopathic Medicine Co., New York, N. Y. Witch-hazel and ointment containing witch-hazel. No. 132,417; June 22; v. 275; p. 819.

Indianapolis Brewing Co., The, Indianapolis, Ind. Non-intoxicating beverage. No. 132,418; June 22; v. 275; p. 819.

Industrial Garment Co., Chicago, Ill. Outer work-shirts and overalls. No. 132,419; June 22; v. 275; p. 819.

Ivy Corset Company, Worcester, Mass. Corsets, brassières, &c. No. 132,420; June 22; v. 275; p. 819.

Jameson, Jas. E., Detroit, Mich. Medicinal preparation. No. 132,421; June 22; v. 275; p. 819.

Jiffie-Straight Company, Incorporated, Petersburg, Va. Pomade for the scalp and hair. No. 132,422; June 22; v. 275; p. 819.

Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 132,423; June 22; v. 275; p. 819.

Johnson, Edward H., Trenton, N. J. Cleansing preparation for white shoes, gloves, and belts. No. 132,424; June 22; v. 275; p. 819.

Johnson, Nathan G., Atmore, Ala. Liniment for swollen joints rheumatism, &c. No. 132,425; June 22; v. 275; p. 819.

Joseph Krieg-Fink Co., Inc., Jersey City, N. J. Non-intoxicating maltless beverage. No. 132,433; June 22; v. 275; p. 820.

Kahn, William, St. Louis, Mo. Cold-creams, hair-tonics, and shampoos. No. 132,426; June 22; v. 275; p. 819.

Kea, William, Dublin, Ga. Worm and insect exterminator. No. 132,427; June 22; v. 275; p. 819.

Kendal & Slusser, Mentor township, Lake county, Ohio. Eggs. No. 132,428; June 22; v. 275; p. 819.

Kewley Bros., Battle Creek, Mich. Preparation administered internally to horses and other live stock. No. 132,429; June 22; v. 275; p. 819.

Kirk, James S., & Company, Chicago, Ill. Toilet and laundry soap. No. 132,430; June 22; v. 275; p. 820.

Kirschner-Hendler Co., New York, N. Y. Ladies' silk camisoles. No. 132,431; June 22; v. 275; p. 820.

Klemperer, Gustav, New York, N. Y. Preparation for prevention and treatment of infectious diseases. No. 132,432; June 22; v. 275; p. 820.

Lamar, Taylor & Riley Drug Co., Macon, Ga. Skin-soap. No. 132,434; June 22; v. 275; p. 820.

Langenberg Hat Company, St. Louis, Mo. Leather and fabric gloves. No. 132,435; June 22; v. 275; p. 820.

Laubheim Bros., New York, N. Y. Jewelry and precious-metal ware. No. 132,436; June 22; v. 275; p. 820.

Lawry, Rolla C., St. Louis, Mo. Preparation used as a deodorant and a relief for excessive perspiration. No. 132,505; June 22; v. 275; p. 820.

Lekko Soap Company, Chicago, Ill. Powder for cleaning and scouring. No. 132,437; June 22; v. 275; p. 820.

Link Belt Company, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Idlers and rolls for conveying machinery. No. 132,438; June 22; v. 275; p. 820.

Locke Steel Chain Company, The, Bridgeport, Conn. Sprocket and driving chains for agricultural and other machinery and apparatus. No. 132,439; June 22; v. 275; p. 820.

Louisville Food Products Company, Louisville, Ky. Soap. No. 132,440; June 22; v. 275; p. 820.

Lowry Laboratory, Inc., Hoboken, N. J. Solutions of medicinal arsenical compounds. No. 132,441; June 22; v. 275; p. 820.

Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 132,443–4; June 22; v. 275; p. 820.

Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 132,442; June 22; v. 275; p. 820.

Majestic Tire & Rubber Co., Indianapolis, Ind. Rubber tires. No. 132,451; June 22; v. 275; p. 820.

Malthie Chemical Company, The, Newark, N. J. Medicinal tablets for treatment of diseases of the biliary system. No. 132,452; June 22; v. 275; p. 820.

Manning Abrasive Company, Inc., Troy, N. Y. Abrasive or grinding belts. No. 132,453; June 22; v. 275; p. 820.

Marine Decking & Supply Co., Philadelphia, Pa. Tackle and pulley blocks. No. 132,454; June 22; v. 275; p. 820.

Marshall Oil Company, Marshalltown, Iowa. Wax polish. No. 132,455; June 22; v. 275; p. 820.

Martin-Scott Engineering Co., New York, N. Y. Farm-tractors. No. 132,456; June 22; v. 275; p. 820.

Mayehoff, M. M., & Co., Incorporated, Norwalk, Conn. Clothing. No. 132,457; June 22; v. 275; p. 820.

McClure, Clysses G., Chicago, Ill. Preparations for the treatment of eczema, acne, &c. No. 132,575; June 22; v. 275; p. 824.

McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for external use in skin diseases, &c. No. 132,445; June 22; v. 275; p. 820.

McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for external use, for rheumatism, sprains, sore throat, &c. No. 132,446; June 22; v. 275; p. 820.

McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for germicidal purposes and affections of throat and mouth. No. 132,447; June 22; v. 275; p. 820.

McKesson & Robbins Inc., New York, N. Y. Preparations for repelling mosquitos and healing their bites. No. 132,448; June 22; v. 275; p. 820.

McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for certain skin disorders and as a blood-purifier. No. 132,449; June 22; v. 275; p. 820.

McManus, Edward C., San Francisco, Calif. Orange-juice. No. 132,450; June 22; v. 275; p. 820.

Merrell, William S., Company, The, Cincinnati, Ohio. Liquid heart-tonic. No. 132,458; June 22; v. 275; p. 820.

Miami Chemical Co., Cincinnati, Ohio. Deodorant and antiseptic powders. No. 132,459; June 22; v. 275; p. 820.

Mickey Company, The, Hanover, Pa. Non-alcoholic non-cereal maltless orange-flavored syrup for carbonated soft drinks. No. 132,460; June 22; v. 275; p. 821.

Mills, Chester S., Pittsburgh, Pa. Medicated tablets used as a laxative. No. 132,461; June 22; v. 275; p. 821.

Nelson, Olaf A., San Francisco, Calif. Canned fruits and tomatoes. Nos. 132,462–3; June 22; v. 275; p. 821.

New England Structural Company, Boston, Mass. Structural steel and iron—viz., beams, channels, girders, trusses, &c. No. 132,464; June 22; v. 275; p. 821.

Newmark, Fred, New York, N. Y. Ladies' flat underwear. No. 132,465; June 22; v. 275; p. 821.

Nichols Underwear Corporation, The, Bridgeport, Conn. Clothing. No. 132,466; June 22; v. 275; p. 821.

Number 13 Chemical Co., Hoboken and Newark, N. J. Insecticide. No. 132,469; June 22; v. 275; p. 821.

Nu-Ray Polish Manufacturing Co., Provo, Utah. Polish for furniture, &c. No. 132,467; June 22; v. 275; p. 821.

Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 132,468; June 22; v. 275; p. 821.

Omega Chemical Company, The, New York, N. Y. Remedy for certain named ailments and toilet preparations. No. 132,470; June 22; v. 275; p. 821.

Oneida Corporation, Chicago, Ill. Depilatories. No. 132,471; June 22; v. 275; p. 821.

O'Neill, Peter L., Jersey City, N. J. Boiler-preserver. No. 132,472; June 22; v. 275; p. 821.

Orange Hosiery Mills, Orange, N. J. Hosiery. No. 132,473; June 22; v. 275; p. 821.

Osburn, C. S., & Co., Newark, Ohio. Garden, flower, vegetable, &c., seeds. No. 132,474; June 22; v. 275; p. 821.

Ostrowsky, H., Co., Chicago, Ill. Boys' overalls, playsuits, waists, &c. No. 132,475; June 22; v. 275; p. 821.

Owl Drug Company, The, Decatur, Ala. Compounds for treating certain named diseasses and affections. No. 132,476; June 22; v. 275; p. 821.

Panafieu Pere et Fils, Paris, France. Hair-coloring for the beard and hair. No. 132,371; June 22; v. 275; p. 818.

Panther Rubber Manufacturing Company, Stoughton and Chelsea, Mass. Rubber and rubber-composition heels. No. 132,477; June 22; v. 275; p. 821.

Para Crude Oil Corp., New York, N. Y. Paint-oil. No. 132,478; June 22; v. 275; p. 821.

Park & Pollard Company, The, Boston, Mass. Mixed food for hogs. No. 132,479; June 22; v. 275; p. 821.

Parzon Pharmacal Company, Dayton, Ohio. General system-tonic and blood-medicine. No. 132,480; June 22; v. 275; p. 821.

Philip Carey Manufacturing Company, Lockland, Ohio. Roofing and metal paints. No. 132,481; June 22; v. 275; p. 821.

Phillips, Phil D., Spencer, W. Va. Tonic preparation for treatment of certain named diseases and affections. No. 132,482; June 22; v. 275; p. 821.

Phinizee, Emma J., New York, N. Y. Hair-tonics. No. 132,486; June 22; v. 275; p. 821.

Phosphor Bronze Smelting Company, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronze. Nos. 132,484–5; June 22; v. 275; p. 821.

Plough, Abraham, Memphis, Tenn. Hair-dressing. No. 132,483; June 22; v. 275; p. 821.

Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 132,587; June 22; v. 275; p. 821.

Pockman, Leonard H., San Francisco, Calif. Laxative tablets. No. 132,488; June 22; v. 275; p. 821.

Podiatry Shoe Company, Inc., New York, N. Y. Orthopedic shoes, &c. No. 132,489; June 22; v. 275; p. 821.

Pompeian Mfg. Co., The, Cleveland, Ohio. Pharmaceutical preparations. No. 132,490; June 22; v. 275; p. 821.

Post Pictures Corporation, New York, N. Y. Pictures to be projected upon a screen, motion-picture films, &c. No. 132,491; June 22; v. 275; p. 822.

Pyramid Clothing Manufacturing Company, St. Louis, Mo. Overalls, coats, dress and work shirts, slickers, hosiery, &c. No. 132,492; June 22; v. 275; p. 822.

Quiesser & Co., Hamburg, Germany. Cream, particularly an ointment for improvement of the skin. No. 132,494; June 22; v. 275; p. 822.

Quiesser & Co., Hamburg, Germany. Creams and paste for the teeth. No. 132,493; June 22; v. 275; p. 822.

Radium Luminous Material Corporation, New York, N. Y. Self-luminous material, such as compounds containing zinc, sulfid, and radium. No. 132,495; June 22; v. 275; p. 822.
Rainier Products Company, Seattle, Wash. Malt cereal beverage. Nos. 132,496–7; June 22; v. 275; p. 822.
Reiss, M., & Son, New York, N. Y. Petticoats, dress and under skirts. No. 132,498; June 22; v. 275; p. 822.
Reliable Chemical Co., New York, N. Y. Reconstructive medicinal tonic. No. 132,499; June 22; v. 275; p. 822.
Reusing, Andrew L., Akron, Ohio. Medicine combining the phosphates of calcium, sodium, and iron with phosphates of potassium and magnesium. No. 132,500; June 22; v. 275; p. 822.
Revere Motor Car Corporation, Logansport, Ind. Automobiles. Nos. 132,501–2; June 22; v. 275; p. 822.
R. O. R. Chemical Co., Red Lion, Pa. Compound for removing road oils and tars from automobiles and clothing. No. 132,328; June 22; v. 275; p. 816.
Rodriquez, Romon, Tampa, Fla. Polish for cleaning glass, jewelry, and metals. No. 132,504; June 22; v. 275; p. 822.
Roth, Charles, New York, N. Y. Ladies' hats. No. 132,506; June 22; v. 275; p. 822.
Rhea Chemical Company, The, Denver, Colo. Antiseptic astringent deodorant. No. 132,503; June 22; v. 275; p. 822.
Rupe, Veazy P., Indianapolis, Ind. Antiseptic and anesthetic gargle. No. 132,507; June 22; v. 275; p. 822.
Samson Tractor Company, Janesville, Wis. Tractors for hauling agricultural implements and other similar agricultural purposes. No. 132,508; June 22; v. 275; p. 822.
Sauer, C. F., Company, The, Richmond, Va. Non-alcoholic non-cereal maltless flavoring extracts for beverages. No. 132,509; June 22; v. 275; p. 822.
Saxo Chemical Co., Houston, Tex. Liquid antiseptic used as a gargle, mouth-wash, &c. No. 132,511; June 22; v. 275; p. 822.
Saxo Chemical Co., Houston, Tex. Plastic surgical dressing. No. 132,510; June 22; v. 275; p. 822.
Scafe, Roy C., Brooklyn, N. Y. Liniment for certain named ailments. No. 132,512; June 22; v. 275; p. 822.
Schaefer, F. & M., Brewing Co., New York, N. Y. Soft drink. No. 132,513; June 22; v. 275; p. 822.
Schieffelin & Co., New York, N. Y. Medicinal compound for external treatment of hay-fever. No. 132,514; June 22; v. 275; p. 822.
Schulman & Hauptman, New York, N. Y. Misses' coats, and suits. No. 132,515; June 22; v. 275; p. 822.
Schwartz, Chas. M., Philadelphia, Pa. Bath and lounging robes and smoking-jackets. No. 132,516; June 22; v. 275; p. 822.
Scott Corporation, The, Chicago, Ill. Electrical testing-switch for ignition systems. No. 132,518; June 22; v. 275; p. 822.
Scott & Bowne, Bloomfield, N. J. Cod-liver oil. No. 132,517; June 22; v. 275; p. 822.
Seamans & Cobb Co., Boston, Mass. Shoe-cloth. No. 132,519; June 22; v. 275; p. 822.
Senghusch Self-closing Inkstand Company, Milwaukee, Wis. Sanitary moisteners for gummed surfaces. No. 132,520; June 22; v. 275; p. 823.
Sentanel Remedies Company, The, Wilmington, Del., and Cincinnati, Ohio. Medicine for certain named ailments. No. 132,521; June 22; v. 275; p. 823.
Sharp & Dohme, Baltimore, Md. Antiseptic tablets. No. 132,523; June 22; v. 275; p. 823.
Sharp & Dohme, Baltimore, Md. Urinary antiseptic capsules. No. 132,522; June 22; v. 275; p. 823.
Shoemaker & Busch, Philadelphia, Pa. Insecticides. No. 132,524; June 22; v. 275; p. 823.
Siff Bros. Co., New York, N. Y. Men's and boys' suits, overcoats, coats, vests, and trousers. No. 132,525; June 22; v. 275; p. 823.
Silverman, Herman, Los Angeles, Calif. Blood-purifier. No. 132,526; June 22; v. 275; p. 823.
Simeon & Elting, New York, N. Y. Wash-blue. No. 132,527; June 22; v. 275; p. 823.
Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 132,528; June 22; v. 275; p. 823.
Sipe Conditioner M'f'g Co., Kansas City, Mo. Medicine for the upbuilding of the bone, blood, and tissues of live stock. No. 132,529; June 22; v. 275; p. 823.
Sizer Forge Company, Buffalo, N. Y. Steel forgings. No. 132,530; June 22; v. 275; p. 823.
Skuffer, E. C., Shoe Co., St. Joseph, Mo. Shoes. No. 132,531; June 22; v. 275; p. 823.
Smith & Egge Manufacturing Co., Bridgeport, Conn. Force-feed lubricators. No. 132,533; June 22; v. 275; p. 823.
Smith, Archie R., St. Louis, Mo. Hair-tonic, dandruff-eradicator, and complexion-cream. No. 132,532; June 22; v. 275; p. 823.
Snyder, J. H., Med. Co., Jonesboro, Ark. Compound for disorders of the stomach, liver, and bowels. No. 132,534; June 22; v. 275; p. 823.
Sohn, Charles P., Towson, Md. Medicated capsules for headache. No. 132,535; June 22; v. 275; p. 823.
Sonard Green Lubricant Company, Washington, D. C. Lubricating-oil. No. 132,536; June 22; v. 275; p. 823.
Southern California Products Company, Orange, Calif. Orange table-syrup. No. 132,537; June 22; v. 275; p. 823.
Southern Chemical Products Co., Baltimore, Md. Germicide deodorizing and disinfectant dentifrice preparation. No. 132,538; June 22; v. 275; p. 823.
Special Chemicals Company, Highland Park, Ill. Sal-ammoniac and soldering fluid. No. 132,539; June 22; v. 275; p. 823.
Sperry Gyroscope Company, The, Brooklyn, N. Y. Electric shears or scissors. No. 132,540; June 22; v. 275; p. 823.
Spicer, Charles R., Memphis, Tenn. Liquid tonic and antiseptic powder. No. 132,541; June 22; v. 275; p. 823.
Spirocide Corporation, New York, N. Y. Antiseptics. No. 132,577; June 22; v. 275; p. 824.
Standard Manufacturing Company, Erie, Pa. Trousers. No. 132,542; June 22; v. 275; p. 823.
Star Shirt Manufacturing Company, New York, N. Y. Men's negligée shirts and pajamas. No. 132,543; June 22; v. 275; p. 823.
Stratigos, E., Cleveland, Ohio. Hat-bleaching compound. No. 132,549; June 22; v. 275; p. 823.
Straus, Louis, Inc., San Francisco, Calif. Boys' suits. No. 132,551; June 22; v. 275; p. 824.
Strauss, Jesse, Chicago, Ill. Polish for cleaning and polishing pianos, furniture, &c. No. 132,550; June 22; v. 275; p. 823.
Stocks, Clarence L., Blue Ridge, Ga. Antiseptic germicide and deodorant. No. 132,544; June 22; v. 275; p. 823.
Stollwerck Chocolate Company, The, Stamford, Conn., and New York, N. Y. Cocoa and chocolate. Nos. 132,545–6; June 22; v. 275; p. 823.
Stone, F. T., Mildura, Victoria, Australia. Herbaceous mixtures for treating asthma and other human diseases. No. 132,547; June 22; v. 275; p. 823.
Stowe, Charles D., Asheville, N. C. Medicine for treatment of the liver and kidneys. No. 132,548; June 22; v. 275; p. 823.
Sturm, Leo F., New York, N. Y. Clothing—viz., leather coats. No. 132,552; June 22; v. 275; p. 824.
Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. No. 132,553; June 22; v. 275; p. 824.
Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap in form of flakes. No. 132,554; June 22; v. 275; p. 824.
Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. Nos. 132,555–6; June 22; v. 275; p. 824.
Sunbeam Products Company, Pittsburgh, Pa. Cleaning compounds for oriental rugs, carpets, tapestry, furniture, bathtubs, &c. No. 132,557; June 22; v. 275; p. 824.
Swalsland, Charles E., Kitchener, Ontario, Canada. Medicine for the treatment of eczema. No. 132,558; June 22; v. 275; p. 824.
Talcum Puff Company, Brooklyn, N. Y. Toilet preparations, talcum powder. No. 132,559; June 22; v. 275; p. 824.
Templeton, Kenly & Co., Ltd., Chicago, Ill. Lifting-jacks. No. 132,560; June 22; v. 275; p. 824.
Tete, Jules E., New Orleans, La. Salve for burns, boils, bruises, old sores, and fresh cuts. No. 132,561; June 22; v. 275; p. 824.
Thibodeaux, Joseph N., Houston, Tex. Tooth powders and pastes and mouth-washes. No. 132,562; June 22; v. 275; p. 824.
Thompson, Mary, Washington, D. C. Hair-tonic. No. 132,563; June 22; v. 275; p. 824.
Tower, A. J., Company, Boston, Mass. Oil hats and caps. No. 132,564; June 22; v. 275; p. 824.
Tripi, F. C., & Co., Inc., Buffalo, N. Y. Teas and coffees. No. 132,565; June 22; v. 275; p. 824.
Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 132,566; June 22; v. 275; p. 824.
Union Joe Overalls Co., Inc., New Orleans, La. Overalls. No. 132,567; June 22; v. 275; p. 824.
United Drug Company, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 132,568; June 22; v. 275; p. 824.
Upson Nut Company, The, Cleveland, Ohio. Nuts, bolts, screws, and rivets. No. 132,569; June 22; v. 275; p. 824.
Vancouver Drug Company Limited, Vancouver, British Columbia, Canada. Preparations for the relief of la grippe. No. 132,570; June 22; v. 275; p. 824.
Vivaudou, V., Inc., New York, N. Y. Deodorants. No. 132,571; June 22; v. 275; p. 824.
Wackrow, Joseph M., Portland, Oreg. Medicine against lumbago, kidney trouble, and rheumatism. No. 132,572; June 22; v. 275; p. 824.
Wahl, Manfred, Philadelphia, Pa. Culture or ferment for the production of cereal beverages. No. 132,573; June 22; v. 275; p. 824.
Wakefield, Clarence E., Worcester, Mass. Wrenches. No. 132,574; June 22; v. 275; p. 824.
Waldes & Co., Prague, Bohemia. Notions. No. 132,576; June 22; v. 275; p. 824.
Walker-Matteson Company, Joliet, Ill. Foods and ingredients of foods. No. 132,578; June 22; v. 275; p. 824.
Walsh, Thomas A., Yonkers, N. Y. Bacterial culture of bacillus bulgaricus. No. 132,519; June 22; v. 275; p. 824.
Waltham Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 132,580; June 22; v. 275; p. 824.

Wanamaker, John, New York, N. Y. Corsets, corsettes, corsetettes, and brassières. No. 132,581; June 22; v. 275; p. 824.
Waterproofings Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing. No. 135,582; June 22; v. 275; p. 825.
Webb, B. Lucas, Columbia, S. C. Wax and stain floor-finish. No. 132,583; June 22; v. 275; p. 825.
Weber, Charles E., Roaring Spring, Pa. Nerve and bone liniment for certain named ailments. No. 132,584; June 22; v. 275; p. 825.
White, David G., Boston, Mass. Practice telegraph-keys. No. 132,585; June 22; v. 275; p. 825.
Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 132,586; June 22; v. 275; p. 825.
Wiesner, L., New York, N. Y. Leather and fabric shoes. No. 132,587; June 22; v. 275; p. 825.
Wilder, John W., assignor to Delicine Products Company, Chicago, Ill. Lotions for rough, chapped, sun and wind burned skin, cold-creams, ointments, and dentifrices. No. 132,588; June 22; v. 275; p. 825.
Wile, E. J., & Co., New York, N. Y. Misses' and children's cloaks and suits. No. 132,589; June 22; v. 275; p. 825.
Wile, Julius, Sons & Co., New York, N. Y. Foods and ingredients of foods. No. 132,590; June 22; v. 275; p. 825.
Will Corporation, The, Rochester, N. Y. Cellulose compound used in preparing collodion embedding-tissues for microscopic and biological specimens. No. 134,592; June 22; v. 275; p. 825.
Will Corporation, The, Rochester, N. Y. Methyl alcohol. No. 132,591; June 22; v. 275; p. 825.
Williams, David E., Charleston, S. C. Sheet-music and music publications. No. 132,594; June 22; v. 275; p. 825.
Williams, William, Saginaw, Mich. Package-candies. No. 132,595; June 22; v. 275; p. 825.
Winfield, S. S., New York, N. Y. Hair-tonic. No. 132,596; June 22; v. 275; p. 825.
Wingate, Ollie, Atlanta, Ga. Pile remedy. No. 132,597; June 22; v. 275; p. 825.
Wolff, Moritz M., Boston, Mass. Medicinal oil liniment useful in allaying pain. No. 132,598; June 22; v. 275; p. 825.
Wurm, Herman C., New York, N. Y. Preparation for la grippe, colds, and muscular pains. No. 132,599; June 22; v. 275; p. 825.
Zarheum Chemical Co., New York, N. Y. Ointment and preparation for rheumatism, &c., tablets, and steam-bath powder. No. 132,600; June 22; v. 275; p. 825.
Zirkle, Charles T., Portland, Oreg. Malt-syrup. No. 132,601; June 22; v. 275; p. 825.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bushong, H. L., Washington, D. C. "The Famous Shenandoah Valley Brand." (For Pork Sausage.) No. 21,874; June 22; v. 275; p. 826.
General Fruit & Syrup Co., Baltimore, Md. "GenCo Cola." (For a Non-Alcoholic Beverage.) No. 21,875; June 22; v. 275; p. 826.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Achilles Rubber and Tire Company, Inc., Binghamton, N. Y. Rubber-tire casings and tubes. No. 127,699; June 22; v. 275; p. 795.
Aladdin Products Company, Chicago, Ill. Hat-dye. No. 127,847; June 22; v. 275; p. 796.
Amer, Alfred S., & Company, Limited, New Orleans, La. Candy. No. 131,938; June 22; v. 275; p. 812.
American Association of Engineers, Chicago, Ill. Monthly periodical. No. 128,815; June 22; v. 275; p. 800.
American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 130,501; June 22; v. 275; p. 806.
American Trona Corporation, New York, N. Y. Borax. No. 127,459; June 22; v. 275; p. 794.
Anthracite Hat Co., Scranton, Pa. Men's and boys' hats. No. 129,530; June 22; v. 275; p. 802.
Aronson, Louis V., Newark, N. J. Temperature-indicators for automobile-radiators. No. 130,944; June 22; v. 275; p. 807.
Atwater Knitting Company, Westfield, Mass. Men's knitted union-suits. No. 127,675; June 22; v. 275; p. 795.
Augusta Ice & Beverage Company, Augusta, Ga. Baker's syrup for food purposes. No. 131,245; June 22; v. 275; p. 809.
Baltimore Pearl Hominy Company, The, Baltimore, Md. Syrup for sweetening foods. No. 130,639; June 22; v. 275; p. 806.
Baltimore Pearl Hominy Company, The, Baltimore, Md. Table-syrup and syrup for sweetening foods. No. 130,640; June 22; v. 275; p. 806.
Barrel Syrup Co., The, Oakland, Calif. Maple-cane sugar and fruit syrups for table purposes. No. 123,726; June 22; v. 275; p. 789.
Basso Co., The, Chicago, Ill. Cheese and dried sausages. No. 129,922; June 22; v. 275; p. 803.
Bauman, Hyman, & Co., New York, N. Y. Handkerchiefs. No. 128,198; June 22; v. 275; p. 799.
Bay Side Canning Co., Mayiso, Calif. Canned fruits and vegetables. No. 128,819; June 22; v. 275; p. 800.
Berry, Thomas W., Galesburg, Ill. Hair-grower. No. 113,324; June 22; v. 275; p. 784.
Bertin & Stimson, San Francisco, Calif. Chocolates. No. 128,040; June 22; v. 275; p. 798.
Beterpack Canning Company, Decoto, Calif. Canned fruit and vegetables. No. 131,302; June 22; v. 275; p. 809.
Borgfeldt, George, & Co., New York, N. Y. Pearl buttons for wearing-apparel. No. 131,695; June 22; v. 275; p. 811.
Brecht Candy Co., The, Denver, Colo. Candies. No. 122,757; June 22; v. 275; p. 788.
Brown, Bertrand, New York, N. Y. Sheet-music. No. 128,651; June 22; v. 275; p. 800.
Brown, John W., Fort Wayne, Ind. Nebulizers for hydrocarbon-engines. No. 126,003; June 22; v. 275; p. 792.
Brown, Thomas, & Co. (Leicester) Limited, Leicester, England. Boots and shoes. No. 131,256; June 22; v. 275; p. 809.
Brown, Thomas, & Co. (Leicester) Limited, Leicester, England. Ladies' boots, shoes, and slippers. No. 131,255; June 22; v. 275; p. 809.
Browning, P. W., Washington, D. C. Coffee. No. 130,643; June 22; v. 275; p. 806.
Buckeye Producing Co., The, Toledo, Ohio. Fruit butter, peanut-butter, jams, and jellies. No. 130,019; June 22; v. 275; p. 804.
Burnet Company, The, New York, N. Y. Electric cargo-lights, lamps, ship's lamps and lanterns. No. 115,872; June 22; v. 275; p. 784.
Bursley, G. E., & Company, Fort Wayne, Ind. Peanut-butter, spices, jellies and preserves, canned fruits, vegetables, &c. No. 124,784; June 22; v. 275; p. 791.
Campbell, William, Wall Paper Co., Hackensack, N. J. Wall-paper. Nos. 132,164–5; June 22; v. 275; p. 812.
Canadian-American Cereal Products Co., New York and Buffalo, N. Y., and New Orleans, La. Wheat-flour. Nos. 132,721–2; June 22; v. 275; p. 813.
Canadian-American Cereal Products Co., New York and Buffalo, N. Y., and New Orleans, La. Wheat-flour. Nos. 132,724–5; June 22; v. 275; p. 814.
Canadian-American Cereal Products Co., New York and Buffalo, N. Y., and New Orleans, La. Wheat-flour. No. 132,727; June 22; v. 275; p. 814.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 132,729; June 22; v. 275; p. 814.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 132,731; June 22; v. 275; p. 814.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 132,733; June 22; v. 275; p. 814.
Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 132,850; June 22; v. 275; p. 814.
Capitol Cap Company, Indianapolis, Ind. Caps and hats for men, women, and children. No. 130,087; June 22; v. 275; p. 804.
Carb-Out Laboratories Company, Baltimore, Md. Chemical carbon-remover for internal-combustion engines. No. 127,714; June 22; v. 275; p. 795.
Carlisle Bros., Minneapolis, Minn. Candy. No. 130,800; June 22; v. 275; p. 806.
Carlisle Bros., Minneapolis, Minn. Chocolate candy. No. 130,799; June 22; v. 275; p. 806.
Carpenter Steel Company, The, Reading, Pa. Tool-steel. No. 131,780; June 22; v. 275; p. 812.
Castelli, Peter, Cincinnati, Ohio. Whooping-cough medicine. No. 120,446; June 22; v. 275; p. 787.
Chadburn's (Ship) Telegraph Co. Limited, Bootle, England. Ship's electrical apparatus for the transmission and indication of orders. No. 110,802; June 22; v. 275; p. 784.
Chicago Mill and Lumber Company, Chicago, Ill. Printed monthly magazine. No. 124,680; June 22; v. 275; p. 791.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 130,516; June 22; v. 275; p. 806.
Clark, D. L., Company, The, Pittsburgh, Pa. Chewing-gum. No. 130,881; June 22; v. 275; p. 806.
Cleveland and Osborn Manufacturing Company, The, Cleveland, Ohio. Foundry supplies. No. 117,558; June 22; v. 275; p. 785.
Clox-Lite Mfg. Company, Inc., Newark, N. J. Automatic circuit-controllers. No. 131,269; June 22; v. 275; p. 809.

Collings & Company, Newark, N. J. Talking-machine needles. No. 131,861; June 22; v. 275; p. 812.
Columbia Paint Co., Oakland, Calif. Wet mixed paint. No. 116,145; June 22; v. 275; p. 784.
Continental Lamp Works, Inc., New York, N. Y. Incandescent electric lamps. No. 131,779; June 22; v. 275; p. 811.
Conway, Carle C., New York, N. Y., E. E. Conway, Boston, and T. P. Brown, Worcester, Mass., trustees. Pianos. No. 126,458; June 22; v. 275; p. 793.
Crawford Tool and Manufacturing Co., Chicago, Ill. Dynamic balancing-machines. No. 117,439; June 22; v. 275; p. 785.
Creel, Jasper H., Hattiesburg, Miss. Liver-pills, blood and nerve tonic, drops for rheumatism, neuralgia, &c., liniment, medicine for rheumatism. No. 127,997; June 22; v. 275; p. 797.
D. P. Stores Company, Norfolk, Va. Canned vegetables, corn-starch, cracker-meal, canned fruits, extracts, &c. No. 124,671; June 22; v. 275; p. 791.
Darr, J. M., Company, Inc., Gretna, La. Chemical rust-remover. No. 123,882; June 22; v. 275; p. 790.
Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux-powder for welding or brazing brass, bronze, and malleable iron. No. 128,085; June 22; v. 275; p. 798.
Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Sealing-powder for welding cast-iron. No. 128,084; June 22; v. 275; p. 798.
Davis, Harry E., London, England. Chemical preparation for matting, etching, or frosting glass. No. 127,962; June 22; v. 275; p. 797.
De Vries, G. E., & Co., Arnhem, Netherlands. Commercial writing or bond paper, paper tablets, &c. No. 115,750; June 22; v. 275; p. 784.
Dearborn Baking Co., The, Aurora, Ind. Bread. No. 128,086; June 22; v. 275; p. 798.
Detmer Woolen Co., New York, N. Y. Semi-annual periodical publication. No. 127,426; June 22; v. 275; p. 794.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. No. 123,626; June 22; v. 275; p. 789.
Dobson Novelty Company, Harrison, N. J. Hairpins. No. 118,541; June 22; v. 275; p. 786.
Elliott, John, Keene, N. H. Washing-compounds. No. 127,090; June 22; v. 275; p. 793.
Emerson Phonograph Company, Incorporated, New York, N. Y. Phonograph-records. No. 132,346; June 22; v. 275; p. 813.
Ernst, Milton L., New York, N. Y. Imitation-pearl strings. No. 128,299; June 22; v. 275; p. 799.
Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 130,953; June 22; v. 275; p. 807.
Euclid Candy Company, The, Cleveland, Ohio. Candy. Nos. 130,956–7; June 22; v. 275; p. 807.
Eureka Vacuum Cleaner Company, Detroit, Mich. Electric vacuum cleaners. No. 130,885; June 22; v. 275; p. 807.
Federer, Charles A., Cleveland, Ohio. Non-alcoholic soft-drink beverage. No. 127,544; June 22; v. 275; p. 795.
Felice & Perrelli Canning Co., Gilroy, Calif. Canned fruits and vegetables. No. 131,318; June 22; v. 275; p. 810.
Ferguson, H. K., Company, The, Cleveland, Ohio. Plans and specifications. No. 127,427; June 22; v. 275; p. 794.
Franklin Simon & Co. Inc., New York, N. Y. Necklaces, finger-rings, breastpins, bracelets, &c. No. 128,708; June 22; v. 275; p. 800.
Finck, William M., & Company, Detroit, Mich. Work-clothing. No. 129,973; June 22; v. 275; p. 803.
Florence Manufacturing Company, Northampton, Mass. Hair-brushes. No. 117,159; June 22; v. 275; p. 785.
Fougera, E., & Co., New York, N. Y. Soap for personal and laundry purposes. No. 130,364; June 22; v. 275; p. 805.
Frank Canning Co., Los Angeles, Calif. Canned vegetables and fruits. No. 128,754; June 22; v. 275; p. 800.
Frank, Leopold, London, England. Woolen blankets, not in the piece. No. 128,000; June 22; v. 275; p. 798.
Gamble, Guy B., Artesia, Calif. Adjustable prop-brackets for supporting trees, bushes, shrubs, &c. No. 119,554; June 22; v. 275; p. 787.
Gatton, Roscoe B., Chicago, Ill. Talking-machines. No. 125,696; June 22; v. 275; p. 792.
General American Tank Car Corporation, Chicago, Ill. Tank-cars. No. 131,109; June 22; v. 275; p. 808.
General Manufacturing Corporation, Milwaukee, Wis. Phonographs. No. 132,351; June 22; v. 275; p. 813.
Given, John M., Inc., Pittsburgh, Pa.; Chicago, Ill., and New York, N. Y. Women's and children's hosiery. No. 123,804; June 22; v. 275; p. 789.
Globe Co., The, Philadelphia, Pa. Music-rolls for automatically-played musical instruments. No. 124,647; June 22; v. 275; p. 791.
Goodrich, B. F., Company, The, New York, N. Y. Hose made wholly or partly of rubber. No. 128,497; June 22; v. 275; p. 799.
Goodrich, B. F., Company, The, New York, N. Y. Machinery packing. No. 128,499; June 22; v. 275; p. 799.
Great Southern Sulphur Company, Inc., Orla, Tex. Sulfur. No. 128,092; June 22; v. 275; p. 798.
Greek and Syrian Company, Inc., New York, N. Y. Olive-oil. No. 124,789; June 22; v. 275; p. 791.
Greenbaum, Jacob L., Toledo, Ohio. Foot-lotion, burn-ointment, corn compound, eye-drops, &c. No. 127,368; June 22; v. 275; p. 794.
Greenwald Brothers, Incorporated, Philadelphia, Pa. Convertible petticoats and bloomers. No. 117,376; June 22; v. 275; p. 785.
Gurney, A. D., Company, Boston, Mass. Pulp-board containing wood and cotton fibers. Nos. 118,960–1; June 22; v. 275; p. 786.
Gutman, Eugene, & Co., New York, N. Y. Cotton piece goods. No. 126,179; June 22; v. 275; p. 792.
Haas, Baruch & Co., Los Angeles, Calif. Rolled oats. No. 132,530; June 22; v. 275; p. 813.
Harden, Edward N., Phoebus, Va. Liniment for sprains and bruises. No. 109,715; June 22; v. 275; p. 783.
Harmer, Joseph P., Philadelphia, Pa. Medical and pharmaceutical compound for treatment of syphilis. No. 124,992; June 22; v. 275; p. 792.
Harvard Company, Lowell, Mass. Cereal non-intoxicating malt beverage. No. 130,099; June 22; v. 275; p. 804.
Hazleton Baking Co., Hazleton, Pa. Bread and rolls. No. 130,906; June 22; v. 275; p. 807.
Heco Envelope Company, Chicago, Ill. Paper sleeve-protectors. No. 130,140; June 22; v. 275; p. 805.
Hirschy Company, The, Minneapolis, Minn. Clothes-washing machines and wringers. No. 129,063; June 22; v. 275; p. 801.
Hoberg, John, Co., The, Green Bay, Wis. Toilet-paper. No. 131,267; June 22; v. 275; p. 809.
Hoffman, Max, Boston, Mass. Overalls, jumpers, pants, and jackets. No. 131,482; June 22; v. 275; p. 810.
Holt & Company, New York, N. Y. Wheat-flour. No. 132,388; June 22; v. 275; p. 813.
Holyoke Heater Company, Holyoke, Mass. Gas and oil hot-water heaters. No. 120,667; June 22; v. 275; p. 787.
Howell, Singleton G., Dallas, Tex. Weekly publications. No. 127,816; June 22; v. 275; p. 796.
Hudson Belting Company, Worcester, Mass. Flat, twisted and round leather belting. No. 128,506; June 22; v. 275; p. 800.
Hudson Coffee Mills Inc., New York, N. Y. Tea. No. 130,038; June 22; v. 275; p. 804.
Hudson Coffee Mills, Inc., New York, N. Y. Tea. No. 130,100; June 22; v. 275; p. 804.
Hunt, Philip A., Company, New York, N. Y. Sodium nitrate and silicate, copperas, muriatic acid, &c. No. 124,402; June 22; v. 275; p. 790.
Hutton, Thomas L., Detroit, Mich. Ointment for improving the complexion. No. 124,088; June 22; v. 275; p. 790.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y., Chilled-steel globules used as the cutting medium with core-drills. No. 132,100; June 22; v. 275; p. 812.
Ingram, Frederick F., Company, Detroit, Mich. Skin-creams, toilet powders, strengthening tonic, &c. No. 127,511; June 22; v. 275; p. 795.
International Shoe Company, St. Louis, Mo. Men's, women's, and children's shoes of leather, rubber, fabric, &c. No. 120,993; June 22; v. 275; p. 787.
Irvin & Remson, Atlanta, Ga. Medicine used in the treatment of headache. No. 127,818; June 22; v. 275; p. 796.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shoes. No. 131,271; June 22; v. 275; p. 809.
Kay Bee Manufacturing Company, Los Angeles, Calif. Electric searchlights. No. 109,749; June 22; v. 275; p. 784.
Keystone Instant Food Company, Danbury, Conn., and New York, N. Y. Clam broth, tomato soup, chicken gumbo, &c. No. 130,423; June 22; v. 275; p. 805.
Kilbey, Frank P., Junction City, Kans. Phonographs. No. 131,738; June 22; v. 275; p. 811.
Klein, Jos. A., New York, N. Y. Local anesthetics. No. 128,213; June 22; v. 275; p. 799.
Knight, William T., Shadyside, Ohio. Anti-tuberculosis relief medicine, &c. No. 127,729; June 22; v. 275; p. 795.
Kornhandler & Kane, New York, N. Y. Waists and blouses for outer wear. Nos. 126,383–4; June 22; v. 275; p. 793.
Kreider, Herman E., Painesville, Ohio. Washing-soda and water-softener. No. 127,730; June 22; v. 275; p. 796.
Krein, Frederick T., Des Moines, Iowa. Tablets for the treatment of influenza, colds, la grippe, &c. No. 129,981; June 22; v. 275; p. 804.
Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 131,529; June 22; v. 275; p. 811.
Laboratorium Leo, Dr. Phil. Ottomar Helmsius V. Mayenburg, Dresden, Germany. Tooth-pastes, tooth-powder, and tooth-wash. No. 126,186; June 22; v. 275; p. 793.
Lady Fair Gown Co., Chicago, Ill. Ladies' clothing. No. 128,784; June 22; v. 275; p. 800.
Lauter, Felix, Albany, N. Y. Cane, parasol, and umbrella-handles. No. 131,808; June 22; v. 275; p. 812.
Lee, William E., Plant City, Fla. Fresh citrus fruit. No. 129,068; June 22; v. 275; p. 801.
Lee, William E., Plant City, Fla. Fresh fruits. Nos. 129,066–7; June 22; v. 275; p. 801.
Lesher, Whitman & Co., New York, N. Y. Suitings and dress goods for clothing for men, women, and children. No. 124,722; June 22; v. 275; p. 791.

Limoges China Company, The, Sebring, Ohio. China cups, saucers, plates, and food-dishes. No. 114,042; June 22; v. 275; p. 784.
Linley, Joseph A., London, England. Chilled fresh beef, mutton, lamb, and veal. No. 116,926; June 22; v. 275; p. 785.
Lion Supply Company, The, La Fayette, Ind. Pneumatic tires of rubber and fabric. No. 123,438; June 22; v. 275; p. 789.
Locke, H. E., & Company Inc., Boston, Mass. Thread and yarn. No. 120,756; June 22; v. 275; p. 787.
Lyon & Healy, Chicago, Ill. Piano-pedals. No. 118,156; June 22; v. 275; p. 786.
Lyon & Healy, Chicago, Ill. Pianos. No. 109,401; June 22; v. 275; p. 783.
Macdonald, James, New York, N. Y. Dental cream. No. 123,442; June 22; v. 275; p. 789.
Mail and Express Company, New York, N. Y. Newspaper-column devoted to humorous current comments. No. 129,332; June 22; v. 275; p. 802.
Malkin, John E., New York, N. Y. Non-alcoholic malt beverage. No. 127,969; June 22; v. 275; p. 797.
Marburg Brothers Inc., New York, N. Y. Cane and corn knives, machetes, axes, hatchets, bolo-knives, scythes, hoes, &c. No. 123,390; June 22; v. 275; p. 789.
Marshall Field & Company, Chicago, Ill. Gingham piece goods. No. 131,491; June 22; v. 275; p. 810.
Marshall Field & Company, Chicago, Ill. Gingham piece goods. Nos. 131,494–5; June 22; v. 275; p. 811.
Menges Box Company, Louisville, Ky. Fiber-board and corrugated fiber shipping containers or cartons. No. 129,241; June 22; v. 275; p. 801.
Mercer and De Velvis, Alliance, Ohio. Liniment, disinfectant, blood-purifier, cough-syrup, &c. No. 127,971; June 22; v. 275; p. 797.
Metal Hose & Tubing Co. Inc., Brooklyn, N. Y. Fabric-covered rubber hose with metal lining. No. 128,790; June 22; v. 275; p. 800.
Metals Disintegrating Company, Inc., New York, N. Y. Disintegrated metal, metal dust, or metal powder. No. 102,989; June 22; v. 275; p. 785.
Mills Brothers Company, The, Cincinnati, Ohio. Toilet and shaving soap, shaving-cream, shampoo-soap, and metal-polish. No. 131,911; June 22; v. 275; p. 812.
Miracle Salve Company, The, Buffalo, N. Y. Salve for blood-poisoning, boils, cuts, carbuncles, &c. No. 127,765; June 22; v. 275; p. 796.
Morgo Oil Co., Buffalo, N. Y. Lubricating-oil. No. 131,035; June 22; v. 275; p. 807.
Motor Oils Inc., Chicago, Ill. Lubricating-oils, gear and cup greases. No. 129,073; June 22; v. 275; p. 801.
Mulcahy, Thomas J., New York, N. Y. Hosiery and women's underwear. No. 131,342; June 22; v. 275; p. 810.
Naday & Fleischer, Inc., New York, N. Y. Cotton piece goods. No. 132,260; June 22; v. 275; p. 813.
National Harmonicas Company, Elmira, N. Y. Mouth-organs. No. 130,333; June 22; v. 275; p. 805.
National Marine Lamp Company, The, Forestville, Conn., and New York, N. Y. Oil-cans and oilers. No. 129,075; June 22; v. 275; p. 801.
New York Industrial Alcohol Company, New York, N. Y. Non-freezing solution for internal-combustion engines. No. 125,337; June 22; v. 275; p. 792.
Nichols Copper Co., New York, N. Y. Electrolytic copper. No. 131,085; June 22; v. 275; p. 808.
Nodol Medicine Company, St. Louis, Mo. Germicide. No. 127,392; June 22; v. 275; p. 794.
Northam Warren Corporation, New York, N. Y. Face-powders and rouges in compact form. No. 127,865; June 22; v. 275; p. 796.
Nulyne Laboratories, Jackson, Mich. Lozenges, ointment for burns, scalds, cuts, wounds, and skin diseases, milk of magnesia, &c. No. 124,865; June 22; v. 275; p. 791.
Nuttall, Arthur O., Chicago, Ill. Tea. No. 129,949; June 22; v. 275; p. 803.
Osterreicher, G., & Co., The, New York, N. Y. Broad silks in the piece, charmeuses, taffetas, &c. No. 130,913; June 22; v. 275; p. 807.
O'Lee, Simon P., Nicholasville, Ky. Medicinal remedy for piles and fistulas. No. 123,586; June 22; v. 275; p. 789.
Otaka Fabric Company, Hartford, Conn. Crinkled paper fabrics. No. 130,105; June 22; v. 275; p. 804.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild (sardines). Nos. 129,656–7; June 22; v. 275; pp. 802–3.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild (sardines). No. 129,662; June 22; v. 275; p. 803.
Oversea Export Co. Ltd., The, Christiania, Norway. Brisling and sild (sardines). No. 129,672; June 22; v. 275; p. 803.
Oversea Products Corporation, New York, N. Y. Canned milk. No. 126,743; June 22; v. 275; p. 793.
Oxford-Print, Boston, Mass. Toy balls, airplanes, banks, masks, card-games, doll-furniture, &c. No. 117,986; June 22; v. 275; p. 785.
Oxweld Acetylene Company, Newark, N. J. Blowpipes, regulators, tips, and nozzles for blowpipes, &c. No. 128,106; June 22; v. 275; p. 798.

Para, John, Elizabeth, N. J. Talking-machines, record-disks, sound-boxes, and needles for same. No. 118,118; June 22; v. 275; p. 785.
Paragon Binder Corporation, New York, N. Y., and Newark, N. J. File-perforations commercially designated as punches. No. 107,480; June 22; v. 275; p. 783.
Parker Motor Truck Company, Milwaukee, Wis. Motor-trucks. No. 121,357; June 22; v. 275; p. 787.
Petersen, Victor A., Santa Barbara, Calif. Plastic composition for surfacing kitchen drain-boards, bath-tubs, &c. No. 119,260; June 22; v. 275; p. 786.
Peterson, H. S., & Co., Chicago, Ill. Hair-shampoo. No. 127,832; June 22; v. 275; p. 796.
Phorylles & Sperber, New York, N. Y. Children's frocks and rompers. No. 130,058; June 22; v. 275; p. 804.
Pro-distributors Publishing Company, Inc., New York, N. Y. Magazines or periodicals. No. 129,603; June 22; v. 275; p. 802.
Procter and Gamble Company, The, Cincinnati, Ohio. Paper pulp made from cotton-seed-hull shavings, &c. No. 128,274; June 22; v. 275; p. 799.
Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Clothes-washing machines. No. 129,341; June 22; v. 275; p. 802.
Radium Appliance Company, The, Los Angeles, Calif. Medicinal pads coated with radioactive minerals. No. 126,592; June 22; v. 275; p. 793.
Reifsnider, Arthur L., Baltimore, Md. Piston-rings. No. 127,977; June 22; v. 275; p. 797.
Reilly-Snyder Manf'g Co. Inc., New York, N. Y. Carbon-remover for gas-engine cylinders. No. 123,260; June 22; v. 275; p. 789.
Rite Mfg. Co., Cincinnati, Ohio. Middy-blouses and middy dresses. No. 129,606; June 22; v. 275; p. 802.
Riverside Hosiery Mills, Inc., Haw River, N. C. Hosiery for women and children. No. 123,171; June 22; v. 275; p. 788.
Rogers, S. A., Co., Newark, N. J. Flower and vegetable seeds. No. 127,698; June 22; v. 275; p. 795.
Rosenfield, L. E., & Co. Inc., New York, N. Y. Ladies', misses', and juniors', coats, suits, skirts, &c. No. 129,572; June 22; v. 275; p. 802.
Royal Pattern Co. Inc., The, New York, N. Y. Quarterly publication. No. 128,826; June 22; v. 275; p. 799.
Ruttenber, Arwood J., Jamestown, N. Y. Silver cleaner and polish, and radiator cleaner. No. 122,915; June 22; v. 275; p. 788.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 132,121; June 22; v. 275; p. 812.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 132,125; June 22; v. 275; p. 812.
Sampson Appliance Corporation, The, New York, N. Y. Closers for bottles. No. 131,236; June 22; v. 275; p. 809.
Samuel Ward Manufacturing Company, Boston, Mass. Lead-pencils and leads therefor. No. 117,309; June 22; v. 275; p. 785.
San Leandro Canning Co., San Leandro, Calif. Canned fruits and vegetables. No. 131,360; June 22; v. 275; p. 810.
Sanquoit Toilet Paper Company, Inc., New Hartford, N. Y. Toilet-paper. No. 132,566; June 22; v. 275; p. 813.
Schacht, Ludwig, Buffalo, N. Y. Non-alcoholic beverages. No. 125,805; June 22; v. 275; p. 792.
Scheidt, Adam, Brewing Company, Norristown, Pa. Lager-beer. No. 125,978; June 22; v. 275; p. 792.
Schoening, M. E., Co. Inc., New York, N. Y. Musical-instrument strings. No. 130,495; June 22; v. 275; p. 806.
Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. No. 127,779; June 22; v. 275; p. 796.
Sears, Roebuck and Co., Chicago, Ill. Diapers. No. 128,115; June 22; v. 275; p. 798.
Seibel, R. M., Kansas City, Mo. Alkaline antiseptic, germicide, deodorant, &c., preparation. No. 125,507; June 22; v. 275; p. 792.
Sharp & Dohme, Baltimore, Md. Anodyne astringent suppository. No. 127,335; June 22; v. 275; p. 794.
Simmons Hardware Company, St. Louis, Mo. Razors. No. 116,619; June 22; v. 275; p. 784.
Simon, R. & H., Co., Union, N. J. Ribbons in the piece. No. 120,264; June 22; v. 275; p. 787.
Sirois, N. Alphonse, Ste. Anne de la Pocatière, Canada. Medicinal preparation used as a laxative or antigalactic. No. 128,871; June 22; v. 275; p. 800.
Smith, Gerald N., Pittsburgh, Pa. Soap, soap jelly, powder, and flakes. No. 131,403; June 22; v. 275; p. 810.
Smith's Inventions Inc., Minneapolis, Minn. Oxyacetylene and hydrogen welding and cutting equipment, supplies, and accessories therefor. No. 130,295; June 22; v. 275; p. 805.
Société Anonyme, Les Produits du Naol, Paris, France. Metal-polishes. No. 117,510; June 22; v. 275; p. 785.
Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 131,833; June 22; v. 275; p. 812.
Square Deal Miller Inc., Detroit, Mich. Diamonds, sterling and plated hollow and flat ware, finger-rings, pearl beads, &c. No. 121,425; June 22; v. 275; p. 788.

(REGISTRATION APPLIED FOR.)

Staads, Soeren W., Sioux City, Iowa. Cocoa and cereal beverages. No. 104,367; June 22; v. 275; p. 783.

Standard Canning Co. Ltd., Stavanger, Norway, and Long Beach, Calif. Canned fish. No. 131,356; June 22; v. 275; p. 810.

Standard Music Roll Co., Orange, N. J. Talking-machine records and prepared music sheets and rolls. No. 131,506; June 22; v. 275; p. 811.

Stromeyer, Julius, Philadelphia, Pa. Table-syrups in sealed containers. No. 118,941; June 22; v. 275; p. 786.

Sun Electrical Company, Limited, The, London, England. Electrical fittings. No. 121,547; June 22; v. 275; p. 788.

Sweetser, George E., Company, New York, N. Y. Men's dress-shirts and underwear made of textile fabric. No. 121,029; June 22; v. 275; p. 787.

Swindells, Earl O., Providence, R. I. Antiseptic mouth-wash. No. 127,943; June 22; v. 275; p. 797.

Sylvester & Levy, Inc., New York, N. Y. Cotton cloths in the piece. No. 130,776; June 22; v. 275; p. 806.

Synvita Products Company, The, Lima, Ohio. Flavoring compounds for foods. No. 130,297; June 22; v. 275; p. 805.

Taylor Brothers, Camden, N. J. Automobile accessories—namely, spark-plugs. No. 130,301; June 22; v. 275; p. 805.

Taylor, Walter, Hammondsport, N. Y. Unfermented grape-juice. No. 130,777; June 22; v. 275; p. 806.

Todd Oil & Paint Co., The, Cleveland, Ohio. Lubricating oils and greases. No. 130,394; June 22; v. 275; p. 805.

Trippe, Barker & Co., New York, N. Y. Cotton cloth in the piece. No. 131,133; June 22; v. 275; p. 808.

Trippe, Barker & Co., New York, N. Y. Cotton skirtings in the piece. No. 131,136; June 22; v. 275; p. 808.

Uncle Sam Associates, Incorporated, Boston, Mass. Magazine published monthly. No. 127,670; June 22; v. 275; p. 795.

Unexcelled Shirt Co., New York, N. Y. Men's negligée shirts. No. 130,305; June 22; v. 275; p. 805.

United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 130,996; June 22; v. 275; p. 807.

United Mills Company, Louisville, Ky. Hosiery. No. 131,864; June 22; v. 275; p. 810.

United States Fuel-Saving Equipments Corporation, Charlottesville, Va. Metallic fuel-saving attachments for heaters. No. 121,368; June 22; v. 275; p. 788.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Overalls. No. 129,912; June 22; v. 275; p. 803.

Universal Candy Company, Chicago, Ill. Boxed candy, chocolate and sugar candy, candy confections and candy made of nuts. No. 118,576; June 22; v. 275; p. 786.

Valdosta Mill & Elevator Co., Valdosta, Ga. Cornmeal. No. 132,961; June 22; v. 275; p. 814.

Vermorel & Rendu, Lyon, France. Mincing-machines. No. 129,198; June 22; v. 275; p. 801.

Vesta Battery Corporation, Chicago, Ill. Electric batteries—namely, ignition, starting, and lighting, electric headlights, lamps, &c., for automobiles. No. 131,051; June 22; v. 275; p. 807.

Victorius, A. V., & Company, New York, N. Y. Hosiery. No. 127,408; June 22; v. 275; p. 794.

Voorhees, Joseph P., New York, N. Y. Hosiery. No. 130,999; June 22; v. 275; p. 807.

Warner-Godfrey Co., New York, N. Y. Cotton piece goods—viz., voile. No. 129,765; June 22; v. 275; p. 803.

Washington Steel and Ordnance Company, Washington, D. C. Drop-forgings in the form of unfinished goods. No. 132,496; June 22; v. 275; p. 813.

Wendland, Herman G., Bay City, Mich. Hosiery. No. 128,288; June 22; v. 275; p. 799.

West Coast Soap Co., Oakland, Calif. Soap chips. No. 131,195; June 22; v. 275; p. 808.

West Coast Soap Co., Oakland, Calif. Washing-powder. No. 131,196; June 22; v. 275; p. 808.

Western Canning Company, Oakland, Calif. Canned fruits. Nos. 124,028–9; June 22; v. 275; p. 790.

Western Canning Company, Oakland, Calif. Canned fruits and vegetables. No. 124,033; June 22; v. 275; p. 789.

Whitaker Paper Company, The, Cincinnati, Ohio. Bond-paper. No. 121,798; June 22; v. 275; p. 788.

White Heat Products Company, Frazer, Pa. Grindstones, whetstones, and abrasive powder. No. 128,378; June 22; v. 275; p. 799.

Wildroot Co. Inc., Buffalo, N. Y. Shampoo-soap in liquid and solid form. No. 131,197; June 22; v. 275; p. 808.

Williams, W. Morgan, Lavonia, Ga. Non-alcoholic syrups and beverage made therefrom. No. 131,292; June 22; v. 275; p. 809.

Windsor Print Works, North Adams, Mass., and New York, N. Y. Plain white, dyed, or printed cotton piece goods. No. 132,215; June 22; v. 275; p. 812.

Wisconsin Chair Company, The, Port Washington, Wis. Phonographs, records, albums, reproducers, and needles. No. 131,546; June 22; v. 275; p. 811.

Wrigley, Wm., Jr. Company, Chicago, Ill. Candy-coated chewing-gum. No. 129,920; June 22; v. 275; p. 803.

Wunsch, William, New York, N. Y. Soft soap. No. 102,327; June 22; v. 275; p. 783.

Wyman Partridge & Co., Minneapolis, Minn. Children's rompers and creepers. No. 127,166; June 22; v. 275; p. 793.

Wyman Partridge & Co., Minneapolis, Minn. One-piece suit for men and boys—namely, overalls. No. 127,411; June 22; v. 275; p. 794.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adding machine, Fraction-. C. Ruiz. No. 1,344,190; June 22; v. 275; p. 686.

Addressing mechanism (slug). P. F. Cox. No. 1,344,384; June 22; v. 275; p. 725.

Adjustable wrench, Quick-. A. Shoopman. No. 1,344,154; June 22; v. 275; p. 679.

Advertising device. L. D. Wheatley. No. 1,344,250; June 22; v. 275; p. 698.

Aeration-cell for flotation apparatus. E. W. Engelmann and W. T. MacDonald. No. 1,344,123; June 22; v. 275; p. 674.

Aerial navigation, Instrument for. H. E. Wimperis. No. 1,343,952; June 22; v. 275; p. 641.

Aerial propeller. A. L. Flattum. No. 1,344,496; June 22; v. 275; p. 748.

Aeroplane. H. L. Pierce. No. 1,344,314; June 22; v. 275; p. 711.

Aeroplane-shell. J. W. Nieukirk. No. 1,344,558; June 22; v. 275; p. 760.

Agricultural implement. W. R. Barker. No. 1,343,896; June 22; v. 275; p. 629.

Agricultural implement. P. P. Fazzari. No. 1,344,494; June 22; v. 275; p. 747.

Agricultural implement. R. B Mason. No. 1,344,552; June 22; v. 275; p. 758.

Air-compressor. W. C. Hampton. No 1,344,509; June 22; v. 275; p. 750.

Air-hammer attachment. A. Verdesca. No. 1,344,523; June 22; v. 275; p. 753.

Airship. G. F. Coffelt. No. 1,344,486; June 22; v. 275; p. 746.

Alarm: *See*—
Burglar-alarm. Fire-alarm.

Altimetric device for use in the production of plans and maps in relief. H. Arnold. No. 1,344,162; June 22; v. 275; p. 681.

Aluminium-solder. F. F. Boisselier. No. 1,344,165; June 22; v. 275; p. 682.

Aluminium nitrid, Production of. M. Shoeld. No. 1,344,153; June 22; v. 275; p. 679.

Aluminium-solder. J. Segura. No. 1,344,566; June 22; v. 275; p. 761.

Antirattle-catch. C. J. Hagstrom. No. 1,344,508; June 22; v. 275; p. 750.

Arcs, Means for extinguishing. E. O. Schweitzer and N. J. Conrad. (Reissue.) No. 14,897; June 22; v. 275; p. 772.

Arsenate, Making magnesium. E. O. Barstow. No. 1,344,018; June 22; v. 275; p. 654.

Ash-sifter. W. F. Goddard. No. 1,344,390; June 22; v. 275; p. 726.

Asphalt or concrete, Apparatus for cutting and breaking. J. Petermann. No. 1,344,560; June 22; v. 275; p. 760.

Auditorium-chair. R. G. Trucksess. No. 1,344,216; June 22; v. 275; p. 691.

Automobile and motor-boat, Combined. E. Sairanen. No. 1,344,317; June 22; v. 275; p. 712.

Automobile-bodies, Apparatus for conveying. J. E. McBride. No. 1,344,419; June 22; v. 275; p. 732.

Automobile-body, Convertible. J. J. McGuire. No. 1,344,546; June 22; v. 275; p. 757.

Automobile-hood support. Y. Skala. No. 1,344,095; June 22; v. 275; p. 668.

Automobile-jack. S. Heymann. No. 1,344,036; June 22; v. 275; p. 657.

Automobile-jack. S. Heymann. No. 1,344,037; June 22; v. 275; p. 657.

Automobile-lock. J. Wenning. No. 1,343,990; June 22; v. 275; p. 648.

Automobile-signal device. C. Roth. No. 1,344,355; June 22; v. 275; p. 719.

Automobile-signal. W. C. Sennett. No. 1,344,152; June 22; v. 275; p. 679.

Automobile-ventilator. F. L. Kelzer. No. 1,343,919; June 22; v. 275; p. 635.

Automobiles, Accelerator-pedal for. I. E. Whitney. No. 1,344,466; June 22; v. 275; p. 741.

Automobiles, Air-pump connector for. L. G. King. No. 1,344,539; June 22; v. 275; p. 756.

Axle, Vehicle-. A. W. Russel. No. 1,344,150; June 22; v. 275; p. 679.

Bails to container-bodies, Device for attaching. W. J. Kenny. No. 1,343,920; June 22; v. 275; p. 635.

Bake-pan, Composite. W. M. Aikman. No. 1,343,991; June 22; v. 275; p. 648.

Balancing device. J. Wilson. No. 1,344,193; June 22; v. 275; p. 687.

Barge, Coaling-. F. A. Sweet and G. G. Jamieson. No. 1,344,459; June 22; v. 275; p. 740.

Bark, Deliberizing redwood-. U. S. McMillan. No. 1,344,180; June 22; v. 275; p. 685.

Barrel-head, Removable. J. C. Streibich. No. 1,344,098; June 22; v. 275; p. 669.

Barrel, wine, and lard press. G. L. Squire. No. 1,344,156; June 22; v. 275; p. 680.

Barrels, Bung for metal. A. Schroeder. No. 1,344,457; June 22; v. 275; p. 740.

Bath attachment, Shower-. S. Bagnulo. No. 1,343,892; June 22; v. 275; p. 629.

Battery-grid. F. R. Bickhart. No. 1,343,957; June 22; v. 275; p. 642.

Battery grids, Machine for casting strips to storage-. E. Disinger. No. 1,344,294; June 22; v. 275; p. 707.

Beading-machine. O. H. Jensen. No. 1,344,405; June 22; v. 275; p. 729.

Beans for canning, Preparing green. E. J. Vaudreuil. No. 1,344,069; June 22; v. 275; p. 664.

Bearing. L. H. Vervoort. No. 1,344,524; June 22; v. 275; p. 753.

Bearing, Roller-. E. Norlund. No. 1,344,276; June 22; v. 275; p. 704.

Bearing, Wheel-. C. M. Feist. No. 1,344,495; June 22; v. 275; p. 747.

Bed, Adjustable. J. Rust. No. 1,343,985; June 22; v. 275; p. 647.

Bed, dresser, and washstand, Folding. O. B. Block. No. 1,344,257; June 22; v. 275; p. 699.

Bed, Folding. G. R. McAllaster. No. 1,344,450; June 22; v. 275; p. 738.

Bed, Folding. C. O. Pelletier. No. 1,344,188; June 22; v. 275; p. 686.

Bed-lock, Pressed-steel metal. H. Dierker. No. 1,344,583; June 22; v. 275; p. 765.

Bed-plates to sole-plates, Securing. L. D. Lovekin. No. 1,344,416; June 22; v. 275; p. 731.

Beer, Manufacture of alcohol-reduced. H. Heuser. (Reissue.) No. 14,889; June 22; v. 275; p. 771.

Belt-cutter. R. Buckingham. No. 1,344,169; June 22; v. 275; p. 682.

Belt, Power-transmitting. A. J. Belch. No. 1,344,475; June 22; v. 275; p. 743.

Belt-stretcher. W. L. Cherry. No. 1,344,485; June 22; v. 275; p. 745.

Belt, Tractor-. A. R. Blewett. No. 1,343,958; June 22; v. 275; p. 642.

Bevel, and level, Combination protractor. F. J. Goodie. No. 1,344,269; June 22; v. 275; p. 702.

Bicycle-stand. A. Hantsch. No. 1,344,226; June 22; v. 275; p. 693.

Bit: *See*—
Drill-bit.

Blotting-pad or blotter. F. N. Crowell. No. 1,344,335; June 22; v. 275; p. 715.

Board: *See*—
Game-board.

Bomb-throwing machine. W. Butler. No. 1,344,378; June 22; v. 275; p. 724.

Boot or shoe sole. J. E. Grosjean. No. 1,344,504; June 22; v. 275; p. 749.

Boots or shoes, Manufacturing composite soles for. J. E. Grosjean. No. 1,344,503; June 22; v. 275; p. 749.

Bottle attachment, Ink-. C. A. Burdick. No. 1,343,960; June 22; v. 275; p. 642.

Bottle-handling mechanism. E. E. Winkley. No. 1,344,013; June 22; v. 275; p. 653.

Bottle safety-lock. J. Byrne. No. 1,343,962; June 22; v. 275; p. 642.

Box: *See*—
Feed-box. Shipping-box.
Mail-box. Sputum-box.

Box-making machine. M. B. Diskin. No. 1,343,906; June 22; v. 275; p. 632.

Bracelet. H. Wachenheimer. No. 1,344,365; June 22; v. 275; p. 721.

Brake: *See*—
Hand-brake.

Brake. R. Schmitz. No. 1,344,598; June 22; v. 275; p. 768.

Brake mechanism. B. G. Kramer. No. 1,344,003; June 22; v. 275; p. 651.
Brake-pin. F. Schnefer. No. 1,344,596; June 22; v. 275; p. 767.
Brickmaking-machine. D. J. Strickland. No. 1,344,278; June 22; v. 275; p. 704.
Brickmaking machine, Automatic. D. J. Strickland. No. 1,344,099; June 22; v. 275; p. 669.
Bromates, Manufacture of. C. W. Jones. No. 1,343,918; June 22; v. 275; p. 635.
Broom-corn machines, Conveying mechanism for. G. E. Rudolph. No. 1,344,006; June 22; v. 275; p. 651.
Broom-corn-sizing machines, Scraping attachment for. W. M. Christopher. No. 1,344,332; June 22; v. 275; p. 715.
Brush, Shaving-. T. McMonagle. No. 1,344,050; June 22; v. 275; p. 660.
Bubble-blower. C. U. Tyrrell. No. 1,344,104; June 22; v. 275; p. 670.
Buck, Motor-. O. M. Crays. No. 1,344,385; June 22; v. 275; p. 725.
Building-protector. R. Kirchner. No. 1,344,540; June 22; v. 275; p. 756.
Burglar-alarm. O. Jacobson. No. 1,344,178; June 22; v. 275; p. 684.
Burner: *See*—
Liquid-fuel burner.
Oil-burner.
Cabinet, Dispensing-. W. J. Jandron. No. 1,343,974; June 22; v. 275; p. 645.
Cable carrying or supporting means, Electric. A. H. Lessells. No. 1,344,514; June 22; v. 275; p. 751.
Calculating-machine. M. Teetor. No. 1,344,191; June 22; v. 275; p. 687.
Camera. A. J. Miller. No. 1,344,182; June 22; v. 275; p. 685.
Camera timing attachment. P. Chilimidos. No. 1,344,440; June 22; v. 275; p. 736.
Cameras, Feeding and measuring device for rolls of sensitized strips employed in photographic. L. Miles. No. 1,344,207; June 22; v. 275; p. 690.
Camisole. L. Platt. No. 1,343,004; June 22; v. 275; p. 651.
Can: *See*—
Nozzle-can.
Can-end-lining machine. C. W Graham. No. 1,343,913; June 22; v. 275; p. 654.
Can ends and apparatus therefor, Manufacturing gasket-lined. C. W. Graham. No. 1,343,914; June 22; v. 275; p. 634.
Can-tester. W. J. Phelps. No. 1,344,515; June 22; v. 275; p. 751.
Cans, Means for attaching direction-sheets to. L. A. Wolters. No. 1,343,953; June 22; v. 275; p. 641.
Candle-finishing machines, Hoisting apparatus for. E. J. Engman. No. 1,344,445; June 22; v. 275; p. 737.
Candle-holder. E. J. Engman. No. 1,344,446; June 22; v. 275; p. 738.
Canning and cooking devices, Steam-generator for. J. W. Williams. No. 1,344,326; June 22; v. 275; p. 713.
Cap, Bottle-. F. V. Phillips. No. 1,344,516; June 22; v. 275; p. 751.
Car-brake mechanism. W. Hartill-Law. No. 1,344,129; June 22; v. 275; p. 675.
Car, Convertible railway-. R. E. Walker. No. 1,344,322; June 22; v. 275; p. 713.
Car, Convertible railway-. R. E. Walker. No. 1,344,323; June 22; v. 275; p. 713.
Car-couplings, Wear-plate for. I. H. Milliken. No. 1,344,183; June 22; v. 275; p. 685.
Car-couplings, Wear-plate for. I. H. Milliken. No. 1,344,184; June 22; v. 275; p. 685.
Car-couplings, Wear-plate for. I. H. Milliken. No. 1,344,185; June 22; v. 275; p. 685.
Car-door. W. H. McGann. No. 1,343,925; June 22; v. 275; p. 636.
Car-door hanger. P. Schneider. No. 1,344,454; June 22; v. 275; p. 739.
Car-door lock. J. Edman. No. 1,344,444; June 22; v. 275; p. 737.
Car, Dump-. F. S. Ingoldsby. No. 1,344,403; June 22; v. 275; p. 729.
Car-fender. H. Schurr. No. 1,344,213; June 22; v. 275; p. 691.
Car, Freight-. J. Oravec. No. 1,344,243; June 22; v. 275; p. 697.
Car-seal. W. K. Edgar. No. 1,344,491; June 22; v. 275; p. 747.
Car-wheel. F. A. Sweet. No. 1,344,460; June 22; v. 275; p. 740.
Cars, Air-circulating apparatus for. C. A. Moore. No. 1,344,057; June 22; v. 275; p. 661.
Cars, Drop-door for railway-. J. O. Nelkirk. No. 1,344,208; June 22; v. 275; p. 690.
Cars, Safety attachment for railway-. J. D. King. No. 1,344,231; June 22; v. 275; p. 694.
Cars, Safety attachment for railway-. J. D. King. No. 1,344,232; June 22; v. 275; p. 694.
Cars, Switch-operating device for street-railway. C. W. Collens. No. 1,344,487; June 22; v. 275; p. 746.
Carbon-black, Apparatus for producing. F. E. Paterson. No. 1,344,060; June 22; v. 275; p. 662.
Carburetor. A. J. Pichl. No. 1,343,983; June 22; v. 275; p. 646.
Carbureter attachment. J. Jones. No. 1,343,001; June 22; v. 275; p. 650.
Carbureter-heater. R. C. Burnett. No. 1,344,021; June 22; v. 275; p. 654.
Card appliance. H. Maier. No. 1,344,547; June 22; v. 275; p. 757.
Card-clipping machine, Time-. G. W. Odell. No. 1,344,059; June 22; v. 275; p. 662.
Carpet-sweeper. W. A. Fickes. No. 1,344,389; June 22; v. 275; p. 726.
Carpets, Beater for removing dust and dirt from. G. H. Backmire. No. 1,343,895; June 22; v. 275; p. 629.
Carrier: *See*—
Tire-carrier.
Woven carrier.
Case: *See*—
Signal-carrying case.
Toilet-case.
Casement-adjuster. C. J. Hagstrom. No. 1,344,507; June 22; v. 275; p. 750.
Caster. W. H. McAllister. No. 1,344,418; June 22; v. 275; p. 732.
Casting-machine, Centrifugal. J. B. Ladd. No. 1,344,409; June 22; v. 275; p. 730.
Catch device. E. F. M. Speidel. No. 1,343,939; June 22; v. 275; p. 638.
Cattle-guard. H. G. Connell and A. J. Swindall. No. 1,344,262; June 22; v. 275; p. 700.
Cattle-guard. E. Hikok and A. H. Hollenbeck. No. 1,344,535; June 22; v. 275; p. 755.
Cement-block tamper. C. H. Johnson. No. 1,344,230; June 22; v. 275; p. 694.
Cement stone for building purposes, Light-weight artificial. E. Walter. No. 1,344,324; June 22; v. 275; p. 713.
Chain, Antiskid. E. Benjestorf. No. 1,344,477; June 22; v. 275; p. 744.
Chain tightener, Skid-. C. C. Allen. No. 1,344,472; June 22; v. 275; p. 743.
Chain, Track-. P. E. Holt. No. 1,344,398; June 22; v. 275; p. 727.
Chain tracks, Track-link for. C. F. Ball. No. 1,344,373; June 22; v. 275; p. 723.
Chair: *See*—
Auditorium-chair.
Screened chair.
Collapsible chair.
Chair. B. T. and H. J. Beckman. No. 1,344,255; June 22; v. 275; p. 699.
Check, Bank-. J. Kopecky. No. 1,344,235; June 22; v. 275; p. 695.
Churn, Sanitary. J. T. Campbell. No. 1,344,022; June 22; v. 275; p. 654.
Cigarette-cases, Manufacture of. J. C. Gunn. No. 1,344,506; June 22; v. 275; p. 749.
Circle-spacing device. H. R. Heyman. No. 1,344,587; June 22; v. 275; p. 766.
Circuit-closers, Float-operated. G. W. Washington. No. 1,343,947; June 22; v. 275; p. 640.
Clamp: *See*—
Hose-clamp.
Wire-line-drilling clamp.
Clasp. A. Giardino. No. 1,344,500; June 22; v. 275; p. 748.
Clencher-rims, Tool for straightening. J. M. Cole. No. 1,344,533; June 22; v. 275; p. 755.
Clock, Loom-. M. Tamburini. No. 1,343,988; June 22; v. 275; p. 648.
Clothesline-hook. H. C. Lafferty. No. 1,344,589; June 22; v. 275; p. 766.
Clothespin. B. M. Barrickman. No. 1,344,254; June 22; v. 275; p. 699.
Clothespin-machine. B. W. Tucker. No. 1,344,217; June 22; v. 275; p. 692.
Clutch. R. Schmitz. No. 1,344,597; June 22; v. 275; p. 767.
Clutch, Multiple-disk. W. Turnbull. No. 1,344,361; June 22; v. 275; p. 720.
Clutch, Steering-. P. E. Holt. No. 1,344,399; June 22; v. 275; p. 728.
Coaling device. S. H. Buchanan. No. 1,344,481; June 22; v. 275; p. 744.
Coaster, Kiddie-. M. L. Cantrell. No. 1,344,023; June 22; v. 275; p. 654.
Coffee infusion, Apparatus for preparing. P. T. Arduino. No. 1,344,161; June 22; v. 275; p. 681.
Coil-winder. L. F. Stratton. No. 1,344,567; June 22; v. 275; p. 761.
Coin-controlled mechanism. G. L. Huff. No. 1,343,999; June 22; v. 275; p. 650.
Coin-controlled mechanism. G. L. Huff. No. 1,344,086; June 22; v. 275; p. 667.
Coke-oven-door mechanism. L. Wilputte. No. 1,344,218; June 22; v. 275; p. 692.
Collapsible chair. A. E. Albertie. No. 1,344,431; June 22; v. 275; p. 734.
Collar-supporter. W. H. Clopton, Jr. No. 1,344,586; June 22; v. 275; p. 764.
Combination-wrench. E. E. Thomas. No. 1,344,101; June 22; v. 275; p. 669.
Combustion-engine. W. C. Hurst. No. 1,344,228; June 22; v. 275; p. 694.
Concentrator. A. R. Mackie. No. 1,344,051; June 22; v. 275; p. 660.
Concrete construction, Form for. J. H. Cresmer. No. 1,344,115; June 22; v. 275; p. 672.
Concrete-pipe-making machine. G. C. Martin. No. 1,344,590; June 22; v. 275; p. 766.
Concrete wall structure, Reinforced-. V. J. Madsen. No. 1,343,926; June 22; v. 275; p. 636.

Conduit, Fabric. V. C. Gilpin and J. E. McAuliffe. No. 1,344,501; June 22; v. 275; p. 749.
Confectionery-machines, Nut-depositor for. W. E. McCorkle. No. 1,343,924; June 22; v. 275; p. 636.
Container, Collapsible. J. A. Walgren. No. 1,344,601; June 22; v. 275; p. 768.
Container, Metal. A. Schroeder. No. 1,344,455; June 22; v. 275; p. 739.
Container, Metallic. A. Schroeder. No. 1,344,456; June 22; v. 275; p. 740.
Conveyer. R. Rafn. No. 1,344,246; June 22; v. 275; p. 697.
Cooking utensil. J. A. Howard, Sr. No. 1,344,511; June 22; v. 275; p. 750.
Cornucopia-baking machine, Rotary automatic. M. J. Wolff. No. 1,344,285; June 22; v. 275; p. 705.
Corset-steel. A. J. Lecontre. (Reissue.) No. 14,892; June 22; v. 275; p. 771.
Coupling: *See*—
Draft-coupling.
Hose-coupling.
Cover-fastener. G. H. Bliss. No. 1,344,576; June 22; v. 275; p. 765.
Cradle, Transferable. E. A. Turner. No. 1,343,009; June 22; v. 275; p. 652.
Crank-handle-retaining device. O. Harp. No. 1,344,343; June 22; v. 275; p. 717.
Crank, Safety. C. Schmidt. No. 1,344,521; June 22; v. 275; p. 752.
Crate, Collapsible. E. W. Langrell and J. J. Nuss. No. 1,344,543; June 22; v. 275; p. 757.
Crushing-mill, Gyratory. W. W. Gibson. No. 1,344,584; June 22; v. 275; p. 765.
Cultivator. C. S. McCarthy, Jr. No. 1,344,138; June 22; v. 275; p. 677.
Cup: *See*—
Valve-stem-packing cup.
Curtain and shade hanger. E. J. Corrigan. No. 1,343,997; June 22; v. 275; p. 649.
Curtain and shade support, Combined. E. E. Fields. No. 1,344,298; June 22; v. 275; p. 708.
Curtain-draper, Self-adjusting. J. L. Kinikin. No. 1,344,233; June 22; v. 275; p. 695.
Curtain-fixture. S. J. Lask. No. 1,344,412; June 22; v. 275; p. 730.
Curtain-roller. E. G. Simpson. No. 1,344,358; June 22; v. 275; p. 720.
Cushion-wheel. P. H. Dorsey. No. 1,344,337; June 22; v. 275; p. 716.
Cutter: *See*—
Belt-cutter.
Ice-cream cutter.
Heel-cutter.
Worm-wheel cutter.
Cutting and molding machine. H. E. Leonard. No. 1,344,302; June 22; v. 275; p. 709.
Cylinders, Apparatus for reboring. E. E. Larson. No. 1,344,410; June 22; v. 275; p. 730.
Dams, Automatic gate-operating means for. J. D. Justin. No. 1,344,043; June 22; v. 275; p. 659.
Dental suction-plate. G. S. Whitaker. No. 1,343,950; June 22; v. 275; p. 640.
Dental suction-plates, Vacuum-cup-fastening means for. G. S. Whitaker. No. 1,343,949; June 22; v. 275; p. 640.
Detachable-body lock. W. N. Baer. No. 1,344,572; June 22; v. 275; p. 762.
Diamonds, &c., and making same, Hardened material for use in the arts as substitutes for. A. J. Liebmann and C. A. Laise. No. 1,343,976; June 22; v. 275; p. 645.
Diamonds, &c., and making same, Hardened material for use in the arts as substitutes for. A. J. Liebmann and C. A. Laise. No. 1,343,977; June 22; v. 275; p. 645.
Differential. G. W. Wilkin. No. 1,344,107; June 22; v. 275; p. 670.
Direction-indicator, Vehicle. G. E. Bates. No. 1,343,994; June 22; v. 275; p. 649.
Display device. J. K. Hackett. No. 1,344,084; June 22; v. 275; p. 666.
Display-fixtures, Spacer for panels of. H. V. Lough. No. 1,344,239; June 22; v. 275; p. 696.
Displaying device, Illuminated. J. H. Chidester. No. 1,344,379; June 22; v. 275; p. 724.
Door-hanger. G. M. Piper. (Reissue.) No. 14,893; June 22; v. 275; p. 771.
Draft attachment. A. E. Edstrom. No. 1,343,908; June 22; v. 275; p. 632.
Draft-coupling. J. W. Buller. No. 1,344,482; June 22; v. 275; p. 745.
Drawings and other records, Method of and material for making. C. H. Little. No. 1,343,978; June 22; v. 275; p. 646.
Dredge, Walking-. V. G. Anderson. No. 1,344,571; June 22; v. 275; p. 762.
Dress-suit case and locker, Combined. T. W. King. No. 1,344,408; June 22; v. 275; p. 729.
Drill-bit. P. G. Midgett. No. 1,344,425; June 22; v. 275; p. 733.
Drill-stem. R. L. Burns. No. 1,344,221; June 22; v. 275; p. 693.
Drink-mixing device. H. C. Schlicker. No. 1,344,565; June 22; v. 275; p. 761.
Drinking-cup fixture. C. Errett. No. 1,343,965; June 22; v. 275; p. 643.
Driving and stopping mechanism. J. Kiewicz. No. 1,344,345; June 22; v. 275; p. 717.
Drying apparatus. S. H. Melhuizen. No. 1,344,241; June 22; v. 275; p. 696.
Drying plant. P. Barducci. No. 1,344,163; June 22; v. 275; p. 681.
Dust-collector. C. B. Peck. No. 1,344,146; June 22; v. 275; p. 678.
Dust-separator. H. Milliken. No. 1,344,055; June 22; v. 275; p. 661.
Duster, Dustless. F. H. McGregory. No. 1,344,545; June 22; v. 275; p. 757.
Dusting and deodorizing machine. L. E. Masheck. No. 1,344,551; June 22; v. 275; p. 758.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,344,120; June 22; v. 275; p. 673.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,344,121; June 22; v. 275; p. 673.
Dynamic balances, Method of and apparatus for testing for. N. W. Akimoff. No. 1,343,954; June 22; v. 275; p. 641.
Ear ornaments, Fastening device for. H. T. Moler. No. 1,344,556; June 22; v. 275; p. 759.
Ear-snapping and corn-husking machine. J. W. Promenschenkel. No. 1,344,563; June 22; v. 275; p. 761.
Egg-tray. S. C. Beamer. No. 1,344,019; June 22; v. 275; p. 654.
Electric arch-support, Thermo-. A. R. Cooper. No. 1,344,581; June 22; v. 275; p. 764.
Electric circuits, Method and means for controlling. H. R. Canfield. No. 1,344,260; June 22; v. 275; p. 700.
Electric heating apparatus. E. F. Collins. No. 1,343,996; June 22; v. 275; p. 649.
Electric heating element. C. R. Wassell. No. 1,344,282; June 22; v. 275; p. 705.
Electric outlet members, Stud-attaching means for. C. N. Detwiler. No. 1,344,077; June 22; v. 275; p. 665.
Electric regulation. J. L. Creveling. No. 1,343,905; June 22; v. 275; p. 631.
Electric regulation. J. L. Creveling. No. 1,344,222; June 22; v. 275; p. 693.
Electric signaling. M. S. Morse. No. 1,344,308; June 22; v. 275; p. 710.
Electric switches, No-voltage release attachment for. G. A. Burnham. No. 1,343,961; June 22; v. 275; p. 642.
Electric treating and exercising machine. J. B. Kibler. No. 1,344,002; June 22; v. 275; p. 650.
Electrical communication, Method of and apparatus for. D. G. McCaa. No. 1,344,275; June 22; v. 275; p. 703.
Electrical system. R. Varley. No. 1,344,463; June 22; v. 275; p. 741.
Electroller. L. Roth. No. 1,344,452; June 22; v. 275; p. 739.
Electroller. L. M. Wood. No. 1,344,251; June 22; v. 275; p. 698.
Electrolytic apparatus. E. O. Benjamin. No. 1,344,220; June 22; v. 275; p. 692.
Electromotive device. G. M. Albrecht. No. 1,344,196; June 22; v. 275; p. 688.
Electromotive device. G. M. Albrecht. No. 1,344,197; June 22; v. 275; p. 688.
Elevator: *See*—
Portable elevator.
Elevator lock, Electromagnetic. W. J. Wigmore. No. 1,344,436; June 22; v. 275; p. 734.
Elevator safety system. W. T. Dunford. No. 1,344,266; June 22; v. 275; p. 701.
Engine: *See*—
Combustion-engine.
Rotary engine.
Internal-combustion engine.
Traction-engine.
Engine. J. O. Carrey. No. 1,344,331; June 22; v. 275; p. 715.
Engines, Circuit-controller for explosive-. R. Varley. No. 1,344,464; June 22; v. 275; p. 741.
Engines, Controlling mechanism for internal-combustion. C. A. Muller. No. 1,343,980; June 22; v. 275; p. 646.
Engines, Electric vapor-heater for internal-combustion. W. F. Little. No. 1,344,303; June 22; v. 275; p. 709.
Engines, Increasing the power of gas-. G. F. Shaver. No. 1,343,928; June 22; v. 275; p. 638.
Engines, Means for cooling the pistons of internal-combustion. W. Schmidt. No. 1,344,090; June 22; v. 275; p. 667.
Engines, Muffler for explosive-. E. E. Wickersham. No. 1,344,367; June 22; v. 275; p. 722.
Engines, Spark control and governor for internal-combustion. H. L. Thompson. No. 1,343,943; June 22; v. 275; p. 639.
Envelop. G. A. Hoffman. No. 1,344,394; June 22; v. 275; p. 727.
Envelop. E. L. Webster. No. 1,344,071; June 22; v. 275; p. 664.
Envelop-sealer. A. Bevan. No. 1,344,375; June 22; v. 275; p. 723.
Equalizer. N. Croonholm. No. 1,344,334; June 22; v. 275; p. 715.
Expansible washer. L. D. Lovekin. No. 1,344,417; June 22; v. 275; p. 731.
Feed-box. R. R. Sickler. No. 1,344,094; June 22; v. 275; p. 668.
Feed device, Automatic. W. K. Edgar. No. 1,344,492; June 22; v. 275; p. 747.
Fence stretcher, Wire-. R. H. Patterson. No. 1,344,312; June 22; v. 275; p. 711.
Fender: *See*—
Car-fender.
Fiber-treating machine. H. M. Dudley. No. 1,344,122; June 22; v. 275; p. 673.

Filter. E. J. Sweetland. No. 1,344,215; June 22; v. 275; p. 691.
Fire-alarm, Automatic. S. O. Abrahamsen. No. 1,344,471; June 22; v. 275; p. 742.
Fire-bucket. W. R. Myers. No. 1,344,557; June 22; v. 275; p. 759.
Fire-indicating system, Marine. W. H. Freygang, W. Kidde, and B. G. Worth. No. 1,343,911; June 22; v. 275; p. 633.
Firearm, Automatic. H. W. Gabbett-Fairfax. No. 1,344,499; June 22; v. 275; p. 748.
Fish, Smoking and drying apparatus for. T. G. Norland. No. 1,344,350; June 22; v. 275; p. 718.
Fishing-reel. F. M. Case. No. 1,344,289; June 22; v. 275; p. 706.
Flash-light holder. T. A. Williams. No. 1,344,073; June 22; v. 275; p. 664.
Floor or ceiling plate. A. J. Beaton. No. 1,344,219; June 22; v. 275; p. 692.
Floor structure. I. W. Mason. No. 1,344,181; June 22; v. 275; p. 685.
Flour-mill. J. H. Rousseau and A. Coté. No. 1,344,453; June 22; v. 275; p. 739.
Flower-holder. M. G. Tilney. No. 1,344,526; June 22; v. 275; p. 754.
Flying-machine. M. Fedders. No. 1,344,297; June 22; v. 275; p. 708.
Flying-machine. J. W. Webb. No. 1,344,283; June 22; v. 275; p. 705.
Footrest. A. M. Hunter. No. 1,344,402; June 22; v. 275; p. 728.
Frame: *See*—
Ophthalmic-lens frame.
Friction and flexing apparatus for testing materials. A. E. Jury. No. 1,344,301; June 22; v. 275; p. 709.
Fuel, Gas-generator and combustion-chamber for pulverized. T. Clouston. No. 1,344,333; June 22; v. 275; p. 715.
Fuel-regulator. H. E. Reeve. (Reissue.) No. 14,894; June 22; v. 275; p. 771.
Fuel-regulator. H. E. Reeve. (Reissue.) No. 14,895; June 22; v. 275; p. 772.
Furnace: *See*—
Heating-furnace.
Furnace. H. E. Smythe. No. 1,344,458; June 22; v. 275; p. 740.
Furnace-grate. J. A. Packard. No. 1,344,144; June 22; v. 275; p. 678.
Furnaces, Producing cement of liquid slags in electric. K. G. Wennerström. No. 1,343,948; June 22; v. 275; p. 640.
Furniture, Article of. J. H. Phillips. No. 1,344,277; June 22; v. 275; p. 704.
Fuse, Plug-. A. L. Eustice. No. 1,344,296; June 22; v. 275; p. 708.
Fuse-plug. W. G. Stoeser. No. 1,344,359; June 22; v. 275; p. 720.
Gage: *See*—
Pressure-gage.
Gage. J. Switzer. No. 1,344,569; June 22; v. 275; p. 762.
Gage or gate mechanism. A. Broadmeyer. No. 1,344,167; June 22; v. 275; p. 682.
Game apparatus, Race-. R. M. Brenner. No. 1,344,480; June 22; v. 275; p. 744.
Game-board, Pocket. J. H. Ramsay. No. 1,343,984; June 22; v. 275; p. 647.
Garment-hanger. D. Goldsmith. No. 1,344,391; June 22; v. 275; p. 726.
Gas-generator. G. H. Bentley and E. G. Appleby. No. 1,343,995; June 22; v. 275; p. 649.
Gas-heater. C. M. Mogni. No. 1,344,555; June 22; v. 275; p. 759.
Gases, Apparatus for cleaning. G. W. Hewitt and A. Steinbart. No. 1,344,585; June 22; v. 275; p. 765.
Gases, Treating liquids with. W. E. Greenawalt. No. 1,344,031; June 22; v. 275; p. 656.
Gasket for inflation-tube connections. A. A. Ewald. No. 1,344,028; June 22; v. 275; p. 655.
Gasolene-dispensing device. J. Black. No. 1,344,478; June 22; v. 275; p. 744.
Gear-wheel, Spiral-cut. B. Ljunström. No. 1,343,923; June 22; v. 275; p. 636.
Gearing, Shaft-hanger. C. N. Cady. No. 1,344,439; June 22; v. 275; p. 736.
Gearing, Transmission-. P. C. Day. No. 1,343,963; June 22; v. 275; p. 643.
Gearing, Variable-speed-transmission. W. C. Stevens. No. 1,344,319; June 22; v. 275; p. 712.
Generator: *See*—
Gas-generator.
Geometric figure. E. T. Miller. No. 1,344,053; June 22; v. 275; p. 661.
Girder. W. S. Hutchinson. No. 1,344,229; June 22; v. 275; p. 694.
Glass cylinders, Drawing. W. Westbury. No. 1,344,325; June 22; v. 275; p. 713.
Glass, Manufacturing ruby. M. Meth. No. 1,344,141; June 22; v. 275; p. 677.
Glass-pressing machine. F. W. Stewart. No. 1,343,987; June 22; v. 275; p. 647.
Golf-club. T. H. Grant. No. 1,343,998; June 22; v. 275; p. 650.
Grain-nickler. A. E. Rockola. No. 1,344,148; June 22; v. 275; p. 678.
Grain-shocking machine. A. McDonald. No. 1,344,348; June 22; v. 275; p. 718.
Grate. W. J. Ratekin. No. 1,344,062; June 22; v. 275; p. 662.
Grate, Gas-kindling. S. Grotkowski. No. 1,344,341; June 22; v. 275; p. 716.
Grinder. C. Jackson. No. 1,344,133; June 22; v. 275; p. 676.
Gripper mechanism. C. F. Pym. No. 1,344,316; June 22; v. 275; p. 712.
Gun-carriage. P. E. Holt. No. 1,344,397; June 22; v. 275; p. 727.
Gun-carriages and other vehicles, Removable tire for the wheels of. E. Schneider. No. 1,343,936; June 22; v. 275; p. 638.
Hand, Artificial. G. A. Shirer. No. 1,344,357; June 22; v. 275; p. 720.
Hand-brake. J. F. O'Connor. No. 1,344,309; June 22; v. 275; p. 710.
Handle: *See*—
Saw-handle.
Hanger: *See*—
Car-door hanger. Door-hanger.
Curtain and shade hanger. Garment-hanger.
Hanger. W. D. Banes. No. 1,344,110; June 22; v. 275; p. 671.
Harrow, Disk. F. C. Warne. No. 1,344,159; June 22; v. 275; p. 680.
Harvester and thresher, Combined. B. C. Holt. No. 1,344,396; June 22; v. 275; p. 727.
Harvester, Corn-. W. A. Zimpfer. No. 1,344,017; June 22; v. 275; p. 653.
Harvesting implement. A. R. Grounds. No. 1,344,033; June 22; v. 275; p. 656.
Harvesting-machine. W. L. Hendricks. No. 1,344,130; June 22; v. 275; p. 675.
Headlight antiglare device. W. Bennett. No. 1,344,164; June 22; v. 275; p. 682.
Headlight-shield. F. J. Newton. No. 1,344,594; June 22; v. 275; p. 767.
Heat, Producing. C. E. Lucke. No. 1,344,049; June 22; v. 275; p. 660.
Heater: *See*—
Carbureter-heater. Gas-heater.
Heater. G. W. Coen. No. 1,344,381; June 22; v. 275; p. 724.
Heating-furnace. W. C. Buell, Jr. No. 1,344,436; June 22; v. 275; p. 735.
Heating-furnace. W. C. Buell, Jr. No. 1,344,437; June 22; v. 275; p. 736.
Heating-furnace. W. C. Buell, Jr., and J. W. Griswold. No. 1,344,438; June 22; v. 275; p. 736.
Heating plants, Attachment for steam-. F. B. Dawley. No. 1,344,292; June 22; v. 275; p. 707.
Heel-cutter. C. S. Reamy. No. 1,344,247; June 22; v. 275; p. 697.
Heel molds, Washer-setter for rubber-. F. Krivosky and J. Stoykovich. No. 1,344,237; June 22; v. 275; p. 695.
Heel, Shoe-. F. Sahr. No. 1,344,356; June 22; v. 275; p. 719.
Heels, Attaching means for rubber. J. W. Denmead. No. 1,344,443; June 22; v. 275; p. 737.
Heeling-machine. T. Lund. No. 1,344,305; June 22; v. 275; p. 709.
Hemorrhoids and resection of prolapsus recti, Instrument for the removal of. A. W. Hauman. No. 1,344,227; June 22; v. 275; p. 694.
High-tension discharge apparatus. G. D. Rogers. (Reissue.) No. 14,896; June 22; v. 275; p. 772.
Hinge. J. B. Bradley. No. 1,344,479; June 22; v. 275; p. 744.
Hinge. J. Soss. (Reissue.) No. 14,899; June 22; v. 275; p. 773.
Hinge, Spring-. J. Kaufman. No. 1,344,538; June 22; v. 275; p. 756.
Hoe and spade, Combination. Z. T. Blackman. No. 1,344,256; June 22; v. 275; p. 699.
Hoisting and conveying machine, Power. I. Ferguson. No. 1,343,966; June 22; v. 275; p. 643.
Hook: *See*—
Clothesline-hook. Lifting or sling hook.
Hose-clamp. F. D. Blackburn. No. 1,344,433; June 22; v. 275; p. 735.
Hose-coupling. H. R. Gilson. No. 1,343,967; June 22; v. 275; p. 643.
Hydraulic-gear jack. A. W. Hilliard. No. 1,344,510; June 22; v. 275; p. 750.
Hydraulic ingredient and making same. F. M. Meyer. No. 1,343,929; June 22; v. 275; p. 636.
Ice-cream cornucopias, Combined trimming and nesting machine for. M. J. Wolff. No. 1,344,286; June 22; v. 275; p. 706.
Ice-cream cutter. C. S. Raia. No. 1,343,932; June 22; v. 275; p. 637.
Ice-cream, Packaging. J. B. Dalton. (Reissue.) No. 14,887; June 22; v. 275; p. 770.
Ice-machine. W. C. Grant. No. 1,344,502; June 22; v. 275; p. 749.
Incubator. F. W. Mueller. No. 1,344,591; June 22; v. 275; p. 766.
Indicator: *See*—
Direction-indicator. Wind-indicator.
Inking-plate. O. Eads. No. 1,344,026; June 22; v. 275; p. 655.

Insulator. W. T. Goddard. (Reissue.) No. 14,888; June 22; v. 275; p. 770.
Intake-manifolds, Electrical preheating attachment for automobile. G. T. Newell, Jr. No. 1,344,242; June 22; v. 275; p. 696.
Intensifier. H. R. Walker. No. 1,344,528; June 22; v. 275; p. 754.
Internal-combustion engine. E. Crouse. No. 1,344,263; June 22; v. 275; p. 701.
Internal-combustion engine. P. D. Johnston. No. 1,344,407; June 22; v. 275; p. 729.
Internal-combustion engine, Rotating. J. J. Walk. No. 1,344,158; June 22; v. 275; p. 680.
Internal-combustion-engine-testing device. R. G. Edgerton. No. 1,344,387; June 22; v. 275; p. 726.
Jack: *See*—
Automobile-jack. Lifting-jack.
Hydraulic gear-jack.
Jack. E. B. Bird. No. 1,344,575; June 22; v. 275; p. 763.
Jewelry-setting. B. K. Benson. No. 1,344,111; June 22; v. 275; p. 671.
Joint: *See*—
Rail-joint.
Lock: *See*—
Automobile-lock. Elevator-door lock.
Bed-lock. Keyless lock.
Bottle safety-lock. Nut-lock.
Car-door lock. Sash-lock.
Detachable-body lock.
Journal-box lid. J. S. Creedy. No. 1,344,175; June 22; v. 275; p. 683.
Journal-boxes, Oiling device for. F. R. and C. J. M. Weber. No. 1,344,465; June 22; v. 275; p. 741.
Keyless lock. E. J. Rebsamen. No. 1,344,517; June 22; v. 275; p. 752.
Kilns, Air-conditioning apparatus for drying-. H. N. Andrews and R. M. Holmes. No. 1,343,894; June 22; v. 275; p. 629.
Knitting-machines, Facilitating the mechanical transfer of stitches from needles of. L. N. D. Williams. No. 1,344,468; June 22; v. 275; p. 742.
Labeling containers. M. Galibert. No. 1,344,080; June 22; v. 275; p. 665.
Labeling-machine. M. Galibert. No. 1,344,081; June 22; v. 275; p. 666.
Labeling-machine. G. S. Morris. No. 1,344,426; June 22; v. 275; p. 733.
Lamp. W. C. Coleman. No. 1,344,200; June 22; v. 275; p. 689.
Lamp, Electric. G. E. Ricker. No. 1,344,429; June 22; v. 275; p. 734.
Lamp, Emergency-. W. J. Koenig. No. 1,344,206; June 22; v. 275; p. 690.
Lamp, Signal-. W. N. Best. No. 1,343,899; June 22; v. 275; p. 630.
Lath-boards, Machine for molding. G. H. Ellis. No. 1,343,909; June 22; v. 275; p. 632.
Lead, Making arsenate of. O. F. Hedenburg and D. S. Pratt. No. 1,344,035; June 22; v. 275; p. 657.
Leather-press. J. T. Smith. No. 1,344,214; June 22; v. 275; p. 691.
Leather-working machine. R. E. Whitney. No. 1,344,467; June 22; v. 275; p. 742.
Lever and fulcrum, Interlocking flush-tank. W. U. Griffiths. No. 1,344,128; June 22; v. 275; p. 675.
Lid and strainer, Pouring-spout. O. E. Jenson. No. 1,344,039; June 22; v. 275; p. 658.
Life-preserver. W. J. May. No. 1,343,928; June 22; v. 275; p. 636.
Lifting device or grapple. M. Clogston. No. 1,344,174; June 22; v. 275; p. 683.
Lifting-jack. C. W. Ripsch, J. C. Dawley, and C. D. Derby. No. 1,344,117; June 22; v. 275; p. 672.
Lifting or sling hook. W. J. Oliver. No. 1,344,187; June 22; v. 275; p. 686.
Line-holder, Builder's. C. H. Gross. No. 1,344,224; June 22; v. 275; p. 693.
Lip-guard. J. Diegucz y Lopez and F. Alcañiz y Bascompte. No. 1,344,179; June 22; v. 275; p. 684.
Liquid-fuel burner. J. C. Lockhart. No. 1,344,414; June 22; v. 275; p. 640.
Liquid-fuel burner. W. A. Tacker. No. 1,343,945; June 22; v. 275; p. 731.
Lock. L. E. Cantrell. No. 1,344,484; June 22; v. 275; p. 745.
Lock. C. Wolf. No. 1,344,469; June 22; v. 275; p. 742.
Lock device for gear-shift levers. C. E. Mentzer. No. 1,344,554; June 22; v. 275; p. 759.
Locomotive-axles, Lateral take-up device for. H. B. Furstonburg. No. 1,344,267; June 22; v. 275; p. 702.
Locomotives, Tool for facilitating the casting of hub-liners on bearing-boxes for. C. Guggenbuehler. No. 1,344,083; June 22; v. 275; p. 666.
Logs, Grappling-hook for skidding. S. Thomas. No. 1,344,320; June 22; v. 275; p. 712.
Looms, Belt-holder for. K. Eckert. No. 1,344,177; June 22; v. 275; p. 684.
Looms, Shuttle for side-motion-feeler. E. S. Stimpson. No. 1,344,066; June 22; v. 275; p. 663.
Looms, Thread-cutting temple for. E. S. Stimpson. No. 1,344,065; June 22; v. 275; p. 663.
Looms, Warp-opening mechanism for. J. Towers. No. 1,344,667; June 22; v. 275; p. 663.
Magnetic and electric polarity indicator, Combination. C. W. Eisenmann. No. 1,344,388; June 22; v. 275; p. 726.
Mail-box. W. F. Walker. No. 1,344,281; June 22; v. 275; p. 704.
Mandrel, Box-. M. B. Diskin. No. 1,343,907; June 22; v. 275; p. 632.
Mask, Open-face gas-. G. A. Mickelson. No. 1,344,349; June 22; v. 275; p. 718.
Mattress-tufting machine. J. W. Bowersox. No. 1,344,605; June 22; v. 275; p. 769.
Measuring machine, Cloth-. L. L. Scott. (Reissue.) No. 14,898; June 22; v. 275; p. 772.
Metal-frame screen. C. A. Shogren. No. 1,344,093; June 22; v. 275; p. 668.
Metal strips, Method of and apparatus for forming. C. H. Brasted. No. 1,344,577; June 22; v. 275; p. 763.
Metallic-leaf-applying device. J. Moscini. No. 1,344,427; June 22; v. 275; p. 733.
Metallurgical process. W. E. Greenawalt. No. 1,344,030; June 22; v. 275; p. 656.
Metallurgical process. W. E. Greenawalt. No. 1,344,127; June 22; v. 275; p. 674.
Middlings-mill. A. Wolf. No. 1,344,470; June 22; v. 275; p. 742.
Milking-machine. A. C. Macartney. No. 1,344,140; June 22; v. 275; p. 677.
Mill: *See*—
Crushing-mill. Middlings-mill.
Flour-mill. Reducing-mill.
Mine, Marine. F. W. Hampton. No. 1,343,969; June 22; v. 275; p. 644.
Mining-machine. C. E. Davis. No. 1,344,201; June 22; v. 275; p. 689.
Mixer: *See*—
Wet-mixer.
Mixing-machine. J. D. Lacroix and A. H. Petersen. No. 1,344,541; June 22; v. 275; p. 756.
Molding-machine. P. W. Gates. No. 1,344,126; June 22; v. 275; p. 674.
Molding-machine. J. T. Stoney. No. 1,343,940; June 22; v. 275; p. 639.
Molds, Making. J. T. Stoney. No. 1,343,941; June 22; v. 275; p. 639.
Mop. E. E. Bessett. No. 1,344,112; June 22; v. 275; p. 671.
Mop-head. W. B. Beam. No. 1,344,198; June 22; v. 275; p. 688.
Moth-repellent holders, Support for. J. S. Slye and S. H. Bishop. No. 1,344,318; June 22; v. 275; p. 712.
Mounts and prints, Machine for beveling the edges of. A. P. Hoard. No. 1,343,972; June 22; v. 275; p. 644.
Mower blades, Machine for sharpening lawn-. C. F. Brown. No. 1,344,168; June 22; v. 275; p. 682.
Music-roll-controlling mechanism. W. G. Betz. No. 1,344,574; June 22; v. 275; p. 763.
Music-sheet container and turner, Portable. A. M. Bean. No. 1,344,374; June 22; v. 275; p. 723.
Necktie form and holder. W. A. Smith. No. 1,344,248; June 22; v. 275; p. 697.
Nozzle-can. L. Klingman. No. 1,343,921; June 22; v. 275; p. 635.
Nozzle, Product-picking. H. H. Holdaway and T. R. Gabel. No. 1,344,205; June 22; v. 275; p. 689.
Nut-lock. J. F. Comly. No. 1,344,534; June 22; v. 275; p. 755.
Nut, Lock-. W. R. Lorenz. No. 1,344,544; June 22; v. 275; p. 757.
Nut-marking machine. W. D. Simpson. No. 1,343,607; June 22; v. 275; p. 651.
Oil, Apparatus for burning. A. Fischer. No. 1,344,029; June 22; v. 275; p. 656.
Oil-burner. C. C. Manker. No. 1,344,421; June 22; v. 275; p. 732.
Oil-machine. A. Chermak. No. 1,344,261; June 22; v. 275; p. 700.
Oils, Vaporizer for heavy. C. C. Manker. No. 1,344,423; June 22; v. 275; p. 733.
Oiler, Automatic. R. G. Flege. No. 1,344,078; June 22; v. 275; p. 665.
Oilers, &c., Automatic means for operating flange-. C. F. Hoofer. No. 1,343,973; June 22; v. 275; p. 644.
Ophthalmic-lens frame. E. J. R. Beattey. No. 1,344,474; June 22; v. 275; p. 743.
Ophthalmic mounting. G. H. Day. No. 1,344,293; June 22; v. 275; p. 707.
Oranges, Treating. M. Henius. No. 1,343,915; June 22; v. 275; p. 634.
Ore-separator, Centrifugal. J. A. Rice. No. 1,344,519; June 22; v. 275; p. 752.
Orifice-precipitator. L. Bradley. No. 1,344,330; June 22; v. 275; p. 714.
Ornament-support. J. E. Eyllsizor and C. Follrath. No. 1,344,027; June 22; v. 275; p. 655.
Pan: *See*—
Bake-pan.
Paper and making it, Wall-. J. J. Warren. No. 1,344,570; June 22; v. 275; p. 762.
Paper-clip. H. Baldwin. No. 1,344,473; June 22; v. 275; p. 743.
Paper-machines, Guide-roll for. R. J. Byron. No. 1,344,171; June 22; v. 275; p. 683.
Paper-making apparatus. J. J. Warren. No. 1,344,603; June 22; v. 275; p. 769.
Parachute. A. Kaminski. No. 1,344,044; June 22; v. 275; p. 659.

Pen, Hinged ruling-. F. W. Kluever. No. 1,344,045; June 22; v. 275; p. 659.
Penholder. C. E. Baldwin. No. 1,344,329; June 22; v. 275; p. 714.
Pencil, Mechanical. R. G. C. Boa. No. 1,344,434; June 22; v. 275; p. 735.
Petrol or gasolene, Making. C. R. Burke. No. 1,344,258; June 22; v. 275; p. 700.
Phonograph attachment. R. W. Morrison. No 1,344,186; June 22; v. 275; p. 686.
Photographic surfaces and article, Preserving sensitized. F. P. McColl and W. W. Willison. No. 1,344,240; June 22; v. 275; p. 696.
Piano-players, Pressure-reserve method and mechanism for. J. W. Dickinson. No. 1,344,386; June 22; v. 275; p. 725.
Pin: *See*—
Brake-pin.
Pipe and means for connecting same. E. T. Greenfield. No. 1,344,032; June 22; v. 275; p. 656.
Pipe-line. F. Urbina. No. 1,344,321; June 22; v. 275; p. 712.
Piston packing-ring. O. W. Hanson. No. 1,344,342; June 22; v. 275; p. 717.
Pitchers, Removable top for. D. A. Jenkins. No. 1,344,404; June 22; v. 275; p. 729.
Planes when stationary and moving, Modification of. J. T. Patterson. No. 1,344,248; June 22; v. 275; p. 697.
Plastic composition. A. L. V. Nilsson. No. 1,344,058; June 22; v. 275; p. 662.
Plow. E. M. Heyman. No. 1,344,586; June 22; v. 275; p. 765.
Plow-beams, Draft-head for. E. G. Hines. No. 1,344,131; June 22; v. 275; p. 675.
Pneumatic controller. S. B. T. Worden. No. 1,344,328; June 22; v. 275; p. 714.
Pneumatic wheel. E. B. Hudson. No. 1,344,401; June 22; v. 275; p. 728.
Pocket, Garment-. H. Brown. No. 1,344,075; June 22; v. 275; p. 665.
Polysulfid solutions, Treating. E. C. Holton. (Reissue.) No. 14,890; June 22; v. 275; p. 771.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,344,271; June 22; v. 275; p. 703.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,344,272; June 22; v. 275; p. 703.
Post-splicing clamp. H. O. McMillan. No. 1,344,139; June 22; v. 275; p. 677.
Potato-bug-trapping machine. J. M. Drake. No. 1,344,119; June 22; v. 275; p. 673.
Power device, Auxiliary. J. Cowley and R. C. Dils. No. 1,344,582; June 22; v. 275; p. 704.
Press: *See*—
Barrel, wine, and lard press.
Leather-press.
Pressure-gage. W. M. Fulton. No. 1,344,340; June 22; v. 275; p. 716.
Printers' roller composition, Apparatus for the reclaiming of used. T. H. Grozier. No. 1,344,270; June 22; v. 275; p. 702.
Printing-machine. H. L. Dodge. No. 1,344,489; June 22; v. 275; p. 746.
Printing machine, Web-. O. L. Raabe. No. 1,343,931; June 22; v. 275; p. 637.
Pulp-machine. J. G. Carrier. No. 1,344,173; June 22; v. 275; p. 683.
Pulp-machine, Wet. H. A. Constantine. No. 1,344,024; June 22; v. 275; p. 654.
Pulp separators, Automatic density-indicator for slime-. C. Allen. No. 1,344,370; June 22; v. 275; p. 722.
Pump for excavating air from condensers, refrigerating plants, and the like, Air-. B. and F. Ljungström. No. 1,343,929; June 22; v. 275; p. 635.
Pump-operating mechanism. T. R. Minert. No. 1,344,056; June 22; v. 275; p. 661.
Punch, Rail-bond. W. C. Brenner. No. 1,343,901; June 22; v. 275; p. 630.
Punching-machine. V. R. Bottone. No. 1,344,435; June 22; v. 275; p. 735.
Purifying materials, Manufacture of. C. Massatsch. No. 1,343,927; June 22; v. 275; p. 636.
Rack: *See*—
Sterilizer-rack.
Radiator. C. C. Manker. No. 1,344,422; June 22; v. 275; p. 732.
Radiator, Cooling-. E. F. Norelius and W. Turnbull. No. 1,344,351; June 22; v. 275; p. 718.
Radiator-cover. J. A. Brodin. No. 1,344,376; June 22; v. 275; p. 723.
Radiator-support. A. L. W. Ohmacht. No. 1,344,559; June 22; v. 275; p. 760.
Radiotelegraphy. R. G. Marx and L. F. Fuller. No. 1,344,052; June 22; v. 275; p. 660.
Rail-anchor. B. Wolhaupter. No. 1,344,014; June 22; v. 275; p. 653.
Rail-anchor. B. Wolhaupter. No. 1,344,015; June 22; v. 275; p. 653.
Rail-anchor. B. Wolhaupter. No. 1,344,016; June 22; v. 275; p. 653.
Rail-bracing-spike retainer. G. C. Wortman. No. 1,344,109; June 22; v. 275; p. 671.
Rail-joint. A. L. Wartman. No. 1,344,604; June 22; v. 275; p. 769.
Rail-section. Adjustable switch-point. P. Camell. No. 1,344,259; June 22; v. 275; p. 700.
Railway-crossings, Signal and gate operating means for. J. Virag. No. 1,344,525; June 22; v. 275; p. 753.
Railway-rails, Connecting means for. J. C. David. No. 1,344,336; June 22; v. 275; p. 715.
Railway signaling system. H. A. Wallace. No. 1,344,070; June 22; v. 275; p. 664.
Railway-track appliance. A. A. Jardin. No. 1,344,134; June 22; v. 275; p. 676.
Range. R. L. Poe. No. 1,344,061; June 22; v. 275; p. 662.
Razor. W. H. Brasier. No. 1,343,900; June 22; v. 275; p. 630.
Razor, Safety-. C. F. Hammon. No. 1,344,447; June 22; v. 275; p. 738.
Razor-strop and cabinet, Endless. C. A. Shoup. No. 1,344,522; June 22; v. 275; p. 753.
Reamer, Adjustable. E. E. Larson. No. 1,344,411; June 22; v. 275; p. 730.
Receptacles, Sanitary. H. E. Ames. No. 1,344,531; June 22; v. 275; p. 754.
Reducing-mill. E. B. Campbell. (Reissue.) No. 14,886; June 22; v. 275; p. 770.
Reel: *See*—
Fishing-reel.
Refractory product and making same. C. W. Thomas. No. 1,344,461; June 22; v. 275; p. 741.
Register-reset. C. Carson. No. 1,344,288; June 22; v. 275; p. 706.
Regulator: *See*—
Fuel-regulator.
Resawing-machine. C. B. Sprague. No. 1,344,096; June 22; v. 275; p. 668.
Resilient wheel. D. S. Beach. No. 1,343,898; June 22; v. 275; p. 630.
Resilient wheel. M. Jungling. No. 1,344,513; June 22; v. 275; p. 751.
Resilient wheel. H. R. Shafer. No. 1,343,986 June 22; v. 275; p. 647.
Retarded switch. H. W. Cheney. No. 1,344,199; June 22; v. 275; p. 688.
Reversing mechanism. F. W. Wappat. No. 1,344,606; June 22; v. 275; p. 770.
Rim, Demountable. W. H. Rounds. No. 1,344,212; June 22; v. 275; p. 691.
Ring: *See*—
Piston packing-ring.
Road-guide. S. L. Gayle. No. 1,344,262; June 22; v. 275; p. 702.
Rotary engine. S. E. Kochendarfer. No. 1,344,137; June 22; v. 275; p. 676.
Rotary mechanism. A. E. Horman. No. 1,344,085; June 22; v. 275; p. 666.
Rubber hose from sticking during manufacture, Preventing the inner walls of. F. C. Moore. No. 1,344,143; June 22; v. 275; p. 677.
Ruler. W. J. Hahn. No. 1,343,968; June 22; v. 275; p. 644.
Ruling apparatus. A. Broadmeyer. No. 1,344,166; June 22; v. 275; p. 682.
Rust-preventing solution and preparing same. W. Elsenhauer. No. 1,344,338; June 22; v. 275; p. 716.
Saddle-spring support. T. J. Condon. No. 1,344,382; June 22; v. 275; p. 724.
Sash-lock. C. Lombardo. No. 1,344,048; June 22; v. 275; p. 660.
Sash-locking device, Window-. C. M. Jacobs. No. 1,344,038; June 22; v. 275; p. 657.
Sash screen, Swinging. F. Reese. No. 1,343,933; June 22; v. 275; p. 637.
Saw-handle. H. Topping. No. 1,344,103; June 22; v. 275; p. 670.
Saw, Pipe and tube. L. W. Nonneman. No. 1,344,428; June 22; v. 275; p. 734.
Saw-shifter. W. G. Hagmaier. No. 1,344,203; June 22; v. 275; p. 689.
Scale or rule for centering typewritten or other work, Centering. R. B. Funk. No. 1,343,912; June 22; v. 275; p. 633.
Screen: *See*—
Metal-frame screen. Sash-screen.
Screen or shield, Protecting. J. Kozik. No. 1,344,558; June 22; v. 275; p. 766.
Screened chair, Foldable. S. Stransky. No. 1,344,097; June 22; v. 275; p. 669.
Sealing containers, Means for hermetically. H. A. Baker. No. 1,343,955; June 22; v. 275; p. 641.
Seam. R. R. Hughes, Jr. No. 1,344,006; June 22; v. 275; p. 650.
Seat structure. C. A. Hoehn. No. 1,343,916; June 22; v. 275; p. 634.
Selvage-forming device. H. Le Doux. No. 1,344,413; June 22; v. 275; p. 730.
Separator: *See*—
Dust-separator. Ore-separator.
Sewer-cleaning apparatus. W. H. Stewart. No. 1,344,249; June 22; v. 275; p. 698.
Sewing-machines, Thread-controlling device for. F. W. Merrick. No. 1,344,424; June 22; v. 275; p. 733.
Sewing mechanism. A. H. Weis. No. 1,344,284; June 22; v. 275; p. 705.
Shade, Roller-. J. Johnstone. No. 1,344,448; June 22; v. 275; p. 738.

Shaft-hanger or plumber-block. J. D. Waern. No. 1,344,527; June 22; v. 275; p. 754.
Shears, Punching-. E. E. Cornell. No. 1,344,488, June 22; v. 275; p. 746.
Sheet-form material, Machine for cutting. W. F. Simpson. No. 1,344,155; June 22; v. 275; p. 680.
Shelf-facing. G. H. E. Davis. No. 1,344,223; June 22; v. 275; p. 693.
Shelving. H. A. Wieman. No. 1,344,106; June 22; v. 275; p. 670.
Ship-protector. P. Sangoff. No. 1,344,151; June 22; v. 275; p. 679.
Ships, Apparatus for raising. W. F. Grumme. No. 1,344,505; June 22; v. 275; p. 749.
Ships, Propulsion and steering of. E. S. G. Rees. No. 1,344,518; June 22; v. 275; p. 752.
Shipping-box. E. C. Potter. No. 1,344,147; June 22; v. 275; p. 678.
Shock-absorber. E. V. Hartford. No. 1,343,970; June 22; v. 275; p. 644.
Shock-absorber. M. H. Naber. No. 1,344,593; June 22; v. 275; p. 767.
Shoe-tree. A. R. Anderson. No. 1,343,891; June 22; v. 275; p. 629.
Shoes, Snap-fasteners for. S. Tadakuma. No. 1,343,942; June 22; v. 275; p. 639.
Shower and cleaning device. G. E. Treese. No. 1,343,008; June 22; v. 275; p. 652.
Shuttle. T. Matloob. No. 1,344,553; June 22; v. 275; p. 759.
Sifting device, Ash-. A. Elkins. No. 1,344,493; June 22; v. 275; p. 747.
Signal: *See*—
Automobile-signal.
Signal-carrying case. J. P. Rodenbur. No. 1,344,564; June 22; v. 275; p. 761.
Signal device, Portable. J. E. Genn. No. 1,344,082; June 22; v. 275; p. 666.
Skate, Water-. G. Halbow. No. 1,344,225; June 22; v. 275; p. 693.
Sleeve-protector. D. V. D. Whitaker. No. 1,344,011; June 22; v. 275; p. 652.
Slicing-machine. C. A. Dies. No. 1,344,118; June 22; v. 275; p. 673.
Soles, Machine for operating on. A. E. Johnson. No. 1,344,041; June 22; v. 275; p. 658.
Soles, Machine for operating on. T. H. Seely. No. 1,344,063; June 22; v. 275; p. 663.
Solutions, Making and transporting. F. W. Thorold. No. 1,344,102; June 22; v. 275; p. 670.
Sound-amplifier. J. Mersman. No. 1,344,307; June 22; v. 275; p. 710.
Spark-gap indicator. T. F. Johnson, Jr. No. 1,344,042; June 22; v. 275; p. 658.
Spark-plug. L. Cammen and A. W. Ofeldt. No. 1,344,172; June 22; v. 275; p. 683.
Spark-plug. W. H. Zeigler. No. 1,344,530; June 22; v. 275; p. 754.
Spark-wheel-toothing machine. A. L. Hansen. No. 1,344,299; June 22; v. 275; p. 708.
Speed-changing-gear system. J. Tomoda. No. 1,343,944; June 22; v. 275; p. 639.
Spot-lights, Universal joint for. E. H. Howard. No. 1,344,344; June 22; v. 275; p. 717.
Spring: *See*—
Vehicle-spring.
Spring-coiling machine. E. C. Danner. No. 1,344,116; June 22; v. 275; p. 672.
Spring-wheel. W. A. Burger and W. Gross. No. 1,344,483; June 22; v. 275; p. 745.
Spring-wheel. G. Cartasso. No. 1,344,579; June 22; v. 275; p. 764.
Spring-wheel. H. Wileman. No. 1,344,012; June 22; v. 275; p. 653.
Sputum-box. H. H. Colestock. No. 1,344,442; June 22; v. 275; p. 737.
Stacking mechanism. F. V. Hart. No. 1,344,034; June 22; v. 275; p. 657.
Stairway, Disappearing. T. N. Badger and W. G. Smith. No. 1,344,371; June 22; v. 275; p. 723.
Stairs, Protective pad for. N. C. Parker. No. 1,344,310; June 22; v. 275; p. 711.
Stake, Pocket-. J. Hayes. No. 1,344,393; June 22; v. 275; p. 727.
Stamp attachment, Rubber-. F. E. Frost. No. 1,344,079; June 22; v. 275; p. 665.
Stand: *See*—
Bicycle-stand.
Starter. T. E. Collins. No. 1,344,291; June 22; v. 275; p. 707.
Steel, Iron, and similar articles, Treatment of. H. C. Baines. No. 1,344,372; June 22; v. 275; p. 723.
Steel sheets, Manufacture of manganese-. R. A. Hadfield. No. 1,344,392; June 22; v. 275; p. 726.
Steering apparatus. E. A. Parmele and T. McLean. No. 1,344,352; June 22; v. 275; p. 719.
Steering-gear. F. H. Ragan. No. 1,344,005; June 22; v. 275; p. 651.
Steering transmission, Positive-reduction. E. E. Wickersham. No. 1,344,368; June 22; v. 275; p. 722.
Steering-wheels, Writing attachment for automobile. A. C. Fox. No. 1,344,498; June 22; v. 275; p. 748.
Stein. A. G. Wiedmann. No. 1,344,672; June 22; v. 275; p. 664.
Sterilizer-rack. H. Baehr. No. 1,344,252; June 22; v. 275; p. 698.
Stitching machine, Book-. M. Christensen. No. 1,344,441; June 22; v. 275; p. 736.
Stoking mechanism, Automatic. J. A. Carey. No. 1,344,578; June 22; v. 275; p. 764.
Stone making, Artificial-. R. I. Kline. No. 1,344,087; June 22; v. 275; p. 667.
Stool or chair, Adjustable. H. Shaw. No. 1,344,092; June 22; v. 275; p. 668.
Stove, Gas-. S. Kobe. No. 1,344,136; June 22; v. 275; p. 676.
Stoves, Safety attachment for gas-. H. Baehr. No. 1,344,253; June 22; v. 275; p. 698.
Stretcher, sick-bed, and the like. M. Lundbom. No. 1,344,088; June 22; v. 275; p. 667.
Submarine detecting and destroying apparatus. W. E. Williams. No. 1,344,074; June 22; v. 275; p. 665.
Sugar-mill housings, Top cap for. J. I. Boyer. No. 1,344,287; June 22; v. 275; p. 706.
Sulfite, Making sodium. E. O. Barstow. No. 1,343,897; June 22; v. 275; p. 630.
Superheater, Steam-. W. L. Riley. No. 1,344,211; June 22; v. 275; p. 690.
Supporter. R. E. Uhl. No. 1,344,068; June 22; v. 275; p. 664.
Switch: *See*—
Retarded switch.
Tablet-press. R. S. Schoenkerman. No. 1,344,091; June 22; v. 275; p. 667.
Tack-holder. F. G. Sweeney. No. 1,344,157; June 22; v. 275; p. 680.
Tap, Collapsing. E. M. Buckins. No. 1,344,113; June 22; v. 275; p. 672.
Teeth, Method and device for producing plates for. M. Rice. No. 1,343,935; June 22; v. 275; p. 638.
Telephone-repeater, Automatic. R. G. Richardson. No. 1,344,210; June 22; v. 275; p. 690.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,343,903; June 22; v. 275; p. 631.
Telephone system. G. A. Yanochowski. No. 1,344,195; June 22; v. 275; p. 687.
Telephone system, Automatic. F. J. Truby. No. 1,343,989; June 22; v. 275; p. 648.
Tension device. C. T. Evans. No. 1,343,910; June 22; v. 275; p. 633.
Thermo-couples, Compensating device for. C. B. Thwing. No. 1,344,462; June 22; v. 275; p. 741.
Thread-gages, Manufacture of. J. Samotej. No. 1,344,607; June 22; v. 275; p. 770.
Thread package or holder. R. Reynolds. No. 1,343,934; June 22; v. 275; p. 637.
Threshing-machine. O. Steinborn. No. 1,344,590; June 22; v. 275; p. 768.
Ticket-holder. F. E. McDonald. No. 1,344,420; June 22; v. 275; p. 732.
Timer. J. A. Holm. No. 1,344,395; June 22; v. 275; p. 727.
Tire. F. Ditchfield. No. 1,344,025; June 22; v. 275; p. 655.
Tire-carrier, Adjustable. W. R. Green. No. 1,344,202; June 22; v. 275; p. 689.
Tire carrier, Vehicle-. W. E. Dunstan. No. 1,343,964; June 22; v. 275; p. 643.
Tire, Cushion. F. A. Krusemark, L. G. Funkhouser, and H. G. Carpenter. No. 1,344,346; June 22; v. 275; p. 718.
Tires, Carcass fabric for pneumatic. J. F. Palmer. No. 1,344,145; June 22; v. 275; p. 678.
Toilet article, Combination. R. E. Brown. No. 1,343,959; June 15; v. 275; p. 642.
Toilet-case. H. Felsenthal and L. W. Kaestner. No. 1,344,124; June 22; v. 275; p. 674.
Tool, Auto-rim. P. O. Probasco. No. 1,344,562; June 22; v. 275; p. 710.
Tool, Carbon-removing. H. F. Martin. No. 1,344,549; June 22; v. 275; p. 758.
Tool, Combination-. O. T. Carlson. No. 1,344,114; June 22; v. 275; p. 672.
Tool, Combination-. O. Lee. No. 1,344,046; June 22; v. 275; p. 659.
Tool, Command. W. H. Crummey. No. 1,344,264; June 22; v. 275; p. 701.
Tool, Compound pneumatic impact-. W. Burlingham. No. 1,344,170; June 22; v. 275; p. 683.
Tool-holder. G. Kalberer. No. 1,344,557; June 22; v. 275; p. 756.
Tool, Machine-. H. G. Krauss. No. 1,344,236; June 22; v. 275; p. 695.
Tool, Precision machine-. A. E. Jerram. No. 1,344,536; June 22; v. 275; p. 755.
Tool, Tire-. J. Bjornlie. No. 1,343,893; June 22; v. 275; p. 629.
Tool, Tire-repair. H. R. Hirst. No. 1,343,971; June 22; v. 275; p. 644.
Tool, Valve-face-cutting. H. F. Martin. No. 1,344,550; June 22; v. 275; p. 758.
Tool, Vulcanizing-. O. A. Peterson and O. M. Brancel. No. 1,344,313; June 22; v. 275; p. 711.
Tongue-depressor. C. M. Bushee. No. 1,344,020; June 22; v. 275; p. 654.
Toy. G. H. Marsden. No. 1,344,548; June 22; v. 275; p. 758.
Toy. M. L. J. Richard. No. 1,344,451; June 22; v. 275; p. 739.

Toy. J. J. Soulliard. No. 1,344,064; June 22; v. 275; p. 663.
Toy airplane. P. O. Roth. No. 1,344,520; June 22; v. 275; p. 752.
Traction-engine. W. Turnbull. No. 1,344,360; June 22; v. 275; p. 720.
Tractor. J. W. Livermore. No. 1,343,979; June 22; v. 275; p. 646.
Tractor. J. F. M. Patitz. No. 1,344,209; June 22; v. 275; p. 690.
Tractor-frame suspension. W. Turnbull. No. 1,344,363; June 22; v. 275; p. 721.
Transformer. High-voltage. S. E. Johannesen. (Reissue.) No. 14,891; June 22; v. 275; p. 771.
Transmission mechanism, Double-gear-. E. E. Wickersham. No. 1,344,366; June 22; v. 275; p. 722.
Trees: *See*—
Shoe-tree.
Trolley-hangers, Attaching device for. J. A. Neely. No. 1,343,930; June 22; v. 275; p. 637.
Truck, Ash-. C. E. Le Page. No. 1,344,047; June 22; v. 275; p. 659.
Truck, Dumping-. A. D. Talt. No. 1,344,100; June 22; v. 275; p. 669.
Tubes, Apparatus for forming metallic. E. Warner. No. 1,343,946; June 22; v. 275; p. 640.
Tubes, Forming. W. N. Vance. No. 1,344,105; June 22; v. 275; p. 670.
Turbine-blade attachment. C. A. Parsons, S. S. Cook, and A. J. Aldis. No. 1,344,311; June 22; v. 275, p. 711.
Turbine, Steam-. K. Baumann. No. 1,343,956; June 22; v. 275; p. 641.
Twine-holder. C. W. Hubbard. No. 1,344,274; June 22; v. 275; p. 703.
Type-holder. G. Hoffman. No. 1,343,917; June 22; v. 275; p. 634.
Typewriting-machine. W. A. Lorenz. No. 1,344,304; June 22; v. 275; p. 709.
Umbrella. J. A. Hughes and T. E. Herington. No. 1,344,132; June 22; v. 275; p. 675.
Umbrella or parasol holder. A. E. Pierce. No. 1,344,245; June 22; v. 275; p. 697.
Underreamer. E. C. and W. W. Wilson. No. 1,344,327; June 22; v. 275; p. 714.
Valve. G. A. Vis. No. 1,344,364; June 22; v. 275; p. 721.
Valve, Back-pressure and relief. F. Henneböhle. No. 1,344,360; June 22; v. 275; p. 708.
Valve, Dry-pipe. E. E. Clark. No. 1,344,380; June 22; v. 275; p. 724.
Valve for pneumatic tools. W. S. Whyte. No. 1,343,951; June 22; v. 275; p. 641.
Valve for refrigerating apparatus, Control-. G. L. E. Kothny. No. 1,343,975; June 22; v. 275; p. 645.
Valve, Governor-controlled throttle. W. Turnbull. No. 1,344,362; June 22; v. 275; p. 721.
Valve, Pressure-regulating. W. F. Conran. No. 1,344,383; June 22; v. 275; p. 725.
Valve, Six-way. R. M. Downie. No. 1,344,490; June 22; v. 275; p. 746.
Valve-stem packing-cup. H. A. Lee. No. 1,344,347; June 22; v. 275; p. 718.
Vehicle. R. Barrett. No. 1,343,993; June 22; v. 275; p. 649.
Vehicle, Motor-. J. G. Vincent. No. 1,344,279; June 22; v. 275; p. 704.
Vehicle, Self-propelled. H. T. Preble. No. 1,344,353; June 22; v. 275; p. 719.
Vehicle, Self-propelled R. M. Willis. No. 1,344,108; June 22; v. 275; p. 671.
Vehicle-spring. A. Hallner. No. 1,344,204; June 22; v. 275; p. 689.
Vehicle-wheel. C. E. P. Julien. No. 1,344,512; June 22; v. 275; p. 751.
Vehicles, Clutch-lever stop for motor-. S. G. Warner. No. 1,344,602; June 22; v. 275; p. 769.
Vehicles, Safety device for road-. W. Lavallee. No. 1,344,238; June 22; v. 275; p. 696.
Vehicles, Short-circuiting lock for motor-. H. A. Zehringer. No. 1,344,369; June 22; v. 275; p. 722.
Vending-machine. W. Meyer. No. 1,344,142; June 22; v. 275; p. 677.
Vending-machine. C. B. Wright. No. 1,344,160; June 22; v. 275; p. 681.
Ventilating window-section and screen. R. Miller and W. E. Turney. No. 1,344,054; June 22; v. 275; p. 661.
Ventilator: *See*—
Automobile-ventilator.
Violin, Piano-. C. R. Fleming. No. 1,344,497; June 22; v. 275; p. 748.
Washer: *See*—
Expansible washer.
Washer. J. G. Wright. No. 1,344,194; June 22; v. 275; p. 687.
Water-heating device. E. A. Screiber. No. 1,343,937; June 22; v. 275; p. 638.
Washing-machine. E. F. Poland. No. 1,344,089; June 22; v. 275; p. 667.
Watering device, Cattle-. H. C. Rassmann. No. 1,344,189; June 22; v. 275; p. 686.
Wear take-up for slides. P. W. Murphy. No. 1,344,592; June 22; v. 275; p. 767.
Weather-strip. E. J. Craig. No. 1,343,904; June 22; v. 275; p. 631.
Weighing-machine. F. A. Emery and A. A. Adams. No. 1,344,295; June 22; v. 275; p. 708.
Weighing-machine. T. M. Foote. No. 1,344,339; June 22; v. 275; p. 716.
Weight, Sash-. A. B. Cressler, L. B. Nees, and H. B. Baumbach. No. 1,344,176; June 22; v. 275; p. 684.
Welding apparatus, Electric. F. V. D. Longacre. No. 1,344,415; June 22; v. 275; p. 731.
Welding, Process and product of electric. E. Fulda. No. 1,344,125; June 22; v. 275; p. 674.
Well-sinking apparatus. M. J. Chapman. No. 1,343,902; June 22; v. 275; p. 631.
Wet-mixer. R. V. Mattison, Jr. No. 1,344,306; June 22; v. 275; p. 710.
Wheel: *See*—
Car-wheel.
Cushion-wheel.
Gear-wheel.
Pneumatic wheel.
Resilient wheel.
Spring-wheel.
Vehicle-wheel.
Wheel construction. R. D. Streby. No. 1,344,600; June 22; v. 275; p. 768.
Wheel knuckle-joints, Reinforcement for. W. E. Candenburgh and G. S. Grems. No. 1,344,192; June 22; v. 275; p. 687.
Wheel-rims, Tool for contracting and expanding demountable. G. W. Armagost. No. 1,343,992; June 22; v. 275; p. 648.
Wheels, Antiskid attachment for. J. H. Hogston. No. 1,344,273; June 22; v. 275; p. 703.
Wind-indicator. C. R. Post. No. 1,344,315; June 22; v. 275; p. 711.
Windshield. C. Wells. No. 1,344,010; June 22; v. 275; p. 652.
Winding-machine. J. C. Anderson. No. 1,344,432; June 22; v. 275; p. 735.
Winding mechanism. C. D. Lanning. No. 1,344,449; June 22; v. 275; p. 738.
Window. J. W. White. No. 1,344,529; June 22; v. 275; p. 754.
Window-frame with sash-cord holder. T. Christoffel. No. 1,344,532; June 22; v. 275; p. 755.
Window, Ventilating-. C. Poehner. No. 1,344,561; June 22; v. 275; p. 760.
Windows, Package for disassembled vehicle-curtain. A. E. Johnson. No. 1,344,135; June 22; v. 275; p. 676.
Wire-drawing machine. D. C. Sullivan, G. L. Hawkins, and W. J. MacMillan. No. 1,344,568; June 22; v. 275; p. 761.
Wire, Electrical-resistance. A. H. Johnson. No. 1,344,406; June 22; v. 275; p. 729.
Wire-fabric machine. P. A. and W. V. Reid and J. Kelley. No. 1,344,595; June 22; v. 275; p. 767.
Wire-line-drilling clamp. G. F. Bell. No. 1,344,476; June 22; v. 275; p. 743.
Wood sanding or polishing machine. J. M. Nash. No. 1,343,981; June 22; v. 275; p. 646.
Work-support. L. A. Casgrain. No. 1,344,290; June 22; v. 275; p. 706.
Work threading or cutting units, Power means for. W. W. Vosper. No. 1,344,280; June 22; v. 275; p. 704.
Worm-wheel cutter. A. E. Parnall. No. 1,343,982; June 22; v. 275; p. 646.
Woven carrier. H. C. Brothers. No. 1,344,377; June 22; v. 275; p. 724.
Wrench: *See*—
Adjustable wrench.
Combination-wrench.
Wrench. C. C. Barnes. No. 1,344,573; June 22; v. 275; p. 763.
Wrench. L. Doonar. No. 1,344,265; June 22; v. 275; p. 701.
Wrench. W. A. Kirkpatrick. No. 1,344,234; June 22; v. 275; p. 695.
Wrench. J. H. Lane. No. 1,344,542; June 22; v. 275; p. 757.
Yarn-tension device. L. T. Houghton. No. 1,344,400; June 22; v. 275; p. 728.
Yokes to cart-poles, Device for connecting ox-. R. Ramos and A. de Cardenas. No. 1,344,354; June 22; v. 275; p. 719.

ALPHABETICAL LIST OF DESIGNS.

Aeroplane. G. H. Curtiss. No. 55,504; June 22; v. 275; p. 774.
Antiseptic tablet. H. Wipf. No. 55,542; June 22; v. 275; p. 781.
Bundle-tier-machine frame. A. H. Saxton and J. J. Bachmayer. No. 55,533; June 22; v. 275; p. 779.
Cabinet, Phonograph-. H. Orsenigo. No. 55,527; June 22; v. 275; p. 778.
Cabinet, Vending-. D. Sheerin. No. 55,534; June 22; v. 275; p. 780.
Candy or chewing-gum tablet. J. H. Smith and C. D. Blackmon. No. 55,536; June 22; v. 275; p. 780.
Cigar-cutter. W. A. Franck. No. 55,509; June 22; v. 275; p. 775.
Coffee or tea service, Crystal. H. C. Biette. No. 55,501; June 22; v. 275; p. 773.
Doll. C. C. Cooley. No. 55,503; June 22; v. 275; p. 774.
Doll. G. F. Gillespie. No. 55,511; June 22; v. 275; p. 775.
Drawing instrument. E. L. Snyder. No. 55,538; June 22; v. 275; p. 780.
Fabric, Textile. C. Katz., No. 55,517; June 22; v. 275; p. 776.
Fabric, Textile. E. Krupicka. No. 55,519; June 22; v. 275; p. 777.
Fabric, Textile. L. F. Orcutt. No. 55,526; June 22; v. 275; p. 778.
Fabric, Textile. R. L. Reinhart. Nos. 55,530–1; June 22; v. 275; p. 779.
Fabric, Textile. W. G. Reith. No. 55,532; June 22; v. 275; p. 779.
Flag, Superservice-. W. J. Smith. No. 55,537; June 22; v. 275; p. 780.
Floor-covering, Sheet. A. C. Heyman. No. 55,514; June 22; v. 275; p. 776.
Gage and regulator-casing, Combined pressure-. G. A. Baudet. No. 55,500; June 22; v. 275; p. 773.
Knife-rest. J. R. Huthmaker and W. R. Leas. No. 55,516; June 22; v. 275; p. 776.
Lace. E. A. Davis. No. 55,505; June 22; v. 275; p. 774.
Lace. T. O. Kümalehto. No. 55,518; June 22; v. 275. p. 777.
Lace. F. Meyer. No. 55,522; June 22; v. 275; p. 777.
Paper, Decorative. G. E. Shropshire. No. 55,535; June 22; v. 275; p. 780.
Paper-weight. W. C. Gamble. No. 55,510; June 22; v. 275; p. 775.
Pin, Hook-. W. A. Houston. No. 55,515; June 22; v. 275; p. 776.
Precious, semiprecious, or synthetic stone, or an imitation thereof. S. Heller. Nos. 55,512–13; June 22; v. 275; p. 776.
Pulley-block. J. H. Flynn, Jr. No. 55,508; June 22; v. 275; p. 775.
Radiant for gas-heaters. W. A. Wilson. No. 55,541; June 22; v. 275; p. 781.
Radiator-cap and temperature-indicating instrument, Combined motor-vehicle. H. H. Boyce. No. 55,502; June 22; v. 275; p. 773.
Rubber boot or shoe sole. W. E. Piper. No. 55,528; June 22; v. 275; p. 778.
Rubber overshoe or similar article, Sole of a. W. E. Piper. No. 55,529; June 22; v. 275; p. 779.
Spoon, Kitchen-. G. S. Tarbell. 55,540; June 22; v. 275; p. 781.
Statuette. W. J. Nowak. No. 55,525; June 22; v. 275; p. 778.
Statuette. A. J. Ziv. No. 55,543; June 22; v. 275; p. 781.
Test-clip. R. S. Mueller. No. 55,524; June 22; v. 275; p. 778.
Timepiece-dial. E. A. Marsh. Nos. 55,520–1; June 22; v. 275; p. 777.
Timepiece-dial. H. S. Montgomery. No. 55,523; June 22; v. 275; p. 777.
Tire, Non-skid. W. E. Duersten. No. 55,507; June 22; v. 275; p. 775.
Tire-tread, Non-skid. E. N. Downes. No. 55,506; June 22; v. 275; p. 774.
Window. J. Sowalski. No. 55,539; June 22; v. 275; p. 780.

ALPHABETICAL LIST OF TRADE-MARKS.

Alcohol, Methyl. The Will Corporation. No. 132,591; June 22; v. 275; p. 825.
Alloys of copper, tin, zinc, &c. Phosphor Bronze Smelting Company. No. 132,484; June 22; v. 275; p. 821.
Anilins and dyestuffs. W. R. Grace & Co. No. 135,393; June 22; v. 275; p. 818.
Antiseptic astringent deodorant. Rhea Chemical Company. No. 132,503; June 22; v. 275; p. 822.
Antiseptic demulcent corrective. Burwell & Dunn Co. No. 132,312; June 22; v. 275; p. 816.
Antiseptic for use in the nose. J. O. Beauchamp. No. 132,295; June 22; v. 275; p. 815.
Antiseptic germicide and deodorant. C. L. Stocks. No. 132,544; June 22; v. 275; p. 823.
Antiseptic tablets. Sharp & Dohme. No. 132,523; June 22; v. 275; p. 823.
Antiseptic used as a gargle, mouth-wash, &c., Liquid. Saxo-Chemical Co. No. 132,511; June 22; v. 275; p. 822.
Antiseptics. Spirocide Corporation. No. 132,577; June 22; v. 275; p. 824.
Apples, Fresh. Denney & Co. No. 132,355; June 22; v. 275; p. 817.
Arsenical compounds, Solutions of medicinal. Lowy Laboratory. No. 132,441; June 22; v. 275; p. 820.
Automobiles. Re Vere Motor Car Corporation. Nos. 132,501–2; v. 275; p. 822.
Bacteriological culture. T. A. Walsh. No. 132,579; June 22; v. 275; p. 824.
Baking-powder. J. A. De Luca. No. 132,354; June 22; v. 275; p. 817.
Baking-powder. The Great Atlantic and Pacific Tea Company. No. 132,397; June 22; v. 275; p. 818.
Bath and lounging robes and smoking-jackets. Chas. M. Schwartz. No. 132,516; June 22; v. 275; p. 822.
Belts, Abrasive or grinding. Manning Abrasive Company. No. 132,453; June 22; v. 275; p. 820.
Beverage, Cereal malt. J. Hauenstein. No. 132,408; June 22; v. 275; p. 819.
Beverage, Malt. Greensburg Brewing Company. No. 132,399; June 22; v. 275; p. 818.
Beverages, Malt cereal. Rainier Products Company. Nos. 132,496–7; June 22; v. 275; p. 822.
Beverage and syrup for making same, Non-alcoholic. J. H. Crome. No. 132,344; June 22; v. 275; p. 817.
Beverage, Non-alcoholic. Joseph Krieg-Fink Co. No. 132,433; June 22; v. 275; p. 820.
Beverage, Non-alcoholic, &c. Arrow Products Co. No. 132,290; June 22; v. 275; p. 815.
Beverage, Non-alcoholic herb. Frank & Lewis Company. No. 132,376; June 22; v. 275; p. 818.
Beverage, Non-intoxicating cereal. Indianapolis Brewing Co. No. 132,418; June 22; v. 275; p. 819.
Beverage, Non-intoxicating non-cereal maltless. H. T. Dewey & Sons Co. No. 132,358; June 22; v. 275; p. 817.
Beverages, Chemical compound for use in the manufacture of. Economical Materials Co. No. 132,365; June 22; v. 275; p. 817.
Beverages, Culture or ferment employed in the production of cereal. M. Wahl. No. 132,573; June 22; v. 275; p. 824.
Beverages, Non-alcoholic maltless. Florida Fruit Juice Co. No. 132,372; June 22; v. 275; p. 818.
Blankets and cloth in the piece, Woolen. Gumbinsky Bros. Company. No. 132,400; June 22; v. 275; p. 818.
Blood-purifier. H. Silverman. No. 132,526; June 22; v. 275; p. 823.
Blue, Wash-. Simeon & Elting. No. 132,527; June 22; v. 275; p. 823.
Boiler-preserver. P. L. O'Neill. No. 132,472; June 22; v. 275; p. 821.
Boots and shoes of leather, &c. J. & T. Cousins Co. No. 132,341; June 22; v. 275; p. 817.
Burlaps, ducks, drills, &c. Goodin Reid & Co. No. 132,391; June 22; v. 275; p. 818.
Butter-serving machines. Food Appliances Manufacturing Corporation. No. 132,373; June 22; v. 275; p. 818.
Camisoles, Ladies' silk. Kirschner-Hendler Co. No. 132,431; June 22; v. 275; p. 820.
Candles, Package-. W. Williams. No. 132,595; June 22; v. 275; p. 825.
Canned fruits. Amalgamated Trading Company. No. 132,282; June 22; v. 275; p. 815.
Canned fruits. Bay Side Canning Co. No. 132,293; June 22; v. 275; p. 815.
Canned fruits and tomatoes. O. A. Nelson; Nos. 132,462–3; June 22; v. 275; p. 821.
Canned fruits and vegetables. China, Japan & South America Trading Co. No. 132,330; June 22; v. 275; p. 816.
Canned fruits and vegetables. Croker Packing Co. No. 132,343; June 22; v. 275; p. 817.

Canned salmon and oysters. Getz Bros. & Co. No. 132,385; June 22; v. 275; p. 818.
Canned vegetables and dried fruits. California Packing Corporation. No. 132,318; June 22; v. 275; p. 816.
Capsules for headache, Medicated. C. P. Sohn. No. 132,535; June 22; v. 275; p. 823.
Capsules, Urinary antiseptic. Sharp & Dohme. No. 132,522; June 22; v. 275; p. 823.
Carbon-preventive or gas intensifier. Chemical. C. A. Butler. Nos. 132,314–5; June 22; v. 275; p. 816.
Cellulose compound used in preparing collodion embedding-tissues for microscopic specimens. The Will Corporation. No. 134,592; June 22; v. 275; p. 825.
Chains for agricultural and other machinery and apparatus. Locke Steel Chain Company. No. 132,439; June 22; v. 275; p. 820.
Chemicals, medicines, and pharmaceutical preparations. United Drug Company. No. 132,568; June 22; v. 275; p. 824.
Cherries, Preserved. Dr. Enrico Parodi Delfino. No. 152,352; June 22; v. 275; p. 817.
Cleaning and scouring powder. Lekko Soap Company. No. 132,437; June 22; v. 275; p. 820.
Cleaning compounds. Sunbeam Products Company. No. 132,557; June 22; v. 275; p. 824.
Cleaning compound for removing road oils and tars from autos and clothing. R. O. R. Chemical Co. No. 132,328; June 22; v. 275; p. 816.
Cleaning-polish for glass, &c. R. Rodriquez. No. 132,504; June 22; v. 275; p. 822.
Cleansing preparation for white shoes, gloves, and belts. E. H. Johnson. No. 132,424; June 22; v. 275; p. 819.
Cloaks and suits, Misses' and children's. E. J. Wile & Co. No. 132,589; June 22; v. 275; p. 825.
Cloth, Shoe-. Seamans & Cobb Co. No. 132,519; June 22; v. 275; p. 822.
Clothing. L. F. Sturm. No. 132,552; June 22; v. 275; p. 824.
Clothing. M. N. Mayehoff & Co. No. 132,457; June 22; v. 275; p. 820.
Clothing. Nichols Underwear Corporation. No. 132,466; June 22; v. 275; p. 821.
Clothing for women. Chandler & Co. No. 132,327; June 22; v. 275; p. 816.
Coats and suits, Misses'. Schulman & Hauptman. No. 132,515; June 22; v. 275; p. 822.
Cocoa and chocolate. The Stollwerck Chocolate Company. Nos. 132,545–6; June 22; v. 275; p. 823.
Coffee. J. Aron & Company. No. 132,289; June 22; v. 275; p. 815.
Compounds for treating certain named diseases and affections. The Owl Drug Company. No. 132,476; June 22; v. 275; p. 821.
Compound for use in treating disorders of the stomach, liver, and bowels. J. H. Snyder Med. Co. No. 132,334; June 22; v. 275; p. 823.
Conveying machinery, Idlers and rolls for. Link-Belt Company. No. 132,438; June 22; v. 275; p. 820.
Corsets, brassières, &c. Ivy Corset Company. No. 132,420; June 22; v. 275; p. 819.
Corsets, corsettes, corsetettes, and brassières. John Wanamaker, New York. No. 132,581; June 22; v. 275; p. 824.
Cotton piece goods. Chuck, Davis & Co. No. 132,337; June 22; v. 275; p. 817.
Cotton piece goods. E. Gutman & Co. No. 132,401; June 22; v. 275; p. 818.
Cotton, woolen, and silk goods, and ribbons in the piece. Hughes & Company. (Export Corporation.) No. 132,414; June 22; v. 275; p. 819.
Cream for the skin. Queisser & Co. No. 132,494; June 22; v. 275; p. 822.
Cream-of-tartar compound. Caverly-Plumer Company. No. 132,328; June 22; v. 275; p. 816.
Creams and paste for the teeth. Queisser & Co. No. 132,493; June 22; v. 275; p. 822.
Creams, hair-tonics, and shampoos, Cold-. W. Kahn. No. 132,426; June 22; v. 275; p. 819.
Dentifrice. J. E. Hawley. No. 132,409; June 22; v. 275; p. 819.
Deodorant. V. Vivaudou. No. 132,571; June 22; v. 275; p. 824.
Deodorant and antiseptic powders. Miami Chemical Co. No. 132,459; June 22; v. 275; p. 820.
Depilatories. Oneida Corporation. No. 132,471; June 22; v. 275; p. 821.
Digestants and medicinal preparations for dyspepsia, &c. Bristol-Myers Company. No. 132,308; June 22; v. 275; p. 816.
Drink, Soft. F. & M. Schaefer Brewing Co. No. 132,513; June 22; v. 275; p. 822.
Dye and dressing, Auto-top. The Waterproofings Manufacturing Co. No. 132,582; June 22; v. 275; p. 825.
Dyes combined with soap. Sunbeam Chemical Company. Nos. 132,553–6; June 22; v. 275; p. 824.
Eggs. Kendal & Slusser. No. 132,428; June 22; v. 275; p. 819.
Feed for calves and pigs, Mixed grain. Hales & Edwards Company. No. 132,402; June 22; v. 275; p. 819.
Filling and structural material, Heat-insulating, &c. Celite Products Company. No. 132,324; June 22; v. 275; p. 816.
Filling and structural material. Celite Products Company. Nos. 132,325–6; June 22; v. 275; p. 816.
Fire-engines, water-towers, &c. American La France Fire Engine Co. No. 132,284; June 22; v. 275; p. 815.
Fire-extinguishing compound, Chemical. Carbona Products Company. No. 132,320; June 22; v. 275; p. 816.
Flavoring extracts used in the making of non-alcoholic, &c., beverages. The C. F. Sauer Company. No. 132,509; June 22; v. 275; p. 822.
Floor-finish. B. L. Webb. No. 132,583; June 22; v. 275; p. 825.
Food for hogs, Mixed. Park & Pollard Company. No. 132,479; June 22; v. 275; p. 821.
Foods and ingredients of foods. Julius Wile Sons & Co. No. 132,590; June 22; v. 275; p. 825.
Foods and ingredients of foods. Walker-Matteson Company. No. 132,578; June 22; v. 275; p. 824.
Foods and ingredients of foods. Y. Hattori. No. 132,407; June 22; v. 275; p. 819.
Forgings, Steel. Sizer Forge Company. No. 132,530; June 22; v. 275; p. 823.
Furniture, &c., polish. Nu-Ray Polish Manufacturing Co. No. 132,467; June 22; v. 275; p. 821.
Games, toys, and sporting goods. I. Fuld. No. 132,378; June 22; v. 275; p. 818.
Gargle, Antiseptic and anesthetic. V. P. Rupe. No. 132,507; June 22; v. 275; p. 822.
Germicide deodorizing and disinfectant dentifrice preparation. Southern Chemical Products Co. No. 132,338; June 22; v. 275; p. 823.
Glass and artistic glassware, Cut. Corning Glass Works. Nos. 132,339–40; June 22; v. 275; p. 817.
Gloves, Leather and fabric. Langenberg Hat Company. No. 132,435; June 22; v. 275; p. 820.
Glues or adhesives, Casein. The Casein Manufacturing Company. No. 132,322; June 22; v. 275; p. 816.
Grease-cups. Lunkenheimer Company. Nos. 132,443–4; June 22; v. 275; p. 820.
Hair, Coloring for the. J. Goldman. No. 132,390; June 22; v. 275; p. 818.
Hair-coloring for the beard and hair. Panafieu Pere et Fils. No. 132,371; June 22; v. 275; p. 818.
Hair-dressing. A. Plough. No. 132,483; June 22; v. 275; p. 821.
Hair-tonic. E. J. Phinizee. No. 132,486; June 22; v. 275; p. 821.
Hair-tonic. M. Thompson. No. 132,563; June 22; v. 275; p. 824.
Hair-tonic. S. S. Winfield. No. 132,596; June 22; v. 275; p. 825.
Hair-tonic and hair-growing preparation. V. Dell. No. 132,353; June 22; v. 275; p. 817.
Hair-tonic, dandruff eradicator, and complexion-cream. A. R. Smith. No. 132,532; June 22; v. 275; p. 823.
Hair-restorer. M. Braunberg. No. 132,306; June 22; v. 275; p. 816.
Hair-shampoo. The Edison Laboratories. No. 132,366; June 22; v. 275; p. 817.
Hat-bleaching compound. E. Stratigos. No. 132,549; June 22; v. 275; p. 823.
Hats and caps, for men, women, and children, Oil. A. J. Tower Company. No. 132,564; June 22; v. 275; p. 824.
Hats, Ladies'. C. Roth. No. 132,506; June 22; v. 275; p. 822.
Hats, Ladies'. Gage Brothers & Company. No. 132,380; June 22; v. 275; p. 818.
Herbaceous mixtures for treating asthma, &c. F. T. Stone. No. 132,547; June 22; v. 275; p. 823.
Hosiery. Chipman Knitting Mills. Nos. 132,331–5; June 22; v. 275; p. 816.
Hosiery. James H. Dunham & Co. No. 132,361; June 22; v. 275; p. 817.
Hosiery, Orange Hosiery Mills. No. 132,473; June 22; v. 275; p. 821.
Insecticide. General Chemical Company. No. 132,383; June 22; v. 275; p. 818.
Insecticide, Liquid. Gets 'Em Co. No. 132,384; June 22; v. 275; p. 818.
Insecticides. Number 13 Chemical Co. No. 132,469; June 22; v. 275; p. 821.
Insecticides. Shoemaker & Busch. No. 132,524; June 22; v. 275; p. 823.
Jacks, Lifting-. Templeton, Kenly & Co. No. 132,560; June 22; v. 275; p. 824.
Jewelry and precious-metal ware. Laubheim Bros. No. 132,436; June 22; v. 275; p. 820.
Kid, Glazed. Henwood & Nowak. No. 132,410; June 22; v. 275; p. 819.
Lacquer for furniture, &c. C. A. Willey Company. No. 132,593; June 22; v. 275; p. 825.
Lacquers. E. I. du Pont de Nemours & Company. No. 132,367; June 22; v. 275; p. 817.
Laxative. Granolax Company. No. 132,394; June 22; v. 275; p. 818.
Laxative tablet. L. H. Pockman. No. 132,488; June 22; v. 275; p. 821.
Leather blackings and dressing. G. H. Capen. No. 132,319; June 22; v. 275; p. 816.
Liniment for certain named ailments. R. C. Scafe. No. 132,512; June 22; v. 275; p. 822.
Liniment for swollen joints, rheumatism, headache, &c. N. G. Johnson. No. 132,425; June 22; v. 275; p. 818.
Liniment, Medicinal oil-. M. M. Wolff. No. 132,598; June 22; v. 275; p. 825.
Lotion, Skin-. N. Erber. No. 132,368; June 22; v. 275; p. 818.

Lotions, cold-creams, ointments. J. W. Wilder. No. 132,588; June 22; v. 275; p. 825.
Lubricators, Force-feed. Smith & Egge Manufacturing Company. No. 132,533; June 22; v. 275; p. 823.
Luminous material, Self-. Radium Luminous Material Corporation. No. 132,495; June 22; v. 275; p. 822.
Machinery and tools. Fulton Tool Works. No. 132,379; June 22; v. 275; p. 818.
Measuring and scientific appliances. Allied Machinery Company of America. No. 132,280; June 22; v. 275; p. 815.
Medicated inhalant, a nerve and blood tonic, &c. V. Benedix. No. 132,299; June 22; v. 275; p. 815.
Medicine against lumbago, kidney trouble, and rheumatism. J. M. Wackrow. No. 132,572; June 22; v. 275; p. 824.
Medicine. A. L. Reusing. No. 132,560; June 22; v. 275; p. 822.
Medicine for certain named ailments. The Sentanel Remedies Company. No. 132,521; June 22; v. 275; p. 823.
Medicine for cramp, diarrhea, &c. Alpern and Blachschlager Chemical Company. No. 132,281; June 22; v. 275; p. 815.
Medicine for diseases of the eye. L. Cacciatore. No. 132,317; June 22; v. 275; p. 816.
Medicine for eczema. C. E. Swaisland. No. 132,558; June 22; v. 275; p. 824.
Medicine for use in the treatment of certain named diseases and affections. J. L. Herpich. No. 132,411; June 22; v. 275; p. 819.
Medicine for use in the treatment of tuberculosis. R. J. K. Gore. No. 132,392; June 22; v. 275; p. 818.
Medicine for live stock. Sipe Conditioner Mfg. Co. No. 132,529; June 22; v. 275; p. 823.
Medicine for the liver and kidneys. C. D. Stowe. No. 132,548; June 22; v. 275; p. 823.
Medicines for the treatment of certain named diseases and affections. Humphreys Homeopathic Medicine Co. Nos. 132,415–6; June 22; v. 275; p. 819.
Medicinal compound for the treatment of colds, grippe, &c. E. V. Harrison. No. 132,405; June 22; v. 275; p. 819.
Medicinal compound for external treatment of hay-fever. Schieffelin & Co. No. 132,514; June 22; v. 275; p. 822.
Medicinal preparation. J. E. Jameson. No. 132,421; June 22; v. 275; p. 819.
Medicinal preparations for certain skin disorders and as a blood-purifier. McKesson & Robbins. No. 132,449; June 22; v. 275; p. 820.
Medicinal preparation for diseases of the stomach, liver, &c. H. L. Hicks. No. 132,412; June 22; v. 275; p. 819.
Medicinal preparations for external use for the treatment of rheumatism, sprains, &c. McKesson & Robbins. No. 132,446; June 22; v. 275; p. 820.
Medicinal preparations for external use in skin diseases, &c. McKesson & Robbins. No. 132,445; June 22; v. 275; p. 820.
Medicinal preparations for germicidal purposes, &c. McKesson & Robbins. No. 132,447; June 22; v. 275; p. 820.
Medicinal tonic, Reconstructive. Reliable Chemical Co. No. 132,499; June 22; v. 275; p. 822.
Medicinal preparation used as a dentifrice. Brown's Tooth Powder Company. No. 132,309; June 22; v. 275; p. 816.
Moisteners for gummed surfaces, Sanitary. Senghusch Self-closing Inkstand Company. No. 132,520; June 22; v. 275; p. 823.
Music and music publications, Sheet-. D. E. Williams. No. 132,594; June 22; v. 275; p. 825.
Nerve and bone liniment, &c. C. E. Weber. No. 134,584; June 22; v. 275; p. 825.
Notions. Waldes & Co. No. 132,576; June 22; v. 275; p. 824.
Nuts, bolts, screws, and rivets. Upson Nut Company. No. 132,569; June 22; v. 275; p. 824.
Oil and nail-polishes, Manicuring-. E. Burnham. No. 132,310; June 22; v. 275; p. 816.
Oil, Cod-liver. Scott & Bowne. No. 132,517; June 22; v. 275; p. 822.
Oil-cups. Lunkenheimer Company. No. 132,442; June 22; v. 275; p. 820.
Oil, Lubricating-. Sonard Green Lubricating Company. No. 132,536; June 22; v. 275; p. 823.
Oil, Paint-. Para-Crude Oil Corp. No. 132,478; June 22; v. 275; p. 821.
Oils and greases, Lubricating-. Dearborn Chemical Company. No. 132,350; June 22; v. 275; p. 817.
Ointment and preparation for the treatment of rheumatism, colds, &c. Zarbeum Chemical Co. No. 132,600; June 22; v. 275; p. 825.
Ointment, Witch-hazel. Humphreys Homeopathic Medicine Co. No. 132,417; June 22; v. 275; p. 819.
Ointments, petroleum jelly, and refined lanolin. Atriken Chemical Works. No. 132,292; June 22; v. 275; p. 815.
Oleomargarin. Nut Grove Butter Company. No. 132,468; June 22; v. 275; p. 821.
Orange-juice. E. C. McManus. No. 132,450; June 22; v. 275; p. 820.
Overalls. Carson Pirie, Scott & Co. No. 132,321; June 22; v. 275; p. 816.
Overalls. Union Joe Overall Co. No. 132,567; June 22; v. 275; p. 824.
Overalls, coats, pants, &c. Pyramid Clothing Manufacturing Company. No. 132,492; June 22; v. 275; p. 822.
Overalls, play-suits, waists, &c., Boys'. H. Ostrowsky Co. No. 132,475; June 22; v. 275; p. 821.
Paint, Oil. Fort Wayne Drug Company. No. 132,374; June 22; v. 275; p. 818.
Paints, Roofing and metal. Philip Carey Manufacturing Company. No. 132,481; June 22; v. 275; p. 821.
Paper, Reinforced. J. A. Greenlee. No. 132,398; June 22; v. 275; p. 818.
Paper, Writing-. Whiting Paper Company. No. 132,586; June 22; v. 275; p. 825.
Paste paints and varnishes. Beaver Varnish Company. No. 132,296; June 22; v. 275; p. 815.
Pearls and beads and necklaces, Synthetic. Gimbel Bros. No. 132,388; June 22; v. 275; p. 818.
Perfume, toilet water, rouge, and face-powder. E. Burnham. No. 132,311; June 22; v. 275; p. 816.
Perspiration-counteractor. R. W. Bridgman. No. 132,307; June 22; v. 275; p. 816.
Petrolatums, White. Atlantic Refining Company. No. 132,291; June 22; v. 275; p. 815.
Petticoats, dress-skirts, and underskirts. M. Reiss & Son. No. 132,498; June 22; v. 275; p. 822.
Pharmaceutical preparations. The Pompeian Mfg. Co. No. 132,490; June 22; v. 275; p. 821.
Phonograph-record cleaner and polisher. N. C. Davis. No. 132,348; June 22; v. 275; p. 817.
Photographic film. Eastman-Kodak Company. No. 132,364; June 22; v. 275; p. 817.
Pianos and music-sheets therefor, talking-machines, phonographs, Player-. Crippen Company, The. No. 132,342; June 22; v. 275; p. 817.
Pictures to be projected upon a screen, &c. Post Pictures Corporation. No. 132,491; June 22; v. 275; p. 822.
Platens, Preparation to preserve and renew. Peter-Sol Sales Company. No. 132,357; June 22; v. 275; p. 817.
Poles, Wooden telegraph, &c. W. H. Gilbert. No. 132,386; June 22; v. 275; p. 818.
Polish for pianos, furniture, talking-machines, &c. J. Strauss. No. 132,550; June 22; v. 275; p. 823.
Polish for varnished and enameled surfaces. Cullen-Stevens Co. No. 132,346; June 22; v. 275; p. 817.
Pomade for the scalp and hair. Jiffie-Straight Company. No. 132,422; June 22; v. 275; p. 819.
Powder and cream, toilet water, &c., Complexion. Depree Chemical Company. No. 132,356; June 22; v. 275; p. 817.
Powder, Baby-. Chas. Ammen Co. No. 132,286; June 22; v. 275; p. 815.
Powder-puffs. C. & K. Mfg. Co. No. 132,316; June 22; v. 275; p. 816.
Powders, Toilet. George Borgfeldt & Co. No. 132,302; June 22; v. 275; p. 815.
Preparations for repelling mosquitos and healing their bites. McKesson & Robbins. No. 132,448; June 22; v. 275; p. 820.
Preparation for treatment of certain named diseases and affections, Tonic. P. D. Phillips. No. 132,482; June 22; v. 275; p. 821.
Preparation for the treatment of certain named diseases and affections. G. J. Horning. No. 132,413; June 22; v. 275; p. 819.
Preparation for the treafment of la grippe, colds, and muscular pains. H. C. Wurm. No. 132,599; June 22; v. 275; p. 825.
Preparation for use in the prevention and treatment of infectious diseases. G. Klemperer. No. 132,432; June 22; v. 275; p. 820.
Preparation to be administered internally to horses and other live stock for scratches, &c. Kewley Bros. No. 132,429; June 22; v. 275; p. 819.
Preparation used as a deodorant and relief for excessive perspiration. R. C. Lawry. No. 132,505; June 22; v. 275; p. 822.
Preparations for the relief of la grippe. Vancouver Drug Company. No. 132,570; June 22; v. 275; p. 824.
Preparations for treatment of eczema, &c. U. G. McClure. No. 132,575; June 22; v. 275; p. 824.
Razor-strops. Gifford-Wolfenbach Company. No. 132,387; June 22; v. 275; p. 818.
Reamers, metal-cutting drills, &c. Chrobaltic Tool Company. No. 132,336; June 22; v. 275; p. 817.
Remedy and tonic, Malarial. Burwell & Dunn Co. No. 132,313; June 22; v. 275; p. 816.
Remedy for certain named ailments, and toilet preparations. Omega Chemical Company. No. 132,470; June 22; v. 275; p. 821.
Remedy for pyorrhea. N. Farmakis. No. 132,369; June 22; v. 275; p. 818.
Remedy, Pile. O. Wingate. No. 132,597; June 22; v. 275; p. 825.
Ribbons in the piece. Johnson, Cowdin and Co. No. 132,423; June 22; v. 275; p. 819.
Rubber and rubber-composition heels. Panther Rubber Manufacturing Company. No. 132,477; June 22; v. 275; p. 821.
Rubber heels for boots and shoes. Plymouth Rubber Company. No. 132,487; June 22; v. 275; p. 821.
Rubber soles and heels. Foster Rubber Company. No. 132,375; June 22; v. 275; p. 818.
Sal-ammoniac and soldering fluid. Special Chemicals Company. No. 132,539; June 22; v. 275; p. 823.
Salve for treatment of certain named diseases and affections. E. J. Albrecht. No. 132,279; June 22; v. 275; p. 815.

Salve, Menthol. Davis & Lawrence Company. No. 132,347; June 22; v. 275; p. 817.
Salve used in the treatment of burns, boils, &c. J. F. Tete. No. 132,561; June 22; v. 275; p. 824.
Sardines. Globe Canning Co. No. 132,389; June 22; v. 275; p. 818.
Saws. Simonds Manufacturing Company. No. 132,528; June 22; v. 275; p. 823.
Seeds. C. S. Osburn & Co. No. 132,474; June 22; v. 275; p. 821.
Shears or scissors, Electric. Sperry Gyroscope Company. No. 132,540; June 22; v. 275; p. 823.
Sheeting. Bencee Importing and Exporting Co. No. 132,298; June 22; v. 275; p. 815.
Shirts and overalls; Work-. Industrial Garment Co. No. 132,419; June 22; v. 275; p. 819.
Shirts and pajamas, Men's negligée. Star Shirt Manufacturing Company. No. 132,543; June 22; v. 275; p. 823.
Shirts, Dress, negligée, and work. Waltham Shirt Co. No. 132,580; June 22; v. 275; p. 824.
Shoes. E. C. Skuffer Shoe Co. No. 132,531; June 22; v. 275; p. 823.
Shoes, Canvas outing-. Apsley Rubber Company. No. 132,287; June 22; v. 275; p. 815.
Shoes, Leather and fabric. L. Wiesner. No. 132,587; June 22; v. 275; p. 825.
Shoes, Orthopedic, &c. Podiatry Shoe Company. No. 132,489; June 22; v. 275; p. 821.
Silk and silk-mixture fabrics. Cheney Brothers. No. 132,329; June 22; v. 275; p. 816.
Silk fabric and ribbons in the piece. Hanselmann-Johnson Company. No. 132,404; June 22; v. 275; p. 819.
Skin-emollient. L. Friend. No. 132,377; June 22; v. 275; p. 818.
Skins, Chamois-. A. Hart. No. 132,406; June 22; v. 275; p. 819.
Soap. James S. Kirk & Company. No. 132,430; June 22; v. 275; p. 820.
Soap. Louisville Food Products Company. No. 132,440; June 22; v. 275; p. 820.
Soap, Skin-. Lamar, Taylor & Riley Drug Co. No. 132,434; June 22; v. 275; p. 820.
Solder. W. A. Day. No. 132,349; June 22; v. 275; p. 817.
Spectacles and eyeglasses, Frames of. Bay State Optical Company. No. 132,294; June 22; v. 275; p. 815.
Steel and iron, Structural. New England Structural Company. No. 132,464; June 22; v. 275; p. 821.
Steel bars, rods, billets, &c. Crucible Steel Company of America. No. 132,345; June 22; v. 275; p. 817.
Sugar tablets and lozenges. American Confectionery Syndicate. No. 132,283; June 22; v. 275; p. 815.
Suits and coats for women. Bernstein, Baum, Da Costa Company. No. 132,301; June 22; v. 275; p. 815.
Suits, Boys'. L. Straus. No. 132,551; June 22; v. 275; p. 824.
Suits, coats, and pants. American Novelty-Wash Suit Co. No. 132,285; June 22; v. 275; p. 815.
Suits, overcoats, coats, vests, and trousers, Men's and boys'. Siff Bros. Co. No. 132,525; June 22; v. 275; p. 823.
Surgical dressing, Plastic. Saxo Chemical Co. No. 132,510; June 22; v. 275; p. 822.
Switch for ignition systems, Electrical testing. Scott Corporation. No. 132,518; June 22; v. 275; p. 822.
Syrup, Malt. C. T. Zirkle. No. 132,601; June 22; v. 275; p. 825.
Syrup, Orange table-. Southern California Products Company. No. 132,537; June 22; v. 275; p. 823.
Syrup used as a flavor for a soft drink, Concentrated. Mickey Company. No. 132,460; June 22; v. 275; p. 821.
Tackle and pulley blocks. Marine Decking & Supply Co. No. 132,454; June 22; v. 275; p. 820.
Tablets, Medicated. C. S. Mills. No. 132,461; June 22; v. 275; p. 821.
Tablets, Medicinal. The Maltble Chemical Company. No. 132,452; June 22; v. 275; p. 820.
Tablets, Memorandum. R. J. Bell. No. 132,297; June 22; v. 275; p. 815.
Tea. Great Atlantic & Pacific Tea Company. No. 132,396; June 22; v. 275; p. 818.
Teas and coffees. F. C. Tripi & Co. No. 132,565; June 22; v. 275; p. 824.
Telegraph-keys, Practice. D. G. White. No. 132,585; June 22; v. 275; p. 825.
Tires, Rubber. Majestic Tire & Rubber Co. No. 132,451; June 22; v. 275; p. 820.
Toilet preparations. Leon Gawurin. Nos. 132,381–2; June 22; v. 275; p. 818.
Toilet preparations. Talcum Puff Company. No. 132,559; June 22; v. 275; p. 824.
Tonic and an antiseptic powder, Liquid. C. R. Spicer. No. 132,541; June 22; v. 275; p. 823.
Tonic and blood medicine. Parzon Pharmacal Company. No. 132,480; June 22; v. 275; p. 821.
Tonic compound, Liquid heart-. William S. Merrell Company. No. 132,458; June 22; v. 275; p. 820.
Tonic laxative for constipation, headache, &c. J. W. Duffee Mfg. Co. No. 132,360; June 22; v. 275; p. 817.
Tonic, Reconstructive. Bosak Manufacturing Co. Nos. 132,303–5; June 22; v. 275; pp. 815–16.
Tooth-paste. A. H. de Goenaga. No. 132,351; June 22; v. 275; p. 817.
Tooth-powders, pastes, and mouth-washes. J. N. Thibodeaux. No. 132,562; June 22; v. 275; p. 824.
Tractors designed for use in hauling agricultural implements, &c. Samson Tractor Company. No. 132,508; June 22; v. 275; p. 822.
Tractors, Farm-. Martin Scott Engineering Co. No. 132,456; June 22; v. 275; p. 820.
Trousers. Standard Manufacturing Company. No. 132,542; June 22; v. 275; p. 823.
Turpentine. A/S Det Almindelige Handelskompagni. No. 132,403; June 22; v. 275; p. 819.
Underwear for men. H. B. Ferguson. No. 132,370; June 22; v. 275; p. 818.
Underwear, Ladies' flat. F. Newmark. No. 132,465. June 22; v. 275; p. 821.
Valves, Beverage-dispensing. C. M. Earl. No. 132,363; June 22; v. 275; p. 817.
Waists, and collars, Ladies'. J. & M. Cohn, Inc. No. 132,338; June 22; v. 275; p. 817.
Washing compound. H. W. Arnor. No. 132,288; June 22; v. 275; p. 815.
Washing compound. P. W. Drackett and Sons Company. No. 132,359; June 22; v. 275; p. 817.
Waterproof goods. Union City Manufacturing Co. No. 132,566; June 22; v. 275; p. 824.
Waterproofed textile fabric. Duratex Company. No. 132,362; June 22; v. 275; p. 817.
Wax-polish. Marshall Oil Company. No. 132,455; June 22; v. 275; p. 820.
Worm-expeller, horse, cattle, and hog tonics, and hog-dip. H. B. Bernard. No. 132,300; June 22; v. 275; p. 815.
Worm and insect exterminator. W. Kea. No. 132,427; June 22; v. 275; p. 819.
Wrenches. C. E. Wakefield. No. 135,574; June 22; v. 275; p. 824.

ALPHABETICAL LIST OF LABELS.

"GenCo Cola." (For a Non-Alcoholic Beverage.) General Fruit & Syrup Co. No. 21,875; June 22; v. 275; p. 826.

"The Famous Shenandoah Valley Brand." (For Pork Sausage.) H. L. Bushong. No. 21,874; June 22; v. 275; p. 826.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Alkaline antiseptic, germicide, &c., preparation. R. M. Seibel. No. 125,407; June 22; v. 275; p. 792.
Alloys, Non-ferrous. United American Metals Corporation. No. 130,996; June 22; v. 275; p. 807.
Anesthetics, Local. J. A. Klein. No. 128,213; June 22; v. 275; p. 799.
Automobile accessories—viz., spark-plugs. Taylor Brothers. No. 130,301; June 22; v. 275; p. 805.
Automobile-radiators, Temperature-indicators for. L. V. Arouson. No. 130,944; June 22; v. 275; p. 807.
Balancing-machines, Dynamic. Crawford Tool and Manufacturing Co. No. 117,439; June 22; v. 275; p. 785.
Batteries, lamps, &c., for automobiles, Electric. Vesta Battery Corporation. No. 131,051; June 22; v. 275; p. 807.
Beef, mutton, lamb, veal, Chilled fresh. J. A. Linley. No. 116,926; June 22; v. 275; p. 785.
Beer, Lager-. Adam Scheidt Brewing Company. No. 125,978; June 22; v. 275; p. 792.
Belting, Leather. Hudson Belting Company. No. 128,506; June 22; v. 275; p. 800.
Beverage, Cereal non-intoxicating. Harvard Company. No. 130,999; June 22; v. 275; p. 804.
Beverage, Non-alcoholic malt. J. E. Malkin. No. 127,969; June 22; v. 275; p. 797.
Beverages, Non-alcoholic. L. Schacht. No. 125,805; June 22; v. 275; p. 792.
Beverages, Non-alcoholic soft-drink. C. A. Federer. No. 127,544; June 22; v. 275; p. 795.
Blankets, Woolen. L. Frank. No. 128,000; June 22; v. 275; p. 798.
Blowpipes, regulators, tips, and nozzles for blowpipes. Oxweld Acetylene Company. No. 128,106; June 22; v. 275; p. 798.
Boots and shoes. Thomas Brown & Co. (Leicester). No. 131,250; June 22; v. 275; p. 809.
Boots, shoes, and slippers, Ladies'. Thomas Brown & Co. (Leicester). No. 131,255; June 22; v. 275; p. 809.
Bornx. American Troua Corporation. No. 127,459; June 22; v. 275; p. 794.
Bread. The Dearborn Baking Co. No. 128,086; June 22; v. 275; p. 798.
Bread and rolls. Hazleton Baking Co. No. 130,909; June 22; v. 275; p. 807.
Brisling and sild (sardines). The Oversea Export Co. Nos. 129,656–7; June 22; v. 275; pp. 802–3.
Brisling and sild (sardines). The Oversea Export Co. 129,662; June 22; v. 275; p. 803.
Brisling and sild (sardines). The Oversea Export Co. No. 129,672; June 22; v. 275; p. 803.
Brushes, Hair-. Florence Manufacturing Company. No. 117,159; June 22; v. 275; p. 785.
Buttons, Pearl. George Borgfeldt & Co. No. 131,695; June 22; v. 275; p. 811.
Candles. The Brecht Candy Co. No. 122,757; June 22; v. 275; p. 788.
Candy. Alfred S. Amer & Company. No. 131,938; June 22; v. 275; p. 812.
Candy. Carlisle Bros. No. 130,800; June 22; v. 275; p. 806.
Candy. The Euclid Candy Company. No. 130,953; June 22; v. 275; p. 807.
Candy. The Euclid Candy Company. Nos. 130,956–7; June 22; v. 275; p. 807.
Candy and candy confections, Boxed, &c. Universal Candy Company. No. 118,576; June 22; v. 275; p. 786.
Candy, Chocolate. Carlisle Bros. No. 130,799; June 22; v. 275; p. 806.
Cane, parasol, and umbrella handles. F. Lauter. No. 131,808; June 22; v. 275; p. 812.
Canned fish. Standard Canning Co. No. 131,356; June 22; v. 275; p. 810.
Canned fruit and vegetables. Beterpack Canning Company. No. 131,302; June 22; v. 275; p. 809.
Canned fruits. Western Canning Company. Nos. 124,028–9; June 22; v. 275; p. 790.
Canned fruits and vegetables. Bay Side Canning Co. No. 128,819; June 22; v. 275; p. 800.
Canned fruits and vegetables. Fillce & Perrell Canning Co. No. 131,318; June 22; v. 275; p. 810.
Canned fruits and vegetables. San Leandro Canning Co. No. 131,360; June 22; v. 275; p. 810.
Canned fruits and vegetales. The Springville Canning Co. No. 131,833; June 22; v. 275; p. 812.
Canned fruits and vegetables. Western Cannings Company. No. 124,033; June 22; v. 275; p. 790.
Canned goods, coffee, tea, &c. D. P. Stores Company. No. 124,671; June 22; v. 275; p. 791.
Canned milk. Overseas Products Corporation. No. 126,743; June 22; v. 275; p. 793.
Canned sardines. Seacoast Canning Co. No. 127,779; June 22; v. 275; p. 796.
Canned vegetables and fruits. Frank Canning Co. No. 128,754; June 22; v. 275; p. 800.
Caps and hats. Capitol Cap Company. No. 130,087; June 22; v. 275; p. 804.
Carbon-remover for gas-engine cylinders. Reilly-Snyder Manf'g Co. No. 132,260; June 22; v. 275; p. 789.
Carbon-remover for internal-combustion engines. Carb-Out Laboratories Company. No. 127,714; June 22; v. 275; p. 795.
Cars, Tank-. General American Tank Car Corporation. No. 131,109; June 22; v. 275; p. 808.
Cheese and dried sausages. The Basso Co. No. 129,922; June 22; v. 275; p. 803.
Chemicals, medicines, &c. Nulyne Laboratories. No. 124,865; June 22; v. 275; p. 791.
Chemicals, medicines, &c. Philip A. Hunt Company. No. 124,402; June 22; v. 275; p. 790.
Chocolates. Bertin & Stimson. No. 128,040; June 22; v. 275; p. 798.
Circuit-controllers, Automatic. Clox-Lite Mfg. Company. No. 131,209; June 22; v. 275; p. 809.
Clam broth, tomato soup, chicken gumbo, &c. Keystone Instant Food Company. No. 130,423; June 22; v. 275; p. 805.
Cleaner and polish and radiator-cleaner, Silver. A. J. Ruttenber. No. 122,915; June 22; v. 275; p. 788.
Cleaners, Electric vacuum-. Eureka Vacuum Cleaner Company. No. 130,885; June 22; v. 275; p. 807.
Closers for bottles. The Sampson Appliance Corporation. No. 131,236; June 22; v. 275; p. 809.
Clothing, Ladies'. Lady Fair Gown Co. No. 128,784; June 22; v. 275; p. 800.
Clothing, Work-. William M. Finck & Company. No. 129,973; June 22; v. 275; p. 803.
Coats, suits, skirts, &c., Ladies', misses', and juniors'. L. E. Rosenfeld & Co. No. 129,572; June 22; v. 275; p. 802.
Cocoa and cereal beverages. S. W. Steads. No. 104,367; June 22; v. 275; p. 783.
Coffee. P. W. Browning. No. 130,643; June 22; v. 275; p. 806.
Copper, Electrolytic. Nichols Copper Co. No. 131,085; June 22; v. 275; p. 808.
Cornmeal. Valdosta Mill & Elevator Co. No. 132,961; June 22; v. 275; p. 814.
Cotton cloth in the piece. Trippe, Barker & Co. No. 131,133; June 22; v. 275; p. 808.
Cotton cloths in the piece. Sylvester & Levy. No. 130,776; June 22; v. 275; p. 806.
Cotton piece goods. Eugene Gutman & Co. No. 126,179; June 22; v. 275; p. 792.
Cotton piece goods. Naday & Fleischer. No. 132,260; June 22; v. 275; p. 813.
Cotton piece goods—viz., voile. Warner-Godfrey Co. No. 129,765; June 22; v. 275; p. 803.
Cotton Skirtings in the piece. Trippe, Barker & Co. No. 131,136; June 22; v. 275; p. 808.
Creams, toilet powders, rouge, cough medicine, &c., Skin-. Frederick F. Ingram Company. No. 127,511; June 22; v. 275; p. 795.
Cups, saucers, plates, food-dishes, China. The Limoges China Company. No. 114,042; June 22; v. 275; p. 784.
Dental cream. J. MacDonald. No. 123,442; June 22; v. 275; p. 789.
Diamonds, jewelry, &c. Square Deal Miller, Inc. No. 121,425; June 22; v. 275; p. 788.
Diapers. Sears, Roebuck and Co. No. 128,115; June 22; v. 275; p. 798.
Drills, Steel globules used as the cutting medium with core-. Ingersoll-Rand Company. No. 132,100; June 22; v. 275; p. 812.
Dye, Hat-. Aladdin Products Company. No. 127,847; June 22; v. 275; p. 796.
Electrical fittings. The Sun Electrical Company. No. 121,547; June 22; v. 275; p. 788.
Engines, Non-freezing solution for internal-combustion. New York Industrial Alcohol Company. No. 125,337; June 22; v. 275; p. 792.
Fabrics in the piece, Pile. The Salt's Textile Manufacturing Company. No. 132,121; June 22; v. 275; p. 812.
Fabrics in the piece, Pile. The Salt's Textile Manufacturing Company. No. 132,125; June 22; v. 275; p. 812.
Fiber-board and corrugated fiber shipping-containers. Mengel Box Company. No. 129,241; June 22; v. 275; p. 801.
File perforators or punches. Paragon Binder Corporation. No. 107,480; June 22; v. 275; p. 783.

Flavoring compounds for foods. The Synvita Products Company. No. 130,297; June 22; v. 275; p. 805.
Flour, Wheat-. Canadian-American Cereal Products Co. Nos. 132,721–2; June 22; v. 275; p. 813.
Flour, Wheat-. Canadian-American Cereal Products Co. Nos. 132,724–5; June 22; v. 275; p. 814.
Flour, Wheat-. Canadian-American Cereal Products Corporation. No 132,727; June 22; v. 275; p. 814.
Flour, Wheat-. Cannon Valley Milling Company. No. 132,729; June 22; v. 275; p. 814.
Flour, Wheat-. Cannon Valley Milling Company. No. 132,731; June 22; v. 275; p. 814.
Flour, Wheat-. Cannon Valley Milling Company. No. 132,733; June 22; v. 275; p. 814.
Flour, Wheat-. Cannon Valley Milling Company. No. 132,850; June 22; v. 275; p. 814.
Flour, Wheat-. Holt & Company. No. 132,388; June 22; v. 275; p. 813.
Forgings, Drop-. Washington Steel and Ordnance Company. No. 132,496; June 22; v. 275; p. 813.
Foundry supplies, molding-machines and parts thereof. The Cleveland Osborn Manufacturing Company. No. 117,558; June 22; v. 275; p. 785.
Frocks and rompers, Children's. Phorylles & Sperber. No. 130,058; June 22; v. 275; p. 804.
Fruit and peanut butters, jams, jellies. The Buckeye Producing Co. No. 130,019; June 22; v. 275; p. 804.
Fruit, Fresh citrus. W. E. Lee. No. 129,068; June 22; v. 275; p. 801.
Fruits, Fresh. W. E. Lee. Nos. 129,066–7; June 22; v. 275; p. 801.
Fuel-saving attachments secured to heaters, Metallic. United States Fuel-Saving Equipments Corporation. No. 121,368; June 22; v. 275; p. 788.
Germicide. Nodol Medicine Co. No. 127,392; June 22; v. 275; p. 794.
Gingham piece goods. Marshall Field & Company. No. 131,491; June 22; v. 275; p. 810.
Gingham piece goods. Marshall Field & Company. Nos. 131,494–5; June 22; v. 275; p. 811.
Glass, Chemical preparation for matting, etching, or frosting. H. E. Davis. No. 127,962; June 22; v. 275; p. 797.
Grape-juice, Unfermented. W. Taylor. No. 130,777; June 22; v. 275; p. 806.
Grindstones, whetstones, and abrasive powder. White Heat Products Company. No. 128,378; June 22; v. 275; p. 799.
Gum, Candy-coated chewing-. Wm. Wrigley Jr. Company. No. 129,920; June 22; v. 275; p. 803.
Gum, Chewing-. The D. L. Clark Company. No. 130,881; June 22; v. 275; p. 806.
Hair-grower. T. W. Berry. No. 113,324; June 22; v. 275; p. 784.
Hair-shampoo. H. S. Peterson & Co. No. 127,832; June 22; v. 275; p. 796.
Hairpins. Dohson Novelty Company. No. 118,541; June 22; v. 275; p. 786.
Handkerchiefs. Hyman Bauman & Co. No. 128,198; June 22; v. 275; p. 799.
Hats, Men's and boys'. Anthracite Hat Co. No. 129,530; June 22; v. 275; p. 802.
Heaters, Gas and oil hot-water. Holyoke Heater Company. No. 120,667; June 22; v. 275; p. 787.
Hides and leather. Kullman, Salz & Co., No. 131,529; June 22; v. 275; p. 811.
Hosiery. Chinman Knitting Mills. No. 130,516; June 22; v. 275; p. 806.
Hosiery. United Mills Company. No. 131,364; June 22; v. 275; p. 810.
Hosiery. A. V. Victorius & Company. No. 127,408; June 22; v. 275; p. 794.
Hosiery. Joseph P. Voorhees. No. 130,999; June 22; v. 275; p. 807.
Hosiery. H. G. Wendland. No. 128,288; June 22; v. 275; p. 799.
Hosiery and women's underwear. T. J. Mulcahy. No. 131,342; June 22; v. 275; p. 810.
Hosiery for women and children. Riverside Hosiery Mills. No. 123,171; June 22; v. 275; p. 788.
Hosiery, Women's and children's. John M. Given, Inc. No. 123,804; June 22; v. 275; p. 789.
Knitted union-suits, Men's. Atwater Knitting Company. No. 127,675; June 22; v. 275; p. 795.
Knives, machetes, axes, hoes, &c., Cane, corn, and bolo. Marburg Brothers. No. 123,390; June 22; v. 275; p. 789.
Lamps, Incandescent electric. Continental Lamp Works. No. 131,779; June 22; v. 275; p. 811.
Lights, lamps, lanterns, Electric cargo-. The Burnet Company. No. 115,872; June 22; v. 275; p. 784.
Liniment, disinfectant, blood-purifier, &c. Mercer and De Velvis. No. 127,971; June 22; v. 275; p. 797.
Liniment for sprains and bruises. E. N. Harden. No. 109,715; June 22; v. 275; p. 783.
Lotion, eye-drops, worm-powder, &c., Foot-. J. L. Greenbaum. No. 127,368; June 22; v. 275; p. 794.
Magazine, Monthly. Uncle Sam Associates, Incorporated. No. 127,670; June 22; v. 275; p. 795.
Magazine, Printed monthly. Chicago Mill & Lumber Company. No. 124,680; June 22; v. 275; p. 791.
Magazines, Monthly. Pro-Distributors Publishing Company. No. 129,603; June 22; v. 275; p. 802.
Medical compound for the treatment of syphilis. J. P. Harmer. No. 124,992; June 22; v. 275; p. 792.
Medicinal preparation. N. A. Sirois. No. 128,871; June 22; v. 275; p. 800.
Medicine, Headache. Irvin & Remson. No. 127,818; June 22; v. 275; p. 796.
Medicine, Whooping-cough. P. Castelli. No. 120,446; June 22; v. 275; p. 787.
Medicines. W. T. Knight. No. 127,729; June 22; v. 275; p. 795.
Metal, metal dust or powder, Disintegrated. Metals Disintegrating Company. No. 102,989; June 22; v. 275; p. 783.
Metal-polishes. Société Anonyme Les Produits du Naol. No. 117,510; June 22; v. 275; p. 785.
Middy-blouses and dresses. Rite Mfg. Co. No. 129,606; June 22; v. 275; p. 802.
Mincing-machines. Vermorel & Rendu. No. 129,198; June 22; v. 275; p. 801.
Mouth-organs. National Harmonica Company. No. 130,333; June 22; v. 275; p. 805.
Mouth-wash, Antiseptic. E. O. Swindells. No. 127,943; June 22; v. 275; p. 797.
Music-rolls. The Globe Co. No. 124,647; June 22; v. 275; p. 791.
Music, Sheet-. B. Brown. No. 128,651; June 22; v. 275; p. 800.
Musical-instrument strings. M. E. Schoening Co. No. 130,495; June 22; v. 275; p. 806.
Nebulizers for hydrocarbon-engines. J. W. Brown. No. 126,003; June 22; v. 275; p. 792.
Necklaces, finger-rings, brooches, &c. Franklin Simon & Co. No. 128,708; June 22; v. 275; p. 800.
Newspaper-column. Mail and Express Company. No. 129,332; June 22; v. 275; p. 802.
Oats, Rolled. Haas, Baruch & Co. No. 132,530; June 22; v. 275; p. 813.
Oil-cans and oilers. National Marine Lamp Company. No. 129,075; June 22; v. 275; p. 801.
Oil, Lubricating-. Morgo Oil Co. No. 131,035; June 22; v. 275; p. 807.
Oil, Olive-. Greek and Syrian Company. No. 124,789; June 22; v. 275; p. 791.
Oils and greases, Lubricating. The Todd Oil & Paint Co. No. 130,394; June 22; v. 275; p. 805.
Oils, gear and cup greases, Lubricating-. Motor Oils, Inc. No. 129,073; June 22; v. 275; p. 801.
Ointment for improving the complexion. T. L. Hutton. No. 124,088; June 22; v. 275; p. 790.
Overalls. United States Rubber Company. No. 129,912; June 22; v. 275; p. 803.
Overalls for men and boys. Wyman Partridge & Co. No. 127,411; June 22; v. 275; p. 794.
Overalls, jumpers, pants, and jackets. M. Hoffman. No. 131,482; June 22; v. 275; p. 810.
Oxyacetylene and hydrogen welding and cutting equipment, supplies, and accessories therefor. Smith's Inventions Inc. No. 130,295; June 22; v. 275; p. 805.
Packing, Machinery. The B. F. Goodrich Company. No. 128,499; June 22; v. 275; p. 799.
Pads coated with radioactive minerals, Medicinal. The Radium Appliance Company. No. 126,592; June 22; v. 275; p. 793.
Paint, Wet mixed. Columbia Paint Co. No. 116,145; June 22; v. 275; p. 784.
Paper, Bond-. The Whitaker Paper Company. No. 121,798; June 22; v. 275; p. 788.
Paper, envelops, tablets, pencils, &c. G. E. de Vries & Co. No. 115,750; June 22; v. 275; p. 784.
Paper fabrics, Crinkled. The Otaka Fabric Company. No. 130,105; June 22; v. 275; p. 804.
Paper-pulp. The Procter and Gamble Company. No. 128,274; June 22; v. 275; p. 799.
Paper sleeve-protectors. Heco Envelope Company. No. 130,140; June 22; v. 275; p. 805.
Paper, Toilet-. The John Hoberg Co. No. 131,267; June 22; v. 275; p. 809.
Paper, Toilet-. Sauquoit Toilet Paper Company. No. 132,566; June 22; v. 275; p. 813.
Paper, Wall-. William Campbell Wall Paper Co. Nos. 132,164–5; June 22; v. 275; p. 812.
Peanut-butter, spices, canned goods, &c. G. E. Bursley & Co. No. 124,784; June 22; v. 275; p. 791.
Pearl strings, Imitation-. M. L. Ernst. No. 128,299; June 22; v. 275; p. 799.
Pencils. Joseph Dixon Crucible Company. No. 123,626; June 22; v. 275; p. 789.
Pencils and leads therefor, Lead-. Samuel Ward Manufacturing Co. No. 117,309; June 22, v. 275; p. 785.
Pencils, Lead-. American Lead Pencil Company. No. 130,501; June 22; v. 275; p. 806.
Periodical, Monthly. American Association of Engineers. No. 128,815; June 22; v. 275; p. 800.
Petticoats and bloomers, Convertible. Greenwald Brothers. No. 117,376; June 22; v. 275; p. 785.
Phonograph-records. Emerson Phonograph Company. No. 132,346; June 22; v. 275; p. 813.
Phonographs. General Manufacturing Corporation. No. 132,351; June 22; v. 275; p. 813.
Phonographs. F. P. Kibbey. No. 131,738; June 22; v. 275; p. 811.

Phonographs and records, record-albums, reproducers, and needles. The Wisconsin Chair Company. No. 131,546; June 22; v. 275; p. 811.
Piano-pedals. Lyon & Healey. No. 118,156; June 22; v. 275; p. 786.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees. No. 126,458; June 22; v. 275; p. 793.
Pianos. Lyon & Healey. No. 109,401; June 22; v. 275; p. 783.
Pills, blood and nerve-tonic, liniment, &c., Liver-. J. H. Creel. No. 127,997; June 22; v. 275; p. 797.
Piston-rings. A. L. Reifsnider. No. 127,977; June 22; v. 275; p. 797.
Plans and specifications. The H. K. Ferguson Company. No. 127,427; June 22; v. 275; p. 794.
Plastic composition for surfacing kitchen drain-boards, floors, &c. V. A. Petersen. No. 119,260; June 22; v. 275; p. 786.
Powders and rouges, Face. Northam Warren Corporation. No. 127,865; June 22; v. 275; p. 796.
Prop-brackets for supporting trees, &c., Adjustable. G. B. Gamble. No. 119,554; June 22; v. 275; p. 787.
Publication, Quarterly. The Royal Pattern Co. No. 128,326; June 22; v. 275; p. 799.
Publication, Semi-annual. Detmer Woolen Co. No. 127,426; June 22; v. 275; p. 794.
Publications, Weekly. S. G. Howell. No. 127,816; June 22; v. 275; p. 796.
Pulp-board. A. D. Gurney Company. Nos. 118,960–1; June 22; v. 275; p. 786.
Razors. Simmons Hardware Company. No. 116,619; June 22; v. 275; p. 784.
Remedy for piles and fistulas. S. P. O'Lee. No. 123,586; June 22; v. 275; p. 789.
Ribbons in the piece. R. & H. Simon Co. No. 120,264; June 22; v. 275; p. 787.
Rompers and creepers, Children's. Wyman Partridge & Co. No. 127,166; June 22; v. 275; p. 793.
Rubber hose. The B. F. Goodrich Company. No. 128,497; June 22; v. 275; p. 799.
Rubber hose with metal lining. Metal Hose & Tubing Co. No. 128,790; June 22; v. 275; p. 800.
Rust-remover. J. M. Darr Company. No. 123,882; June 22; v. 275; p. 790.
Salve for blood-poisoning, boils, cuts, &c. The Miracle Salve Company. No. 127,765; June 22; v. 275; p. 796.
Searchlights, Electric. Kay Bee Manufacturing Company. No. 109,749; June 22; v. 275; p. 784.
Seeds, Flower and vegetable. S. A. Rogers Co. No. 127,698; June 22; v. 275; p. 795.
Shirts and underwear, Men's dress-. George E. Sweetser Company. No. 121,029; June 22; v. 275; p. 787.
Shirts, Men's negligée. Unexcelled Shirt Co. No. 130,305; June 22; v. 275; p. 805.
Shoes. Kaufmann Department Stores. No. 131,271; June 22; v. 275; p. 809.
Shoes, Leather, rubber, &c. International Shoe Company. No. 120,993; June 22; v. 275; p. 787.
Silk in the piece, charmeuses, &c., Broad. G. Oesterreicher & Co. No. 130,913; June 22; v. 275; p. 807.
Soap. E. Fougera & Co. No. 130,364; June 22; v. 275; p. 805.
Soap chips. West Coast Soap Co. No. 131,195; June 22; v. 275; p. 808.
Soap in liquid and solid form, Shampoo. Wildroot Co. No. 131,197; June 22; v. 275; p. 808.
Soap, soap jelly, powder, and flakes. G. N. Smith. No. 131,403; June 22; v. 275; p. 810.
Soap, Soft. W. Wunsch. No. 102,327; June 22; v. 275; p. 783.
Soaps, shaving-cream, and metal-polish. The Mills Brothers Company. No. 131,911; June 22; v. 275; p. 812.
Soda and water-softener, Washing-. H. E. Kreider. No. 127,730; June 22; v. 275; p. 796.
Steel, Tool. The Carpenter Steel Company. No. 131,780; June 22; v. 275; p. 812.
Sugar and fruit syrups, Maple-cane. The Barrel Syrup Co. No. 123,726; June 22; v. 275; p. 789.
Suitings and dress goods. Lesher, Whitman & Co. No. 124,722; June 22; v. 275; p. 791.
Sulfur. Great Southern Sulphur Company. No. 128,092; June 22; v. 275; p. 798.
Suppository, anodyne astringent. Sharp & Dohme. No. 127,335; June 22; v. 275; p. 794.
Syrup for foor purposes, Baker's. Augusta Ice & Beverage Company. No. 131,245; June 22; v. 275; p. 809.
Syrup for sweetening foods. The Baltimore Pearl Hominy Company. No. 130,639; June 22; v. 275; p. 806.
Syrups and beverages made therefrom, Non-alcoholic. W. M. Williams. No. 131,292; June 22; v. 275; p. 809.
Syrups, Table-. J. Stromeyer. No. 118,941; June 22; v. 275; p. 786.
Table-syrup and syrup for sweetening foods. The Baltimore Pearl Hominy Company. No. 130,640; June 22; v. 275; p. 806.
Tablets for the treatment of influenza, colds, &c. F. T. Krein. No. 129,981; June 22; v. 275; p. 804.
Talking-machine needles. Collings & Company. No. 131,861; June 22; v. 275; p. 812.
Talking-machine records and prepared music sheets and rolls. Standard Music Roll Co. No. 131,506; June 22; v. 275; p. 811.
Talking-machines. R. B. Gatton. No. 125,696; June 22; v. 275; p. 792.
Talking-machines, record-disks, sound-boxes, and needles. J. Para. No. 118,118; June 22; v. 275; p. 785.
Tea. Hudson Coffee Mills. No. 130,038; June 22; v. 275; p. 804.
Tea. Hudson Coffee Mills. No. 130,100; June 22; v. 275; p. 804.
Tea. A. O. Nuttall. No. 129,949; June 22; v. 275; p. 803.
Telegraph apparatus, Ships', electrical. Chadburn's (Ship) Telegraph Co. No. 110,802; June 22; v. 275; p. 784.
Thread and yarn. H. E. Locke & Company. No. 120,756; June 22; v. 275; p. 787.
Tire casings and tubes, Rubber-. Achilles Rubber and Tire Company. No. 127,699; June 22; v. 275; p. 795.
Tires, Pneumatic. The Lion Supply Company. No. 123,438; June 22; v. 275; p. 789.
Tooth paste, powder, and wash. Laboratorium Leo, Dr. Phil. Ottomar Heinsius V. Mayenburg. No. 126,186; June 22; v. 275; p. 793.
Toy balls, trunks, air-planes, fans, &c. Oxford-print. No. 117,986; June 22; v. 275; p. 785.
Trucks, Motor-. Parker Motor Truck Company. No. 121,357; June 22; v. 275; p. 787.
Waists and blouses. Kornhandler & Kane. Nos. 126,382–4; June 22; v. 275; p. 793.
Washing compounds. J. Elliot. No. 127,090; June 22; v. 275; p. 793.
Washing machines and wringers, Clothes-. The Hirschy Company. No. 129,063; June 22; v. 275; p. 801.
Washing machines, Clothes-. Puffer-Hubbard Manufacturing Company. No. 129,341; June 22; v. 275; p. 802.
Washing-powder. West Coast Soap Co. No. 131,196; June 22; v. 275; p. 808.
Welding cast-iron; Scaling-powder for. Davis-Bournonville Company. No. 128,084; June 22; v. 275; p. 798.
Welding or brazing brass, bronze, &c., Flux-powder for. Davis-Bournonville Company. No. 128,085; June 22; v. 275; p. 798.

CLASSIFICATION OF PATENTS

ISSUED JUNE 22, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 6: 1,344,157
7: 1,344,441
32: 1,344,305
41: 1,344,290
2— 62: 1,344,580
73: 1,344,004
84: 1,344,248
95: 1,344,011
134: 1,344,075
3— 12: 1,344,357
4— 26: 1,343,892
33: 1,344,531
39: 1,344,442
5— 12: 1,343,985
18: 1,344,188
22: 1,344,450
41: 1,344,588
52: 1,344,257
55: 1,344,583
56: 1,344,009
70: 1,344,088
7— 3: 1,344,046
1,344,114
8— 18: 1,344,120
1,344,121
1,344,122
9— 17: 1,343,928
21: 1,344,225
10— 1: 1,344,607
140: 1,344,113
12— 11.1: 1,344,316
20: 1,344,063
30: 1,344,041
42: 1,344,247
131: 1,343,891
146: 1,344,503
13— 1: 1,344,252
15— 8: 1,343,895
50: 1,344,050
56: 1,344,112
1,344,198
60: 1,344,389
69: 1,344,008
16— 4: 1,344,418
5: R. 14,899
20: 1,344,176
25: 1,344,538
49: 1,344,479
90: 1,344,454
18— 1: 1,344,237
2: 1,344,541
5: 1,344,270
12: 1,344,445
45: 1,344,313
— 8: 1,344,181
12: 1,344,532
20: R. 14,893
40: 1,344,529
40.5: 1,344,010
69: 1,343,904
79: 1,344,310
22— 32: 1,343,940
58: 1,344,294
65: 1,344,409
123: 1,344,083
198: 1,343,941
23— 13: 1,343,897
1,343,918
1,343,927
1,344,018
1,344,035
24— 129: 1,344,589
130: 1,344,224
135: 1,344,476
139: 1,344,254
203: 1,343,942
222: R. 14,892
240: 1,343,939
253: 1,344,500
261: 1,344,473
263: 1,344,556
25— 1: 1,344,099
30: 1,344,590
41: 1,344,230
42: 1,343,909
48: 1,344,278
128: 1,344,115
25— 155: 1,344,087
29— 67: 1,344,428
86: 1,344,510
86.1: 1,343,901
89: 1,344,385
1,344,559
96: 1,344,537
148: 1,344,416
30— 12: 1,343,900
1,344,447
31— 101: 1,344,140
32— 4: 1,343,935
1,343,949
1,343,950
12: 1,344,076
33— 34: 1,344,166
44: 1,344,569
46: 1,343,952
93: 1,344,269
107: 1,343,968
111: 1,343,912
133: R. 14,898
203: 1,344,264
34— 5: 1,344,551
12: 1,344,419
19: 1,344,163
30: 1,344,241
36— 30: 1,344,504
36: 1,344,443
42: 1,344,356
37— 50: 1,344,560
40— 10: 1,344,079
16: 1,344,223
1,344,420
21: 1,343,953
46: 1,343,994
132: 1,344,355
145: 1,344,268
41— 1: 1,343,972
1,344,162
7: 1,344,427
46: 1,343,978
43— 143: 1,344,119
45— 58: 1,344,498
46— 4: 1,343,998
1,344,053
31: 1,344,104
35: 1,344,451
37: 1,344,250
45: 1,344,064
55: 1,344,547
56: 1,344,480
64: 1,343,984
69: 1,344,255
47— 18: 1,344,526
49— 38: 1,343,987
8.31: 1,344,325
51— 16: 1,344,522
34: 1,344,168
145: 1,343,981
203: 1,343,959
53— 3: 1,344,039
1,344,161
1,344,511
6: 1,343,991
54— 77: 1,344,354
55— 38: 1,344,236
83: 1,344,159
56— 32: 1,344,205
78: 1,344,017
135: 1,344,130
368: 1,343,896
348: 1,344,552
402: 1,344,348
60— 14: 1,344,090
61— 28: 1,344,043
62— 115: 1,344,502
63— 4: 1,344,365
15: 1,344,111
64— 14: 1,344,527
23: 1,344,175
25: 1,344,267
27: 1,344,495
33: 1,344,465
39: 1,344,276
1,344,524
65— 13: 1,344,179
65— 31: 1,344,072
1,344,404
66— 4: 1,344,468
67— 23: 1,344,446
50: 1,344,200
70— 53: 1,344,469
105: 1,344,517
126: 1,343,990
128: 1,344,554
72— 30: 1,343,926
73— 32: 1,344,462
51: 1,343,954
1,344,301
1,344,515
110: 1,344,340
74— 5: 1,344,128
7: 1,343,963
1,344,150
1,344,288
1,344,439
13: 1,344,598
33: 1,344,343
34: 1,343,944
1,344,280
41: 1,343,923
46: 1,344,345
58: 1,344,319
59: 1,344,236
1,344,606
64: 1,344,475
79: 1,344,005
81: 1,344,466
1,344,602
85: 1,344,592
99: 1,344,107
109: 1,344,342
75— 1: 1,344,165
1,344,566
77— 2: 1,344,410
75: 1,344,411
78— 14: 1,343,946
81— 15: 1,344,533
1,344,562
57: 1,344,265
72: 1,344,542
126: 1,344,101
1,344,234
134: 1,344,154
162: 1,344,573
82— 1: 1,344,550
5: 1,344,536
83— 8: 1,344,453
1,344,470
10: 1,344,584
11: R. 14,886
27: 1,344,148
52: 1,344,578
60: 1,344,390
1,344,493
64: 1,344,549
73: 1,344,306
75: 1,344,180
81: 1,344,051
84— 17: 1,344,374
46: 1,344,497
136: 1,344,574
168: 1,344,328
1,344,386
85— 5: 1,344,596
50: 1,344,417
51: 1,344,194
87— 5: 1,344,545
88— 24: 1,344,379
47: 1,344,474
55: 1,344,293
89— 3: 1,344,499
90— 4: 1,343,982
1,344,299
91— 54: 1,344,426
92— 39: 1,344,570
44: 1,344,603
67: 1,344,024
1,344,173
93— 40: 1,343,906
51: 1,344,506
59: 1,343,907
95— 30: 1,344,182
95— 31: 1,344,207
97— 4: 1,344,131
34: 1,344,138
55: 1,344,586
98— 31: 1,344,054
99— 2: 1,344,350
8: 1,344,240
11: 1,343,915
100— 44: 1,344,261
47: 1,344,287
57: 1,344,156
101— 3: 1,344,214
6: 1,344,007
53: 1,344,384
202: 1,344,026
292: 1,344,489
381: 1,343,917
102— 2: 1,344,558
3: 1,343,969
1,344,074
103— 44: 1,344,085
82: 1,344,056
104— 254: 1,344,134
105— 117: 1,344,149
157: 1,344,397
243: 1,344,323
280: 1,344,208
288: 1,344,403
363: 1,344,243
377: 1,344,322
390: 1,344,393
106— 4: 1,344,058
9: 1,344,461
24: 1,343,929
1,344,324
36.1: 1,344,141
107— 18: 1,344,091
20: 1,344,286
21: 1,343,932
54: R. 14,887
58: 1,344,285
110— 28: 1,344,333
37: 1,344,144
3: 1,344,605
57: 1,344,424
197: 1,344,284
262: 1,344,000
113— 1: 1,344,405
80: 1,343,913
1,343,914
114— 1: 1,344,151
21: 1,344,352
51: 1,344,505
145: 1,344,518
115— 1: 1,344,317
116— 35: 1,344,152
144: 1,344,082
119— 27: 1,344,094
36: 1,344,591
44: 1,344,019
75: 1,344,189
120— 4: 1,343,960
6: 1,344,375
25: 1,344,335
38: 1,344,434
101: 1,344,329
121— 10: 1,344,523
14: 1,344,126
15: 1,344,170
95: 1,344,137
122— 36: 1,343,937
109.5: 1,344,045
462: 1,344,211
123— 1: 1,343,938
12: 1,344,331
24: 1,343,929
1,344,324
36.1: 1,344,141
140— 12: 1,344,595
93: 1,343,920
143— 5: 1,344,096
37: 1,344,203
144— 9: 1,344,217
145— 108: 1,344,103
146— 11: 1,344,069
12: 1,344,118
148— 8: 1,344,372
10: 1,343,976
1,343,977
12: 1,344,392
80: 1,343,913
149— 16: 1,344,467
150— 34: 1,344,124
151— 11: 1,344,534
152— 1: 1,344,346
14: 1,344,273
1,344,477
115— 1: 1,344,317
116— 35: 1,344,152
27: 1,343,971
144: 1,344,082
28: 1,344,513
29: 1,344,012
30: 1,343,898
1,344,483
33: 1,344,025
41: 1,344,401
48: 1,344,337
25: 1,344,335
1,344,579
153— 22: 1,344,105
67: 1,344,116
154— 8: 1,344,143
45: 1,343,986
52: 1,344,145
155— 33: 1,344,216
48: 1,344,277
94: 1,344,092
137: 1,344,431
139: 1,344,097
168: 1,344,402
156— 14: 1,343,933
1,344,063
17: 1,344,448
19: 1,344,412
24: 1,343,997
1,344,298
33: 1,344,233
36: 1,344,358
157— 1: 1,343,992
6: 1,343,893
7.6: 1,344,438
158— 12: 1,344,341
63: 1,344,414
69: 1,344,421
91: 1,343,945
117.5: 1,344,049
159— 99: 1,344,555
161— 26: 1,344,440
164— 4: 1,344,488
19: 1,344,034
49: 1,344,155
68: 1,344,302
73: 1,344,169
87: 1,344,587
88: 1,344,492
90: 1,344,435
167— 3: 1,344,318
6: R. 14,890
169— 11: 1,343,911
22: 1,344,380
170— 154: 1,344,040
165: 1,344,496
171— 220: 1,343,905
1,344,222
172— 288: 1,344,260
173— 318: R. 14,888
341: 1,344,206
174— 175: 1,344,002
175— 183: 1,344,042
1,344,387
1,344,388
356: R. 14,891
176— 34: 1,344,429
177— 316: 1,344,178
179— 18: 1,343,903
1,343,989
1,344,195
23: 1,344,210
180— 4: 1,344,571
9.1: 1,344,353
9.2: 1,344,360
1,344,366
1,344,368
50: 1,343,979
69: 1,344,095
181— 27: 1,344,307
182— 2: 1,344,249
183— 7: 1,344,330
82: 1,344,146
83: 1,344,585
184— 69: 1,344,078
185— 41: 1,344,291
187— 11: 1,344,271
1,344,272
49: 1,344,266
61: 1,344,430
188— 58: 1,344,309
77: 1,344,003
130: 1,343,970
131: 1,343,973
195: 1,344,129
189— 37: 1,344,229
46: 1,344,540
190— 15: 1,344,408
192— 5: 1,344,597
10: 1,344,361
1,344,399
193— 1: 1,344,013
4: 1,344,006
1,344,246
14: 1,344,396
23: 1,344,171
194— 6: 1,344,251
61: 1,343,999
74: 1,344,484
195— 1: R. 14,889
196— 25: 1,344,258
197— 183: 1,344,304
200— 24: 1,344,395
84: 1,343,947
97: 1,344,196
1,344,197
1,244,199
106: 1,343,991
120: R. 14,897
130: 1,344,286
1,344,359
142: 1,344,471

204— 5: 1,344,220
9: 1,344,031
10: 1,344,030
15: 1,344,127
29: 1,343,957
31: 1,343,948
1,344,153
205— 13: 1,344,568
206— 47: 1,344,135
51: 1,344,110
64: 1,343,934
207— 11: 1,344,577
208— 15: 1,344,382
34: 1,344,108
35: 1,344,494
38: 1,343,963
91: 1,344,226
138: 1,343,916
165: 1,344,548
210— 54: 1,344,370
200: 1,344,215
211— 8: 1,343,974
1,344,142
1,344,160
13: 1,344,391
14: 1,344,239
17: 1,344,027
27: 1,344,106
212— 4: 1,344,218
58: 1,343,966
213— 42: 1,344,183
1,344,184
1,344,185
67: 1,343,908
1,344,482
214— 15: 1,344,459
214— 15: 1,344,481
18: 1,343,995
67: 1,344,047
215— 14: 1,344,516
33: 1,343,962
216— 9: 1,344,081
62: 1,344,080
217— 47: 1,344,543
66: 1,344,576
79: 1,344,098
219— 4: 1,344,415
10: 1,344,125
11: 1,343,906
37: 1,344,282
38: 1,344,303
46: 1,344,581
63: 1,344,406
220— 8: 1,344,601
39: 1,344,457
55: 1,344,455
1,344,456
1,344,015
61: 1,343,955
63: 1,344,557
67: 1,344,089
221— 23: 1,343,921
84: 1,344,478
104: 1,343,924
224— 19: 1,344,377
29: 1,343,964
1,344,202
228— 50: 1,344,371
229— 14: 1,344,147
73: 1,344,071
1,344,394
230— 13: 1,343,922
24: 1,343,975
232— 19: 1,344,281
233— 19: 1,344,519
20: 1,344,055
234— 43: 1,344,059
235— 60: 1,344,191
74: 1,344,190
100: 1,344,086
144: 1,343,988
236— 19: 1,344,423
22: 1,344,422
44: 1,343,894
80: R. 14,894
R. 14,895
238— 14: 1,344,238
188: 1,344,604
197: 1,344,336
292: 1,344,109
324: 1,344,016
330: 1,344,014
1,344,015
240— 9: 1,344,084
23: 1,343,899
48.4: 1,344,164
48.6: 1,344,594
52: 1,344,073
78: 1,344,452
85: 1,344,077
242— 43.6: 1,344,449
44: 1,344,432
75: 1,343,910
84.4: 1,344,289
110: 1,344,567
146: 1,341,274
149: 1,344,400
244— 12: 1,344,520
14: 1,344,314
18: 1,344,283
19: 1,344,486
21: 1,344,044
25: 1,344,297
31: 1,344,244
246— 39: 1,344,070
54: 1,344,308
128: 1,344,525
170: 1,344,231
1,344,232
370: 1,344,487
449: 1,344,259
488: 1,344,564
247— 40: 1,344,501
248— 20: 1,343,965
1,344,344
30: 1,344,376
32: 1,343,930
34: 1,344,514
250— 19: 1,344,052
20: 1,344,275
36: R. 14,896
251— 5: 1,344,433
105: 1,344,490
112: 1,344,364
137: 1,343,951
1,344,102
252— 253— 3: 1,344,133
57: 1,344,193
69: 1,343,956
677: 1,344,311
188: 1,344,509
254— 52: 1,344,485
77: 1,344,312
254— 78: 1,344,472
86: 1,344,036
98: 1,344,575
103: 1,344,117
255— 69: 1,343,902
75: 1,344,327
256— 14: 1,344,262
15: 1,344,535
257— 7: 1,344,057
129: 1,344,351
132: 1,343,919
229: 1,344,381
259— 125: 1,344,022
134: 1,344,565
261— 122: 1,344,123
262— 30: 1,344,201
263— 5: 1,344,021
15: 1,344,436
1,344,437
1,344,458
265— 7: 1,344,295
1,344,339
23: 1,344,315
267— 20: 1,344,204
26: 1,344,593
70: 1,344,068
268— 6: 1,343,925
18: 1,344,561
270— 5: 1,343,931
271— 50: 1,344,167
274— 34: 1,344,186
280— 87.5: 1,344,023
96.1: 1,344,192
104: 1,344,334
106: 1,344,209
280— 332: 1,344,033
283— 9: 1,344,235
284— 17: 1,344,539
285— 84: 1,343,967
146: 1,344,221
163: 1,344,028
286— 36: 1,344,347
287— 103: 1,344,425
292— 61: 1,344,048
78: 1,344,508
209: 1,344,038
259: 1,344,444
275: 1,344,507
315: 1,344,491
293— 35: 1,344,213
294— 82: 1,344,320
83: 1,344,187
118: 1,344,174
295— 47: 1,344,460
50: 1,344,600
296— 35: 1,344,572
66: 1,344,546
298— 7: 1,344,100
299— 152: 1,344,383
301— 17: 1,344,212
39: 1,344,512
40: 1,343,936
304— 40: 1,344,139
305— 9: 1,344,363
10: 1,343,958
1,344,373
1,344,398

SEP 1 1920
LIBRARY

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrahamsen, Sigurd O., Virginia, Minn. Automatic fire-alarm. No. 1,344,471; June 22; v. 275; p. 742.
Abrams, Albert. (See Hoffman, Samuel O., assignor.)
Abrams, Herbert T., Orange, assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic valve for air-lift pumps. No. 1,343,190; June 15; v. 275; p. 427.
Acheson, Edward G., New York, N. Y. Deflocculating solid materials and agents therefor. No. 1,345,305; June 29; v. 275; p. 969.
Acheson, Edward G., New York, N. Y. Deflocculating solid substances. No. 1,345,306; June 29; v. 275; p. 969.
Ackley, G. S., & Co. (See Ackley, Griffin S., assignor.)
Ackley, Griffin S., Brooklyn, N. Y., assignor to G. S. Ackley & Co. Brake mechanism. No. 1,341,830; June 1; v. 275; p. 43.
Ackroyd, Harry, East Chicago, Ind. Brine-valve. No. 1,343,072; June 8; v. 275; p. 340.
Ackroyd, John H., Milford, Conn. Gas-burner. No. 1,343,700; June 15; v. 275; p. 528.
Acme Motor Truck Co. (See Kysor, Walter A., assignor.)
Acme Printing Appliance Co. (See Schussler, John H., assignor.)
Court Beadon, Richard R., Simla, Punjab, British India. Flexible shock-absorbing wheel and tire. No. 1,345,990; June 29; v. 275; p. 907.
Acousti-Scope Corporation. (See Saltzman, Joseph G., assignor.)
Adams, Arthur A. (See Emery, F. A., and Adams.)
Adams-Bagnall Electric Company, The. (See Goetz, L. G., and Edeburn, assignors.)
Adams, Fred, assignor to The Perfek'tone Corporation, Philadelphia, Pa. Reproducer for talking-machines. No. 1,344,931; June 29; v. 275; p. 897.
Adams, James L., Jr., and H. H. Welch, assignors to A. O. Smith Corporation, Milwaukee, Wis. Electric-arc-welding machine. No. 1,343,607; June 15, v. 275; p. 507.
Adams & Westlake Company, The. (See Krohn, Nelson, assignor.)
Adams, William A. (See Skublin, Charles P., assignor.)
Adamson, James E. (See Akin, John H., assignor.)
Aetna Explosives Company. (See Flurscheim, Bernhard J., assignor.)
Afranel, Moses, New York, N. Y. Brush-holder No. 1,343,381; June 15; v. 275; p. 463.
Ahlgren, John M., Indianapolis, Ind. Storage-battery container. No. 1,341,871; June 1; v. 275; p. 51.
Ahlin, Albert, assignor to Orrefors Bruks Aktiebolag, Orrefors, Sweden. Manufacturing decorated articles of glass with colored figures in the glass mass. No. 1,343,806; June 15; v. 275; p. 547.
Aiken, Edward L. (See Aylsworth, J. W., and Aiken.)
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pneumatic-core wire-puller. No. 1,343,701; June 15; v. 275; p. 526.
Aikman, Walter M., Greenwich, Conn., assignor to The Central Stamping Company, New York, N. Y. Composite bake-pan. No. 1,343,991; June 22; v. 275; p. 648.
Air Reduction Company. (See von Recklinghausen, Max, assignor.)
Air Reduction Company, Inc. (See Russell, Richard F., assignor.)
Akeley, Carl E., New York, N. Y. Mirror and backing same. No. 1,342,578; June 8; v. 275; p. 242.
Akers, Lawrence S., Memphis, Tenn. Fire-door-closing apparatus. No. 1,343,757; June 15; v. 275; p. 537.
Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Method of and apparatus for testing for dynamic balances. No. 1,343,954; June 22; v. 275; p. 641.
Akin, John H., assignor of one-half to J. E. Adamson, Ames, Iowa. Starting and landing mechanism for aeroplanes. No. 1,342,145; June 1; v. 275; p. 105.
Aktiebolaget Kvafveindustri. (See Thorssell, C. T., and Lundén, assignors.)
Aktiebolaget Kvafveindustri. (See Holmgren, T. A. F., and Thorssell, assignors.)
Aktiebolaget Ljungström Angturbin. (See Ljungström, B. and J., assignors.)
Aktiebolaget Ljungström Angturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Nordlund, Erland, assignor.)
Albertie, Addis E., Detroit, Mich. Collapsible chair and the like. No. 1,344,431; June 22; v. 275; p. 734.
Albertson, Linden, Newark, N. J. Valve. No. 1,343,490; June 15; v. 275; p. 484.
Albonesi, Charles, Dumont, N. J. Window. No. 1,342,411; June 8; v. 275; p. 209.
Albrecht, Albert W., St. Louis, Mo. Survey-post. No. 1,345,111; June 29; v. 275; p. 930.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromotive device. No. 1,344,196; June 22; v. 275; p. 688.
Albrecht, George M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromotive device. No. 1,344,197; June 22; v. 275; p. 688.
Albright, George A. (See Brown, Roy E., assignor.)
Alcañiz y Bascompte, Francisco. (See Dieguez y Lopez, J., and Alcañiz y Bascompte.)
Aldis, Arthur J. (See Parsons, C. A., Cook, and Aldis.)
Alexander, Andrew M., Nortonville, assignor of one-half to E. P. Alexander, Dawson Springs, Ky. Gearing. No. 1,343,189; June 15; v. 275; p. 427.
Alexander, Emot P. (See Alexander, Andrew M., assignor.
Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-wrench. No. 1,341,700; June 1; v. 275; p. 17.
Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-driven tool-driver. No. 1,341,701; June 1; v. 275; p. 17.
Alicando, Frank. (See Coletta, Luigi, assignor.)
Alien Property Custodian. (See Fischer, Adalbert, assignor.)
Allan, James H., assignor, by mesne assignments, to United States Window Glass Company, Morgantown, W. Va. Glass-drawing apparatus. No. 1,342,080; June 1; v. 275; p. 91.
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Molding hollow bodies. No. 1,343,191; June 15; v. 275; p. 427.
Allen, Annie, administratrix. (See Koenig, William J., assignor.)
Allen, Charles, El Paso, Tex. Automatic density-indicator for slime-pulp separators. No. 1,344,370; June 22; v. 275; p. 722.
Allen, Charles C., Raymilton, Pa. Skid-chain tightener. No. 1,344,472; June 22; v. 275; p. 743.
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,342,523. June 8; v. 275; p. 231.
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,344,748; June 29; v. 275; p. 862.
Allen, M. J. K., *et al.* (See Coulter, Hugh A., assignor.)
Allen, Presley R. (See Goben, Edward F., assignor.)
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Allen, S. L. & Co., Inc. (See Bowen, James M., assignor.)
Allend, Joseph, Philadelphia, Pa. Vehicle-tire. No. 1,343,540; June 15; v. 275; p. 494.
Allender, Charles W. G., assignor of one-fourth to L. C. Rasel, Washington, Pa. Button. No. 1,341,771; June 1; v. 275; p. 32.
Alles, Fred W., A. Fletcher, and G. E. Hitchens, McKeesport, Pa. Gas-burner for drying ladles. No. 1,342,932; June 8; v. 275; p. 312.
Allis-Chalmers Manufacturing Company. (See Albrecht, George M., assignor.)
Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
Allis-Chalmers Manufacturing Company. (See Hagmaier, William G., assignor.)
Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Manufacturing Company. (See Wilson, James, assignor.)
Allison, James A., *et al.* (See Kramer, Benjamin G., assignor.)

Allison, Lawrence E., Modesto, Calif. Loose-leaf-binder extension. No. 1,344,971; June 29; v. 275; p. 903.
Allison, Philip W. (See Sprague, F. D., and Allison.)
Almion Engineering & Contracting Company *et al.* (See Sullivan, D. C., Hawkins, and MacMillan, assignors.)
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Air-back for stokers. No. 1,343,702; June 15; v. 275; p. 526.
Alphaero Engines (Foreign Patents.) (See Alston, Charles H. T., assignor.)
Alston, Charles H. T., Stirling, Scotland, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,342,146; June 1; v. 275; p. 105.
Alston, Walter M., Pittsburgh, Pa., assignor to The Baker-Dunbar Allen Company, Cleveland, Ohio. Concrete stack. No. 1,344,608; June 29; v. 275; p. 835.
Altland, Paul P., Rochester, N. H. Runner. No. 1,345,307; June 29; v. 275; p. 969.
Alvis, Gordon. (See Thomson, R. A., and Alvis.)
American Arch Company. (See Willett, Alfred H., assignor.)
American Balsa Company, The. (See Wellin, Axel, assignor.)
American Bank Note Company. (See Smith, Amos H., assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang, E., assignor.)
American Brake Company, The. (See Wahlert, Henry A., assignor.)
American Can Company. (See Baker, Herbert A., assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Kenny, William J., assignor.)
American Can Company. (See Klingman, Louis, assignor.)
Ament, Elizabeth, Brooklyn, N. Y. Condiment-holder. No. 1,342,524; June 8; v. 275; p. 231.
American Engineering Company. (See Alpern, Maxwell, assignor.)
American Hardware Corporation, The. (See Stone, Elmer E., assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Optical Company. (See Day, George H., assignor.)
American Piano Company. (See Russell, Guy M., assignor.)
American Plate Glass Company. (See Willis, John, assignor.)
American Pipe Machine Company. (See Reese, James A., assignor.)
American Pretzel Company, The. (See Schumaker, Lorraine J., assignor.)
American Radio & Research Corporation. (See Bush, Vannevar, assignor.)
American Refrigeration Company, The. (See Willsie, Henry E., assignor.) (Reissue.)
American Road Machinery Company. (See Berry, Earl E., assignor.)
American Steam Conveyor Corporation. (See Griffin, Lorne A., assignor.)
American Steel Products Co. (See Schell, Theodore, assignor.)
American Telephone and Telegraph Company. (See Carson, John R., assignor.)
American Thread Company, The. (See Wild, J. E., and Caldwell, assignors.)
American Tobacco Company. (See Hill, George W., assignor.)
American Trona Corporation. (See Morse, Harry W., assignor.)
American Well Works, The. (See Chapman, Matthew T., assignor.)
Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Stop-motion. No. 1,342,245; June 1; v. 275; p. 125.
Ames, Howard E., Washington, D. C. Sanitary receptacle. No. 1,344,531; June 22; v. 275; p. 754.
Amesbury Brass and Foundry Company. (See Miller, William, assignor.)
Anaconda Copper Mining Company. (See Elton, J. O., and Caples, assignors.)
Anciens Etablissements A. Combe & Fils & Cie. (See Poto, Mariano, assignor.)
Anderson, Alfred, Goodhue, Minn. Nut-lock. No. 1,344,845; June 29; v. 275; p. 881.
Anderson, Andrew P., Lynbrook, N. Y., assignor of one-half to W. P. Ten Eyck, Westfield, N. J. Packing. No. 1,342,198; June 1; v. 275; p. 115.
Anderson, Arthur R., North Arlington, N. J. Shoe-tree. No. 1,343,891; June 22; v. 275; p. 629.
Anderson, August R., assignor of one-half to J. H. Knight, Kingman, Ariz. Flytrap. No. 1,342,933; June 8; v. 275; p. 312.
Anderson, Charles E., assignor of one-half to F. Thunberg, Sacramento, Calif. Counterbalanced pump. No. 1,343,427; June 15; v. 275; p. 472.
Anderson, David. (See Scott-Snell, Charles, assignor.)
Anderson, Erick E., St. Louis, Mo. Wagon end-gate. No. 1,342,705; June 8; v. 275; p. 266.
Anderson, George J., and W. R. Smith, Cleveland, Ohio; said Anderson assignor to said Smith. Marking device. No. 1,343,073; June 8; v. 275; p. 340.
Anderson, George W., Benona township, Oceana county, Mich. Game apparatus. No. 1,342,884; June 8; v. 275; p. 303.
Anderson, Gust L., Fresno, Calif. Tray-turner. No. 1,344,932; June 29; v. 275; p. 897.
Anderson, Hiram C., New York, N. Y. Resilient wheel. No. 1,342,271; June 1; v. 275; p. 129.
Anderson, James A., Morgan, Utah. Conveyer. No. 1,342,789; June 8; v. 275; p. 284.
Anderson, James C., Rutherford, N. J., assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,344,432; June 22; v. 275; p. 735.
Anderson, James L. (See Cave, H., and Anderson.)
Anderson, James O., Eugene, Oreg. Draft-regulator. No. 1,341,872; June 1; v. 275; p. 51.
Anderson, John A., Geneseo, Ill. Attachment for bearings. No. 1,342,319; June 1; v. 275; p. 138.
Anderson, Kyle M. Echo, Oreg. Water-motor. No. 1,342,613; June 8; v. 275; p. 248.
Anderson, Vincent G., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Walking-dredge. No. 1,344,571; June 22; v. 275; p. 762.
Anderson, William W., Chicago, Ill. Combined table and ironing-board. No. 1,342,660; June 8; v. 275; p. 256.
Andes, Robert A., Maroa, Ill. Harrow-hinge. No. 1,342,614; June 8; v. 275; p. 248.
Andress, Bert E., Port Allegany, Pa. Railway-signal. No. 1,341,772; June 1; v. 275; p. 32.
Andrew, Frederick W., assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y. Impulse-starter. No. 1,342,199; June 1; v. 275; p. 115.
Andrew, Wilbur A., Evansville, Wis. Adjustable gambrel. No. 1,345,112; June 29; v. 275; p. 930.
Andrew, Wilbur A., Evansville, Wis. Watering-bowl. No. 1,345,113; June 29; v. 275; p. 931.
Andrews, Hervey N., and R. M. Holmes, South Bend, Ind. Air-conditioning apparatus for drying-kilns. No. 1,343,894; June 22; v. 275; p. 629.
Angel, Albert, Cleveland, Ohio. Refractional demonstrating device. No. 1,341,773; June 1; v. 275; p. 32.
Angier, Edward H., Framingham, Mass. Baling. No. 1,344,785; June 29; v. 275; p. 869.
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. No. 1,342,081; June 1; v. 275; p. 92.
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. No. 1,342,082; June 1; v. 275; p. 92.
Anthony, Alfred R., Detroit, Mich. Fuel-oil burner. No. 1,342,732; June 8; v. 275; p. 271.
Appleby, Edmund G. (See Bentley, G. H., and Appleby.)
Appleby, William H., Windsor, Ontario, Canada. Radiator ventilator and cap. No. 1,344,609; June 29; v. 275; p. 835.
Appleman, William H., Belmont, N. Y. Steering-gear for motor-vehicles. No. 1,345,308; June 29; v. 275; p. 969.
Arbon, Paul, Tulsa, Okla. Swivel-jar socket. No. 1,343,541; June 15; v. 275; p. 494.
Arbon, Paul, Tulsa, Okla. Spring-swivel-jar socket. No. 1,343,542; June 15; v. 275; p. 494.
Arbuthnot, John, Victoria, British Columbia, Canada, assignor to P. N. Furber, New York, N. Y. Ship. No. 1,343,491; June 15; v. 275; p. 484.
Arceneau, Joseph. (See Rosenquist, Anton, assignor.)
Arduino, Pier T., Turin, Italy. Apparatus for preparing coffee infusion. No. 1,344,161; June 22; v. 275; p. 681.
Arghis, E. J., *et al.* (See Evans William F., assignor.)
Argo, Mattie L., Minneapolis, Minn. Steaming-form for millliners. No. 1,342,147; June 1; v. 275; p. 105.
Ariuchi, Rikizo, Portland, Oreg. Horseshoe. No. 1,342,615; June 8; v. 275; p. 248.
Armagost, George W., Minneapolis, Minn. Tool for contracting and expanding demountable wheel-rims. No. 1,343,992; June 22; v. 275; p. 648.
Armington, George A., Wickliffe, Ohio. Tractor. No. 1,342,412; June 8; v. 275; p. 209.
Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
Armour, Robert, Providence, R. I. Resilient heel-tread. No. 1,344,972; June 29; v. 275; p. 904.
Armstrong Bros. Tool Co. (See Fletcher, Joseph C., assignor.)
Armstrong, Charles C., Huntington, W. Va. Fastening device for hinged box members. No. 1,344,846; June 29; v. 275; p. 881.
Armstrong, Edwin H., Paris, France. Receiving high-frequency oscillations. No. 1,342,885; June 8; v. 275; p. 303.
Armstrong, James R., Pittsburgh, Pa. Gas-meter. No. 1,342,886 June 8; v. 275; p. 303.
Armstrong, John, London, assignor of one-half to Patent Corporation Limited, Liverpool, England. Alkali-package. No. 1,342,148; June 1; v. 275; p. 105.
Armstrong, John E., Newcastle-upon-Tyne, England. Automatic drain and pressure-relief valve. No. 1,343,382; June 15; v. 275; p. 463.
Arndt, Edna M., Buffalo, N. Y. Combined window-sash fastener and burglar-alarm. No. 1,345,309; June 29; v. 275; p. 969.
Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
Arnold, George T. (See Breuckman, F. C., and Arnold.)

Arnold, Henry, assignor to Societe Francaise d'Editions Photo-Cartographiques, Paris, France. Altimetric device for use in the production of plans and maps in relief. No. 1,344,162; June 22; v. 275; p. 681.
Arnold, Jacob F., Bellevue, Ohio. Bookcase. No. 1,342,083; June 1; v. 275; p. 92.
Arnold Print Works. (See Jones, Samuel M., assignor.)
Arnolts, Peter, Odell, Ill. Coupling for antiskid-chains. No. 1,342,616; June 8; v. 275; p. 248.
Arnot, Owen G., Bakersfield, Calif. Roller-bearing. No. 1,341,873; June 1; v. 275; p. 51.
Arnott, James. Oakland, Calif. Mechanical movement. No. 1,342,887; June 8; v. 275; p. 303.
Aronson, Louis V., Newark, N. J. Pencil and igniter. No. 1,342,838; June 8; v. 275; p. 294.
Arter, Thomas W., Bellaire, Ohio. Cushion-heel. No. 1,345,114; June 29; v. 275; p. 931.
Arthur, James W., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Apparatus for repairing tires. No. 1,344,847; June 29; v. 275; p. 881.
Ash, Robert T. (See McGeorge, William C., assignor.)
Ashland Products Company, The. (See Willour, Le Roy, assignor.)
Aspromet Company. (See Robertson, Harold H., assignor.)
Atherton, Charles N. (See Sutter, J. H., and Atherton.)
Atkins, Earl F., Arlington, assignor to H. T. Shriver, West Orange, N. J. Filter. No. 1,342,839; June 8; v. 275; p. 294.
Atlanta Lithographic and Printing Company. (See Stranders, Julien, assignor.)
Atlantic Hand Brake Corporation, The. (See Richards, Willard F., assignor.)
Atlantic Hand Brake Corporation. (See Sauvage, William H., assignor.)
Atlas Powder Company. (See Given, G. C., McQuaid, and Long, assignors.)
Atwood, A. L. (See Parmenter, Brady, assignor.)
Aubery, James M., Los Angeles, Calif., assignor to Priestly Coupler Company. Differential axle. No. 1,344,933; June 29; v. 275; p. 897.
Audible Telephone Company, The. (See Birrell, William and J., assignors.)
Austin, Cyrus B., administrator. (See Austin, Raymond B.)
Austin, Frederick G. (See Anderson, Vincent C., assignor.)
Austin, Herbert, Bromsgrove, England. Time-fuse for explosive shells or bombs. No. 1,342,413; June 8; v. 275; p. 209.
Austin, Herbert, Bromsgrove, England. Wheel-caster. No. 1,343,758; June 15; v. 275; p. 538.
Austin, Raymond B. (See Sheler, J. C., and Austin.)
Austin, Raymond B., deceased, Delaware, Ohio; C. B. Austin, administrator. Ball-bearing counter. No. 1,342,733; June 8; v. 275; p. 272.
Auto Dimmer Company, The. (See Patton, Oliver C., assignor.)
Automatic Electric Company. (See Blessing, John G., assignor.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Mellinger, Edward A., assignor.)
Automatic Electric Company. (See Richardson, Rodney G., assignor.)
Automatic Electric Co. (See Truby, Franklin J., assignor.)
Automatic Electric Company. (See Wicks, John, assignor.)
Automatic Electric Company. (See Willis, Bernard D., assignor.)
Automatic Gold Chain Company. (See Speidel, Edwin F. M., assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Autopticon Company. (See Mengel, William R., assignor.)
Autorino, John, Middletown, N. Y. Lubricating device for riveting-hammers. No. 1,343,104; June 8; v. 275; p. 346.
Avery, Benjamin B., assignor, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Drinking-cup. No. 1,341,831; June 1; v. 275; p. 43.
Avery, Benjamin B., New York, N. Y., and A. Nelson, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Manufacturing sanitary drinking-cups. No. 1,341,832; June 1; v. 275; p. 43.
Avery, Benjamin B., and A. Nelson, Newark, N. J., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Sanitary drinking-cup and manufacturing such cups. No. 1,341,835; June 1; v. 275; p. 44.
Avery, Frank C., and R. E. Thompson, San Diego, Calif. Bottom for liquid-heating vessels. No. 1,342,888; June 8; v. 275; p. 303.
Avis, William H., Hamden, Conn. Pull-strap for laced shoes. No. 1,342,149; June 1; v. 275; p. 105.
Axen, John L., Detroit, Mich., assignor to National Gauge & Equipment Company, La Crosse, Wis. Device for inserting and adjusting bearings for staffs, spindles, and the like. No. 1,342,840; June 8; v. 275; p. 294.
Aylsworth, Adelaide M., executors, *et al.* (See Aylsworth, J. W., and Aiken.)
Aylsworth, Jonas W., deceased, (by A. M. Aylsworth and Savings Investment and Trust Company, executors,) and E. L. Aiken, East Orange, assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Matrix for producing sound-records. No. 1,345,115; June 29; v. 275; p. 931.
Babcock & Wilcox Company, The. See Jacobus, David S., assignor.)
Bach, Edward, Livingston, Mont. Automatic gate. No. 1,343,023; June 8; v. 275; p. 330.
Bachardy, Stephen J., New York, N. Y., and J. Kiss, South Bethlehem, Pa., assignors to Self Change Making Drawer Co., Allentown, Pa. Paying attachment for cash-registers. No. 1,344,786; June 29; v. 275; p. 869.
Bachila, Fred, Montreal, Quebec, Canada. Circuit-closer for letter-boxes. No. 1,345,116; June 29; v. 275; p. 931.
Backer, Christian B., Montreal, Quebec, Canada. Metal alloy. No. 1,341,774; June 1; v. 275; p. 32.
Bacmire, George H., Collegeville, Pa. Beater for removing dust and dirt from carpets or the like. No. 1,343,895; June 22; v. 275; p. 629.
Bader, Gustav A., Rochester, N. Y. Sighting device for firearms. No. 1,344,973; June 29; v. 275; p. 904.
Badger, Thomas N., Berkeley, Calif., and W. G. Smith, Wallace, Idaho. Disappearing stairway. No. 1,344,371; June 22; v. 275; p. 723.
Baehr, Hermine, Baltimore, Md. Sterilizer-rack. No. 1,344,252; June 22; v. 275; p. 698.
Baehr, Hermine, Baltimore, Md. Safety attachment for gas-stove. No. 1,344,253; June 22; v. 275; p. 698.
Baer, William N., White Bear, Minn. Detachable-body lock. No. 1,344,572; June 22; v. 275; p. 762.
Bagnulo, Salvatore, Revere, Mass. Shower-bath attachment. No. 1,343,892; June 22; v. 275; p. 629.
Bailer, Otto P., Memphis, Tenn. Cluster-back for jewelry. No. 1,343,246; June 15; v. 275; p. 437.
Bailey, Homer A. Elberta, Mich. Glazier's strip or point. No. 1,344,610; June 29; v. 275; p. 835.
Bain, Benjamin F. (See Gaines, Vincent S., assignor.) (Reissue.)
Baines, Henry C., East Cleveland, assignor, by mesne assignments, to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of steel, iron, and similar articles. No. 1,344,372; June 22; v. 275; p. 723.
Baird, Edward P., assignor to The King Lock Company, Chicago, Ill. Key-cutting machine. No. 1,345,117; June 29; v. 275; p. 932.
Baits, Stuart G., and S. I. Fekete, assignors to Hudson Motor Car Company, Detroit, Mich. Tractor. No. 1,342,934; June 8; v. 275; p. 312.
Baker-Dunbar Allen Company, The. (See Alston, Walter M., assignor.)
Baker, George W., Maytown, and G. Williams, Wyano, Pa. Balanced piston-valve. No. 1,343,105; June 8; v. 275; p. 346.
Baker, Herbert A., assignor to American Can Company, New York, N. Y. Means for hermetically sealing containers. No. 1,343,955; June 22; v. 275; p. 641.
Baker, Robert E., Bronxville, E. H. Ford, Brooklyn, and L. S. Harber, New York, assignors to Joseph Baker's Limited, New York, N. Y. Dough-feeding device. No. 1,343,184; June 8; v. 275; p. 361.
Baker, Roy R., Chicago, Ill. Switch-adjustment housing. No. 1,344,848; June 29; v. 275; p. 881.
Baker's, Joseph, Limited. (See Baker, R. E., Ford, and Harber, assignors.)
Bakke, Julius O., assignor to Washburn-Crosby Company, Minneapolis, Minn. Thread-cutter for bag-sewing machines. No. 1,342,150; June 1; v. 275; p. 105.
Balcom, Walter F., Dayton, Ohio. Preserving-jar. No. 1,342,039; June 1; v. 275; p. 84.
Baldauf, Charles L., West Hoboken, N. J., assignor to Thomas Nelson & Sons, New York, N. Y. Loose-leaf binder. No. 1,344,934; June 29; v. 275; p. 897.
Baldwin, Charles E., Houston, Tex. Penholder. No. 1,344,529; June 22; v. 275; p. 714.
Baldwin, Harry, Seymour, Conn. Paper-clip. No. 1,344,473; June 22; v. 275; p. 743.
Baldwin Locomotive Works, The. (See Rushton, Kenneth, assignor.)
Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)
Ball, Charles F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-link for chain tracks. No. 1,344,373; June 22; v. 275; p. 723.
Ballard, Asa H., Fort Morgan, Colo. Beet-topper. No. 1,344,849; June 29; v. 275; p. 881.
Ballou, B. A., & Company. (See Stafford, Rogers T., assignor.)
Bancroft, Wilfred, Slatersville, R. I. Method and means for treating light-weight fabrics. No. 1,342,935; June 8; v. 275; p. 313.
Bandini, Julius C., Corona, N. Y. Sifting-shovel. No.
Banes, Walter D., Philadelphia, Pa., assignor to General 1,341,874; June 1; v. 275; p. 51.
Pressed Metal Company. Hanger. No. 1,344,110; June 22; v. 275; p. 671.
Banner Machine Company, The. (See Major, W. R., and Grove, assignors.)
Banse, Robert J., Philadelphia, Pa. Paper-hanger machine. No. 1,343,106; June 8; v. 275; p. 346.

Baráth, Bertalan, Akron, Ohio. Hydraulic washing-machine. No. 1,343,107; June 8; v. 275; p. 346.

Barber-Colman Company. (See Colman, H. D., Peterson, and Parker, assignors.)

Barber-Colman Company. (See Field, M. F., and Lanning, assignors.)

Barber-Colman Company. (See Sinderson, John, assignor.)

Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Inking mechanism for printing-presses. No. 1,341,027; June 1; v. 275; p. 3.

Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-handling machine. No. 1,343,608; Jue 15; v. 275; p. 507.

Barber, Joel D., Tuckahoe, N. Y. Clothes-rack. No. 1,342,200; June 1; v. 725; p. 116.

Barber, John W., Newton, Mass. Coupling or clutch. No. 1,342,936; June 8; v. 275; p. 313.

Barber, William J., assignor, by mesne assignments, to The Kline Company, Cleveland, Ohio. Gas-burner. No. 1,342,617; June 8; v. 275; p. 248.

Barbey, Francis A., *et al.* (See McManama, John W., assignor.)

Barducci, Pilade, Naples, Italy. Drying plant. No. 1,344,163; June 22; v. 275; p. 681.

Bark, Arnold P., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Lifting-cylinder valve for forging-presses. No. 1,343,024; June 8; v. 275; p. 330.

Barker, William R., Vanzant, Mo. Agricultural implement. No. 1,343,896; June 22; v. 275; p. 629.

Barlow, J. E., *et al.* (See Christensen, Niels C., assignor.)

Barnes, Carl C., assignor of one-half to B. W. Jones, Portland, Oreg. Wrench. No. 1,344,573; June 22; v. 275; p. 763.

Barnett, J. T., *et al.* (See Jochumsen, J., and Netcott, assignors.)

Barnett, William A., Lincoln, Nebr. Attachment for garment-turning machines. No. 1,342,937; June 8; v. 275; p. 313.

Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Long-base single-observer range-finder. No. 1,343,025; June 8; v. 275; p. 330.

Barrett, James, New York, N. Y. Shaving kit. No. 1,343,703; June 15; v. 275; p. 527.

Barrett, Roy, Palmyra, N. Y. Vehicle. No. 1,343,993; June 22; v. 275; p. 649.

Barrickman, Bart M., Portland, Oreg. Clothespin. No. 1,344,254; June 22; v. 275; p. 699.

Barrows, Allan S., Chicago, Ill. Making edge-corrugated sheet-metal articles. No. 1,341,967; June 1; v. 275; p. 70.

Barrows, Allan S., Chicago, Ill. Sheet-metal door. No. 1,342,400; June 1; v. 275; p. 153.

Barrows, Harrington S., Cleveland, Ohio. Liquid-receptacle. No. 1,343,299; June 15; v. 275; p. 447.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making sodium sulfite. No. 1,343,897; June 22; v. 275; p. 630.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium arsenate. No. 1,344,018; June 22; v. 275; p. 654.

Barthez, Alfred H., Alger-Belcourt, Algeria. Water-distributer. No. 1,342,734; June 8; v. 275; p. 272.

Bartholomew, William, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Centrifugal extractor mechanism. No. 1,344,749; June 29; v. 275; p. 862.

Bartini, Joseph F., Washington, D. C. Bread cutter and carrier. No. 1,345,118; June 29; v. 275; p. 932.

Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Composition of matter and producing same. No. 1,342,084; June 1; v. 275; p. 92.

Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. Rotary transformer. No. 1,343,026; June 8; v. 275; p. 330.

Bashara, Samuel F., Houston, Tex. Well-cleaner. No. 1,342,618; June 8; v. 275; p. 248.

Basil, Joseph, and F. Girardi, Detroit, Mich. Trolley-signal. No. 1,342,579; June 8; v. 275; p. 242.

Basler, George, assignor to H. W. Becker, Brockton, Mass. Apparatus for cutting heel-lifts. No. 1,343,759; June 15; v. 275; p. 538.

Bassett, George O., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating and sealing composition. No. 1,345,057; June 29; v. 275; p. 920.

Bassett, Harry P., Cynthiana, Ky. Treating distiller's slop. No. 1,344,850; June 29; v. 275; p. 881.

Bassett, Harry P., Cynthiana, Ky. Treating distiller's slop. No. 1,344,851; June 29; v. 275; p. 882.

Bassett, Millard E., Pontiac, Mich. Locking device for motor-vehicles. No. 1,343,609; June 15; v. 275; p. 508.

Bassford, William K. (See MacDowall, John L., assignor.)

Bassham, John W., Columbia, Tenn. Spring-tire. No. 1,344,974; June 29; v. 275; p. 904.

Bassick Manufacturing Company, The. (See Fesler, Andrew, assignor.)

Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)

Bast, Joseph H., Chicago, Ill. Automobile-lock. No. 1,342,151; June 1; v. 275; p. 106.

Bastian Bros. Company. (See Brown, Ernest L., assignor.)

Bastian, Charles L., Chicago, Ill. Hand-operated fire-extinguisher. No. 1,342,580; June 8; v. 275; p. 242.

Batchelder, Frank R. (See Brothers, Horace C., assignor.)

Bates, George E., Syracuse, N. Y. Direction-indicator for vehicles. No. 1,343,904; June 22; v. 275; p. 649.

Batho, William F., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,085; June 1; v. 275; p. 93.

Batson, William G., Los Angeles, Calif. Sanitary cuspidor-bracket. No. 1,342,889; June 8; v. 275; p. 303.

Bauer, Hugo R., and H. F. Reinhold, Clifton, N. J. Take-up stop-motion. No. 1,342,272; June 1; v. 275; p. 130.

Bauer, Martha V., Washington, D. C. Sanitary pad. No. 1,341,875; June 1; v. 275; p. 51.

Baughman, Benjamin F., Columbus, Ohio. Internal-combustion engine. No. 1,343,863; June 15; v. 275; p. 559.

Baum, Edward, Philadelphia, Pa. Ear-drum protector or ear-stopper. No. 1,344,935; June 29; v. 275; p. 897.

Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Feed-water heater. No. 1,342,841; June 8; v. 275; p. 294.

Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,343,956; June 22; v. 275; p. 641.

Baumbach, Harry B. (See Cressler, A. B., Nees, and Baumbach.)

Baumgartner, Charles B., Manchester, Iowa. Fencepost. No. 1,343,543; June 15; v. 275; p. 495.

Baumgartner, Charles B., Manchester, Iowa. Fencepost. No. 1,343,544; June 15; v. 275; p. 495.

Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,344,975; June 29; v. 275; p. 904.

Baxter, William M., assignor, by mesne assignments, to National Refrigerator Car Company, Chicago, Ill. Refrigerating and heating system. No. 1,342,403; June 1; v. 275; p. 154.

Bayer, Charles H. (See Popper, I. C., and Bayer.)

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,343,610; June 15; v. 275; p. 508.

Beach, David S., Bridgeport, Conn. Resilient wheel. No. 1,343,898; June 22; v. 275; p. 630.

Beam, Warren B., Mancelona, Mich. Mop-head. No. 1,344,198; June 22; v. 275; p. 688.

Beamer, Samuel C., Marshalltown, Iowa. Egg-tray. No. 1,344,019; June 22; v. 275; p. 654.

Beamless Car Truck Self-Adjusting Brake Company. (See Hartill-Law, William, assignor.)

Bean, Albert M., Colville, Wash. Portable music-sheet container and turner. No. 1,344,374; June 22; v. 275; p. 723.

Beasley, John H. (See Dunn, W. W., and Beasley.)

Beaton, A. J., Manufacturing Company, The. (See Beaton, Allan J., assignor.)

Beaton, Allan J., assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn. Floor or ceiling plate. No. 1,344,219; June 22; v. 275; p. 692.

Beattey, Earle J. R., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic-lens frame. No. 1,344,474; June 22; v. 275; p. 743.

Beattie Manufacturing Company, The. (See Beattie, Walter J., assignor.)

Beattie, Walter J., assignor to The Beattie Manufacturing Company, Cohoes, N. Y. Oil-guard for sewing-machines. No. 1,344,787; June 29; v. 275; p. 870.

Beaudet, Edmond P., assignor to A. W. Grant, Montreal, Quebec, Canada. Mop-frame. No. 1,344,936; June 29; v. 275; p. 897.

Beaudette, Telesphore. (See Gendreau, Auguste, assignor.)

Beauregard, Charles G. (See Bissell, J. H., and Beauregard.)

Beaver Company, The. (See Robinson, Charles G., assignor.)

Beck, Ellis L., Manor, Pa. Illuminating attachment for telescopes. No. 1,343,074; June 8; v. 275; p. 340.

Beck, Norman F., Kokomo, Ind. Shock-absorber. No. 1,343,027; June 8; v. 275; p. 331.

Beck, Rudolph H. and R. J., Philadelphia, Pa. Toric-lens-grinding machine. No. 1,343,492; June 15; v. 275; p. 484.

Beck, Rudolph J. (See Beck, Rodolph H. and R. J.)

Beck, Williiam O., Ridgefield N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Casing and support for electrical apparatus. No. 1,343,880; June 15; v. 275; p. 562.

Becker, Edmund, administrator. (See Becker, Joseph.)

Becker, Harry W. (See Basler, George, assignor.)

Becker, John, Malvern, Ohio. Pipe-turner. No. 1,343,300; June 15; v. 275; p. 447.

Becker, Joseph, deceased, Washington, D. C.; E. Becker, administrator. Copying or enlarging camera. No. 1,342,735; June 8; v. 275; p. 272.

Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,343,888; June 15; v. 275; p. 564.

Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Copying or enlarging camera. No. 1,343,889; June 15; v. 275; p. 564.

Beckner, Noah J., Yakima, Wash. Lawn-mower. No. 1,344,852; June 29; v. 275; p. 882.

Beckman, Bernard T., Lowell, Ind., and H. J. Beckman, Waukegan, Ill. Chair. No. 1,344,255; June 22; v. 275; p. 699.

Beckman, Edward M., Chesterton, Ind. Household sifter. No. 1,345,058; June 29; v. 275; p. 920.

Beckman, Henry J. (See Beckman, B. T. and H. J.)

Beckwith, Walter C., Fostoria, Ohio. Expansion-bolt. No. 1,342,201; June 1; v. 275; p. 116.

Beebee, Lewis, and F. Bowers, assignors, by mesne assignments, to Diamond Power Specialty Company, Detroit, Mich. Boiler-cleaner. No. 1,343,654; June 15; v. 275; p. 517.

Beehler, William H., Baltimore, Md. Detachable handle construction for parasols, umbrellas, and the like. No. 1,342,820; June 1; v. 275; p. 138.

Behan, Charles D., Stigler, Okla. Well-bucket. No. 1,342,414; June 8; v. 275; p. 209.

Beich, Albert J., Camden, N. J. Power-transmitting belt. No. 1,344,475; June 22; v. 275; p. 743.

Beitner, George L., Bridgeport, Conn. Joint. No. 1,342,979; June 8; v. 275; p. 321.

Belanger, Joseph, Butte, Mont. Traction and antiskidding device for automobiles. No. 1,344,853; June 29; v. 275; p. 882.

Beler, Robert J., Sheridanville, Pa. Immerser for fruit-jars. No. 1,342,321; June 1; v. 275; p. 138.

Belknap, Jane T., Glencoe, Ill. Dish-washing apparatus. No. 1,345,059; June 29; v. 275; p. 920.

Bell, George, Concord Junction, Mass. Yarn-catcher for spinning-machines. No. 1,343,704; June 15; v. 275; p. 527.

Bell, George F., Tulsa, Okla. Wire-line drilling-clamp. No. 1,344,476; June 22; v. 275; p. 743.

Belling, Bernard A., assignor of one-half to C. S. Knaup, Beaver Dam, Wis. Drinking-cup for stock. No. 1,344,750; June 29; v. 275; p. 862.

Bellville, Raymond, *et al.* (See Crays, Oscar M., assignor.)

Belt Grip Pulley Company. (See Finch, Albert E., assignor.)

Bemisderfer, Harvey O. (See Pfeil, E. C., and Bemisderfer.)

Benedict, Charles L., Toronto, Ontario, Canada. Envelop. No. 1,343,675; June 8, v. 275; p. 340.

Benham, William T., Norwood, assignor to The Mosler Lock Company, Cincinnati, Ohio. Key-changing combination-lock. No. 1,341,876; June 1; v. 275; p. 52.

Benjamin, Edward O., Newark, N. J., assignor to International Oxygen Company, New York, N. Y. Electrolytic apparatus. No. 1,344,220; June 22; v. 275; p. 692.

Benjamin, Harry S. (See Perry, Frank R., assignor.)

Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributing machine. No. 1,342,415; June 8; v. 275; p. 210.

Benjestorf, Edward, Fenwood, Saskatchewan, Canada. Antiskid-chain. No. 1,344,477; June 22; v. 275; p. 744.

Bennett, Ashley C., Minneapolis, Minn. Air-cleaning ventilator. No. 1,342,152; June 1; v. 275; p. 106.

Bennett, George H., assignor to Gilbert Gilkes & Company, Limited, Kendal, England. Apparatus for soldering sheet-metal vessels. No. 1,343,493; June 15; v. 275; p. 484.

Bennett, William, Hamilton, Ontario, Canada. Antiglare device for headlights. No. 1,344,164; June 22; v. 275; p. 682.

Benson, Bennett K., Hatton, N. D. Jewelry-setting. No. 1,344,111; June 22; v. 275; p. 671.

Benson, Melvin B., Superior, Wis. Telemotor. No. 1,345,060; June 29; v. 275; p. 920.

Bentel, George R., assignor, by mesne assignments, to Reim-Thompson Co., Los Angeles, Calif. Auxiliary windshield. No. 1,345,061; June 29; v. 275; p. 921.

Bentley, George H., and E. G. Appleby, Westminster, London, England. Gas-generator. No. 1,343,995; June 22; v. 275; p. 649.

Benton, George E., East Hampton, N. Y. Letter-box-closure operator. No. 1,342,890; June 8; v. 275; p. 304.

Beregh, Theodore J., New York, N. Y. Web-tension brake mechanism for printing-presses. No. 1,342,525; June 8; v. 275; p. 231.

Beremand, Preston G., Bay City, Mich. Sectional wheel-rim. No. 1,341,877; June 1; v. 275; p. 52.

Beremand, Preston G., Bay City, Mich. Differential and driving mechanism. No. 1,342,938; June 8; v. 275; p. 313.

Bereznay, John, Throop, Pa. Self-propelled sleigh. No. 1,345,062; June 29; v. 275; p. 921.

Berg, Anton C., White Bear, Minn. Tire-valve. No. 1,344,854; June 29; v. 275; p. 882.

Berg, Olav, *et al.* (See Koch, George, assignor.)

Berger, George O., Philadelphia, Pa. Testing apparatus. No. 1,343,611; June 15; v. 275; p. 508.

Berger, Otto R., assignor to R. J. Bischoff, Chicago, Ill. Cooking utensil. No. 1,341,731; June 1; v. 275; p. 23.

Bergius, Friedrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydrogenating carbon compounds. No. 1,342,790; June 8; v. 275; p. 284.

Berglus, Friedrich, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining light hydrocarbons from heavy hydrocarbons. No. 1,344,671; June 29; v. 275; p. 847.

Bergiann, Christian J., Seattle, Wash. Stove. No. 1,343,341; June 15; v. 275; p. 455.

Bergland, Gunder O., Deerfield, Wis. Journal-box. No. 1,345,063; June 29; v. 275; p. 921.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Quick-acting frame-clamping machine. No. 1,342,891; June 8; v. 275; p. 304.

Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Miter-frame clamp. No. 1,342,892; June 8; v. 275; p. 304.

Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Spike-machine. No. 1,345,064; June 29; v. 275; p. 921.

Bernhard, Albert B., Columbus, Ohio. Internal-combustion engine. No. 1,345,065; June 29; v. 275; p. 921.

Bernz, Otto, Newark, N. J. Cleaner for blow-torch nozzles and the like. No. 1,343,705; June 15; v. 275; p. 527.

Berry, Clarence C., Valley Park, Mo. Airship. No. 1,343,428; June 15; v. 275; p. 472.

Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Shaker-screen. No. 1,344,751; June 29; v. 275; p. 862.

Berryhill, Samuel A., and I. W. Woolley, Charlotte, N. C. Automobile-lock. No. 1,343,807; June 15; v. 275; p. 547.

Bersin, Albert, Brooklyn, and E. Scheyer, New York, N. Y. Embroidering-machine. No. 1,344,611; June 29; v. 275; p. 835.

Bessett, Elmer E., Waterloo, Quebec, Canada. Mop. No. 1,344,112; June 22; v. 275; p. 671.

Best, John H., Camp Cody, N. Mex. Wire-stretcher. No. 1,345,510; June 29; v. 275; p. 969.

Best, William N., assignor of one-fourth to C. Wupper, Brooklyn, N. Y. Signal-lamp. No. 1,343,899; June 22; v. 275; p. 630.

Betchel, George W., Spokane, Wash. Swimming appliance. No. 1,342,619; June 8; v. 275; p. 249.

Bethlehem Steel Company. (See Sullivan, F. A., and Lukens, assignors.)

Betts, Albert R., and P. J. Goke, assignors to The Cincinnati Coffin Company, Cincinnati, Ohio. Casket-handle. No. 1,344,855; June 29; v. 275; p. 882.

Betz, Charles A., Jersey City, N. J. Sheet-metal door or partition construction. No. 1,343,545; June 15; v. 275; p. 495.

Betz, William G., Buffalo, N. Y., assignor to Straube Piano Company, Hammond, Ind. Music-roll-controlling mechanism. No. 1,344,574; June 22; v. 275; p. 763.

Beust, Cecil J. (See Bubar, H. H., and Beust.)

Bevan, Alexander, Providence, R. I. Envelop-sealer. No. 1,344,875; June 22; v. 275; p. 723.

Bickel, Frederick L., Ivyland, Pa. Apparatus for drying hosiery and the like. No. 1,344,612; June 29; v. 275; p. 836.

Bickel, Frederick L., Ivyland, Pa. Dyeing-machine. No. 1,344,788; June 29; v. 275; p. 870.

Bickhart, Franklin R., assignor to A. H. Lyons, Philadelphia, Pa. Battery-grid. No. 1,343,957; June 22; v. 275; p. 642.

Biddle, Benjamin J., Montville, N. J. Removable bottom for cooking utensils. No. 1,345,119; June 29; v. 275; p. 932.

Biedenkopf, Edward J. (See Johnson, L. D., and Biedenkopf.)

Bielitz, Frederick W., Jersey City, N. J. Safety device for use in cleaning windows. No. 1,343,546; June 15; v. 275; p. 495.

Bilfex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)

Big Indian Copper Company, *et al.* (See Christensen, Niels C., assignor.)

Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,028; June 8; v. 275; p. 331.

Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,029; June 8; v. 275; p. 331.

Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,030; June 8; v. 275; p. 331.

Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)

Bijur Motor Appliance Company. (See Woolsson, Lionel M., assignor.)

Bilello, Thomas W., Long Island City, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-cutting die. No. 1,343,383; June 15; v. 275; p. 463.

Billington, John E., Broadheath, assignor to Linotype and Machinery Limited, London, England. Magazine of typographical composing and casting machines. No. 1,342,980; June 8; v. 275; p. 321.

Bills, George M., Battle Creek, Mich. Fastener. No. 1,343,301; June 15; v. 275; p. 447.

Bird, Emerson R., Seattle, Wash. Jack. No. 1,344,575; June 22; v. 275; p. 763.

Birkenmaier, Theodore, St. Louis, Mo. Water-controlling mechanism for laundry-tubs. No. 1,345,311; June 29; v. 275; p. 970.

Birrell, James. (See Birrell, William, and J.)

Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,341,837; June 1; v. 275; p. 44.

Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,342,581; June 8; v. 275; p. 243.

Birrell, William and J., assignors to The Audible Telephone Company, Chicago, Ill. Telephone-transmitter. No. 1,342,582; June 8; v. 275; p. 243.

Bischoff, Raymond J. (See Berger, Otto R., assignor.)

Bishop, Alfred J., Burswood, Western Australia, Australia. Combined hand-truck and scale. No. 1,342,246; June 1; v. 275; p. 125.

Bishop, Arthur P., *et al.* (See Bishop, Peter A., assignor.)

Bishop, Peter A., assignor of one-half to himself and one-half to A. P. Bishop, Fall River, Mass. Tension device. No. 1,344,672; June 29; v. 275; p. 847.

Bishop, Samuel H. (See Slye, J. Q., and Bishop.)

Bissell, Harry C., and J. G. Chase, Tacoma, Wash. Ladder. No. 1,342,153; June 1; v. 275; p. 106.

Bissell, James H., and C. G. Beauregard, Troy, N. Y. Feed-regulator for road-sanding machines. No. 1,345,120; June 29; v. 275; p. 952.

Bittinger, Charles, Duxbury, Mass. Combining reflected and transmitted light-waves of varying lengths to produce subjective changes in scenic effects. No. 1,342,247; June 1; v. 275; p. 125.

Bittner, Emil R., Victoria, Tex. Liquid-fuel burner. No. 1,342,526; June 8; v. 275; p. 231.

Bjornlie, Julius, assignor to Bjornlie Manufacturing Company, Watertown, S. D. Tire-tool. No. 1,343,893; June 22; v. 275; p. 629.

Bjornlie Manufacturing Company. (See Bjornlie, Julius, assignor.)

Blache, Hans H., Hellerup, near Copenhagen, Denmark. Lubricating system for internal-combustion engines. No. 1,342,273; June 1; v. 275; p. 130.

Blache, Hans H., Hellerup, near Copenhagen, Denmark. Bed for vertical internal-combustion engines. No. 1,342,939; June 8; v. 275; p. 313.

Black, Josiah, deceased, Lansing, Mich.; S. D. Kelley administrator. Gasolene-dispensing device. No. 1,344,478; June 22; v. 275; p. 744.

Black, Lee J., Beaumont, Tex. Rotary drilling-machine. No. 1,341,702; June 1; v. 275; p. 18.

Black, William A., assignor to The Simplex Auto Wheel Company, Spokane, Wash. Resilient wheel. (Reissue.) No. 14,900; June 29; v. 275; p. 975.

Black, William J., Chicago, Ill. Automatic transfer for dump-cars. (Reissue.) No. 14,901; June 29; v. 275; p. 975.

Blackburn, Emery D., San Francisco, Calif. Hose-clamp. No. 1,344,433; June 22; v. 275; p. 735.

Blackburn, Jasper, Webster Groves, Mo. Expanding screw-anchor. No. 1,343,384; June 15; v. 275; p. 464.

Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Lock for automobile-steering devices. No. 1,343,192; June 15; v. 275; p. 427.

Blackburn Patent Steering Wheel Company, The. (See Blackburn, Jasper, assignor.)

Blackburn, Thomas J. (See Horvath, L., and Blackburn.)

Blackman, Zachary T., Long Beach, Miss. Combination hoe and spade. No. 1,344,256; June 22; v. 275; p. 699.

Blackmon, Benjamin F. (See Gist, Roger, assignor.)

Blackstone International Corporation. (See Pine, James A. W., assignor.)

Blackstone Manufacturing Company. (See More, Glenn, assignor.)

Blaich, Alfred O., Company. (See Ferguson, T. R., and Larson, assignors.)

Blain, George A., and J. Scherer, Long Lake, Minn. Exhaust-muffler. No. 1,344,976; June 29; v. 275; p. 904.

Blake, William F., Toledo, Ohio. Clothes-washing machine. No. 1,345,312; June 29; v. 275; p. 970.

Blaw-Knox Company. (See Venable, William M., assignor.)

Bleach Process Company. (See Wheeler, Frank G., assignor.)

Bleecker, George W., *et al.*, trustees. (See Goodwin, Charles, assignor.)

Blessing, John G., Chicago, Ill., assignor to Automatic Electric Company. Phonographic time-announcer. No. 1,343,302; June 15; v. 275; p. 447.

Blewer, Fred, Port Blakely, Wash. Log-rafting apparatus. No. 1,343,429; June 15; v. 275; p. 472.

Blewett, Arthur R., assignor to Blewett Tractor Company, Tacoma, Wash. Tractor-belt. No. 1,343,958; June 22; v. 275; p. 642.

Blewett Tractor Company. (See Blewett, Arthur R., assignor.)

Bliss, George H., assignor to A. G. Bradish & Son, Inc., Boston, Mass. Cover-fastener. No. 1,344,576; June 22; v. 275; p. 763.

Block, Alexander, New York, N. Y. Lock. No. 1,344,613; June 29; v. 275; p. 836.

Block, John F., Knoxville, Ill. Hog catcher and turner. No. 1,342,893; June 8; v. 275; p. 304.

Block, Otto B., assignor of one-fourth to C. E. Hoke, Shippensburg, Pa. Folding bed, dresser, and washstand. No. 1,344,257; June 22; v. 275; p. 699.

Bloomquist, Ernest V., Minneapolis, Minn. Photo-sticker. No. 1,342,248; June 1; v. 275; p. 125.

Bluege, Adam, Chicago, Ill. Bundle or package tying machine. No. 1,342,981; June 8; v. 275; p. 321.

Boa, Robert G. C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,344,434; June 22; v. 275; p. 735.

Bodman, Walter L., Bromsgrove, England. Tractor. No. 1,342,791; June 8; v. 275; p. 284.

Boehck, William E., assignor to Revolvator Company, Jersey City, N. J. Tiering-machine. No. 1,342,982; June 8; v. 275; p. 321.

Bogaty, Hermann. (See Palen, W. D., and Bogaty.)

Boisselier, Félix F., Colombes, France. Solder for aluminium. No. 1,344,165; June 22; v. 275; p. 682.

Bolden, George W., Philadelphia, Pa. Trolley-guide box and shield. No. 1,341,878; June 1; v. 275; p. 52.

Bolger, Robert S., Richmond Hill, assignor to International Motor Company, New York, N. Y. Generator set. No. 1,343,494; June 15; v. 275; p. 485.

Bolton, John T., assignor of one-half to The Forsyth Dyeing Co., New Haven, Conn. Web stretching and guiding device. No. 1,343,385; June 15; v. 275; p. 464.

Bomberg, Julius E., Detroit, Mich. Molding-machine. No. 1,343,386; June 15; v. 275; p. 464.

Bone, Roberto C., Managua, Nicaragua, assignor of one-half to Esteva-Ruiz & Co., New York, N. Y. Substitute for turpentine and making same. No. 1,343,387; June 15; v. 275; p. 464.

Bonebright, Gertrude R., Grand Rapids, Mich. Garment-supporter. No. 1,344,856; June 29; v. 275; p. 882.

Bonham, Guy L., West Hartford, Conn. Car-mover. No. 1,343,430; June 15; v. 275; p. 472.

Booth, James, Philadelphia, Pa. Machine for covering wire with fibrous material. No. 1,343,076; June 8; v. 275; p. 340.

Borbeck, Martin, assignor to Houston Fountain Pen Company, Sioux City, Iowa. Fountain-pen. No. 1,342,736; June 8; v. 275; p. 272.

Borbeck, Martin O., Sioux City, Iowa. Lead-pencil. No. 1,342,416; June 8; v. 275; p. 210.

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borger, Henry E., assignor to Spiltdorf Electrical Company, Newark, N. J. Mounting for dynamo-brushes. No. 1,342,583; June 8; v. 275; p. 243.

Borgner, Conrad W., Lowville, N. Y. Sanitary closure for bottles. No. 1,343,760; June 15; v. 275; p. 538.

Born, Louis A., Washington, D. C. Engine. No. 1,343,612; June 15; v. 275; p. 508.

Bosch, Carl, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of urea and intermediate products. No. 1,344,673; June 29; v. 275; p. 847.

Bossu, Pierre Neuilly-sur-Seine, France. Gear-coupling. No. 1,343,031; June 8; v. 275; p. 331.

Boston Scale and Machine Co. (See Emery, F. A., and Adams, assignors.)

Boston Scale and Machine Co. (See Foote, Theodore M., assignor.)

Bottone, Victor R., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Punching-machine. No. 1,344,435; June 22; v. 275; p. 735.

Boulanger, Frank D., West Hoboken, N. J. Flash-light. No. 1,342,322; June 1; v. 275; p. 138.

Boulton, George, and G. J. Gorsuch, Rochester, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Seam-ironing machine. No. 1,342,417; June 8; v. 275; p. 210.

Bourcoud, Agustin E., Chicago, Ill. Method of and apparatus for reducing metallic oxids. No. 1,344,977; June 29; v. 275; p. 904.

Bourne, James D., Stuttgart, Ark. Baseball-game apparatus. No. 1,341,628; June 1; v. 275; p. 3.

Bourne, Theodore F., Upper Montclair, N. J. Priming means for internal-combustion engines. No. 1,343,547; June 15; v. 275; p. 496.

Bovey, Thomas, Chicago, Ill. Vehicle-heater. No. 1,341,879; June 1; v. 275; p. 52.

Bowden, Charles L., Chicago, Ill. Two-cycle engine. No. 1,341,838; June 1; v. 275; p. 44.

Bowen, James M., Cape May Court House, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,343,303; June 15; v. 275; p. 447.

Bower, Frank A., Brooklyn, assignor to C. D. Schmidt, Jamaica, N. Y. Antiskid-chain. No. 1,342,086; June 1; v. 275; p. 93.

Bowers, Arthur F., Milwaukee, Wis. Door-operating mechanism. No. 1,341,775; June 1; v. 275; p. 32.

Bowers, Frank. (See Beebee, L., and Bowers.)

Bowersox, Joseph W., Louisville, Ky., assignor of one-half to A. W. Moore, Pittsburgh, Pa. Mattress-tufting machine. No. 1,344,605; June 22; v. 275; p. 769.

Bowlen, William C., Holyoke, Mass. Plane. No. 1,342,154; June 1; v. 275; p. 106.

Bowman, Edwin L., Gardner, assignor to C. A. Schmitz, West Medford, Mass. Puzzle. No. 1,342,706; June 8; v. 275; p. 266.

Bowman, Levi M., assignor of one-half to W. A. Smith, Tulsa, Okla. Casket. No. 1,344,674; June 29; v. 275; p. 847.

Bowman, Newton K. (See Dillon, James F., assignor.)

Bowman, Wade W., New York, N. Y. Demountable rim. No. 1,345,313; June 29; v. 275; p. 970.

Boyce, Malcolm B., Haverhill, Mass. Autographic attachment for cameras. No. 1,342,155; June 1; v. 275; p. 106.

Boyd, James H., assignor to Whitin Machine Works, Whitinsville, Mass. Yarn-tension. No. 1,343,388; June 15; v. 275; p. 464.

Boyd, William J. (See Fleckl, H., and Boyd.)

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,776; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,777; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,778; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,779; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,780; June 1; v. 275; p. 33.

Boyden, George A., Jr., and J. C., Baltimore, Md. Railway-car truck. No. 1,341,781; June 1; v. 275; p. 34.

Boyden, John C. (See Boyden, George A., Jr., and J. C.)

Boyer, Jesse I., Reading, Pa. Top cap for sugar-mill housings. No. 1,344,287; June 22; v. 275; p. 706.

Boyle, Bernard J. (See Royer, Edwin C., assignor.)

Boysen, Iwer, New York, N. Y. Retouching-screen. No. 1,343,613; June 15; v. 275; p. 509.

Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Excess-voltage protective device. No. 1,345,066; June 29; v. 275; p. 922.

Bradford, George M., and J. E. Broadhead, Bay City, Mich. Recovering by-products from waste liquors. No. 1,342,737; June 8; v. 275; p. 272.

Bradish, A. G., & Son. (See Bliss, George H., assignor.)

Bradley, Joseph B., Miami, Fla. Hinge. No. 1,344,479; June 22; v. 275; p. 744.

Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Orifice-precipitator. No. 1,344,330; June 22; v. 275; p. 714.

Bradley, Thomas. (See McDowell, Albert, assignor.)

Bradshaw, Grant D., Pittsburgh, Pa. Gas-valve. No. 1,342,620; June 8; v. 275; p. 249.

Brahtz, John H. A., St. Paul, Minn. Grain-elevator. No. 1,342,418; June 8; v. 275; p. 210.

Braile, Frank E., Shamrock, Okla. Adjustable follower-block for oil drilling and pumping rigs. No. 1,341,968; June 1; v. 275; p. 70.

Bramwell-Ragen Corporation. (See Gunderson, Julius, assignor.)

Brancel, Orville M. (See Peterson, O. A., and Brancel.)

Branham, Oscar S., Roswell, N. Mex. Weather-strip. No. 1,343,304; June 15; v. 275; p. 447.

Braun, John E., San Lorenzo, Calif. Pipe-clamp. No. 1,343,548; June 15; v. 275; p. 496.

Brasler, William H., Corpus Christi, Tex. Razor. No. 1,343,900; June 22; v. 275; p. 630.

Brasted, Clair H., East Cleveland, Ohio, assignor, by mesne assignments, to Ludlow Typograph Company, Chicago, Ill. Method of and apparatus for forming metal strips. No. 1,344,577; June 22; v. 275; p. 763.

Bray, Charles E., Monroe, Iowa. Disk-sharpener. No. 1,343,342; June 15; v. 275; p. 455.

Breen, Michael J., Louisville, Ky. Tool-holder. No. 1,342,983; June 8; v. 275; p. 322.

Brendle, Frank F., assignor of one-third to Roy C. Carruthers and one-third to M. Carruthers, Salina, Kans. Direction-indicator for vehicles. No. 1,343,761; June 15; v. 275; p. 538.

Brenkert, Joseph W., San Diego, Calif. Lemon-juice extractor. No. 1,344,857; June 29; v. 275; p. 883.

Brennan, John S., Milwaukee, Wis. Fuel-reservoir. No. 1,343,343; June 15; v. 275; p. 455.

Brenner, Lupu W., Detroit, Mich. Puppet-valve. No. 1,342,419; June 8; v. 275; p. 211.

Brenner, Richard M., Palisade, N. J. Race-game apparatus. No. 1,344,480; June 22; v. 275; p. 744.

Brenner, William C. Tumwater, assignor of one-half to R. Clayton, Olympia, Wash. Rail-bond punch. No. 1,343,901; June 22; v. 275; p. 630.

Brent, Sprigg Covington, Ky. Burial-casket handle. No. 1,345,314; June 29; v. 275; p. 970.

Bretholl, C. F. (See Huneycutt, Charles F., assignor.)

Breuckman, Franklin C., and G. T. Arnold, Mackinac Island, Mich. Carriage-return mechanism for typewriters. No. 1,342,940; June 8; v. 275; p. 313.

Breul, Richard A., Bridgeport, Conn. Doorknob. No. 1,341,969; June 1; v. 275; p. 70.

Brewster, Elmer J. (See Murrin, J., and Brewster.)

Brichacek, Anton E., Clarkson, Nebr. Attachment for manure-spreaders. No. 1,342,249; June 1; v. 275; p. 125.

Brick, Samuel E., Salina, Kans. Book or pad. No. 1,341,782; June 1; v. 275; p. 34.

Bridgwater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,941; June 8; v. 275; p. 314.

Brinton, H., Company. (See Ames, Elmer C., assignor.)

British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)

Brittain, Robert O., Boston, Mass. Dental educational device. No. 1,342,156; June 1; v. 275; p. 107.

Broadhead, James E. (See Bradford, G. M., and Broadhead.)

Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling apparatus. No. 1,344,166; June 22; v. 275; p. 682.

Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Gage or gate mechanism. No. 1,344,167; June 22; v. 275; p. 682.

Brock, Frank P. (See Redman, L. V., Welth, and Brock.)

Brock, John O., Wilmington, N. C. Auxiliary valve for internal-combustion engines. No. 1,344,614; June 29; v. 275; p. 836.

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,341,732; June 1; v. 275; p. 24.

Brodin, Ewald E., *et al.* (See Brodin, John A., assignor.)

Brodin, John A., assignor of one-third to E. E. Brodin and one-third to N. V. Christensen, Chicago, Ill. Radiator-cover. No. 1,344,376; June 22; v. 275; p. 723.

Brodrene Sundt, Vaerktöimaskinfabrik A/S. (See Sundt, Andreas, assignor.)

Bronstein, Jesse B., and C. E. Waller, Allentown, Pa., assignors to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. No. 1,343,077; June 8; v. 275; p. 341.

Brookfield, Douglas. (See Gaunt, J., and Brookfield.)

Brophy, John P., Cleveland Heights, Ohio. Automatic machine. No. 1,343,344; June 15; v. 275; p. 455.

Brosch, Charles D., Duquoin, Ill. Guard for pick-handles. No. 1,342,495; June 8; v. 275; p. 225.

Brostrom, Carl F., Minneapolis, Minn. Air-temperature regulator for gas-engines. No. 1,344,615; June 29; v. 275; p. 836.

Brothers, Horace C., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven carrier. No. 1,344,377; June 22; v. 275; p. 724.

Brower, Harry E. (See Crim, J. E., and Brower.)

Brown & Bigelow. (See Harris, Blaine H., assignor.)

Brown, Carl E. Columbus, Ohio. Oil-burner. No. 1,344,978; June 29; v. 275; p. 905.

Brown, Charles F., Greeneville, Tenn. Machine for sharpening lawn-mower blades. No. 1,344,168; June 22; v. 275; p. 682.

Brown, Ernest L., assignor to Bastian Bros. Company, Rochester, N. Y. Toy umbrella. No. 1,345,067; June 29; v. 275; p. 922.

Brown, Harold, assignor to Reynolds Engineering Company, Moline, Ill. Machine for cutting strips of cloth. No. 1,342,621; June 8; v. 275; p. 249.

Brown, Harold W., Ithaca, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electrical relay. No. 1,341,629; June 1; v. 275; p. 3.

Brown, Herman, Chicago, Ill. Pocket for garments. No. 1,344,075; June 22, v. 275; p. 665.

Brown, J. Grove, Kingston, N. Y. Car-unloader. No. 1,345,121; June 29; v. 275; p. 932.

Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,343,345; June 15; v. 275; p. 456.

Brown, Lloyd, Los Angeles, Calif., assignor to L. Brown and A. Graydon, trustees. Motion-picture kinetograph and exposing films. No. 1,344,616; June 29; v. 275; p. 836.

Brown, Louis H. (See O'Donnell, John, Jr., assignor.)

Brown-McLaren Manufacturing Co. (See Vis, George A., assignor.)

Brown, Margaret J., executrix. (See Brown, Perry.)

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Draft-rigging. No. 1,344,979; June 29; v. 275; p. 905.

Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Draft-rigging. No. 1,344,980; June 29; v. 275; p. 905.

Brown, Perry, deceased, Coraopolis, Pa.; Margaret J. Brown, executrix. Draft-rigging. No. 1,344,981; June 29; v. 275; p. 905.

Brown, Robert E., Olean, N. Y. Combination toilet article. No. 1,343,959; June 22; v. 275; p. 642.

Brown, Robert F., Detroit, Mich. Oil-filtering attachment for internal-combustion engines. No. 1,344,982; June 29; v. 275; p. 905.

Brown, Roy E., assignor of one-third to G. A. Albright, Portland, Oreg. Lock. No. 1,342,157; June 1; v. 275; p. 107.

Browning, Alfred G., South Norwood, London, England. Pump or the like. No. 1,342,087; June 1; v. 275; p. 93.

Browning, John B., Camden, N. J. Spring-motor. No. 1,345,122; June 29; v. 275; p. 933.

Bruck, Henry, Portland, Oreg. Reinforcement for the shank edges of shoe-taps. No. 1,341,880; June 1; v. 275; p. 52.

Brumfield, James H., assignor of one-half to E. C. Ferrell, Armor, W. Va. Rail-spike. No. 1,342,661; June 8; v. 275; p. 257.

Brumme, Frank J., Cooksville, Ill. Automatic governor. No. 1,343,808; June 15; v. 275; p. 548.

Brun-Mill Company. (See Miller, Melville A., assignor.)

Bruner, George E., Los Angeles, Calif. Game. No. 1,344,983; June 29; v. 275; p. 906.

Brunt Tile and Porcelain Company, The. (See McKnight, Oscar W., assignor.)

Brush, Howard R. (See Spohr, John, assignor.)

Bryant, Augustus H., Glen Ridge, N. J. Safety-razor. No. 1,342,370; June 1; v. 275; p. 147.

Bryant, Corwin W., Minneapolis, Minn. Sterilizer. No. 1,345,123; June 29; v. 275; p. 933.

Bryant Electric Company, The. (See Thomas, George B., assignor.)

Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel. No. 1,342,622; May 8; v. 275; p. 249.

Bryce, Clarence H., Glen Ridge, N. J., assignor to Benjamin Moore & Co., Brooklyn, N. Y. Sound-absorbing coating. No. 1,341,704; June 1; v. 275; p. 18.

Buhar, Hudson H., and C. J. Beust, Brooklyn, N. Y. Mechanical mixer and drier. No. 1,344,675; June 29; v. 275; p. 848.

Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top. No. 1,342,012; June 1; v. 275; p. 78.

Buchanan, Isaac W. P., Lebanon, Tenn. Sterilizing apparatus. No. 1,343,108; June 8; v. 275; p. 347.

Buchanan, Stewart H., Beaumont, Tex. Coaling device. No. 1,344,481; June 22; v. 275; p. 744.

Buchman, Vernon L., Millers, Md. Resilient tire. No. 1,342,158; June 1; v. 275; p. 107.

Buck, Landon A., Cooper, Tex. Rail joint and brace. No. 1,343,323; June 1; v. 275; p. 139.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckheim, Max L., Brooklyn, N. Y. Pocket accounting device. No. 1,342,707; June 8; v. 275; p. 266.

Buckingham, Robert, Huntington, Ind. Belt-cutter. No. 1,344,169; June 22; v. 275; p. 682.

Buckius, Edward M., Los Angeles, Calif. Collapsing tap. No. 1,344,113; June 22; v. 275; p. 672.

Buckley, William J., East Orange, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Magnetic-flame welding-machine. No. 1,343,346; June 15; v. 275; p. 456.

Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Flame-welding machine. No. 1,341,839; June 1; v. 275; p. 45.

Buell, Benjaman J., Reading, Pa. Car-wheel skid-shoe. No. 1,343,614; June 15; v. 275; p. 509.

Buell, William C., Jr., assignor to Tate-Jones & Co. Inc., Pittsburgh, Pa. Heating-furnace. No. 1,344,436; June 22; v. 275; p. 735.

Buell, William C., Jr., Osborne borough, Pa., assignor to Tate-Jones & Co., Inc., Pittsburgh, Pa. Heating-furnace. No. 1,344,437; June 22; v. 275; p. 736.

Buell, William C., Jr., Osborne borough, Pa., and J. W. Griswold, Toledo, Ohio, assignors to Henry L. Doherty and Company, New York, N. Y. Heating-furnace. No. 1,344,438; June 22; v. 275; p. 736.

Buffalo Forge Company. (See Criqui, Albert A., assignor.)

Bufton, Frank H. (See Ott, H. N., and Bufton.)

Bugbee, Coy M., Springfield, Vt. Tongue-depressor. No. 1,344,020; June 22; v. 275; p. 654.

Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Illuminating apparatus. No. 1,342,894; June 8; v. 275; p. 305.

Bull, Anders, Chicago, Ill. Acoustic signaling method. No. 1,342,584; June 8; v. 275; p. 243.

Bull, Frank W., Oshawa, Ontario, Canada. Player-piano. No. 1,344,984; June 29; v. 275; p. 906.

Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Piping. No. 1,343,706; June 15; v. 275; p. 527.

Buller Coupler Company. (See Buller, Jacob W., assignor.)

Buller, Jacob W., assignor to Buller Coupler Company, Inc., Hillsboro, Kans. Draft-coupling. No. 1,344,482; June 22; v. 275; p. 745.

Bullowa, Ernest E. M., New York, N. Y. Protector for trousers. No. 1,341,733; June 1; v. 275; p. 24.

Bunn, Percy L. (See Thompson, H. E., and Bunn.)

Burch, Willie Lowell, assignor of one-third to A. Marley and one-third to F. Halpin, Grand Rapids, Mich. Railway-tie. No. 1,344,676; June 29; v. 275; p. 848.

Burdick, Charles A., Kenosha, Wis. Ink-bottle attachment. No. 1,343,960; June 22; v. 275; p. 642.

Burger, William A., and W. Gross, San Francisco, Calif. Spring-wheel. No. 1,344,483; June 22; v. 275; p. 745.

Burgess Battery Company. (See Schulte, Walter B., assignor.)

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Shock-hoist. No. 1,345,068; June 29; v. 275; p. 922.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Shock-hoist. No. 1,345,069; June 29; v. 275; p. 922.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-harvester. No. 1,345,070; June 29; v. 275; p. 922.

Burgess, Edward W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Storage-building. No. 1,344,617; June 29; v. 275; p. 837.

Burke, Charles R., Tulsa, Okla. Making petrol or gasolene. No. 1,344,258; June 22; v. 275; p. 700.

Burke, James P., Struthers, Ohio. Fastener. No. 1,342,738; June 8; v. 275; p. 272.

Burkhart, A. C., *et al.* (See Jochumsen, J., and Netcott, assignors.)

Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Compound pneumatic impact-tool. No. 1,344,170; June 22; v. 275; p. 683.

Burnett, Charley, assignor of one-fourth to H. G. Coffman and one-fourth to L. C. Coffman, Washington Courthouse, Ohio. Hog-feeder. No. 1,344,789; June 29; v. 275; p. 870.

Burnett, Rex C., Raleigh, Ill. Heater for carbureters. No. 1,344,021; June 22; v. 275; p. 654.

Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. No-voltage release attachment for electric switches. No. 1,343,961; June 22; v. 275; p. 642.

Burns, Archibald E. (See Friendly, Herbert M., and Burns.)

Burns, Robert L., Taft, assignor of one-half to C. E. Stratton, Los Angeles, Calif. Drill-stem. No. 1,344,221; June 22; v. 275; p. 693.

Burns, Walter G., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Dispensing-pump. No. 1,344,985; June 29; v. 275; p. 906.

Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)

Burrows, Sidney V., Chicago, Ill. Worm-press. No. 1,344,790; June 29; v. 275; p. 870.

Burry, Vincent J., assignor to Joliet Railway Supply Company, Chicago, Ill. Side bearing for cars. No. 1,344,858; June 29; v. 275; p. 883.

Burry, Vincent J., assignor to Joliet Railway Supply Company, Chicago, Ill. Side bearing for cars. No. 1,344,859; June 29; v. 275; p. 883.

Burton, Isaac F., Philadelphia, Pa. Friction-support for ills. No. 1,343,347; June 15; v. 275; p. 456.

Burton, William M. (See Humphreys, R. E., and Burton.)

Busch-Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)

Busch-Sulzer Bros.-Diesel Engine Company. (See Müller, Jakob, assignor.)

Bush, Vannevar, assignor to American Radio & Research Corporation, Medford, Mass. Transformer. No. 1,342,250; June 1; v. 275; p. 125.

Buss, Adolph W., Quincy, Ill. Interchangeable road-sign. No. 1,343,247; June 15; v. 275; p. 437.

Buss, Charles and I. C. W., Pittsburgh, Pa. Railway-tie. No. 1,342,420; June 8; v. 275; p. 211.

Buss, Ivan C. W. (See Buss, Charles and I. C. W.)

Buswell, Walter, assignor to Stokes & Smith Company, Philadelphia, Pa. Box-covering blank. No. 1,343,193; June 15; v. 275; p. 428.

Butler, Nathan C., Cleveland, Ohio. Measuring device. No. 1,345,071; June 29; v. 275; p. 923.

Butler, Ward, Chicago, Ill. Bomb-throwing machine. No. 1,344,378; June 22; v. 275; p. 724.

Byerly, Dennis A., Terre Haute, Ind. Electric-light switch. No. 1,343,109; June 8; v. 275; p. 347.

Bygrave, Leonard C., and T. M. Inman, assignors to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,342,792; June 8; v. 275; p. 284.

Byrd, Gordon W., Dallas, Tex. Peanut-harvester. No. 1,345,315; June 29; v. 275; p. 970.

Byrne, John, San Quentin, Calif., assignor of one-half to C. Hudson, St. Louis, Mo. Safety-lock for bottles or the like. No. 1,343,962; June 22; v. 275; p. 642.

Byron, Riley J., Mount Vernon, Ind. Guide-roll for paper-machines. No. 1,344,171; June 22; v. 275; p. 683.

Cable, Grover C., Long Beach, Calif. Block-making machine. No. 1,344,860; June 29; v. 275; p. 883.

Cadgene, Ernest, *et al.* (See Koch, George, assignor.)

Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)

Cady, Charles N., Canastota, N. Y. Shaft-hanger gearing. No. 1,344,439; June 22; v. 275; p. 736.

Cahill, John, Norfolk, Va. Venetian blind. No. 1,342,527; June 8; v. 275; p. 231.

Calderwood, James W., Washington, D. C. Cornet. No. 1,343,883; June 15; v. 275; p. 563.

Caldes, Constantine, Jersey City, N. J. Shoe-shining machine. No. 1,343,032; June 8; v. 275; p. 332.

Caldwell, Clifford A., Pittsburgh, Pa. Steering-rod for automobiles. No. 1,343,305; June 15; v. 275; p. 448.

Caldwell, William W. (See Wild, J. E., and Caldwell.)

Calhoun, John W., Chester, Pa. Meter connection and controlling means. No. 1,345,124; June 29; v. 275; p. 933.

California Alkali Company. (See Hirschkind, Wilhelm, assignor.)

Callahan, John F., deceased, Scotia, N. Y.; Sarah D. Callahan administratrix. Hand-truck. No. 1,342,585; June 8; v. 275; p. 243.

Callahan, Sarah D., administratrix. (See Callahan, John F.)

Callen, Edward D., Greenville, Miss. Excavator. No. 1,342,895; June 8; v. 275; p. 305.

Camell, Philip, Wilmington, Del. Adjustable switch-point rail-section. No. 1,344,259; June 22; v. 275; p. 700.

Cameron, Duncan, Minnedosa, Manitoba, Canada. Vehicle-tongue. No. 1,345,125; June 29; v. 275; p. 933.

Cammen, Leon, New York, N. Y., and A. W. Ofeldt, Weehawken, N. J., assignors to Northwind Spark Plug Corporation, New York, N. Y. Spark-plug. No. 1,344,172; June 22; v. 275; p. 683.

Camp, James H., Ravenswood, W. Va. Combined advance-discount voucher-check, order, and commercial letter. No. 1,343,110; June 8; v. 275; p. 347.

Campbell, Alston G., Volga, W. Va. Chicken-coop. No. 1,342,371; June 1; v. 275; p. 148.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging materials from railway-cars. No. 1,342,088; June 1; v. 275; p. 93.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,089; June 1; v. 275; p. 93.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,342,090; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging materials from railway-cars or other similar containers. No. 1,342,091; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Means for discharging grain and similar materials from cars or other containers. No. 1,342,092; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-operating mechanism. No. 1,342,093; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Grain-car. No. 1,342,094; June 1; v. 275; p. 94.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. No. 1,342,095; June 1; v. 275; p. 95.

Campbell, Daniel, Baltimore, Md. Paint composition. No. 1,344,861; June 29; v. 275; p. 883.

Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Reducing-mill. (Reissue.) No. 14,886; June 22; v. 275; p. 770.

Campbell, James C., New York, N. Y. Vacuum pneumatic hammer. No. 1,342,984; June 8; v. 275; p. 322.

Campbell, Jesse T., Elbridge, Tenn. Sanitary churn. No. 1,344,022; June 22; v. 275; p. 654.

Campbell, John A., Carbondale, Ill. Door-spring. No. 1,343,033; June 8; v. 275; p. 332.

Camporini, August, and J. Rena, Chicago, Ill. Spark-plug changer. No. 1,343,348; June 15; v. 275; p. 456.

Candy, Albert M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,194; June 15; v. 275; p. 428.

Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Method and means for controlling electric circuits. No. 1,344,260; June 22; v. 275; p. 700.

Cantrell, Lee E., Nashville, Tenn. Lock. No. 1,344,484; June 22; v. 275; p. 745.

Cantrell, Marvin L., Pueblo, Colo. Kiddie-coaster. No. 1,344,023; June 22; v. 275; p. 654.

Canty, Patrick M., Altoona, Pa. Flue-extractor. No. 1,343,431; June 15; v. 275; p. 473.

Caples, Russell B. (See Elton, J. O., and Caples.)

Carahum, Stanley, Melrose Park, Ill. Key-guard. No. 1,343,615. June 15; v. 275; p. 509.

Carey, Ida N., Tuscarora, Nev. Rail tie and fastening. No. 1,345,126; June 29; v. 275; p. 933.

Carey, James A., assignor to Standard Stoker Company, Inc., New York, N. Y. Automatic stoking mechanism. No. 1,344,578; June 22; v. 275; p. 764.

Carey, Philip, Manufacturing Company, The. (See Moeller, William J., assignor.)

Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,342,096; June 1; v. 275; p. 95.

Carlsen, Eugene S., Chicago, Ill. Hair-clipper. No. 1,342,097; June 1; v. 275; p. 95.

Carlson, Albert H., Butte City, Calif. Resilient wheel. No. 1,344,986; June 29; v. 275; p. 906.

Carlson, Oscar T., Lindstrom, Minn. Combination-tool. No. 1,344,114; June 22; v. 275; p. 672.

Carmody, John C., Fitchburg, Mass. Attachment for automobile-controlling pedals. No. 1,342,372; June 1; v. 275; p. 148.

Carney, George D., *et al.* (See Evans, William F., assignor.)

Carns, Edmund B., Detroit, Mich. Aircraft. No. 1,343,707; June 15; v. 275; p. 528.

Carpenter, Harry G. (See Krusemark, F. A., Funkhauser and Carpenter.)

Carr, Max E., Chicago, Ill. Toy vehicle. No. 1,345,127; June 29; v. 275; p. 934.

Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Engine. No. 1,344,331; June 22; v. 275; p. 715.

Carrey Rotary Engine Company. (See Carrey, John O., assignor.)

Carrier, Joseph G., Chicoutimi, Quebec, Canada. Pulp-machine. No. 1,344,173; June 22; v. 275; p. 683.

Carroll, John D., assignor to Turbo Rotary Engine Co., Evansville, Ind. Rotary engine. No. 1,342,496; June 8; v. 275; p. 225.

Carruthers, Myrtle, *et al.* (See Brendle, Frank F., assignor.)

Carruthers, Roy C., *et al.* (See Brendle, Frank F., assignor.)

Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Register-reset. No. 1,344,288; June 22; v. 275; p. 706.

Carson, Jesse R., Lawrence, Kans. Mousetrap. No. 1,342,098; June 1; v. 275; p. 95.

Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,306; June 15; v. 275; p. 448.

Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,307; June 15; v. 275; p. 448.

Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Duplex translating-circuits. No. 1,343,308; June 15; v. 275; p. 448.

Carstens, Frank P. (See Simpson, E. G., Schmidt, and Carstens.)

Cartasso, Giacomo, Oakland, Calif. Spring-wheel. No. 1,344,579; June 22; v. 275; p. 764.

Carter, Martin E., Philadelphia, Pa. Strainer for sugar-juice. No. 1,343,078; June 8; v. 275; p. 341.

Carter, Walter L., Ontario, Calif. Convertible automobile-body. No. 1,343,655; June 15; v. 275; p. 517.

Carver Cotton Gin Company. (See McLean, Robert W., assignor.)

Cary Manufacturing Co. (See Ragona, Vincent, assignor.)

Case, Egerton R., Toronto, Ontario, Canada. Safety device for heavier-than-air bodies. No. 1,341,783; June 1; v. 275; p. 34.

Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,344,289; June 22; v. 275; p. 706.

Case, Francis M., Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,345,072; June 29; v. 275; p. 923.

Case, Theodore W., Scipio, N. Y. Resistance element. No. 1,342,842; June 8; v. 275; p. 294.

Case, William H., Robbinsdale, Minn. Direction-signal for vehicles. No. 1,344,618; June 29; v. 275; p. 837.

Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,344,290; June 22; v. 275; p. 706.

Cash, A. W., Co. (See Cash, Arthur W., assignor.)

Cash, Arthur W., assignor to A. W. Cash Co., Decatur, Ill. Pressure and vacuum relief. No. 1,342,985; June 8; v. 275; p. 322.

Cash Safety Window Company. (See Hecht, Joseph, assignor.)

Cashman, Clarence G., assignor of one-half to J. B. Eader, Waynesboro, Pa. Vise. No. 1,344,862; June 29; v. 275; p. 883.

Caspe, Samuel, Des Moines, Iowa. Stock and poultry fountain and feeder. No. 1,343,349; June 15; v. 275; p. 457.

Cassea, Erwin, Gloversville, N. Y. Sound-modifying means. No. 1,342,662; June 8; v. 275; p. 257.

Cassea, Erwin, San Francisco, Calif. Sound-box for phonographs or the like. No. 1,342,663; June 8; v. 275; p. 257.

Castner, William H., Seattle, Wash., assignor to Road-A-Meter Company. Road-indicating log. No. 1,342,793; June 8; v. 275; p. 285.

Cater, William H., Chicago, Ill. Well-screen. No. 1,342,986; June 8; v. 275; p. 322.

Cathedral Phonograph Company. (See Morrison, Ralph W., assignor.)

Cathrill, Jack, assignor of one half to L. R. Fenn, Los Angeles, Calif. Electric lamp. No. 1,343,309; June 15; v. 275; p. 448.

Cattaneo, Giustino, Milan, Italy. Cooling arrangement for exhaust-valves of internal-combustion engines. No. 1,343,111; June 8; v. 275; p. 347.

Cave, Henry, Hartford, Conn., and J. L. Anderson, Bayonne, N. J., assignors to Davis-Bournonville Company, New York, N. Y. Autogenous-flame-welding machine. No. 1,341,840; June 1; v. 275; p. 45.

Cavers, Thomas W., Copperhill, Tenn., assignor to Garred-Cavers Corporation, New York, N. Y. Smelting lead and like ores and products. No. 1,343,656; June 15; v. 275; p. 517.

Cederstrom, Bror E., Detroit, Mich., assignor to Morgan & Wright, Governor. No. 1,343,389; June 15; v. 275; p. 465.

Central Iron & Steel Company. (See Irons, Robert H., assignor.)

Central Railway Signal Company. (See Pfiel, E. C., and Remlsdefer, assignors.)

Central Stamping Company, The. (See Aikman, Walter M., assignor.)

Chadwick, William M., Oklahoma, Okla. Massage device. No. 1,343,432; June 15; v. 275; p. 473.

Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y. Separator for storage batteries. No. 1,343,708; June 15; v. 275; p. 528.

Champaign, Donald K., Ithaca, N. Y. Intake-manifold. No. 1,342,159; June 1; v. 275; p. 108.

Champeix, Pierre T. L., Menton, France. Combination talking and moving-picture machine. No. 1,345,128; June 29; v. 275; p. 934.

Champion, John J., and T. B. Martindale, assignors to Champion Manufacturing Co., Philadelphia, Pa. Apparatus for reboring and reaming cylinders of engines. No. 1,343,517; June 15; v. 275; p. 489.

Champion Manufacturing Co. (See Champion, J. J., and Martindale, assignors.)

Champlin, Jay J., Laurel, Nebr. Hay-sweep. No. 1,344,863; June 29; v. 275; p. 884.

Chancellor, William H., Strong, Ark. Cotton-harvester. No. 1,342,528; June 8; v. 275; p. 232.

Chantraine, Alphonse B., Marcinelle, Belgium. Recuperator. No. 1,341,970; June 1; v. 275; p. 70.

Chapin, Harold C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Forming manganese peroxid. No. 1,343,390; June 15; v. 275; p. 465.

Chapman, Claud E. (See Colquitt, F. R., and Chapman.)

Chapman, Earle E., Los Angeles, Calif. Vehicle-shackle. No. 1,343,709; June 15; v. 275; p. 528.
Chapman, James, Rock Ferry, Birkenhead, England. Air-cooled sparking plug. No. 1,342,421; June 8; v. 275; p. 211.
Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Well-sinking apparatus. No. 1,343,902; June 22; v. 275; p. 631.
Charland, George J., Sandpoint, Idaho. Spring applier and remover. No. 1,342,529; June 8; v. 275; p. 232.
Charles, Fernand M., Iver Heath, England. Construction of bodies of motor and other vehicles. No. 1,342,664; June 8; v. 275; p. 257.
Charles, Frederick W., Seattle, Wash. Level-indicator and inclinometer. No. 1,343,657; June 15; v. 275; p. 517.
Charrier, Marc F., Akron, Ohio. Translating-chart. No. 1,343,112; June 8; v. 275; p. 347.
Chase, Charles I. (See Chase, Ray H., assignor.)
Chase Companies, The. (See Shoner, John, assignor.)
Chase, James G. (See Bissell, H. C., and Chase.)
Chase, Ray H., assignor of one-third to C. I. Chase, Alexandria, S. D. Internal-combustion engine. No. 1,342,422; June 8; v. 275; p. 211.
Chase, William J., Bellingham, Wash. End extension to automobile-windshields. No. 1,342,794; June 8; v. 275; p. 285.
Cheeseman, Lewis, Hatfield, Mass. Germicide and insecticide. No. 1,343,034; June 8; v. 275; p. 332.
Chemical Foundation, The. (See Bergius, Friedrich, assignor.)
Chemical Foundation, The. (See Bosch, Carl, assignor.)
Chemical Foundation, The. (See Dahlmeyer, Karl O., assignor.)
Chemical Foundation, The. (See Heln, Paul, assignor.)
Chemical Foundation, The. (See Messerschmitt, Anton, assignor.)
Chemical Foundation, The. (See Ostwald, Walter, assignor.)
Chemical Foundation, The. (See Rausch, Carl A., assignor.)
Chemical Foundation, The. (See Schmidt, Karl, assignor.)
Chemical Foundation, The. (See Vögler, Albert, assignor.)
Chemical Foundation, The. (See Volz, Otto, assignor.)
Chemical Foundation, Inc., The. (See Meyer, Ferdinand M., assignor.)
Chenery, Charles R., Buffalo, N. Y. Milk-bottle. No. 1,342,033; June 1; v. 275; p. 78.
Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Retarded switch. No. 1,344,199; June 22; v. 275; p. 688.
Chermak, Andrew, Prince George, Va. Oil-machine. No. 1,344,261; June 22; v. 275; p. 700.
Cherry, Warren L., Wolfe City, Tex. Belt-stretcher. No. 1,344,485; June 22; v. 275; p. 745.
Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Ball-bearing swivel-caster. No. 1,344,864; June 29; v. 275; p. 884.
Chesnutt, Selbert W., Kansas City, Mo. Swivel-caster. No. 1,341,630; June 1; v. 275; p. 3.
Chester, James C., Modesto, Calif. Stock-tie lead. No. 1,344,791; June 29; v. 275; p. 870.
Chiarelli, Anthony, New York, N. Y. Motion-picture-projecting mechanism. No. 1,342,040; June 1; v. 275; p. 84.
Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
Chicago Pottery Company. (See Clifford, F. J., and Perry, assignors.)
Chidester, John H., Summit, N. J.—Illuminated displaying device No. 1,344,379; June 22; v. 275; p. 724.
Chilimidos, Periclis, South Bethlehem, Pa. Camera-timing attachment. No. 1,344,440; June 22; v. 275; p. 736.
Chilton, Henry J., Chicago, Ill. Disappearing handle for suitcases, vallses, and the like. No. 1,343,195; June 15; v. 275; p. 428.
Chimino, Mike, Batavia, N. Y. Motorcycle-top. No. 1,342,987; June 8; v. 275; p. 322.
Chism, William J., Cleveland, Ohio. Traction device. No. 1,343,658; June 15; v. 275; p. 517.
Choiniere, Zothique, Cohoes, N. Y. Poultry-feeder. No. 1,344,987; June 29; v. 275; p. 906.
Christen, Victor H., Toledo, Ohio. Windshield-wiper. No. 1,343,310; June 15; v. 275; p. 449.
Christensen, Hans, Springdale, Wash. Churn. No. 1,344,937; June 29; v. 275; p. 898.
Christensen, Ingermarie, Seattle, Wash. Bedspread. No. 1,343,881; June 15; v. 275; p. 563.
Christensen Machine Company. (See Christensen, Martin, assignor.)
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Book-stitching machine. No. 1,344,441; June 22; v. 275; p. 736.
Christensen, Niels C., Salt Lake City, Utah, assignor of one-half to J. E. Barlow, Habana, Cuba, and one-half to Big Indian Copper Company, State of Utah. Obtaining a concentrated SO_2 solution. No. 1,341,734; June 1; v. 275; p. 24.
Christensen, Norman V., *et al.* (See Brodin, John A., assignor.)
Christie, Walter, Weehawken, N. J. Tractor. (Reissue.) No. 14,868; June 1; v. 275; p. 156.
Christin, Louis, Geneva, Switzerland. Construction of concrete floorings and non-sonorous ceilings. No. 1,343,659; June 15; v. 275; p. 518.
Christman, Anton G., and C. K. Koepp, Milwaukee, Wis. Paint composition. No. 1,342,497; June 8; v. 275; p. 225.
Christoffel, Thomas, assignor of one-half to F. Iseli, St. Paul, Minn. Window-frame with sash-cord holder. No. 1,344,532; June 22; v. 275; p. 755.
Christopher, Arthur B., assignor to The Measuregraph Company, St. Louis, Mo. Calculator. No. 1,343,660; June 15; v. 275; p. 518.
Christopher, William M., assignor to Pioneer Broom Company, Amsterdam, N. Y. Scraping attachment for broom-corn-sizing machines. No. 1,344,332; June 22; v. 275; p. 715.
Chrobak, Kazimier, assignor of one-half to J. Kryvoshey, Rosemont, W. Va. Adjustable picture frame. No. 1,341,971; June 1; v. 275; p. 70.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter No. 1,341,631; June 1; v. 275; p. 1.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic cell. No. 1,344,752; June 29; v. 275; p. 863.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic cell. No. 1,344,753; June 29; v. 275; p. 863.
Churchill, Clifford, Kansas City, Mo. Bank-check. No. 1,343,762; June 15; v. 275; p. 538.
Ciabotti, Ciro, Milan, Italy. Leaf-turning device. No. 1,345,316; June 29; v. 275; p. 971.
Ciaccia, Michael, Albany, N. Y. Back-draft-preventing chimney-cowl. No. 1,343,763; June 15; v. 275; p. 538.
Cigar Machine Corporation of America, The. (See Gindrat, Louis R., assignor.)
Cincinnati Coffin Company, The. (See Betts, A. R., and Goke, assignors.)
Citizens Savings and Trust Company, The, operating trustee. (See Melanowski, Leo, assignor.)
Clapp, Albert L., Marblehead, Mass. Counter-board and producing same. No. 1,345,317; June 29; v. 275; p. 971.
Clark, Bertha, Brooklyn, N. Y. Waistband. No. 1,343,035; June 8; v. 275; p. 332.
Clark, Cornelius S., assignor of one-fourth to W. H. Venable and E. S. Ely, Norfolk, Va. Rail-chair. No. 1,342,251; June 1; v. 275; p. 126.
Clark, Edgar H. (See Lundell, A. E., and Clark.)
Clark, Edwin C., Delano, Calif. Automobile-signal. No. 1,343,248; June 15; v. 275; p. 438.
Clark, Emerson L., Lakewood, Ohio. Headlight. No. 1,345,073; June 29; v. 275; p. 923.
Clark, Ezra E., Newtonville, Mass. Dry-pipe valve. No. 1,344,380; June 22; v. 275; p. 724.
Clark, Harry R., Golden City, Mo. Vertically-adjustable hand-truck. No. 1,343,864; June 15; v. 275; p. 559.
Clark, Lafayette D., Waterville, Me. Nursing-bottle attachment. No. 1,343,113; June 8; v. 275; p. 348.
Clark, Robert G., Brooklyn, N. Y. Boat supporting and launching apparatus for ships. No. 1,344,754; June 29; v. 275; p. 863.
Clark, Robert L., Union, W. Va. Robe-holder. No. 1,342,274; June 1; v. 275; p. 130.
Clarke, William L., Jr., Tallahassee, Fla. Non-slip motion-picture-film band. No. 1,345,129; June 29; v. 275; p. 934.
Clary, Joseph H., Lincoln, Ill. Bomb. No. 1,345,130; June 29; v. 275; p. 934.
Clausen, Henry P., Mount Vernon, and C. L. Goodrum, New York, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,343,903; June 22; v. 275; p. 631.
Clayberg, Clarence C., Detroit, Mich. Engine. No. 1,342,489; June 8; v. 275; p. 226.
Clayton, Enos, Detroit, Mich. Weather-strip. No. 1,341,632; June 1; v. 275; p. 4.
Clayton, Robert. (See Brenner, William C., assignor.)
Cleereman, Peter J., Kenosha, Wis. Beet-harvester. No. 1,342,795; June 8; v. 275; p. 284.
Cleveland Metal Products Company, The. (See Baines, Henry C., assignor.)
Cleveland Tractor Company, The. (See Weldely, George A., assignor.)
Cleworth, Alfred B., Hollinwood, England. Wet filter, water-cooler, humidifying apparatus, and the like. No. 1,345,131; June 29; v. 275; p. 934.
Clifford, Fred W., assignor to Victor Apparatus Company, San Francisco, Calif. Blow-torch. No. 1,344,988; June 29; v. 275; p. 907.
Clifford, Frederick J., and L. A. Perry, assignors to Chicago Pottery Company, Chicago, Ill. Closet-bowl. No. 1,342,499; June 8; v. 275; p. 226.
Clifford, Ward L., Malden, Mass. Washbasin for motor-propelled vehicles. No. 1,342,843; June 8; v. 275; p. 294.
Clifford, William Oxley, Wolverhampton, assignor to Jones & Attwood, Limited, Amblecote, Stafford, England. Separation and settlement of solids and matters from sewage and other liquids. No. 1,343,764; June 15; v. 275; p. 539.
Climes, Delia A., San Diego, Calif. Water-bag. No. 1,342,252; June 1; v. 275; p. 126.
Clish, Joseph, Iron Mountain, Mich. Automobile-radiator. No. 1,341,784; June 1; v. 275; p. 34.

Clogston, Melvin, assignor of one-half to J. Soeders, Terre Haute, Ind. Lifting device or grapple. No. 1,344,174; June 22; v. 275; p. 683.
Clopton, William H., Jr., U. S. Army. Collar-supporter. No. 1,344,580; June 22; v. 275; p. 764.
Clouston, Thomas, Vancouver, British Columbia, Canada. Gas-generator and combustion-chamber for pulverized fuel. No. 1,344,333; June 22; v. 275; p. 715.
Clow, James B., & Sons. (See Rice, Frank L., assignor.)
Coanda, Henri, Paris, France. Aerial transporter. No. 1,344,677; June 29; v. 275; p. 848.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Cracking hydrocarbons. No. 1,345,132; June 29; v. 275; p. 934.
Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,345,133; June 29; v. 275; p. 935.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for distilling hydrocarbons. No. 1,345,134; June 29; v. 275; p. 935.
Coate, William V., Celina, Ohio. Damper. No. 1,341,881; June 1; v. 275; p. 52.
Coburn, Samuel, Birmingham, Ala. Sand-blast tumbler. No. 1,343,350; June 15; v. 275; p. 457.
Cocks, George H., Adrian, Mich. Combination drill-press table and vise. No. 1,341,841; June 1; v. 275; p. 45.
Cocksedge, Herbert E. (See Freeth, F. A., and Cocksedge.)
Coe, W. H., Manufacturing Company. (See Moscini, John, assignor.)
Coen, Garnet W., San Francisco, Calif. Heater. No. 1,344,381; June 22; v. 275; p. 724.
Coffelt, George F., Corbin, Kans. Airship. No. 1,344,486; June 22; v. 275; p. 746.
Coffman, Harvey G., *et al.* (See Burnett, Charley, assignor.)
Coffman, Lewis C., *et al.* (See Burnett, Charley, assignor.)
Cogswell, George R. (See Phillips, Fred V., assignor.)
Cohn, Harry, Albany, N. Y. Duplicating-machine. No. 1,342,530; June 8; v. 275; p. 232.
Colburn Machine Tool Company. (See Hend, Ernest C., assignor.)
Cold Light Manufacturing Company, The. (See Thorne, Victor C., assignor.)
Cold Light Manufacturing Company, Inc., The. (See Schlesinger, William A., assignor.)
Cole, Edward P., Chicago, Ill. Coal and gas range. No. 1,344,755; June 29; v. 275; p. 863.
Cole, Herbert, *et al.* (See Llebers, Meyer, assignor.)
Cole, John M., Bloomington, Ill. Tool for straightening clencher-rims. No. 1,344,533; June 22; v. 275; p. 755.
Coleman, William C., Wichita, Kans. Lamp. No. 1,344,200; June 22; v. 275; p. 689
Colesby, Joseph. (See Woodward, John J., assignor.)
Colestock, Harry H., St. Paul, Minn. Sputum-box. No. 1,344,442; June 22; v. 275; p. 737.
Coletta, Luigi, assignor of thirty-five one-hundredths to F. Allcandro, Columbus, Ohio. Aeroplane. No. 1,343,433; June 15; v. 275; p. 473.
Collens, Campbell W., New Orleans, La. Switch-operating device for street-railway cars. No. 1,344,487; June 22; v. 275; p. 746.
Collett, Frederick W. H., Cambridge, Mass., assignor to Rockwell & Company, Inc. Mattress-side-stitching machine. No. 1,342,423; June 8; v. 275; p. 211.
Collins, Albert K., Charlotte, N. C. Turnstile. No. 1,342,253; June 1; v. 275; p. 126.
Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Electric heating apparatus. No. 1,343,996; June 22; v. 275; p. 649.
Collins, Edward W., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Stacking-pin. No. 1,343,351; June 15; v. 275; p. 457.
Collins, Thomas E., Chicago, Ill. Starter. No. 1,344,291; June 22; v. 275; p. 707.
Collord, George L., Pittsburgh, Pa. Treating ores. No. 1,343,249; June 15; v. 275; p. 438.
Collord, George L., Pittsburgh, Pa. Treating ores. No. 1,343,250; June 15; v. 275; p. 438.
Colman, Howard D., B. A. Peterson, and E. D. Parker, assignors to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,342,896; June 8; v. 275; p. 305.
Colomb, Henri, Tavannes, Switzerland. Double-roller lever-escapement. No. 1,345,318; June 29; v. 275; p. 971.
Colquitt, Frank R., Huntington Park, and C. E. Chapman, Los Angeles, Calif. Steamer. No. 1,341,972; June 1; v. 275; p. 71.
Colson, Frankie M., Salt Lake City, Utah. False bottom for cooking utensils. No. 1,343,114; June 8; v. 275; p. 348.
Colvin, Frederick H., Duluth, Minn. Drift-bar. No. 1,344,619; June 29; v. 275; p. 837.
Colwell, John W., assignor of two-thirds to M. Kohn, Chicago, Ill. Liquid-fuel burner. No. 1,342,988; June 8; v. 275; p. 323.
Comer, John H., Liberty Hill, Tex. Silo. No. 1,343,809; June 15; v. 275; p. 548.
Comiskey, Stanley A., Baltimore, Md., assignor to The Cutler-Hammer Mfg. Co. Counter No. 1,342,665; June 8; v. 275; p. 257.
Comly, James F., New Lexington, Ohio. Nut-lock. No. 1,344,534; June 22; v. 275; p. 755.
Commercial Cars Construction Co. (See Rogers, Solomon D., assignor.)
Commercial Radio Company of America. (See Giblin, Thomas P., assignor.)
Compagnie Belge Du Bi-Metal, Société Anonyme. (See Martin, Edouard, assignor.)
Compagnie D'Applications Mechaniques. (See Rouanet, Louis, assignor.)
Compagnie Des Forges et Acieries De La Marine et D'Homecourt. (See Rimailho, Emile, assignor.)
Compagnie des Produits Chimiques d'Alais et de la Camargue. (See Guyot, Alfred, assignor.)
Concrete Craft Corporation. (See Kastengren, Gustavus E., assignor.)
Condit, Jr., Sears B. (See Burnham, George A., assignor.)
Condito, George C., Wingdale, N. Y. Lifting-jack. No. 1,345,135; June 29; v. 275; p. 935.
Condon, Thomas J., Detroit, Mich. Saddle-spring support. No. 1,344,382; June 22; v. 275; p. 724.
Conkling, De Witt C., New York, N. Y. Steam-engine. No. 1,345,319; June 29; v. 275; p. 971.
Conlon, Charles, Lynbrook, N. Y. Mechanical movement. No. 1,344,989; June 29; v. 275; p. 907.
Conlon Electric Washer Company. (See Wassell, Clifford R., assignor.)
Conlon, James, Pawtucket, R. I. Transportation system. No. 1,342,531; June 8; v. 275; p. 232.
Connecticut Telephone & Electric Company, Incorporated, The. (See Livingston, S. D., and Stahl, assignors.)
Connell, Howard G., and A. J. Swindall, Dryad, Wash. Cattle-guard. No. 1,344,262; June 22; v. 275; p. 700.
Connersville Blower Company, The. (See Wilkin, John T., assignor.)
Connolly, James J. (See Huff, William D., assignor.)
Connors, Thomas F., Bridgeport, Conn. Necktie and pin holder. No. 1,342,796; June 8; v. 275; p. 285.
Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mounting for oil-pumps. No. 1,344,756; June 29; v. 275; p. 863.
Conrad, Nicholas J. (See Schweitzer, E. O., and Conrad.)
Conran, William F., Brooklyn, N. Y. Pressure-regulating valve. No. 1,344,383; June 22; v. 275; p. 725.
Constantine, Henry A., Niagara Falls, N. Y. Wet pulp-machine. No. 1,344,024; June 22; v. 275; p. 654.
Conti, Angelo, Washington, D. C. System of marine propulsion. No. 1,342,797; June 8; v. 275; p. 286.
Continental Air Craft & Transportation Company. (See Leinweber, Victor H., assignor.)
Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,343,196; June 15; v. 275; p. 428.
Cook, David, Lynn Valley, British Columbia, Canada. Wire-rope carriage. No. 1,343,434; June 15; v. 275; p. 473.
Cook, George A., Kansas City, Mo. Preparing creosote-oil solutions. No. 1,342,942; June 8; v. 275; p. 314.
Cook, George E., Brooklyn, N. Y. Aerial bomb. No. 1,343,036; June 8; v. 275; p. 332.
Cook, Leander P., and J. D. Sims, Houston, Tex. Caskets. No. 1,342,324; June 1; v. 275; p. 139.
Cook, Stanley S. (See Parsons, C. A., Cook, and Aldis.)
Cooke, Frank V., New Eagle, Pa. Vehicle-spring. No. 1,344,792; June 29; v. 275; p. 871.
Cooper, Albert R., Findlay, Ohio. Thermo-electric arch-support. No. 1,344,581; June 22; v. 275; p. 764.
Cooper Hewitt Electric Company. (See Keyes, Frederick G., assignor.)
Cooper, William G., Sapulpa, Okla. Composition for application to razor-strops. No. 1,344,865; June 29; v. 275; p. 884.
Cope, Willard C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Detonating fuse. No. 1,341,705; June 1; v. 275; p. 18.
Coppage, Benjamin D., Wilmington, Del. Drum winding-machine. No. 1,342,532; June 8; v. 275; p. 232.
Coppock, Lambert, Berlin, Oreg. Wagon-frame. No. 1,342,254; June 1; v. 275; p. 126.
Cornell, Alfred, Tonbridge, England. Device for use in sharpening domestic and other knives. No. 1,342,275; June 1; v. 275; p. 130.
Cornell, Elmer E., St. Louis, Mo. Punching-shears. No. 1,344,488; June 22; v. 275; p. 746.
Cornell, Harry L., Binghamton, N. Y. Electrical signal system for automobiles. No. 1,341,735; June 1; v. 275; p. 24.
Cornu, Marie J., Paris, France. Mercury-vapor lamp. No. 1,343,037; June 8; v. 275; p. 333.
Corrigan, Edward J., Newport News, Va. Curtain and shade hanger. No. 1,343,997; June 22; v. 275; p. 649.
Cory, Harvey, Long Beach, assignor to E. F. Kline, Los Angeles, Calif. Air-control device for the air-inlets of carbureters. No. 1,343,311; June 15; v. 275; p. 449.
Cosby, Luther F., Dallas, Tex. Auto steering-jack. No. 1,342,276; June 1; v. 275; p. 130.
Cosme, Carlos, Corona, N. Y. Cuspidor-cleaner. No. 1,342,739; June 8; v. 275; p. 273.
Costelloe, Clinton, and S. G. Stoll, El Paso, Tex. Automobile-radiator. No. 1,343,352; June 15; v. 275; p. 457.
Coté, Alexis. (See Rousseau, Joseph H., and Coté, A.)
Cotten, Shepard M., Phoenix, Ariz. Method and apparatus for constructing concrete piles. No. 1,342,424; June 8; v. 275; p. 212.
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Cottrell, C. B., and Sons Company. (See Knowles, Bernard D., assignor.)

Cottrell, C. B., & Sons Company. (See Leonard, Henry E., assignor.)
Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,341,633; June 1; v. 275; p. 4.
Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,341,634; June 1; v. 275; p. 4.
Coughlin, Joseph D., assignor to Wein Sales Corporation, New York, N. Y. Belting. No. 1,341,973; June 1; v. 275; p. 71.
Coulter, Hugh A., assignor to W. M. Macphail and M. J. K. Allen, Winnipeg, Manitoba, Canada. Through-rail diamond. No. 1,344,866; June 29; v. 275; p. 884.
Court, Leonard, Birmingham, England. Work-holding attachment for milling threads. No. 1,343,435; June 15; v. 275; p. 473.
Cowan, Charles G., Driscoll, assignor of one-half to E. W. Harris, Broadmoor, Tex. Means for holding slats to belts. No. 1,345,136; June 29; v. 275; p. 935.
Cowan Truck Company. (See Fairchilds, George R., assignor.)
Cowel, John E., Crest, Colo. Mousetrap-pedal. No. 1,345,137; June 29; v. 275; p. 935.
Cowley, James, and R. C. Ellis, St. Louis, Mo. Auxiliary-power device. No. 1,344,582; June 22; v. 275; p. 764.
Cowmatic Corporation. (See Lewis, John M. B., assignor.)
Cox, Harry M., Newark, assignor to J. M. Cox, Passaic, N. J. Banjo-support. No. 1,342,202; June 1; v. 275; p. 116.
Cox, John M. (See Cox, Harry M., assignor.)
Cox, Paul F., Chicago, Ill. Addressing mechanism (slug). No. 1,344,384; June 22; v. 275; p. 725.
Coyne, Anthony, and L. Hash, Fork Ridge, Tenn. Miner's lamp. No. 1,344,867; June 29; v. 275; p. 884.
Crago, Felix H., Hot Springs, Mont. Trap. No. 1,342,425; June 8; v. 275; p. 212.
Craig, Edward J., West View, assignor to H. Moore, Sewickley, Pa. Weather-strip. No. 1,343,904; June 22; v. 275; p. 631.
Craig Tractor Company, The. (See Diederich, John W., assignor.)
Cram, Leroy V., Detroit, Mich. Rod-support. No. 1,342,099; June 1; v. 275; p. 95.
Crane Puller Company. (See Twombly, Harry D., assignor.)
Crane, William M., Company. (See Erskine, James, assignor.)
Craun, William H., Hoboken, N. J., and P. Mathis, Brooklyn, N. Y. Portable lathe for recutting crank-shaft pins. No. 1,345,138; June 29; v. 275; p. 936.
Crays, Oscar M., assignor of one-third to R. Bellville and one-third to C. C. Stone, Indianapolis, Ind. Motor-buck. No. 1,344,385; June 22; v. 275; p. 725.
Crear, James, Chicago, Ill. Bicycle. No. 1,343,616; June 15; v. 275; p. 509.
Creason, Frank, Richmond, Mo., assignor of one-half to W. A. Mullin. Cement-block mold. No. 1,342,373; June 1; v. 275; p. 148.
Creedy, James S., Hamilton, Ontario, Canada. Journal-box lids. No. 1,344,175; June 22; v. 275; p. 683.
Cresmer, John H., Riverside, Calif. Form for concrete construction. No. 1,344,115; June 22; v. 275; p. 672.
Cressler, Albert B., L. B. Ness, and H. B. Baumbach, Middletown, Pa. Sash-weight. No. 1,344,176; June 22; v. 275; p. 684.
Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric system. No. 1,343,765; June 15; v. 275; p. 539.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,343,905; June 22; v. 275; p. 631.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,344,222; June 22; v. 275; p. 693.
Crim, Joseph E., and H. E. Brower, Decatur, Ill. Gear-puller. No. 1,342,661; June 15; v. 275; p. 518.
Criqui, Albert A., assignor to Buffalo Forge Company, Buffalo, N. Y. Centrifugal fan. No. 1,341,882; June 1; v. 275; p. 53.
Crisamore, Grant, Los Angeles, Calif. Non-skid and tractor device. No. 1,344,678; June 29; v. 275; p. 848.
Crist, Frank, Lima, Ohio. Washout-plug for boilers. No. 1,342,740; June 8; v. 275; p. 273.
Crooks, William, Aldrich, Ala. Automatic mine-door-operating mechanism. No. 1,345,074; June 29; v. 275; p. 923.
Croonholm, Nills, Cornwall, N. Y. Equalizer. No. 1,344,334; June 22; v. 275; p. 715.
Crouch, John W., St. Louis, Mo. Hose-supporter. No. 1,342,666; June 8; v. 275; p. 258.
Crouse, Emory, Wichita, Kans. Internal-combustion engine. No. 1,344,263; June 22; v. 275; p. 701.
Crow, Martin E., Elkhart, Ind. Vehicle-frame brace. No. 1,342,623; June 8; v. 275; p. 249.
Crowe, Thomas, Hamilton, Ontario, Canada. Roller journal-bearing. No. 1,344,868; June 29; v. 275; p. 885.
Crowell, Frederic N., Terrace Park, Ohio. Blotting-pad or blotter. No. 1,344,335; June 22; v. 275; p. 715.
Crowley, John C., Toledo, Ohio. Apparatus for making sheet-glass. No. 1,342,533; June 8; v. 275; p. 233.
Cruickshank, Alexander, Matsqui, British Columbia, Canada. Cattle-guard. No. 1,342,014; June 1; v. 275; p. 79.
Cruikshank, J. W., Engineering Company. (See Cruikshank, James W., assignor.)
Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Apparatus for supplying and grading abrasives to glass-grinding machines. No. 1,343,710; June 15; v. 275; p. 528.
Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Supplying and grading sand to glass-grinding machines. No. 1,343,711; June 15; v. 275; p. 528.
Crummey, Henry C. (See Crummey, Willie H., assignor.)
Crummey, Willie H., assignor of one-half to H. C. Crummey, Baxley, Ga. Compound tool. No. 1,344,264; June 22; v. 275; p. 701.
Cruttenden, Henry L., Northfield, Minn. Dental-cement-injecting tube. No. 1,341,736; June 1; v. 275; p. 24.
Culberson, Alonzo A., Topeka, Kans. Resilient tire. No. 1,343,766; June 15; v. 275; p. 639.
Cullin, Jasper F., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Device for testing pole-windings. No. 1,345,075; June 29; v. 275; p. 923.
Cummings, Dickinson S. (See Pierce, John, Jr., assignor.)
Cunard, Frederic W., Liverpool, England. Self-propelled tank or redoubt for military use. No. 1,342,943; June 8; v. 275; p. 314.
Cunniff, Edward A., New Bedford, J. V. Cunniff, Fall River, and J. K. Lanning, Boston, Mass.; said E. A. Cunniff and said J. V. Cunniff assignors to said J. K. Lanning. Weft-replenishing loom. No. 1,341,883; June 1; v. 275; p. 53.
Cunniff, John V. (See Cunniff, E. A. and J. V., and Lanning.)
Cunningham, John, Ukiah, Calif. Truss. No. 1,345,139; June 29; v. 275; p. 936.
Cunningham, John A., Bethlehem, Pa. Match-lighter. No. 1,341,785; June 1; v. 275; p. 34.
Cunningham, Paul B., U. S. Army. Military rifle. No. 1,344,991; June 29; v. 275; p. 907.
Cuno, Charles F., assignor to Cuno Engineering Corporation, Meriden, Conn. Automatic switch for cigar-lighters, etc. No. 1,342,015; June 1; v. 275; p. 79.
Cuno Engineering Corporation. (See Cuno, Charles F., assignor.)
Curran, Edward T. (See Mayer, T. M., and Curran, assignors.)
Current, George E., Mogollon, N. Mex. Rotary engine. No. 1,343,115; June 8; v. 275; p. 348.
Currier, Arthur L., Newton Highlands, assignor to The J. W. Moore Machine Company, Boston, Mass. Button-carding machine. No. 1,344,679; June 29; v. 275; p. 848.
Curry, George, Altoona, Pa. Toy. No. 1,345,140; June 29; v. 275; p. 936.
Curry, William J., Nettleton, Miss. Muck-shoe. No. 1,343,436; June 15; v. 275; p. 473.
Curzon, Michael. (See Valente, A., and Curzon.)
Curzon, Samuel. (See Valente, A., and Curzon.)
Cushion Spring Engineering Corporation. (See Hunt, Ozello R., assignor.)
Cutler, Clifford A., Buffalo, N. Y. Drying-kiln. No. 1,341,884; June 1; v. 275; p. 53.
Cutler-Hammer Mfg. Co., The. (See Comiskey, Stanley A., assignor.)
Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Richardson, Linwood T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
Cutten, Elisha B., Kokomo, Ind. Electrolyzing cobalt solutions. No. 1,344,869; June 29; v. 275; p. 885.
Cuzen, Robert L., Plainfield, N. J. Phonograph-lamp attachment. No. 1,343,767; June 15; v. 275; p. 539.
Czarniecki, Andrew, Plymouth, Pa. Attachment for wick-lamps. No. 1,345,141; June 29; v. 275; p. 936.
Czechowicz, Alexander K., Alden Station, Pa. Lady's combination undergarment. No. 1,343,038; June 8; v. 275; p. 333.
Dagosteno, Augustine, New York, N. Y. Safety-brake. No. 1,343,116; June 8; v. 275; p. 348.
Dahlmeyer, Karl O., Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Electrically-driven shaker molding-machine. No. 1,344,680; June 29; v. 275; p. 849.
Dailey, David D., Atmore, Ala. Device for destroying boll-weevil moths. No. 1,341,706; June 1; v. 275; p. 18.
Dalby, John, Pawtucket, R. I. Bobbin-winding machine. No. 1,343,768; June 15; v. 275; p. 539.
Dalén, Gustaf, Lidingön, Stockholm, Sweden. Apparatus for automatically opening and closing gas-conduits. No. 1,342,160; June 1; v. 275; p. 108.
Dalmaut, Sam N., Wetonka, S. D. Water-mill. No. 1,342,100; June 1; v. 275; p. 96.
Dalton, John B., Pittsburgh, Pa. Packaging ice-cream. (Reissue.) No. 14,887; June 22; v. 275; p. 770.
Dalziel, Charles J. A., London, England. Recovering copper from its ores. No. 1,341,786; June 1; v. 275; p. 24.
Dalziel, Charles J. A., London, England. Extracting metals. No. 1,344,681; June 29; v. 275; p. 849.
Dana, Homer J., Pullman, Wash. Portable hydraulic power device. No. 1,343,117; June 8; v. 275; p. 349.
Danckwardt, Paul, Denver, Colo. Producing anhydrous aluminum chlorid. No. 1,343,662; June 15; v. 275; p. 518.
Daniel, Wojciech. (See Zaboy, Maciej, assignor.)

Danielson, Oscar A., New York, N. Y. Combined incidence and side-slip indicator for aeroplanes and the like. No. 1,342,944; June 8; v. 275; p. 314.
Danner, Emil C., Westmont borough, Pa. Spring-coiling machine. No. 1,344,116; June 22; v. 275; p. 672.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Electrical cut-out. No. 1,343,039; June 8; v. 275; p. 333.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Porcelain. No. 1,343,040; June 8; v. 275; p. 333.
Danyluk, Iwan, Welmar, Tex. Collapsible bench. No. 1,343,810; June 15; v. 275; p. 548.
Dapprich, Carl E. L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Centrifugally-actuated clutch. No. 1,341,635; June 1; v. 275; p. 4.
Darley, John W., Jr., Baltimore, Md. Projectile and means for firing said projectile. No. 1,344,992; June 29; v. 275; p. 907.
Darrah, William A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arc-lamp. No. 1,344,757; June 29; v. 275; p. 864.
Dasey, Percy J., Chicago, Ill. Apparatus for supplying explosive gas to internal-combustion engines. No. 1,344,793; June 29; v. 275; p. 871.
Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,342,101; June 1; v. 275; p. 96.
Daugherty, Harry L., Carson City, Nev. Rosette for bridles and other parts of harness. No. 1,345,076; June 29; v. 275; p. 923.
Daum, William T., Oak Park, Ill. Automobile-trailer. No. 1,343,197; June 15; v. 275; p. 428.
Davenport, Arthur A., Lockport, N. Y. Drop-box loom. No. 1,343,663; June 15; v. 275; p. 519.
David, John C., Springfield, Mo. Connecting means for railway-rails. No. 1,344,336; June 22; v. 275; p. 715.
Davidson, Arthur C., assignor to Waugh Draft Gear Company, Chicago, Ill. Antifriction draw-bar. No. 1,342,586; June 8; v. 275; p. 244.
Davidson, Clinton J., Berkeley, Calif. Slide-rule. No. 1,343,549; June 15; v. 275; p. 496.
Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Preparing pulp having wax-impregnated fibers. No. 1,344,620; June 29; v. 275; p. 837.
Davis-Bournonville Company. (See Bucknam, Worthy C., assignor.)
Davis-Bournonville Company. (See Buckley, William J., assignor.)
Davis-Bournonville Company. (See Cave, H., and Anderson, assignors.)
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,344,201; June 22; v. 275; p. 689.
Davis, George B., Calgary, Alberta, Canada. Safety anti-tilting device for elevators. No. 1,343,118; June 8; v. 275; p. 349.
Davis, George H. E., Lynn, Mass. Shelf-facing. No. 1,344,223; June 22; v. 275; p. 693.
Davis, Glenn L., Burrton, Kans. Aeroplane-brake. No. 1,343,769; June 15; v. 275; p. 540.
Davis, Harrison H., The Plains, Ohio. Safety-crank. No. 1,345,142; June 29; v. 275; p. 936.
Davis, Jasper W. (See McMaster, Henry, assignor.)
Davis, John W., Honolulu, Hawaii. Case for holding cigarette-papers. No. 1,341,974; June 1; v. 275; p. 71.
Davis, Virginia, New York, N. Y. Clothespin. No. 1,343,496; June 15; v. 275; p. 485.
Davis, Virginia, New York, N. Y. Key-ring. No. 1,343,495; June 15; v. 275; p. 485.
Davis, Walter G., Miami, Fla. Soap-hanger. No. 1,342,844; June 8; v. 275; p. 294.
Dawley, Fred B., Detroit, Minn. Attachment for steam-heating plants. No. 1,344,292; June 22; v. 275; p. 707.
Dawley, James C. (See Ripsch, C. W., Dawley, and Derby.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil and run out gear for ordnance. No. 1,342,708; June 8; v. 275; p. 266.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to Vickers Limited, London, England. Ordnance recoil and run-out apparatus. No. 1,342,709; June 8; v. 275; p. 267.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance recoil and run-out apparatus. No. 1,344,621; June 29; v. 275; p. 837.
Dawson, Josiah, Philadelphia, Pa., assignor to The Globe Automatic Sprinkler Company. Fusible strut. No. 1,342,203; June 1; v. 275; p. 116.
Day, David T., Washington, D. C. Extracting oils and hydrocarbon material from shale and similar bituminous rocks. No. 1,342,741; June 8; v. 275; p. 273.
Day, George H., Rochester, N. Y. Ophthalmic mounting. No. 1,344,293; June 22; v. 275; p. 707.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,343,437; June 15; v. 275; p. 474.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Forming filled mountings. No. 1,345,143; June 29; v. 275; p. 937.
Day, Percy C., Milwaukee, assignor to The Falk Company, Wauwatosa, Wis. Transmission-gearing. No. 1,343,963; June 22; v. 275; p. 643.
Dayton Engineering Laboratories Company, The. (See Haas, Nelson R., assignor.)
Dayton Engineering Laboratories Company, The. (See Millward, John R., assignor.)
Dayton Engineering Laboratories Company, The. (See Schwarz, Elmer H., assignor.)
Dayton Malleable Iron Company, The. (See Mason, William C., assignor.)
Dayton-Wright Company. (See Jacobs, James M. H., assignor.)
Dearborn Truck Company. (See Williams, Harrison R., assignor.)
Dean, James H., Chicago, Ill. Sifter for flour-bins. No. 1,342,989; June 8; v. 275; p. 323.
De Camp, James W. (See Reynolds, Delbert J., assignor.)
De Cardenas, Ambrose. (See Ramos, R., and de Cardenas.)
De Coursey, William, San Francisco, Calif. Combined ore grinder and amalgamator. No. 1,343,041; June 8; v. 275; p. 333.
D'Errico, Alfonso, Boston, Mass. Resilient wheel. No. 1,341,842; June 1; v. 275; p. 45.
De Fernelmont, Leonard H., Philadelphia, Pa. Mold for making building-tile. No. 1,342,208; June 1; v. 275; p. 117.
De Hernández, Lolamora, Buenos Aires, Argentina. Projection apparatus. No. 1,344,682; June 29; v. 275; p. 849.
Deibert, William E., Reading, Pa. Cylinder-lock. No. 1,343,438; June 15; v. 275; p. 474.
Delano, James K., New York, N. Y. Engine-starting system. No. 1,344,870; June 29; v. 275; p. 885.
De Lapotterie, Otto H., assignor to Townsend Company, New Brighton, Pa. Metal-working machine. No. 1,341,808; June 1; v. 275; p. 39.
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
Delaygue, Charles, Paris, France. Ammonia-dissolving composition for use in refrigeration apparatus. No. 1,345,144; June 29; v. 275; p. 937.
Delque, Mrs., *et al.* (See Motte, Charles M., assignor.)
De Luce, Robert, Fresno, Calif. Producing lime-potash fertilizer from potash-bearing minerals and lime. No. 1,345,077; June 29; v. 275; p. 924.
Demarest, Thomas W., Fort Wayne, Ind. Automatic drain-valve. No. 1,343,550; June 15; v. 275; p. 496.
De Martin, Charles L., and H. C. Foster, assignors to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,342,426; June 8; v. 275; p. 212.
De Moulin, Ulysses S., Greenville, Ill. Legging. No. 1,341,885; June 1; v. 275; p. 53.
Denison, George W., Cleveland, Ohio. Wall construction. No. 1,343,312; June 15; v. 275; p. 449.
Denman, Hugh E., Harwood, Tex. Fork. No. 1,343,811; June 15; v. 275; p. 548.
Denmead, John W., Akron, Ohio. Attaching means for rubber heels. No. 1,344,443; June 22; v. 275; p. 737.
Dennis, Medley, *et al.* (See Medley, Granville E., assignor.)
Dennis, Morton, *et al.* (See Medley, Granville E., assignor.)
Denson, Jessie D., Grand Rapids, Mich. Aeroplane. No. 1,341,886; June 1; v. 275; p. 54.
Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)
Derby, Charles D. (See Ripsch, C. W., Dawley, and Derby.)
De Rieux, Lee O. (See Thompson, George H., assignor.)
De Rosier, David, Braddock, Pa. Face-mask. No. 1,342,897; June 8; v. 275; p. 305.
De Rosier, David, Braddock, Pa. Face-mask. No. 1,342,898; June 8; v. 275; p. 305.
De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,341,707; June 1; v. 275; p. 18.
Deschauer, Rudolph H., Chicago, Ill. Machine for making twist-drills. No. 1,341,636; June 1; v. 275; p. 4.
Des Moineaux, Alfred V., Denver, Colo. Detachable heel. No. 1,343,353; June 15; v. 275; p. 457.
Desoutter, Leon C., London, England. Artificial leg. No. 1,343,617; June 15; v. 275; p. 509.
Dettman, Max, San Francisco, Calif. Match-box holder. No. 1,343,354; June 15; v. 275; p. 457.
Detroit Belt Lacer Company. (See Garllus, B., and Knott, assignors.)
Detroit Stove Works. (See Fry, John A., assignor.)
Detwiler, Charles N., Toledo, Ohio. Stud-attaching means for electric outlet members. No. 1,344,077; June 22; v. 275; p. 665.
Dewey, Frank H., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,344,993; June 29; v. 275; p. 907.
D'Harlingue, Alfred E., St. Louis, Mo. Blown-glass vacuum-brick. No. 1,342,404; June 1; v. 275; p. 154.
Diamond Iron Works. (See Sprague, Charles B., assignor.)
Diamond Power Specialty Company. (See Beebee, L., and Bowers, assignors.)
Dick, Ralph H., and C. F. Wolters, assignors to The Safe-Cabinet Company, Marietta, Ohio. Heat-resisting cabinet. No. 1,342,204; June 1; v. 275; p. 116.

Dickerson, Malcolm, Belleville, N. J., assignor of one-half to Societe Anonyme des Anciens Etablissements, C. & E. Chapal Freres & Cie., Brooklyn, N. Y. Machine for dyeing fur-skins. No. 1,343,355; June 15; v. 275; p. 458.
Dickerson, Marshal S., Cleveland Ranch, Nev. Gasolene automobile-tank. No. 1,343,812; June 15; v. 275; p. 548.
Dickie, James. (See Jardine, J. C., and Dickey.)
Dickie, James, Summerside, Prince Edward Island, Canada. Sled-pad. No. 1,341,708; June 1; v. 275; p. 18.
Dickinson, Joseph W., Cranford, N. J. Pressure-reserve method and mechanism for piano-players. No. 1,344,386; June 22; v. 275; p. 725.
Dickson, Benjamin H., and J. E. Fry, Yuma, Colo. Stove. No. 1,343,122; June 8; v. 275; p. 350.
Dickson, George E., Chicago, Ill. Making weatherproof nails. No. 1,342,742; June 8; v. 275; p. 273.
Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Factory, Chicago, Ill. Compasses. No. 1,343,664; June 15; v. 275; p. 519.
Diederich, John W., assignor to The Craig Tractor Company, Cleveland, Ohio. Tractor. No. 1,342,427; June 8; v. 275; p. 212.
Dieguez y Lopez, Juan, and F. Alcañiz y Bascompte, Habana, Cuba. Lip-guard. No. 1,344,179; June 22; v. 275; p. 684.
Diehl, Adam, Springfield, Ohio. Molding-machine. No. 1,342,428; June 8; v. 275; p. 213.
Dierker, Henry, Glenfield, Pa. Pressed-steel metal bed-lock. No. 1,344,583; June 22; v. 275; p. 765.
Dies, Charles A., Chicago, Ill. Slicing-machine. No. 1,344,118; June 22; v. 275; p. 673.
Dietz, John T., Cleveland, Ohio. Cutting-tool. No. 1,345,320; June 29; v. 275; p. 971.
Dietzgen, Eugene, Company, Factory. (See Dieckmann, Carl F., assignor.)
Dillon, James F., Crown City, Ohio, assignor to N. K. Bowman, North Lawrence, Ohio. Cable-splice. No. 1,343,251; June 15; v. 275; p. 438.
Dils, Robert C. (See Cowley, J., and Dils.)
Discher, Grant F., Milwaukee, Wis. Bumper-bracket. No. 1,342,374; June 1; v. 275; p. 148.
Diserens, Paul, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation. Condenser system and vacuum-pump. No. 1,344,994; June 29; v. 275; p. 908.
Disinger, Ernest, assignor to Willard Storage Battery Company, Cleveland, Ohio. Machine for casting strips to storage-battery grids. No. 1,344,294; June 22; v. 275; p. 707.
Diskin, Moses B., New York, N. Y. Box-making machine. No. 1,343,906; June 22; v. 275; p. 632.
Diskin, Moses B., New York, N. Y. Box-mandrel. No. 1,343,907; June 22; v. 275; p. 632.
Ditchfield, Frank, Montreal, Quebec, Canada. Tire. No. 1,344,025; June 22; v. 275; p. 655.
Dix, Julian H. (See Fully, Fred G., assignor.)
Dochtermann, George T., Passaic, N. J. Spark-plug. No. 1,342,205; June 1; v. 275; p. 117.
Dodd, Martin S., administrator. (See Williams, Lacey Y.)
Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
Dodge, Charles B. and J. T., Morse Bluff, Nebr. Crank-shaft connection for engines. No. 1,341,709; June 1; v. 275; p. 19.
Dodge, Horace L., Buffalo, N. Y. Printing-machine. No. 1,344,489; June 22; v. 275; p. 746.
Dodge, James T. (See Dodge, C. B. and J. T.)
Doe, Joseph S., Burnham, Ill. Metallic foot-mat. No. 1,343,356; June 15; v. 275; p. 458.
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Side-frame arrangement. No. 1,343,618; June 15; v. 275; p. 509.
Doherty, Henry L., and Company. (See Buell, W. C., Jr., and Griswold, assignors.)
Dohm, Robert O., Dane, Wis. Automatic-supply hog-feeder. No. 1,341,887; June 1; v. 275; p. 54.
Dolbear, Samuel H., San Francisco, Calif., assignor to Minerals Separation North American Corporation. Process and apparatus for concentrating ores or other materials. No. 1,343,313; June 15; v. 275; p. 449.
Domestic Sewing Machine Co. (See Riddell, George H., assignor.)
Dominguez, Juan I., Buenos Aires, Argentina. Safety device for cattle at railway-crossings. No. 1,345,145; June 29; v. 275; p. 937.
Dominguez, Juan I., Buenos Aires, Argentina. Cattle-guard. No. 1,345,146; June 29; v. 275; p. 937.
Donadio, Prospero, Brooklyn, N. Y. Revolver-stock. No. 1,341,843; June 1; v. 275; p. 46.
Donnelly, John, Newark, N. J. Window-screen No. 1,344,758; June 29; v. 275; p. 864.
Donovan, Leo R., Norwood, N. Y. Storm-window attachment for locomotive-cabs. No. 1,345,147; June 29; v. 275; p. 937.
Dooley, Joseph R., Mobile, Ala. Railway-tie. No. 1,343,813; June 15; v. 275; p. 549.
Dooley, Joseph R., Mobile, Ala. Crosstie. No. 1,343,814; June 15; v. 275; p. 549.
Doonar, Louis, Bend, Oreg. Wrench. No. 1,344,265; June 22; v. 275; p. 701.
Dorsey, Philip H., Algiers, La. Cushion-wheel. No. 1,344,337; June 22; v. 275; p. 716.
Dorsk, Frank L., Baltimore, Md., assignor to Maryland Toy Manufacturing Company, Inc. Toy. No. 1,342,945; June 8; v. 275; p. 314.
Doss, Oscar J. (See Fleming, Charles R., assignor.)
Dostal, John R., assignor to H. Scarborough, Milwaukee, Wis. Fruits and vegetable pulping machine. No. 1,343,439; June 15; v. 275; p. 474.
Dougan, Kennedy, Minneapolis, Minn. Projectile. No. 1,341,844; June 1; v. 275; p. 46.
Dougherty, John M., and H. C. Tabler, St. Louis, Mo. Safety device for relief-valves. No. 1,342,667; June 8; v. 275; p. 258.
Douglas, John, Company, The. (See McNeil, John, assignor.)
Douglass, Ira C., assignor to The Pfaudler Company, Rochester, N. Y. Tank. No. 1,343,169; June 8; v. 275; p. 359.
Douglass, Napoleon B., Berkeley, Calif. Folding bed. No. 1,344,995; June 29; v. 275; p. 908.
Doust, James C., Toronto, Ontario, Canada. Mousetrap. No. 1,342,255; June 1; v. 275; p. 126.
Dovas, Nicholas A., New York, N. Y. Lid-supporter. No. 1,342,325; June 1; v. 275; p. 139.
Doviken, Charles, Brooklyn, N. Y. Rudder-position indicator. No. 1,344,622; June 29; v. 275; p. 837.
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Jones, Coulter W., assignor.)
Dowd, Peter, Globe, Ariz. Mosquito-mask. No. 1,342,277; June 1; v. 275; p. 130.
Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Six-way valve. No. 1,344,490; June 22; v. 275; p. 746.
Downing, Samuel J., and F. A. Sutherland, Millinocket, Me. Ice-cream-cone-holder insert for bags. No. 1,343,252; June 15; v. 275; p. 438.
Downs, George F., and H. F. Miller, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Port construction for metallurgical furnaces. No. 1,343,314; June 15; v. 275; p. 449.
Downs, George F., and H. F. Miller, Jr., Buffalo, N. Y.; said Miller assignor to said Downs. Port construction for metallurgical furnaces. No. 1,343,315; June 15; v. 275; p. 450.
Doxford, Robert P. (See Keller, Karl O., assignor.)
Doyle, Vernon, Seattle, Wash. Packing-tool. No. 1,341,888; June 1; v. 275; p. 54.
Doyle, William T. (See Sturtevant, T. J., and Doyle.)
Draber, Frank. (See Walden, Marcus A., assignor.)
Drake, Carrie M., Fort Dodge, Iowa. Skirt evener, tucker, hemmer, and marker. No. 1,344,871; June 29; v. 275; p. 885.
Drake, James M., Shawano, Wis. Potato-bug-trapping machine. No. 1,344,119; June 22; v. 275; p. 673.
Draper, Clare H., and J. Northrop, Hopedale, assignors to Hopedale Manufacturing Company, Milford, Mass. Filling-detector mechanism. No. 1,342,710; June 8; v. 275; p. 267.
Draper Corporation. (See Lussier, Henry, assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Skedgell, David E., assignor.)
Draper Corporation. (See Stimpson, Edward S., assignor.)
Draper Corporation. (See Towers, Jesse, assignor.)
Drayer, Ulysses S., Altoona, Pa. Wrecking, poling, wiring, lifting, and truck carrying iron for railway-cars. No. 1,341,787; June 1; v. 275; p. 35.
Dreher, Richard C., Rockville, Conn. Picking-motion for looms. No. 1,342,946; June 8; v. 275; p. 314.
Drey, Wilfred J., Carlisle, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for covering the heels of shoes. No. 1,341,737; June 1; v. 275; p. 25.
Dreyfus, Herbert D., Terre Haute, Ind. Safety device for motion-picture projectors. No. 1,342,429; June 8; v. 275; p. 213.
Drinker, Richard C., Quincy, Mass. Furnace-floor bar. No. 1,342,041; June 1; v. 275; p. 84.
Dudley, Edward F., Oak Park, assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill. Buffer for printing-presses. No. 1,344,683; June 29; v. 275; p. 849.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,342,711; June 8; v. 275; p. 267.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,344,120; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Hosiery-dyeing machine. No. 1,344,121; June 22; v. 275; p. 673.
Dudley, Howard M., Philadelphia, Pa. Fiber-treating machine. No. 1,344,122; June 22; v. 275; p. 673.
Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
Duffy, Joseph J., Chicago, Ill. Transmission mechanism. No. 1,342,587; June 8; v. 275; p. 244.
Duggan, William H. (See Gardiner, W., and Duggan.)
Duke, Harry A. (See Todhunter, R. T., Duke, and Woods.)
Dull, Raymond W., La Grange, Ill. Apparatus for screening and washing gravel. No. 1,342,990; June 8; v. 275; p. 323.
Duncan, William M., Alton, Ill. Oil-still. No. 1,342,947; June 8; v. 275; p. 315.
Dunford, William T., New York, N. Y., assignor to Shurloc Elevator Safety Co., Inc. Elevator safety system. No. 1,344,266; June 22; v. 265; p. 701.
Dunham Company, The. (See Powell, Earl J., assignor.)
Dunham, Delbert F., Los Angeles, Calif. Valve-grinder. No. 1,342,375; June 1; v. 275; p. 148.

Dunhill, Alfred, London, and T. G. Mandeville, Arnold, England. Tobacco-pipe, cigar-holder, and the like. No. 1,343,253; June 15; v. 275; p. 438.
Dunkley, Melville E., Kalamazoo, Mich. Fruit-peeling machine. No. 1,341,738; June 1; v. 275; p. 25.
Dunlap, John, Camden, S. C. Footrest. No. 1,343,119; June 8; v. 275; p. 349.
Dunlop Rubber Company, The. (See Macbeth, Colin, assignor.)
Dunn, William, Elk, Wyoming. Gearless variable-speed transmission. No. 1,343,254; June 15; v. 275; p. 438.
Dunn, William W., Henderson, N. C., and J. H. Beasley, Norfolk, Va., assignors to Seward Trunk and Bag Company, Petersburg, Va. Hanger-retaining device for wardrobe-trunks. No. 1,344,872; June 29; v. 275; p. 885.
Dunstan, Wayne E., assignor to R. Hagen, Dayton, Ohio. Tire-carrier for vehicles. No. 1,343,964; June 22; v. 275; p. 643.
Duparquet, Hout & Moneuse. (See Rice, Anson S., assignor.)
Duplex Truck Company. (See Thomas, George J., assignor.)
Duplexalite Corporation. (See White, Ernest C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Cope, Willard C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Flaherty Edmund M., assignor.)
Du Pont, E. I., de Nemours, and Company. (See Stowe, Floyd D., assignor.)
Durand Steel Locker Company. (See Vance, Walter N., assignor.)
Durant, Samuel E., New York, N. Y. Ironing-support. No. 1,342,278; June 1; v. 275; p. 131.
Durdle, Oswald, assignor to Osram-Robertson Lamp Works Limited, London, England. Means for supporting electrodes in ionic tubes. No. 1,343,551; June 15; v. 275; p. 496.
Durr, Ernest, U. S. Navy. Rotary internal-combustion engine. No. 1,343,316; June 15; v. 275; p. 450.
Duscher, Ernest, La Crosse, Wis., assignor, by mesne assignments, to Printograph Manufacturing Co., St. Paul, Minn. Filling-in attachment for printing-machines. No. 1,343,170; June 8; v. 275; p. 359.
Dusha, Paul F., New York, and A. Feyk, Bohemia, N. Y., assignors to Holub-Dusha Company, New York, N. Y. Pearl-button machine. No. 1,343,042; June 8; v. 275; p. 333.
Dustless Victory Sieve Company. (See Goddard, Walter F., assignor.)
Duttweiler, Albert M., Cambridge City, Ind. Heating device. No. 1,341,788; June 1; v. 275; p. 35.
Duvall, William J., Washington, D. C. Antiskid attachment. No. 1,341,789; June 1; v. 275; p. 35.
Dwyer, David A., London, England. Washing-machine. No. 1,342,624; June 8; v. 275; p. 250.
Dyer, Newell V., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,342,420; June 8; v. 275; p. 213.
Dykeman, Louis E., New Orleans, La. Candy-making machine. No. 1,343,120; June 8; v. 275; p. 349.
Dyson, Edward J., Colorado Springs, Colo. Snowplow. No. 1,344,794; June 29; v. 275; p. 871.
Eachus, Iredell, assignor to The Macbeth Arc Lamp Company, Inc., Philadelphia, Pa. Arc-lamp casing. No. 1,344,938; June 29; v. 275; p. 898.
Eader, John B. (See Cashman, Clarence G., assignor.)
Eads, Oscar, Okmulgee, Okla. Inking-plate. No. 1,344,026; June 22; v. 275; p. 655.
Earle, H. S., Manufacturing Co. (See Earle, Horatio S., assignor.)
Earle, Horatio S., assignor to H. S. Earle Manufacturing Co., Detroit, Mich. Handle for tools. No. 1,343,552; June 15; v. 275; p. 497.
Earney, John D., Salt Lake City, Utah. Triple-gap spark-plug. No. 1,342,431; June 8; v. 275; p. 213.
Earp, Samuel, Wallasey, England. Artificial tooth. No. 1,342,376; June 1; v. 275; p. 148.
Easting, Charles A., Birmingham, England. Wind-screen for motorcycle side cars. No. 1,343,440; June 15; v. 275; p. 474.
Eastman, Ernest A., Dayton, Ohio. Concrete construction. No. 1,344,623; June 29; v. 275; p. 837.
Eastman Kodak Company. (See Becker, Joseph, assignor.)
Eastman Kodak Company. (See Love, A. F., and Nicoletti, assignors.)
Eastman Kodak Company. (See Lovejoy, Frank W., assignor.)
Eastman Kodak Company. (See Parkinson, William J., assignor.)
Eastman Kodak Company. (See Riddell, W. A., and Pirwitz, assignors.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eastman Kodak Company. (See Snyder, Lloyd E., assignor.)
Eaton, Charles F., Jr., New York, N. Y. Average-speed meter. No. 1,343,198; June 15; v. 275; p. 428.
Eaton, Joseph E., San Francisco, Calif. Wire-fence stay. No. 1,343,770; June 15; v. 275; p. 540.
Eaton, William E., Washington, D. C., assignor to the Government of the United States. Medical pouch. No. 1,342,432; June 8; v. 275; p. 213.
Eaton, William S., Sag Harbor, N. Y. Etching-machine. No. 1,341,739; June 1; v. 275; p. 25.
Eccleston, Charles W., Los Angeles, Calif. Riffled pneumatic concentrating-table for gravitational separation of comminuted material. No. 1,343,497; June 15; v. 275; p. 485.
Eckert, Karl, Fällanden, Switzerland, assignor to H. Koch, Dietikon, Switzerland. Belt-holder for looms. No. 1,344,177; June 22; v. 275; p. 684.
Eckhard, William. (See White, J., and Eckhard.)
Eclipse Stove Company, The. (See Taylor, Thomas E., assignor.)
Eddleman, George H., Memphis, Tenn. Truss. No. 1,345,148; June 29; v. 275; p. 937.
Eddy, Charles W., East Providence, R. I. Metal-plating machine. No. 1,342,899; June 8; v. 275; p. 306.
Edeburn, Tod. (See Goetz, L. G., and Edeburn.)
Edelman, Philip E., Minneapolis, Minn. Electrochemical analytical control. No. 1,341,790; June 1; v. 275; p. 35.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Staybolt-machine. No. 1,342,534; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Cutter-head. No. 1,342,535; June 8; v. 275; p. 233.
Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Machine for making staybolts and the like. No. 1,342,536; June 8; v. 275; p. 233.
Edgar Steel Seal & Mfg. Co., The. (See Edgar, William K., assignor.)
Edgar, William K., assignor to The Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Car-seal. No. 1,344,491; June 22; v. 275; p. 747.
Edgar, William K., assignor to The Edgar Steel Seal and Mfg. Co., Lawrence, Kans. Automatic feed device. No. 1,344,492; June 22; v. 275; p. 747.
Edgerton, Roy G., Suffolk, Va. Internal-combustion-engine-testing device. No. 1,344,387; June 22; v. 275; p. 726.
Edison Storage Battery Company. (See Monahan, James F., assignor.)
Edison, Thomas A., Llewellyn Park, West Orange, assignor to New Jersey Patent Company, West Orange, N. J. Composition of matter for sound-records or the like and making same. No. 1,342,326; June 1; v. 275; p. 139.
Edman Car Door Company. (See Edman, John, assignor.)
Edman, John, assignor to Edman Car Door Company, Minneapolis, Minn. Car-door lock. No. 1,344,444; June 22; v. 275; p. 737.
Edsen, Edward, Milwaukee, Wis. Heating system. No. 1,345,149; June 29; v. 275, p. 938.
Edstrom, Arthur E., Elbow Lake, Minn. Draft attachment. No. 1,343,908; June 22; v. 275; p. 632.
Edwards, Albert J., Indianapolis, Ind. Collar-button and necktie-slide. No. 1,342,102; June 1; v. 275; p. 96.
Edwards, Henry E. (See Buch, Max, assignor.)
Edwards, Sidney G., Albany, N. Y. Perpetual calendar. No. 1,345,150; June 29; v. 275; p. 938.
Efficiency Engineering Company, The. (See Kendall, Henry E., assignor.)
Eggers, Anton C., Brooklyn, N. Y., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Pneumatic cushion. No. 1,343,357; June 15; v. 275; p. 458.
Ehlers, Robert J., Northport, N. Y. Wheel-bearing for furniture. No. 1,342,279; June 1; v. 275; p. 131.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser installation. No. 1,342,103; June 1; v. 275; p. 96.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Marine turbine installation. No. 1,343,665; June 15; v. 275; p. 519.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Heat-conserving apparatus. No. 1,343,666; June 15; v. 275; p. 519.
Eibner, Louisz, Wellington, Ohio. Rail-joint. No. 1,342,377; June 1; v. 275; p. 148.
Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
Eisemann Magneto Corporation. (See Uhl, Henry W., assignor.)
Eisenhart, Samuel S., Akron, Ohio. Nut-lock. No. 1,344,684; June 29; v. 275; p. 849.
Eisenhauer, Edward W., Jr., Los Angeles, L. F. Flormann, Silver Lake, and E. C. A. Woltmann, Los Angeles, Calif. Wood-ash furnace and extract-boiler. No. 1,341,889; June 1; v. 275; p. 54.
Eisenhauer, William, New York, N. Y. Rust-preventing solution and preparing same. No. 1,344,338; June 22; v. 275; p. 716.
Eisenmann, Carl W., Nebraska City, Nebr. Combination magnetic and electric polarity-indicator. No. 1,344,388; June 22; v. 275; p. 726.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-separator. No. 1,341,791; June 1; v. 275; p. 35.
Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-sieve. No. 1,341,792; June 1; v. 275; p. 36.

Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Sieve-cleaning device. No. 1,341,793; June 1; v. 275; p. 36.
Eklo, Olaus. (See Skinderviken, Johan, assignor.)
Electric Controller & Manufacturing Company, The. (See Canfield, Harry R., assignor.)
Electric Vapor Heater Company. (See Little, William F., assignor.)
Electric Weighing Company. (See Messiter, Edwin H., assignor.)
Electro Chemical Company, The. (See Gerstle, John, assignor.)
Electro Chemical Company, The. (See McDorman, Paul, assignor.)
Elgin Gas Motor Company. (See Thompson, Herbert L., assignor.)
Elias, Abraham J. (See Stupar, Maximilian F., assignor.)
Elkins, Abraham, Bridgeport, Conn. Ash-sifting device. No. 1,344,493; June 22; v. 275; p. 747.
Eliard, Jefferson, Texhoma, Okla. Aeroplane. No. 1,343,498; June 15; v. 275; p. 486.
Elliot, Eloise F., San Antonio, Tex., assignor of one-half to M. F. Whittlesey, New London, Conn. Shoe-securing device. No. 1,344,996; June 29; v. 275; p. 908.
Elliott Company. (See Elliott, William S., assignor.)
Elliott, William S., assignor to Elliott Company, Pittsburgh, Pa. Turbine. No. 1,342,845; June 8; v. 275; p. 295.
Ellis, Carleton, Montclair, N. J. Hydrogen-circulation process. No. 1,342,668; June 8; v. 275; p. 258.
Ellis, Carleton, Montclair, N. J. Treating fatty oils. No. 1,343,255; June 15; v. 275; p. 439.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making gas-oil. No. 1,341,975; June 1; v. 275; p. 71.
Ellis, Clark P., Conneaut Lake, Pa. Saw-set. No. 1,342,327; June 1; v. 275; p. 139.
Ellis, Clyde W., Woodbury, Ky. Egg-candler. No. 1,345,151; June 29; v. 275; p. 938.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis, George H., St. Paul, Minn. Machine for molding lath-boards. No. 1,343,909; June 22; v. 275; p. 632.
Ellis, Harry E., Leesburg, Fla. Caterpillar-tractor swamp-harvester. No. 1,344,624; June 29; v. 275; p. 838.
Ellis, Harry E., Leesburg, Fla. Apparatus and process for producing pulp. No. 1,344,625; June 29; v. 275; p. 838.
Ellis, Harry E., Leesburg, Fla. Aquatic-plant harvester. No. 1,344,626; June 29; v. 275; p. 838.
Ellis, John F., Huntington, W. Va. Laying-cabinet. No. 1,342,434; June 8; v. 275; p. 214.
Ellison, James E. (See Evans, G. A., and Ellison.)
Ellison, Oliver, Wasco, Calif. Receptacle for matches. No. 1,345,078; June 29; v. 275; p. 924.
Ellison, Thomas J., Terrill, Ky. Seed-dropping mechanism. No. 1,342,948; June 8; v. 275; p. 315.
Elmer, David H., Centerville, Calif. Fruit-cutter. No. 1,342,207; June 1; v. 275; p. 117.
Elmore, Guy H., Swarthmore, Pa. Centrifugal drier. No. 1,342,743; June 8; v. 275; p. 273.
Elton, James O., Great Falls, and R. B. Caples, Cascade, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Treating residues containing zinc, copper, and cadmium. No. 1,343,619; June 15; v. 275; p. 510.
El Vean, John A., assignor of one-half to C. A. Morrisette, Norfolk, Va. Parachute. No. 1,341,794; June 1; v. 275; p. 36.
Ely, Edwin S., *et al.* (See Clark, Cornelius S., assignor.)
Embree, Herbert, Hamilton, Ontario, Canada. Mantle-sewing machine. No. 1,342,669; June 8; v. 275; p. 258.
Emerson Phonograph Co. (See Emerson, Victor H., assignor.)
Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Co., Inc. Sound-record tablet and producing same. No. 1,341,740; June 1; v. 275; p. 25.
Emery, Frank A., Quincy, and A. A. Adams, Brookline, assignors, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,344,295; June 22; v. 275; p. 708.
Emmrick, Hans B., Giddings, Tex. Shutter-actuating apparatus. No. 1,344,997; June 29; v. 275; p. 908.
Enberg, Elmer, Aitkin, Minn. Runner for side cars. No. 1,345,321; June 29; v. 275; p. 971.
Engelmann, Edward W., and W. T. MacDonald, Hayden, Ariz. Aeration-cell for flotation apparatus. No. 1,344,123; June 22; v. 275; p. 674.
Engineering Products Corporation. (See Burlingham, William, assignor.)
Engman, Evald J., assignor to The Will & Baumer Company, Syracuse, N. Y. Hoisting apparatus for candle-finishing machines. No. 1,344,445; June 22; v. 275; p. 737.
Engman, Evald J., assignor to The Will & Baumer Company, Syracuse, N. Y. Candle-holder. No. 1,344,446; June 22; v. 275; p. 738.
Enos, Alexander, Anchorage, Alaska. Trap. No. 1,342,328; June 1; v. 275; p. 139.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Enterprise Railway Equipment Company. (See Batho, William F., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Eras, Vincent J. M., and H. J. J. M. Lips, Dordrecht, Netherlands. Fixing device of cylinder-locks. No. 1,343,712; June 15; v. 275; p. 529.
Erdos, George G., New York, N. Y. Operating trains on multitrack city railways. No. 1,345,152; June 29; v. 275; p. 938.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,342,256; June 1; v. 275; p. 126.
Ernst, George, Newark, N. J. Test-valve. No. 1,343,043; June 8; v. 275; p. 334.
Errett, Charles, New York, assignor to Public Service Cup Company, Brooklyn, N. Y. Fixture for drinking-cups. No. 1,343,965; June 22; v. 275; p. 643.
Erskine, James, Jersey City, N. J., assignor to William M. Crane Company. Heating apparatus. No. 1,342,991; June 8; v. 275; p. 323.
Erskine-Murray, James, and J. Robinson, Biggin Hill, England. Electromagnetic-wave navigational system. No. 1,342,257; June 1; v. 275; p. 126.
Eschenbrenner, Henry W. (See Eschenbrenner, William E., assignor.)
Eschenbrenner, William E., assignor of one-half to H. W. Eschenbrenner, New York, N. Y. Chair-bed. No. 1,343,044; June 8; v. 275; p. 334.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,199; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,200; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,343,201; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,203; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,204; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,206; June 15; v. 275; p. 430.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,207; June 15; v. 275; p. 430.
Eschholz, Otto H., Wilkinsburg, and H. Fahnoe, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electric-arc-welding system. No. 1,343,202; June 15; v. 275; p. 429.
Eschholz, Otto H., Wilkinsburg, and H. Fahnoe, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Alternating-current welding system. No. 1,343,205; June 15; v. 275; p. 430.
Essex Motors. (See Fekete, Stephen L., assignor.)
Essex Motors. (See Huber, Emil, assignor.)
Esteva-Ruiz & Co. (See Bone, Roberto C., assignor.)
Euard, George T., Bradford, Ill. Valve-spring lifter. No. 1,345,153; June 29; v. 275; p. 939.
Eustice, Alfred L., Chicago, Ill. Plug-fuse. No. 1,344,296; June 22; v. 275; p. 708.
Eustis, Frederic A., Milton, Mass. Preparing fine ores for sintering and product thereof. No. 1,341,890; June 1; v. 275; p. 54.
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Tension device. No. 1,343,910; June 22; v. 275; p. 633.
Evans, George A., and J. E. Ellison, Layton, Utah. Automatic scale. No. 1,342,670; June 8; v. 275; p. 259.
Evans, Howard S., Pittsburgh, Pa., assignor to Macbeth-Evans Glass Company. Refractive glass for automobile-lamps. No. 1,342,744; June 8; v. 275; p. 274.
Evans, William F., Philadelphia, assignor of one-ninth to G. D. Carney, Chester, Pa., one-ninth to N. Fiolilo, New York, and one-ninth to E. J. Arghis, Brooklyn, N. Y. Nut-lock. No. 1,341,741; June 1; v. 275; p. 25.
Evensen, Carl, Seabold, Wash. Bolting-up device. No. 1,343,667; June 15; v. 275; p. 519.
Evensen, William M., Chicago, Ill., assignor to Goss Printing Press Company. Printing-plate clamp. No. 1,344,939; June 29; v. 275; p. 898.
Everett, Howard E., Grand Rapids, Mich. Shoe-polish box. No. 1,342,537; June 8; v. 275; p. 233.
Evilsizor, John E., and C. Follrath, Springfield, Ohio. Ornament-support. No. 1,344,027; June 22; v. 275; p. 655.
Ewald, Arno A., Oakfield, Wis. Gasket for inflation-tube connections. No. 1,344,028; June 22; v. 275; p. 655.
Ewing, Charles E., Lincoln, Nebr. Soap-dispensing device. No. 1,343,815; June 15; v. 275; p. 549.
Fadeo, Frank T., assignor to Pacific Car & Foundry Co., Seattle, Wash. Device for coupling trailers to tractors. No. 1,342,949; June 8; v. 275; p. 315.
Fafnir Bearing Company, The. (See Sellew, Roland W., assignor.)
Fahl, Eugene, Wichita, Kans. Liquid-storage apparatus. No. 1,345,154; June 29; v. 275; p. 939.
Fahnoe, Hans. (See Eschholz, O. H., and Fahnoe.)
Fahnoe, Hans, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,343,208; June 15; v. 275; p. 430.
Fahrney, John J., assignor of one-half to E. M. Hoover, Timberville, Va. Tire-heater. No. 1,343,045; June 8; v. 275; p. 334.

Falchney, George H., Watertown, N. Y., assignor to The Randall-Falchney Company, Boston, Mass. Work-supporting table. No. 1,343,553; June 15; v. 275; p. 497.
Fairbanks, Morse & Co. (See Thompson, H. E., and Bunn, assignors.)
Fairchilds, George R., Holyoke, Mass., assignor to Cowan Truck Company. Motor-driven-vehicle construction. No. 1,343,358; June 15; v. 275; p. 458.
Falk Company, The. (See Day, Percy C., assignor.)
Farrand, Dudley, Newark, N. J. Pump. No. 1,342,798; June 8; v. 275; p. 286.
Farris, George R., Stanberry, Mo. Wire-stretcher. No. 1,342,625; June 8; v. 275; p. 250.
Farris, Harvey D., Spokane, Wash. Water-closet bowl. No. 1,342,016; June 1; v. 275; p. 79.
Farris, Joseph, Springfield, Ill. Furnace-joint. No. 1,342,258; June 1; v. 275; p. 127.
Farup, Peder, assignor to Titan Co. A/S. of Norway, Christiania, Norway. Producing titanium compounds. No. 1,343,441; June 15; v. 275; p. 474.
Faunce, Benjamin F., Johnstown, Pa. Adjustable mill for rolling circular sections. No. 1,341,891; June 1; v. 275; p. 54.
Fay, Bernard E., Providence, R. I. Shoe-lace-tie retainer. No. 1,344,998; June 29; v. 275; p. 908.
Fazio, James, Brooklyn, N. Y. Displaying device. No. 1,344,685; June 29; v. 275; p. 849.
Fazzari, Pietro P., Huntington, W. Va. Agricultural implement. No. 1,344,494; June 22; v. 275; p. 747.
Featheredge Rubber Company. (See Wedlock, Frank V., assignor.)
Fedders, Martin, Masury Station, Ohio. Flying-machine. No. 1,344,297; June 22; v. 275; p. 708.
Federal Adding Machine Corporation. (See Wales, Charles, assignor.)
Federal Sugar Refining Company. (See Reinhardt, James H., assignor.)
Federal Telegraph Company. (See Marx, R. G., and Fuller, assignors.)
Fegley, Thomas J., and G. O. Leopold, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Shears. No. 1,343,079; June 8; v. 275; p. 341.
Fehlman, Adolf, and G. Hintermann, Basel, Switzerland. Internal-combustion engine. No. 1,342,950; June 8; v. 275; p. 315.
Feist, Charles M., Sioux City, Iowa. Wheel-bearing. No. 1,344,495; June 22; v. 275; p. 747.
Fekete, Stephen L. (See Baits, S. G., and Fekete.)
Fekete, Stephen L., assignor, by mesne assignments, to Essex Motors, Detroit, Mich. Internal-combustion engine. No. 1,343,668; June 15; v. 275; p. 520.
Feldman, Manuel, New York, N. Y. Rug. No. 1,342,259; June 1; v. 275; p. 127.
Felsenthal Brothers & Company. (See Felsenthal, H., and Kaestner, assignors.)
Felsenthal, Henry, and L. W. Kaestner, Chicago, Ill., assignors to Felsenthal Brothers & Company. Toilet-case. No. 1,344,124; June 22; v. 275; p. 674.
Fenn, Libbie R. (See Cathrill, Jack, assignor.)
Ferguson, Isaac, Shelby, Ohio. Power hoisting and conveying machine. No. 1,343,966; June 22; v. 275; p. 643.
Ferguson, Robert F., Detroit, Mich. Lamp-bracket. No. 1,343,499; June 15; v. 275; p. 486.
Ferguson, Thomas R., and E. L. Larson, Chicago, Ill., assignors to Alfred O. Blaich Company. Carbonizing steel. No. 1,343,359; June 15; v. 275; p. 458.
Fergusson, Alan R., New York, N. Y. Indexing and recording means. No. 1,344,627; June 29; v. 275; p. 838.
Ferngren, Enoch T., Beaver, Pa. Removing glass from furnaces. No. 1,342,042; June 1; v. 275; p. 84.
Ferrell, Elmer C. (See Brumfield, James H., assignor.)
Ferry, Joseph D., Niles, Calif. Exposure-indicator. No. 1,344,873; June 29; v. 275; p. 885.
Fesler, Andrew, Detroit, Mich., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. No. 1,342,671; June 8; v. 275; p. 259.
Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. No. 1,341,892; June 1; v. 275; p. 55.
Fesler, Douglas F., Evanston, assignor to Hedman Manufacturing Company, Chicago, Ill. Check. No. 1,343,865; June 15; v. 275; p. 560.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Locating enemy-gun positions. No. 1,341,795; June 1; v. 275; p. 36.
Feyk, Anton. (See Dusha, P. F., and Feyk.)
Fickes, William A., Altoona, Pa. Carpet-sweeper. No. 1,344,389; June 22; v. 275; p. 726.
Fiddes, Oscar H. (See Wigmore, William J., and Fiddes.)
Fiege, Raymond G., Cleveland, Ohio. Automatic oiler. No. 1,344,078; June 22; v. 275; p. 665.
Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selectively-operated circuit-controlling device. No. 1,343,256; June 15; v. 275; p. 439.
Field, Millard F., and C. D. Lanning, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Mechanism for operating upon warp-threads or the like. No. 1,344,795; June 29; v. 275; p. 871.
Field, William H., Jr., Winchester, Mass. Measuring instrument. No. 1,342,992; June 8; v. 275; p. 324.
Fields, Elta E., Marion, Ohio. Combined curtain and shade support. No. 1,344,298; June 22; v. 275; p. 708.
Finch, Albert E., assignor to Belt Grip Pulley Company, Buffalo, N. Y. Caster. No. 1,342,500; June 8; v. 275; p. 226.
Fink, Colin G., East Orange, N. J., assignor to General Electric Company. Alloy. No. 1,342,993; June 8; v. 275; p. 324.
Fink, Esther B., Charleston, W. Va. Button-clasp. No. 1,342,161; June 1; v. 275; p. 108.
Fiolilo, Nicolo, *et al.* (See Evans, William F., assignor.)
Fisch, William F. L., Birmingham, Ala. Bread-making apparatus. No. 1,345,079; June 29; v. 275; p. 924.
Fischer, Adalbert, Philadelphia, Pa., assignor to Alien Property Custodian. Apparatus for burning oil. No. 1,344,029; June 22; v. 275; p. 656.
Fischer, William F., Philadelphia, Pa. Machine for forming grooves. No. 1,343,554; June 15; v. 275; p. 497.
Fisher, Carl G., *et al.* (See Kramer, Benjamin G., assignor.)
Fisher, Joseph O., U. S. Navy. Apparatus for muffling sounds. No. 1,341,976; June 1; v. 275; p. 71.
Fisher, Robert E., Chicago, Ill. Adjustable curtain-rod bracket. No. 1,341,742; June 1; v. 275; p. 26.
Fitzgerald Mfg. Co., The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Co., Inc., Torrington, Conn. Electrically-vibrated toothbrush. No. 1,342,280; June 1; v. 275; p. 131.
Fitzgerald, Patrick J., assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Bath-spray. No. 1,342,994; June 8; v. 274; p. 324.
Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,341,893; June 1; v. 275; p. 55.
Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent for use with pyroxylin and compositions containing same. No. 1,341,710; June 1; v. 275; p. 19.
Flajollet, Jean, Lyon, France. Tobacco-smoking device. No. 1,344,874; June 29; v. 275; p. 886.
Flammang, John, assignor to O. G. Stark, St. Louis, Mo. Making pistons. No. 1,344,875; June 29; v. 275; p. 886.
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt. No. 1,342,162; June 1; v. 275; p. 108.
Flattum, Albert L., Syracuse, N. Y. Aerial propeller. No. 1,344,496; June 22; v. 275; p. 748.
Fleckl, Hans, Boyds, and W. J. Boyd, Chewelah, Wash. Sleigh-runner attachment for baby-carriages and other vehicles. No. 1,343,046; June 8; v. 275; p. 334.
Flegel, Harrison D., assignor to Hamilton-Beach Mfg. Co., Racine, Wis. Foot-controlled electric governor. No. 1,345,080; June 29; v. 275; p. 924.
Flegel, Harrison D., Racine, Wis. Pen attachment for pencils. No. 1,345,155; June 29; v. 275; p. 939.
Fleming, Charles R., assignor of one-third to O. J. Doss, Hoberg, Mo. Piano-violin. No. 1,344,497; June 22; v. 275; p. 748.
Fleming, James R., *et al.* (See Miller, Lorin O., assignor.)
Fleming, John A., New York, N. Y. Aircraft having inherent stability. No. 1,344,999; June 29; v. 275; p. 909.
Fletcher, Alexander. (See Alles, F. W., Fletcher, and Hitchens.)
Fletcher, George, & Company. (See Miller, James, assignor.)
Fletcher, Joseph C., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Tool-holder. No. 1,343,257; June 15; v. 275; p. 439.
Flint, Frederick P., Ponders End, England. Two-stroke internal-combustion engine. No. 1,342,105; June 1; v. 275; p. 97.
Flint, John, Newport News, Va. Stove. No. 1,342,163; June 1; v. 275; p. 108.
Flintkote Manufacturing Company. (See Overbury, Frederick C., assignor.)
Flormann, Louis F. (See Eisenhauer, E. W., Flormann, and Waltmann.)
Flurscheim, Bernhard J., assignor to Aetna Explosives Company, Inc., New York, N. Y. Stabilizing nitrostarch. No. 1,343,317; June 15; v. 275; p. 450.
Flynn, Dennis J., New Brunswick, N. J. Cementitious structure. No. 1,345,156; June 29; v. 275; p. 929.
Foans, Andrew B., New York, N. Y. Wagon-rocker. No. 1,345,322; June 29; v. 275; p. 972.
Follrath, Carl. (See Evilsizor, J. E., and Follrath.)
Foote, Theodore M., Allston, assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,344,339; June 22; v. 275; p. 716.
Ford, Ben K., East Orange, N. J. Duplex board. No. 1,345,081; June 29; v. 275; p. 924.
Ford, Eardley H. (See Baker, R. E., Ford, and Harber.)
Foreman, Lloyd M., Belva, W. Va. Temporary track for mine-cars. No. 1,342,281; June 1; v. 275; p. 131.
Forge Products Corporation. (See Waters, James P., assignor.)

Formby, George M., Jacksonville, Fla. Firearm. No. 1,343,444; June 15; v. 275; p. 475.
Forse, William H., Jr., Anderson, Ind. Window-shade hanger. No. 1,343,771; June 15; v. 275; p. 540.
Forsyth Dyeing Co., The. (See Bolton, John T., assignor.)
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,344,759; June 29; v. 275; p. 864.
Forton, Frank, Washburn, Wis. Spike-puller. No. 1,344,628; June 29; v. 275; p. 838.
Fosston-Carpenter Company. (See Ek, Nels G., assignor.)
Foster, Harry C. (See De Martin, C. L., and Foster.)
Foster, Marcellus. (See Pope, Turner T., assignor.)
Foster, Walter H. (See Eden, James A., Jr., assignor.)
Foster, William H., Bayside, N. Y. Journal-box. No. 1,342,164; June 1; v. 275; p. 109.
Fouch, James R., Los Angeles, Calif. Tractor. No. 1,342,401; June 1; v. 275; p. 153.
Fowler, Lewis D., assignor of one-half to J. M. Postelle, Oklahoma, Okla. Pliers. No. 1,344,629; June 29; v. 275; p. 839.
Fox, Albert C., Lamar, Colo. Writing attachment for automobile steering-wheels. No. 1,344,498; June 22; v. 275; p. 748.
Fox, Frank H. (See Wallace, P. B., and Fox.)
Fox, Harold E., Newtown, Sydney, New South Wales, Australia. Spring-roller blind. No. 1,342,017; June 1; v. 275; p. 79.
Fox, Robert W., West Frankfort, Ill. Button. No. 1,343,080; June 8; v. 275; p. 341.
Francisco, Marshall E., assignor of one-half to M. K. Wild, Fresno, Calif. Adjustable windshield-mirror. No. 1,345,157; June 29; v. 275; p. 939.
Francke Co., The. (See Francke, William J., assignor.)
Francke William J., assignor to The Francke Co., Highland Park, N. J. Flexible coupling. No. 1,343,121; June 8; v. 275; p. 349.
Frank, Harry S., St. Louis, Mo. Machine for manufacturing piston-rings. No. 1,345,000; June 29; v. 275; p. 909.
Frank, Henry L. A., Plainview, Tex. Display device. No. 1,345,158; June 29; v. 275; p. 940.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,342,995; June 8; v. 275; p. 324.
Frank, Otto H., Brooklyn, N. Y. Belt-rack for supporting articles. No. 1,342,626; June 8; v. 275; p. 250
Franklin, Iva A., and S. E. Mangum, Moody, Tex. Cultivator-tongue. No. 1,343,258; June 15; v. 275; p. 439.
Franklin, John F., Dlo, Miss. Gear. No. 1,343,047; June 8; v. 275; p. 334.
Franklin Railway Supply Company. (See Stafford, Hal R., assignor.)
Frazer, Joseph C. W., Baltimore, Md., and C. C. Scallone, Washington, D. C. Catalyst and making it. No. 1,345,323; June 29; v. 275; p. 972.
Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Controlling mechanism for player-pianos and the like. No. 1,343,442; June 15; v. 275; p. 475.
Fredrickson, Carl G., Waltham, Mass. Engine-primer. No. 1,343,555; June 15; v. 275; p. 497.
Free, Edward E., Baltimore, Md., assignor to National Sulphur Company, New York, N. Y. Method and apparatus for preventing the spread of fire. No. 1,344,630; June 29; v. 275; p. 839.
Free, William C., Rockford, Ill. Sewing-machine. No. 1,342,435; June 8; v. 275; p. 214.
Freedlander, Abraham L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Printing-roller composition. No. 1,344,631; June 29; v. 275; p. 839.
Freeland, Lloyd D., Halbrite, Saskatchewan, Canada, assignor to W. J. H. Strong, Chicago, Ill. Hot-air motor. No. 1,342,501; June 8; v. 275; p. 226.
Freeman, James H., Salida, Colo. Flying-machine. No. 1,345,159; June 29; v. 275; p. 940.
Freeman, Jones L., assignor of two-fifths to E. H. Hendricks, Philadelphia, Pa. Chimney. No. 1,342,329; June 1; v. 275; p. 140.
Freeman, Ogden A., Rockwood, Colo. Rotary vegetable-slicer. No. 1,341,894; June 1; v. 275; p. 55.
Freeth, Francis A., Sandiway, and H. E. Cocksedge, London, England. Removal of sodium sulfate from solution. No. 1,343,443; June 15; v. 275; p. 475.
French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
Freygang, Walter H., Weehawken, W. Kidde, Montclair, and B. G. Worth, West Orange, N. J., assignors to W. Kidde & Company. Marine fire-indicating system. No. 1,343,911; June 22; v. 275; p. 633.
Frick, Benjamine H., Ada, Okla. Reinforced ice-cream tub. No. 1,344,876; June 29; v. 275; p. 886.
Frick, Frederick F. (See,Laist, F., and Frick.)
Friedman, Bernhard, New York, and S. Friedman, Brooklyn, N. Y. Tumbling apparatus for furs. No. 1,343,816; June 15; v. 275; p. 549.
Friedman, Jack, New York, N. Y. Wood and metal polish. No. 1,343 259; June 15; v. 275; p. 439.
Friedman, Samuel. (See Friedman, Bernard and S.)
Friendly, Herbert M., and A. E. Burns, Portland, Oreg.; said Burns assignor to said Friendly. Toll-telephone-switching apparatus. No. 1,342,260; June 1; v. 275; p. 127.
Fries, Edward, Moores, Pa. Box for forming molds. No. 1,345,160; June 29; v. 275; p. 940.
Fries, Edward, Moores, Pa. Pit-flask for castings. No. 1,345,161; June 29; v. 275; p. 940.
Fries, Edward, Moores, Pa. Preparing molds for casting. No. 1,345,162; June 29; v. 275; p. 940.
Fries, John W., Winston-Salem, N. C. Method and product for dyeing textile fabric. No. 1,341,637; June 1; v. 275; p. 5.
Friesen, John, Lehigh, Kans. Tire-guard. No. 1,345,163; June 29; v. 275; p. 941.
Fripp, Francis E. B., Brockenhurst, England, assignor to C. H. Gordon, Christchurch, New Zealand. Apparatus for cutting tapered elliptical holes. No. 1,342,261; June 1; v. 275; p. 127.
Fritz, John H. (See Green, J. R., and Fritz.)
Fritzsche, George H., Brooklyn, assignor to Taplex Corporation, New York, N. Y. Fuel and producing same. No. 1,342,799; June 8; v. 275; p. 286.
Frost, Frederick E., Worcester, Mass. Rubber-stamp attachment. No. 1,344,079; June 22; v. 275; p. 665.
Frost, Robert T., St. Paul, Minn., assignor of one-half to A. E. Johnson, Waterloo, Iowa. Package-opening means. No. 1,343,360; June 15; v. 275; p. 458.
Fry, Jesse E. (See Dickson, B. H., and Fry.)
Fry, John A., assignor to Detroit Stove Works, Detroit, Mich. Gas-burner. No. 1,342,436; June 8; v. 275; p. 214.
Fuhrmann, Warren. (See Powers, T. B., and Fuhrmann.)
Fulda, Edwaro, New York, N. Y. Process and product of electric welding. No 1,344,125; June 22; v. 275; p. 674.
Fuller, Clarence W., Yonkers, N. Y. Dental massage and polishing appliance. No. 1,343,713; June 15; v. 275; p. 529.
Fuller, James W., Catasauqua, Pa., assignor to Fuller-Lehigh Company. Pulverizer-mill. No. 1,345,082; June 29; v. 275; p. 925.
Fuller-Lehigh Company. (See Fuller, James W., assignor.)
Fuller, Leonard F. (See Marx, R. G., and Fuller.)
Fully, Fred G., assignor of forty per cent. to J. H. Dix, Portland, Oreg. Coating composition. No. 1,344,686; June 29; v. 275; p. 850.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton-Kenova Mine Car Company, The. (See Streby, Ray D., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Pressure-gage. No. 1,344,340; June 22; v. 275; p. 716.
Funderburk Otis C., Detroit, Mich., assignor to Murray & Tregurtha Company, Boston, Mass. Oil-cooling apparatus. No. 1,343,669; June 15; v. 275; p. 520.
Funk, Rufus B., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Centering scale or rule for centering typewritten or other work. No. 1,343,912; June 22; v. 275; p. 633.
Funkhouser, Luther G. (See Krusemark, F. A., Funkhouser, and Carpenter.)
Furber, Percy N. (See Arbuthnot, John, assignor.)
Furstonburg, Henry B., Shreveport, La. Lateral-take-up device for locomotive-axles. No. 1,344,267; June 22; v. 275; p. 702.
Gabbett-Fairfax, Hugh W., London, England. Automatic firearm. No. 1,344,499; June 22; v. 275; p. 748.
Gabel, Thomas R. (See Holdaway, H. H., and Gabel.)
Gaffers, Herman B., Watervliet, N. Y. Brace or knee. No. 1,343,445; June 15; v. 275; p. 475.
Gagné, William G., Boston, Mass. Collapsible swivel-leg. No. 1,342,951; June 8; v. 275; p. 316.
Gagnon, Simeon, assignor of one-half to A. Pilon, Montreal, Quebec, Canada. Dispenser. No. 1,341,711; June 1; v. 275; p. 19.
Gahl, Rudolf, Miami, Ariz., and R. M. Haskell, Lake Linden, Mich.; said Gahl assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Ore-flotation apparatus. No. 1,343,123; June 8; v. 275; p. 350.
Gainer, Simon, Chicago, Ill. Sectional spring. No. 1,343,620; June 15; v. 275; p. 510.
Gaines, Vincent S., Webster Groves, Mo., assignor to B. F. Bain, Pittsburgh, Pa. Mechanical toy. (Reissue.) No. 14,902; June 29; v. 275; p. 975.
Galbreath, Hal. P., Poplar Bluff, Mo. Collapsible coop. No. 1,344,877; June 29; v. 275; p. 886.
Gallbert, Maurice, New York, N. Y. Labeling containers. No. 1,344,080; June 22; v. 275; p. 665.
Gallbert, Maurice, New York, N. Y. Labeling-machine. No. 1,344,081; June 22; v. 275; p. 666.
Gallup, Hermann C., Dallas, Tex. Lawn-swing. No. 1,343,124; June 8; v. 275; p. 350.
Gamble, Austin A., assignor to G. B. Gamble, Artesia, Calif. Wire-twisting device. No. 1,341,895; June 1; v. 275; p. 55.
Gamble, Guy B. (See Gamble, Austin A., assignor.)
Gans, Robert S., New York, N. Y. Loading-indicator for vehicles. No. 1,343,556; June 15; v. 275; p. 497.
Gardiner, William, Chicago, Ill. Storage-battery construction. No. 1,342,952; June 8; v. 275; p. 316.
Gardiner, William, Chicago, Ill. Cover for storage batteries. No. 1,342,954; June 8; v. 275; p. 316.
Gardiner, William, and W. H. Duggan, Chicago, Ill. Active material for battery-plates. No. 1,342,953; June 8; v. 275; p. 316.

Garilus, Bernt, and F. W. Knott, assignors to Detroit Belt Lacer Company, Detroit, Mich. Method and machine for forming ganged belt-fastening hooks. No. 1,342,712; June 8; v. 275; p. 267.
Garner, Ernest P., Charleston, S. C. Building construction. No. 1,345,164; June 29; v. 275; p. 941.
Garred-Cavers Corporation. (See Cavers, Thomas W., assignor.)
Garver, Charles W., Ashland, Ohio. Fountain-pen cleaner. No. 1,343,621; June 15; v. 275; p. 510.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,342,800; June 8; v. 275; p. 286.
Gates, Charles C., assignor, by mesne assignments, to The Gates Rubber Company, Denver, Colo. Belt-making process. (Reissue.) No. 14,875; June 8; v. 275; p. 362.
Gates, John W., Montreal, Quebec, Canada. Furnace construction. No. 1,341,896; June 1; v. 275; p. 55.
Gates, John W., Montreal, Quebec, Canada. Furnace construction. No. 1,341,977; June 1; v. 275; p. 71.
Gates, Philetus W., Chicago, Ill., assignor to Mumford Molding Machine Company, Jersey City, N. J. Molding-machine. No. 1,344,126; June 22; v. 275; p. 674.
Gates, Quincy A., Wilkes-Barre, Pa. Jar-closure. No. 1,341,897; June 1; v. 275; p. 56.
Gates Rubber Company, The. (Reissue.) (See Gates, Charles C., assignor.)
Gates Rubber Company, The. (See Yelm, Charles W., assignor.)
Gaunt, James, and D. Brookfield, London, England. Smelting furnace and the like. No. 1,344,878; June 29; v. 275; p. 886.
Gavin, William H., assignor to Pratt-Low Preserving Co., Santa Clara, Calif. Operator's seat for cannery-tables. No. 1,344,940; June 29; v. 275; p. 898.
Gay, William B. D., Brookline, Mass. Ordnance device. No. 1,343,557; June 15; v. 275; p. 498.
Gayle, Samuel L., Baskerville, Va. Road-guide. No. 1,344,268; June 22; v. 275; p. 702.
Gearing, Charles M., Hartford, assignor to The New Departure Manufacturing Company, Bristol, Conn. Gage. No. 1,341,978; June 1; v. 275; p. 71.
Gebauer, Charles L., Cleveland, Ohio. Producing metal bodies. No. 1,342,801; June 8; v. 275; p. 286.
Gebhardt, Henry J., Chicago, Ill. Valve. No. 1,342,955; June 8; v. 275; p. 316.
Geer, Rayfield, Columbus, Ohio. Lamp. No. 1,342,330; June 1; v. 275; p. 140.
Gell, James, Branford, Conn. Wrench. No. 1,341,712; June 1; v. 275; p. 19.
Gellis, Samuel, New York, N. Y. Combination ladder and ironing-table. No. 1,343,500; June 15; v. 275; p. 486.
Gemmer Manufacturing Company. (See Ragan, Frederick H., assignor.)
Gendar, Harry W., Lost Hills, Calif. Oil-well meter and sampler. No. 1,341,898; June 1; v. 275; p. 56.
Gendreau, Auguste, assignor of one-half to T. Beaudette, Bemidji, Minn. Logging car or sleigh. No. 1,343,772; June 15; v. 275; p. 540.
General Ceramics Company. (See Scharl, John, assignor.)
General Electric Company. (See Barton, Theophilus F., assignor.)
General Electric Company. (See Collins, Edgar F., assignor.)
General Electric Company. (See Dantsizen, Christian, assignor.)
General Electric Company. (See Fink, Colin G., assignor.)
General Electric Company. (See Frank, John J., assignor.)
General Electric Company. (See Gillett, Walter, assignor.)
General Electric Company. (See Hutt, Leonard P., assignor.)
General Electric Company. (See Johannesen, Svend E., assignor.) (Reissue.)
General Electric Company. (See Wedmore, Edmund B., assignor.)
General Electric Company. (See Zimmer, Paul H., assignor.)
General Pressed Steel Metal Company. (See Banes, Walter D., assignor.)
General Railway Signal Company. (See Leake, Richard C., assignor.)
Genn, John E., assignor to Stewart-Warner-Speedometer Corporation, Chicago, Ill. Portable signal device. No. 1,344,082; June 22; v. 275; p. 666.
Georgeson, William J., Oneonta, N. Y. Motor-driven gearing. No. 1,342,262; June 1; v. 275; p. 127.
Geraghty, John P., Jersey City, N. J. Permutation-lock. No. 1,343,048; June 8; v. 275; p. 335.
Geraghty, John P., Jersey City, N. J. Locking device for automobiles. No. 1,343,049; June 8; v. 275; p. 335.
Gerke, Joseph and N., and E. C. Williams, Milwaukee, Wis. Indicator for automobiles. No. 1,343,361; June 15; v. 275; p. 459.
Gerke, Nicholas. (See Gerke, J. and N., and Williams.)
Gerli, Paul, and O. A. Ross, New York, N. Y. Artillery-airplane or the like. No. 1,342,802; June 8; v. 275; p. 286.
Gerli, Paul, and O. A. Ross, New York, N. Y. Apparatus for reclaiming solvents. No. 1,345,083; June 29; v. 275; p. 925.
Germproof Cup Corporation. (See Avery, B. B., and Nelson, assignors.)
Germproof Cup Corporation. (See Avery, Benjamin B., assignor.)
Gernsbacher, Aaron H., New Orleans, La. Safe. No. 1,341,899; June 1; v. 275; p. 56.
Gerstle, John, assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,342,378; June 1; v. 275; p. 149.
Giacoletto, Savino, Hancock, Mich. Brake. No. 1,345,165; June 29; v. 275; p. 941.
Giardino, Anthony, Brockton, Mass. Clasp. No. 1,344,500; June 22; v. 275; p. 748.
Gibbs, Alonzo L., assignor of one-half to O. W. Munch, Wagoner, Okla. Refrigerating-machine. No. 1,345,091; June 29; v. 275; p. 909.
Giblin, Thomas P., Pawtucket, assignor to Commercial Radio Company of America, Providence, R. I. Electrical coil. No. 1,342,209; June 1; v. 275; p. 117.
Gibson, David L., Parnell, Auckland, New Zealand. Skip for hauling coal and other cargo. No. 1,342,018; June 1; v. 275; p. 79.
Gibson, Francis W., West Roxbury, Mass. Signboard. No. 1,342,538; June 8; v. 275; p. 234.
Gibson, William W., San Francisco, Calif. Gyratory crushing-mill. No. 1,344,584; June 22; v. 275; p. 765.
Gietzen, Peter J., Glen Ullin, N. D. Tractor. No. 1,345,166; June 29; v. 275; p. 941.
Giffin, John M. (See Roberts, F., and Giffin.)
Gifford-Wood Company. (See Wood, Harold B., assignor.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy submarine. No. 1,344,632; June 29; v. 275; p. 839.
Gilbert, Fred B., Modesto, Calif. Feeding device. No. 1,343,817; June 15; v. 275; p. 549.
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gilkes, Gilbert, & Company, (Ltd.) (See Bennett, George H., assignor.)
Gillespie, Edward S., Detroit, Mich. Coloring moving-picture films. No. 1,342,803; June 8; v. 275; p. 287.
Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield-cleaner. No. 1,345,167; June 29; v. 275; p. 942.
Gillett, Walter, East Cleveland, Ohio, assignor to General Electric Company. Apparatus for measuring and sorting rods. No. 1,344,941; June 29; v. 275; p. 898.
Gillette, William W., Gloversville, N. Y. Boiler. No. 1,342,672; June 8; v. 275; p. 259.
Gilmore, Earl L., assignor to Vitaslide Company, San Francisco, Calif. Projector. No. 1,345,084; June 29; v. 275; p. 925.
Gilpin, Victor C., and J. E. McAuliffe, Brooklyn, N. Y. Fabric conduit. No. 1,344,501; June 22; v. 275; p. 749.
Gilson, Henry R., New Rochelle, N. Y., assignor to New York Belting & Packing Company. Hose-coupling. No. 1,343,967; June 22; v. 275; p. 643.
Gindrat, Louis R., assignor to The Cigar Machine Corporation of America, Baltimore, Md. Machine for applying paper molds to cigar-bunches. No. 1,343,125; June 8; v. 275; p. 350.
Girardi, Frank. (See Basil, J., and Girardi.)
Gist, Roger, assignor of one-half to B. F. Blackmon, San Francisco, Calif. Clothesline-holder. No. 1,345,324; June 29; v. 275; p. 972.
Given, Guy C., H. S. McQuaid, and R. A. Long, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Manufacturing ammonium perchlorate from sodium perchlorate and ammonium sulfate. No. 1,342,956; June 8; v. 275; p. 316.
Glanding, Tristram, Philadelphia, Pa., assignor to William R. Noe & Sons, New York, N. Y. Support for shade-holders. No. 1,341,845; June 1; v. 275; p. 46.
Glaudel, George, Los Angeles, Calif. Auxiliary windshield. No. 1,343,318; June 15; v. 275; p. 450.
Glaze, Herbert L. (See Routt, O. L., McConnell, and Glaze.)
Gleason, Frederick J., Walpole, Mass. Brake-lining. No. 1,342,043; June 1; v. 275; p. 84.
Gleason, James E., A. L. Stewart, and E. C. Head, assignors to The Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,344,879; June 29; v. 275; p. 887.
Gleason, Marshall W., Brooklyn, assignor to Gleason Tiebout Glass Co., New York, N. Y. Laminated glass. No. 1,342,282; June 1; v. 275; p. 131.
Gleason Tiebout Glass Co. (See Gleason, Marshall W., assignor.)
Gleason Works, The. (See Gleason, J. E., Stewart, and Head, assignors.)
Glidden, Walter J., Southboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,342,165; June 1; v. 275; p. 109.
Globe Automatic Sprinkler Company, The. (See Dawson, Josiah, assignor.)
Gmys, Andrew A. (See Kaminski, Albert, assignor.)
Goben, Edward F., Muskogee, assignor of one-half to P. R. Allen, McAlester, Okla. Rail-bender. No. 1,342,263; June 1; v. 275; p. 128.
Goddard, Joseph, assignor to Seneca Camera Mfg. Co., Rochester, N. Y. Plate-holder for photographic cameras. No. 1,343,773; June 15; v. 275; p. 541.

Goddard, Walter F., Somerville, assignor to Dustless Victory Sieve Company, Boston, Mass. Ash-sifter. No. 1,344,390; June 22; v. 275; p. 726.
Goddard, Walter T., Hamilton, Ontario, Canada, assignor to The Locke Insulator Mfg. Co., Victor, N. Y. Insulator. (Reissue.) No. 148,888; June 22; v. 275; p. 770.
Goddard, William E., Watertown, Wis. Nursing-bottle. No. 1,344,760; June 29; v. 275; p. 864.
Goe, Harold H., Anaconda, Mont. Brick-machine. No. 1,344,880; June 29; v. 275; p. 887.
Goeke, George A., Waukon, Iowa. Compression-release. No. 1,343,501; June 15; v. 275; p. 486.
Goetz, Louis G., and T. Edeburn, assignors to The Adams-Bagnall Electric Company, Cleveland, Ohio. Tiltable reflector for head-lamps. No. 1,344,687; June 29; v. 275; p. 850.
Gogay, Henry R., Columbus, Ohio. Metallic receptacle. No. 1,341,638; June 1; v. 275; p. 5.
Going, William J., Amsterdam, N. Y., assignor, by mesne assignments, to The Klauder-Weldon Dyeing Machine Company, Jenkintown, Pa. Dyeing-machine. No. 1,343,260; June 15; v. 275; p. 439.
Goke, Paul J. (See Betts, A. R., and Goke.)
Golden, Abe, *et al.* (See Scholes, Edmond P., assignor.)
Goldfarb, Nathan J., Brooklyn, and B. Sacks, New York, N. Y. Cloth-cutter. No. 1,342,210; June 1; v. 275; p. 118.
Goldie, William, Wilkinsburg, Pa. Reinforcing means for concrete structures. No. 1,344,881; June 29; v. 275; p. 887.
Goldie, William, Wilkinsburg, Pa. Reinforcing structure for concrete. No. 1,344,882; June 29; v. 275; p. 887.
Goldie, William, Wilkinsburg, Pa. Reinforcing means for concrete structures. No. 1,344,942; June 29; v. 275; p. 898.
Goldschmidt, Victor M. (See Neilsen, R., and Goldschmidt.)
Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Pigment and its manufacture. No. 1,343,446; June 15; v. 275; p. 475.
Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Pigment containing titanium-oxygen compound. No. 1,343,447; June 15; v. 275; p. 475.
Goldsmith, David, Newark, N. J. Garment-hanger. No. 1,344,391; June 22; v. 275; p. 726.
Goldsmith, L., & Son. (See Osterweil, Sydney, assignor.)
Goldsmith, Mary L., The Plains, Va. Corn-thinner. No. 1,343,558; June 15; v. 275; p. 498.
Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,341,846; June 1; v. 275; p. 46.
Good Inventions Co. (See Good, John, assignor.)
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Confined-combustion method. No. 1,342,901; June 8; v. 275; p. 306.
Goodle, Frank J., Dover, N. H. Combination protractor, bevel, and level. No. 1,344,269; June 22; v. 275; p. 702.
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodman, Samuel, Brooklyn, N. Y. Heating device. No. 1,343,670; June 15; v. 275; p. 520.
Goodrich, B. F., Company, The. (See Freedlander, Abraham L., assignor.)
Goodrich, B. F., Company, The. (See McConnell, Shank, assignor.)
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,342,902; June 8; v. 275; p. 306.
Goodwin, Charles, East Providence, assignor to E. W. Martin, Barrington, Laurence C. Martin, Providence, R. I., and G. W. Bleecker, Chicago, Ill., trustees. Lens-grinding machine. No. 1,343,050; June 8; v. 275; p. 335.
Goodwin, Frank C., Portsmouth, Ohio. Tooth having an interchangeable facing. No. 1,342,379; June 1; v. 275; p. 149.
Goodyear's India Rubber Glove Manufacturing Company, The. (See Eggers, Anton C., assignor.)
Goodyear's Metallic Rubber Shoe Company, The. (See Price, Raymond B., assignor.)
Gordon, Colin H. (See Tripp, Francis E. B., assignor.)
Gordon, James C., Monmouth, Ill. Barrel-cart. No. 1,342,437; June 8; v. 275; p. 214.
Gore, Jacob L., assignor of one-half to J. M. Warren, Hugo, Okla. Station-indicator. No. 1,342,283; June 1; v. 275; p. 131.
Gorman, Horace A., New York, N. Y. Mechanical movement. No. 1,342,019; June 1; v. 275; p. 79.
Gorman, John F., Portland, Oreg. Clutch. No. 1,341,796; June 1; v. 275; p. 36.
Gorsuch, George J. (See Boulton, G., and Gorsuch.)
Goschke, William E., Lowellville, Ohio. Musical toy. No. 1,345,085; June 29; v. 275; p. 925.
Gosline, Harold L., Worcester, Mass. Freezing attachment for microtomes. No. 1,343,051; June 8; v. 275; p. 335.
Goss, Charles E. (See Goss, George W. and C. E.)
Goss, George W., Lubbock, assignor to Pneumatic Pump Company, Dallas, Tex. Pneumatic pump. No. 1,344,883; June 29; v. 275; p. 887.
Goss, George W. and C. E., Baltimore, Ohio. Farm-gate. No. 1,343,559; June 15; v. 275; p. 498.
Goss Printing Press Company. (See Evensen, William M., assignor.)
Gottschalk, John J., Taunton, Mass. Coat-hanger. No. 1,342,166; June 1; v. 275; p. 109.
Gould Coupler Company. (See Creveling, John L., assignor.)
Gould Coupler Company. (See Hartmann, Carl, assignor.)
Gould, Edwin J., Fruitvale, Calif. Shock-absorbing wheel. No. 1,343,774; June 15; v. 275; p. 541.
Gould Storage Battery Co. (See Chamberlain, Rufus N., assignor.)
Government of the United States. (See Eaton, William E., assignor.)
Grabe, Georg, Nikolassee, near Berlin, Germany, assignor to Siemens & Halske, A. G., Berlin, Germany. Telephone system. No. 1,343,714; June 15; v. 275; p. 529.
Grablec, Louis, Muskegon, Mich. Collar-support. No. 1,342,106; June 1; v. 275; p. 97.
Grace, Edward S., New York, N. Y. Automobile-theft-indicating device. No. 1,342,044; June 1; v. 275; p. 85.
Graff, Louis J., Pittsburgh, Pa. Wall-furring strip for steel ceilings. No. 1,345,002; June 29; v. 275; p. 909.
Graffunder, Saraha A., assignor to Home Gas Appliance Co., Tacoma, Wash. Oil-burner. No. 1,341,797; June 1; v. 275; p. 37.
Graham, Bert O., Cordova, Alaska. Fly-swatter. No. 1,344,943; June 29; v. 275; p. 899.
Graham, Charles W., Huntington, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,343,913; June 22; v. 275; p. 634.
Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Manufacturing gasket-lined can ends and apparatus therefor. No. 1,343,914; June 22; v. 275; p. 634.
Graham, Edward A., Brockley, London, England. Electrical signaling or indicating apparatus especially applicable for signaling orders and numerical data. No. 1,343,362; June 15; v. 275; p. 459.
Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Apparatus for making bricks. No. 1,341,798; June 1; v. 275; p. 37.
Graham, Thaddeus S., Los Angeles, Calif. Duplex needle-plate for sole-stitching machines. No. 1,342,903; June 8; v. 275; p. 306.
Grammich, Frank, Brooklyn, N. Y. Shelf. No. 1,343,818; June 15; v. 275; p. 549.
Grant, Alexander W. (See Beaudet, Edmond P., assignor.)
Grant, Thomas H., Englewood, N. J. Golf-club. No. 1,343,998; June 22; v. 275; p. 650.
Grant, Willburn C., Abilene, Tex. Ice-machine. No. 1,344,502; June 22; v. 275; p. 749.
Graphoscope Company, The. (See Jenkins, Charles F., assignor.)
Graske, August, Omaha, Nebr. Grip for bow-ties. No. 1,343,623; June 15; v. 275; p. 510.
Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Resistance welding. No. 1,342,957; June 8; v. 275; p. 316.
Gray, George F., Washington, D. C. Knockdown mast. No. 1,342,847; June 8; v. 275; p. 295.
Gray, Joseph P., Los Angeles, Calif. Side-curtain holder. No. 1,345,086; June 29; v. 275; p. 925.
Gray, Samuel, Oregon City, Oreg. Washing-machine. No. 1,345,003; June 29; v. 275; p. 909.
Graydon, Alexander, *et al.*, trustees. (See Brown, Lloyd, assignor.)
Graydon, Thomas H., Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sole-cutting machine. (Reissue.) No. 14,876; June 8; v. 275; p. 362.
Green, John R., and J. H. Fritz, Baxter Springs, Kans. Automobile-identification device. No. 1,342,627; June 8; v. 275; p. 250.
Green, Van Ness. (See Johnson, A. R., and Green.)
Green, Walter R., Chicago, Ill. Adjustable tire-carrier. No. 1,344,202; June 22; v. 275; p. 689.
Green, Walter R., Chicago, Ill. Adjustable tire-carrier. No. 1,344,944; June 29; v. 275; p. 899.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,342,804; June 8; v. 275; p. 287.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,344,030; June 22; v. 275; p. 656.
Greenawalt, William E., Denver, Colo. Treating liquids with gases. No. 1,344,031; June 22; v. 275; p. 656.
Greenawalt, William E., Denver, Colo. Metallurgical process. No. 1,344,127; June 22; v. 275; p. 674.
Greenberg, Jacob, *et al.* (See Mallove, Morris, assignor.)
Greene, Lemuel A., Greenville, S. C. Motor-driven agricultural machine. No. 1,343,866; June 15; v. 275; p. 560.
Greenewalt, Mary H., Philadelphia, Pa. Illuminating means. No. 1,345,168; June 29; v. 275; p. 942.
Greenfield, Edwin T., deceased, Yonkers, N. Y.; M. E. Greenfield, administratrix. Pipe and means for connecting same. No. 1,344,032; June 22; v. 275; p. 656.
Greenfield, Mary E., administratrix. (See Greenfield, Edwin T., assignor.)
Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lubricating system for lathe-headstocks. No. 1,342,904; June 8; v. 275; p. 307.

Greer, James H., Robinson, Kans. Trap. No. 1,343,502; June 15; v. 275; p. 486.
Grems, Glen S. (See Vandenburgh, W. E., and Grems.)
Grenci, Bruno, Clifton City, N. J. Fluid-pipe coupling. No. 1,343,819; June 15; v. 275; p. 550.
Grenzfelder, Julius M., St. Louis, Mo. Quick-adjustable screw-wrench. No. 1,343,448; June 15; v. 275; p. 475.
Grieve, Richard P., Boston, Mass. Internal-combustion engine. No. 1,345,169; June 29; v. 275; p. 942.
Griffin, John F., *et al.* (See Mentzer, Claude E., assignor.)
Griffin, John P., New York, N. Y. Ash-tray. No. 1,342,805; June 8; v. 275; p. 287.
Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Conveyer-conduit. No. 1,342,167; June 1; v. 275; p. 109.
Griffith, John W., San Francisco, Calif. Writing-position penholder. No. 1,341,847; June 1; v. 275; p. 46.
Griffiths, William U., Philadelphia, Pa. Safety device for operating flush-tank valves. No. 1,343,261; June 15; v. 275; p. 440.
Griffiths, William U., Philadelphia, Pa. Interlocking flush-tank lever and fulcrum. No. 1,344,128; June 22; v. 275; p. 675.
Grigsby, Ruby J., Heflin, La. Valve-controlling device. No. 1,344,633; June 29; v. 275; p. 839.
Grimm, Clayford T., Adrian, W. Va. Tie-plate. No. 1,343,262; June 15; v. 275; p. 440.
Griner, Robert N., Kokomo, Ind. Pouring vessel. No. 1,344,688; June 29; v. 275; p. 850.
Griswold, G. W. (See Stubbs, Robert A., assignor.)
Griswold, John W. (See Buell, W. C., Jr., and Griswold.)
Griswold Manufacturing Company. (See Monihan, Daniel J., assignor.)
Grönroos, Hugo, Copenhagen, Denmark. Production of artificial stones or slabs of marble-like appearance. No. 1,341,979; June 1; v. 275; p. 72.
Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Manufacturing composite soles for boots or shoes. No. 1,344,503; June 22; v. 275; p. 749.
Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Sole for boots or shoes. No. 1,344,504; June 22; v. 275; p. 749.
Gross, Annie M., Philadelphia, Pa. Curtain-holder. No. 1,345,170; June 29; v. 275; p. 942.
Gross, Charles M., Mount Union, Pa. Builder's-line holder. No. 1,344,224; June 22; v. 275; p. 693.
Gross, John E., Walla Walla, Wash. Threshing-machine. No. 1,342,806; June 8; v. 275; p. 287.
Gross, William. (See Burger, W. A., and Gross.)
Grote, Fred J., Cincinnati, Ohio. Shade and curtain bracket. No. 1,343,126; June 8; v. 275; p. 350.
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Grotkowski, Stanley, Chicopee, Mass. Gas-kindling grate. No. 1,344,341; June 22; v. 275; p. 716.
Grounds, Albert R., Hooker, Okla. Harvesting implement. No. 1,344,033; June 22; v. 275; p. 656.
Grove, Frank H. (See Major, W. R., and Grove.)
Grove, George H., Harrisburg, Pa. Automatic self-closing funnel. No. 1,343,867; June 15; v. 275; p. 560.
Grove, Otto K., Netawaka, Kans. Scoop-gate and clip therefor. No. 1,343,263; June 15; v. 275; p. 440.
Groves, Charles H., Beaumont, Tex. Shocker. No. 1,343,775; June 15; v. 275; p. 541.
Grozier, Thomas H., Longueville, near Sydney, New South Wales, Australia. Apparatus for the reclaiming of used printers' roller composition. No. 1,344,270; June 22; v. 275; p. 702.
Gruber, Fred, Newark, N. J. Valve mechanism. No. 1,342,438; June 8; v. 275; p. 214.
Grumme, William F., assignor of one-fourth to L. Segal, New York, N. Y. Apparatus for raising ships. No. 1,344,505; June 22; v. 275; p. 749.
Gruss, Lucien R., assignor to Pneumatic Cushion Company, San Francisco, Calif. Air-spring. No. 1,343,560; June 15; v. 275; p. 498.
Gudge, Benjamin J. (See Kempton, W. H., Gudge, and Lauffer.)
Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the casting of hub-liners on bearing-boxes for locomotives or the like. No. 1,344,083; June 22; v. 275; p. 666.
Guilbert, Harry, Provo, Utah. Phonograph. No. 1,342,284; June 1; v. 275; p. 132.
Gunderson, Julius, assignor to Bramwell-Ragen Corporation, St. Paul, Minn. Garment-pocket. No. 1,342,168; June 1; v. 275; p. 109.
Gundlach, Edward L., St. Louis, Mo. Clasp. No. 1,345,171; June 29; v. 275; p. 942.
Gunji, Hansuke, *et al.* (See Toda, Tomokichi, assignor.)
Gunn, John C., Liverpool, England. Manufacture of cigarette and other article cases. No. 1,344,506; June 22; v. 275; p. 749.
Guthrie, Robert L., Santa Rosa, Calif. Cultivator. No. 1,342,285; June 1; v. 275; p. 132.
Guyot, Alfred, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Salindres, France. Preparation of acetic aldehyde from acetylene. No. 1,343,715; June 15; v. 275; p. 529.
Guyot, Alfred, Salindres, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Paris, France. Preparation of trichlorethylene from tetrachlorethane. No. 1,343,716; June 15; v. 275; p. 529.
Guyot, Jean N. H. J., Paris, France. Automatic pistol. No. 1,344,884; June 29; v. 275; p. 888.
Gwinn, George W., New York, N. Y. Machine for applying stamps, labels, or sealing-strips to containers. No. 1,343,264; June 15; v. 275; p. 440.
Gwyer, Herbert J., Yonkers, N. Y. Corner connection for cabinets. No. 1,343,209; June 15; v. 275; p. 430.
Haas, Daniel A., Belleville, Ill. Shock-holder. No. 1,343,624; June 15; v. 275; p. 510.
Haas, Geo., & Sons. (See Haas, Walter A., assignor.)
Haas, Nelson R., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Electric regulator. No. 1,344,689; June 29; v. 275; p. 850.
Haas, Victor E., assignor of one-half to S. E. Starr, Toledo, Ohio. Carbureter. No. 1,342,107; June 1; v. 275; p. 97.
Haas, Walter A., assignor to Geo. Haas & Sons, San Francisco, Calif. Package for ice-cream. No. 1,343,391; June 15; v. 275; p. 465.
Hachmann, Frederick, assignor of one-half to H. C. Stifel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Piston-ring. No. 1,342,380; June 1; v. 275; p. 149.
Hackett, James K., New York, N. Y. Display device. No. 1,344,084; June 22; v. 275; p. 666.
Hadaway, William S., Jr., New Rochelle, N. Y. Electric broiler. No. 1,345,004; June 29; v. 275; p. 910.
Hadfield, Robert A., Westminster, England. Manufacture of manganese-steel sheets. No. 1,344,392; June 22; v. 275; p. 726.
Haensler, Henry F., Detroit, Mich. Tool-support. No. 1,341,848; June 1; v. 275; p. 47.
Hagen, Robert. (See Dunstan, Wayne E., assignor.)
Hagenau, Henry. (See Smith, Theodore M., assignor.)
Hagmaier, William G., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Saw-shifter. No. 1,344,203; June 22; v. 275; p. 689.
Hagstrom, Carl J., Glen Cove, N. Y. Casement-adjuster. No. 1,344,507; June 22; v. 275; p. 750.
Hagstrom, Carl J., Glen Cove, N. Y. Antirattle-catch. No. 1,344,508; June 22; v. 275; p. 750.
Hahn, Herman J., Napoleon, Ohio. Stalk-raiser. No. 1,344,761; June 29; v. 275; p. 865.
Hahn, William J., Philadelphia, Pa. Ruler. No. 1,343,968; June 22; v. 275; p. 644.
Hainsey, Robert, Altoona, Pa. Fountain-paintbrush. No. 1,342,211; June 1; v. 275; p. 118.
Hainsey, Robert, Altoona, Pa. Painting apparatus. No. 1,342,212; June 1; v. 275; p. 118.
Haiss, George, New York, N. Y. Wagon-loader. No. 1,345,172; June 29; v. 275; p. 943.
Halbow, Gustav, Brooklyn, N. Y. Water-skate. No. 1,344,225; June 22; v. 275; p. 693.
Halder, George, Milwaukee, Wis. Artificial bait. No. 1,345,173; June 29; v. 275; p. 943.
Hale, David E., Kansas City, Mo., and J. E. McCormick, Kansas City, Kans. Tool for brickmasons. No. 1,342,439; June 8; v. 275; p. 215.
Hale & Kilburn Corporation. (See Stubblebine, Raymond E., assignor.)
Hall, Francis C., Washington, D. C. Hanger. No. 1,343,363; June 15; v. 275; p. 459.
Hall, Frederick H., Claverdon, England. Vehicle-top. No. 1,345,174; June 29; v. 275; p. 943.
Hall, Harold A., San Jose, Calif. Cylinder for internal-combustion engines. (Reissue.) No. 14,869; June 1; v. 275; p. 156.
Hall, Harry, Manton, Mich. Track-laying machine. No. 1,345,175; June 29; v. 275; p. 943.
Hall Printing Press Company. (See White, Joseph, assignor.)
Hall Printing Press Company. (See White, J., and Eckhard, assignors.)
Hall, Peter P-G., Philadelphia, Pa. Metal-working machine. No. 1,343,503; June 15; v. 275; p. 486.
Hall Printing Press Company. (See White, Joseph, assignor.)
Hall, Robert T., East Liverpool, Ohio. Manufacture of clay mugs, &c. No. 1,344,885; June 29; v. 275; p. 888.
Halladay, Lewis P., Streator, Ill. Support for automobile-bumpers. No. 1,344,796; June 29; v. 275; p. 871.
Halladay, Lewis P., Streator, Ill. Clamp for automobile-bumpers. No. 1,344,797; June 29; v. 275; p. 872.
Halladay, Lewis P., Streator, Ill. Support for automobile-bumpers. No. 1,344,798; June 29; v. 275; p. 872.
Halladay, Lewis P., Streator, Ill. Automobile-bumper support. No. 1,344,799; June 29; v. 275; p. 872.
Hallinan, Thomas, Paterson, N. J. Electrical toy gun. No. 1,343,127; June 8; v. 275; p. 351.
Hallner, Andrew, Arboga, Calif. Vehicle-spring. No. 1,344,204; June 22; v. 275; p. 689.
Halpin, Frank, *et al.* (See Burch, Willie, assignor.)
Halstead, Frederick H., assignor to Rivett Lathe and Grinder Company, Boston, Mass. Lathe-tool. No. 1,342,745; June 8; v. 275; p. 274.
Halstead, Frederick H., assignor to Rivett Lathe and Grinder Company, Boston, Mass. Lathe-tool. No. 1,342,746; June 8; v. 275; p. 274.

Halverson, Christian, Seattle, Wash. Device for babbitting pulleys. No. 1,343,128; June 8; v. 275; p. 351.
Halverson, Otto N. (See Johnson, M. R., and Halverson.)
Hamel, Joseph O., Smith's Falls, Ontario, Canada. Self-propelled vehicle. No. 1,342,440; June 8; v. 275; p. 215.
Hamill, Charles C, Randsburg, Calif. Ore-feeder. No. 1,343,868; June 15; v. 275; p. 560.
Hamilton-Beach Mfg. Co. (See Flegel, Harrison D., assignor.)
Hamilton, John R., Yonkers, assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Chemical fire-extinguishing apparatus and control device therefor. No. 1,343,364; June 15; v. 275; p. 459.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Motor-gong. No. 1,343,365; June 15; v. 275; p. 460.
Hamilton, Thomas S., assignor of one-half to W. E. Merrill, Kansas City, Mo. Lubricating-strip for leaf-springs. (Reissue.) No. 14,870. June 1; v. 275; p. 156.
Hamilton, William F., Ventura, Calif. Corn-header. No. 1,343,884; June 15; v. 275; p. 563.
Hammen, John J., Spencer, Iowa. Trenching-machine. No. 1,343,081; June 8; v. 275; p. 341.
Hammer, Louis, Olds, Alberta, Canada. Auto pull-out. No. 1,343,625; June 15; v. 275; p. 511.
Hammon, Carl F., Hartford, Conn. Safety-razor. No. 1,344,447; June 22; v. 275; p. 738.
Hampton, Charles T., Des Moines, Iowa. Splicing a tube and product thereof. No. 1,342,441; June 8; v. 275; p. 215.
Hampton, Durward B., Napa, Calif. Ladder-step support. No. 1,344,886; June 29; v. 275; p. 888.
Hampton, Frederic W., Indianapolis, Ind. Marine mine. No. 1,343,969; June 22; v. 275; p. 644.
Hampton, William C., North Manchester, Ind. Air-compressor. No. 1,344,509; June 22; v. 275; p. 750.
Hamwi, Ernest A., St. Louis, Mo. Apparatus for making pastry forms. No. 1,342,045; June 1; v. 275; p. 85.
Hanauer, Michael, Tolland, Mass. Machine for stirring maple sugar. No. 1,341,743; June 1; v. 275; p. 26.
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Haner, Carl, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Furnace. No. 1,342,958; June 8; v. 275; p. 317.
Hanlon, Bernard, Lethbridge, Alberta, Canada. Hopple. No. 1,341,900; June 1; v. 275; p. 56.
Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-wheel-toothing machine. No. 1,344,299; June 22; v. 275; p. 708.
Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Windmill. No. 1,342,206; June 1; v. 275; p. 117.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-reducing machine. No. 1,341,799; June 1; v. 275; p. 37.
Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Generating formers for contour-grinding machines. No. 1,341,800; June 1; v. 275; p. 37.
Hanson, Earl C., Washington, D. C. Telephone apparatus for the deaf. No. 1,343,717; June 15; v. 275; p. 530.
Hanson, Harold C., Butte, Mont., and M. B. Sawyer, Edmonds, Wash. Method of and apparatus for sawing trees. No. 1,342,213; June 1; v. 275; p. 118.
Hanson, Nellie. (See Pope, Clarence J., assignor.)
Hanson, Oscar W., Salina, Kans. Piston packing-ring. No. 1,344,342; June 22; v. 275; p. 717.
Hantsch, Arthur, Linden, N. J. Stand for bicycles. No. 1,344,226; June 22; v. 275; p. 693.
Harber, Laurence S. (See Baker, R. E., Ford, and Harber.)
Hardie, R. W., Company. (See Hardie, Robert W., assignor.)
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air moistening and heating system. No. 1,342,214; June 1; v. 275; p. 118.
Hardie, Robert W., White Plains, N. Y., assignor to R. W. Hardie Company, Inc. Air-moistener. No. 1,343,718; June 15; v. 275; p. 530.
Hardnett, Merrellon F., Atlanta, Ga. Spring-fork for bicycles. No. 1,343,820; June 15; v. 275; p. 550.
Hargrave, Russell R., Pasadena, Tex. Railway-crossing shock-absorber. No. 1,343,869; June 15; v. 275; p. 560.
Harlet, Emile, Fives-Lille, France. Locomotive blast-pipe. No. 1,344,887; June 29; v. 275; p. 888.
Harley-Mason, Vernon B., Cheam, England. Steam-expansion engine. No. 1,343,449; June 15; v. 275; p. 476.
Harley, Leon J., Jr. (See Hodgetts, Harold W., assignor.)
Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Railway signaling system. No. 1,345,176; June 29; v. 275; p. 943.
Harmon Paper Company. (See Warren, John J., assignor.)
Harp, Otto, Wadsworth, Ohio. Crank-handle-retaining device. No. 1,344,343; June 22; v. 275; p. 717.
Harrell, Charlie S., Lexington, Miss. Embalming device. No. 1,342,997; June 8; v. 275; p. 325.
Harrington, Clinton O., assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,343,719; June 15; v. 275; p. 530.
Harrington, Tillie, Minneapolis, Minn. Tub. No. 1,342,807; June 8; v. 275; p. 287.
Harrington, Tillie, Minneapolis, Minn. Toaster. No. 1,343,129; June 8; v. 275; p. 351.
Harris, Archer H., Barberton, Ohio. Collapsible core. No. 1,343,504; June 15; v. 275; p. 487.
Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Toy aeroplane. No. 1,342,998; June 8; v. 275; p. 325.
Harris, Edward B., Hillsboro, Oreg. Wagon-brake. No. 1,342,381; June 1; v. 275; p. 149.
Harris, Elmer E., Memphis, Tenn. Auto-valve lifter. No. 1,343,130; June 8; v. 275; p. 351.
Harris, Ernest G., North Vancouver, British Columbia, Canada. Dry-pipe valve for sprinkler systems. No. 1,343,776; June 15; v. 275; p. 541.
Harris, Evan W. (See Cowan, Charles G., assignor.)
Harris, Harry L. (See Payne, Lawrence C., assignor.)
Harris, Isaac, Detroit, Mich. Telltale spark-plug. No. 1,343,626; June 15; v. 275; p. 511.
Harris, William L., Kansas City, Mo. Dead-center device. No. 1,341,849; June 1; v. 275; p. 47.
Harrison, John W., Atlanta, Ga. Oil-indicator for crank-cases of automobiles. No. 1,345,005; June 29; v. 275; p. 910.
Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. No. 1,344,034; June 22; v. 275; p. 657.
Hart, Granville M., and J. E. Wall, Plano, Tex. Cotton-chopper. No. 1,343,777; June 15; v. 275; p. 541.
Hart, Raymond S. (See Waltman, Walter M., assignor.)
Hartford, Edward V., Deal, N. J. Shock-absorber. No. 1,343,970; June 22; v. 275; p. 644.
Hartford Rubber Works Company, The. (See Shea, John J., assignor.)
Hartill-Law, William, assignor to Beamless Car Truck Self-Adjusting Brake Company, Minneapolis, Minn. Brake mechanism for cars. No. 1,344,120; June 22; v. 275; p. 675.
Hartmann, Carl, Rochester, N. Y., assignor to Gould Coupler Company. Dynamo-mounting. No. 1,344,945; June 29; v. 275; p. 899.
Hartmann, Carl, Rochester, N. Y., assignor to Gould Coupler Company. Dynamo-mounting. No. 1,344,946; June 29; v. 275; p. 899.
Hartung, Robert F., Chicago, Ill. Ship construction. No. 1,343,392; June 15; v. 275; p. 465.
Hartwig, William J. (See Collins, Edward W., assignor.)
Hash, Lee. (See Coyne, A., and Hash.)
Haskelite Manufacturing Corporation. (See Haskell, Henry L., assignor.)
Haskell, Henry L., Ludington, assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Boot or shoe sole. No. 1,343,450; June 15; v. 275; p. 476.
Haskell, Henry L., Ludington, Mich., assignor to Haskelite Manufacturing Corporation, Chicago, Ill. Aeroplane-body. No. 1,344,634; June 29; v. 275; p. 840.
Haskell, Robert M. (See Gahl, R., and Haskell.)
Haslup, Hugh W., Toledo, Ohio. Fountain-pen. No. 1,341,850. June 1; v. 275; p. 47.
Hasse, Franklin C., Congress Park, Ill. Rail-cutting device. No. 1,342,502; June 8; v. 275; p. 226.
Hastings, Cornelius G., Glendale, Calif., assignor to Hastings Tunnel System Company. Erecting-machine. No. 1,342,503; June 8; v. 275; p. 227.
Hastings, Cornelius G., Glendale, Calif. Carrier for surveying instruments. No. 1,344,947; June 29; v. 275; p. 899.
Hastings Tunnel System Company. (See Hastings, Cornelius G., assignor.)
Hatch, Edward B., Turley, Okla. Tool for replacing sucker-rods. No. 1,343,821; June 15; v. 275; p. 550.
Hatch, Robert D., San Francisco, Calif. Refrigerator-vehicle. No. 1,341,744; June 1; v. 275; p. 26.
Hauck, Arthur E., New York, N. Y. Preheating-furnace for welding castings. No. 1,344,690; June 29; v. 275; p. 850.
Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Paper-making machine. No. 1,343,505; June 15; v. 275; p. 487.
Hauman, Alexander W., Cape Town, South Africa. Instrument for the removal of hemorrhoids and resection of prolapsus recti. No. 1,344,227; June 22; v. 275; p. 694.
Havener, Arthur R., Wayland, Mass., assignor to Judson L. Thomson Mfg. Co. Machine for feeding circular rivet-caps and the like. No. 1,342,331; June 1; v. 275; p. 140.
Hawkins, Frank, Sittingbourne, England. Spring-button, dress-fastener, and the like. No. 1,343,506; June 15; v. 275; p. 487.
Hawkins, George L. (See Sullivan, D. C., Hawkins, and MacMillan.)
Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine fuel-pump. No. 1,341,640; June 1; v. 275; p. 5.
Haws, Alpheus G., Berkeley, Calif. Sanitary drinking-faucet. No. 1,344,948; June 29; v. 275; p. 900.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,342,215; June 1; v. 275; p. 119.
Hawthorne, Louis A., Newark, N. J., assignor to Steel Utilities Incorporated. Labeling-machine. No. 1,345,006; June 29; v. 275; v. 910.
Hayes, Jeremiah, Everett, Wash. Stake-pocket. No. 1,344,393; June 22; v. 275; p. 727.
Hayman, Isaac, Los Angeles, Calif. Hairpin. No. 1,341,980; June 1; v 275; p. 72.

Haynes, Charles M., Chillicothe, Ohio. Eyeglass-mounting. No. 1,342,808; June 8; v. 275; p. 288.
Hays, Caswell V., Dillon, S. C. Tablet. No. 1,343,778; June 15; v. 275; p. 542.
Hayward, Carle R., Quincy, F. O. Stillman, Cambridge, and H. M. Schleicher, Boston, Mass., assignors, by mesne assignments, to Moa Iron & Development Corporation, Dover, Del. Treatment of iron ores. No. 1,341,901; June 1; v. 275; p. 56.
Head, Ernest C. (See Gleason, J. E., Stewart, and Head.)
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Speed-changing device. No. 1,343,131; June 8; v. 275; p. 351.
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Feed-changing mechanism. No. 1,343,132; June 8; v. 275; p. 351.
Head, Mahlon M., *et al.* (See Mentzer, Claude E., assignor.)
Headley, James P., Jr., New Orleans, La. Locking attachment. No. 1,342,020; June 1; v. 275; p. 80.
Healy, William P., Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Wire-bound box-blank machine. No. 1,343,561; June 15; v. 275; p. 498.
Heath, Arthur E., London, England. Sparking plug for ignition purposes. No. 1,343,052; June 8; v. 275; p. 336.
Heath, Charles W., Cincinnati, Ohio. Method of and apparatus for analyzing gases. No. 1,342,539; June 8; v. 275; p. 234.
Hecht, Else, administratrix. (See Heimann, Georg.)
Hecht, Joseph, Brooklyn, N. Y., assignor to Cash Safety Window Company, New York, N. Y. Wicket or closure for windows. No. 1,342,673; June 8; v. 275; p. 259.
Heck, Charles M., Raleigh, N. C. Multiple-record-repeating phonograph. No. 1,342,442; June 8; v. 275; p. 215.
Heckathorn, Leonard L., Nowata, Okla. Mechanic's handy holding device. No. 1,345,177; June 29; v. 275; p. 943.
Hedberg, Johan H., Helsingborg, Sweden. Blotting appliance. No. 1,345,087; June 29; v. 275; p. 926.
Hedenburg, Oscar F., and D. S. Pratt, Pittsburgh, Pa., assignors to The Toledo Rex Spray Company, Toledo, Ohio. Making arsenate of lead. No. 1,344,035; June 22; v. 275; p. 657.
Hedges, Arthur L. (See Speyer, John E., assignor.)
Hedges, Chester G., Chase, Kans. Fuel-vaporizer for combustion-engines. No. 1,343,053; June 8; v. 275; p. 336.
Hedman Manufacturing Company. (See Fesler, Douglas F., assignor.)
Heggs, William R., Merino, Colo. Disk-sharpener. No. 1,344,888; June 29; v. 275; p. 888.
Heiligenstein, Joseph, Altamont, Ill. Box-opener. No. 1,343,627; June 15; v. 275; p. 511.
Heimann, Georg, deceased, Charlottenburg, Germany; E. Hecht, administratrix. Graded-service electromechanical telephone-exchange system. No. 1,341,801; June 1; v. 275; p. 38.
Hein, Paul, Essen-Rüttenscheid, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Refining raw wood-pulp liquor. No. 1,344,691; June 29; v. 275; p. 851.
Heinen, John, Atchison, Kans. Lifting-jack. No. 1,345,178; June 29; v. 275; p. 944.
Heino, John, New York, N. Y. Phonograph-needle. No. 1,343,507; June 15; v. 275; p. 487.
Heino, Louis, Oakland, Calif. Washtray. No. 1,342,046; June 1; v. 275; p. 85.
Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Control means for vacuum-tube circuits. No. 1,343,562; June 15; v. 275; p. 499.
Heisterkamp, Alexander, Hoboken, N. J. Account-book. No. 1,343,082; June 8; v. 275; p. 341.
Heitmiller, Charles C., Seattle, Wash. Rim-contractor. No. 1,344,889; June 29; v. 275; p. 889.
Heller, Jesse B., assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Making bolts. No. 1,343,720; June 15; v. 275; p. 530.
Helling, Charles H., assignor of one-half to G. C. Lester, Oakland, Calif. Switch attachment for electric irons. No. 1,342,905; June 8; v. 275; p. 307.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,343,210; June 15; v. 275; p. 431.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and manufacturing Company. System of control. No. 1,343,211; June 15; v. 275; p. 431.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,344,762; June 29; v. 275; p. 865.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Co. System of control. No. 1,344,763; June 29; v. 275; p. 865.
Heltzel, John N., assignor to The Heltzel Steel Form & Iron Co., Warren, Ohio. Concrete-mold-form stay. No. 1,345,179; June 29; v. 275; p. 944.
Heltzel Steel Form & Iron Co., The. (See Heltzel, John N., assignor.)
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 1,342,674; June 8; v. 275; p. 260.
Hendricks, Essex H. (See Freeman, Jones L., assignor.)
Hendricks, Walter L., Aurora, Ill. Harvesting-machine. No. 1,344,130; June 22; v. 275; p. 675.
Henig Engine Co. (See Henig, Frank L., assignor.)
Henig, Frank L., Chicago, Ill., assignor, by mesne assignments, to Henig Engine Co. Inlet or check valve. No. 1,342,216; June 1; v. 275; p. 119.
Henius, Max, assignor to F. Mendelsohn, Chicago, Ill. Treating oranges. No. 1,343,915; June 22; v. 275; p. 634.
Henneböhle, Frank, Chicago, Ill. Back-pressure and relief valve. No. 1,344,300; June 22; v. 275; p. 708.
Henry, Mary L., Jacksonville, Ill. Window-polisher. No. 1,344,890; June 29; v. 275; p. 889.
Hensel, George A., Waterville, Wash. Straw-spreader. No. 1,343,265; June 15; v. 275; p. 440.
Hensel, Henry F., New London, and W. J. Stake, Sugar Bush, Wis. Manure-conveyer. No. 1,342,217; June 1; v. 275; p. 119.
Henshaw, F. R., trustee. (See Worden, Stanley B. T., assignor.)
Hepworth, S. S., Company, *et al.* (See Mackintosh, Edward D., assignor.)
Herbert, Clarence C., Lincoln, Nebr. Sterilizing-pan. No. 1,343,779; June 15; v. 275; p. 542.
Herchert, Edwin J., Postville, Iowa. Tire-cover. No. 1,342,169; June 1; v. 275; p. 109.
Hercules Manufacturing Company. (See Berkeley, Laurence J., assignor.)
Herington, Thomas E. (See Hughes, J. E., and Herington.)
Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-developing apparatus. No. 1,343,671; June 15; v. 275; p. 520.
Herreshoff, Alexander G. (See Leipert, A. H., and Herreshoff, assignors.)
Herrmann, Oscar, New York, N. Y. Educational device for objective teaching. No. 1,343,721; June 15; v. 275; p. 531.
Herst, Hiram H., Ocean View, Va. Shirt. No. 1,342,906; June 8; v. 275; p. 307.
Hertner Electric Company, The. (See Hertner, John H., assignor.)
Hertner, John H., assignor, by mesne assignments, to The Hertner Electric Company, Cleveland, Ohio. Method and apparatus for starting motors. No. 1,343,451; June 15; v. 275; p. 476.
Herzog, John, Saginaw, Mich. Wood-turning machine. No. 1,343,319; June 15; v. 275; p. 450.
Herzog, John, Saginaw, Mich. Warped panel and forming same. No. 1,343,320; June 15; v. 275; p. 451.
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company. Portable elevator. No. 1,344,271; June 22; v. 275; p. 703.
Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry and Machine Company. Portable elevator. No. 1,344,272; June 22; v. 275; p. 703.
Hess, Henry K., Syracuse, N. Y. Treating timber. No. 1,344,891; June 29; v. 275; p. 889.
Hesse, Leopold, Oberbruch, near Aachen, assignor to Vereinigte Glanzstoff-Fabriken A. G., Elberfeld, Germany. Manufacturing tubular products of cellulose or compounds of cellulose. No. 1,341,745; June 1; v. 275; p. 26.
Hester, Walter F. (See Pickens, J. A., and Hester.)
Heuser, Herman, Evanston, Ill. Manufacture of alcohol-reduced beer. (Reissue.) No. 14,889; June 22; v. 275; p. 771.
Heusser, Wilfrid, Salt Lake City, Utah. Multiple-weight attachment for precision-balances. No. 1,345,180; June 29; v. 275; p. 944.
Hewitt, Edgar R., Plattsburg, N. Y. Double-heading air-brake system. No. 1,345,181; June 29; v. 275; p. 944.
Hewitt, George W., Wheeling, W. Va., and A. Steinbart, Pittsburgh, Pa. Apparatus for cleaning gases. No. 1,344,585; June 22; v. 275; p. 765.
Heyerdahl, Thorvald, Christiania, Norway. Connection between a water-tube and a pressure-basin mounting the water-tube. No. 1,342,286; June 1; v. 275; p. 132.
Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,344,586; June 22; v. 275; p. 765.
Heyman, Harry R., Berkeley, Calif. Circle-spacing device. No. 1,344,587; June 22; v. 275; p. 766.
Heymann, Philip S. (See Heymann, Sidney, assignor.)
Heymann, Sidney, Far Rockaway, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,344,036; June 22; v. 275; p. 657.
Heymann, Sidney, Far Rockaway, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,344,037; June 22; v. 275; p. 657.
Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,341,746; June 1; v. 275; p. 27.
Heywood, Charles. (See Heywood, James and C.)
Heywood, James, Manchester, and C. Heywood, Stockport, England. Roller-lap stop-motion. No. 1,342,713; June 8; v. 275; p. 268.
Hibner, Philip D., Seattle, Wash. Internal-combustion engine. No. 1,342,108; June 1; v. 275; p. 97.
Hickey, John J., New York, N. Y. Drip-water safe. No. 1,342,287; June 1; v. 275; p. 132.
Hickok, Emory, Engle, and A. H. Hollenbeck, Fair View, N. M. Cattle-guard. No. 1,344,535; June 22; v. 275; p. 755.

Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Tractor. No. 1,341,851; June 1; v. 275; p. 47.
Hicks Tractor Company. (See Hicks, Rex P., assignor.)
Higgins, Albert L., Bar Harbor, Me. Bottle-cap remover. No. 1,345,182; June 29; v. 275; p. 944.
Higgins, Frank G., Spokane, Wash. Catamenial bandage. No. 1,342,588; June 8; v. 275; p. 244.
Highway Tractor Company, The. (See McCutchen, Charles G., assignor.)
Highway Tractor Company. (See Schaaf, A. E., and Mills, assignors.)
Hildreth, Ned E., Lincoln, Nebr. Engine-support. No. 1,341,902; June 1; v. 275; p. 57.
Hill, Charles B., San Francisco, Calif. Linotype-mold. No. 1,343,171; June 8; v. 275; p. 359.
Hill, George W., New York, N. Y., assignor to American Tobacco Company. Cigarette-pouch package. No. 1,344,635; June 29; v. 275; p. 840.
Hill, Guy. (See Steinberger, L., and Hill.)
Hill, Guy, Washington, D. C. Wave-changer for radio-signaling apparatus. No. 1,345,007; June 29; v. 275; p. 910.
Hill, Herbert M., New York, N. Y., assignor to Paper Utilities Corporation. Coin-controlled device for dispensing cups. No. 1,344,692; June 29; v. 275; p. 851.
Hill, Hugh G., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Mechanical movement. No. 1,342,170; June 1; v. 275; p. 110.
Hill, Joseph M., Twin Falls, Idaho. Portable general-utility derrick. No. 1,345,008; June 29; v. 275; p. 910.
Hill, Willis C., Philadelphia, Pa. Shock-loader. No. 1,342,959; June 8; v. 275; p. 317.
Hilliard, Albert W., Wheelersburg, Ohio. Hydraulic gear-jack. No. 1,344,510; June 22; v. 275; p. 750.
Hine, Lyman N. (See Pape, Frederic, A. G., assignor.)
Hines, Edwin G., Drums, Pa. Draft-head for plow-beams. No. 1,344,131; June 22; v. 275; p. 675.
Hinkle, Allison, Sedalia, Mo. Rake. No. 1,343,366; June 15; v. 275; p. 460.
Hinkle, Jerome B. (See Mildren, Lory J., assignor.)
Hinsdale, Frank G., New York, N. Y. Harpoon. No. 1,344,693; June 29; v. 275; p. 851.
Hintermann, Gottlieb. (See Fehlmann, A., and Hintermann.)
Hirschfeld, H., sen. (See Meyer, L., and Schiff, assignors.)
Hirschkind, Wilhelm, Pittsburg, assignor to California Alkali Company, San Francisco, Calif. Recovery or purification of potassium salts. No. 1,343,508; June 15; v. 275; p. 487.
Hirst, Harry R., Trenton, N. J. Repair-tool for tires. No. 1,343,971; June 22; v. 275; p. 644.
Hitchens, George E. (See Alles, F. W., Fletcher, and Hitchens.)
Hitner, Harry F., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Ladling glass. No. 1,342,960; June 8; v. 275; p. 317.
Hix, William L., Nashville, Tenn. Ice-cream-dispensing device. No. 1,342,675; June 8; v. 275; p. 260.
Hmirak, John, New York, N. Y. Combination bayonet and wire-cutter. No. 1,342,382; June 1; v. 275; p. 149.
Hoard, Allen P., Taunton, Mass. Machine for beveling the edges of mounts and prints. No. 1,343,972; June 22; v. 275; p. 644.
Hoberg, Frank H., Green Bay, Wis. Locking device for cabinets. No. 1,342,961; June 8; v. 275; p. 317.
Hobson, John S., assignor to Massey Concrete Products Company, Chicago, Ill. Foundation and housing for railway signal apparatus. No. 1,342,962; June 8; v. 275; p. 317.
Hochstein, Luis B., Endicott, N. Y. Clasp. No. 1,345,183; June 29; v. 275; p. 945.
Hochstetter, Frederick W., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Process and apparatus for making a translucent medium for use in the photographic arts. No. 1,345,184; June 29; v. 275; p. 945.
Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-handle. No. 1,342,443; June 8; v. 275; p. 215.
Hodgins, James S. (See Powell, James F., assignor.)
Hoe, R., and Co. (See Raabe, Otto L., assignor.)
Hoe, R., and Co. (See Sheldon, Edward P., assignor.)
Hoeglund, Herman, Hawley, Minn. Combination table and ironing-board. No. 1,342,109; June 1; v. 275; p. 98.
Hoehn, Charles A., Pittsburgh, Pa. Seat structure. No. 1,343,916; June 22; v. 275; p. 634.
Hoffman, George A., Chicago, Ill. Envelop. No. 1,344,394; June 22; v. 275; p. 727.
Hoffman, Gustav, Chicago, Ill. Type-holder. No. 1,343,917; June 22; v. 275; p. 634.
Hoffman, Otto P., Chicago, Ill. Battery-plate. No. 1,341,713; June 1; v. 275; p. 19.
Hoffman Products Corporation. (See Hoffman, William M., assignor.)
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-burner. No. 1,343,673; June 15; v. 275; p. 521.
Hoffman, Samuel. (See Morgen, S., and Hoffman.)
Hoffman, Samuel O., assignor of one-third to Albert Abrams, San Francisco, Calif. Method of and apparatus for detecting and observing objects in the dark. No. 1,343,393; June 15; v. 275; p. 465.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Apparatus for operating and controlling fuel-oil burners. No. 1,341,642; June 1; v. 275; p. 5.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,643; June 1; v. 275; p. 5.
Hoffman, William M., assignor to Hoffman Products Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,341,644; June 1; v. 275; p. 6.
Hoffmann, Michael, assignor of one-half to F. R. Kluczny, Ivanhoe, Minn. Spark-plug. No. 1,344,892; June 29; v. 275; p. 889.
Hofmann, Alfred, Zurich, Switzerland. Apparatus for drying goods in layers. No. 1,344,893; June 29; v. 275; p. 889.
Hofmann, Julius, assignor to Hope Webbing Company, Providence, R. I. Merchandise-package. No. 1,345,185; June 29; v. 275; p. 945.
Hogston, John H., Minneapolis, Minn. Antiskid attachment for wheels. No. 1,344,273; June 22; v. 275; p. 703.
Hohmann, Richard K., Sioux City, Iowa. Sewing-machine. No. 1,343,823; June 15; v. 275; p. 550.
Hoke, Charles E. (See Block, Otto B., assignor.)
Holdaway, Hall H., Los Angeles, Calif. Machine for extracting fiber from palms and the like. No. 1,342,714; June 8; v. 275; p. 268.
Holdaway, Hall H., and T. R. Gabel, assignors of two-thirds to H. P. Jones, Los Angeles, Calif., and one-third to said Gabel. Product-picking nozzle. No. 1,344,205; June 22; v. 275; p. 689.
Holdsworth, Byron H., Los Angeles, Calif. Removing the rear wheels of automobiles from their axles. No. 1,342,907; June 8; v. 275; p. 307.
Holland, Charles W., Altoona, Pa. Tool for removing wheels from their axles. No. 1,345,186; June 29; v. 275; p. 945.
Holland, Joseph P., Key West, Fla. Chair-seat. No. 1,345,187; June 29; v. 275; p. 945.
Holland, Luther W., Pleasant Hill, Mo. Latch. No. 1,341,802; June 1; v. 275; p. 38.
Hollaway, William T., Alliance, Ohio. Loading and unloading truck. No. 1,342,628; June 8; v. 275; p. 250.
Hollenbeck, Albert H. (See Hickok, E., and Hollenbeck.)
Hollenback, George M., Los Angeles, Calif. Oven or furnace. No. 1,341,903; June 1; v. 275; p. 57.
Hollings, Ernest, Cleveland, Ohio. Making nut-blanks. No. 1,342,676; June 8; v. 275; p. 260.
Hollister, Mark, Jr., Fort Dodge, Iowa. Demountable rim. No. 1,345,332; June 29; v. 275; p. 973.
Holm, John A., New York, N. Y. Timer. No. 1,344,395; June 22; v. 275; p. 727.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Trucks. No. 1,342,107; June 1; v. 275; p. 155.
Holmes, Roy M. (See Andrews, H. N., and Holmes.)
Holmes, Thomas E., Glasgow, Scotland. Connection with plate and like rolling mills. No. 1,342,264; June 1; v. 275; p. 128.
Holmgren, Torsten A. F., Stockholm, and C. T. Thorssell, assignors to Aktiebolaget Kvofveindustri, Gottenborg, Sweden. Heating of material or the performance of chemical processes in electrical furnaces, together with apparatus intended therefor. No. 1,342,809; June 8; v. 275; p. 288.
Holt, Ben C., Spokane, Wash., assignor to The Holt Manufacturing Company, Stockton, Calif. Combined harvester and thresher. No. 1,344,396; June 22; v. 275; p. 727.
Holt, Harris B., Dormont, assignor to Rosedale Foundry & Machine Company, Pittsburgh, Pa. Furnace construction. No. 1,342,908; June 8; v. 275; p. 307.
Holt Manufacturing Company, The. (See Ball, Charles F., assignor.)
Holt Manufacturing Company, The. (See Holt, Ben C., assignor.)
Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
Holt Manufacturing Company, The. (See Norellius E. F., and Turnbull, assignors.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Gun-carriage. No. 1,344,397; June 22; v. 275; p. 727.
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Track-chain. No. 1,344,398; June 22; v. 275; p. 727.
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Steering clutch. No. 1,344,399; June 22; v. 275; p. 728.
Holton, Edward C., Olmsted Falls, assignor to Sherwin-Williams Company, Cleveland, Ohio. Treating polysulfid solutions. (Reissue.) No. 14,890; June 22; v. 275; p. 771.
Holtby, Wilkie H. (See McBride, Oscar C., assignor.)
Holub-Dusha Company. (See Dusha, P. F., and Feyk, assignors.)
Holy, James R., assignor of one-half to Segelke & Kohlhaus Mfg. Co., La Crosse, Wis. Glazier's point-setter. No. 1,342,110; June 1; v. 275; p. 98.
Home Gas Appliance Co. (See Graffunder, Saraha A., assignor.)

Hoofer, Charles F., Seattle, Wash. Automatic means for operating flange-oilers, &c. No. 1,343,973; June 22; v. 275; p. 644.
Hooper, F. N., Company. (See Mast, John C., assignor.)
Hoover, Ernest M. (See Fahrney, John J., assignor.)
Hope Webbing Company. (See Hofmann, Julius, assignor.)
Hope, William H., Providence, R. I. Roll-container. No. 1,342,909; June 8; v. 275; p. 308.
Hopedale Manufacturing Company. (See Draper, C. H., and Northrop, assignors.)
Hopkins, Arthur T., Cleveland, Ohio, assignor to The Mechanical Rubber Company. Bulb for tank-valves. No. 1,343,890; June 15; v. 275; p. 564.
Hopkins, Gordon B. (See Knee, A. E., and Hopkins.)
Horiuchi, Hirosuke, Taiwan, Japan. Water-tube boiler. No. 1,343,824; June 15; v. 275; p. 551.
Horman, Alfred E., New York, N. Y. Rotary mechanism. No. 1,344,085; June 22; v. 275; p. 666.
Horn, Guido, Weissensee, near Berlin, Germany. Apparatus for holding the thread tense in circular-braiding machines. No. 1,343,452; June 15; v. 275; p. 476.
Horn, Nicholas, Paterson, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,343,509; June 15; v. 275; p. 488.
Horstman, Edward C., St. Louis, Mo. Handle for suitcases and the like. No. 1,342,677; June 8; v. 275; p. 260.
Horton, George T. (See Small, Kenneth L., assignor.)
Horvath, Louis, and T. J. Blackburn, Mingo Junction, Ohio. Switch-frog. No. 1,342,332; June 1; v. 275; p. 140.
Horvath, Steven F., Buffalo, N. Y. Bread-knife. No. 1,342,383; June 1; v. 275; p. 150.
Hosch, Annie M., administrator. (See Hosch, Walter E.)
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Fabric-cutting device. No. 1,343,722; June 15; v. 275; p. 530.
Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Counter apparatus. No. 1,343,723; June 15; v. 275; p. 531.
Hossfeld, Albert, assignor to The Hossfeld Manufacturing Co., Inc., Lewiston, Minn. Manure-loader. No. 1,345,088; June 29; v. 275; p. 926.
Hossfeld Manufacturing Co., The. (See Hossfeld, Albert, assignor.)
Hottmann, Charles W., assignor to The Hottmann Machine Company, Philadelphia, Pa. Condenser and separator. No. 1,342,810; June 8; v. 275; p. 288.
Hottmann Machine Company, The. (See Hottmann, Charles W., assignor.)
Houck, Martin, assignor to Vacuum Heat Manufacturing Company, Minneapolis, Minn. Automatic vaporizer for hot-water heating systems. No. 1,344,894; June 29; v. 275; p. 889.
Houghton, Herbert H., Filer, Idaho. Valved coupling for lubricators. No. 1,342,678; June 8; v. 275; p. 260.
Houghton, Lewis T., Worcester, Mass. Yarn-tension device. No. 1,344,400; June 22; v. 275; p. 728.
Houston Fountain Pen Company. (See Borbeck, Martin, assignor.)
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,341,981; June 1; v. 275; p. 72.
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Universal joint for spot-lights. No. 1,344,344; June 22; v. 275; p. 717.
Howard, Elsie R., executrix. (See Howard, Elverton I.)
Howard, Elverton I., deceased, Westfield, N. Y., E. R. Howard, executrix; A. Thompson executor of said E. R. Howard, deceased; said A. Thompson, executor, assignor to Primolite Company, Indianapolis, Ind. Lens-holder for headlights. No. 1,344,694; June 29; v. 275; p. 851.
Howard, Elverton I., deceased, Westfield, N. Y., E. R. Howard, executrix; A. Thompson executor of said E. R. Howard, deceased; said A. Thompson, executor, assignor to Primolite Company, Indianapolis, Ind. Lens-holder for headlights. No. 1,344,695; June 29; v. 275; p. 851.
Howard, Ira T., Nappanee, Ind. Anticreeper. No. 1,343,563; June 15; v. 275; p. 499.
Howard, James H., Jacksonville, Fla. Dispensing-can closure. No. 1,343,825; June 15; v. 275; p. 551.
Howard, John A., Sr., West New Brighton, N. Y. Cooking utensil. No. 1,344,511; June 22; v. 275; p. 750.
Howard, Lemuel F., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,341,982; Jan. 1; v. 275; p. 72.
Howard, Stanley R., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton opening and feeding mechanism. No. 1,342,047; June 1; v. 275; p. 85.
Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Thrust-bearing. No. 1,342,384; June 1; v. 275; p. 150.
Howe, Albert A., Terril, Iowa. Folding commode-chair. No. 1,342,715; June 8; v. 275; p. 268.
Howe, Charles W., Healdton, Okla. Lightning-arrester. No. 1,342,111; June 1; v. 275; p. 98.
Howe, Earl W., Norfolk, Va. Griddle. No. 1,342,444; June 8; v. 275; p. 215.
Howe, Olaf L., Missoula, Mont. Air-motor. No. 1,342,811; June 8; v. 275; p. 288.
Howell, Davis P., Modesto, Calif. System for collecting water. No. 1,342,679; June 8; v. 275; p. 261.
Hower, James H., New Staunton, Pa. Spring-bed. No. 1,341,714; June 1; v. 275; p. 19.
Howlett, Isaac C., Bangs, Tex. Tire-oven. No. 1,345,188; June 29; v. 275; p. 946.
Howser, Robert C., Indianola, Iowa. Agricultural machine. No. 1,345,189; June 29; v. 275; p. 946.
Hoynack, Nick, Caledonia, Ontario, Canada. Agricultural implement. No. 1,343,564; June 15; v. 275; p. 499.
Hubbard, Burtt J., Kokomo, Ind., assignor of one-half to J. T. Powell, Pittsburgh, Pa. Loading-skid. No. 1,341,904; June 1; v. 275; p. 57.
Hubbard, Charles W., Weston, Mass. Twine-holder. No. 1,344,274; June 22; v. 275; p. 703.
Huber, Emil, assignor to Essex Motors, Detroit, Mich. Carburetor. No. 1,344,696; June 29; v. 275; p. 851.
Hudd, Alfred E., Melbourne, and G. H. Wion, Brighton, Victoria, Australia. Electrical point-detector for railways. No. 1,343,135; June 8; v. 275; p. 352.
Hudson, Clark. (See Byrne, John, assignor.)
Hudson, Edwin B., Middletown, Ohio. Pneumatic wheel. No. 1,344,401; June 22; v. 275; p. 728.
Hudson, Joseph E. (See Hudson, Richard W. and J. E.)
Hudson Motor Car Company. (See Baits, S. G., and Fekete, assignors.)
Hudson, Richard W. and J. E., Toledo, Ohio. Twist-drill machine. No. 1,342,963; June 8; v. 275; p. 318.
Huey, George W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting device for electric motors. No. 1,343,212; June 15; v. 275; p. 431.
Huff, Gilbert L., St. Louis, Mo. Coin-controlled mechanism. No. 1,343,999; June 22; v. 275; p. 650.
Huff, Gilbert L., Holdenville, Okla. Coin-controlled mechanism. No. 1,344,086; June 22; v. 275; p. 667.
Huff, William D., La Fayette, La., assignor of one-half to J. J. Connolly, Roanoke, Va. Electric water-heater. No. 1,343,134; June 8; v. 275; p. 352.
Hughes, Benjamin A., Colorado Springs, Colo. Ore-concentrating table. No. 1,343,266; June 15; v. 275; p. 440.
Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Clutch mechanism. No. 1,341,983; June 1; v. 275; p. 72.
Hughes Granite Company, The. (See Hughes, W. E., and King, assignors.)
Hughes, Joe A., and T. E. Herington, Mallard, Iowa. Umbrella. No. 1,344,132; June 22; v. 275; p. 675.
Hughes, Lawrence D., Oklahoma, Okla. Resilient tire. No. 1,343,172; June 8; v. 275; p. 359.
Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Seam. No. 1,344,000; June 22; v. 275; p. 650.
Hughes, William E., and J. B. King, assignors to The Hughes Granite Company, Clyde, Ohio. Mausoleum construction. No. 1,342,812; June 8; v. 275; p. 288.
Hulbert, Edwin F., assignor to National Paper Can Company, South Norwalk, Conn. Paper package and closure therefor. No. 1,343,724; June 15; v. 275; p. 531.
Hull, Arthur R., Gasport, N. Y. Spray-gun. No. 1,343,780; June 15; v. 275; p. 542.
Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for hardening bodies having the shape of solids of revolution. No. 1,342,112; June 1; v. 275; p. 98.
Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for heating balls. No. 1,342,171; June 1; v. 275; p. 110.
Hultman, Charles G., Cranston, and H. Wachenheimer, Providence, R. I., assignors to Wachenheimer Bros. Inc., Providence, R. I. Clasp. No. 1,342,048; June 1; v. 275; p. 85.
Hultman, Gustaf H., Stockholm, Sweden. Manufacturing chrome alum. No. 1,343,725; June 15; v. 275; p. 531.
Hultquist, Charles A., Los Angeles, Calif. Fluid-operated tool. No. 1,342,540; June 8; v. 275; p. 234.
Humphreys, Robert E., Whiting, Ind., and W. M. Burton, assignors to The Standard Oil Company, Chicago, Ill. Distillation of petroleum-oils. No. 1,343,674; June 15; v. 275; p. 521.
Humphris, Frank, Boscombe, England. Construction of adjustable spanners, wrenches, vises, clamps, pipe-cutters, pipe-grips, and like tools. No. 1,343,826; June 15; v. 275; p. 551.
Huneycutt, Charles F., assignor of one-half to C. F. Brethoil, Charlotte, N. C. Sheet-guide for printing-presses. No. 1,342,113; June 1; v. 275; p. 98.
Hunt, Ozello R., assignor to Cushion Spring Engineering Corporation, Chicago, Ill. Spring structure. No. 1,343,565; June 15; v. 275; p. 499.
Hunter, Annie M., Akron, Ohio. Footrest. No. 1,344,402; June 22; v. 275; p. 728.
Hunter Gas Engine and Development Company, The. (See Kershaw, Edwin T., assignor.)
Hupp Motor Car Corporation. (See Watts, Frank E., assignor.)
Hurff, Harry L., Peoria, Ill. Gage attachment for woodworking-machines. No. 1,342,218; June 1; v. 275; p. 119.
Hurlbut, Clarke S., Philadelphia, Pa. Easel. No. 1,343,054; June 8; v. 275; p. 336.

Hurst, William C., New York, N. Y. Combustion-engine. No. 1,344,228; June 22; v. 275; p. 694.
Huston, Edward M., Philadelphia, Pa. Valve-grinder. No. 1,341,984; June 1; v. 275; p. 73.
Huston, Sidney H., Houston, Tex. Screening device for oil-wells. No. 1,342,813; June 8; v. 275; p. 289.
Huston, Sidney H., Houston, Tex. Sample-taking device. No. 1,342,814; June 8; v. 275; p. 289.
Huston, Thomas, Kokomo, Ind. Farm-gate. No. 1,341,905; June 1; v. 275; p. 57.
Hutchinson, David Michal. (See Hachmann, Frederick, assignor.)
Hutchinson, William S., Bethlehem, Pa. Girder. No. 1,344,229; June 22; v. 275; p. 694.
Hutchison, Miller R., West Orange, N. J. Spool. No. 1,345,190; June 29; v. 275; p. 946.
Hutchison, William, Cleveland, Ohio. Collar-clasp. No. 1,345,191; June 29; v. 275; p. 946.
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Switch construction. No. 1,342,999; June 8; v. 275; p. 325.
Hutton, David B., Waiuku, New Zealand. Construction of force or lift pumps. No. 1,341,906; June 1; v. 275; p. 57.
Hyatt, John E., and H. J. Moen, Stevens Point, Wis. Coal-chute. No. 1,343,675; June 15; v. 275; p. 521.
Hydragas Corporation, The. (See Shaver, George F., assignor.)
Hyland, Michael J., Rochester, N. Y. Bottle-holder. No. 1,342,747; June 8; v. 275; p. 274.
Ibarra y Suris, Emilio, Habana, Cuba. Non-refillable bottle. No. 1,345,279; June 29; v. 275; p. 963.
Ichiba, Rihachi, New York, N. Y. Drill and wire gage. No. 1,342,288; June 1; v. 275; p. 132.
Iddon, Frederick, Leyland, England. Rubber mixing, grinding, sheeting, and similar mills. No. 1,342,114; June 1; v. 275; p. 99.
Ilieff, Ilion, Detroit, Mich. Resilient spoke. No. 1,341,907; June 1; v. 275; p. 58.
Illinois Glass Company. (See Seabold, Walter G., assignor.)
Illinois Tool Works. (See Olson, C. G., and Trbojevich, assignors.)
Improved Paper Machinery Company. (See Haug, Anton J., assignor.)
Independent Lamp and Wire Company. (See Liebmann, A. J., and Laise, assignors.)
India Rubber Company, The. (See Weida, Harry, assignor.)
Indiana Lamp Company. (See De Martin, C. L., and Foster, assignors.)
Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
Ingels, James, Springfield, Ill. Insulator for spark-plugs. No. 1,341,747; June 1; v. 275; p. 27.
Ingersoll-Rand Company. (See Abrams, Herbert T., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Longacre, Frederick V. D., assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
Ingoldsby, Frank S., Pine Lake, Mich., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio. Dump-car. No. 1,344,403; June 22; v. 275; p. 729.
Ingram, Finch P., Fairlight, England. Life-saving appliance. No. 1,341,908; June 1; v. 275; p. 58.
Ingram, Oscar L., Walla Walla, Wash. Demountable rim. No. 1,343,394; June 15; v. 275; p. 465.
Ingram, Sleeper T., assignor of thirty per cent. to J. E. Newell, St. Louis, Mo. Tractor rotary plow. No. 1,342,815; June 8; v. 275; p. 289.
Inland Automatic Thrasher and Machinery Company. (See Shanks, John N., assignor.)
Inman, Thomas M. (See Bygrave, L. C., and Inman.)
International Army and Navy Equipment Company, The. (See Seymour, Benjamin F., assignor.)
International Harvester Company. (See Burgess, Edward W., assignor.)
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Rice, George L., assignor.)
International Manufacturing Company of Texas. (See Thompson, R. A., and Morris, assignors.)
International Motor Company. (See Bolger, Robert S., assignor.)
International Motor Company. (See Leipert, A. H., and Herreshoff.)
International Oxygen Company. (See Benjamin, Edward O., assignor.)
International Precipitation Company. (See Schmidt, W. A., and Roberts, assignors.)
International Precipitation Company. (See Schmidt, Walter A.)
International Precipitation Company. (See Stringfield, Raymond B., assignor.)
Irons, Robert H., Harrisburg, Pa. Paving-block. No. 1,344,895; June 29; v. 275; p. 890.
Irons, Robert H., assignor to Central Iron & Steel Company, Harrisburg, Pa. Manufacturing steel. No. 1,345,192; June 29; v. 275; p. 946.
Irsch, Jacob, New York, N. Y. Amusement device. No. 1,343,083; June 8; v. 275; p. 342.
Ischinger, Eric, assignor to E. R. Saalmann, Rochester, N. Y. Child's vehicle. No. 1,343,566; June 15; v. 275; p. 499.
Isell, Frederick. (See Christoffel, Thomas, assignor.)
Isko Company, The. (See Joy, Henry B., assignor.)
Isphording, Richard C., Cincinnati, Ohio, and G. H. Schultz, Fort Thomas, Ky. Gasolene-reservoir for automobiles. No. 1,343,173; June 8; v. 275; p. 359.
Jackson, Corwill, Kalamazoo, Mich. Grinder. No. 1,344,133; June 22; v. 275; p. 676.
Jackson, Edward J., Willcox, Ariz. Self-oiling vehicle-spring. No. 1,343,453; June 15; v. 275; p. 476.
Jackson, Henry M., Montreal, Quebec, Canada. Springbed. No. 1,344,636; June 29; v. 275; p. 840.
Jacobs, Albert. (See Jacobs, Joseph and A.)
Jacobs, Charles M., Longmeadow, Mass. Window-sash-locking device. No. 1,344,038; June 22; v. 275; p. 657.
Jacobs, James M. H., assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio. Steering device. No. 1,342,385; June 1; v. 275; p. 150.
Jacobs, Joseph, Lake Charles, La., and A. Jacobs, New York, N. Y. Garment-hanger. No. 1,344,697; June 29; v. 275; p. 852.
Jacobs, Joseph H., Denver, Colo. Automatic cooker. No. 1,341,748; June 1; v. 275; p. 27.
Jacobson, Ole, assignor to Safety Burglar Alarm Co., Grand Rapids, Mich. Burglar-alarm. No. 1,344,178; June 22; v. 275; p. 684.
Jacobson, Theodore, Hartford, Conn. Antifriction-bearing. No. 1,343,321; June 15; v. 275; p. 451.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace-wall. No. 1,341,645; June 1; v. 275; p. 6.
Jacoby, Henry C. E. (See Mossay, P. A. H., and Jacoby.)
Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Coin-dispensing device. No. 1,341,749; June 1; v. 275; p. 27.
Jak Tire Corporation. (See Jakovleff, Alexis, assignor.)
Jakobson, Max, New York, N. Y. Cup or box. No. 1,343,726; June 15; v. 275; p. 531.
Jakovleff, Alexis, assignor to Jak Tire Corporation, San Francisco, Calif. Vehicle-wheel. No. 1,343,567; June 15; v. 275; p. 500.
Jakuricz, Joseph. (See Kropacz, John, assignor.)
Jambor, John E., Milwaukee, Wis., assignor to Westinghouse Lamp Company. Tray for lamp-stems or the like. (Reissue.) No. 14,877; June 8; v. 275; p. 362.
James, Nephanus E., Birmingham, Ala. Automobile-lock. No. 1,343,870; June 15; v. 275; p. 561.
Jameson, Winthrop M., Cambridge, Mass. Hose-supporter. No. 1,345,193; June 29; v. 275; p. 946.
Jamieson, George G. (See Sweet, F. A., and Jamieson.)
Jandron, Wilfred J., Minneapolis, Minn. Dispensing-cabinet. No. 1,343,974; June 22; v. 275; p. 645.
Janney, Thomas A., Garfield, Utah. Flotation-machine. No. 1,342,115; June 1; v. 275; p. 99.
Janney, Robert E. L., Chicago, Ill. Carbureter. No. 1,342,445; June 8; v. 275; p. 216.
Jauni, Alfredo C., New York, N. Y. Reinforced-concrete vessel and building same. No. 1,342,408; June 1; v. 275; p. 155.
Jansen, Victor, Los Angeles, Calif. Painter's striping mechanism. No. 1,341,803; June 1; v. 275; p. 38.
Jardin, Albert A., Congress Park, Ill. Railway-track appliance. No. 1,344,134; June 22; v. 275; p. 676.
Jardine, James C., and J. Dickie, Summerside, Prince Edward Island, Canada. Bridle. No. 1,341,715; June 1; v. 275; p. 20.
Jarmie, Michael, East Haven, Conn. Spring-lubricator. No. 1,342,172; June 1; v. 275; p. 110.
Jarvis, John G., Stamford, N. Y. Acetyl cellulose composition and making same. No. 1,343,135; June 8; v. 275; p. 352.
Javalet, Albert, New Orleans, La. Amusement device. No. 1,343,136; June 8; v. 275; p. 352.
Jeannet, Lazare P. X., Paris, France. Thermometer operated by the pressure of saturated vapor. No. 1,343,454; June 15; v. 275; p. 477.
Jeannotte, Charles E., Montreal, Quebec, Canada. Radiator. No. 1,342,680; June 8; v. 275; p. 261.
Jeantin, Antoine, Geneva, Switzerland. Suspension device. No. 1,345,089; June 29; v. 275; p. 926.
Jefferis, Richard W., Philadelphia, Pa. Rack for shelving. No. 1,341,852; June 1; v. 275; p. 47.
Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Motion-picture machine. No. 1,342,681; June 8; v. 275; p. 261.
Jenkins, Charles F., Washington, D. C. Film-reel. No. 1,343,628; June 15; v. 275; p. 511.
Jenkins, D. C., Glass Company. (See Jenkins, David A., assignor.)
Jenkins, David A., assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Removable top for pitchers and the like. No. 1,344,404; June 22; v. 275; p. 729.
Jennings, Arthur B., New York, N. Y. Air-lift footpiece. No. 1,343,510; June 15; v. 275; p. 488.
Jennings, Emerson P., Jr., Lehighton, Pa. Sheet-feeding mechanism. No. 1,342,629; June 8; v. 275; p. 250.
Jennings, Emerson P., Jr., Lehighton, Pa. Sheet-separating device. No. 1,342,630; June 8; v. 275; p. 251.
Jennings, John E., Brooklyn, N. Y., assignor to Milliken Brothers Mfg. Co. Inc. Building construction. No. 1,342,021; June 1; v. 275; p. 80.

Jennings, McKinley, Detroit, Mich. Corn-planter and fertilizer-distributer. No. 1,342,333; June 1; v. 275; p. 140.
Jensen, Agnes M., administratrix. (See Jensen, Rasmus.)
Jensen, George C., Oakland, Calif. Automobile-lock. No. 1,342,748; June 8; v. 275; p. 275.
Jensen, Otto H., assignor to The Republic Metalware Company, Buffalo, N. Y. Beading-machine. No. 1,344,405; June 22; v. 275; p. 729.
Jensen, Rasmus, deceased, Los Angeles, Calif.; A. M. Jensen administratrix. Carbureter. No. 1,343,455; June 15; v. 275; p. 477.
Jenson, Ole E., Rosebeg, Alberta, Canada. Pouring-spout lid and strainer. No. 1,344,039; June 22; v. 275; p. 658.
Jermain, Herbert F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Coloring iron or steel articles. No. 1,342,910; June 8; v. 275; p. 308.
Jermyn, Percy V., Port Credit, Ontario, Canada. Toy. No. 1,345,009; June 29; v. 275; p. 911.
Jerram, Arthur E., Leicestershire, England. Precision machine-tool. No. 1,344,536; June 22; v. 275; p. 755.
Jesnig, Charles, Philadelphia, Pa. Universal work-holder. No. 1,341,646; June 1; v. 275; p. 6.
Jiminez, Anthony, New York, N. Y. Resilient wheel. No. 1,342,289; June 1; v. 275; p. 132.
Jobke, August F., Detroit, Mich. Copying-camera. No. 1,344,896; June 29; v. 275; p. 890.
Jochumsen, John, and G. A. Netcott, assignors to L. C. Simmons, A. C. Burkhart, C. V. Rosenberger, J. T. Barnett, and A. H. Trask, Independence, Iowa. Swing. No. 1,345,333; June 29; v. 275; p. 974.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. High-voltage transformer. (Reissue.) No. 14,891; June 22; v. 275; p. 771.
Johns-Manville, H. W., Company. (See Carson, Clarence, assignor.)
Johnson, Aben E., Hastings, Mich. Package for disassembled vehicle-curtain windows. No. 1,344,135; June 22; v. 275; p. 676.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,344,041; June 22; v. 275; p. 658.
Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Electrical-resistance wire. No. 1,344,406; June 22; v. 275; p. 729.
Johnson, Alfred, Chicago, Ill. Skate-protector. No. 1,341,853; June 1; v. 275; p. 47.
Johnson, Alfred B., Blooming Grove, and V. Green, Edgerton, Wis. Hog-holder. No. 1,343,213; June 15; v. 275; p. 431.
Johnson, Alfred E. (See Frost, Robert T., assignor.)
Johnson, Carter J., Green Bay, Wis. Turnbuckle-wrench. No. 1,344,800; June 29; v. 275; p. 872.
Johnson, Charles K., Danube, Minn. Riding attachment for harrows. No. 1,343,827; June 15; v. 275; p. 551.
Johnson, Charles L., Springfield, Ohio. Cap-removing tool. No. 1,342,848; June 8; v. 275; p. 295.
Johnson, Charles M., Avalon, Pa. Steel alloy. No. 1,342,911; June 8; v. 275; p. 308.
Johnson, Charles M., Avalon, Pa. Bunsen burner. No. 1,342,912; June 8; v. 275; p. 308.
Johnson, Charles M., Avalon, Pa. Vault-plate. No. 1,342,913; June 8; v. 275; p. 308.
Johnson, Charley H., Anoka, Minn. Cement-block tamper. No. 1,344,230; June 22; v. 275; p. 694.
Johnson, David F., Fort Washington, Md. Fountain-pen-locking clip. No. 1,344,897; June 29; v. 275; p. 890.
Johnson Fare Box Company. (See Johnson, Jay M., assignor.)
Johnson Fare Box Company. (See Woodward, Arthur H., assignor.)
Johnson, Frank P., assignor to H. Voeleker, Danville, Pa. Garment-hanger. No. 1,342,265; June 1; v. 275; p. 128.
Johnson, Fred V., Berkeley, Calif. Bearing. No. 1,342,541; June 8; v. 275; p. 234.
Johnson, Frederick J., Jersey City, N. J. Means for lifting, lowering, and securing a window-sash. No. 1,343,322; June 15; v. 275; p. 451.
Johnson, Gustaf F., Chicago, Ill. Seed-planter. No. 1,344,764; June 29; v. 275; p. 865.
Johnson, Harry C. (See Shaw, Levi M., assignor.)
Johnson, Jay M., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin and ticket fare box and register. No. 1,344,898; June 29; v. 275; p. 890.
Johnson, John A., *et al.* (See Jonsson, Jonas, assignor.)
Johnson, John H., Lemoore, Calif. Fork-scraper. No. 1,341,750; June 1; v. 275; p. 27.
Johnson, Lewis O., Ralston, Nebr. Table-drawer. No. 1,345,194; June 29; v. 275; p. 946.
Johnson, Louis D., and E. J. Biedenkopf, Blue Island, Ill. Skid-chain fastener for motor-vehicles. No. 1,342,631; June 8; v. 275; p. 251.
Johnson, Maurice, Newark, N. J. Paper-file. No. 1,342,504; June 8; v. 275; p. 227.
Johnson, Morrison R., and O. N. Halverson, Lewistown, Mont. Carpet-cleaning apparatus. No. 1,343,137; June 8; v. 275; p. 352.
Johnson, Peter, Los Angeles, Calif. Abdominal support. No. 1,342,914; June 8; v. 275; p. 308.
Johnson, Samuel, Tooele, Utah. Weed-cutter. No. 1,341,804; June 1; v. 275; p. 38.
Johnson, Sven P., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Electric feed mechanism for planers and current-controlling system therefor. No. 1,342,915; June 8; v. 275; p. 308.
Johnson, Tomlinson F., Jr., Atlanta, Ga. Spark-gap indicator. No. 1,344,042; June 22; v. 275; p. 658.
Johnson, William H., *et al.* (See Scholes, Edmond P., assignor.)
Johnston, Edwin A., Johnstown, Pa. Closet-ventilator. No. 1,342,716; June 8; v. 275; p. 268.
Johnston, John S., Etiwanda, Calif. Wedge-fastener for tool-handles. No. 1,343,781; June 15; v. 275; p. 542.
Johnston, Philip D., Cold Spring, N. Y. Internal-combustion engine. No. 1,344,407; June 22; v. 275; p. 729.
Johnston, Walter L. and F. L., Sidney, Nebr. Beet-topping machine. No. 1,341,909; June 1; v. 275; p. 58.
Jounstone, James, New York, N. Y. Roller-shade. No. 1,344,448; June 22; v. 275; p. 738.
Joliet Railway Supply Company. (See Burry, Vincent J., assignor.)
Jones, Alfred, Chicago, Ill. Draft appliance for chimneys or ventilator-stacks. No. 1,345,195; June 29; v. 275; p. 947.
Jones, Allen H., Belleville, N. J. Roller-bearing and making same. No. 1,343,885; June 15; v. 275; p. 563.
Jones & Attwood. (See Clifford, William, assignor.)
Jones, Buddington W. (See Barnes, Carl C., assignor.)
Jones, Clarence V., Toronto, Ontario, Canada. Window-operating device. No. 1,345,010; June 29; v. 275; p. 911.
Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Manufacture of bromates. No. 1,343,918; June 22; v. 275; p. 635.
Jones, Ernest H., Islington, London, England. Electrode for soldering and depositing metals by the electric arc. No. 1,341,647; June 1; v. 275; p. 6.
Jones, Ernest R. (See Stott, O., and Jones.)
Jones, Harry H., Portland, Oreg. Rifle. No. 1,343,456; June 15; v. 275; p. 477.
Jones, Henry P., *et al.* (See Holdaway, H. H., and Gabel, assignors.)
Jones, Jacob, Issaquah, Wash. Carbureter attachment. No. 1,344,001; June 22; v. 275; p. 650.
Jones, Omar G., Philadelphia, Pa. Car-fender. No. 1,343,727; June 15; v. 275; p. 531.
Jones, Oscar B., and D. W. Spence, Columbus, Ohio. Valve-truing device. No. 1,342,632; June 8; v. 275; p. 251.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,343,138; June 8; v. 275; p. 353.
Jones, Samuel M., assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,343,139; June 8; v. 275; p. 353.
Jones, Simon, New York, N. Y. Furniture-bracket. No. 1,345,011; June 29; v. 275; p. 911.
Jones, Simon, New York, N. Y. Holder. No. 1,345,012; June 29; v. 275; p. 911.
Jones, William P. (See Merritt, O. L., and Jones.)
Jongepier, Jacobus F. G., Schiedam, Netherlands. Office-ledger. No. 1,343,879; June 15; v. 275; p. 562.
Jonsson, Jonas, assignor of one-third to F. C. Miller and one-third to J. A. Johnson, Leonardville, Kans. Combined extensible or adjustable and foldable stepladder. No. 1,343,542; June 8; v. 275; p. 234.
Jordan, Daniel, Harrison, Nebr. Gate. No. 1,343,367; June 15; v. 275; p. 460.
Jordan, Robert M., Cooper, Tex. Piston-ring. No. 1,343,828; June 15; v. 275; p. 552.
Joseph, Horace, *et al.* (See Palmer, Victor C., assignor.)
Joslin, Charles T., assignor to The Russ Company, Cleveland, Ohio. Measuring-faucet. No. 1,342,173; June 1; v. 275; p. 110.
Joy, Henry B., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,342,964; June 8; v. 275; p. 318.
Joyce-Cridland Company, The. (See Ripsch, C. W., Dawley, and Derby.)
Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
Julien, Cyprien E. P., Paris, France. Vehicle-wheel. No. 1,344,512; June 22; v. 275; p. 751.
Junek, Rudolph O., Esterhazy, Saskatchewan, Canada. Safety-hitch. No. 1,344,890; June 29; v. 275; p. 890.
Jungling, Michael, Washington, D. C. Resilient wheel. No. 1,344,513; June 22; v. 275; p. 751.
Juresisin, George, Wilkes-Barre, Pa. Self-serving table. No. 1,344,900; June 29; v. 275; p. 891.
Jury, Alfred E., Newark, N. J., assignor to Morgan & Wright. Friction and flexing apparatus for testing materials. No. 1,344,301; June 22; v. 275; p. 709.
Justin, Joel D., Badin, N. C. Automatic gate-operating means for dams. No. 1,344,043; June 22; v. 275; p. 659.
Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)
K. F. & C. Tire & Rubber Corporation. (See Krusemark, F. A., Funkhouser, and Carpenter, assignors.)
Kaczmarek, Edward J., Stevens Point, Wis. Device for extracting automobiles from mudholes or the like. No. 1,342,749; June 8; v. 275; p. 275.

Kadow, Richard C., Newark, N. J., assignor to S. M. Riker, Chester, N. J. Belt-buckle. No. 1,341,648; June 1; v. 275; p. 7.
Kaestner, Louis W. (See Felsenthal, H., and Kaestner.)
Kahrs, Henry J. (See Tucker, Benjamin W., assignor.)
Kalberer, Gustav, Knoxville, Pa. Tool-holder. No. 1,344,537; June 22; v. 275; p. 756.
Kalicki, Walenty, Grafton, Ohio. Plow construction. No. 1,342,386; June 1; v. 275; p. 150.
Kaminski, Albert, assignor of one-half to A. A. Gmys, Pittsburgh, Pa. Parachute. No. 1,344,044; June 22; v. 275; p. 659.
Kammitter, Frank, New York, N. Y. Automobile-bumper. No. 1,342,290; June 1; v. 275; p. 133.
Kandlbinder, Emelia F., Springfield, Ill. Die. No. 1,344,637; June 29; v. 275; p. 840.
Karchitz, Frank, Bridgeport, Conn. Toy swing-chair and sulky. No. 1,343,000; June 8; v. 275; p. 325.
Kastengren, Gustavus E., assignor to Concrete Craft Corporation, Seattle, Wash. Reinforced-concrete-ship mold. No. 1,345,013; June 29; v. 275; p. 912.
Kaufman, Adolph G., New York, N. Y. Vaporizer and holder. No. 1,342,446; June 8; v. 275; p. 216.
Kaufman, Adolph G., New York, N. Y. Vaporizer-strainer for lamps. No. 1,342,849; June 8; v. 275; p. 296.
Kaufman, Alfred, New York, N. Y. Hydrocarbon-burner. No. 1,341,910; June 1; v. 275; p. 58.
Kaufman, John, Prairie du Sac, Wis. Spring-hinge. No. 1,344,538; June 22; v. 275; p. 756.
Kavanagh, Leo M., Baltimore, Md. Gasolene-dispensing apparatus. No. 1,344,949; June 29; v. 275; p. 900.
Kay, William E., Elyria, Ohio. Protected pneumatic heel. No. 1,342,291; June 1; v. 275; p. 133.
Keating, Robert M., Springfield, Mass. Lunch-chair. No. 1,344,901; June 29; v. 275; p. 891.
Keeler, Charles A., assignor of one-fourth to C. C. Shamp and one-fourth to A. A. Myers, Cleveland, Ohio. Flagstaff. No. 1,343,140; June 8; v. 275; p. 353.
Kehr, Cyrus, trustee. (See Simpson, William F., assignor.)
Keller, Julius, Jr. (See Lederman, John E., assignor.)
Keller, Karl O., assignor of one-half to R. P. Doxford, Sunderland, Durham, England. Fuel-injection valve for oil-engines. No. 1,341,911; June 1; v. 275; p. 58.
Keller, Stanislaus F., Franklin, La. Settling-tank. No. 1,345,090; June 29; v. 275; p. 926.
Kelley, James. (See Reid, P. A. and W. V., and Kelley.)
Kelley, Spencer D., administrator. (See Black, Josiah, assignor.)
Kellogg, Andrew J., Acton, Calif. Automatic lockout for lamp-sockets. No. 1,345,091; June 29; v. 275; p. 926.
Kellogg, Hosford D., Haverford, Pa. Radiator. No. 1,341,649; June 1; v. 275; p. 7.
Kellogg, M. W. Company, The. (See Pratt, William A., assignor.
Kellogg Switchboard and Supply Company. (See Wolf, George D., assignor.)
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Kelly, John A. (See Shafer, Frank B., assignor.)
Kelly, Mary C. (See Swope, Leon W., assignor.)
Kelly-Springfield Tire Co. (See Lacroix, J. D., and Petersen, assignors.)
Kelly, William E., Cleveland, Ohio. Adjusting means for boring-bar cutters. No. 1,342,447; June 8; v. 275; p. 216.
Kelly, William M., Jersey City, N. J. Stock indicating and recording device. No. 1,343,511; June 15; v. 275; p. 488.
Kelsey, Harry S. (See Jaeger, Otto, assignor.)
Kelzer, Frank L., Chaska, Minn. Automobile-ventilator. No. 1,343,919; June 22; v. 275; p. 635.
Kemp, Walter D., New York, N. Y. Doll. No. 1,341,985; June 1; v. 275; p. 73.
Kempton, Willard H., B. J. Gudge, Wilkinsburg, and F. P. Lauffer, Irwin, Pa., assignors to Westingbouse Electric and Manufacturing Company. Forming stream-line bodies. No. 1,344,765; June 29; v. 275; p. 865.
Kenagy, Paul J., Newton, Kans. Electric sign. No. 1,343,141; June 8; v. 275; p. 353.
Kenchen, Simon, New Haven, Conn. Vulcanizer. No. 1,342,916; June 8; v. 275; p. 309.
Kendall, Henry A., assignor to The Efficiency Engineering Company, Baltimore, Md. Lock for automobiles. No. 1,345,014; June 29; v. 275; p. 912.
Kendall, Sarah F. (See Kendall, William H., assignor.)
Kendall, William G., Newark, N. J. Vanity-case. No. 1,342,116; June 1; v. 275; p. 99.
Kendall, William H., assignor to S. F. Kendall, Monson, Mass. Machine for blocking and pressing hats. No. 1,343,185; June 8; v. 275; p. 361.
Kennedy, Benjamin H. (See Kennedy, Dewey M., assignor.)
Kennedy, Dewey M., assignor of one-half to B. H. Kennedy, Rochester, N. Y. Caster. No. 1,342,448; June 8; v. 275; p. 216.
Kennedy, George W., Waterloo, Iowa. Cream and milk aerator. No. 1,344,902; June 29; v. 275; p. 891.
Kennedy, Walter J., and G. Yelle, Indian Orchard, Mass. Monument. No. 1,345,196; June 29; v. 275; p. 947.
Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Ball-end-forming machine. No. 1,343,267; June 15; v. 275; p. 441.
Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Device for attaching balls to container-bodies. No. 1,343,920; June 22; v. 275; p. 635.
Kepler, Darrell S., Crawfordsville, Ind., assignor of one-half to H. A. Woodworth, Sedalia, Mo. Mixing apparatus for soda-fountains. No. 1,343,829; June 15; v. 275; p. 552.
Kerner Manufacturing Company. (See Heller, Jesse B., assignor.)
Kerosene Burning Carburetor Company. (See McCutchan, Harvey S., assignor.)
Kerr, John W., Los Angeles, Calif. Can cap and seal. No. 1,343,782; June 15; v. 275; p. 542.
Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Internal-combustion engine. No. 1,343,142; June 8; v. 275; p. 353.
Kessler, Ernst, Biel, Switzerland. Hose-coupling especially applicable to pressure and vacuum brake pipes. No. 1,343,084; June 8; v. 275; p. 342.
Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Wire-drawing machinery. No. 1,341,986; June 1; v. 275; p. 73.
Keystone Driller Company. (See Downie, Robert M., assignor.)
Kibler, John B., Girard, Pa. Electric treating and exercising machine. No. 1,344,002; June 22; v. 275; p. 650.
Kidde, Walter. (See Freygang, W. H., Kidde, and Worth.)
Kidde, Walter, & Company. (See Freygang, W. H., Kidde, and Worth, assignors.)
Kidder, Dwight E., Minneapolis, Minn., assignor of one-half to M. E. Olson, Vancouver, British Columbia, Canada. Automobile-headlight control. No. 1,343,143; June 8; v. 275; p. 353.
Kiesel, William F., Jr., Altoona, Pa. Economizer for locomotives. No. 1,343,144; June 8; v. 275; p. 354.
Kleves, Phillip, *et al.* (See Mallove, Morris, assignor.)
Klewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Driving and stopping mechanism. No. 1,344,345; June 22; v. 275; p. 717.
Kliszstoff, Petro, Mundare, Alberta, Canada. Automatic railway-gate. No. 1,344,766; June 29; v. 275; p. 865.
Killion, Wesley W., Terre Haute, Ind. Combined table and book-stand. No. 1,345,197; June 29; v. 275; p. 947.
Kincer, Joseph B., Washington, D. C. Vehicle-spring. No. 1,341,805; June 1; v. 275; p. 38.
Kinch, George E., Quirindi, New South Wales, Australia. Lid for closet-seats. No. 1,342,505; June 8; v. 275; p. 227.
Kinch, George E., Quirindi, New South Wales, Australia. Pan-closet cabinet. No. 1,343,830; June 15; v. 275; p. 552.
King, James B. (See Hughes, W. E., and King.)
King, James D., Meridian, Miss. Safety attachment for railway-cars. No. 1,344,231; June 22; v. 275; p. 694.
King, James D., Meridian, Miss. Safety attachment for railway-cars. No. 1,344,232; June 22; v. 275; p. 694.
King, Lewis G., Deposit, N. Y. Air-pump connector for automobiles. No. 1,344,539; June 22; v. 275; p. 756.
King Lock Company, The. (See Baird, Edward P., assignor.)
King, Malcolm. (See Knight, Herbert, assignor.)
King, Thomas W., Long Island City, N. Y. Combined dress-suit case and locker. No. 1,344,408; June 22; v. 275; p. 729.
Kingsbury, Albert. (See Howarth, Harry A. S., assignor.)
Kingsbury, Albert, Pittsburgh, Pa. Horizontal thrust-bearing. (Reissue.) No. 14,878; June 8; v. 275; p. 363.
Kinikin, John L., Garden City, Kans. Self-adjusting curtain-draper. No. 1,344,233; June 22; v. 275; p. 695.
Kinkel, Gustavus A., Buffalo, N. Y. Pie-pan. No. 1,343,395; June 15; v. 275; p. 466.
Kinley, Oren W., Des Moines, Iowa. Spark-gap. No. 1,342,816; June 8; v. 275; p. 289.
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kinsley, Richard F., East Cleveland, Ohio, assignor to The Mechanical Rubber Company. Material for reinforcing rubber articles and making same. No. 1,343,368; June 15; v. 275; p. 461.
Kinsman, Frank E., Leominster, Mass. Food product and making same. No. 1,344,638; June 29; v. 275; p. 841.
Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,341,650; June 1; v. 275; p. 7.
Kirchner, Reinhold, Mobile, Ala. Building-protector. No. 1,344,540; June 22; v. 275; p. 756.
Kirkpatrick, William A., Seattle, Wash. Wrench. No. 1,344,234; June 22; v. 275; p. 695.
Kiss, James. (See Bachardy, S. J., and Kiss.)
Kissinger, George A., San Gabriel, Calif. Cold-chisel. No. 1,343,323; June 15; v. 275; p. 451.
Kitaoka, Torakl, Los Angeles, Calif. Detachable can-funnel. No. 1,344,801; June 29; v. 275; p. 872.
Kitson, Thomas B., Leeds, England. Furnace. No. 1,343,457; June 15; v. 275; p. 477.
Kitterman, Jesse C. (See Watson, R. B., and Kitterman.)
Klauder-Weldon Dyeing Machine Company, The. (See Going, William J., assignor.)
Klein, Otto, Paterson, N. J. Target. No. 1,342,022; June 1; v. 275; p. 80.

Kleine, Harry A., Jersey City Heights, N. J. Auto-license indicating device. No. 1,342,850; June 8; v. 275; p. 296.
Klenke, August C., Berkeley, Calif. Toy vehicle. No. 1,345,092; June 29; v. 275; p. 927.
Kline Company, The. (See Barber, William J., assignor.)
Kline, Eugene F. (See Cory, Harvey, assignor.)
Kline, Harry L., Portland, Oreg. Rotary internal-combustion engine. No. 1,341,854; June 1; v. 275; p. 47.
Kline, Robert I., Indianapolis, Ind. Artificial-stone making. No. 1,344,087; June 22; v. 275; p. 667.
Kline, Walter, Mogadore, Ohio. Laminated fabric. No. 1,341,987; June 1; v. 275; p. 73.
Kline, William, Waynesboro, Va., assignor of one-half to W. J. Moore, Washington, D. C. Sound-regulator for audible signals. No. 1,342,543; June 8; v. 275; p. 235.
Klingham, Louis, Cleveland, Ohio., assignor to American Can Company, New York, N. Y. Nozzle-can. No. 1,343,921; June 22; v. 275; p. 635.
Klipper, Joseph, West New York, N. J. Signal device for automobiles. No. 1,342,049; June 1; v. 275; p. 85.
Klise, Clayton L., Yankton, S. D. Aerial torpedo. No. 1,343,831; June 15; v. 275; p. 552.
Kluczny, F. R. (See Hoffmann, Michael, assignor.)
Knever, Fred W., assignor to The C. F. Pease Company, Chicago, Ill. Hinged ruling-pen. No. 1,344,045; June 22; v. 275; p. 659.
Knapp, Herbert W., Kansas City, Mo. Water-level-signaling attachment for motor-cars. No. 1,344,904; June 29; v. 275; p. 892.
Knaup, Clarence S. (See Belling, Bernard A., assignor.)
Knee, Albert E., Bluefield, and G. B. Hopkins, Lex, W. Va. Mechanical long-wall coal-loading conveyer. No. 1,343,369; June 15; v. 275; p. 461.
Knight, Herbert, Brockley, assignor to M. King, St. John's Wood, Middlesex, England. Carbureter and vaporizer. No. 1,344,698; June 29; v. 275; p. 852.
Knight, James H. (See Anderson, August R., assignor.)
Knopf, Sidney M., New York, N. Y. Attachment for telephone. No. 1,341,855; June 1; v. 275; p. 48.
Knopp, Otto A., Oakland, Calif. Compression-rheostat. No. 1,345,015; June 29; v. 275; p. 912.
Knott, Frank W. (See Garllus, B., and Knott.)
Knowles, Bernard D., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Antismutting device for traveling sheets. No. 1,342,117; June 1; v. 275; p. 99.
Knowlton, John A., Dorchester, assignor to Universal Tide Power Co., Boston, Mass. Hydraulic air-motor. No. 1,342,682; June 8; v. 275; p. 261.
Knutsen, John, Bowden, Alberta, Canada, assignor of one-half to C. Louttit, Prince George, British Columbia, Canada. Track-adjusting machine. No. 1,341,912; June 1; v. 275; p. 59.
Kobe, Shizuo, Cleveland, Ohio. Gas-stove. No. 1,344,136; June 22; v. 275; p. 676.
Koch, George, assignor to E. Cadgene and O. Berg, Paterson, N. J. Pile fabric. No. 1,342,589; June 8; v. 275; p. 244.
Koch, Hans. (See Eckert, Karl, assignor.)
Kochendarfer, Sirius E., Washington, Pa. Rotary-engine. No. 1,344,137; June 22; v. 275; p. 676.
Kocchlin, Emile R., assignor to Naamlooze Vennootschap Weduwe J. Ahrend & Zoons Industrie en Handelsvereeniging, Amsterdam, Netherlands. Drawing-table. No. 1,341,988; June 1; v. 275; p. 73.
Koehl, George J., San Diego, Calif., assignor to Neptune Sea Food Company. Can selecting and weighing apparatus. No. 1,343,458; June 15; v. 275; p. 478.
Koenig, William J., deceased, Brooklyn, N. Y.; A. Allen administratrix. Emergency-lamp; No. 1,344,206; June 22; v. 275; p. 690.
Koepp, Charles W. (See Christman, A. G., and Koepp.)
Koerner, Charles L. (See Miller, Emil A., assignor.)
Koetzle, Arthur, New York, N. Y., assignor to Rohm & Haas Company. Tanning material and producing same. No. 1,344,950; June 29; v. 275; p. 900.
Koetzle, Arthur, New York, N. Y., assignor to Rohm & Haas Company. Tanning material and producing same. No. 1,344,951; June 29; v. 275; p. 900.
Koetzle, Arthur, New York, N. Y., assignor to Rohm & Haas Company. Tanning material and producing same. No. 1,344,952; June 29; v. 275; p. 900.
Kohler, Conrad, Zurich, Switzerland. Device for the recuperation of available heat on steam-locomotives provided with surface condensers. No. 1,342,544; June 8; v. 275; p. 235.
Kohlhepp, Frederick A., assignor to Larter & Sons, Newark, N. J. Locket. No. 1,342,817; June 8; v. 275; p. 289.
Kohn, Monroe. (See Cowell, John W., assignor.)
Koiransky, Simon, Lyon, France. Apparatus for sea navigation. No. 1,344,903; June 29; v. 275; p. 891.
Konar, John, Chicago, Ill. Internal-combustion chamber for engines. No. 1,342,449; June 8; v. 275; p. 216.
König, Adolf, Hoboken, N. J. Machine for forming sawblades. No. 1,341,806; June 1; v. 275; p. 38.
Kopecky, John, Mason City, Iowa. Bank-check. No. 1,343,235; June 22; v. 275; p. 695.
Kopf, John C., Bellevue borough, Pa. Universal joint. No. 1,343,728; June 15; v. 275; p. 531.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack-bar. No. 1,341,856; June 1; v. 275; p. 48.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Gear-cutting machine. No. 1,343,396; June 15; v. 275; p. 466.
Koplin, Otto E., Marion, Tex. Crank-axle adjustment. No. 1,343,268; June 15; v. 275; p. 441.
Kornaszewski, Waclaw, Detroit, Mich. Combined table and seat. No. 1,342,387; June 1; v. 275; p. 150.
Kosich, Mark, New York, N. Y. Permutation-lock. No. 1,343,145; June 8; v. 275; p. 354.
Kost, Stephen A., and W. Yaeger, Buffalo, N. Y., assignors to The Quality Brands Company, Cleveland, Ohio. Glazing-machine. No. 1,342,450; June 8; v. 275; p. 216.
Kothny, Gottdank L. E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control-valve for refrigerating apparatus. No. 1,343,975; June 22; v. 275; p. 645.
Kozik, Joseph, U. S. Army. Protecting screen or shield. No. 1,344,588; June 22; v. 275; p. 766.
Kraft, Jens E., Groveland, Calif. Sight for firearms. No. 1,344,639; June 29; v. 275; p. 841.
Krajnah, Michael, and J. Madunicky, Danbury, Conn. Machine for hardening hats. No. 1,343,729; June 15; v. 275; p. 532.
Kramer, Benjamin G., assignor to C. G. Fisher and J. A. Allison, Indianapolis, Ind. Brake mechanism. No. 1,344,003; June 22; v. 275; p. 651.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switch mechanism. No. 1,342,219; June 1; v. 275; p. 120.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,342,545; June 8; v. 275; p. 235.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,342,546; June 8; v. 275; p. 235.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,342,547; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,342,548; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism with door-interlock. No. 1,342,549; June 8; v. 275; p. 236.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch-locking safety-panel. No. 1,342,550; June 8; v. 275; p. 236.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
Krapf, Charles H., Brooklyn, N. Y. Adjustable and releasing guard for slicing-knives. No. 1,342,292; June 1; v. 275; p. 133.
Krauer, Joseph, Heaton Chapel, near Manchester, England. Apparatus for treatment of loss of hair on the head. No. 1,343,512; June 15; v. 275; p. 488.
Krause, William S., North La Junta, Colo. Demountable rim. No. 1,342,118; June 1; v. 275; p. 99.
Kraushaar, Peter, Montebello, Calif. Phonograph table-cabinet. No. 1,343,622; June 15; v. 275; p. 516.
Krauss, Hans G., Munich, Germany. Machine-tool. No. 1,344,236; June 22; v. 275; p. 695.
Krauss, Max, Philadelphia, Pa. Talking-machine. No. 1,341,751; June 1; v. 275; p. 27.
Krivosky, Frank, and J. Stoykovich, Akron, Ohio. Washer-setter for rubber-heel molds. No. 1,344,237; June 22; v. 275; p. 695.
Krogh, Carl A., *et al.*, administrators. (See Krogh, Ferdinand W.)
Krogh, Ferdinand W., deceased, San Francisco, Calif.; C. A. Krogh and O. Poulsen, administrators. Deep-well propeller-screw pump. No. 1,342,551; June 8; v. 275; p. 236.
Krogh, Ferdinand W., deceased; C. A. Krogh, San Francisco, and O. Poulsen, Alameda, Calif., administrators. Centrifugal pump. No. 1,342,552; June 8; v. 275; p. 237.
Krohm, Nelson, Chicago, Ill., assignor to The Adams & Westlake Company. Sanitary car-hopper. No. 1,433,730; June 15; v. 275; p. 532.
Kropacz, John, assignor of one-third to J. Jakuricz, Calgary, Alberta, Canada. Aeronautic device. No. 1,343,055; June 8; v. 275; p. 336.
Kruger, Paul, Charleston, W. Va. Handcuff. No. 1,342,334; June 1; v. 275; p. 141.
Krusemark, Frederick A., L. W. Funkhouser, and H. G. Carpenter, assignors to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Cushion-tire. No. 1,344,346; June 22; v. 275; p. 718.
Kryvoshey, John. (See Chrobak, Kazimier, assignor.)
Kubatzky, Otto, St. Louis, Mo. Weather-strip. No. 1,343,224; June 15; v. 275; p. 451.
Kuck, William F., Bocaratone, Fla. Reversible brush. No. 1,345,198; June 29; v. 275; p. 947.
Kuderer, Charles, Pittsburgh, Pa. Motorcycle back-rest. No. 1,342,388; June 1; v. 275; p. 151.
Kugler, Charles H., Cozad, Nebr. Tractor. No. 1,343,783; June 15; v. 275; p. 543.
Kuneus, Joseph, Chicago, Ill. Draft-detaching device. No. 1,342,119; June 1; v. 275; p. 99.
Kuns, John H., Long Beach, Calif. Brake for phonographs. No. 1,342,023; June 1; v. 275; p. 80.
Kuntz, Jake J., Oakville, Iowa. Jack. No. 1,342,389; June 1; v. 275; p. 151.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,345,093; June 29; v. 275; p. 927.

Kuypers, Gerard, Rotterdam, assignor of one-half to F. K. T. van Iterson, Heerlen, Netherlands. Cooling-tower of reinforced concrete. No. 1,343,832; June 15; v. 275; p. 553.

Kyle, James A., Salt Lake City, Utah. Electric lock. No. 1,343,731; June 15; v. 275; p. 532.

Kysor, Walter A., assignor to Acme Motor Truck Co., Cadillac, Mich. Motor-truck construction. No. 1,342,266; June 1; v. 275; p. 128.

Labitotière, Edouard, Bezons, France. Crank for light high-speed engines. No. 1,342,683; June 8; v. 275; p. 261.

Labofish, Charles S., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,174; June 1; v. 275; p. 110.

Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Metallic structure. No. 1,342,818; June 8; v. 275; p. 290.

Lackner, John, Long Island City, N. Y. Holder for paper dishes. No. 1,344,802; June 29; v. 275; p. 873.

La Count, Eldridge I. (See Prince, B. A., and La Count.)

Lacroix, Joseph D., and A. H. Petersen, Akron, Ohio, assignors to Kelly-Springfield Tire Co., New York, N. Y. Mixing-machine. No. 1,344,541; June 22; v. 275; p. 756.

Lacy, Charles E., Richmond, Va. Automobile-pedal lock. No. 1,343,459; June 15; v. 275; p. 478.

Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Centrifugal casting-machine. No. 1,344,409; June 22; v. 275; p. 730.

Ladd, John W. B., and R. E. Rich, Chicago, Ill. Crank-shaft transmission-pulley. No. 1,341,914; June 1; v. 275; p. 59.

Ladd, John W. B., and R. E. Rich, Chicago, Ill. Combined water and air pump for automobiles. No. 1,341,915; June 1; v. 275; p. 59.

Lafferty, Harry C., New York, N. Y. Clothesline-hook. No. 1,344,589; June 22; v. 275; p. 766.

La Fontaine, George A., assignor of one-half to O. Steinen, Los Angeles, Calif. Clipper-shears. No. 1,343,174; June 8; v. 275; p. 359.

Lafontaine, George A., San Pedro, Calif., assignor of one-half to O. Steinen, Los Angeles, Calif. Hair-clipper. No. 1,343,175; June 8; v. 275; p. 359.

Lagersten, Frans A., assignor to Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Water-cooled working-cylinder for internal-combustion engines. No. 1,342,633; June 8; v. 275; p. 251.

Laise, Clemens A. (See Liebmann, A. L., and Laise.)

Laist, Frederick, and F. F. Frick, Anaconda, Mont. Producing sulfur dioxid. No. 1,344,905; June 29; v. 275; p. 892.

La Jeunesse, Jean B. A., Alameda, Calif. Weather-strip. No. 1,342,050; June 1; v. 275; p. 86.

Lake, Clair D., Endicott, assignor to The Tabulating Machine Company, New York, N. Y. Connector-plug. No. 1,342,819; June 8; v. 275; p. 290.

Lake, Frank, Miami, Ariz. Hay rake and racker. No. 1,342,293; June 1; v. 275; p. 133.

Lamb, James J. (See Wright, W. M., Teeples, and Lamb.)

Lamb, Nathan H., Fallon, Mont. Paper-hanging device. No. 1,344,906; June 29; v. 275; p. 892.

Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,341,651; June 1; v. 275; p. 7.

La Montaine, Sidney J., Chicago, Ill. Connecting-plug. No. 1,343,676; June 15; v. 275; p. 521.

Lancaster Lens Company, The. (See Meth, Max, assignor.)

Land, Robert E., Albany, Ga. Running-in machine for gasolene-motors. No. 1,344,907; June 29; v. 275; p. 892.

Landers, Clyde W., Portland, Oreg. Direction-indicator for automobiles or the like. No. 1,345,199; June 29; v. 275; p. 947.

Landis, Abraham B., Enfield, assignor to Landis Machine Company, Waynesboro, Pa. Cutter-head. No. 1,344,908; June 29; v. 275; p. 892.

Landis, Clayton B., Philadelphia, Pa. Cabinet. No. 1,342,851; June 8; v. 275; p. 296.

Landis Machine Company. (See Landis, Abraham B., assignor.)

Lane, Charles C., Los Angeles, Calif. Multiple-process Chilian mill. No. 1,342,917; June 8; v. 275; p. 309.

Lane, James H., Marshalltown, Iowa. Wrench. No. 1,344,542; June 22; v. 275; p. 757.

Langguth, Wilhelm, Esslingen, Germany, assignor, by mesne assignments, United States Envelope Company, Springfield, Mass. Making window-envelops. No. 1,341,807; June 1; v. 275; p. 39.

Langley, Jesse R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,343,214; June 15; v. 275; p. 431.

Langmack, John J., Portland, Oreg. Automatic oil-pump with sight-feed. No. 1,343,677; June 15; v. 275; p. 521.

Langrell, Edward W., Penns Grove, and J. J. Nuss, Carneys Point, N. J. Collapsible crate. No. 1,344,543; June 22; v. 275; p. 757.

Lannert, John A., Cleveland, Ohio. Wall construction. No. 1,344,803; June 29; v. 275; p. 873.

Lanning, Charles D. (See Field, M. F., and Lanning.)

Lanning, Charles D., Boston, Mass. Winding mechanism. No. 1,344,449; June 22; v. 275; p. 738.

Lanning, James K. (See Cunniff, E. A. and J. V., and Lanning.)

Lapenda, George, Chicago, Ill. Valve or cock. No. 1,342,051; June 1; v. 275; p. 86.

Larison, Eldon L., Anaconda, Mont. Making sulfuric acid. No. 1,342,024; June 1; v. 275; p. 84.

Larsen, Edward A., Larkspur, Calif. Compressor-mold for forming concrete huts. No. 1,343,176; June 8; v. 275; p. 360.

Larson, August V., Brooklyn, N. Y. Expansion-engine. No. 1,343,056; June 8; v. 275; p. 336.

Larson, Edward E., Thompson, Iowa. Apparatus for reboring cylinders. No. 1,344,410; June 22; v. 275; p. 730.

Larson, Edward E., Thompson, Iowa. Adjustable reamer. No. 1,344,411; June 22; v. 275; p. 730.

Larson, Elmer L. (See Ferguson, T. R., and Larson.)

Larson, Walford, Detroit, Mich. Cultivator. No. 1,344,804; June 29; v. 275; p. 873.

Larter & Sons. (See Kohlhepp, Frederick A., assignor.)

Lask, Stephen J., Cleveland, Ohio. Curtain-fixture. No. 1,344,412; June 22; v. 275; p. 730.

Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,342,120; June 1; v. 275; p. 100.

La Tour, Lee, and A. F. Munnell, assignors of one-third to W. Small, Omaha, Nebr. Roller for printing-presses. No. 1,345,200; June 29; v. 275; p. 948.

Lanz, Ray S. (See Wilson, James M., assignor.)

Lauffer, Frank P. (See Kempton, W. H., Gudge, and Lauffer.)

Laughlin Fruit Refiners. (See Winchester, W. I., assignor.)

Lavalee, William, Central Falls, R. I. Safety-driver for road-vehicles. No. 1,344,238; June 22; v. 275; p. 696.

Lavryk, Feodosy, Chicago, Ill. Life-saving device. No. 1,341,752; June 1; v. 275; p. 28.

Lawrence, Frederick K., Chicago, Ill. Grease-cup filler. No. 1,341,652; June 1; v. 275; p. 7.

Lawrence, James C., West Asheville, N. C. Brace for milling-machines. No. 1,342,390; June 1; v. 275; p. 151.

Laycock, Arthur M., Kingston, Pa. Axle construction. No. 1,342,634; June 8; v. 275; p. 252.

Lea, Aaron V., assignor of one-half to J. Lea, Bisbee, Ariz. Egg-carrier. No. 1,343,629; June 15; v. 275; p. 512.

Lea, Joseph. (See Lea, Aaron V., assignor.)

Leach, Basil W., Golconda, Nev. Rotary toothbrush. No. 1,341,916; June 1; v. 275; p. 59.

Lenke, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. No. 1,344,699; June 29; v. 275; p. 852.

Lean, Roderick, Manufacturing Company. (See Warne, Frederick C., assignor.)

Leavell, Charles, *et al.* (See Scholes, Edmond P., assignor.)

Lebau, Louis, Pittsburgh, Pa. Gas-heater. No. 1,342,121; June 1; v. 275; p. 100.

Lechtenberg, Leo F., Quincy, Ill., assignor, by mesne assignments, to Rowsey Gasoline Process Company, Humboldt, Kans. Tube-scraping apparatus. No. 1,343,215; June 15; v. 275; p. 432.

Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Corset-steel. (Reissue.) No. 14,892; June 22; v. 275; p. 771.

Lederman, John E., Chicago, Ill., assignor, by mesne assignments, to J. Keller, Jr., Philadelphia, Pa. Recording and vending machine. No. 1,344,909; June 29; v. 275; p. 893.

Ledoux, Hector, assignor to The Stafford Company, Readville, Boston, Mass. Selvage-forming device. No. 1,344,413; June 22; v. 275; p. 730.

Lee, Albert E., Yoker, Scotland, and E. G. Milsted, Epsom, England, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine cabinet or casing. No. 1,342,820; June 8; v. 275; p. 290.

Lee, Albert H., Portland, Oreg. Tongs. No. 1,343,057; June 8; v. 275; p. 336.

Lee, Albert P., assignor to Lee Loader & Body Co., Chicago, Ill. Movable loading-hopper. No. 1,342,919; June 8; v. 275; p. 309.

Lee, Charles G. (See Wilson, C. H., and Lee.)

Lee, Charles M., Falls City, Nebr. Fan, propeller, &c. No. 1,341,653; June 1; v. 275; p. 8.

Lee, Harry A., Kansas City, Mo. Valve-stem packing-cup. No. 1,344,347; June 22; v. 275; p. 718.

Lee Loader & Body Co. (See Lee, Albert P., assignor.)

Lee, Oluf, Rolette, N. D. Combination-tool. No. 1,344,046; June 22; v. 275; p. 659.

Lee, Robert C., assignor to A. Scrivenor, Richmond, Va. Work-holding stand. No. 1,341,809; June 1; v. 275; p. 39.

Leeding, Ernest J., and A. A. Remington, Birmingham, England. Detachable tread for wheels and means of fixing same. No. 1,343,784; June 15; v. 275; p. 543.

Lees, Joseph, West Bethlehem, Pa. Lawn-edge-trimming gage. No. 1,343,269; June 15; v. 275; p. 441.

Legal, Leopold. (See Grumme, William F., assignor.)

Le Gear, Harvey, Chicago, Ill. Clam-shell bucket. No. 1,342,996; June 8; v. 275; p. 325.

Legg, Thomas A., Lumberton, Miss. Flue-pan. No. 1,342,918; June 8; v. 275; p. 309.

Leggett, Ross M., Akron, Ohio, assignor to Ozone Company of America, Milwaukee, Wis. Removing phenol and other aromatic hydrocarbons from water or other liquids. No. 1,341,913; June 1; v. 275; p. 59.

Le Grande, Nicholas J., Goodwin, Ark. Valve-gear for internal-combustion engines. No. 1,345,094; June 29; v. 275; p. 927.

Leiman, Gustave A., New York, N. Y. Machine for making hollow glass bodies. No. 1,342,821; June 8; v. 275; p. 290.

Leinweber, Curtis H., *et al.*, executors. (See Leinweber, Frederick H.)

Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Internal-combustion engine. No. 1,342,553; June 8; v. 275; p. 237.

Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber executors. Internal-combustion engine. No. 1,344,641; June 29; v. 275; p. 841.

Leinweber, Victor H., *et al.*, executors. (See Leinweber, Frederick H.)

Leinweber, Victor H., assignor to Continental Air Craft & Transportation Company, Chicago, Ill. Propeller-blade. No. 1,344,640; June 29; v. 275; p. 841.

Leinweber, William H., *et al.*, executors. (See Leinweber, Frederick H.)

Leipert, August H., Brooklyn, and A. G. Herreshoff, New York, N. Y., assignors to International Motor Company, New York, N. Y. Gearing. No. 1,342,175; June 1; v. 275; p. 111.

Leitch, Frank, Detroit, Mich. Flower-pot support. No. 1,343,568; June 15; v. 275; p. 500.

Leitch, John W., Huddersfield, England. Apparatus for solidifying or concentrating materials. No. 1,343,833; June 15; v. 275; p. 553.

Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Opening means for centrifugal bowls. No. 1,343,325; June 15; v. 275; p. 452.

Lemieux, Thomas D., Lakewood, Ohio. Combined cylinder-head. No. 1,343,678; June 15; v. 275; p. 522.

Lemoine, Jules L., Paris, France. Smooth-hand conveyer or elevator. No. 1,342,684; June 8; v. 275; p. 262.

Lenhart, Charles, New York, N. Y. Extension-slide for cabinet-drawers. No. 1,343,513; June 15; v. 275; p. 488.

Leonard, Henry E., Brooklyn, assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,344,302; June 22; v. 275; p. 709.

Leonard, William B., Chicago, Ill. Chair for reinforcing-rods for reinforced concrete. No. 1,343,326; June 15; v. 275; p. 452.

Leopold, George G., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Lifting-jack. No. 1,343,732; June 15; v. 275; p. 532.

Leopold, George O. (see Fegley, T. J., and Leopold.)

Leopard, Sarah N., Atlanta, Ga. Apparel. No. 1,341,716; June 1; v. 275; p. 20.

Le Page, Charles E., Brooklyn, N. Y. Ash-truck. No. 1,344,047; June 22; v. 275; p. 659.

Lerch, William F., Hartford, Conn. Liquid-dispensing device. No. 1,343,085; June 8; v. 275; p. 342.

Lesselis, Allan H., New Brighton, England. Electric cable carrying or supporting means. No. 1,344,514; June 22; v. 275; p. 751.

Lester, George C. (See Helling, Charles H., assignor.)

Le Sueur, Philip J., Brighton, England. Breast-drill. No. 1,343,370; June 15; v. 275; p. 461.

Le Sueur, Philip J., Brigton, England. Attachment to carpenters' and similar hand drilling-brace. No. 1,344,910; June 29; v. 275; p. 893.

Leth, Marius, Omaha, Nebr. Garment support and stretcher. No. 1,343,397; June 15; v. 275; p. 466.

Levangie, John M., South Braintree, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,342,685; June 8; v. 275; p. 262.

Levere, Albert H., assignor to David Lupton's Sons Co., Philadelphia, Pa. Metal shelving. No. 1,343,327; June 15; v. 275; p. 452.

Levin, Joseph, Baltimore, Md. Parasol. No. 1,342,451; June 8; v. 275; p. 217.

Levine, Harry, Brooklyn, N. Y. Envelop-machine. No. 1,343,146; June 8; v. 275; p. 354.

Levy, William, Paterson, N. J. Reversible railway-ticket holder. No. 1,343,569; June 15; v. 275; p. 500.

Lewis, Charles A., and H. E. Smock, Dayton, Ohio. Automatic self-propelled toy tank. No. 1,343,834; June 15; v. 275; p. 553.

Lewis, Earl A., *et al.* (See Mentzer, Claude E., assignor.)

Lewis, Harry A., Norristown, and A. D. Wood, Philadelphia, Pa. Roller-table. No. 1,342,220; June 1; v. 275; p. 120.

Lewis, Henry H., Attleboro, Mass. Box for cigarettes and like articles. No. 1,341,857; June 1; v. 275; p. 48.

Lewis, Isaac N., London, England. Breech-action for firearms. No. 1,344,911; June 29; v. 275; p. 893.

Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Stanchion-support. No. 1,341,989; June 1; v. 275; p. 74.

Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,341,753; June 1; v. 275; p. 28.

Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-indicating apparatus. No. 1,342,635; June 8; v. 275; p. 252.

Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. No. 1,343,835; June 15; v. 275; p. 553.

Lewis, Wilfred, Haverford, Pa. Jar-molding machine. No. 1,343,836; June 15; v. 275; p. 553.

Lewis, William H., Atwell, Colo. Irrigation means. No. 1,343,871; June 15; v. 275; p. 561.

Ley, George A., Chicago, Ill. Flash-light-testing apparatus. No. 1,345,201; June 29; v. 275; p. 948.

Libbey, C. A., Company. (See Rasmussen, Robert F., assignor.)

Libby, A. D. T. (See Mitchell, John A., assignor.)

Liberty Beet Topper Company. (See Smith, Marion A., assignor.)

Liebers, Meyer, Yonkers, N. Y., assignor of one-half to H. Cole, Brooklyn, N. Y., and one-half to W. R. Osborn, New York, N. Y. Hairpin. No. 1,342,822; June 8; v. 275; p. 290.

Lieberthal, Robert H., Bridgeport, Conn. Toothbrush. No. 1,343,570; June 15; v. 275; p. 500.

Liebmann, Alfred J., New York, N. Y., and C. A. Laise, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y. Hardened material for use in the arts as substitutes for diamonds, &c., and making same. No. 1,343,976; June 22; v. 275; p. 645.

Liebmann, Alfred J., New York, N. Y., and C. A. Laise, Weehawken, N. J., assignors, by mesne assignments, to Independent Lamp and Wire Company, Inc., New York, N. Y. Hardened material for use in the arts as substitutes for diamonds, &c., and making same. No. 1,343,977; June 22; v. 275; p. 645.

Liechty, Henry, Louisville, Ohio. Horsetail-holder. No. 1,343,147; June 8; v. 275; p. 354.

Lightner, Arthur D., assignor to The Willys-Overland Company, Toledo, Ohio. Rope-clamp. No. 1,343,177; June 8; v. 275; p. 360.

Liles, William P., assignor to L. Metcalf, Marlow, Tenn. Telegraph-key. No. 1,341,810; June 1; v. 275; p. 39.

Limacher, Walter P., Pasadena, Calif. Bumper for automobiles. No. 1,341,917; June 1; v. 275; p. 59.

Lincoln, Ward W., Rock Falls, Ill. Folding wall-rack. No. 1,341,654; June 1; v. 275; p. 8.

Linden, John P., assignor to Waterbury Clock Co., Waterbury Conn. Locking device. No. 1,343,733; June 15; v. 275; p. 532.

Lindenmuth, Harry D., Fleming, Pa. Bushing-remover. No. 1,342,852; June 8; v. 275; p. 296.

Lindgren, Bror J., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Automatic clutch control for power-presses. No. 1,342,965; June 8; v. 275; p. 318.

Lindsay, James E., Selma, La. Hose and garment supporter. No. 1,343,514; June 15; v. 275; p. 489.

Link-Belt Company. (See Pratt, Howell D., assignor.)

Linnemeyer, Frederick W., *et al.* (See Milligan, Rockwell M., assignor.)

Linograph Company, The. (See Peterson, Hans, assignor.)

Linotype and Machinery Limited. (See Billington, John E., assignor.)

Lippert, Samuel, East Cleveland, Ohio. Thermostatic heat-regulator. No. 1,342,052; June 1; v. 275; p. 86.

Lipps, Evrah C., assignor to Packard Motor Car Company, Detroit, Mich. Metal-welding. No. 1,342,717; June 8; v. 275; p. 268.

Lips, Henricus J. J. M. (See Eras, V. J. M., and Lips.)

Lisenby Manufacturing Company. (See Livermore, John W., assignor.)

Litchfield, Isaac W., Newtonville, Mass. Wrench. No. 1,345,202; June 29; v. 275; p. 948.

Little, Charles H., Cleveland, Ohio. Method of and material for making drawings and other records. No. 1,343,978; June 22; v. 275; p. 646.

Little, Dallas T. (See Smith, Daniel H., assignor.)

Little, William F., St. Louis, Mo., assignor to Electric Vapor Heater Company, Wilmington, Del. Electric vapor-heater for internal-combustion engines. No. 1,344,303; June 22; v. 275; p. 709.

Livering, Charles J., St. Petersburg, Fla. Jack. No. 1,343,872; June 15; v. 275; p. 561.

Livermore, John W., assignor to Lisenby Manufacturing Company, Fresno, Calif. Tractor. No. 1,343,979; June 22; v. 275; p. 646.

Livesay, Everett G., Princeton, assignor, by mesne assignments, to Safety Mail Crane Company, Charleston, W. Va. Mail-bag crane. No. 1,344,912; June 29; v. 275; p. 893.

Livingston, Stanley D., and C. E. Stahl, assignors to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Lock mechanism. No. 1,343,187; June 8; v. 275; p. 362.

Ljungström, Birger, Stockholm, and F. Ljungström, Finspong, assignors to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Air-pump for evacuating air from condensers, refrigerating plants, and the like. No. 1,343,922; June 22; v. 275; p. 635.

Ljungström, Birger, Stockholm, assignor to Aktiebolaget Ljungströms Ångturbin, Lidingö-Brevik, Sweden. Spiral-cut gear-wheel. No. 1,343,923; June 22; v. 275; p. 636.

Ljungström, Fredrick. (See Ljungström, B. and F.)

Locarni, Vittorio, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Means for the automatic equilibrium of floating cranes. No. 1,343,630; June 15; v. 275; p. 512.

Lo Casto, Antonino, Chicago, Ill. Changeable exhibitor. No. 1,344,642; June 29; v. 275; p. 841.

Locke Insulator Mfg. Co., The. (See Goddard, Walter T., assignor.) (Reissue.)

Lockhart, Joseph C., Wellington, Kans. Liquid-fuel burner. No. 1,344,414; June 22; v. 275; p. 731.

Locomobile Company of America, The. (See Roos, Delmar G., assignor.)

Locomobile Company of America, The. (See Walter, Henry C., assignor.)

Locomotive Superheater Company. (See Schmidt, Wilhelm, assignor.)

Loeb-Strongson Corporation. (See Strongson, Herman L., assignor.)

Lofstrom, Robert W., Worcester, Mass. Lathe-dog. No. 1,342,122; June 1; v. 275; p. 100.

Loftus, John, Albany, N. Y. Pump. No. 1,342,176; June 1; v. 275; p. 111.

Logan, Archie F. (See Logan, Lindsey H. and A. F.)

Logan, Lindsey H. and A. F., Spokane, Wash. Hitch. No. 1,341,918; June 1; v. 275; p. 60.

Lombardo, Charles, Waterford, N. J. Sash-lock. No. 1,344,048; June 22; v. 275; p. 660.

London Spinning Company. (See Lovett, Joseph, assignor.)

Long, Charles H., Cedar Rapids, Iowa. Pocket-guard. No. 1,343,371; June 15; v. 275; p. 461.

Long, Charles M., Keota, Iowa, and M. V. Long, Rock Island, Ill. Weeding attachment for cultivators. No. 1,343,058; June 8; v. 275; p. 337.

Long, Austin H. (See Storms, George W., assignor.)

Long, John T., San Diego, Calif. Clock. No. 1,344,913; June 29; v. 275; p. 893.

Long, Martin V. (See Long, Charles M. and M. V.)

Long, Ralph A. (See Given, G. C., McQuaid, and Long.)

Longacre, Frederick V. D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Electric welding apparatus. No. 1,344,415; June 22; v. 275; p. 731.

Lonkert, Edward T. (See Yennett, J., and Lonkert.)

Loomis, Evarts G., Newark, N. J. Device for inserting crystals in bezels and rings. No. 1,344,700; June 29; v. 275; p. 852.

Loose Wiles Biscuit Company. (See Shillito, James T., assignor.)

Lopata, John G., Berwyn, Ill. Window. No. 1,345,325; June 29; v. 275; p. 972.

Lorenz, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,344,304; June 22; v. 275; p. 709.

Lorenz, William R., Denver, Colo. Lock-nut. No. 1,344,544; June 22; v. 275; p. 757.

Lottero, Carmen O., Buenos Aires, Argentina. Proceeding for the production of paste destined for manufacture of paper, cardboard, and the like. No. 1,341,991; June 1; v. 275; p. 74.

Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame hinge. No. 1,341,754; June 1; v. 275; p. 28.

Louden Machinery Company, The. (See Louden, Walter A., assignor.)

Louden, Walter A., assignor to The Louden Machinery Company, Fairfield, Iowa. Trolley. No. 1,343,631; June 15; v. 275; p. 512.

Louden, William, Fairfield, Iowa. Device for bending metallic track-rails. No. 1,342,554; June 8; v. 275; p. 237.

Louden, William, Fairfield, Iowa. Pipe-coupling. No. 1,344,914; June 29; v. 275; p. 894.

Lough, Hector V., Hartford, Conn., assignor to Universal Fixture Corporation, New York, N. Y. Spacer for panels of display-fixtures. No. 1,344,239; June 22; v. 275; p. 696.

Louison, Alfred B., Rockford, Ill. Crutch. No. 1,342,506; June 8; v. 275; p. 227.

Loutit, Charles. (See Knutsen, John, assignor.)

Louvrier, François, Palmboeuf, France. Electrometallurgical furnace. No. 1,342,636; June 8; v. 275; p. 252.

Love, Archie F., and J. Nicoletti, assignors to Eastman Kodak Company, Rochester, N. Y. Press-guard. No. 1,343,178; June 8; v. 275; p. 360.

Love, Harry, Staten Island, N. Y. Meat-roaster. No. 1,344,915; June 29; v. 275; p. 894.

Lovejoy, Frank W., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 1,342,590; June 8; v. 275; p. 244.

Lovekin, Luther D., Ardmore, Pa. Securing bed-plates to sole-plates. No. 1,344,416; June 22; v. 275; p. 731.

Lovekin, Luther D., Ardmore, Pa. Expansible washer. No. 1,344,417; June 22; v. 275; p. 731.

Lovett, Joseph, assignor of one-half to London Spinning Company, Limited, Deptford, London, England. Apparatus employed in drawing and spinning hemp, flax, and other fibrous materials. No. 1,345,203; June 29; v. 275; p. 948.

Lowe, Leon P., San Francisco, Calif. Gas or vapor heater. (Reissue.) No. 14,903; June 29; v. 275; p. 975.

Lucke, Charles E., New York, N. Y. Producing heat. No. 1,344,049; June 22; v. 275; p. 660.

Ludlow Typograph Company. (See Brasted, Clair H., assignor.)

Ludolph, Geo. R. (See Troja, Louis F., assignor.) (Reissue.)

Ludwig, William, Bellaire, Ohio. Pipe-blister-removing device. No. 1,343,571; June 15; v. 275; p. 500.

Lukens, William L. (See Sullivan, F. A., and Lukens.)

Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,344,305; June 22; v. 275; p. 709.

Lundbom, Mattis, Orebro, Sweden. Stretcher, sick-bed, and the like. No. 1,344,088; June 22; v. 275; p. 667.

Lundell, Alben E., and E. H. Clark, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,342,823; June 8; v. 275; p. 291.

Lundén, Harald L. R. (See Thorssell, C. T., and Lundén.)

Lundell, Alben E., New York, N. Y., and F. A. Stearn, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,345,016; June 29; v. 275; p. 912.

Lundgreen, Robert G., Chicago, Ill. Crank-case reinforcement. No. 1,345,204; June 29; v. 275; p. 948.

Luoma, Matt, Astoria, Oreg. Angle-indicator. No. 1,342,835; June 1; v. 275; p. 141.

Lupton's, David, Sons Co. (See Levene, Albert H., assignor.)

Luse, William J., New York, N. Y. Automatic fire-alarm. No. 1,344,701; June 29; v. 275; p. 852.

Lussier, Henry, Salem, assignor to Draper Corporation, Hopedale, Mass. Stopping mechanism for looms. No. 1,342,555; June 8; v. 275; p. 237.

Lutz, Alvin A., Mount Jackson, Va. Belt key-holder. No. 1,341,811; June 1; v. 275; p. 39.

Lutz, William H., Philadelphia, Pa. Rug-rolling machine. No. 1,342,556; June 8; v. 275; p. 237.

Lux, Lulu C., Thompson Falls, Mont. Hen's nest. No. 1,345,205; June 29; v. 275; p. 949.

Lychyj, Iwan, Sault Ste. Marie, Ontario, Canada. Engine-driven air-compressor. No. 1,343,270; June 15; v. 275; p. 441.

Lynch, William J., Buffalo, N. Y. Dish-holding tray or basket. No. 1,341,717; June 1; v. 275; p. 20.

Lyrde, Francis G., Belvedere, England. Concrete-mold. No. 1,343,572; June 15; v. 275; p. 500.

Lyons, Arthur H. (See Bickhart, Franklin R., assignor.)

Lyons, Frank F., Stockton, Calif. Ditch-digging machine. No. 1,343,734; June 15; v. 275; p. 533.

Lytton, Culien L., Gastonia, N. C. Tool for attaching paper tubes to winders. No. 1,343,632; June 15; v. 275; p. 512.

McAdams, Victor W., Denver, Colo. Humidifying apparatus. No. 1,343,873; June 15; v. 275; p. 561.

McAllaster, George R., Rochester, N. Y. Folding bed. No. 1,344,450; June 22; v. 275; p. 738.

McAllister, William H., Linden, Pa. Caster. No. 1,344,418; June 22; v. 275; p. 732.

McArdle, Peter C., Chicago, Ill. Concrete-surface-finishing machine. No. 1,344,916; June 29; v. 275; p. 894.

McAssey, Rollin O., San Diego, Calif. Priming device for gasolene-engines. No. 1,344,805; June 29; v. 275; p. 873.

McAuliffe, John E. (See Gilpin, V. C., and McAuliffe.)

McBride, Jesse E., Highland Park, assignor to Palmer-Bee Company, Detroit, Mich. Apparatus for conveying automobile bodies and the like. No. 1,344,419; June 22; v. 275; p. 732.

McBride, Oscar C., Granite, Okla., assignor to W. H. Holtby, Mangum, Okla. Cotton-gin. No. 1,345,206; June 29; v. 275; p. 949.

McCan, David G., Elizabeth, N. J. Method of and apparatus for electrical communication. No. 1,344,275; June 22; v. 275; p. 703.

McCallum, Edgar, Boston, assignor of one-half to J. A. Sherman, Worcester, Mass. Holder. No. 1,342,853; June 8; v. 275; p. 296.

McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,344,917; June 29; v. 275; p. 894.

McCarroll, Edward W., Pittsburgh, Pa. Adjustable mirror attachment. No. 1,342,854; June 8; v. 275; p. 297.

McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivator. No. 1,344,138; June 22; v. 275; p. 677.

McCartney, Leslie C., Lincoln, Nebr. Hog-waterer. No. 1,341,919; June 1; v. 275; p. 60.

McCartney, Leslie C., Lincoln, Nebr. Hog-watering fountain. No. 1,341,920; June 1; v. 275; p. 60.

McCarty, Florence R., Erie, Pa. Mandrel for making inner tubes for pneumatic tires. No. 1,344,702; June 29; v. 275; p. 853.

McCauley, John, New York, N. Y. Folding crate. No. 1,342,750; June 8; v. 275; p. 275.

McCausland, William A., Pittsburgh, Pa. Well-drilling tool. No. 1,342,855; June 8; v. 275; p. 297.

McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Finished surface for articles of manufacture. No. 1,343,216; June 15; v. 275; p. 432.

McClelland, John, Philadelphia, Pa. Combined spark-timer and oil-pump. No. 1,344,953; June 29; v. 275; p. 900.

McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Door and the like. No. 1,342,751; June 8; v. 275; p. 275.

McClure, Silas, Beaver Dam, Wis. Corrosion-resisting ferrous alloy. No. 1,341,992; June 1; v. 275; p. 74.

McColl, Francis P., Ridgewood, N. J., and W. W. Willison, New York, N. Y., assignors to Thermokept Products Corporation, New York, N. Y. Preserving sensitized photographic surfaces and article. No. 1,344,240; June 22; v. 275; p. 696.

McConnell, Grover C. (See Routt, O. L., McConnell, and Glaze.)

McConway & Torley company, The. (See Milliken, Isaac H., assignor.)

McCord, John D., assignor to San Pablo Oil Mills, Limited, Manila, Philippine Islands. Copra-drying apparatus. No. 1,341,655; June 1; v. 275; p. 8.

McCorkle, William E., Oak Station, Pa. Nut-depositor for confectionery-machines. No. 1,343,924; June 22; v. 275; p. 636.

McCormack, Ira A., New York, N. Y. Lock. No. 1,343,271; June 15; v. 275; p. 441.

McCormick, Charles W., Pittsburgh, Pa. Shaft-coupling. No. 1,343,272; June 15; v. 275; p. 442.

McCormick, John E. (See Hale, D. E., and McCormick.)

McCoy, Charles W., Sprague, Wash. Apparatus and process for cooling vehicles. No. 1,342,123; June 1; v. 275; p. 100.

McCoy, Eugene, Staples, Minn. Package-carrier for automobiles. No. 1,342,557; June 8; v. 275; p. 238.

McCoy, Walter R. (See Palmer, Walter W., assignor.)

McCracken, John A., Rahway, N. J. Sewing-machine support. No. 1,342,686; June 8; v. 275; p. 262.

McCutchan, Harvey S., assignor to Kerosene Burning Carburetor Company, Detroit, Mich. Carbureter control. No. 1,342,966; June 8; v. 275; p. 318.

McCutchen, Charles G., assignor to The Highway Tractor Company, Indianapolis, Ind. Motor-truck. No. 1,342,752; June 8; v. 275; p. 276.

McDonald, Alexander, Chicago, Ill. Grain-shocking machine. No. 1,344,348; June 22; v. 275; p. 718.

McDonald, Francess E., Chisuncook, Me. Ticket-holder. No. 1,344,420; June 22; v. 275; p. 732.

McDonald, Frank M., Seattle, Wash. Aeronautic landing device. No. 1,342,221; June 1; v. 275; p. 120.

McDonald, Frank M., Seattle, Wash. Fender. No. 1,342,402; June 1; v. 275; p. 153.

McDorman, Paul, Niagara Falls, N. Y., assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,342,336; June 1; v. 275; p. 141.

McDowell, Albert, assignor to T. Bradley, Los Angeles, Calif. Wrench. No. 1,342,856; June 8; v. 275; p. 297.

McFarlane, Percy D., assignor of one-third to O. A. Readfield and one-third to D. J. McGrath, Minneapolis, Minn. Oscillating-pedestal support. No. 1,344,806; June 29; v. 275; p. 873.

McGann, William H., Minneapolis, Minn. Car-door. No. 1,343,925; June 22; v. 275; p. 636.

McGee, James R., Milwaukee, Wis. Automatic elevator-door. No. 1,343,328; June 15; v. 275; p. 452.

McGeorge, William C., assignor of one-half to R. T. Ash, San Francisco, Calif. Non-skid device. No. 1,342,753; June 8; v. 275; p. 276.

McGillivray, James, South Chicago, Ill. Valve device. No. 1,342,900; June 8; v. 275; p. 306.

McGinnis, William A., Detroit, Mich. Garment-hanger. No. 1,345,017; June 29; v. 275; p. 912.

McGoldrick, Timothy. (See Tiffany, Louis L., assignor.)

McGowan, William H., Vincennes, Ind. Tire. No. 1,341,656; June 1; v. 275; p. 8.

McGrath, Daniel J., *et al.* (See McFarlane, Percy D., assignor.)

McGregory, Fred H., Decatur, Ill. Dustless duster. No. 1,344,545; June 22; v. 275; p. 757.

McGuire, John J., Yonkers, N. Y. Convertible automobile-body. No. 1,344,546; June 22; v. 275; p. 757.

McHilton, Lee D. (See Vervoort, Jules F., assignor.)

McKee Glass Company. (See Smith, Maurice A., assignor.)

McKnight, Oscar W., assignor to The Brunt Tile and Porcelain Company, Columbus, Ohio. Bushing-forming machine. No. 1,342,053; June 1; v. 275; p. 86.

McLean, Robert W., Bridgewater, assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Saw-cylinder. No. 1,345,207; June 29; v. 275; p. 949.

McLean, True. (See Parmele, E. A., and McLean.)

McMahon, James P., Atlanta, Ga. Fuel-economizer. No. 1,342,337; June 1; v. 275; p. 141.

McManama, John W., Waltham, assignor of one-third to S. W. Simonds and one-third to F. A. Barbey, Cambridge, Mass. Street-railway rail. No. 1,343,001; June 8; v. 275; p. 326.

McMaster, Henry, Highland Park, assignor of one-half to J. W. Davis, Detroit, Mich. No. 1,342,967; June 8; v. 275; p. 319.

McMillan, Howard O., Minneapolis, Minn. Post-splicing clamp. No. 1,344,139; June 22; v. 275; p. 677.

McMillan, John L., Syracuse, N. Y. Loose-leaf device. No. 1,342,637; June 8; v. 275; p. 252.

McMillan, Uel S., San Francisco, Calif. Defiberizing redwood bark. No. 1,344,180; June 22; v. 275; p. 685.

McMonagle, Thomas, Bath, Me. Shaving-brush. No. 1,344,050; June 22; v. 275; p. 660.

McMurray, Samuel M., Smyrna, Tenn. Pigment-powder for making smear-proof impressions. No. 1,342,638; June 8; v. 275; p. 252.

McNamara, Raymond F., assignor to Maxwell Motor Company, Inc., Detroit, Mich. Towing connection for vehicles. No. 1,342,507; June 8; v. 275; p. 227.

McNeil, John, assignor to The John Douglas Company, Cincinnati, Ohio. Flushing-nozzle. No. 1,342,124; June 1; v. 275; p. 100.

McNicholas, Hiram, Connell, Wash. Cam-operated circuit-closer. No. 1,342,591; June 8; v. 275; p. 244.

McOmber, William H., East Chicago, Ind. Awning. No. 1,342,452; June 8; v. 275; p. 217.

McPheters, Selden G., Oldtown, Me. Automatic marking or stamping device. No. 1,343,633; June 15; v. 275; p. 512.

McQuaid, Howard S. (See Given, G. C., McQuaid, and Long.)

Macartney, Arthur C., Syracuse, N. Y., assignor to Pine Tree Milking Machine Company. Milking-machine. No. 1,344,140; June 22; v. 275; p. 677.

Macbeth Arc Lamp Co. Inc., The. (See Eachus, Iredell, assignor.)

Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, England. Manufacture of tires. No. 1,343,460; June 15; v. 275; p. 478.

Macbeth-Evans Glass Company. (See Evans, Howard S., assignor.)

MacBryde, Louis E., Newark, N. J., assignor to G. Snyder, Fostoria, Ohio. Relief-valve. No. 1,343,735; June 15; v. 275; p. 533.

MacDonald, Harry P., Montclair, N. J., assignor to The Snead & Co. Iron Works. Method of and apparatus for heat-treating metallic articles. No. 1,344,643; June 29; v. 275; p. 842.

MacDonald, Jack B., Oakland, Calif. Traction-boat. No. 1,345,326; June 29; v. 275; p. 972.

MacDonald, William T. (See Engelman, E. W., and MacDonald.)

MacDowall, John L., Perth Amboy, and W. K. Bassford, Metuchen, N. J. Safety device for oil heaters and lamps. No. 1,343,217; June 15; v. 275; p. 432.

Macfarland, Harry A., and A. J. Roth, assignors to The Mount Vernon Company—Silversmiths, Inc., Mount Vernon, N. Y. Bracket and holder for rear-vision mirrors. No. 1,345,018; June 29; v. 275; p. 912.

MacKersie, Arthur M., San Jacinto, Calif. Buckrake and stacker. No. 1,343,398; June 15; v. 275; p. 466.

Mackey, John B., Hop Bottom, Pa. Agricultural implement. No. 1,342,125; June 1; v. 275; p. 101.

Mackie, Alfred R., Lander, Wyo. Concentrator. No. 1,344,051; June 22; v. 275; p. 660.

Mackintosh, Edith M., *et al.* (See Mackintosh, Edward D., assignor.)

Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Driving electric centrifugal machines. No. 1,342,405; June 1; v. 275; p. 154.

MacMillan, William J. (See Sullivan, D. C., Hawkins, and MacMillan.)

Macnab, Joseph, and G. H. Smith, Bredbury, near Stockport, England. Interconnected clutch and gear-shift for lathes and other machine-tools. No. 1,342,126; June 1; v. 275; p. 101.

MacNichol, George P., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Glassware-forming mechanism. No. 1,343,179; June 8; v. 275; p. 360.

Macphail, W. M., *et al.* (See Coulter, Hugh, A., assignor.)

Madden, Murray M., Shiprock, N. Mex. Sun-dial and compass. No. 1,343,515; June 15; v. 275; p. 489.

Maddox, Robert D., U. S. Army. Drill. No. 1,343,180; June 8; v. 275; p. 360.

Madère, Ernest H., Hahnville, La. Hand-controlled rotary cutting implement. No. 1,342,294; June 1; v. 275; p. 133.

Madison, John O., Brooklyn, N. Y. Trussed building construction. No. 1,344,767; June 29; v. 275; p. 866.

Madsen, Viggo J., Fargo, N. D. Reinforced concrete wall structure. No. 1,343,926; June 22; v. 275; p. 636.

Madunicky, John. (See Krajnah, M., and Madunicky.)

Magidson, Frank, Uniontown, Pa. Spring-motor mechanism. No. 1,342,857; June 8; v. 275; p. 297.

Maier, Henry, Brooklyn, N. Y. Card appliance. No. 1,344,547; June 22; v. 275; p. 757.

Main, Fred E., Chicago, Ill., assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Controlling device. No. 1,342,338; June 1; v. 275; p. 141.

Maire, Frank L., *et al.* (See Grosjean, James E., assignor.)

Majewski, Wladyslaw, New York, N. Y. Rotary compression-machine. No. 1,345,208; June 29; v. 275; p. 949.

Major, William R., Coshocton, and F. H. Grove, assignors to The Banner Machine Company, Columbiana, Ohio. Machine for building tire casings and tubes. No. 1,343,399; June 15; v. 275; p. 466.

Malcolm, Thomas J., Okmulgee, Okla. Piano-bridle-strap fastener. No. 1,343,516; June 15; v. 275; p. 489.

Mallove, Morris, assignor of twenty-seven and one-half per cent to J. Greenberg, and twenty-seven and one-half per cent to P. Kieves, New York, N. Y. Basin-plug wrench. No. 1,342,025; June 1; v. 275; p. 81.

Malthaner, John F., Atlanta, Ga. Combined telephone and phonograph. No. 1,344,918; June 29; v. 275; p. 894.
Mandeville, Thomas G. (See Dunhill, A., and Mandeville.)
Manelich, John, Youngsville, Pa. Fence-panel. No. 1,342,453; June 8; v. 275; p. 217.
Mangum, Sam E. (See Franklin, I. A., and Mangum.)
Manhattan Rubber Mfg. Company, The. (See Repony, Daniel, assignor.)
Manker, Charles, Des Moines, Iowa. Oil-burner. No. 1,344,421; June 22; v. 275; p. 732.
Manker, Charles C., Oklahoma, Okla., assignor of one-half to M. J. Morley, Pittsburgh, Pa. Gas-radiator. No. 1,343,634; June 15; v. 275; p. 512.
Manker, Charles C., Oklahoma, Okla., assignor of one-half to M. J. Morley, Pittsburgh, Pa. Radiator. No. 1,344,422; June 22; v. 275; p. 732.
Manker, Charles C., Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated. Vaporizer for heavy oils. No. 1,343,635; June 15; v. 275; p. 513.
Manker, Charles C., Pittsburgh, Pa., assignor to Morley-Manker Company, Incorporated, Dover, Del. Vaporizer for heavy oils. No. 1,344,423; June 22; v. 275; p. 733.
Mankey, Vernon H., Aberdeen, S. D. Tool for use in removing and replacing tires. No. 1,342,295; June 1; v. 275; p. 134.
Mann, Advance R. (See Potts, T. C., and Mann.)
Mann, James H., Jr., Little Rock, assignor to Transit Vending Machine Company, Pine Bluff, Ark. Vending-machine. No. 1,341,921; June 1; v. 275; p. 60.
Manning, Henry E., New Haven, Conn. Window-shade fixture. No. 1,344,703; June 29; v. 275; p. 853.
Manson, Marsden, Berkeley, Calif. Demonstration-globe. No. 1,343,181; June 8; v. 275; p. 361.
Manufacturers Machine Products Co. (See Schoenborn, Gustav C., assignor.)
Marberg, Carl G., Chicago, Ill. Roof-gutter or eaves-trough. No. 1,343,461; June 15; v. 275; p. 478.
March, Charles M., Portland, Me., and C. L. Tidd, Gardner, Mass. Camera. No. 1,341,718; June 1; v. 275; p. 20.
Marcuse, Moses M., New York, N. Y. Reversible pouring-spout for cans. No. 1,342,639; June 8; v. 275; p. 252.
Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,343,218; June 15; v. 275; p. 432.
Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,343,219; June 15; v. 275; p. 432.
Marinsky, Davis, New York, N. Y. Shoe-sole protector. No. 1,343,329; June 15; v. 275; p. 452.
Markert, John P., Brooklyn, N. Y. Container structure. No. 1,343,002; June 8; v. 275; p. 326.
Markham-Mills, Herbert. Wentworthville, New South Wales, Australia. Inclinometer. No. 1,345,098; June 29; v. 275; p. 928.
Marley, Almeda, *et al.* (See Burch, Willie, assignor.)
Maron, August, Whittier, Calif. Gopher-trap. No. 1,344,807; June 29; v. 275; p. 873.
Marr, Alexander W., Canton, Ohio. Hydraulic jack. No. 1,344,919; June 29; v. 275; p. 894.
Marr, John W., Long Beach, Calif. Apparatus for smoking fish. No. 1,345,095; June 29; v. 275; p. 927.
Marr, Winfield S., Enid, Okla. Identification attachment for automobiles. No. 1,343,837; June 15; v. 275; p. 554.
Marsden, George H., New York, N. Y. Toy. No. 1,344,548; June 22; v. 275; p. 758.
Marsico, Gerard R., Brooklyn, N. Y. Clutch. No. 1,341,993; June 1; v. 275; p. 74.
Martel, Fred J. (See Wenner, F. J., and Martel.)
Martin, Charles A., Congress Heights, D. C. Cultivator-tooth. No. 1,345,209; June 29; v. 275; p. 949.
Martin, Edgar W., *et al.*, trustees. (See Goodwin, Charles, assignor.)
Martin, Edouard, assignor to Compagnie Belge Du Bi-Metal, Société Anonyme, Brussels, Belgium. Manufacture of wires and tubes of two metals. No. 1,341,812; June 1; v. 275; p. 39.
Martin, Geoffrey. (See Martin, Joseph and G.)
Martin, George C., Los Angeles, Calif. Concrete-pipe-making machine. No. 1,344,590; June 22; v. 275; p. 766.
Martin, George G., East St. Louis, Ill. Automobile-tire. No. 1,342,339; June 1; v. 275; p. 141.
Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,341,922; June 1; v. 275; p. 61.
Martin, Harry F., Utica, Kans. Carbon-removing tool. No. 1,344,549; June 22; v. 275; p. 758.
Martin, Harry F., Utica, Kans. Valve-face-cutting tool. No. 1,344,550; June 22; v. 275; p. 758.
Martin, Jacob, *et al.* (See Scholes, Edmond P., assignor.)
Martin, Joseph and G., Toronto, Ontario, Canada. Gas-tap-locking device. No. 1,344,704; June 29; v. 275; p. 853.
Martin, Lawrence C., *et al.*, trustees. (See Goodwin, Charles, assignor.)
Martin, Truman J., Allentown, Pa. Auto-door-antirattling device. No. 1,344,644; June 29; v. 275; p. 842.
Martin, William H. Flushing, Netherlands. Exhaust-silencer for internal-combustion engines. No. 1,342,340; June 1; v. 275; p. 142.
Martindale, Thomas B. (See Champion, John J., and Martindale.)
Martinez, Victorino, Habana, Cuba. Electric-lamp holder. No. 1,343,573; June 15; v. 275; p. 501.
Marx, Roland G., Palo Alto, and L. F. Fuller, San Francisco, assignors to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,344,052; June 22; v. 275; p. 660.
Maryland Toy Manufacturing Company. See Dorsk, Frank L., assignor.)
Mascart, Léon F., assignor to Société du Verre Triplex, Paris, France. Reinforced glass and making same. No. 1,342,267; June 1; v. 275; p. 129.
Mascart, Léon F., assignor to Société du Verre Triplex, Paris, France. Manufacture of reinforced glass. No. 1,342,268; June 1; v. 275; p. 129.
Maserang, John B., Belleville, Ill. Hatpin attachment. No. 1,341,858; June 1; v. 275; p. 48.
Maserang, John B., Belleville, Ill. Hatpin attachment. No. 1,343,736; June 15; v. 275; p. 533.
Masheck, Louis E., Canton, Ohio. Dusting and deodorizing machine. No. 1,344,551; June 22; v. 275; p. 758.
Masker, Frederick M., Plainfield, N. J. Fruit-jar tongs. No. 1,343,518; June 15; v. 275; p. 489.
Mason, Charles E., Detroit, Mich., assignor to G. Waldref, St. Paul, Minn. Shifter-shoe for clutches. No. 1,345,327; June 29; v. 275; p. 972.
Mason, Irving W., Aberdeen, Wash. Floor structure. No. 1,344,181; June 22; v. 275; p. 685.
Mason, Ralph B., Somerset, Pa. Agricultural implement. No. 1,344,552; June 22; v. 275; p. 758.
Mason, William B., and L. S. Ryan, Lamar, Mo. Bed-tray. No. 1,343,636; June 15; v. 275; p. 513.
Mason, William C., Albany, N. Y., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Rail-joint box. No. 1,344,808; June 29; v. 275; p. 874.
Massatsch, Cornelius, Berlin-Tempelhof, Germany, assignor to The Permutit Company, New York, N. Y. Manufacture of purifying materials. No. 1,343,927; June 22; v. 275; p. 636.
Massey Concrete Products Company. (See Hobson, John S., assignor.)
Mast, John C., assignor to F. X. Hooper Company, Inc., Glenarm, Md. Holding device for printing-plates. No. 1,343,220; June 15; v. 275; p. 433.
Mathis, Paul. (See Craun, W. H., and Mathis.)
Matloob, Thomas, Paterson, N. J. Shuttle. No. 1,344,553; June 22; v. 275; p. 759.
Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Wet mixer. No. 1,344,306; June 22; v. 275; p. 710.
Maxwell Motor Company. (See McNamara, Raymond F., assignor.)
May, Walter J., Chicago, Ill. Life-preserver. No. 1,343,928; June 22; v. 275; p. 636.
Mayer, John G., Milwaukee, Wis. Hay-carriage. No. 1,342,341; June 1; v. 275; p. 142.
Mayer, Thomas M., assignor to E. T. Curran, Brooklyn, N. Y. Gas-heated boiler. No. 1,342,342; June 1; v. 275; p. 142.
Maytag Company, The. (See Thompson, Herbert L., assignor.)
Maytag, Fred L., Newton, Iowa. Deflooder for internal-combustion engines. No. 1,342,558; June 8; v. 275; p. 238.
Measuregraph Co., The. (See Hosch, Walter E., assignor.)
Measuregraph Company, The. (See Christopher, Arthur B., assignor.)
Measuregraph Company, The. (See Hosch, Greene C., assignor.)
Measuregraph Company, The. (See Scott, Lewis L., assignor.) (Reissue.)
Mechanical Rubber Company, The. (See Hopkins, Arthur T., assignor.)
Mechanical Rubber Company, The. (See Kinsley, Richard F., assignor.)
Mecky, A., Company. (See Papini, Antonio, assignor.)
Medbery, Clinton A., San Antonio, Tex. Lock-washer. No. 1,342,559; June 8; v. 275; p. 238.
Medley, Granville E., assignor of one-fourth to M. Dennis, and one-fourth to M. Dennis, Hopkinsville, Ky. Speed-change gear. No. 1,342,920; June 8; v. 275; p. 309.
Meihuizen, Sijtse H., Veendam, Netherlands. Drying apparatus. No. 1,344,241; June 22; v. 275; p. 696.
Mellicke, Adolph H., Baring, Mo. Corn-binder attachment. No. 1,342,640; June 8; v. 275; p. 253.
Melanowski, Leo, assignor to The Citizens Savings and Trust Company, operating trustee, Cleveland, Ohio. Power-transmitting mechanism. No. 1,342,687; June 8; v. 275; p. 262.
Melanson, Philip P., Moncton, New Brunswick, Canada. Stove. No. 1,342,921; June 8; v. 275; p. 310.
Mellen, Grenville, Cranford, N. J. Method of and apparatus for casting hollow bars or tubes. No. 1,342,127; June 1; v. 275; p. 101.
Mellinger, Edward A., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange automatic switching system. No. 1,343,462; June 15; v. 275; p. 478.
Mellon, George H., Pittsburgh, Pa. Glass casket. No. 1,345,210; June 29; v. 275; p. 950.
Mellor, Stanley C. (See Shearer, John A., assignor.)
Mellor, Tom, Brandon, Manitoba, Canada. Blackboard. No. 1,344,920 June 29; v. 275; p. 894.
Mendelsohn, Felix. (See Henius, Max, assignor.)

Mengel, William R., Chicago, Ill. Stereopticon. No. 1,342,561; June 8; v. 275; p. 239.
Mengel, William R., assignor to Autopticon Company, Chicago, Ill. Stereopticon. No. 1,342,560; June 8; v. 275; p. 238.
Mentzer, Claude E., Des Moines, assignor of three sixteenths to H. H. Searle, one-eighth to F. W. Miller, one-eighth to J. F. Griffin, one-eighth to E. A. Lewis, and one-eighth to A. T. Wallace, Des Moines, and one-eighth to M. M. Head, Jefferson, Iowa. Lock device for gear-shift levers. No. 1,344,554; June 22; v. 275; p. 759.
Meredith, Thomas D., London, England. Clip for stopping leakage in damaged pipes. No. 1,343,463; June 15; v. 275; p. 478.
Merker Interchangeable Tooth Corporation. (See Merker, Melvin E., assignor.)
Merker, Melvin E., assignor to Merker Interchangeable Tooth Corporation, New York, N. Y. Artificial tooth. No. 1,341,813; June 1; v. 275; p. 40.
Merrick, Frank W., Boston, Mass. Thread-controlling devices for sewing-machines. No. 1,344,424; June 22; v. 275; p. 733.
Merrill, George E., Salem, Mass. Window-ventilator attachment. No. 1,342,222; June 1; v. 275; p. 120.
Merrill, William E. (See Hamilton, Thomas S., assignor.)
Merrill, William B. (See Somes, Walter F., assignor.)
Merritt, Orrin L., and W. P. Jones, Stockton, Calif. Steam-conserver for cannery cookers and exhausts. No. 1,344,809; June 29; v. 275; p. 874.
Mersman, Joseph, Ottawa, Ohio. Sound-amplifier. No. 1,344,307; June 22; v. 275; p. 710.
Messer, George F., Aberdeen, Wash. Dirigible headlight. No. 1,343,822; June 15; v. 275; p. 550.
Messerschmitt, Anton, Stolberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treating minerals containing potassium. No. 1,344,705; June 29; v. 275; p. 853.
Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Conveyer-feed control. No. 1,344,768; June 29; v. 275; p. 866.
Metcalf, Levi. (See Liles, William P., assignor.)
Metcalfe, James C. (See Metcalfe, James, J. C., and R. D.)
Metcalfe, James, J. C. Metcalfe, Marple, and R. D. Metcalfe, Romiley, England. Injector. No. 1,342,128; June 1; v. 275; p. 101.
Metcalfe, Richard D. (See Metcalfe, James, J. C., and R. D.)
Meteor Motor Company. (See Pflaume, Julius R., assignor.)
Meth, Max, assignor to The Lancaster Lens Company, Lancaster, Ohio. Manufacturing ruby-glass. No. 1,344,141; June 22; v. 275; p. 677.
Metropolitan Sewing Machine Corporation. (See Weis, Albert H., assignor.)
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
Metten, John F., and J. C. Shaw, Philadelphia, Pa. Marine steam-turbine arrangement. No. 1,342,177; June 1; v. 275; p. 111.
Meyer, August J., Chicago, Ill. Tire. No. 1,342,562; June 8; v. 275; p. 239.
Meyer, Charles F., Bridgeport, Conn. Spark-plug. No. 1,344,954; June 29; v. 275; p. 900.
Meyer, Erwin E. A. G., Detroit, Mich., assignor to Morgan & Wright. Treating fabric. No. 1,344,645; June 29; v. 275; p. 842.
Meyer, Ferdinand Moritz, Saarbrucken, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydraulic ingredient and making same. No. 1,343,920; June 22; v. 275; p. 636.
Meyer, George L., Milwaukee, Wis. Gas-engine. No. 1,342,922; June 8; v. 275; p. 310.
Meyer, George T., *et al.* (See Milligan, Rockwell M., assignor.)
Meyer, Henry H., Red Wing, Minn. Air-suction regulator. No. 1,344,921; June 29; v. 275; p. 895.
Meyer, John E., Shepherd, Mich. Farm-tractor. No. 1,343,464; June 15; v. 275; p. 479.
Meyer, William, Rosedale, Kans. Vending-machine. No. 1,344,142; June 22; v. 275; p. 677.
Meyer, *née* Wolf, Lina, and R. Schiff, assignors to the Firm H. Hirschfeld Sen., Frankfort-on-the Main, Germany. Cooking apparatus. No. 1,341,960; June 1; v. 275; p. 68.
Meyercord, George R., Chicago, Ill. Composite booth, counter, and the like. No. 1,343,637; June 15; v. 275; p. 513.
Michalovsky, Kapiton, Akron, Ohio. Inflatable garment. No. 1,342,054; June 1; v. 275; p. 86.
Micheau, Edward L., Baltimore, Md. Drawing-protractor. No. 1,342,129; June 1; v. 275; p. 102.
Michigan Chemical Company. (See Molony, Stuart B., assignor.)
Mickelson, Algot E., Devlin, Ontario, Canada. Horseshoe. No. 1,343,874; June 15; v. 275; p. 561.
Mickelson, George A., Vancouver, British Columbia, Canada. Open-face gas-mask. No. 1,344,349; June 22; v. 275; p. 718.
Midgett, Penelton G., assignor of one-half to R. Thomas, Dallas, Tex. Drill-bit. No. 1,344,425; June 22; v. 275; p. 733.
Midgley, John G., Salt Lake City, Utah. Mechanical stoker. No. 1,341,923; June 1; v. 275; p. 61.
Miehle Printing Press and Manufacturing Company, The. (See Dudley, Edward F., assignor.)
Mieloch, Andrew and A. A., St. Paul, Minn. Spreader for tire-casings. No. 1,342,565; June 8; v. 275; p. 239.
Mieloch, Anton A. (See Mieloch, Andrew and A. A.)
Mietz, August, Corporation. (See Muller, Charles A., assignor.)
Mildren, Lory J., assignor of one-half to J. B. Hinkle, Ponca City, Okla. Oil-well appliance. No. 1,344,922; June 29; v. 275; p. 895.
Miles, James C., Cleveland, Ohio. Heating and ventilating apparatus. No. 1,343,330; June 15; v. 275; p. 453.
Miles, Leonard, Coventry, England. Feeding and measuring device for rolls of sensitized strips employed in photographic cameras. No. 1,344,207; June 22; v. 275; p. 690.
Miles, William H., Cleveland, Ohio. Newspaper-vending machine. No. 1,342,858; June 8; v. 275; p. 298.
Millard, William, assignor to Millard's Gum Vending Corporation, New York, N. Y. Coin-controlled mechanism. No. 1,344,769; June 29; v. 275; p. 866.
Millard's Gum Vending Corporation. (See Millard, William, assignor.)
Miller, Arthur J., Warren, Pa. Camera. No. 1,344,182; June 22; v. 275; p. 685.
Miller, Emil A., assignor of one-half to C. L. Koerner, Oakland, Calif. Rotary engine. No. 1,343,331; June 15; v. 275; p. 453.
Miller, Emma T., San Antonio, Tex. Geometric figure. No. 1,344,053; June 22; v. 275; p. 661.
Miller, Frank P., Meadville, Pa. Cutter-head. No. 1,342,055; June 1; v. 275; p. 87.
Miller, Fred, Braddock, Pa. Lifting-jack. No. 1,342,057; June 1; v. 275; p. 87.
Miller, Fred C., *et al.* (See Jonsson, Jonas, assignor.)
Miller, Fred W., *et al.* (See Mentzer, Claude E., assignor.)
Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,341,657; June 1; v. 275; p. 8.
Miller, George E., Etna, Pa. Tap. No. 1,342,754; June 8; v. 275; p. 276.
Miller, Henry, assignor to A. O. Smith Corporation, Milwaukee, Wis. Feeding and delivering mechanism for sheet-metal-working presses. No. 1,344,810; June 29; v. 275; p. 874.
Miller, Herbert F., Jr. (See Downs, G. F., and Miller.)
Miller, James, Derby, England, assignor of one-half to G. Fletcher & Company, Limited. Trash-turner. No. 1,343,059; June 8; v. 275; p. 337.
Miller, Lorin O., Dunkirk, Ind., assignor of two-thirds to M. M. Moran and J. R. Fleming, Portland, Ind. Mixing device for internal-combustion engines. No. 1,344,706; June 29; v. 275; p. 853.
Miller, Melville A., assignor to Brun-Mill Company, Pittsfield, Ill. Combined cigarette and vanity case. No. 1,342,178; June 1; v. 275; p. 111.
Miller, Ralph, and W. E. Turney, San Francisco, Calif. Ventilating window-section and screen. No. 1,344,054; June 22; v. 275; p. 661.
Miller, Raymond, Rochester, N. Y. Automatic pump-priming device. No. 1,343,574; June 15; v. 275; p. 501.
Miller Rubber Company. (See Whisler, Chauncy P., assignor.)
Miller, William, assignor to Amesbury Brass and Foundry Company, Amesbury, Mass. Door-handle for automobiles. No. 1,342,058; June 1; v. 275; p. 87.
Miller, William J., Swissvale borough, Pa. Pressing-plunger mechanism for glass-machines. No. 1,342,056; June 1; v. 275; p. 87.
Milligan, Rockwell M., assignor of one-half to G. T. Meyer and one-fourth to F. W. Linnemeyer, St. Louis, Mo. Hinge for desk-tops. No. 1,343,332; June 15; v. 275; p. 453.
Milliken Brothers Mfg. Co. (See Jennings, John E., assignor.)
Milliken, Humphreys, Tenafly, N. J., assignor of one-half to J. B. Taylor, New York, N. Y. Dust-separator. No. 1,344,055; June 22; v. 275; p. 661.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,183; June 22; v. 275; p. 685.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,184; June 22; v. 275; p. 685.
Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Wear-plate for car-couplings. No. 1,344,185; June 22; v. 275; p. 685.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,343,221; June 15; v. 275; p. 433.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,343,222; June 15; v. 275; p. 433.
Mills, H. S. (See Sandell, Henry K., assignor.)
Mills, Stanley W. (See Schaaf, A. E., and Mills.)
Millward, John R. (See Millward, Walter H. and J. R.)
Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Starter for internal-combustion engines. No. 1,341,658; June 1; v. 275; p. 9.

Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starter for internal-combustion engines. No. 1,341,659; June 1; v. 275; p. 9.

Millward, John R., Newark, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starter for internal-combustion engines. No. 1,341,660; June 1; v. 275; p. 9.

Millward, Walter H. and J. R., Newark, N. J. Bicycle. No. 1,342,688; June 8; v. 275; p. 263.

Milliyard, Bert H., Cheyenne, Wyo. Laundry-stick. No. 1,345,019; June 29; v. 275; p. 913.

Milnes, John C., Chicago, Ill. Screen-marker. No. 1,345,211; June 29; v. 275; p. 950.

Milsted, Edmund G. (See Lee, A. E., and Milsted.)

Miner, William H. (See Dath, Charles E., assignor.)

Miner, William H. (See O'Connor, John F., assignor.)

Minerals Separation North American Corporation. (See Dolbear, Samuel H., assignor.)

Minert, Theodore R., Milwaukee, Wis. Pump-operating mechanism. No. 1,344,056; June 22; v. 275; p. 661.

Minton, William E., Kansas City, Mo. Well-screen. No. 1,341,755; June 1; v. 275; p. 28.

Mitchell, John A., Newark, assignor of one-half to A. D. T. Libby, East Orange, N. J. Heel-attaching means. No. 1,343,638; June 15; v. 275; p. 513.

Mix, Robert S., Cohocton, N. Y. Harrow-shoe. No. 1,342,454; June 8; v. 275; p. 217.

Moa Iron & Development Corporation. (See Hayward, C. R., Stillman, and Schleicher, assignors.)

Mock, Hugo, New York, N. Y. Strainer. No. 1,343,679; June 15; v. 275; p. 522.

Modrzejeski, Joseph, Milwaukee, Wis. Baby-carriage. No. 1,344,811; June 29; v. 275; p. 874.

Moe, Jacob, Trondhjem, Norway. Rotating grate for automatic stoking. No. 1,342,026; June 1; v. 275; p. 81.

Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Elastic or expansible paving-joint. (Reissue.) No. 14,871; June 1; v. 275; p. 156.

Moen, Hans J. (See Hyatt, J. E., and Moen.)

Mogni, Charles M., New York, N. Y. Gas-heater. No. 1,344,555; June 22; v. 275; p. 759.

Moler, Harvey T., Philadelphia, Pa. Fastening device for ear ornaments. No. 1,344,556; June 22; v. 275; p. 759.

Moline, Emil E., Sioux City, Iowa. Floor-waxing device. No. 1,343,223; June 15; v. 275; p. 433.

Molony, Stuart B., Wellesley Hills, Mass., assignor to Michigan Chemical Company. Rubber vulcanization and product thereof. No. 1,343,224; June 15; v. 275; p. 433.

Monahan, James F., Newark, assignor to Edison Storage Battery Company, West Orange, N. J. Electric safety-lantern. No. 1,345,212; June 29; v. 275; p. 950.

Monihan, Daniel J., assignor to Griswold Manufacturing Company, Erie, Pa. Oven. No. 1,342,455; June 8; v. 275; p. 218.

Montarull, Giuseppe V., Rome, Italy. Construction of ships. No. 1,345,213; June 29; v. 275; p. 950.

Montgomery, Julian E., Wheeling, W. Va. Friction-drive for the top rolls of rolling-mills. No. 1,342,343; June 1; v. 275; p. 142.

Montgomery, Leon F., *et al.* (See Grosjean, James E., assignor.)

Montine, Joseph F., Chicago, Ill. Support for elevated cable-tracks. No. 1,344,923; June 29; v. 275; p. 893.

Montine, Joseph F., Chicago, Ill. Carrier-truck for overhead transportation systems. No. 1,344,924; June 29; v. 275; p. 895.

Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. No. 1,341,859; June 1; v. 275; p. 49.

Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)

Moolten, Raphael J., New York, N. Y. Sanitary mouth and lip protector. No. 1,342,968; June 8; v. 275; p. 319.

Moore, Albert W. (See Bowersox, Joseph W., assignor.)

Moore, Alfred M., assignor to Moore & Company, Malden, Mass. Hardening and annealing furnace. No. 1,341,661; June 1; v. 275; p. 9.

Moore, Ammon W., McKeesport, Pa. Fire-extinguisher and gas-well capper. No. 1,345,214; June 29; v. 275; p. 950.

Moore, Benjamin, & Co. (See Bryce, Clarence H., assignor.)

Moore, Byron L., Buffalo, N. Y. Key-switch. No. 1,341,719; June 1; v. 275; p. 21.

Moore, Charles A., St. Paul, Minn. Air-circulating apparatus for cars. No. 1,344,057; June 22; v. 275; p. 661.

Moore & Company. (See Moore, Alfred M., assignor.)

Moore, David D., Enfield, Va. Toy. No. 1,342,344; June 1; v. 275; p. 143.

Moore, David P., and S. B. Pack, Washington, D. C., assignors to Packmore Manufacturing Company. Portable suction cleaning-machine. No. 1,342,345; June 1; v. 275; p. 143.

Moore, Frank C., Canton, Ohio. Preventing the inner walls of rubber hose from sticking during manufacture. No. 1,344,143; June 22; v. 275; p. 677.

Moore, George, Joplin, Mo. Liquid-distributing apparatus. No. 1,342,859; June 8; v. 275; p. 298.

Moore, Hubert. (See Craig, Edward J., assignor.)

Moore, J. W., Machine Company, The. (See Currier, Arthur L., assignor.)

Moore, Jesse J., Philadelphia, Pa. Automobile-curtain. 1,343,148; June 8; v. 275; p. 354.

Moore, Mark E., Minneapolis, assignor to Moore Tool Company, Fairmont, Minn. Expanding mandrel. No. 1,343,273; June 15; v. 275; p. 442.

Moore Tool Company. (See Moore, Mark E., assignor.)

Moore, William E., Pittsburgh, Pa. Furnace-charging device. No. 1,343,465; June 15; v. 275; p. 479.

Moore, William J. (See Kline, William, assignor.)

Moran, Mark M., *et al.* (See Miller, Lorin O., assignor.)

More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Clamp. No. 1,342,563; June 8; v. 275; p. 239.

Moreton, Frank, Wilmington, Del. Magnetic valve. No. 1,342,641; June 8; v. 275; p. 253.

Morgan, Henry W., Johnson City, N. Y. Garden-cultivator. No. 1,342,642; June 8; v. 275; p. 253.

Morgan & Wright. (See Cederstrom, Bror E., assignor.)

Morgan & Wright. (See Jury, Alfred E., assignor.)

Morgan & Wright. (See Meyer, Erwin E. A. G., assignor.)

Morgan & Wright. (See Neal, De Courcy, assignor.)

Morgen, Simon, Brooklyn, and S. Hoffman, New York, N. Y. Sewing-machine gage. No. 1,343,149; June 8; v. 275; p. 355.

Morine, John P., Trentham, New Zealand. Detachable handle for teacups, saucepans, and the like. No. 1,341,756; June 1; v. 275; p. 29.

Mork, Jack, Chicago, Ill. Shoe-polisher. No. 1,343,466; June 15; v. 275; p. 479.

Morley, Frederic A., Brooklyn, N. Y. Mouth-flute. No. 1,341,860; June 1; v. 275; p. 49.

Morley-Manker Company. (See Manker, Charles C., assignor.)

Morley, Murray J. (See Manker, Charles C., assignor.)

Morris, George S., Jackson, Mich. Labeling-machine. No. 1,344,426; June 22; v. 275; p. 733.

Morris, Lute P. (See Thompson, R. A., and Morris.)

Morris, Urban S., Tulsa, Okla. Pipe-bending mechanism. No. 1,342,564; June 8; v. 275; p. 239.

Morrisette, Charles A. (See El Venn, John A., assignor.)

Morrison, Ralph W., assignor to Cathedral Phonograph Company, Omaha, Nebr. Phonograph attachment. No. 1,344,186; June 22; v. 275; p. 686.

Morse, Alfred B., South Easton, Mass. Universal joint. No. 1,344,707; June 29; v. 275; p. 853.

Morse-Andrews Company. (See Morse, William J., assignor.)

Morse, Harry W., assignor to American Trona Corporation, Trona, Calif. Separation of constituents of brines. No. 1,343,400; June 15; v. 275; p. 466.

Morse, Harry W., assignor to American Trona Corporation, Trona, Calif. Separating potassium compound from brines. No. 1,343,401; June 15; v. 275; p. 467.

Morse Instrument Company. (See Morse, Robert V., assignor.)

Morse, Mark S., Huntington Park, assignor to Railway Specialties Company, Los Angeles, Calif. Electric signaling. No. 1,344,308; June 22; v. 275; p. 710.

Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Electric sight-controlling mechanism for anti-aircraft guns. No. 1,343,003; June 8; v. 275; p. 326.

Morse, William J., assignor to Morse-Andrews Company, Attleboro, Mass. Belt-buckle. No. 1,344,955; June 29; v. 275; p. 901.

Mortimer, William, and F. Potten, Dover, England. Apparatus for facilitating the landing of aircraft. No. 1,342,860; June 8; v. 275; p. 298.

Morton, Walter S., Harrisburg, Pa. Axle-housing and fifth-wheel construction for motor-trucks. No. 1,342,861; June 8; v. 275; p. 298.

Mosby, William A., Cotton Plant, Ark. Target. No. 1,341,814; June 1; v. 275; p. 40.

Moscini, John, New York, N. Y., assignor to W. H. Coe Manufacturing Company, Providence, R. I. Metal-leaf-applying device. No. 1,344,427; June 22; v. 275; p. 733.

Moser, Lester L. (See Moser, Russell and L. L.)

Moser, Russell and L. L., Homestead, Fla. Motor-plow. No. 1,344,708; June 29; v. 275; p. 853.

Mosler, A. R., & Company. (See Mosler, Arthur R., assignor.)

Mosler, Arthur R., New York, assignor to A. R. Mosler & Company, Mount Vernon, N. Y. Spark-plug. No. 1,344,956; June 29; v. 275; p. 901.

Mosler Lock Company, The. (See Benham, William T., assignor.)

Mossay, Paul A. H., and H. C. E. Jacoby, London, England. Cooling arrangement for dynamo-electric machines. No. 1,342,179; June 1; v. 275; p. 111.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,815; June 1; v. 275; p. 40.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,816; June 1; v. 275; p. 40.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,341,817; June 1; v. 275; p. 40.

Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)

Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Steering device for vehicles. No. 1,343,225; June 15; v. 275, p. 433.

Motte, Charles M., assignor to Mrs. Delqué, born M. A. Habans, and C. M. Motte, Paris, France. Combined bonnet and car-body for automobile-vehicles. No. 1,343,519; June 15; v. 275; p. 490.

Motteau, Autime, Buenos Aires, Argentina. Window. No. 1,343,520; June 15; v. 275; p. 490.

Mount, Madison H., Los Angeles, Calif. Foot massager and strengthener. No. 1,345,096; June 29; v. 275; p. 927.

Mount Vernon Company—Silversmiths, Inc., The. (See Macfarland, H. A., and Roth, assignors.)

Mousette, Alfred A., Leicester, Mass. Adjustable shade-roller. No. 1,345,097; June 29; v. 275; p. 927.

Mowry, Ray M., Los Angeles, Calif. Length-indicator for baling-machines and the like. No. 1,342,391; June 1; v. 275; p. 151.

Muck, John, Milwaukee, Wis. Clothespin. No. 1,342,755; June 8; v. 275; p. 276.

Mueller, Fred W., California, Mo. Incubator. No. 1,344,591; June 22; v. 275; p. 766.

Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)

Mueller, Rudolph J. J., assignor to Universal Oxygen Company, Sheboygan, Wis. Cheese-hoop. No. 1,343,402; June 15; v. 275; p. 467.

Muha, Andrew, Cleveland, Ohio. Cleansing and polishing composition. No. 1,342,862; June 8; v. 275; p. 298.

Muller, Charles A., Islip, assignor to August Mietz Corporation, New York, N. Y. Controlling mechanism for internal-combustion engines. No. 1,343,980; June 22; v. 275; p. 646.

Müller, Jakob, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Starting-valve for combustion-engines. No. 1,343,226; June 15; v. 275; p. 434.

Muller, Otto A., Duncan, Okla. Carbon-scraper for piston-ring grooves. No. 1,345,215; June 29; v. 275; p. 951.

Muller, William F., assignor to Perfect Re-Fillable Fuse, Inc., Brooklyn, N. Y. Refillable electric fuse. No. 1,341,662; June 1; v. 275; p. 9.

Mullin, W. A. (See Creason, Frank, assignor.)

Mulvihill, Daniel C., Hannibal, Mo. Lifting-jack. No. 1,343,274; June 15; v. 275; p. 442.

Mulvihill, Daniel C., Hannibal, Mo. Lifting-jack. No. 1,343,275; June 15; v. 275; p. 442.

Mumford Molding Machine Company. (See Gates, Philetus W., assignor.)

Munch, O. W. (See Gibbs, Alonzo L., assignor.)

Munnell, Alton, F. (See La Tour, L., and Munnell.)

Munter, Charles, New York, N. Y. Body-stabilizer. No. 1,342,566; June 8; v. 275; p. 239.

Munter, Charles, New York, N. Y. Belt-operated lacing. No. 1,344,709; June 29; v. 275; p. 854.

Murphy Engineering Company. (See Murphy, Peter W., assignor.)

Murphy, Harry, Muncie, Ind. Liquid-nozzle and sprayer. No. 1,342,027; June 1; v. 275; p. 81.

Murphy, Hugh D., Fort Wayne, Ind. Electrical signaling system. No. 1,343,467; June 15; v. 275; p. 479.

Murphy, John T. and P. P., Chicopee Falls, Mass. Means for cutting. No. 1,343,639; June 15; v. 275; p. 514.

Murphy, Patrick P. (See Murphy, John T. and P. P.)

Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Wear take-up for slides. No. 1,344,592; June 22; v. 275; p. 767.

Murphy, Walter P. (See Sisson, Vinton E., assignor.)

Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,343,785; June 15; v. 275; p. 543.

Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,343,786; June 15; v. 275; p. 543.

Murray, Frank M., Cadyville, N. Y. Wrench. No. 1,342,643; June 8; v. 275; p. 253.

Murray, James G. (See Sawders, F. P., and Murray.)

Murray & Tregurtha Company. (See Funderburk, Otis C., assignor.)

Murrin, John, and E. J. Brewster, Chicago, Ill. Adjustable journal-bearing. No. 1,342,059; June 1; v. 275; p. 87.

Murtha, Walter B., New York, N. Y. Combined coat and hat hanger. No. 1,342,346; June 1; v. 275; p. 143.

Musser, Samuel G., Los Angeles, Calif. Amalgamator. No. 1,342,567; June 8; v. 275; p. 240.

Myatt, William J., Birmingham, England. Turnbuckle and the like. No. 1,342,130; June 1; v. 275; p. 102.

Mycock, William, Manchester, England. Bearing for the cylinders of drying-machines. No. 1,342,131; June 1; v. 275; p. 102.

Myers, Alfred A., *et al.* (See Keeley, Charles A., assignor.)

Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Gramophone-drive. No. 1,343,640; June 15; v. 275; p. 514.

Myers Phonograph Corporation. (See Myers, Frederick, assignor.)

Myers, William R., Hampton, Va. Fire-bucket. No. 1,344,557; June 22; v. 275; p. 759.

Naamlooze Vennootschap Wedùwe J. Ahrend & Zoons, Industrie en Handelsvereeniging. (See Koechlin, Emile R., assignor.)

Naber, Moses H., Chicago, Ill. Shock-absorber. No. 1,344,593; June 22; v. 275; p. 767.

Nagel, Henry W., Chicago, Ill., assignor of one-half to A. C. Ronda. Loading device. No. 1,342,456; June 8; v. 275; p. 218.

Nakamura, Goken, Kobe, Japan. Amusement device. No. 1,342,223; June 1; v. 275; p. 120.

Narbett, Walter M., Richmond, Calif. Necktie-clasp. No. 1,345,216; June 29; v. 275; p. 951.

Narrow Fabric Company, The. (See Plumb, Frederic W., assignor.)

Nash, Archie L., East Spencer, N. C. Windshield-shade. No. 1,342,347; June 1; v. 275; p. 143.

Nash, Clarence A., Milwaukee, Wis. Manufacture of phenolic condensation products. No. 1,343,575; June 15; v. 275; p. 501.

Nash, John M., Wauwatosa, Wis. Wood sanding or polishing machine. No. 1,343,981; June 22; v. 275; p. 646.

Näslund, Jonas, Rimbo, Sweden. Combination-lock. No. 1,345,020; June 29; v. 275; p. 913.

National Bank Book Company. (See Schade, John, assignor.)

National Biscuit Company. (See Davidson, Frank B., assignor.)

National Brake & Electric Company. (See Aikman, Burton S., assignor.)

National Carbon Company Inc. (See Chapin, Harold C., assignor.)

National Cash Register Company, The. (See Martin, Haakon A., assignor.)

National Electrical Supply Company. (See Johnson, Albert H., assignor.)

National Gauge & Equipment Company. (See Axen, John L., assignor.)

National Malleable Castings Company, The. (See Spence, Hubert L., assignor.)

National Paper Can Company. (See Hulbert, Edwin F., assignor.)

National Phone Company, Inc. (See Weil, Maximilian, assignor.)

National Refrigerator Car Company. (See Baxter, William M., assignor.)

National Sulphur Company. (See Free, Edward E., assignor.)

National Supply Company, The. (See Wright, Clyde S., assignor.)

Naudet, Leon, Chelles, France. Extracting sugar. No. 1,343,737; June 15; v. 275; p. 533.

Naujoks, Frederick C., Los Angeles, Calif. Electric switch. No. 1,344,925; June 29; v. 275; p. 896.

Neal, De Courcy, Detroit, Mich., assignor to Morgan & Wright. Tire-casing. No. 1,341,663; June 1; v. 275; p. 10.

Neederman, Stephen A., Los Angeles, Calif. Toy. No. 1,345,328; June 29; v. 275; p. 973.

Needs, Augustus G., Perkiomenville, Pa. Bridge-reinforcement. No. 1,344,646; June 29; v. 275; p. 842.

Neely, Joseph A., McRoberts, Ky. Attaching device for trolley-hangers. No. 1,343,930; June 22; v. 275; p. 637.

Nees, Ludwig B. (See Cressler, A. B., Nees, and Baumbach.)

Neff, Floyd M., and W. B. Runner, Prattsburg, N. Y. Bagholder. No. 1,342,348; June 1; v. 275; p. 143.

Neff, George W. B., Sandy, Utah. Leak-stopping composition. No. 1,343,150; June 8; v. 275; p. 355.

Neft, Max, Seattle, Wash. Steel for guitars. No. 1,342,718; June 8; v. 275; p. 269.

Nelkirk, John O., Lombard, Ill., assignor to Rodger Ballast Car Company. Drop-door for railway-cars. No. 1,344,208; June 22; v. 275; p. 690.

Neil, Ewell, Nashville, Tenn. Syringe. No. 1,343,787; June 15; v. 275; p. 543.

Neil, Winfield S., Minot, N. D. Valve-handle. No. 1,343,086; June 8; v. 275; p. 342.

Nellson, Thomas, London, England. Valve and deflector of ventilating apparatus. No. 1,343,576; June 15; v. 275; p. 501.

Nelson, Alexander. (See Avery, B. B., and Nelson, assignor.)

Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Former for manufacturing sanitary drinking-cups. No. 1,341,833; June 1; v. 275; p. 43.

Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Making drinking-cups. No. 1,341,834; June 1; v. 275; p. 44.

Nelson, Alexander, Newark, N. J., and B. B. Avery, New York, N. Y., assignors, by mesne assignments, to Germproof Cup Corporation, New York, N. Y. Machine for manufacturing and vending sanitary drinking-cups. No. 1,341,836; June 1; v. 275; p. 44.

Nelson, Elijah M., Villisca, Iowa. Tire-chain fastener. No. 1,341,924; June 1; v. 275; p. 61.

Nelson, Martin J., Rye, N. Y. Egg-timer. No. 1,343,738; June 15; v. 275; p. 533.

Nelson, Nels. (See Williams, Charlie, assignor.)

Nelson, Nels P. (See Newdall, A., Nelson, and Newdall.)

Nelson, Olaf A., San Francisco, Calif. Cabinet. No. 1,341,994; June 1; v. 275; p. 74.

Nelson, Thomas, & Sons. (See Baldauf, Charles L., assignor.)

Neptune Sea Food Company. (See Koehl, George J., assignor.)
Nesdall, John T., Brooklyn, N. Y. Stair structure. No. 1,343,739; June 15; v. 275; p. 534.
Netcott, George A. (See Jochumsen, John, and Netcott.)
Neumann, R. Hardware Co., The. (See Lotz, William A., assignor.)
New Departure Manufacturing Company, The. (See Gearing, Charles M., assignor.)
New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)
New Jersey Foundry and Machine Company. (See Heacock, E. N., and Smith, assignors.)
New Jersey Patent Company. (See Aylesworth, J. W., and Aiken, assignors.)
New Jersey Patent Company. (See Edison, Thomas A., assignor.)
New Jersey Patent Company. (See Main, Fred F., assignor.)
New York Belting & Packing Company. (See Gilson, Henry R., assignor.)
New York Belting and Packing Company. (See Ostromislensky, Iwan, assignor.)
Newdall, Axel, Minneapolis, N. P. Nelson, and M. Newdall, Springfield, Minn. Sod-disintegrator and quack-grass erradicator. No. 1,341,861; June 1; v. 275; p. 49.
Newdall, Magnus. (See Newdall, A., Nelson, and Newdall.)
Newell, George T., Jr., Beverly, N. J. Electrical preheating attachment for automobile intake-manifolds. No. 1,344,242; June 22; v. 275; p. 696.
Newell, James E. (See Ingram, Sleeper T., assignor.)
Newsom, John W., Breckenridge, Tex. Door stop and holder. No. 1,344,647; June 29; v. 275; p. 842.
Newton, Frank J., assignor of one-half to E. E. Wallace, Sandwich, Ill. Shield for headlights. No. 1,344,594; June 22; v. 275; p. 767.
Newton, Richard T., New York, N. Y. Bumper. No. 1,343,740; June 15; v. 275; p. 534.
Newton, Richard T., New York, N. Y. Automobile-buffer. No. 1,343,741; June 15; v. 275; p. 534.
Newton, Robert W., Providence, R. I. Automatic sprinkler. No. 1,345,217; June 29; v. 275; p. 951.
Nicholas, Edward, Kokomo, Ind. Auto block-signal. No. 1,345,218; June 29; v. 275; p. 951.
Nicholas, William F., Chicago, Ill. Etching-machine. No. 1,345,219; June 29; v. 275; p. 951.
Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,342,644; June 8; v. 275; p. 253.
Nicoletti, John. (See Love, A. F., and Nicoletti.)
Niehuus, Richard H., *et al.* (See Shearer, John A., assignor.)
Nielsen, Albert E., Chicago, Ill. Treating waste gases or vapors from soda-cellulose factories. No. 1,345,220; June 29; v. 275; p. 951.
Nielsen, Reidar, and V. M. Goldschmidt, assignors to Titan Co. A/S., Christiania, Norway. Producing pigments. No. 1,343,468; June 15; v. 275; p. 479.
Nielsen, Reidar, and V. M. Goldschmidt, assignors, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Titanium products and producing same from precipitated titanium hydrates. No. 1,343,469; June 15; v. 275; p. 479.
Nieukirk, John W., Gary, Ind. Aeroplane-shell. No. 1,344,558; June 22; v. 275; p. 760.
Niewaleski, Viktor, Brooklyn, N. Y. Game. No. 1,343,838; June 15; v. 275; p. 554.
Nikonow, John P. New York, N. Y. Sounding signaling device. No. 1,342,863; June 8; v. 275; p. 298.
Nikonow, John P., New York, N. Y. Electric sadiron. No. 1,342,864; June 8; v. 275; p. 299.
Niles-Rement-Pond Company. (See Greenleaf, George E., assignor.)
Niles-Rement-Pond Company. (See Johnson, Sven P., assignor.)
Niles-Rement-Pond Company. (See Sears, Willard T., assignor.)
Nilsson, Anton L. V., Tularosa, N. Mex. Plastic composition. No. 1,344,058; June 22; v. 275; p. 662.
Nimmo, Jesse C. (See Nimmo, W. B., and Swaim, assignors.)
Nimmo, William B., Santa Ana, and C. S. Swaim, Long Beach; said Swaim assignor to J. C. Nimmo, Los Angeles, Calif. Automobile-lock. No. 1,341,925; June 1; v. 275; p. 61.
Nisbet, Theodore B., Irvington, N. Y. Windshield for automobiles. (Reissue.) No. 14,872; June 1; v. 275; p. 156.
Nitaka, Albert, Milwaukee, Wis. Piston. No. 1,345,221; June 29; v. 275; p. 951.
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Nobbs, Cornelius G. and W. W., London, England. Electrical heating and cooking apparatus. No. 1,345,222; June 29; v. 275; p. 952.
Nobbs, Walter W. (See Nobbs, Cornelius G. and W. W.)
Noe, William R., & Sons. (See Glanding, Tristram, assignor.)
Nogar, August, Reading, Pa. Garment. No. 1,345,223; June 29; v. 275; p. 952.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe and tube saw. No. 1,344,428; June 22; v. 275; p. 734.
Nonnenmann, Adolf, New York, N. Y. Comb. No. 1,342,224; June 1; v. 275; p. 121.
Nordell, Carl, Gilbertville, Mass. Bobbin and spindle connector. No. 1,343,839; June 15; v. 275; p. 554.
Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Means for preventing creeping of printing-plates. No. 1,344,648; June 29; v. 275; p. 843.
Nordlund, Erland, Stockholm, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Roller-bearing. No. 1,344,276; June 22; v. 275; p. 704.
Nordskog, Lawrence S., Des Moines, Iowa. Safety-razor. No. 1,342,028; June 1; v. 275; p. 81.
Norelius, Emil F., Peoria, Ill., and W. Turnbull, assignors to The Holt Manufacturing Company, Stockton, Calif. Cooling-radiator. No. 1,344,351; June 22; v. 275; p. 718.
Norland, Torvald G., Stavanger, Norway. Smoking and drying apparatus for fish or the like. No. 1,344,350; June 22; v. 275; p. 718.
North Bros. M'f'g Co. (See Fegley, T. J., and Leopold, assignors.)
North Bro's. M'f'g. Co. (See Leopold, George O., assignor.)
Northrop, Jonas. (See Draper, C. H., and Northrop.)
Northrup, Arthur D., Rochester, N. Y. Collapsible lensless finder for folding cameras. No. 1,345,224; June 29; v. 275; p. 952.
Northwest Process Company. (See Schaefer, August, assignor.)
Northwind Spark Plug Corporation. (See Cammen, L., and Ofeldt, assignors.)
Nuss, John J. (See Langrell, E. W., and Nuss.)
Nutry, John, Ridgewood, N. J. Guard for money-slots and the like. No. 1,343,151; June 8; v. 275; p. 355.
O'Brien, Frank J., Milwaukee, Wis. Metal-drawing apparatus. No. 1,341,664; June 1; v. 275; p. 10.
Ochs, George F. A., Newark, N. J. Railway-tie. No. 1,344,926; June 29; v. 275; p. 896.
O'Connor, James, New York, N. Y. Pneumatic mechanism. No. 1,342,180; June 1; v. 275; p. 112.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,344,309; June 22; v. 275; p. 710.
Odell, George W., Montreal, Quebec, Canada. Time-card-clipping machine. No. 1,344,059; June 22; v. 275; p. 662.
O'Donnell, John, Jr., assignor of one-half to L. H. Brown, Philadelphia, Pa. Signal for autos and other vehicles. No. 1,342,181; June 1; v. 275; p. 112.
Ofeldt, August W. (See Cammen, L., and Ofeldt.)
Ogden, Clarence E., Cincinnati, Ohio. Means for charging storage batteries. No. 1,344,812; June 29; v. 275; p. 874.
Oglesby, Samuel W., London, assignor to Hugh Stevenson & Sons, Limited, Manchester, England. Container. No. 1,345,021; June 29; v. 275; p. 913.
O'Gorman, William J., New York, N. Y. Attachment for spark-plugs. No. 1,343,372; June 15; v. 275; p. 461.
O'Hern, Joseph P., Chicago, Ill. Method and apparatus for measuring heat. No. 1,344,813; June 29; v. 275; p. 875.
Ohmacht, August L. W., Cresco, Iowa. Radiator-support. No. 1,344,559; June 22; v. 275; p. 760.
Ohmer, W. I. (See Hochstetter, Frederick W., assignor.)
Okey, Perry, Columbus, Ohio. Heat-engine. No. 1,343,577; June 15; v. 275; p. 501.
Oleen, Olof H., Columbia City, Oreg. Garden-tool. No. 1,342,392; June 1; v. 275; p. 151.
Olive, John T., Worden, Ill. Check-holder. No. 1,341,720; June 1; v. 275; p. 21.
Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
Oliver Chilled Plow Works. (See Stickley, Lloyd W., assignor.)
Oliver, Dew R., San Francisco, Calif. Air-motor. No. 1,345,022; June 29; v. 275; p. 913.
Oliver, Elmer, Daytona, Fla. Split demountable rim. No. 1,341,926; June 1; v. 275; p. 62.
Oliver, William J., Christchurch, New Zealand. Lifting or sling hook. No. 1,344,187; June 22; v. 275; p. 686.
Olley, Raymond H., Syracuse, N. Y. Power plant. No. 1,344,814; June 29; v. 275; p. 875.
Olson, Carl G., and N. Trbojevich, assignors to Illinois Tool Works, Chicago, Ill. Combination roughing and finishing hob. No. 1,343,276; June 15; v. 275; p. 442.
Olson, Magnus E. (See Kidder, Dwight E., assignor.)
Olson, William C., New Bedford, Ill. Pulley attachment for motors. No. 1,343,152; June 8; v. 275; p. 355.
Onar, Fusiffo, J., Council, Ark. Motorcycle. No. 1,343,788; June 15; v. 275; p. 544.
O'Neill, David, Woodside, N. Y. Window-screen. No. 1,342,298; June 1; v. 275; p. 134.
O'Neill, Pearl, *et al.* (See Spencer, William H., assignor.)
Ong, Nathaniel M., York, Pa. Flexible striking device for piano-actions. No. 1,342,029; June 1; v. 275; p. 81.
Onsrud, Oscar, Chicago, Ill. Grinding-machine. No. 1,341,818; June 1; v. 275; p. 40.
Opitz, Fred M., assignor to Perfex Radiator Company, Racine, Wis. Press or stamping-machine. No. 1,341,721; June 1; v. 275; p. 21.
Oravec, John, Galeton, Pa. Freight-car. No. 1,344,243; June 22; v. 275; p. 697.
Orcutt Automatic Train Control Company. (See Prince, B. A., and La Count, assignors.)

Ormes, William R., Waltham, Mass. Combined punch and counter-sinking-machine. No. 1,342,865; June 8; v. 275; p. 299.
Orr, William V., Cleveland, Ohio. Suction cleaning device. No. 1,342,592; June 8; v. 275; p. 245.
Orr, William V., Cleveland, Ohio. Vacuum cleaning-machine. No. 1,342,593; June 8; v. 275; p. 245.
Orrefors Bruks Aktiebolag. (See Ahlin, Albert, assignor.)
Orvin, Johan E., Christiania, Norway. Support-strap for reinforcement in steel-concrete girders. No. 1,342,349; June 1; v. 275; p. 144.
Osborn, Alexander C., Jr., Clarksburg, W. Va. Furnace. No. 1,343,470; June 15; v. 275; p. 479.
Osborn, William R., *et al.* (See Liebers, Meyer, assignor.)
Osram-Robertson Lamp Works. (See Durdle, Oswald, assignor.)
Ossa, Arturo A., Valparaiso, Chile. Extracting copper. No. 1,343,153; June 8; v. 275; p. 355.
Ostdiek, Herman J., Minneapolis, Minn. Caliper-rule. No. 1,343,227; June 15; v. 275; p. 434.
Osterwell, Sydney, assignor to L. Goldsmith & Son, Newark, N. J. Drawer-locking device. No. 1,343,742; June 15; v. 275; p. 534.
Ostmann, Louis W., St. Charles, Mo. Cushion-tire. No. 1,343,154; June 8; v. 275; p. 355.
Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,342,457; June 8; v. 275; p. 218.
Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,342,458; June 8; v. 275; p. 218.
Ostwald, Walter, Grossbothen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining by-products, particularly nitrogen compounds from blast-furnaces. No. 1,344,770; June 29; v. 275; p. 866.
Ott, Harvey N., and F. H. Rufton, assignors to Spencer Lens Co., Buffalo, N. Y. Projection apparatus. No. 1,341,665; June 1; v. 275; p. 10.
Ott, Harvey N., and F. H. Rufton, assignors to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,341,666; June 1; v. 275; p. 10.
Ott, Harvey N., and F. H. Rufton, assignors to Spencer Lens Co., Buffalo, N. Y. Adjusting means for projection objectives. No. 1,341,667; June 1; v. 275; p. 10.
Otten, Anthony J. (See Stenzel, Herman, assignor.)
Otterson, George W., Seattle, Wash. Traveling apparatus for cleaning sewer-basins. No. 1,343,471; June 15; v. 275; p. 480.
Otterson, George W., Seattle, Wash. Settling-bed. No. 1,344,710; June 29; v. 275; p. 854.
Otto, Maximilian J., New York, N. Y. Portable heating-stove. No. 1,343,578; June 15; v. 275; p. 502.
Otwell, Mary M. V., Carlinville, Ill. Sanitary handkerchief-container. No. 1,344,927; June 29; v. 275; p. 896.
Oursler, Sam R. (See Oursler, William C., assignor.)
Oursler, William C., assignor to S. R. Oursler, Memphis, Tenn. Automatic cleaning device for spark-plugs. No. 1,343,743; June 15; v. 275; p. 535.
Overbury, Frederick C., Rutherford, N. J., assignor to Flintkote Manufacturing Company, Boston, Mass. Forming roofing-strips. No. 1,345,099; June 29; v. 275; p. 928.
Owen, Clement M., Warrington, England. Liming and other tanning operations upon hides or skins. No. 1,342,866; June 8; v. 275; p. 299.
Owens-Stark Manufacturing Company. (See Stark, John R., assignor.)
Ozerowicz, Alexander, Detroit, Mich. Mechanic's tool. No. 1,341,757; June 1; v. 275; p. 29.
Ozone Company of America. (See Leggett, Ross M., assignor.)
Pacifice Car & Foundry Co. (See Falco, Frank T., assignor.)
Pack, Samuel B. (See Moore, D. P., and Pack.)
Packard, James A., assignor to Packard Stoker Corporation of America, Milwaukee, Wis. Furnace-grate. No. 1,344,144; June 22; v. 275; p. 678.
Packard Motor Car Company. (See Dewey, Frank H., assignor.)
Packard Motor Car Company. (See Lipps, Evrah C., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packard Stoker Corporation of America. (See Packard, James A., assignor.)
Packmore Manufacturing Company. (See Moore, D. P., and Pack, assignors.)
Page, Clarence R. (See Page, Edwin A., and C. R.)
Page, Edwin A., and C. R., Youngstown, Ohio. Automobile-control device. No. 1,342,060; June 1; v. 275; p. 88.
Page, Samuel D., Des Moines, Iowa. Cover for auction-sales records and the like. No. 1,345,329; June 29; v. 275; p. 973.
Pagel, William F., Sycamore, Ill. Torch. No. 1,343,403; June 15; v. 275; p. 467.
Paggi, Charles. (See Robichaux, S., and Paggi.)
Palen, William D., and H. Bogaty, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,345,225; June 29; v. 275; p. 952.
Palmer-Bee Company. (See McBride, Jesse E., assignor.)
Palmer Electric & Manufacturing Company, The. (See Palmer, Granville E., assignor.)
Palmer, Granville E., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Alternating-current electromagnet. No. 1,343,404; June 15; v. 275; p. 467.
Palmer, John F., Riverside, Ill. Carcass fabric for pneumatic tires. No. 1,344,145; June 22; v. 275; p. 678.
Palmer, Victor C., assignor of one-third to H. Joseph and one-third to J. F. Sullivan, Norwood, Colo. Automatic hay-ejector for sweep-rakes. No. 1,341,819; June 1; v. 275; p. 41.
Palmer, Walter W., Montclair, N. J., assignor of one-half to W. R. McCoy, New York, N. Y. Preserving-container. No. 1,343,579; June 15; v. 275; p. 502.
Palmgren, Nils A., Gottenborg, Sweden, assignor to S. K. F. Administrative Company, Inc., New York, N. Y. Double-acting thrust ball-bearing. No. 1,342,756; June 8; v. 275; p. 276.
Palmros, Alexander, assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Means for applying electric motors to winding-engines. No. 1,342,757; June 8; v. 275; p. 277.
Pancoast, William G., and W. J. Grotenhuis, Chicago, assignors to Biflex Products Company, Waukegan, Ill. Bumper attachment. No. 1,344,649; June 29; v. 275; p. 843.
Paoli, Arthur, Hancock, Mich. Hydraulic jack. No. 1,344,711; June 29; v. 275; p. 854.
Pape, August H., Kentfield, Calif. Fuel-supply for internal-combustion engines. No. 1,344,815; June 29; v. 275; p. 875.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Method and machine for cracking nuts. No. 1,342,689; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Nut-cracking machine. No. 1,342,690; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Method and machine for cracking nuts. No. 1,342,691; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Nut-cracking machine. No. 1,342,692; June 8; v. 275; p. 263.
Pape, Frederic A. G., assignor to L. N. Hine, New York, N. Y. Apparatus for removing the outer shell or husk from palm-nuts. No. 1,342,693; June 8; v. 275; p. 264.
Paper Bottle and Can Company. (See Selz, Andrew J., assignor.)
Paper Products Machine Company. (See Howard, Charles H., assignor.)
Paper Utilities Corporation. (See Hill, Herbert M., assignor.)
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Switch and contact mechanism for electric-current-regulating plugs and sockets. No. 1,342,061; June 1; v. 275; p. 88.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Coupling for faucets, spigots, or the like with fluid-receivers, hose, or other conductors of fluids. No. 1,343,228; June 15; v. 275; p. 434.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Compressible rheostat. No. 1,343,472; June 15; v. 275; p. 480.
Paragon Electric Company. (See Pen Dell, Charles W., assignor.)
Paris, Ezekiel N., Shawnee, Okla. Dish-washer. No. 1,345,226; June 29; v. 275; p. 952.
Parker, Benjamin, and W. F. Williams, Waroona, Western Australia, Australia. Rat-trap. No. 1,345,227; June 29; v. 275; p. 952.
Parker, Earle D. (See Colman, H. D., Peterson, and Parker.)
Parker, Humphrey F., Dunedin, New Zealand. Variable-camber-rib for aeroplane-wings. No. 1,341,758; June 1; v. 275; p. 29.
Parker, Norman C., Chicago, Ill. Protective pad for stairs. No. 1,344,310; June 22; v. 275; p. 711.
Parker, Winthrop, Manchester, N. H. Yarn-winding machine. No. 1,343,333; June 15; v. 275; p. 453.
Parkin, John, Jr., San Rafael, Calif. Variable-resistance device. No. 1,342,594; June 8; v. 275; p. 245.
Parkinson, William J., assignor to Eastman Kodak Company, Rochester, N. Y. Controlling device for punch-presses. No. 1,343,580; June 15; v. 275; p. 502.
Parmele, Edward A., and T. McLean, Staten Island, N. Y. Steering apparatus. No. 1,344,352; June 22; v. 275; p. 719.
Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Automobile-pedal lock. No. 1,343,405; June 15; v. 275; p. 467.
Parnall, Archie E., assignor to F. W. Williams, Chicago, Ill. Worm-wheel cutter. No. 1,343,982; June 22; v. 275; p. 646.
Parsons, Charles A., S. S. Cook, and A. J. Aldis, Wallsend, England; said Cook and said Aldis assignors to said Parsons. Turbine-blade attachment. No. 1,344,311; June 22; v. 275; p. 711.
Pasinski, Walter J., assignor to Burroughs Adding Machine Company. Detroit, Mich. Adding-machine. No. 1,342,459; June 8; v. 275; p. 218.
Passage, Don L., Bennington, N. Y. Clasp. No. 1,344,816; June 29; v. 275; p. 875.

Pataye, Frank, Gardenville, N. Y. Demountable metal tire for automobiles. No. 1,343,840; June 15; v. 275; p. 554.

Patent Corporation. (See Armstrong, John, assignor.)

Paterson, Frank E., Clarksburg, W. Va. Apparatus for producing carbon black. No. 1,344,060; June 22; v. 275; p. 662.

Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. No. 1,344,209; June 22; v. 275; p. 690.

Patterson, Fyson D., *et al.* (See Patterson, Thomas, assignor.)

Patterson, John T., Detroit, Mich. Modification of planes when stationary and moving. No. 1,344,244; June 22; v. 275; p. 697.

Patterson, Robert H., Winchester, Ky. Wire-fence stretcher. No. 1,344,312; June 22; v. 275; p. 711.

Patterson, Thomas, assignor of one-third to F. D. Patterson and one-third to T. E. Patterson, Hamilton, Ontario, Canada. Portable hanger for hoisting-tackle. No. 1,343,641; June 15; v. 275; p. 514.

Patterson, Thomas E., *et al.* (See Patterson, Thomas, assignor.)

Pattison, Harold W., Seattle, Wash. Automatic continuous-rail crossing. No. 1,344,957; June 29; v. 275; p. 901.

Patton, Oliver C., Denver, Colo., assignor to The Auto Dimmer Company. Dimmer for automobile-headlights. No. 1,343,886; June 15; v. 275; p. 563.

Pandois, Jules, Opheim, Mont. Animal-trap. No. 1,344,712; June 29; v. 275; p. 854.

Paul, Louis, assignor of one-half to J. Satre, Spokane, Wash. Smoke-reducer. No. 1,342,867; June 8; v. 275; p. 299.

Payne, Lawrence C., Anacostia, assignor of one-half to H. L. Harris, Washington, D. C. Adjustable gage for planes. No. 1,341,820; June 1; v. 275; p. 41.

Payne, Thomas F., Pittsburgh, Pa. Puddling-iron. No. 1,342,694; June 8; v. 275; p. 264.

Peabody, James C., Boston, Mass. Battery-jar. No. 1,344,771; June 29; v. 275; p. 866.

Pearson, George D., Montreal, Quebec, Canada. Tire. No. 1,345,228; June 29; v. 275; p. 953.

Pearson, Gustave C., Denver, Colo. Individual-bottle carrier. No. 1,342,568; June 8; v. 275; p. 240.

Pease, C. F., Company, The. (See Kluever, Fred W., assignor.)

Peck, Charles B., Suffern, N. Y. Dust-collector. No. 1,344,146; June 22; v. 275; p. 678.

Pedersen, Carsten, Copenhagen, Denmark. Conveying device. No. 1,343,373; June 15; v. 275; p. 461.

Pedersen, Oscar A., New York, N. Y. Electric push-button fixture. No. 1,341,668; June 1; v. 275; p. 11.

Peelle Company, The. (See Wexler, Benjamin, assignor.)

Pelc, Frank and S., McDonald, Pa. Beehive. No. 1,344,817; June 29; v. 275; p. 875.

Pelc, Stefania. (See Pelc, Frank and S.)

Pelletier, Charles O., Oakland, Calif. Folding bed. No. 1,344,188; June 22; v. 275; p. 686.

Pemble, Edward E., Vancouver, British Columbia, Canada. Window-frame for vehicle-curtains. No. 1,342,460; June 8; v. 275; p. 218.

Pen Dell, Charles W., Chicago, Ill., assignor to Paragon Electric Company. Grounding device. No. 1,342,645; June 8; v. 275; p. 254.

Pendergast, Frederick W., Cambridge, Mass. Diving apparatus. No. 1,343,744; June 15; v. 275; p. 535.

Pendergast, Frederick W., Cambridge, Mass. Chimney-heater. No. 1,343,745; June 15; v. 275; p. 535.

Pentecost, Arthur, East Orange, N. J., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,342,969; June 8; v. 275; p. 319.

Peoples, John S., Washington, D. C. Ammunition-receptacle. No. 1,343,374; June 15; v. 275; p. 462.

Peppercorn, Alfred E., Forbes, New South Wales, Australia. Automatic additional-air valve for combustion-engines. No. 1,343,375; June 15; v. 275; p. 462.

Perdala, Fred, Newark, N. J. Resilient tire. No. 1,343,155; June 8; v. 275; p. 356.

Peremi, Edward, Brooklyn, N. Y. Repeating device for sound-reproducing machines. No. 1,343,087; June 8; v. 275; p. 342.

Perfect Re-Fillable Fuse. (See Muller, William F., assignor.)

Perfektone Corporation, The. (See Adams, Fred, assignor.)

Perfex Radiator Company. (See Opitz, Fred M., assignor.)

Perlman, Louis H., New York, N. Y. Wheel. No. 1,342,225; June 1; v. 275; p. 121.

Permolin Products Company Inc. (See Rauer, Philipp, assignor.)

Permutit Company, The. (See Massatsch, Cornelius, assignor.)

Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Tack-feeding mechanism. No. 1,341,821; June 1; v. 275; p. 41.

Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Shoe-heeling method. No. 1,345,023; June 29; v. 275; p. 913.

Perrot, Emile G., Philadelphia, Pa. Building. No. 1,342,062; June 1; v. 275; p. 88.

Perry, Edward T., assignor of one-half to H. M. Wiegand, Detroit, Mich. Baffle-plate. No. 1,343,376; June 15; v. 275; p. 462.

Perry, Elmer G., Spring Hope, N. C. Fertilizer-distributer. No. 1,342,296; June 1; v. 275; p. 134.

Perry, Frank R., Chicago, Ill., assignor of one-half to H. S. Benjamin, Detroit, Mich. Purifying apparatus for lubricants. No. 1,342,063; June 1; v. 275; p. 88.

Perry, Lindon A. (See Clifford, F. J., and Perry.)

Perry, Thomas O., Oak Park, Ill. Friction-clutch. No. 1,345,100; June 29; v. 275; p. 928.

Perry, Thomas O., Oak Park, Ill. Aircraft. No. 1,345,101; June 29; v. 275; p. 928.

Petermann, Joseph, Philadelphia, Pa. Apparatus for cutting and breaking asphalt or concrete. No. 1,344,560; June 22; v. 275; p. 760.

Peters, Caroline A., Los Angeles, Calif. Hat. No. 1,342,132; June 1; v. 275; p. 102.

Peters, George M., Kirkwood, Mo. Cushion-wheel. No. 1,342,461; June 8; v. 275; p. 218.

Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Reactance-coil. No. 1,344,713; June 29; v. 275; p. 855.

Petersen, August H. (See Lacroix, J. D., and Petersen.)

Petersen, Hans, assignor to The Linograph Company, Davenport, Iowa. Mold. No. 1,342,595; June 8; v. 275; p. 245.

Petersen, Soren F., Chicago, Ill. Mop. No. 1,342,182; June 1; v. 275; p. 112.

Peterson, Burt A. (See Colman, H. D., Peterson, and Parker.)

Peterson, Jonathan, Brooklyn, N. Y. Pocket box or container. No. 1,344,650; June 29; v. 275; p. 843.

Peterson, Oscar A., and O. M. Brancel, Minneapolis, Minn. Vulcanizing-tool. No. 1,344,313; June 22; v. 275; p. 711.

Peterson, Per A., New York, N. Y. Combination implement. No. 1,341,759; June 1; v. 275; p. 29.

Petit, Arville H., Huntington, W. Va. Automatic trap-nest. No. 1,345,229; June 29; v. 275; p. 953.

Petrusavage, Peter, Mahanoy City, Pa. Antisubmarine device. No. 1,342,064; June 1; v. 275; p. 88.

Petteys, Willard A., Wilcox, Nebr. Grain cleaner, separator, and drier. No. 1,345,230; June 29; v. 275; p. 953.

Pfaudler Company, The. (See Douglas, Ira C., assignor.)

Pfeil, Elmer C., Fostoria, Ohio, and H. O. Bemisderfer, Hammond, Ind., assignors to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,343,841; June 15; v. 275; p. 554.

Pflaume, Julius R., Chicago, Ill., assignor to Meteor Motor Company. Engine. No. 1,343,473; June 15; v. 275; p. 480.

Phelps Can Company. (See Phelps, Walter J., assignor.)

Phelps, Walter J., Baltimore, Md., assignor to Phelps Can Company, Weirton, W. Va. Can-tester. No. 1,344,515; June 22; v. 275; p. 751.

Philadelphia Storage Battery Company. (See Bottone, Victor R., assignor.)

Philadelphia Textile Machinery Company, The. (See Palen, W. D., and Bogaty, assignors.)

Philadelphia Textile Machinery Company, The. (See Schwartz, Walter M., assignor.)

Philbrook, Edward F., Jr., Kansas City, Mo. Stand. No. 1,342,229; June 15; v. 275; p. 434.

Phillips, Fred V., assignor of one-half to G. R. Cogswell, Rome, N. Y. Bottle-cap. No. 1,344,516; June 22; v. 275; p. 751.

Phillips, John H., Yonkers, N. Y. Article of furniture. No. 1,344,277; June 22; v. 275; p. 704.

Pichl, Anthony J., St. Louis, Mo. Carbureter. No. 1,343,983; June 22; v. 275; p. 646.

Pick, Paul W., Portland, Oreg. Sanitary non-spillable milk-bucket. No. 1,342,569; June 8; v. 275; p. 240.

Pickens, Julius A., and W. F. Hester, Easley, S. C. Elevator mechanism. No. 1,342,596; June 8; v. 275; p. 245.

Pierce, Arthur E., Portland, Oreg. Umbrella or parasol holder. No. 1,344,245; June 22; v. 275; p. 697.

Pierce, Harry L., East Downingtown, Pa. Aeroplane. No. 1,344,314; June 22; v. 275; p. 711.

Pierce, John, Jr., South Norwalk, assignor of one-half to D. S. Cummings, Stamford, Conn. Steam-boiler. No. 1,345,231; June 29; v. 275; p. 953.

Pierce, Winslow S., Jr., Bayville, N. Y. Lock for nuts and the like. No. 1,343,334; June 15; v. 275; p. 453.

Piersol, Robert J., Bentleyville, Pa. Process and apparatus for metal-plating. No. 1,343,842; June 15; v. 275; p. 555.

Pilling, Henry Chorlton-cum-Hardy, England. Valve-gear for reciprocating steam-engines. No. 1,345,232; June 29; v. 275; p. 954.

Pilling, Henry, Chorlton-cum-Hardy, England. Piston for gas-engines. No. 1,345,233; June 29; v. 275; p. 954.

Pilon, Alfred. (See Gagnon, Simeon, assignor.)

Pine, James A. W., New York, N. Y., assignor, by mesne assignments, to Blackstone International Corporation. Coating mineral material and product resulting therefrom. No. 1,343,680; June 15; v. 275; p. 522.

Pine Tree Milking Machine Company. (See Macartney, Arthur C., assignor.)

Pinto, Carlos P., Buenos Aires, Argentina. Revolver and similar arms. No. 1,342,923; June 8; v. 275; p. 310.

Pioneer Broom Company. (See Christopher, William M., assignor.)

Piper, George M., Cedar Falls, Iowa, assignor, by mesne assignments, to Sharon Hardware Manufacturing Company, Sharon, Pa. Door-hanger. (Reissue.) No. 14,893; June 22; v. 275; p. 771.

Pirwitz, Friedrich A. G. (See Riddell, W. A., and Pirwitz.)

Pitkin, George P., Bergenfield, N. J. Temperature-indicator for engine-water circulation. No. 1,343,088; June 8; v. 275; p. 343.

Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,341,995; June 1; v. 275; p. 74.

Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,345,102; June 29; v. 275; p. 928.

Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)

Pittsburgh Steel Products Company. (See Wikstrom, Malcolm U., assignor.)

Placette, Joseph G., assignor to T. Placette, Port Arthur, Tex. Burner. No. 1,342,226; June 1; v. 275; p. 121.

Placette, Theodore. (See Placette, Joseph G., assignor.)

Plante, Joseph A., San Pedro, Calif. Overshot. No. 1,345,103; June 29; v. 275; p. 929.

Plastoid Products, Inc. (See Routl, O. L., McConnell, and Glaze, assignors.)

Platt, Clarence D., Bridgeport, Conn. Electric-switch lock. No. 1,344,958; June 29; v. 275; p. 901.

Platt, Leo, New York, N. Y. Camisole. No. 1,344,004; June 22; v. 275; p. 651.

Plice, Thomas V., assignor to The Topping Manufacturing Co., Ashland, Ohio. Swivel-hanger for doors. No. 1,343,789; June 15; v. 275; p. 544.

Plucienski, John, Syracuse, N. Y. Freight loading and unloading crane. No. 1,341,996; June 1; v. 275; p. 75.

Plucienski, John, Syracuse, N. Y. Sanitary cuspidor. No. 1,343,406; June 15; v. 275; p. 468.

Plumb, Frederic W., assignor to The Narrow Fabric Company, Wyomissing, Pa. Rubber-core-tensioning mechanism for braiding-machines. No. 1,342,646; June 8; v. 275; p. 254.

Plumb, Roy A., Detroit, Mich., assignor to Truscon Steel Company, Youngstown, Ohio. Composite-tapered shingle machine. No. 1,343,581; June 15; v. 275; p. 502.

Pneumatic Cushion Company. (See Gruss, Lucien R., assignor.)

Pneumatic Pump Company. (See Goss, George W., assignor.)

Pneumatic Process Flotation Company. (See Gahl, R., and Haskell, assignors.)

Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)

Pneumelectric Machine Company, The. (See Palmros, Alexander, assignor.)

Pocock, Sylvester J., Hamilton, Ontario, Canada. Gas-meter mechanism. No. 1,344,714; June 29; v. 275; p. 855.

Poe Range Company, The. (See Poe, Robert L., assignor.)

Poe, Robert L., assignor to The Poe Range Company, Chicago, Ill. Range. No. 1,344,061; June 22; v. 275; p. 662.

Poehner, Conrad, Cincinnati, Ohio. Ventilating-window. No. 1,344,561; June 22; v. 275; p. 760.

Pogue, Robert H., Winnipeg, Manitoba, Canada. Safety-hitch. No. 1,344,818; June 29; v. 275; p. 875.

Polanco, Carlos L. (See Robert, August, assignor.)

Poland, Edward F., Boston, Mass. Washing-machine. No. 1,344,089; June 22; v. 275; p. 667.

Pollard, Ellery, Brooklyn, N. Y. Binding appliance. No. 1,344,959; June 29; v. 275; p. 901.

Pollock, George, San Francisco, Calif. Making shoes. (Reissue.) No. 14,882; June 15; v. 275; p. 564.

Pond, Oscar L. (See Zehringer, Howard A., assignor.)

Pope, Clarence J., Chicago, assignor of one-half to N. Hanson, Batavia, Ill. Magazine-hammer. No. 1,344,715; June 29; v. 275; p. 855.

Pope, Turner T., Houston, assignor of one-half to M. E. Foster, Harris county, Tex. Vaporizing attachment. No. 1,341,760; June 1; v. 275; p. 29.

Popper, Isaac C., and C. H. Bayer, New York, N. Y. Heater. No. 1,342,570; June 8; v. 275; p. 240.

Porath, Carl A., Kokomo, Ind. Galvanizing-furnace. No. 1,343,843; June 15; v. 275; p. 555.

Porter, Edgar S., Clifton, Colo. Machine for assorting fruit according to size. No. 1,342,571; June 8; v. 275; p. 241.

Porter, Edwin F., assignor to United Mattress Machinery Company, Boston, Mass. Pump. No. 1,341,669; June 1; v. 275; p. 11.

Porter, Stephen C., Brooklyn, assignor to Porterphone Corporation, New York, N. Y. Telephone-transmitter. No. 1,341,997; June 1; v. 275; p. 75.

Porterphone Corporation. (See Porter, Stephen C., assignor.)

Post Card Vending Machine Company. (See Wright, Charles B., assignor.)

Post, Charles R., New York, N. Y. Wind-indicator. No. 1,344,315; June 22; v. 275; p. 711.

Post, Howard A., Kansas City, Mo. Foot-treating appliance. No. 1,342,597; June 8; v. 275; p. 245.

Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Junction-piece for connecting together certain structural members of aeroplanes. No. 1,345,024; June 29; v. 275; p. 914.

Postelle, J. M. (See Fowler, Lewis D., assignor.)

Poto, Mariano, assignor to Anciens Etablissements A. Combe & Fils & Cie., Paris, France. Straining leather or skins. No. 1,345,234; June 29; v. 275; p. 954.

Potten, Frederick. (See Mortimer, W., and Potten.)

Potter, Earl C., Chicago, Ill., assignor, by mesne assignments, to Sefton Manufacturing Corporation, Millbrook, N. Y. Shipping-box. No. 1,344,147; June 22; v. 275; p. 678.

Potts, Thomas C. and A. R. Mann, Holtville, Calif. Container with adjustable false bottom. No. 1,341,927; June 1; v. 275; p. 62.

Poulsen, Oscar, *et al.*, administrators. (See Krogh, Ferdinand W.)

Powell, Earl J., assignor to The Dunham Company, Berea, Ohio. Tandem implement. No. 1,344,819; June 29; v. 275; p. 876.

Powell, Harry E., Anderson, Ind. Bed-spring. No. 1,345,235; June 29; v. 275; p. 954.

Powell, James F., assignor of one-fourth to J. S. Hodgins, Flint, Mich. Telescopic container. No. 1,344,716; June 29; v. 275; p. 855.

Powell, John T. (See Hubbard, Burtt J., assignor.)

Powell, Ransom J., Minneapolis, Minn. Casting-machine. No. 1,341,670; June 1; v. 275; p. 11.

Powers, James M., Miami, Fla. Hatband. No. 1,342,924; June 8; v. 275; p. 310.

Powers, Timothy B., Brooklyn, N. Y., and W. Fuhrmann, Westfield, N. J. Calipers. No. 1,345,236; June 29; v. 275; p. 954.

Powlick, John J., Clairton, Pa. Rail-joint. No. 1,342,065; June 1; v. 275; p. 89.

Pratt, Charles M., Towanda, Pa. Stamp-moistener. No. 1,342,824; June 8; v. 275; p. 291.

Pratt, David S. (See Hedenburg, O. F., and Pratt.)

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Loading apparatus. No. 1,343,746; June 15; v. 275; p. 535.

Pratt-Low Preserving Co. (See Gavin, William H., assignor.)

Pratt, Robert C., Calhoun, Okla. Propeller. No. 1,345,237; June 29; v. 275; p. 955.

Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)

Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Apparatus for welding. No. 1,343,277; June 15; v. 275; p. 443.

Pray, Charles H., Los Angeles, Calif. Fire-escape. No. 1,343,642; June 15; v. 275; p. 514.

Preble, Henry T., Stockton, Calif. Self-propelled vehicle. No. 1,344,353; June 22; v. 275; p. 719.

Premier Register Table Company. (See West, Elbert L. and J., assignors.)

Price, Raymond B., New York, N. Y., assignor to The Goodyear's Metallic Rubber Shoe Company. Last for footwear. No. 1,342,970; June 8; v. 275; p. 319.

Price & Teeple Piano Company. (See Freborg, Charles, assignor.)

Prideaux, William de C., Weymouth, England. Construction of link for ammunition-belts for machine-guns. No. 1,343,060; June 8; v. 275; p. 337.

Priestly Coupler Company. (See Aubery, James M., assignor.)

Primolite Company. (See Howard, Elverton I., assignor.)

Prince, Benjamin A., and E. I. La Count, assignors to Orcutt Automatic Train Control Company, Worcester, Mass. Train-controlling system. No. 1,342,572; June 8; v. 275; p. 241.

Prince, Clarence K., Westfield, Mass. Mold-assembling crane. No. 1,343,335; June 15; v. 275; p. 454.

Printograph Manufacturing Co. (See Duscher, Ernest, assignor.)

Prinz, Charles C., Louisville, Ky. Record-cleaner. No. 1,343,156; June 8; v. 275; p. 356.

Probasco, Purley O., Buhl, Idaho. Auto-rim tool. No. 1,344,562; June 22; v. 275; p. 760.

Process Company, The. (See Coast, John W., Jr., assignor.)

Promenschenkel, Joseph W., Shelby, Ohio. Ear-snapping and corn-husking machine. No. 1,344,563; June 22; v. 275; p. 761.

Prudhomme, Robert L., Natchitoches, La. Automobile-tire. No. 1,342,297; June 1; v. 275; p. 134.

Pryde, Irving A., Richmond, Va. Closure for containers. No. 1,343,474; June 15; v. 275; p. 480.

Public Service Cup Company. (See Errett, Charles, assignor.)

Puchaczkevski, Vladyslaw, Montreal, Quebec, Canada. Pot-lifter. No. 1,342,758; June 8; v. 275; p. 277.

Puff, Henry, St. Cloud, Minn. Vehicle-body and portable extension therefor. No. 1,344,717; June 29; v. 275; p. 855.

Pugh, Morton E., Chicago, Ill. Excavating-dipper. No. 1,342,759; June 8; v. 275; p. 277.

Puntolillo, Gaetano F., New York, N. Y. Banjo. No. 1,345,104; June 29; v. 275; p. 929.

Purdy, James L., Union, Wash. Saw-filing device. No. 1,342,462; June 8; v. 275; p. 219.

Putnam, F. A., Manufacturing Company. (See Putnam, F. A., and Reyoum, assignors.)

Putnam, Fred A. and O. C. Reyoum, assignors to F. A. Putnam Manufacturing Company, Keene, N. H. Traction-chain for caterpillar-tractors and the like. No. 1,341,761; June 1; v. 275; p. 29.

Putnam, James K., Tulsa, Okla. Pump. No. 1,343,157; June 8; v. 275; p. 356.
Putney, Albert N., Syracuse, N. Y. Fish-stringer. No. 1,341,722; June 1; v. 275; p. 21.
Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gripper mechanism. No. 1,344,316; June 22; v. 275; p. 712.
Quackenboss, Leonard G., Chicago, Ill. Display-holder. No. 1,341,822; June 1; v. 275; p. 41.
Quackenboss, Leonard G., Chicago, Ill. Display-holder. No. 1,343,681; June 15; v. 275; p. 522.
Quality Brands Company, The. (See Kost, S. A., and Yaeger, assignors.)
Quinlan, Thomas, Milwaukee, Wis. School desk and seat. No. 1,345,105; June 29; v. 275; p. 929.
Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Web-printing machine. No. 1,343,931; June 22; v. 275; p. 637.
Rabbeth, Francis J., Redlands, Calif. Coffee-pot. No. 1,343,582; June 15; v. 275; p. 502.
Racosky, John, Jerome, Pa. Cut-out switch for mine-trolleys. No. 1,343,475; June 15; v. 275; p. 480.
Radakovich, Michael, Milwaukee, Wis. Projectile. No. 1,343,747; June 15; v. 275; p. 536.
Rader, Anthony C., Alta, Iowa. Fountain-pen. No. 1,343,521; June 15; v. 275; p. 490.
Radio Corporation of America. See Weagant, Roy A., assignor.)
Raff, Ernest G., assignor to Stiles-Gilliland Manufacturing Company, St. Louis, Mo. Implement for smoothing metal. No. 1,344,960; June 29; v. 275; p. 901.
Rafn, Robert, Moss, Norway. Conveyer. No. 1,344,246; June 22; v. 275; p. 697.
Ragan, Frederick H., assignor to Gemmer Manufacturing Company, Detroit, Mich. Steering-gear. No. 1,344,005; June 22; v. 275; p. 651.
Ragona, Vincent, assignor, by mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y. Band-stretcher. No. 1,343,336; June 15; v. 275; p. 454.
Raia, Charles S., Garfield, N. J. Ice-cream cutter. No. 1,343,932; June 22; v. 275; p. 637.
Railway Specialties Company. (See Morse, Mark S., assignor.)
Railway's Accessories Company. (See Wightman, Merle J., assignor.)
Rainey, Paul M., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,341,998; June 1; v. 275; p. 75.
Raley, William H., Claremore, Okla. Gate-hanger. No. 1,342,227; June 1; v. 275; p. 121.
Ramos, Rafaél and A. de Cardenas, Aguada de Pasajeros, Cuba. Device for connecting ox-yokes to cart-poles. No. 1,344,354; June 22; v. 275; p. 719.
Ramsey, Joseph H., Albany, N. Y. Pocket game-board. No. 1,343,984; June 22; v. 275; p. 647.
Randall-Faichney Company, The. (See Faichney, George H., assignor.)
Ransom, George H., Birmingham, England. Wind-screen for use on conveyances and like purposes. No. 1,342,183; June 1; v. 275; p. 112.
Rapavy, Gaspar, Louisville, Nebr. Dough-cutter. No. 1,343,844; June 15; v. 275; p. 555.
Raplee, John R., Shelbina, Mo. Stock-loading chute. No. 1,345,238; June 29; v. 275; p. 955.
Rapson, Frederick L., Liverpool, England. Lifting-jack. No. 1,343,845; June 15; v. 275; p. 555.
Rapson, Frederick L., Liverpool, England. Means for steering motor-vehicles. No. 1,343,846; June 15; v. 275; p. 555.
Rasel, Louis C. (See Allender, Charles W. G., assignor.)
Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Stanchion-alinement device. No. 1,344,651; June 29; v. 275; p. 843.
Rassmann, Hugo C., Beaver Dam, Wis. Watering device for cattle. No. 1,344,189; June 22; v. 275; p. 686.
Ratekin, William J., Oakes, N. D. Grate. No. 1,344,062; June 22; v. 275; p. 662.
Rauer, Philipp, New York, assignor to Permolin Products Company, Inc., Brooklyn, N. Y. Process of producing molded objects and apparatus for use in connection therewith. No. 1,342,184; June 1; v. 275; p. 112.
Rausch, Carl A., Leipzig-Gohlis, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Boarding-machine. No. 1,342,760; June 8; v. 275; p. 277.
Ray, Frederick, Short Hills, N. J. Apparatus for manufacturing piston-rings. No. 1,341,671; June 1; v. 275; p. 11.
Ray, William F., Chicago, Ill. Apparatus for manufacturing tires or interliners. (Reissue.) No. 14,879; June 8; v. 275; p. 363.
Re, Enrico, Camden, N. J. Stringed musical instrument. No. 1,345,239; June 29; v. 275; p. 955.
Read, Fred A., Lynn, assignor to Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,345,025; June 29; v. 275; p. 914.
Read, Perry D., Norfolk, Va. Automobile-bumper. No. 1,342,393; June 1; v. 275; p. 151.
Readfield, Oliver A., *et al.* (See McFarlane, Percy D., assignor.)
Reamy, Christopher S., Los Angeles, Calif. Heel-cutter. No. 1,344,247; June 22; v. 275; p. 697.
Reavell, William, Ipswich, England. Hydroplane or horizontal rudder of submarine vessels. No. 1,343,643; June 15; v. 275; p. 514.
Rebsamen, Emmett J., St. Louis, Mo. Keyless lock. No. 1,344,517; June 22; v. 275; p. 752.
Rector, Enoch, New York, N. Y. Portable burner. No. 1,341,672; June 1; v. 275; p. 12.
Redfield, Edward E., Glendale, Oreg. Firearm. No. 1,343,583; June 15; v. 275; p. 503.
Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, assignors to Redmantol Chemical Products Company, Chicago, Ill. Cigarette-holder. No. 1,342,868; June 8; v. 275; p. 299.
Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)
Reece Button Hole Machine Company. (See Read, Fred A., assignor.)
Reece Button Hole Machine Company. (See Reece, Franklin A., assignor.)
Reece Button Hole Machine Company, The. (See Klewicz, John, assignor.)
Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,343,278; June 15; v. 275; p. 443.
Reece, Franklin A., Hopkinton, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,343,337; June 15; v. 275; p. 454.
Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
Reed, Evan L., Sterling, Ill. Paper-roll support. No. 1,341,862; June 1; v. 275; p. 49.
Reed, Melvin B., Latrobe, Pa. Nut-lock. No. 1,342,508; June 8; v. 275; p. 228.
Rees, Edmund S. G., Wolverhampton, England. Propulsion and steering of ships. No. 1,344,518; June 22; v. 275; p. 752.
Reese, Alba D., Bisbee, Ariz. Device for registering explosions. No. 1,343,875; June 15; v. 275; p. 562.
Reese, Frank, Minneapolis, Minn. Screen for swinging sash. No. 1,343,933; June 22; v. 275; p. 637.
Reese, James A., Blytheville, Ark, assignor to American Pipe Machine Company. Machine for threading pipes. No. 1,343,158; June 8; v. 275; p. 356.
Reeve, Henry E., New York, N. Y. Fuel-regulator. (Reissue.) No. 14,894; June 22; v. 275; p. 771.
Reeve, Henry E., New York, N. Y. Fuel-regulator. (Reissue.) No. 14,895; June 22; v. 275; p. 772.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Machine for cutting agates and similar stones. No. 1,342,647; June 8; v. 275; p. 254.
Reh, Mathew, Salina, Kans. Swinging gate. No. 1,344,820; June 29; v. 275; p. 876.
Rehrig, William J., Los Angeles, Calif. Apparatus for making wood separators for storage batteries, &c. No. 1,342,925; June 8; v. 275; p. 310.
Reid, Pettis A. and W. V., and J. Kelley, Richmond, Ind.; said W. V. Reid and J. Kelley assignors to said P. A. Reid. Wire-fabric machine. No. 1,344,595; June 22; v. 275; p. 767.
Reid, Robert, Sanford, Me. Robe-securing device. No. 1,343,847; June 15; v. 275; p. 555.
Reid, Walter V. (See Reid, P. A. and W. V., and Kelley.)
Reiferscheid, William, Chicago, Ill. Radiator. No. 1,344,772; June 29; v. 275; p. 867.
Reifsnyder, James D., and W. A. Weightman, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Box-covering machine. No. 1,343,748; June 15; v. 275; p. 536.
Reilly, Mabel A., Freeville, N. Y. Book or sheet-music opener. No. 1,345,336; June 29; v. 275; p. 974.
Reim-Thompson Co. (See Bentel, George R., assignor.)
Reinhardt, James H., East Orange, N. J., assignor of one-half to Federal Sugar Refining Company, New York, N. Y. Weighing-machine. No. 1,343,476; June 15; v. 275; p. 481.
Reinhold, Herman F. (See Bauer, H. R., and Reinhold.)
Reisinger, Frank F., Evansville, Ind. Running-board structure. No. 1,343,281; June 15; v. 275; p. 443.
Reitzel, George A., St. Louis, Mo. Shoe shining or polishing brush. No. 1,342,971; June 8; v. 275; p. 319.
Relay Automatic Telephone Company, The. (See Bygrave, L. C., and Inman.)
Remington, Alfred A. (See Leeding, E. J., and Remington.)
Remington Typewriter Company. (See Bridgwater, Herbert E., assignor.)
Remington Typewriter Company. (See Labofish, Charles S., assignor.)
Remington Typewriter Company (See Seib, George A., assignor.)
Remington Typewriter Company. (See Smith, Arthur W., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Remington, Wolcott, Lynn, assignor to Thomson Electric Welding Company, Boston, Mass. Electric metal-working apparatus. No. 1,344,961; June 29; v. 275; p. 902.
Rena, John. (See Camporini, A., and Rena.)
Renner, Nicholas, Defiance, Ohio. Ventilator. No. 1,342,066; June 1; v. 275; p. 89.

Rennie, George J., Buffalo, N. Y. Rail-block for furnaces. No. 1,341,928; June 1; v. 275; p. 62.
Repony, Daniel, Passaic, N. J., assignor to The Manhattan Rubber Mfg. Company. Clutch-facing. No. 1,341,673; June 1; v. 275; p. 12.
Republic Metalware Company, The. (See Jensen, Otto H., assignor.)
Research Corporation. (See Bradley, Linn, assignor.)
Research Corporation. (See Squires, Harold W., assignor.)
Reton, John, Stevens Point, Wis. Hydraulic transmission mechanism. No. 1,343,749; June 15; v. 275; p. 536.
Reuter, Earl T., and W. A. Skinner, Manchester, N. H. Crimping-machine. No. 1,345,240; June 20; v. 275; p. 955.
Revega, Efrem, Detroit, Mich. Match-box. No. 1,342,695; June 8; v. 275; p. 264.
Revolvator Company. (See Boehck, William E., assignor.)
Reynolds, Arthur W., Newtown, Conn. Tractor-harrow-operating mechanism. No. 1,341,824; June 1; v. 275; p. 42.
Reynolds, Charles D., Gretna, Va. Flue-support. No. 1,343,279; June 15; v. 275; p. 443.
Reynolds, Charles H., Hermosa Beach, Calif. Ball-throwing and exercising device. No. 1,345,241; June 29; v. 275; p. 955.
Reynolds, Delbert J., Minneapolis, Minn., assignor to J. W. De Camp, Blackwell, Okla. Casket-panel. No. 1,343,280; June 15; v. 275; p. 443.
Reynolds Engineering Company. (See Brown, Harold, assignor.)
Reynolds, Joy S., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash Oxyacetylene-torch for cutting tubes. No. 1,345,242; June 29; v. 275; p. 956.
Reynolds, Reginald, Riverside, Conn. Thread package or holder. No. 1,343,934; June 22; v. 275; p. 637.
Reynolds Torch Manufacturing Company. (See Reynolds, Joy S., assignor.)
Reyoum, Oriey C. (See Putnam, F. A., and Reyoum.)
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,342,573; June 8; v. 275; p. 241.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,341,999; June 1; v. 275; p. 75.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Terry-loom. No. 1,341,929; June 1; v. 275; p. 62.
Rhodes, Wilbert C., East Rochester, N. H. Knitting-needle holder. No. 1,344,821; June 29; v. 275; p. 876.
Rhodin, Jacob F., Highland Park, Mich. Illuminating apparatus. No. 1,341,674; June 1; v. 275; p. 12.
Ricardo, Harry R., London, England. Balancing of reciprocating engines No. 1,342,648; June 8; v. 275; p. 254.
Ricardo, Harry R., London, England. Means for heating the charges in internal-combustion engines. No. 1,342,869; June 8; v. 275; p. 299.
Rice, Anson S., Brooklyn, assignor to Duparquet, Hout & Moneuse, New York, N. Y. Coffee-urn. No. 1,343,848; June 15; v. 275; p. 556.
Rice, Anson S., Brooklyn, assignor to Duparquet, Hout & Moneuse, New York, N. Y. Roll-heating device. No. 1,343,849; June 15; v. 275; p. 556.
Rice, Frank L., Chicago, Ill., assignor to J. B. Clow & Sons. Radiator. No. 1,342,509; June 8; v. 275; p. 228.
Rich, Ralph E. (See Ladd, J. W. B., and Rich.)
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Spinning-machine. No. 1,343,230; June 15; v. 275; p. 434.
Rice, John A., San Francisco, Calif. Centrifugal ore-separator. No. 1,344,519; June 22; v. 275; p. 752.
Rice, Merritt, Colchester, Ill. Method and device for producing plates for artificial teeth. No. 1,343,935; June 22; v. 275; p. 638.
Richard, Maurice L. J., Quebec, Quebec, Canada. Toy. No. 1,344,451; June 22; v. 275; p. 739.
Richards, Willard F., Depew, N. Y., assignor by mesne assignments, to The Atlantic Hand Brake Corporation. Hand-brake. No. 1,343,061; June 8; v. 275; p. 337.
Richardson, Linwood T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Producing molded products. No. 1,342,067; June 1; v. 275; p. 89.
Richardson, Orlo D., Chicago, Ill. Tracton-vehicle. No. 1,342,761; June 8; v. 275; p. 278.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone-repeater. No. 1,344,210; June 22; v. 275; p. 690.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Selective switching mechanism. No. 1,344,822; June 29; v. 275; p. 876.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,344,823; June 29; v. 275; p. 876.
Richardson, Thomas H., Lexington, N. C. Cleaning apparatus. No. 1,343,644; June 15; v. 275; p. 515.
Richenbacher, Adolph. (See Winger, S. C., and Richenbacher.)
Richmond, William U., Madison, Wis. Vehicle-frame. No. 1,343,682; June 15; v. 275; p. 522.
Ricker, George E., Fitzgerald, Ga. Electric lamp. No. 1,344,429; June 22; v. 275; p. 734.
Riddell, George H., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Portable sewing-machine head. No. 1,344,718; June 29; v. 275; p. 856.
Riddell, William A., and F. A. G. Pirwitz, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 1,341,823; June 1; v. 275; p. 42.
Riedele, Philip, assignor to United States Spring Company, Inc., Los Angeles, Calif. Bumper. No. 1,345,106; June 29; v. 275; p. 929.
Riedy, Walter L., Houghton, Mich. Gage. No. 1,345,243; June 29; v. 275; p. 956.
Rieg, Bernard E. (See Williams, E. B., and Rieg.)
Riker, Samuel M. (See Kadow, Richard C., assignor.)
Riley, Daniel E., Seattle, Wash. Body-rubbing device. No. 1,345,026; June 29; v. 275; p. 914.
Riley, Elmer, and C. F. Yuncker, Dodge City, Kans. Rack for holding cooky-boxes. No. 1,345,244; June 29; v. 275; p. 956.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,341,675; June 1; v. 275; p. 12.
Riley, Willis L., Mellen, Wis. Steam-superheater. No. 1,344,211; June 22; v. 275; p. 690.
Rimailho, Emile, assignor to Compagnie Des Forges et Acleries De La Marine et D'Homecourt, Paris, France. Gun-carriage. No. 1,345,245; June 29; v. 275; p. 956.
Rimailho, Emile, assignor to Compagnie Des Forges et Acleries De La Marine et D'Homecourt, Paris, France. Gun-carriage. No. 1,345,246; June 29; v. 275; p. 956.
Rinck, Charles, Cincinnati, Ohio. Bake-oven. No. 1,345,107; June 29; v. 275; p. 929.
Rinman, Erick L., Djursholm, Sweden. Retting fibrous substances. No. 1,344,719; June 29; v. 275; p. 856.
Rippe, August B., Salt Lake City, Utah. Detachable device for operating awning-winches. No. 1,345,027; June 29; v. 275; p. 914.
Ripsch, Charles W., J. C. Dawley, and C. D. Derby, assignors to The Joyce-Cridland Company, Dayton, Ohio. Lifting-jack. No. 1,344,117; June 22; v. 275; p. 672.
Rivett Lathe and Grinder Company. (See Halstead, Frederick H., assignor.)
Rizzuto, James, New Orleans, La. Rail-joint. No. 1,342,228; June 1; v. 275; p. 121.
Road-A-Meter Company. (See Castner, William H., assignor.)
Roades, Weslie M., Okmulgee, Okla. Casing-head. No. 1,343,477; June 15; v. 275; p. 481.
Roan, Harry A., Brooking, Saskatchewan, Canada. Steering device. No. 1,343,062; June 8; v. 275; p. 337.
Robbins, Orlando B. Bridgeport, Conn. Combination tool-box and sawhorse. No. 1,345,247; June 29; v. 275; p. 957.
Roberson, S. Denver, St. Louis, Mo. Street-indicator. No. 1,342,394; June 1; v. 275; p. 152.
Robert, August, assignor to C. L. Polanco, Coatepec, Veracruz, Mexico. Apparatus for treating coffee. No. 1,341,676; June 1; v. 275; p. 12.
Roberts, Frank, Liverpool, England, and J. M. Giffin, Halifax, Nova Scotia, Canada. Cementitious material for receptacle-closures. No. 1,343,282; June 15; v. 275; p. 444.
Roberts, George C. (See Schmidt, W. A., and Roberts.)
Roberts, James M., near St. Joseph, Mo. Mid-ocean station. No. 1,341,677; June 1; v. 275; p. 13.
Robertson, Alexander C., North Sydney, and F. Volk, Enfield, New South Wales, Australia, assignors to Universal Grinding Machine Company, Reno, Nev. Grinding and polishing lenses. No. 1,343,522; June 15; v. 275; p. 490.
Robertson, Harold H., Sewickley, assignor to Aspromet Company, Pittsburgh, Pa. Built-up roofing. No. 1,343,478; June 15; v. 275; p. 481.
Robeson, William B., *et al.* (See Sarjeant, Alexander J., assignor.)
Robichaux, Sosthene, and C. Paggi, Saratoga, Tex. Pipe-puller. No. 1,342,870; June 8; v. 275; p. 300.
Robinson, Charles G., Buffalo, N. Y., assignor to The Beaver Company. Compound board. No. 1,344,962; June 29; v. 275; p. 902.
Robinson Connector Company, The. (See Robinson, Joseph V., assignor.)
Robinson, James. (See Erskine-Murray, J., and Robinson.)
Robinson, Joseph V., Santa Monica, Calif., assignor to The Robinson Connector Company, Washington, D. C. Automatic train-pipe connector. (Reissue.) No. 14,873; June 1; v. 275; p. 156.
Roblin, Brock R., assignor to Wayne Specialty Manufacturing Corporation, Rochester, N. Y. Key-ring holder. No. 1,341,930; June 1; v. 275; p. 62.
Roby, Marion S., Kenton, Ohio. Valve. No. 1,345,248; June 29; v. 275; p. 957.
Rockola, Arthur E., Sandford Deen, Saskatchewan, Canada. Grain-pickler. No. 1,344,148; June 22; v. 275; p. 678.
Rockwell & Company. (See Collett, Frederick W. H., assignor.)
Roden, Herman N., Milwaukee, Wis. Buckle. No. 1,344,652; June 29; v. 275; p. 843.
Rodenbur, John P., Duluth, Minn. Signal-carrying case. No. 1,344,564; June 22; v. 275; p. 761.
Rodger Ballast Car Company. (See Nelkirk, John O., assignor.)

Rodriguez, Eloy, Fajardo, Porto Rico. Double-acting high-pressure pump. No. 1,342,719; June 8; v. 275; p. 269.

Roe, Alliott V., Hamble, Southampton, England. Controlling-gear for aircraft. No. 1,343,850; June 15; v. 275; p. 556.

Roe, Harry H., Pretoria, South Africa. Lock for meters, &c. No. 1,343,851; June 15; v. 275; p. 556.

Roe, Noble H., Marceline, Mo. Rail-joint. No. 1,341,931; June 1; v. 275; p. 63.

Roemer, Arthur, Chicago, Ill., assignor to Roemer Manufacturing Company. Phonograph-motor. No. 1,343,584; June 15; v. 275; p. 503.

Roemer Manufacturing Company. (See Roemer, Arthur.)

Rogers, George D., Cleveland, Ohio. High-tension discharge apparatus. (Reissue.) No. 14,896; June 22; v. 275; p. 772.

Rogers, Manuel L., Johannesburg, Calif. Concentrator. No. 1,343,683; June 15; v. 275; p. 523.

Rozers, Stewart A., Buenos Aires, Argentina. Cable or monorail tramway and vehicles for the same. No. 1,342,926; June 8; v. 275; p. 311.

Rohm & Haas Company. (See Koetble, Arthur, assignor.)

Rohne, Even J., Minneapolis, Minn. Electric heater for steering-wheels. No. 1,345,249; June 29; v. 275; p. 957.

Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit-breaker. No. 1,341,678; June 1; v. 275; p. 13.

Roller-Smith Company. (See Roller, Frank W., assignor.)

Ronda, August C. (See Nagel, Henry W., assignor.)

Roos, Delmar G., Fairfield, Conn., assignor to The Locomobile Company of America, New York, N. Y. Electric switch. No. 1,342,229; June 1; v. 275; p. 121.

Rosche Fluid Transmission, The. (See Rosche, Joseph W., assignor.)

Rosche, Joseph W., assignor to The Rosche Fluid Transmission Company, Minneapolis, Minn. Hydraulic transmission mechanism. No. 1,343,338; June 15; v. 275; p. 454.

Rose, Aaron M., *et al.* (See Sarjeant, Alexander J., assignor.)

Rosedale Foundry & Machine Company. (See Holt, Harris B., assignor.)

Rosemire, Richard W., Walden, N. Y. Hat-frame. No. 1,341,679; June 1; v. 275; p. 13.

Rosenberger, C. V., *et al.* (See Jochumsen, J., and Netcott, assignors.)

Rosenblum, Henry L., New York, N. Y. Machine for laying fabrics. No. 1,343,339; June 15; v. 275; p. 454.

Rosengren, Anders A., Malmö, Sweden. Device for feeding bottles or other vessels to machines intended for treating them. No. 1,344,653; June 29; v. 275; p. 843.

Rosenquist, Anton, assignor of one-fourth to J. Arceneau, Superior, Wis. Ax sheath or carrying case. No. 1,342,395; June 1; v. 275; p. 152.

Ross, David H., Long Beach, Calif. Circuit-controlling switch for headlights. No. 1,341,932; June 1; v. 275; p. 63.

Ross, Fred, Papillion, Nebr. Carbureter control. No. 1,341,762; June 1; v. 275; p. 29.

Ross Manufacturing Company, The. (See Ross, William E., assignor.)

Ross, Oscar A. (See Gerli, P., and Ross.)

Ross, William E., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Dressing-tool. No. 1,343,876; June 15; v. 275; p. 562.

Rosseau, Sidney A., De Witt, Ark. Fluid-pressure coupling. No. 1,343,852; June 15; v. 275; p. 556.

Rotermund, William F., Seattle, Wash. Direction-indicator for vehicles. No. 1,344,654; June 29; v. 275; p. 844.

Roth, August J. (See Macfarland, H. A., and Roth.)

Roth, Charles, Brooklyn, N. Y. Automobile signal device. No. 1,344,355; June 22; v. 275; p. 719.

Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Electrolier. No. 1,344,452; June 22; v. 275; p. 739.

Roth, Peter O., New York, N. Y. Toy airplane. No. 1,344,520; June 22; v. 275; p. 752.

Rottel, Herman W., Milwaukee, Wis. Crank-mounting for ice-machines of the compression type. No. 1,343,407; June 15; v. 275; p. 468.

Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Adjustable gage. No. 1,343,479; June 15; v. 275; p. 481.

Rounds, William H., Sioux Falls, S. D. Demountable rim. No. 1,344,212; June 22; v. 275; p. 691.

Rousseau, Joseph H., and A. Coté, Trois Pistoles, Quebec, Canada. Flour-mill. No. 1,344,453; June 22; v. 275; p. 739.

Routt, Orville L., G. C. McConnell, and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Method of and machine for handling plaster-board. No. 1,342,185; June 1; v. 275; p. 113.

Rowsey Gasoline Process Company. (See Lechtenberg, Leo F., assignor.)

Roy, Edward H., Nashville, Tenn. Ear hand-mirror. No. 1,342,350; June 1; v. 275; p. 144.

Roy, Edward H., Nashville, Tenn. Mouth hand-mirror. No. 1,342,351; June 1; v. 275; p. 144.

Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.) (Reissue.)

Royer, Edwin C., and B. J. Boyle, Philadelphia, Pa. Anchor-bolt. No. 1,344,720; June 29; v. 275; p. 856.

Rozankovich, Thomas, Galveston, Tex. Spring-wheel. No. 1,345,250; June 29; v. 275; p. 957.

Rubes, Ernest, Brooklyn, N. Y. Warning-signal. No. 1,345,251; June 29; v. 275; p. 958.

Rubin, Abraham, New York, N. Y. Hose-coupling. No. 1,343,853; June 15; v. 275; p. 557.

Rubin, Abraham Z., Denver, Colo. Sputum-cup holder. No. 1,345,252; June 29; v. 275; p. 958.

Rubin, Solomon H., Roxbury, Mass. Stethoscope. No. 1,344,655; June 29; v. 275; p. 844.

Ruddy, Michael J., Scranton, Pa. Jumper or crib. No. 1,343,523; June 15; v. 275; p. 491.

Ruden, Henry M., West Haven, Conn. Exercising apparatus. No. 1,344,963; June 29; v. 275; p. 902.

Rudolph, George E., Chicago, Ill. Conveying mechanism for broom-corn machines. No. 1,344,006; June 22; v. 275; p. 651.

Ruebush, Lee L., Sciota, Ill. Trash and sod chopper or cutter. No. 1,341,825; June 1; v. 275; p. 42.

Ruggles, William G., New York, N. Y. Orientator. No. 1,342,871; June 8; v. 275; p. 300.

Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery. No. 1,342,068; June 1; v. 275; p. 89.

Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Purification of battery materials. No. 1,343,585; June 15; v. 275; p. 503.

Ruiz, Carlos, Hartford, Conn. Fraction-adding machine. No. 1,344,190; June 22; v. 275; p. 686.

Rumney, Fred A., Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Eyeleting-machine. No. 1,341,763; June 1; v. 275; p. 30.

Runner, Ward B. (See Neff, F. M., and Runner.)

Runyan, Arthur L., Omaha, Nebr. Wheel-cushion and means for mounting same. No. 1,343,684; June 15; v. 275; p. 523.

Runyan, Arthur L., Omaha, Nebr. Resilient tire-filler. No. 1,343,685; June 15; v. 275; p. 523.

Ruping, Max, Berlin, Germany. Preserving wood. No. 1,345,253; June 29; v. 275; p. 958.

Ruquet, Edward J., Jr., New York, N. Y. Clamp-bolt. No. 1,343,089; June 8; v. 275; p. 343.

Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,341,863; June 1; v. 275; p. 49.

Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,341,864; June 1; v. 275; p. 49.

Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Wear-plate for driving-axle boxes for locomotives. No. 1,345,254; June 29; v. 275; p. 958.

Rushworth, George A. W., Willington, Manchester, England. Self-inking printing-stamp. No. 1,345,255; June 29; v. 275; p. 958.

Russ Company, The. (See Joslin, Charles T., assignor.)

Russ Company, The. (See Schutt, Theodore H., assignor.)

Russel, Albert W., assignor to Russel Motor Axle Company, Detroit, Mich. Vehicle-axle. No. 1,344,150; June 22; v. 275; p. 679.

Russel Motor Axle Company. (See Russel, Albert W., assignor.)

Russell, Guy M., Rochester, assignor to American Piano Company, New York, N. Y. Pneumatic pump. No. 1,343,004; June 8; v. 275; p. 326.

Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Making blowpipe-tips. No. 1,344,964; June 29; v. 275; p. 902.

Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Co., Chicago, Ill. Car-roof. No. 1,342,510; June 8; v. 275; p. 228.

Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,344,824; June 29; v. 275; p. 877.

Russell, William E., Akron, Ohio. Elastic vehicle-tire. No. 1,345,256; June 29; v. 275; p. 958.

Rust, John, Kalamazoo, Mich. Adjustable bed. No. 1,343,985; June 22; v. 275; p. 647.

Rutherford, John A., Richmond, Va. Center-slot steel furniture. No. 1,342,030; June 1; v. 275; p. 82.

Rutherford, Thomas J., Oklahoma, Okla. Oil-tank. No. 1,343,480; June 15; v. 275; p. 481.

Ruthven, Arthur T., Kansas City, Mo. Well-plugging apparatus. No. 1,342,927; June 8; v. 275; p. 311.

Ruzicka, Frank, Chicago, Ill. Shade and curtain-pole bracket. No. 1,342,230; June 1; v. 275; p. 122.

Ryan Car Company, The. (See Ryan, William M., assignor.)

Ryan, Joseph F., Chicago, Ill. Clutch-controlling mechanism. No. 1,342,762; June 8; v. 275; p. 278.

Ryan, Lural S. (See Mason, W. B., and Ryan.)

Ryan, William M., Chicago, Ill., assignor to The Ryan Car Company. Subsill and draft-arm. No. 1,345,257; June 29; v. 275; p. 959.

Ryan, William M., Chicago, Ill., assignor to The Ryan Car Company. Car-underframing. No. 1,345,258; June 29; v. 275; p. 959.

Saalmann, Ernst R. (See Ischinger, Eric, assignor.)

Sabin, Herbert B., and O. C., Cleveland Heights, Ohio. Device for applying glazing compounds and the like. No. 1,343,408; June 15; v. 275; p. 468.

Sabin, Orrin C. (See Sabin, Herbert B., and O. C.)

Sacks, Bernard. (See Goldfarb, N. J., and Sacks.)

Safe-Cabinet Company, The. (See Dick, R. H., and Wolters, assignors.)

Safety Burglar Alarm Co. (See Jacobson, Ole, assignor.)

Safety Mail Crane Company. (See Livesay, Everett G., assignor.)

Sahr, Frank, Delaware, Ohio. Shoe-heel. No. 1,344,356; June 22; v. 275; p. 719.

Sairanen, Ernest, Minneapolis, Minn. Combined automobile and motor-boat. No. 1,344,317; June 22; v. 275; p. 712.

Sakai Kako Celluloid Kwaisha, Ltd. (See Yanagihara, Kichibei, assignor.)

Salerno, Ferdinando G., Chicago, Ill. Depositing-machine. No. 1,342,598; June 8; v. 275; p. 246.

Saltsman, Joseph H., Cleveland, Ohio. Means for draining marshy and swampy land. No. 1,344,656; June 29; v. 275; p. 844.

Saltzman, Joseph G., Brooklyn, N. Y., assignor to Acoustiscope Corporation. Motion-picture and sound-reproducing apparatus. No. 1,341,933; June 1; v. 275; p. 63.

Saltzman, Melville J., Alvada, Ohio. Power-transmission device. No. 1,342,649; June 8; v. 275; p. 254.

Samotej, John, New York, assignor of one-half to W. Samotej, Brooklyn, N. Y. Manufacture of threadgages. No. 1,344,607; June 22; v. 275; p. 770.

Samotej, Witold. (See Samotej, John, assignor.)

Samson, Abe, Cedarhurst, N. Y. Spark-plug. No. 1,344,721; June 29; v. 275; p. 856.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Device for forming grooves in sound-records. No. 1,342,872; June 8; v. 275; p. 300.

Sanderson, William, Conneautville, Pa. Hoisting apparatus for vehicles. No. 1,343,283; June 15; v. 275; p. 444.

Sands, Holton E. (See Sherwen, Peter, assignor.)

Sandstrom, Barney, Sultana, Calif. Land-scraper or leveling-machine. No. 1,343,159; June 8; v. 275; p. 357.

Sandstrom, Theodore, Indianapolis, Ind. Trailer for motor-driven vehicles. No. 1,343,790; June 15; v. 275; p. 544.

Sang, Charley, Castroville, Calif. Potato-picker. No. 1,343,586; June 15; v. 275; p. 503.

Sangoff, Peter, Quincy, Mass. Ship-protector. No. 1,344,151; June 22; v. 275; p. 679.

San Pablo Oil Mills, Limited. (See McCord, John D., assignor.)

Santa Emma, Pasquale, Venice, Calif. Cornet-mute. No. 1,342,846; June 8; v. 275; p. 295.

Sanwo, Katsujiro, Fresno, Calif. Tray-piling machine. No. 1,342,463; June 8; v. 275; p. 219.

Sargent & Company. (See Voight, Henry G., assignor.)

Sargent, Frederick, Chicago, Ill. Expansion connection. No. 1,342,133; June 1; v. 275; p. 102.

Sarjeant, Alexander J., assignor of one-fourth to W. B. Robeson and one-fourth to A. M. Rose, Port Huron, Mich. Apparatus for applying and removing hose-couplings, nipples, bands, &c. No. 1,342,763; June 8; v. 275; p. 278.

Satre, John. (See Paul, Louis, assignor.)

Satterlee, Charles H., Danville, Ill. Brake. No. 1,342,352; June 1; v. 275; p. 144.

Saucke, Herman, New York, N. Y. Pipe-fitting. No. 1,342,825; June 8; v. 275; p. 291.

Saunders, Bertram H. (See Taylor, C., and Saunders.)

Saunders, Clarence R. (See Alexander, George D., assignor.)

Saurage, James R., Baton Rouge, La. Automobile-signal. No. 1,345,259; June 29; v. 275; p. 959.

Sauvage, William H., Flushing, N. Y. Brake mechanism. No. 1,342,599; June 8; v. 275; p. 246.

Sauvage, William H., Flushing, N. Y. Hand-brake. No. 1,343,005; June 8; v. 275; p. 327.

Sauvage, William H., Buffalo, N. Y. Hand-brake. No. 1,343,006; June 8; v. 275; p. 327.

Sauvage, William H., Flushing, N. Y. Hand-brake. No. 1,343,007; June 8; v. 275; p. 327.

Sauvage, William H., Buffalo, N. Y. Hand-brake. No. 1,343,008; June 8; v. 275; p. 327.

Sauvage, William H., Flushing, assignor to Atlantic Hand Brake Corporation, Buffalo, N. Y. Hand-brake. No. 1,343,009; June 8; v. 275; p. 327.

Savings Investment and Trust Company, executors, *et al.* (See Aylsworth, J. W., and Aiken.)

Sawders, Frank P., and J. G. Murray, Pittsburgh, Pa. Muller. No. 1,342,464; June 8; v. 275; p. 219.

Sawyer, Marion B. (See Hanson, H. C., and Sawyer.)

Scallone, Charles C. (See Frazer, J. C. W., and Scallone.)

Scanlan, Joseph, Brooklyn, N. Y. Velocipede. No. 1,342,720; June 8; v. 275; p. 269.

Scarborough, George G., Girdletree, Md. Heating-stove. No. 1,343,645; June 15; v. 275; p. 515.

Scarborough, Henry. (See Doostal, John R., assignor.)

Scarborough, Henry. (See Steere, Clarence E., assignor.)

Scarl, John, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J. Making spark-plug insulators. No. 1,343,686; June 15; v. 275; p. 523.

Schaaf, Albert E., and S. W. Mills, Indianapolis, Ind. Tractor. No. 1,342,764; June 8; v. 275; p. 278.

Schaaf, Albert E., and S. W. Mills, assignors to Highway Tractor Company, Indianapolis, Ind. Tractor. No. 1,342,765; June 8; v. 275; p. 279.

Schaanning, Peder C., Vestre Holmen, near Christiania, Norway. Grinding apparatus for the manufacture of wood-pulp. No. 1,342,231; June 1; v. 275; p. 122.

Schade, John, assignor to National Bank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,342,766; June 8; v. 275; p. 279.

Schaefer, August, assignor to Northwest Process Company, Portland, Oreg. Apparatus for recovering volatile and fermentable matter from liquids. No. 1,342,721; June 8; v. 275; p. 269.

Schaefer, Frederick, Pittsburgh, Pa. Brake-pin. No. 1,344,596; June 22; v. 275; p. 767.

Schamberg, Morris L., New York, N. Y. Attachment for faucets. No. 1,342,000; June 1; v. 275; p. 75.

Schaufelberger, Albert, Paris, France. Circular weft-winding machine. No. 1,343,481; June 15; v. 275; p. 482.

Schedler, Arnold, Manchester, England, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs capable of being diazotized and making same. No. 1,342,134; June 1; v. 275; p. 103.

Scheick, Edward, Arlington, N. J. Sheet-guide for folding-machines. No. 1,343,791; June 15; v. 275; p. 544.

Schell, Theodore, assignor to American Steel Products Co., Macomb, Ill. Poultry-fountain and heater therefor. No. 1,343,010; June 8; v. 275; p. 327.

Schenk, John, New York, N. Y. Window-shade. No. 1,343,284; June 15; v. 275; p. 444.

Scherer, Jacob. (See Blain, G. A., and Scherer.)

Scheyer, Emanuel. (See Bersin, A., and Scheyer.)

Schiff, Robert. (See Meyer, L., and Schiff.)

Schillberg, Melker W., Stratford township, Fairfield county, Conn. Tool-holder. No. 1,342,600; June 8; v. 275; p. 246.

Schilling, Frederick, Sr., Seattle, Wash. Folding tent. No. 1,345,168; June 29; v. 275; p. 930.

Schlegel, Mathew, Portland, Oreg. Folding chair. No. 1,342,650; June 8; v. 275; p. 255.

Schleicher, Henry M. (See Hayward, C. R., Stillman, and Schleicher.)

Schlerf, Ernest. (See Schram, Oscar H., assignor.)

Schlesinger, William A., Denver, Colo., assignor, by mesne assignments, to The Cold Light Manufacturing Company Inc. Luminous indicating device and making same. No. 1,342,767; June 8; v. 275; p. 279.

Schley, Frederick L., Brooklyn, N. Y. Furniture for forming paper-box dies and for use in type compositions. No. 1,344,657; June 29; v. 275; p. 844.

Schlicker, Herman C., Milwaukee, Wis. Drink-mixing device. No. 1,344,565; June 22; v. 275; p. 761.

Schmick, Henry J., Lock Haven, Pa. Gear-cutting machine. No. 1,345,028; June 29; v. 275; p. 914.

Schmidt, Charles D. (See Bowser, Frank A., assignor.)

Schmidt, Charles J. (See Simpson, E. G., Schmidt, and Carstens.)

Schmidt, Christ, Monroe, Wash. Safety-crank. No. 1,344,521; June 22; v. 275; p. 752.

Schmidt, Edward J., Louisville, Ky. Pressure-regulator. No. 1,343,160; June 8; v. 275; p. 357.

Schmidt, Karl, Neuruppin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Chemical fire-extinguisher. No. 1,342,768; June 8; v. 275; p. 279.

Schmidt, Lawrence S., Pittsburgh, Pa. Pulverized-fuel feeder. No. 1,342,135; June 1; v. 275; p. 103.

Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Means for separating suspended matter from gases. No. 1,343,285; June 15; v. 275; p. 444.

Schmidt, Walter A., and G. C. Roberts, assignors to International Precipitation Company, Los Angeles, Calif. Apparatus for separating suspended particles from gases. No. 1,343,482; June 15; v. 275; p. 482.

Schmidt, Wilhelm, Cassel-Wilhelmshöhe, Germany, assignor, by mesne assignments, to Locomotive Superheater Company. Means for cooling the pistons of internal-combustion engines. No. 1,344,090; June 22; v. 275; p. 667.

Schmiederer, Joseph, St. Louis, Mo. Loading and unloading device. No. 1,342,826; June 8; v. 275; p. 291.

Schmitte, Fred, Clayton, N. Y. Shingle. No. 1,343,792; June 15; v. 275; p. 544.

Schmitz, Charles A. (See Bowman, Edwin L., assignor.)

Schmitz, Richard, Chicago, Ill. Clutch. No. 1,344,597; June 22; v. 275; p. 767.

Schmitz, Richard, Chicago, Ill. Brake. No. 1,344,598; June 22; v. 275; p. 768.

Schneible, Joseph, Chicago, Ill. Dealcoholized fermented beverage. No. 1,343,587; June 15; v. 275; p. 503.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Cylinder for internal-combustion engines. No. 1,343,161; June 8; v. 275; p. 357.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for setting time-fuses. No. 1,343,588; June 15; v. 275; p. 503.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Removable tire for the wheels of gun-carriages and other vehicles; No. 1,343,936; June 22; v. 275; p. 638.

Schneider, Jean J. M. A. E., Paris, France. Construction of hinge for connecting the warping planes to the wings or fixed planes in aircraft. No. 1,342,353; June 1; v. 275; p. 144.

Schneider, John Elizabeth, N. J. Switch. No. 1,343,793; June 15; v. 275; p. 545.

Schneider, Peter, Oswego, N. Y. Car-door lock. No. 1,342,465; June 8; v. 275; p. 219.

Schneider, Peter, Oswego, N. Y. Car-door hanger. No. 1,344,454; June 22; v. 275; p. 739.

Schoenborn, Gustav C., assignor, by mesne assignments, to Manufacturers Machine Products Co., Detroit, Mich. Tool-holder. No. 1,341,934; June 1; v. 275; p. 63.

Schoenkerman, Bern S., Milwaukee, Wis. Tablet-press. No. 1,344,091; June 22; 275; p. 667.

Scholes, Edmond P., San Jose, assignor of one-fifth to A. Golden, one-fifth to J. Martin, one-fifth to C. Leavell, and one-fifth to W. H. Johnson, Santa Clara county, Calif. Railway-switch. No. 1,343,483; June 15; v. 275; p. 482.

Schoonmaker, Arthur, Baton Rouge, La. Bed attachment. No. 1,342,354; June 1; v. 275; p. 144.

Schrader's, A., Son. (See Volckhansen, Julius, assignor.)

Schram, Oscar H., assignor of one-half to E. Schlerf, Oshkosh, Wis. Davenport. No. 1,344,825; June 29; v. 275; p. 877.

Schram, Oscar H., assignor of one-half to E. Schlerf, Oshkosh, Wis. Davenport. No. 1,344,928; June 29; v. 275; p. 896.

Schreiber, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Water-heating device. No. 1,343,937; June 22; v. 275; p. 638.

Schroeder, Anthony, Cleveland, Ohio. Metal container. No. 1,344,455; June 22; v. 275; p. 739.

Schroeder, Anthony, Cleveland, Ohio. Metallic container. No. 1,344,456; June 22; v. 275; p. 740.

Schroeder, Anthony, Cleveland, Ohio. Bung for metal barrels and the like. No. 1,344,457; June 22; v. 275; p. 740.

Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Dry cell. No. 1,342,001; June 1; v. 275; p. 76.

Schultz, George H. (See Isphording, R. C., and Schultz.)

Schulz, Carl F., Brooklyn, N. Y. Carbureter for gasolene-engines. (Reissue.) No. 14,880; June 8; v. 275; p. 363.

Schulz, Edward H., U. S. Army. Diaphragm blast-meter. No. 1,344,722; June 29; v. 275; p. 856.

Schumaker, Lorraine J., assignor to The American Pretzel Company, Philadelphia, Pa. Container. No. 1,342,069; June 1; v. 275; p. 89.

Schurr, Henry, Philadelphia, Pa. Car-fender. No. 1,344,213; June 22; v. 275; p. 691.

Schussler, John H., assignor to Acme Printing Appliance Co., Chicago, Ill. Inking-roll truck for printing-presses. No. 1,342,355; June 1; v. 275; p. 145.

Schustarich, George, Cicero, Ill. Indicator-holder. No. 1,341,936; June 1; v. 275; p. 64.

Schutt, Theodore H., assignor to The Russ Company, Cleveland, Ohio. Switch-operating mechanism. No. 1,341,764; June 1; v. 275; p. 30.

Schutter, Fred H., Pleasant Valley, Iowa. Planter. No. 1,343,286; June 15; v. 275; p. 444.

Schutze, Oscar G., Forestville, near Adelaide, South Australia, Australia. Construction of ophthalmic mountings. No. 1,343,090; June 8; v. 275; p. 343.

Schwarcman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Food preparation and making same. No. 1,342,827; June 8; v. 275; p. 291.

Schwarz, Elmer H., Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company. Electric starting and generating system. No. 1,343,409; June 15; v. 275; p. 468.

Schwartz, Walter M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Rotary drier. No. 1,345,260; June 29; v. 275; p. 959.

Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Magneto. No. 1,344,723; June 29; v. 275; p. 856.

Schweitzer & Conrad. (See Schweitzer, E. O., and Conrad, assignors.) (Reissue.)

Schweitzer, Edmund O., Chicago, Ill. Overload-circuit-breaking apparatus. (Reissue.) No. 14,881; June 8; v. 275; p. 363.

Schweitzer, Edmund O., Chicago, and N. J. Conrad, Wilmette, assignors to Schweitzer & Conrad, Chicago, Ill. Means for extinguishing arcs. (Reissue.) No. 14,897; June 22; v. 275; p. 772.

Schweyer, Daniel H., Easton, Pa. Train-controlling apparatus. No. 1,342,873; June 8; v. 275; p. 300.

Scott, Dudley H., Cleveland, Ohio. Ice-tractor. No. 1,343,687; June 15; v. 275; p. 523.

Scott, Herman W., Gardiner, Me. Combination roof-framing tool. No. 1,342,232; June 1; v. 275; p. 122.

Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Throttle-controlling apparatus. No. 1,343,750; June 15; v. 275; p. 536.

Scott, Lewis L., St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company. Cloth-mensuring machine. (Reissue.) No. 14,898; June 22; v. 275; p. 772.

Scott-Snell, Charles, Wimbledon, assignor of one-half to D. Anderson, Gravesend, Kent, England. Gas-fire. No. 1,343,484; June 15; v. 275; p. 483.

Scranton, Henry O., Jeanerette, La. Topping and stripping machine. No. 1,343,589; June 15; v. 275; p. 504.

Scrivenor, Arthur. (See Lee, Robert C., assignor.)

Scullin Steel Co. (See Doerr, Harry E., assignor.)

Seabold, Walter G., assignor to Illinois Glass Company, Alton, Ill. Carboy-case. No. 1,343,340; June 15; v. 275; p. 455.

Searle, Herbert H., *et al.* (See Mentzer, Claude E., assignor.)

Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,345,029; June 29; v. 275; p. 915.

Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)

Sears, Sydney L., Lyndhurst, N. J., assignor to United Bottle Machinery Co., New York, N. Y. Glass-discharging device. No. 1,343,183; June 8; v. 275; p. 361.

Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Change-speed mechanism. No. 1,342,928; June 8; v. 275; p. 311.

Sebring, Theosis C., Kansas City, Mo. Heating apparatus. No. 1,341,723; June 1; v. 275; p. 21.

Sedgke & Kohlhaus Mfg. Co. (See Holy, James R., assignor.)

Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition and making same. No. 1,342,601; June 8; v. 275; p. 246.

Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition. No. 1,342,602; June 8; v. 275; p. 246.

Seel, Paul C., assignor to Eastman Kodak Company, Rochester N. Y. Cellulose-acetate composition. No. 1,342,603; June 8; v. 275; p. 246.

Seeley, Fayette M., Lansing, Mich. Propelling device for power lawn-mowers. No. 1,345,109; June 29; v. 275; p. 930.

Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,344,063; June 22; v. 275; p. 663.

Sefton Manufacturing Corporation. (See Potter, Earl C., assignor.)

Segura, Julian, New York, N. Y. Solder for aluminum. No. 1,344,566; June 22; v. 275; p. 761.

Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,186; June 1; v. 275; p. 113.

Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,466; June 8; v. 275; p. 220.

Seidel, William, Chicago, Ill. Tire for wheels. No. 1,344,773; June 29; v. 275; p. 867.

Seiss, George J., Toledo, Ohio. Mechanically-actuated horn for bicycles, boats, &c. No. 1,344,724; June 29; v. 275; p. 857.

Self Change Making Drawer Company. (See Bachardy, S. J., and Kiss, assignors.)

Selick, David W., Chicago, Ill. Counterbalance construction for hinged covers. No. 1,345,261; June 29; v. 275; p. 959.

Sellew, Roland W., Middletown, assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-lapping machine. No. 1,343,011; June 8; v. 275; p. 328.

Selwacki, Ben, Kulpmont, Pa. Shade-holder. No. 1,342,070; June 1; v. 275; p. 90.

Selz, Andrew J., New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del. Paper bottle. No. 1,342,769; June 8; v. 275; p. 279.

Selz, Andrew J., New Rochelle, N. Y., assignor to Paper Bottle and Can Company, Inc., Wilmington, Del Paper bottle. No. 1,342,770; June 8; v. 275; p. 279.

Seneca Camera Mfg. Co. (See Goddard, Joseph, assignor.)

Sengebusch, Hans, Chicago, Ill. Electric safety-razor. No. 1,343,012; June 8; v. 275; p. 328.

Sennett, Walter C., Portland, Me. Automobile-signal. No. 1,344,152; June 22; v. 275; p. 679.

Senseman, Everett L., and A. P. Ziegler, Shilo Springs, Ohio, assignors to E. L. Senseman, Dayton, Ohio. Playground apparatus. No. 1,344,725; June 29; v. 275; p. 857.

Serrell, John J. (See Smith, R. A., and Serrell.)

Service Caster & Truck Company, The. (See Chesnutt, John L., assignor.)

Sessions, Edson O., Chicago, Ill. Locking-switch. No. 1,342,972; June 8; v. 275; p. 319.

Sessions, Frank L., Lakewood, Ohio. Float-valve mechanism. No. 1,342,874; June 8; v. 275; p. 301.

Sevczov, Georgi, Ralphton, Pa. Revolving vending-booth. No. 1,343,794; June 15; v. 275; p. 545.

Seward Trunk and Bag Company. (See Dunn, W. W., and Beasley, assignors.)

Sexton, James P., Los Angeles, Calif. Making lath or the like. No. 1,344,826; June 29; v. 275; p. 877.

Seymour, Benjamin F., assignor to The International Army and Navy Equipment Company, Denver, Colo. Extensible mast. No. 1,342,828; June 8; v. 275; p. 291.

Shackelford, Stanley H., Washington, D. C. Safety-zone indicator. No. 1,343,524; June 15; v. 275; p. 491.

Shafer, Frank B., Northville, Mich., assignor, by mesne assignments, to J. A. Kelly, Chicago, Ill. Chemical-closet. No. 1,343,287; June 15; v. 275; p. 444.

Shafer, Homer R., Detroit, Mich. Resilient wheel. No. 1,343,986; June 22; v. 275; p. 647.

Shafer, James N., Denver, Colo. Multiple-compartment inner tube for automobile and other tires. No. 1,341,936; June 1; v. 275; p. 64.

Shafer, John C., Edina, Mo. Tap and faucet. No. 1,344,827; June 29; v. 275; p. 877.

Shallcross, Wilmer M., Milwaukee, Wis. Motor-controller. No. 1,341,937; June 1; v. 275; p. 64.

Shamberg, Herbert D., New York, N. Y. Manufacture of power plants. No. 1,343,485; June 15; v. 275; p. 483.

Shamp, Carroll C., *et al.* (See Keeley, Charles A., assignor.)

Shank, McConnell, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Terminal seal for storage batteries. No. 1,342,511; June 8; v. 275; p. 228.

Shanks, John N., Spokane, Wash., assignor to Inland Automatic Thrasher and Machinery Company, Limited, Post Falls, Idaho. Feed mechanism for threshing-machines. No. 1,342,574; June 8; v. 275; p. 241.

Sharar, Fred H., Williamsport, Pa. Valve-adjuster. No. 1,343,525; June 15; v. 275; p. 491.

Sharon Hardware Manufacturing Company. (See Piper, George M., assignor.) (Reissue.)

Shaughnessy, Edward J., Brooklyn, N. Y. Towel-cabinet. No. 1,345,262; June 29; v. 275; p. 960.

Shaver, George F., New York, N. Y., assignor to The Hydragas Corporation. Increasing the power of gas-engines. No. 1,343,938; June 22; v. 275; p. 638.

Shaw, Harry, Chicago, Ill. Adjustable stool or chair. No. 1,344,092; June 22; v. 275; p. 668.

Shaw, Harry H., Cambria, Calif. Can-spout. No. 1,342,299; June 1; v. 275; p. 134.

Shaw, James C. (See Melten, J. F., and Shaw.)

Shaw, Levi M., assignor to H. C. Johnson, Glencoe, Ill. Speed-controlling mechanism. No. 1,344,726; June 29; v. 275; p. 857.

Shaw, Levi M., assignor to H. C. Johnson, Glencoe, Ill. Mechanical change-speed appliance. No. 1,344,727; June 29; v. 275; p. 857.

Shea, Christopher A., New York, N. Y. Windshield-cleaner. No. 1,345,330; June 29; v. 275; p. 973.

Shea, John J., Hartford, Conn., assignor to The Hartford Rubber Works Company. Treating vulcanizable plastics. No. 1,343,377; June 15; v. 275; p. 462.

Shearer, John A., Henley Beach, assignor of one-third to R. H. Niehuus, St. Peters, and one-third to S. C. Mellor, Fulham, South Australia, Australia. Machine for making butter. No. 1,343,091; June 8; v. 275; p. 343.

Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Collecting and stapling mechanism. No. 1,343,231; June 15; v. 275; p. 435.

Sheler, John C., and R. B. Austin, Cadillac, Mich. Flexible coupling. No. 1,342,300; June 1; v. 275; p. 135.

Shely, William A., Chicago, Ill. Machine for treating or breaking and scutching hemp or other fibrous material. No. 1,342,771; June 8; v. 275; p. 280.

Shely, William A., Chicago, Ill. Machine for breaking and scutching hemp or other fibrous material. No. 1,342,772; June 8; v. 275; p. 280.

Shepard, Stanley J., Porterville, Calif. Means for securing heads to handles of tools. No. 1,342,929; June 8; v. 275; p. 311.

Sherman, John A. (See McCallum, Edgar, assignor.)

Sherman, Samuel C., Anacortes, Wash. Beverage-mixer. No. 1,345,263; June 29; v. 275; p. 960.

Sherwen, Peter, assignor of one-half to H. E. Sands, Vancouver, British Columbia, Canada. Air-regulator for ventilators or heaters. No. 1,343,162; June 8; v. 275; p. 357.

Sherwin, Frank, Brookings, S. D. Agricultural implement. No. 1,341,724; June 1; v. 275; p. 22.

Sherwin-Williams Company. (See Holton, Edward C., assignor.) (Reissue.)

Shillito, James T., St. Louis, assignor to Loose Wiles Biscuit Company, Kansas City, Mo. Cake-cutting machine. No. 1,342,875; June 8; v. 275; p. 301.

Shinn, George C., Vancouver, Wash. Heater for intake-manifolds. No. 1,343,092; June 8; v. 275; p. 343.

Shipley Construction and Supply Company. (See Stair, William S., assignor.)

Shirer, George A., Pittsburgh, Pa. Artificial hand. No. 1,344,357; June 22; v. 275; p. 720.

Shirley, Henry K., deceased, Marianna, Fla.; M. Shirley, administratrix. Collapsible shipping box or crate. No. 1,345,264; June 29; v. 275; p. 960.

Shirley, Mattie, administratrix. (See Shirley, Henry K.)

Shively, Greene, Millmont, Pa. Article-holder. No. 1,344,728; June 29; v. 275; p. 857.

Shivley, Lewis D., Kokomo, Ind. Compound. No. 1,344,658; June 29; v. 275; p. 845.

Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Production of aluminum nitrid and the like. No. 1,344,153; June 22; v. 275; p. 679.

Shoemaker, Robert J., Topeka, Kans. Bearing element and manufacturing same. No. 1,341,938; June 1; v. 275; p. 64.

Shogren, Charles A., Chicago, Ill. Metal-frame screen. No. 1,344,093; June 22; v. 275; p. 668.

Shoner, John, assignor to The Chase Companies, Inc., Waterbury, Conn. Making installation-loops for electric fixtures. No. 1,342,071; June 1; v. 275; p. 90.

Shongo, Daniel E., Lake Katrine, N. Y. Refrigerator or like receptacle. No. 1,343,688; June 15; v. 275; p. 523.

Shook, Roy B., Dayton, Ohio. Pipe-wrench. No. 1,342,356; June 1; v. 275; p. 145.

Shoopman, Andrew, Vera, Tex. Quick-adjustable wrench. No. 1,344,154; June 22; v. 275; p. 679.

Shoultz, Fred R., Lansing, Mich. Chick-feeder. No. 1,343,093; June 8; v. 275; p. 344.

Shoup, Clement A., Toledo, Ohio. Endless razor-strop and cabinet. No. 1,344,522; June 22; v. 275; p. 753.

Shreiner, Elmer E., Brooklyn, N. Y. Hinge for eyeglass or spectacle frames. No. 1,342,973; June 8; v. 275; p. 320.

Shriver, Harry T. (See Atkins, Earl F., assignor.)

Shriver, Harry T., Llewellyn Park, West Orange, N. J. Filter-press. No. 1,342,829; June 8; v. 275; p. 292.

Shurloc Elevator Safety Co. Inc. (See Dunford, William T., assignor.)

Sicard, Hugh C., Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y. Production of low-carbon ferrochrome. No. 1,341,939; June 1; v. 275; p. 64.

Sickler, Raymond R., Wausau, Wis. Feed-box. No. 1,344,094; June 22; v. 275; p. 668.

Sickles, Myra B., Alpine, N. J. Shoe-lace tip. No. 1,341,940; June 1; v. 275; p. 64.

Siemens & Halske, A. G. (See Grabe, Georg, assignor.)

Simantel, John L., Sterling, Ill. Animal-catcher. No. 1,344,828; June 29; v. 275; p. 877.

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,343,232; June 15; v. 275; p. 435.

Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable V-block and the like for magnetic chucks. No. 1,343,751; June 15; v. 275; p. 536.

Simmons, L. C., *et al.* (See Jochumsen, J., and Netcott, assignors.)

Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Block-resurfacing mechanism. No. 1,341,765; June 1; v. 275; p. 30.

Simon, Albert B., San Francisco, Calif. Fabric-frame. No. 1,345,030; June 29; v. 275; p. 915.

Simonds, Samuel W., *et al.* (See McManama, John W., assignor.)

Simplex Auto Wheel Company, The. (Reissue.) (See Black, William A., assignor.)

Simpson, Emory G., assignor to Ternstedt Manufacturing Co., Detroit, Mich. Curtain-roller. No. 1,344,358; June 22; v. 275; p. 720.

Simpson, Emory G., C. J. Schmidt, and F. P. Carstens, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window-lifting apparatus. No. 1,343,410; June 15; v. 275; p. 468.

Simpson, William D., Columbia, S. C. Nut-marking machine. No. 1,344,007; June 22; v. 275; p. 651.

Simpson, William F., assignor to C. Kehr, trustee, Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,344,155; June 22; v. 275; p. 680.

Sims, Edward J., Brooklyn, N. Y. Accommodation-ladder for marine vessels. No. 1,343,094; June 8; v. 275; p. 344.

Sims, Jefferson D. (See Cook, L. P., and Sims.)

Sinderson, John B., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Warp-clamps. No. 1,342,876; June 8; v. 275; p. 301.

Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)

Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)

Singer Manufacturing Company, The. (See Lee, A. E., and Milsted, assignors.)

Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)

Singleton, Thomas E., Savannah, Tenn. Wire-stretcher. No. 1,345,265; June 29; v. 275; p. 960.

Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. End construction for railway-cars. No. 1,342,604; June 8; v. 275; p. 246.

Sjoberg, Sidney T., Chicago, assignor to Whiting Foundry Equipment Company, Harvey, Ill. Counterbalanced crane. No. 1,344,659; June 29; v. 275; p. 845.

S. K. F. Administrative Company. (See Palmgren, Nils A., assignor.)

Skala, Yaro, Cleveland, Ohio. Hood-support for automobiles. No. 1,344,095; June 22; v. 275; p. 668.

Skedgell, David E., Fall River, Mass., assignor to Draper Corporation, Hopedale, Mass. Cushion-spring shuttle-check. No. 1,341,941; June 1; v. 275; p. 64.

Skelton, William S., Evansville, Ind. Exhibitor. No. 1,343,646; June 15; v. 275; p. 515.

Skibinski, Adam, Greenfield, Mass. Tool-holder. No. 1,342,031; June 1; v. 275; p. 82.

Skilbred, Lars, Dorchester, Wis. Article-carrier support for automobiles. No. 1,344,729; June 29; v. 275; p. 858.

Skinderviken, Johan, assignor of one-half to O. Eklo, Chicago, Ill. Cigar holder and saver. No. 1,342,512; June 8; v. 275; p. 229.

Skinner, Fred A. C., St. Louis, Mo. Air-heating furnace. No. 1,343,752; June 15; v. 275; p. 536.

Skinner, Willard A. (See Reuter, E. T., and Skinner.)

Skublin, Charles P., assignor to W. A. Adams, Detroit, Mich. Gas-engine. No. 1,345,266; June 29; v. 275; p. 961.

Slawinski, Zigmunt, Plainfield, N. J. Skate. No. 1,342,773; June 8; v. 275; p. 281.

Sloane, Nathan, Brooklyn, N. Y. Handle for handbags. No. 1,342 301; June 1; v. 275; p. 135.

Slocum, Albert, Milwaukee, Wis. Apparatus for sizing and shaping hats and the like. No. 1,343,887; June 15; v. 275; p. 564.

Slocum, George E., Cleveland, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for electric motors. No. 1,343,411; June 15; v. 275; p. 469.

Sloper, Thomas, Devizes, England. Beaded strip of metal and rolling same. No. 1,343,753; June 15; v. 275; p. 537.

Slye, John Q., and S. H. Bishop, Washington, D. C. Support for moth-repellent holders. No. 1,344,318; June 22; v. 275; p. 712.

Small, Kenneth I., New York, N. Y., assignor to G. T. Horton, Chicago, Ill. Tank. No. 1,343,412; June 15; v. 275; p. 469.

Small, Warren. (See La Tour, L., and Munnell, assignors.)

Smith, A. O., Corporation. (See Adams, J. L., Jr., and Welch, assignors.)

Smith, A. O., Corporation. (See Burgess, Edward W., assignor.)

Smith, A. O., Corporation. (See Miller, Henry, assignor.)

Smith, Allen, Jr., San Diego, Calif. Insect-swatter. No. 1,342,974; June 8; v. 275; p. 320.

Smith, Amos H., Brooklyn, assignor to American Bank Note Company, New York, N. Y. Delivery mechanism for printing-machines. No. 1,342,187; June 1; v. 275; p. 113.

Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,513; June 8; v. 275; p. 229.

Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. No. 1,344,730; June 29; v. 275; p. 858.

Smith, Clyde, Chicago, Ill. Nutcracker. No. 1,344,731; June 29; v. 275; p. 858.

Smith, Daniel H., assignor of one-fourth to D. T. Little, Shirley, Ark. Mechanical movements. No. 1,344,732; June 29; v. 275; p. 858.

Smith, Edwin J., London, England. Door-bolt. No. 1,345,031; June 29; v. 275; p. 915.

Smith, Elsie M. (See Smith, Henry C., assignor.)

Smith, Eric M., Keynsham, near Bristol, and A. W. Winsall, Keynsham, England. Chuck for holding drills, reamers, and the like. No. 1,343,795; June 15; v. 275; p. 545.

Smith, Ernest F. (See Hescock, E. N., and Smith.)

Smith, Frederick C., Marion, Ohio. Foot-throttle-controlling mechanism. No. 1,343,378; June 15; v. 275; p. 462.

Smith, George A., Omaha, Nebr. No. 1,343,163; June 8; v. 275; p. 357.

Smith, George A., Omaha, Nebr. Drum-beater. No. 1,343,164; June 8; v. 275; p. 358.

Smith, George H. (See Macnab, J., and Smith.)

Smith, Henrietta B., Charleston, S. C. Snap-fastener device. No. 1,345,267; June 29; v. 275; p. 961.

Smith, Henry C., Clintonville, Conn., assignor of one-half to E. M. Smith, Richmond Hills, N. Y. Cultivator. No. 1,342,302; June 1; v. 275; p. 135.

Smith, Herbert M., Buffalo, N. Y. Tire-support. No. 1,343,526; June 15; v. 275; p. 491.

Smith, James A., Buffalo, N. Y. Flexible-sheet form for soft cuffs. No. 1,342,032; June 1; v. 275; p. 82.

Smith, James E., assignor to Smith and Seper Company, St. Louis, Mo. Whirling seesaw. No. 1,344,965; June 29; v. 275; p. 902.

Smith, James T., Newark, N. J. Leather-press. No. 1,344,214; June 22; v. 275; p. 691.

Smith, Joseph E., Buffalo, N. Y. Clarinet-holder. No. 1,342,136; June 1; v. 275; p. 103.

Smith, Joseph V., Pittsburgh, Pa. Implement-handle. No. 1,342,467; June 8; v. 275; p. 220.

Smith, Kent H., Cleveland, Ohio, Grenade. No. 1,344,733; June 29; v. 275; p. 859.

Smith, Linton B., High Point, N. C. Upholstering apparatus. No. 1,345,268; June 29; v. 275; p. 961.

Smith, Marion A., Salt Lake City, assignor to Liberty Beet Topper Company, Salt Lake county, Utah. Beet-topping machine. No. 1,344,966; June 29; v. 275; p. 902.

Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass-annealing furnace. No. 1,342,233; June 1; v. 275; p. 122.

Smith, Oscar, Springfield, Tenn. Demountable rim. No. 1,345,269; June 29; v. 275; p. 961.

Smith, Oscar A., Cleveland, Ohio. Drain-cock. No. 1,345,032; June 29; v. 275; p. 915.

Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Lamp-dimming socket-switch. No. 1,343,689; June 15; v. 275; p. 524.

Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Heat-dissipating socket-switch. No. 1,343,690; June 15; v. 275; p. 524.

Smith, Reuben S., Milwaukee, Wis. Making curved flanged bars. No. 1,343,647; June 15; v. 275; p. 515.

Smith, Reuben S., Milwaukee, Wis. Magnetic feeding device for flanging-presses. No. 1,343,648; June 15; v. 275; p. 516.

Smith, Robert A., Mahwah, and J. J. Serrell, Elizabeth, assignors to Smith & Serrell, Mahwah, N. J. Flexible coupling device. No. 1,343,413; June 15; v. 275; p. 469.

Smith and Seper Company. (See Smith, James E., assignor.)

Smith & Serrell. (See Smith, R. A., and Serrell, assignors.)

Smith, Theodore M., assignor of one-half to H. Hagenau, New York, N. Y. Educational appliance. No. 1,343,095; June 8; v. 275; p. 344.

Smith, Verna D. (See Smith, William B. and V. D.)

Smith, W. A. (See Bowman, Levi M., assignor.)

Smith, Walter K., Ellwood City, Pa. Tent. No. 1,342,234; June 1; v. 275; p. 122.

Smith, William A., Springfield, Mo. Necktie form and holder. No. 1,344,248; June 22; v. 275; p. 697.

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tools. No. 1,343,649; June 15; v. 275; p. 516.

Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,345,270; June 29; v. 275; p. 961.

Smith, William A., Easton, Pa., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drilling apparatus. No. 1,345,271; June 29; v. 275; p. 962.

Smith, William B. and V. D., Lansing, Mich. Mail-box. No. 1,342,468; June 8; v. 275; p. 220.

Smith, William G. (See Badger, T. N., and Smith.)

Smith, William R. (See Anderson, G. J., and Smith.)

Smith, Wilson G., *et al.* (See Spencer, William H., assignor.)

Smock, Harold E. (See Lewis, C. A., and Smock.)

Smoter, Jan, Conemaugh, Pa. Boiler attachment. No. 1,344,829; June 29; v. 275; p. 878.

Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Furnace. No. 1,344,458; June 22; v. 275; p. 740.

Smythe, S. R., Company, The. (See Smythe, Horace E., assignor.)

Snead & Co. Iron Works, The. (See Macdonald, Harry P., assignor.)

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,342,830; June 8; v. 275; p. 292.

Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,342,831; June 8; v. 275; p. 292.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. No. 1,343,063; June 8; v. 275; p. 338.

Snow, David L., Philadelphia, Pa. Fabric-printing machine. No. 1,342,722; June 8; v. 275; p. 269.

Snow, Isaac, Lawrence, Mass. Shuttle. No. 1,344,734; June 29; v. 275; p. 859.

Snyder, Charles A., Dubuque, Iowa. Safety device for railway-crossings. No. 1,342,002; June 1; v. 275; p. 76.

Snyder, George. (See MacBryde, Louis E., assignor.)

Snyder, Lloyd E., assignor to Eastman Kodak Company, Rochester, N. Y. Film-pack. No. 1,343,590; June 15; v. 275; p. 504.

Snyder, Theophilus F., Delphos, Ohio. Automobile-seat extension. No. 1,342,235; June 1; v. 275; p. 123.

Snyder, William W., Cohoes, N. Y. Vehicle-wheel truck. No. 1,343,650; June 15; v. 275; p. 516.

Sobin, Frank, Coatesville, Pa. Lock. No. 1,343,064; June 8; v. 275; p. 338.

Societa Anonima Italiana Gio. Ansaldo & C. (See Locarni, Vittorio, assignor.)

Societe Anonyme des Anciens Etablissements C. & E. Chapal Freres & Cie. (See Dickerson, Malcolm, assignor.)

Societe Des Moteurs Salmson (Systeme Canton-Unne). (See Postel-Vinay, Pierre J. R., assignor.)

Société du Verre Triplex. (See Mascart, Léon F., assignor.)

Societe Francaise d'Editions Photo-Cartographiques. (See Arnold, Henry, assignor.)

Society of Chemical Industry in Basle. (See Schedler, Arnold, assignor.)

Soderberg, Andrew, Berkeley, Calif. Tray-turner. No. 1,342,774; June 8; v. 275; p. 281.

Sodemann, Christian W. G., St. Louis, Mo. Radiator shield. No. 1,343,414; June 15; v. 275; p. 469.

Soeders, Joseph. (See Clogston, Melvin, assignor.)

Solberg, Knut E., Philadelphia, Pa. Calipering-rule. No. 1,341,865; June 1; v. 275; p. 50.

Solomon, Serena, Youngstown, Ohio. Curtain-stretcher. No. 1,342,396; June 1; v. 275; p. 152.

Soines, Walter F., Boston, assignor to W. B. Merrill, Newton, Mass. Lubricating apparatus. No. 1,342,605; June 8; v. 275; p. 246.

Sontheimer, John, Lincoln, Nebr. Pencil-sharpener. No. 1,343,796; June 15; v. 275; p. 545.

Soss, Joseph, New York, N. Y. Hinge. (Reissue.) No. 14,899; June 22; v. 275; p. 773.

Soulliard, James J., Chicago, Ill. Toy. No. 1,344,064; June 22; v. 275; p. 663.

Spånberg, Arthur E. K. (See Thelin, Carl G. T., assignor.)

Sparks, William, Jackson, Mich. Vacuum-tank. No. 1,343,591; June 15; v. 275; p. 504.

Speidel, Edwin F. M., Edgewood, assignor to Automatic Gold Chain Company, Providence, R. I. Catch device. No. 1,343,939; June 22; v. 275; p. 638.

Spelling, Thomas C., New York, N. Y. Puller for stoppers. No. 1,341,680; June 1; v. 275; p. 13.

Spence, David W. (See Jones, O. B., and Spence.)

Spence, Hubert L., assignor to The National Malleable Castings Company, Cleveland, Ohio. Yoke for railway-cars. No. 1,342,696; June 8; v. 275; p. 254.

Spence, Hubert L., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-yoke. No. 1,342,697; June 8; v. 275; p. 265.

Spencer, Arthur C., Washington, D. C. Recovering potash. No. 1,344,830; June 29; v. 275; p. 878.

Spencer, George F. (See Spencer, William H., assignor.)

Spencer Kellogg & Sons. (See Schwareman, Alexander, assignor.)

Spencer Lens Co. (See Ott, H. N., and Bufton, assignors.)

Spencer, Thomas E., Wetaskuvin, Alberta, Canada. Bomb-thrower. No. 1,342,357; June 1; v. 275; p. 145.

Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Dirigible lamp. No. 1,341,681; June 1; v. 275; p. 14.

Spencer, William H., assignor of one-third to P. O'Neill and one-third to W. G. Smith, Buffalo, N. Y. Spreader for rope-making. No. 1,343,854; June 15; v. 275; p. 557.

Sperry, Elmer A., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Controlling mechanism for ships' gyroscopes. No. 1,342,397; June 1; v. 275; p. 152.

Sperry, Elmer A., Brooklyn, N. Y. Electrode for searchlights and making same. No. 1,342,398; June 1; v. 275; p. 153.

Sperry Gyroscope Company. (See Sperry, Elmer A., assignor.)

Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)

Speyer, John E., Le Grand, assignor of one-half to A. L. Hedges, San Francisco, Calif. Soft-collar button. No. 1,343,096; June 8; v. 275; p. 344.

Spiers, Frederick G., New Britain, assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp switch. No. 1,344,735; June 29; v. 275; p. 859.

Spinasse, Arthur E., Mount Vernon, Ohio. Glass-drawing apparatus. No. 1,343,186; June 8; v. 275; p. 361.

Spirito, Ermogene, Pasadena, Calif. Tomato-masher. No. 1,342,877; June 8; v. 275; p. 301.

Splitdorf Electrical Company. (See Borger, Henry E., assignor.)

Spoden, Henry J., and J. B. Welsh, St. Cloud, Minn. Trolley. No. 1,343,592; June 15; v. 275; p. 504.

Spohr, John, assignor to H. R. Bruah, Chicago, Ill. Front-axle brace. No. 1,342,514; June 8; v. 275; p. 229.

Spradling, John T., White Plains, N. Y. Reading-glass holder. No. 1,345,272; June 29; v. 275; p. 962.

Sprague, Charles B., assignor to Diamond Iron Works, Minneapolis, Minn. Resawing-machine. No. 1,344,096; June 22; v. 275; p. 668.

Sprague, Frank D., and P. W. Allison, New York, N. Y. Delay-action fuse. No. 1,343,415; June 15; v. 275; p. 469.

Sprever, George S., Fallon, Nev. Tail-board scraper. No. 1,343,097; June 8; v. 275; p. 344.

Squire, Gayle L., Hastings, Fla. Barrel, wine, and lard press. No. 1,344,156; June 22; v. 275; p. 680.

Squires, Harold W., Amityville, assignor to Research Corporation, New York, N. Y. Apparatus for the electrical treatment of gases. No. 1,342,651; June 8; v. 275; p. 255.

Stacke, Paul F., Jersey City, N. J. Sliding door. No. 1,343,416; June 15; v. 275; p. 470.

Stafford Company, The. (See Le Doux, Hector, assignor.)

Stafford, George A. and R. M., Sour Lake, Tex. Tool-joint. No. 1,344,774; June 29; v. 275; p. 867.

Stafford, Rogers T., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Display-card. No. 1,343,651; June 15; v. 275; p. 516.

Stafford, Hal R., North Plainfield, N. J., assignor to Franklin Railway Supply Company. Flexible joint. No. 1,345,334; June 29; v. 275; p. 974.

Stafford, Roy M. (See Stafford, George A. and R. M.)

Stahl, Charles E. (See Livingston, S. D., and Stahl.)

Stainer, Josef, Pierre, S. D. Reinforced-concrete bridge structure. No. 1,344,920; June 29; v. 275; p. 896.

Stair, William S., assignor to Shipley Construction and Supply Company, Brooklyn, N. Y. Automatic expansion-valve. No. 1,341,766; June 1; v. 275; p. 31.

Stake, Walter J. (See Hensel, H. F., and Stake.)

Stanbrough, William M., Newburgh, N. Y. Dental articulator. No. 1,343,691; June 15; v. 275; p. 524.

Standard Engineering Company. (See Scott, Lewis L., assignor.)

Standard Oil Company, The. (See Humphreys, R. E., and Burton, assignors.)

Standard Parts Company, The. (See Bryant, Richard S., assignor.)

Standard Stoker Company. (See Carey, James A., assignor.)

Stander, Jacob, Brooklyn, N. Y. Resilient tire and filling therefor. No. 1,343,233; June 15; v. 275; p. 435.

Standish, John F., Winthrop, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Finishing-machine. No. 1,343,379; June 15; v. 275; p. 463.

Stanley, Freelan O., Newton, assignor to Unit Railway Car Company, Cambridge, Mass. Steam-boiler. No. 1,342,606; June 8; v. 275; p. 247.

Stanley, Jacob H., Spring City, Pa. Woman's union-suit. No. 1,342,188; June 1; v. 275; p. 113.

Stapp, Edward H., assignor of one-half to E. E. Stapp, Kevil, Ky. Grain-scouring machine. No. 1,345,273; June 29; v. 275; p. 962.

Stapp, Ernest E. (See Stapp, Edward H., assignor.)

Stark, John R., assignor to Webster Electric Company, Racine, Wis. Ignition-magneto. No. 1,342,607; June 8; v. 275; p. 247.

Stark, John R., assignor to Owens-Stark Manufacturing Company, Nashville, Tenn. Adjustable bed. No. 1,343,593; June 15; v. 275; p. 504.

Stark, Ottmar G. (See Flammang, John, assignor.)

Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brazing end rings. No. 1,341,682; June 1; v. 275; p. 14.

Starr, Samuel E. (See Haas, Victor E., assignor.)

Stearn, Franklin A. (See Lundell, A. E., and Stearn.)

Steel Utilities Incorporated. (See Hawthorne, Louis A., assignor.)

Steele, Lawrence C., Pittsburgh, Pa. Rolling-mill. No. 1,342,608; June 8; v. 275; p. 247.

Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Feeder for can-filling machines. No. 1,343,417; June 15; v. 275; p. 470.

Steinbart, Alfred. (See Hewitt, G. W., and Steinbart.)

Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,310; June 1; v. 275; p. 136.

Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,311; June 1; v. 275; p. 136.

Steinberger, Louis, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,312; June 1; v. 275; p. 136.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for inductance-coils. No. 1,342,303; June 1; v. 275; p. 135.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,304; June 1; v. 275; p. 135.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,305; June 1; v. 275; p. 135.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,306; June 1; v. 275; p. 136.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,307; June 1; v. 275; p. 136.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for inductance coils. No. 1,342,308; June 1; v. 275; p. 136.

Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,342,309; June 1; v. 275; p. 136.

Steinborn, Otto, Arlington, Minn. Threshing-machine. No. 1,344,599; June 22; v. 275; p. 768.

Steinen, Otto. (See La Fontaine, George A., assignor.)

Steinmeier, William F. (See Wright, Jefferson G., assignor.)

Stengel, Herman, assignor to A. J. Otten, Los Angeles, Calif. Angle-gage attachment for paper-cutting machines. No. 1,345,033; June 29; v. 275; p. 915.

Stephens, Sterling, Bushnell, Fla. Auto-rim. No. 1,341,942; June 1; v. 275; p. 65.

Stephens Manufacturing Company. (See Stephens, Thomas J., assignor.)

Stephens, Thomas J., New Castle, Pa., assignor to Stephens Manufacturing Company, Los Angeles, Calif. Process and apparatus for burning gaseous fuel with high efficiency. No. 1,343,098; June 8; v. 275; p. 345.

Sterling Bronze Company. (See Roth, Louis, assignor.)

Stern, Adolf, Chicago, Ill. Socket-wrench. No. 1,343,692; June 15; v. 275; p. 525.

Stern, Charles, New York, N. Y. Collar-button. No. 1,342,003; June 1; v. 275; p. 76.

Sternaman, John. (See Weaver, I. A., and Sternaman.)

Sternaman, John, Jr. (See Weaver, I. A., and Sternaman.)

Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Floor construction. No. 1,343,234; June 15; v. 275; p. 435.

Stevens, Howard M., Indianapolis, Ind. Armor for inner tubes. No. 1,343,418; June 15; v. 275; p. 470.

Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)

Stevens, Richard H., Philadelphia, Pa. Gate-operating device for shafts. No. 1,342,832; June 8; v. 275; p. 292.

Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Variable-speed-transmission gearing. No. 1,344,319; June 22; v. 275; p. 712.

Stevens, William H., New York, N. Y. Clip or clasp. No. 1,342,698; June 8; v. 275; p. 265.

Stevenson, Hugh, & Sons. (See Oglesby, Samuel W., assignor.)

Stevenson, Hugh, & Sons. (See Thompson, Henry G., assignor.)

Stevenson, Levi, Deer River, Minn. Clothes-rack. No. 1,344,660; June 29; v. 275; p. 845.

Stewart, Arthur L. (See Gleason, J. E., Stewart, and Head.)

Stewart, Charles M., Portsmouth, Ohio. Sash-weight No. 1,345,274; June 29; v. 275; p. 962.

Stewart, Edwin L., Huntington, W. Va. Drinking attachment for bottles. No. 1,341,826; June 1; v. 275; p. 42

Stewart, Frederick W., Beaver, Pa. Glass-pressing machine. No. 1,343,987; June 22; v. 275; p. 647.

Stewart, Irving N., Philadelphia, Pa. Portable wardrobe No. 1,342,269; June 1; v. 275; p. 229.

Stewart, Sylvester N., Dayton, Ohio. Combination railway-car and unicycle and coupling means therefor. No. 1,342,137; June 1; v. 275; p. 103.
Stewart-Warner-Speedometer Corporation. (See Genn, John E., assignor.)
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,342,469; June 8; v. 275; p. 220.
Stewart, William H., Boston, Mass. Sewer-cleaning apparatus. No. 1,344,249; June 22; v. 275; p. 698.
Stickley, Lloyd W., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,345,275; June 29; v. 275; p. 962.
Stifel, Herman C., *et al.* (See Hachmann, Frederick, assignor.)
Stiles-Gilliland Manufacturing Company. (See Raff, Ernest G., assignor.)
Stillman, Frederick O. (See Hayward, C. R. Stillman, and Schleicher.)
Stillwaggon, John H., Richmond Hill, N. Y. Fire-hose support. No. 1,344,736; June 29; v. 275; p. 859.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. No. 1,344,065; June 22; v. 275; p. 663.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Shuttle for side-motion-feeler looms. No. 1,344,066; June 22; v. 275; p. 663.
Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Material-actuated release for clothes-wringers. No. 1,342,004; June 1; v. 275; p. 76.
Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Material-actuated release for clothes-wringers. No. 1,342,005; June 1; v. 275; p. 76.
Stocking, Sarah C., executrix. (See Stocking, Edgar B.)
Stockwell, Millard E., Monrovia, Calif. Internal-combustion engine. No. 1,342,723; June 8; v. 275; p. 270.
Stoddard, Enoch V., Rochester, N. Y. Bomb-dropping mechanism. No. 1,345,276; June 29; v. 275; p. 963.
Stoelzel, Paul, Adams, Mass. Copy-book holder. No. 1,343,527; June 15; v. 275; p. 491.
Stoeser, Walter G., Seattle, Wash., assignor of one-half to A. Wetstein, Portland, Oreg. Fuse-plug. No. 1,344,359; June 22; v. 275; p. 720.
Stogoff, Peter E., New York, N. Y. Submarine radio-system. No. 1,343,165; June 8; v. 275; p. 358.
Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Philadelphia, Pa. Air or moisture proof package. No. 1,343,235; June 15; v. 275; p. 435.
Stokes & Smith Company. (See Buswell, Walter, assignor.)
Stokes & Smith Company. (See Reifsnyder, J. D., and Weightman, assignors.)
Stokes & Smith Company. (See Stokes, John S., assignor.)
Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
Stoll, Sherm G. (See Costelloe, C., and Stoll.)
Stolle, Georg P. E., Kiel, Germany. Producing artificial respiration. No. 1,343,486; June 15; v. 275; p. 483.
Stolzenburg, Christian C., Elyria, Ohio. Cushion-heel. No. 1,343,528; June 15; v. 275; p. 492.
Stone, Charles E., Boston, Mass. Pencil-sharpener. No. 1,341,943; June 1; v. 275; p. 65.
Stone, Claude C., *et al.* (See Crays, Oscar M., assignor.)
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Conveying and discharging apparatus. No. 1,342,975; June 8; v. 275; p. 320.
Stoney, John T., Cleveland, Ohio. Molding-machine. No. 1,343,940; June 20; v. 275; p. 639.
Stoney, John T., Cleveland, Ohio. Making molds. No. 1,343,941; June 22; v. 275; p. 639.
Stoney, John T., Cleveland, Ohio. Making molds with greensand cores. No. 1,344,737; June 29; v. 275; p. 859.
Storle, Ole O., Tacoma, Wash. Automatic stop for sound-reproducing machines. No. 1,341,767; June 1; v. 275; p. 31.
Storle, Ole O., Tacoma, Wash. Machine-gun. No. 1,342,358; June 1; v. 275; p. 145.
Storms, George W., Kalamazoo, Mich., assignor of one-half to A. H. Long, Crawfordsville, Ind. Collapsible culvert-form. No. 1,344,775; June 29; v. 275; p. 867.
Stott, Oswald, Birmingham, and E. R. Jones, Stourbridge, England. Aeration of sewage and other impure liquids. No. 1,343,797; June 15; v. 275; p. 546.
Stowe, Floyd D., Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Disk-feeder. No. 1,342,189; June 1; v. 275; p. 113.
Stoykovich, Josef. (See Krivosky, F., and Stoykovich.)
Stranders, Julien, Brooklyn, assignor to Atlanta Lithographic and Printing Company, New York, N. Y. Easel. No. 1,342,313; June 1; v. 275; p. 137.
Strasburger, Amelia, New York, N. Y. Game apparatus. No. 1,345,277; June 29; v. 275; p. 963.
Stransky, Stephen, Darby, Pa. Foldable screened chair. No. 1,344,097; June 22; v. 275; p. 669.
Stratton, Charles E. (See Burns, Robert L., assignor.)
Stratton, Louis F., Charlotte, N. C. Coil-winder. No. 1,344,567; June 22; v. 275; p. 761.
Straube Piano Company. (See Betz, William G., assignor.)
Strawn, Herman M., Chico, Calif. Wood-handling device. No. 1,343,288; June 15; v. 275; p. 445.
Streby, Ray D., Canal Fulton, assignor to The Fulton-Kenova Mine Car Company, Cleveland, Ohio. Wheel construction. No. 1,344,600; June 22; v. 275; p. 768.
Streibich, John C., Little Rock, Ark. Removable barrel-head. No. 1,344,098; June 22; v. 275; p. 669.
Strickland Company, The. (See Strickland, David J., assignor.)
Strickland, David J., assignor to The Strickland Company, Cleveland, Ohio. Automatic brick-making machine. No. 1,344,099; June 22; v. 275; p. 669.
Strickland, David J., assignor to The Strickland Company, Cleveland, Ohio. Automatic brick-making machine. No. 1,344,278; June 22; v. 275; p. 704.
Strieter, Florence A., Chicago, Ill. Railway-gate. No. 1,344,776; June 29; v. 275; p. 867.
Stringfield, Raymond B., assignor to International Precipitation Company, Los Angeles, Calif. Recovery of solubles from flue-dust. No. 1,345,034; June 29; v. 275; p. 916.
Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company. Work-guide for sewing-machines. No. 1,342,775; June 8; v. 275; p. 281.
Strong, William J. H. (See Freeland, Lloyd D., assignor.)
Strong, William J. H., Beloit, Wis. Air machine and propeller. No. 1,344,661; June 29; v. 275; p. 845.
Strongson, Herman L., Springfield, Mass., assignor to Loeb-Strongson Corporation, New York, N. Y. Slip-cover for cans. No. 1,343,099; June 8; v. 275; p. 345.
Stroud, David H., Philadelphia, Pa. Machine for treating cut-pile fabrics. No. 1,344,777; June 29; v. 275; p. 868.
Stroud, David L., Mabel, Minn. Attachment for motor-vehicles. No. 1,345,278; June 29; v. 275; p. 963.
Stroud, William. (See Barr, A., and Stroud.)
Stubblebine, Raymond F., assignor to Hale & Kilburn Corporation, Philadelphia, Pa. Car-seat. No. 1,343,594; June 15; v. 275; p. 505.
Stubbs, Robert A., assignor of three-fourths to G. W. Griswold, Dallas, Tex. Shredding and blending mechanism for feed. No. 1,344,832; June 29; v. 275; p. 878.
Study, Nathaniel C., Kalamazoo, Mich. Tamping-machine. No. 1,341,944; June 1; v. 275; p. 65.
Study, Nathaniel C., Kalamazoo, Mich. Tamper and the like implement. No. 1,341,945; June 1; v. 275; p. 65.
Stukenborg, Frederick W. (See Stukenborg, Louis C., assignor.)
Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Tubing. No. 1,343,236; June 15; v. 275; p. 436.
Stupar, Maximillian F., assignor to A. J. Elias, Buffalo, N. Y. Landing-gear for flying-machines. No. 1,342,138; June 1; v. 275; p. 103.
Sturm, James, Tampico, Ill. Trousers-supporting device. No. 1,342,930; June 8; v. 275; p. 311.
Sturtevant Mill Company. (See Sturtevant, T. J., and Doyle, assignors.)
Sturtevant, Thomas J., Wellesley, and W. T. Doyle, assignors to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,342,470; June 8; v. 275; p. 221.
Styll, Harry H., Southbridge, Mass. Periscope. No. 1,341,683; June 1; v. 275; p. 14.
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Suchy, Frank C., San Antonio, Tex. Staple-setter. No. 1,343,289; June 15; v. 275; p. 445.
Suchy, Frank C., San Antonio, Tex. Tag-threading machine. No. 1,343,290; June 15; v. 275; p. 445.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Auxiliary apparatus for condensers. No. 1,342,471; June 8; v. 275; p. 221.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Method of and apparatus for compressing fluid. No. 1,344,967; June 29; v. 275; p. 903.
Sullivan, Daniel C., and G. L. Hawkins, Elizabeth, and W. J. MacMillan, Roselle, assignors of one-half to D. C. Sullivan, Elizabeth, N. J., and one-half to Almion Engineering & Contracting Company, New York, N. Y. Wire-drawing machine. No. 1,344,568; June 22; v. 275; p. 761.
Sullivan, Frank A., and W. L. Lukens, Bethlehem, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Fuse. No. 1,342,652; June 8; v. 275; p. 255.
Sullivan, James F., *et al.* (See Palmer, Victor C., assignor.)
Sullivan, John J., Lowell, Mass. Fuel-reserve tank. No. 1,344,738; June 29; v. 275; p. 860.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sundre, Olaf E., Arlington, Minn. Automatic poultry-sprayer. No. 1,342,776; June 8; v. 275; p. 281.
Sundt, Andreas, assignor to Brödrene Sundt, Vaerköimaskinfabrik A/S, Christiania, Norway. Turning-lathes. No. 1,341,946; June 1; v. 275; p. 65.
Superior Manufacturing Company. (See Woock, H. J., and Woock, assignors.)
Sutherland, Forrest A. (See Downing, S. J., and Sutherland.)
Sutherland, Frank, Brooklyn, N. Y. Loose-leaf binder. No. 1,342,833; June 8; v. 275; p. 292.
Sutter, Josiah H., and C. N. Atherton, Wichita, Kans. Crank pin and shaft truing tool. No. 1,344,831; June 29; v. 275; p. 878.

Sutton, Birt, Dover, N. J. Direction-indicator for automobiles. No. 1,343,529; June 15; v. 275; p. 492.
Suyehiro, Kunisuke, Eureka, Utah. Doll-house. No. 1,343,065; June 8; v. 275; p. 338.
Svenska Aktiebolaget Nobel-Diesel. (See Lagersten, Frans A., assignor.)
Swaim, Charles S. (See Nimmo, W. B., and Swaim.)
Sweasey, Frank R. (See Torno, Karl L., assignor.)
Sweeney, Ulysses G., Fresno, Calif. Tack-holder. No. 1,344,157; June 22; v. 275; p. 680.
Sweet, Frederick A., Salt Lake City, Utah, and G. G. Jamieson, Oakland, Calif. Coaling-barge. No. 1,344,459; June 22; v. 275; p. 740.
Sweet, Frederick A., Salt Lake City, Utah. Car-wheel. No. 1,344,460; June 22; v. 275; p. 740.
Sweet, Hartford, Brookfield, Ill. Wick-doubler. No. 1,345,280; June 29; v. 275; p. 963.
Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,343,182; June 8; v. 275; p. 361.
Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,344,215; June 22; v. 275; p. 691.
Sweney, Helene L., Boston, Mass. Drapery-holder. No. 1,341,684; June 1; v. 275; p. 14.
Swenson, Albin, New York, N. Y. Automatic brake. No. 1,342,699; June 8; v. 275; p. 265.
Swickard, Dan B., Galva, Ill. Pliers. No. 1,345,035; June 29; v. 275; p. 916.
Swift, George W., Jr., Bordentown, N. J. Variable automatic control mechanism. No. 1,343,487; June 15; v. 275; p. 483.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Mailing sheet or blank. No. 1,343,419; June 15; v. 275; p. 470.
Swindall, Albert J. (See Connell, H. G., and Swindall.)
Switzer, Judson, Portland, Oreg. Gage. No. 1,344,569; June 22; v. 275; p. 762.
Swope, Leon W., assignor of one-half to M. C. Kelly, Vincennes, Ind. Headlight. No. 1,341,947; June 1; v. 275; p. 66.
Sybert, Norman L., Kildare, Okla. Spool for oil-well derricks. No. 1,342,653; June 8; v. 275; p. 255.
Synstelien, Bernhard J., Fonda, Iowa. Combined locking and lifting device for truck-bodies. No. 1,342,472; June 8; v. 275; p. 221.
Sypho-Chemical Sprinkler Corporation. (See Hamilton, John R., assignor.)
Szako, John, Milwaukee, Wis. Saw-filing clamp. No. 1,342,236; June 1; v. 275; p. 123.
Szarek, Joseph, Livermore, Pa. Rail-joint. No. 1,342,006; June 1; v. 275; p. 77.
Tabler, Harry C. (See Dougherty, J. M., and Tabler.)
Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.
Tabulating Machine Company, The. (See Lake, Clair D., assignor.)
Tadakuma, Seizi, Los Angeles, Calif. Snap-fastener for shoes. No. 1,343,942; June 22; v. 275; p. 639.
Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
Talt, Alfred D., Evanston, Ill. Dumping-truck. No. 1,344,100; June 22; v. 275; p. 669.
Takato, Tomokichi, *et al.* (See Toda, Tomokichi, assignor.)
Talbot, Edna E. (See Talbot, James A., assignor.)
Talbot, James A., assignor to E. E. Talbot, Walla Walla, Wash. Toy gun. No. 1,342,700; June 8; v. 275; p. 265.
Taliaferro, Thomas L., Chicago, Ill. Closure for jelly-glasses or the like. No. 1,343,013; June 8; v. 275; p. 328.
Talley, Randal E., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bevel-gear. No. 1,341,685; June 1; v. 275; p. 14.
Tallman, Albert R., Nashville, Tenn. Gas-cock. No. 1,343,530; June 15; v. 275; p. 492.
Tallon, Robert, Apulia, N. Y. Holdback. No. 1,342,724; June 8; v. 275; p. 270.
Tamburello, Benedetto, New York, N. Y. Demountable rim. No. 1,344,662; June 29; v. 275; p. 845.
Tamburini, Matteo, Paterson, N. J. Loom-clock. No. 1,343,985; June 22; v. 275; p. 648.
Tangwall, Nels P., Duluth, Minn. Portable shears. No. 1,342,473; June 8; v. 275; p. 221.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic navigational apparatus. No. 1,343,188; June 8; v. 275; p. 362.
Taplex Corporation. (See Fritzsche, George H., assignor.)
Tate-Jones & Co. (See Buell, William C., Jr., assignor.)
Tate-Jones & Company. (See Trinks, Charles L. W., assignor.)
Taylor, Charles, and R. H. Saunders, Paterson, N. J. Piling-machine. No. 1,342,190; June 1; v. 275; p. 114.
Taylor, Charles H., Toronto, Ontario, Canada. Mechanical piano-player. No. 1,343,237; June 15; v. 275; p. 436.
Taylor, Harvey R., Philadelphia, Pa. System of lubrication. No. 1,341,866; June 1; v. 275; p. 50.
Taylor, Horace H., Oakland, Calif. Vehicle-wheel. No. 1,345,281; June 29; v. 275; p. 964.
Taylor, Joseph B. (See Milliken, Humphreys, assignor.)
Taylor, Robert A., Cincinnati, Ohio. Carton and blank therefor. No. 1,343,420; June 15; v. 275; p. 470.
Taylor, Russell E., New York, N. Y. Unitary yarn device and making same. No. 1,343,238; June 15; v. 275; p. 436.
Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Portable stove. No. 1,342,072; June 1; v. 275; p. 90.
Teague, Victor R., Lovington, N. Mex. Separable tire-rim. No. 1,345,282; June 29; v. 275; p. 964.
Tebeau, Lewis B., Concord, N. H. Heating device for lamp-chimneys. No. 1,342,359; June 1; v. 275; p. 145.
Teeples, Clarence. (See Wright, W. M., Teeples, and Lamb.)
Teetor Company. (See Teetor, Martin, assignor.)
Teetor, Martin, assignor to Teetor Company, Des Moines, Iowa. Calculating-machine. No. 1,344,191; June 22; v. 275; p. 687.
Ten Eyck, Walter P. (See Anderson, Andrew P., assignor.)
Tenney, H. O. (See Thomas, Edwin E., assignor.)
Tennille, Harry N., Dumbarton, Va. Permutation-padlock. No. 1,342,633; June 1; v. 275; p. 82.
Tennyson, Alexander C., Alexandria, La. Automobile-cranker. No. 1,343,531; June 15; v. 275; p. 492.
Ternsted Manufacturing Company. (See Simpson, E. G., Schmidt, and Carstens, assignors.)
Ternstedt Manufacturing Co. (See Simpson, Emory G., assignor.)
Terry, Edgar J., St. John, New Brunswick, Canada. Ball-cock for water-closet tanks. No. 1,343,421; June 15; v. 275; p. 470.
Terstyansky, Albert A., Bridgeport, assignor to Winchester Repeating Arms Co., New Haven, Conn. Burglar-alarm. No. 1,342,104; June 1; v. 275; p. 96.
Test, Ellis W., Michigan City, Ind. Detachable roof. No. 1,343,291; June 15; v. 275; p. 445.
Thayer, Rena W., Springfield, Mass. Attachment for barrettes. No. 1,343,239; June 15; v. 275; p. 436.
Thayer, Roscoe W., Lacrosse, Wash. Cultivator. No. 1,344,833; June 29; v. 275; p. 878.
Thayer, Russell, Philadelphia, Pa. Extracting platinum and similar metals from their sands and ores. No. 1,341,684; June 1; v. 275; p. 14.
Theimer, Max, Elizabeth, N. J. Bone-holding device. No. 1,342,515; June 8; v. 275; p. 229.
Thelin, Carl G. T., assignor to A. E. K. Spångberg, Stockholm, Sweden. Starting device for internal-combustion engines. No. 1,344,739; June 29; v. 275; p. 860.
Thermokept Products Corporation. (See McColl, F. P., and Willison, assignors.)
Thomas, Carl C., Baltimore, Md. Internal-combustion-engine pump. No. 1,343,693; June 15; v. 275; p. 525.
Thomas, Charles W., Wayne, Pa. Refractory product and making same. No. 1,344,461; June 22; v. 275; p. 741.
Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Combination-wrench. No. 1,344,101; June 22; v. 275; p. 669.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Face-plate for flush receptacles. No. 1,342,237; June 1; v. 275; p. 123.
Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator-mounting for motor-vehicles. No. 1,342,191; June 1; v. 275; p. 114.
Thomas, George N., Mankato, Minn. Radiator-protector. No. 1,345,283; June 29; v. 275; p. 964.
Thomas, George P., Glenshaw, Pa. Punching machinery. No. 1,342,878; June 8; v. 275; p. 301.
Thomas, George P., Glenshaw, Pa. Punching-machine. No. 1,342,879; June 8; v. 275; p. 302.
Thomas, George P., Glenshaw, Pa. Spacing-machine. No. 1,342,880; June 8; v. 275; p. 302.
Thomas, Hugh, Chinchilla, Pa. Spindle-holder. No. 1,345,284; June 29; v. 275; p. 964.
Thomas, Leslie A., Evansville, Ind. Hitch. No. 1,342,725; June 8; v. 275; p. 270.
Thomas, Rosser. (See Midgett, Penelton G., assignor.)
Thomas, Steve, Macclenny, Fla. Grapple-hook for skidding logs. No. 1,344,320; June 22; v. 275; p. 712.
Thomassen, Gotfred J., West Philadelphia, Pa. Flexible pipe-joint. No. 1,344,834; June 29; v. 275; p. 879.
Thompson, Alexander, executor. (See Howard, Elverton J.)
Thompson, Andrew J., Alton, N. H. Steam-turbine. No. 1,345,285; June 29; v. 275; p. 964.
Thompson, Don L., Spokane, Wash. Bath-cabinet. No. 1,342,474; June 8; v. 275; p. 221.
Thompson, George H., Summerland, assignor of one-half to L. O. De Rieux, Santa Barbara, Calif. Trap-gun. No. 1,343,066; June 8; v. 275; p. 338.
Thompson, Harry E., and P. L. Bunn, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill. Standpipe. No. 1,342,516; June 8; v. 275; p. 229.
Thompson, Henry G., London, assignor to Hugh Stevenson & Sons Limited, Manchester, England. Container. No. 1,345,036; June 29; v. 275; p. 916.
Thompson, Herbert L., Elgin, Ill. Internal-combustion engine. No. 1,342,976; June 8; v. 275; p. 320.
Thompson, Herbert L., assignor to Elgin Gas Motor Company, Elgin, Ill. Gas-engine. No. 1,342,977; June 8; v. 275; p. 320.
Thompson, Herbert L., assignor to The Maytag Company, Newton, Iowa. Spark control and governor for internal-combustion engines. No. 1,343,943; June 22; v. 275; p. 639.

Thompson, John S., Chicago, Ill. Type-casting machine. No. 1,345,286; June 29; v. 275; p. 965.
Thompson, Robert A., and L. P. Morris, assignors to International Manufacturing Company of Texas, Dallas, Tex. Churning device. No. 1,343,532; June 15; v. 275; p. 493.
Thompson, Roy E. (See Avery, F. C., and Thompson.)
Thompson, Russell G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive construction. No. 1,344,740; June 29; v. 275; p. 860.
Thompson, Scott M., U. S. Navy. Gun control. No. 1,342,475; June 8; v. 275; p. 221.
Thompson, Thomas L., Chetek, Wis. Reel for holding barbed or other wire. No. 1,343,067; June 8; v. 275; p. 338.
Thomson Electric Welding Company. (See Gravell, James H., assignor.)
Thomson Electric Welding Company. (See Remington, Wolcott, assignor.)
Thomson, Judson L. (See Havener, Arthur R., assignor.)
Thomson, Robert A., Berkeley, and G. Alvis, Oakland, Calif. Doll. No. 1,343,422; June 15; v. 275; p. 471.
Thorn, Earl, Clearfield, Pa. Manually-propelled wagon. No. 1,341,725; June 1; v. 275; p. 22.
Thorne Brothers, Incorporated. (See Weaver, Ira A., assignor.)
Thorne, Victor C., New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc. Luminous indicating device. No. 1,342,777; June 8; v. 275; p. 281.
Thorne, Victor C., New York, N. Y., assignor, by mesne assignments, to The Cold Light Manufacturing Company, Inc. Luminous indicating device. No. 1,342,778; June 8; v. 275; p. 281.
Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric sadiron. No. 1,344,741; June 29; v. 275; p. 860.
Thoro Corporation, The. (See Wolters, Leon A., assignor.)
Thorold, Frederick W., Toronto, Ontario, Canada. Making and transporting solutions. No. 1,344,102; June 22; v. 275; p. 670.
Thorssell, Carl T. (See Holmgren, T. A. F., and Thorssell.)
Thorssell, Carl T., and H. L. R. Lundén, assignors to Aktiebolaget Kvafveindustri, Gottenborg, Sweden. Fixing nitrogen. No. 1,342,834; June 8; v. 275; p. 293.
Thunberg, Frank. (See Anderson, Charles E., assignor.)
Thurlow, Edward W., Brighton, Victoria, Australia. Obtaining motor-fuels and light paraffin-oils from shale; and benzene, toluene, and solvent naphtha from coal. No. 1,343,100; June 8; v. 275; p. 345.
Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Compensating device for thermo-couples. No. 1,344,462; June 22; v. 275; p. 741.
Thwing Instrument Company. (See Thwing, Charles B., assignor.)
Tidd, Charles L. (See March, C. M., and Tidd.)
Tiffany, Louis L., Roslindale, Mass., assignor of one-half to T. McGoldrick, Lincoln, N. H. Incorrect-position-indicator for pianos. No. 1,343,595; June 15; v. 275; p. 505.
Tilney, Mary G., Mobile, Ala. Flower-holder. No. 1,344,526; June 22; v. 275; p. 754.
Timmons, Sanford L., Des Moines, Iowa. Traction-engine. No. 1,342,779; June 8; v. 275; p. 282.
Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical compensator. No. 1,344,742; June 29; v. 275; p. 861.
Tirrill, Allen A., Pittsburgh, Pa. Electrical compensator. No. 1,344,743; June 29; v. 275; p. 861.
Titan Co., A/S. (See Goldschmidt, Victor M., assignor.)
Titan Co., A/S. (See Nielsen, R., and Goldschmidt, assignors.)
Titan Co. A/S, of Norway. (See Farup, Peder, assignor.)
Titanium Alloy Manufacturing Company, The. (See Barton, Louis E., assignor.)
Toda, Tomokichi, Kaijo, Korea, assignor of one-half to T. Takato, Nagoya City, Japan, and one-half to H. Gunji, Iwate, Japan. Pin-anchor escapement for time-pieces. No. 1,343,798; June 15; v. 275; p. 546.
Todd, John H., Cleveland, Ohio. Laundry-checking device. No. 1,343,423; June 15; v. 275; p. 471.
Todhunter, Richard T., H. A. Duke, and A. Woods, Barnesboro, Pa. Trolley-hanger. No. 1,342,034; June 1; v. 275; p. 82.
Tokheim Oil Tank and Pump Company. (See Burns, Walter G., assignor.)
Toledo Machine & Tool Company, The. (See Lindgren, Bror J., assignor.)
Toledo Rex Spray Company, The. (See Hedenburg, O. F., and Pratt, assignors.)
Toledo Scale Company. (See Reeves, Orwell C., assignor.)
Toledo Shower Company, The. (See Treese, George E., assignor.)
Tomada, Jichio, Hynes, Calif. Speed-changing-gear system. No. 1,343,944; June 22; v. 275; p. 639.
Tomlin, Edward A., Bonner Springs, Kans. Fastening device for antiskid-chains. No. 1,344,778; June 29; v. 275; p. 868.
Tomlinson, William, St. Catharines, Ontario, Canada. Railway-tie. No. 1,345,287; June 29; v. 275; p. 965.
Topping, Henry, Ashley, Ill. Saw-handle. No. 1,344,103; June 22; v. 275; p. 670.
Topping Manufacturing Co., The. (See Pilce, Thomas V., assignor.)
Torgerson, Carl O., Houston, Minn. Stake-holder. No. 1,342,654; June 8; v. 275; p. 255.
Torno, Karl L., Berkeley, assignor of one-half to F. R. Sweasey, San Francisco, Calif. Combined cement. No. 1,342,360; June 1; v. 275; p. 146.
Torrens, John A., Muckamore, Ireland. Water-valve for carbureters and vaporizers of internal-combustion engines. No. 1,343,488; June 15; v. 275; p. 483.
Totman, Frank B., Los Angeles, Calif. Portable paving plant. No. 1,341,948; June 1; v. 275; p. 66.
Towers, Jesse, Cornwall, Ontario, Canada, assignor to Draper Corporation, Hopedale, Mass. Warp-opening mechanism for looms. No. 1,344,067; June 22; v. 275; p. 663.
Townsend, Arthur J., Canton, Ohio. Rolling-mill repeater. No. 1,343,652; June 15; v. 275; p. 516.
Townsend, Charles E., Norfolk, Va. Pocket toothbrush and dentifrice holder. No. 1,343,240; June 15; v. 275; p. 436.
Townsend, Clyde, Newport News, Va. Auto signal-arm. No. 1,342,607; June 1; v. 275; p. 77.
Townsend Company. (See De Lapotterie, Otto H., assignor.)
Trammell, Jefferson D., Fort Worth, Tex. Pipe of concrete and the like. No. 1,344,779; June 29; v. 275; p. 868.
Transit Vending Machine Company. (See Mann, James H., Jr., assignor.)
Trask, A. H., *et al.* (See Jochumsen, J., and Netcott, assignors.)
Trbojevich, Nikola. (See Olson, C. G., and Trbojevich.)
Treese, George E., assignor to The Toledo Shower Company, Toledo, Ohio. Shower and cleaning device. No. 1,344,008; June 22; v. 275; p. 652.
Trefren, Frank E., Butte Falls, Oreg. Lumber-piling device. No. 1,343,799; June 15; v. 275; p. 546.
Tremont Products Company. (See Smith, Raymond D., assignor.)
Trevillian, Guy R., Cicero, Ill. Apparatus for molding plastic materials. No. 1,342,192; June 1; v. 275; p. 114.
Trimm, Leslie E., Brooklyn, N. Y. Tent and hammock. No. 1,343,800; June 15; v. 275; p. 546.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Recuperator. No. 1,342,072; June 1; v. 275; p. 90.
Trinks, Charles L. W., assignor to Tate-Jones & Company, Inc., Pittsburgh, Pa. Heating-furnace. No. 1,342,074; June 1; v. 275; p. 90.
Troja, Louis F., assignor of one-half to G. R. Ludolph, Kansas City, Mo. Shipping-tag. (Reissue.) No. 14,883; June 15; v. 275; p. 565.
Trojan Powder Company. (See Bronstein, J. B., and Waller, assignors.)
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Trout, Harry M., Hamilton, Ohio. Hog-holding device. No. 1,343,596; June 15; v. 275; p. 505.
Troutman, Frank E., Butler, Pa. Casting-table for plate-glass. No. 1,343,614; June 8; v. 275; p. 328.
Troy Laundry Machinery Co. (See Bartholomew, William, assignor.)
Troye, Edgar, Christiania, Norway. Sheet-piling. No. 1,341,949; June 1; v. 275; p. 66.
Truby, Franklin J., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,343,989; June 22; v. 275; p. 648.
Trucksess, Robert G., Millersville, Pa. Auditorium-chair. No. 1,344,216; June 22; v. 275; p. 691.
Trulock, George H., Los Angeles, Calif. Advertising device. No. 1,341,950; June 1; v. 275; p. 66.
Truscon Steel Company. (See Plumb, Roy A., assignor.)
Tuck, Robert G., Oakland, Calif. Garment-protector. No. 1,343,166; June 8; v. 275; p. 358.
Tucker, Benjamin W., South Orange, N. J., assignor to H. J. Kabrs, New York, N. Y. Clothespin-machine. No. 1,344,217; June 22; v. 275; p. 692.
Tucker, Edwin W., North Prairie, Wis. Camera. No. 1,345,288; June 29; v. 275; p. 965.
Tucker, Frederick, Lafayette, Ala. Buggy-body. No. 1,343,068; June 8; v. 275; p. 339.
Tucker, Robert W., Weston, Mass. Navigator's instrument. No. 1,345,289; June 29; v. 275; p. 965.
Tucker, William A., Austin, Tex. Liquid-fuel burner. No. 1,343,945; June 22; v. 275; p. 640.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and generating system. No. 1,342,409; June 1; v. 275; p. 155.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,343,597; June 15; v. 275; p. 505.
Turbo Rotary Engine Co. (See Carroll, John D., assignor.)
Turins, Joseph S., Cleveland, Ohio. Operating mechanism for ice-cutting machines. No. 1,345,290; June 29; v. 275; p. 965.
Turnbull, William. (See Norellus, E. F., and Turnbull.)
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine. No. 1,344,360; June 22; v. 275; p. 720.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Multiple-disk clutch. No. 1,344,361; June 22; v. 275; p. 720.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Governor-controlled throttle-valve. No. 1,344,362; June 22; v. 275; p. 721.
Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,344,363; June 22; v. 275; p. 721.
Turner, Alonzo G., Hanksville, Utah. Non-cloggable self-cleaning screen. No. 1,343,292; June 15; v. 275; p. 445.
Turner, Edward A., Casper, Wyo. Transferable cradle. No. 1,344,009; June 22; v. 275; p. 652.
Turner, James M., Florence, Ala. Store construction. No. 1,343,801; June 15; v. 275; p. 546.
Turner, Martha K., Chicago, Ill. Sifter powder-box. No. 1,341,951; June 1; v. 275; p. 67.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,343,694; June 15; v. 275; p. 525.
Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Reversible brake-valve handle. No. 1,343,695; June 15; v. 275; p. 525.
Turney, William E. (See Miller, R., and Turney.)
Twombly, Harry D., Norfolk, Nebr., assignor to Crane Puller Company, Arlington, Mass. Arbor-press. No. 1,343,015; June 8; v. 275; p. 328.
Tyler, Lucius S., Boston, Mass. Picture-hook. No. 1,343,855; June 15; v. 275; p. 557.
Tyrrell, Claude U., Chicago, Ill. Bubble-blower. No. 1,344,104; June 22; v. 275; p. 670.
Tyson, Andrew C., Kissimmee, Fla. Billiard-cue lock. No. 1,342,517; June 2; v. 275; p. 229.
U. S. Industrial Alcohol Co. (See Haner, Carl, Jr., assignor.)
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
Udale, Stanley M., Buffalo, N. Y. Aero-engine control. No. 1,345,037; June 29; v. 275; p. 916.
Udell, Henry A., Racine, Wis. Stepladder. No. 1,342,881; June 8; v. 275; p. 302.
Uhl, Henry W., Freeport, assignor, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y. Magneto-electric machine. No. 1,345,331; June 29; v. 275; p. 973.
Uhl, Robert E., Greenfield, Ohio. Supporter. No. 1,344,068; June 22; v. 275; p. 664.
Underdahl, Albert, Cannon Falls, Minn. Gas-turbine. No. 1,342,314; June 1; v. 275; p. 137.
Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
Underwood Typewriter Company. (See Funk, Rufus B., assignor.)
Underwood Typewriter Company. (See Horn, Nicholas.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Lorenz, William A., assignor.)
Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)
Union Switch & Signal Company, The. (See Harrington, Clinton O., assignor.)
Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
Unit Railway Car Company. (See Stanley, Freelan O., assignor.)
United Bottle Machinery Co. (See Sears, Sydney L., assignor.)
United Engineering & Foundry Company. (See Bark, Arnold P., assignor.)
United Filters Corporation. (See Sweetland, Ernest J., assignor.)
United Mattress Machinery Company. (See Porter, Edwin F., assignor.)
United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)
United Shoe Machinery Corporation. (See Bilello, Thomas W., assignor.)
United Shoe Machinery Corporation. (See Boulton, G., and Gorsuch, assignors.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)
United Shoe Machinery Corporation. (See Drey, Wilfred J., assignor.)
United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)
United Shoe Machinery Corporation. (See Glidden, Walter J., assignor.)
United Shoe Machinery Corporation. (See Graydon, Thomas H., assignor.) (Reissue.)
United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
United Shoe Machinery Corporation. (See Heys, John J., assignor.)
United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Latham, Albert, assignor.)
United Shoe Machinery Corporation. (See Levangie, John M., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)
United Shoe Machinery Corporation. (See Rumney, Fred A., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Corporation. (See Standish, John F., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)
United States Envelope Company. (See Langguth, Wilhelm, assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
United States Ferro-Alloys Corporation. See Sleard, Hugh C., assignor.)
United States Spring Company. (See Riedele, Philip, assignor.)
United States Window Glass Company. (See Allan, James H., assignor.)
Universal Electric Welding Company. (See Lachman, Maurice, assignor.)
Universal Fixture Corporation. (See Lough, Hector V., assignor.)
Universal Grinding Machine Company. (See Robertson, A. C., and Volk, assignors.)
Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)
Universal Optical Corporation. (See Searles, Wayne S., assignor.)
Universal Oxygen Company. (See Mueller, Rudolph J. J., assignor.)
Universal Tide Power Co. (See Knowlton, John A., assignor.)
Unsworth, John, New York, N. Y. Slide. No. 1,343,598; June 15; v. 275; p. 505.
Uppling, Joseph D., Roxbury, Mass. Roller-skate. No. 1,345,038; June 29; v. 275; p. 916.
Urbanek, Joseph, Chicago, Ill. Non-skidding device for wheels. No. 1,345,291; June 29; v. 275; p. 966.
Urbina, Fernando, Mexico, Mexico. Pipe-line. No. 1,344,321; June 22; v. 275; p. 712.
Urie, David A., Chicago, Ill. Receptacle-filling machine. No. 1,343,696. June 15; v. 275; p. 525.
Ursino, Pasquale, Ellensburg, Wash. Ballast-surfacer. No. 1,343,533; June 15; v. 275; p. 493.
Vacuum Heat Manufacturing Company. (See Houck, Martin, assignor.)
Valente, Alessandro, and M. and S. Curzon, London, England. Safety-razor. No. 1,345,039; June 29; v. 275; p. 916.
Vallender, Francis H., Arlington, Mass. Casting apparatus. No. 1,343,016; June 8; v. 275; p. 329.
Van De Voort, Camiel, Haledon, N. J. Picking-motion-checking means for looms. No. 1,342,726; June 8; v. 275; p. 270.
Van der Leun, Cornelis, The Hague, Netherlands. Lock. No. 1,342,075; June 1; v. 275; p. 90.
Van Dorn, Herbert E., Chicago, Ill. Car-coupling. No. 1,344,780; June 29; v. 275; p. 868.
Van Iterson, Frederick K. T. (See Kuypers, Gerard, assignor.)
Van Meter, George F., Indianapolis, Ind. Adjustable caster. No. 1,345,294; June 29; v. 275; p. 966.
Van Ornum, Harry G., Piercefield, N. Y. Paper-making machine. No. 1,342,655; June 8; v. 275; p. 256.
Van Sant, Victor H., Newark, N. J. Air-inlet device. No. 1,342,193; June 1; v. 275; p. 114.
Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Magnetic contactor. No. 1,341,867; June 1; v. 275; p. 50.
Van Viersen, Jacob H., The Hague, Netherlands. Bicycle-lock. No. 1,343,856; June 15; v. 275; p. 558.
Van Wormer Arba, Fort Wayne, Ind. Shutter for cinematographs. No. 1,342,076; June 1; v. 275; p. 91.
Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Forming tubes. No. 1,344,105; June 22; v. 275; p. 670.
Vandamark, Olive E., Los Angeles, Calif. Curler. No. 1,345,040; June 29; v. 275; p. 917.
Vandenburgh, Warren E., and G. S. Grems, Milford, Iowa. Reinforcement for wheel knuckle-joints. No. 1,344,192; June 22; v. 275; p. 687.
Vanderdonck, Alphonse, Brooklyn, N. Y. Pulley, brake, and grip. No. 1,345,292; June 29; v. 275; p. 966.
Vanderhoof, Herbert H., San Francisco, Calif. Violin-mute. No. 1,344,968; June 29; v. 275; p. 903.
Vanerka, Albert C., Chicago, Ill. Window-shade carrier. No. 1,345,293; June 29; v. 275; p. 966.

Vapor Car Heating Company, Inc. (See Schreiber, Edward A., assignor.)
Varicle, Roger H., Los Angeles, Calif. Garment-hanger. No. 1,341,827; June 1; v. 275; p. 42.
Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
Varley, Richard, Englewood, N. J. Electrical system. No. 1,344,463; June 22; v. 275; p. 741.
Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Circuit-controller for explosive-engines. No. 1,344,464; June 22; v. 275; p. 741.
Varney, William T., Vancouver, British Columbia, Canada. Distributer for rock-pulp. No. 1,342,727; June 8; v. 275; p. 271.
Vaudreuil, Edward J., Eau Claire, Wis. Preparing green beans for canning; No. 1,344,069; June 22; v. 275; p. 664.
Vaughan, David F., Riverton, N. J. Combined tie-plate and rail-brace. No. 1,342,194; June 1; v. 275; p. 114.
Vedder, Dwight G., Bakersfield, Calif. Method and apparatus for shutting water out of oil-wells. No. 1,342,780; June 8; v. 275; p. 282.
Vedder, Dwight G., Bakersfield, Calif. Shutting a deleterious fluid out of value-producing wells. No. 1,342,781; June 8; v. 275; p. 282.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Operating device for voting-machine registers. No. 1,342,476; June 8; v. 275; p. 222.
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Veith, Paul, San Francisco, Calif. Door-hasp. No. 1,342,361; June 1; v. 275; p. 146.
Venable, Wm. H., *et al.* (See Clark, Cornelius S., assignor.)
Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,344,969; June 29; v. 275; p. 903.
Verdesca, Arthur, West New York, N. J. Air-hammer attachment. No. 1,344,523; June 22; v. 275; p. 753.
Vereinigte Glanzstoff-Fabriken, A. G. (See Hesse, Leopold, assignor.)
Vervoort, Jules F., assignor of one-half to L. D. McJilton, Los Angeles, Calif. Gasket-sealing composition. No. 1,341,952; June 1; v. 275; p. 67.
Vervoort, Lambert H., New York, N. Y. Bearing. No. 1,344,524; June 22; v. 275; p. 753.
Vest, Robert A., Pototoc, Tex. Seed-selecting mechanism. No. 1,343,802; June 15; v. 275; p. 546.
Vetter, Joseph, Toledo, Ohio. Automobile-top. No. 1,341,687; June 1; v. 275; p. 14.
Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)
Vick, Henry, Chicago, Ill. Draft-damper mechanism for furnaces. No. 1,341,868; June 1; v. 275; p. 50.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Victor Apparatus Company. (See Clifford, Fred W., assignor.)
Vincent, Antonio, Oakland, Calif. Trip-hammer. No. 1,342,782; June 8; v. 275; p. 282.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,344,279; June 22; v. 275; p. 704.
Vincent, William H., Park Side, South Australia, Australia. Cook-stove attachment for gas-jets. No. 1,345,295; June 29; v. 275; p. 967.
Virag, John, Dayton, Ohio. Signal and gate-operating means for railway-crossings. No. 1,344,525; June 22; v. 275; p. 753.
Vis, George A., assignor, by mesne assignments, to Brown-McLaren Manufacturing Co., Detroit, Mich. Valve. No. 1,344,364; June 22; v. 275; p. 721.
Vitaslide Company. (See Gilmore, Earl L., assignor.)
Voeleker, Henry. (See Johnson, Frank P., assignor.)
Vögler, Albert, Dortmund, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing steel. No. 1,342,701; June 8; v. 275; p. 265.
Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Panic-bolt. No. 1,345,041; June 29; v. 275; p. 917.
Volckhausen, Julius, Weehawken, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Valve. No. 1,341,828; June 1; v. 275; p. 43.
Volk, Frank. (See Robertson, A. C., and Volk.)
Volz, Otto, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing solid toilet and household soaps in cake or powder form. No. 1,342,783; June 8; v. 275; p. 282.
Von Kando, Kalman, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suspension of liquid-containers on railway-vehicles. No. 1,343,241; June 15; v. 275; p. 436.
Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Means for supporting gas-holding cylinders. No. 1,345,042; June 29; v. 275; p. 917.
Vosper, William W., Toledo, Ohio. Power means for work threading or cutting units. No. 1,344,280; June 22; v. 275; p. 704.
Voss, Johann H. H., Mount Vernon, N. Y. Automatic ring-plate valve. No. 1,343,534; June 15; v. 275; p. 493.
Voss, William H., Davenport, Iowa. Wringer. No. 1,344,835; June 29; v. 275; p. 879.
Wachenheimer Bros. (See Hultman, C. G., and Wachenheimer, assignors.)
Wachenheimer Bros. (See Wachenheimer, Harry, assignor.)
Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Locket. No. 1,342,035; June 1; v. 275; p. 83.
Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Bracelet. No. 1,344,365; June 22; v. 275; p. 721.
Wachniak, John, New York, N. Y. Automobile sled. No. 1,342,410; June 1; v. 275; p. 155.
Wachty, Angelica, South San Francisco, Calif. Clamp. No. 1,342,362; June 1; v. 275; p. 146.
Waern, James D., South Melbourne, Victoria, Australia. Shaft-hanger or plumber-block. No. 1,344,527; June 22; v. 275; p. 754.
Wahl Company, The. (See Boa, Robert G. C., assignor.)
Wahlert, Henry A., assignor to The American Brake Company, St. Louis, Mo. Hand-brake. No. 1,343,697; June 15; v. 275; p. 526.
Wainwright, Joseph E., Brooklyn, N. Y. Valve-grinding tool. No. 1,345,043; June 29; v. 275; p. 917.
Waite, Guy B., New York, N. Y. Antiskid device for tires. No. 1,343,293; June 15; v. 275; p. 445.
Waite, Guy B., New York, N. Y. Tread-block for tires. No. 1,343,294; June 15; v. 275; p. 446.
Waite, Harry F., New York, N. Y. X-ray system. No. 1,343,599; June 15; v. 275; p. 506.
Wakefield, Richard E. B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding-tool. No. 1,343,242. June 15; v. 275; p. 437.
Walas, Antoni, Chicago, Ill. Picture-frame. No. 1,342,477; June 8; v. 275; p. 222.
Walden, Marcus A., assignor to Frank Draber, San Francisco, Calif. Cooking-vessel and cover therefor. No. 1,344,836; June 29; v. 275; p. 879.
Waldref, Grant. (See Mason, Charles E., assignor.)
Waldrep, Granville J., Fannett, Tex. Float-controlled liquid-gaging and cut-off means. No. 1,344,663; June 29; v. 275; p. 845.
Wales Adding Machine Company. (See Pentecost, Arthur, assignor.)
Wales, Charles, New Haven, Conn., assignor to Federal Adding Machine Corporation, New York, N. Y. Machine having sliding carriage. No. 1,344,837; June 29; v. 275; p. 879.
Walgren, John A., Decatur, Ill. Collapsible container. No. 1,344,601; June 22; v. 275; p. 768.
Walk, Jasper J., Oakland, Calif. Rotating internal-combustion engine. No. 1,344,158; June 22; v. 275; p. 680.
Walker, Fred M., Detroit, Mich. Hydrocarbon-burner. No. 1,341,688; June 1; v. 275; p. 15.
Walker, Harry R., Galatia, Ill. Intensifier. No. 1,344,528; June 22; v. 275; p. 754.
Walker, Malcolm, Glasgow, Scotland. Electrically-operated friction-clutch. No. 1,342,270; June 1; v. 275; p. 129.
Walker, Richard E., Roanoke, Va. Convertible railway-car. No. 1,344,322; June 22; v. 275; p. 713.
Walker, Richard E., Roanoke, Va. Convertible railway-car. No. 1,344,323; June 22; v. 275; p. 713.
Walker, William F., Chicago, Ill. Mail-box. No. 1,344,281; June 22; v. 275; p. 704.
Walker, William T., Vinita, Okla. Change-speed mechanism. No. 1,342,195; June 1; v. 275; p. 115.
Wall, James E. (See Hart, G. M., and Wall.)
Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Footplate for electric locomotives. No. 1,343,698; June 15; v. 275; p. 526.
Wallace, Arthur T., *et al.* (See Mentzer, Claude E., assignor.)
Wallace, Erwin E. (See Newton, Frank J., assignor.)
Wallace, Herbert A., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,344,070; June 22; v. 275; p. 664.
Wallace, Philip B., Burlingame, and F. H. Fox, San Francisco, Calif. Gear-clutch for bending-machines. No. 1,342,363; June 1; v. 275; p. 146.
Wallace, William, Edinburgh, Scotland. Telemotor apparatus. No. 1,342,238; June 1; v. 275; p. 123.
Waller, Charles E. (See Bronstein, J. B., and Waller.)
Waller, Robert, Pittsburgh, Pa. Automatic train-stop. No. 1,343,857; June 15; v. 275; p. 558.
Walmsley, Cuthbert H., Eccles, England. Collapsible chair. No. 1,341,689; June 1; v. 275; p. 15.
Walter, Ernest, Montclair, N. J. Light-weight artificial cement stone for building purposes. No. 1,344,324; June 22; v. 275; p. 713.
Walter, Harrison B., Danville, Ill. Combination-dies for punching, creasing, and finishing the heads of solid-end paper boxes. No. 1,342,239; June 1; v. 275; p. 123.
Walter, Harrison B., Philadelphia, Pa. Cutting-blade for stapling-machines. No. 1,342,240; June 1; v. 275; p. 124.
Walter, Henry C., Bridgeport, Conn., assignor to The Locomobile Company of America, New York, N. Y. Machine for and method of cutting gears. No. 1,341,953; June 1; v. 275; p. 67.

Waltman, Walter M., West New Brighton, assignor to R. S. Hart, New York, N. Y. Pipe connection for junction-boxes and the like. No. 1,343,877; June 15; v. 275; p. 562.
Wander, Joseph, assignor to S. Wander & Sons Chemical Co., Inc., Albany, N. Y. Packaging pulverulent materials. No. 1,344,664; June 29; v. 275; p. 846.
Wander, S., & Sons Chemical Co. (See Wander, Joseph, assignor.)
Wappat, Fred W., Pittsburgh, Pa. Reversing mechanism. No. 1,344,606; June 22; v. 275; p. 770.
Ward, James C., Little Rock, Ark. Whistle. No. 1,342,315; June 1; v. 275; p. 137.
Wardlin, Halford B., Rochester, N. Y. Pen. No. 1,345,044; June 29; v. 275; p. 918.
Ware, Joseph L., Minneapolis, Minn. Extensible automobile. No. 1,342,139; June 1; v. 275; p. 103.
Ware, Joseph L., Minneapolis, Minn. Casting. No. 1,343,017; June 8; v. 275; p. 329.
Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Disk harrow. No. 1,344,159; June 22; v. 275; p. 680.
Warner, Emill, Chicago, Ill. Apparatus for forming metallic tubes. No. 1,343,946; June 22; v. 275; p. 640.
Warner, Martin, and C. Whetstone, Akron, Ohio. Window-shade attachment. No. 1,343,859; June 15; v. 275; p. 558.
Warner, Stewart G., Lynn, Mass. Clutch-lever stop for motor-vehicles. No. 1,344,602; June 22; v. 275; p. 769.
Warren, James J., Seattle, Wash. Excavator. No. 1,345,296; June 29; v. 275; p. 967.
Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Wall-paper and making it. No. 1,344,570; June 22; v. 275; p. 762.
Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Paper-making apparatus. No. 1,344,603; June 22; v. 275; p. 769.
Warren, John M. (See Gore, Jacob L., assignor.)
Wartman, Alven L., Oakland, Calif. Rail-joint. No. 1,344,604; June 22; v. 275; p. 769.
Washburn-Crosby Company. (See Bakke, Julius O., assignor.)
Washington, George W., Columbus, Miss. Float-operated circuit-closer. No. 1,343,947; June 22; v. 275; p. 640.
Wassell, Clifford R., assignor to Conlon Electric Washer Company, Inc., Chicago, Ill. Electric heating element. No. 1,344,282; June 22; v. 275; p. 705.
Waterbury Clock Co. (See Linden, John P., assignor.)
Waters, James P., Detroit, assignor, by mesne assignments, to Forge Products Corporation, Ann Arbor, Mich. High-speed steel and forming and forging same. No. 1,345,045; June 29; v. 275; p. 918.
Watres, Reyburn, Scranton, Pa. Lubricating system for steam-engines. No. 1,342,077; June 1; v. 275; p. 91.
Watson, Annie H., executrix. (See Watson, Thomas T. and J. W.)
Watson, Chauncey R., *et al.* (See Hachmann, Frederick, assignor.)
Watson, George W., Boston, Mass. Child's vehicle. No. 1,341,768; June 1; v. 275; p. 31.
Watson, John W. (See Watson, Thomas T. and J. W.)
Watson, Oliver E., Dayton, Ohio. Sanitary bottle-crate. No. 1,341,869; June 1; v. 275; p. 50.
Watson, Robert B., and J. C. Kitterman, Corydon, Ind. Fly-exit for screen doors and windows. No. 1,343,069; June 8; v. 275; p. 339.
Watson, Thomas T., deceased, and J. W. Watson, Wayne, Pa.; A. H. Watson, executrix. Mileage-indicator for tires. No. 1,343,535; June 15; v. 275; p. 493.
Watts, Frank E., Detroit, Mich., assignor to Hupp Motor Car Corporation, Richmond, Va. Engine-starter. No. 1,342,478; June 8; v. 275; p. 222.
Waugh Draft Gear Company. (See Davidson, Arthur C., assignor.)
Wayne Specialty Manufacturing Corporation. (See Roblin, Brock R., assignor.)
Weagant, Roy A., Roselle N. J., assignor, by mesne assignments, to Radio Corporation of America. Wireless signaling apparatus. No. 1,342,399; June 1; v. 275; p. 153.
Weaver, Ira A., assignor to the Weaver Manufacturing Company, Springfield, Ill. Tire-changer. No. 1,341,727; June 1; v. 275; p. 22.
Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Tire-changing mechanism. No. 1,341,729; June 1; v. 275; p. 23.
Weaver, Ira A., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Light-tractor gang-plow. No. 1,342,479; June 8; v. 275; p. 222.
Weaver, Ira A., and J. Sternaman, Jr., assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-changing machine. No. 1,341,726; June 1; v. 275; p. 22.
Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-changing appliance. No. 1,341,728; June 1; v. 275; p. 23.
Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-removing appliance. No. 1,341,730; June 1; v. 275; p. 23.
Weaver, John A., Baltimore, Md. Insulated tool. No. 1,343,101; June 8; v. 275; p. 345.
Weaver Manufacturing Company. (See Weaver, I. A., and Sternaman, assignors.)
Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)
Webb, John W., Chicago, Ill. Flying-machine. No. 1,344,283; June 22; v. 275; p. 705.
Webber, John J., Rochester, N. Y. Baby-walker. No. 1,342,518; June 8; v. 275; p. 230.
Webber, William P., Brooklyn, N. Y. Thermal circuit-closer. No. 1,343,803; June 15; v. 275; p. 547.
Weber, Christopher J. M. (See Weber, Frank R. and C. J. M.)
Weber, Frank R. and C. J. M., St. Paul, Minn. Oiling device for journal-boxes. No. 1,344,465; June 22; v. 275; p. 741.
Weber, Fritz, New York, N. Y. Slub-catcher. No. 1,343,162; June 8; v. 275; p. 346.
Weber, Jacob L., Chicago, Ill. Coat-hanger. No. 1,344,665; June 29; v. 275; p. 846.
Webster Company. (See Wemmell, William G., assignor.)
Webster, Edward L., Wheatland, Wyo. Envelop. No. 1,344,071; June 22; v. 275; p. 664.
Webster Electric Company. (See Stark, John R., assignor.)
Wechsler, Louis, New York, N. Y. Mop and brush holder. No. 1,342,036; June 1; v. 275; p. 83.
Wedlock, Frank V., Chicago, Ill., assignor to Featheredge Rubber Company. Heat-insulating fabric. No. 1,345,046; June 29; v. 275; p. 918.
Wedmore, Edmund B., Hendon, England, assignor to General Electric Company. Protective device. No. 1,343,018; June 8; v. 275; p. 329.
Weeks, Shirley S., Oakland, Calif. Automatic gas-analyzer. No. 1,345,047; June 29; v. 275; p. 918.
Weeks, Walter S., Berkeley, Calif. Compressor apparatus. No. 1,343,536; June 15; v. 275; p. 493.
Wegener, William E., Chicago Heights, Ill. Sheet-gripper. No. 1,343,537; June 15; v. 275; p. 493.
Weida, Harry, Highland Park, N. J., assignor to The India Rubber Company. Hard-rubber battery-jar and making same. No. 1,343,380; June 15; v. 275; p. 463.
Weidely, George A., Indianapolis, Ind., assignor to The Cleveland Tractor Company, Euclid, Ohio. Internal-combustion engine. No. 1,345,048; June 29; v. 275; p. 918.
Weightman, William A. (See Reifsnyder, J. D., and Weightman.)
Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Producing covered box-shells. No. 1,341,954; June 1; v. 275; p. 67.
Weil, Edward L., Kearney, N. J. Washer for the stems of valves. No. 1,344,744; June 29; v. 275; p. 861.
Weil, Maximilian, assignor, by mesne assignments, to National Phone Company, Inc., New York, N. Y. Telephonic apparatus. No. 1,345,049; June 29; v. 275; p. 919.
Weiland, Alfred, Philadelphia, Pa. Carbureter for internal-combustion engines. No. 1,345,297; June 29; v. 275; p. 997.
Weiland, Alfred, New York, N. Y. Carbureter. No. 1,345,298; June 29; v. 275; p. 967.
Wein, Jens D., assignor to Wein Manufacturing Corporation, Troy, N. Y. Internal-combustion engine. No. 1,343,858; June 15; v. 275; p. 558.
Wein Manufacturing Corporation. (See, Wein, Jens D., assignor.)
Wein Sales Corporation. (See Coughlin, Joseph D., assignor.)
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Making triple seams. No. 1,341,769; June 1; v. 275; p. 31.
Weis, Albert H., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Sewing mechanism. No. 1,344,284; June 22; v. 275; p. 705.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Cutting attachment for cutting-machines. No. 1,342,008; June 1; v. 275; p. 77.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Simultaneously cutting and sewing shirts and the like. No. 1,342,009; June 1; v. 275; p. 77.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Manufacturing union-suits and drawers. No. 1,342,010; June 1; v. 275; p. 78.
Weise, Alvin P., Detroit, Mich. Sanding device for automobiles. No. 1,342,316; June 1; v. 275; p. 137.
Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
Welch, Clarence R., Denver, Colo. Lock for steering-posts of automobiles. No. 1,342,728; June 8; v. 275; p. 271.
Welch, Emery L., Lima, Ohio. Electrical detecting-machine. No. 1,342,835; June 8; v. 275; p. 293.
Welch, Horace H. (See Adams, J. L., Jr., and Welch.)
Welch, Jesse C., Tacoma, Wash. Wheel. No. 1,342,784; June 8; v. 275; p. 283.
Welin, Axel, London, England, assignor to The American Balsa Company, Inc. Crane. No. 1,342,480; June 8; v. 275; p. 222.
Wells, Chandler, Buffalo, N. Y. Windshield or the like. No. 1,344,010; June 22; v. 275; p. 652.
Wells, Frank E. (See Wells, Willet C. and F. E.)
Wells, Frederick L., Rutland, Vt. Automobile-lock. No. 1,343,424; June 15; v. 275; p. 471.

Wells, Willet C. and F. E., Columbus, Ohio. Apparatus for expressing wax from petroleum distillates. No. 1,344,745; June 29; v. 275; p. 861.
Welsh, Harry G., Ashland, Ky. Apparatus for dislodging drilling-tools. No. 1,345,299; June 29; v. 275; p. 968.
Welsh, James B. (See Spoden, H. J., and Welsh.)
Wemmell, William G., assignor to Webster Company, North Attleboro, Mass. Match-box. No. 1,344,746; June 29; v. 275; p. 861.
Wendtland, William, Sr., Shiner, Tex. Plow. No. 1,342,836; June 8; v. 275; p. 293.
Wenner, Frank, Washington, D. C., and F. J. Martel, Hanover, N. H. Synchronized airplane-gun-control system. No. 1,342,729; June 8; v. 275; p. 271.
Wennerstrom, Charles R., New York, N. Y. Extension-table. No. 1,342,481; June 8; v. 275; p. 222.
Wennerström, Karl G., Bartange, Sweden. Producing cement of liquid slags in electric furnaces. No. 1,343,948; June 22; v. 275; p. 640.
Wenning, John, New York, N. Y. Automobile-lock. No. 1,343,990; June 22; v. 275; p. 648.
Wentworth, Jesse S., Norwood, Ohio. Can-forming mandrel. No. 1,342,575; June 8; v. 275; p. 241.
Werner, Joseph R., Granite City, Ill. Hinge. No. 1,341,690; June 1; v. 275; p. 15.
Wersel, Frank B., Jr., Cincinnati, Ohio. Davenport. No. 1,342,785; June 8; v. 275; p. 283.
West, Elbert L., Somerville, and J. West, assignors to Premier Register Table Company, Boston, Mass. Printer's table. No. 1,343,600; June 15; v. 275; p. 506.
West, James. (See West, Elbert L. and J.)
Westbury, William, Okmulgee, Okla. Drawing glass cylinders. No. 1,344,325; June 22; v. 275; p. 713.
Westerberg, Carl A. A., Stockholm, Sweden. Apparatus for firing with pulverized or breeze-formed fuels. No. 1,344,666; June 29; v. 275; p. 846.
Western Electric Company. (See Bassett, George O., assignor.)
Western Electric Company. (See Beck, William O., assignor.)
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Conway, Roy D., assignor.)
Western Electric Company. (See Field, Joseph C., assignor.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Harlow, John B., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Lundell, A. E., and Clark, assignors.)
Western Electric Company. (See Lundell, A. E., and Stearn, assignors.)
Western Electric Company. (See Rainey, Paul M., assignor.)
Western Electric & Mfg. Company. (See Brackett, Quincy A., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Allcutt, Chester T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Brown, Harold W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Brown, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candy, Albert M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric and Manufacturing Company. (See Dapprich, Carl E. L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Darrah, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Eschholz, O. H., and Fahnoe, assignors.)
Westinghouse Electric & Manufacturing Company. (See Fahnoe, Hans, assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Huey, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kando, Kalman, assignor.)
Westinghouse Electric and Manufacturing Company. (See Kempton, W. H., Gudge, and Lauffer, assignors.)
Westinghouse Electric and Manufacturing Company. (See Klytzing, Reese T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kothny, Gottdank L. E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lammers, Edwins S., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Langley, Jesse R., assignor.)
Westinghouse Electric & Manufacturing Company. (See McClain, John R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Peters, John F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric and Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Slocum, George E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Starker, Charles W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Suczek, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Talley, Randal E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thompson, Russell G., assignor.)
Westinghouse Electric and Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wakefield, Richard E. B., assignor.)
Westinghouse Lamp Company. (See Jambor, John E., assignor.) (Reissue.)
Westwood, James, Brighouse, England. Adjustable set-square. No. 1,342,730; June 8; v. 275; p. 271.
Wetstein, Adolph. (See Stoeser, Walter G., assignor.)
Wetzel, Myron H. (See White, U. B., and Wetzel.)
Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Fireproof elevator-door. No. 1,342,482; June 8; v. 275; p. 223.
Wheatley, Leander D., Pendleton, Oreg. Advertising device. No. 1,344,250; June 22; v. 275; p. 698.
Wheeler, Alfred W., San Francisco, Calif. Double-seaming machine. No. 1,343,538; June 15; v. 275; p. 494.
Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
Wheeler, Frank G., assignor to Bleach Process Company, Appleton, Wis. Method of and apparatus for producing purified salt. No. 1,342,519; June 8; v. 275; p. 230.
Wheeler, Harold S., Tacoma, Wash. Building and paving block. (Reissue.) No. 14,904; June 29; v. 275; p. 976.
Wheeler, Harry B., Chicago, Ill. Sound-insulating device for building constructions. No. 1,342,610; June 8; v. 275; p. 247.
Whetstone, Charles. (See Warner, M., and Whetstone.)
Whisler, Chauncy P., assignor to Miller Rubber Company, Akron, Ohio. Mold. No. 1,343,425; June 15; v. 275; p. 471.
Whitaker, Dorothy V. D., Philadelphia, Pa. Sleeve-protector. No. 1,344,011; June 22; v. 275; p. 652.
Whitaker, George S., Gloversville, N. Y. Vacuum-cup-fastening means for dental suction-plates. No. 1,343,949; June 22; v. 275; p. 640.
Whitaker, George S., Gloversville, N. Y. Dental suction-plate. No. 1,343,950; June 22; v. 275; p. 640.
Whitaker-Glessner Company. (See Hill, Hugh G., assignor.)
White, David R., Chicago, Ill. Plant-irrigating device. No. 1,342,786; June 8; v. 275; p. 283.
White, Ernest C., assignor to Duplexallte Corporation, New York, N. Y. Grip-fitting for electric cord. No. 1,342,787; June 8; v. 275; p. 283.
White, James W., Bainbridge, Ga. Window. No. 1,344,529; June 22; v. 275; p. 754.
White, John J., Ashland, Mass. Wrapping material. No. 1,341,955; June 1; v. 275; p. 67.
White, John T., New York, N. Y. Kicking mule. No. 1,342,882; June 8; v. 275; p. 302.
White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Inking mechanism. No. 1,341,691; June 1; v. 275; p. 15.
White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Inking-roller-driving mechanism. No. 1,341,692; June 1; v. 275; p. 15.
White, Joseph, Piscataway township, and W. Eckhard, Plainfield, assignors to Hall Printing Press Company, Dunellen, N. J. Sheet-gage. No. 1,341,694; June 1; v. 275; p. 16.
White, Joseph, Piscataway township, N. J., assignor to Hall Printing Press Company, Dunellen, N. J. Plate-clamp. No. 1,345,300; June 29; v. 275; p. 968.
White, Joseph, Middlesex, assignor to Hall Printing Press Company, Dunellen, N. J. Printing-press. No. 1,341,693; June 1; v. 275; p. 16.
White, Union B., and M. H. Wetzel, Seattle, Wash. Card-distributing device. No. 1,341,695; June 1; v. 275; p. 16.

White, Walter W., 3. W., Denver, Colo. Toy. No. 1,342,037; June 1; v. 275; p. 83.
White, William W., New York, N. Y. Calendar. No. 1,343,601; June 15; v. 275; p. 506.
Whitin Machine Works. (See Boyd, James H., assignor.)
Whiting Foundry Equipment Company. (See Sjoberg, Sidney T., assignor.)
Whitmore, John P., South Pasadena, Calif. Making painted shade material. No. 1,341,956; June 1; v. 275; p. 67.
Whitney, Irving E., West Norwalk, Conn. Accelerator-pedal for automobiles. No. 1,344,466; June 22; v. 275; p. 741.
Whitney Machine Company. (See Whitney, Robert F., assignor.)
Whitney, Robert F., assignor to Whitney Machine Company, Winchester, Mass. Leather-working machine. No. 1,344,467; June 22; v. 275; p. 742.
Whittinghill, James W., Los Angeles, Calif. Oven. No. 1,341,829; June 1; v. 275; p. 43.
Whittlesey, Mary F. (See Elliot, Eloise F., assignor.)
Whitton, Warren B., Columbia, S. C. Vehicle-jack. No. 1,342,140; June 1; v. 275; p. 103.
Whyte, Samuel, Redhill, England. Case-hardening. No. 1,345,050; June 29; v. 275; p. 919.
Whyte, Samuel, Redhill, England. Manufacture of iron and steel. No. 1,345,051; June 29; v. 275; p. 919.
Whyte, William S., Bedford, Ind. Valve for pneumatic tools. No. 1,343,951; June 22; v. 275; p. 641.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Double-gear-transmission mechanism. No. 1,344,366; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Muffler for explosive-engines. No. 1,344,367; June 22; v. 275; p. 722.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Positive-reduction-steering transmission. No. 1,344,368; June 22; v. 275; p. 722.
Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,342,241; June 1; v. 275; p. 124.
Wickwire, Charles C., Cortland, N. Y. Internal-combustion engine. No. 1,342,483; June 8; v. 275; p. 223.
Wieck, John, Rewloc, Pa. Rail-fastener. No. 1,342,196; June 1; v. 275; p. 115.
Wiedmann, Arthur G., Kansas City, Mo. Stein. No. 1,344,072; June 22; v. 275; p. 664.
Wiegand, Henry M. (See Perry, Edward T., assignor.)
Wieland, Charles, Yankton, S. D. Tire-repair tool. No. 1,344,838; June 29; v. 275; p. 879.
Wiejgosz, Ignatz F., Milwaukee, Wis. Aeroplane starting and landing platform. No. 1,345,335; June 29; v. 275; p. 974.
Wieman, Herman A., Dallas, Tex. Shelving. No. 1,344,106; June 22; v. 275; p. 670.
Wiesehan, George W., Cleveland, Ohio. Cooking-cabinet. No. 1,343,539; June 15; v. 275; p. 494.
Wightman, Merle J., assignor, by mesne assignments, to Railway's Accessories Company, Seattle, Wash. Rail-joint. No. 1,343,070; June 8; v. 275; p. 339.
Wigle, Wilson B., Montebello, Calif. Clamp. No. 1,342,141; June 1; v. 275; p. 104.
Wigmore, William J., Oakland, and Oscar H. Fiddes, San Francisco, Calif. Electromagnetic elevator-door lock. No. 1,344,430; June 22; v. 275; p. 734.
Wikstrom, Edward, Lowell, Mass. Implement-holding device. No. 1,342,364; June 1; v. 275; p. 146.
Wikstrom, Malcolm U., Charlerol, assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa. Annealing-furnace. No. 1,343,019; June 8; v. 275; p. 329.
Wild, James E., and W. W. Caldwell, Fall River, Mass., assignors to The American Thread Company, Jersey City, N. J. Means for electrically controlling skein-mercerizing machines. No. 1,343,804; June 15; v. 275; p. 547.
Wild, Mount K. (See Francisco, Marshall E., assignor.)
Wileman, Hartford, Clay Center, Nebr. Spring-wheel. No. 1,344,012; June 22; v. 275; p. 653.
Wilkin, George W., Grangeville, Idaho. Differential. No. 1,344,107; June 22; v. 275; p. 670.
Wilkin, John T., assignor to The Connersville Blower Company, Connersville, Ind. Proportional governor. No. 1,341,696; June 1; v. 275; p. 16.
Will & Baumer Company, The. (See Engman, Evald J., assignor.)
Willard Storage Battery Company. (See Dislnger, Ernest, assignor.)
Willard, Theodore A., Cleveland, Ohio. Storage-battery separator and producing same. No. 1,342,611; June 8; v. 275; p. 247.
Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Refractory arch construction. No. 1,342,931; June 8; v. 275; p. 312.
Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Spacer-block for refractory arches. No. 1,343,243; June 15; v. 275; p. 437.
Williams, Charles E., Pittsburgh, Pa. Tire. No. 1,343,860; June 15; v. 275; p. 559.
Williams, Charles E., Pittsburgh, Pa. Tire. No. 1,343,861; June 15; v. 275; p. 559.
Williams, Charlie, assignor of one-third to N. Nelson, Granite City, Ill. Finishing iron and steel plates. No. 1,342,484; June 8; v. 275; p. 223.
Williams, Davis S., Los Angeles, Calif. Jointed figure. No. 1,345,052; June 29; v. 275; p. 919.
Williams, Earl B., and B. E. Rieg, Los Angeles, Calif. Auxillary windshield. No. 1,345,053; June 29; v. 275; p. 919.
Williams, Edwin C. (See Gerke, J. and N., and Williams.)
Williams Foundry & Machine Company, The. (See Arthur, James W., assignor.)
Williams, Frank W. (See Parnall, Archie E., assignor.)
Williams, Frank W., Chicago, Ill. Talking-machine needle. No. 1,344,839; June 29; v. 275; p. 880.
Williams, George. (See Baker, G. W., and Williams.)
Williams, George H., Kearney, Nebr. Nest. No. 1,343,071; June 8; v. 275; p. 339.
Williams, Harrison R., Chicago, Ill., assignor to Dearborn Truck Company. Device for automobile conversion. No. 1,342,142; June 1; v. 275; p. 104.
Williams, Harrison R., Chicago, Ill., assignor to Dearborn Truck Company. Adjustable shaft-hanger for motor-vehicles. No. 1,342,143; June 1; v. 275; p. 104.
Williams, Henry A., Kinston, N. C. Heel attachment for shoes. No. 1,343,602; June 15; v. 275; p. 506.
Williams, Jacob D. W., Tabor, N. C. Device for teaching penmanship. No. 1,343,244; June 15; v. 275; p. 437.
Williams, James W., Spokane, Wash. Steam-generator for canning and cooking devices. No. 1,344,326; June 22; v. 275; p. 713.
Williams, John H., Stockton, Calif. Grease-retainer for axles of motor-vehicles. No. 1,343,603; June 15; v. 275; p. 506.
Williams, Lacey Y., deceased, Toledo, Ohio; M. S. Dodd, administrator. Journal-box and lubricator for car-axle journals. No. 1,344,667; June 29; v. 275; p. 846.
Williams, Louis N. D., Ogontz, Pa. Facilitating the mechanical transfer of stitches from needles of knitting-machines. No. 1,344,468; June 22; v. 275; p. 742.
Williams Patent Crusher and Pulverizer Co. (See Campbell, Edward B., assignor. (Reissue.)
Williams, Roy W., Utica, N. Y. Floor-lifting device. No. 1,343,862; June 15; v. 275; p. 559.
Williams, Theodosius A., Battle Ground, Wash. Flashlight holder. No. 1,344,073; June 22; v. 275; p. 664.
Williams, William E., Chicago, Ill. Submarine detecting and destroying apparatus. No. 1,344,074; June 22; v. 275; p. 665.
Williams, William F. (See Parker, B., and Williams.)
Willis, Anthony E., *et al.* (See Willis, Reuben M., assignor.)
Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,342,242; June 1; v. 275; p. 124.
Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,345,054; June 29; v. 275; p. 919.
Willis, Gordon J., *et al.* (See Willis, Reuben M., assignor.)
Willis, John, assignor to American Plate Glass Company, Kane, Pa. Sand-grading apparatus for glass-grinding machinery. No. 1,342,038; June 1; v. 275; p. 83.
Willis, Reuben M., assignor of one-third to G. J. Willis and one-third to A. E. Willis, Chanute, Kans. Self-propelled vehicle. No. 1,344,108; June 22; v. 275; p. 671.
Willison, Walter W. (See McColl, F. P., and Willison.)
Willour, Le Roy, assignor to The Ashland Products Company, Ashland, Ohio. Automobile-fan. No. 1,345,055; June 29; v. 275; p. 919.
Willsie, Henry E., Darlen, Conn., assignor to The American Refrigeration Company. Refrigerating-machine. (Reissue.) No. 14,884; June 15; v. 275; p. 565.
Willsie, Henry E., Darlen, Conn., assignor to The American Refrigeration Company. Ice-machine. (Reissue.) No. 14,885; June 15; v. 275; p. 565.
Willys, John N. (See MacNichol, George P., assignor.)
Willys-Overland Company, The. (See Lightner, Arthur D.)
Wilputte, Alice A. (See Wilputte, Louis, assignor.)
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven-door mechanism. No. 1,344,218; June 22; v. 275; p. 692.
Wilson, Catherine V., Toledo, Ohio. Flatiron-rest. No. 1,343,699; June 15; v. 275; p. 526.
Wilson, Connie H., and C. G. Lee, Asheville, N. C. Attachment for thermos-bottles. No. 1,342,883; June 8; v. 275; p. 302.
Wilson, Elihu C., Los Angeles, Calif. Hoist. No. 1,341,957; June 1; v. 275; p. 68.
Wilson, Elihu C. and W. W., Los Angeles, Calif., assignors to said W. W. Wilson. Underreamer. No. 1,344,327; June 22; v. 275; p. 714.
Wilson, Harrison D., Chicago, Ill. Sleeping-car. No. 1,342,702; June 8; v. 275; p. 265.
Wilson, James, West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Balancing device. No. 1,344,193; June 22; v. 275; p. 687.
Wilson, James M., assignor to R. S. Lanz, Newark, N. J. Relay for storage-battery-charging systems. No. 1,344,970; June 29; v. 275; p. 903.
Wilson, John M., Healdton, Okla. Container. No. 1,342,243; June 1; v. 275; p. 124.
Wilson, William W. (See Wilson, Elihu C. and W. W.)

Wilson, William W., Los Angeles, Calif. Apparatus for mineral separation. No. 1,341,770; June 1; v. 275; p. 31.

Wilson, William W., Los Angeles, Calif. Underreamer. No. 1,342,406; June 1; v. 275; p. 155.

Wiltsie, George C., Schenectady, N. Y. Can-washer. No. 1,342,485; June 8; v. 275; p. 223.

Wimperis, Herbert A., Minneapolis, Minn. Spring-oiler. No. 1,342,365; June 1; v. 275; p. 146.

Wimperis, Harry E., Goring-on-Thames, England. Instrument for aerial navigation. No. 1,343,952; June 22; v. 275; p. 641.

Winchester Repeating Arms Co. (See Jermain, Herbert F., assignor.)

Winchester Repeating Arms Company. (See Spiers, Frederick G., assignor.)

Winchester Repeating Arms Co. (See Terstyansky, Albert A., assignor.)

Winchester, William I., assignor to Laughlin Fruit Refiners, Inc., Los Angeles, Calif. Fruit-peel drier. No. 1,345,301; June 29; v. 275; p. 968.

Winger, Stover C., and A. Rickenbacher, Los Angeles, Calif. Electric speedometer. No. 1,341,958; June 1; v. 275; p. 68.

Wingert, John F., Jr., Brady township, Clearfield county, Pa. Tractor-coupling. No. 1,342,011; June 1; v. 275; p. 78.

Winkler, Carl, Berne, Switzerland. Printing-machine having an oscillating impression-cylinder. No. 1,345,302; June 29; v. 275; p. 968.

Winkley, Erastus E., Lynn, Mass. Bottle-handling mechanism. No. 1,344,013; June 22; v. 275; p. 653.

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,342,144; June 1; v. 275; p. 104.

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,342,366; June 1; v. 275; p. 146.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatic sewing-machine. No. 1,342,367; June 1; v. 275; p. 147.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shank-piece-laying machine. No. 1,344,781; June 29; v. 275; p. 868.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,344,782; June 29; v. 275; p. 869.

Winn, Warner A., Clarksville, Tenn. Rule for cutting roof-rafters. No. 1,343,604; June 15; v. 275; p. 507.

Winsall, Albert W. (See Smith, E. M., and Winsall.)

Winslow, Clark J., Correll, Minn. Rail-joint. No. 1,343,605; June 15; v. 275; p. 507.

Winston, Overton, Minneapolis, Minn. Headlight. No. 1,345,056; June 29; v. 275; p. 920.

Winter, Anna K., New York, N. Y. Circuit-closer for door-locks. No. 1,344,783; June 29; v. 275; p. 869.

Winters, David L., Edgewater, Md. Operating internal-combustion engines. No. 1,342,656; June 8; v. 275; p. 256.

Wion, George H. (See Hudd, A. E., and Wion.)

Wirebounds Patents Company. (See Healy, William P., assignor.)

Wiren, Carl E., Brooklyn, N. Y. Thermal circuit-closer. No. 1,342,317; June 1; v. 275; p. 137.

Wisner, Clark N., New Orleans, La. Picker-head. No. 1,341,959; June 1; v. 275; p. 68.

Wisnlewski, Felix, South Amboy, N. J. Rail-clamp. No. 1,342,078; June 1; v. 275; p. 91.

Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear. No. 1,343,295; June 15; v. 275; p. 446.

Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear. No. 1,343,296; June 15; v. 275; p. 446.

Wolcula, Michael, Detroit, Mich. Internal-combustion engine. No. 1,342,368; June 1; v. 275; p. 147.

Wolcott, Chandler, Rochester, N. Y. Keyboard. No. 1,342,244; June 1; v. 275; p. 124.

Wolf, Augustus, Chambersburg, Pa. Middlings-mill. No. 1,344,470; June 22; v. 275; p. 742.

Wolf, Charles, Philadelphia, Pa. Lock. No. 1,344,469; June 22; v. 275; p. 742.

Wolf, Ernest A. P., New York, N. Y. Loose-leaf book. No. 1,343,103; June 8; v. 275; p. 346.

Wolf, George D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. System for interconnecting manual and automatic telephone-exchanges. No. 1,343,489; June 15; v. 275; p. 484.

Wolfard, Merl R., Cambridge, Mass. Atomizing-nozzle. No. 1,342,486; June 8; v. 275; p. 223.

Wolfe, Guy F., Frederick, Md. Air compressor and regulator. No. 1,342,487; June 8; v. 275; p. 224.

Wolferman, Guido, Chicago, Ill. Bottle-stopper. No. 1,342,657; June 8; v. 275; p. 256.

Wolff, Lionel A., Los Angeles, Calif. Manufacturing felt shoes. No. 1,344,930; June 29; v. 275; p. 896.

Wolff, Michael J., St. Louis, Mo. Rotary automatic cornucopia-baking machine. No. 1,344,285; June 22; v. 275; p. 705.

Wolff, Michael J., St. Louis, Mo. Combined trimming and nesting machine for ice-cream cornucopias. No. 1,344,286; June 22; v. 275; p. 706.

Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,014; June 22; v. 275; p. 653.

Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,015; June 22; v. 275; p. 653.

Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,344,016; June 22; v. 275; p. 653.

Wolle, Leonora, Rockdale, Tex. Tatting-shuttle. No. 1,345,305; June 29; v. 275; p. 968.

Wolters, Carl F. (See Dick, R. H., and Wolters.)

Wolters, Leon A., assignor to The Thoro Corporation, Chicago, Ill. Means for attaching direction-sheets to cans. No. 1,343,953; June 22; v. 275; p. 641.

Woltmann, Emil C. A. (See Eisenhauer, E. W., Florman, and Waltmann.)

Woock, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Elbow check-valve. No. 1,341,870; June 1; v. 275; p. 51.

Woock, Walter R. (See Woock, Herbert J. and W. R.)

Wood, Alan D. (See Lewis, H. A., and Wood.)

Wood, Harold B., assignor to Gifford-Wood Company, Hudson, N. Y. Ice-conveyer. No. 1,341,697; June 1; v. 275; p. 16.

Wood, Joseph S., Cleveland, Ohio. Hatch-cover. No. 1,342,612; June 8; v. 275; p. 248.

Wood, Louis E., Farrell, Pa. Electric-light socket. No. 1,342,658; June 8; v. 275; p. 256.

Wood, Lorena M., Spokane, Wash. Electroller. No. 1,344,251; June 22; v. 275; p. 698.

Wood Newspaper Machinery Corporation. (See Nordfors, Conrad, assignor.)

Wood, Robert N., Dallas, Tex. Ignition device. No. 1,342,837; June 8; v. 275; p. 293.

Woodard, William E., Lima, Ohio. Locomotive. No. 1,341,961; June 1; v. 275; p. 68.

Woodland, Cecil R. and R., Liverpool, England. Apparatus for teaching codes as used in telegraphy. No. 1,343,754; June 15; v. 275; p. 537.

Woodland, Reginald. (See Woodland, Cecil R. and R.)

Woods, Alexander. (See Todhunter, R. T., Duke, and Woods.)

Woods, Charles S., Indianapolis, Ind. Wall-cleaning machine. No. 1,342,488; June 8; v. 275; p. 224.

Woods, Joseph P., Washington, D. C. Means employed in the classification of names, &c. No. 1,343,755; June 15; v. 275; p. 537.

Woodson, John B., Fayette, Mo. Wire-fence clamp. No. 1,341,698; June 1; v. 275; p. 17.

Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin-register. No. 1,344,840; June 29; v. 275; p. 880.

Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Station coin-register. No. 1,344,841; June 29; v. 275; p. 880.

Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Fare collecting and registering means. No. 1,344,842; June 29; v. 275; p. 880.

Woodward, John J., assignor of one-half to J. Colesby, Birmingham, England. Spanner. No. 1,343,882; June 15; v. 275; p. 563.

Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,197; June 1; v. 275; p. 115.

Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,489; June 8; v. 275; p. 224.

Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,342,490; June 8; v. 275; p. 224.

Woodworth, Harry A. (See Kepler, Darrell S., assignor.)

Wooldridge, James L., Decatur, Tex. Mote-board for cotton-gins. (Reissue.) No. 14,874; June 1; v. 275; p. 157.

Wooldridge, John, Temple, Tex. Doffing-brush. No. 1,344,843; June 29; v. 275; p. 880.

Woolley, Isaiah W. (See Berryhill, S. A., and Woolley.)

Woolson, Lionel M., Detroit, Mich., assignor to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,343,020; June 8; v. 275; p. 329.

Worden, Stanley B. T., Syracuse, N. Y., assignor to F. R. Henshaw, trustee, Indianapolis, Ind. Pneumatic controller. No. 1,344,328; June 22; v. 275; p. 714.

Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,343,297; June 15; v. 275; p. 446.

Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,343,298; June 15; v. 275; p. 446.

Worth, Barzillai G. (See Freygang, W. H., Kidde, and Worth.)

Worthington Pump and Machinery Corporation. (See Diserens, Paul, assignor.)

Wortman, George C., Denver, Colo. Rail-bracing-spike retainer. No. 1,344,109; June 22; v. 275; p. 671.

Wrenn Adding Machine Company, The. (See Wrenn, Herbert A., assignor.)

Wrenn, Herbert A., assignor to The Wrenn Adding Machine Company, Washington, D. C. Calculator. No. 1,341,962; June 1; v. 275; p. 68.

Wride, George T., Lethbridge, Alberta, Canada. Attachment for penholders and pencils to assist in the practice of penmanship. No. 1,342,576; June 8; v. 275; p. 242.

Wright, Carr W., Cincinnati, Ohio. System and educational appliance for military self-instruction. No. 1,342,520; June 8; v. 275; p. 230.

Wright, Charles B., assignor to Post Card Vending Machine Company, Chicago, Ill. Vending-machine. No. 1,344,160; June 22; v. 275; p. 681.

Wright, Charles V., Reynolds, Pa. Shaking-screen. No. 1,344,747; June 29; v. 275; p. 862.

Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Casing-head top. No. 1,343,426; June 15; v. 275; p. 471.

Wright, H., *et al.* (See Hachmann, Frederick, assignor.)

Wright, James, Liverpool, and J. Wright, Warrington, England. Tanning machinery. No. 1,343,756; June 15; v. 275; p. 537.

Wright, Jefferson G., Connell, assignor of one-third to W. F. Steinmeier, Eltopia, Wash. Washer. No. 1,344,194; June 22; v. 275; p. 687.

Wright, John. (See Wright, James and J.)

Wright, John R., Wheeling, Mo. Adjustable sag-gate. No. 1,341,963; June 1; v. 275; p. 69.

Wright, Joseph H., Henderson, Tex. Bracket. No. 1,342,659; June 8; v. 275; p. 256.

Wright, Thomas B., assignor to The Wright Traffic Signal Company, Chicago, Ill. Direction-indicating device. No. 1,342,788; June 8; v. 275; p. 283.

Wright Traffic Signal Company, The. (See Wright, Thomas B., assignor.)

Wright, Wilson M., C. Teeples, and J. J. Lamb, Jefferson, Iowa. Repairing radiators. No. 1,342,703; June 8; v. 275; p. 266.

Wupper, Cecilia. (See Best, William N., assignor.)

Nardell, Charles A., Utica, N. Y. Tank. No. 1,341,965; June 1; v. 275; p. 69.

Yaeger, William. (See Kost, S. A., and Yaeger.)

Yamada, Yoshimori, San Francisco, Calif. Photographic-plate holder. No. 1,343,653; June 15; v. 275; p. 516.

Yamamoto, Shikazo, Los Angeles, Calif. Reinforced broom. No. 1,344,784; June 29; v. 275; p. 869.

Yanacopoulos, George, New York, N. Y. Power-generating system. No. 1,342,318; June 1; v. 275; p. 138.

Yanagihara, Kichibei, Sakai, Osaka-Fu, Japan, assignor to Sakai Kako Celluloid Kwaisha, Ltd., Sakai, Japan. Protected toothbrush. No. 1,342,521; June 8; v. 275; p. 230.

Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,344,195; June 22; v. 275; p. 687.

Yelle, George. (See Kennedy, W. J., and Yelle.)

Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Display-stand for tires. No. 1,342,731; June 8; v. 275; p. 271.

Yennett, John, and E. T. Lonkert, Atlanta, Ga. Machine for making reel-frames. No. 1,341,964; June 1; v. 275; p. 69.

Yoder, Edward, Tulsa, Okla. Vehicle-towing device. No. 1,342,079; June 1; v. 275; p. 91.

York, Howard H., Logansport, Ind. Water-submerged air-chamber for water-pipes. No. 1,342,491; June 8; v. 275; p. 224.

Young, Albert F., Brooklyn, N. Y. Invisible suspenders. No. 1,342,704; June 8; v. 275; p. 266.

Young, Charles, York, Me. Holding device for one-armed persons. No. 1,343,606; June 15; v. 275; p. 507.

Young, Frederick W., New Haven, Conn. Flash and recoil reducer for firearms. No. 1,342,978; June 8; v. 275; p. 321.

Young, L. A., Industries, Inc. (See Young, Leonard A., assignor.)

Young, Leonard A., Detroit, Mich. Back-spring construction. No. 1,342,522; June 8; v. 275; p. 230.

Young, Leonard A., Highland Park, assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring-cushion. No. 1,343,167; June 8; v. 275; p. 358.

Young, Leonard A., Highland Park, Mich. Floor-board for automobiles. No. 1,343,168; June 8; v. 275; p. 358.

Young, Samuel, Yquitos, Peru. Combustion device. No. 1,344,668; June 29; v. 275; p. 846.

Yuncker, Clarence F. (See Riley, E., and Yuncker.)

Yungling, Paul, Los Angeles, Calif. Worm-gear construction for rotary drills, &c. No. 1,345,110; June 29; v. 275; p. 930.

Yuyama, Shigezo, New York, N. Y. Incandescent electric lamp. No. 1,341,966; June 1; v. 275; p. 69.

Zaboy, Maciej, assignor of one-half to W. Daniel, Allentown, Pa. Combination fountain-brush. No. 1,342,492; June 8; v. 275; p. 225.

Zahnter, Robert R., Kansas City, Mo. Sickle. No. 1,342,369; June 1; v. 275; p. 147.

Zawistowski, Martin, Brooklyn, N. Y. Grinder for rotary cloth-cutting machines. No. 1,341,699; June 1; v. 275; p. 17.

Zebrock, Louis S., Jr., Hastings, N. Y. Pen and pencil attachment. No. 1,343,245; June 15; v. 275; p. 437.

Zehringer, Howard A., assignor of one-third to Oscar L. Pond, Indianapolis, Ind. Short-circuiting lock for motor-vehicles and the like. No. 1,344,369; June 22; v. 275; p. 722.

Zeigler, William H., Long Island City, N. Y. Spark-plug. No. 1,344,530; June 22; v. 275; p. 754.

Zerenga, Bonaventure, Brooklyn, N. Y. Game apparatus. No. 1,344,669; June 29; v. 275; p. 847.

Zetzman, William, Post, Tex. Weeding device. No. 1,343,805; June 15; v. 275; p. 547.

Zieche, Paul R., Melville township, Woodbury county, Iowa. Tractor-wheel. No. 1,342,493; June 8; v. 275; p. 225.

Zied, Samuel, Philadelphia, Pa. Derrick for vehicles. No. 1,345,304; June 29; v. 275; p. 968.

Ziegler, Alfred P. (See Senseman, E. L., and Ziegler.)

Ziegler, Edwin S., York, Pa. Windshield-hinge. No. 1,344,844; June 29; v. 275; p. 880.

Ziegler, Louis V., Ridgefield Park, N. J. Separator for gas-stoves. No. 1,344,670; June 29; v. 275; p. 847.

Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors. No. 1,343,021; June 8; v. 275; p. 329.

Zimmer, Paul H., Schenectady, N. Y., assignor to General Electric Company. Starting device for electric motors. No. 1,343,022; June 8; v. 275; p. 330.

Zimmerman, Edgar A., Shamokin, Pa. Combined hair-plane and safety-razor. No. 1,342,494; June 8; v. 275; p. 225.

Zimpfer, William A., Jackson Center, Ohio. Corn-harvester. No. 1,344,017; June 22; v. 275; p. 653.

Zion, Isidor, Ridgefield, N. J. Toy device. No. 1,342,577; June 8; v. 275; p. 242

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A-Z Company, The. (See Hammer, Laurence G., assignor.)

Addis, Frank R., Allentown, Pa. Game-board. No. 55,344; June 29; v. 275; p. 976.

Aitken, Edward S., Bridgeport, Conn. Game-board. No. 55,404; June 8; v. 275; p. 364.

Alexander, Arthur S., assignor to The J. Alexander Manufacturing Company, New York, N. Y. Mirroscope-support. No. 55,345; June 29; v. 275; p. 976.

Alexander, J., Manufacturing Company, The. (See Alexander, Arthur S., assignor.)

American Metal Cap Company. (See Hammer, Charles, assignor.)

Anglo-American Pharmaceutical Corporation. (See Shropshire, George E., assignor.)

Ashland Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)

Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)

Bachmayer, Joseph J. (See Saxton, A. H., and Bachmayer.)

Baker, Stephen D., New York, N. Y. Towel-bar. No. 55,354; June 1; v. 275; p. 157.

Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article. Nos. 55,355–59; June 1; v. 275; p. 157.

Baudet, George A., New York, N. Y., assignor to The Baudet Manufacturing Company, Woonsocket, R. I. Combined pressure gage and regulator casing. No. 55,500; June 22; v. 275; p. 773.

Baudet Manufacturing Company, The. (See Baudet, George A., assignor.)

Bauer, Martha V., Washington, D. C. Friendship-token. No. 55,447; June 15; v. 275; p. 565.

Beckwith, William C., Chicago, Ill. Phonograph-cabinet. No. 55,405; June 8; v. 275; p. 364.

Becolas, Miltiades A., St. Louis, Mo. Condiment-holder. No. 55,360; June 1; v. 275; p. 158.

Belpedio, Jobby, Bridgeport, Conn. Talking-machine cabinet. No. 55,448; June 15; v. 275; p. 566.

Benson, Ivar, Seattle, Wash. Tone-chamber for phonographs. No. 55,361; June 1; v. 275; p. 158.

Benson, Ivar, Seattle, Wash. Phonograph-cabinet. No. 55,362; June 1; v. 275; p. 159.

Berry, Nella E., Buffalo, N. Y. Nail-buffer. No. 55,406; June 8; v. 275; p. 364.

Bess, Gustavus, Portland, Oreg. Statue. No. 55,546; June 29; v. 275; p. 976.

Biette, Henry C., Pittsburgh, Pa. Crystal coffee or tea service. No. 55,501; June 22; v. 275; p. 773.

Biflex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)

Bilott, Carmine, Larimer, Pa. Burial-casket container. No. 55,407; June 8; v. 275; p. 364.

Bitterman, Simon, *et al.* (See John, Charles E., assignor.)

Blackmon, Charles D. (See Smith, J. H., and Blackmon.)

Blanck & Company. (See Davis, Elizabeth A., assignor.)

Blanck & Company. (See Kümalehto, Thyra O., assignor.)

Blanck & Company. (See Meyer, Felix, assignor.)

Blankinship, John S., Lynchburg, Va. Phonograph-cabinet. No. 55,363; June 1; v. 275; p. 159.

Bogen, David, New York, N. Y. Souvenir. No. 55,408; June 8; v. 275; p. 364.

Bogert, Clarence, Demarest, N. J. Bubble-blower. No. 55,409; June 8; v. 275; p. 365.
Bolling, John E., assignor to Carrier Engineering Corporation, New York, N. Y. Paper-holder. No. 55,547; June 29; v. 275; p. 977.
Borris, Morris, Brooklyn, N. Y. Tone-arm. No. 55,449; June 15; v. 275; p. 566.
Boston Rubber Shoe Company. (See Piper, Walter E., assignor.)
Boyce, Harrison H., Forest Hills, N. Y. Combined motor-vehicle radiator-cap and temperature-indicating instrument. No. 55,502; June 22; v. 275; p. 773.
Boyle Needle Company, The. (See Carlson, Gustav A., assignor.)
Braden, James A., assignor to The Standard Parts Company, Cleveland, Ohio. Badge, emblem, or similar article. Nos. 55,548–51; June 29; v. 275; p. 977.
Brady, John B., Somerset, Md. Pin. No. 55,410; June 8; v. 275; p. 365.
Breitenstein, Arthur L., Akron, assignor to The Ashland Tire & Rubber Company, Ashland, Ohio. Tire-tread. No. 55,364; June 1; v. 275; p. 159.
Breitenstein, Arthur L., Akron, Ohio, assignor to World Tire Corporation, Chicago, Ill. Tire-tread. No. 55,411; June 8; v. 275; p. 365.
Brennan, John F., Williamsport, Pa. Automobile-tire rack. No. 55,552; June 29; v. 275; p. 977.
Brown, Bessie B., Raleigh, N. C. Toy jingle-hoop. No. 55,412; June 8; v. 275; p. 365.
Bugbee & Niles Company. (See King, Rufus, assignor.)
Carlson, Gustav A., assignor to the Boyle Needle Company, Chicago, Ill. Can-opener. No. 55,450; June 15; v. 275; p. 566.
Carraine, Eugene, Philadelphia, Pa. Handbag. No. 55,451; June 15; v. 275; p. 566.
Carrier Engineering Corporation. (See Bolling, John E., assignor.)
Central Glass Works. (See Balda, Joseph O., assignor.)
Champane, George J., Beachmont, Mass. Sounding-post tool. No. 55,365; June 1; v. 275; p. 159.
Chase, Winslow W., Washington, D. C. Therapeutic vacuum apparatus. No. 55,452; June 15; v. 275; p. 566.
Christopher, Arthur B., assignor to Christopher Engineering Company, St. Louis, Mo. Child's rocker. No. 55,453; June 15; v. 275; p. 566.
Christopher Engineering Company. (See Christopher, Arthur B., assignor.)
Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. No. 55,366; June 1; v. 275; p. 160.
Cigol, Frank A., Paterson, N. J. Toy ball. No. 55,413; June 8; v. 275; p. 365.
Cook, Raymond D., Tulsa, Okla. Radiator-cap. No. 55,367; June 1; v. 275; p. 160.
Cooley, Catherine C., Omaha, Nebr. Doll. No. 55,503; June 22; v. 275; p. 774.
Corning Glass Works. (See Churchill, William, assignor.)
Cross, Harry E., Rockton, Ill. Automobile-frame. No. 55,454; June 15; v. 275; p. 567.
Crow, Donald F., Omaha, Nebr. Vehicle-tire. No. 55,414; June 8; v. 275; p. 365.
Curtiss, Glenn H., Buffalo, N. Y. Aeroplane. No. 55,504; June 22; v. 275; p. 774.
Daniels, Lee E. (See Maechler, Walter, assignor.)
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,505; June 22; v. 275; p. 774.
Davis, Meyer, Chicago, Ill. Phonograph-cabinet. No. 55,415; June 8; v. 275; p. 366.
Day, Alfred, Philadelphia, Pa. Checker-board. No. 55,455; June 15; v. 275; p. 565.
Delikat, Thomas, Newark, N. J. Belt and trousers clamp. No. 55,368; June 1; v. 275; p. 160.
Delmore Manufacturing Co. (See Smith, Phineas M., assignor.)
Denmead, John W., Akron, Ohio. Elastic vehicle-tire. No. 55,416; June 8; v. 275; p. 366.
Dixon, Joseph H., Wellington, Ohio. Juvenile vehicle. No. 55,417; June 8; v. 275; p. 366.
Dorward, James L., San Francisco, Calif. Necktie-holder. No. 55,553; June 29; v. 275; p. 978.
Dowling, Della G., New York, N. Y. Tray. No. 55,369; June 1; v. 275; p. 160.
Downes, Elmer N., assignor to J. & D. Tire Company, Charlotte, N. C. Non-skid tire-tread. No. 55,506; June 22; v. 275; p. 774.
Duersten, William E., New Castle, Pa. Non-skid tire. No. 55,507; June 22; v. 275; p. 775.
Duncan, Jefferson E. (See Kaupmann, Frederick, Jr., assignor.)
Ebel, John, assignor to Susquehana Silk Mills, New York, N. Y. Textile fabric. No. 55,370; June 1; v. 275; p. 160.
Eberhard Faber Pencil Co. (See Pfous, Frank, assignor.)
Ecker, Joseph, New York, and E. Goldberg, Coney Island, N. Y. Game-board. No. 55,418; June 8; v. 275; p. 366.
Eden, Harold W., Chicago, Ill. Washing-machine or similar device. No. 55,371; June 1; v. 275; p. 160.
Eldon, Charles H., Williamsport, Pa. Steering-wheel for vehicles. No. 55,456; June 15; v. 275; p. 567.
Electric Welding Machine Company. (See Harvey, S. M., and Lorenz, assignors.)
Eley, Douglas H., and T. H. Ryan, assignors to The Emory Rubber Sole Co. Inc., Norfolk, Va. Rubber-shoe plate. No. 55,419; June 8; v. 275; p. 366.
Emory Rubber Sole Co., The. (See Eley, D. H., and Ryan, asignors.)
Essayan, Harold G., Brookline, Mass. Emblem, badge, stickpin, or similar article. No. 55,554; June 29; v. 275; p. 978.
Essayan, Harold G., Brookline, Mass. Ring. Nos. 55,555–9; June 29; v. 275; p. 978.
Evans, H. C., & Company. (See Harris, Maurice E., assignor.)
Fitz Gerald, Harold G., Los Angeles, Calif. Reflector. No. 55,457; June 15; v. 275; p. 567.
Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. Nos. 55,372–3; June 1; v. 275; p. 161.
Flynn, John H., Jr., Cincinnati, Ohio. Pulley-block. No. 55,508; June 22; v. 275; p. 775.
Franck, Walter A., Louisville, Ky. Cigar-cutter. No. 55,509; June 22; v. 275; p. 775.
Freed, Henry C., Philadelphia, Pa. Collar-stud. No. 55,458; June 15; v. 275; p. 567.
French, Ira L., assignor to The Mantle Lamp Company of America, Chicago, Ill. Bottle-stopper. No. 55,374; June 1; v. 275; p. 161.
Fuller, Eugene, Providence, R. I. Lacing-tip. No. 55,375; June 1; v. 275; p. 161.
Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile-tire. No. 55,459; June 15; v. 275; p. 567.
Gamble, William C., Mount Vernon, N. Y., assignor to General Optical Company. Paper-weight. No. 55,510; June 22; v. 275; p. 775.
Gauss, Harry T., Chicago, Ill. Tire. No. 55,420; June 8; v. 275; p. 366.
Geigand, Anthony W. and J. J., Buffalo, N. Y. Nut-cracker. No. 55,460; June 15; v. 275; p. 568.
Geigand, Joseph J. (See Geigand, Anthony W. and J. J.)
General Optical Company. (See Gamble, William C., assignor.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy wheelbarrow. No. 55,376; June 1; v. 275; p. 161.
Gillespie, Gordon F., Los Angeles, Calif. Doll. No. 55,511; June 22; v. 275; p. 775.
Gleason, Thomas C., Chicago, Ill. Charm, pin, flag, emblem, banner, pennant, pillow-top, or article of similar nature. No. 55,560; June 29; v. 275; p. 978.
Goldberg, Elias. (See Ecker, J., and Goldberg.)
Goldenberg, Benjamin, assignor to E. I. Horsman & Aetna Doll Co., Inc., New York, N. Y. Doll. No. 55,561; June 29; v. 275; p. 979.
Granz, Joseph, Duluth, Minn. Housing for motion-picture machines. No. 55,377; June 1; v. 275; p. 161.
Grooms, Harmon E., Columbus, Ga. Tire-tread. No. 55,378; June 1; v. 275; p. 162.
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Gruenberg, Raoul J., San Francisco, Calif. Automobile-body. No. 55,461; June 15; v. 275; p. 568.
Guiun, John W., Lagrange, Ga. Advertising sign. No. 55,421; June 8; v. 275; p. 367.
Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Auto-curtain window. No. 55,379; June 1; v. 275; p. 162.
Hamilton, Harry G., Youngstown, Ohio. Artificial bait. No. 55,462; June 15; v. 275; p. 568.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Frame member for automatic sprinkler-heads or similar articles. No. 55,463; June 15; v. 275; p. 568.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Bottle-cap. No. 55,380; June 1; v. 275; p. 162.
Handel Company, The. (See Handel, William F., assignor.)
Handel, William F., Meriden, Conn., assignor to The Handel Company. Shade for lighting-fixtures. No. 55,464; June 15; v. 275; p. 568.
Hanmer, Laurence G., Brooklyn, N. Y., assignor to The A-Z Company, New York, N. Y. Automobile-radiator core. No. 55,465; June 15; v. 275; p. 569.
Harris, Maurice E., assignor to H. C. Evans & Company, Chicago, Ill. Playing-card. No. 55,466; June 15; v. 275; p. 569.
Harris, Moses A., Westfield, N. J. Reduction-gear base. No. 55,467; June 15; v. 275; p. 569.
Harvey, Sidney M., and S. E. Lorenz, assignors to Electric Welding Machine Company, Detroit, Mich. Electric-transformer case. No. 55,422; June 8; v. 275; p. 367.
Haskell, Samuel, New York, N. Y. Doll or statuette. No. 55,562; June 29; v. 275; p. 979.
Heilig, Luther A., San Diego, Calif. Pair of eyeglasses. No. 55,468; June 15; v. 275; p. 569.
Heller, Samuel, New York, N. Y. Precious, semiprecious, or synthetic stone, or an imitation thereof. Nos. 55,512–13; June 22; v. 275; p. 776.
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine frame. No. 55,381; June 1; v. 275; p. 162.
Herbert, Henry W. L., New York, N. Y. Mechanical toy figure. No. 55,563; June 29; v. 275; p. 979.

Heyman, Albert C., New York, N. Y., assignor to Peerless Rubber Manufacturing Company. Sheet floor-covering. No. 55,514; June 22; v. 275; p. 776.
High Speed Hammer Company, The. (See Leckinger, Philip H., assignor.)
Horsman, E. I., & Aetna Doll Co. (See Goldenberg, Benjamin, assignor.)
Houston, William A., Sioux City, Iowa. Hook-pin. No. 55,515; June 22; v. 275; p. 776.
Hovekamp, George B., Cincinnati, Ohio. Rosary. No. 55,382; June 1; v. 275; p. 162.
Howard, Chester A., Brooklyn, N. Y. Pin, badge, flag, or similar article. No. 55,564; June 29; v. 275; p. 979.
Huthmaker, James R., and W. R. Leas, Wyoming, Pa. Knife-rest. No. 55,516; June 22; v. 275; p. 776.
J. & D. Tire Company. (See Downes, Elmer N., assignor.)
Johanson, Emil G. (See Johnson, Gustaf, assignor.)
Johnson, Charles E., assignor of one-third to S. Bitterman and one-third to W. A. Johnson, Denver, Colo. Carbureter body or casing. No. 55,469; June 15; v. 275; p. 569.
Johnson, Gustaf, assignor to E. G. Johanson, Chicago, Ill. Headlight-lens. No. 55,470; June 15; v. 275; p. 569.
Johnson, William A., *et al.* (See Johnson, Charles E., assignor.)
Johnstone, Russell R., Wauwatosa, Wis. Advertising-sign. No. 55,471; June 15; v. 275; p. 570.
Jones, Annzzanetta B., Detroit, Mich. Pencil-holder. No. 55,565; June 29; v. 275; p. 979.
Kaczmarczyk, Joseph, Detroit, Mich. Rail-clamp. No. 55,383; June 1; v. 275; p. 162.
Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Oil-can. No. 55,472; June 15; v. 275; p. 570.
Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,517; June 22; v. 275; p. 776.
Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to J. E. Duncan, Arlington Heights, Mass. Hatpin, scarfpin, cuff-link, tie-clip, ring, fob, pendant for neck-chains, pin, or article of manufacture of like character. No. 55,566; June 29; v. 275; p. 979.
King, Rufus, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, R. I. Clasp for a ribbon-bracelet. Nos. 55,423–4; June 8; v. 275; p. 367.
King, William A., Memphis, Tenn. Automobile-radiator. No. 55,473; June 15; v. 275; p. 570.
Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)
Kingsbury, Harry T. and E. J., Keene, N. H. Portable baby-swing. No. 55,384; June 1; v. 275; p. 163.
Kline, Walter, Mogadore, Ohio. Tire-tread. No. 55,425; June 8, v. 275; p. 367.
Klippel, Tony, Frankfort, Ind. Toy locomotive. No. 55,567; June 29; v. 275; p. 979.
Koon, William H., Chicago, Ill. Powder-puff. No. 55,474; June 15; v. 275; p. 570.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,519; June 22; v. 275; p. 777.
Kilmalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,518; June 22; v. 275; p. 777.
Kurtzmann, Louis S., Buffalo, N. Y. Phonograph-case. No. 55,386; June 1; v. 275; p. 163.
Kuzmiak, Peter, Connellsville, Pa. Pair of tongs. No. 55,385; June 1; v. 275; p. 163.
Leas, Warren R. (See Huthmaker, J. R., and Leas.)
Lebau, Louis, Pittsburgh, Pa. Gas-heater. No. 55,388; June 1; v. 275; p. 164.
Leckinger, Philip H., assignor to The High Speed Hammer Company, Inc., Rochester, N. Y. Drill-press frame. No. 55,387; June 1; v. 275; p. 163.
Lovett, Clarence M., New York, N. Y. Fan. No. 55,389; June 1; v. 275; p. 164.
Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
Lipshitz, Benjamin, Brooklyn, N. Y. Bedstead. No. 55,426; June 8; v. 275; p. 367.
Lockwood, Paul M., Kansas City, Mo. Tire-cover. No. 55,475; June 15; v. 275; p. 570.
Lorenz, Samuel E. (See Harvey, S. M., and Lorenz.)
Lorenz, William J., Cleveland, Ohio, assignor to Will & Baumer Company, Syracuse, N. Y. Candelabrum for devotional purposes. Nos. 55,476–8; June 15; v. 275; p. 570.
Luttringhaus, Walter, Maywood, Ill. Berlin kettle. No. 55,480; June 15; v. 275; p. 571.
Luttringhaus, Walter, Maywood, Ill. Preserving-kettle. No. 55,479; June 15; v. 275; p. 571.
McIntyre, Hugh J., and W. J. Wakefield, Winnipeg, Manitoba, Canada. Game-board. No. 55,482; June 15; v. 275; p. 571.
Maas, William E., assignor to Wood Specialties, Inc., Rochester, N. Y. Toy. No. 55,427; June 8; v. 275; p. 368.
Maechler, Walter, assignor to L. E. Daniels, Chicago, Ill. Meat-tendering implement. No. 55,481; June 15; v. 275; p. 571.
Maerz, Frederick K., assignor to The Scott-Ullman Co., Cleveland, Ohio. Wall-bracket. No. 55,390; June 1; v. 275; p. 164.
Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)
Malone, Adeline E., San Francisco, Calif. Doll. No. 55,428; June 8; v. 275; p. 368.
Mantle Lamp Company of America, The. (See French, Ira L., assignor.)
Marcus, Alex, Brooklyn, N. Y. Powder-cloth. No. 55,391; June 1; v. 275; p. 164.
Marcus, Alex, Brooklyn, N. Y. Powder-puff. No. 55,392; June 1; v. 275; p. 164.
Mariner, Joseph A., Chicago, Ill. Collar-holder. No. 55,568; June 29; v. 275; p. 980.
Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Timepiece-dial. Nos. 55,520—1; June 22; v. 275; p. 777.
Meldram, Minnie M., New York, N. Y. Doll. No. 55,569; June 29; v. 275; p. 980.
Melville Shoe Corporation, The. (See Melville, Ward, assignor.)
Melville, Ward, assignor to The Melville Shoe Corporation, New York, N. Y. Shoe-heel. No. 55,393; June 1; v. 275; p. 164.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 55,522; June 22; v. 275; p. 777.
Montgomery, Henry S., Topeka, Kans. Time-piece-dial. No. 55,523; June 22; v. 275; p. 777.
Moolten, Theodore A., New York, N. Y. Spat. No. 55,394; June 1; v. 275; p. 165.
Moore, Jesse C., Indianapolis, Ind. Combination school-desk. No. 55,570; June 29; v. 275; p. 980.
Morbach, John P. (See Zipp, John, and Morbach.)
Mueller, Ralph S., Cleveland Heights, Ohio. Test-clip. No. 55,524; June 22; v. 275; p. 778.
National Bundle Tyer Company. (See Saxton, A. H., and Bachmayer, assignors.)
Noirot, Leo F. and O. G., Peoria, Ill. Toy rocker. No. 55,429; June 8; v. 275; p. 368.
Noirot, Otto G. (See Noirot, Leo F. and O. G.)
Noma Motor Corporation. (See Walton, Wirt W., assignor.)
Nowak, Walter J., Gary, Ind. Statuette. No. 55,525; June 22; v. 275; p. 778.
O'Brien, Joseph E., Springfield, Mass. Pouring device. No. 55,395; June 1; v. 275; p. 165.
Ohm, Albert J. D., Astoria, assignor to Lion Electric Appliance Co., Brooklyn, N. Y. Electric lamp. Nos. 55,430–2; June 8; v. 275; p. 368.
Okamuro, Kenjiro, Honolulu, Hawaii. Hook. No 55,483; June 15; v. 275; p. 572.
Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,526; June 22; v. 275; p. 778.
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. No. 55,527; June 22; v. 275; p. 778.
Paine, Arthur P., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand-lamp. No. 55,571; June 29; v. 275; p. 980.
Pancoast, William G., and W. J. Grotenhuis, Chicago, Ill., assignors to Rilflex Products Company, Waukegan, Ill. Automobile-bumper. No. 55,484; June 15; v. 275; p. 575.
Payne, Olney R., Philadelphia, Pa. Toy garage. No. 55,485; June 15; v. 275; p. 572.
Peerless Rubber Manufacturing Company. (See Heyman, Albert C., assignor.)
Peoples, Walter R., Rochester, N. Y. Toy vehicle. Nos. 55,433–4; June 8; v. 275; p. 369.
Peterson, Hilding F., Marshalltown, Iowa. Swing. No. 55,572; June 29; v. 275; p. 980.
Pfefferle, Margaret E. (See Pfefferle, Peachann and M. E.)
Pfefferle, Peachann and M. E., Columbus, Ohio. Suit of coveralls. No. 55,573; June 29; v. 275; p. 980.
Pfous, Frank, Coshocton, Ohio, assignor to Eberhard Faber Pencil Co., New York, N. Y. Cabinet for rubber bands. No. 55,396; June 1; v. 275; p. 165.
Phillips, Earl, Cleveland, Ohio. Shoe-sole or similar article. No. 55,397; June 1; v. 275; p. 165.
Pickop, George B., New Haven, Conn., assignor to The Malleable Iron Fittings Company, Branford, Conn. Spray device. No. 55,486; June 15; v. 275; p. 572.
Pines Manufacturing Company. (See Raleigh, James F., assignor.)
Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Sole of a rubber boot or shoe. No. 55,528; June 22; v. 275; p. 778.
Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Sole of a rubber overshoe or similar article. No. 55,529; June 22; v. 275; p. 779.
Raleigh, James F., assignor to Pines Manufacturing Company, Chicago, Ill. Automobile-radiator front. No. 55,435; June 8; v. 275; p. 369.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 55,530–1; June 22; v. 275; p. 779.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 55,532; June 22; v. 275; p. 779.
Rennick, George H., Indianapolis, Ind. Emblem-button. No. 55,398; June 1; v. 275; p. 165.
Rieder, Charles, assignor to Frank Rieder & Sons, Philadelphia, Pa. Chair. No. 55,399; June 1; v. 275; p. 165.
Rieder, Frank, & Sons. (See Rieder, Charles, assignor.)
Rozenske, Harry, Detroit, Mich. Pincer. No. 55,487; June 15; v. 275; p. 572.
Ryan, Thomas H. (See Eley, D. H., and Ryan.)

Sampson, Samuel, New York, N. Y. Collar-holder. No. 55,488; June 15; v. 275; p. 572.
Saxton, Albert H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Blissford, Mich. Bundle-tier-machine frame. No. 55,533; June 22; v. 275; p. 779.
Scott-Ullman Co., The. (See Maerz, Frederick K., assignor.)
Sebring, Leonard W., Moline, Ill. Statue, statuette, or ornament. No. 55,574; June 29; v. 275; p. 981.
Seidel, Martin, Weehawken, assignor to West Shore Embroidery Company, West New York, N. J. Lace. Nos. 55,575–6; June 29; v. 275; p. 981.
Seiders, Irwin A., Pennside, Pa. Cylinder-cock casing. No. 55,436; June 8; v. 275; p. 369.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 55,437; June 8; v. 275; p. 370.
Shapiro & Aronson Inc. (See Westphal, Gottfried, assignor.)
Shaw, Rolla C., Inglewood, Calif. Wind-deflector. No. 55,489; June 15; v. 275; p. 573.
Sheerin, Doherty, Indianapolis, Ind. Vending-cabinet. No. 55,534; June 22; v. 275; p. 780.
Sherer, William T., Chicago, Ill. Display-counter. No. 55,490; June 15; v. 275; p. 573.
Shlamowitz, Hayman, Brooklyn, N. Y. Head-ring for electric-light fixtures. No. 55,400; June 1; v. 275; p. 166.
Shropshire, George E., Yonkers, assignor to Anglo-American Pharmaceutical Corporation, New York, N. Y. Decorative paper. No. 55,535; June 22; v. 275; p. 780.
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Sizaire, Maurice H. L., Park Royal, London, England. Radiator for automobile-vehicles. No. 55,491; June 15; v. 275; p. 573.
Sleight, William W., Chicago, Ill. Bolt for window-frames. No. 55,438; June 8; v. 275; p. 370.
Sleight, William W., Chicago, Ill. Holdfast for window-frames. No. 55,439; June 8; v. 275; p. 370.
Smith, James H., and C. D. Blackmon, Rochester, N. Y. Candy or chewing-gum tablet. No. 55,536; June 22; v. 275; p. 780.
Smith, Phineas M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Motor-vehicle. Nos. 55,440–2; June 8; v. 275; p. 370.
Smith, William J., Denver, Colo. Superservice-flag. No. 55,537; June 22; v. 275; p. 780.
Snyder, Eugene L., Canton, Ohio. Drawing instrument. No. 55,538; June 22; v. 275; p. 780.
Sowalski, Jan, Chicago, Ill. Window. No. 55,539; June 22; v. 275; p. 780.
Standard Four Tire Company. (See Gabeline, Jacob B., assignor.)
Standard Parts Company, The. (See Braden, James A., assignor.)
Strom, Emil, Chicago, Ill. Smoking-pipe. No. 55,443; June 8; v. 275; p. 371.
Susquehana Silk Mills. (See Ebel, John, assignor.)
Susquehanna Silk Mills. (See Katz, Clara, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)
Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)
Susquehanna Silk Mills. (See Reith, William G., assignor.)
Tarbell, Grove S., Colville, Wash. Kitchen-spoon. No. 55,540; June 22; v. 275; p. 781.
Taylor, George M., Hartford, Conn. Tool-tray. No. 55,492; June 15; v. 275; p. 573.
Teats, Charles R., Columbus, Ohio. Game. No. 55,401; June 1; v. 275; p. 166.
Tilt, Albert, New York, N. Y. Lapel-ribbon. No. 55,577; June 29; v. 275; p. 981.
Turton, William, East Orange, N. J. Bag-frame member or similar article. No. 55,402; June 1; v. 275; p. 166.
Underwood Typewriter Company. (See Helmond, William F., assignor.)
United States Glass Company. (See Haley, Reuben, assignor.)
Unte, Vincent, Detroit, Mich. Toy wheelbarrow. No. 55,578; June 29; v. 275; p. 982.
Vester, Alfred, & Sons. (See Vester, Gustave J., assignor.)
Vester, Gustave J., assignor to Alfred Vester & Sons, Incorporated, Providence, R. I. Sconce for a lighting-fixture or similar article. No. 55,403; June 1; v. 275; p. 166.
Wakefield, Walter J. (See McIntyre, H. J., and Wakefield.)
Waltham Watch Company. (See Marsh, Edward A., assignor.)
Walton, Wirt W., assignor to Noma Motor Corporation, New York, N. Y. Automobile-windshield. No. 55,444; June 8; v. 275; p. 371.
Weinberger, Harry, Brooklyn, N. Y. Doll, statuette, sculpture, or article of similar nature. No. 55,579; June 29; v. 275; p. 982.
Welch, Jesse C., Tacoma, Wash. Toy vehicle. No. 55,445; June 8; v. 275; p. 371.
Welch, Jesse C., Tacoma, Wash. Toy vehicle. No. 55,580; June 29; v. 275; p. 982.
West Shore Embroidery Company. (See Seidel, Martin, assignor.)
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson Inc., New York, N. Y. Wall-plate for lighting-fixtures. No. 55,493; June 15; v. 275; p. 573.
White, Joseph M., Danville, Ill. Automobile-footboard. No. 55,494; June 15; v. 275; p. 574.
White, William L., Old Orchard, Me. Caster for cruets. Nos. 55,495–6; June 15; v. 275; p. 574.
Wigginton, George P., Kalamazoo, Mich. Desk. No. 55,497; June 15; v. 275; p. 574.
Will & Baumer Company. (See Lorenz, William J., assignor.)
Wilson, Walter A., Armley, Leeds, England. Radiant for gas-heaters. No. 55,541; June 22; v. 275; p. 781.
Winchester Repeating Arms Company. (See Paine, Arthur P., assignor.)
Wipf, Herman, Narberth, assignor to John Wyeth & Bro., Inc., Philadelphia, Pa. Antiseptic tablet. No. 55,542; June 22; v. 275; p. 781.
Wood specialties. (See Maas, William F., assignor.)
Woodbury, Charles P., Kansas City, Mo. Sword hilt and scabbard. No. 55,498; June 15; v. 275; p. 574.
World Tire Corporation. (See Breitenstein, Arthur L., assignor.)
Wraith, George A., Zanesville, Ohio. Game-board. No. 55,581; June 29; v. 275; p. 982.
Wyeth, John, & Bro. (See Wipf, Herman, assignor.)
Wygold, Daniel M., Denver, Colo. Humidor. No. 55,446; June 8; v. 275; p. 371.
Zipp, John, and J. P. Morbach, Cleveland, Ohio. Scoreboard. No. 55,499; June 15; v. 275; p. 574.
Ziv, Abraham J., Chicago, Ill. Statuette. No. 55,543; June 22; v. 275; p. 781.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. B. C. Co., Highland Park, Ill. Pharmaceutical preparation for chap, sunburn, and skin irritation. No. 132,742; June 29; v. 275; p. 1017.
Abradant Products Company, Philadelphia, Pa. Grinding and polishing wheels and blocks. No. 131,948; June 8; v. 275; p. 413.
Acme Mills, The, Hopkinsville, Ky. Self-rising wheat-flour. No. 131,949; June 8; v. 275; p. 413.
Acme Packing Company, The, Chicago, Ill. Canned pork and beans, apple-butter, jams, jellies, and preserves. No. 132,602; June 29; v. 275; p. 1013.
Acme Phonograph Company of Kansas City, The, Kansas City, Mo. Phonographs and records. No. 132,603; June 29; v. 275; p. 1013.
Adams & Westlake Company, Chicago, Ill. Lighting and ventilating devices. No. 131,950; June 8; v. 275; p. 413.
Albrecht, Elizabeth J., Prosser, Wash. Salve for treatment of certain named diseases and affections. No. 132,279; June 22; v. 275; p. 815.
Albright, Chester W., Indianapolis, Ind. Saponaceous preparation for the complexion in powdered form. No. 131,951; June 8; v. 275; p. 413.
All-Qual-Sweets Co. Inc., Chicago, Ill. Confectionery—namely, chocolates. No. 131,952; June 8; v. 275; p. 413.
Allen, George M., New York, N. Y. Syrup made from corn or corn and cane, used for food purposes. No. 132,604; June 29; v. 275; p. 1013.
Allied Machinery Company of America, New York, N. Y. Metal hand-buckets. No. 132,078; June 15; v. 275; p. 615.
Allied Machinery Company of America, New York, N. Y. Measuring and scientific appliances. No. 132,280; June 22; v. 275; p. 815.
Alpern and Blachschlager Chemical Company, Cincinnati, Ohio. Medicine for cramp, diarrhea, and kindred diseases. No. 132,281; June 22; v. 275; p. 815.
Alsen Cement Co. of America, Inc., New York, N. Y. Portland cement. No. 132,605; June 29; v. 275; p. 1013.
Althoff, L. A., Mfg. Co., The, Chicago, Ill. Gas stoves, ovens, and plates. No. 131,953; June 8; v. 275; p. 413.
Amalgamated Trading Company, San Francisco, Calif. Canned fruits. No. 132,282; June 22; v. 275; p. 815.
American Brewing Co., The, Pekin, Ill. Non-alcoholic non-cereal beverage. No. 132,079; June 15; v. 275; p. 615.
American Confectionery Syndicate, Inc., New York, N. Y. Sugar tablets and lozenges flavored with essential oils and fruit-juices. No. 132,283; June 22; v. 275; p. 815.
American La France Fire Engine Co., Inc., Elmira, N. Y. Fire-engines, water-towers, &c. No. 132,284; June 22; v. 275; p. 815.
American Magnesia Products Co., Chicago, Ill. Composition for use as stucco. No. 132,080; June 15; v. 275; p. 615.

American Musical Supply Co., Jersey City, N. J. Tuning-pins. No. 132,606; June 29; v. 275; p. 1013.
American Novelty Wash Suit Co., Inc., New York, N. Y. Boys', youths', and children's outer suits, coats, and pants. No. 132,285; June 22; v. 275; p. 815.
American Papeterie Company, Albany, N. Y. Mailing and correspondence envelops, writing papers and tablets. No. 132,607; June 29; v. 275; p. 1013.
American Renoleo Company, York, Pa. Food-flavoring extracts. No. 132,608; June 29; v. 275; p. 1013.
American Textile Banding Company, Philadelphia, Pa. Cotton webbing. No. 131,930; June 1; v. 275; p. 199.
American Writing Paper Co., Holyoke, Mass. Writing and printing paper. No. 132,081; June 15; v. 275; p. 615.
American Writing Paper Co., Holyoke, Mass. Printing and writing paper. Nos. 132,609–10; June 29; v. 275; p. 1013.
Ammen, Chas., Co. Ltd., Alexandria, La. Baby-powder. No. 132,286; June 22; v. 275; p. 815.
Amplex Incorporated, New York, N. Y. Machinery and parts thereof. No. 132,082; June 15; v. 275; p. 615.
Andell, Hannah B., Williams Bay, Wis. Hand-lotion. No. 132,611; June 29; v. 275; p. 1013.
Angel, H. Reeve, & Co. Inc., New York, N. Y. Gray filter-paper. No. 132,787; June 29; v. 275; p. 1018.
Angier Mechanical Laboratories, Framingham, Mass. Duplex crinkled or craped paper for wrapping tires and other articles. No. 132,612; June 29; v. 275; p. 1013.
Ansbacher, A. B., & Company, Inc., New York, N. Y. Insecticides and fungicides. No. 132,613; June 29; v. 275; p. 1013.
Apsley Rubber Company, Hudson, Mass. Canvas outing-shoes. No. 132,287; June 22; v. 275; p. 815.
Archbald, Charles E., New Brunswick, N. J. Typewriter-ribbons, carbon-paper, and stencil-ink. No. 132,614; June 29; v. 275; p. 1013.
Arc-O-Manufacturing Co. Inc. (See Marmon Chicago Company, The, assignor.)
Argo, Fred N., Los Angeles, Calif. Compound table-syrup and sugar, food-flavoring compound. No. 131,954; June 8; v. 275; p. 413.
Armand Company, The, Des Moines, Iowa. Toilet soaps. No. 132,085; June 15; v. 275; p. 615.
Armour Grain Company. (See Condensed Food Company, assignor.)
Armstrong, A. J., Co. Inc., New York, N. Y. Hosiery, sweaters, knitted novelties, &c. No. 132,086; June 15; v. 275; p. 615.
Arnor, Harry W., Lewiston, Idaho. Washing compound. No. 132,288; June 22; v. 275; p. 815.
Aron, J., & Company, Inc., New Orleans, La. Coffee. Nos. 132,083–4; June 15; v. 295; p. 615.
Aron, J., & Company, Inc., New Orleans, La. Coffee. No. 132,289; June 22; v. 275; p. 815.
Arrow Products Co., Peoria, Ill. Non-alcoholic maltless beverage. No. 132,290; June 22; v. 275; p. 815.
Art Metal Manufacturing Company, The, Cleveland, Ohio. Electric-lighting fixtures. No. 132,615; June 29; v. 275; p. 1013.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Turpentine. No. 132,403; June 22; v. 275; p. 819.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Carbolic acid. No. 132,665; June 29; v. 275; p. 1015.
Ashland Leather Company, Ashland, Ky., and Chicago, Ill. Sole-leather. No. 131,955; June 8; v. 275; p. 413.
Atchison Mills Corporation, The, Atchison, Kans. Wheat-flour. No. 132,616; June 29; v. 275; p. 1013.
Atlantic Refining Company, The, Philadelphia, Pa. White petroleums. No. 132,291; June 22; v. 275; p. 815.
Atriken Chemical Works, New Brunswick, N. J. Ointments, petroleum jelly, &c. No. 132,292; June 22; v. 275; p. 815.
Atterbury Bros. Inc., New York, N. Y. Old newspapers. No. 132,956; June 8; v. 275; p. 413.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. No. 131,957; June 8; v. 275; p. 413.
Austen Cologne Company, The, New York, N. Y. Mouth-wash. No. 132,617; June 29; v. 275; p. 1013.
Austinol Chemical Co. Inc., New York, N. Y. Chemical preparation for dandruff. No. 132,618; June 29; v. 275; p. 1013.
Bachman, Otto, St. Louis, Mo. Phonographs. No. 132,619; June 29; v. 275; p. 1013.
Backé, Tod, Brooklyn, N. Y. Candies. No. 132,620; June 29; v. 275; p. 1013.
Baer, Ludwig, New York, N. Y. Razors. No. 132,087; June 15; v. 275; p. 615.
Bailey, B. F., & Co., New York, N. Y. Bedspreads. No. 132,088; June 15; v. 275; p. 615.
Baker Lumber Co., Worcester, Mass. Lumber. No. 132,621; June 29; v. 275; p. 1013.
Ball, C. S., Candy Company, The, assignor to Elinor's, Dayton, Ohio. Candy. No. 132,622; June 29; v. 275; p. 1013.
Barbey, John, Reading, Pa. Cereal malt beverage. No. 132,089; June 15; v. 275; p. 615.
Barr, J. E., Pickling and Preserving Company, St. Cloud, Minn. Canned vegetables. No. 132,623; June 29; v. 275; p. 1013.
Barrows, G. L., assignor to Sagamore Chemical Co., Inc., New York, N. Y. Photographic chemical and anilin dyes. No. 132,624; June 29; v. 275; p. 1013.
Bartlett, J. E., & Sons, Tampa, Fla. Fresh fruit. No. 132,625; June 29; v. 275; p. 1013.
Barton Belt Company, assignor to Barton Manufacturing Co., Waco, Tex. Polish for leather goods. No. 131,931; June 1; v. 275; p. 199.
Basic Products Corporation, (now by change of name, The Theroz Company,) New York, N. Y. Fuel-burners for solidified alcohol. No. 131,958; June 8; v. 275; p. 413.
Batuglos, Stamatis, Verona, Pa. Fruitless anise-flavored carbonated beverages. No. 132,090; June 15; v. 275; p. 615.
Bay City Milling Company, Bay City, Mich. Wheat-flour and cornmeal. No. 131,959; June 8; v. 275; p. 413.
Bay Side Canning Co., Alviso, Calif. Canned fruits and vegetables. No. 132,293; June 22; v. 275; p. 815.
Bay State Optical Company, Saco, Me., and Attleboro, Mass. Frames of spectacles and eyeglasses. No. 132,294; June 22; v. 275; p. 815.
Beauchamp, Joseph O., Springfield, Mass. Antiseptic for use in the nose. No. 132,295; June 22; v. 275; p. 815.
Beaver Company, The, Buffalo, N. Y. Prepared sheet-roofing, roofing tiles and cements, and shingles. Nos. 132,626–7; June 29; v. 275; p. 1013.
Beaver Varnish Company, The, Buffalo, N. Y. Paste and ready-mixed paints and varnishes. No. 132,296; June 22; v. 275; p. 815.
Bedrosian, Milan, Elmira, N. Y. Cleaning preparation for rugs, silk, &c. No. 131,960; June 8; v. 275; p. 413.
Belcanto Co., Inc., The, New York, N. Y. Phonographs, records, sound-boxes, and needles. Nos. 132,091–2; June 15; v. 275; p. 615.
Bell, J. S., Confectionery Company, Cambridge, Mass. Candy. No. 132,094; June 15; v. 275; p. 615.
Bell, John, Hills & Lucas, Limited, London, England. Preparation for cleaning face and hands, feathers and furs, and removing grease-spots. No. 132,093; June 15; v. 275; p. 615.
Bell, Robt. J., assignor to Bell's Auto Memo Co., Richmond, Va. Memorandum-tablets. No. 132,297; June 22; v. 275; p. 815.
Bencoe Importing and Exporting Co. Inc., New York, N. Y. Sheeting. No. 132,298; June 22; v. 275; p. 815.
Benedix, Victor, Columbus, Ohio. Medicated inhalant, a nerve and blood tonic, and stomach and asthma medicines. No. 132,299; June 22; v. 275; p. 815.
Bennett and Aspden Company, Philadelphia, Pa. Pile fabrics. No. 132,095; June 15; v. 275; p. 615.
Benson Brothers, Philadelphia, Pa. Worsted cloth in the piece. No. 132,096; June 15; v. 275; p. 615.
Bernard, Henry B., Jefferson, S. D. Worm-expeller, horse-tonic, hog-tonic, &c. No. 132,300; June 22; v. 275; p. 815.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat-flour. No. 131,961; June 8; v. 275; p. 413.
Bernstein, Baum, Da Costa Company, Philadelphia, Pa. Suits and coats for women. No. 132,301; June 22; v. 275; p. 815.
Bethania Mineral Spring Company, Osceola, Wis. Non-alcoholic beverage and syrup for flavoring same. No. 132,097; June 15; v. 275; p. 615.
Bierhaus, John S., Vincennes, Ind. Table-syrup. No. 132,628; June 29; v. 275; p. 1013.
Bitu-Mo-Lin Products Co., Seattle, Wash. Marine glue or lute. No. 132,098; June 15; v. 275; p. 615.
Blackwood, John L. H., London, England. Buttons, Device for use in protecting material to which they are attached while cleaning. No. 131,962; June 8; v. 275; p. 413.
Blair, J. C., Company, Huntingdon, Pa. Paper, envelops, blank books, tablets. No. 132,629; June 29; v. 275; p. 1013.
Blumenthal, Sidney & Co., Inc., New York, N. Y. Pile fabrics in the piece. No. 132,244; June 15; v. 275; p. 620.
Bolander, John A., San Francisco, Calif. Stringed musical instruments resembling a banjo and ukulele. No. 132,630; June 29; v. 275; p. 1013.
Bond, Edward W., Portland, Oreg. Window-cleaning composition in brick form. No. 132,099; June 15; v. 275; p. 615.
Borgfeldt, George, & Co., New York, N. Y. Pyroxylin compound of a celluloid type. No. 131,963; June 8; v. 275; p. 413.
Borgfeldt, George, & Co., New York, N. Y. Toilet powders. No. 132,302; June 22; v. 275; p. 815.
Bosak Manufacturing Co., Scranton, Pa. Reconstructive tonic. Nos. 132,303–5; June 22; v. 175; pp. 815–16.
Braunberg, Max, Brooklyn, N. Y. Hair-restorer. No. 132,306; June 22; v. 275; p. 816.
Bridgman, Roy W., San Jose, Calif. Perspiration-counteractor. No. 132,307; June 22; v. 275; p. 816.
Brinton, Willard C., New York, N. Y. Electric trucks and accessories. No. 131,964; June 8; v. 275; p. 413.
Bristol-Myers Company, New York, N. Y. Digestants and medicinal preparations for treatment of dyspepsia or similar diseases. No. 132,308; June 22; v. 275; p. 816.
Brown's Tooth Powder Company, San Francisco, Calif. Medicinal preparation to be used as a dentifrice. No. 132,309; June 22; v. 275; p. 816.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Phonograph-records. No. 132,631; June 29; v. 275; p. 1014.

Buffalo Brewing Company, Sacramento, Calif. Non-alcoholic malt beverage. No. 132,632; June 29; v. 275; p. 1014.

Buffalo House Wrecking & Salvage Co., Buffalo, N. Y. Ready-mixed paints and varnishes. No. 132,100; June 15; v. 275; p. 615.

Burnham, Edward, Chicago, Ill. Manicuring-oil, nail-polish, and finger-nail polish. No. 132,310; June 22; v. 275; p. 816.

Burnham, Edward, Chicago, Ill. Perfume, toilet-water, rouge, and face-powder. No. 132,311; June 22; v. 275; p. 816.

Burnham-Munger-Root Dry Goods Co., Kansas City, Mo. All-wool blankets, all-cotton blankets, covered bed-comforts, &c. No. 132,101; June 15; v. 275; p. 615.

Burt Olney Canning Company, The, Oneida, N. Y. Condensed and evaporated milk. No. 132,766; June 29; v. 275; p. 1018.

Burwell & Dunn Co., Charlotte, N. C. Antiseptic demulcent corrective for intestinal disorders. No. 132,312; June 22; v. 275; p. 816.

Burwell & Dunn Co., Charlotte, N. C. Malarial remedy and tonic. No. 132,313; June 22; v. 275; p. 816.

Buster Manufacturing Company, Pittsburgh, Pa. Toy velocipedes. No. 132,633; June 29; v. 275; p. 1014.

Butler, Charles A., Toledo, Ohio. Chemical carbon-preventive or gas-intensifier for hydrocarbon liquid fuels. Nos. 132,314–15; June 22; v. 275; p. 816.

C. A. Willey Company, Long Island City, N. Y. Lacquer for furniture and household goods. No. 132,593; June 22; v. 275; p. 825.

C. & K. Mfg. Co., The, New Haven, Conn. Powder-puffs. No. 132,316; June 22; v. 275; p. 816.

Cacciatore, Leonardo, New York, N. Y. Medicine for diseases of the eye. No. 132,317; June 22; v. 275; p. 816.

California Alkali Co., San Francisco, Calif. Neutral soda for cleaning and washing. No. 132,634; June 29; v. 275; p. 1014.

California Alkali Co., San Francisco, Calif. Soda-ash or anhydrous sodium carbonate. No. 132,635; June 29; v. 275; p. 1014.

California Lima Bean Growers Association. Dry Lima Beans. No. 132,636; June 29; v. 275; p. 1014.

California Packing Corporation, San Francisco, Calif. Canned vegetables and dried fruits. No. 132,318; June 22; v. 275; p. 816.

Calima Canning Co., Los Angeles, Calif. Canned fruits. No. 132,102; June 15; v. 275; p. 615.

Campbell, A. S., Company, Boston, Mass. Curtain-windows for vehicle and similar curtains. No. 131,965; June 8; v. 275; p. 413.

Cannaday, Julius E., Sedalia, Mo. Floral ribbon in the piece. No. 132,103; June 15; v. 275; p. 615.

Canon, Mary D., Montclair and Bloomfield, N. J. Women's caps. No. 132,104; June 15; v. 275; p. 616.

Canton Feed & Milling Company, The, Canton, Ohio. Wheat-flour and stock feed. No. 131,932; June 1; v. 275; p. 199.

Capen, George H., Canton Junction, Mass. Leather blacklings and dressing. No. 132,319; June 22; v. 275; p. 816.

Carbona Products Company, New York, N. Y. Chemical fire-extinguishing compound. No. 132,320; June 22; v. 275; p. 816.

Carr Fastener Company, Cambridge, Mass. Snap-fasteners. Nos. 131,966–7; June 8; v. 275; p. 413.

Carson, Pirie, Scott & Co., assignor to Carson Pirie Scott & Company, Chicago, Ill. Overalls. No. 132,321; June 22; v. 275; p. 816.

Carter, Macy & Co. Inc., New York, N. Y. Teas. No. 131,968; June 8; v. 275; p. 413.

Cascade Industries Company, Cascade, Md. Candy. No. 132,637; June 29; v. 275; p. 1014.

Casein Manufacturing Company, New York, N. Y. Caseïn glues or adhesives. No. 132,322; June 22; v. 275; p. 816.

Caverly-Plumer Company, Lynn, Mass. Compound cream of tartar. No. 132,323; June 22; v. 275; p. 816.

Celite Products Company, Los Angeles, Calif. Heat-insulating filling and a structural material. No. 132,324; June 22; v. 275; p. 816.

Celite Products Company, Los Angeles, Calif. Material for heat-insulating semirefractory filling and a structural material. Nos. 132,325–6; June 22; v. 275; p. 816.

Celro-Kola Co., Portland, Oreg. Non-intoxicating non-alcoholic maltless fruit-syrup. No. 132,105; June 15; v. 275; p. 616.

Central Ohio Paper Co., The, Columbus, Ohio. Mailing-envelops. No. 132,106; June 15; v. 275; p. 616.

Central Ohio Paper Company, The, Columbus, Ohio. Printing and writing paper, pamphlets, books, tissue-paper, paper towels, &c. No. 132,107; June 15; v. 275; p. 616.

Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper, box and book cover paper, tissue-paper, &c. No. 132,108; June 15; v. 275; p. 616.

Central Ohio Paper Company, The, Columbus, Ohio. Printing-paper folders, toilet-paper, &c. No. 132,638; June 29; v. 275; p. 1014.

Chain Belt Company, Milwaukee, Wis. Iron and steel castings and forgings. No. 132,109; June 15; v. 275; p. 616.

Chamberlain-Haber Chemical Co., The, Cleveland, Ohio. Composition for opening clogged pipes, traps, and drains. No. 132,639; June 29; v. 275; p. 1014.

Champion Kerosene-Burner Co., Kenton, Ohio. Kerosene-burners, &c. No. 131,969; June 8; v. 275; p. 413.

Chandler & Co., Boston, Mass. Clothing for women. No. 132,327; June 22; v. 275; p. 816.

Chapin & Company, Hammond, Ind., and Chicago, Ill. Dairy and stock feed. No. 132,640; June 29; v. 275; p. 1014.

Charland, Eugene, Montreal, Canada. Solder. No. 132,110; June 15; v. 275; p. 616.

Charms Company, Newark, N. J. Toasted peanuts. No. 132,641; June 29; v. 275; p. 1014.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in whole or part of silk. Nos. 131,933–4; June 1; v. 275; p. 199.

Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. Nos. 132,111–12; June 15; v. 275; p. 616.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 132,113; June 15; v. 275; p. 616.

Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 132,329; June 22; v. 275; p. 816.

China, Japan & South American Trading Co., Ltd., San Francisco, Calif. Canned fruits and vegetables. No. 132,330; June 22; v. 275; p. 816.

China, Japan, and South America Trading Co., San Francisco, Calif. Canned fruits, vegetables, and fish. No. 132,642; June 29; v. 275; p. 1014.

Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 132,114; June 15; v. 275; p. 616.

Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. Nos. 132,331–5; v. 275; p. 816.

Chipman Limited, New York, N. Y. Pianos, player-pianos, organs, phonographs, and phonograph-needles. No. 132,643; June 29; v. 275; p. 1014.

Chrobaltle Tool Company, Chicago, Ill. Reamers, metal-cutting drills, punches, &c. No. 132,336; June 22; v. 275; p. 817.

Chuck, Davis & Co., New York, N. Y. Cotton piece goods. No. 132,337; June 22; v. 275; p. 817.

Cincinnati Beverage and Products Co., The, Cincinnati, Ohio. Non-alcoholic maltless beverage. No. 132,115; June 15; v. 275; p. 616.

Cincinnati Soap Co., The, Cincinnati, Ohio. Soap. No. 132,644; June 29; v. 275; p. 1014.

City Cap Co., St. Louis, Mo. Headwear for men and boys. No. 132,116; June 15; v. 275; p. 616.

Clack, H. Earl, Company, Havre, Mont. Kerosene. No. 132,647; June 29; v. 275; p. 1014.

Clarendon Refining Company, Clarendon borough, Pa. Lubricating and illuminating oils, gasolene, naphtha, benzin, and paraffin-wax. No. 132,117; June 15; v. 275; p. 616.

Clark, H. W., Biscuit Company, North Adams, Mass. Bakery products—namely, crackers and cakes. No. 131,935; June 1; v. 275; p. 199.

Clark Products Co., The, Indianapolis, Ind. Polishing compositions. No. 132,646; June 29; v. 275; p. 1014.

Clark's, Dr., Chemical Laboratories, Chicago, Ill. Preparation of salvelike consistency for the alleviation of certain named ailments. No. 132,645; June 29; v. 275; p. 1014.

Cohn, J. & M., Inc., New York, N. Y. Ladies' waists and collars. No. 132,338; June 22; v. 275; p. 817.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Coated relief overlay-paper. No. 132,648; June 29; v. 275; p. 1014.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Printing-ink. No. 132,649; June 29; v. 275; p. 1014.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Etching-powder. No. 132,650; June 29; v. 275; p. 1014.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Coated cardboard, bristol-board, and coated paper. No. 132,651; June 29; v. 275; p. 1014.

Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 132,118; June 15; v. 275; p. 616.

Condensed Food Company, Philadelphia, Pa., assignor to Armour Grain Company, Chicago, Ill. Partially cooked and prepared potatoes. No. 132,652; June 29; v. 275; p. 1014.

Conlon, Richard T., New York, N. Y. Compounds or powders for cleaning and finishing stone, &c., surfaces. No. 132,119; June 15; v. 275; p. 616.

Connor, David, Vancouver, British Columbia, Canada. Canned salmon. No. 132,653; June 29; v. 275; p. 1014.

Corning Glass Works, Corning, N. Y. Glass. No. 131,970; June 8; v. 275; p. 413.

Corning Glass Works, Corning, N. Y. Cut-glass and artistic glassware. Nos. 132,339–40; June 22; v. 275; p. 817.

Cousins, J. & T., Co., Brooklyn, N. Y. Boots and shoes. No. 132,121; June 15; v. 275; p. 616.

Cousins, J. & T., Co., Brooklyn, N. Y. Boots and shoes of leather and fabric. No. 132,341; June 22; v. 275; p. 817.

Cowley, James J., Passaic, N. J. Fuel-oils. No. 132,120; June 15; v. 275; p. 616.

Crabbs Reynolds Taylor Co., Incorporated, Crawfordsville, Ind. Garden-seed. No. 132,122; June 15; v. 275; p. 616.

Crane, Clarence A., Cleveland, Ohio. Candy. Nos. 132,654–5; June 29; v. 275; p. 1014.

Crary Brokerage Company, Waukesha, Wis. Canned vegetables—namely, peas and corn. No. 132,656; June 29; v. 275; p. 1014.

Cree, Dugal, Chicago, Ill. Smoked, canned, and pickled meats. No. 132,657; June 29; v. 275; p. 1014.

Crenshaw Bros. Produce Co., Inc., Tampa, Fla. Butter. No. 131,971; June 8; v. 275; p. 413.

Crippen Company, Inc., The, New York, N. Y. Player-pianos and music-sheets therefor, talking-machines, and phonographs. No. 132,342; June 22; v. 275; p. 817.

Croker Packing Co., San Francisco, Calif. Canned fruits, jams, and vegetables. No. 132,343; June 22; v. 275; p. 817.

Croker Packing Co., San Francisco, Calif. Canned vegetables and fruits, jams. No. 132,658; June 29; v. 275; v. 1014.

Croker Packing Co., San Francisco, Calif. Canned fruits, vegetables, and jams. No. 132,659; June 29; v. 275; p. 1014.

Crome, Julia H., Clinton, Mo. Non-alcoholic non-cereal maltless beverage and syrup. No. 132,344; June 22; v. 275; p. 817.

Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, racks, billets, blooms, plates, &c. No. 132,345; June 22; v. 275; p. 817.

Cullen-Stevens Co., Duluth, Minn. Polish for varnished and enameled surfaces. No. 132,346; June 22; v. 275; p. 817.

Cushing, J., Co., Fitchburg, Mass. Poultry and stock feed. No. 131,972; June 8; v. 275; p. 413.

Cushing, J., Co., Fitchburg, Mass. Poultry and stock feeds. No. 132,660; June 29; v. 275; p. 1014.

Daisy Products Company, Harrisburg, Pa. Candy. No. 131,936; June 1; v. 275; p. 199.

Daltex Milk Products Company, Dallas, Tex. Milk, buttermilk, and cream. No. 132,123; June 15; v. 275; p. 616.

Davis, Charles, Paris, France. Perfumery. No. 132,661; June 29; v. 275; p. 1014.

Davis & Lawrence Company, New York, N. Y. Menthol salve. No. 132,347; June 22; v. 275; p. 817.

Davis, N. C., Winchester, Mass. Cleaner and polisher for phonograph-records. No. 132,348; June 22; v. 275; p. 817.

Day-Elder Motors Corporation, Newark, N. J. Trailers, semitrailers, and automotive vehicles. Nos. 132,662–3; June 29; v. 275; p. 1015.

Day, William A., Bellingham, Wash. Solder. No. 132,349; June 22; v. 275; p. 817.

Dearborn Chemical Company, Chicago, Ill. Lubricating oils and greases. No. 132,350; June 22; v. 275; p. 817.

De Goenaga, Augusto H., Detroit, Mich. Tooth-paste. No. 132,351; June 22; v. 275; p. 817.

Delaware Electric & Supply Co., Wilmington, Del. Coal-stoves. No. 131,973; June 8; v. 275; p. 413.

Delaware Electric & Supply Co., Wilmington, Del. Bath-tubs, lavatories, water-closets, &c. No. 132,124; June 15; v. 275; p. 616.

Delfino, Dr. Enrico Parodi, Milan, Italy. Preserved cherries. No. 132,352; June 22; v. 275; p. 817.

Dell, Vella, New York, N. Y. Hair-tonic and hair-growing preparation. No. 132,353; June 22; v. 275; p. 817.

De Long Hook and Eye Company, Philadelphia, Pa. Hair-pins, snap-fasteners, &c. No. 131,974; June 8; v. 275; p. 413.

De Luca, John A., St. Helena, Md. Baking-powder. No. 132,354; June 22; v. 275; p. 817.

Denney & Co., Chicago, Ill. Fresh apples. No. 132,355; June 22; v. 275; p. 817.

Dennis, Joseph K., Boston, Mass. Salt fish. Nos. 131,975–6; June 8; v. 275; pp. 413–4.

Depree Chemical Company, The, Holland, Mich. Complexion and talcum powders, toilet-water, complexion and almond cream. No. 132,356; June 22; v. 275; p. 817.

Desch, Barbara M., Columbia, Pa. Remedy for lung trouble. No. 132,664; June 29; v. 275; p. 1015.

Dessauer, Earl H., Omaha, Nebr. Soda-water and non-alcoholic maltless cereal syrups. No. 132,125; June 15; v. 275; p. 616.

Deter-Sol Sales Company, Denver, Colo. Preparation to preserve and renew platens. No. 132,357; June 22; v. 275; p. 817.

Deutsche Conservierungsgesellschaft mit beschrankter Haftung, Marienfelde, near Berlin, Germany. Pitch for use in breweries. No. 132,126; June 15; v. 275; p. 616.

Dewey, H. S. & Sons Co., New York, N. Y. Non-intoxicating non cereal maltless beverage. No. 132,127; June 15; v. 275; p. 616.

Dewey, H. T. & Sons Co., New York, N. Y. Non-intoxicating non-cereal maltless beverage. No. 132,358; June 22; v. 275; p. 817.

Dickelman, C. O., Co., Milwaukee, Wis. Poultry feed. No 131,937; June 1; v. 275; p. 199.

Dickson, William T., Glasgow, Scotland. Silk piece goods. No. 132,128; June 15; v. 275; p. 616.

Dismuke, Ed. E., Mineral Wells, Tex. Concentrated natural mineral-well water. No. 132,129; June 15; v. 275; p. 616.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Belt-dressing. No. 132,130; June 15; v. 275; p. 616.

Dodson, Carroll E., Kansas City, Mo. Portable phonographs. No. 132,666; June 29; v. 275; p. 1015.

Dodson, Fisher, Brockmann Co., Minneapolis, Minn. Shoelaces. No. 131,977; June 8; v. 275; p. 414.

Domestic Electric Company, Cleveland, Ohio. Electric motors, motor frames and parts. No. 132,131; June 15; v. 275; p. 616.

Drackett, P. W., and Sons Company, The, Cincinnati, Ohio. Washing compound. No. 132,359; June 22; v. 275; p. 817.

Driver-Harris Company, Harrison, N. J. Metal castings. No. 132,667; June 29; v. 275; p. 1015.

Duffee, J. W., Mfg. Co., The, Washington Court House, Ohio. Tonic laxative, for constipation, sluggish liver, headache, &c. No. 132,360; June 22; v. 275; p. 817.

Duluth Floral Company, Duluth, Minn. Seeds, shrubbery, cut flowers, bulbs, plants, and other nursery stock. No. 132,132; June 15; v. 275; p. 616.

Dunham, James H., & Co., New York, N. Y. Hosiery. No. 132,361; June 22; v. 275; p. 817.

Du Pont, E. I. de Nemours & Company, Wilmington, Del. Lacquers. No. 132,367; June 22; v. 275; p. 817.

Duratex Company, The, Newark, N. J. Waterproofed textile fabric. No. 132,362; June 22; v. 275; p. 817.

E. Gal, Sociedad en Comandita, Madrid, Spain. Toilet lotions. No. 132,076; June 15; v. 275; p. 615.

E. Gal, Sociedad en Comandita, Madrid, Spain. Toilet extracts. No. 132,077; June 15; v. 275; p. 615.

Earl, Charles M., Detroit, Mich. Beverage-dispensing valves. No. 132,363; June 22; v. 275; p. 817.

Eastern Felt Company, Winchester, Mass. Felt polishing-wheels. No. 131,978; June 8; v. 275; p. 414.

Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 132,364; June 22; v. 275; p. 817.

Eatsum Products Corporation, Orlando, Fla. Fruit preserves, table-syrup, orange peel. No. 132,133; June 15; v. 275; p. 616.

Economical Materials Co., Chicago, Ill. Chemical compound for use in the manufacture of beverages. No. 132,365; June 22; v. 275; p. 817.

Economy Ink Company, The, Cincinnati, Ohio. Fluid writing-ink. No. 132,668; June 29; v. 275; p. 1015.

Edison Laboratories, The, Chicago, Ill. Hair-shampoo. No. 132,366; June 22; v. 275; p. 817.

Eg-Ste-Tut Mfg. Co., Logansport, Ind. Egg-powder and egg-substitute powder. No. 131,979; June 8; v. 275; p. 414.

Eisemann Magneto Corporation, Brooklyn, N. Y. Manually and mechanically operated impulse-starters. No. 132,134; June 15; v. 275; p. 616.

Elgin National Soap Company, Elgin, Ill. Powdered soap. No. 132,135; June 15; v. 275; p. 617.

Elinor's. (See The C. S. Ball Candy Company, assignor.)

Elliot Petticoat Co., Boston, Mass. Women's petticoats. No. 132,669; June 29; v. 275; p. 1015.

Elm Undergarment Co., New York, N. Y. Corset-covers, envelop-chemises, nightgowns, petticoats, and bloomers. No. 132,266; June 15; v. 275; p. 621.

Emerson Manufacturing Company, San Francisco, Calif. Flags. Nos. 132,670–1; June 29; v. 275; p. 1015.

Emerson Shirt Co., Inc., New York, N. Y. Men's dress and negligée shirts. No. 132,136; June 15; v. 275; p. 617.

Empire Bakers Specialty Co., New York, N. Y. Eggs in powdered form. No. 132,672; June 29; v. 275; p. 1015.

Empire Paper Co., Chicago, Ill. Ledger-paper. No. 132,137; June 15; v. 275; p. 617.

Engel, Albert W., Chicago, Ill. Picture or sheet mounting devices. No. 132,673; June 29; v. 275; p. 1015.

Erber, Nathan, Fort Wayne, Ind. Skin-lotion. No. 132,368; June 22; v. 275; p. 818.

Evans, John R., & Company, Philadelphia, Pa. Leather. No. 132,674; June 29; v. 275; p. 1015.

Evans, Thomas M., East Providence, R. I. Rubber heels No. 132,138; June 15; v. 275; p. 617.

Everbright Manufacturing Company, San Francisco, Calif. Polish for cleaning, polishing, preserving, and finishing certain-named surfaces and articles. No. 131,980; June 8; v. 275; p. 414.

Evertts, Olney W., Elmira, N. Y. Wheat and pancake flour. No. 132,675; June 29; v. 275; p. 1015.

Fairfield Canning Company, The, Chillicothe, Ohio. Canned fruits and vegetables. No. 131,981; June 8; v. 275; p. 414.

Fansteel Products Company, Inc., North Chicago, Ill. Metallic deoxidizers and scavengers for use in casting metals. No. 132,139; June 15; v. 275; p. 617.

Farmakis, Nicholas, Orange, N. J. Remedy for pyorrhea. No. 132,369; June 22; v. 275; p. 818.

Fave, Emilio D., Syracuse, N. Y. Non-alcoholic maltless beverages sold as soft drinks. No. 132,140; June 15; v. 275; p. 617.

Federal Fur & Wool Company, St. Louis, Mo. Chemically-compounded fluid which attracts animals as bait. No. 132,676; June 29; v. 275; p. 1015.

Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 132,141; June 15; v. 275; p. 617.

Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 132,677; June 29; v. 275; p. 1015.

Ferguson, Herman B., New York, N. Y. Underwear for men, one and two piece garments. No. 132,370; June 22; v. 275; p. 818.
Fibre Products Co., Boston, Mass. Rubber or composition soles, heels, and taps. No. 132,142; June 15; v. 275; p. 617.
Finery Hosiery Corporation, New York, N. Y. Hosiery. No. 132,143; June 15; v. 275; p. 617.
Fleming, John S., Miltonvale, Kans. Lice-powder and disinfectants. No. 132,678; June 29; v. 275; p. 1015.
Flores, Anania, Brownsville, Pa. Medicine for stomach, liver, strength-tonic, appetite, and a physic. Nos. 132,679–80; June 29; v. 275; p. 1015.
Florida Fruit Juice Co., inc., New York, N. Y. Non-alcoholic maltless beverage. No. 132,372; June 22; v. 275; p. 818.
Food Appliance Manufacturing Corporation, Rochester, N. Y. Butter-serving machines. No. 132,373; June 22; v. 275; p. 818.
Food Appliances Manufacturing Corporation, Rochester, N. Y. Butter-serving machines. No. 132,144; June 15; v. 275; p. 617.
Fort Wayne Drug Company, Fort Wayne, Ind. Flat interior oil-paint. No. 132,374; June 22; v. 275; p. 818.
Foster Rubber Company, Kennebunk, Me., and Boston, Mass. Rubber soles and heels. No. 132,375; June 22; v. 275; p. 818.
Fowler, Charles A., Chicago, Ill. Syrup for making nonalcoholic non-cereal maltless beverages. No. 132,145; June 15; v. 275; p. 617.
Fox, Frank M., & Co., Saegertown, Pa. Carbonated laxative. No. 132,681; June 29; v. 275; p. 1015.
Frank & Lewis Company, McKeesport, Pa. Non-alcoholic herb beverage. No. 132,376; June 22; v. 275; p. 818.
Franklin Baker Company, The, Philadelphia, Pa. Packaged, grated, and shredded cocoanut. No. 132,683; June 29; v. 275; p. 1015.
Fraser, Maurice, Detroit, Mich. Sanitary cover for toilet-seats. No. 132,683; June 29; v. 275; p. 1015.
Friend Lewis, New York, N. Y. Skin-emollient. No. 132,377; June 22; v. 275; p. 818.
Fuld, Isaac, Baltimore, Md. Games, toys, and sporting goods. No. 132,378; June 22; v. 275; p. 818.
Fuller, Ralph L., & Co., Inc., Scarsdale and New York, N. Y. Dyestuffs. No. 132,684; June 29; v. 275; p. 1015.
Fulton Tool Works, Huntington, W. Va. Machinery and tools. No. 132,379; June 22; v. 275; p. 818.
Gaba, Anna B., Omaha, Nebr. Waist and skirt beltings. No. 132,685; June 29; v. 275; p. 1015.
Gage Brothers & Company, Chicago, Ill. Ladies' hats. No. 132,380; June 22; v. 275; p. 818.
Gamanos & Boosikos, New York, N. Y. Olive-oil. No. 131,982; June 8; v. 275; p. 414.
Gannon, Albert J., Meriden, Conn. Almon, honey, and cold creams, hair-tonics, &c. No. 132,686; June 29; v. 275; p. 1015.
Garfield-Stahl Company, New York, N. Y. Laces in the piece. No. 132,146; June 15; v. 275; p. 617.
Garvurin, Leon, New York, N. Y. Toilet preparations. Nos. 132,381–2; June 22; v. 275; p. 818.
General Chemical Company, New York, N. Y. Insecticide. No. 132,383; June 22; v. 275; p. 818.
General Top Company, The, Cleveland, Ohio. Vehicle-top. No. 132,687; June 29; v. 275; p. 1015.
George, Maude S., St. Louis, Mo. Sanitary baby-pants. No. 132,147; June 15; v. 275; p. 617.
Gets 'Em Co., Tifton, Ga. Liquid insecticide. No. 132,384; June 22; v. 275; p. 818.
Getz Bros. & Co., San Francisco, Calif. Canned salmon and oysters. No. 132,385; June 22; v. 275; p. 818.
Gibford-Weiffenbach Company, The, Adrian, Mich. Razor-strops. No. 132,387; June 22; v. 275; p. 818.
Gilbert, John O., Jackson, Mich. Chocolate candy. No. 131,938; June 1; v. 275; p. 199.
Gilbert Paper Company, Menasha, Wis. Writing-paper. No. 132,148; June 15; v. 275; p. 617.
Gilbert, Willis H., Chicago, Ill. Wooden poles for telegraph, telephone, traction, and power lines. No. 132,386; June 22; v. 275; p. 818.
Gill Brothers Company, Steubenville, Ohio. Lamp-chimneys, lantern-globes, &c. No. 132,149; June 15; v. 275; p. 617.
Gill, Robert L., Platteville, Wis. Sanitary aerating and protecting device. No. 131,983; June 8; v. 275; p. 414.
Gillette Safety Razor Company, Boston, Mass. Safety-razors. Nos. 132,150–2; June 15; v. 275; p. 617.
Gimbel Brothers Incorporated, Philadelphia, Pa. Synthetic pearls and beads and necklaces of same. No. 132,388; June 22; v. 275; p. 818.
Gleason & Edwin P., Son, Inc., New York, N. Y. Mercerized cotton piece goods. No. 131,939; June 1; v. 275; p. 199.
Globe Canning Co., Eastport and North Lubec, Me. Sardines. No. 132,389; June 22; v. 275; p. 818.
Globe Grocery Stores, Inc., New York, N. Y. Root-beer extract, orange, wild-cherry, and grape phosphates. No. 132,153; June 15; v. 275; p. 617.
Globe Grocery Stores, Inc., New York, N. Y. Machine-oil. No. 132,154; June 15; v. 275; p. 617.
Gloversville Welt Co., Gloversville, N. Y. Babies' washable kid-leather shoes. No. 132,155; June 15; v. 275; p. 617.
Goldman, John, Philadelphia, Pa. Coloring for the hair. No. 132,390; June 22; v. 275; p. 818.
Goldsmith, Stern & Co. (See Stern Brothers & Company, assignors.)
Goodin Reid & Co., New York, N. Y. Burlaps, ducks, drills, &c. No. 132,391; June 22; v. 275; p. 818.
Gorden, Allen G., Blytneville, Ark. Dry-cleaner for clothes. No. 132,156; June 15; v. 275; p. 617.
Gordon & Dilworth, Inc., New York, N. Y. Preserved and canned fruits, jams, catsup, &c. Nos. 131,984–5; June 8; v. 275; p. 414.
Gore, Robert J. K., Detroit, Mich. Medicine for tuberculosis. No. 132,392; June 22; v. 275; p. 818.
Grace, W. R., & Co., New York, N. Y., and San Francisco, Calif. Anilins and dyestuffs. No. 132,393; June 22; v. 275; p. 818.
Graham, Percy, Chicago, Ill. Skin-astringent. No. 132,688; June 29; v. 275; p. 1015.
Grand Union Tea Co., Brooklyn, N. Y. Petroleum jelly. No. 132,689; June 29; v. 275; p. 1015.
Grand Union Tea Co., Brooklyn, N. Y. Candy. No. 132,690; June 29; v. 275; p. 1015.
Granolax Company, The, New York, N. Y. Laxative. No. 132,394; June 22; v. 275; p. 818.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Oleomargarin. No. 131,986; June 8; v. 275; p. 414.
Great Atlantic & Pacific Tea Company, The, Jersey City, N. J. Tea. No. 132,396; June 22; v. 275; p. 818.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Baking-powder. No. 132,397; June 22; v. 275; p. 818.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Baking-powder, soda, cream of tartar, ammonia, and liquid blue. No. 132,691; June 29; v. 275; p. 1015.
Great Western Manufacturing Co., Laporte, Ind. Bicycles. No. 131,987; June 8; v. 275; p. 414.
Greenhalgh, George H., Harrison, N. J. Spark-plugs. No. 132,692; June 29; v. 275; p. 1015.
Greenlee, James A., Chicago, Ill. Reinforced paper for wrapping and packaging articles. No. 132,398; June 22; v. 275; p. 818.
Green Mountain Packing Company, Portland, Me. Canned vegetables. No. 131,988; June 8; v. 275; p. 414.
Greensburg Brewing Company, Greensburg, Pa. Malt beverage. No. 132,399; June 22; v. 275; p. 818.
Greenstein, Rudolph, New York, N. Y. Roofing-cement. No. 132,693; June 29; v. 275; p. 1015.
Griggs, Cooper & Company, St. Paul, Minn. Canned and preserved fruits, canned vegetables, &c. No. 131,989; June 8; v. 275; p. 414.
Gro-Mor Chemical Co., Cincinnati, Ohio. Dandruff-remover. No. 132,694; June 29; v. 275; p. 1015.
Gruen, D., Sons and Company, The, Cincinnati, Ohio. Watches. No. 132,157; June 15; v. 275; p. 617.
Gumbinsky Bros. Company, Chicago, Ill. Woolen blankets and woolen cloth in the piece. No. 132,400; June 22; v. 275; p. 818.
Guth Chocolate Company, Baltimore, Md. Candy. No. 131,990; June 8; v. 275; p. 414.
Gutman, Eugene, & Co., New York, N. Y. Cotton piece goods. No. 132,401; June 22; v. 275; p. 818.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods of silk. No. 132,158; June 15; v. 275; p. 617.
Haber, Isidor, Brooklyn, N. Y. Olive-oil. No. 132,695; June 29; v. 275; p. 1015.
Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. No. 131,991; June 8; v. 275; p. 414.
Habicht and Company, New York, N. Y. Shelled and unshelled nuts and dried fruits. Nos. 132,159–60; June 15; v. 275; p. 617.
Hackney, Louise W., Chicago, Ill. Hat-shields. No. 131,992; June 8; v. 275; p. 414.
Hales & Edwards Company, Chicago, Ill. Mixed grain feeds for calves and pigs. No. 132,402; June 22; v. 275; p. 819.
Hammel, Charles A., Los Angeles, Calif. Oil-burners. No. 132,696; June 29; v. 275; p. 1016.
Hammerman, Jacob K., Chicago, Ill. Children's muslin gowns. No. 132,161; June 15; v. 275; p. 617.
Hanselmann-Johnson Company, Cincinnati, Ohio. Silk fabric and ribbons in the piece. No. 132,404; June 22; v. 275; p. 819.
Harder, Francis C., Plainfield, N. J. Cotton piece goods. No. 132,163; June 15; v. 275; p. 617.
Hardie Bros. Co., Pittsburgh, Pa. Candies. No. 132,698; June 29; v. 275; p. 1016.
Harris, Abraham, New York, N. Y. Fountain-pens. No. 132,699; June 29; v. 275; p. 1016.
Harrison, Edward V., Greensboro, N. C. Medicinal compound for treatment of colds, neuralgia, grippe, and headache. No. 132,405; June 22; v. 275; p. 819.
Hart, Albert, New York, N. Y. Chamois-skins. No. 132,406; June 22; v. 275; p. 819.
Hart, L. H. C., St. Louis, Mo. White lead, zinc, dry red lead and colors in oil. No. 132,164; June 15; v. 275; p. 617.
Hart, Walter H. Grease for stopcocks and the like. No. 132,165; June 15; v. 275; p. 617.
Hartzell, George W., Piqua, Ohio. Airplane-propellers. No. 132,700; June 29; v. 275; p. 1016.
Hattori, Yozo, Los Angeles, Calif. Foods and ingredients of foods. No. 132,407; June 22; v. 275; p. 819.
Haupenstein, John, New Ulm, Minn. Cereal malt beverage. No. 132,408; June 22; v. 275; p. 819.

Hawley, Joel E., Kansas City, Mo. Dentifrice. No. 132,409; June 22; v. 275; p. 819.
Heap, William, & Sons, Grand Haven, Mich. Closet-seats and flushing-tanks. No. 131,994; June 8; v. 275; p. 414.
Hebb Motors Company, Lincoln, Nebr. Automobiles and automobile-trucks. No. 131,995; June 8; v. 275; p. 414.
Heinrich, Edward O., Boulder, Colo. Medical preparation for internal use for intestinal and urethral asepsis. No. 132,701; June 29; v. 275; p. 1016.
Hemig, Roy A., Laporte, Ind. Preparation for treatment of bunions. No. 132,871; June 29; v. 275; p. 1021.
Hemp & Co. (Corp.), St. Louis, Mo. Wood, coal, and gas heaters. No. 132,702; June 29; v. 275; p. 1016.
Henwood & Nowak, Inc., Boston, Mass. Glazed kid. No. 132,410; June 22; v. 275; p. 819.
Hercules Electric Steel Corporation, New York, N. Y. Tool-steel in bar, rod, and other forms. No. 132,703; June 29; v. 275; p. 1016.
Hermo Co., Chicago, Ill. Toilet preparations. No. 132,704; June 29; v. 275; p. 1016.
Herpich, John L., Columbus, Ohio. Medicine for use in the treatment of certain named diseases and affections. No. 132,411; June 22; v. 275; p. 819.
Hicks, Herma L., Rocky Mount, N. C. Medicinal preparation for diseases of the stomach, liver, kidneys, &c. No. 132,412; June 22; v. 275; p. 819.
Hinck, Otto H., New York, N. Y. Cotton piece goods. Nos. 132,166–9; June 15; v. 275; pp. 617–18.
Holmes and Barnes, Ltd., East Baton Rouge, La. Wheat-flour. No. 131,996; June 8; v. 275; p. 414.
Holophane Glass Co., Inc., New York, N. Y. Lenses for automobile-headlights. No. 131,997; June 8; v. 275; p. 414.
Home Woolen Mills, Eaton Rapids, Mich. Knitted and woven automobile-robes, blankets, and cloth or fabric in the piece. No. 131,940; June 1; v. 275; p. 199.
Hon, Stanislaus J., South Bend, Ind. Medicinal preparation for rheumatism. No. 132,705; June 29; v. 275; p. 1016.
Hooton Cocoa Company, Newark, N. J. Milk-chocolate bars. No. 132,706; June 29; v. 275; p. 1016.
Hoover Suction Sweeper Company, North Canton, Ohio. Electric suction-sweepers. No. 132,170; June 15; v. 275; p. 618.
Horlick, William, Jr., Racine, Wis. Malt beverage. No. 131,998; June 8; v. 275; p. 414.
Hornung, George J., West New York, N. J. Liquid preparation for the treatment of certain named diseases and affections. No. 132,413; June 22; v. 275; p. 819.
Horowitz Bros. & Margareten, Inc., New York, N. Y. Cakes or biscuits called matzohs. No. 131,941; June 1; v. 275; p. 199.
Houghton, E. F., & Co., Philadelphia, Pa. Oil rust-preventive. No. 132,171; June 15; v. 275; p. 618.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 132,172; June 15; v. 275; p. 618.
Howell and Ellis, Denver, Colo. Ointment for hemorrhoids and other rectal troubles and salve for burns, &c. No. 132,707; June 29; v. 275; p. 1016.
Hughes & Company, (Export Corporation,) New York, N. Y. Cotton, woolen, and silk goods in the piece, ribbons in the piece. No. 132,414; June 22; v. 275; p. 819.
Humphreys Homeopathic Medicine Co., New York, N. Y. Homeopathic medicine for treatment of certain named diseases and affections. Nos. 132,415–16; June 22; v. 275; p. 819.
Humphreys Homeopathic Medicine Co., New York, N. Y. Witch-hazel and ointment containing witch-hazel. No. 132,417; June 22; v. 275; p. 819.
Hunt, C. Howard, Pen Company, Camden, N. J. Steel pens. No. 132,708; June 29; v. 275; p. 1016.
Huntington Chemical Company, Huntington, Ind. Soap. No. 132,709; June 29; v. 275; p. 1016.
Hurd, George B. & Co., New York, N. Y. Writing-paper and envelops. No. 132,173; June 15; v. 275; p. 618.
Hygeia Beverage Co., The Natick, Mass. Non-alcoholic, non-cereal, maltless beverages. No. 132,174; June 15; v. 275; p. 618.
Hyman, Henry, & Co. Inc., New York, N. Y. Portable flash-lights and flash-light cases. No. 132,175; June 15; v. 275; p. 618.
I. C. T. Products Co., assignor to I. C. T. Products Co., Indianapolis, Ind. Concentrated tea syrup for making tea. No. 132,176; June 15; v. 275; p. 618.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. No. 131,999; June 8; v. 275; p. 414.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Candy confections, cocoas, chocolate, and chocolate products. Nos. 132,710–11; June 29; v. 275; p. 1016.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate. No. 132,712; June 29; v. 275; p. 1016.
Import Drug Specialties Company, The, Cleveland, Ohio. Liquid shoe dressing and cleanser. No. 132,713; June 29; v. 275; p. 1016.
Indiana Portland Cement Company, Indianapolis, Ind. Portland cement. No. 132,177; June 15; v. 275; p. 618.
Indianapolis Brewing Co., The, Indianapolis, Ind. Non-intoxicating beverage. No. 132,418; June 22; v. 275; p. 819.
Industrial Garment Co., Chicago, Ill. Outer work-shirts and overalls. No. 132,419; June 22; v. 275; p. 819.
International Cork Company, Brooklyn, N. Y. Composition floor-tiles of linoleum or other material, cork carpet, &c. No. 132,178; June 15; v. 275; p. 618.
International Insulation Company, International Falls, Minn. Wood-pulp boards and blocks. No. 132,000; June 8; v. 275; p. 414.
International Milling Company, New Prague, Minn. Wheat-flour. No. 132,001; June 8; v. 275; p. 414.
International Milling Company, New Prague, Minn. Wheat-flour. No. 132,179; June 15; v. 275; p. 618.
International Sugar Feed Co., Minneapolis, Minn. Mixed grain for chick and poultry feed, grain products, and concentrates for hog and cattle feed. No. 132,714; June 29; v. 275; p. 1016.
Iowa Skirt Manufacturing Company, The, Waterloo, Iowa. Aprons, house-dresses, petticoats, and children's garments. No. 132,180; June 15; v. 275; p. 618.
Ivy Corset Company, Worcester, Mass. Corsets, brassières, &c. No. 132,420; June 22; v. 275; p. 819.
James S. Kirk & Company, Chicago, Ill. Toilet soap. No. 132,721; June 29; v. 275; p. 1016.
Jameson, Jas. E., Detroit, Mich. Medicinal preparation. No. 132,421; June 22; v. 275; p. 819.
Jarvis, Hugh S., New York, N. Y. Motor-trucks. No. 132,002; June 8; v. 275; p. 414.
Jaxon Steel Products Company, Detroit, Mich. Vehicle-wheels. No. 132,715; June 29; v. 275; p. 1016.
Jefferson, George F., Cincinnati, Ohio. Certain named foods. No. 132,003; June 8; v. 275; p. 414.
Jiffie-Straight Company, Incorporated, Petersburg, Va. Pomade for the scalp and hair. No. 132,422; June 22; v. 275; p. 819.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 132,181; June 15; v. 275; p. 618.
Johnson, Cowdin and Co., Inc., New York, N. Y. Ribbons in the piece. No. 132,423; June 22; v. 275; p. 819.
Johnson, Edward H., Trenton, N. J. Cleansing preparation for white shoes, gloves, and belts. No. 132,424; June 22; v. 275; p. 819.
Johnson, George T., Co., The, Boston, Mass. Toilet-paper. No. 132,182; June 15; v. 275; p. 618.
Johnson, Nathan G., Atmore, Ala. Liniment for swollen joints, rheumatism, &c. No. 132,425; June 22; v. 275; p. 819.
Jones Motor Car Co., The, Wichita, Kans. Pleasure-automobiles and motor-trucks. No. 132,716; June 29; v. 275; p. 1016.
Joseph Krieg-Fink Co., Inc., Jersey City, N. J. Non-intoxicating maltless beverage. No. 132,433; June 22; v. 275; p. 820.
Justice, Frank G., Philadelphia, Pa. Cake. No. 132,717; June 29; v. 275; p. 1016.
Kahn, William, St. Louis, Mo. Cold-creams, hair-tonics, and shampoos. No. 132,426; June 22; v. 275; p. 819.
Kea, William, Dublin, Ga. Worm and insect exterminator. No. 132,427; June 22; v. 275; p. 819.
Kendal & Slusser, Mentor township, Lake county, Ohio. Eggs. No. 132,428; June 22; v. 275; p. 819.
Kennesaw-Hosiery Company, The, Marietta, Ga. Men's hosiery. No. 132,183; June 15; v. 275; p. 618.
Kenton Pharmacal Company, The, Covington, Ky. Hair-tint. No. 132,718; June 29; v. 275; p. 1016.
Kewley Bros., Battle Creek, Mich. Preparation administered internally to horses and other live stock. No. 132,429; June 22; v. 275; p. 819.
Keystone Oil & Manufacturing Company, Chicago, Ill. Screw-cutting oils. No. 132,719; June 29; v. 275; p. 1016.
Kildirt Soap Products Company, Seattle, Wash. Soap, soap powders, and cleansers. No. 132,720; June 29; v. 275; p. 1016.
Kimball, C. M., Company, Winthrop, Mass. Metal-polish. No. 132,004; June 8; v. 275; p. 414.
King, Oliver, Knoxville, Tenn. White-marble lime. No. 132,005; June 8; v. 275; p. 414.
Kirk, James S., & Company, Chicago, Ill. Toilet and laundry soap. No. 132,430; June 22; v. 275; p. 820.
Kirschner-Hendler Co., New York, N. Y. Ladies' silk camisoles. No. 132,431; June 22; v. 275; p. 820.
Kissel Motor Car Company, The, Hartford, Wis. Automobiles. No. 132,722; June 29; v. 275; p. 1016.
Kistler, Lesh & Company, Boston, Mass. Leather. Nos. 132,006–8; June 8; v. 275; p. 414.
Klemperer, Gustav, New York, N. Y. Preparation for prevention and treatment of infectious diseases. No. 132,432; June 22; v. 275; p. 820.
Kops Bros., New York, N. Y. Textile fabrics. No. 131,942; June 1; v. 275; p. 199.
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese of various kinds. No. 132,723; June 29; v. 275; p. 1016.
Kullman, Salz & Co., San Francisco, Calif. Hides and leathers. Nos. 132,734–5; June 29; v. 275; p. 1016.
Kurz Bros. Inc., New York, N. Y. Ladies' hats. No. 132,184; June 15; v. 275; p. 618.
Lady Jefferson Candy Company, Birmingham, Ala. Candies. No. 132,726; June 29; v. 275; p. 1016.
Lamar, Taylor & Riley Drug Co., Macon, Ga. Skin-soap. No. 132,434; June 22; v. 275; p. 820.
Landers, Frary & Clark, New Britain, Conn. Cooking and kitchen utensils of aluminum. No. 132,186; June 15; v. 275; p. 618.
Langenberg Hat Company, St. Louis, Mo. Leather and fabric gloves. No. 132,435; June 22; v. 275; p. 820.

La Pierre Manufacturing Co., Newark, N. J. Concentrated writing-ink. No. 132,185; June 15; v. 275; p. 618.
Large & Roomy Overall Mfg. Co., The. Overalls and pants. No. 132,187; June 15; v. 275; p. 618.
Larson, L. P., Jr., Co., Chicago, Ill. Confection known as mints. No. 132,009; June 8; v. 275; p. 414.
Laserson, Frederick M., New York, N. Y. Electrically-operated cloth-cutters and cloth-cutting machines. No. 132,188; June 15; v. 275; p. 618.
Laubheim Bros., New York, N. Y. Jewelry and precious-metal ware. No. 132,436; June 22; v. 275; p. 820.
Lawry, Rolla C., St. Louis, Mo. Preparation used as a deodorant and a relief for excessive perspiration. No. 132,505; June 22; v. 275; p. 820.
Leach-Blitwell Motor Company, Los Angeles, Calif. Automobiles. No. 132,010; June 8; v. 275; p. 414.
Le Blond, R. K., Machine Tool Company, The. Lathes. No. 132,189; June 15; v. 275; p. 618.
Lekko Soap Company, Chicago, Ill. Powder for cleaning and scouring. No. 132,437; June 22; v. 275; p. 820.
Leoffler, Severn G., Jr., Washington, D. C. Prepared lunches in package form. No. 132,011; June 8; v. 275; p. 415.
Leonard, Ralph O., Park Place, Tex. Remedy to be used as a mouth-wash. No. 132,728; June 29; v. 275; p. 1016.
Lesher, Whitman & Co., Inc., New York, N. Y. Fabric made with a cotton warp. No. 132,729; June 29; v. 275; p. 1017.
Levy, Joseph I., Philadelphia, Pa. Sanitary paper cover for toilet seats. No. 132,730; June 29; v. 275; p. 1017.
Libby, McNeill & Libby, Chicago, Ill. Certain named foods. Nos. 132,012–13; June 8; v. 275; p. 415.
Liebs, L. A., Co., Inc., New York, N. Y. Box-cover wrappers, package and shipping labels and tags. No. 132,731; June 29; v. 275; p. 1017.
Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Silks in the piece. No. 132,190; June 15; v. 275; p. 618.
Link Belt Company, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Idlers and rolls for conveying machinery. No. 132,438; June 22; v. 275; p. 820.
Locke Steel Chain Company, The, Bridgeport, Conn. Sprocket and driving chains for agricultural and other machinery and apparatus. No. 132,439; June 22; v. 275; p. 820.
Loos & Dilworth, Philadelphia, Pa. Core-oils. No. 132,191; June 15; v. 275; p. 618.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 132,192; June 15; v. 275; p. 618.
Loose-Wiles Biscuit Company, New York, N. Y. Cakes, wafers, and crackers or biscuits. No. 132,193; June 15; v. 275; p. 618.
Lord & Taylor, New York, N. Y. Synthetic pearls. No. 132,194; June 15; v. 275; p. 618.
Louisville Food Products Company, Louisville, Ky. Soap. No. 132,440; June 22; v. 275; p. 820.
Lowry Laboratory, Inc., Hoboken, N. J. Solutions of medicinal arsenical compounds. No. 132,441; June 22; v. 275; p. 820.
Loyer, Mary A., Denver, Colo. Tablet containing radium therapeutic qualities. No. 132,732; June 29; v. 275; p. 1017.
Ludewig, Fred'k., & Co., New York, N. Y. Elastic veil. No. 131,943; June 1; v. 275; p. 199.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. No. 132,442; June 22; v. 275; p. 820.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 132,443–4; June 22; v. 275; p. 820.
Lyon and Healy, Chicago, Ill. Pedals for musical instruments. No. 132,734; June 29; v. 275; p. 1017.
Lyon & Greenleaf Co., Ligonier, Ind. Wheat-flour. No. 132,733; June 29; v. 275; p. 1017.
McClintic-Marshall Products Company, Pittsburgh, Pa. Structural steel. No. 132,014; June 8; v. 275; p. 415.
McClure, Ulysses G., Chicago, Ill. Preparations for the treatment of eczema, acne, &c. No. 132,575; June 22; v. 275; p. 824.
McDonald Bros. Co., Minneapolis, Minn. Suspenders and dress-shields. No. 132,015; June 8; v. 275; p. 415.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for external use in skin diseases, &c. No. 132,445; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for external use, for rheumatism, sprains, sore throat, &c. No. 132,446; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for germicidal purposes and affections of throat and mouth. No. 132,447; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Preparations for repelling mosquitos and healing their bites. No. 132,448; June 22; v. 275; p. 820.
McKesson & Robbins Inc., New York, N. Y. Medicinal preparations for certain skin disorders and as a blood-purifier. No. 132,449; June 22; v. 275; p. 820.
McManus, Edward C., San Francisco, Calif. Orange-juice. No. 132,450; June 22; v. 275; p. 820.
McMillen Co., The, Fort Wayne, Ind. Hog, horse, dairy, and scratch feed. No. 132,016; June 8; v. 275; p. 415.
Macanite Company of America, Philadelphia, Pa. Magnesium-oxychlorid cement and certain products made therefrom. No. 132,017; June 8; v. 275; p. 415.
Machine Appliance Corporation, Brooklyn, N. Y. Articles of stationery, eyelets for fastening purposes, such as may be used for binding paper, &c. No. 132,195; June 15; v. 275; p. 618.
Maddas, Frank A., Jeannette, Pa. Malt beverage containing less than one-half of one per cent. alcohol. No. 132,196; June 15; v. 275; p. 618.
Magee, David F., York, Pa. Candy. No. 132,018; June 8; v. 275; p. 415.
Magglores & Rousos, Rochester, N. Y. Olive-oil. No. 132,735; June 29; v. 275; p. 1017.
Majestic Tire & Rubber Co., Indianapolis, Ind. Rubber tires. No. 132,451; June 22; v. 275; p. 820.
Maltbie Chemical Company, The, Newark, N. J. Medicinal tablets for treatment of diseases of the biliary system. No. 132,452; June 22; v. 275; p. 820.
Manning Abrasive Company, Inc., Troy, N. Y. Abrasive or grinding belts. No. 132,453; June 22; v. 275; p. 820.
Mannello, Angelo, New York, N. Y. Phonographs and talking-machines. No. 132,736; June 29; v. 275; p. 1017.
Manteca Canning Co., Manteca, Calif. Canned fruits and vegetables. Nos. 132,737–8; June 29; v. 275; p. 1017.
Manteca Canning Co., Manteca, Calif. Canned apricots. No. 132,739; June 29; v. 275; p. 1017.
Manteca Packing Company, Manteca, Calif. Canned fruits. No. 132,740; June 29; v. 275; p. 1017.
Maple Products Company, The. (See Argo, Fred N., assignor.)
Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for personal wear. No. 132,019; June 8; v. 275; p. 415.
Marathon Tire and Rubber Co., Cuyahoga Falls, Ohio. Composition rubber material in sheet form. No. 132,741; June 29; v. 275; p. 1017.
Marine Decking & Supply Co., Philadelphia, Pa. Tackle and pulley blocks. No. 132,454; June 22; v. 275; p. 820.
Marmon Chicago Company, The, Chicago, Ill., assignor to The Arc-O-Manufacturing Co. Inc., of Chicago, Ill. Spark-plugs. No. 132,197; June 15; v. 275; p. 618.
Marshall Oil Company, Marshalltown, Iowa. Wax polish. No. 132,455; June 22; v. 275; p. 820.
Martin-Scott Engineering Co., New York, N. Y. Farm-tractors. No. 132,456; June 22; v. 275; p. 820.
Mayehoff, M. M., & Co., Incorporated, Norwalk, Conn. Clothing. No. 132,457; June 22; v. 275; p. 820.
Mennel Milling Company, The, Toledo, Ohio. Self-rising wheat-flour. No. 132,198; June 15; v. 275; p. 618.
Merrell, William S., Company, The, Cincinnati, Ohio. Liquid heart-tonic. No. 132,458; June 22; v. 275; p. 820.
Merrill-Hamilton Company, Kansas City, Mo. Lubricating-paste. No. 132,199; June 15; v. 275; p. 618.
Metal composition, Bese-Landers, Frary & Clark. No. 132,727; June 29; v. 275; p. 1016.
Metz, Herman A., New York, N. Y. Medicines and pharmaceutical preparations. No. 132,743; June 29; v. 275; p. 1017.
Meyer, John H., Silk Mills Co., Northampton borough, Pa., and New York, N. Y. Silk piece goods. Nos. 132,200–1; June 15; v. 275; p. 618.
Meyer, Otto, & Co., New York, N. Y. Leather. No. 132,020; June 8; v. 275; p. 415.
Miami Chemical Co., Cincinnati, Ohio. Deodorant and antiseptic powders. No. 132,459; June 22; v. 275; p. 820.
Michigan Motor Garment Co., Greenville, Mich. Clothing—namely, overalls and jackets for men, youths, and children. No. 132,202; June 15; v. 275; p. 619.
Mickey Company, The, Hanover, Pa. Non-alcoholic non cereal maltless orange-flavored syrup for carbonated soft drinks. No. 132,460; June 22; v. 275; p. 821.
Middletown Accessory-Laboratories Company, The, Middletown, Ohio. Tire-filling compound. No. 132,203; June 15; v. 275; p. 619.
Migel, J. A., Inc., New York, N. Y. Silk piece goods. No. 132,021; June 8; v. 275; p. 415.
Migel, J. A., Inc. New York, N. Y. Parasols and umbrellas. No. 132,204; June 15; v. 275; p. 619.
Miller, Daniel, Company, Baltimore, Md. Cotton piece goods. No. 132,205; June 15; v. 275; p. 619.
Miller Rubber Co., The, Akron, Ohio. Rubber sponges. No. 132,206; June 15; v. 275; p. 619.
Mills, Chester S., Pittsburgh, Pa. Medicated tablets used as a laxative. No. 132,461; June 22; v. 275; p. 821.
Minwax Company, Inc., New York, N. Y. Varnish composition. No. 132,207; June 15; v. 275; p. 619.
Miracle Company, Chicago, Ill. Non-alcoholic fruit beverage. No. 132,208; June 15; v. 275; p. 619.
Mitchell & Dillon Coal Co., Chicago, Ill. Coal. No. 132,022; June 8; v. 275; p. 415.
Mitchell, Robert G., Mount Vernon, N. Y. Phonographs, talking-machines, sound-boxes, and needles therefor. No. 132,744; June 29; v. 275; p. 1017.
Mitchell-Tappen Company, New York, N. Y. Metal grating. No. 132,745; June 29; v. 275; p. 1017.
Moadinger, Edgar L., New York, N. Y. Medicine for rheumatic ailments. No. 132,746; June 29; v. 275; p. 1017.
Modern Food Company, New York, N. Y. Powder convertible into beverages. No. 132,747; June 29; v. 275; p. 1017.
Morgenstern & Company, New York, N. Y. Phenylcinchoninic acid. No. 132,748; June 29; v. 275; p. 1017.

Mount Airy Canning Co., The, Mount Airy, Md. Canned vegetables. No. 132,749; June 29; v. 275; p. 1017.
Mueller, Emil, Springfield, Ohio. Composition rubbing-stone. No. 132,209; June 15; v. 275; p. 619.
Muller, Charles, Chicago, Ill. Blown-oil asphalts. No. 132,023; June 8; v. 275; p. 415.
Muller-Thym, Bernard, Kansas City, Mo. Oil for sanctuary lamps and candles. No. 132,263; June 15; v. 275; p. 621.
Musher & Company, Incorporated, New York, N. Y.; San Diego, Calif.; Baltimore, Md., and Washington, D. C. Olive-oil. No. 132,024; June 8; v. 275; p. 415.
N. V. Handelsvereeniging Gebrs. Rikkers, Amsterdam, Netherlands. Lead-pencils, writing-pens, and rubber erasers. No. 132,162; June 15; v. 275; p. 617.
Nacoma Textile Co., New York, N. Y. Woolen dress piece goods and fancy cotton piece goods. No. 132,210; June 15; v. 275; p. 619.
Napier Saw Works, Inc., Springfield, Mass. Saws and saw-frames and metal-cutting band-saw machines. No. 132,211; June 15; v. 275; p. 619.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 132,750–3; June 29; v. 275; p. 1017.
National Cocoanut Butter Company, Tacoma, Wash. Cocoanut-butter. No. 132,754; June 29; v. 275; p. 1017.
National Fibre and Insulation Company, Yorklyn, Del. Vulcanized fiber in sheets, rods, tubes, &c. No. 132,025; June 8; v. 275; p. 415.
National Spark Plug Company, Rockford, Ill. Spark-plugs. No. 132,212; June 15; v. 275; p. 619.
National Sulfern Soap Co., Denver, Colo. Soap in bar, powdered, or paste form. No. 132,026; June 8; v. 275; p. 415.
National Watch Company, Inc., New York, N. Y. Watch-movements. No. 132,213; June 15; v. 275; p. 619.
National X-Ray Reflector Co., Chicago, Ill. Glass reflectors. No. 132,027; June 8; v. 275; p. 415.
Neenah Paper Co., Neenah, Wis. Bond-paper for writing, printing, and ledger purposes. No. 132,214; June 15; v. 275; p. 619.
Nelson-Dashiell Company, The, Baltimore, Md. Confectionery. No. 132,028; June 8; v. 275; p. 415.
Nelson, Olaf A., San Francisco, Calif. Canned fruits and canned tomatoes. No. 132,215; June 15; v. 275; p. 619.
Nelson, Olaf A., San Francisco, Calif. Canned fruits and tomatoes. Nos. 132,462–3; June 22; v. 275; p. 821.
New England Structural Company, Boston, Mass. Structural steel and iron—viz., beams, channels, girders, trusses, &c. No. 132,464; June 22; v. 275; p. 821.
New Era Products Company, The, Lancaster, Ohio. Medicine for indigestion, dyspepsia, and constipation. No. 132,755; June 29; v. 275; p. 1017.
Newmark, Fred, New York, N. Y. Ladies' flat underwear. No. 132,216; June 15; v. 275; p. 619.
Newmark, Fred, New York, N. Y. Ladies' flat underwear. No. 132,465; June 22; v. 275; p. 821.
New Process Cork Company, New York, N. Y. Cork disks and washers for sealing bottles, jars, &c. No. 132,029; June 8; v. 275; p. 415.
New Products Company, Pittsburgh, Pa. Paper and stationery. No. 132,756; June 29; v. 275; p. 1017.
New York Oversea Co., New York, N. Y. Writing and printing bond-paper, ledger and writing-paper, and mailing-envelops. No. 132,757; June 29; v. 275; p. 1017.
Nichols Underwear Corporation, The, Bridgeport, Conn. Clothing. No. 132,466; June 22; v. 275; p. 821.
Nickels Manufacturing Company, Bristol, Va. Women's, misses', and children's blouses and suits. No. 132,217; June 15; v. 275; p. 619.
Nishikawa, Sadatsugu, Los Angeles, Calif. Canned tea. No. 132,758; June 29; v. 275; p. 1017.
Noble, Charles, Jr., Company, Buffalo, N. Y. Fresh and canned oysters, shrimp, and crabs, and fresh, salted, and canned fish. No. 132,759; June 29; v. 275; p. 1017.
Noble Heater Company, Fort Wayne, Ind. Automobile exhaust heaters. No. 132,760; June 29; v. 275; p. 1017.
Nomend Hosiery Mills, M. B. Laubach Co., Inc., Philadelphia, Pa. Hosiery. No. 132,218; June 15; v. 275; p. 619.
Non-Metallic Flux Company, Newark, N. J. Crucible and fire-brick coating compound. No. 132,761; June 29; v. 275; p. 1017.
Nulomoline Company, The, New York, N. Y. Non-alcoholic preparation used as a sweetening for beverages. No. 132,219; June 15; v. 275; p. 619.
Number 13 Chemical Co., Hoboken and Newark, N. J. Insecticide. No. 132,469; June 22; v. 275; p. 821.
Nu-Ray Polish Manufacturing Co., Provo, Utah. Polish for furniture, &c. No. 132,467; June 22; v. 275; p. 821.
Nut-Grove Butter Company, Providence, R. I. Oleomargarin. No. 132,468; June 22; v. 275; p. 821.
Nut House, Inc., The, Seattle, Wash. Sugared peanuts. No. 132,762; June 29; v. 275; p. 1018.
Odell, Mrs. Mary, Peekskill, N. Y. Ointment for external application to sores of blood-poisoning. No. 132,763; June 29; v. 275; p. 1018.
Ohio Grease Company, The, Loudonville, Ohio. Oils and greases. No. 132,764; June 29; v. 275; p. 1018.
Ohio Hotel Operating Company, The, Youngstown, Ohio. Chocolates. No. 132,765; June 29; v. 275; p. 1018.
Ohio Suspender Company, The, Mansfield, Ohio. Suspenders, garters, and belts. No. 132,030; June 8; v. 275; p. 415.
Ollendorff, L., Company, New York, N. Y. Watches, watch-movements, watchcases, and dials. No. 132,220; June 15; v. 275; p. 619.
Olson, Sven H., Colorado Springs, Colo. Hair-tonic for dandruff and falling hair. No. 132,767; June 29; v. 275; p. 1018.
Omega Chemical Company, The, New York, N. Y. Remedy for certain named ailments and toilet preparations. No. 132,470; June 22; v. 275; p. 821.
Oneida Corporation, Chicago, Ill. Depilatories. No. 132,471; June 22; v. 275; p. 821.
O'Neill, Peter L., Jersey City, N. J. Boiler-preserver. No. 132,472; June 22; v. 275; p. 821.
O-Pee-Chee Gum Co., Limited, London, Ontario, Canada. Chewing-gum. No. 132,221; June 15; v. 275; p. 619.
Orange Hosiery Mills, Orange, N. J. Hosiery. No. 132,473; June 22; v. 275; p. 821.
Osborn Paper Company, Marion, Ind. Writing and printing papers and writing-tablets. Nos. 132,768–9; June 29; v. 275; p. 1018.
Osburn, C. S., & Co., Newark, Ohio. Garden, flower, vegetable, &c., seeds. No. 132,474; June 22; v. 275; p. 821.
Ostrowsky, H., Co., Chicago, Ill. Boys' overalls, play-suits, waists, &c. No. 132,475; June 22; v. 275; p. 821.
Otis Manufacturing Co., New Orleans, La. Lumber—viz, Spanish cedar and mahogany. No. 132,770; June 29; v. 275; p. 1018.
Owl Drug Company, The, Decatur, Ala. Compounds for treating certain named diseases and affections. No. 132,476; June 22; v. 275; p. 821.
Page, Handley, Limited, London, England. Flying-machines, balloons, bicycles, &c. No. 131,993; June 8; v. 275; p. 414.
Page, Handley, Limited. Cricklewood, London, England. Hides, skins, and unwrought leather. No. 132,697; June 29; v. 275; p. 1016.
Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 132,771; June 29; v. 275; p. 1018.
Panafieu Pere et Fils, Paris, France. Hair-coloring for the beard and hair. No. 132,371; June 22; v. 275; p. 818.
Panther Rubber Manufacturing Company, Stoughton and Chelsea, Mass. Rubber and rubber-composition heels. No. 132,477; June 22; v. 275; p. 821.
Para Crude Oil Corp., New York, N. Y. Paint-oil. No. 132,478; June 22; v. 275; p. 821.
Paraffine Companies, Inc., The, San Francisco, Calif. Waterproof roofings and building-papers. No. 132,772; June 29; v. 275; p. 1018.
Paragon Button Corporation, New York, N. Y. Pearl buttons. No. 132,031; June 8; v. 275; p. 415.
Park & Pollard Company, The, Boston, Mass. Mixed food for hogs. No. 132,479; June 22; v. 275; p. 821.
Parke, Davis & Company, Detroit, Mich. Germicide, disinfectant, antiseptic, &c. No. 132,773; June 29; v. 275; p. 1018.
Partola Distributing Company, New York, N. Y. Face-creams. No. 132,774; June 29; v. 275; p. 1018.
Partola Distributing Company, New York, N. Y. Laxative medicine in candy form. No. 132,775; June 29; v. 275; p. 1018.
Parzon Pharmacal Company, Dayton, Ohio. General system-tonic and blood-medicine. No. 132,480; June 22; v. 275; p. 821.
Patton-Jones, Montgomery, Tex. Salve for certain named ailments. No. 132,776; June 29; v. 275; p. 1018.
Pauley, Roy, Schenectady, N. Y. Candy. No. 132,777; June 29; v. 275; p. 1018.
Penn Bros. Suspender Company, Madison, N. C. Garters. No. 132,778; June 29; v. 275; p. 1018.
Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 132,032; June 8; v. 275; p. 415.
Penn Rivet Corporation, Philadelphia, Pa. Pearl buttons. No. 132,222; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Shoe-laces. No. 132,223; June 15; v. 275; p. 619.
Penn Rivet Corporation, Philadelphia, Pa. Garters. No. 132,224; June 15; v. 275; p. 619.
Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. No. 132,225; June 15; v. 275; p. 619.
Perkins & McNeely, Philadelphia, Pa. Patent-leather. No. 132,779; June 29; v. 275; p. 1018.
Philadelphia Pile Fabric Mills, Philadelphia, Pa. Plush piece goods. No. 132,226; June 15; v. 275; p. 619.
Philip Carey Manufacturing Company, Lockland, Ohio. Roofing and metal paints. No. 132,481; June 22; v. 275; p. 821.
Phillips, Joseph J., Brooklyn, N. Y. Tooth-paste. No. 132,780; June 29; v. 275; p. 1018.
Phillips, Phil D., Spencer, W. Va. Tonic preparation for treatment of certain named diseases and affections. No. 132,482; June 22; v. 275; p. 821.
Phinizee, Emma J., New York, N. Y. Hair-tonics. No. 132,486; June 22; v. 275; p. 821.
Phosphor Bronze Smelting Company, Philadelphia, Pa. Alloys of copper, tin, zinc, and phosphor-bronze. Nos. 132,484–5; June 22; v. 275; p. 821.
Pierce, Eugene G., Chicago, Ill. Popcorn, shelled and unpopped. No. 132,781; June 29; v. 275; p. 1018.
Pioneer Corporation, Chicago, Ill. Luminous pendant. No. 132,033; June 8; v. 275; p. 415.
Pittman & Harrison Company, Sherman, Tex. Oat-seeds. No. 132,034; June 8; v. 275; p. 415.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Artificially-prepared roofing. No. 132,035; June 8; v. 275; p. 415.

Plaut, L., & Co., New York, N. Y. Metallic shades and reflectors for lighting-fixtures. No. 132,036; June 8; v. 275; p. 475.

Plough, Abraham, Memphis, Tenn. Hair-dressing. No. 132,483; June 22; v. 275; p. 821.

Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 132,587; June 22; v. 275; p. 821.

Pockman, Leonard H., San Francisco, Calif. Laxative tablets. No. 132,488; June 22; v. 275; p. 821.

Podiatry Shoe Company, Inc., New York, N. Y. Orthopedic shoes, &c. No. 132,489; June 22; v. 275; p. 821.

Pompeian Mfg. Co., The, Cleveland, Ohio. Pharmaceutical preparations. No. 132,490; June 22; v. 275; p. 821.

Post Pictures Corporation, New York, N. Y. Pictures to be projected upon a screen, motion-picture films, &c. No. 132,491; June 22; v. 275; p. 822.

Prels, J. J., & Company, New York, N. Y. Outer garments for young men and boys. No. 132,227; June 15; v. 275; p. 619.

Price Compound Company, Minneapolis, Minn. Preservative compound for meats, fish, and fowl. No. 132,782; June 29; v. 275; p. 1018.

Priscilla Publishing Co., Boston, Mass. Fancy goods, furnishings, and notions. No. 132,783; June 29; v. 275; p. 1018.

Procter and Gamble Company, The, Cincinnati, Ohio. Soap. No. 132,037; June 8; v. 275; p. 415.

Procter and Gamble Company, The, Cincinnati, Ohio. Soap. Nos. 132,228–9; June 15; v. 275; p. 619.

Propper, Leo, New York, N. Y. Women's and children's hosiery. No. 132,230; June 15; v. 275; p. 619.

Prussian, Samuel W., Cambridge, Mass. Internal-gear drive units and drives for motor-vehicles, &c. No. 132,038; June 8; v. 275; p. 415.

Puritan Silks Corporation, Chicago, Ill. Silk piece goods. No. 132,231; June 15; v. 275; p. 619.

Purity Cross, Inc., West Orange, N. J. Ginger-ale. No. 132,232; June 15; v. 275; p. 619.

Pyramid Clothing Manufacturing Company, St. Louis, Mo. Overalls, coats, dress and work shirts, slickers, hosiery, &c. No. 132,492; June 22; v. 275; p. 822.

Pyro Products Company, Chicago, Ill. Fire-brick. No. 132,039; June 8; v. 275; p. 415.

Q. R. S. Company, Chicago, Ill. Talking-machine records. No. 132,784; June 29; v. 275; p. 1018.

Quakertown Stove Works, Quakertown, Pa. Coal, gas, and wood heaters, stoves, and ranges. No. 132,785; June 29; v. 275; p. 1018.

Quiesser & Co., Hamburg, Germany. Creams and paste for the teeth. No. 132,493; June 22; v. 275; p. 822.

Quiesser & Co., Hamburg, Germany. Cream, particularly an ointment for improvement of the skin. No. 132,494; June 22; v. 275; p. 822.

Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Refractory brick. No. 132,040; June 8; v. 275; p. 415.

R. O. R. Chemical Co., Red Lion, Pa. Compound for removing road oils and tars from automobiles and clothing. No. 132,328; June 22; v. 275; p. 816.

Radium Luminous Material Corporation, New York, N. Y. Self-luminous material, such as compounds containing zinc, sulfid, and radium. No. 132,495; June 22; v. 275; p. 822.

Rainier Products Company, Seattle, Wash. Malt cereal beverage. Nos. 132,496–7; June 22; v. 275; p. 822.

Ravich, L., & Sons, Inc., New York, N. Y. Belts for supporting garments. No. 132,786; June 29; v. 275; p. 1018.

Reeves, Lucy J., Atlanta, Ga. Hair-grower shampoo, brilliantine, or pressing-oil. No. 132,788; June 29; v. 275; p. 1018.

Reiss, M., & Son, New York, N. Y. Petticoats, dress and under skirts. No. 132,498; June 22; v. 275; p. 822.

Reliable Chemical Co., New York, N. Y. Reconstructive medicinal tonic. No. 132,499; June 22; v. 275; p. 822.

Remiller Company, The, New York, N. Y. Soaps, shaving preparations. No. 132,041; June 8; v. 275; p. 416.

Republic Company, The, Pittsburgh, Pa. Louisiana moss for upholstery purposes. No. 132,789; June 29; v. 275; p. 1018.

Reusing, Andrew L., Akron, Ohio. Medicine combining the phosphates of calcium, sodium, and iron with phosphates of potassium and magnesium. No. 132,500; June 22; v. 275; p. 822.

Revere Motor Car Corporation, Logansport, Ind. Automobiles. Nos. 132,501–2; June 22; v. 275; p. 822.

Rhea Chemical Company, The, Denver, Colo. Antiseptic astringent deodorant. No. 132,503; June 22; v. 275; p. 822.

Rice & Hutchins, Incorporated, Boston, Mass. Leather of all kinds. No. 132,790; June 29; v. 275; p. 1018.

Robinson, Thomas F., Minneapolis, Minn. Automatic steering device for motor-vehicles. No. 132,042; June 8; v. 275; p. 416.

Rock Island Stove Company, Rock Island, Ill. Warm-air furnace, &c. No. 132,043; June 8; v. 275; p. 416.

Rodriquez, Romon, Tampa, Fla. Polish for cleaning glass, jewelry, and metals. No. 132,504; June 22; v. 275; p. 822.

Roemer, Ed. B., Zanesville, Ohio. Overalls, jackets, jumpers, and work-clothes. No. 132,233; June 15; v. 275; p. 619.

Roethlisberger & Co. Inc., New York, N. Y. Cheese. No. 132,044; June 8; v. 275; p. 416.

Rommel, Louis, New York, N. Y. Phonographs, phonograph records, sound-boxes, and needles. No. 132,234; June 15; v. 275; p. 620.

Roth, Charles, New York, N. Y. Ladies' hats. No. 132,506; June 22; v. 275; p. 822.

Rowe Manufacturing Co., Galesburg, Ill. Gates constructed wholly or partially of wood. No. 132,235; June 15; v. 275; p. 620.

Roxbury Carpet Company, Boston, Mass. Carpets. No. 132,236; June 15; v. 275; p. 620.

Royal Cone Co., Detroit, Mich. Ice-cream cones. No. 132,045; June 8; v. 275; p. 416.

Rubary Company, Cleveland, Ohio. Aeroplanes and component parts thereof. No. 132,046; June 8; v. 275; p. 416.

Rupe, Veazy P., Indianapolis, Ind. Antiseptic and anesthetic gargle. No. 132,507; June 22; v. 275; p. 822.

Rupert, A., Company, Inc., Portland, Oreg. Canned fish—namely, canned salmon. No. 132,791; June 29; v. 275; p. 1018.

Rupert, A., Company, Inc., Portland, Oreg. Canned foods. No. 132,792; June 29; v. 275; p. 1018.

Rusconi, Louis, Wahtoke, Calif. Fresh grapes. No. 132,793; June 29; v. 275; p. 1018.

Rust-Knott Mfg. Co., Toledo, Ohio. Drying liquid composition in the nature of a lacquer or paint. No. 132,237; June 15; v. 275; p. 620.

Ryan-Eastman Co., The, Cedar Rapids, Iowa. Carbon-removers. No. 132,794; June 29; v. 275; p. 1018.

Rybowski, Martin D., Cleveland, Ohio. Stomach-tonic. No. 132,795; June 29; v. 275; p. 1018.

S. D. Vansickle Estate, Ashland, Pa. Preparation for the treatment of certain named ailments. No. 132,848; June 29; v. 275; p. 1020.

Safety Night Light Company, Brooklyn, N. Y. Candles. No. 132,796; June 29; v. 275; p. 1019.

St. Louis Cooperage Company, St. Louis, Mo. Barrels and kegs. No. 132,821; June 29; v. 275; p. 1019.

Salembier & Clay, Inc., New York, N. Y. Silk crape piece goods. No. 131,944; June 1; v. 275; p. 199.

Saler, Samuel, Philadelphia, Pa. Tub-butter. No. 132,238; June 15; v. 275; p. 620.

Saltzman & Berman, New York, N. Y. Pile fabrics, cotton, linen, and silk piece goods. No. 132,239; June 15; v. 275; p. 620.

Samson Tractor Company, Janesville, Wis. Tractors for hauling agricultural implements and other similar agricultural purposes. No. 132,508; June 22; v. 275; p. 822.

Samstag & Hilder Bros., New York, N. Y. Snap-fasteners. No. 132,047; June 8; v. 275; p. 416.

Sauer, C. F., Company, The, Richmond, Va. Non-alcoholic, non-cereal, maltless flavoring extracts for beverages. No. 132,509; June 22; v. 275; p. 822.

Saxo Chemical Co., Houston, Tex. Plastic surgical dressing. No. 132,510; June 22; v. 275; p. 822.

Saxo Chemical Co., Houston, Tex. Liquid antiseptic used as a gargle, mouth-wash, &c. No. 132,511; June 22; v. 275; p. 822.

Scafe, Roy C., Brooklyn, N. Y. Liniment for certain named ailments. No. 132,512; June 22; v. 275; p. 822.

Scarlett, James, Seattle, Wash. Waterproof fabrics. No. 132,797; June 29; v. 275; p. 1019.

Schaefer, F. & M., Brewing Co., New York, N. Y. Soft drink. No. 132,513; June 22; v. 275; p. 822.

Schieffelin & Co., New York, N. Y. Medicinal compound for external treatment of hay-fever. No. 132,514; June 22; v. 275; p. 822.

Schiff, David, New York, N. Y. Candies. No. 132,798; June 29; v. 275; p. 1019.

Schlosser, M. & F., New York, N. Y. Writing and wrapping paper, cardboard, and paper mailing-envelops. No. 132,799; June 29; v. 275; p. 1019.

Schmid, Julius Incorporated, New York, N. Y. Capping-skins for stoppered bottles. No. 132,801; June 29; v. 275; p. 1019.

Schmid, Julius, Incorporated, New York, N. Y. Face-powder and rouges. No. 132,800; June 29; v. 275; p. 1019.

Schulman & Hauptman, New York, N. Y. Misses' coats, and suits. No. 132,515; June 22; v. 275; p. 822.

Schwartz, Chas. M., Philadelphia, Pa. Bath and lounging robes and smoking-jackets. No. 132,516; June 22; v. 275; p. 822.

Scintilla, Solothurn, Switzerland. Electrical apparatus, machines, and supplies. No. 132,240; June 15; v. 275; p. 620.

Scott & Bowne, Bloomfield, N. J. Cod-liver oil. No. 132,517; June 22; v. 275; p. 822.

Scott Corporation, The, Chicago, Ill. Electrical testing switch for ignition systems. No. 132,518; June 22; v. 275; p. 822.

Scull, William S., Company, Camden, N. J. Rice. No. 132,048; June 8; v. 275; p. 416.

Scull, William S., Company, Camden, N. J. Tea and rice. No. 132,802; June 29; v. 275; p. 1019.

Seamans & Cobb Co., Boston, Mass. Shoe-cloth. No. 132,519; June 22; v. 275; p. 822.

Secrest, Ida L., Chanute, Kans. Hair-tonic. No. 132,803; June 29; v. 275; p. 1019.

Seidler-Miner Company, Detroit, Mich. Electric lighting and wiring fixtures. No. 132,241; June 15; v. 275; p. 620.

Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis. Inkstands and inkwells. No. 132,242; June 15; v. 275; p. 620.

Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis. Sanitary moisteners for gummed surfaces. No. 132,520; June 22; v. 275; p. 823.

Sentanel Remedies Company, The, Wilmington, Del., and Cincinnati, Ohio. Medicine for certain named ailments. No. 132,521; June 22; v. 275; p. 823.

Sharp & Dohme, Baltimore, Md. Urinary antiseptic capsules. No. 132,522; June 22; v. 275; p. 823.

Sharp & Dohme, Baltimore, Md. Antiseptic tablets. No. 132,523; June 22; v. 275; p. 823.

Shaw, Alex. D., & Co., New York, N. Y. Soap. No. 132,243; June 15; v. 275; p. 620.

Shaw, Theodore L., Boston, Mass. Sound-records. No. 132,804; June 29; v. 275; p. 1019.

Sheffield, John W., Binghamton, N. Y. Medicinal tablets for colds, chills, and fever, &c. No. 132,805; June 29; v. 275; p. 1019.

Sherwin-Williams Co., The, Cleveland, Ohio. Pine-oil disinfectant. No. 132,806; June 29; v. 275; p. 1019.

Shoemaker & Busch, Philadelphia, Pa. Insecticides. No. 132,524; June 22; v. 275; p. 823.

Shoninger, B., Co., New Haven, Conn. Pianos. No. 132,807; June 29; v. 275; p. 1019.

Siff Bros. Co., New York, N. Y. Men's and boys' suits, overcoats, coats, vests, and trousers. No. 132,525; June 22; v. 275; p. 823.

Silverman, Herman, Los Angeles, Calif. Blood-purifier. No. 132,526; June 22; v. 275; p. 823.

Simeon & Elting, New York, N. Y. Wash-blue. No. 132,527; June 22; v. 275; p. 823.

Simmons Hardware Company, St. Louis, Mo. Cutlery and machinery. No. 132,246; June 15; v. 275; p. 620.

Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 132,245; June 15; v. 275; p. 620.

Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 132,528; June 22; v. 275; p. 823.

Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton piece goods, cotton dress goods, cotton and silk dress goods, &c. No. 132,247; June 15; v. 275; p. 620.

Sims, Annie, Pittsburgh, Pa. Salve for treatment of the scalp. No. 132,808; June 29; v. 275; p. 1019.

Sinclair Refining Company, Chicago, Ill. Oils made from petroleum, both with or without admixture of other oils. No. 132,248; June 15; v. 275; p. 620.

Sipe Conditioner M'f'g Co., Kansas City, Mo. Medicine for the upbuilding of the bone, blood, and tissues of live stock. No. 132,529; June 22; v. 275; p. 823.

Sizer Forge Company, Buffalo, N. Y. Steel forgings. No. 132,530; June 22; v. 275; p. 823.

Skillkrafters Incorporated, Dover, Del., and Philadelphia, Pa. Writing-paper and mailing-envelops. No. 132,249; June 15; v. 275; p. 620.

Skuffer, E. C., Shoe Co., St. Joseph, Mo. Shoes. No. 132,531; June 22; v. 275; p. 823.

Slogo Coal Company, Marion, Ill. Coal. No. 132,049; June 8; v. 275; p. 416.

Smith, Archie R., St. Louis, Mo. Hair-tonic, dandruff-eradicator, and complexion-cream. No. 132,532; June 22; v. 275; p. 823.

Smith & Clark Company, Wilkes-Barre and Scranton, Pa. Ice-creams. No. 132,809; June 29; v. 275; p. 1019.

Smith & Clark Company, Wilkes-Barre and Scranton, Pa. Instantaneous cocoa in powdered form. No. 132,810; June 29; v. 275; p. 1019.

Smith & Egge Manufacturing Co., Bridgeport, Conn. Force-feed lubricators. No. 132,533; June 22; v. 275; p. 823.

Smith, John R., Los Angeles, Calif. Dry composition for the treatment of influenza. No. 132,811; June 29; v. 275; p. 1019.

Smith & Nichols, New York, N. Y., and Boston, Mass. Paraffin-wax, ozocerite, ceresin, mountain wax, &c. No. 132,812; June 29; v. 275; p. 1019.

Smythe, William B., Lynn, Mass. Cleaning-paste, &c. No. 132,050; June 8; v. 275; p. 416.

Snyder, J. H., Med. Co., Jonesboro, Ark. Compound for disorders of the stomach, liver, and bowels. No. 132,534; June 22; v. 275; p. 823.

Società Industrie Chimiche Ittiolo, Naples, Italy. Chemical preparations containing formaldehyde, &c. No. 132,813; June 29; v. 275; p. 1019.

Sodemann Heat & Power Co., St. Louis, Mo. House-heating-radiator shields. No. 132,814; June 29; v. 275; p. 1019.

Sohn, Charles P., Towson, Md. Medicated capsules for headache. No. 132,535; June 22; v. 275; p. 823.

Sonard Green Lubricant Company, Washington, D. C. Lubricating-oil. No. 132,536; June 22; v. 275; p. 823.

Sonora Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, gramophones, &c. No. 132,815; June 29; v. 275; p. 1019.

Southern California Products Company, Orange, Calif. Orange table-syrup. No. 132,537; June 22; v. 275; p. 823.

Southern Chemical Products Co., Baltimore, Md. Germicide deodorizing and disinfectant dentifrice preparation. No. 132,538; June 22; v. 275; p. 823.

Southern Oil Corporation, Kansas City, Mo. Gasolene. No. 132,816; June 29; v. 275; p. 1019.

Special Chemicals Company, Highland Park, Ill. Sal-ammoniac and soldering fluid. No. 132,539; June 22; v. 275; p. 823.

Sperry Gyroscope Company, The, Brooklyn, N. Y. Electric shears or scissors. No. 132,540; June 22; v. 275; p. 823.

Spicer, Charles R., Memphis, Tenn. Liquid tonic and antiseptic powder. No. 132,541; June 22; v. 275; p. 823.

Spirocide Corporation, New York, N. Y. Antiseptics. No. 132,577; June 22; v. 275; p. 824.

Standard Bottling and Extract Co., Boston, Mass. Non-alcoholic beverages and syrups for making the same. No. 132,250; June 15; v. 275; p. 620.

Standard Kid Mfg. Co., Boston, Mass. Finished skins. No. 132,251; June 15; v. 275; p. 620.

Standard Manufactnring Company, Erie, Pa. Trousers. No. 132,542; June 22; v. 275; p. 823.

Standard Oil Company of New York, New York, N. Y. Kerosene, gasolene, naphtha, lubricating oils and greases. No. 132,252; June 15; v. 275; p. 620.

Standard Paint Company, The, Boundbrook, N. J., and New York, N. Y. Composition roofing, wall-board, and building papers. No. 132,051; June 8; v. 275; p. 416.

Standard Varnish Works, New York, N. Y. Paints and painters' material. No. 132,253; June 15; v. 275; p. 620.

Star Binding & Trimming Co., The, New York, N. Y. Glove-binding. No. 132,052; June 8; v. 275; p. 416.

Star Shirt Manufacturing Company, New York, N. Y. Men's negligée shirts and pajamas. No. 132,543; June 22; v. 275; p. 823.

Starr Fruit Products Co., Portland Oreg. Canned fruits. No. 132,817; June 29; v. 275; p. 1019.

Stearns, Frederick, & Co., Detroit, Mich. Toilet soaps. No. 132,053; June 8; v. 275; p. 416.

Stearns-Hollinshead Co., Portland, Oreg. Candies. No. 132,818; June 29; v. 275; p. 1019.

Steiger & Kerr Stove & Foundry Co., San Francisco, Calif. Wood, coal, and combined wood or coal and gas stoves, ranges, and heaters. No. 132,819; June 29; v. 275; p. 1019.

Steinberg, Morris, New York, N. Y. Salad-dressing. No. 132,254; June 15; v. 275; p. 620.

Sterling Lumber Co., Cincinnati, Ohio. Millwork, fiber and gypsum wall-boards, &c. No. 132,054; June 8; v. 275; p. 416.

Stern Brothers & Company, New York, N. Y. Ring and ring-mountings. No. 132,255; June 15; v. 275; p. 620.

Stern Brothers & Company, New York, N. Y. Bead neck-chains, bracelets, and crosses. No. 132,256; June 15; v. 275; p. 620.

Stern Brothers & Company, New York, N. Y. Hatpins, scarf and baby pins. No. 132,257; June 15; v. 275; p. 620.

Stern Brothers & Company, New York, N. Y. Lockets, fobs, pendants, and ear-rings. No. 132,258; June 15; v. 275; p. 620.

Stewart, Francis G., Chicago, Ill. Food-syrup. No. 132,055; June 8; v. 275; p. 416.

Stewart, George W., New York, N. Y. Novelty wind instrument. No. 132,820; June 29; v. 275; p. 1019.

Stocks, Clarence L., Blue Ridge, Ga. Antiseptic germicide and deodorant. No. 132,544; June 22; v. 275; p. 823.

Stollwerck Chocolate Company, The, Stamford, Conn., and New York, N. Y. Cocoa and chocolate. Nos. 132,545–6; June 22; v. 275; p. 823.

Stone, Buford R., Reidsville, N. C. Laxative cold-tablets, cocoanut-oil shampoo, iron-rust and stain remover. No. 132,823; June 29; v. 275; p. 1019.

Stone, F. T., Mildura, Victoria, Australia. Herbaceous mixtures for treating asthma and other human diseases. No. 132,547; June 22; v. 275; p. 823.

Storm King Coal Mining Company. (See Storm King Coal Company.)

Storm King Coal Company, assignor to Storm King Coal Mining Company, Jeff, Ky. Coal. No. 132,822; June 29; v. 275; p. 1019.

Stowe, Charles D., Asheville, N. C. Medicine for treatment of the liver and kidneys. No. 132,548; June 22; v. 275; p. 823.

Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation for nervous exhaustion and functional disorders of women. No. 132,824; June 29; v. 275; p. 1019.

Strathmore Paper Company, West Springfield, Mass. Paper and stationery. Nos. 132,825–7; June 29; v. 275; p. 1019.

Stratigos, E., Cleveland, Ohio. Hat-bleaching compound. No. 132,549; June 22; v. 275; p. 823.

Straus, Louis, Inc., San Francisco, Calif. Boys' suits. No. 132,551; June 22; v. 275; p. 824.

Strauss, Jesse, Chicago, Ill. Polish for cleaning and polishing pianos, furniture, &c. No. 132,550; June 22; v. 275; p. 823.

Sturm, Leo F., New York, N. Y. Clothing—viz., leather coats. No. 132,552; June 22; v. 275; p. 824.

Sullivan, Mary E., Richmond, Va. Dentifrice and antiseptic deodorant. No. 132,828; June 29; v. 275; p. 1020.

Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. No. 132,553; June 22; v. 275; p. 824.

Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap in form of flakes. No. 132,554; June 22; v. 275; p. 824.

Sunbeam Chemical Company, Chicago, Ill. Dyes combined with soap. Nos. 132,555–6; June 22; v. 275; p. 824.

Sunbeam Products Company, Pittsburgh, Pa. Cleaning compounds for oriental rugs, carpets, tapestry, furniture, bathtubs, &c. No. 132,557; June 22; v. 275; p. 824.

Sunnyhome Electric Company, Detroit, Mich. Electrical apparatus, machines, and supplies. No. 132,259; June 15; v. 275; p. 620.

Sunset Silk Mills, New York, N. Y. Silk piece goods. No. 131,945; June 1; v. 275; p. 199.

Swaisland, Charles E., Kitchener, Ontario, Canada. Medicine for the treatment of eczema. No. 132,558; June 22; v. 275; p. 824.

Symonds, Frank P., Salem, Mass. Lubricating-oil. No. 132,829; June 29; v. 275; p. 1020.

Takamine Laboratory Inc., New York, N. Y. Quinin ethyl carbonate. No. 132,830; June 29; v. 275; p. 1020.

Talcum Puff Company, Brooklyn, N. Y. Toilet preparations, talcum powder. No. 132,559; June 22; v. 275; p. 824.

Tanner-Gross, W. P., & Company, Inc, New York, N. Y. Wheat-flour. No. 132,831; June 29; v. 275; p. 1020.

Taylor Coal Company, Chicago, Ill. Bituminous coal. No. 132,832; June 29; v. 275; p. 1020.

Taylor, Mary D., Largo, Fla. Jams, marmalades, and jellies. No. 132,260; June 15; v. 275; p. 620.

Tee-O Mfg. Co., New York, N. Y. Rice wafers. No. 132,833; June 29; v. 275; p. 1020.

Templeton, Kenly & Co., Ltd., Chicago, Ill. Lifting-jacks. No. 132,560; June 22; v. 275; p. 824.

Terry, Herbert, & Sons Ld., Redditch, England. Pocket-clips for fountain-pens and pencils, paper-clips, &c. No. 132,834; June 29; v. 275; p. 1020.

Tete, Jules F., New Orleans, La. Salve for burns, boils, bruises, old sores, and fresh cuts. No. 132,561; June 22; v. 275; p. 824.

Thibodeaux, Joseph N., Houston, Tex. Tooth powders and pastes and mouth-washes. No. 132,562; June 22; v. 275; p. 824.

Thompson, John R., Co., Chicago, Ill. Foods and ingredients of foods. No. 132,835; June 29; v. 275; p. 1020.

Thompson, Mary, Washington, D. C. Hair-tonic. No. 132,563; June 22; v. 275; p. 824.

Thompson Shoe Company, St. Paul, Minn. Boots and shoes made of leather, rubber, and canvas. No. 132,261; June 15; v. 275; p. 620.

Tiffany & Company, New York, N. Y. Watches and clocks. No. 132,262; June 15; v. 275; p. 620.

Tiffin Products, Inc., Long Island City, N. Y. Candies, ice-cream, and pastry. No. 132,056; June 8; v. 275; p. 416.

Tipp Whip Company, The, Tippecanoe City, Ohio. Liquid and paste shampoos. No. 132,836; June 29; v. 275; p. 1020.

Toledo Fuel Company, The, Toledo, Ohio. Fuel-oils. No. 132,264; June 15; v. 275; p. 621.

Tower, A. J., Company, Boston, Mass. Oil hats and caps. No. 132,564; June 22; v. 275; p. 824.

Tower, Russell B., Boston, Mass. Hair-nets. No. 132,837; June 29; v. 275; p. 1020.

Trane Company, The, La Crosse, Wis. Radiator-traps. No. 132,838; June 29; v. 275; p. 1020.

Treisman Bro's & Diversi Co., Concord, N. H. Candies and nuts. No. 132,057; June 8; v. 275; p. 416.

Trenton Potteries Company, Trenton, N. J. Plumbers' supplies of earthenware. No. 132,058; June 8; v. 275; p. 416.

Tripi, F. C., & Co., Inc., Buffalo, N. Y. Teas and coffees. No. 132,565; June 22; v. 275; p. 824.

Tropics Corporation, The, New York, N. Y. Logs for sawmill material. No. 132,839; June 29; v. 275; p. 1020.

Tropics Corporation, The, New York, N. Y. Timber and lumber, dressed and undressed. No. 132,840; June 29; v. 275; p. 1020.

Trotter, Joseph W., Birmingham, Ala. Gasolene. No. 132,265; June 15; v. 275; p. 621.

Turner & Harrison Pen Mfg. Co., Inc., The, Philadelphia, Pa. Steel pen-points. No. 132,841; June 29; v. 275; p. 1020.

Ubiko Milling Company, The, St. Bernard, Ohio. Dairy ration. No. 132,059; June 8; v. 275; p. 416.

Ulmer Leather Company, The, Norwich, Conn. Leather, finished and partly finished. No. 132,060; June 8; v. 275; p. 416.

Union City Manufacturing Co., Union City, Tenn. Waterproof goods. No. 132,566; June 22; v. 275; p. 824.

Union Joe Overalls Co., Inc., New Orleans, La. Overalls. No. 132,567; June 22; v. 275; p. 824.

United Canneries Company of California, Oakland, Calif. Canned peaches and apricots. No. 132,842; June 29; v. 275; p. 1020.

United Drug Company, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 132,568; June 22; v. 275; p. 824.

United Phonograph Corporation, Omaha, Nebr. Phonographs. No. 132,843; June 29; v. 275; p. 1020.

United States Cartridge Company, Lowell, Mass. Radiators for internal-combustion engines. Nos. 132,061–2; June 8; v. 275; p. 416.

U. S. Emergency Ration Corp., Belleville, N. J. Concentrated food comprising a combination of any form of bread and chocolate. No. 132,844; June 29; v. 275; p. 1020.

U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol for use as cleanser or detergent or similar solvent. No. 132,063; June 8; v. 275; p. 416.

Universal Paint Remover and Motor Cleaning Company, Dallas, Tex. Compound for removing paint, varnish, and enamel from surfaces. No. 132,267; June 15; v. 275; p. 621.

Upson Nut Company, The, Cleveland, Ohio. Nuts, bolts, screws, and rivets. No. 132,569; June 22; v. 275; p. 824.

Utilities Chemical Company, Detroit, Mich. Cleaning compounds for general use. No. 132,268; June 15; v. 275; p. 621.

Valmas Drug Company, Inc., Rochester, N. Y. Eye-wash. No. 132,847; June 29; v. 275; p. 1020.

Vancouver Drug Company Limited, Vancouver, British Columbia, Canada. Preparations for the relief of la grippe. No. 132,570; June 22; v. 275; p. 824.

Van De Myer, Frank V., New York, N. Y. Diaphragms for sound-boxes used on talking-machines. No. 132,845; June 29; v. 275; p. 1020.

Van Horn, Blaine, Philadelphia, Pa. Instruments for producing comical imitative sounds. No. 132,846; June 29; v. 275; p. 1020.

Vee Bee Chocolate Co., New York, N. Y. Chocolate. Nos. 132,849–50; June 29; v. 275; p. 1020.

Venus Chocolate Company, The, Sidney and Lockport, Ohio. Candy. No. 132,064; June 8; v. 275; p. 416.

Victor Rubber Company, Springfield, Ohio. Outer casings and inner tubes for pneumatic automobile-tires. No. 132,075; June 8; v. 275; p. 417.

Vivaudou, V., Inc., New York, N. Y. Deodorants. No. 132,571; June 22; v. 275; p. 824.

Von Bremen, Asche & Co., New York, N. Y. Canned fish, particularly herring and sardines. No. 132,851; June 29; v. 275; p. 1020.

Von Holt, George F., Woodhaven, N. Y. Mayonnaise. No. 132,852; June 29; v. 275; p. 1020.

Wabash Valley Packing Co., Mount Carmel, Ill. Canned vegetables. No. 132,065; June 8; v. 275; p. 416.

Wackrow, Joseph M., Portland, Oreg. Medicine against lumbago, kidney trouble, and rheumatism. No. 132,572; June 22; v. 275; p. 824.

Wahl, Manfred, Philadelphia, Pa. Culture or ferment for the production of cereal beverages. No. 132,573; June 22; v. 275; p. 824.

Wakefield, Clarence E., Worcester, Mass. Wrenches. No. 132,574; June 22; v. 275; p. 824.

Waldes & Co., Prague, Bohemia. Notions. No. 132,576; June 22; v. 275; p. 824.

Waldes & Co., Prague, Bohemia. Placket, glove, and snap fasteners, buttons and clasps. No. 132,853; June 29; v. 275; p. 1020.

Waldes & Co., Prague, Bohemia. Notions. No. 132,854; June 29; v. 275; p. 1020.

Walker Hosiery Mills Co., Burlington, N. C. Hosiery. No. 132,269; June 15; v. 275; p. 621.

Walker-Matteson Company, Joliet, Ill. Foods and ingredients of foods. No. 132,578; June 22; v. 275; p. 824.

Walker-Matteson Company, Joliet, Ill. Foods and ingredients of foods. No. 132,855; June 29; v. 275; p. 1020.

Walker Yarn Company, Boston, Mass. Worsted fingering-yarn. No. 132,066; June 8; v. 275; p. 416.

Walsh, Thomas A., Yonkers, N. Y. Bacterial culture of bacillus bulgaricus. No. 132,519; June 22; v. 275; p. 824.

Waltham Shirt Co., New York, N. Y. Dress, negligée, and work shirts. No. 132,580; June 22; v. 275; p. 824.

Wanamaker, John, New York, N. Y. Corsets, corsettes, corsetettes, and brassières. No. 132,581; June 22; v. 275; p. 824.

Waples-Platter Grocer Company, Denison, Tex. Certain named foods. No. 132,067; June 8; v. 275; p. 416.

Ward, Dallis T., Chicago, Ill. Hair and scalp tonic. No. 132,856; June 29; v. 275; p. 1020.

Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 132,270; June 15; v. 275; p. 621.

Warren Brothers Company, Boston, Mass. Pavements and paving material containing bituminous matter. No. 132,068; June 8; v. 275; p. 416.

Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. No. 132,857; June 29; v. 275; p. 1020.

Waterproofings Manufacturing Co., The, Scranton, Pa. Auto-top dye and dressing. No. 135,582; June 22; v. 275; p. 825.

Webb, B. Lucas, Columbia, S. C. Wax and stain floor-finish. No. 132,583; June 22; v. 275; p. 825.

Weber, Charles E., Roaring Spring, Pa. Nerve and bone liniment for certain named ailments. No. 132,584; June 22; v. 275; p. 825.

Weber, Jules, Inc., New York, N. Y. Oils of cotton-seed. No. 132,858; June 29; v. 275; p. 1020.

Weinberg & Bisbing, New York, N. Y. Umbrellas. No. 132,271; June 15; v. 275; p. 621.

Weinberg & Weinberg, New York, N. Y. Dress, negligée, and work shirts, and knit and athletic underwear for men. No. 132,272; June 15; v. 275; p. 621.

Weiser Air-Storage Co., Weiser, Wash. Fresh apples. No. 131,946; June 1; v. 275; p. 199.

Wells-Lamont Manufacturing Company, Minneapolis, Minn. Fabric and leather-faced fabric and leather gloves. No. 132,273; June 15; v. 275; p. 621.

Wertheimer, N., & Sons., Ligonier, Ind. Field-seeds. No. 132,859; June 29; v. 275; p. 1020.

Western Chemical Company, Los Angeles, Calif. Detergent and scouring powder. No. 132,069; June 8; v. 275; p. 416.

Western Feed Manufacturers, Inc., Chicago, Ill. Horse feed. No. 132,860; June 29; v. 275; p. 1020.

Western Feed Manufacturers, Inc., Chicago, Ill. Scratch feed. Nos. 132,861–2; June 29; v. 275; pp.1020–1.

Westfield Manufacturing Company, Westfield, Mass. Bicycles. No. 132,070; June 8; v. 275; p. 416.

Weyerhaeuser Forest Products, St. Paul, Minn. Unfinished lumber, timber, and logs. No. 132,863; June 29; v. 275; p. 1021.

White, David G., Boston, Mass. Practice telegraph-keys. No. 132,585; June 22; v. 275; p. 825.

White, James F., & Co., New York, N. Y. Textile cotton, union, and all-linen goods in the piece. No. 132,274; June 15; v. 275; p. 621.

White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 132,275; June 15; v. 275; p. 621.

Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 132,276; June 15; v. 275; p. 621.

Whiting Paper Company, Holyoke, Mass. Fine writing-paper. No. 132,586; June 22; v. 275; p. 825.

Whittemore Brothers Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. No. 132,277; June 15; v. 275; p. 621.

Wiesner, L., New York, N. Y. Leather and fabric shoes. No. 132,587; June 22; v. 275; p. 825.

Wight Company, Lamoni, Iowa. Concentrated tonic for increasing the production and fertility of eggs. No. 132,864; June 29; v. 275; p. 1021.

Wild, Thomas J., Chicago, Ill. Non-alcoholic concentrated malt and hop extract. No. 132,278; June 15; v. 275; p. 621.

Wilder & Company, Chicago, Ill. Sole-leather. No. 132,865; June 29; v. 275; p. 1021.

Wilder, John W., assignor to Delicine Products Company, Chicago, Ill. Lotions for rough, chapped, sun and wind burned skin, cold-creams, ointments, and dentifrices. No. 132,588; June 22; v. 275; p. 825.

Wildroot Co., Inc., Buffalo, N. Y. Toilet water. No. 132,866; June 29; v. 275; p. 1021.

Wile, E. J., & Co., New York, N. Y. Misses' and children's cloaks and suits. No. 132,589; June 22; v. 275; p. 825.

Wile, Julius, Sons & Co., New York, N. Y. Foods and ingredients of foods. No. 132,590; June 22; v. 275; p. 825.

Will Corporation, The, Rochester, N. Y. Methyl alcohol. No. 132,591; June 22; v. 275; p. 825.

Will Corporation, The, Rochester, N. Y. Cellulose compound used in preparing collodion embedding-tissues for microscopic and biological specimens. No. 134,592; June 22; v. 275; p. 825.

Williams, David E., Charleston, S. C. Sheet-music and music publications. No. 132,594; June 22; v. 275; p. 825.

Williams, William, Saginaw, Mich. Package-candies. No. 132,595; June 22; v. 275; p. 825.

Winfield, S. S., New York, N. Y. Hair-tonic. No. 132,596; June 22; v. 275; p. 825.

Wingate, Ollie, Atlanta, Ga. Pile remedy. No. 132,597; June 22; v. 275; p. 825.

Wolf & Bird, San Francisco, Calif. Foods. No. 132,867; June 29; v. 275; p. 1021.

Wolff, Moritz M., Boston, Mass. Medicinal oil liniment useful in allaying pain. No. 132,598; June 22; v. 275; p. 825.

Workman Packing Company, San Francisco, Calif. Macaroni sauce. No. 132,071; June 8; v. 275; p. 416.

Worumbo Manufacturing Company, Lisbon Falls, Me. Woolen overcoating goods in the piece. No. 132,072; June 8; v. 275; p. 417.

Wurm, Herman C., New York, N. Y. Preparation for la grippe, colds, and muscular pains. No. 132,599; June 22; v. 275; p. 825.

Yocum, John H., Newark, N. J. Leather-dressing. No. 132,073; June 8; v. 275; p. 417.

York Manufacturing Company, York, Pa. Refrigerating and ice making systems and parts thereof. No. 131,947; June 1; v. 274; p. 199.

Zarheum Chemical Co., New York, N. Y. Ointment and preparation for rheumatism, &c., tablets, and steam-bath powder. No. 132,600; June 22; v. 275; p. 825.

Zellerbach Paper Company, San Francisco, Calif. Printing-paper, writing and wrapping paper, strawboards, &c. No. 132,868; June 29; v. 275; p. 1021.

Zieschang, Paul C., Columbus, Ohio. Medicine for the nerves and digestive system. No. 132,869; June 29; v. 275; p. 1021.

Zin Mfg. Company, Kansas City, Mo. Insecticides. No. 132,870; June 29; v. 275; p. 1021.

Zirkle, Charles T., Portland, Oreg. Malt-syrup. No. 132,601; June 22; v. 275; p. 825.

Zoes, Christ A., Chicago, Ill. Cleaner for white glacé kid-leather. No. 132,074; June 8; v. 275; p. 417.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Atmore & Son, Inc., Philadelphia, Pa. "Atmore's Make-A-Cake." (For a Preparation for Making Cake.) No. 21,876; June 29; v. 275; p. 1022.

Ballard & Ballard Co., Louisville, Ky. "Ballard Buckwheat." (For Buckwheat.) No. 21,877; June 29; v. 275; p. 1022.

Ballard & Ballard Co., Louisville, Ky. "Ballard Pancake." (For Flour.) No. 21,878; June 29; v. 275; p. 1022.

Ballard & Ballard Co., Louisville, Ky. "Ballard Biscuit Flour." (For Flour.) No. 21,879; June 29; v. 275; p. 1022.

Bushong, H. L., Washington, D. C. "The Famous Shenandoah Valley Brand." (For Pork Sausage.) No. 21,874; June 22; v. 275; p. 826.

Cargill, J. Ralston, Americus, Ga. "Rainbow Georgia Cane." (For Syrup.) No. 21,880; June 29; v. 275; p. 1022.

Co-Operative Food Products Association, Seattle, Wash. "Co-Operative Evaporated Milk." (For Evaporated Milk.) No. 21,881; June 29; v. 275; p. 1022.

Crenshaw Bros. Produce Co. Inc., Tampa, Fla. "Crenshaw's Superior." (For Butter.) No. 21,882; June 29; v. 275; p. 1022.

Faultless Rubber Company, The, Ashland, Ohio. "Faultless Balloons." (For Toy Rubber Balloons.) Nos. 21,883–4; June 29; v. 275; p. 1022.

Franklin Baker Company, The, Philadelphia, Pa. "Baker's Toasted Coco-Nutlets." (For Packaged Cocoanut.) No. 21,885; June 29; v. 275; p. 1022.

General Fruit & Syrup Co., Baltimore, Md. "GenCo Cola." (For a Non-Alcoholic Beverage.) No. 21,875; June 22; v. 275; p. 826.

Loockerman, Charles A., Crisfield, Md. "Savory." (For Canned Tomatoes.) No. 21,886; June 29; v. 275; p. 1022.

Marrow, Isidore L., New York, N. Y. "Harvard Men's Finest Underwear." (For Men's Underwear.) No. 21,887; June 29; v. 275; p. 1022.

Marrow, Isidore L., New York, N. Y. "Harvard Boys' Finest Underwear." (For Boys' Underwear.) No. 21,888; June 29; v. 275; p. 1022.

Mitchell, John H., Baltimore, Md. "Carb-Out Carbon Remover." (For Lubricating-Solvent and Carbon-Remover.) No. 21,889; June 29; v. 275; p. 1022.

Miracle Company, Chicago, Ill. "Miracle." (For Beverages.) No. 21,890; June 29; v. 275; p. 1022.

Nelson, Olaf A., San Francisco, Calif. "Nelson's. (For Canned Fruit.) No. 21,891; June 29; v. 275; p. 1022.

Placentia Mutual Orange Association, Placentia, Calif. "Marvel." (For Oranges.) No. 21,892; June 29; v. 275; p. 1022.

Poehlman, J., & Sons, Baltimore, Md. "The Butter that Betters the Bread." (For Butter.) No. 21,893; June 29; v. 275; p. 1022.

Royal Lemon Products Co., St. Paul, Minn. "Royal Lemon." (For a Cleaner.) No. 21,894; June 29; v. 275; p. 1022.

Schuler Chocolate Factory, Winona, Minn. "Sugarloaf." (For Candy.) No. 21,895; June 29; v. 275; p. 1022.

Southern Food Products Co., Cincinnati, Ohio. "Roxana Belle Non Alcoholic Imitation Scuppernong-Wine." (For Roxana Belle Imitation Scuppernong-Wine.) No. 21,896; June 29; v. 275; p. 1022.

Utah Condensed Milk Co., San Francisco, Calif. "Richmond." (For Evaporated Milk, Unsweetened.) No. 21,897; June 29; v. 275; p. 1022.

Walker-Matteson Company, Joliet, Ill. "Armory Brand." (For Various Items of Dried Products—Namely, Apricots, Peaches, Prunes, and Plums.) No. 21,898; June 29; v. 275; p. 1022.

Ward Baking Compauy, New York, N. Y. "Ward's De Luxe Cakes." (For Cakes.) No. 21,899; June 29; v. 275; p. 1022.

West, Augustus A., Philadelphia, Pa. "The Vanity Hair Net." (For Hair-Nets.) No. 21,900; June 29; v. 275; p. 1022.

West, Augustus A., Philadelphia, Pa. "Chevonet Hair Net." (For Hair-Nets.) No. 21,901; June 29; v. 275; p. 1022.

West, Augustus A., Philadelphia, Pa. "West Gold Seal Hair Net." (For Hair-Nets.) No. 21,902; June 29; v. 275; p. 1022.

Windholz, Charles A., Syracuse, N. Y. "Pargo Brand Sweet Corn." (For Cans Containing Sweet Corn.) No. 21,873; June 8; v. 275; p. 418.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Farnum, James L., Columbus, Ohio. "Laxatolds." (For Laxative Cathartic.) No. 5,259; June 29; v. 275; p. 1022.

Palmolive Company, The, Milwaukee, Wis. "How Washing Your Face Makes Rouge and Powder Harmless." (For Soap.) No. 5,260; June 29; v. 275; p. 1022.

Palmolive Company, The, Milwaukee, Wis. "Tell Me the Truth." (For Soap.) No. 5,261; June 29; v. 275; p. 1022.

Reo Motor Car Co., Lansing, Mich. "Speed Wagon." (For Motor-Trucks.) No. 5,262; June 29; v. 275; p. 1022.

Reo Motor Car Co., Lansing Mich. "'Speed Wagon' An Exclusive Reo Appellation." (For Motor-Trucks.) No. 6,263; June 29; v. 275; p. 1022.

Rubber & Celluloid Products Company, Newark, N. J. "Rubberset." (For Tooth, Lather, and Hair Brushes.) No. 5,264; June 29; v. 275; p. 1022.

Thermoid Rubber Company, Trenton, N. J. "Will Your Car Do This?" (For Brake-Lining.) No. 5,265; June 29; v. 275; p. 1022.

DISCLAIMERS.

Berg, Joseph, Chicago, Ill.; disclaimer filed by assignee, Stewart-Warner Speedometer Corporation. Vehicle-bumper support. No. 1,240,167; v. 275; p. 627.

Nessler, Charles, London, England; disclaimer filed by assignee, Nestle Patent Holding Co., Inc. Apparatus for waving natural hair on the head. No. 1,052,166; v. 275; p. 627.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF JUNE, 1920.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal support. P. Johnson. No. 1,342,914; June 8; v. 275; p. 308.

Account register, Credit-. H. A. Martin. No. 1,341,922; June 1; v. 275; p. 61.

Acid, Making sulfuric. E. L. Larison. No. 1,342,024; June 1; v. 275; p. 81.

Acoustic signaling method. A. Bull. No. 1,342,584; June 8; v. 275; p. 243.

Adding-machine. W. J. Pasinski. No. 1,342,459; June 8; v. 275; p. 218.

Adding machine, Fraction-. C. Ruiz. No. 1,344,190; June 22; v. 275; p. 686.

Addressing mechanism (slug). P. F. Cox. No. 1,344,384; June 22; v. 275; p. 725.

Adjustable gage. L. Rouanet. No. 1,343,479; June 15; v. 275; p. 481.

Adjustable wrench, Quick-. A. Shoopman. No. 1,344,154; June 22; v. 275; p. 679.

Advertising device. G. H. Trulock. No. 1,341,950; June 1; v. 275; p. 66.

Advertising device. L. D. Wheatley. No. 1,344,250; June 22; v. 275; p. 698.

Aeration-cell for flotation apparatus. E. W. Engelmann and W. T. MacDonald. No. 1,344,123; June 22; v. 275; p. 674.

Aeration of sewage and other impure liquids. O. Stott and E. R. Jones. No. 1,343,797; June 15; v. 275; p. 546.

Aerator, Cream and milk. G. W. Kennedy. No. 1,344,902; June 29; v. 275; p. 891.

Aerial bomb. G. E. Cook. No. 1,343,036; June 8; v. 275; p. 332.

Aerial navigation, Instrument for. H. E. Wimperis. No. 1,343,952; June 22; v. 275; p. 641.

Aerial propeller. A. L. Flattum. No. 1,344,496; June 22; v. 275; p. 748.

Aerial torpedo. C. L. Klise. No. 1,343,831; June 15; v. 275; p. 552.

Aerial transporter. H. Coanda. No. 1,344,677; June 29; v. 275; p. 848.

Aero-engine control. S. M. Udale. No. 1,345,037; June 29; v. 275; p. 916.

Aeronautic device. J. Kropacz. No. 1,343,055; June 8; v. 275; p. 336.

Aeronautic landing device. F. M. McDonald. No. 1,342,221; June 1; v. 275; p. 120.

Aeroplane. J. D. Denson. No. 1,341,886; June 1; v. 275; p. 54.

Aeroplane. L. Coletta. No. 1,343,433; June 15; v. 275; p. 473.

Aeroplane. J. Ellard. No. 1,343,498; June 15; v. 275; p. 486.

Aeroplane. H. L. Pierce. No. 1,344,314; June 22; v. 275; p. 711.

Aeroplane-body. H. L. Haskell. No. 1,344,634; June 29; v. 275; p. 840.

Aeroplane-brake. G. L. Davis. No. 1,343,769; June 15; v. 275; p. 540.

Aeroplanes, Junction-piece for connecting together certain structural members of P. J. R. Postel-Vinay. No. 1,345,024; June 29; v. 275; p. 914.

Aeroplane-shell. J. W. Nieukirk. No. 1,344,558; June 22; v. 275; p. 760.

Aeroplane starting and landing platform. I. F. Wielgosz. No. 1,345,335; June 29; v. 275; p. 974.

Aeroplane-wings, Variable-camber rib for. H. F. Parker. No. 1,341,758; June 1; v. 275; p. 29.

Aeroplanes, Combined incidence and side-slip indicator for. O. A. Danielson. No. 1,342,944; June 8; v. 275; p. 314.

Aeroplanes, Starting and landing machine for. J. H. Akin. No. 1,342,145; June 1; v. 275; p. 105.

Agates and similar stones, Machine for cutting. O. C. Reeves. No. 1,342,647; June 8; v. 275; p. 254.

Agricultural implement. W. R. Barker. No. 1,343,896; June 22; v. 275; p. 629.

Agricultural implement. P. P. Fazzari. No. 1,344,494; June 22; v. 275; p. 747.

Agricultural implement. N. Hoynack. No. 1,343,564; June 15; v. 275; p. 499.

Agricultural implement. J. B. Mackey. No. 1,342,125; June 1; v. 275; p. 101.

Agricultural implement. R. B. Mason. No. 1,344,552; June 22; v. 275; p. 758.

Agricultural implement. F. Sherwin. No. 1,341,724; June 1; v. 275; p. 22.

Agricultural machine. R. C. Howser. No. 1,345,189; June 29; v. 275; p. 946.

Agricultural machine, Motor-driven. L. A. Greene. No. 1,343,866; June 15; v. 275; p. 560.

Air-back for stokers. M. Alpern. No. 1,343,702; June 15; v. 275; p. 526.

Air-brake system, double-heading. E. R. Hewitt. No. 1,345,181; June 29; v. 275; p. 944.

Air-cleaning ventilator. A. C. Bennett. No. 1,342,152; June 1; v. 275; p. 106.

Air-compressor. W. C. Hampton. No 1,344,509; June 22; v. 275; p. 750.

Air compressor and regulator. G. F. Wolfe. No. 1,342,487; June 8; v. 275; p. 224.

Air-compressor, Engine-driven. I. Lychyj. No. 1,343,270; June 15; v. 275; p. 441.

Air-hammer attachment. A. Verdesca. No. 1,344,523; June 22; v. 275; p. 753.

Air-heating furnace. F. A. C. Skinner. No. 1,343,752; June 15; v. 275; p. 536.

Air-inlet device. V. H. Van Sant. No. 1,342,193; June 1; v. 275; p. 114.

Air-lift footpiece. A. B. Jennings. No. 1,343,510; June 15; v. 275; p. 488.

Air machine and propeller. W. J. H. Strong. No. 1,344,661; June 29; v. 275; p. 645.

Air-moistener. R. W. Hardie. No. 1,343,718; June 15; v. 275; p. 530.

Air moistening and heating system. R. W. Hardie. No. 1,342,214; June 1; v. 275; p. 118.

Air-motor. O. L. Howe. No. 1,342,811; June 8; v. 275; p. 288.

Air-motor. D. R. Oliver. No. 1,345,022; June 29; v. 275; p. 913.

Air-spring. L. R. Gruss. No. 1,343,560; June 15; v. 275; p. 498.

Air-suction regulator. H. H. Meyer. No. 1,344,921; June 29; v. 275; p. 895.

Aircraft. E. B. Carns. No. 1,343,707; June 15; v. 275; p. 528.

Aircraft. T. O. Perry. No. 1,345,101; June 29; v. 275; p. 928.

Aircraft, Apparatus for facilitating the landing of. W. Mortimer and F. Potten. No. 1,342,860; June 8; v. 275; p. 298.

Aircraft, Construction of. J. J. M. A. E. Schneider. No. 1,342,353; June 1; v. 275; p. 144.

Aircraft-controlling gear. A. V. Roe. No. 1,343,850; June 15; v. 275; p. 556.

Aircraft having inherent stability. J. A. Fleming. No. 1,344,999; June 29; v. 275; p. 909.

Airplane, Artillery-. P. Gerli and O. A. Ross. No. 1,342,802; June 8; v. 275; p. 286.

Airplane-gun-control system, Synchronized. F. Wenner. No. 1,342,729; June 8; v. 275; p. 271.

Airship. C. C. Berry. No. 1,342,428; June 15; v. 275; p. 472.

Airship. G. F. Coffelt. No. 1,344,486; June 22; v. 275; p. 746.

Alarm: *See*—
Burglar-alarm.
Fire-alarm.

Aldehyde from acetylene, Preparation of acetic. A. Guyot. No. 1,343,715; June 15; v. 275; p. 529.

Alkali package. J. Armstrong. No. 1,342,148; June 1; v. 275; p. 105.

Alloy. C. G. Fink. No. 1,342,993; June 8; v. 275; p. 324.

Alloy, Corrosion-resisting ferrous. S. McClure. No. 1,341,992; June 1; v. 275; p. 74.

Alloy, Metal. C. B. Backer. No. 1,341,774; June 1; v. 275; p. 32.

Alloy, Steel. C. M. Johnson. 1,342,911; June 8; v. 275; p. 308.

Altimetric device for use in the production of plans and maps in relief. H. Arnold. No. 1,344,162; June 22; v. 275; p. 681.

Alum, Manufacturing chrome. G. H. Hultman. No. 1,343,725; June 15; v. 275; p. 531.

Aluminium nitrid, Production of. M. Shoeld. No. 1,344,153; June 22; v. 275; p. 679.

Aluminium-solder. F. F. Boisseller. No. 1,344,165; June 22; v. 275; p. 682.
Aluminium-solder. J. Segura. No. 1,344,566; June 22; v. 275; p. 761.
Amalgamator. S. G. Musser. No. 1,342,567; June 8; v. 275; p. 240.
Ammonia-dissolving composition for use in refrigeration apparatus. C. Deloygue. No. 1,345,144; June 29; v. 275; p. 937.
Ammonium perchlorate from sodium perchlorate and ammonium sulfate, Manufacturing. G. C. Given, H. S. McQuaid, and R. A. Long. No. 1,342,956; June 8; v. 275; p. 316.
Ammunition-receptacle. J. S. Peoples. No. 1,343,374; June 15; v. 275; p. 462.
Amusement device. J. Irsch. No. 1,343,083; June 8; v. 275; p. 342.
Amusement device. A. Javelet. No. 1,343,136; June 8; v. 275; p. 352.
Amusement device. G. Nakamura. No. 1,342,223; June 1; v. 275; p. 120.
Anchor-bolt. E. C. Royer and B. J. Boyle. No. 1,344,720; June 29; v. 275; p. 856.
Angle-indicator. M. Luoma. No. 1,342,335; June 1; v. 275; p. 141.
Animal-catcher. J. L. Simantel. No. 1,344,828; June 29; v. 275; p. 877.
Animal-trap. J. Paudols. No. 1,344,712; June 29; v. 275; p. 854.
Annealing-furnace. M. U. Wikstrom. No. 1,343,019; June 8; v. 275; p. 329.
Anticreeper. I. T. Howard. No. 1,343,563; June 15; v. 275; p. 499.
Antifriction draw-bar support. A. C. Davidson. No. 1,342,586; June 8; v. 275; p. 244.
Antirattle-catch. C. J. Hagstrom. No. 1,344,508; June 22; v. 275; p. 750.
Antisubmarine device. P. Petrusavage. No. 1,342,064; June 1; v. 275; p. 88.
Antiskid attachment. W. J. Duvall. No. 1,341,789; June 1; v. 275; p. 35.
Apparel. S. N. Leopard. No. 1,341,716; June 1; v. 275; p. 20.
Arbor-press. H. D. Twombly. No. 1,342,015; June 8; v. 275; p. 328.
Arch construction, Refractory-. A. H. Willett. No. 1,342,931; June 8; v. 275; p. 312.
Ares, Means for extinguishing. E. O. Schweitzer and N. J. Conrad. (Reissue.) No. 14,897; June 22; v. 275; p. 772.
Arsenate, Making magnesium. E. O. Barstow. No. 1,344,018; June 22; v. 275; p. 654.
Article-holder. G. Shively. No. 1,344,728; June 29; v. 275; p. 857.
Ash-sifter. W. F. Goddard. No. 1,344,390; June 22; v. 275; p. 726.
Asphalt or concrete, Apparatus for cutting and breaking. J. Petermann. No. 1,344,560; June 22; v. 275; p. 760.
Auction-sales records, Cover for. S. D. Page. No. 1,345,329; June 29; v. 275; p. 973.
Auditorium-chair. R. G. Trucksess. No. 1,344,216; June 22; v. 275; p. 691.
Auto block-signal. E. Nicholas. No. 1,345,218; June 29; v. 275; p. 951.
Auto-door antirattling device. T. J. Martin. No. 1,344,644; June 29; v. 275; p. 842.
Auto-license-indicating device. H. A. Kleine. No. 1,342,850; June 8; v. 275; p. 296.
Auto pull-out. L. Hammer. No. 1,343,625; June 15; v. 275; p. 511.
Auto-rim. S. Stephens. No. 1,341,942; June 1; v. 275; p. 65.
Auto-signal. J. O'Donnell, Jr. No. 1,342,181; June 1; v. 275; p. 112.
Auto signal-arm. C. Townsend. No. 1,342,007; June 1; v. 275; p. 77.
Auto steering-lock. L. F. Cosby. No. 1,342,276; June 1; v. 275; p. 130.
Automatic brake. A. Swenson. No. 1,342,699; June 8; v. 275; p. 265.
Automatic gate. E. Bach. No. 1,343,023; June 8; v. 275; p. 330.
Automatic machine. J. P. Brophy. No. 1,343,344; June 15; v. 275; p. 455.
Automobile and motor-boat, Combined. E. Sairanen. No. 1,344,317; June 22; v. 275; p. 712.
Automobile-bodies, Apparatus for conveying. J. E. McBride. No. 1,344,419; June 22; v. 275; p. 732.
Automobile-body, Convertible. W. L. Carter. No. 1,343,655; June 15; v. 275; p. 517.
Automobile-body, Convertible. J. J. McGuire. No. 1,344,546; June 22; v. 275; p. 757.
Automobile-buffer. R. T. Newton. No. 1,343,741; June 15; v. 275; p. 534.
Automobile-bumper. F. Kammitter. No. 1,342,290; June 1; v. 275; p. 133.
Automobile-bumper. W. P. Limacher. No. 1,341,917; June 1; v. 275; p. 59.
Automobile-bumper. P. D. Read. No. 1,341,393; June 1; v. 275; p. 151.
Automobile-bumper clamp. L. P. Halladay. No. 1,344,797; June 29; v. 275; p. 872.
Automobile-bumper support. L. P. Halladay. No. 1,344,796; June 29; v. 275; p. 871.
Automobile-bumper support. L. P. Halladay. No. 1,344,799; June 29; v. 275; p. 872.
Automobile-bumpers, Support for. L. P. Halladay. No. 1,344,798; June 29; v. 275; p. 872.
Automobile-control device. E. A. and C. R. Page. No. 1,342,060; June 1; v. 275; p. 88.
Automobile-controlling pedals, Attachment for. J. C. Carmody. No. 1,342,372; June 1; v. 275; p. 148.
Automobile conversion, Device for. H. R. Harrison. No. 1,342,142; June 1; v. 275; p. 104.
Automobile-cranker. A. C. Tennyson. No. 1,343,531; June 15; v. 275; p. 492.
Automobile direction-indicator. C. W. Landers. No. 1,345,199; June 29; v. 275; p. 947.
Automobile direction-indicator. B. Sutton. No. 1,342,529; June 15; v. 275; p. 492.
Automobile door-handle. W. Miller. No. 1,342,058; June 1; v. 275; p. 87.
Automobile, Extensible. J. L. Ware. No. 1,342,139; June 1; v. 275; p. 103.
Automobile floor-board. L. A. Young. No. 1,343,168; June 8; v. 275; p. 358.
Automobile-hood support. Y. Skala. No. 1,344,095; June 22; v. 275; p. 668.
Automobile, Identification attachment for. W. S. Marr. No. 1,343,857; June 15; v. 275; p. 554.
Automobile-identification device. J. R. Green and J. H. Fritz. No. 1,342,627; June 8; v. 275; p. 250.
Automobile-indicator. J. and N. Gerke and E. C. Williams. No. 1,343,261; June 15; v. 275; p. 459.
Automobile-jack. S. Heymann. No. 1,344,036; June 22; v. 275; p. 657.
Automobile-jack. S. Heymann. No. 1,344,037; June 22; v. 275; p. 657.
Automobile-lock. J. H. Bast. No. 1,342,151; June 1; v. 275; p. 106.
Automobile-lock. S. A. Berryhill and I. W. Woolley. No. 1,343,807; June 15; v. 275; p. 547.
Automobile-lock. W. E. James. No. 1,343,870; June 15; v. 275; p. 561.
Automobile-lock. G. C. Jensen. No. 1,342,748; June 8; v. 275; p. 275.
Automobile-lock. H. A. Kendall. No. 1,345,014; June 29; v. 275; p. 912.
Automobile-lock. W. B. Nimmo and C. S. Swain. No. 1,341,925; June 1; v. 275; p. 61.
Automobile-lock. F. L. Wells. No. 1,343,424; June 15; v. 275; p. 471.
Automobile-lock. J. Wenning. No. 1,343,990; June 22; v. 275; p. 648.
Automobile-locking device. J. P. Geraghty. No. 1,343,049; June 8; v. 275; p. 335.
Automobile-pedal lock. C. E. Lacy. No. 1,343,459; June 15; v. 275; p. 478.
Automobile pedal lock. B. Parmenter. No. 1,343,405; June 15; v. 275; p. 467.
Automobile-signal. E. C. Clark. No. 1,343,248; June 15; v. 275; p. 438.
Automobile-signal. J. R. Saurage. No. 1,345,259; June 29; v. 275; p. 959.
Automobile-signal. W. C. Sennett. No. 1,344,152; June 22; v. 275; p. 679.
Automobile signal device. J. Klipper. No. 1,342,049; June 1; v. 275; p. 85.
Automobile-signal device. C. Roth. No. 1,344,355; June 22; v. 275; p. 719.
Automobile starting system. C. B. Mills. No. 1,343,222. June 15; v. 275; p. 433.
Automobile-steering devices, Lock for. J. Blackburn. No. 1,343,192; June 15; v. 275; p. 427.
Automobile steering-rod. C. A. Caldwell. No. 1,343,305; June 15; v. 275; p. 448.
Automobile-tank, Gasolene. M. S. Dickerson. No. 1,343,812; June 15; v. 275; p. 548.
Automobile theft-indicating device. E. S. Grace. No. 1,342,044; June 1; v. 275; p. 85.
Automobile-top. J. Vetter. No. 1,341,687; June 1; v. 275; p. 14.
Automobile-trailer. W. T. Daum. No. 1,343,197; June 15; v. 275; p. 428.
Automobile-ventilator. F. L. Kelzer. No. 1,343,919; June 22; v. 275; p. 635.
Automobiles, Accelerator-pedal for. I. E. Whitney. No. 1,344,466; June 22; v. 275; p. 741.
Automobiles, Air-pump connector for. L. G. King. No. 1,344,539; June 22; v. 275; p. 756.
Automobiles, Article-carrier support for. L. Skilbred. No. 1,344,729; June 29; v. 275; p. 858.
Automobiles, Combined water and air pump for. J. W. B. Ladd and R. E. Rich. No. 1,341,915; June 1; v. 275; p. 59.
Automobiles, Electrical signal system for. H. L. Cornell. No. 1,341,735; June 1; v. 275; p. 24.
Automobiles from mudholes, Device for extracting. E. J. Kaczmarek. No. 1,342,749; June 8; v. 275; p. 275.
Automobiles, Gasolene-reservoir for. R. C. Isphording and G. H. Schultz. No. 1,343,173; June 8; v. 275; p. 359.
Automobiles, Lock for steering-posts of. C. R. Welch. No. 1,342,728; June 8; v. 275; p. 271.
Automobiles, Oil-indicator for crank-cases of. J. W. Harrison. No. 1,345,005; June 29; v. 275; p. 910.
Automobiles, Package-carrier for. E. McCoy. No. 1,342,557; June 8; v. 275; p. 238.
Automobile sanding device. A. P. Welse. No. 1,342,316; June 1; v. 275; p. 137.

Automobile-seat extension. T. F. Snyder. No. 1,342,235; June 1; v. 275; p. 123.
Automobiles, Traction and antiskidding device for. J. Belanger. No. 1,344,853; June 29; v. 275; p. 882.
Automobiles, Windshield for. T. B. Nisbet. (Reissue.) No. 14,872; June 1; v. 275; p. 156.
Average-speed meter. C. F. Eaton, Jr. No. 1,343,198; June 15; v. 275; p. 428.
Awning. W. H. McOmber. No. 1,342,452; June 8; v. 275; p. 217.
Ax sheath or carrying case. A. Rosenquist. No. 1,342,395; June 1; v. 275; p. 152.
Axle adjustment, Crank-. O. E. Kopplin. No. 1,343,268; June 15; v. 275; p. 441.
Axle brace, Front-. J. Spohr. No. 1,342,514; June 8; v. 275; p. 229.
Axle construction. A. M. Laycock. No. 1,342,634; June 8; v. 275; p. 252.
Axle, Differential. J. M. Aubery. No. 1,344,933; June 29; v. 275; p. 897.
Axle, Vehicle-. A. W. Russel. No. 1,344,150; June 22; v. 275; p. 679.
Baby-walker. J. J. Webber. No. 1,342,518; June 8; v. 275; p. 230.
Baffle-plate. E. T. Perry. No. 1,343,376; June 15; v. 275; p. 462.
Bag: *See*—
Water-bag.
Bag-holder. F. M. Neff and W. B. Runner. No. 1,342,348; June 1; v. 275; p. 143.
Bail-end-forming machine. W. J. Kenny. No. 1,343,267; June 15; v. 275; p. 441.
Bails to container-bodies, Device for attaching. W. J. Kenny. No. 1,343,920; June 22; v. 275; p. 635.
Bait, Artificial. G. Halder. No. 1,345,173; June 29; v. 275; p. 943.
Bake-pan, Composite. W. M. Aikman. No. 1,343,991; June 22; v. 275; p. 648.
Balances, Multiple-weight attachment for precision-. W. Heusser. No. 1,345,180; June 29; v. 275; p. 944.
Balancing device. J. Wilson. No. 1,344,193; June 22; v. 275; p. 687.
Baling. E. H. Angier. No. 1,344,785; June 29; v. 275; p. 869.
Baling-machines, Length-indicator for. R. M. Mowry. No. 1,342,391; June 1; v. 275; p. 151.
Ball-lapping machine. R. W. Sellew. No. 1,343,011; June 8; v. 275; p. 328.
Ball-throwing and exercising device. C. H. Reynolds. No. 1,345,241; June 29; v. 275; p. 955.
Balls, Method of and means for beating. A. G. E. Hultgren. No. 1,342,171; June 1; v. 275; p. 110.
Ballast-surfacer. P. Ursino. No. 1,343,533; June 15; v. 275; p. 493.
Band-stretcher. V. Ragona. No. 1,343,336; June 15; v. 275; p. 454.
Bandage, Catumenial. F. G. Higgins. No. 1,342,588; June 8; v. 275; p. 244.
Banjo. G. F. Puntolillo. No. 1,345,104; June 29; v. 275; p. 929.
Banjo-support. H. M. Cox. No. 1,342,202; June 1; v. 275; p. 116.
Bar: *See*—
Draft-bar.
Furnace-bar.
Furnace floor-bar.
Jack-bar.
Barge, Coaling-. F. A. Sweet and G. G. Jamieson. No. 1,344,459; June 22; v. 275; p. 740.
Bark, Defiberizing redwood-. U. S. McMillan. No. 1,344,180; June 22; v. 275; p. 685.
Barrel-head, Removable. J. C. Streibich. No. 1,344,098; June 22; v. 275; p. 669.
Barrel, wine, and lard press. G. L. Squire. No. 1,344,156; June 22; v. 275; p. 680.
Barrels, Bung for metal. A. Schroeder. No. 1,344,457; June 22; v. 275; p. 740.
Barrette attachment. R. W. Thayer. No. 1,343,239; June 15; v. 275; p. 436.
Bars, Making curved flanged. R. S. Smith. No. 1,343,647; June 15; v. 275; p. 515.
Baseball-game apparatus. J. D. Bourne. No. 1,341,628; June 1; v. 275; p. 3.
Basin-plug wrench. M. Mallove. No. 1,342,025; June 1; v. 275; p. 81.
Bath attachment, Shower-. S. Bagnulo. No. 1,343,892; June 22; v. 275; p. 629.
Batteries, Apparatus for making wood separators for storage. W. J. Rehrig. No. 1,324,925; June 8; v. 275; p. 310.
Batteries, Cover for storage. W. Gardiner. No. 1,342,954; June 8; v. 275; p. 316.
Batteries, Means for charging storage. C. E. Ogden. No. 1,344,812; June 29; v. 275; p. 874.
Batteries, Separator for storage. R. N. Chamberlain. No. 1,343,708; June 15; v. 275; p. 528.
Batteries, Terminal-seal for storage. M. Shank. No. 1,342,511; June 8; v. 275; p. 228.
Battery: *See*—
Electric battery.
Battery-charging systems, Relay for storage-. J. M. Wilson. No. 1,344,970; June 29; v. 275; p. 903.
Battery container, Storage-. J. M. Ahlgren. No. 1,341,871; June 1; v. 275; p. 51.
Battery construction, Storage-. W. Gardiner. No. 1,342,952; June 8; v. 275; p. 316.
Battery-grid. F. R. Bickhart. No. 1,343,957; June 22; v. 275; p. 642.
Battery grids, Machine for casting strips to storage-. E. Disinger. No. 1,344,294; June 22; v. 275; p. 707.
Battery-jar. J. C. Peabody. No. 1,344,771; June 29; v. 275; p. 866.
Battery-jar and making same, Hard-rubber. H. Weida. No. 1,343,380; June 15; v. 275; p. 463.
Battery materials, Purification of. O. E. Ruhoff. No. 1,343,585; June 15; v. 275; p. 503.
Battery-plate. O. P. Hoffman. No. 1,341,713; June 1; v. 275; p. 19.
Battery-plates, Active material for. W. Gardiner and W. H. Duggan. No. 1,342,953; June 8; v. 275; p. 316.
Battery separator and producing same, Storage-. T. A. Willard. No. 1,342,611; June 8; v. 275; p. 247.
Bayonet and wire-cutter, Combination. J. Hmirak. No. 1,342,382; June 1; v. 275; p. 149.
Beading-machine. O. H. Jensen. No. 1,344,405; June 22; v. 275; p. 729.
Beans for canning, Preparing green. E. J. Vaudreuil. No. 1,344,069; June 22; v. 275; p. 664.
Bearing. F. V. Johnson. No. 1,342,541; June 8; v. 275; p. 234.
Bearing. L. H. Vervoort. No. 1,344,524; June 22; v. 275; p. 753.
Bearing and making same, Roller-. A. H. Jones. No. 1,343,885; June 15; v. 275; p. 563.
Bearing, Antifriction-. T. Jacobson. No. 1,343,321; June 15; v. 275; p. 457.
Bearing counter, Ball-. R. B. Austin. No. 1,342,733; June 8; v. 275; p. 272.
Bearing element and manufacturing same. R. J. Shoemaker. No. 1,341,938; June 1; v. 275; p. 64.
Bearing, Double-acting thrust ball-. N. A. Palmgren. No. 1,342,756; June 8; v. 275; p. 276.
Bearing, Horizontal-thrust. A. Kingsbury. (Reissue.) No. 14,878; June 8; v. 275; p. 363.
Bearing, Roller-. O. G. Arnot. No. 1,341,873; June 1; v. 275; p. 51.
Bearing, Roller-. E. Norlund. No. 1,344,276; June 22; v. 275; p. 704.
Bearing, Side. C. E. Dath. No. 1,342,101; June 1; v. 275; p. 96.
Bearing, Thrust-. H. A. S. Howarth. No. 1,342,384; June 1; v. 275; p. 150.
Bearing, Wheel-. C. M. Feist. No. 1,344,495; June 22; v. 275; p. 747.
Bearings, Attachment for. J. A. Anderson. No. 1,342,319; June 1; v. 275; p. 138.
Bed, Adjustable. J. Rust. No. 1,343,985; June 22; v. 275; p. 647.
Bed, Adjustable. J. R. Stark. No. 1,343,593; June 15; v. 275; p. 504.
Bed attachment. A. Schoonmaker. No. 1,342,354; June 1; v. 275; p. 144.
Bed, Chair-. W. F. Eschenbrenner. No. 1,343,044; June 8; v. 275; p. 334.
Bed, dresser, and washstand, Folding. O. B. Block. No. 1,344,257; June 22; v. 275; p. 699.
Bed, Folding. N. B. Douglass. No. 1,344,995; June 29; v. 275; p. 908.
Bed, Folding. G. R. McAllaster. No. 1,344,450; June 22; v. 275; p. 738.
Bed, Folding. C. O. Pelletier. No. 1,344,188; June 22; v. 275; p. 686.
Bed-lock, Pressed-steel metal. H. Dierker. No. 1,344,583; June 22; v. 275; p. 765.
Bed-plates to sole-plates, Securing. L. D. Lovekin. No. 1,344,416; June 22; v. 275; p. 731.
Bed, Settling-. G. W. Otterson. No. 1,344,710; June 29; v. 275; p. 854.
Bed, Spring-. J. H. Hower. No. 1,341,714; June 1; v. 275; p. 19.
Bed-spring. H. E. Powell. No. 1,345,235; June 29; v. 275; p. 954.
Bed, Spring-. H. M. Jackson. No. 1,344,636; June 29; v. 275; p. 840.
Bedspread. I. Christensen. No. 1,343,881; June 15; v. 275; p. 563.
Beehive. F. and S. Pelc. No. 1,344,817; June 29; v. 275; p. 875.
Beer, Manufacture of alcohol-reduced. H. Heuser. (Reissue.) No. 14,889; June 22; v. 275; p. 771.
Beet-topper. A. H. Ballard. No. 1,344,849; June 29; v. 275; p. 881.
Beet-topping machine. W. L. and F. L. Johnston. No. 1,341,909; June 1; v. 275; p. 58.
Beet-topping machine. M. A. Smith. No. 1,344,966; June 29; v. 275; p. 902.
Belt-cutter. R. Buckingham. No. 1,344,169; June 22; v. 275; p. 682.
Belt-fastening hooks, Method and machine for forming ganged. B. Garlius and F. W. Knott. No. 1,342,712; June 8; v. 275; p. 267.
Belt key-holder. A. A. Lutz. No. 1,341,811; June 1; v. 275; p. 39.
Belt-making process. C. C. Gates. (Reissue.) No. 14,875; June 8; v. 275; p. 362.
Belt, Power-transmitting. A. J. Beich. No. 1,344,475; June 22; v. 275; p. 743.
Belt-stretcher. W. L. Cherry. No. 1,344,485; June 22; v. 275; p. 745.

Belt, Tractor-. A. R. Blewett. No. 1,343,958; June 22; v. 275; p. 642.
Belting. J. D. Coughlin. No. 1,341,973; June 1; v. 275; p. 71.
Bench, Collapsible. I. Danyluk. No. 1,343,810; June 15; v. 275; p. 548.
Bending-machines, Gear-clutch for. P. B. Wallace and F. H. Fox. No. 1,342,363; June 1; v. 275; p. 146.
Bevel, and level, Combination protractor. F. J. Goodie. No. 1,344,269; June 22; v. 275; p. 702.
Beverage, Dealcoholized fermented. J. Schneible. No. 1,343,587; June 15; v. 275; p. 503.
Beverage-mixer. S. C. Sherman. No. 1,345,263; June 29; v. 275; p. 960.
Bicycle. J. Crear. No. 1,343,616; June 15; v. 275; p. 509.
Bicycle. W. H. and J. R. Millward; No. 1,342,688; June 8; v. 275; p. 263.
Bicycle-lock. J. H. van Viersen. No. 1,343,856; June 15; v. 275; p. 558.
Bicycle spring-fork. M. F. Hardnett. No. 1,343,820; June 15; v. 275; p. 550.
Bicycle-stand. A. Hantsch. No. 1,344,226; June 22; v. 275; p. 693.
Billiard-cue lock. A. C. Tyson. No. 1,342,517; June 8; v. 275; p. 229.
Binder attachment, Corn-. A. H. Meilicke. No. 1,342,640; June 8; v. 275; p. 253.
Binder extension, Loose-leaf-. L. E. Allison. No. 1,344,971; June 29; v. 275; p. 903.
Binder, Loose-leaf. C. L. Baldauf. No. 1,344,934; June 29; v. 275; p. 897.
Binder, Loose-leaf. J. Schade. No. 1,342,766; June 8; v. 275; p. 279.
Binder, Loose-leaf. F. Sutherland. No. 1,342,833; June 8; v. 275; p. 292.
Binding appliance. E. Pollard. No. 1,344,959; June 29; v. 275; p. 901.
Bit: *See*—
Drill-bit.
Blackboard. T. Mellor. No. 1,344,920; June 29; v. 275; p. 894.
Blind, Spring-roller. H. E. Fox. No. 1,342,017; June 1; v. 275; p. 79.
Blind, Venetian. J. Cahill. No. 1,342,527; June 8; v. 275; p. 231.
Block: *See*—
Building and paving block. Paving-block.
Furnace rail-block.
Block-making machine. G. C. Cable. No. 1,344,860; June 29; v. 275; p. 883.
Block-resurfacing mechanism. R. C. Simmons. No. 1,341,765; June 1; v. 275; p. 30.
Blotting appliance. J. H. Hedberg. No. 1,345,087; June 29; v. 275; p. 926.
Blotting-pad or blotter. F. N. Crowell. No. 1,344,335; June 22; v. 275; p. 715.
Blowpipe-tips, Making. R. F. Russell. No. 1,344,964; June 29; v. 275; p. 902.
Board: *See*—
Automobile floor-board. Game-board.
Compound board. Plaster-board.
Duplex board.
Boarding-machine. C. A. Rausch. No. 1,342,760; June 8; v. 275; p. 277.
Boat, Traction-. J. B. MacDonald. No. 1,345,326; June 29; v. 275; p. 972.
Bobbin and spindle connector. C. Nordell. No. 1,343,839; June 15; v. 275; p. 554.
Body-rubbing device. D. E. Riley. No. 1,345,026; June 29; v. 275; p. 914.
Body-stabilizer. C. Munter. No. 1,342,566; June 8; v. 275; p. 239.
Boiler: *See*—
Gas-heated boiler. Water-tube boiler.
Steam-boiler.
Boiler. W. W. Gillette. No. 1,342,672; June 8; v. 275; p. 259.
Boiler attachment. J. Smoter. No. 1,344,829; June 29; v. 275; p. 878.
Boiler-cleaner. L. Beebee and F. Bowers. No. 1,343,654; June 15; v. 275; p. 517.
Boilers, Washout-plug for. F. Crist. No. 1,342,740; June 8; v. 275; p. 273.
Boll-weevil moths, Device for destroying. D. D. Dailey. No. 1,341,706; June 1; v. 275; p. 18.
Bolt: *See*—
Anchor-bolt. Expansion-bolt.
Clamp-bolt. Panic-bolt.
Door-bolt.
Bolting-up device. C. Evensen. No. 1,343,667; June 15; v. 275; p. 519.
Bolts, Making. J. B. Heller. No. 1,343,720; June 15; v. 275; p. 530.
Bomb. J. H. Clary. No. 1,345,130; June 29; v. 275; p. 934.
Bomb-dropping mechanism. E. V. Stoddard. No. 1,345,276; June 29; v. 275; p. 963.
Bomb-thrower. T. E. Spencer. No. 1,342,357; June 1; v. 275; p. 145.
Bomb-throwing machine. W. Butler. No. 1,344,378; June 22; v. 275; p. 724.
Bone-holding device. M. Thelmer. No. 1,342,515; June 8; v. 275; p. 229.
Book, Account-. A. Heisterkamp. No. 1,343,082; June 8; v. 275; p. 341.
Book holder, Copy-. P. Stoelzel. No. 1,343,527; June 15; v. 275; p. 491.
Book or pad. S. E. Brick. No. 1,341,782; June 1; v. 275; p. 34.
Book, Loose-leaf. E. A. P. Wolf. No. 1,343,103; June 8; v. 275; p. 346.
Book or sheet-music opener. M. A. Reilly. No. 1,345,336; June 29; v. 275; p. 974.
Bookcase. J. F. Arnold. No. 1,342,083; June 1; v. 275; p. 92.
Boot or shoe sole. J. E. Grosjean. No. 1,344,504; June 22; v. 275; p. 749.
Boot or shoe sole. H. L. Haskell. No. 1,343,450; June 15; v. 275; p. 476.
Booth, counter, and the like, Composite. G. R. Meyercord. No. 1,343,637; June 15; v. 275; p. 513.
Boots or shoes, Manufacturing composite soles for. J. E. Grosjean. No. 1,344,503; June 22; v. 275; p. 749.
Boring-bar cutters, Adjusting means for. W. E. Kelly. No. 1,342,447; June 8; v. 275; p. 246.
Bottle attachment, Ink-. C. A. Burdick. No. 1,343,960; June 22; v. 275; p. 642.
Bottle attachment, Nursing-. L. D. Clark. No. 1,343,113; June 8; v. 275; p. 348.
Bottle-cap remover. A. L. Higgins. No. 1,345,182; June 29; v. 275; p. 944.
Bottle-carrier, Individual. G. C. Pearson. No. 1,342,568; June 8; v. 275; p. 240.
Bottle-handling mechanism. E. E. Winkley. No. 1,344,013; June 22; v. 275; p. 653.
Bottle-holder. M. J. Hyland. No. 1,342,747; June 8; v. 275; p. 274.
Bottle, Milk-. C. R. Chenery. No. 1,342,013; June 1; v. 275; p. 78.
Bottle, Non-refillable. E. Ibarra y Suris. No. 1,345,279; June 29; v. 275; p. 963.
Bottle, Nursing-. W. E. Goddard. No. 1,344,760; June 29; v. 275; p. 864.
Bottle safety-lock. J. Byrne. No. 1,343,962; June 22; v. 275; p. 642.
Bottle-stopper. G. Wolferman. No. 1,342,657; June 8; v. 275; p. 256.
Bottles, Attachment for thermos-. C. H. Wilson and C. G. Lee. No. 1,342,883; June 8; v. 275; p. 302.
Bottles, Drinking attachment for. E. L. Stewart. No. 1,341,826; June 1; v. 275; p. 42.
Bottles or other vessels to machines intended for treating them, Device for feeding. A. A. Rosengren. No. 1,344,653; June 29; v. 275; p. 843.
Bottles, Sanitary closure for. C. W. Borgner. No. 1,343,760; June 15; v. 275; p. 538.
Bow-tie grip. A. Graske. No. 1,343,623; June 15; v. 275; p. 510.
Bowl, Watering-. W. A. Andrew. No. 1,345,113; June 29; v. 275; p. 931.
Bowls, Opening means for centrifugal. M. Leitch. No. 1,343,325; June 15; v. 275; p. 452.
Box: *See*—
Feed-box. Rail-joint box.
Journal-box. Safety panel-box.
Mail-box. Shipping-box.
Match-box. Shoe-polish box.
Phonograph sound-box. Sputum-box.
Powder-box.
Box-blank machine, Wire-bound-. W. P. Healy. No. 1,343,561; June 15; v. 275; p. 498.
Box-covering blank. W. Buswell. No. 1,343,193; June 15; v. 275; p. 428.
Box-covering machine. J. D. Reifsnyder and W. A. Weightman. No. 1,343,748; June 15; v. 275; p. 536.
Box-making machine. M. B. Diskin. No. 1,343,906; June 22; v. 275; p. 632.
Box members, Fastening device for hinged. C. C. Armstrong. No. 1,344,846; June 29; v. 275; p. 881.
Box-opener. J. Heiligenstein. No. 1,343,627; June 15; v. 275; p. 511.
Boxes, Combination-dies for punching, creasing, and finishing the heads of solid-end paper. H. B. Walter. No. 1,342,239; June 1; v. 275; p. 123.
Brace: *See*—
Drilling-brace. Vehicle-frame frame.
Brace or knee. H. B. Gaffers. No. 1,343,445; June 15; v. 275; p. 475.
Bracelet. H. Wachenheimer. No. 1,344,365; June 22; v. 275; p. 721.
Bracket: *See*—
Bumper-bracket. Lamp-bracket.
Curtain-rod bracket. Shade and curtain-pole bracket.
Cuspidor-bracket.
Furniture-bracket.
Bracket. J. H. Wright. No. 1,342,659; June 8; v. 275; p. 256.
Braiding machines, Apparatus for holding the thread tense in circular-. G. Horn. No. 1,343,452; June 15; v. 275; p. 476.
Braiding-machines, Rubber-core-tensioning mechanism for. F. W. Plumb. No. 1,342,646; June 8; v. 275; p. 254.
Brake: *See*—
Aeroplane-brake. Phonograph-brake.
Automatic brake. Safety-brake.
Fluid-pressure brake. Wagon-brake.
Hand-brake.

Brake. S. Giacoletto. No. 1,345,165; June 29; v. 275; p. 941.
Brake. C. H. Satterlee. No. 1,342,352; June 1; v. 275; p. 144.
Brake. R. Schmitz. No. 1,344,598; June 22; v. 275; p. 768.
Brake-lining. F. J. Gleason. No. 1,342,043; June 1; v. 275; p. 84.
Brake mechanism. G. S. Ackley. No. 1,341,830; June 1; v. 275; p. 43.
Brake mechanism. B. G. Kramer. No. 1,344,003; June 22; v. 275; p. 651.
Brake mechanism. W. H. Sauvage. No. 1,342,599; June 8; v. 275; p. 246.
Brake-pin. F. Schaefer. No. 1,344,596; June 22; v. 275; p. 767.
Brake-valve handle, Reversible. W. V. Turner. No. 1,343,695; June 15; v. 275; p. 525.
Bread cutter and carrier. J. F. Bertini. No. 1,345,118; June 29; v. 275; p. 932.
Bread-knife. S. F. Horvath. No. 1,342,383; June 1; v. 275; p. 150.
Bread-making apparatus. W. F. L. Fisch. No. 1,345,079; June 29; v. 275; p. 924.
Breast-drill. P. J. Le Sueur. No. 1,343,370; June 15; v. 275; p. 461.
Brick, Blown-glass vacuum-. A. E. D'Harlingue. No. 1,342,404; June 1; v. 275; p. 154.
Brick-machine. H. H. Goe. No. 1,344,880; June 29; v. 275; p. 887.
Bricks, Apparatus for making. H. W. B. Graham. No. 1,341,798; June 1; v. 275; p. 37.
Brickmaking-machine. D. J. Strickland. No. 1,344,278; June 22; v. 275; p. 704.
Brickmaking machine, Automatic. D. J. Strickland. No. 1,344,099; June 22; v. 275; p. 669.
Bridge-reinforcement. A. G. Needs. No. 1,344,646; June 29; v. 275; p. 842.
Bridle. J. C. Jardine, and J. Dickie. No. 1,341,715; June 1; v. 275; p. 20.
Brines, Separating potassium compound from. H. W. Morse. No. 1,343,401; June 15; v. 275; p. 467.
Brines, Separation of constituents of. H. W. Morse. No. 1,343,400; June 15; v. 275; p. 466.
Broiler, Electric. W. S. Hadaway, Jr. No. 1,345,004; June 29; v. 275; p. 910.
Bromates, Manufacture of. C. W. Jones. No. 1,343,918; June 22; v. 275; p. 635.
Broom-corn machines, Conveying mechanism for. G. E. Rudolph. No. 1,344,006; June 22; v. 275; p. 651.
Broom-corn-sizing machines, Scraping attachment for. W. M. Christopher. No. 1,344,332; June 22; v. 275; p. 715.
Broom, Reinforced. S. Yamamoto. No. 1,344,784; June 29; v. 275; p. 869.
Brush, Combination fountain-. M. Zaboy. No. 1,342,492; June 8; v. 275; p. 225.
Brush, Dusting-. J. Wooldridge. No. 1,344,843; June 29; v. 275; p. 880.
Brush-holder. M. Afranel. No. 1,343,381; June 15; v. 275; p. 463.
Brush, Reversible. W. F. Kuck. No. 1,345,198; June 29; v. 275; p. 947.
Brush, Shaving-. T. McMonagle. No. 1,344,050; June 22; v. 275; p. 660.
Brush, Shoe shining or polishing. G. A. Reitzel. No. 1,342,971; June 8; v. 275; p. 319.
Brushes, Mounting for dynamo-. H. E. Borger. No. 1,342,583; June 8; v. 275; p. 243.
Bubble-blower. C. U. Tyrrell. No. 1,344,104; June 22; v. 275; p. 670.
Buck, Motor-. O. M. Crays. No. 1,344,385; June 22; v. 275; p. 725.
Bucket, Clam-shell. H. Le Gear. No. 1,342,996; June 8; v. 275; p. 325.
Bucket, Excavating-. W. M. Venable. No. 1,344,969; June 29; v. 275; p. 903.
Bucket, Sanitary non-spillable milk-. P. W. Pick. No. 1,342,569; June 8; v. 275; p. 240.
Bucket, Well-. C. D. Behan. No. 1,342,414; June 8; v. 275; p. 209.
Buckle. H. N. Roden. No. 1,344,652; June 29; v. 275; p. 843.
Buckle, Belt-. R. C. Kadow. No. 1,341,648; June 1; v. 275; p. 7.
Buckle, Belt-. W. J. Morse. No. 1,344,955; June 29; v. 275; p. 901.
Buckrake and stacker. A. M. MacKersie. No. 1,343,398; June 15; v. 275; p. 466.
Buggy-body. F. Tucker. No. 1,343,068; June 8; v. 275; p. 339.
Building. E. G. Perrot. No. 1,342,062; June 1; v. 275; p. 88.
Building and paving block. H. S. Wheeler. (Reissue.) No. 14,904; June 29; v. 275; p. 976.
Building construction. E. P. Garner. No. 1,345,164; June 29; v. 275; p. 941.
Building construction. J. E. Jennings. No. 1,342,021; June 1; v. 275; p. 80.
Building construction, Trussed. J. O. Madison. No. 1,344,767; June 29; v. 275; p. 866.
Building constructions, Sound-insulating devices for. H. B. Wheeler. No. 1,342,610; June 8; v. 275; p. 247.
Building-protector. R. Kirchner. No. 1,344,540; June 22; v. 275; p. 756.
Bumper. R. T. Newton. No. 1,343,740; June 15; v. 275; p. 534.
Bumper. P. Riedele. No. 1,345,106; June 29; v. 275; p. 929.
Bumper attachment. W. G. Pancoast and W. J. Grotenhuis. No. 1,344,649; June 29; v. 275; p. 843.
Bumper-bracket. G. F. Discher. No. 1,342,374; June 1; v. 275; p. 148.
Bundle or package tying machine. A. Bluege. No. 1,342,981; June 8; v. 275; p. 321.
Bunsen-burner. C. M. Johnson. No. 1,342,912; June 8; v. 275; p. 308.
Burglar-alarm. O. Jacobson. No. 1,344,178; June 22; v. 275; p. 684.
Burglar-alarm. A. A. Terstyansky. No. 1,342,104; June 1; v. 275; p. 96.
Burner: *See*—
Bunsen burner. Liquid-fuel burner.
Gas-burner. Oil-burner.
Hydrocarbon-burner. Portable burner.
Burner. J. G. Placette. No. 1,342,226; June 1; v. 275; p. 121.
Bushing-forming machine. O. W. McKnight. No. 1,342,053; June 1; v. 275; p. 86.
Bushing-remover. H. D. Lindenmuth. No. 1,342,852; June 8; v. 275; p. 296.
Butter, Machine for making. J. A. Shearer. No. 1,342,091; June 8; v. 275; p. 343.
Button. C. W. G. Allender. No. 1,341,771; June 1; v. 275; p. 32.
Button. R. W. Fox. No. 1,343,080; June 8; v. 275; p. 341.
Button and necktie-slide, Collar-. A. J. Edwards. No. 1,342,102; June 1; v. 275; p. 96.
Button-carding machine. A. L. Currier. No. 1,344,679; June 29; v. 275; p. 849.
Button-clasp. E. B. Fink. No. 1,342,161; June 1; v. 275; p. 108.
Button, Collar-. C. Stern. No. 1,342,003; June 1; v. 275; p. 76.
Button, dress-fastener, and the like, Spring-. F. Hawkins. No. 1,343,506; June 15; v. 275; p. 487.
Button machine, Pearl-. P. F. Dusha and A. Feyk. No. 1,343,042; June 8; v. 275; p. 333.
Button, Soft-collar. J. E. Speyer. No. 1,343,096; June 8; v. 275; p. 344.
By-products, particularly nitrogen compounds, from blast-furnaces, Obtaining. W. Ostwald. No. 1,344,770; June 29; v. 275; p. 866.
Cabinet. C. B. Landis. No. 1,342,851; June 8; v. 275; p. 296.
Cabinet. O. A. Nelson. No. 1,341,994; June 1; v. 275; p. 74.
Cabinet, Bath-. D. L. Thompson. No. 1,342,474; June 8; v. 275; p. 221.
Cabinet, Cooking-. G. W. Wiesehan. No. 1,343,539; June 15; v. 275; p. 494.
Cabinet, Dispensing-. W. J. Jandron. No. 1,343,974; June 22; v. 275; p. 645.
Cabinet-drawers, Extension-slide for. C. Lenhart. No. 1,343,513; June 15; v. 275; p. 488.
Cabinet, Heat-resisting. R. H. Dick and C. F. Wolters. No. 1,342,204; June 1; v. 275; p. 116.
Cabinet, Laying-. J. F. Ellis. No. 1,342,434; June 8; v. 275; p. 214.
Cabinet-locking device. F. H. Hoberg. No. 1,342,961; June 8; v. 275; p. 317.
Cabinet or casing, Sewing-machine. A. E. Lee and E. G. Milsted. No. 1,342,820; June 8; v. 275; p. 290.
Cabinet, Pan-closet. G. E. Kinch. No. 1,343,830; June 15; v. 275; p. 552.
Cabinet, Phonograph table-. P. Kraushaar. No. 1,343,622; June 15; v. 275; p. 510.
Cabinet, Towel-. E. J. Shaughnessy. No. 1,345,262; June 29; v. 275; p. 960.
Cabinets, Corner connection for. H. J. Gwyer. No. 1,343,209; June 15; v. 275; p. 430.
Cable carrying or supporting means, Electric. A. H. Lessells. No. 1,344,514; June 22; v. 275; p. 751.
Cable or monorail tramway and vehicle for same. S. A. Rogers. No. 1,342,926; June 8; v. 275; p. 311.
Cable-splice. J. F. Dillon. No. 1,343,251; June 15; v. 275; p. 438.
Cable-tracks, Support for elevated. J. F. Montine. No. 1,344,923; June 29; v. 275; p. 895.
Cake-cutting machine. J. T. Shillito. No. 1,342,875; June 8; v. 275; p. 301.
Calculating-machine. A. Pentecost. No. 1,342,969; June 8; v. 275; p. 319.
Calculating-machine. M. Teetor. No. 1,344,191; June 22; v. 275; p. 687.
Calculator. A. B. Christopher. No. 1,343,660; June 15; v. 275; p. 518.
Calculator. H. A. Wrenn. No. 1,341,962; June 1; v. 275; p. 68.
Calendar. W. W. White. No. 1,343,601; June 15; v. 275; p. 506.
Calendar, Perpetual. S. G. Edwards. No. 1,345,150; June 29; v. 275; p. 938.
Caliper. T. B. Powers. No. 1,345,236; June 29; v. 275; p. 954.
Camera. C. M. March and C. L. Tidd. No. 1,341,718; June 1; v. 275; p. 20.

Camera. A. J. Miller. No. 1,344,182; June 22; v. 275; p. 685.
Camera. E. W. Tucker. No. 1,345,288; June 29; v. 275; p. 965.
Camera, Copying-. A. F. Jobke. No. 1,344,896; June 29; v. 275; p. 890.
Camera, Copying or enlarging. J. Becker. No. 1,342,735; June 8; v. 275; p. 272.
Camera, Copying or enlarging. J. Becker. No. 1,343,889; June 15; v. 275; p. 564.
Camera, Photographic. J. Becker. No. 1,343,888; June 15; v. 275; p. 564.
Camera timing attachment. P. Chillimidos. No. 1,344,440; June 22; v. 275; p. 736.
Cameras, Autographic attachment for. M. B. Boyce. No. 1,342,153; June 1; v. 275; p. 106.
Cameras, Collapsible lensless finder for folding. A. D. Northrup. No. 1,345,224; June 29; v. 275; p. 952.
Cameras, Feeding and measuring device for rolls of sensitized strips employed in photographic. L. Miles. No. 1,344,207; June 22; v. 275; p. 690.
Cameras, Plate-holder for photographic. J. Goddard. No. 1,343,773; June 15; v. 275; p. 541.
Camisole. L. Platt. No. 1,343,004; June 22; v. 275; p. 651.
Can; *See*—
Nozzle-can.
Can cap and seal. J. W. Kerr. No. 1,343,782; June 15; v. 275; p. 542.
Can closure, Dispensing-. J. H. Howard. No. 1,343,825; June 15; v. 275; p. 551.
Can-end-lining machine. C. W. Graham. No. 1,343,913; June 22; v. 275; p. 654.
Can ends and apparatus therefor, Manufacturing gasket-lined. C. W. Graham. No. 1,343,914; June 22; v. 275; p. 634.
Can-filling machines, Feeder for. C. E. Steere. No. 1,343,417; June 15; v. 275; p. 470.
Can selecting and weighing apparatus. G. J. Koehl. No. 1,343,458; June 15; v. 275; p. 478.
Can-spout. H. H. Shaw. No. 1,342,299; June 1; v. 275; p. 134.
Can-tester. W. J. Phelps. No. 1,344,315; June 22; v. 275; p. 751.
Can-washer. G. C. Wiltsie. No. 1,342,485; June 8; v. 275; p. 223.
Cans, Means for attaching direction-sheets to. L. A. Wolters. No. 1,343,953; June 22; v. 275; p. 641.
Cans, Reversible pouring-spout for. M. M. Marcuse. No. 1,342,639; June 8; v. 275; p. 252.
Cans, Slip-cover for. H. L. Strongson. No. 1,343,099; June 8; v. 275; p. 345.
Candle-finishing machines, Holsting apparatus for. E. J. Engman. No. 1,344,445; June 22; v. 275; p. 737.
Candle-holder. E. J. Engman. No. 1,344,446; June 22; v. 275; p. 738.
Candy-making machine. L. E. Dykeman; No. 1,343,120; June 8; v. 275; p. 349.
Cannery-tables, Operator's seat for. W. H. Gavin. No. 1,344,940; June 29; v. 275; p. 898.
Canning and cooking devices, Steam-generator for. J. W. Williams. No. 1,344,326; June 22; v. 275; p. 713.
Cap, Bottle-. F. V. Phillips. No. 1,344,516; June 22; v. 275; p. 751.
Car. W. F. Batho. No. 1,342,085; June 1; v. 275; p. 93.
Car. A. Campbell. No. 1,342,089; June 1; v. 275; p. 93.
Car. A. Campbell. No. 1,342,095; June 1; v. 275; p. 93.
Car and unicycle and coupling means therefor, Combination railway-. S. N. Stewart. No. 1,342,137; June 1; v. 275; p. 103.
Car-axle journals, Journal-box and lubricator for. L. Y. Williams. No. 1,344,667; June 29; v. 275; p. 846.
Car-brake mechanism. W. Hartill-Law. No. 1,344,129; June 22; v. 275; p. 675.
Car, Convertible railway-. R. E. Walker. No. 1,344,322; June 22; v. 275; p. 713.
Car, Convertible railway-. R. E. Walker. No. 1,344,323; June 22; v. 275; p. 713.
Car-coupling. H. E. Van Dorn. No. 1,344,780; June 29; v. 275; p. 868.
Car-couplings, Wear-plate for. J. H. Milliken. No. 1,344,183; June 22; v. 275; p. 685.
Car-couplings, Wear-plate for. J. H. Milliken. No. 1,344,184; June 22; v. 275; p. 685.
Car-couplings, Wear-plate for. J. H. Milliken. No. 1,344,185; June 22; v. 275; p. 685.
Car-door. W. H. McGann. No. 1,343,925; June 22; v. 275; p. 636.
Car-door hanger. P. Schneider. No. 1,344,454; June 22; v. 275; p. 739.
Car-door lock. J. Edman. No. 1,344,444; June 22; v. 275; p. 737.
Car-door lock. P. Schneider. No. 1,342,465; June 8; v. 275; p. 219.
Car-door-operating machine. A. Campbell. No. 1,342,093; June 1; v. 275; p. 94.
Car, Dump-. F. S. Ingoldsby. No. 1,344,403; June 22; v. 275; p. 729.
Car-fender. O. G. Jones. No. 1,343,729; June 15; v. 275; p. 531.
Car-fender. H. Schurr. No. 1,344,213; June 22; v. 275; p. 691.
Car, Freight-. J. Oravec. No. 1,344,243; June 22; v. 275; p. 697.
Car, Grain-. A. Campbell. No. 1,342,094; June 1; v. 275; p. 94.
Car-hopper, Sanitary. N. Krohn. No. 1,343,730; June 15; v. 275; p. 532.
Car-mover. G. L. Bonham. No. 1,343,430; June 15; v. 275; p. 472.
Car or sleigh, Logging. A. Gendreau. No. 1,343,772; June 15; v. 275; p. 540.
Car-roof. W. P. Murphy. No. 1,343,785; June 15; v. 275; p. 543.
Car-roof. W. P. Murphy. No. 1,343,786; June 15; v. 275; p. 543.
Car-roof. T. N. Russell. No. 1,342,510; June 8; v. 275; p. 228.
Car-roof. T. N. Russell. No. 1,344,824; June 29; v. 275; p. 877.
Car-seal. W. K. Edgar. No. 1,344,491; June 22; v. 275; p. 747.
Car-seat. R. F. Stubblebine. No. 1,343,594; June 15; v. 275; p. 505.
Car, Sleeping-. H. D. Wilson. No. 1,342,702; June 8; v. 275; p. 265.
Car-underframing. W. M. Ryan. No. 1,345,258; June 29, v. 275; p. 959.
Car-unloader. J. G. Brown. No. 1,345,121; June 29; v. 275; p. 932.
Car-wheel. F. A. Sweet. No. 1,344,460; June 22; v. 275; p. 740.
Car-wheel skid-shoe. B. J. Buell. No. 1,343,614; June 15; v. 275; p. 509.
Cars, Air-circulating apparatus for. C. A. Moore. No. 1,344,057; June 22; v. 275; p. 661.
Cars, Automatic transfer for dump-. W. J. Black. (Reissue.) No. 14,901; June 29; v. 275; p. 975.
Cars, Drop-door for railway-. J. O. Neiklrk. No. 1,344,208; June 22; v. 275; p. 690.
Cars, End construction for railway-. V. E. Sisson. No. 1,342,604; June 8; v. 275; p. 246.
Cars, Means for discharging grain and similar materials from. A. Campbell. No. 1,342,092; June 1; v. 275; p. 94.
Cars, Means for discharging materials from railway-. A. Campbell. No. 1,342,088; June 1; v. 275; p. 93.
Cars, Means for discharging materials from railway-. A. Campbell. No. 1,342,091; June 1; v. 275; p. 94.
Cars, Runner for side. E. Enberg. No. 1,345,321; June 29; v. 275; p. 971.
Cars, Safety attachment for railway-. J. D. King. No. 1,344,231; June 22; v. 275; p. 694.
Cars, Safety attachment for railway-. J. D. King. No. 1,344,232; June 22; v. 275; p. 694.
Cars, Side bearing for. V. J. Burry. No. 1,344,858; June 29; v. 275; p. 883.
Cars, Side bearing for. V. J. Burry. No. 1,344,859; June 29; v. 275; p. 883.
Cars, Switch-operating device for street-railway. C. W. Collens. No. 1,344,487; June 22; v. 275; p. 746.
Cars, Temporary track for mine-. L. M. Foreman. No. 1,342,281; June 1; v. 275; p. 131.
Cars, Water-level-signaling attachment for motor-. H. H. Knapp. No. 1,344,904; June 29; v. 275; p. 892.
Cars, Wind-screen for motorcycle side. C. A. Easting. No. 1,343,440; June 15; v. 275; p. 474.
Cars, Yoke for railway-. H. L. Spence. No. 1,342,696; June 8; v. 275; p. 264.
Cars, Wrecking, poling, wiring, lifting and truck carrying iron for railway-. U. S. Drayer. No. 1,341,787; June 1; v. 275; p. 35.
Carbon-black, Apparatus for producing. F. E. Paterson. No. 1,344,060; June 22; v. 275; p. 662.
Carbon compounds, Hydrogenating. F. Bergius. No. 1,342,790; June 8; v. 275; p. 284.
Carboy-case. W. G. Seabold. No. 1,343,340; June 15; v. 275; p. 455.
Carbureter. V. E. Haas. No. 1,342,107; June 1; v. 275; p. 97.
Carbureter. E. Huber. No. 1,344,696; June 29; v. 275; p. 851.
Carbureter. R. E. L. Janney. No. 1,342,445; June 8; v. 275; p. 216.
Carbureter. R. Jensen. No. 1,343,455; June 15; v. 275; p. 477.
Carbureter. A. J. Pichl. No. 1,343,983; June 22; v. 275; p. 646.
Carbureter. A. Welland. No. 1,345,298; June 29; v. 275; p. 967.
Carbureter and vaporizer. H. Knight. No. 1,344,698; June 29; v. 275; p. 852.
Carbureter attachment. J. Jones. No. 1,343,001; June 22; v. 275; p. 650.
Carbureter control. H. S. McCutchan. No. 1,342,966; June 8; v. 275; p. 318.
Carbureter control. F. Ross. No. 1,341,762; June 1; v. 275; p. 29.
Carbureter-heater. R. C. Burnett. No. 1,344,021; June 22; v. 275; p. 654.
Carbureters, Air-control device for the air-inlets of. H. Cory. No. 1,343,311; June 15; v. 275; p. 449.
Card appliance. H. Maier. No. 1,344,547; June 22; v. 275; p. 757.
Card-clipping machine, Time-. G. W. Odell. No. 1,344,059; June 22; v. 275; p. 662.
Card, Display-. R. T. Stafford. No. 1,343,651; June 15; v. 275; p. 516.

Card-distributing device. U. B. White and M. H. Wetzel. No. 1,341,695; June 1; v. 275; p. 16.
Carpet-cleaner apparatus. M. R. Johnson and O. N. Halverson. No. 1,343,137; June 8; v. 275; p. 352.
Carpet-sweeper. W. A. Fickes. No. 1,344,389; June 22; v. 275; p. 726.
Carpets, Beater for removing dust and dirt from. G. H. Backmire. No. 1,343,895; June 22; v. 275; p. 629.
Carriages and other vehicles, Sleigh-runner attachment for baby-. H. Fleckl and W. J. Boyd. No. 1,343,046; June 8; v. 275; p. 334.
Carriage, Baby-. J. Modrzejeski. No. 1,344,811; June 29; v. 275; p. 874.
Carrier; *See*—
Bottle-carrier.
Bread cutter and carrier.
Egg-carrier.
Shade-carrier.
Surveying-instrument carrier.
Tier.
Tire-carrier.
Woven carrier.
Cart, Barrel-. J. C. Gordon. No. 1,342,437; June 8; v. 275; p. 214.
Carton and blank therefor. R. A. Taylor. No. 1,343,420; June 15; v. 275; p. 470.
Carton, Dispensing and displaying. R. H. Fitz Gerald. No. 1,341,893; June 1; v. 275; p. 55.
Carton opening and feeding mechanism. S. R. Howard. No. 1,342,047; June 1; v. 275; p. 85.
Case; *See*—
Carboy-case.
Signal-carrying case.
Toilet-case.
Vanity-case.
Case-hardening. S. Whyte. No. 1,345,050; June 29; v. 275; p. 919.
Casement-adjuster. C. J. Hagstrom. No. 1,344,507; June 22; v. 275; p. 750.
Casing-head. W. M. Roades. No. 1,343,477; June 15; v. 275; p. 481.
Casing-head top. C. S. Wright. No. 1,343,426; June 15; v. 275; p. 471.
Casket. L. M. Bowman. No. 1,344,674; June 29; v. 275; p. 847.
Casket. L. P. Cook and J. D. Sims. No. 1,342,324; June 1; v. 275; p. 139.
Casket-handle. A. R. Betts and P. J. Goke. No. 1,344,855; June 29; v. 275; p. 882.
Casket-handle. H. W. Hodgetts. No. 1,342,443; June 8; v. 275; p. 215.
Casket handle, Burial-. S. Brent. No. 1,345,314; June 29; v. 275; p. 970.
Casket-panel. D. J. Reynolds. No. 1,343,280; June 15; v. 275; p. 443.
Caster. A. E. Finch. No. 1,342,500; June 8; v. 275; p. 226.
Caster. D. M. Kennedy. No. 1,342,448; June 8; v. 275; p. 216.
Caster. W. H. McAllister. No. 1,344,418; June 22; v. 275; p. 732.
Caster, Adjustable. G. F. Van Meter. No. 1,345,294; June 29; v. 275; p. 966.
Caster, Ball-bearing swivel-. J. L. Chesnutt. No. 1,344,864; June 29; v. 275; p. 884.
Caster, Swivel-. S. W. Chesnutt. No. 1,341,630; June 1; v. 275; p. 3.
Casting. J. L. Ware. No. 1,343,017; June 8; v. 275; p. 329.
Casting apparatus. F. H. Vallender. No. 1,343,016; June 8; v. 275; p. 329.
Casting hollow bars or tubes, Method of and apparatus for. G. Mellen. No. 1,342,127; June 1; v. 275; p. 101.
Casting-machine. R. J. Powell. No. 1,341,670; June 1; v. 275; p. 11.
Casting-machine, Centrifugal. J. B. Ladd. No. 1,344,409; June 22; v. 275; p. 730.
Castings, Pit-flask for. E. Fries. No. 1,345,161; June 29; v. 275; p. 940.
Casting, Preparing molds for. E. Fries. No. 1,345,162; June 29; v. 275; p. 940.
Catalyst and making it. J. C. W. Frazer. No. 1,345,323; June 29; v. 275; p. 972.
Catch device. E. F. M. Speidel. No. 1,343,939; June 22; v. 275; p. 638.
Cattle-guard. H. G. Connell and A. J. Swindall. No. 1,344,262; June 22; v. 275; p. 700.
Cattle-guard. A. Cruickshank. No. 1,342,014; June 1; v. 275; p. 79.
Cattle-guard. J. I. Dominguez. No. 1,345,146; June 29; v. 275; p. 937.
Cattle-guard. E. Hikok and A. H. Hollenbeck. No. 1,344,535; June 22; v. 275; p. 755.
Ceilings, Wall-furring strip for steel. L. J. Graff. No. 1,345,002; June 29; v. 275; p. 909.
Cellulose-acetate composition. P. C. Seel. No. 1,342,603; June 8; v. 275; p. 246.
Cellulose composition and making same, Acetyl-. J. G. Jarvis. No. 1,343,135; June 8; v. 275; p. 352.
Cellulose-ester composition and making same. P. C. Seel. No. 1,342,601; June 8; v. 275; p. 246.
Cellulose factories, Treating waste gases or vapors from soda-. A. E. Nielsen. No. 1,345,220; June 29; v. 275; p. 951.
Cellulose-nitrate composition. P. C. Seel. No. 1,342,602; June 8; v. 275; p. 246.
Cellulose or compounds of cellulose, Manufacturing tubular products of. L. Hesse. No. 1,341,745; June 1; v. 275; p. 26.
Cement-block mold. F. Creason. No. 1,342,373; June 1; v. 275; p. 148.
Cement-block tamper. C. H. Johnson. No. 1,344,230; June 22; v. 275; p. 694.
Cement, Combined. K. L. Torno. No. 1,342,360; June 1; v. 275; p. 146.
Cement stone for building purposes, Light-weight artificial. E. Walter. No. 1,344,324; June 22; v. 275; p. 713
Cementitious structure. D. J. Flynn. No. 1,345,156; June 29; v. 275; p. 939.
Centrifugal drier. G. H. Elmore. No. 1,342,743; June 8; v. 275; p. 273.
Centrifugal-extractor mechanism. W. Bartholomew. No. 1,344,749; June 29; v. 275; p. 862.
Centrifugal machines, Driving electric. E. D. Mackintosh. No. 1,342,405; June 1; v. 275; p. 154.
Chain, Antiskid-. E. Benjestorf. No. 1,344,477; June 22; v. 275; p. 744.
Chain, Antiskid-. F. A. Bower. No. 1,342,086; June 1; v. 275; p. 93.
Chain coupling, Antiskid-. P. Arnolts. No. 1,342,616; June 8; v. 275; p. 248.
Chain tightener, Skid-. C. C. Allen. No. 1,344,472; June 22; v. 275; p. 743.
Chain, Track-. P. E. Holt. No. 1,344,398; June 22; v. 275; p. 727.
Chain tracks, Track-link for. C. F. Ball. No. 1,344,373; June 22; v. 275; p. 723.
Chains, Fastening device for antiskid-. E. A. Tomiln. No. 1,344,778; June 29; v. 275; p. 868.
Chair; *See*—
Auditorium-chair.
Collapsible chair.
Commode-chair.
Folding chair.
Lunch-chair.
Rail-chair.
Screened chair.
Chair. B. T. and H. J. Beckman. No. 1,344,255; June 22; v. 275; p. 699.
Chair-seat. J. P. Holland. No. 1,345,187; June 29; v. 275; p. 945.
Change-speed mechanism. W. T. Sears. No. 1,342,928; June 8; v. 275; p. 311.
Change-speed mechanism. W. T. Walker. No. 1,342,195; June 1; v. 275; p. 115.
Chart, Translating-. M. F. Charrier. No. 1,343,112; June 8; v. 275; p. 347.
Check. D. F. Fesler. No. 1,343,865; June 15; v. 275; p. 560.
Check, Bank-. C. Churchill. No. 1,343,762; June 15; v. 275; p. 538.
Check, Bank-. J. Kopecky. No. 1,344,235; June 22; v. 275; p. 695.
Check-holder. J. T. Olive. No. 1,341,720; June 1; v. 275; p. 21.
Check, order, and commercial letter, Combined advance-discount voucher-. J. H. Camp. No. 1,343,110; June 8; v. 275; p. 347.
Cheese-hoop. R. J. J. Mueller. No. 1,343,402; June 15; v. 275; p. 467.
Chemical-closet. F. B. Shafer. No. 1,343,287; June 15; v. 275; p. 444.
Chilian mill, Multiple-process. C. C. Lane. No. 1,342,917; June 8; v. 275; p. 309.
Chimney. J. L. Freeman. No. 1,342,329; June 1; v. 275; p. 140.
Chimney-cowl, Back-draft-preventing. M. Ciaccia. No. 1,343,763; June 15; v. 275; p. 538.
Chimneys or ventilator-stacks, Draft appliance for. A. Jones. No. 1,345,195; June 29; v. 275; p. 947.
Chimney-heater. F. W. Pendergast. No. 1,343,745; June 15; v. 275; p. 535.
Chisel, Cold-. G. A. Kissinger. No. 1,343,323; June 15; v. 275; p. 451.
Chlorid, Producing anhydrous aluminum. P. Danckwardt. No. 1,343,662; June 15; v. 275; p. 518.
Chuck for holding drills, reamers, and the like. E. M. Smith and A. W. Winsall. No. 1,343,795; June 15; v. 275; p. 545.
Chucks, Adjustable V-block for magnetic. F. L. Simmons. No. 1,343,751; June 15; v. 275; p. 536.
Churn. H. Christensen. No. 1,344,937; June 29; v. 275; p. 898.
Churn, Sanitary. J. T. Campbell. No. 1,344,022; June 22; v. 275; p. 654.
Churning device. R. A. Thompson and L. P. Morris. No. 1,343,532; June 15; v. 275; p. 493.
Chute, Stock-loading. J. R. Raplee. No. 1,345,238; June 29; v. 275; p. 955.
Cigar-bunches, Machine for applying paper molds to. L. R. Gindrat. No. 1,343,125; June 8; v. 275; p. 350.
Cigar holder and saver. J. Skinderviken. No. 1,342,512; June 8; v. 275; p. 29.
Cigar-lighters, Switch for. C. F. Cuno. No. 1,342,015; June 1; v. 275; p. 79.
Cigarette and vanity case, Combined. M. A. Miller. No. 1,342,178; June 1; v. 275; p. 111.
Cigarette-cases, Manufacture of. J. C. Gunn. No. 1,344,506; June 22; v. 275; p. 749.
Cigarette-holder. L. V. Redman, A. J. Welth, and F. P. Brock. No. 1,342,868; June 8; v. 275; p. 299.
Cigarette-papers, Case for holding. J. W. Davis. No. 1,341,974; June 1; v. 275; p. 71.
Cigarette pouch-package. G. W. Hill. No. 1,344,635; June 29; v. 275; p. 840.

Cigarettes and like articles, Box for. H. H. Lewis. No. 1,341,857; June 1; v. 275; p. 48.
Cinematograph-shutter. A. Van Wormer. No. 1,342,076; June 1; v. 275; p. 91.
Circle-spacing device. H. R. Heyman. No. 1,344,587; June 22; v. 275; p. 766.
Circuit-breaker. F. W. Roller. No. 1,341,678; June 1; v. 275; p. 13.
Circuit-breaking apparatus, Overload-. E. O. Schweitzer. (Reissue.) No. 14,881; June 8; v. 275; p. 363.
Circuit-closer, Cam-operated. H. McNicholas. No. 1,342,591; June 8; v. 275; p. 244.
Circuit-closer, Thermal. W. P. Webber. No. 1,343,803; June 15; v. 275; p. 547.
Circuit-closer, Thermal. C. E. Wiren. No. 1,342,317; June 1; v. 275; p. 137.
Circuit-closers, Float-operated. G. W. Washington. No. 1,343,947; June 22; v. 275; p. 640.
Circuit-controlling device, Selectively-operated. J. C. Field. No. 1,343,256; June 15; v. 275; p. 439.
Circuit-interrupter. L. W. Chubb. No. 1,341,631; June 1; v. 275; p. 4.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,306; June 15; v. 275; p. 448.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,307; June 15; v. 275; p. 448.
Circuits, Duplex translating-. J. R. Carson. No. 1,343,308; June 15; v. 275; p. 448.
Clamp: *See*—
Automobile-bumper clamp. Hose-clamp. Miter-frame clamp. Pipe-clamp. Plate-clamp. Printing-plate clamp. Rail-clamp. Rope-clamp. Saw-filing clamp. Warp-clamp. Wire-fence clamp. Wire-line-drilling clamp.
Clamp. G. More. No. 1,342,563; June 8; v. 275; p. 239.
Clamp. A. Waelty. No. 1,342,362; June 1; v. 275; p. 146.
Clamp. W. B. Wigle. No. 1,342,141; June 1; v. 275; p. 104.
Clamp-bolt. E. J. Ruquet, Jr. No. 1,343,089; June 8; v. 275; p. 343.
Clamping machine, Quick-acting frame-. O. Bergstrom. No. 1,342,891; June 8; v. 275; p. 304.
Clarinet-holder. J. E. Smith. No. 1,342,136; June 1; v. 275; p. 103.
Clasp: *See*—
Button-clasp. Collar-clasp. Necktie-clasp.
Clasp. A. Giardino. No. 1,344,500; June 22; v. 275; p. 748.
Clasp. E. L. Gundlach. No. 1,345,171; June 29; v. 275; p. 942.
Clasp. L. B. Hochstein. No. 1,345,183; June 29; v. 275; p. 945.
Clasp. C. G. Hultman and H. Wachenheimer. No. 1,344,048; June 1; v. 275; p. 85.
Clasp. D. L. Passage. No. 1,344,816; June 29; v. 275; p. 875.
Classification of names, &c., Means employed in the. J. P. Woods; No. 1,343,755; June 15; v. 275; p. 537.
Cleaner: *See*—
Boiler-cleaner. Cuspidor-cleaner. Fountain-pen cleaner. Record-cleaner. Well-cleaner. Windshield-cleaner.
Cleaning apparatus. T. H. Richardson. No. 1,343,644; June 15; v. 275; p. 515.
Cleaning device, Suction. W. V. Orr. No. 1,342,592; June 8; v. 275; p. 245.
Cleaning-machine, Vacuum. W. V. Orr. No. 1,342,593; June 8; v. 275; p. 245.
Cleansing and polishing composition. A. Muha. No. 1,342,862; June 8; v. 275; p. 298.
Clencher-rims, Tool for straightening. J. M. Cole. No. 1,344,533; June 22; v. 275; p. 755.
Clip: *See*—
Pen-locking clip.
Clip or clasp. W. H. Stevens. No. 1,342,698; June 8; v. 275; p. 265.
Clock. J. T. Loug. No. 1,344,913; June 29; v. 275; p. 893.
Clock, Loom-. M. Tamburini. No. 1,343,988; June 22; v. 275; p. 648.
Closet: *See*—
Chemical-closet.
Closet-bowl. F. J. Clifford and L. A. Perry. No. 1,342,499; June 8; v. 275; p. 226.
Closet-seat lid. G. E. Kinch. No. 1,342,505; June 8; v. 275; p. 227.
Closet-ventilator. E. A. Johnston. No. 1,342,716; June 8; v. 275; p. 268.
Cloth cutter. N. J. Goldfarb and B. Sacks. No. 1,342,210; June 1; v. 275; p. 118.
Cloth-cutting machines, Grinder for rotary. M. Zawistowski. No. 1,341,699; June 1; v. 275; p. 17.
Cloth, Machine for cutting strips of. H. Brown. No. 1,342,621; June 8; v. 275; p. 249.
Clothes-rack. J. D. Barber. No. 1,342,200; June 1; v. 275; p. 116.
Clothes-rack. L. Stevenson. No. 1,344,660; June 29; v. 275; p. 845.
Clothes-wringers, Material-actuated release for. E. B. Stocking. No. 1,342,005; June 1; v. 275; p. 76.
Clothes-wringers, Spring-actuated release for. E. B. Stocking. No. 1,342,004; June 1; v. 275; p. 76.
Clothesline-holder. R. Gist. No. 1,345,324; June 29; v. 275; p. 972.
Clothesline-hook. H. C. Lafferty. No. 1,344,589; June 22; v. 275; p. 766.
Clothespin. B. M. Barrickman. No. 1,344,254; June 22; v. 275; p. 699.
Clothespin. V. Davis. No. 1,343,496; June 15; v. 275; p. 485.
Clothespin. J. Muck. No. 1,342,755; June 8; v. 275; p. 276.
Clothespin-machine. B. W. Tucker. No. 1,344,217; June 22; v. 275; p. 692.
Clutch. J. F. Gorman. No. 1,341,796; June 1; v. 275; p. 36.
Clutch. A. B. Louison. No. 1,342,506; June 8; v. 275; p. 227.
Clutch. G. R. Marsico. No. 1,341,993; June 1; v. 275; p. 74.
Clutch. R. Schmitz. No. 1,344,597; June 22; v. 275; p. 767.
Clutch, Centrifugally-actuated. C. E. L. Dapprich. No. 1,341,635; June 1; v. 275; p. 4.
Clutch-controlling mechanism. J. F. Ryan. No. 1,342,762; June 8; v. 275; p. 278.
Clutch, Electrically-operated friction. M. Walker. No. 1,342,270; June 1; v. 275; p. 129.
Clutch-facing. D. Repony. No. 1,341,673; June 1; v. 275; p. 12.
Clutch, Friction-. T. O. Perry. No. 1,345,100; June 29; v. 275; p. 928.
Clutch mechanism. F. G. Hughes. No. 1,341,983; June 1; v. 275; p. 72.
Clutch, Multiple-disk. W. Turnbull. No. 1,344,361; June 22; v. 275; p. 720.
Clutch, Steering-. P. E. Holt. No. 1,344,309; June 22; v. 275; p. 728.
Clutches, Shifter-shoe for. C. E. Mason. No. 1,345,327; June 29; v. 275; p. 972.
Coal and other cargo, Skip for hauling. D. L. Gibson. No. 1,342,018; June 1; v. 275; p. 79.
Coal-chute. J. E. Hyatt and H. J. Moen. No. 1,343,675; June 15; v. 275; p. 521.
Coal-loading conveyer, Mechanical long-wall. A. E. Knee and G. B. Hopkins. No. 1,343,369; June 15; v. 275; p. 461.
Coaling device. S. H. Buchanan. No. 1,344,481; June 22; v. 275; p. 744.
Coaster, Kiddie-. M. L. Cantrell. No. 1,344,023; June 22; v. 275; p. 654.
Coat and hat hanger, Combined. W. B. Murtha. No. 1,342,346; June 1; v. 275; p. 143.
Coat-hanger. J. J. Kottschalk. No. 1,342,166; June 1; v. 275; p. 109.
Coat-hanger. J. L. Weber. No. 1,344,665; June 29; v. 275; p. 846.
Coating composition. F. G. Fully. No. 1,344,686; June 29; v. 275; p. 850.
Coating mineral material and product resulting therefrom. J. A. W. Pine. No. 1,343,680; June 15; v. 275; p. 522.
Coating, Sound-absorbing. C. H. Bryce. No. 1,341,704; June 1; v. 275; p. 18.
Cock, Drain-. O. A. Smith. No. 1,345,032; June 29; v. 275; p. 915.
Cock, Gas-. A. R. Tallman. No. 1,343,530; June 15; v. 275; p. 492.
Codes as used in telegraphy, Apparatus for teaching. C. R. and R. Woodland. No. 1,343,754; June 15; v. 275; p. 537.
Coffee, Apparatus for treating. A. Robert. No. 1,341,676; June 1; v. 275; p. 12.
Coffee infusion, Apparatus for preparing. P. T. Arduino. No. 1,344,161; June 22; v. 275; p. 681.
Coffee-pot. E. J. Rabbeth. No. 1,343,582; June 15; v. 275; p. 502.
Coffee-urn. A. S. Rice. No. 1,343,848; June 15; v. 275; p. 556.
Coil-winder. L. F. Stratton. No. 1,344,567; June 22; v. 275; p. 761.
Coin-controlled mechanism. G. L. Huff. No. 1,343,999; June 22; v. 275; p. 650.
Coin-controlled mechanism. G. L. Huff. No. 1,344,086; June 22; v. 275; p. 667.
Coin-controlled mechanism. W. Millard. No. 1,344,769; June 29; v. 275; p. 866.
Coin-dispensing device. O. Jaeger. No. 1,341,749; June 1; v. 275; p. 27.
Coin-register. A. H. Woodward. No. 1,344,840; June 29; v. 275; p. 880.
Coin-register, Station. A. H. Woodward. No. 1,344,841; June 29; v. 275; p. 880.
Coke-oven-door mechanism. L. Wilputte. No. 1,344,218; June 22; v. 275; p. 692.
Collapsible chair. A. E. Albertie. No. 1,344,431; June 22; v. 275; p. 734.
Collapsible chair. C. H. Walmsley. No. 1,341,689; June 1; v. 275; p. 15.
Collar-clasp. W. Hutchison. No. 1,345,191; June 29; v. 275; p. 946.
Collar-support. L. Grabiec. No. 1,342,106; June 1; v. 275; p. 97.
Collar-supporter. W. H. Clopton, Jr. No. 1,344,580; June 22; v. 275; p. 764.
Collecting and stapling mechanism. E. P. Sheldon. No. 1,343,231; June 15; v. 275; p. 435.

Comb. A. Nonnenmann. No. 1,342,224; June 1; v. 275; p. 121.
Combination-lock. J. Näslund. No. 1,345,020; June 29; v. 275; p. 913.
Combination-wrench. E. E. Thomas. No. 1,344,101; June 22; v. 275; p. 669.
Combustion device. S. Young. No. 1,344,668; June 29; v. 275; p. 846.
Combustion-engine. W. C. Hurst. No. 1,344,228; June 22; v. 275; p. 694.
Combustion method, Confined-. J. Good. No. 1,342,901; June 8; v. 275; p. 306.
Commode-chair, Folding. A. A. Howe. No. 1,342,715; June 8; v. 275; p. 268.
Compasses. C. F. Dieckmann. No. 1,343,664; June 15; v. 275; p. 519.
Composition of matter and producing same. L. E. Barton. No. 1,342,084; June 1; v. 275; p. 92.
Compound. L. D. Shiveley. No. 1,344,658; June 29; v. 275; p. 845.
Compound board. C. G. Robinson. No. 1,344,962; June 29; v. 275; p. 902.
Compression-release. G. A. Gocke. No. 1,343,501; June 15; v. 275; p. 486.
Compressor apparatus. W. S. Weeks. No. 1,343,536; June 15; v. 275; p. 493.
Concentrator. A. R. Mackie. No. 1,344,051; June 22; v. 275; p. 660.
Concentrator. M. L. Rogers. No. 1,343,683; June 15; v. 275; p. 523.
Concrete-bridge structure, Reinforced-. J. Stalner. No. 1,344,929; June 29; v. 275; p. 896.
Concrete, Chair for reinforcing-rods for reinforced. W. B. Leonard. No. 1,343,326; June 15; v. 275; p. 452.
Concrete construction. E. A. Eastman. No. 1,344,623; June 29; v. 275; p. 837.
Concrete construction, Form for. J. H. Cresmer. No. 1,344,115; June 22; v. 275; p. 672.
Concrete cooling-tower, Reinforced. G. Kuypers. No. 1,343,832; June 15; v. 275; p. 553.
Concrete floorings and non-sonorous ceilings, Construction of. L. Christin. No. 1,343,659; June 15; v. 275; p. 518.
Concrete hulls, Compressor-mold for forming. E. A. Larsen. No. 1,343,176; June 8; v. 275; p. 360.
Concrete-mold. F. G. Lynde. No. 1,343,572; June 15; v. 275; p. 500.
Concrete-mold-form stay. J. N. Heltzel. No. 1,345,179; June 29; v. 275; p. 944.
Concrete piles, Method and apparatus for constructing. S. M. Cotten. No. 1,342,424; June 8; v. 275; p. 212.
Concrete pipe. J. D. Trammell. No. 1,344,779; June 29; v. 275; p. 868.
Concrete-pipe-making machine. G. C. Martin. No. 1,344,590; June 22; v. 275; p. 766.
Concrete, Reinforcing structure for. W. Goldie. No. 1,344,882; June 29; v. 275; p. 887.
Concrete stack. W. M. Alston. No. 1,344,608; June 29; v. 275; p. 835.
Concrete structures, Reinforcing means for. W. Goldie. No. 1,344,881; June 29; v. 275; p. 887.
Concrete structures, Reinforcing means for. W. Goldie. No. 1,344,942; June 29; v. 275; p. 898.
Concrete-surface-finishing machine. P. C. McArdle. No. 1,344,916; June 29; v. 275; p. 894.
Concrete wall structure, Reinforced-. V. J. Madsen. No. 1,343,926; June 22; v. 275; p. 636.
Condenser and separator. C. W. Hottmann. No. 1,342,810; June 8; v. 275; p. 288.
Condenser installation. R. N. Ehrhart. No. 1,342,103; June 1; v. 275; p. 96.
Condenser system and vacuum-pump. P. Diserens. No. 1,344,994; June 29; v. 275; p. 908.
Condensers, Auxiliary apparatus for. R. Suczek. No. 1,342,471; June 8; v. 275; p. 221.
Condiment-holder. E. Ament. No. 1,342,524; June 8; v. 275; p. 231.
Conduit, Conveyer-. L. A. Griffin. No. 1,342,167; June 1; v. 275; p. 109.
Conduit, Fabric. V. C. Gilbin and J. E. McAuliffe. No. 1,344,501; June 22; v. 275; p. 749.
Confectionery-machines, Nut-depositor for. W. E. McCorkle. No. 1,343,924; June 22; v. 275; p. 636.
Container. S. W. Oglesby. No. 1,345,021; June 29; v. 275; p. 913.
Container. L. J. Schunmaker. No. 1,342,069; June 1; v. 275; p. 89.
Container. H. G. Thompson. No. 1,345,036; June 29; v. 275; p. 916.
Container. J. M. Wilson. No. 1,342, 243; June 1; v. 275; p. 124.
Container-closure. I. A. Pryde. No. 1,343,474; June 15; v. 275; p. 480.
Container, Collapsible. J. A. Walgren. No. 1,344,601; June 22; v. 275; p. 768.
Container, Metal. A. Schroeder. No. 1,344,455; June 22; v. 275; p. 730.
Container, Metallic. A. Schroeder. No. 1,344,456; June 22; v. 275; p. 740.
Container, Preserving. W. W. Palmer. No. 1,343,579; June 15; v. 275; p. 502.
Container structure. J. P. Markert. No. 1,342,002; June 8; v. 275; p. 326.
Container with adjustable false bottom. T. C. Potts and A. R. Mann. No. 1,341,927; June 1; v. 275; p. 62.
Control apparatus. P. L. Mardis. No. 1,343,218; June 15; v. 275; p. 432.
Control apparatus. P. L. Mardis. No. 1,343,219; June 15; v. 275; p. 432.
Control apparatus. K. A. Simmon. No. 1,343,232; June 15; v. 275; p. 435.
Control mechanism, Variable automatic. G. W. Swift, Jr. No. 1,343,487; June 15; v. 275; p. 483.
Control system. R. E. Hellmund. No. 1,343,210; June 15; v. 275; p. 431.
Control system. R. E. Hellmund. No. 1,343,211; June 15; v. 275; p. 431.
Control system. R. E. Hellmund. No. 1,344,762; June 29; v. 275; p. 865.
Control system. R. E. Hellmund. No. 1,344,763; June 29; v. 275; p. 865.
Control system. F. H. Miller. No. 1,341,657; June 1; v. 275; p. 8.
Control system. L. G. Riley. No. 1,341,675; June 1; v. 275; p. 12.
Controller. J. R. Langley. No. 1,343,214; June 15; v. 275; p. 431.
Controlling device. F. F. Main. No. 1,342,338; June 1; v. 275; p. 141.
Conveyer. J. A. Anderson. No. 1,342,789; June 8; v. 275; p. 284.
Conveyer. R. Rafn. No. 1,344,246; June 22; v. 275; p. 697.
Conveyer-feed control. E. H. Messiter. No. 1,344,768; June 29; v. 275; p. 866.
Conveyer or elevator, Smooth-band. J. L. Lemoine. No. 1,342,684; June 8; v. 275; p. 262.
Conveying and discharging apparatus. E. B. Stone. No. 1,342,975; June 8; v. 275; p. 320.
Conveying device. C. Pedersen. No. 1,343,373; June 15; v. 275; p. 461.
Cooker, Automatic. J. H. Jacobs. No. 1,341,748; June 1; v. 275; p. 27.
Cookers and exhausts, Steam-conserver for cannery. O. L. Merritt and W. P. Jones. No. 1,344,809; June 29; v. 275; p. 874.
Cooking apparatus. L. Meyer and R. Schiff. No. 1,341,960; June 1; v. 275; p. 68.
Cooking utensil. O. R. Berger. No. 1,341,731; June 1; v. 275, p. 25.
Cooking utensil. J. A. Howard, Sr. No. 1,344,511; June 22; v. 275; p. 750.
Cooking utensils, False bottom for. F. M. Colson. No. 1,343,114; June 8; v. 275; p. 348.
Cooking utensils, Removable bottom for. B. J. Biddle. No. 1,345,119; June 29; v. 275; p. 932.
Cooking vessel and cover therefor. M. A. Walden. No. 1,344,836; June 29; v. 275; p. 879.
Cooky-boxes, Rack for holding. E. Riley and C. F. Yuncker. No. 1,345,244; June 29; v. 275; p. 956.
Coop, Chicken-. A. G. Campbell. No. 1,342,371; June 1; v. 275; p. 148.
Coop, Collapsible. H. P. Galbreath. No. 1,344,877; June 29; v. 275; p. 886.
Copper, Extracting. A. A. Ossa. No. 1,343,153; June 8; v. 275; p. 355.
Copper from its ores, Recovering. C. J. A. Dalziel. No. 1,341,786; June 1; v. 275; p. 34.
Copra-drying apparatus. J. D. McCord. No. 1,341,655; June 1; v. 275; p. 8.
Core, Collapsible. A. H. Harris. No. 1,343,504; June 15; v. 275; p. 487.
Corn-header. W. F. Hamilton. No. 1,343,884; June 15; v. 275; p. 563.
Corn-planter and fertilizer-distributer. M. Jennings. No. 1,342,333; June 1; v. 275; p. 140.
Corn-thinner. M. I. Goldsmith. No. 1,343,558; June 15; v. 275; p. 498.
Cornet. J. W. Calderwood. No. 1,343,883; June 15; v. 275; p. 563.
Cornet-mute. P. Santa Emma. No. 1,342,846; June 8; v. 275; p. 295.
Cornucopia-baking machine, Rotary automatic. M. J. Wolff. No. 1,344,285; June 22; v. 275; p. 705.
Corset-steel. A. J. Lecoutre. (Reissue.) No. 14,892; June 22; v. 275; p. 771.
Cotton-chopper. G. M. Hart and J. E. Wall. No. 1,343,777; June 15; v. 275; p. 541.
Cotton-gin. O. C. McBride. No. 1,345,206; June 29; v. 275; p. 949.
Cotton-gins, Mote-board for. J. L. Wooldridge. (Reissue.) No. 14,874; June 1; v. 275; p. 157.
Counter. S. A. Comiskey. No. 1,342,665; June 8; v. 275; p. 257.
Counter apparatus. W. E. Horsch. No. 1,343,723; June 15; v. 275; p. 531.
Counter-board and producing same. A. L. Clapp. No. 1,345,317; June 29; v. 275; p. 971.
Counterbalance construction for hinged covers. D. W. Sellek. No. 1,345,261; June 29; v. 275; p. 959.
Coupling: *See*—
Car-coupling. Chain-coupling. Draft-coupling. Flexible coupling. Fluid-pressure coupling. Gear-coupling. Hose-coupling. Pipe-coupling. Shaft-coupling. Tractor-coupling.
Coupling device, Flexible. R. A. Smith and J. J. Serrell. No. 1,343,413; June 15; v. 275; p. 469.

Coupling or clutch. J. W. Barber. No. 1,342,936; June 8; v. 275; p. 313.
Cover-fastener. G. H. Bliss. No. 1,344,576; June 22; v. 275; p. 763.
Cradle, Transferable. Ea A. Turner. No. 1,343,009; June 22; v. 275; p. 652.
Crane. A. Welin. No. 1,342,480; June 8; v. 275; p 222.
Crane, Counterbalanced. S. T. Sjoberg. No. 1,344,659; June 29; v. 275; p. 845.
Crane, Freight loading and unloading. J. Pluclenski. No. 1,341,996; June 1; v. 275; p. 75.
Crane, Mold-assembling. C. K. Prince. No. 1,343,335; June 15; v. 275; p. 454.
Cranes, Means for the automatic equilibrium floating. V. Locarni. No. 1,343,630; June 15; v. 275; p. 510.
Crank-case reinforcement. R. G. Lundgreen. No. 1,345,204; June 29; v. 275; p. 948.
Crank-handle-retaining device. O. Harp. No. 1,344,343; June 22; v. 275; p. 717.
Crank pin and shaft truing tool. J. H. Sutter and C. N. Atherton. No. 1,344,831; June 29; v. 275; p. 878.
Crank, Safety-. H. H. Davis. No. 1,345,142; June 29; v. 275; p. 936.
Crank, Safety. C. Schmidt. No. 1,344,521; June 22; v. 275; p. 752.
Crank-shaft pins, Portable lathe for recutting. W. H. Craun and P. Mathis. No. 1,345,138; June 29; v. 275; p. 936.
Crate, Collapsible. E. W. Langrell and J. J. Nuss. No. 1,344,543; June 22; v. 275; p. 757.
Crate, Folding. J. McCauley. No. 1,342,750; June 8; v. 275; p. 275.
Crate, Sanitary bottle-. O. E. Watson. No. 1,341,869; June 1; v. 275; p. 50.
Crimping machine. E. T. Reuter and W. A. Skinner. No. 1,345,240; June 29; v. 275; p. 955.
Crosstie. J. R. Dooley. No. 1,343,814; June 15; v. 275; p. 549.
Crushing-mill, Gyratory. W. W. Gibson. No. 1,344,584; June 22; v. 275; p. 765.
Crystals in bezels and rings, Device for inserting. E. G. Loomis. No. 1,344,700; June 29; v. 275; p. 852.
Cuffs, Flexible sheet form for soft. J. A. Smith. No. 1,342,032; June 1; v. 275; p. 82.
Cultivator. R. L. Guthrie. No. 1,342,285; June 1; v. 275; p. 132.
Cultivator. W. Larson. No. 1,344,804; June 29; v. 275; p. 873.
Cultivator. C. S. McCarthy, Jr. No. 1,344,138; June 22; v. 275; p. 677.
Cultivator. H. C. Smith. No. 1,342,302; June 1; v. 275; p. 135.
Cultivator. R. W. Thayer. No. 1,344,833; June 29; v. 275; p. 878.
Cultivator-tooth. C. A. Martin. No. 1,345,209; June 29; v. 275; p. 949.
Cultivators, Weeding attachment for. C. M. and M. V. Long. No. 1,343,058; June 8; v. 275; p. 337.
Cup: *See*—
Drinking-cup. Valve-stem-packing cup.
Cup holder, Sputum-. A. Z. Rubin. No. 1,345,252; June 29; v. 275; p. 958.
Cup or box. M. Jakobson. No. 1,343,726; June 15; v. 275; p. 531.
Cups, Coin-controlled device for dispensing. H. M. Hill. No. 1,344,692; June 29; v. 275; p. 851.
Curler. O. E. Vandamark. No. 1,345,040; June 29; v. 275; p. 917.
Curtain and shade hanger. E. J. Corrigan. No. 1,343,997; June 22; v. 275; p. 649.
Curtain and shade support, Combined. E. E. Fields. No. 1,344,298; June 22; v. 275; p. 708.
Curtain, Automobile-. J. J. Moore. No. 1,343,148; June 8; v. 275; p. 354.
Curtain-draper, Self-adjusting. J. L. Kinikin. No. 1,344,233; June 22; v. 275; p. 695.
Curtain-fixture. S. J. Lask. No. 1,344,412; June 22; v. 275; p. 730.
Curtain-holder. A. M. Gross. No. 1,345,170; June 29; v. 275; p. 942.
Curtain holder, Side-. J. P. Gray. No. 1,345,086; June 29; v. 275; p. 925.
Curtain-rod bracket, Adjustable. R. E. Fisher. No. 1,341,742; June 1; v. 275; p. 26.
Curtain-roller. E. G. Simpson. No. 1,344,358; June 22; v. 275; p. 720.
Curtain-stretcher. S. Solomon. No. 1,342,396; June 1; v. 275; p. 152.
Curtains, Window-frame for vehicle-. E. E. Pemble. No. 1,342,460; June 8; v. 275; p. 218.
Cushion: *See*—
Pneumatic cushion. Spring-cushion.
Cushion-wheel. P. H. Dorsey. No. 1,344,337; June 22; v. 275; p. 716.
Cushion-wheel. G. M. Peters. No. 1,342,461; June 8; v. 275; p. 218.
Cuspidor bracket, Sanitary-. W. G. Batson. No. 1,342,889; June 8; v. 275; p. 303.
Cuspidor-cleaner. C. Cosme. No 1,342,739; June 8; v. 275; p. 273.
Cuspidor, Sanitary. J. Pluclenski. No. 1,343,406; June 15; v. 275; p. 468.
Cutter: *See*—
Belt-cutter. Heel-cutter.
Cloth-cutter. Ice-cream cutter.
Dough-cutter Weed-cutter.
Fruit-cutter. Worm-wheel cutter.
Cutting and molding machine. H. E. Leonard. No. 1,344,302; June 22; v. 275; p. 709.
Cutter-head. J. A. Eden, Jr. No. 1,342,535; June 8; v. 275; p. 233.
Cutter-head. A. B. Landis. No. 1,344,908; June 29; v. 275; p. 892.
Cutter-head. F. P. Miller. No. 1,342,055; June 1; v. 275; p. 87.
Cutting die, Sole-. T. W. Bilello. No. 1,343,383; June 15; v. 275; p. 463.
Cutting implement, Hand-controlled rotary. E. H. Madère. No. 1,342,294; June 1; v. 275; p. 133.
Cutting-machine. W. C. Baxter. No. 1,344,975; June 29; v. 275; p. 904.
Cutting means. J. T. and P. P. Murphy. No. 1,343,639; June 15; v. 275; p. 514.
Cutting-machines, Cutting attachment for. J. P. Wels. No. 1,342,008; June 1; v. 275; p. 77.
Cutting tapered elliptical holes, Apparatus for. F. E. B. Fripp. No. 1,342,261; June 1; v. 275; p. 127.
Cylinder-head, Combined. T. D. Lemieux. No. 1,343,678; June 15; v. 275; p. 522.
Cylinder-lock. W. E. Delbert. No. 1,343,438; June 15; v. 275; p. 474.
Cylinders, Apparatus for reboring. E. E. Larson. No. 1,344,410; June 22; v. 275; p. 730.
Cylinders, Means for supporting gas-holding. M. von Recklinghausen. No. 1,345,042; June 29; v. 275; p. 917.
Damper. W. V. Conte. No. 1,341,881; June 1; v. 275; p. 52.
Dams, Automatic gate-operating means for. J. D. Justin. No. 1,344,043; June 22; v. 275; p. 659.
Dark, Method of and apparatus for detecting and observing objects in the. S. O. Hoffman. No. 1,343,393; June 15; v. 275; p. 465.
Davenport. O. H. Schram. No. 1,344,825; June 29; v. 275; p. 877.
Davenport. O. H. Schram. No. 1,344,928; June 29; v. 275; p. 896.
Davenport. F. B. Worsel, Jr. No. 1,342,785; June 8; v. 275; p. 283.
Dead-center device. W. L. Harris. No. 1,341,849; June 1; v. 275; p. 47.
Deflocculating solid substances. E. G. Acheson. No. 1,345,306; June 29; v. 275; p. 969.
Deflocculating solid materials and agents therefor. E. G. Acheson. No. 1,345,305; June 29; v. 275; p. 969.
Demonstrating device, Refractional. A. Angel. No. 1,341,773; June 1; v. 275; p. 32.
Dental articulator. W. M. Stanbrough. No. 1,343,691; June 15; v. 275; p. 524.
Dental-cement-injecting tube. H. L. Cruttenden. No. 1,341,736; June 1; v. 275; p. 24.
Dental educational device. R. O. Brittain. No. 1,342,156; June 1; v. 275; p. 107.
Dental massage and polishing appliance. C. W. Fuller. No. 1,343,713; June 15; v. 275; p. 529.
Dental suction-plate. G. S. Whitaker. No. 1,343,950; June 22; v. 275; p. 640.
Dental suction-plates, Vacuum-cup-fastening means for. G. S. Whitaker. No. 1,343,949; June 22; v. 275; p. 640.
Depositing-machine. F. G. Salerno. No. 1,342,598; June 8; v. 275; p. 246.
Derrick for vehicles. S. Zied. No. 1,345,304; June 29; v. 275; p. 968.
Derrick, Portable general-utility. J. M. Hill. No. 1,345,008; June 29; v. 275; p. 910.
Desk and seat, School. T. Quinlan. No. 1,345,105; June 29; v. 275; p. 929.
Detachable-body lock. W. N. Baer. No. 1,344,572; June 22; v. 275; p. 762.
Diamonds, &c., and making same, Hardened material for use in the arts as substitutes for. A. J. Liebmann and C. A. Laise. No. 1,343,976; June 22; v. 275; p. 645.
Diamonds, &c., and making same, Hardened material for use in the arts as substitutes for. A. J. Liebmann and C. A. Laise. No. 1,343,977; June 22; v. 275; p. 645.
Diaphragm blast-meter. E. H. Schulz. No. 1,344,722; June 29; v. 275; p. 856.
Differential. G. W. Wilkin. No. 1,344,107; June 22; v. 275; p. 670.
Differential and driving mechanism. P. G. Beremand. No. 1,342,938; June 8; v. 275; p. 313.
Die: *See*—
Cutting-die.
Die. E. F. Kaudlbinder. No. 1,344,637; June 29; v. 275; p. 840.
Digging machine, Ditch-. F. F. Lyons. No. 1,343,734; June 15; v. 275; p. 533.
Dipper, Excavating-. M. E. Pugh. No. 1,342,759; June 8; v. 275; p. 277.
Direction-indicating device. T. B. Wright. No. 1,342,788; June 8; v. 275; p. 283.
Direction-indicator, Vehicle. G. E. Bates. No. 1,343,994; June 22; v. 275; p. 649.

Direction-indicator, Vehicle. F. F. Brendle. No. 1,343,761; June 15; v. 275; p. 538.
Direction-indicator, Vehicle. W. F. Rotermund. No. 1,344,654; June 29; v. 275; p. 844.
Direction-signal, Vehicle. W. H. Case. No. 1,344,618; June 29; v. 275; p. 837.
Dish-washer. E. N. Paris. No. 1,345,226; June 29; v. 275; p. 952.
Dispenser. S. Gagnon. No. 1,341,711; June 1; v. 275; p. 19.
Display device. H. L. A. Frank. No. 1,345,158; June 29; v. 275; p. 940.
Display device. J. K. Hackett. No. 1,344,084; June 22; v. 275; p. 666.
Display-fixtures, Spacer for panels of. H. V. Lough. No. 1,344,239; June 22; v. 275; p. 696.
Displaying device. J. Fazio. No. 1,344,685; June 29; v. 275; p. 849.
Display-holder. L. C. Quackenboss. No. 1,341,822; June 1; v. 275; p. 41.
Display-holder. L. G. Quackenboss. No. 1,343,681; June 15; v. 275; p. 522.
Displaying device, Illuminated. J. H. Chidester. No. 1,344,379; June 22; v. 275; p. 724.
Distiller's slop, Treating. H. P. Bassett. No. 1,344,850; June 29; v. 275; p. 881.
Distillers' slop, Treating. H. P. Bassett. No. 1,344,851; June 29; v. 275; p. 882.
Diving apparatus. F. W. Pendergast. No. 1,343,744; June 15; v. 275; p. 535.
Doll. W. D. Kemp. No. 1,341,985; June 1; v. 275; p. 73.
Doll. R. A. Thomson and G. Alvis. No. 1,343,422; June 15; v. 275; p. 471.
Doll-house. K. Suyehiro. No. 1,343,065; June 8; v. 275; p. 338.
Door. E. H. McCloud. No. 1,342,751; June 8; v. 275; p. 275.
Door, Automatic elevator-. J. R. McGee. No. 1,343,328; June 15; v. 275; p. 452.
Door, Elevator-shaft. A. Rush. No. 1,341,863; June 1; v. 275; p. 49.
Door, Elevator-shaft. A. Rush. No. 1,341,864; June 1; v. 275; p. 49.
Door-bolt. E. J. Smith. No. 1,345,031; June 29; v. 275; p. 91..
Door-hanger. G. M. Piper. (Reissue.) No. 14,893; June 22; v. 275; p. 771.
Door-locks, Circuit-closer for. A. K. Winter. No. 1,344,783; June 29; v. 275; p. 869.
Door operating mechanism. A. F. Bowers. No. 1,341,775; June 1; v. 275; p. 32.
Door-operating mechanism. A. Campbell. No. 1,342,090; June 1; v. 275; p. 94.
Door or partition construction, Sheet-metal. C. A. Betz. No. 1,343,545; June 15; v. 275; p. 495.
Door, Sheet-metal. A. S. Barrows. No. 1,342,400; June 1; v. 275; p. 153.
Door, Sliding. P. F. Stacke. No. 1,343,416; June 15; v. 275; p. 470.
Door-spring. J. A. Campbell. No. 1,343,033; June 8; v. 275; p. 332.
Doors and windows, Fly-exit for screen. R. B. Watson and J. C. Kitterman. No. 1,343,069; June 8; v. 275; p. 339.
Doors, Swivel-hanger for. T. V. Plice. No. 1,343,789; June 15; v. 275; p. 544.
Doorknob. R. A. Breul. No. 1,341,969; June 1; v. 275; p. 70.
Doorstop and holder. J. W. Newsom. No. 1,344,647; June 29; v. 275; p. 842.
Dough-cutter. G. Rapasy. No. 1,343,844; June 15; v. 275; p. 555.
Dough-feeding device. R. E. Baker, E. H. Ford, and L. S. Harber. No. 1,343,184; June 8; v. 275; p. 361.
Draft attachment. A. E. Edstrom. No. 1,343,908; June 22; v. 275; p. 632.
Draft-coupling. J. W. Buller. No. 1,344,482; June 22; v. 275; p. 745.
Draft-detaching device. J. Kuncus. No. 1,342,119; June 1; v. 275; p. 99.
Draft-regulator. J. O. Anderson. No. 1,341,872; June 1; v. 275; p. 51.
Draft-rigging. P. Brown. No. 1,344,979; June 29; v. 275; p. 905.
Draft-rigging. P. Brown. No. 1,344,980; June 29; v. 275; p. 905.
Draft-rigging. P. Brown. No. 1,344,981; June 29; v. 275; p. 905.
Drapery-holder. H. L. Sweney. No. 1,341,684; June 1; v. 275; p. 14.
Drawer-locking device. S. Osterweil. No. 1,343,742; June 15; v. 275; p. 534.
Drawing-protractor. E. L. Micheau. No. 1,342,129; June 1; v. 275; p. 102.
Drawing-table. E. R. Koechlin. No. 1,341,988; June 1; v. 275; p. 73.
Drawings and other records, Method of and material for making. C. H. Little. No. 1,343,978; June 22; v. 275; p. 646.
Dredge, Walking-. V. G. Anderson. No. 1,344,571; June 22; v. 275; p. 762.
Dress-suit case and locker, Combined. T. W. King. No. 1,344,408; June 22; v. 275; p. 729.
Drier: *See*—
Centrifugal drier. Rotary drier.
Fruit-peel drier.
Drier. W. D. Palen and H. Bogaty. No. 1,345,225; June 29; v. 275; p. 952.
Dry cell. W. B. Schulte. No. 1,342,001; June 1; v. 275; p. 76.
Drying apparatus. S. H. Melhuizen. No. 1,344,241; June 22; v. 275; p. 696.
Drying goods in layers, Apparatus for. A. Hofmann. No. 1,344,893; June 29; v. 275; p. 889.
Drying-kiln. C. A. Cutler. No. 1,341,884; June 1; v. 275; p. 53.
Drying-machines, Bearing for the cylinders of. W. Mycock. No. 1,342,131; June 1; v. 275; p. 102.
Drying plant. P. Barducci. No. 1,344,163; June 22; v. 275; p. 681.
Drift-bar. F. H. Colvin No. 1,344,619; June 29; v. 275; p. 837.
Drill: *See*—
Breast-drill. Rock-drill.
Drill. R. D. Maddox. No. 1,343,180; June 8; v. 275; p. 360.
Drill and wire gage. R. Ichiba. No. 1,342,288; June 1; v. 275; p. 132.
Drill-bit. P. G. Midgett. No. 1,344,425; June 22; v. 275; p. 733.
Drill-press table and vise, Combination. G. H. Cocks. No. 1,341,841; June 1; v. 275; p. 45.
Drill-stem. R. L. Burns. No. 1,344,221; June 22; v. 275; p. 695.
Drills, machine for making twist-. R. H. Deschauer. No. 1,341,636; June 1; v. 275; p. 4.
Drills, Worm-gear construction for rotary. P. Yungling. No. 1,345,110; June 29; v. 275; p. 930.
Drilling apparatus. W. A. Smith. No. 1,345,271; June 29; v. 275; p. 962.
Drilling-braces, Attachment to carpenters' and similar hand. P. J. Le Sueur. No. 1,344,910; June 29; v. 275; p. 893.
Drilling-machine, Rotary. L. J. Black. No. 1,341,702; June 1; v. 275; p. 18.
Drilling-tools, Apparatus for dislodging. H. G. Welsh. No. 1,345,299; June 29; v. 275; p. 968.
Drink-mixing device. H. C. Schlicker. No. 1,344,565; June 22; v. 275; p. 761.
Drinking-cup. B. B. Avery. No. 1,341,831; June 1; v. 275; p. 43.
Drinking-cup and manufacturing such cups, Sanitary. B. B. Avery and A. Nelson. No. 1,341,835; June 1; v. 275; p. 44.
Drinking-cup fixture. C. Errett. No. 1,343,965; June 22; v. 275; p. 643.
Drinking-cup, Stock. B. A. Belling. No. 1,344,750; June 29; v. 275; p. 862.
Drinking-cups, Former for manufacturing sanitary. A. Nelson and B. B. Avery. No. 1,341,833; June 1; v. 275; p. 43.
Drinking-cups, Machine for manufacturing and vending sanitary. A. Nelson and B. B. Avery. No. 1,341,836; June 1; v. 275; p. 44.
Drinking-cups, Making. A. Nelson and B. B. Avery. No. 1,341,834; June 1; v. 275; p. 44.
Drinking-cups, Manufacturing sanitary. B. B. Avery and A. Nelson. No. 1,341,832; June 1; v. 275; p. 43.
Driving and stopping mechanism. J. Klewicz. No. 1,344,345; June 22; v. 275; p. 717.
Drum-beater. G. A. Smith. No. 1,343,163; June 8; v. 275; p. 357.
Drum-beater. G. A. Smith. No. 1,343,164; June 8; v. 275; p. 358.
Drum-winding machine. B. D. Coppage. No. 1,342,532; June 8; v. 275; p. 232.
Duplex board. B. K. Ford. No. 1,345,081; June 29; v. 275; p. 924.
Duplicating-machine. H. Cohn. No. 1,342,530; June 8; v. 275; p. 232.
Dust-collector. C. B. Peck. No. 1,344,146; June 22; v. 275; p. 678.
Dust-separator. H. Milliken. No. 1,344,055; June 22; v. 275; p. 661.
Duster, Dustless. F. H. McGregory. No. 1,344,545; June 22; v. 275; p. 757.
Dusting and deodorizing machine. L. E. Mashieck. No. 1,344,551; June 22; v. 275; p. 758.
Dyeing fur-skins, Machine for. M. Dickerson. No. 1,343,355; June 15; v. 275; p. 458.
Dyeing-machine. F. L. Bickel. No. 1,344,788; June 29; v. 275; p. 870.
Dyeing-machine. H. M. Dudley. No. 1,342,711; June 8; v. 275; p. 267.
Dyeing-machine. W. J. Going. No. 1,343,326; June 15; v. 275; p. 439.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,344,120; June 22; v. 275; p. 673.
Dyeing machine, Hosiery-. H. M. Dudley. No. 1,344,121; June 22; v. 275; p. 673.
Dyestuffs capable of being diazotized and making same. A. Scheidler. No. 1,342,134; June 1; v. 275; p. 103.
Dynamic balances, Method of and apparatus for testing for. N. W. Akimoff. No. 1,343,954; June 22; v. 275; p. 641.

Dynamo-mounting. C. Hartmann. No. 1,344,945; June 29; v. 275; p. 899.

Dynamo-mounting. C. Hartmann. No. 1,344,946; June 29; v. 245; p. 899.

Ear-drum protector or ear-stopper. E. Baum. No. 1,344,935; June 29; v. 275; p. 897.

Ear ornaments, Fastening device for. H. T. Moler. No. 1,344,556; June 22; v. 275; p. 759.

Ear-snapping and corn-husking machine. J. W. Promenschenkel. No. 1,344,563; June 22; v. 275; p. 761.

Easel. C. S. Huribut. No. 1,343,054; June 8; v. 275; p. 336.

Easel. J. Stranders. No. 1,342,313; June 1; v. 275; p. 137.

Education appliance. T. M. Smith. No. 1,343,095; June 8; v. 275; p. 344.

Educational device for objective teaching. O. Herrmann. No. 1,343,721; June 15; v. 275; p. 530.

Egg-candler. C. W. Ellis. No. 1,345,151; June 29; v. 275; p. 938.

Egg-carrier. A. V. Lea. No. 1,343,629; June 15; v. 275; p. 512.

Egg-timer. M. J. Nelson. No. 1,343,738; June 15; v. 275; p. 533.

Egg-tray. S. C. Beamer. No. 1,344,019; June 22; v. 275; p. 654.

Electric arch-support, Thermo-. A. R. Cooper. No. 1,344,581; June 22; v. 275; p. 764.

Electric battery. O. E. Ruhoff. No. 1,342,068; June 1; v. 275; p. 89.

Electric circuits, Method and means for controlling. H. R. Canfield. No. 1,344,260; June 22; v. 275; p. 700.

Electric cord. Grip-fitting for. E. C. White. No. 1,342,787; June 8; v. 275; p. 283.

Electric-current-regulating plugs and sockets, Switch and contact mechanism for. A. Pipini. No. 1,342,061; June 1; v. 275; p. 88.

Electric cut-out. C. Dantsizen. No. 1,343,039; June 8; v. 275; p. 333.

Electric fixtures, Making installation-loops for. J. Shoner. No. 1,342,071; June 1; v. 275; p. 90.

Electric heating apparatus. E. F. Collins. No. 1,343,996; June 22; v. 275; p. 649.

Electric heating element. C. R. Wassell. No. 1,344,282; June 22; v. 275; p. 705.

Electric-light socket. L. E. Wood. No. 1,342,658; June 8; v. 275; p. 256.

Electric-light switch. D. A. Byerly. No. 1,343,109; June 8; v. 275; p. 347.

Electric lock. J. A. Kyle. No. 1,343,731; June 15; v. 275; p. 532.

Electric machine, Dynamo-. C. B. Mills. No. 1,343,221; June 15; v. 275; p. 433.

Electric machine, Magneto-. H. W. Uhl. No. 1,345,331; June 29; v. 275; p. 973.

Electric machines, Cooling arrangement for dynamo-. P. A. H. Mossay and H. C. E. Jacoby. No. 1,342,179; June 1; v. 275; p. 111.

Electric outlet members, Stud-attaching means for. C. N. Detwiler. No. 1,344,077; June 22; v. 275; p. 665.

Electric regulation. J. L. Creveling. No. 1,343,905; June 22; v. 275; p. 631.

Electric regulation. J. L. Creveling. No. 1,344,222; June 22; v. 275; p. 693.

Electric regulator. N. R. Haas. No. 1,344,689; June 29; v. 275; p. 850.

Electric signaling. M. S. Morse. No. 1,344,308; June 22; v. 275; p. 710.

Electric starting and generating system. E. H. Swarz. No. 1,343,409; June 15; v. 275; p. 468.

Electric switch. F. C. Naujoks. No. 1,344,925; June 29; v. 275; p. 896.

Electric switch. D. G. Roos. No. 1,342,229; June 1; v. 275; p. 121.

Electric-switch lock. C. D. Platt. No. 1,344,958; June 29; v. 275; p. 901.

Electric switches, No-voltage release attachment for. G. A. Burnham. No. 1,343,961; June 22; v. 275; p. 642.

Electric system. J. L. Creveling. No. 1,343,765; June 15; v. 275; p. 539.

Electric treating and exercising machine. J. B. Kibler. No. 1,344,002; June 22; v. 275; p. 650.

Electric water-heater. W. D. Huff. No. 1,343,134; June 8; v. 275; p. 352.

Electrical apparatus. J. J. Frank. No. 1,342,995; June 8; v. 275; p. 324.

Electrical apparatus, Casing and support for. W. O. Beck. No. 1,343,880; June 15; v. 275; p. 562.

Electrical coil. T. P. Giblin. No. 1,342,209; June 1; v. 275; p. 117.

Electrical communication, Method of and apparatus for D. G. McCaa. No. 1,344,275; June 22; v. 275; p. 703.

Electrical compensator. A. A. Tirrill. No. 1,344,742; June 29; v. 275; p. 860.

Electrical compensator. A. A. Tirrill. No. 1,344,743; June 29; v. 275; p. 861.

Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,304; June 1; v. 275; p. 135.

Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,342,305; June 1; v. 275; p. 136.

Electrical conductors, Insulated support for. L. Steinberger and G. Hlll. No. 1,342,306; June 1; v. 275; p. 136.

Electrical conductors, Insulated support for. L. Steinberger and G. Hlll. No. 1,342,307; June 1; v. 275; p. 136.

Electrical conductors, Insulated support for. L. Steinberger and G. Hlll. No. 1,342,309; June 1; v. 275; p. 136.

Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,310; June 1; v. 275; p. 136.

Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,311; June 1; v. 275; p. 136.

Electrical conductors, Insulated support for. L. Steinberger. No. 1,342,312; June 1; v. 275; p. 136.

Electrical detecting machine. E. L. Welch. No. 1,342,835; June 8; v. 275; p. 293.

Electrical distribution system. W. A. Turbayne. No. 1,343,597; June 15; v. 275; p. 505.

Electrical protective device. C. L. Fortescue. No. 1,344,759; June 29; v. 275; p. 864.

Electrical system. J. M. Brown. No. 1,343,345; June 15; v. 275; p. 456.

Electrical system. R. Varley. No. 1,344,463; June 22; v. 275; p. 741.

Electrode for searchlights and making same. E. A. Sperry. No. 1,342,398; June 1; v. 275; p. 153.

Electrode for soldering and depositing metals by the electric arc. E. H. Jones. No. 1,341,647; June 1; v. 275; p. 6.

Electrochemical analytical control. P. E. Edelman. No. 1,341,790; June 1; v. 275; p. 35.

Electroller. L. Roth. No. 1,344,452; June 22; v. 275; p. 739.

Electroller. L. M. Wood. No. 1,344,251; June 22; v. 275; p. 698.

Electrolytic apparatus. E. O. Benjamin. No. 1,344,220; June 22; v. 275; p. 692.

Electrolytic cell. L. W. Chubb. No. 1,344,752; June 29; v. 275; p. 863.

Electrolytic cell. L. W. Chubb. No. 1,344,753; June 29; v. 275; p. 863.

Electrolytic cell. J. Gerstle. No. 1,342,378; June 1; v. 275; p. 149.

Electrolytic cell. P. McDorman. No. 1,342,336; June 1; v. 275; p. 141.

Electrolyzing cobalt solutions. E. B. Cutten. No. 1,344,869; June 29; v. 275; p. 885.

Electromagnet, Alternating-current. G. E. Palmer. No. 1,343,404; June 15; v. 275; p. 467.

Electromagnetic-wave navigational system. J. Erskine-Murray and J. Robinson. No. 1,342,257; June 1; v. 275; p. 126.

Electrometallurgical furnace. F. Louvrier. No. 1,342,636; June 8; v. 275; p. 252.

Electromotive device. G. M. Albrecht. No. 1,344,196; June 22; v. 275; p. 688.

Electromotive device. G. M. Albrecht. No. 1,344,197; June 22; v. 275; p. 688.

Elevator: *See*—
Grain-elevator. Portable elevator.

Elevator. T. J. Sturtevant and W. T. Doyle. No. 1,342,470; June 8; v. 275; p. 220.

Elevator lock, Electromagnetic. W. J. Wigmore. No. 1,344,430; June 22; v. 275; p. 734.

Elevator mechanism. J. A. Pickens and W. F. Hester. No. 1,342,596; June 8; v. 275; p. 245.

Elevator safety system. W. T. Dunford. No. 1,344,266; June 22; v. 275; p. 701.

Elevators, Safety antitilting device for. G. B. Davis. No. 1,343,118; June 8; v. 275; p. 349.

Embalming device. C. S. Harrell. No. 1,342,997; June 8; v. 275; p. 325.

Embroidery-machine. A. Berson and E. Scheyer. No. 1,344,611; June 29; v. 275; p. 825.

Engine: *See*—
Combustion-engine. Rotary-engine.
Expansion-engine. Steam-engine.
Gas-engine. Steam-expansion engine.
Internal-combustion engine. Traction-engine.
Two-cycle engine.

Engine. L. A. Born. No. 1,343,612; June 15; v. 275; p. 508.

Engine. J. O. Carrey. No. 1,344,331; June 22; v. 275; p. 715.

Engine. C. C. Clayberg. No. 1,342,498; June 8; v. 275; p. 226.

Engine. J. R. Pflaume. No. 1,343,473; June 15; v. 275; p. 480.

Engine-primer. C. G. Fredrickson. No. 1,343,555; June 15; v. 275; p. 497.

Engine-starter. F. E. Watts. No. 1,342,478; June 8; v. 275; p. 222.

Engine-starting apparatus. J. Bijur. No. 1,343,028; June 8; v. 275; p. 331.

Engine-starting apparatus. J. Bijur. No. 1,343,029; June 8; v. 275; p. 331.

Engine-starting apparatus. J. Bijur. No. 1,343,030; June 8; v. 275; p. 331.

Engine-starting apparatus. L. M. Woolson. No. 1,343,020; June 8; v. 275; p. 329.

Engine-support. N. E. Hildreth. No. 1,341,902; June 1; v. 275; p. 57.

Engine-starting system. J. K. Delano. No. 1,344,870; June 29; v. 275; p. 885.

Engines, Air-temperature regulator for gas-. C. F. Brostrom. No. 1,344,615; June 30; v. 275; p. 836.

Engines, Apparatus for reboring and reaming cylinders of. J. J. Champion and T. B. Martindale. No. 1,343,517; June 15; v. 275; p. 489.

Engines, Apparatus for supplying explosive gas to internal-combustion. P. J. Dasey. No. 1,344,793; June 29; v. 275; p. 871.

Engines, Automatic additional air-valve for combustion-. A. E. Peppercorn. No. 1,343,375; June 15; v. 275; p. 462.

Engines, Auxiliary valve for internal-combustion. J. O. Brock. No. 1,344,614; June 29; v. 275; p. 836.

Engines, Balancing of reciprocating. H. R. Ricardo. No. 1,342,648; June 8; v. 275; p. 254.

Engines, Bed for vertical internal-combustion. H. H. Blache. No. 1,342,939; June 8; v. 275; p. 313.

Engines, Carburetor for gasolene-. C. F. Schulz. (Reissue.) No. 14,880; June 8; v. 275; p. 363.

Engines, Carburetor for internal-combustion. A. Welland. No. 1,345,297; June 29; v. 275; p. 967.

Engines, Circuit-controller for explosive-. R. Varley. No. 1,344,464; June 22; v. 275; p. 741.

Engines, Controlling mechanism for internal-combustion. C. A. Muller. No. 1,343,980; June 22; v. 275; p. 646.

Engines, Cooling arrangement for exhaust-valves of internal-combustion. G. Cattanco. No. 1,343,111; June 8; v. 275; p. 347.

Engines, Crank for light high-speed. E. Labitottière. No. 1,342,683; June 8; v. 275; p. 261.

Engines, Crank-shaft connection for. C. B. and J. T. Dodge. No. 1,341,709; June 1; v. 275; p. 19.

Engines, Cylinder for internal-combustion. H. A. Hall. (Reissue.) No. 14,869; June 1; v. 275; p. 156.

Engines, Cylinder for internal-combustion. E. Schneider. No. 1,343,161; June 8; v. 275; p. 357.

Engines, Deflooder for internal-combustion. F. L. Maytag. No. 1,342,558; June 8; v. 275; p. 238.

Engines, Electric starter for internal-combustion. J. R. Millward. No. 1,341,659; June 1; v. 275; p. 9.

Engines, Electric starter for internal-combustion. J. R. Millward. No. 1,341,660; June 1; v. 275; p. 9.

Engines, Electric vapor-heater for internal-combustion. W. F. Little. No. 1,344,303; June 22; v. 275; p. 709.

Engines, Exhaust-silencer for internal-combustion. W. H. Martin. No. 1,342,340; June 1; v. 275; p. 142.

Engines, Fuel-injection valve for oil-. K. O. Keller. No. 1,341,911; June 1; v. 275; p. 58.

Engines, Fuel-supply for internal-combustion. A. H. Pape. No. 1,344,815; June 29; v. 275; p. 875.

Engines, Fuel-vaporizer for combustion-. C. C. Hedges. No. 1,343,053; June 8; v. 275; p. 336.

Engines, Increasing the power of gas-. G. F. Shaver. No. 1,343,938; June 22; v. 275; p. 638.

Engines, Internal-combustion chamber for. J. Konar. No. 1,342,449; June 8; v. 275; p. 216.

Engines, Lubricating system for internal-combustion. H. H. Blache. No. 1,342,273; June 1; v. 275; p. 130.

Engines, Lubricating system for steam-. R. Watres. No. 1,342,077; June 1; v. 275; p. 91.

Engines, Means for applying electric motors to winding-. A. Palmros. No. 1,342,757; June 8; v. 275; p. 277.

Engines, Means for cooling the pistons of internal-combustion. W. Schmidt. No. 1,344,090; June 22; v. 275; p. 667.

Engines, Means for heating the charges in internal-combustion. H. R. Ricardo. No. 1,342,869; June 8; v. 275; p. 299.

Engines, Mixing device for internal-combustion. L. O. Miller. No. 1,344,706; June 29; v. 275; p. 853.

Engines, Muffler for explosive-. E. E. Wickersham. No. 1,344,367; June 22; v. 275; p. 722.

Engines, Oil-filtering attachment for internal-combustion. R. F. Brown. No. 1,344,982; June 29; v. 275; p. 905.

Engines, Operating internal-combustion. D. L. Winters. No. 1,342,656; June 8; v. 275; p. 256.

Engines, Piston for gas-. H. Pilling. No. 1,345,233; June 29; v. 275; p. 954.

Engines, Priming device for gasolene-. R. O. McAssey. No. 1,344,805; June 29; v. 275; p. 873.

Engines, Priming means for internal-combustion. T. F. Bourne. No. 1,343,547; June 15; v. 275; p. 496.

Engines, Spark control and governor for internal-combustion. H. L. Thompson. No. 1,343,943; June 22; v. 275; p. 639.

Engines, Starting device for internal-combustion. C. G. T. Thelin. No. 1,344,739; June 29; v. 275; p. 860.

Engines, Starter for internal-combustion. J. R. Millward. No. 1,341,658; June 1; v. 275; p. 9.

Engines, Starting-valve for combustion-. J. Müller. No. 1,343,226; June 15; v. 275; p. 434.

Engines, Valve-gear for internal-combustion. N. J. Le Grande. No. 1,345,094; June 29; v. 275; p. 927.

Engines, Valve-gear for reciprocating steam-. H. Pilling. No. 1,345,232; June 29; v. 275; p. 954.

Engines, Water-cooled working-cylinder for internal-combustion. F. A. Lagersten. No. 1,342,633; June 8; v. 275; p. 251.

Engines, Water-valve for carbureters and vaporizers of internal-combustion. J. A. Torrens. No. 1,343,488; June 15; v. 275; p. 483.

Envelop. C. L. Benedict. No. 1,343,075; June 8; v. 275; p. 340.

Envelop. G. A. Hoffman. No. 1,344,394; June 22; v. 275; p. 727.

Envelop. E. L. Webster. No. 1,344,071; June 22; v. 275; p. 664.

Envelop-machine. H. Levine. No. 1,343,146; June 8; v. 275; p. 354.

Envelop-sealer. A. Bevan. No. 1,344,375; June 22; v. 275; p. 723.

Envelops, Making window-. W. Langguth. No. 1,341,807; June 1; v. 275; p. 39.

Equalizer. N. Croonholm. No. 1,344,334; June 22; v. 275; p. 715.

Erecting-machine. C. G. Hastings. No. 1,342,503; June 8; v. 275; p. 227.

Etching-machine. W. S. Eaton. No. 1,341,739; June 1; v. 275; p. 25.

Etching-machine. W. F. Nicholas. No. 1,345,219; June 29; v. 275; p. 951.

Excavator. E. D. Callen. No. 1,342,895; June 8; v. 275; p. 305.

Excavator. J. J. Warren. No. 1,345,296; June 29; v. 275; p. 967.

Exercising apparatus. H. M. Ruden. No. 1,344,963; June 29; v. 275; p. 902.

Exhibitor. W. S. Skelton. No. 1,343,646; June 15; v. 275; p. 515.

Exhibitor, Changeable. A. Lo Casto. No. 1,344,642; June 29; v. 275; p. 841.

Expansion-bolt. W. C. Beckwith. No. 1,342,201; June 1; v. 275; p. 116.

Expansion connection. F. Sargent. No. 1,342,133; June 1; v. 275; p. 102.

Expansion-engine. A. V. Larson. No. 1,343,056; June 8; v. 275; p. 336.

Expansible washer. L. D. Lovekin. No. 1,344,417; June 22; v. 275; p. 731.

Explosions, Device for registering. A. D. Reese. No. 1,343,875; June 15; v. 275; p. 562.

Explosive, Ammonium-nitrate. J. B. Bronstein and C. E. Waller. No. 1,343,077; June 8; v. 275; p. 341.

Explosive, Ammonium-nitrate. W. O. Snelling. No. 1,343,063; June 8; v. 275; p. 338.

Exposure-indicator. J. D. Ferry. No. 1,344,873; June 29; v. 275; p. 885.

Extension-table. C. R. Wennerstrom. No. 1,342,481; June 8; v. 275; p. 222.

Extractor: *See*—
Flue-extractor. Lemon-juice extractor.

Eyeglass-mounting. C. M. Haynes. No. 1,342,808; June 8; v. 275; p. 288.

Eyeglass or spectacle frames, Hinge for. E. E. Shreiner. No. 1,342,973; June 8; v. 275; p. 320.

Eyeleting-machine. F. A. Rumney. No. 1,341,763; June 1; v. 275; p. 30.

Fabric: *See*—
Heat-insulating fabric. Pile fabric.

Fabric-cutting device. G. C. Hosch. No. 1,343,722; June 15; v. 275; p. 530.

Fabric-frame. A. B. Simon. No. 1,345,030; June 29; v. 275; p. 915.

Fabric, Treating. E. E. A. G. Meyer. No. 1,344,645; June 29; v. 275; p. 842.

Fabrics, Machine for laying. H. I. Rosenblum. No. 1,343,339; June 15; v. 275; p. 454.

Fabric, Method and product for dyeing textile. J. W. Fries. No. 1,341,637; June 1; v. 275; p. 5.

Fabrics, Machine for treating cut pile. D. H. Stoud. No. 1,344,777; June 29; v. 275; p. 868.

Fabrics, Method and means for treating light-weight. W. Bancroft. No. 1,342,935; June 8; v. 275; p. 313.

Face-plate for flush receptacles. G. B. Thomas. No. 1,342,237; June 1; v. 275; p. 123.

Fan, Automobile-. L. Willour. No. 1,345,055; June 29; v. 275; p. 919.

Fan, Centrifugal. A. A. Criqui. No. 1,341,882; June 1; v. 275; p. 53.

Fan, propeller. C. M. Lee. No. 1,341,653; June 1; v. 275; p. 8.

Fare box and register, Coin and ticket. J. M. Johnson. No. 1,344,898; June 29; v. 275; p. 890.

Fare collecting and registering means. A. H. Woodward. No. 1,344,842; June 29; v. 275; p. 880.

Farm-gate. G. W. and C. E. Goss. No. 1,343,559; June 15; v. 275; p. 498.

Farm-gate. T. Huston. No. 1,341,905; June 1; v. 275; p. 57.

Fastener. G. M. Bills. No. 1,343,301; June 15; v. 275; p. 447.

Fastener. J. P. Burke. No. 1,342,738; June 8; v. 275; p. 272.

Faucet attachment. M. I. Schamberg. No. 1,341,200; June 1; v. 275; p. 75.

Faucet, Measuring-. C. T. Joslin. No. 1,342,173; June 1; v. 275; p. 110.

Faucet, Sanitary drinking-. A. G. Haws. No. 1,344,948; June 29; v. 275; p. 900.

Faucets, spigots, or the like with fluid-receivers, hose, or other conductors of fluids, Coupling for. A. Papini. No. 1,343,228; June 15; v. 275; p. 434.

Feed-box. R. R. Sickler. No. 1,344,094; June 22; v. 275; p. 668.

Feed-changing mechanism. E. C. Head. No. 1,343,132; June 8; v. 275; p. 351.

Feed device, Automatic. W. K. Edgar. No. 1,344,492; June 22; v. 275; p. 747.

Feed, Shredding and blending mechanism for. R. A. Stubbs. No. 1,344,832; June 29; v. 275; p. 878.
Feed-water heater. K. Baumann. No. 1,342,841; June 8; v. 275; p. 294.
Feeder, Automatic-supply hog-. R. O. Dohm. No. 1,341,887; June 1; v. 275; p. 54.
Feeder, Chick-. F. R. Shoultz. No. 1,343,093; June 8; v. 275; p. 344.
Feeder, Disk-. F. D. Stowe. No. 1,342,189; June 1; v. 275; p. 113.
Feeder, Poultry-. Z. Cholnere. No. 1,344,987; June 29; v. 275; p. 906.
Feeder, Pulverized-fuel. L. S. Schmidt. No. 1,342,135; June 1; v. 275; p. 103.
Feeding device. F. B. Gilbert. No. 1,343,817; June 15; v. 275; p. 549.
Fence-panel. J. Manelich; No. 1,342,453; June 8; v. 275; p. 217.
Fence stay, Wire-. J. E. Eaton. No. 1,343,770; June 15; v. 275; p. 540.
Fence stretcher, Wire-. R. H. Patterson. No. 1,344,312; June 22; v. 275; p. 711.
Fencepost. C. B. Baumgartner. No. 1,343,543; June 15; v. 275; p. 495.
Fencepost. C. B. Baumgartner. No. 1,343,544; June 15; v. 275; p. 495.
Fender: *See*—
Car-fender.
Fender. F. M. McDonald. No. 1,342,402; June 1; v. 275; p. 153.
Ferrochrome, Production of low-carbon. H. C. Sicard. No. 1,341,939; June 1; v. 275; p. 64.
Fertilizer-distributor. E. G. Perry. No. 1,342,296; June 1; v. 275; p. 134.
Fertilizer from potash-bearing minerals and lime, Producing lime-potash. R. De Luce. No. 1,345,077; June 29; v. 275; p. 924.
Fiber from palms, Machine for extracting. H. H. Holdaway. No. 1,342,714; June 8; v. 275; p. 268.
Fiber-treating machine. H. M. Dudley. No. 1,344,122; June 22; v. 275; p. 673.
Fibrous substances, Retting. E. L. Rinman. No. 1,344,719; June 29; v. 275; p. 856.
Figure, Jointed. D. S. Williams. No. 1,345,052; June 29; v. 275; p. 919.
Filling-detector mechanism. C. H. Draper and J. Northrop. No. 1,342,710; June 8; v. 275; p. 267.
Film-pack. L. E. Snyder. No. 1,343,590; June 15; v. 275; p. 504.
Film-reel. C. F. Jenkins. No. 1,343,628; June 15; v. 275; p. 511.
Filter. E. F. Atkins. No. 1,342,839; June 8; v. 275; p. 294.
Filter. E. J. Sweetland. No. 1,343,182; June 8; v. 275; p. 361.
Filter. E. J. Sweetland. No. 1,344,215; June 22; v. 275; p. 691.
Filter-press. H. T. Shriver. No. 1,342,829; June 8; v. 275; p. 292.
Filter, water-cooler, humidifying apparatus and the like, Wet. A. B. Cleworth. No. 1,345,131; June 29; v. 275; p. 934.
Finished surface for articles of manufacture. J. R. McClain. No. 1,343,216; June 15; v. 275; p. 432.
Finishing-machine. J. F. Standish. No. 1,343,379; June 15; v. 275; p. 463.
Fire-alarm, Automatic. S. O. Abrahamsen. No. 1,344,471; June 22; v. 275; p. 742.
Fire-alarm, Automatic. W. J. Luse. No. 1,344,701; June 29; v. 275; p. 852.
Fire-bucket. W. R. Myers. No. 1,344,557; June 22; v. 275; p. 759.
Fire-door-closing apparatus. L. S. Akers. No. 1,343,757; June 15; v. 275; p. 537.
Fire-escape. C. H. Pray. No. 1,343,642; June 15; v. 275; p. 514.
Fire-extinguisher and gas-well capper. A. W. Moore. No. 1,345,214; June 29; v. 275; p. 950.
Fire-extinguisher, Chemical. K. Schmidt. No. 1,342,768; June 8; v. 275; p. 279.
Fire-extinguisher, Hand-operated. C. L. Bastian. No. 1,342,580; June 8; v. 275; p. 242.
Fire-extinguishing apparatus and control device therefor, Chemical. J. R. Hamilton. No. 1,343,364; June 15; v. 275; p. 459.
Fire, Gas-. C. Scott-Snell. No. 1,343,484; June 15; v. 275; p. 483.
Fire-hose support. J. H. Stillwaggon. No. 1,344,736; June 29; v. 275; p. 859.
Fire-indicating system, Marine. W. H. Freygang, W. Kidde, and B. G. Worth. No. 1,343,911; June 22; v. 275; p. 633.
Fire, Method and apparatus for preventing the spread of. E. E. Free. No. 1,344,630; June 29; v. 275; p. 839.
Firearm. G. M. Formby. No. 1,343,444; June 15; v. 275; p. 475.
Firearm. E. E. Redfield. No. 1,343,583; June 15; v. 275; p. 503.
Firearm, Automatic. H. W. Gabbett-Fairfax. No. 1,344,499; June 22; v. 275; p. 748.
Firearm-sighting device. G. A. Bader. No. 1,344,973; June 29; v. 275; p. 904.
Firearms, Breech-action for. I. N. Lewis. No. 1,344,911; June 29; v. 275; p. 893.
Firearms, Flash and recoil reducer for. F. W. Young. No. 1,342,978; June 8; v. 275; p. 321.
Firearms, Sight for. J. E. Kraft. No. 1,344,639; June 29; v. 275; p. 841.
Fireproof elevator-door. B. Wexler. No. 1,342,482; June 8; v. 275; p. 223.
Fish, Apparatus for smoking. J. W. Marr. No. 1,345,005; June 29; v. 275; p. 927.
Fish, Smoking and drying apparatus for. T. G. Norland. No. 1,344,350; June 22; v. 275; p. 718.
Fish-stringer. A. N. Putney. No. 1,341,722; June 1; v. 275; p. 21.
Fishing-reel. F. M. Case. No. 1,344,289; June 22; v. 275; p. 706.
Fishing-reel. F. M. Case. No. 1,345,072; June 29; v. 275; p. 923.
Flagstaff. C. A. Keeley. No. 1,343,140; June 8; v. 275; p. 353.
Flash-light. F. D. Boulanger. No. 1,342,322; June 1; v. 275; p. 138.
Flash-light holder. T. A. Williams. No. 1,344,073; June 22; v. 275; p. 664.
Flash-light-testing apparatus. G. A. Ley. No. 1,345,201; June 29; v. 275; p. 948.
Flatiron-rest. C. V. Wilson. No. 1,343,699; June 15; v. 275; p. 526.
Flexible coupling. W. J. Francke. No. 1,343,121; June 8; v. 275; p. 349.
Flexible coupling. J. C. Sheler and R. B. Austin. No. 1,342,300; June 1; v. 275; p. 135.
Flexible joint. H. R. Stafford. No. 1,345,334; June 29; v. 275; p. 974.
Floor construction. C. W. Stevens. No. 1,343,234; June 15; v. 275; p. 435.
Floor-lifting device. R. W. Williams. No. 1,343,862; June 15; v. 275; p. 559.
Floor or ceiling plate. A. J. Beaton. No. 1,344,219; June 22; v. 275; p. 692.
Floor structure. I. W. Mason. No. 1,344,181; June 22; v. 275; p. 685.
Floor-waxing device. E. E. Moline. No. 1,343,223; June 15; v. 275; p. 433.
Flotation-machine. T. A. Janney. No. 1,342,115; June 1; v. 275; p. 99.
Flour-bins, Sifter for. J. H. Dean. No. 1,342,989; June 8; v. 275; p. 323.
Flour-mill. J. H. Rousseau and A. Coté. No. 1,344,453; June 22; v. 275; p. 739.
Flower-holder. M. G. Tilney. No. 1,344,526; June 22; v. 275; p. 754.
Flower-pot support. F. Leitch. No. 1,343,568; June 15; v. 275; p. 500.
Flue-dust, Recovery of solubles from. R. B. Stringfield. No. 1,345,034; June 29; v. 275; p. 916.
Flue-extractor. P. M. Canty. No. 1,343,431; June 15; v. 275; p. 473.
Flue-pan. T. A. Legg. No. 1,342,918; June 8; v. 275; p. 309.
Flue-support. C. D. Reynolds. No. 1,343,279; June 15; v. 275; p. 443.
Fluid, Method of and apparatus for compressing. R. Szczek. No. 1,344,967; June 29; v. 275; p. 903.
Fluid-pressure brake. W. V. Turner. No. 1,343,694; June 15; v. 275; p. 525.
Fluid-pressure coupling. S. A. Rousseau. No. 1,343,852; June 15; v. 275; p. 556.
Flute, Mouth-. F. A. Morley. No. 1,341,860; June 1; v. 275; p. 49.
Fly-swatter. B. O. Graham. No. 1,344,943; June 29; v. 275; p. 899.
Flying-machine. M. Fedders. No. 1,344,297; June 22; v. 275; p. 708.
Flying-machine. J. H. Freeman. No. 1,345,159; June 29; v. 275; p. 940.
Flying-machine. J. W. Webb. No. 1,344,283; June 22; v. 275; p. 705.
Flying-machines, Landing-gear for. M. F. Stupar. No. 1,342,138; June 1; v. 275; p. 103.
Flytrap. A. R. Anderson. No. 1,342,933; June 8; v. 275; p. 312.
Folding chair. M. Schlegel. No. 1,342,650; June 8; v. 275; p. 255.
Folding-machines, Sheet-guide for. E. Scheick. No. 1,343,791; June 15; v. 275; p. 544.
Food preparation and making same. A. Schwarcman. No. 1,342,827; June 8; v. 275; p. 291.
Food product and making same. F. E. Kinsman. No. 1,344,638; June 29; v. 275; p. 841.
Foot-mat, Metallic. J. S. Doe. No. 1,343,356; June 15; v. 275; p. 458.
Foot-throttle controlling mechanism. F. C. Smith. No. 1,343,378; June 15; v. 275; p. 462.
Foot-treating appliance. H. A. Post. No. 1,342,597; June 8; v. 275; p. 245.
Footrest. J. Dunlap. No. 1,343,119; June 8; v. 275; p. 349.
Footrest. A. M. Hunter. No. 1,344,402; June 22; v. 275; p. 728.
Footwear, Last for. R. B. Price. No. 1,342,970; June 8; v. 275; p. 319.
Fork. H. E. Denman. No. 1,343,811; June 15; v. 275; p. 548.
Form, Collapsible culvert-. G. W. Storms. No. 1,344,775; June 29; v. 275; p. 867.

Form, Milliner's steaming-. M. L. Argo. No. 1,342,147; June 1; v. 275; p. 105.
Fountain: *See*—
Hog-watering fountain.
Fountain and feeder, Stock and poultry. S. Caspe. No. 1,343,349; June 15; v. 275; p. 457.
Fountain-pen cleaner. C. W. Garver. No. 1,343,621; June 15; v. 275; p. 510.
Fountains, Mixing apparatus for soda-. D. S. Kepler. No. 1,343,829; June 15; v. 275; p. 552.
Frame: *See*—
Fabric-frame.
Hat-frame.
Mop-frame.
Ophthalmic-lens frame.
Picture-frame.
Vehicle-frame.
Wagon-frame.
Friction and flexing apparatus for testing materials. A. E. Jury. No. 1,344,301; June 22; v. 275; p. 709.
Friction-support for lids. I. F. Burton. No. 1,343,347; June 15; v. 275; p. 456.
Fruit according to size, Machine for assorting. E. S. Porter. No. 1,342,571; June 8; v. 275; p. 241.
Fruit and vegetable pulping machine. J. R. Dostal. No. 1,343,439; June 15; v. 275; p. 474.
Fruit-cutter. D. H. Elmer. No. 1,342,207; June 1; v. 275; p. 117.
Fruit-jars, Immerser for. R. J. Beler. No. 1,342,321; June 1; v. 275; p. 138.
Fruit-peel drier. W. I. Winchester. No. 1,345,301; June 29; v. 275; p. 968.
Fuel and producing same. G. H. Fritzsche. No. 1,342,799; June 8; v. 275; p. 286.
Fuel-economizer. J. P. McMahon. No. 1,342,337; June 1; v. 275; p. 141.
Fuel, Gas-generator and combustion-chamber for pulverized. T. Clouston. No. 1,344,333; June 22; v. 275; p. 715.
Fuel-regulator. D. E. Reeve. (Reissue.) No. 14,894; June 22; v. 275; p. 771.
Fuel-regulator. D. E. Reeve. (Reissue.) No. 14,895; June 22; v. 275; p. 772.
Fuel-reserve tank. J. J. Sullivan. No. 1,344,738; June 29; v. 275; p. 860.
Fuel-reservoir. J. S. Brennan. No. 1,343,343; June 15; v. 275; p. 455.
Fuel with high efficiency, Process and apparatus for burning gaseous. T. J. Stephens. No. 1,343,098; June 8; v. 275; p. 345.
Fuels and light paraffin-oils from shale; and benzene, toluene, and solvent naphtha from coal, Obtaining motor-. E. W. Thurlow. No. 1,343,100; June 8; v. 275; p. 345.
Fuels, Apparatus for firing with pulverized or breeze-formed. C. A. A. Westerberg. No. 1,344,666; June 29; v. 275; p. 846.
Funnel, Automatic self-closing. G. H. Grove. No. 1,343,867; June 15; v. 275; p. 560.
Funnel, Detachable can-. T. Kitaoka. No. 1,344,801; June 29; v. 275; p. 872.
Fur-tumbling apparatus. B. and S. Friedman. No. 1,343,816; June 15; v. 275; p. 549.
Furnace: *See*—
Air-heating furnace.
Annealing-furnace.
Electrometallurgical furnace.
Glass-annealing furnace.
Heating-furnace.
Hardening and annealing furnace.
Smelting-furnace.
Furnace. C. Haner, Jr. No. 1,342,958; June 8; v. 275; p. 317.
Furnace. T. B. Kitson. No. 1,343,457; June 15; v. 275; p. 477.
Furnace. A. C. Osborn, Jr. No. 1,343,470; June 15; v. 275; p. 479.
Furnace. H. E. Smythe. No. 1,344,458; June 22; v. 275; p. 740.
Furnace and extract-boiler, Wood-ash. E. W. Eisenhauer, Jr., L. F. Flormann, and E. C. A. Woltmann. No. 1,341,889; June 1; v. 275; p. 54.
Furnace-charging device. W. E. Moore. No. 1,343,465; June 15; v. 275; p. 479.
Furnace construction. J. W. Gates. No. 1,341,977; June 1; v. 275; p. 71.
Furnace construction. J. W. Gates. No. 1,341,896; June 1; v. 275; p. 55.
Furnace construction. H. B. Holt. No. 1,342,908; June 8; v. 275; p. 307.
Furnace floor-bar. R. C. Drinker. No. 1,342,041; June 1; v. 275; p. 84.
Furnace for welding castings, Preheating-. A. E. Hauck. No. 1,344,690; June 29; v. 275; p. 850.
Furnace-joint. J. Farris. No. 1,342,258; June 1; v. 275; p. 127.
Furnace-grate. J. A. Packard. No. 1,344,144; June 22; v. 275; p. 678.
Furnace rail-block. G. J. Rennie. No. 1,341,928; June 1; v. 275; p. 62.
Furnace-wall. D. S. Jacobus. No. 1,341,645; June 1; v. 275; p. 6.
Furnaces, Draft-damper mechanism for. H. Vick. No. 1,341,868; June 1; v. 275; p. 50.
Furnaces, Port construction for metallurgical. G. F. Downs and H. F. Miller, Jr. No. 1,343,314; June 15; v. 275; p. 349.
Furnaces, Port construction for metallurgical. G. F. Downs and H. F. Miller, Jr. No. 1,343,315; June 15; v. 275; p. 450.
Furnaces, Producing cement of liquid slags in electric. K. G. Wennerström. No. 1,343,948; June 22; v. 275; p. 640.
Furnaces, with apparatus intended therefor, Method for the heating of material or the performance of chemical processes in electrical. T. A. F. Holmgren and C. T. Thorsseli. No. 1,342,809; June 8; v. 275; p. 288.
Furniture, Article of. J. H. Phillips. No. 1,344,277; June 22; v. 275; p. 704.
Furniture-bracket. S. Jones. No. 1,345,011; June 29; v. 275; p. 911.
Furniture, Center-slot steel. J. A. Rutherford. No. 1,342,030; June 1; v. 275; p. 82.
Furniture, Wheel-bearing for. R. J. Ehlers. No. 1,342,279; June 1; v. 275; p. 131.
Fuse. F. A. Sullivan and W. L. Lukins. No. 1,342,652; June 8; v. 275; p. 255.
Fuse, Delay-action. F. D. Sprague and P. W. Allison. No. 1,345,415; June 15; v. 275; p. 469.
Fuse, Detonating-. W. C. Cope. No. 1,341,705; June 1; v. 275; p. 18.
Fuse for explosive shells or bombs, Time-. H. Austin. No. 1,342,413; June 8; v. 275; p. 299.
Fuse, Plug-. A. L. Eustice. No. 1,344,296; June 22; v. 275; p. 708.
Fuse-plug. W. G. Stoeser. No. 1,344,359; June 22; v. 275; p. 720.
Fuse, Refillable electric. W. F. Muller. No. 1,341,662; June 1; v. 275; p. 9.
Fuses, Apparatus for setting time-. E. Schneider. No. 1,345,588; June 15; v. 275; p. 503.
Gage: *See*—
Drill and wire gage.
Lawn-edge-trimming gage.
Pressure-gage.
Sewing-machine gage.
Sheet-gage.
Gage. C. M. Gearing. No. 1,341,978; June 1; v. 275; p. 71.
Gage. W. L. Riedy. No. 1,345,243; June 29; v. 275; p. 956.
Gage. J. Switzer. No. 1,344,569; June 22; v. 275; p. 762.
Gage or gate mechanism. A. Broadmeyer. No. 1,344,167; June 22; v. 275; p. 682.
Galvanizing-furnace. C. A. Porath. No. 1,343,843; June 15; v. 275; p. 555.
Gambrel, Adjustable. W. A. Andrew. No. 1,345,112; June 29; v. 275; p. 930.
Game. G. E. Bruner. No. 1,344,983; June 29; v. 275; p. 906.
Game. V. Niewaleski. No. 1,343,838; June 15; v. 275; p. 554.
Game apparatus. G. W. Anderson. No. 1,342,884; June 8; v. 275; p. 303.
Game apparatus. A. Strasburger. No. 1,345,277; June 29; v. 175; p. 963.
Game apparatus. B. Zerenga. No. 1,344,669; June 29; v. 275; p. 847.
Game apparatus, Race-. R. M. Brenner. No. 1,344,480; June 22; v. 275; p. 744.
Game-board, Pocket. J. H. Ramsay. No. 1,343,984; June 22; v. 275; p. 647.
Garden-cultivator. H. W. Morgan. No. 1,342,642; June 8; v. 275; p. 253.
Garment. A. Nogar. No. 1,345,223; June 29; v. 275; p. 952.
Garment-hanger. D. Goldsmith. No. 1,344,391; June 22; v. 275; p. 726.
Garment-hanger. J. and A. Jacobs. No. 1,344,697; June 29; v. 275; p. 852.
Garment-hanger. F. P. Johnson. No. 1,342,265; June 1; v. 275; p. 128.
Garment-hanger. W. A. McGinnis. No. 1,345,017; June 29; v. 275; p. 912.
Garment-hanger. R. H. Variele. No. 1,341,827; June 1; v. 275; p. 42.
Garment, Inflatable. K. Michalovsky. No. 1,342,054; June 1; v. 275; p. 86.
Garment-protector. R. G. Tuck. No. 1,343,166; June 8; v. 275; p. 358.
Garment support and stretcher. M. Leth. No. 1,343,397; June 15; v. 275; p. 466.
Garment-supporter. G. R. Bonebright. No. 1,344,856; June 29; v. 275; p. 882.
Garment-turning machines, Attachment for. W. A. Barnett. No. 1,342,937; June 8; v. 275; p. 313.
Gas-analyzer, Automatic. S. S. Weeks. No. 1,345,047; June 29; v. 275; p. 918.
Gas-burner. J. H. Ackroyd. No. 1,343,709; June 15; v. 275; p. 526.
Gas-burner. W. J. Barber. No. 1,342,617; June 8; v. 275; p. 248.
Gas-burner. J. A. Fry. No. 1,342,436; June 8; v. 275; p. 214.
Gas-conduits, Apparatus for automatically opening and closing. G. Dalén. No. 1,342,160; June 1; v. 275; p. 108.
Gas-engine. G. L. Meyer. No. 1,342,922; June 8; v. 275; p. 310.
Gas-engine. C. P. Skublin. No. 1,345,266; June 29; v. 275; p. 961.
Gas-engine. H. L. Thompson. No. 1,342,977; June 8; v. 275; p. 320.
Gas-generator. G. H. Bentley and E. G. Appleby. No. 1,343,995; June 22; v. 275; p. 649.

Gas-heated boiler. T. M. Mayer. No. 1,342,342; June 1; v. 275; p. 142.
Gas-heater. L. Lebau. No. 1,342,121; June 1; v. 275; p. 100.
Gas-heater. C. M. Mogni. No. 1,344,555; June 22; v. 275; p. 759.
Gas-meter. J. R. Armstrong. No. 1,342,886; June 8; v. 275; p. 303.
Gas-meter mechanism. S. J. Pocock. No. 1,344,714; June 29; v. 275; p. 855.
Gas or vapor heater. L. P. Lowe. (Reissue.) No. 14,903; June 29; v. 275; p. 975.
Gas-tap-locking device. J. and G. Martin. No. 1,344,704; June 29; v. 275; p. 853.
Gases, Apparatus for cleaning. G. W. Hewitt and A. Stelnbart. No. 1,344,585; June 22; v. 275; p. 765.
Gases, Apparatus for separating suspended particles from. W. A. Schmidt and G. C. Roberts. No. 1,343,482; June 15; v. 275; p. 482.
Gases, Apparatus for the electrical treatment of. H. W. Squires. No. 1,342,651; June 8; v. 275; p. 255.
Gases, Means for separating suspended matter from. W. A. Schmidt. No. 1,343,285; June 15; v. 275; p. 444.
Gases, Method of and apparatus for analyzing. C. W. Heath. No. 1,342,539; June 8; v. 275; p. 234.
Gases, Treating liquids with. W. E. Greenawalt. No. 1,344,031; June 22; v. 275; p. 656.
Gasket for inflation-tube connections. A. A. Ewald. No. 1,344,028; June 22; v. 275; p. 655.
Gasolene-dispensing apparatus. L. M. Kavanagh. No. 1,344,949; June 29; v. 275; p. 900.
Gasolene-dispensing device. J. Black. No. 1,344,478; June 22; v. 275; p. 744.
Gate: *See*—
Automatic gate. Sag-gate.
Farm-gate. Swinging gate.
Railway-gate. Wagon end-gate.
Gate. D. Jordan. No. 1,343,367; June 15; v. 275; p. 460.
Gate and clip therefor, Scoop-. O. K. Grove. No. 1,343,263; June 15; v. 275; p. 440.
Gate-hanger. W. H. Raley. No. 1,342,227; June 1; v. 275; p. 121.
Gear. J. F. Franklin. No. 1,343,047; June 8; v. 275; p. 334.
Gear, Bevel-. R. E. Talley. No. 1,341,685; June 1; v. 275; p. 14.
Gear-coupling. P. Bossu. No. 1,343,031; June 8; v. 275; p. 331.
Gear-cutting machine. J. C. Kopf. No. 1,343,396; June 15; v. 275; p. 466.
Gear-cutting machine. H. J. Schmick. No. 1,345,028; June 29; v. 275; p. 914.
Gear-cutting machine. J. E. Gleason, A. L. Stewart, and E. C. Head. No. 1,344,879; June 29; v. 275; p. 887.
Gear, Draft-. H. F. Woernley. No. 1,343,295; June 15; v. 275; p. 446.
Gear, Draft-. H. F. Woernley. No. 1,343,296; June 15; v. 275; p. 446.
Gear-puller. J. E. Crim and H. E. Brower. No. 1,343,661; June 15; v. 275; p. 518.
Gear, Speed-change. G. E. Medley. No. 1,342,920; June 8; v. 275; p. 309.
Gear wheel, Spiral-cut. B. Ljunström. No. 1,343,923; June 22; v. 275; p. 636.
Gears, Machine for and method of cutting. H. C. Walter. No. 1,341,953; June 1; v. 275; p. 67.
Gearing. A. M. Alexander. No. 1,343,189; June 15; v. 275; p. 427.
Gearing. A. H. Leipert and A. G. Herreshoff. No. 1,342,175; June 1; v. 275; p. 111.
Gearing, Motor-driven. W. J. Georgeson. No. 1,342,262; June 1; v. 275; p. 127.
Gearing, Shaft-hanger. C. N. Cady. No. 1,344,439; June 22; v. 275; p. 736.
Gearing, Transmission-. P. C. Day. No. 1,343,963; June 22; v. 275; p. 643.
Gearing, Variable-speed-transmission. W. C. Stevens. No. 1,344,319; June 22; v. 275; p. 712.
Generator: *See*—
Gas-generator.
Generator set. R. S. Bolger. No. 1,343,494; June 15; v. 275; p. 485.
Geometric figure. E. T. Miller. No. 1,344,053; June 22; v. 275; p. 661.
Germicide and insecticide. L. Cheeseman. No. 1,343,034; June 8; v. 275; p. 332.
Girder. W. S. Hutchinson. No. 1,344,229; June 22; v. 275; p. 694.
Glass and making same, Reinforced. L. F. Mascart. No. 1,342,267; June 1; v. 275; p. 129.
Glass-annealing furnace. M. A. Smith. No. 1,342,233; June 1; v. 275; p. 122.
Glass, Apparatus for making sheet-. J. C. Crowley. No. 1,342,533; June 8; v. 275; p. 233.
Glass bodies, Machine for making hollow. G. A. Lelman. No. 1,342,821; June 8; v. 275; p. 290.
Glass casket. G. H. Mellon. No. 1,345,210; June 29; v. 275; p. 950.
Glass, Casting-table for plate-. F. E. Troutman. No. 1,342,014; June 8; v. 275; p. 328.
Glass cylinders, Drawing. W. Westbury. No. 1,344,325; June 22; v. 275; p. 713.
Glass-discharging device. S. L. Sears. No. 1,343,183; June 8; v. 275; p. 361.
Glass-drawing apparatus. J. H. Allan. No. 1,342,080; June 1; v. 275; p. 91.
Glass-drawing apparatus. A. E. Spinasse. No. 1,343,186; June 8; v. 275; p. 361.
Glass from furnaces, Removing. E. T. Ferngren. No. 1,342,042; June 1; v. 275; p. 84.
Glass-grinding machinery, Sand-grading apparatus for. J. Willis. No. 1,342,038; June 1; v. 275; p. 83.
Glass-grinding machines, Apparatus for supplying and grading abrasives to. J. W. Cruikshank. No. 1,343,710; June 15; v. 275; p. 528.
Glass-grinding machines, Supplying and grading sand to. J. W. Cruikshank. No. 1,343,711; June 15; v. 275; p. 528.
Glass holder, Reading-. J. T. Spradling. No. 1,345,272; June 29; v. 275; p. 962.
Glass, Ladling. H. F. Hitner. No. 1,342,960; June 8; v. 275; p. 317.
Glass, Laminated. M. W. Gleason. No. 1,342,282; June 1; v. 275; p. 131.
Glass-machines, Pressing-plunger mechanism for. W. J. Miller. No. 1,342,056; June 1; v. 275; p. 87.
Glass, Manufacture of reinforced. L. F. Mascart. No. 1,342,268; June 1; v. 275; p. 129.
Glass, Manufacturing ruby. M. Meth. No. 1,344,141; June 22; v. 275; p. 677.
Glass-pressing machine. F. W. Stewart. No. 1,343,987; June 22; v. 275; p. 647.
Glass with colored figures in the glass mass, Manufacturing decorated articles of. A. Ahlin. No. 1,343,806; June 15; v. 275; p. 547.
Glasses, Closure for jelly-. T. L. Taliaferro. No. 1,343,013; June 8; v. 275; p. 328.
Glassware-forming mechanism. G. P. MacNichol. No. 1,343,179; June 8; v. 275; p. 360.
Glazier's-point setter. J. R. Holy. No. 1,342,110; June 1; v. 275; p. 98.
Glazier's strip or point. H. A. Balley. No. 1,344,610; June 29; v. 275; p. 835.
Glazing compounds, Device for applying. H. B. and O. C. Sabin. No. 1,343,408; June 15; v. 275; p. 468.
Glazing-machine. S. A. Kost and W. Yneger. No. 1,342,450; June 8; v. 275; p. 216.
Globe, Demonstration-. M. Manson. No. 1,343,181; June 8; v. 275; p. 361.
Golf-club. T. H. Grant. No. 1,343,998; June 22; v. 275; p. 650.
Gong, Motor-. J. R. Hamilton. No. 1,343,365; June 15; v. 275; p. 460.
Gopher-trap. A. Maron. No. 1,344,807; June 29; v. 275; p. 873.
Governor. B. E. Cederstrom. No. 1,343,389; June 15; v. 275; p. 465.
Governor, Automatic. F. J. Brumme. No. 1,343,808; June 15; v. 275; p. 548.
Governor, Foot-controlled electric. H. D. Flegel. No. 1,345,080; June 29; v. 275; p. 924.
Governor, Proportional. J. T. Wilkin. No. 1,341,696; June 1; v. 275; p. 16.
Grain cleaner, separator, and drier. W. A. Pettys. No. 1,345,230; June 29; v. 275; p. 953.
Grain-elevator. J. H. A. Brahtz. No. 1,342,418; June 8; v. 275; p. 210.
Grain-pickler. A. E. Rockola. No. 1,344,148; June 22; v. 275; p. 678.
Grain-scouring machine. E. H. Stapp. No. 1,345,273; June 29; v. 275; p. 962.
Grain-separator. N. G. Ek. No. 1,341,791; June 1; v. 275; p. 35.
Grain-shocking machine. A. McDonald. No. 1,344,348; June 22; v. 275; p. 718.
Grain-sieve. N. G. Ek. No. 1,341,792; June 1; v. 275; p. 36.
Gramophone-drive. F. Myers. No. 1,343,640; June 15; v. 275; p. 514.
Grate. W. J. Ratekin. No. 1,344,062; June 22; v. 275; p. 662.
Grate for automatic stoking, Rotating. J. Moe. No. 1,342,026; June 1; v. 275; p. 81.
Grate, Gas-kindling. S. Grotkowski. No. 1,344,341; June 22; v. 275; p. 716.
Gravel, Apparatus for screening and washing. R. W. Dull. No. 1,342,990; June 8; v. 275; p. 323.
Grease-cup filler. F. K. Lawrence. No. 1,341,652; June 1; v. 275; p. 7.
Grenade. K. H. Smith. No. 1,344,733; June 29; v. 275; p. 859.
Griddle. E. W. Howe. No. 1,342,444; June 8; v. 275; p. 215.
Grinder. C. Jackson. No. 1,344,133; June 22; v. 275; p. 676.
Grinding-machine. O. Onsrud. No. 1,341,818; June 1; v. 275; p. 40.
Grinding machine, Toric-lens-. R. H. and R. J. Beck. No. 1,343,492; June 15; v. 275; p. 484.
Grinding machines, Generating formers for contour-. B. M. W. Hanson. No. 1,341,800; June 1; v. 275; p. 37.
Gripper mechanism. C. F. Pym. No. 1,344,316; June 22; v. 275; p. 712.
Grooves, Machine for forming. W. F. Fischer. No. 1,343,554; June 15; v. 275; p. 497.
Grounding device. C. W. Pen Dell. No. 1,342,645; June 8; v. 275; p. 254.

Guitars, Steel for. M. Neft. No. 1,342,718; June 8; v. 275; p. 269.
Gun-carriage. P. E. Holt. No. 1,344,397; June 22; v. 275; p. 727.
Gun-carriage. E. Rimailho. No. 1,345,245; June 29; v. 275; p. 956.
Gun-carriage. E. Rimailho. No. 1,345,246; June 29; v. 275; p. 956.
Gun-carriages and other vehicles, Removable tire for the wheels of. E. Schneider. No. 1,343,936; June 22; v. 275; p. 638.
Gun-control. S. M. Thompson. No. 1,342,475; June 8; v. 275; p. 221.
Gun, Machine-. O. O. Storie. No. 1,342,358; June 1; v. 275; p. 145.
Gun positions, Locating enemy-. R. A. Fessenden. No. 1,341,795; June 1; v. 275; p. 36.
Gun, Spray-. A. B. Hull. No. 1,343,780; June 15; v. 275; p. 542.
Gun, Trap-. G. H. Thompson. No. 1,343,066; June 8; v. 275; p. 338.
Guns, Construction of links for ammunition-belts for machine-. W. de C. Prideaux. No. 1,343,060; June 8; v. 275; p. 337.
Guns, Electric sight-controlling mechanism for anti-aircraft. R. V. Morse. No. 1,343,003; June 8; v. 275; p. 326.
Gyroscopic navigational apparatus. H. L. Tanner. No. 1,343,188; June 8; v. 275; p. 362.
Hair-clipper. E. S. Carlsen. No. 1,342,096; June 1; v. 275; p. 95.
Hair-clipper. E. S. Carlsen. No. 1,342,097; June 1; v. 275; p. 95.
Hair-clipper. G. A. Lafontaine. No. 1,343,175; June 8; v. 275; p. 359.
Hair on the head, Apparatus for treatment of loss of. J. Krauer. No. 1,343,512; June 15; v. 275; p. 488.
Hair-plane and safety-razor. E. A. Zimmerman. No. 1,342,494; June 8; v. 275; p. 225.
Hairpin. I. Hayman. No. 1,341,980; June 1; v. 275; p. 72.
Hairpin. M. Liebers. No. 1,342,822; June 8; v. 275; p. 290.
Hammer, Magazine-. C. J. Pope. No. 1,344,715; June 29; v. 275; p. 855.
Hammer, Trip-. A. Vincent. No. 1,342,782; June 8; v. 275; p. 282.
Hammer, Vacuum pneumatic. J. C. Campbell. No. 1,342,984; June 8; v. 275; p. 322.
Hammers, Lubricating device for riveting-. J. Autorino. No. 1,343,104; June 8; v. 275; p. 346.
Hand, Artificial. G. A. Shirer. No. 1,344,357; June 22; v. 275; p. 720.
Hand-brake. J. F. O'Connor. No. 1,344,309; June 22; v. 275; p. 710.
Hand-brake. W. F. Richards. No. 1,343,061; June 8; v. 275; p. 337.
Hand-brake. W. H. Sauvage. No. 1,343,005; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,006; June 8; v. 275; p.
Hand-brake. W. H. Sauvage. No. 1,343,007; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,008; June 8; v. 275; p. 327.
Hand-brake. W. H. Sauvage. No. 1,343,009; June 8; v. 275; p. 327.
Hand-brake. H. A. Wahlert. No. 1,343,697; June 15; v. 275; p. 526.
Handbag-handle. N. Sloane. No. 1,342,301; June 1; v. 275; p. 135.
Handcuff. P. Kruger. No. 1,342,334; June 1; v. 275; p. 141.
Handkerchief-container, Sanitary. M. H. V. Otwell. No. 1,344,927; June 29; v. 275; p. 896.
Handle: *See*—
Automobile-door handle. Saw-handle.
Brake-valve handle. Suitcase-handle.
Casket-handle. Tool-handle.
Handbag-handle. Valve-handle.
Implement-handle.
Handles of tools, Means for securing heads to. S. J. Shepard. No. 1,342,929; June 8; v. 275; p. 311.
Hanger: *See*—
Car-door hanger. Garment-hanger.
Coat-hanger. Gate-hanger.
Coat and hat hanger. Shade-hanger.
Curtain and shade hanger. Soap-hanger.
Door-hanger. Trolley-hanger.
Hanger. W. D. Banes. No. 1,344,110; June 22; v. 275; p. 671.
Hanger. F. C. Hall. No. 1,343,364; June 15; v. 275; p. 459.
Hardening and annealing furnace. A. M. Moore. No. 1,341,661; June 1; v. 275; p. 9.
Hardening bodies having the shape of solids of revolution, Method of and means for. A. G. E. Hultgren. No. 1,342,112; June 1; v. 275; p. 98.
Harness, Rosette for bridles and other parts of. H. L. Daugherty. No. 1,345,076; June 29; v. 275; p. 923.
Harpoon. F. G. Hinsdale. No. 1,344,693; June 29; v. 275; p. 851.
Harrow, Disk. F. C. Warne. No. 1,344,159; June 22; v. 275; p. 680.
Harrow-operating mechanism, Tractor-. A. W. Reynolds. No. 1,341,824; June 1; v. 275; p. 42.
Harrow riding attachment. C. K. Johnson. No. 1,343,827; June 15; v. 275; p. 551.
Harrow-shoe. R. S. Mix. No. 1,342,454; June 8; v. 275; p. 217.
Harvester and thresher, Combined. B. C. Holt. No. 1,344,396; June 22; v. 275; p. 727.
Harvester, Aquatic-plant. H. E. Ellis. No. 1,344,626; June 29; v. 275; p. 838.
Harvester, Belt-. P. J. Cleereman. No. 1,342,795; June 8; v. 275; p. 285.
Harvester, Caterpillar-tractor swamp-. H. E. Ellis. No. 1,344,624; June 29; v. 275; p. 838.
Harvester, Corn-. W. A. Zimpfer. No. 1,344,017; June 22; v. 275; p. 653.
Harvester, Cotton-. W. H. Chancellor. No. 1,342,528; June 8; v. 275; p. 232.
Harvester, Grain-. E. W. Burgess. No. 1,345,070; June 29; v. 275; p. 922.
Harvesting implement. A. R. Grounds. No. 1,344,033; June 22; v. 275; p. 656.
Harvesting-machine. W. L. Hendricks. No. 1,344,130; June 22; v. 275; p. 675.
Harvester, Peanut-. G. W. Byrd. No. 1,345,315; June 29; v. 275; p. 970.
Hasp, Door-. P. Veith. No. 1,342,361; June 1; v. 275; p. 146.
Hat. C. A. Peters. No. 1,342,132; June 1; v. 275; p. 102.
Hat-frame. R. W. Rosemire. No. 1,341,679; June 1; v. 275; p. 13.
Hats, Apparatus for sizing and shaping. A. Slocum. No. 1,343,887; June 15; v. 275; p. 564.
Hats, Machine for blocking and pressing. W. H. Kendall. No. 1,343,185; June 8; v. 275; p. 361.
Hats, Machine for hardening. M. Krajnah and J. Madunicky. No. 1,343,729; June 15; v. 275; p. 532.
Hatband. J. M. Powers. No. 1,342,924; June 8; v. 275; p. 310.
Hatpin attachment. J. B. Maserang. No. 1,341,858; June 1; v. 275; p. 48.
Hatpin attachment. J. B. Maserang. No. 1,343,736; June 15; v. 275; p. 533.
Hatch-cover. J. S. Wood. No. 1,342,612; June 8; v. 275; p. 248.
Hay-carriage. J. G. Mayer. No. 1,342,341; June 1; v. 275; p. 142.
Hay rake and racker. F. Lake. No. 1,342,293; June 1; v. 275; p. 133.
Hay-sweep. J. J. Champlin. No. 1,344,863; June 29; v. 275; p. 884.
Headlight. E. L. Clark. No. 1,345,073; June 29; v. 275; p. 923.
Headlight. L. W. Swope. No. 1,341,947; June 1; v. 275; p. 66.
Headlight. O. Winston. No. 1,345,056; June 29; v. 275; p. 920.
Headlight antiglare device. W. Bennett. No. 1,344,164; June 22; v. 275; p. 682.
Headlight control, Automobile-. D. E. Kidder. No. 1,343,143; June 8; v. 275; p. 353.
Headlight, Dirigible. G. F. Messer. No. 1,343,822; June 15; v. 275; p. 550.
Headlight-lens holder. E. I. Howard. No. 1,344,694; June 29; v. 275; p. 851.
Headlight-lens holder. E. I. Howard. No. 1,344,695; June 29; v. 275; p. 851.
Headlight-shield. F. J. Newton. No. 1,344,594; June 22; v. 275; p. 767.
Headlights, Circuit-controlling switch for. D. H. Ross. No. 1,341,932; June 1; v. 275; p. 63.
Headlights, Dimmer for automobile-. O. C. Patton. No. 1,343,886; June 15; v. 275; p. 563.
Heat-conserving apparatus. R. N. Ehrhart. No. 1,343,666; June 15; v. 275; p. 519.
Heat-engine. P. Okey. No. 1,343,577; June 15; v. 275; p. 501.
Heat-insulating fabric. F. V. Wedlock. No. 1,345,046; June 29; v. 275; p. 918.
Heat, Producing. C. E. Lucke. No. 1,344,049; June 22; v. 275; p. 660.
Heat-regulator, Thermostatic. S. Lippert. No. 1,342,052; June 1; v. 275; p. 86.
Heat-treating metallic articles, Method of and apparatus for. H. P. Macdonald. No. 1,344,643; June 29; v. 275; p. 842.
Heater: *See*—
Carbureter-heater. Gas-heater.
Chimney-heater. Gas or vapor heater.
Electric water-heater. Tire-heater.
Feed-water heater. Vehicle-heater.
Heater. G. W. Coen. No. 1,344,381; June 22; v. 275; p. 724.
Heater. I. C. Popper and C. H. Bayer. No. 1,342,570; June 8; v. 275; p. 240.
Heating and cooking apparatus, Electrical. C. G. and W. W. Nobbs. No. 1,345,222; June 29; v. 275; p. 952.
Heating and ventilating device. J. C. Miles. No. 1,343,330; June 15; v. 275; p. 453.
Heating apparatus. J. Erskine. No. 1,342,991; June 8; v. 275; p. 323.
Heating apparatus. T. C. Sebring. No. 1,341,723; June 1; v. 275; p. 21.

Heating device. A. M. Duttweiler. No. 1,341,788; June 1; v. 275; p. 35.
Heating device. S. Goodman. No. 1,343,670; June 15; v. 275; p. 520.
Heating-furnace. W. C. Buell, Jr. No. 1,344,436; June 22; v. 275; p. 735.
Heating-furnace. W. C. Buell, Jr. No. 1,344,437; June 22; v. 275; p. 736.
Heating-furnace. W. C. Buell, Jr., and J. W. Griswold. No. 1,344,438; June 22; v. 275; p. 736.
Heating-furnace. C. L. W. Trinks. No. 1,342,074; June 1; v. 275; p. 90.
Heating plants, Attachment for steam-. F. B. Dawley. No. 1,344,292; June 22; v. 275; p. 707.
Heating system. E. Edsen. No. 1,345,149; June 29; v. 275; p. 938.
Heating systems, Automatic vaporizer for hot-water. M. Houck. No. 1,344,894; June 29; v. 275; p. 889.
Heavier-than-air bodies, Safety device for. E. R. Case. No. 1,341,783; June 1; v. 275; p. 34.
Heel-attaching means. J. A. Mitchell. No. 1,343,638; June 15; v. 275; p. 513.
Heel-breasting machine. E. E. Winkley. No. 1,344,782; June 29; v. 275; p. 869.
Heel-building machine. E. E. Winkley. No. 1,342,366; June 1; v. 275; p. 146.
Heel, Cushion-. T. W. Arter. No. 1,345,114; June 29; v. 275; p. 931.
Heel, Cushion-. C. C. Stolzenburg. No. 1,343,528; June 15; v. 275; p. 492.
Heel-cutter. C. S. Reamy. No. 1,344,247; June 22; v. 275; p. 697.
Heel, Detachable. A. V. Des Moineaux. No. 1,343,353; June 15; v. 275; p. 457.
Heel-lifts, Apparatus for cutting. G. Basler. No. 1,343,759; June 15; v. 275; p. 538.
Heel molds, Washer-setter for rubber-. F. Krivosky and J. Stoykovich. No. 1,344,237; June 22; v. 275; p. 695.
Heel, Protected pneumatic. W. E. Kay. No. 1,342,291; June 1; v. 275; p. 133.
Heel, Shoe-. F. Sahr. No. 1,344,356; June 22; v. 275; p. 719.
Heel-tread, Resilient. R. Armour. No. 1,344,972; June 29; v. 275; p. 904.
Heels, Attaching means for rubber. J. W. Denmead. No. 1,344,443; June 22; v. 275; p. 737.
Heels of shoes, Apparatus for covering the. W. J. Drey. No. 1,341,737; June 1; v. 275; p. 25.
Heeling-machine. T. Lund. No. 1,344,305; June 22; v. 275; p. 709.
Hemorrhoids and resection of prolapsus recti, Instrument for the removal of. A. W. Hauman. No. 1,344,227; June 22; v. 275; p. 694.
Hemp, flax, and other fibrous materials, Apparatus employed in drawing and spinning. J. Lovett. No. 1,345,203; June 29; v. 275; p. 948.
Hemp or other fibrous material, Machine for treating or breaking and scutching. W. A. Shely. No. 1,342,771; June 8; v. 275; p. 280.
Hemp or other fibrous material, Machine for breaking and scutching. W. A. Shely. No. 1,342,772; June 8; v. 275; p. 280.
Hides or skins, Liming and other tanning operations upon. C. M. Owen. No. 1,342,866; June 8; v. 275; p. 299.
High-tension discharge apparatus. G. D. Rogers. (Reissue.) No. 14,896; June 22; v. 275; p. 772.
Hinge. J. B. Bradley. No. 1,344,479; June 22; v. 275; p. 744.
Hinge. J. Soss. (Reissue.) No. 14,899; June 22; v. 275; p. 773.
Hinge. J. R. Werner. No. 1,341,690; June 1; v. 275; p. 15.
Hinge, Bag-frame. W. A. Lotz. No. 1,341,754; June 1; v. 275; p. 28.
Hinge for desk-tops. R. M. Milligan. No. 1,343,332; June 15; v. 275; p. 453.
Hinge, Harrow-. R. A. Andes. No. 1,342,614; June 8; v. 275; p. 248.
Hinge, Spring-. J. Kaufman. No. 1,344,538; June 22; v. 275; p. 756.
Hinge, Windshield-. E. S. Ziegler. No. 1,344,844; June 29; v. 275; p. 880.
Hitch. L. A. Thomas. No. 1,342,725; June 8; v. 275; p. 270.
Hitch. L. H. and A. F. Logan. No. 1,341,918; June 1; v. 275; p. 60.
Hitch, Safety-. R. O. Junek. No. 1,344,899; June 29; v. 275; p. 890.
Hitch, Safety-. R. H. Pogue. No. 1,344,818; June 29; v. 275; p. 875.
Hob, Combination roughing and finishing. C. G. Olson and N. Trbojevich. No. 1,343,276; June 15; v. 275; p. 442.
Hoe and spade, Combination. Z. T. Blackman. No. 1,344,256; June 22; v. 275; p. 699.
Hog catcher and turner. J. F. Block. No. 1,342,893; June 8; v. 275; p. 304.
Hog-feeder. C. Burnett. No. 1,344,789; June 29; v. 275; p. 870.
Hog-holder. A. B. Johnson and V. Green. No. 1,343,213; June 15; v. 275; p. 431.
Hog-holding device. H. M. Trout. No. 1,343,596; June 15; v. 275; p. 505.
Hog-waterer. L. C. McCartney. No. 1,341,919; June 1; v. 275; p. 60.
Hog-watering fountain. L. C. McCartney. No. 1,341,920; June 1; v. 275; p. 60.
Holst. E. C. Wilson. No. 1,341,957; June 1; v. 275; p. 68.
Holst, Shock-. E. W. Burgess. No. 1,345,068; June 29; v. 275; p. 922.
Hoist, Shock-. E. W. Burgess. No. 1,345,069; June 29; v. 275; p. 922.
Hoisting and conveying machine, Power. I. Ferguson. No. 1,343,906; June 22; v. 275; p. 643.
Hoisting-tackle, Portable hanger for. T. Patterson. No. 1,343,641; June 15; v. 275; p. 514.
Holdback. R. Tallon. No. 1,342,724; June 8; v. 275; p. 270.
Holder. S. Jones. No. 1,345,012; June 29; v. 275; p. 911.
Holder. E. McCallum. No. 1,342,853; June 8; v. 275; p. 296.
Holding device for one-armed persons. C. Young. No. 1,343,606; June 15; v. 275; p. 507.
Hook: *See*—
Clothesline-hook. Lifting or sling hook.
Hoop: *See*—
Cheese-hoop.
Hopper, Movable loading-. A. P. Lee. No. 1,342,919; June 8; v. 275; p. 309.
Hopple. B. Hanlon. No. 1,341,900; June 1; v. 275; p. 56.
Horn for bicycles, boats, &c., Mechanically-actuated. G. J. Seiss. No. 1,344,724; June 29; v. 275; p. 857.
Horseshoe. A. E. Mickelson. No. 1,343,874; June 15; v. 275; p. 561.
Horseshoe. R. Arluchi. No. 1,342,615; June 8; v. 275; p. 248.
Horsetail-holder. H. Liechty. No. 1,343,147; June 8; v. 275; p. 354.
Hose and garment supporter. J. E. Lindsay. No. 1,343,514; June 15; v. 275; p. 489.
Hose-clamp. E. D. Blackburn. No. 1,344,433; June 22; v. 275; p. 735.
Hose-coupling. H. R. Gilson. No. 1,343,967; June 22; v. 275; p. 643.
Hose-coupling. A. Rubin. No. 1,343,853; June 15; v. 275; p. 557.
Hose coupling, nipples, bands, &c., Apparatus for applying and removing. A. J. Sarjeant. No. 1,342,763; June 8; v. 275; p. 278.
Hose-supporter. J. W. Crouch. No. 1,342,666; June 8; v. 275; p. 258.
Hose-supporter. W. M. Jameson. No. 1,345,193; June 29; v. 275; p. 946.
Hosiery, Apparatus for drying. F. L. Bickel. No. 1,344,612; June 29; v. 275; p. 836.
Hot-air motor. L. D. Freeland. No. 1,342,501; June 1; v. 275; p. 226.
House: *See*—
Doll-house.
Humidifying apparatus. V. W. McAdams. No. 1,343,873; June 15; v. 275; p. 561.
Hydraulic air-motor. J. A. Knowlton. No. 1,342,682; June 8; v. 275; p. 261.
Hydraulic-gear jack. A. W. Hilliard. No. 1,344,510; June 22; v. 275; p. 750.
Hydraulic ingredient and making same. F. M. Meyer. No. 1,343,929; June 22; v. 275; p. 636.
Hydraulic jack. A. W. Marr. No. 1,344,919; June 29; v. 275; p. 894.
Hydraulic jack. A. Paoli. No. 1,344,711; June 29; v. 275; p. 854.
Hydraulic power device, Portable. H. J. Dana. No. 1,343,117; June 8; v. 275; p. 349.
Hydraulic transmission mechanism. J. Reton. No. 1,343,749; June 15; v. 275; p. 536.
Hydraulic transmission mechanism. J. W. Rosche. No. 1,343,338; June 15; v. 275; p. 454.
Hydrocarbon-burner. A. Kaufman. No. 1,341,910; June 1; v. 275; p. 58.
Hydrocarbon-burner. F. M. Walker. No. 1,341,688; June 1; v. 275; p. 15.
Hydrocarbon-motor. L. K. Snell. No. 1,342,830; June 8; v. 275; p. 292.
Hydrocarbons, Apparatus for cracking. J. W. Coast, Jr. No. 1,345,133; June 29; v. 275; p. 935.
Hydrocarbons, Apparatus for distilling. J. W. Coast, Jr. No. 1,345,134; June 29; v. 275; p. 935.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,345,132; June 29; v. 275; p. 934.
Hydrocarbons from heavy hydrocarbons, Obtaining light. F. Berglus. No. 1,344,671; June 29; v. 275; p. 847.
Hydrogen-circulation process. C. Ellis. No. 1,342,668; June 8; v. 275; p. 258.
Ice-conveyer. H. B. Wood. No. 1,341,697; June 1; v. 275; p. 16.
Ice-cream-cone-holder insert for bags. S. J. Downing and F. A. Sutherland. No. 1,343,252; June 15; v. 275; p. 438.
Ice-cream cornucopias, Combined trimming and nesting machine for. M. J. Wolff. No. 1,344,286; June 22; v. 275; p. 706.
Ice-cream cutter. C. S. Raia. No. 1,343,932; June 22; v. 275; p. 637.
Ice-cream-dispensing device. W. L. Hix. No. 1,342,675; June 8; v. 275; p. 260.
Ice-cream, Packaging. J. B. Dalton. (Reissue.) No. 14,887; June 22; v. 275; p. 770.

Ice-cream package. W. A. Haas. No. 1,343,391; June 15; v. 275; p. 463.
Ice-cream tub, Reinforced. B. H. Frick. No. 1,344,876; June 29; v. 275; p. 886.
Ice-cutting machines, Operating mechanism for. J. S. Turins. No. 1,345,290; June 29; v. 275; p. 965.
Ice-machine. W. C. Grant. No. 1,344,502; June 22; v. 275; p. 749.
Ice-machine. H. E. Willsie. (Reissue.) No. 14,885; June 15; v. 275; p. 565.
Ice-machines of the compression type, Crank-mounting for. H. W. Rottel. No. 1,343,407; June 15; v. 275; p. 468.
Ice-tractor. D. H. Scott. No. 1,343,687; June 15; v. 275; p. 523.
Ignition device. R. N. Wood. No. 1,342,837; June 8; v. 275; p. 293.
Ignition-magneto. J. R. Stark. No. 1,342,607; June 8; v. 275; p. 247.
Illuminating apparatus. L. W. Bugbee. No. 1,342,894; June 8; v. 275; p. 305.
Illuminating apparatus. J. F. Rhodin. No. 1,341,674; June 1; v. 275; p. 12.
Illuminating means. M. H. Greenewalt. No. 1,345,168; June 29; v. 275; p. 942.
Implement, Combination. P. A. Peterson. No. 1,341,759; June 1; v. 275; p. 29.
Implement-handle. J. V. Smith. No. 1,342,467; June 8; v. 275; p. 220.
Implement-holding device. E. Wikstrom. No. 1,342,364; June 1; v. 275; p. 146.
Impulse-starter. F. W. Andrew. No. 1,342,199; June 1; v. 275; p. 115.
Inclinometer. H. Markham-Mills. No. 1,345,098; June 29; v. 275; p. 928.
Incubator. F. W. Mueller. No. 1,344,591; June 22; v. 275; p. 766.
Indexing and recording means. A. R. Fergusson. No. 1,344,627; June 29; v. 275; p. 838.
Indicator: *See*—
Angle-indicator.
Automobile-indicator.
Automobile direction-indicator.
Direction-indicator.
Exposure-indicator.
Rudder-position indicator.
Station-indicator.
Street-indicator.
Tire-mileage indicator.
Vehicle loading-indicator.
Wind-indicator.
Indicator-holder. G. Schustarich. No. 1,341,935; June 1; v. 275; p. 64.
Inductance-coils, Insulated support for. L. Steinberger and G. Hill. No. 1,342,308; June 1; v. 275; p. 135.
Inductance-coils, Insulated support for. L. Steinberger and G. Hill. No. 1,342,309; June 1; v. 275; p. 136.
Injector. J., J. C., and R. D. Metcalfe. No. 1,342,128; June 1; v. 275; p. 101.
Inking mechanism. J. White. No. 1,341,691; June 1; v. 275; p. 15.
Inking-plate. O. Eads. No. 1,344,026; June 22; v. 275; p. 655.
Inking-roller-driving mechanism. J. White. No. 1,341,692; June 1; v. 275; p. 15.
Insole. H. McMaster. No. 1,342,967; June 8; v. 275; p. 319.
Insulating and sealing composition. G. O. Bassett. No. 1,345,057; June 29; v. 275; p. 920.
Insulator. W. T. Goddard. (Reissue.) No. 14,888; June 22; v. 275; p. 770.
Intake-manifold. D. K. Champaign. No. 1,342,159; June 1; v. 275; p. 108.
Intake-manifolds, Electrical preheating attachment for automobile. G. T. Newell, Jr. No. 1,344,242; June 22; v. 275; p. 696.
Intake-manifolds, Heater for. G. C. Shinn. No. 1,343,092; June 8; v. 275; p. 343.
Intensifier. H. R. Walker. No. 1,344,528; June 22; v. 275; p. 754.
Internal-combustion engine. C. H. T. Alston. No. 1,342,146; June 1; v. 275; p. 105.
Internal-combustion engine. B. F. Baughman. No. 1,343,863; June 15; v. 275; p. 559.
Internal-combustion engine. A. B. Bernhard. No. 1,345,065; June 29; v. 275; p. 921.
Internal-combustion engine. R. H. Case. No. 1,342,422; June 8; v. 275; p. 211.
Internal-combustion engine. E. Crouse. No. 1,344,263; June 22; v. 275; p. 701.
Internal-combustion engine. A. Fehlmann and G. Hintermann. No. 1,342,950; June 8; v. 275; p. 315.
Internal-combustion engine. S. I. Fekete. No. 1,343,668; June 15; v. 275; p. 520.
Internal-combustion engine. R. P. Grieve. No. 1,345,169; June 29; v. 275; p. 942.
Internal-combustion engine. P. D. Hilbner. No. 1,342,108; June 1; v. 275; p. 94.
Internal-combustion engine. P. D. Johnston. No. 1,344,407; June 22; v. 275; p. 729.
Internal-combustion engine. E. T. Kershaw. No. 1,343,142; June 8; v. 275; p. 353.
Internal-combustion engine. F. H. Leinweber. No. 1,342,553; June 8; v. 275; p. 237.
Internal-combustion engine. F. H. Leinweber. No. 1,344,641; June 29; v. 275; p. 841.
Internal-combustion engine. M. E. Stockwell. No. 1,342,723; June 8; v. 275; p. 270.
Internal-combustion engine. H. L. Thompson. No. 1,342,976; June 8; v. 275; p. 320.
Internal-combustion engine. G. A. Weidely. No. 1,345,048; June 29; v. 275; p. 918.
Internal-combustion engine. J. D. Weln. No. 1,343,858; June 15; v. 275; p. 558.
Internal-combustion engine. C. C. Wickwire. No. 1,342,483; June 8; v. 275; p. 223.
Internal-combustion engine. M. Wolcula. No. 1,342,368; June 1; v. 275; p. 147.
Internal-combustion engine, Rotary. E. Durr. No. 1,343,316; June 15; v. 275; p. 450.
Internal-combustion engine, Rotary. H. L. Kline. No. 1,341,854; June 1; v. 275; p. 47.
Internal-combustion engine, Rotating. J. J. Walk. No. 1,344,158; June 22; v. 275; p. 680.
Internal-combustion-engine-testing device. R. G. Edgerton. No. 1,344,387; June 22; v. 275; p. 726.
Internal-combustion engine, Two-stroke. F. P. Flint. No. 1,342,105; June 1; v. 275; p. 97.
Iron: *See*—
Puddling-iron.
Iron and steel, Manufacture of. S. Whyte. No. 1,345,051; June 29; v. 275; p. 919.
Iron and steel plates, Finishing. C. Williams. No. 1,342,484; June 8; v. 275; p. 223.
Iron or steel articles, Coloring. H. F. Jermain. No. 1,342,910; June 8; v. 275; p. 308.
Iron ores, Treatment of. C. R. Hayward, F. O. Stillman, and H. M. Schleicher. No. 1,341,901; June 1; v. 275; p. 56.
Irons, Switch attachment for electric. C. H. Helling. No. 1,342,905; June 8; v. 275; p. 307.
Ironing machine, Seam-. G. Boulton and G. J. Gorsuch. No. 1,352,417; June 8; v. 275; p. 210.
Ironing-support. S. E. Durant. No. 1,342,278; June 1; v. 275; p. 131.
Irrigating device, Plant-. D. R. White. No. 1,342,786; June 8; v. 275; p. 283.
Irrigation means. W. H. Lewis. No. 1,343,871; June 15; v. 275; p. 561.
Jack: *See*—
Automobile-jack.
Hydraulic gear-jack.
Lifting-jack.
Vehicle-jack.
Jack. E. B. Bird. No. 1,344,575; June 22; v. 275; p. 763.
Jack. J. J. Kuntz. No. 1,342,389; June 1; v. 275; p. 151.
Jack. C. J. Livering. No. 1,343,872; June 15; v. 275; p. 561.
Jack-bar. J. C. Kopf. No. 1,341,856; June 1; v. 275; p. 48.
Jar: *See*—
Battery-jar.
Preserving-jar.
Jar-closure. Q. A. Gates. No. 1,341,897; June 1; v. 275; p. 56.
Jewelry, Cluster-back for. O. P. Bailer. No. 1,343,246; June 15; v. 275; p. 437.
Jewelry-setting. B. K. Benson. No. 1,344,111; June 22; v. 275; p. 671.
Joint: *See*—
Furnace-joint.
Pipe-joint.
Rail-joint.
Tool-joint.
Universal joint.
Joint. G. L. Beitner. No. 1,342,979; June 8; v. 275; p. 321.
Journal-bearing, Adjustable. J. Murrin and E. J. Brewster. No. 1,342,059; June 1; v. 275; p. 87.
Journal bearing, Roller-. T. Crowe. No. 1,344,868; June 29; v. 275; p. 885.
Journal-box. G. O. Bergland. No. 1,345,063; June 29; v. 275; p. 921.
Journal-box. W. H. Foster. No. 1,342,164; June 1; v. 275; p. 109.
Journal-box lid. J. S. Creedy. No. 1,344,175; June 22; v. 275; p. 683.
Journal-boxes, Oiling device for. F. R. and C. J. M. Weber. No. 1,344,465; June 22; v. 275; p. 741.
Jumper or crib. M. J. Ruddy. No. 1,343,523; June 15; v. 275; p. 491.
Junction-boxes, Pipe connection for. W. M. Waltman. No. 1,343,877; June 15; v. 275; p. 562.
Key: *See*—
Telephone-key.
Key-changing combination-lock. W. T. Benham. No. 1,341,876; June 1; v. 275; p. 52.
Key-cutting machine. E. P. Baird. No. 1,345,117; June 29; v. 275; p. 932.
Key-guard. S. Caralun. No. 1,343,615; June 15; v. 275; p. 509.
Key-ring. V. Davis. No. 1,343,495; June 15; v. 275; p. 485.
Key-ring holder. B. R. Roblin. No. 1,341,930; June 1; v. 275; p. 62.
Key-switch. B. L. Moore. No. 1,341,719; June 1; v. 275; p. 24.
Keyboard. C. Wolcott. No. 1,342,244; June 1; v. 275; p. 124.
Keyless lock. E. J. Rebsamen. No. 1,344,517; June 22; v. 275; p. 752.
Kiln: *See*—
Drying-kiln.
Kilns, Air-conditioning apparatus for drying-. H. N. Andrews and R. M. Holmes. No. 1,343,894; June 22; v. 275; p. 629.
Knife: *See*—
Bread-knife.

Knitting-machines, Facilitating the mechanical transfer of stitches from needles of. L. N. D. Williams. No. 1,344,468; June 22; v. 275; p. 742.
Labeling containers. M. Galibert. No. 1,344,080; June 22; v. 275; p. 665.
Labeling-machine. M. Galibert. No. 1,344,081; June 22; v. 275; p. 666.
Labeling-machine. L. A. Hawthorne. No. 1,345,006; June 29; v. 275; p. 910.
Labeling-machine. G. S. Morris. No. 1,344,426; June 22; v. 275; p. 733.
Lacing, Belt-operated. C. Munter. No. 1,344,709; June 29; v. 275; p. 854.
Ladder. H. C. Bissell and J. G. Chase. No. 1,342,153; June 1; v. 275; p. 106.
Ladder. F. M. de Saussure, Jr. No. 1,341,707; June 1; v. 275; p. 18.
Ladder and ironing-table, Combination. S. Gellis. No. 1,343,500; June 15; v. 275; p. 486.
Ladder-step support. D. B. Hampton. No. 1,344,886; June 29; v. 275; p. 888.
Ladles, Gas-burner for drying. F. W. Alles, A. Fletcher, and G. E. Hitchens. No. 1,342,932; June 8; v. 275; p. 312.
Laminated fabric. W. Kline. No. 1,341,987; June 1; v. 275; p. 73.
Lamp, W. C. Coleman. No. 1,344,200; June 22; v. 275; p. 689.
Lamp. R. Geer. No. 1,342,330; June 1; v. 275; p. 140.
Lamp. E. A. Hawthorne. No. 1,342,215; June 1; v. 275; p. 119.
Lamp attachment, Phonograph-. R. L. Cuzen. No. 1,343,767; June 15; v. 275; p. 539.
Lamp, Arc-. W. A. Darrah. No. 1,344,757; June 19; v. 275; p. 864.
Lamp-bracket. R. F. Ferguson. No. 1,343,499; June 15; v. 275; p. 486.
Lamp casing, Arc-. I. Eachus. No. 1,344,938; June 29; v. 275; p. 898.
Lamp-chimneys, Heating device for. L. B. Tebeau. No. 1,342,359; June 1; v. 275; p. 145.
Lamp construction. C. L. De Martin and H. C. Foster. No. 1,342,426; June 8; v. 275; p. 212.
Lamp, Dirigible. W. H. Spencer. No. 1,341,681; June 1; v. 275; p. 14.
Lamp, Electric. J. Cathrill. No. 1,343,309; June 15; v. 275; p. 448.
Lamp, Electric. G. E. Ricker. No. 1,344,429; June 22; v. 275; p. 734.
Lamp, Emergency-. W. J. Koenig. No. 1,344,206; June 22; v. 275; p. 690.
Lamp holder, Electric-. V. Martinez. No. 1,343,573; June 15; v. 275; p. 501.
Lamp, Incandescent electric. S. Yuyama. No. 1,341,966; June 1; v. 275; p. 69.
Lamp, Mercury-vapor. M. J. Cornu. No. 1,343,037; June 8; v. 275; p. 333.
Lamp, Miner's. A. Coyne and L. Hash. No. 1,344,867; June 29; v. 275; p. 884.
Lamp, Signal-. W. N. Best. No. 1,343,899; June 22; v. 275; p. 630.
Lamp-sockets, Automatic lockout for. A. J. Kellogg. No. 1,345,091; June 29; v. 275; p. 926.
Lamp-stems, Tray for. J. E. Jambor. (Reissue.) No. 14,507; June 8; v. 275; p. 362.
Lamp switch, Hand-. F. G. Spiers. No. 1,344,735; June 29; v. 275; p. 859.
Lamps, Attachment for wick-. A. Czarniecki. No. 1,345,141; June 29; v. 275; p. 936.
Lamps, Refractive glass for automobile-. H. S. Evans. No. 1,342,744; June 8; v. 275; p. 274.
Lamps, Tiltable reflector for head-. L. G. Goetz and T. Edeburn. No. 1,344,687; June 29; v. 275; p. 850.
Lamps, Vaporizer-strainer for. A. G. Kaufman. No. 1,342,849; June 8; v. 275; p. 296.
Land, Means for draining marshy and swampy. J. H Saltsman. No. 1,344,656; June 29; v. 275; p. 844.
Lantern, Electric safety-. J. F. Monahan. No. 1,345,212; June 29; v. 275; p. 950.
Lasting-machine. M. Brock. No. 1,341,732; June 1; v. 275; p. 24.
Latch. L. W. Holland. No. 1,341,802; June 1; v. 275; p. 38.
Lath-boards, Machine for molding. G. H. Ellis. No. 1,343,909; June 22; v. 275; p. 632.
Lath, Making. J. P. Sexton. No. 1,344,826; June 29; v. 275; p. 877.
Lathe-dog. R. W. Lofstrom. No. 1,342,122; June 1; v. 275; p. 100.
Lathe-headstocks, Lubricating system for. G. E. Greenleaf. No. 1,342,904; June 8; v. 275; p. 307.
Lathe-tool. F. H. Halstead. No. 1,342,745; June 1; v. 275; p. 274.
Lathe-tool. F. H. Halstead. No. 1,342,746; June 8; v. 275; p. 274.
Lathe, Turning. A. Sundt. No. 1,341,946; June 1; v. 275; p. 65.
Lathes and other machine-tools, Interconnected clutch and gear shift for. J. Macnab and G. H. Smith. No. 1,342,126; June 1; v. 275; p. 101.
Laundry-checking device. J. H. Todd. No. 1,343,423; June 15; v. 275; p. 471.
Laundry-stick. B. H. Millyard. No. 1,345,019; June 29; v. 275; p. 913.
Lawn-edge-trimming gage. J. Lees. No. 1,343,269; June 15; v. 275; p. 441.
Lead and like ores and products, Smelting. T. W. Cavers. No. 1,343,656; June 15; v. 275; p. 517.
Lead, Making arsenate of. O. F. Hedenburg and D. S. Pratt. No. 1,344,035; June 22; v. 275; p. 657.
Leaf-turning device. C. Ciabotti. No. 1,345,316; June 29; v. 275; p. 971.
Leak-stopping composition. G. W. B. Neff. No. 1,343,150; June 8; v. 275; p. 355.
Leather or skins, Staining. M. Poto. No. 1,345,234; June 29; v. 275; p. 954.
Leather-press. J. T. Smith. No. 1,344,214; June 22; v. 275; p. 691.
Leather-working machine. R. F. Whitney. No. 1,344,467; June 22; v. 275; p. 742.
Ledger, Office-. J. F. G. Jongepier. No. 1,343,879; June 15; v. 275; p. 562.
Leg, Artificial. L. C. Desoutter. No. 1,343,617; June 15; v. 275; p. 509.
Legging. U. S. De Moulin. No. 1,341,885; June 1; v. 275; p. 53.
Lemon-juice extractor. J. W. Brenkert. No. 1,344,857; June 29; v. 275; p. 883.
Lens-grinding machine. C. Goodwin. No. 1,343,050; June 8; v. 275; p. 335.
Lenses, Grinding and polishing. A. C. Robertson and F. Volk. No. 1,343,522; June 15; v. 275; p. 490.
Letter-box-closure operator. G. E. Benton. No. 1,342,890; June 8; v. 275; p. 304.
Letter-boxes, Circuit-closer for. F. Bachila. No. 1,345,116; June 29; v. 275; p. 931.
Level-indicator and inclinometer. F. W. Charles. No. 1,343,657; June 15; v. 275; p. 517.
Lever and fulcrum, Interlocking flush-tank. W. U. Griffiths. No. 1,344,128; June 22; v. 275; p. 675.
Lever escapement, Double-roller-. H. Colomb. No. 1,345,318; June 29; v. 275; p. 971.
Lid and strainer, Pouring-spout. O. E. Jenson. No. 1,344,039; June 22; v. 275; p. 658.
Lid-supporter. N. A. Dovas. No. 1,342,325; June 1; v. 275; p. 139.
Life-preserver. W. J. May. No. 1,343,928; June 22; v. 275; p. 636.
Life-saving appliance. F. P. Ingram. No. 1,341,908; June 1; v. 275; p. 58.
Life-saving device. F. Lavryk. No. 1,341,752; June 1; v. 275; p. 28.
Lifting device or grapple. M. Clogston. No. 1,344,174; June 22; v. 275; p. 683.
Lifting-jack. G. C. Condito. No. 1,345,135; June 29; v. 275; p. 935.
Lifting-jack. J. Heinen. No. 1,345,178; June 29; v. 275; p. 944.
Lifting-jack. G. O Leopold. No. 1,343,732; June 15; v. 275; p. 532.
Lifting-jack. F. Miller. No. 1,342,057; June 1; v. 275; p. 87.
Lifting-jack. D. C. Mulvihill. No. 1,343,274; June 15; v. 275; p. 442.
Lifting-jack. D. C. Mulvihill. No. 1,343,275; June 15; v. 275; p. 442.
Lifting-jack. F. L. Rapson. No. 1,343,845; June 15; v. 275; p. 555.
Lifting-jack. C. W. Ripsch, J. C. Dawley, and C. D. Derby. No. 1,344,117; June 22; v. 275; p. 672.
Lifting or sling hook. W. J. Oliver. No. 1,344,187; June 22; v. 275; p. 686.
Light: *See*— Flash-light.
Lighting-arrester. C. W. Howe. No. 1,342,111; June 1; v. 275; p. 98.
Limb, Artificial. O. E. Worman. No. 1,343,297; June 15; v. 275; p. 446.
Limb, Artificial. O. E. Worman. No. 1,343,298; June 15; v. 275; p. 446.
Line-holder, Builder's. C. H. Gross. No. 1,344,224; June 22; v. 275; p. 693.
Linotype-mold. C. B. Hill. No. 1,343,171; June 8; v. 275; p. 359.
Lip-guard. J. Dieguez y Lopez and F. Alcañiz y Bascompte. No. 1,344,179; June 22; v. 275; p. 684.
Liquid-dispensing device. W. F. Lerch. No. 1,343,085; June 8; v. 275; p. 342.
Liquid-distributing apparatus. G. Moore. No. 1,342,859; June 8; v. 275; p. 298.
Liquid-fuel burner. E. R. Bittner. No. 1,342,526; June 8; v. 275; p. 231.
Liquid-fuel burner. J. W. Cowell. No. 1,342,988; June 8; v. 275; p. 323.
Liquid-fuel burner. J. C. Lockhart. No. 1,344,414; June 22; v. 275; p. 640.
Liquid-fuel burner. W. A. Tacker. No. 1,343,945; June 22; v. 275; p. 731.
Liquid gaging and cut-off means, Float-controlled. G. J. Waldrep. No. 1,344,663; June 29; v. 275; p. 845.
Liquid-receptacle. H. S. Barrows. No. 1,343,299; June 15; v. 275; p. 447.
Liquid-storage apparatus. E. Fahl. No. 1,345,154; June 29; v. 275; p. 939.
Liquors, Recovering by-products from waste. G. M. Bradford, and J. E. Broadhead. No. 1,342,737; June 8; v. 275; p. 272.
Loading and unloading device. J. Schmiederer. No. 1,342,826; June 8; v. 275; p. 291.

Loading apparatus. H. D. Pratt. No. 1,343,746; June 15; v. 275; p. 35.
Loading device. H. W. Nagel. No. 1,342,456; June 8; v. 275; p. 218.
Lock: *See*—
Auto steering-lock.
Automobile-lock.
Automobile-pedal lock.
Bed-lock.
Bicycle-lock.
Billiard-cue lock.
Bottle safety-lock.
Car-door lock.
Combination-lock.
Cylinder-lock.
Detachable-body lock.
Electric lock.
Electric-switch lock.
Elevator-door lock.
Key-changing combination-lock.
Keyless lock.
Meter-lock.
Nut-lock.
Permutation-lock.
Sash-lock.
Lock. A. Block. No. 1,344,613; June 29; v. 275; p. 836.
Lock. R. E. Brown. No. 1,342,157; June 1; v. 275; p. 107.
Lock. L. E. Cantrell. No. 1,344,484; June 22; v. 275; p. 745.
Lock. C. van der Leun. No. 1,342,075; June 1; v. 275; p. 90.
Lock. I. A. McCormack. No. 1,343,271; June 15; v. 275; p. 441.
Lock. F. Sobln. No. 1,343,064; June 8; v. 275; p. 338.
Lock. C. Wolf. No. 1,344 469; June 22; v. 275; p. 742.
Lock device for gear-shift levers. C. E. Mentzer. No. 1,344,554; June 22; v. 275; p. 759.
Lock mechanism. S. D. Livingston and C. E. Stahl. No. 1,343,187; June 8; v. 275; p. 362.
Lock-washer. C. A. Medbery. No. 1,342,559; June 8; v. 275; p. 238.
Locks, Fixing device of cylinder-. V. J. M. Eras and H. J. J. M. Lips. No. 1,343,712. June 18 v. 275; p. 529.
Locking attachment. J. P. Headley, Jr. No. 1,342,020; June 1; v. 275; p. 80.
Locking device. J. P. Linden. No. 1,343,733; June 15; v. 275; p. 532.
Locking-switch. E. O. Sessions. No. 1,342,972; June 8; v. 275; p. 319.
Locket. F. A. Kohlhepp. No. 1,342,817; June 8; v. 275; p. 289.
Locket. H. Wachenheimer. No. 1,342,035; June 1; v. 275; p. 83.
Locomotive. W. E. Woodard. No. 1,341,961; June 1; v. 275; p. 68.
Locomotive-axles, Lateral take-up device for. H. B. Furstonburg. No. 1,344,267; June 22; v. 275; p. 702.
Locomotive blast-pipe. E. Harlet. No. 1,344,887; June 29; v. 275; p. 888.
Locomotive-cabs, Storm-window attachment for. L. R. Donovan. No. 1,345,147; June 29; v. 275; p. 937.
Locomotive construction. R. G. Thompson. No. 1,344,740; June 29; v. 274; p. 860.
Locomotives, Economizer for. W. F. Kiesel, Jr. No. 1,343,144; June 8; v. 275; p. 354.
Locomotives, Footplate for electric. A. Wallace. No. 1,342,695; June 15; v. 275; p. 526.
Locomotives provided with surface condensers, Device for the recuperation of available heat on steam-. C. Kohler. No. 1,342,544; June 8; v. 275; p. 285.
Locomotives, Tool for facilitating the casting of hub-liners on bearing-boxes for. C. Guggenbuehler. No. 1,344,083; June 22; v. 275; p. 666.
Locomotives, Wear-plate for driving-axle boxes for. K. Rushton. No. 1,345,254; June 29; v. 295; p. 958.
Log-rafting apparatus. F. Blewer. No. 1,343,429; June 15; v. 275; p. 472.
Logs, Grappling-hook for skidding. S. Thomas. No. 1,344,320; June 22; v. 275; p. 712.
Loom, Automatic filling-replenishing. A. E. Rhoades. No. 1,342,573; June 8; v. 275; p. 241.
Loom, Drop-box. A. A. Davenport. No. 1,343,663; June 15; v. 275; p. 519.
Loom, Finishing-replenishing. A. E. Rhoades. No. 1,341,999; June 1; v. 275; p. 75.
Loom-stopping mechanism. H. Lussier. No. 1,342,555; June 8; v. 275; p. 237.
Loom, Terry-. A. E. Rhoades. No. 1,341,929; June 1; v. 275; p. 62.
Loom, Weft-replenishing. E. A. and J. V. Cunniff and J. K. Lanning. No. 1,341,883; June 1; v. 275; p. 53.
Looms, Belt-holder for. K. Eckert. No. 1,344,177; June 22; v. 275; p. 684.
Looms, Picking-motion-checking means for. C. Van De Voort. No. 1,342,726; June 8; v. 275; p. 270.
Looms, Picking-motion for. R. C. Dreher. No. 1,342,946; June 8; v. 275; p. 314.
Looms, Shuttle for side-motion-feeler. E. S. Stimpson. No. 1,344,066; June 22; v. 275; p. 663.
Looms, Thread-cutting temple for. E. S. Stimpson. No. 1,344,065; June 22; v. 275; p. 663.
Looms, Warp-opening mechanism for. J. Towers. No. 1,344,667; June 22; v. 275; p. 663.
Loose-leaf device. J. L. McMillan. No. 1,342,637; June 8; v. 275; p. 252.
Lubricants, Purifying apparatus for. F. R. Perry. No. 1,342,663; June 1; v. 275; p. 88.
Lubricating apparatus. D. F. Fesler. No. 1,341,892; June 1; v. 275; p. 55.
Lubricating apparatus. A. Fesler. No. 1,342,671; June 8; v. 275; p. 259.
Lubricating apparatus. W. F. Somes. No. 1,342,605; June 8; v. 275; p. 246.
Lubricating-strip for leaf-springs. T. S. Hamilton. (Reissue.) No. 14,870; June 1; v. 275; p. 156.
Lubrication system. H. B. Taylor. No. 1,341,866; June 1; v. 275; p. 50.
Lubricator: *See*— Spring-lubricator.
Lubricators, Valved coupling for. H. H. Houghton. No. 1,342,678; June 8; v. 275; p. 260.
Lumber-piling device. F. E. Trefren. No. 1,343,799; June 15; v. 275; p. 546.
Luminous indicating device. V. C. Thorne. No. 1,342,777; June 8; v. 275; p. 281.
Luminous indicating device. V. C. Thorne. No. 1,342,778; June 8; v. 275; p. 281.
Luminous indicating device and making same. W. A. Schlesinger. No. 1,342,767; June 8; v. 275; p. 279.
Lunch-chair. R. M. Keating. No. 1,344,901; June 29; v. 275; p. 891.
Machine having sliding carriage. C. Wales. No. 1,344,837; June 29; v. 275; p. 879.
Magnetic and electric polarity indicator, Combination. C. W. Eisenmann. No. 1,344,388; June 22; v. 275; p. 726.
Magnetic contractor. H. L. Van Valkenburg. No. 1,341,867; June 1; v. 275; p. 50.
Magneto. W. E. Schwarzmann. No. 1,344,723; June 29; v. 275; p. 856.
Mail-bag crane. E. G. Livesay. No. 1,344,912; June 29; v. 275; p. 893.
Mail-box. W. B. and V. D. Smith. No. 1,342,468; June 8; v. 275; p. 220.
Mail-box. W. F. Walker. No. 1,344,281; June 22; v. 275; p. 704.
Mailing sheet or blank. W. E. Swift. No. 1,343,419; June 15; v. 275; p. 470.
Mandrel, Box-. M. B. Diskin. No. 1,343,907; June 22; v. 275; p. 632.
Mandrel, Can-forming. J. S. Wentworth. No. 1,342,575; June 8; v. 275; p. 241.
Mandrel, Expanding. M. E. Moore. No. 1,343,273; June 15; v. 275; p. 442.
Manure-conveyer. H. F. Hensel and W. J. Stake. No. 1,342,217; June 1; v. 275; p. 119.
Manure-loader. A. Hossfeld. No. 1,345,088; June 29; v. 275; p. 926.
Manure-spreaders, Attachment for. A. E. Brichacek. No. 1,342,249; June 1; v. 275; p. 125.
Marine propulsion system. A. Conti. No. 1,342,797; June 8; v. 275; p. 286.
Marking device. G. J. Anderson and W. R. Smith. No. 1,343,073; June 8; v. 275; p. 340.
Marking or stamping device, Automatic. S. G. McPheters. No. 1,343,633; June 15; v. 275; p. 512.
Mask, Face-. D. De Rosier. No. 1,342,897; June 8; v. 275; p. 305.
Mask, Face-. D. De Rosier. No. 1,342,898; June 8; v. 275; p. 305.
Mask, Mosquito. P. Dowd. No. 1,342,277; June 1; v. 275; p. 130.
Mask, Open-face gas-. G. A. Mickelson. No. 1,344,349; June 22; v. 275; p. 718.
Massage device. W. M. Chadwick. No. 1,343,432; June 15; v. 275; p. 473.
Massager and strengthener, Foot. M. H. Mount. No. 1,345,096; June 29; v. 275; p. 927.
Mast, Extensible. B. F. Seymour. No. 1,342,828; June 8; v. 275; p. 291.
Mast, Knockdown. G. F. Gray. No. 1,342,847; June 8; v. 275; p. 295.
Mat: *See*— Foot-mat.
Match-box. E. Revega. No. 1,342,695; June 8; v. 275; p. 264.
Match-box. W. G. Wemmell. No. 1,344,746; June 29; v. 275; p. 861.
Match-box holder. M. Dettman. No. 1,343,354; June 15; v. 275; p. 457.
Match-lighter. J. A. Cunningham. No. 1,341,785; June 1; v. 275; p. 34.
Match-receptacle. O. Ellison. No. 1,345,078; June 29; v. 275; p. 924.
Mattress-tufting machine. J. W. Bowersox. No. 1,344,605; June 22; v. 275; p. 769.
Mausoleum construction. W. E. Hughes, and J. B. King. No. 1,342,812; June 8; v. 275; p. 288.
Measuring device. N. C. Butler. No. 1,345,071; June 29; v. 275; p. 923.
Measuring heat, Method and apparatus for. J. P. O'Hern. No. 1,344,813; June 29; v. 275; p. 875.
Measuring instrument. W. H. Field, Jr. No. 1,342,992; June 8; v. 275; p. 324.
Measuring machine, Cloth-. L. L. Scott. (Reissue.) No. 14,898; June 22; v. 275; p. 772.
Meat-roaster. H. Love. No. 1,344,915; June 29; v. 275; p. 894.
Mechanical movement. J. Arnott. No. 1,342,887; June 8; v. 275; p. 303.
Mechanical movement. C. Conlon. No. 1,344,989; June 29; v. 275; p. 907.
Mechanical movement. H. P. Gorman. No. 1,342,019; June 1; v. 275; p. 79.
Mechanical movement. H. G. Hill. No. 1,342,170; June 1; v. 275; p. 110.
Mechanical movement. D. H. Smith. No. 1,344,732; June 29; v. 275; p. 858.

Mechanic's handy holding device. L. L. Heckathorn. No. 1,345,177; June 29; v. 275; p. 943.
Mercerization. S. M. Jones. No. 1,343,138; June 8; v. 275; p. 353.
Mercerization. S. M. Jones. No. 1,343,139; June 8; v. 275; p. 353.
Mercerizing machines, Means for electrically controlling skein-. J. E. Wild and W. W. Caldwell. No. 1,343,804; June 15; v. 275; p. 547.
Metal and rolling same, Beaded strip of. T. Sloper. No. 1,343,753; June 15; v. 275; p. 537.
Metal bodies, Producing. G. L. Gebauer. No. 1,342,801; June 8; v. 275; p. 286.
Metal-drawing apparatus. F. J. O'Brien. No. 1,341,664; June 1; v. 275; p. 10.
Metal-frame screen. C. A. Shogren. No. 1,344,093; June 22; v. 275; p. 668.
Metal-plating machine. C. W. Eddy. No. 1,342,899; June 8; v. 275; p. 306.
Metal-plating, Process and apparatus for. R. J. Piersol. No. 1,343,842; June 15; v. 275; p. 555.
Metal-reducing machine. R. M. W. Hanson. No. 1,341,799; June 1; v. 275; p. 37.
Metal shelving. A. H. Levene. No. 1,343,327; June 15; v. 275; p. 452.
Metal-smoothing implement. E. G. Raff. No. 1,344,960; June 29; v. 275; p. 901.
Metal strips, Method of and apparatus for forming. C. H. Brasted. No. 1,344,577; June 22; v. 275; p. 763.
Metal-working apparatus, Electric. W. Remington. No. 1,344,961; June 29; v. 275; p. 902.
Metal-working machine. P. P-G. Hall. No. 1,343,503; June 15; v. 275; p. 486.
Metal-working machine. O. H. de Lapotterie. No. 1,341,808; June 1; v. 275; p. 39.
Metals, Extracting. C. J. A. Dalziel. No. 1,344,681; June 29; v. 275; p. 849.
Metallic-leaf-applying device. J. Moscini. No. 1,344,427; June 22; v. 275; p. 733.
Metallic structure. M. Lachman. No. 1,342,818; June 8; v. 275; p. 290.
Metallurgical process. W. E. Greenawalt. No. 1,342,804; June 8; v. 275; p. 287.
Metallurgical process. W. E. Greenawalt. No. 1,344,030; June 22; v. 275; p. 656.
Metallurgical process. W. E. Greenawalt. No. 1,344,127; June 22; v. 275; p. 674.
Meter: *See*—
Diaphragm blast-meter. Volt-ampere meter.
Gas-meter.
Meter connection and controlling means. J. W. Calhoun. No. 1,345,124; June 29; v. 275; p. 933.
Meter-lock. H. H. Roe. No. 1,343,851; June 15; v. 275; p. 556.
Microtomes, Freezing attachment for. H. I. Gosline. No. 1,343,051; June 8; v. 275; p. 335.
Mid-ocean station. J. M. Roberts. No. 1,341,677; June 1; v. 275; p. 13.
Middlings-mill. A. Wolf. No. 1,344,470; June 22; v. 275; p. 742.
Milking-machine. A. C. Macartney. No. 1,344,140; June 22; v. 275; p. 677.
Mill: *See*—
Chilian mill. Pulverizer-mill.
Crushing-mill. Reducing-mill.
Flour-mill. Rolling-mill.
Middlings-mill. Water-mill.
Mill for rolling circular sections, Adjustable. B. F. Faunce. No. 1,341,891; June 1; v. 275; p. 54.
Milling machines, Brace for. J. C. Lawrence. No. 1,342,390; June 1; v. 275; p. 151.
Mine-door-operating mechanism, Automatic. W. Crooks. No. 1,345,074; June 29; v. 275; p. 923.
Mine, Marine. F. W. Hampton. No. 1,343,969; June 22; v. 275; p. 644.
Mine-trolleys, Cut-out switch for. J. Racosky. No. 1,343,475; June 15; v. 275; p. 480.
Mineral separation, Apparatus for. W. W. Wilson. No. 1,341,770; June 1; v. 275; p. 31.
Mining-machine. C. E. Davis. No. 1,344,201; June 22; v. 275; p. 689.
Mirror, Adjustable windshield-. M. E. Francisco. No. 1,345,157; June 29; v. 275; p. 939.
Mirror and backing same. C. E. Akeley. No. 1,342,578; June 8; v. 275; p. 242.
Mirror attachment, Adjustable. E. W. McCarroll. No. 1,342,854; June 8; v. 275; p. 297.
Mirror, Ear hand-. E. H. Roy. No. 1,342,350; June 1; v. 275; p. 144.
Mirror, Mouth hand-. E. H. Roy. No. 1,342,351; June 1; v. 275; p. 144.
Mirrors, Bracket and holder for rear-vision. H. A. Macfarland and A. J. Roth. No. 1,345,018; June 29; v. 275; p. 912.
Miter-frame clamp. O. Bergstrom. No. 1,342,892; June 8; v. 275; p. 304.
Mixer: *See*—
Beverage-mixer. Wet-mixer.
Mixer and drier, Mechanical. H. H. Bubar and C. J. Beust. No. 1,344,675; June 29; v. 275; p. 848.
Mixing-machine. J. D. Lacroix and A. H. Petersen. No. 1,344,541; June 22; v. 275; p. 756.
Mold: *See*—
Cement-block mold. Linotype-mold.
Concrete-mold. Ship-mold.
Mold. H. Petersen. No. 1,342,595; June 8; v. 275; p. 245.
Mold. C. P. Whisler. No. 1,343,425; June 15; v. 275; p. 471.
Molds, Box for forming. E. Fries. No. 1,345,160; June 29; v. 275; p. 940.
Molds, Making. J. T. Stoney. No. 1,343,941; June 22; v. 275; p. 639.
Molds with greensand cores, Making. J. L. Stoney. No. 1,344,737; June 29; v. 275; p. 859.
Molded objects and apparatus for use in connection therewith, Process of producing. P. Rauer. No. 1,342,184; June 1; v. 275; p. 112.
Molded products, Producing. L. T. Richardson. No. 1,342,067; June 1; v. 275; p. 89.
Molding hollow-bodies. C. T. Allcutt. No. 1,343,191; June 15; v. 275; p. 427.
Molding-machine. J. E. Bomberg. No. 1,343,386; June 15; v. 275; p. 464.
Molding-machine. A Diehl. No. 1,342,428; June 8; v. 275; p. 213.
Molding-machine. P. W. Gates. No. 1,344,126; June 22; v. 275; p. 674.
Molding-machine. W. Lewis. No. 1,343,835; June 15; v. 275; p. 553.
Molding-machine. J. T. Stoney. No. 1,343,940; June 22; v. 275; p. 639.
Molding-machine, Electrically-driven shaker. K. O. Dahlmeyer. No. 1,344,680; June 29; v. 275; p. 849.
Molding machine, Jar-. W. Lewis. No. 1,343,836; June 15; v. 275; p. 553.
Money-slot guard. J. Nutry. No. 1,343,151; June 8; v. 275; p. 255.
Monument. W. J. Kennedy and G. Yelle. No. 1,345,196; June 29; v. 275; p. 947.
Mop. E. E. Bessett. No. 1,344,112; June 22; v. 275; p. 671.
Mop. S. F. Petersen. No. 1,342,182; June 1; v. 275; p. 112.
Mop and brush holder. L. Weschler. No. 1,342,036; June 1; v. 275; p. 83.
Mop-frame. E. P. Beaudet. No. 1,344,936; June 29; v. 275; p. 897.
Mop-head. W. B. Beam. No. 1,344,198; June 22; v. 275; p. 688.
Moth-repellent holders, Support for. J. S. Slye and S. H. Bishop. No. 1,344,318; June 22; v. 275; p. 712.
Motor: *See*—
Air-motor. Phonograph-motor.
Hot-air motor. Spring-motor.
Hydraulic air-motor. Water-motor.
Hydrocarbon-motor.
Motor-control system. R. T. Klutzing. No. 1,341,650; June 1; v. 275; p. 7.
Motor-control system. E. S. Lammers, Jr. No. 1,341,651; June 1; v. 275; p. 7.
Motor-controller. W. M. Shallcross. No. 1,341,937; June 1; v. 275; p. 64.
Motors, Controller for. P. H. Zimmer. No. 1,343,021; June 8; v. 275; p. 329.
Motors, Method and apparatus for starting. J. H. Hartner. No. 1,343,451; June 15; v. 275; p. 476.
Motors, Pulley attachment for. W. C. Olson. No. 1,343,152; June 8; v. 275; p. 355.
Motors, Running-in machine for gasolene-. R. E. Land. No. 1,344,907; June 29; v. 275; p. 892.
Motors, Starting device for electric. G. W. Huey. No. 1,343,212; June 15; v. 275; p. 431.
Motors, Starting device for electric. P. H. Zimmer. No. 1,343,022; June 8; v. 275; p. 330.
Motors, Starting mechanism for electric. G. E. Slocum. No. 1,343,411; June 15; v. 275; p. 469.
Motorcycle. F. J. Onar. No. 1,343,788; June 15; v. 275; p. 544.
Motorcycle back-rest. C. Kuderer. No. 1,342,388; June 1; v. 275; p. 151.
Motorcycle-top. M. Chimino. No. 1,342,987; June 8; v. 275; p. 322.
Mountings, Forming filled. G. H. Day. No. 1,345,143; June 29; v. 275; p. 937.
Mounts and prints, Machine for beveling the edges of. A. P. Hoard. No. 1,343,972; June 22; v. 275; p. 644.
Mousetrap. J. R. Carson. No. 1,342,098; June 1; v. 275; p. 95.
Mousetrap. J. C. Doust. No. 1,342,255; June 1; v. 275; p. 126.
Mousetrap-pedal. J. E. Cowel. No. 1,345,137; June 29; v. 275; p. 935.
Mouth and lip protector, Sanitary. R. J. Moolten. No. 1,342,968; June 8; v. 275; p. 319.
Mower blades, Machine for sharpening lawn-. C. F. Brown. No. 1,344,168; June 22; v. 275; p. 682.
Mower, Lawn-. N. J. Beckner. No. 1,344,852; June 29; v. 275; p. 882.
Mowers, Propelling device for power lawn-. F. M. Seeley. No. 1,345,109; June 29; v. 275; p. 930.
Muffler. F. P. Sawders and J. G. Murray. No. 1,342,464; June 8; v. 275; p. 219.
Muffler, Exhaust-. G. A. Blain and J. Scherer. No. 1,344,976; June 29; v. 275; p. 904.
Mugs, Manufacture of clay. R. T. Hall. No. 1,344,885; June 29; v. 275; p. 888.
Mule, Kicking. J. T. White. No. 1,342,882; June 8; v. 275; p. 302.

Music-roll-controlling mechanism. W. G. Betz. No. 1,344,574; June 22; v. 275; p. 763.
Music-sheet container and turner, Portable. A. M. Bean. No. 1,344,374; June 22; v. 275; p. 723.
Musical instrument, Stringed. E. Re. No. 1,345,239; June 29; v. 275; p. 955.
Nail-distributing machine. J. M. Benjamin. No. 1,342,415; June 8; v. 275; p. 210.
Nails, Making weatherproof. G. E. Dickson. No. 1,342,742; June 8; v. 275; p. 273.
Navigation, Apparatus for sea. S. Koiransky. No. 1,344,903; June 29; v. 275; p. 891.
Navigator's instrument. R. W. Tucker. No. 1,345,289; June 29; v. 275; p. 965.
Necktie and pin holder. T. F. Connors. No. 1,342,796; June 8; v. 275; p. 285.
Necktie-clasp. W. M. Narbett. No. 1,345,216; June 29; v. 275; p. 951.
Necktie form and holder. W. A. Smith. No. 1,344,248; June 22; v. 275; p. 697.
Needle holder, Knitting-. W. C. Rhodes. No. 1,344,821; June 29; v. 275; p. 876.
Needle, Talking-machine. F. W. Williams. No. 1,344,839; June 29; v. 275; p. 880.
Nest. G. H. Williams. No. 1,343,071; June 8; v. 275; p. 339.
Nest, Automatic trap-. A. H. Petit. No. 1,345,229; June 29; v. 275; p. 953.
Nest, Hen's. L. C. Lux. No. 1,345,205; June 29; v. 275; p. 949.
Newspaper. E. H. Cottress. No. 1,341,633; June 1; v. 275; p. 4.
Newspaper. E. H. Cottrell. No. 1,341,634; June 1; v. 275; p. 4.
Nitrogen, Fixing. A. T. Thorssell and H. L. R. Lundén. No. 1,342,834; June 8; v. 275; p. 393.
Nitrostarch, Stabilizing. B. J. Flurschelm. No. 1,343,317; June 15; v. 275; p. 450.
Non-skid and tractor device. G. Crisamore. No. 1,344,678; June 29; v. 275; p. 849.
Non-skid device. W. C. McGeorge. No. 1,342,753; June 8; v. 275; p. 276.
Nozzle and sprayer, Liquid. H. Murphy. No. 1,342,027; June 1; v. 275; p. 81.
Nozzle, Atomizing-. M. R. Wolford. No. 1,342,486; June 8; v. 275; p. 223.
Nozzle-can. L. Klingman. No. 1,343,921; June 22; v. 275; p. 635.
Nozzle, Flushing-. J. McNeil. No. 1,342,124; June 1; v. 275; p. 100.
Nozzle, Product-picking. H. H. Holdaway and T. R. Gabel. No. 1,344,205; June 22; v. 275; p. 689.
Nozzles, Cleaner for blow-torch. O. Bernz. No. 1,343,705; June 15; v. 275; p. 527.
Nut-blanks, Making. E. Hollings. No. 1,342,676; June 8; v. 275; p. 260.
Nut-cracking machine. F. A. G. Pape. No. 1,342,690; June 8; v. 275; p. 263.
Nut-cracking machine. F. A. G. Pape. No. 1,342,692; June 8; v. 275; p. 263.
Nut-lock. A. Anderson. No. 1,344,845; June 29; v. 275; p. 881.
Nut-lock. J. F. Comly. No. 1,344,534; June 22; v. 275; p. 755.
Nut-lock. S. S. Eisenhart. No. 1,344,684; June 29; v. 275; p. 849.
Nut-lock. W. F. Evans. No. 1,341,741; June 1, v. 275; p. 25.
Nut-lock. W. S. Pierce, Jr. No. 1,343,334; June 15; v. 275; p. 453.
Nut-lock. M. B. Reed. No. 1,342,508; June 8; v. 275; p. 228.
Nut, Lock-. W. R. Lorenz. No. 1,344,544; June 22; v. 275; p. 757.
Nut-marking machine. W. D. Simpson. No. 1,343,007; June 22; v. 275; p. 651.
Nuts, Apparatus for removing the outer shells or husks from palm-. F. A. G. Pape. No. 1,342,693; June 8; v. 275; p. 264.
Nuts, Method and machine for cracking. F. A. G. Pape. No. 1,342,689; June 8; v. 275; p. 263.
Nuts, Method and machine for cracking. F. A. G. Pape. No. 1,342,691; June 8; v. 275; p. 263.
Nutcracker. C. Smith. No. 1,344,731; June 29; v. 275; p. 858.
Oil, Apparatus for burning. A. Fischer. No. 1,344,029; June 22; v. 275; p. 656.
Oil-burner. C. E. Brown. No. 1,344,978; June 29; v. 275; p. 905.
Oil-burner. S. A. Graffunder. No. 1,341,797; June 1; v. 275; p. 37.
Oil-burner. R. Hoffman. No. 1,343,673; June 15; v. 275; p. 521.
Oil-burner. R. Hoffman. No. 1,343,672; June 15; v. 275; p. 520.
Oil-burner. C. C. Manker. No. 1,344,421; June 22; v. 275; p. 732.
Oil burner, Fuel-. A. R. Anthony. No. 1,342,732; June 8; v. 275; p. 271.
Oil burner, Fuel-. W. M. Hoffman. No. 1,341,643; June 1; v. 275; p. 5.
Oil burner, Fuel-. W. M. Hoffman. No. 1,341,644; June 1; v. 275; p. 6.
Oil burners, apparatus for operating and controlling fuel-. W. M. Hoffman. No. 1,341,642; June 1; v. 275; p. 5.
Oil-cooling apparatus. O. C. Funderburk. No. 1,343,669; June 15; v. 275; p. 520.
Oil drilling and pumping rigs, Adjustable follower-block for. F. E. Braile. No. 1,341,968; June 1; v. 275; p. 70.
Oil-heaters and lamps, Safety device for. J. L. MacDowall and W. K. Bassford. No. 1,343,217; June 15; v. 275; p. 432.
Oil-machine. A. Chermak. No. 1,344,261; June 22; v. 275; p. 700.
Oil, Making gas-. C. Ellis. No. 1,341,975; June 1; v. 275; p. 71.
Oil solution, Preparing creosote-. G. A. Cook. No. 1,342,942; June 8; v. 275; p. 314.
Oil-still. W. M. Duncan. No. 1,342,947; June 8; v. 275; p. 315.
Oil-tank. T. J. Rutherford. No. 1,343,480; June 15; v. 275; p. 481.
Oils and hydrocarbon material from shale and similar bituminous rocks, Extracting. D. T. Day. No. 1,342,741; June 8; v. 275; p. 273.
Oils, Distillation of petroleum-. R. E. Humphreys and W. M. Burton. No. 1,343,674; June 15; v. 275; p. 521.
Oils, Treating fatty. C. Ellis. No. 1,343,255; June 15; v. 275; p. 439.
Oils, Vaporizer for heavy. C. C. Manker. No. 1,343,635; June 15; v. 275; p. 513.
Oils, Vaporizer for heavy. C. C. Manker. No. 1,344,423; June 22; v. 275; p. 733.
Oiler, Automatic. R. G. Fiege. No. 1,344,078; June 22; v. 275; p. 665.
Oiler, Spring-. H. A. Wimperis. No. 1,342,365; June 1; v. 275; p. 146.
Oilers, &c., Automatic means for operating flange-. C. F. Hoofer. No. 1,343,973; June 22; v. 275; p. 644.
Ophthalmic-lens frame. E. J. R. Beattey. No. 1,344,474; June 22; v. 275; p. 743.
Ophthalmic mounting. G. H. Day. No. 1,343,437; June 15; v. 275; p. 474.
Ophthalmic mounting. G. H. Day. No. 1,344,293; June 22; v. 275; p. 707.
Ophthalmic mounting. W. S. Searles. No. 1,345,029; June 29; v. 275; p. 915.
Ophthalmic mountings, Construction of. O. G. Schutze. No. 1,343,090; June 8; v. 275; p. 343.
Oranges, Treating. M. Henius. No. 1,343,915; June 22; v. 275; p. 634.
Ordnance device. W. B. D. Gay. No. 1,343,557; June 15; v. 275; p. 498.
Ordnance recoil and run-out apparatus. A. T. Dawson and G. T. Buckham. No. 1,342,709; June 8; v. 275; p. 267.
Ordnance recoil and run-out apparatus. A. T. Dawson and G. T. Buckham. No. 1,344,621; June 29; v. 275; p. 837.
Ordnance, Recoil and run-out gear for. A. T. Dawson and G. T. Buckham. No. 1,342,708; June 8; v. 275; p. 266.
Ore-concentrating table. B. A. Hughes. No. 1,343,266; June 15; v. 275; p. 440.
Ore-feeder. C. C. Hamill. No. 1,343,868; June 15; v. 275; p. 560.
Ore-flotation apparatus. R. Gahl and R. M. Haskell. No. 1,343,123; June 8; v. 275; p. 350.
Ore grinder and amalgamator, Combined. W. De Coursey. No. 1,343,041; June 8; v. 275; p. 333.
Ore-separator, Centrifugal. J. A. Rice. No. 1,344,519; June 22; v. 275; p. 752.
Ores for sintering and product thereof, Preparing fine. F. A. Eustis. No. 1,341,890; June 1; v. 275; p. 54.
Ores or other materials, Process and apparatus for concentrating. S. H. Dolbear. No. 1,343,313; June 15; v. 275; p. 449.
Ores, Treating. G. L. Collord. No. 1,343,249; June 15; v. 275; p. 438.
Ores, Treating. G. L. Collord. No. 1,343,250; June 15; v. 275; p. 438.
Orientator. W. G. Ruggles. No. 1,342,871; June 8; v. 275; p. 300.
Orifice-precipitator. L. Bradley. No. 1,344,330; June 22; v. 275; p. 714.
Ornament-support. J. E. Evilsizor and C. Follrath. No. 1,344,027; June 22; v. 275; p. 655.
Oscillations, Receiving high-frequency. E. H. Armstrong. No. 1,342,885; June 8; v. 275; p. 303.
Oven. D. J. Monihan. No. 1,342,455; June 8; v. 275; p. 218.
Oven. J. W. Whittinghill. No. 1,341,829; June 1; v. 275; p. 43.
Oven, Bake-. C. Rinck. No. 1,345,107; June 29; v. 275; p. 929.
Oven or furnace. G. M. Hollenbeck. No. 1,341,903; June 1; v. 275; p. 57.
Overshot. J. A. Plante. No. 1,345,103; June 29; v. 275; p. 929.
Oxids, Method of and apparatus for reducing metallic. A. E. Bourcoud. No. 1,344,977; June 29; v. 275; p. 904.
Package, Air or moisture proof. J. S. Stokes. No. 1,343,235; June 15; v. 275; p. 435.
Package, Merchandise-. J. Hofmann. No. 1,345,185; June 29; v. 275; p. 945.
Package opening means. R. T. Frost. No. 1,343,360; June 15; v. 275; p. 458.

Packing. A. P. Anderson. No. 1,342,198; June 1; v. 275; p. 115.
Packing-tool. V. Doyle. No. 1,341,888; June 1; v. 275; p. 54.
Pad: *See*—
Sanitary pad.
Sled-pad.
Padlock, Permutation-. H. N. Tennille. No. 1,342,033; June 1; v. 275; p. 82.
Paint composition. D. Campbell. No. 1,344,861; June 29; v. 275; p. 883.
Paint composition. A. G. Christman and C. W. Kaepp. No. 1,342,497; June 8; v. 275; p. 225.
Paintbrush, Fountain-. R. Hainsey. No. 1,342,211; June 1; v. 275; p. 118.
Painter's striping mechanism. V. Jansen. No. 1,341,803; June 1; v. 275; p. 38.
Painting apparatus. R. Hainsey. No. 1,342,212; June 1; v. 275; p. 118.
Pan: *See*—
Bake-pan.
Pie-pan.
Flue-pan.
Sterilizing-pan.
Panic-bolt. H. G. Volght. No. 1,345,041; June 29; v. 275; p. 917.
Paper and making it, Wall-. J. J. Warren. No. 1,344,570; June 22; v. 275; p. 762.
Paper bottle. A. J. Selz. No. 1,342,769; June 8; v. 275; p. 279.
Paper bottle. A. J. Selz. No. 1,342,770; June 8; v. 275; p. 279.
Paper-box dies and for use in type compositions, Furniture for forming. F. L. Schley. No. 1,344,657; June 29; v. 275; p. 844.
Paper cardboard, and the like, Proceeding for the production of paste destined for manufacture of. C. O. Lottero. No. 1,341,991; June 1; v. 275; p. 74.
Paper-clip. H. Baldwin. No. 1,344,473; June 22; v. 275; p. 743.
Paper-cutting machines, Angle-gage attachment for. H. Stengel. No. 1,345,033; June 29; v. 275; p. 915.
Paper-disk holder. J. Lackner. No. 1,344,802; June 29; v. 275; p. 873.
Paper-file. M. B. Johnson. No. 1,342,504; June 8; v. 275; p. 227.
Paper-hanger machine. R. J. Banse. No. 1,343,106; June 8; v. 275; p. 346.
Paper-hanging device. N. H. Lamb. No. 1,344,906; June 29; v. 275; p. 892.
Paper-machines, Guide-roll for. R. J. Byron. No. 1,344,171; June 22; v. 275; p. 683.
Paper-making apparatus. J. J. Warren. No. 1,344,603; June 22; v. 275; p. 769.
Paper-making machine. A. J. Haug. No. 1,343,505; June 15; v. 275; p. 487.
Paper-making machine. H. G. Van Ornum. No. 1,342,655; June 8; v. 275; p. 256.
Paper-package and closure therefor. E. F. Hulbert. No. 1,343,724; June 15; v. 275; p. 531.
Paper-reinforcing machine. C. H. Howard. No. 1,341,981; June 1; v. 275; p. 72.
Paper-roll support. E. L. Reed. No. 1,341,862; June 1; v. 275; p. 49.
Paper tubes to winders, Tool for attaching. C. L. Lytton. No. 1,343,632; June 15; v. 275; p. 512.
Parachute. J. A. El Vean. No. 1,341,794; June 1; v. 275; p. 36.
Parachute. A. Kaminski. No. 1,344,044; June 22; v. 275; p. 659.
Parasol. J. Levin. No. 1,342,451; June 8; v. 275; p. 217.
Parasols, umbrellas, Detachable handle construction for. W. H. Beehler. No. 1,342,320; June 1; v. 275; p. 138.
Pastry forms, Apparatus for making. E. A. Hamwi. No. 1,342,045; June 1; v. 275; p. 85.
Paving-block. R. H. Irons. No. 1,344,895; June 29; v. 275; p. 890.
Paving-joint, Elastic or expansible. W. J. Moeller. (Reissue.) No. 14,871; June 1; v. 275; p. 156.
Paving plant, Portable. F. B. Totman. No. 1,341,948; June 1; v. 275; p. 66.
Pedestal support, Oscillating-. P. D. McFarlane. No. 1,344,806; June 29; v. 275; p. 873.
Peeling machine, Fruit-. M. E. Dunkley. No. 1,341,738; June 1; v. 275; p. 25.
Pen. H. B. Wardin. No. 1,345,044; June 29; v. 275; p. 918.
Pen and pencil attachment. L. S. Zebrock, Jr. No. 1,343,245; June 15; v. 275; p. 437.
Pen, Fountain-. H. W. Haslup. No. 1,341,850; June 1; v. 275; p. 47.
Pen, Fountain-. M. Borbeck. No. 1,342,736; June 8; v. 275; p. 272.
Pen, Fountain-. A. C. Rader. No. 1,343,521; June 15; v. 275; p. 490.
Pen, Hinged ruling-. F. W. Kluever. No. 1,344,045; June 22; v. 275; p. 659.
Pen-locking clip, Fountain-. D. F. Johnson. No. 1,344,897; June 29; v. 275; p. 890.
Pencil and igniter. L. V. Aronson. No. 1,342,838; June 8; v. 275; p. 294.
Pencil, Lead-. M. O. Borbeck. No. 1,342,416; June 8; v. 275; p. 210.
Pencil, Mechanical. R. G. C. Boa. No. 1,344,434; June 22; v. 275; p. 735.
Pencils, Pen attachment for. H. D. Fiegel. No. 1,345,155; June 29; v. 275; p. 939.
Penholder. C. E. Baldwin. No. 1,344,329; June 22; v. 275; p. 714.
Penholder, Writing-position. J. W. Griffith. No. 1,341,847; June 1; v. 275; p. 46.
Penholders and pencils to assist in the practice of penmanship, Attachment for. G. T. Wride. No. 1,342,576; June 8; v. 275; p. 242.
Penmanship, Device for teaching. J. D. W. Williams. No. 1,343,244; June 15; v. 275; p. 437.
Periscope. H. H. Styll. No. 1,341,683; June 1; v. 275; p. 14.
Permutation-lock. J. P. Geraghty. No. 1,343,048; June 8; v. 275; p. 335.
Permutation-lock. M. Kosich. No. 1,343,145; June 8; v. 275; p. 354.
Peroxid, Forming manganese. H. C. Chapin. No. 1,343,390; June 15; v. 275; p. 465.
Petrol or gasolene, Making. C. R. Burke. No. 1,344,258; June 22; v. 275; p. 700.
Phenol and other aromatic hydrocarbons from water or other liquids, Removing. R. M. Leggett. No. 1,341,913; June 1; v. 275; p. 59.
Phenolic condensation products, Manufacture of. C. A. Nash. No. 1,343,575; June 15; v. 275; p. 501.
Phonograph. H. Guilbert. No. 1,342,284; June 1; v. 275; p. 132.
Phonograph attachment. R. W. Morrison. No 1,344,186; June 22; v. 275; p. 686.
Phonograph-brake. J. H. Kuns. No. 1,342,023; June 1; v. 275; p. 80.
Phonograph-motor. A. Roemer. No. 1,343,584; June 15; v. 275; p. 503.
Phonograph, Multiple-record-repeating. C. M. Heck. No. 1,342,442; June 8; v. 275; p. 215.
Phonograph-needle. J. Heino. No. 1,343,507; June 15; v. 275; p. 487.
Phonograph sound-box. E. Cassca. No. 1,342,663; June 8; v. 275; p. 257.
Photo-sticker. E. V. Bloomquist. No. 1,342,248; June 1; v. 275; p. 125.
Photographic arts, Process and apparatus for making a translucent medium for use in the. F. W. Hochstetter. No. 1,345,184; June 29; v. 275; p. 945.
Photographic film. F. W. Lovejoy. No. 1,342,590; June 8; v. 275; p. 244.
Photographic-plate holder. Y. Yamada. No. 1,343,653; June 15; v. 275; p. 516.
Photographic surfaces and article, Preserving sensitized. F. P. McColl and W. W. Willison. No. 1,344,240; June 22; v. 275; p. 696.
Piano-actions, Flexible striking device for. N. M. Ong. No. 1,342,029; June 1; v. 275; p. 81.
Piano-bridle-strap fastener. T. J. Malcolm. No. 1,343,516; June 15; v. 275; p. 489.
Piano, Player-. F. W. Bull. No. 1,344,984; June 29; v. 275; p. 906.
Piano-player, Mechanical. C. H. Taylor. No. 1,343,237; June 15; v. 275; p. 436.
Pianos, Controlling mechanism for player-. C. Freborg. No. 1,343,442; June 15; v. 275; p. 475.
Pianos, Incorrect-position indicator for. L. L. Tiffany. No. 1,343,595; June 15; v. 275; p. 505.
Piano-players, Pressure-reserve method and mechanism for. J. W. Dickinson. No. 1,344,386; June 22; v. 275; p. 725.
Pick-handles, Guard for. C. D. Brosch. No. 1,342,495; June 8; v. 275; p. 225.
Picker: *See*—
Potato-picker.
Picker-head. C. N. Wisner. No. 1,341,959; June 1; v. 275; p. 68.
Picture and sound-reproducing apparatus, Motion-. J. G. Saltzman. No. 1,341,933; June 1; v. 275; p. 63.
Picture-film band, Non-slip motion-. W. L. Clarke, Jr. No. 1,345,129; June 29; v. 275; p. 934.
Picture films, Coloring moving-. E. S. Gillespie. No. 1,342,803; June 8; v. 275; p. 287.
Picture-frame. A. Walas. No. 1,342,477; June 8; v. 275; p. 222.
Picture-frame, Adjustable. K. Chrobak. No. 1,341,971; June 1; v. 275; p. 70.
Picture-hook. L. S. Tyler. No. 1,343,855; June 15; v. 275; p. 557.
Picture kinetograph and exposing films, Motion-. L. Brown. No. 1,344,616; June 29; v. 275; p. 636.
Picture machine, Combination talking and moving. P. T. L. Champeix. No. 1,345,128; June 29; v. 275; p. 934.
Picture machine, Motion-. C. F. Jenkins. No. 1,342,681; June 8; v. 275; p. 261.
Picture-projecting mechanism, Motion-. A. Chiarelli. No. 1,342,040; June 1; v. 275; p. 84.
Picture projectors, Safety device for motion-. H. D. Dreyfus. No. 1,342,429; June 8; v. 275; p. 213.
Pie-pan. G. A. Kinkel. No. 1,343,395; June 15; v. 275; p. 466.
Pigment and its manufacture. V. M. Goldschmidt. No. 1,343,446; June 15; v. 275; p. 475.
Pigment containing titanium-oxygen compound. V. M. Goldschmidt. No. 1,343,447; June 15; v. 275; p. 475.
Pigment-powder for making smear-proof impressions. S. M. McMurray. No. 1,342,638; June 8; v. 275; p. 252.
Pigments, Producing. R. Nielsen and V. M. Goldschmidt. No. 1,343,468; June 15; v. 275; p. 479.

Pile fabric. G. Koch. No. 1,342,589; June 8; v. 275; p. 244.
Piling-machine. C. Taylor, and B. H. Saunders. No. 1,342,190; June 1; v. 275; p. 114.
Piling, Sheet-. E. Troye. No. 1,341,949; June 1; v. 275; p. 66.
Pin: *See*—
Brake-pin.
Stacking-pin.
Pipe: *See*—
Concrete pipe.
Locomotive blast-pipe.
Pipe and means for connecting same. E. T. Greenfield. No. 1,344,032; June 22; v. 275; p. 656.
Pipe-bending mechanism. U. S. Morris. No. 1,342,564; June 8; v. 275; p. 239.
Pipe-blister-removing device. W. Ludwig. No. 1,343,571; June 15; v. 275; p. 500.
Pipe-clamp. J. E. Branin. No. 1,343,548; June 15; v. 275; p. 496.
Pipe-coupling. W. Louden. No. 1,344,914; June 29; v. 275; p. 894.
Pipe coupling, Fluid-. B. Grenci. No. 1,343,819; June 15; v. 275; p. 550.
Pipe-fitting. H. Saucke. No. 1,342,825; June 8; v. 275; p. 291.
Pipe-joint, Flexible. G. J. Thomassen. No. 1,344,834; June 29; v. 275; p. 879.
Pipe-line. F. Urbina. No. 1,344,321; June 22; v. 275; p. 712.
Pipe-puller. S. Robichaux and C. Paggi. No. 1,342,870; June 8; v. 275; p. 300.
Pipe-turner. J. Becker. No. 1,343,300; June 15; v. 275; p. 447.
Pipe-wrench. R. B. Shook. No. 1,342,356; June 1; v. 275; p. 145.
Pipes, Clip for stopping leakage in damaged. T. D. Meredith. No. 1,343,463; June 15; v. 275; p. 478.
Pipes, Hose pressure applicable to pressure and vacuum brake. E. Kessler. No. 1,343,084; June 8; v. 275; p. 342.
Pipes, Machine for threading. J. A. Reese. No. 1,343,158; June 8; v. 275; p. 356.
Pipes, Water-submerged air-chamber for water-. H. H. York. No. 1,342,491; June 8; v. 275; p. 224.
Piping. C. M. Buller. No. 1,343,706; June 15; v. 275; p. 527.
Pistol, Automatic. J. N. H. J. Guyot. No. 1,344,884; June 29; v. 275; p. 888.
Piston. A. Nitka. No. 1,345,221; June 29; v. 275; p. 951.
Piston packing-ring. O. W. Hanson. No. 1,344,342; June 22; v. 275; p. 717.
Piston-ring. F. Hachmann. No. 1,342,380; June 1; v. 275; p. 149.
Piston-ring. R. M. Jordan. No. 1,343,828; June 15; v. 275; p. 552.
Piston-ring grooves, Carbon-scrapers for. O. A. Muller. No. 1,345,215; June 29; v. 275; p. 951.
Piston-rings, apparatus for manufacturing. F. Ray. No. 1,341,671; June 1; v. 275; p. 11.
Piston-rings, Machine for manufacturing. H. S. Frank. No. 1,345,000; June 29; v. 275; p. 909.
Pistons, Making. J. Flammang. No. 1,344,875; June 29; v. 275; p. 886.
Pitchers, Removable top for. D. A. Jenkins. No. 1,344,404; June 22; v. 275; p. 729.
Plane. W. C. Bowlen. No. 1,342,154; June 1; v. 275; p. 106.
Planes, Adjustable gage for. L. C. Payne. No. 1,341,820; June 1; v. 275; p. 41.
Planes when stationary and moving, Modification of. J. T. Patterson. No. 1,344,248; June 22; v. 275; p. 697.
Planers and current-controlling system therefor, Electric feed mechanism for. S. P. Johnson. No. 1,342,915; June 8; v. 275; p. 308.
Planter. F. H. Schutter. No. 1,343,286; June 15; v. 275; p. 444.
Planter, Seed-. G. F. Johnson. No. 1,344,764; June 29; v. 275; p. 865.
Plaster-board, Method of and machine for handling. O. L. Routt, G. C. McConnell, and J. H. L. Glaze. No. 1,342,185; June 1; v. 275; p. 113.
Plastic composition. A. L. V. Nilsson. No. 1,344,058; June 22; v. 275; p. 662.
Plastic materials, Apparatus for molding. G. R. Trevillian. No. 1,342,192; June 1; v. 275; p. 114.
Plastics, Treating vulcanizable. J. J. Shea. No. 1,343,377; June 15; v. 275; p. 462.
Plate-clamp. J. White. No. 1,345,300; June 29; v. 275; p. 968.
Platinum and similar metals from their sands and ores, Extracting. R. Thayer. No. 1,341,686; June 1; v. 275; p. 14.
Playground apparatus. E. L. Senseman and A. P. Zeigler. No. 1,344,725; June 29; v. 275; p. 857.
Pliers. L. D. Fowler. No. 1,344,629; June 29; v. 275; p. 839.
Pliers. D. B. Swickard. No. 1,345,035; June 29; v. 275; p. 916.
Plow. E. M. Heylman. No. 1,344,586; June 22; v. 275; p. 765.
Plow. L. W. Stickley. No. 1,345,275; June 29; v. 275; p. 962.
Plow. W. Wendtland, Sr. No. 1,342,836; June 8; v. 275; p. 293.
Plow-beams, Draft-head for. E. G. Hines. No. 1,344,131; June 22; v. 275; p. 675.
Plow construction. W. Kalicki. No. 1,342,386; June 1; v. 275; p. 150.
Plow, Light-tractor gang-. I. A. Weaver. No. 1,342,479; June 8; v. 275; p. 222.
Plow, Motor-. R. and L. L. Moser. No. 1,344,708; June 29; v. 275; p. 853.
Plow, Tractor rotary. S. T. Ingram. No. 1,342,815; June 8; v. 275; p. 289.
Plug, Connector-. C. D. Lake. No. 1,342,819; June 8; v. 275; p. 290.
Plug, Connecting-. S. J. La Montaine. No. 1,343,676; June 15; v. 275; p. 521.
Pneumatic controller. S. B. T. Worden. No. 1,344,328; June 22; v. 275; p. 714.
Pneumatic cushion. A. C. Eggers. No. 1,343,357; June 15; v. 275; p. 458.
Pneumatic mechanism. J. O'Connor. No. 1,342,180; June 1; v. 275; p. 112.
Pneumatic wheel. E. B. Hudson. No. 1,344,401; June 22; v. 275; p. 728.
Pocket accounting device. M. L. Buchheim. No. 1,342,707; June 8; v. 275; p. 266.
Pocket box or container. J. Peterson. No. 1,344,650; June 29; v. 275; p. 843.
Pocket, Garment-. H. Brown. No. 1,344,075; June 22; v. 275; p. 665.
Pocket, Garment-. J. Gunderson. No. 1,342,168; June 1; v. 275; p. 109.
Pocket-guard. C. H. Long. No. 1,343,371; June 15; v. 275; p. 461.
Polish, Wood and metal. J. Friedman. No. 1,343,259; June 15; v. 275; p. 439.
Polysulfid solutions, Treating. E. C. Holton. (Reissue.) No. 14,890; June 22; v. 275; p. 771.
Porcelain. C. Dantsizen. No. 1,343,040; June 8; v. 275; p. 333.
Portable burner. E. Rector. No. 1,341,672; June 1; v. 275; p. 12.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,344,271; June 22; v. 275; p. 703.
Portable elevator. E. N. Hescock and E. F. Smith. No. 1,344,272; June 22; v. 275; p. 703.
Post: *See*—
Survey-post.
Post-splicing clamp. H. O. McMillan. No. 1,344,139; June 22; v. 275; p. 677.
Pot: *See*—
Coffee-pot.
Pot-lifter. V. Puchazckevski. No. 1,342,758; June 8; v. 275; p. 277.
Potash, Recovering. A. C. Spencer. No. 1,344,850; June 29; v. 275; p. 878.
Potassium, Treating minerals containing. A. Messerschmitt. No. 1,344,705; June 29; v. 275; p. 853.
Potato-bug-trapping machine. J. M. Drake. No. 1,344,119; June 22; v. 275; p. 673.
Potato-picker. C. Sang. No. 1,343,586; June 15; v. 275; p. 503.
Pouch, Medical. W. E. Eaton. No. 1,342,432; June 8; v. 275; p. 213.
Poultry-fountain and heater therefor. T. Scheil. No. 1,343,010; June 8; v. 275; p. 327.
Pouring vessel. R. N. Griner. No. 1,344,688; June 29; v. 275; p. 850.
Powder-box, Sifter M. K. Turner. No. 1,341,951; June 1; v. 275; p. 67.
Power-developing apparatus. H. T. Herr. No. 1,343,671; June 15; v. 275; p. 520.
Power device, Auxiliary. J. Cowley and R. C. Dils. No. 1,344,582; June 22; v. 275; p. 764.
Power-generating system. G. Yanacopoulos. No. 1,342,318; June 1; v. 275; p. 138.
Power plant. R. H. Olley. No. 1,344,814; June 29; v. 275; p. 875.
Power plants, Manufacture of. H. D. Shamberg. No. 1,343,485; June 15; v. 275; p. 483.
Power-presses, Automatic clutch control for. B. J. Lindgren. No. 1,342,965; June 8; v. 275; p. 318.
Power-transmission device. M. J. Saltzman. No. 1,342,649; June 8; v. 275; p. 254.
Power-transmitting mechanism. L. Melanowski. No. 1,342,687; June 8; v. 275; p. 262.
Power-wrench. G. D. Alexander. No. 1,341,700; June 1; v. 275; p. 17.
Preserving-jar. W. F. Balcom. No. 1,342,039; June 1; v. 275; p. 84.
Press: *See*—
Arbor-press.
Leather-press.
Barrel, wine, and lard press.
Printing-press.
Worm-press.
Filter-press.
Press-guard. A. F. Love and J. Nicoletti. No. 1,343,178; June 8; v. 275; p. 360.
Press or stamping-machine. F. M. Opitz. No. 1,341,721; June 1; v. 275; p. 21.
Presses, Controlling device for punch-. W. J. Parkinson. No. 1,343,580; June 15; v. 275; p. 502.
Presses, Lifting-cylinder valve for forging-. A. P. Bark. No. 1,343,024; June 8; v. 275; p. 330.
Presses, Magnetic feeding device for blanking-. R. S. Smith. No. 1,343,648; June 15; v. 275; p. 516.

Pressure-gage. W. M. Fulton. No. 1,344,340; June 22; v. 275; p. 716.
Pressure-regulator. E. J. Schmidt. No. 1,343,160; June 8; v. 275; p. 357.
Printers' roller composition, Apparatus for the reclaiming of used. T. H. Grozier. No. 1,344,270; June 22; v. 275; p. 702.
Printer's table. E. L. and J. West. No. 1,343,600; June 15; v. 275; p. 506.
Printing-machine. H. L. Dodge. No. 1,344,489; June 22; v. 275; p. 746.
Printing machine, Fabric-. D. L. Snow. No. 1,342,722; June 8; v. 275; p. 269.
Printing-machine having an oscillating impression-cylinder. C. Winkler. No. 1,345,302; June 29; v. 275; p. 968.
Printing machine, Web-. O. L. Raabe. No. 1,343,931; June 22; v. 275; p. 637.
Printing-machines, Delivery mechanism for. A. H. Smith. No. 1,342,187; June 1; v. 275; p. 113.
Printing-machines, Filling-in attachment for. E. Duscher. No. 1,343,170; June 8; v. 275; p. 359.
Printing-plate clamp. W. M. Evensen. No. 1,344,939; June 29; v. 275; p. 898.
Printing-plates, Holding device for. J. C. Mast. No. 1,343,220; June 15; v. 275; p. 433.
Printing-plates. Means for preventing creeping of. C. Nordfors. No. 1,344,648; June 29; v. 275; p. 843.
Printing-press. J. White. No. 1,341,693; June 1; v. 275; p. 16.
Printing-press, Inking-roll truck for. J. H. Schussler. No. 1,342,355; June 1; v. 275; p. 145.
Printing-press roller. L. La Tour and A. F. Munnell. No. 1,345,200; June 29; v. 275; p. 948.
Printing-presses, Buffer for. E. F. Dudley. No. 1,344,683; June 29; v. 275; p. 849.
Printing-presses, Inking mechanism for. H. M. Barber. No. 1,341,627; June 1; v. 275; p. 3.
Printing-presses, Sheet-guide for. C. F. Huneycutt. No. 1,342,113; June 1; v. 275; p. 98.
Printing-presses, Web-tension brake mechanism for. T. J. Beregh. No. 1,342,525; June 8; v. 275; p. 231.
Printing-roller composition. A. L. Freedlander. No. 1,344,631; June 29; v. 275; p. 839.
Printing-stamp, Self-inking. G. A. W. Rushworth. No. 1,345,255; June 29; v. 275; p. 958.
Projectile. K. Dougan. No. 1,341,844; June 1; v. 275; p. 46.
Projectile. M. Radakovich. No. 1,343,747; June 15; v. 275; p. 536.
Projectile and means for firing said projectile. J. W. Darley, Jr. No. 1,344,992; June 29; v. 275; p. 907.
Projection apparatus. L. de Hernández. No. 1,344,682; June 29; v. 275; p. 849.
Projection apparatus. H. N. Ott, and F. H. Bufton. No. 1,341,665; June 1; v. 275; p. 10
Projection apparatus. H. N. Ott and F. H. Bufton. No. 1,341,666; June 1; v. 275; p. 10.
Projection-objectives, Adjusting means for. H. N. Ott, and F. H. Bufton. No. 1,341,667; June 1; v. 275; p. 10.
Projector. E. L. Gilmore. No. 1,345,084; June 29; v. 275; p. 925.
Propeller. R. C. Pratt. No. 1,345,237; June 29; v. 275; p. 955.
Propeller-blade. V. H. Leinweber. No. 1,344,640; June 29; v. 275; p. 841.
Protective device. E. B. Wedmore. No. 1,343,018; June 8; v. 275; p. 329.
Puddling iron. T. F. Payne. No. 1,342,694; June 8; v. 275; p. 264.
Puller: *See*—
Gear-puller. Spike-puller.
Pipe-puller. Stopper-puller.
Pulley, brake, and grip. A. Vanderdonck. No. 1,345,292; June 29; v. 275; p. 966.
Pulley, Crank-shaft transmission-. J. W. B. Ladd and R. E. Rich. No. 1,341,914; June 1; v. 275; p. 59.
Pulleys, Device for babbitting. C. Halverson. No. 1,343,128; June 8; v. 275; p. 351.
Pulp, Apparatus and process for producing. H. E. Ellis. No. 1,344,625; June 29; v. 275; p. 838.
Pulp distributer, Rock-. W. T. Varney. No. 1,342,727; June 8; v. 275; p. 271.
Pulp, Grinding-apparatus for manufacture of wood-. P. C. Schaanning. No. 1,342,231; June 1; v. 275; p. 122.
Pulp having wax-impregnated fibers, Preparing. F. B. Davidson. No. 1,344,620; June 29; v. 275; p. 837.
Pulp liquor, Refining raw wood-. P. Hein. No. 1,344,691; June 29; v. 275; p. 851.
Pulp-machine. J. G. Carrier. No. 1,344,173; June 22; v. 275; p. 683.
Pulp-machine, Wet. H. A. Constantine. No. 1,344,024; June 22; v. 275; p. 654.
Pulp separators, Automatic density-indicator for slime-. C. Allen. No. 1,344,370; June 22; v. 275; p. 722.
Pulverizer-mill. J. W. Fuller. No. 1,345,082; June 29; v. 275; p. 925.
Pulverulent materials, Packaging. J. Wander. No. 1,344,664; June 29; v. 275; p. 846.
Pump. A. G. Browning. No. 1,342,087; June 1; v. 275; p. 93.
Pump. D. Farrand. No. 1,342,798; June 8; v. 275; p. 286.
Pump. J. Loftus. No. 1,342,176; June 1; v. 275; p. 111.
Pump. E. F. Porter. No. 1,341,669; June 1; v. 275; p. 11.
Pump. J. K. Putnam. No. 1,343,157; June 8; v. 275; p. 356.
Pump, Centrifugal. F. W. Krogh. No. 1,342,552; June 8; v. 275; p. 237.
Pump, Counterbalanced. C. E. Anderson. No. 1,343,427; June 15; v. 275; p. 472.
Pump, Deep-well propeller-screw. F. W. Krogh. No. 1,342,551; June 8; v. 275; p. 236.
Pump, Dispensing-. W. G. Burns. No. 1,344,985; June 29; v. 275; p. 906.
Pump, Double-acting high-pressure. E. Rodriguez. No. 1,342,719; June 8; v. 275; p. 269.
Pump, Engine fuel-. A. S. Hawks. No 1,341,640; June 1; v. 275; p. 5.
Pump for excavating air from condensers, refrigerating plants, and the like, Air-. B. and F. Ljungström. No. 1,343,922; June 22; v. 275; p. 635.
Pump, Internal-combustion engine. C. C. Thomas. No. 1,343,693; June 15; v. 275; p. 525.
Pump-operating mechanism. T. R. Minert. No. 1,344,056; June 22; v. 275; p. 661.
Pump, Pneumatic. G. W. Goss. No. 1,344,883; June 29; v. 275; p. 887.
Pump, Pneumatic. G. M. Russell. No. 1,343,004; June 8; v. 275; p. 326.
Pump-priming device, Automatic. R. Miller. No. 1,343,574; June 15; v. 275; p. 501.
Pump with sight-feed, Automatic oil-. J. J. Langmack. No. 1,343,677; June 15; v. 275; p. 521.
Pumps, Automatic valve for air-lift. H. T. Abrams. No. 1,343,190; June 15; v. 275; p. 427.
Pumps, Construction of force or lift. D. B. Hutton. No. 1,341,906; June 1; v. 275; p. 57.
Pumps, Mounting for oil-. F. Conrad. No. 1,344,756; June 29; v. 275; p. 863.
Punch and countersinking-machine, Combined. W. R. Ormes. No. 1,342,865; June 8; v. 275; p. 299.
Punch, Rail-bond. W. C. Brenner. No. 1,343,901; June 22; v. 275; p. 630.
Punching-machine. V. R. Rottone. No. 1,344,435; June 22; v. 275; p. 735.
Punching machinery. G. P. Thomas. No. 1,342,878; June 8; v. 275; p. 301.
Punching machinery. G. P. Thomas. No. 1,342,879; June 8; v. 275; p. 302.
Purifying materials, Manufacture of. C. Massatsch. No. 1,343,927; June 22; v. 275; p. 636.
Push-button nxture, Electric. O. A. Pedersen. No. 1,341,668; June 1; v. 275; p. 11.
Puzzle. E. L. Bowman. No. 1,342,706; June 8; v. 275; p. 266.
Pyroxylin and compositions containing same, Solvent for use with. E. M. Flaherty. No. 1,341,710; June 1; v. 275; p. 19.
Rack: *See*—
Clothes-rack. Wall-rack.
Sterilizer-rack.
Rack for supporting articles, Belt-. O. H. Frank. No. 1,342,626; June 8; v. 275; p. 250.
Rack or shelving. R. W. Jefferies. No. 1,341,852; June 1; v. 275; p. 47.
Radiator. C. E. Jeannotte. No. 1,342,680; June 8; v. 275; p. 261.
Radiator. H. D. Kellogg. No 1,341,649; June 1; v. 275; p. 7.
Radiator. C. C. Manker. No. 1,344,422; June 22; v. 275; p. 732.
Radiator. W. Reiferscheid. No. 1,344,772; June 29; v. 275; p. 867.
Radiator. F. L. Rice. No. 1,342,509; June 8; v. 275; p. 228.
Radiator, Automobile-. J. Clish. No. 1,341,784; June 1; v. 275; p. 34.
Radiator, Automobile-. C. Costello and S. G. Stoll. No. 1,343,352; June 15; v. 275; p. 457.
Radiator, Cooling-. E. F. Norelius and W. Turnbull. No. 1,344,351; June 22; v. 275; p. 718.
Radiator-cover. J. A. Brodin. No. 1,344,376; June 22; v. 275; p. 723.
Radiator, Gas-. C. C. Manker. No. 1,343,634; June 15; v. 275; p. 512.
Radiator-protector. G. N. Thomas. No. 1,345,283; June 29; v. 275; p. 964.
Radiators, Repairing. W. M. Wright, C. Teeples, and J. J. Lamb. No. 1,342,703; June 8; v. 275; p. 266.
Radiator-shield. C. W. G. Sodemann. No. 1,343,414; June 15; v. 275; p. 469.
Radiator-support. A. L. W. Ohmacht. No. 1,344,559; June 22; v. 275; p. 760.
Radiator ventilator and cap. W. H. Appleby. No. 1,344,609; June 29; v. 275; p. 835.
Radio system, Submarine. P. E. Stogoff. No. 1,343,165; June 8; v. 275; p. 358.
Radiosignaling apparatus. Wave-changer for. G. Hill, No. 1,345,007; June 29; v. 275; p. 910.
Radiotelegraphy. R. G. Marx and L. F. Fuller. No. 1,344,052; June 22; v. 275; p. 660.
Rail-anchor. B. Wolhaupter. No. 1,344,014; June 22; v. 275; p. 653.
Rail-anchor. B. Wolhaupter. No. 1,344,015; June 22; v. 275; p. 653.

Rail-anchor. B. Wolhaupter. No. 1,344,016; June 22; v. 275; p. 653.
Rail-bender. E. F. Goben. No. 1,342,263; June 1; v. 275; p. 128.
Rail-bracing-spike retainer. G. C. Wortman. No. 1,344,109; June 22; v. 275; p. 671.
Rail-chair. C. S. Clark. No. 1,342,251; June 1; v. 275; p. 126.
Rail-clamp. F. Wisniewski. No. 1,342,078; June 1; v. 275; p. 91.
Rail crossing, Automatic continuous-. H. W. Pattison. No. 1,344,957; June 29; v. 275; p. 901.
Rail-cutting device. F. C. Hasse. No. 1,342,502; June 8; v. 275; p. 226.
Rail diamond, Through-. H. A. Coulter. No. 1,344,866; June 29; v. 275; p. 884.
Rail-fastener. J. Wiecek. No. 1,342,196; June 1; v. 275; p. 115.
Rail-joint. L. Elbner. No 1,342,377; June 1; v. 275; p. 148.
Rail-joint. J. J. Powlick. No. 1,342,065; June 1; v. 275; p. 89.
Rail-joint. J. Rizzuto. No. 1,342,228; June 1; v. 275; p. 121.
Rail-joint. N. H. Roe. No. 1,341,931; June 1; v. 275; p. 63.
Rail-joint. J. Szarek. No. 1,342,006; June 1; v. 275; p. 77.
Rail-joint. A. L. Wartman. No. 1,344,604; June 22; v. 275; p. 769.
Rail-joint. M. J. Wightman. No. 1,343,070; June 8; v. 275; p. 339.
Rail-joint. C. J. Winslow. No. 1,343,605; June 15; v. 275; p. 507.
Rail joint and brace. L. A. Buck. No. 1,342,323; June 1; v. 275; p. 139.
Rail-joint box. W. C. Mason. No. 1,344,808; June 29; v. 275; p. 874.
Rail-section, Adjustable switch-point. P. Cameli. No. 1,344,259; June 22; v. 275; p. 700.
Rail-spike. J. H. Brumfield. No. 1,342,661; June 8; v. 275; p. 257.
Rail tie and fastening. I. N. Carey. No 1,345,126; June 29; v. 275; p. 933.
Rails, Device for bending metallic track-. W. Louden. No. 1,342,554; June 8; v. 275; p. 237.
Railway-crossings, Safety device for. C. A. Snyder. No. 1,342,002; June 1; v. 275; p. 76.
Railway-crossings, Safety device for cattle at. J. I. Dominguez. No. 1,345,145; June 29; v. 275; p. 937.
Railway-crossings, Signal and gate operating means for. J. Virag. No. 1,344,525; June 22; v. 275; p. 753.
Railway-gate. F. A. Strieter. No. 1,344,776; June 29; v. 275; p. 867.
Railway-gate, Automatic. P. Kilisztoff. No. 1,344,766; June 29; v. 275; p. 865.
Railway rail, Street-. J. W. McManama. No. 1,343,001; June 8; v. 275; p. 326.
Railway-rails, Connecting means for. J. C. David. No. 1,344,336; June 22; v. 275; p. 715.
Railway-signal. B. E. Andress. No. 1,341,772; June 1; v. 275; p. 32.
Railway signal apparatus, Foundation and housing for. J. S. Hobson. No. 1,342,962; June 8; v. 275; p. 317.
Railway signaling. R. A. McCann. No. 1,344,917; June 29; v. 275; p. 894.
Railway signaling system. J. B. Harlow. No. 1,345,176; June 29; v. 275; p. 943.
Railway signaling system. H. A. Wallace. No. 1,344,070; June 22; v. 275; p. 664.
Railway-switch. E. P. Scholes. No. 1,343,483; June 15; v. 275; p. 482.
Railway-tie. W. Burch. No. 1,344,676; June 29; v. 275; p. 848.
Railway-tie. C. and I. C. W. Buss. No. 1,342,420; June 8; v. 275; p. 211.
Railway-tie. J. R. Dooley. No. 1,343,813; June 15; v. 275; p. 549.
Railway-tie. G. F. A. Ochs. No. 1,344,926; June 29; v. 275; p. 896.
Railway-tie. W. Tomlinson. No. 1,345,287; June 29; v. 275; p. 965.
Railway-track appliance. A. A. Jardin. No. 1,344,134; June 22; v. 275; p. 676.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,341,753; June 1; v. 275; p. 28.
Railway-traffic-controlling apparatus. F. H. Nicholson. No. 1,342,644; June 8; v. 275; p. 253.
Railway-traffic-indicating apparatus. L. V. Lewis. No. 1,342,635; June 8; v. 275; p. 252.
Railway-vehicles, Suspension of liquid-containers on. K. von Kando. No. 1,343,241; June 15; v. 275; p. 436.
Railways, Electrical point-detector for. A. E. Hudd and G. H. Wion. No. 1,343,133; June 8; v. 275; p. 352.
Railways, Operating trains on multitrack city-. G. G. Erdos. No. 1,345,152; June 29; v. 275; p. 938.
Rake. A. Hinkle. No. 1,343,366; June 15; v. 275; p. 460.
Rakes, Automatic hay-ejector for sweep-. V. C. Palmer. No. 1,341,819; June 1; v. 275; p. 41.
Range. R. L. Poe. No. 1,344,061; June 22; v. 275; p. 662.
Range, Coal and gas. E. P. Cole. No. 1,344,755; June 29; v. 275; p. 863.
Range-finder, Long-base single-observer. A. Barr and W. Stroud. No. 1,343,025; June 8; v. 275; p. 330.
Rat-trap. B. Parker and W. F. Williams. No. 1,345,227; June 29; v. 271; p. 952.
Razor. W. H. Brasier. No. 1,343,900; June 22; v. 275; p. 630.
Razor, Electric safety-. H. Sengebusch. No. 1,343,012; June 8; v. 275; p. 328.
Razor, Safety-. A. H. Bryant. No. 1,342,370; June 1; v. 275; p. 147.
Razor, Safety-. C. F. Hammon. No. 1,344,447; June 22; v. 275; p. 738.
Razor, Safety-. L. S. Nordskog. No. 1,342,028; June 1; v. 275; p. 81.
Razor, Safety-. A. Valente and M. and S. Curzon. No. 1,345,039; June 29; v. 275; p. 916.
Razor-strop and cabinet, Endless. C. A. Shoup. No. 1,344,522; June 22; v. 275; p. 753.
Razor-strops, Composition for application to. W. G. Cooper. No. 1,344,865; June 29; v. 275; p. 884.
Reactance-coil. J. F. Peters. No. 1,344,713; June 29; v. 275; p. 855.
Reamer, Adjustable. E. E. Larson. No. 1,344,411; June 22; v. 275; p. 730.
Receptacle-closures, Cementitious material for. F. Roberts and J. M. Griffin. No. 1,343,282; June 15; v. 275; p. 444.
Receptacle-filling machine. D. A. Uric. No. 1,343,696; June 15; v. 275; p. 525.
Receptacle, Metallic. H. R. Gogay. No. 1,341,638; June 1; v. 275; p. 5.
Receptacles, Sanitary. H. E. Ames. No. 1,344,531; June 22; v. 275; p. 754.
Record-cleaner. C. C. Prinz. No. 1,343,156; June 8; v. 275; p. 356.
Recording and vending machine. J. E. Lederman. No. 1,344,909; June 29; v. 275; p. 893.
Recuperator. A. B. Chantraine. No. 1,341,970; June 1; v. 275; p. 70.
Recuperator. C. L. W. Trinks. No. 1,342,073; June 1; v. 275; p. 90.
Reducing-mill. E. B. Campbell. (Reissue.) No. 14,886; June 22; v. 275; p. 770.
Reel: *See*—
Film-reel. Fishing-reel.
Reel-frames, Machine for making. J. Yennett and E. T. Lonkert. No. 1,341,964; June 1; v. 275; p. 69.
Reel or beam. F. Mossberg. No. 1,341,815; June 1; v. 275; p. 40.
Reel or beam. F. Mossberg. No. 1,341,816; June 1; v. 275; p. 40.
Reel or beam. F. Mossberg. No. 1,341,817; June 1; v. 275; p. 40.
Refractory product and making same. C. W. Thomas. No. 1,344,461; June 22; v. 275; p. 741.
Refrigerating and heating system. W. M. Baxter. No. 1,342,403; June 1; v. 275; p. 154.
Refrigerating apparatus. H. B. Joy. No. 1,342,964; June 8; v. 275; p. 318.
Refrigerating-machine. A. L. Gibbs. No. 1,345,001; June 29; v. 275; p. 909.
Refrigerating machine. H. E. Willsie. (Reissue.) No. 14,884; June 15; v. 275; p. 565.
Refrigerator or like receptacle. D. E. Shongo. No. 1,343,688; June 15; v. 275; p. 523.
Refrigerator-vehicle. R. D. Hatch. No. 1,341,744; June 1; v. 275; p. 26.
Register: *See*—
Account-register. Coin-register.
Register-reset. C. Carson. No. 1,344,288; June 22; v. 275; p. 706.
Registers, Paying attachment for cash-. S. J. Bachardy and J. Kiss. No. 1,344,786; June 29; v. 275; p. 869.
Regulator: *See*—
Air-suction regulator. Fuel-regulator.
Draft-regulator. Heat-regulator.
Electric regulator. Pressure-regulator.
Relay. J. Erickson. No. 1,342,256; June 1; v. 275; p. 126.
Relay. C. O. Harrington. No. 1,343,719; June 15; v. 275; p. 530.
Relay. R. C. Leake. No. 1,344,699; June 29; v. 275; p. 852.
Relay. B. H. Smith. No. 1,344,730; June 29; v. 275; p. 858.
Relay, Electrical. H. W. Brown. No. 1,341,629; June 1; v. 275; p. 3.
Resawing-machine. C. B. Sprague. No. 1,344,096; June 22; v. 275; p. 668.
Resilient wheel. H. C. Anderson. No. 1,342,271; June 1; v. 275; p. 129.
Resilient wheel. D. S. Beach. No. 1,343,898; June 22; v. 275; p. 630.
Resilient wheel. W. A. Black. (Reissue.) No. 14,900; June 29; v. 275; p. 975.
Resilient wheel. A. H. Carlson. No. 1,344,986; June 29; v. 275; p. 906.
Resilient wheel. A. D'Errico. No. 1,341,842; June 1; v. 275; p. 45.
Resilient wheel. A. Jimenez. No. 1,342,289; June 1; v. 275; p. 132.
Resilient wheel. M. Jungling. No. 1,344,513; June 22; v. 275; p. 751.

Resilient wheel. H. R. Shafer. No. 1,343,986 June 22; v. 275; p. 647.
Resistance element. T. W. Case. No. 1,342,842; June 8; v. 275; p. 294.
Respiration, Producing artificial. G. P. E. Stolle. No. 1,343,846; June 15; v. 275; p. 483.
Retarded switch. H. W. Cheney. No. 1,344,199; June 22; v. 275; p. 688.
Retouching-screen. I. Boysen. No. 1,343,613; June 15; v. 275; p. 509.
Reversing mechanism. F. W. Wappat. No. 1,344,606; June 22; v. 275; p. 770.
Revolver and similar arms. C. P. Pinto. No. 1,342,923; June 8; v. 275; p. 310.
Revolver-stock. P. Donadio. No. 1,341,843; June 1; v. 275; p. 46.
Rheostat, Compression-. O. A. Knopp. No. 1,345,015; June 29; v. 275; p. 912.
Rheostat, Compressible. A Papini. No. 1,343,472; June 15; v. 275; p. 480.
Rifle. H. H. Jones. No. 1,343,456; June 15; v. 274; p. 477.
Rifle, Military. P. B. Cunningham. No. 1,344,991; June 29; v. 275; p. 907.
Rim-contractor. C. C. Heitmiller. No. 1,344,889; June 29; v. 275; p. 889.
Rim, Demountable. W. W. Bowman. No. 1,345,313; June 29; v. 275; p. 970.
Rim, Demountable. M. Hollister, Jr. No. 1,345,332; June 29; v. 275; p. 973.
Rim, Demountable. O. L. Ingram. No. 1,343,394; June 15; v. 275; p. 465.
Rim, Demountable. W. S. Krause. No. 1,342,118; June 1; v. 275; p. 99.
Rim, Demountable. B. Lamburello. No. 1,344,662; June 29; v. 275; p. 845.
Rim, Demountable. W. H. Rounds. No. 1,344,212; June 22; v. 275; p. 691.
Rim, Demountable. O. Smith. No. 1,345,269; June 29; v. 275; p. 961.
Rim, Split demountable. E. Oliver. No. 1,341,926; June 1; v. 275; p. 62.
Ring: *See*—
Key-ring. Piston packing-ring.
Piston-ring.
Rings, Brazing end. C. W. Starker. No. 1,341,682; June 1; v. 275; p. 14.
Rivet-caps, Machine for feeding circular. A. R. Havener. No. 1,342,331; June 1; v. 275; p. 140.
Road-guide. S. L. Gayle. No. 1,344,262; June 22; v. 275; p. 702.
Road-indicating log. W. H. Castner. No. 1,342,793; June 8; v. 275; p. 285.
Robe-holder. R. L. Clark. No. 1,342,274; June 1; v. 275; p. 130.
Robe-securing device. R. Reid. No. 1,343,847; June 15; v. 275; p. 555.
Rock-drill. W. A. Smith. No. 1,345,270; June 29; v. 275; p. 961.
Rod: *See*—
Automobile steering-rod.
Rod-support. L. V. Cram. No. 1,342,099; June 1; v. 275; p. 95.
Rods, Apparatus for measuring and sorting. W. Gillett. No. 1,344,941; June 29; v. 275; p. 898.
Roll-container. W. H. Hope. No. 1,342,909; June 8; v. 275; p. 308.
Roll-heating device. A. S. Rice. No. 1,343,849; June 15; v. 275; p. 556.
Roller: *See*—
Printing-press roller. Shade-roller.
Roller-table. H. A. Lewis and A. D. Wood. No. 1,342,220; June 1; v. 275; p. 120.
Rolling-mill. L. C. Steele. No. 1,342,608; June 8; v. 275; p. 247.
Rolling-mill repeater. A. J. Townsend. No. 1,343,652; June 15; v. 275; p. 516.
Rolling mills, Connection with plate and like. T. E. Holmes. No. 1,342,264; June 1; v. 275; p. 128.
Rolling mills, Friction drive for the top rolls of. J. E. Montgomery. No. 1,342,343; June 1; v. 275; p. 142.
Roof, Detachable. E. W. Test. No. 1,343,291; June 15; v. 275; p. 445.
Roof-framing tool, Combination. H. W. Scott. No. 1,342,232; June 1; v. 275; p. 122.
Roof-gutter or eaves-trough. C. G. Marberg. No. 1,343,461; June 15; v. 275; p. 478.
Roofing, Built-up. H. H. Robertson. No. 1,343,478; June 15; v. 275; p. 481.
Roofing-strips, Forming. F. C. Overbury. No. 1,345,099; June 29; v. 275; p. 928.
Rope-clamp. A. D. Lightner. No. 1,343,177; June 8; v. 275; p. 360.
Rope-making, Spreader for. W. H. Spencer. No. 1,343,854; June 15; v. 275; p. 557.
Rotary compression-machine. W. Majewski. No. 1,345,208; June 29; v. 275; p. 949.
Rotary drier. W. M. Schwartz. No. 1,345,260; June 29; v. 275; p. 959.
Rotary engine. J. D. Carroll. No. 1,342,496; June 8; v. 275; p. 225.
Rotary engine. G. E. Current. No. 1,343,115; June 8; v. 275; p. 348.
Rotary engine. S. E. Kochendarfer. No. 1,344,137; June 22; v. 275; p. 676.
Rotary engine. E. A. Miller. No. 1,343,331; June 15; v. 275; p. 453.
Rotary mechanism. A. E. Horman. No. 1,344,085; June 22; v. 275; p. 666.
Rotary power device. E. H. Gollings. No. 1,341,836; June 1; v. 275; p. 46.
Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,342,457; June 8; v. 275; p. 218.
Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,342,458; June 8; v. 275; p. 218.
Rubber articles and making same, Material for reinforcing. R. F. Kinsley. No. 1,343,368; June 15; v. 275; p. 461.
Rubber hose from sticking during manufacture, Preventing the inner walls of. F. C. Moore. No. 1,344,143; June 22; v. 275; p. 677.
Rubber mixing, grinding, sheeting, and similar mills. F. Iddon. No. 1,342,114; June 1; v. 275; p. 99.
Rubber vulcanization and the products thereof. S. B. Malony. No. 1,343,224; June 15; v. 275; p. 433.
Rudder-position indicator. C. Dovlken. No. 1,344,622; June 29; v. 275; p. 837.
Rug. M. Feldman. No. 1,342,259; June 1; v. 275; p. 127.
Rug-rolling machine. W. H. Lutz. No. 1,342,556; June 8; v. 275; p. 237.
Rule, Caliper-. H. J. Ostdiek. No. 1,343,227; June 15; v. 275; p. 434.
Rule, Calipering-. K. E. Solberg. No. 1,341,865; June 1; v. 275; p. 50.
Rule for cutting roof-rafters. W. A. Winn. No. 1,343,604; June 15; v. 275; p. 507.
Rule, Slide-. C. J. Davidson. No. 1,343,549; June 15; v. 275; p. 496.
Ruler. W. J. Hahn. No. 1,343,968; June 22; v. 275; p. 644.
Ruling apparatus. A. Broadmeyer. No. 1,344,166; June 22; v. 275; p. 682.
Runner. P. P. Altland. No. 1,345,307; June 29; v. 275; p. 969.
Running-board structure. F. F. Reisinger. No. 1,343,281; June 15; v. 275; p. 443.
Rust-preventing solution and preparing same. W. Eisenhauer. No. 1,344,338; June 22; v. 275; p. 716.
Saddle-spring support. T. J. Condon. No. 1,344,382; June 22; v. 275; p. 724.
Sadiron, Electric. J. P. Nikonow. No. 1,342,864; June 8; v. 275; p. 299.
Sadiron, Electric. F. Thornton, Jr. No. 1,344,741; June 29; v. 275; p. 860.
Safe. A. H. Gernsbacher. No. 1,341,899; June 1; v. 275; p. 56.
Safe, Drip-water. J. J. Hickey. No. 1,342,287; June 1; v. 275; p. 132.
Safety-brake. A. Dagosteno. No. 1,343,116; June 8; v. 275; p. 348.
Safety panel-box. H. F. Krantz. No. 1,342,545; June 8; v. 275; p. 235.
Safety-zone indicator. S. H. Shackelford. No. 1,343,524; June 15; v. 275; p. 491.
Sag-gate, Adjustable. J. R. Wright. No. 1,341,963; June 1; v. 275; p. 69.
Salt, Method of and apparatus for producing purified. F. G. Wheeler. No. 1,342,519; June 8; v. 275; p. 230.
Salts, Recovery or purification of potassium. W. Hirschkind. No. 1,343,508; June 15; v. 275; p. 487.
Sample-taking device. S. H. Huston. No. 1,342,814; June 8; v. 275; p. 289.
Sanding machines, Feed-regulator for road-. J. H. Bissell and C. G. Beauregard. No. 1,345,120; June 29; v. 275; p. 932.
Sanitary pad. M. V. Bauer. No. 1,341,875; June 1; v. 275; p. 51.
Sash fastener and burglar-alarm, Combined window-. E. M. Arndt. No. 1,345,309; June 29; v. 275; p. 969.
Sash-lock. C. Lombardo. No. 1,344,048; June 22; v. 275; p. 660.
Sash-locking device, Window-. C. M. Jacobs. No. 1,344,038; June 22; v. 275; p. 657.
Sash, Means for lifting, lowering, and securing a window. F. J. Johnson. No. 1,343,322; June 15; v. 275; p. 451.
Sash screen, Swinging. F. Reese. No. 1,343,933; June 22; v. 275; p. 637.
Saw-blades, Machine for forming. A. König. No. 1,341,806; June 1; v. 275; p. 38.
Saw-cylinder. R. W. McLean. No. 1,345,207; June 29; v. 275; p. 949.
Saw-filing clamp. J. Szako. No. 1,342,236; June 1; v. 275; p. 123.
Saw-filing device. J. L. Purdy. No. 1,342,462; June 8; v. 275; p. 219.
Saw-handle. H. Topping. No. 1,344,103; June 22; v. 275; p. 670.
Saw, Pipe and tube. I. W. Nonneman. No. 1,344,428; June 22; v. 275; p. 734.
Saw-set. C. P. Ellis. No. 1,342,327; June 1; v. 275; p. 139.
Saw-shifter. W. G. Hagmaier. No. 1,344,203; June 22; v. 275; p. 689.
Scale, Automatic. G. A. Evans and J. E. Ellison. No. 1,342,670; June 8; v. 275; p. 259.
Scale or rule for centering typewritten or other work, Centering. R. B. Funk. No. 1,343,912; June 22; v. 275; p. 633.

Scenic effects, Combining reflected and transmitted light-waves of varying lengths to produce subjective changes in. C. Bittinger. No. 1,342,247; June 1; v. 275; p. 125.
Scraper, Fork-. J. H. Johnson. No. 1,341,750; June 1; v. 275; p. 27.
Scraper or leveling machine, Land. B. Sandstrom. No. 1,343,159; June 8; v. 275; p. 357.
Scraper, Tail-board. G. S. Spreyer. No. 1,343,097; June 8; v. 275; p. 344.
Screen: *See*—
Metal-frame screen. Shaking-screen.
Retouching-screen. Well-screen.
Sash-screen. Window-screen.
Screen-marker. J. C. Milnes. No. 1,345,211; June 29; v. 275; p. 950.
Screen, Non-cloggable self-cleaning. A. G. Turner. No. 1,343,292; June 15; v. 275; p. 445.
Screen or shield, Protecting. J. Kozik. No. 1,344,558; June 22; v. 275; p. 766.
Screened chair, Foldable. S. Stransky. No. 1,344,097; June 22; v. 275; p. 669.
Screw-anchor, Expanding. J. Blackburn. No. 1,343,384; June 15; v. 275; p. 464.
Screw-wrench, Quick-adjustable. J. M. Grenzfelder. No. 1,343,448; June 15; v. 275; p. 475.
Sealing composition, Gasket-. J. F. Vervoort. No. 1,341,952; June 1; v. 275; p. 67.
Sealing containers, Means for hermetically. H. A. Baker. No. 1,343,955; June 22; v. 275; p. 641.
Seam. R. R. Hughes, Jr. No. 1,344,000; June 22; v. 275; p. 650.
Seams, Making triple. A. H. Weis. No. 1,341,769; June 1; v. 275; p. 31.
Seaming machine, Double-. A. W. Wheeler. No. 1,343,538; June 15; v. 275; p. 494.
Seat: *See*—
Car-seat. Chair-seat.
Seat structure. C. A. Hoehn. No. 1,343,916; June 22; v. 275; p. 634.
Sectional spring. S. Gainer. No. 1,343,620; June 15; v. 275; p. 510.
Seed-dropping mechanism. T. J. Ellison. No. 1,342,948; June 8; v. 275; p. 315.
Seed-selecting mechanism. R. A. Vest. No. 1,343,802; June 15; v. 275; p. 546.
Seesaw, Whirling. J. E. Smith. No. 1,344,965; June 29; v. 275; p. 902.
Self-instruction, System and educational appliance for military. C. W. Wright. No. 1,342,520; June 8; v. 275; p. 230.
Self-serving table. G. Juresisin. No. 1,344,900; June 29; v. 275; p. 891.
Selvage-forming device. H. Le Doux. No. 1,344,413; June 22; v. 275; p. 730.
Separator: *See*—
Dust-separator. Ore-separator.
Grain-separator.
Settling-tank. S. F. Keller. No. 1,345,090; June 29; v. 275; p. 926.
Sewage and other liquids, Separation and settlement of solids and matters from. W. Clifford. No. 1,343,764; June 15; v. 275; p 539
Sewer-basins, Traveling apparatus for cleaning. G. W. Otterson; No. 1,343,471; June 15; v. 275; p. 480.
Sewer-cleaning apparatus. W. H. Stewart. No. 1,344,249; June 22; v. 275; p. 698.
Sewing-machine. W. C. Free. No. 1,342,435; June 8; v. 275; p. 214.
Sewing-machine. W. J. Glidden. No. 1,342,165; June 1; v. 275; p. 109.
Sewing-machine. R. K. Hohmann. No. 1,343,823; June 15; v. 275; p. 550.
Sewing-machine, Automatic. E. E. Winkley. No. 1,342,367; June 1; v. 275; p. 147.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,344,748; June 29; v. 275; p. 862.
Sewing machine, Buttonhole-. F. A. Read. No. 1,345,025; June 29; v. 275; p. 914.
Sewing machine, Buttonhole-. F. A. Reece. No. 1,343,278; June 15; v. 275; p. 443.
Sewing machine, Buttonhole-. F. A. Reece. No. 1,343,337; June 15; v. 275; p. 454.
Sewing-machine gage. S. Morgen. No. 1,343,149; June 8; v. 275; p. 355.
Sewing-machine head, Portable. G. H. Riddell. No. 1,344,718; June 29; v. 275; p. 856.
Sewing machine, Mantle-. H. Embree. No. 1,342,669; June 8; v. 275; p. 258.
Sewing machine, Shoe-. J. M. Levangie. No. 1,342,685; June 8; v. 275; p. 262.
Sewing-machine support. J. A. McCracken. No. 1,342,686; June 8; v. 275; p. 262.
Sewing-machines, Oil-guard for. W. J. Beattie. No. 1,344,787; June 29; v. 275; p. 870.
Sewing-machines, Thread-controlling device for. F. W. Merrick. No. 1,344,424; June 22; v. 275; p. 733.
Sewing-machines, Thread-controlling mechanism for. G. S. Gatchell. No. 1,342,800; June 8; v. 275; p. 286.
Sewing machines, Thread-cutter for bag-. J. O. Bakke. No. 1,342,150; June 1; v. 275; p. 105.
Sewing-machines, Work-guide for. F. T. Ströbeck. No. 1,342,775; June 8; v. 275; p. 281.
Sewing mechanism. A. H. Weis. No. 1,344,284; June 22; v. 275; p. 705.
Shade and curtain bracket. F. J. Grote. No. 1,343,126; June 8; v. 275; p. 350.
Shade and curtain-pole bracket. F. Ruzicka. No. 1,342,230; June 1; v. 275; p. 122.
Shade attachment, Window-. M. Warner and C. Whetstone. No. 1,343,859; June 15; v. 275; p. 558.
Shade carrier, Window-. A. C. Vanerka. No. 1,345,293; June 29; v. 275; p. 966.
Shade fixture, Window-. H. E. Manning. No. 1,344,703; June 29; v. 275; p. 853.
Shade hanger, Window-. W. H. Forse, Jr. No. 1,343,771; June 15; v. 275; p. 540.
Shade-holder. B. Selwacki. No. 1,342,070; June 1; v. 275; p. 90.
Shade-holder support. T. Glanding. No. 1,341,845; June 1; v. 275; p. 46.
Shade material, Making painted. J. P. Whitmore. No. 1,341,956; June 1; v. 275; p. 67.
Shade, Roller-. J. Johnstone. No. 1,344,448; June 22; v. 275; p. 738.
Shade-roller, Adjustable. A. A. Mousette. No. 1,345,097; June 29; v. 275; p. 927.
Shade, Windshield-. A. L. Nash. No. 1,342,347; June 1; v. 275; p. 143.
Shaft-coupling. C. W. McCormick. No. 1,343,272; June 15; v. 275; p. 442.
Shaft-hanger or plumber-block. J. D. Waern. No. 1,344,527; June 22; v. 275; p. 754.
Shafts, Gate-operating device for. R. H. Stevens. No. 1,342,832; June 8; v. 275; p. 292.
Shaker-screen. E. E. Berry. No. 1,344,751; June 29; v. 275; p. 862.
Shaking-screen. C. V. Wright. No. 1,344,747; June 29; v. 275; p. 862.
Shank-piece-laying machine. E. E. Winkley. No. 1,344,781; June 29; v. 275; p. 868.
Sharpener, Disk-. C. E. Bray. No. 1,343,342; June 15; v. 275; p. 455.
Sharpener, Disk-. W. R. Heggs. No. 1,344,888; June 29; v. 275; p. 888.
Sharpener, Pencil-. J. Sontheimer. No. 1,343,796; June 15; v. 275; p. 545.
Sharpener, Pencil-. C. E. Stone. No. 1,341,943; June 1; v. 275; p. 65.
Sharpening domestic and other knives, Device for use in. A. Cornell. No. 1,342,275; June 1; v. 275; p. 130.
Shaving kit. J. Barrett. No. 1,343,703; June 15; v. 275; p. 527.
Shears. T. J. Fegley and G. O. Leopold. No. 1,343,174; June 8; v. 275; p. 341.
Shears, Clipper-. G. A. La Foutaine. No. 1,343,174; June 8; v. 275; p. 359.
Shears, Portable. N. P. Tangwall. No. 1,342,473; June 8; v. 275; p. 221.
Shears, Punching-. E. E. Cornell. No. 1,344,488. June 22; v. 275; p. 746.
Sheet-feeding mechanism. E. P. Jennings, Jr. No. 1,342,629; June 8; v. 275; p. 250.
Sheet-form material, Machine for cutting. W. F. Simpson. No. 1,344,155; June 22; v. 275; p. 680.
Sheet-gage. J. White and W. Eckhard. No. 1,341,694; June 1; v. 275; p. 16.
Sheet-gripper. W. E. Wegener. No. 1,343,537; June 15; v. 275; p. 493.
Sheet-Handling machine. H. M. Barber. No. 1,343,608; June 15; v. 275; p. 507.
Sheet-metal articles, Making edge-corrugated. A. S. Barrows. No. 1,341,967; June 1; v. 275; p. 70.
Sheet-metal-working presses, Feeding and delivering mechanism for. H. Miller. No. 1,344,810; June 29; v. 275; p. 874.
Sheet-separating device. E. P. Jennings, Jr. No. 1,342,630; June 8; v. 275; p. 251.
Sheets, Antismutting device for traveling. B. D. Knowles. No. 1,342,117; June 1; v. 275; p. 99.
Shelf. F. Grammich. No. 1,343,818; June 15; v. 275; p. 549.
Shelf-facing. G. H. E. Davis. No. 1,344,223; June 22; v. 275; p. 693.
Shells, Producing covered box-. W. A. Weightman and C. H. Nitsch. No. 1,341,954; June 1; v. 275; p. 67.
Shelving. H. A. Wieman. No. 1,344,106; June 22; v. 275; p. 670.
Shingle. F. Schmitte. No. 1,343,792; June 15; v. 275; p. 544.
Shingle machine, Composite-tapered-. R. A. Plumb. No. 1,343,581; June 15; v. 275; p. 502.
Shipping-box. E. C. Potter. No. 1,344,147; June 22; v. 275; p. 678.
Shipping box or crate, Collapsible. H. K. Shirley. No. 1,345,264; June 29; v. 275; p. 960.
Ship. J. Arbuthnot. No. 1,343,491; June 15; v. 275; p. 484.
Ship construction. R. F. Hartung. No. 1,343,392; June 15; v. 275; p. 465.
Ship mold, Reinforced-concrete-. G. E. Kastengren. No. 1,345,013; June 29; v. 275; p. 912.
Ship-protector. P. Sangoff. No. 1,344,151; June 22; v. 275; p. 679.
Ships, Apparatus for raising. W. F. Grumme. No. 1,344,505; June 22; v. 275; p. 749.
Ships, Boat supporting and launching apparatus for. R. G. Clark. No. 1,344,754; June 29; v. 275; p. 863.

Ships, Construction of. G. V. Montaruli. No. 1,345,213; June 29; v. 275; p. 950.
Ships' gyroscopes, Controlling mechanism for. E. A. Sperry. No. 1,342,397; June 1; v. 275; p. 152.
Ships, Propulsion and steering of. E. S. G. Rees. No. 1,344,518; June 22; v. 275; p. 752.
Shirt. H. H. Herst. No. 1,342,906; June 8; v. 275; p. 307.
Shirts, Simultaneously cutting and sewing. J. P. Weis. No. 1,342,009; June 1; v. 275; p. 77.
Shock-absorber. N. F. Beck. No. 1,343,027; June 8; v. 275; p. 331.
Shock-absorber. E. V. Hartford. No. 1,343,970; June 22; v. 275; p. 644.
Shock-absorber. M. H. Naber. No. 1,344,593; June 22; v. 275; p. 767.
Shock-absorber, Railway-crossing. R. R. Hargrave. No. 1,343,869; June 15; v. 275; p. 560.
Shock-absorbing wheel. E. J. Gould. No. 1,343,774; June 15; v. 275; p. 541.
Shock-absorbing wheel and tire, Flexible. R. R. & Court Beadon. No. 1,344,990; June 29; v. 275; p. 907.
Shock-holder. D. A. Haas. No. 1,343,624; June 15; v. 275; p. 510.
Shock-loader. W. C. Hill. No. 1,342,959; June 8; v. 275; p. 317.
Shocker. C. H. Groves. No. 1,343,775; June 15; v. 275; p. 541.
Shoe-heeling method. A. Perri. No. 1,345,023; June 29; v. 275; p. 913.
Shoe-lace-tie retainer. B. E. Fay. No. 1,344,998; June 29; v. 275; p. 908.
Shoe-lace tip. M. B. Sickles. No. 1,341,940; June 1; v. 275; p. 64.
Shoe, Muck-. W. J. Curry. No. 1,343,436; June 15; v. 275; p. 473.
Shoe-polish box. H. E. Everett. No. 1,342,537; June 8; v. 275; p. 233.
Shoe-polisher. J. Mork. No. 1,343,466; June 15; v. 275; p. 479.
Shoe-securing device. E. F. Elliot. No. 1,344,996; June 29; v. 275; p. 908.
Shoe-shining machine. C. Caldes. No. 1,343,032; June 8; v. 275; p. 332.
Shoe-sole-cutting machine. T. H. Graydon. (Reissue.) No. 14,876; June 8; v. 275; p. 362.
Shoe-sole protector. D. Marinsky. No. 1,343,329; June 15; v. 275; p. 452.
Shoe-taps, Reinforcement for the shank edges of. H. Bruck. No. 1,341,880; June 1; v. 275; p. 52.
Shoe-tree. A. R. Anderson. No. 1,343,891; June 22; v. 275; p. 629.
Shoes, Heel attachment for. H. A. Williams. No. 1,343,602; June 15; v. 275; p. 506.
Shoes, Making. J. J. Heys. No. 1,341,746; June 1; v. 275; p. 27.
Shoes, Making. G. Pollock. (Reissue.) No. 14,882; June 15; v. 275; p. 564.
Shoes, Making. W. C. Stewart. No. 1,342,469; June 8; v. 275; p. 220.
Shoes, Manufacturing felt. L. A. Wolff. No. 1,344,930; June 29; v. 275; p. 896.
Shoes, Pull-strap for laced. W. H. Avis. No. 1,342,149; June 1; v. 275; p. 105.
Shoes, Snap-fasteners for. S. Tadakuma. No. 1,343,942; June 22; v. 275; p. 639.
Shovel: *See*—
Sifting-shovel.
Shower and cleaning device. G. E. Treese. No. 1,343,008; June 22; v. 275; p. 652.
Shutter-actuating apparatus. H. B. Emmrick. No. 1,344,997; June 29; v. 275; p. 908.
Shutter, Photographic. W. A. Riddell and F. A. G. Pirwitz. No. 1,341,823; June 1; v. 275; p. 42.
Shuttle. T. Matloob. No. 1,344,553; June 22; v. 275; p. 759.
Shuttle. I. Snow. No. 1,344,734; June 29; v. 275; p. 859.
Shuttle-check, Cushion-spring. D. E. Skedgell. No. 1,341,941; June 1; v. 275; p. 64.
Shuttle, Tatting-. L. Wolle. No. 1,345,303; June 29; v. 275; p. 968.
Sickle. R. R. Zahnter. No. 1,342,369; June 1; v. 275; p. 147.
Side-frame arrangement. H. E. Doerr. No. 1,343,618; June 15; v. 275; p. 509.
Sleve-cleaning device. N. G. Ek. No. 1,341,793; June 1; v. 275; p. 36.
Sifter, Household. E. M. Beckman. No. 1,345,058; June 29; v. 275; p. 920.
Sifting device, Ash-. A. Elkins. No. 1,344,493; June 22; v. 275; p. 747.
Sifting-shovel. J. C. Bandini. No. 1,341,874; June 1; v. 275; p. 51.
Sign, Electric. P. J. Kenegy. No. 1,343,141; June 8; v. 275; p. 353.
Sign, Interchangeable road-. A. W. Buss. No. 1,343,247; June 15; v. 275; p. 437.
Signboard. F. W. Gibson. No. 1,342,538; June 8; v. 275; p. 234.
Signal: *See*—
Auto block-signal. Railway-signal.
Automobile-signal. Warning-signal.
Direction-signal.
Signal-carrying case. J. P. Rodenbur. No. 1,344,564; June 22; v. 275; p. 761.
Signal device, Portable. J. E. Genn. No. 1,344,082; June 22; v. 275; p. 666.
Signaling apparatus, Wireless. R. A. Weagant. No. 1,342,399; June 1; v. 275; p. 153.
Signaling device, Sounding. J. P. Nikonow. No. 1,342,863; June 8; v. 275; p. 298.
Signaling or indicating apparatus especially applicable for signaling orders and numerical data, Electrical. E. A. Graham. No. 1,343,362; June 15; v. 275; p. 459.
Signaling system. R. D. Conway. No. 1,343,196; June 15; v. 275; p. 428.
Signaling system, Electrical. H. D. Murphy. No. 1,343,467; June 15; v. 275; p. 479.
Signals, Sound-regulator for audible-. W. Kline. No. 1,342,543; June 8; v. 275; p. 235.
Silo. J. H. Comer. No. 1,343,809; June 15; v. 275; p. 548.
Skate. Z. Slawinski. No. 1,342,773; June 8; v. 275; p. 281.
Skate-protector. A. Johnson. No. 1,341,853; June 1; v. 275; p. 47.
Skate, Roller-. J. D. Uppling. No. 1,345,038; June 29; v. 275; p. 916.
Skate, Water-. G. Halbow. No. 1,344,225; June 22; v. 275; p. 693.
Skid, Loading-. B. J. Hubbard. No. 1,341,904; June 1; v. 275; p. 57.
Skirt evener, tucker, hemmer, and marker. C. M. Drake. No. 1,344,871; June 29; v. 275; p. 885.
Skiving-machine. N. V. Dyer. No. 1,342,430; June 8; v. 275; p. 213.
Skiving-machine. A. Latham. No. 1,342,120; June 1; v. 275; p. 100.
Slats to belts, Means for holding. C. G. Cowan. No. 1,345,136; June 29; v. 275; p. 935.
Sled, Automobile. J. Wachniak. No. 1,342,410; June 1; v. 275; p. 155.
Sled-pad. J. Dickie. No. 1,341,708; June 1; v. 275; p. 18.
Sleeve-protector. D. V. D. Whitaker. No. 1,344,011; June 22; v. 275; p. 652.
Sleigh, Self-propelled. J. Bereznay. No. 1,345,062; June 29; v. 275; p. 921.
Slicer, Rotary vegetable-. O. A. Freeman. No. 1,341,894; June 1; v. 275; p. 55.
Slicing-knives, Adjustable and releasing guard for. C. H. Krapf. No. 1,342,292; June 1; v. 275; p. 133.
Slicing-machine. C. A. Dies. No. 1,344,118; June 22; v. 275; p. 673.
Slide. J. Unsworth. No. 1,343,598; June 15; v. 275; p. 505.
Slub-catcher. F. Weber. No. 1,343,102; June 8; v. 275; p. 346.
Smelting-furnace. J. Gaunt and D. Brookfield. No. 1,344,878; June 29; v. 275; p. 886.
Smoke-reducer. L. Paul. No. 1,342,867; June 8; v. 275; p. 299.
Snap-fastener device. H. B. Smith. No. 1,345,267; June 29; v. 275; p. 961.
Snowplow. E. J. Dyson. No. 1,344,794; June 29; v. 275; p. 871.
Soap-dispensing device. C. E. Ewing. No. 1,343,815; June 15; v. 275; p. 549.
Soap-hanger. W. G. Davis. No. 1,342,844; June 8; v. 275; p. 294.
Soaps in cake or powder form, Manufacturing solid toilet and household. O. Volz. No. 1,342,783; June 8; v. 275; p. 282.
Socket, Spring swivel-jar. P. Arbon. No. 1,343,542; June 15; v. 275; p. 494.
Socket-switch, Heat-dissipating. R. D. Smith. No. 1,343,690; June 15; v. 275; p. 524.
Socket switch, Lamp-dimming-. R. D. Smith. No. 1,343,689; June 15; v. 275; p. 524.
Socket, Swivel-jar. P. Arbon. No. 1,343,541; June 15; v. 275; p. 494.
Socket-wrench. A. Stern. No. 1,343,692; June 15; v. 275; p. 525.
Sod-disintegrator and quack-grass eradicator. A. Newdall, N. P. Nelson, and M. Newdall. No. 1,341,861; June 1; v. 275; p. 49.
Soldering sheet-metal vessels, Apparatus for. G. H. Bennett. No. 1,343,493; June 15; v. 275; p. 484.
Soles, Machine for operating on. A. E. Johnson. No. 1,344,041; June 22; v. 275; p. 658.
Soles, Machine for operating on. T. H. Seely. No. 1,344,063; June 22; v. 275; p. 663.
Solidifying or concentrating materials, Apparatus for. J. W. Leitch. No. 1,343,833; June 15; v. 275; p. 553.
Solution, Obtaining a concentrated SO_2. N. C. Christensen. No. 1,341,734; June 1; v. 275; p. 24.
Solutions, Making and transporting. F. W. Thorold. No. 1,344,102; June 22; v. 275; p. 670.
Solvents, Apparatus for reclaiming. P. Gerli and O. A. Ross. No. 1,345,083; June 29; v. 275; p. 925.
Sound-amplifier. J. Mersman. No. 1,344,307; June 22; v. 275; p. 710.
Sound-modifying means. E. Cassea. No. 1,342,662; June 8; v. 275; p. 257.
Sound-record tablet and producing same. V. H. Emerson. No. 1,341,740; June 1; v. 275; p. 25.
Sound-records and making same, Composition of matter for. T. A. Edison. No. 1,342,326; June 1; v. 275; p. 139.

Sound-records, Device for forming grooves in. H. K. Sandell. No. 342,872; June 8; v. 275; p. 300.
Sound-records, Matrix for producing. J. W. Aylsworth and E. L. Aiken. No. 1,345,115; June 29; v. 275; p. 931.
Sound-reproducing machines, Automatic stop for. O. O. Storle. No. 1,341,767; June 1; v. 275; p. 31.
Sound-reproducing machines, Repeating device for. E. Peremi. No. 1,343,087; June 8; v. 275; p. 342.
Sounds, Apparatus for muffling. J. O. Fisher. No. 1,341,976; June 1; v. 275; p. 71.
Spacer-block for refractory arches. A. H. Willett. No. 1,343,243; June 15; v. 275; p. 437.
Spacing-machine. G. P. Thomas. No. 1,342,880; June 8; v. 275; p. 302.
Spanner. J. J. Woodward. No. 1,343,882; June 15; v. 275; p. 563.
Spanners, wrenches, vises, clamps, pipe-cutters, pipe-grips, and like tools, Construction of adjustable. F. Humphris. No. 1,343,826; June 15; v. 275; p. 551.
Spark-gap. O. W. Kinley. No. 1,342,816; June 8; v. 275; p. 289.
Spark-gap indicator. T. F. Johnson, Jr. No. 1,344,042; June 22; v. 275; p. 658.
Spark-plug. L. Cammen and A. W. Ofeldt. No. 1,344,172; June 22; v. 275; p. 683.
Spark-plug. G. T. Dochtermann. No. 1,342,205; June 1; v. 275; p. 117.
Spark-plug. M. Hoffmann. No. 1,344,892; June 29; v. 275; p. 889.
Spark-plug. C. F. Meyer. No. 1,344,954; June 29; v. 275; p. 900.
Spark-plug. A. R. Mosler. No. 1,344,956; June 29; v. 275; p. 901.
Spark-plug. A. Samson. No. 1,344,721; June 29; v. 275; 856.
Spark-plug. W. H. Zeigler. No. 1,344,530; June 22; v. 275; p. 754.
Sparking plug, Air-cooled. J. Chapman. No. 1,342,421; June 8; v. 275; p. 211.
Spark-plug changer. A. Camporini and J. Rena. No. 1,343,348; June 15; v. 275; p. 456.
Spark-plug insulator. J. Ingels. No. 1,341,747; June 1; v. 275; p. 27.
Spark-plug insulators, Making. J. Scharl. No. 1,343,686. June 15; v. 275; p. 523.
Spark-plug, Telltale. I. Harris. No. 1,343,626; June 15; v. 275; p. 511.
Spark-plug, Triple-gap. J. D. Earney. No. 1,342,431; June 8; v. 275; p. 213.
Spark-plugs, Attachment for. W. J. O'Gorman. No. 1,343,372; June 15; v. 275; p. 461.
Spark-plugs, Automatic cleaning device for. W. C. Oursler. No. 1,343,743; June 15; v. 275; p. 535.
Spark-timer and oil-pump, Combined. J. McClelland. No. 1,344,953; June 29; v. 275; p. 900.
Spark-wheel-toothing machine. A. L. Hansen. No. 1,344,299; June 22; v. 275; p. 708.
Sparking plug for ignition purposes. A. E. Heath. No. 1,343,052; June 8; v. 275; p. 336.
Speed appliance, Mechanism change-. L. M. Shaw. No. 1,344,727; June 29; v. 275; p. 857.
Speed-changing device. E. C. Head. No. 1,343,131; June 8; v. 275; p. 351.
Speed-changing-gear system. J. Tomoda. No. 1,343,944; June 22; v. 275; p. 639.
Speed-controlling mechanism. L. M. Shaw. No. 1,344,726; June 29; v. 275; p. 857.
Speed transmission, Gearless variable-. W. Dunn. No. 1,343,254; June 15; v. 275; p. 438.
Speedometer, Electric. S. C. Winger and A. Rickenbacher. No. 1,341,958; June 1; v. 275; p. 68.
Spike-machine. L. J. Berkeley. No. 1,345,064; June 29; v. 275; p. 921.
Spike-puller. F. Fortin. No. 1,344,628; June 29; v. 275; p. 838.
Spindle-holder. H. Thomas. No. 1,345,284; June 29; v. 275; p. 964.
Spinning-machine. G. L. Rice. No. 1,343,230; June 15; v. 275; p. 434.
Spinning-machines, Yarn-catcher for. G. Bell. No. 1,343,704; June 15; v. 275; p. 527.
Spoke, Resilient. I. Ilieff. No. 1,341,907; June 1; v. 275; p. 58.
Spool. M. R. Hutchison. No. 1,345,190; June 29; v. 275; p. 946.
Spot-lights, Universal joint for. E. H. Howard. No. 1,344,344; June 22; v. 275; p. 717.
Spray, Bath-. P. J. Fitzgerald. No. 1,342,994; June 8; v. 275; p. 324.
Sprayer, Automatic poultry-. O. E. Sundre. No. 1,342,776; June 8; v. 275; p. 281.
Spring: *See*—
Air-spring. Sectional spring.
Bed-spring. Vehicle-spring.
Door-spring.
Spring applier and remover. G. J. Charland. No. 1,342,529; June 8; v. 275; p. 232.
Spring-coiling machine. E. C. Danner. No. 1,344,116; June 22; v. 275; p. 672.
Spring construction, Back-. L. A. Young. No. 1,342,522; June 8; v. 275; p. 230.
Spring-cushion. L. A. Young. No. 1,343,167; June 8; v. 275; p. 358.
Spring-lubricator. M. Jarmie. No. 1,342,172; June 1; v. 275; p. 110.
Spring-motor. J. B. Browning. No. 1,345,122; June 29; v. 275; p. 933.
Spring-motor mechanism. F. Magidson. No. 1,342,857; June 8; v. 275; p. 297.
Spring structure. O. R. Hunt. No. 1,343,565; June 15; v. 275; p. 499.
Spring-wheel. W. A. Burger and W. Gross. No. 1,344,483; June 22; v. 275; p. 745.
Spring-wheel. G. Cartasso. No. 1,344,579; June 22; v. 275; p. 764.
Spring-wheel. T. Rozaukovich. No. 1,345,250; June 29; v. 275; p. 957.
Spring-wheel. H. Wileman. No. 1,344,012; June 22; v. 275; p. 653.
Sprinkler. R. W. Newton. No. 1,345,217; June 29; v. 275; p. 951.
Sprinkler systems, Dry-pipe valve for. E. G. Harris. No. 1,343,776; June 15; v. 275; p. 541.
Sputum-box. H. H. Colestock. No. 1,344,442; June 22; v. 275; p. 737.
Square, Adjustable set-. J. Westwood. No. 1,342,730; June 8; v. 275; p. 271.
Stacking mechanism. F. V. Hart. No. 1,344,034; June 22; v. 275; p. 657.
Stacking-pin. E. W. Collins. No. 1,343,351; June 15; v. 275; p. 457.
Staffs, spindles, and the like, Device for inserting and adjusting bearings for. J. L. Axen. No. 1,342,840; June 8; v. 275; p. 294.
Stair structure. J. T. Nesdall. No. 1,343,739; June 15; v. 275; p. 534.
Stairs, Protective pad for. N. C. Parker. No. 1,344,310; June 22; v. 275; p. 711.
Stairway, Disappearing. T. N. Badger and W. G. Smith. No. 1,344,371; June 22; v. 275; p. 723.
Stake-holder. C. O. Torgerson. No. 1,342,654; June 8; v. 275; p. 255.
Stake, Pocket-. J. Hayes. No. 1,344,393; June 22; v. 275; p. 727.
Stalk-raiser. H. J. Hahn. No. 1,344,761; June 29; v. 275; p. 865.
Stamp attachment, Rubber-. F. E. Frost. No. 1,344,079; June 22; v. 275; p. 665.
Stamp-moistener. C. M. Pratt. No. 1,342,824; June 8; v. 275; p. 291.
Stamps, labels, or sealing-strips to containers, Machine for applying. G. W. Gwinn. No. 1,343,264; June 15; v. 275; p. 440.
Stanchion-alinement device. R. F. Rasmussen. No. 1,344,651; June 29; v. 275; p. 843.
Stanchion-support. J. M. B. Lewis. No. 1,341,989; June 1; v. 275; p. 74.
Stand: *See*—
Bicycle-stand.
Stand. E. F. Philbrook, Jr. No. 1,343,229; June 15; v. 275; p. 434.
Standpipe. H. E. Thompson and P. L. Bunn. No. 1,342,516; June 8; v. 275; p. 229.
Staple-setter. F. C. Suchy. No. 1,343,289; June 15; v. 275; p. 445.
Stapling-machines, Cutting-blade for. H. B. Walter. No. 1,342,240; June 1; v. 275; p. 124.
Starter. T. E. Collins. No. 1,344,291; June 22; v. 275; p. 707.
Starting and generating system. W. A. Turbayne. No. 1,342,409; June 1; v. 275; p. 155.
Station-indicator. J. L. Gore. No. 1,342,283; June 1; v. 275; p. 131.
Staybolt. J. R. Flannery and E. I. Dodds. No. 1,342,162; June 1; v. 275; p. 108.
Staybolt-machine. J. A. Eden, Jr. No. 1,342,534; June 8; v. 275; p. 233.
Staybolts, Machine for making. J. A. Eden, Jr. No. 1,342,536; June 8; v. 275; p. 233.
Steam-boiler. J. Pierce, Jr. No. 1,345,231; June 29; v. 275; p. 953.
Steam-boiler. F. O. Stanley. No. 1,342,606; June 8; v. 275; p. 247.
Steam-engine. D. C. Conkling. No. 1,345,319; June 29; v. 275; p. 971.
Steam-expansion engine. V. B. Harley-Mason. No. 1,343,449; June 15; v. 275; p. 476.
Steamer. F. R. Colquit. No. 1,341,972; June 1; v. 275; p. 71.
Steel and forming and forging same, High-speed. J. P. Waters. No. 1,345,045; June 29; v. 275; p. 918.
Steel, Carbonizing. T. R. Ferguson and E. L. Larson. No. 1,343,359; June 15; v. 275; p. 458.
Steel concrete girders, Support-strap for reinforcement in. J. E. Orvin. No. 1,342,349; June 1; v. 275; p. 144.
Steel, iron, and similar articles, Treatment of. H. C. Baines. No. 1,344,372; June 22; v. 275; p. 723.
Steel, Manufacturing. R. H. Irons. No. 1,345,182; June 29; v. 275; p. 946.
Steel, Producing. A. Vögler. No. 1,342,701; June 8; v. 275; p. 265.
Steel sheets, Manufacture of manganese-. R. A. Hadfield. No. 1,344,392; June 22; v. 275; p. 726.
Steering apparatus. E. A. Parmele and T. McLean. No. 1,344,352; June 22; v. 275; p. 719.
Steering device. J. M. H. Jacobs. No. 1,342,385; June 1; v. 275; p. 150.

Steering device. H. A. Roan. No. 1,343,062; June 8; v. 275; p. 337.
Steering-gear. F. H. Ragan. No. 1,344,005; June 22; v. 275; p. 651.
Steering transmission, Positive-reduction. E. E. Wickersham. No. 1,344,368; June 22; v. 275; p. 722.
Steering-wheels, Electric heater for. E. J. Rohne. No. 1,345,249; June 29; v. 275; p. 957.
Steering-wheels, Writing attachment for automobile. A. C. Fox. No. 1,344,498; June 22; v. 275; p. 748.
Stein. A. G. Wiedmann. No. 1,344,072; June 22; v. 275; p. 664.
Stepladder. H. A. Udell. No. 1,342,881; June 8; v. 275; p. 302.
Stepladder, Combined extensible or adjustable and foldable. J. Jonsson. No. 1,342,542; June 8; v. 275; p. 234.
Stereopticon. W. R. Mengel. No. 1,342,560; June 8; v. 275; p. 238.
Stereopticon. W. R. Mengel. No. 1,342,561; June 8; v. 275; p. 239.
Sterilizer. C. W. Bryant. No. 1,345,123; June 29; v. 275; p. 933.
Sterilizer-rack. H. Baehr. No. 1,344,252; June 22; v. 275; p. 698.
Sterilizing apparatus. I. W. P. Buchanan. No. 1,343,108; June 8; v. 275; p. 347.
Sterilizing-pan. C. C. Herbert. No. 1,343,779; June 15; v. 275; p. 542.
Stethoscope. S. H. Rubin. No. 1,344,655; June 29; v. 275; p. 844.
Stitching machine, Book-. M. Christensen. No. 1,344,441; June 22; v. 275; p. 736.
Stitching machine, Mattress-side-. F. W. H. Collett. No. 1,342,423; June 8; v. 275; p. 211.
Stitching machines, Duplex needle-plate for sole-. T. S. Graham. No. 1,342,903; June 8; v. 275; p. 306.
Stock-cutting machine. E. E. Winkley. No. 1,342,144; June 1; v. 275; p. 104.
Stock indicating and recording device. W. M. Kelly. No. 1,343,511; June 15; v. 275; p. 488.
Stock-tie lead. J. C. Chester. No. 1,347,791; June 29; v. 275; p. 870.
Stoker, Mechanical. J. G. Midgley. No. 1,341,923; June 1; v. 275; p. 61.
Stoking mechanism, Automatic. J. A. Carey. No. 1,344,578; June 22; v. 275; p. 764.
Stone making, Artificial-. R. I. Kline. No. 1,344,087; June 22; v. 275; p. 667.
Stones or slabs of marble-like appearance, Production of artificial. H. Grönroos. No. 1,341,979; June 1; v. 275; p. 72.
Stool or chair, Adjustable. H. Shaw. No. 1,344,092; June 22; v. 275; p. 668.
Stop motion. E. U. Ames. No. 1,342,245; June 1; v. 275; p. 125.
Stop-motion, Roller-lap. J. and C. Heywood. No. 1,342,713; June 8; v. 275; p. 268.
Stop-motion, Take-up. H. R. Bauer and H. F. Reinhold. No. 1,342,272; June 1; v. 275; p. 130.
Stopper: *See*—
Bottle-stopper.
Stopper-puller. T. C. Spelling. No. 1,341,680; June 1; v. 275; p. 13.
Storage building. E. W. Burgess. No. 1,344,617; June 29; v. 275; p. 837.
Store construction. J. M. Turner. No. 1,343,801; June 15; v. 275; p. 546.
Stove. C. J. Berglann. No. 1,343,341; June 15; v. 275; p. 455.
Stove. B. H. Dickson and J. E. Fry. No. 1,343,122; June 8; v. 275; p. 350.
Stove. J. Flint. No. 1,342,163; June 1; v. 275; p. 108.
Stove. P. P. Melanson. No. 1,342,921; June 8; v. 275; p. 310.
Stove attachment for gas-jets, Cook-. W. H. Vincent. No. 1,345,295; June 29; v. 275; p. 967.
Stove, Gas-. S. Kobe. No. 1,344,136; June 22; v. 275; p. 676.
Stove, Heating-. G. G. Scarborough. No. 1,343,645; June 15; v. 275; p. 515.
Stove, Portable. T. E. Taylor. No. 1,342,072; June 1; v. 275; p. 90.
Stove, Portable heating-. M. J. Otto. No. 1,343,578; June 15; v. 275; p. 502.
Stoves, Safety attachment for gas-. H. Baehr. No. 1,344,253; June 22; v. 275; p. 698.
Stoves, Separator for gas-. L. V. Ziegler. No. 1,344,670; June 29; v. 275; p. 847.
Strainer. H. Mock. No. 1,343,679; June 15; v. 275; p. 522.
Strainer, Sugar-juice. M. E. Carter. No. 1,343,078; June 8; v. 275; p. 341.
Straw-spreader. G. A. Hensel. No. 1,343,265; June 15; v. 275; p. 440.
Stream-line bodies, Forming. W. H. Kempton, B. J. Gudge, and F. P. Lauffer. No. 1,344,765; June 29; v. 275; p. 865.
Street-indicator. S. D. Roberson. No. 1,342,394; June 1; v. 275; p. 152.
Stretcher, sick-bed, and the like. M. Lundbom. No. 1,344,088; June 22; v. 275; p. 667.
Strut, Fusible. J. Dawson. No. 1,342,203; June 1; v. 275; p. 116.
Submarine detecting and destroying apparatus. W. E. Williams. No. 1,344,074; June 22; v. 275; p. 665.
Subsill and draft-arm. W. M. Ryan. No. 1,345,257; June 29; v. 275; p. 959.
Sucker-rods, Tool for replacing. E. B. Hatch. No. 1,343,821; June 15; v. 275; p. 550.
Suction cleaning-machine, Portable. D. P. Moore and S. B. Pack. No. 1,342,345; June 1; v. 275; p. 143.
Sugar, Extracting. L. Naudet. No. 1,343,737; June 15; v. 275; p. 533.
Sugar, Machine for stirring maple-. M. Hanauer. No. 1,341,743; June 1; v. 275; p. 26.
Sugar-mill housings, Top cap for. J. I. Boyer. No. 1,344,287; June 22; v. 275; p. 706.
Suitcase-handle. E. C. Horstman. No. 1,342,677; June 8; v. 275; p. 260.
Suitcases, valises, and the like, Disappearing handle for. H. J. Chilton. No. 1,343,195; June 15; v. 275; p. 428.
Sulfate from solution, Removal of sodium. F. A. Freeth and H. E. Cocksedge. No. 1,343,443; June 15; v. 275; p. 475.
Sulfite, Making sodium. E. O. Barstow. No. 1,343,897; June 22; v. 275; p. 630.
Sulfur dioxid, Producing. F. Laist and F. F. Frick. No. 1,344,905; June 29; v. 275; p. 892.
Sun-dial and compass. M. M. Madden. No. 1,343,515; June 15; v. 275; p. 489.
Superheater, Steam-. W. L. Riley. No. 1,344,211; June 22; v. 275; p. 690.
Supporter. R. E. Uhl. No. 1,344,068; June 22; v. 275; p. 664.
Survey-post. A. W. Albrecht. No. 1,345,111; June 29; v. 275; p. 930.
Surveying-instrument carrier. C. G. Hastings. No. 1,344,947; June 29; v. 275; p. 899.
Suspenders, Invisible. A. F. Young. No. 1,342,704; June 8; v. 275; p. 266.
Suspension device. A. Jeantin. No. 1,345,089; June 29; v. 275; p. 926.
Swatter, Insect-. A. Smith, Jr. No. 1,342,974; June 8; v. 275; p. 320.
Swimming appliance. G. W. Bechtel. No. 1,342,619; June 8; v. 275; p. 249.
Swing. J. Jochumsen and G. A. Netcott. No. 1,345,333; June 29; v. 275; p. 974.
Swing, Lawn-. H. C. Gallipp. No. 1,343,124; June 8; v. 275; p. 350.
Swinging gate. M. Reh. No. 1,344,820; June 29; v. 275; p. 876.
Switch: *See*—
Electric switch.
Key-switch.
Lamp-switch.
Locking-switch.
Railway-switch.
Retarded switch.
Socket-switch.
Switch. C. T. Henderson. No. 1,342,674; June 8; v. 275; p. 260.
Switch. J. Schneider. No. 1,343,793; June 15; v. 275; p. 545.
Switch-adjustment housing. R. R. Baker. No. 1,344,848; June 29; v. 275; p. 881.
Switch construction. L. P. Hutt. No. 1,342,999; June 8; v. 275; p. 325.
Switch-frog. L. Horvath and T. J. Blackburn. No. 1,342,332; June 1; v. 275; p. 140.
Switch-locking safety-panel. H. F. Krantz. No. 1,342,550; June 8; v. 275; p. 236.
Switch mechanism. H. F. Krantz. No. 1,342,548; June 8; v. 275; p. 236.
Switch mechanism, Safety-. H. F. Krantz. No. 1,342,219; June 1; v. 275; p. 120.
Switch mechanism with door-interlock. H. F. Krantz. No. 1,342,549; June 8; v. 275; p. 236.
Switch-operating mechanism. T. H. Schutt. No. 1,341,764; June 1; v. 275; p. 30.
Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,342,546; June 8; v. 275; p. 235.
Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,342,547; June 8; v. 275; p. 236.
Switching mechanism, Selective. R. G. Richardson. No. 1,344,822; June 29; v. 275; p. 876.
Swivel-leg, Collapsible. W. G. Gagné. No. 1,342,951; June 8; v. 275; p. 316.
Syringe. E. Neil. No. 1,343,787; June 15; v. 275; p. 543.
Table: *See*—
Drawing-table.
Extension-table.
Ore-concentrating table.
Printer's table.
Roller-table.
Self-serving table.
Work-supporting table.
Table and book-stand, Combined. W. W. Killion. No. 1,345,197; June 29; v. 275; p. 947.
Table and ironing-board, Combination. H. Hoeglund. No. 1,342,109; June 1; v. 275; p. 98.
Table and ironing-board, Combined. W. W. Anderson. No. 1,342,660; June 8; v. 275; p. 256.
Table and seat, Combined. W. Kornaszewski. No. 1,342,387; June 1; v. 275; p. 150.
Table-drawer. L. O. Johnson. No. 1,345,194; June 29; v. 275; p. 946.
Table for gravitational separation of comminuted material, Riffled pneumatic concentrating-. C. W. Eccleston. No. 1,343,497; June 15; v. 275; p. 485.
Tablet. C. V. Hayes. No. 1,343,778; June 15; v. 275; p. 542.

Tablet-press. B. S. Schoenkerman. No. 1,344,091; June 22; v. 275; p. 667.
Tack-feeding mechanism. A. Perri. No. 1,341,821; June 1; v. 275; p. 41.
Tack-holder. U. G. Sweeney. No. 1,344,157; June 22; v. 275; p. 680.
Tag, Shipping-. L. F. Troja. (Reissue.) No. 14,883; June 15; v. 275; p. 565.
Tag-threading machine. F. C. Suchy. No. 1,343,290; June 15; v. 275; p. 445.
Talking-machine. M. Krauss. No. 1,341,751; June 1; v. 275; p. 27.
Talking-machine reproducer. F. Adams. No. 1,344,931; June 29; v. 275; p. 897.
Tamper implement. N. C. Study. No. 1,341,945; June 1; v. 275; p. 65.
Tamping-machine. N. C. Study. No. 1,341,944; June 1; v. 275; p. 65.
Tandem implement. E. J. Powell. No. 1,344,819; June 29; v. 275; p. 876.
Tank: *See*—
Automobile-tank.
Fuel-reserve tank.
Oil-tank.
Settling-tank.
Toy tank.
Vacuum-tank.
Tank. I. C. Douglass. No. 1,343,169; June 8; v. 275; p. 359.
Tank. K. I. Small. No. 1,343,412; June 15; v. 275; p. 469.
Tank. C. A. Xardell. No. 1,341,965; June 1; v. 275; p. 69.
Tank or redoubt for military use, Self-propelled. F. W. Cunard. No. 1,342,943; June 8; v. 275; p. 314.
Tanning machinery. J. and J. Wright. No. 1,343,756; June 15; v. 275; p. 537.
Tanning material and producing same. A. Koetzle. No. 1,344,950; June 29; v. 275; p. 900.
Tanning material and producing same. A. Koetzle. No. 1,344,951; June 29; v. 275; p. 900.
Tanning material and producing same. A. Koetzle. No. 1,344,952; June 29; v. 275; p. 900.
Tap. G. E. Miller. No. 1,342,754; June 8; v. 275; p. 276.
Tap and faucet. J. C. Shafer. No. 1,344,827; June 29; v. 275; p. 877.
Tap, Collapsing. E. M. Buckins. No. 1,344,113; June 22; v. 275; p. 672.
Target. O. Klein. No. 1,342,022; June 1; v. 275; p. 80.
Target. W. A. Mosby. No. 1,341,814; June 1; v. 275; p. 40.
Teacups, saucepans, and the like, Detachable handle for. J. P. Morine. No. 1,341,756; June 1; v. 275; p. 29.
Teeth, Method and device for producing plates for. M. Rice. No. 1,343,935; June 22; v. 275; p. 638.
Telegraph-key. W. P. Liles. No. 1,341,810; June 1; v. 275; p. 39.
Telegraph system. P. M. Rainey. No. 1,341,998; June 1; v. 275; p. 75.
Telemotor. M. B. Benson. No. 1,345,060; June 29; v. 275; p. 920.
Telemotor apparatus. W. Wallace. No. 1,342,238; June 1; v. 275; p. 1-3.
Telephone and phonograph, Combined. J. F. Malthaner. No. 1,344,918; June 29; v. 275; p. 894.
Telephone apparatus for the deaf. E. C. Hanson. No. 1,343,717; June 15; v. 275; p. 530.
Telephone attachment. S. M. Knopf. No. 1,341,855; June 1; v. 275; p. 48.
Telephone-exchange automatic switching system. E. A. Mellinger. No. 1,343,462; June 15; v. 275; p. 478.
Telephone-exchange system. A. E. Lundell and E. H. Clark. No. 1,342,823; June 8; v. 275; p. 291.
Telephone-exchange system, Graded-service electromechanical. G. Helmann. No. 1,341,801; June 1; v. 275; p. 38.
Telephone-exchange trunking system. B. D. Willis. No. 1,342,242; June 1; v. 275; p. 124.
Telephone-exchanges, System for interconnecting manual and automatic. G. D. Wolf. No. 1,343,489; June 15; v. 275; p. 484.
Telephone-repeater, Automatic. R. G. Richardson. No. 1,344,210; June 22; v. 275; p. 690.
Telephone switching apparatus, Toll-. H. M. Friendly and A. E. Burns. No. 1,342,260; June 1; v. 275; p. 127.
Telephone system. L. C. Bygrave and T. M. Inman. No. 1,342,792; June 8; v. 275; p. 284.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,343,903; June 22; v. 275; p. 631.
Telephone system. C. L. Goodrum. No. 1,342,902; June 8; v. 275; p. 306.
Telephone system. G. Grabe. No. 1,343,714; June 15; v. 275; p. 529.
Telephone system. A. E. Lundell and F. A. Stearn. No. 1,345,016; June 29; v. 275; p. 912.
Telephone system. G. A. Yanochowski. No. 1,344,195; June 22; v. 275; p. 687.
Telephone system, Automatic. R. G. Richardson. No. 1,344,823; June 29; v. 275; p. 876.
Telephone system, Automatic. F. J. Truby. No. 1,343,989; June 22; v. 275; p. 648.
Telephone system, Automatic. B. D. Willis. No. 1,345,054; June 29; v. 275; p. 919.
Telephone system, Semi-automatic. J. Wicks. No. 1,342,241; June 1; v. 275; p. 124.
Telephone-transmitter. W. and J. Birrell. No. 1,341,837; June 1; v. 275; p. 44.
Telephone-transmitter. W. and J. Birrell. No. 1,342,581; June 8; v. 275; p. 243.
Telephone-transmitter. W. and J. Birrell. No. 1,342,582; June 8; v. 275; p. 243.
Telephone-transmitter. S. C. Porter. No. 1,341,997; June 1; v. 275; p. 75.
Telephonic apparatus. M. Weil. No. 1,345,049; June 29; v. 275; p. 919.
Telescopes, Illuminating attachment for. E. L. Beck. No. 1,343,074; June 8; v. 275; p. 340.
Telescopic container. J. F. Powell. No. 1,344,716; June 29; v. 275; p. 855.
Tension device. P. A. Bishop. No. 1,344,672; June 29; v. 275; p. 847.
Tension device. C. T. Evans. No. 1,343,910; June 22; v. 275; p. 633.
Tent. W. K. Smith. No. 1,342,234; June 1; v. 275; p. 122.
Tent and hammock. L. E. Trimm. No. 1,343,800; June 15; v. 275; p. 546.
Tent, Folding. F. Schilling, Sr. No. 1,345,108; June 29; v. 275; p. 930.
Testing apparatus. G. O. Berger. No. 1,343,611; June 15; v. 275; p. 508.
Testing pole-windings, Device for. J. F. Cullin. No. 1,345,075; June 29; v. 275; p. 923.
Thermo-couples, Compensating device for. C. B. Thwing. No. 1,344,462; June 22; v. 275; p. 741.
Thermometer operated by the pressure of saturated vapor. L. P. X. Jeannet. No. 1,343,454; June 15; v. 275; p. 477.
Thread-gages, Manufacture of. J. Samotej. No. 1,344,607; June 22; v. 275; p. 770.
Thread package or holder. R. Reynolds. No. 1,343,934; June 22; v. 275; p. 637.
Threads, Work-holder for milling. L. Court. No. 1,343,435; June 15; v. 275; p. 473.
Threshing-machine. J. E. Gross. No. 1,342,806; June 8; v. 275; p. 287.
Threshing-machine. O. Steinborn. No. 1,344,599; June 22; v. 275; p. 768.
Threshing-machines, Feed mechanism for. J. N. Shanks. No. 1,342,574; June 8; v. 275; p. 241.
Throttle-controlling mechanism. L. L. Scott. No. 1,343,750; June 15; v. 275; p. 536.
Ticket-holder. F. E. McDonald. No. 1,344,420; June 22; v. 275; p. 732.
Ticket holder, Reversible railway-. W. Levy. No. 1,343,569; June 15; v. 275; p. 500.
Tie: *See*—
Railway-tie.
Tie-plate. C. T. Grimm. No. 1,343,262; June 15; v. 275; p. 440.
Tie-plate and rail-brace, Combined. D. F. Vaughan. No. 1,342,194; June 1; v. 275; p. 114.
Tiering-machine. W. E. Boehck. No. 1,342,982; June 8; v. 275; p. 321.
Tile, Mold for making building-. L. H. de Fernelmont. No. 1,342,208; June 1; v. 275; p. 117.
Timber, Treating. H. K. Hess. No. 1,344,891; June 29; v. 275; p. 889.
Time-announcer, Phonographic. J. G. Blessing. No. 1,343,302; June 15; v. 275; p. 447.
Timepieces, Pin-anchor escapement for. T. Toda. No. 1,343,798; June 15; v. 275; p. 546.
Timer. J. A. Holm. No. 1,344,395; June 22; v. 275; p. 727.
Tire. F. Ditchfield. No. 1,344,025; June 22; v. 275; p. 655.
Tire. W. H. McGowen. No. 1,341,656; June 1; v. 275; p. 8.
Tire. A. J. Meyer. No. 1,342,562; June 8; v. 275; p. 239.
Tire. G. D. Pearson. No. 1,345,228; June 29; v. 275; p. 953.
Tire. C. E. Williams. No. 1,343,860; June 15; v. 275; p. 559.
Tire. C. E. Williams. No. 1,343,861; June 15; v. 275; p. 559.
Tire and filling therefor, Resilient. J. Stander. No. 1,343,233; June 15; v. 275; p. 435.
Tire, Automobile-. G. G. Martin. No. 1,342,339; June 1; v. 275; p. 141.
Tire, Automobile-. R. L. Prudhomme. No. 1,342,297; June 1; v. 275; p. 134.
Tire-carrier, Adjustable. W. R. Green. No. 1,344,202; June 22; v. 275; p. 689.
Tire-carrier, Adjustable. W. R. Green. No. 1,344,944; June 29; v. 275; p. 899.
Tire carrier, Vehicle-. W. E. Dunstan. No. 1,343,964; June 22; v. 275; p. 643.
Tire-casing. D. Neal. No. 1,341,663; June 1; v. 275; p. 10.
Tire casings and tubes, Machine for building. W. R. Major and F. H. Grove. No. 1,343,399; June 15; v. 275; p. 466.
Tire-casings, Spreader for. A. and A. A. Mieloch. No. 1,342,565; June 8; v. 275; p. 239.
Tire-chain fastener. E. M. Nelson. No. 1,341,924; June 1; v. 275; p. 61.
Tire-changer. I. A. Weaver. No. 1,341,727; June 1; v. 275; p. 22.
Tire-changing appliance. I. A. Weaver and J. Sternaman. No. 1,341,728; June 1; v. 275; p. 23.
Tire-changing machine. I. A. Weaver and J. Sternaman, Jr. No. 1,341,726; June 1; v. 275; p. 22.

Tire-changing mechanism. I. A. Weaver. No. 1,341,729; June 1; v. 275; p. 23.
Tire-cover. E. J. Herchert. No. 1,342,169; June 1; v. 275; p. 109.
Tire, Cushion. F. A. Krusemark, L. G. Funkhouser, and H. G. Carpenter. No. 1,344,346; June 22; v. 275; p. 718.
Tire, Cushion-. L. W. Ostmann. No. 1,343,154; June 8; v. 275; p. 355.
Tire, Elastic vehicle-. W. E. Russell. No. 1,345,256; June 29; v. 275; p. 958.
Tire-filler, Resilient. A. L. Runyan. No. 1,343,685; June 15; v. 275; p. 523.
Tire for automobiles, Demountable metal. F. Pataye. No. 1,343,840; June 15; v. 275; p. 554.
Tire-guard. J. Friesen. No. 1,345,163; June 29; v. 275; p. 941.
Tire-heater. J. J. Fahrney. No. 1,343,045; June 8; v. 275; p. 334.
Tire-mileage indicator. T. T. and J. W. Watson. No. 1,343,535; June 15; v. 275; p. 493.
Tire-oven. I. C. Howlett. No. 1,345,188; June 29; v. 275; p. 946.
Tire-removing appliance. I. A. Weaver and J. Sternaman. No. 1,341,730; June 1; v. 275; p. 23.
Tire, Resilient. V. L. Buchman. No. 1,342,158; June 1; v. 275; p. 107.
Tire, Resilient. A. A. Culbertson. No. 1,343,766; June 15; v. 275; p. 539.
Tire, Resilient. L. D. Hughes. No. 1,343,172; June 8; v. 275; p. 359.
Tire, Resilient. F. Perdala. No. 1,343,155; June 8; v. 275; p. 356.
Tire-rim, Separable. V. R. Teague. No. 1,345,282; June 29; v. 275; p. 964.
Tire, Spring-. J. W. Bassham. No. 1,344,974; June 29; v. 275; p. 904.
Tire-support. H. M. Smith. No. 1,343,526; June 15; v. 275; p. 491.
Tire-valve. A. C. Berg. No. 1,344,854; June 29; v. 275; p. 889.
Tire, Vehicle-. J. Allend. No. 1,343,540; June 15; v. 275; p. 494.
Tire, Wheel-. W. Seidel. No. 1,344,773; June 29; v. 275; p. 867.
Tires, Antiskid device for. G. B. Waite. No. 1,343,293; June 15; v. 275; p. 445.
Tires, Apparatus for repairing. J. W. Arthur. No. 1,344,847; June 29; v. 275; p. 881.
Tires, Carcass fabric for pneumatic. J. F. Palmer. No. 1,344,145; June 22; v. 275; p. 678.
Tires, Display-stand for. C. W. Yelm. No. 1,342,731; June 8; v. 275; p. 271.
Tires, Mandrel for making inner tubes for pneumatic. F. R. McCarty. No. 1,344,702; June 29; v. 275; p. 853.
Tires, Manufacture of. C. Macbeth. No. 1,343,460; June 15; v. 275; p. 478.
Tires, Multiple-compartment inner tube for automobile and other. J. N. Shafer. No. 1,341,936; June 1; v. 275; p. 64.
Tires or interliners, Apparatus for manufacturing. W. F. Ray. (Reissue.) No. 14,879; June 8; v. 275; p. 363.
Tires, Tool for use in removing and replacing. V. H. Mankey. No. 1,342,295; June 1; v. 275; p. 134.
Tires, Tread-block for. G. B. Waite. No. 1,343,294; June 15; v. 275; p. 446.
Titanium compounds, Producing. P. Farup. No. 1,343,441; June 15; v. 275; p. 474.
Titanium products and producing same from precipitated titanium hydrates. R. Nielsen and V. M. Goldschmidt. No. 1,343,469; June 15; v. 275; p. 479.
Toaster. T. Harrington. No. 1,343,129; June 8; v. 275; p. 351.
Tobacco-pipe, cigar-holder, and the like. A. Dunhill and T. G. Mandeville. No. 1,343,253; June 15; v. 275; p. 438.
Tobacco-smoking device. J. Flajollet. No. 1,344,874; June 29; v. 275; p. 886.
Toilet article, Combination. R. E. Brown. No. 1,343,959; June 15; v. 275; p. 642.
Toilet-case. H. Felsenthal and L. W. Kaestner. No. 1,344,124; June 22; v. 275; p. 674.
Tomato-masher. E. Spirito. No. 1,342,877; June 8; v. 275; p. 301.
Tongs. A. H. Lee. No. 1,343,057; June 8; v. 275; p. 336.
Tongs, Fruit-jar. F. M. Masker. No. 1,343,518; June 15; v. 275; p. 489.
Tongue, Cultivator-. I. A. Franklin and S. E. Mangum. No. 1,343,258; June 15; v. 275; p. 439.
Tongue-depressor. C. M. Bugbee. No. 1,344,020; June 22; v. 275; p. 654.
Tongue, Vehicle-. D. Cameron. No. 1,345,125; June 29; v. 275; p. 933.
Tool, Auto-rim. P. O. Probasco. No. 1,344,562; June 22; v. 275; p. 710.
Tool-box and sawhorse, Combination. O. B. Robbins. No. 1,345,247; June 29; v. 275; p. 957.
Tool, Brickmason's. D. E. Hale and J. E. McCormick. No. 1,342,439; June 8; v. 275; p. 215.
Tool, Cap-removing. C. L. Johnson. No. 1,342,848; June 8; v. 275; p. 295.
Tool, Carbon-removing. H. F. Martin. No. 1,344,549; June 22; v. 275; p. 758.
Tool, Combination-. O. T. Carlson. No. 1,344,114; June 22; v. 275; p. 672.
Tool, Combination-. O. Lee. No. 1,344,046; June 22; v. 275; p. 659.
Tool, Compound. W. H. Crummey. No. 1,344,264; June 22; v. 275; p. 701.
Tool, Compound pneumatic impact-. W. Burlingham. No. 1,344,170; June 22; v. 275; p. 683.
Tool, Cutting-. J. T. Dietz. No. 1,345,320; June 29; v. 275; p. 971.
Tool, Dressing-. W. E. Ross. No. 1,343,871; June 15; v. 275; p. 562.
Tool-driver, Power-driven. G. D. Alexander. No. 1,341,701; June 1; v. 275; p. 17.
Tool, Fluid-operated. C. A. Hultquist. No. 1,342,540; June 8; v. 275; p. 234.
Tool, Fluid-operated percussive. L. C. Bayles. No. 1,343,610; June 15; v. 275; p. 508.
Tool, Garden-. O. H. Oleen. No. 1,341,392; June 1; v. 275; p. 151.
Tool-handle. H. S. Earle. No. 1,343,552; June 15; v. 275; p. 497.
Tool-handles, Wedge-fastener for. J. S. Johnston. No. 1,343,781; June 15; v. 275; p. 542.
Tool-holder. M. J. Breen. No. 1,342,983; June 8; v. 275; p. 322.
Tool-holder. J. C. Fletcher. No. 1,343,257; June 15; v. 275; p. 439.
Tool-holder. G. Kalberer. No. 1,344,557; June 22; v. 275; p. 756.
Tool-holder. M. W. Schillberg. No. 1,342,600; June 8; v. 275; p. 246.
Tool-holder. G. C. Schoenborn. No. 1,341,934; June 1; v. 275; p. 63.
Tool-holder. A. Skibinski. No. 1,342,031; June 1; v. 275; p. 82.
Tool, Insulated. J. A. Weaver. No. 1,343,101; June 8; v. 275; p. 345.
Tool-joint. G. A. and R. M. Stafford. No. 1,344,774; June 29; v. 275; p. 867.
Tool, Machine-. H. G. Krauss. No. 1,344,236; June 22; v. 275; p. 695.
Tool, Mechanic's. A. Ozerowicz. No. 1,341,757; June 1; v. 275; p. 29.
Tool, Precision machine-. A. E. Jerram. No. 1,344,536; June 22; v. 275; p. 755.
Tool-support. H. F. Haensler. No. 1,341,848; June 1; v. 275; p. 47.
Tool, Tire-. J. Bjornlie. No. 1,343,893; June 22; v. 275; p. 629.
Tool, Tire-repair. H. R. Hirst. No. 1,343,971; June 22; v. 275; p. 644.
Tool, Tire-repair. C. Wieland. No. 1,344,838; June 29; v. 275; p. 879.
Tool, Valve-face-cutting. H. F. Martin. No. 1,344,550; June 22; v. 275; p. 758.
Tool, Valve-grinding. J. E. Wainwright. No. 1,345,043; June 29; v. 275; p. 917.
Tool, Vulcanizing-. O. A. Peterson and O. M. Brancel. No. 1,344,313; June 22; v. 275; p. 711.
Tool, Welding-. R. E. B. Wakefield. No. 1,343,242; June 15; v. 275; p. 437.
Tool, Well-drilling. W. A. McCausland. No. 1,342,855; June 8; v. 275; p. 297.
Tooth, Artificial. S. Earp. No. 1,342,376; June 1; v. 275; p. 148
Tooth, Artificial. M. E. Merker. No. 1,341,813; June 1; v. 275; p. 40.
Tooth having an interchangeable facing. F. C. Goodwin. No. 1,342,379; June 1; v. 275; p. 149.
Toothbrush. R. H. Lieberthel. No. 1,343,570; June 15; v. 275; p. 500.
Toothbrush and dentifrice holder, Pocket. C. E. Townsend. No. 1,343,240; June 15; v. 275; p. 436.
Toothbrush, Electrically-vibrated. P. J. Fitzgerald. No. 1,342,280; June 1; v. 275; p. 131.
Toothbrush, Protected. K. Yanagihara. No. 1,342,521; June 8; v. 275; p. 230.
Toothbrush, Rotary. B. W. Leach. No. 1,341,916; June 1; v. 275; p. 59.
Top, Folding. M. Buch. No. 1,342,012; June 1; v. 275; p. 78.
Topping and stripping machine. H. O. Scranton. No. 1,343,589; June 15; v. 275; p. 504.
Torch. W. F. Pagel. No. 1,343,403; June 15; v. 275; p. 467.
Torch, Blow-. F. W. Clifford. No. 1,344,988; June 29; v. 275; p. 907.
Torch for cutting tubes, Oxyacetylene-. J. S. Reynolds. No. 1,345,242; June 29; v. 275; p. 956.
Torpedo, Railway signal-. E. C. Pfeil and H. O. Bemisderfer. No. 1,343,841; June 15; v. 275; p. 554.
Toy. G. Curry. No. 1,345,140; June 29; v. 275; p. 936.
Toy. F. L. Dorsk. No. 1,342,945; June 8; v. 275; p. 314.
Toy. P. V. Jermyn. No. 1,345,009; June 29; v. 275; p. 911.
Toy. G. H. Marsden. No. 1,344,548; June 22; v. 275; p. 758.
Toy. D. D. Moore. No. 1,342,344; June 1; v. 275; p. 143.
Toy. S. A. Neederman. No. 1,345,328; June 29; v. 275; p. 973.
Toy. M. L. J. Richard. No. 1,344,451; June 22; v. 275; p. 739.
Toy. J. J. Soulliard. No. 1,344,064; June 22; v. 275; p. 663.

Toy. W. W. White 3. W. No. 1,342,037; June 1; v. 275; p. 83.
Toy aeroplane. B. H. Harris. No. 1,342,998; June 8; v. 275; p. 325.
Toy airplane. P. O. Roth. No. 1,344,520; June 22; v. 275; p. 752.
Toy device. I. Zion. No. 1,342,577; June 8; v. 275; p. 242.
Toy gun. J. A. Talbot. No. 1,342,700; June 8; v. 275; p. 265.
Toy gun, Electrical. T. Halliuan. No. 1,343,127; June 8; v. 275; p. 351.
Toy, Mechanical. V. S. Gaines. (Reissue.) No. 14,902; June 29; v. 275; p. 975.
Toy, Musical. W. E. Goschke. No. 1,345,085; June 29; v. 275; p. 925.
Toy submarine. A. C. Gilbert. No. 1,344,632; June 29; v. 275; p. 839.
Toy swing-chair and sulky. F. Karschitz. No. 1,343,000; June 8; v. 275; p. 325.
Toy tank, Automatic self-propelled. C. A. Lewis and H. E. Smock. No. 1,343,834; June 15; v. 275; p. 553.
Toy umbrella. E. L. Brown. No. 1,345,067; June 29; v. 275; p. 922.
Toy vehicle. M. E. Carr. No. 1,345,127; June 29; v. 275; p. 934.
Toy vehicle. A. C. Klenke. No. 1,345,092; June 29; v. 275; p. 927.
Track-adjusting machine. J. Knutsen. No. 1,341,912; June 1; v. 275; p. 59.
Track-laying machine. H. Hall. No. 1,345,175; June 29; v. 275; p. 943.
Traction device. W. J. Chism. No. 1,343,658; June 15; v. 275; p. 517.
Traction-engine. S. L. Timmons. No. 1,342,779; June 8; v. 275; p. 282.
Traction-engine. W. Turnbull. No. 1,344,360; June 22; v. 275; p. 720.
Tractor. C. J. Allen. No. 1,342,523; June 8; v. 275; p. 231.
Tractor. G. A. Armington. No. 1,342,412; June 8; v. 275; p. 209.
Tractor. S. G. Baits and S. I. Fekete. No. 1,342,934; June 8; v. 275; p. 312.
Tractor. W. L. Bodman. No. 1,342,791; June 8; v. 275; p. 284.
Tractor. J. M. Bowen. No. 1,343,303; June 15; v. 275; p. 447.
Tractor. W. Christie. (Reissue.) No. 14,868; June 1; v. 275; p. 156.
Tractor. J. W. Diederich. No. 1,342,427; June 8; v. 275; p. 212.
Tractor. J. R. Fonch. No. 1,342,401; June 1; v. 275; p. 153.
Tractor. P. J. Gietzen. No. 1,345,166; June 29; v. 275; p. 941.
Tractor. R. P. Hicks. No. 1,341,851; June 1; v. 275; p. 47.
Tractor. C. H. Kugler. No. 1,343,783; June 15; v. 275; p. 543.
Tractor. J. W. Livermore. No. 1,343,979; June 22; v. 275; p. 646.
Tractor. J. F. M. Patitz. No. 1,344,209; June 22; v. 275; p. 690.
Tractor. A. E. Schaaf and S. W. Mills. No. 1,342,764; June 8; v. 275; p. 278.
Tractor. A. E. Schaaf and S. W. Mills. No. 1,342,765; June 8; v. 275; p. 279.
Tractor-coupling. J. F. Wingert, Jr. No. 1,342,011; June 1; v. 275; p. 78.
Tractor, Farm-. J. E. Meyer. No. 1,343,464; June 15; v. 275; p. 479.
Tractor-frame suspension. W. Turnbull. No. 1,344,363; June 22; v. 275; p. 721.
Tractor-wheel. P. R. Zieche. No. 1,342,493; June 8; v. 275; p. 225.
Tractors, Traction-chain for caterpillar-. F. A. Putnam and O. C. Reyoum. No. 1,341,761; June 1; v. 275; p. 29.
Traffic-controlling apparatus, Railway-. L. F. Howard. No. 1,341,982; June 1; v. 275; p. 72.
Trailers to tractors, Device for coupling. F. T. Falco. No. 1,342,949; June 8; v. 275; p. 315.
Train-controlling apparatus. D. H. Schweyer. No. 1,342,873; June 8; v. 275; p. 300.
Train-controlling system. B. A. Prince and E. I. La Count. No. 1,342,572; June 8; v. 275; p. 241.
Train-pipe connector, Automatic. J. V. Robinson. (Reissue.) No. 14,873; June 1; v. 275; p. 156.
Train-stop, Automatic. R. Waller. No. 1,343,857; June 15; v. 275; p. 558.
Transformer. V. Bush. No. 1,342,250; June 1; v. 275; p. 125.
Transformer, High-voltage. S. E. Johannesen. (Reissue.) No. 14,891; June 22; v. 275; p. 771.
Transformer, Rotary. T. F. Barton. No. 1,343,026; June 8; v. 275; p. 330.
Transmission mechanism. J. J. Duffy. No. 1,342,587; June 8; v. 275; p. 244.
Transmission mechanism, Double-gear-. E. E. Wickersham. No. 1,344,366; June 22; v. 275; p. 722.
Transportation system. J. Conlon. No. 1,342,531; June 8; v. 275; p. 232.
Trap: *See*—
Animal-trap.
Gopher-trap.
Rat-trap.
Trap. F. H. Crago. No. 1,342,425; June 8; v. 275; p. 212.
Trap. A. Enos. No. 1,342,328; June 1; v. 275; p. 139.
Trap. J. H. Greer. No. 1,343,502; June 15; v. 275; p. 486.
Trash and sod chopper or cutter. L. L. Ruebush. No. 1,341,825; June 1; v. 275; p. 42.
Trash-turner. J. Miller. No. 1,343,059; June 8; v. 275; p. 337.
Tray, Ash-. J. P. Griffin. No. 1,342,805; June 8; v. 275; p. 287.
Tray, Bed-. W. B. Mason and L. S. Ryan. No. 1,343,636; June 15; v. 275; p. 513.
Tray-piling machine. K. Sanwo. No. 1,342,463; June 8; v. 275; p. 219.
Tray-turner. G. L. Anderson. No. 1,344,932; June 29; v. 275; p. 897.
Tray-turner. A. Soderberg. No. 1,342,774; June 8; v. 275; p. 280.
Tray or basket, Dish-holding. W. J. Lynch. No. 1,341,717; June 1; v. 275; p. 20.
Tree: *See*—
Shoe-tree.
Trees, Method of and apparatus for sawing. H. C. Hanson and M. B. Sawyer. No. 1,342,213; June 1; v. 275; p. 118.
Trenching-machine. J. J. Hammen. No. 1,343,081; June 8; v. 275; p. 341.
Trichlorethylene from tetrachlorethane, Preparation of. A. Guyot. No. 1,343,716; June 15; v. 275; p. 529.
Trolley. W. A. Louden. No. 1,343,631; June 15; v. 275; p. 512.
Trolley. H. J. Spoden and J. B. Welsh. No. 1,343,592; June 15; v. 275; p. 504.
Trolley-guide box and shield. G. W. Bolden. No. 1,341,878; June 1; v. 275; p. 52.
Trolley-hanger. R. T. Todhunter, H. A. Duke, and A. Woods. No. 1,342,034; June 1; v. 275; p. 82.
Trolley-hangers, Attaching device for. J. A. Neely. No. 1,343,930; June 22; v. 275; p. 637.
Trolley system. J. Basil and F. Girardi. No. 1,342,579; June 8; v. 275; p. 242.
Trousers-protector. E. E. M. Bullowa. No. 1,341,733; June 1; v. 275; p. 24.
Trousers-supporting device. J. Sturm. No. 1,342,930; June 8; v. 275; p. 311.
Truck. M. P. Holmes. No. 1,342,407; June 1; v. 275; p. 155.
Truck and scale, Combined hand-. A. J. Bishop. No. 1,342,246; June 1; v. 275; p. 125.
Truck, Ash-. C. E. Le Page. No. 1,344,047; June 22; v. 275; p. 659.
Truck-bodies, Combined locking and lifting device for. B. J. Synstelien. No. 1,342,472; June 8; v. 275; p. 221.
Truck construction, Motor-. W. A. Kysor. No. 1,342,266; June 1; v. 275; p. 128.
Truck, Dumping-. A. D. Tait. No. 1,344,100; June 22; v. 275; p. 669.
Truck for overhead transportation systems, Carrier-. J. F. Montine. No. 1,344,924; June 29; v. 275; p. 895.
Truck, Hand-. J. F. Callahan. No. 1,342,585; June 8; v. 275; p. 243.
Truck, Loading and unloading. W. T. Hollaway. No. 1,342,628; June 8; v. 275; p. 250.
Truck, Motor-. C. J. McCutchen. No. 1,342,752; June 8; v. 275; p. 276.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,776; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,777; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,778; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,779; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,780; June 1; v. 275; p. 33.
Truck, Railway-car. G. A., Jr., and J. C. Boyden. No. 1,341,781; June 1; v. 275; p. 34.
Truck, Vehicle-wheel. W. W. Snyder. No. 1,343,650; June 15; v. 275; p. 516.
Truck, Vertically-adjustable hand-. H. R. Clark. No. 1,343,864; June 15; v. 275; p. 559.
Trucks, Axle-housing and fifth-wheel construction for motor-. W. S. Morton. No. 1,342,861; June 8; v. 275; p. 298.
Trunks, Hanger-retaining device for wardrobe-. W. W. Dunn and J. H. Beasley. No. 1,344,872; June 29; v. 275; p. 885.
Truss. J. Cunningham. No. 1,345,139; June 29; v. 275; p. 936.
Truss. G. H. Eddleman. No. 1,345,148; June 29; v. 275; p. 937.
Tub: *See*—
Ice-cream tub.
Tub. T. Harrington. No. 1,342,807; June 8; v. 275; p. 287.
Tubs, Water-controlling mechanism for laundry-. T. Birkenmaier. No. 1,345,311; June 29; v. 275; p. 970.
Tube: *See*—
Dental-cement-injecting tube.

Tube and product thereof, Splicing-. C. T. Hampton. No. 1,342,441; June 8; v. 275; p. 215.
Tube-scraping apparatus. L. F. Lechtenberg. No. 1,343,215; June 15; v. 275; p. 432.
Tubes, Apparatus for forming metallic. E. Warner. No. 1,343,946; June 22; v. 275; p. 640.
Tubes, Armor for inner. H. M. Stevens. No. 1,343,418; June 15; v. 275; p. 470.
Tubes, Forming. W. N. Vance. No. 1,344,105; June 22; v. 275; p. 670.
Tubes, Means for supporting electrodes in ionic. O. Durdle. No. 1,343,551; June 15; v. 275; p. 496.
Tubing. L. C. Stukenborg. No. 1,343,236; June 15; v. 275; p. 436.
Tumbler, Sand-blast. S. Coburn. No. 1,343,350; June 15; v. 275; p. 457.
Turbine. W. S. Elliott. No. 1,342,845; June 8; v. 275; p. 295.
Turbine arrangement, Marine steam-. J. F. Metten and J. C. Shaw. No. 1,342,177; June 1; v. 275; p. 111.
Turbine-blade attachment. C. A. Parsons, S. S. Cook, and A. J. Aldis. No. 1,344,311; June 22; v. 275; p. 711.
Turbine, Gas-. A. Underdahl. No. 1,342,314; June 1; v. 275; p. 137.
Turbine, Hydraulic. L. F. Moody. No. 1,341,859; June 1; v. 275; p. 49.
Turbine installation, Marine. R. N. Ehrhart. No. 1,343,665; June 15; v. 275; p. 519.
Turbine, Steam-. K. Baumann. No. 1,343,956; June 22; v. 275; p. 641.
Turbine, Steam-. A. J. Thompson. No. 1,345,285; June 29; v. 275; p. 964.
Turnbuckle. W. J. Myatt. No. 1,342,130; June 1; v. 275; p. 102.
Turnbuckle-wrench. C. J. Johnson. No. 1,344,800; June 29; v. 275; p. 872.
Turnstile. A. K. Collins. No. 1,342,253; June 1; v. 275; p. 126.
Turpentine and making same, Substitute for. R. C. Bone. No. 1,343,387; June 15; v. 275; p. 464.
Twine-holder. C. W. Hubbard. No. 1,344,274; June 22; v. 275; p. 703.
Twist-drill machine. R. W. and J. E. Hudson. No. 1,342,963; June 8; v. 275; p. 318.
Two-cycle engine. C. L. Bowden. No. 1,341,838; June 1; v. 275; p. 44.
Type-casting machine. J. S. Thompson. No. 1,345,286; June 29; v. 275; p. 965.
Type-holder. G. Hoffman. No. 1,343,917; June 22; v. 275; p. 634.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,341,995; June 1; v. 275; p. 74.
Typewriting and computing machine, Combined. H. L. Pitman. No. 1,345,102; June 29; v. 275; p. 928.
Typewriters, Carriage-return mechanism for. F. C. Breuckman and G. T. Arnold. No. 1,342,940; June 8; v. 275; p. 313.
Typewriting-machine. H. E. Bridgwater. No. 1,342,941; June 8; v. 275; p. 314.
Typewriting-machine. N. Horn. No. 1,343,509; June 15; v. 275; p. 488.
Typewriting-machine. A. G. F. Kurowski. No. 1,345,093; June 29; v. 275; p. 927.
Typewriting-machine. C. S. Labofish. No. 1,342,174; June 1; v. 275; p. 110.
Typewriting-machine. W. A. Lorenz. No. 1,344,304; June 22; v. 275; p. 709.
Typewriting-machine. G. A. Seib. No. 1,342,186; June 1; v. 275; p. 113.
Typewriting-machine. G. A. Seib. No. 1,342,466; June 8; v. 275; p. 220.
Typewriting-machine. A. W. Smith. No. 1,342,513; June 8; v. 275; p. 229.
Typewriting-machine. O. Woodward. No. 1,342,197; June 1; v. 275; p. 115.
Typewriting-machine. O. Woodward. No. 1,342,489; June 8; v. 275; p. 224.
Typewriting-machine. O. Woodward. No. 1,342,490; June 8; v. 275; p. 224.
Typographical composing and casting machines, Magazine of. J. E. Billington. No. 1,342,980; June 8; v. 275; p. 321.
Umbrella. J. A. Hughes and T. E. Herington. No. 1,344,132; June 22; v. 275; p. 675.
Umbrella or parasol holder. A. E. Pierce. No. 1,344,245; June 22; v. 275; p. 697.
Undergarment, Lady's combination-. A. K. Czechowicz. No. 1,343,038; June 8; v. 275; p. 333.
Underreamer. W. W. Wilson. No. 1,342,406; June 1; v. 275; p. 155.
Underreamer. E. C. and W. W. Wilson. No. 1,344,327; June 22; v. 275; p. 714.
Union-suit, Woman's. J. H. Stanley. No. 1,342,188; June 1; v. 275; p. 113.
Union-suits and drawers, Manufacturing. J. P. Weis. No. 1,342,010; June 1; v. 275; p. 78.
Universal joint. J. C. Kopf. No. 1,343,728; June 15; v. 275; p. 531.
Universal joint. A. B. Morse. No. 1,344,707; June 29; v. 275; p. 853.
Upholstering apparatus. L. B. Smith. No. 1,345,268; June 29; v. 275; p. 961.
Urea and intermediate products, Manufacture of. C. Bosch. No. 1,344,673; June 29; v. 275; p. 847.
Vacuum-tank. W. Sparks. No. 1,343,591; June 15; v. 275; p. 504.
Vacuum-tube circuits, Control means for. R. A. Heising. No. 1,343,562; June 15; v. 275; p. 499.
Valve. L. Albertson. No. 1,343,490; June 15; v. 275; p. 484.
Valve. H. J. Gebhardt. No. 1,342,955; June 8; v. 275; p. 316.
Valve. M. S. Roby. No. 1,345,248; June 29; v. 275; p. 957.
Valve. G. A. Vis. No. 1,344,364; June 22; v. 275; p. 721.
Valve. J. Volckhausen. No. 1,341,828; June 1; v. 275; p. 43.
Valve-adjuster. F. H. Sharar. No. 1,343,525; June 15; v. 275; p. 491.
Valve and deflector of ventilating apparatus. T. Neilson. No. 1,343,576; June 15; v. 275; p. 501.
Valve, Automatic drain-. T. W. Demarest. No. 1,343,550; June 15; v. 275; p. 496.
Valve, Automatic drain and pressure-relief. J. E. Armstrong. No. 1,343,382; June 15; v. 275; p. 463.
Valve, Automatic expansion-. W. S. Stair. No. 1,341,766; June 1; v. 275; p. 31.
Valve, Automatic ring-plate. J. H. H. Voss. No. 1,343,534; June 15; v. 275; p. 493.
Valve, Back-pressure and relief. F. Henneböhle. No. 1,344,300; June 22; v. 275; p. 708.
Valve, Balanced piston-. G. W. Baker and G. Williams. No. 1,343,105; June 8; v. 275; p. 346.
Valve, Brine-. H. Ackroyd. No. 1,343,072; June 8; v. 275; p. 340.
Valve-controlling device. R. J. Grigsby. No. 1,344,633; June 29; v. 275; p. 839.
Valve device. J. McGillivray. No. 1,342,900; June 8; v. 275; p. 306.
Valve, Dry-pipe. E. E. Clark. No. 1,344,380; June 22; v. 275; p. 724.
Valve, Elbow check-. H. J. and W. R. Woock. No. 1,341,870; June 1; v. 275; p. 51.
Valve for percussive tools. W. A. Smith. No. 1,343,649; June 15; v. 275; p. 516.
Valve for pneumatic tools. W. S. Whyte. No. 1,343,951; June 22; v. 275; p. 641.
Valve for refrigerating apparatus, Control-. G. L. E. Kothny. No. 1,343,975; June 22; v. 275; p. 645.
Valve, Gas-. G. D. Bradshaw. No. 1,342,620; June 8; v. 275; p. 249.
Valve, Governor-controlled throttle. W. Turnbull. No. 1,344,362; June 22; v. 275; p. 721.
Valve-grinder. D. F. Dunham. No. 1,342,375; June 1; v. 275; p. 148.
Valve-grinder. E. M. Huston. No. 1,341,984; June 1; v. 275; p. 73.
Valve-handle. W. S. Nell. No. 1,343,086; June 8; v. 275; p. 342.
Valve, Inlet or check. F. L. Henig. No. 1,342,216; June 1; v. 275; p. 119.
Valve lifter, Auto-. E. E. Harris. No. 1,343,130; June 8; v. 275; p. 351.
Valve, Magnetic. F. Moreton. No. 1,342,641; June 8; v. 275; p. 253.
Valve mechanism. F. Gruber. No. 1,342,438; June 8; v. 275; p. 214.
Valve mechanism, Float-. F. L. Sessions. No. 1,342,874; June 8; v. 275; p. 301.
Valve or cock. G. Lapenda. No. 1,342,051; June 1; v. 275; p. 86.
Valve, Pressure and vacuum relief. A. W. Cash. No. 1,342,985; June 8; v. 275; p. 322.
Valve, Pressure-regulating. W. F. Conran. No. 1,344,383; June 22; v. 275; p. 725.
Valve, Puppet-. L. W. Brenner. No. 1,342,419; June 8; v. 275; p. 211.
Valve, Relief-. L. E. MacBryde. No. 1,343,735; June 15; v. 275; p. 533.
Valve, Six-way. R. M. Downie. No. 1,344,490; June 22; v. 275; p. 746.
Valve-spring lifter. G. T. Euard. No. 1,345,153; June 29; v. 275; p. 939.
Valve-stem packing-cup. H. A. Lee. No. 1,344,347; June 22; v. 275; p. 718.
Valve-stem washer. E. L. Weil. No. 1,344,744; June 29; v. 275; p. 861.
Valve, Test-. G. Ernst. No. 1,343,043; June 8; v. 275; p. 334.
Valve-truing device. O. B. Jones and D. W. Spence. No. 1,342,632; June 8; v. 275; p. 251.
Valves, Bulb for tank-. A. T. Hopkins. No. 1,343,890; June 15; v. 275; p. 564.
Valves, Safety device for operating flush-tank. W. O. Griffiths. No. 1,343,261; June 15; v. 275; p. 440.
Valves, Safety device for relief-. J. M. Dougherty and H. C. Tabler. No. 1,342,667; June 8; v. 275; p. 258.
Vanity-case. W. G. Kendall. No. 1,342,116; June 1; v. 275; p. 99.
Vaporizer and holder. A. G. Kaufman. No. 1,342,446; June 8; v. 275; p. 216.
Vaporizing attachment. T. T. Pope. No. 1,341,760; June 1; v. 275; p. 29.
Variable-resistance device. J. Parkin, Jr. No. 1,342,594; June 8; v. 275; p. 245.
Vault-plate. C. M. Johnson. No. 1,342,913; June 8; v. 275; p. 308.

Vehicle. R. Barrett. No. 1,343,993; June 22; v. 275; p. 649.
Vehicle-body and portable extension therefor. H. Puff. No. 1,344,717; June 29; v. 275; p. 855.
Vehicle, Child's. E. Ischinger. No. 1,343,566; June 15; v. 275; p. 499.
Vehicle, Child's. G. W. Watson. No. 1,341,768; June 1; v. 275; p. 31.
Vehicle construction, Motor-driven-. G. R. Fairchilds. No. 1,343,358; June 15; v. 275; p. 458.
Vehicle-frame. W. U. Richmond. No. 1,343,682; June 15; v. 275; p. 522.
Vehicle-frame brace. M. E. Crow. No. 1,342,623; June 8; v. 275; p. 249.
Vehicle-heater. T. Bovey. No. 1,341,879; June 1; v. 275; p. 52.
Vehicle-jack. W. B. Whitton. No. 1,342,140; June 1; v. 275; p. 103.
Vehicle loading-indicator. R. S. Gans. No. 1,343,556; June 15; v. 275; p. 497.
Vehicle, Motor-. F. H. Dewey. No. 1,344,993; June 29; v. 275; p. 907.
Vehicle, Motor-. L. K. Snell. No. 1,342,831; June 8; v. 275; p. 292.
Vehicle, Motor-. J. G. Vincent. No. 1,344,279; June 22; v. 275; p. 704.
Vehicle, Self-propelled. J. O. Hamel. No. 1,342,440; June 8; v. 275; p. 215.
Vehicle, Self-propelled. H. T. Preble. No. 1,344,353; June 22; v. 275; p. 719.
Vehicle, Self-propelled. R. M. Willis. No. 1,344,108; June 22; v. 275; p. 671.
Vehicle-shackle. E. E. Chapman. No. 1,343,709; June 15; v. 275; p. 528.
Vehicle-spring. F. V. Cooke. No. 1,344,792; June 29; v. 275; p. 871.
Vehicle-spring. A. Hallner. No. 1,344,204; June 22; v. 275; p. 689.
Vehicle-spring. J. B. Kincér. No. 1,341,805; June 1; v. 275; p. 38.
Vehicle-spring, Self-oiling. E. J. Jackson. No. 1,343,453; June 15; v. 275; p. 476.
Vehicle steering device. C. W. Mott. No. 1,343,225; June 15; v. 275; p. 433.
Vehicle-top. F. H. Hall. No. 1,345,174; June 29; v. 275; p. 943.
Vehicle-towing device. E. Yoder. No. 1,342,079; June 1; v. 275; p. 91.
Vehicle, Traction-. O. D. Richardson. No. 1,342,761; June 8; v. 275; p. 278.
Vehicle-wheel. R. S. Bryant. No. 1,342,622; June 8; v. 275; p. 249.
Vehicle-wheel. A. Jakovleff. No. 1,343,567; June 15; v. 275; p. 500.
Vehicle-wheel. C. E. P. Julien. No. 1,344,512; June 22; v. 275; p. 751.
Vehicle-wheel. H. H. Taylor. No. 1,345,281; June 29; v. 275; p. 964.
Vehicles, Adjustable shaft-hanger for motor-. H. R. Williams. No. 1,342,143; June 1; v. 275; p. 104.
Vehicles, Apparatuses and process for cooling. C. W. McCoy. No. 1,342,123; June 1; v. 275; p. 100.
Vehicles, Attachment for motor-. D. L. Stroud. No. 1,345,278; June 29; v. 275; p. 963.
Vehicles, Clutch-lever stop for motor-. S. G. Warner. No. 1,344,602; June 22; v. 275; p. 769.
Vehicles, Combined bonnet and car-body for automobile-. C. M. Motte. No. 1,343,519; June 15; v. 275; p. 490.
Vehicles, Construction of bodies of motor and other. F. M. Charles. No. 1,342,664; June 8; v. 275; p. 257.
Vehicles, Grease-retainer for axles of motor-. J. H. Williams. No. 1,343,603; June 15; v. 275; p. 506.
Vehicles, Hoisting apparatus for. W. Sanderson. No. 1,343,283; June 15; v. 275; p. 444.
Vehicles, Locking device for motor-. M. E. Bassett. No. 1,343,609; June 15; v. 275; p. 508.
Vehicles, Means for steering motor-. F. L. Rapson. No. 1,343,846; June 15; v. 275; p. 555.
Vehicles, Radiator-mounting for motor-. G. J. Thomas. No. 1,342,191; June 1; v. 275; p. 114.
Vehicles, Safety device for road-. W. Lavallee. No. 1,344,238; June 22; v. 275; p. 696.
Vehicles, Short-circuiting lock for motor-. H. A. Zehringer. No. 1,344,369; June 22; v. 275; p. 722.
Vehicles, Skid-chain fasteners for motor-. L. D. Johnson and E. J. Biedenkopf. No. 1,342,631; June 8; v. 275; p. 251.
Vehicles, Steering-gear for motor-. W. H. Appleman. No. 1,345,308; June 28; v. 275; p. 969.
Vehicles, Towing connection for. R. F. McNamara. No. 1,342,507; June 8; v. 275; p. 227.
Vehicles, Trailer for motor-driven. T. Sandstrom. No. 1,343,790; June 15; v. 275; p. 544.
Vehicles, Washbasin for motor-propelled. W. I. Clifford. No. 1,342,843; June 8; v. 275; p. 294.
Velocipede. J. Scanlan. No. 1,342,720; June 8; v. 275; p. 269.
Vending-booth, Revolving. G. Seveczov. No. 1,343,794; June 15; v. 275; p. 545.
Vending-machine. J. H. Mann, Jr. No. 1,341,921; June 1; v. 275; p. 60.
Vending-machine. W. Meyer. No. 1,344,142; June 22; v. 275; p. 677.
Vending-machine. C. B. Wright. No. 1,344,160; June 22; v. 275; p. 681.
Vending machine, Newspaper-. W. H. Miles. No. 1,342,858; June 8; v. 275; p. 297.
Ventilating window-section and screen. R. Miller and W. E. Turney. No. 1,344,054; June 22; v. 275; p. 661.
Ventilator: *See*—
Air-cleaning ventilator. Closet-ventilator.
Automobile-ventilator.
Ventilator. N. Renner. No. 1,342,066; June 1; v. 275; p. 89.
Ventilators or heaters, Air-regulator for. P. Sherwen. No. 1,343,162; June 8; v. 275; p. 357.
Vessel and building same, Reinforced-concrete. A. C. Janni. No. 1,342,408; June 1; v. 275; p. 155.
Vessels, Accommodation-ladder for marine. E. J. Sims. No. 1,343,094; June 8; v. 275; p. 344.
Vessels, Bottom for liquid-heating. F. C. Avery and R. E. Thompson. No. 1,342,888; June 8; v. 275; p. 303.
Vessels, Hydroplane or horizontal rudder of submarine. W. Reavell. No. 1,343,643; June 15; v. 275; p. 514.
Violin-mute. H. H. Vanderhoof. No. 1,344,968; June 29; v. 275; p. 903.
Violin, Piano-. C. R. Fleming. No. 1,344,497; June 22; v. 275; p. 748.
Vise. C. G. Cashman. No. 1,344,862; June 29; v. 275; p. 883.
Volatile and fermentable matter from liquids, Apparatus for recovering. A. Schaefer. No. 1,342,721; June 8; v. 275; p. 269.
Volt-ampere meter. D. J. Angus. No. 1,342,081; June 1; v. 275; p. 92.
Volt-ampere meter. D. J. Angus. No. 1,342,082; June 1; v. 275; p. 92.
Voltage protective device, Excess-. Q. A. Brackett. No. 1,345,066; June 29; v. 275; p. 922.
Voting-machine registers, Operating device for. C. H. Veeder. No. 1,342,476; June 8; v. 275; p. 222.
Vulcanizer. S. Kenchen. No. 1,342,916; June 8; v. 275; p. 309.
Wagon-brake. E. B. Harris. No. 1,342,381; June 1; v. 275; p. 149.
Wagon end-gate. E. E. Anderson. No. 1,342,705; June 8; v. 275; p. 266.
Wagon-frame. L. Coppock. No. 1,342,254; June 1; v. 275; p. 126.
Wagon-loader. G. Halss. No. 1,345,172; June 29; v. 275; p. 943.
Wagon, Manually-propelled. E. Thorn. No. 1,341,725; June 1; v. 275; p. 22.
Wagon-rocker. A. B. Foans. No. 1,345,322; June 29; v. 275; p. 972.
Waistband. B. Clark. No. 1,343,035; June 8; v. 275; p. 332.
Wall-cleaning machine. C. S. Woods. No. 1,342,488; June 8; v. 275; p. 224.
Wall construction. G. W. Denison. No. 1,343,312; June 15; v. 275; p. 449.
Wall construction. J. A. Lannert. No. 1,344,803; June 29; v. 275; p. 873.
Wall-rack, Folding. W. W. Lincoln. No. 1,341,654; June 1; v. 275; p. 8.
Wardrobe, Portable. I. N. Stewart. No. 1,342,269; June 1; v. 275; p. 129.
Warning-signal. E. Rubes. No. 1,345,251; June 29; v. 275; p. 958.
Warp-clamp. J. B. Sinderson. No. 1,342,876; June 8; v. 275; p. 301.
Warp-threads, Mechanism for operating upon. M. F. Field and C. D. Lanning. No. 1,344,795; June 29; v. 275; p. 871.
Warped panel and forming same. J. Herzog. No. 1,343,320; June 15; v. 275; p. 451.
Warps, Machine for operating upon. H. D. Colman, B. A. Peterson, and E. D. Parker. No. 1,342,896; June 8; v. 275; p. 305.
Washer: *See*—
Can-washer. Lock-washer.
Dish-washer. Valve-stem washer.
Expansible washer.
Washer. J. G. Wright. No. 1,344,194; June 22; v. 275; p. 687.
Washing apparatus, Dish-. J. T. Belknap. No. 1,345,059; June 29; v. 275; p. 920.
Washing-machine. D. A. Dwyer. No. 1,342,624; June 8; v. 275; p. 250.
Washing-machine. S. Gray. No. 1,345,003; June 29; v. 275; p. 909.
Washing-machine. E. F. Poland. No. 1,344,089; June 22; v. 275; p. 667.
Washing machine, Clothes-. W. F. Blake. No. 1,345,312; June 29; v. 275; p. 970.
Washing-machine, Hydraulic. B. Baráth. No. 1,343,107; June 8; v. 275; p. 346.
Washtray. L. Helgo. No. 1,342,046; June 1; v. 275; p. 85.
Water-bag. D. A. Climes. No. 1,342,252; June 1; v. 275; p. 126.
Water circulation, Temperature-indicator for engine-. G. P. Pitkin. No. 1,343,088; June 8; v. 275; p. 343.
Water-closet bowl. H. D. Farris. No. 1,342,016; June 1; v. 275; p. 79.
Water-closet tanks, Ball-cock for. E. J. Terry. No. 1,343,421; June 15; v. 275; p. 470.
Water-collecting system. D. P. Howell. No. 1,342,679; June 8; v. 275; p. 261.

Water-distributer. A. H. Barthez. No. 1,342,734; June 8; v. 275; p. 272.
Water-heating device. E. A. Sreiber. No. 1,343,937; June 22; v. 275; p. 638.
Water-mill. S. N. Dalmant. No. 1,342,100; June 1; v. 275; p. 96.
Water-motor. K. M. Anderson. No. 1,342,613; June 8; v. 275; p. 248.
Water-tube and a pressure-basin mounting the water-tube, Connection between a. T. Heyerdahl. No. 1,342,286; June 1; v. 275; p. 132.
Water-tube boiler. H. Horiuchi. No. 1,343,824; June 15; v. 275; p. 551.
Watering device, Cattle-. H. C. Rassmann. No. 1,344,189; June 22; v. 275; p. 686.
Wax from petroleum-distillates, Apparatus for expressing. W. C. and F. E. Wells. No. 1,344,745; June 29; v. 275; p. 861.
Wear take-up for slides. P. W. Murphy. No. 1,344,592; June 22; v. 275; p. 767.
Weather-strip. O. S. Branham. No. 1,343,304; June 15; v. 275; p. 447.
Weather strip. E. Clayton. No. 1,341,632; June 1; v. 275; p. 4.
Weather-strip. E. J. Craig. No. 1,343,904; June 22; v. 275; p. 631.
Weather-strip. J. B. A. La Jeunesse. No. 1,342,050; June 1; v. 275; p. 86.
Weather-strip. O. Kubatzky. No. 1,343,324; June 15; v. 275; p. 451.
Web stretching and guiding device. J. T. Bolton. No. 1,343,385; June 15; v. 275; p. 464.
Weed-cutter. S. Johnson. No. 1,341,804; June 1; v. 275; p. 38.
Weeding device. W. Zetzman. No. 1,343,805; June 15; v. 275; p. 547.
Weighing-machine. F. A. Emery and A. A. Adams. No. 1,344,295; June 22; v. 275; p. 708.
Weighing-machine. T. M. Foote. No. 1,344,339; June 22; v. 275; p. 716.
Weighing-machine. J. H. Reinhardt. No. 1,343,476; June 15; v. 275; p. 481.
Weight, Sash-. C. M. Stewart. No. 1,345,274; June 29; v. 275; p. 962.
Weight, Sash-. A. B. Cressler, L. B. Nees, and H. B. Baumbach. No. 1,344,176; June 22; v. 275; p. 684.
Welding apparatus. W. A. Pratt. No. 1,343,277; June 15; v. 275; p. 443.
Welding apparatus, Electric. F. V. D. Longacre. No. 1,344,415; June 22; v. 275; p. 731.
Welding machine, Autogenous-flame-. H. Cave, and J. L. Anderson. No. 1,341,840; June 1; v. 275; p. 45.
Welding machine, Electric-arc-. J. L. Adams, Jr., and H. H. Welch. No. 1,343,607; June 15; v. 275; p. 507.
Welding machine, Flame-. W. C. Bucknam. No. 1,341,839; June 1; v. 275; p. 45.
Welding machine, Magnetic flame-. W. J. Buckley. No. 1,343,346; June 15; v. 275; p. 456.
Welding, Metal. E. C. Lipps. No. 1,342,717; June 8; v. 275; p. 268.
Welding, Process and product of electric. E. Fulda. No. 1,344,125; June 22; v. 275; p. 674.
Welding, Resistance-. J. H. Gravell. No. 1,342,957; June 8; v. 275; p. 316.
Welding system, Alternating-current. O. H. Eschholz and H. Tahoe. No. 1,343,205; June 15; v. 275; p. 430.
Welding system, Arc-. O. H. Eschholz. No. 1,343,199; June 15; v. 275; p. 429.
Welding system, Arc-. O. H. Eschholz. No. 1,343,200; June 15; v. 275; p. 429.
Welding system, Arc-. O. H. Eschholz. No. 1,343,201; June 15; v. 275; p. 429.
Welding system, Electric-arc-. A. M. Candy. No. 1,343,194; June 15; v. 275; p. 428.
Welding system, Electric-arc-. O. H. Eschholz and H. Fahnoe. No. 1,343,202; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,203; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,204; June 15; v. 275; p. 429.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,206; June 15; v. 275; p. 430.
Welding system, Electric-arc-. O. H. Eschholz. No. 1,343,207; June 15; v. 275; p. 430.
Welding system, Electric-arc-. H. Fahnoe. No. 1,343,208; June 15; v. 275; p. 430.
Well appliance, Oil-. L. J. Mildren. No. 1,344,922; June 29; v. 275; p. 895.
Well cleaner. S. F. Bashara. No. 1,342,618; June 8; v. 275; p. 248.
Well derricks, Spool for oil-. N. L. Sybert. No. 1,342,653; June 8; v. 275; p. 255.
Well meter and sampler, Oil-. H. W. Gender. No. 1,341,898; June 1; v. 275; p. 56.
Well-plugging apparatus. A. T. Ruthven. No. 1,342,927; June 8; v. 275; p. 311.
Well-screen. W. H. Cater. No. 1,342,986; June 8; v. 275; p. 322.
Well-screen. W. E. Minton. No. 1,341,755; June 1; v. 275; p. 29.
Well-sinking apparatus. M. J. Chapman. No. 1,343,902; June 22; v. 275; p. 631.
Wells, Method and apparatus for shutting water out of oil-. D. G. Vedder. No. 1,342,780; June 8; v. 275; p. 282.
Wells, Screening device for oil-. S. H. Huston. No. 1,342,813; June 8; v. 275; p. 289.
Wells, Shutting a deleterious fluid out of value-producing. D. G. Vedder. No. 1,342,781; June 8; v. 275; p. 282.
Wet-mixer. R. V. Mattison, Jr. No. 1,344,306; June 22; v. 275; p. 710.
Wheel: *See*—
Car-wheel. Shock-absorbing wheel.
Cushion-wheel. Spring-wheel.
Gear-wheel. Tractor-wheel.
Pneumatic wheel. Vehicle-wheel.
Resilient wheel.
Wheel. L. H. Perlman. No. 1,342,225; June 1; v. 275; p. 121.
Wheel. J. C. Welch. No. 1,342,784; June 8; v. 275; p. 283.
Wheel-caster. H. Austin. No. 1,343,758; June 15; v. 275; p. 538.
Wheel construction. R. D. Streby. No. 1,344,600; June 22; v. 275; p. 768.
Wheel-cushion and means for mounting same. A. L. Runyan. No. 1,343,684; June 15; v. 275; p. 523.
Wheel knuckle-joints, Reinforcement for. W. E. Candenburgh and G. S. Grems. No. 1,344,192; June 22; v. 275; p. 687.
Wheel-rim, Sectional. P. G. Beremand. No. 1,341,877; June 1; v. 275; p. 52.
Wheel-rims, Tool for contracting and expanding demountable. G. W. Armagost. No. 1,343,992; June 22; v. 275; p. 648.
Wheels and means of fixing same, Detachable tread for. E. J. Leeding and A. A. Remington. No. 1,343,784; June 15; v. 275; p. 543.
Wheels, Antiskid attachment for. J. H. Hogston. No. 1,344,273; June 22; v. 275; p. 703.
Wheels from their axles, Tool for removing. C. W. Holland. No. 1,345,186; June 29; v. 275; p. 945.
Wheels, Non-skidding device for. J. Urbanek. No. 1,345,291; June 29; v. 275; p. 966.
Wheels of automobiles from their axles, Removing the rear. B. H. E. Isworth. No. 1,342,907; June 8; v. 275; p. 307.
Whistle. J. C. Ward. No. 1,342,315; June 1; v. 275; p. 137.
Wick-doubler. H. Sweet. No. 1,345,280; June 29; v. 275; p. 963.
Winches, Detachable device for operating awning-. A. B. Rippe. No. 1,345,027; June 29; v. 275; p. 914.
Wind-indicator. C. R. Post. No. 1,344,315; June 22; v. 275; p. 711.
Wind-screen for use on conveyances and like purposes. G. H. Ransom. No. 1,342,183; June 1; v. 275; p. 112.
Wind-shields, End extension to automobile. W. J. Chase. No. 1,342,794; June 8; v. 275; p. 285.
Winding-machine. J. C. Anderson. No. 1,344,432; June 22; v. 275; p. 735.
Winding machine, Bobbin-. J. Dalby. No. 1,343,768; June 15; v. 275; p. 539.
Winding machine, Circular weft-. A. Schaufelberger. No. 1,343,481; June 15; v. 275; p. 483.
Winding machine, Yarn-. W. Parker. No. 1,343,333; June 15; v. 275; p. 453.
Winding mechanism. C. D. Lanning. No. 1,344,449; June 22; v. 275; p. 738.
Windmill. J. C. Hansen-Ellehammer. No. 1,342,206; June 1; v. 275; p. 117.
Window. C. Albonesi. No. 1,342,411; June 8; v. 275; p. 209.
Window. J. G. Lopata. No. 1,345,325; June 29; v. 275; p. 972.
Window. A. Motteau. No. 1,343,520; June 15; v. 275; p. 490.
Window. J. W. White. No. 1,344,529; June 22; v. 275; p. 754.
Window-frame with sash-cord holder. T. Christoffel. No. 1,344,532; June 22; v. 275; p. 755.
Window-lifting apparatus. E. G. Simpson, C. J. Schmidt, and F. P. Carstens. No. 1,343,410; June 15; v. 275; p. 468.
Window-operating device. C. V. Jones. No. 1,345,010; June 29; v. 275; p. 911.
Window-polisher. M. L. Henry. No. 1,344,890; June 29; v. 275; p. 889.
Window-screen. J. Donnelly. No. 1,344,758; June 29; v. 275; p. 864.
Window-screen. D. O'Neill. No. 1,342,298; June 1; v. 275; p. 134.
Window-shade. J. Schenk. No. 1,343,284; June 15; v. 275; p. 444.
Window, Ventilating-. C. Poehner. No. 1,344,561; June 22; v. 275; p. 760.
Window-ventilator attachment. G. E. Merrill. No. 1,342,222; June 1; v. 275; p. 120.
Window wicket or closure. J. Hecht. No. 1,342,673; June 8; v. 275; p. 259.
Windows, Package for disassembled vehicle-curtain. A. E. Johnson. No. 1,344,135; June 22; v. 275; p. 676.
Windows, Safety device for use in cleaning. F. W. Bielitz. No. 1,343,546; June 15; v. 275; p. 495.

Windshield. C. Wells. No. 1,344,010; June 22; v. 275; p. 652.
Windshield, Auxiliary. G. R. Bentel. No. 1,345,061; June 29; v. 275; p. 921.
Windshield, Auxiliary. G. Glaudel. No. 1,343,318; June 15; v. 275; p. 450.
Windshield, Auxiliary. E. B. Williams and B. E. Rieg. No. 1,345,053; June 29; v. 275; p. 919.
Windshield-cleaner. A. F. Gillet. No. 1,345,167; June 29; v. 275; p. 942.
Windshield-cleaner. C. A. Shea. No. 1,345,330; June 29; v. 275; p. 973.
Windshield-wiper. V. H. Christen. No. 1,343,310; June 15; v. 275; p. 449.
Wire-drawing machine. D. C. Sullivan, G. L. Hawkins, and W. J. MacMillan. No. 1,344,568; June 22; v. 275; p. 761.
Wire-drawing machinery. F. A. Keyes. No. 1,341,986; June 1; v. 275; p. 73.
Wire, Electrical-resistance. A. H. Johnson. No. 1,344,406; June 22; v. 275; p. 729.
Wire-fabric machine. P. A. and W. V. Reid and J. Kelley. No. 1,344,595; June 22; v. 275; p. 767.
Wire-fence clamp. J. B. Woodson. No. 1,341,698; June 1; v. 275; p. 17.
Wire-line-drilling clamp. G. F. Bell. No. 1,344,476; June 22; v. 275; p. 743.
Wire-puller, Pneumatic-core. B. S. Aikman. No. 1,343,701; June 15; v. 275; p. 526.
Wire, Reel for holding barbed or other. T. L. Thompson. No. 1,343,067; June 8; v. 275; p. 338.
Wire-rope carriage. D. Cook. No. 1,343,434; June 15; v. 275; p. 473.
Wire-stretcher. J. H. Best. No. 1,345,310; June 29; v. 275; p. 969.
Wire-stretcher. G. R. Farris. No. 1,342,625; June 8; v. 275; p. 250.
Wire-stretcher. T. E. Singleton. No. 1,345,265; June 29; v. 275; p. 960.
Wire-twisting device. A. A. Gamble. No. 1,341,895; June 1; v. 275; p. 55.
Wire with fibrous material, Machine for covering. J. Booth. No. 1,343,076; June 8; v. 275; p. 340.
Wires and tubes of two metals, Manufacture of. E. Martin. No. 1,341,812; June 1; v. 275; p. 39.
Wood-handling device. H. M. Strawn. No. 1,343,288; June 15; v. 275; p. 445.
Wood, Preserving. M. Ruping. No. 1,345,253; June 29; v. 275; p. 258.
Wood sanding or polishing machine. J. M. Nash. No. 1,343,981; June 22; v. 275; p. 646.
Wood-turning machine. J. Herzog. No. 1,343,319; June 15; v. 275; p. 450.
Woodworking-machines, Gage attachment for. H. L. Hurff. No. 1,342,218; June 1; v. 275; p. 119.
Work-holder, Universal. C. Jesnig. No. 1,341,646; June 1; v. 275; p. 6.
Work-holding stand. R. C. Lee. No. 1,341,809; June 1; v. 275; p. 39.
Work-support. L. A. Casgrain. No. 1,344,290; June 22; v. 275; p. 706.
Work-supporting table. G. H. Faichney. No. 1,343,553; June 15; v. 275; p. 497.
Work threading or cutting units, Power means for. W. W. Vosper. No. 1,344,280; June 22; v. 275; p. 704.
Worm-press. S. V. Burrows. No. 1,344,790; June 29; v. 275; p. 870.
Worm-wheel cutter. A. E. Parnall. No. 1,343,982; June 22; v. 275; p. 646.
Woven carrier. H. C. Brothers. No. 1,344,377; June 22; v. 275; p. 724.
Wrapping material. J. J. White. No. 1,341,955; June 1; v. 275; p. 67.
Wrench: *See*—
Adjustable wrench. Screw-wrench.
Combination-wrench. Socket-wrench.
Pipe-wrench. Turnbuckle-wrench.
Power-wrench.
Wrench. C. C. Barnes. No. 1,344,573; June 22; v. 275; p. 763.
Wrench. L. Doonar. No. 1,344,265; June 22; v. 275; p. 701.
Wrench. J. Gell. No. 1,341,712; June 1; v. 275; p. 19.
Wrench. W. A. Kirkpatrick. No. 1,344,234; June 22; v. 275; p. 695.
Wrench. J. H. Lane. No. 1,344,542; June 22; v. 275; p. 757.
Wrench. I. W. Litchfield. No. 1,345,202; June 29; v. 275; p. 948.
Wrench. A. McDowell. No. 1,342,856; June 8; v. 275; p. 297.
Wrench. F. M. Murray. No. 1,342,643; June 8; v. 275; p. 253.
Wringer. W. H. Voss. No. 1,344,835; June 29; v. 275; p. 879.
X-ray system. H. F. Waite. No. 1,343,599; June 15; v. 275; p. 506.
Yarn device and making same, Unitary. R. E. Taylor. No. 1,343,238; June 15; v. 275; p. 436.
Yarn tension. J. H. Boyd. No. 1,343,388; June 15; v. 275; p. 464.
Yarn-tension device. L. T. Houghton. No. 1,344,400; June 22; v. 275; p. 728.
Yoke, Coupling. H. L. Spence. No. 1,342,697; June 8; v. 275; p. 265.
Yokes to cart-poles, Device for connecting ox-. R. Ramos and A. de Cardenas. No. 1,344,354; June 22; v. 275; p. 719.
Zinc, copper, and cadmium, Treating residues containing. J. O. Elton and R. B. Caples. No. 1,343,619; June 15; v. 275; p. 510.

ALPHABETICAL LIST OF DESIGNS.

Aeroplane. G. H. Curtiss. No. 55,504; June 22; v. 275; p. 774.
Antiseptic tablet. H. Wipf. No. 55,542; June 22; v. 275; p. 781.
Automobile-body. R. J. Gruenberg. No. 55,461; June 15; v. 275; p. 568.
Automobile-bumper. W. G. Panconst and W. J. Grotenhuis. No. 55,484; June 15; v. 275; p. 572.
Automobile-footboard. J. M. White. No. 55,494; June 15; v. 275; p. 574.
Automobile-frame. H. E. Cross. No. 55,454; June 15; v. 275; p. 567.
Badge, emblem, or similar article. J. A. Braden. Nos. 55,548–51; June 29; v. 275; p. 977.
Bag-frame member. W. Turton. No. 55,402; June 1; v. 275; p. 166.
Bait, Artificial. H. G. Hamilton. No. 55,462; June 15; v. 275; p. 568.
Bedstead. B. Lipshitz. No. 55,426; June 8; v. 275; p. 367.
Belt and trousers clamp. T. Delikat. No. 55,368; June 1; v. 275; p. 160.
Blouse, Woman's. A. H. Flanders. Nos. 55,372–3; June 1; v. 275; p. 161.
Bottle-cap. C. Hammer. No. 55,380; June 1; v. 275; p. 162.
Bottle-stopper. I. L. French. No. 55,374; June 1; v. 275; p. 161.
Bracelet, Clasp for a ribbon-. R. King. Nos. 55,423–4; June 8; v. 275; p. 367.
Bubble-blower. C. Bogert. No. 55,409; June 8; v. 275; p. 365.
Bundle-tier-machine frame. A. H. Saxton and J. J. Bachmayer. No. 55,533; June 22; v. 275; p. 779.
Button, Emblem-. G. H. Rennick. No. 55,398; June 1; v. 275; p. 165.
Cabinet for rubber bands. F. Pfous. No. 55,396; June 1; v. 275; p. 165.
Cabinet, Phonograph-. W. C. Beckwith. No. 55,405; June 8; v. 275; p. 364.
Cabinet, Phonograph-. I. Bensen. No. 55,362; June 1; v. 275; p. 159.
Cabinet, Phonograph-. J. S. Blankinship. No. 55,363; June 1; v. 275; p. 159.
Cabinet, Phonograph-. M. Davis. No. 55,415; June 8; v. 275; p. 366.
Cabinet, Phonograph-. H. Orsenigo. No. 55,527; June 22; v. 275; p. 778.
Cabinet, Talking-machine. J. Belpedio. No. 55,448; June 15; v. 275; p. 566.
Cabinet, Vending-. D. Sheerin. No. 55,534; June 22; v. 275; p. 780.
Can, Oil-. J. D. Karle. No. 55,472; June 15; v. 275; p. 570.
Can-opener. G. A. Carlson. No. 55,450; June 15; v. 275; p. 566.
Candelabrum for devotional purposes. W. J. Lorenz. Nos. 55,476–8; June 15; v. 275; pp. 570–1.
Candy or chewing-gum tablet. J. H. Smith and C. D. Blackmon. No. 55,536; June 22; v. 275; p. 780.
Carbureter body or casing. C. E. Johnson. No. 55,469; June 15; v. 275; p. 569.
Card, Playing-. M. E. Harris. No. 55,466; June 15; v. 275; p. 569.
Casket container, Burial-. C. Bilott. No. 55,407; June 8; v. 275; p. 364.
Caster, Cruet-. W. L. White. Nos. 55,495–6; June 15; v. 275; p. 574.
Chair. C. Rieder. No. 55,399; June 1; v. 275; p. 165.
Charm, pin, flag, emblem, banner, pennant, pillow top, or article of similar nature. T. C. Gleason. No. 55,560; June 29; v. 275; p. 978.
Checker-board. A. Day. No. 55,455; June 15; v. 275; p. 567.
Cigar-cutter. W. A. Franck. No. 55,509; June 22; v. 275; p. 775.
Coffee or tea service, Crystal. H. C. Biette. No. 55,501; June 22; v. 275; p. 773.
Collar-holder. J. A. Mariner. No. 55,568; June 29; v. 275; p. 980.

Collar-holder. S. Sampson. No. 55,488; June 15; v. 275; p. 572.
Collar-stud. H. C. Freed. No. 55,458; June 15; v. 275; p. 565.
Condiment-holder. M. A. Becolas. No. 55,360; June 1; v. 275; p. 158.
Coveralls, Suit of. P. and M. E. Pfefferle. No. 55,573; June 29; v. 275; p. 980.
Cylinder-cock casing. I. A. Selders. No. 55,436; June 8; v. 275; p. 369.
Desk. G. P. Wigginton. No. 55,497; June 15; v. 275; p. 574.
Desk, Combination school-. J. C. Moore. No. 55,570; June 29; v. 275; p. 980.
Dish, Transparent cooking-. W. Churchill. No. 55,366; June 1; v. 275; p. 160.
Display-counter. W. T. Sherer. No. 55,490; June 15; v. 275; p. 573.
Doll. C. C. Cooley. No. 55,503; June 22; v. 275; p. 774.
Doll. G. F. Gillespie. No. 55,511; June 22; v. 275; p. 775.
Doll. B. Goldenberg. No. 55,561; June 29; v. 275; p. 979.
Doll. A. E. Malone. No. 55,428; June 8; v. 275; p. 368.
Doll. M. M. Meldram. No. 55,569; June 29; v. 275; p. 980.
Doll or statuette. S. Haskell. No. 55,562; June 29; v. 275; p. 979.
Doll, statuette, sculpture, or article of similar nature. H. Weinberger. No. 55,579; June 29; v. 275; p. 982.
Drawing instrument. E. L. Snyder. No. 55,538; June 22; v. 275; p. 780.
Drill-press frame. P. H. Leckinger. No. 55,387; June 1; v. 275; p. 163.
Electric-transformer case. S. M. Harvey and S. E. Lorenz. No. 55,422; June 8; v. 275; p. 367.
Emblem, badge, stickpin, or similar article. H. G. Essayan. No. 55,554; June 29; v. 275; p. 978.
Eyeglasses, Pair of. L. A. Heilig. No. 55,468; June 15; v. 275; p. 569.
Fabric, Textile. J. Ebel. No. 55,370; June 1; v. 275; p. 160.
Fabric, Textile. C. Katz. No. 55,517a June 22; v. 275; p. 776.
Fabric, Textile. E. Krupicka. No. 55,519; June 22; v. 275; p. 777.
Fabric, Textile. L. F. Orcutt. No. 55,526; June 22; v. 275; p. 778.
Fabric, Textile. R. L. Reinhart. Nos. 55,530–1; June 22; v. 275; p. 779.
Fabric, Textile. W. G. Reith. No. 55,532; June 22; v. 275; p. 779.
Fan. C. M. Levett. No. 55,389; June 1; v. 275; p. 164.
Flag, Superservice-. W. J. Smith. No. 55,537; June 22; v. 275; p. 780.
Floor-covering, Sheet. A. C. Heyman. No. 55,514; June 22; v. 275; p. 776.
Gage and regulator-casing, Combined pressure-. G. A. Baudet. No. 55,500; June 22; v. 275; p. 773.
Game. C. R. Teats. No. 55,401; June 1; v. 275; p. 166.
Game-board. F. R. Addis. No. 55,544; June 29; v. 275; p. 976.
Game-board. E. S. Aitken. No. 55,404; June 8; v. 275; p. 364.
Game-board. J. Ecker and E. Goldberg. No. 55,418; June 8; v. 275; p. 366.
Game-board. H. McIntyre and W. J. Wakefield. No. 55,482; June 15; v. 275; p. 571.
Game-board. G. A. Wraith. No. 55,581; June 29; v. 275; p. 982.
Gas-heater. L. Lebau. No. 55,388; June 1; v. 275; p. 164.
Gear base, Reduction-. M. A. Harris. No. 55,467; June 15; v. 275; p. 569.
Glass goblet. J. O. Baida. Nos. 55,355–9; June 1; v. 275; pp. 157–8.
Handbag. E. Carraine. No. 55,451; June 15; v. 275; p. 566.
Hatpin, scarfpin, cuff-link, tie-clip, ring, fob, pendant for neck-chains, &c. F. Kaupmann, Jr. No. 55,566; June 29; v. 275; p. 979.
Headlight-lens. G. Johnson. No. 55,470; June 15; v. 275; p. 569.
Heel, Shoe-. W. Melville. No. 55,393; June 1; v. 275; p. 164.
Hook. K. Okamuro. No. 55,483; June 15; v. 275; p. 572.
Humidor. D. M. Wygold. No. 55,446; June 8; v. 275; p. 371.
Kettle, Berlin. W. Luttringhaus. No. 55,480; June 15; v. 275; p. 571.
Kettle, Preserving-. W. Luttringhaus. No. 55,479; June 15; v. 275; p. 571.
Knife-rest. J. R. Huthmaker and W. R. Legs. No. 55,516; June 22; v. 275; p. 776.
Lace. E. A. Davis. No. 55,505; June 22; v. 275; p. 774.
Lace. T. O. Kilmalehto. No. 55,518; June 22; v. 275. p. 777.
Lace. F. Meyer. No. 55,502; June 22; v. 275; p. 777.
Lace. M. Seidel. Nos. 55,575–6; June 29; v. 275; p. 981.
Lamp, Battery hand-. A. P. Paine. No. 55,571; June 29; v. 275; p. 980.
Lamp, Electric. A. J. D. Ohm. Nos. 55,430–2; June 8; v. 275; p. 368.
Lacing-tip. E. Fuller. No. 55,375; June 1; v. 275; p. 161.
Light-fixtures, Head-ring for electric-. H. Shlamowitz. No. 55,400; June 1; v. 275; p. 166.
Lighting-fixture, Sconce for a. G. J. Vester. No. 55,403; June 1; v. 275; p. 166.
Lighting-fixture wall-plate. G. Westphal. No. 55,493; June 15; v. 275; p. 573.
Lighting-fixtures shade. W. F. Handel. No. 55,464; June 15; v. 275; p. 568.
Meat-tendering implement. W. Maechler. No. 55,481; June 15; v. 275; p. 571.
Microscope-support. A. S. Alexander. No. 55,545; June 29; v. 275; p. 976.
Nail-buffer. N. E. Berry. No. 55,406; June 8; v. 275; p. 364.
Necktie-holder. J. L. Dorward. No. 55,553; June 29; v. 275; p. 978.
Nutcracker. A. W. and J. J. Gelgand. No. 55,460; June 15; v. 275; p. 568.
Paper, Decorative. G. E. Shropshire. No. 55,535; June 22; v. 275; p. 780.
Paper-holder. J. E. Bolling. No. 55,547; June 29; v. 275; p. 977.
Paper-weight. W. C. Gamble. No. 55,510; June 22; v. 275; p. 775.
Pencil-holder. A. B. Jones. No. 55,565; June 29; v. 275; p. 979.
Phonograph-case. L. S. Kurtzmann. No. 55,386; June 1; v. 275; p. 163.
Phonograph tone-chamber. I. Benson. No. 55,361; June 1; v. 275; p. 158.
Picture machines, Housing for motion-. J. Granz. No. 55,377; June 1; v. 275; p. 161.
Pin. J. B. Brady. No. 55,410; June 8; v. 275; p. 365.
Pin, badge, flag, or similar article. C. A. Howard. No. 55,564; June 29; v. 275; p. 979.
Pin, Hook-. W. A. Houston. No. 55,515; June 22; v. 275; p. 776.
Pincer. H. Rozenske. No. 55,487; June 15; v. 275; p. 572.
Pipe, Smoking-. E. Strom. No. 55,443; June 8; v. 275; p. 371.
Pouring device. J. E. O'Brien. No. 55,395; June 1; v. 275; p. 165.
Powder-cloth. A. Marcus. No. 55,391; June 1; v. 275; p. 164.
Powder-puff. W. H. Koon. No. 55,474; June 15; v. 275; p. 570.
Powder-puff. A. Marcus. No. 55,392; June 1; v. 275; p. 164.
Precious, semiprecious, or synthetic stone, or an imitation thereof. S. Heller. Nos. 55,512–13; June 22; v. 275; p. 776.
Pulley-block. J. H. Flynn, Jr. No. 55,508; June 22; v. 275; p. 775.
Radiant for gas-heaters. W. A. Wilson. No. 55,541; June 22; v. 275; p. 781.
Radiator, Automobile-. W. A. King. No. 55,473; June 15; v. 275; p. 570.
Radiator-cap. R. D. Cook. No. 55,367; June 1; v. 275; p. 160.
Radiator-cap and temperature-indicating instrument, Combined motor-vehicle. H. H. Boyce. No. 55,502; June 22; v. 275; p. 773.
Radiator core, Automobile-. L. G. Hanmer. No. 55,465; June 15; v. 275; p. 569.
Radiator for automobile-vehicles. M. H. L. Sizaire. No. 55,491; June 15; v. 275; p. 573.
Radiator front, Automobile-. J. F. Raleigh. No. 55,435; June 8; v. 275; p. 369.
Rail-clamp. J. Kaczmarczyk. No. 55,383; June 1; v. 275; p. 162.
Reflector. H. G. Fitz Gerald. No. 55,457; June 15; v. 275; p. 565.
Ribbon, Lapel-. A. Tilt. No. 55,577; June 29; v. 275; p. 981.
Ring. H. G. Essayan. Nos. 55,555–9; June 29; v. 275; p. 978.
Rocker, Child's. A. B. Christopher. No. 55,453; June 15; v. 275; p. 566.
Rosary. G. B. Hovekamp. No. 55,382; June 1; v. 275; p. 162.
Rubber boot or shoe sole. W. E. Piper. No. 55,528; June 22; v. 275; p. 778.
Rubber overshoe or similar article, Sole of a. W. E. Piper. No. 55,529; June 22; v. 275; p. 779.
Scoreboard. J. Zipp and J. P. Morbach. No. 55,499; June 15; v. 275; p. 574.
Shoe-sole. E. Phillips. No. 55,397; June 1; v. 275; p. 165.
Shoe plate, Rubber-. D. H. Eley and T. H. Ryan. No. 55,419; June 8; v. 275; p. 366.
Sign, Advertising-. J. W. Guinn. No. 55,421; June 8; v. 275; p. 367.
Sign, Advertising-. R. R. Johnstone. No. 55,471; June 15; v. 275; p. 570.
Souvenir, D.-Bogen. No. 55,408; June 8; v. 275; p. 364.
Spoon, Kitchen-. G. S. Tarbell. No. 55,540; June 22; v. 275; p. 781.
Sounding-post tool. G. J. Champane. No. 55,365; June 1; v. 275; p. 159.
Spat. T. A. Moolten. No. 55,394; June 1; v. 275; p. 165.

Spray device. G. B. Pickop. No. 55,486; June 15; v. 275; p. 572.
Sprinkler-heads or similar articles, Frame member for automatic. J. R. Hamilton. No. 55,463; June 15; v. 275; p. 568.
Statue. G. Bess. No. 55,546; June 29; v. 275; p. 976.
Statue, statuette, or ornament. L. W. Sebring. No. 55,574; June 29; v. 275; p. 981.
Statuette. W. J. Nowak. No. 55,525; June 22; v. 275; p. 778.
Statuette. A. J. Ziv. No. 55,543; June 22; v. 275; p. 781.
Swing. H. F. Peterman. No. 55,572; June 29; v. 275; p. 980.
Swing, Portable baby-. H. T. and E. J. Kingsbury. No. 55,384; June 1; v. 275; p. 163.
Sword hilt and scabbard. C. P. Woodbury. No. 55,498; June 15; v. 275; p. 574.
Test-clip. R. S. Mueller. No. 55,524; June 22; v. 275; p. 778.
Timepiece-dial. E. A. Marsh. Nos. 55,520–1; June 22; v. 275; p. 777.
Timepiece-dial. H. S. Montgomery. No. 55,523; June 22; v. 275; p. 777.
Tire. H. T. Gauss. No. 55,420; June 8; v. 275; p. 366.
Tire, Automobile-. J. B. Gabeline. No. 55,459; June 15; v. 275; p. 565.
Tire-cover. P. M. Lockwood. No. 55,475; June 15; v. 275; p. 570.
Tire, Elastic vehicle-. J. W. Denmead. No. 55,416; June 8; v. 275; p. 366.
Tire, Elastic vehicle-. F. E. Shannon. No. 55,437; June 8; v. 275; p. 370.
Tire, Non-skid. W. E. Duersten. No. 55,507; June 22; v. 275; p. 775.
Tire rack, Automobile-. J. F. Brennan. No. 55,552; June 29; v. 275; p. 977.
Tire-tread. A. L. Breitenstein. No. 55,364; June 1; v. 275; p. 159.
Tire-tread. A. L. Breitenstein. No. 55,411; June 8; v. 275; p. 365.
Tire-tread. H. E. Grooms. No. 55,378; June 1; v. 275; p. 162.
Tire-tread. W. Kline. No. 55,425; June 8; v. 275; p. 367.
Tire-tread, Non-skid. E. N. Downes. No. 55,506; June 22; v. 275; p. 774.
Tire, Vehicle-. D. F. Crow. No. 55,414; June 8; v. 275; p. 365.
Token, Friendship-. M. V. Bauer. No. 55,447; June 15; v. 275; p. 565.
Tone-arm. M. Borris. No. 55,449; June 15; v. 275; p. 566.
Tongs, Pair of. P. Kuzmjak. No. 55,385; June 1; v. 275; p. 163.
Towel-bar. S. D. Baker. No. 55,354; June 1; v. 275; p. 157.
Toy. W. F. Maas. No. 55,427; June 8; v. 275; p. 368.
Toy ball. F. A. Cigol. No. 55,413; June 8; v. 275; p. 365.
Toy figure, Mechanical. H. W. L. Herbert. No. 55,563; June 29; v. 275; p. 979.
Toy garage. O. R. Payne. No. 55,485; June 15; v. 275; p. 572.
Toy jingle-hoop. B. B. Brown. No. 55,412; June 8; v. 275; p. 365.
Toy locomotive. T. Klippel. No. 55,567; June 29; v. 275; p. 979.
Toy rocker. L. F. and O. G. Noirot. No. 55,429; June 8; v. 275; p. 368.
Toy vehicle. W. R. Peoples. Nos. 55,433–4; June 8; v. 275; p. 369.
Toy vehicle. J. C. Welch. No. 55,445; June 8; v. 275; p. 371.
Toy vehicle. J. C. Welch. No. 55,580; June 29; v. 275; p. 982.
Toy wheelbarrow. A. C. Gilbert. No. 55,376; June 1; v. 275; p. 161.
Toy wheelbarrow. V. Unte. No. 55,578; June 29; v. 275; p. 982.
Tray. D. G. Dowling. No. 55,369; June 1; v. 275; p. 160.
Tray, Tool-. G. M. Taylor. No. 55,492; June 15; v. 275; p. 573.
Typewriting-machine frame. W. F. Helmond. No. 55,381; June 1; v. 275; p. 162.
Vacuum apparatus, Therapeutic. W. W. Chase. No. 55,452; June 15; v. 275; p. 566.
Vehicle, Juvenile. J. H. Dixon. No. 55,417; June 8; v. 275; p. 366.
Vehicle, Motor-. P. M. Smith. Nos. 55,440–2; June 8; v. 275; p. 370.
Vehicles, Steering-wheel for. C. H. Eldon. No. 55,456; June 15; v. 275; p. 567.
Wall-bracket. F. K. Maerz. No. 55,390; June 1; v. 275; p. 164.
Washing-machine. H. W. Eden. No. 55,371; June 1; v. 275; p. 160.
Wind-deflector. R. C. Shaw. No. 55,489; June 15; v. 275; p. 573.
Window. J. Sowalski. No. 55,539; June 22; v. 275; p. 780.
Window, Auto-curtain. R. Haley. No. 55,379; June 1; v. 275; p. 162.
Window-frames, Bolt for. W. W. Sleight. No. 55,438; June 8; v. 275; p. 370.
Window-frames, Holdfast for. W. W. Sleight. No. 55,439; June 8; v. 275; p. 370.
Windshield, Automobile-. W. W. Walton. No. 55,444; June 8; v. 275; p. 371.

ALPHABETICAL LIST OF TRADE-MARKS.

Acid, Carbolic. A/S Det Almindelige Handelskompagni. No. 132,665; June 29; v. 275; p. 1015.
Aeroplanes and parts thereof. Rubay Company. No. 132,046; June 8; v. 275; p. 416.
Airplane-propellers. G. W. Hartzell. No. 132,700; June 29; v. 275; p. 1016.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 132,663; June 8; v. 275; p. 416.
Alcohol, Methyl. The Will Corporation. No. 132,591; June 22; v. 275; p. 825.
Alloys of copper, tin, zinc, &c. Phosphor Bronze Smelting Company. No. 132,484; June 22; v. 275; p. 821.
Anilins and dyestuffs. W. R. Grace & Co. No. 135,393; June 22; v. 275; p. 818.
Antiseptic astringent deodorant. Rhea Chemical Company. No. 132,503; June 22; v. 275; p. 822.
Antiseptic demulcent corrective. Burwell & Dunn Co. No. 132,312; June 22; v. 275; p. 816.
Antiseptic for use in the nose. J. O. Beauchamp. No. 132,295; June 22; v. 275; p. 815.
Antiseptic germicide and deodorant. C. L. Stocks. No. 132,544; June 22; v. 275; p. 823.
Antiseptic tablets. Sharp & Dohme. No. 132,523; June 22; v. 275; p. 823.
Antiseptic used as a gargle, mouth-wash, &c., Liquid. Saxo-Chemical Co. No. 132,511; June 22; v. 275; p. 822.
Antiseptics. Spirocide Corporation. No. 132,577; June 22; v. 275; p. 824.
Apples, Fresh. Denney & Co. No. 132,355; June 22; v. 275; p. 817.
Apples, Fresh. Weiser Air Storage Co. No. 131,946; June 1; v. 275; p. 199.
Aprons, house-dresses, petticoats, &c. The Iowa Skirt Manufacturing Company. No. 132,180; June 15; v. 275; p. 618.
Arsenical compounds, Solutions of medicinal. Lowy Laboratory. No. 132,441; June 22; v. 275; p. 820.
Asphalts, Blown-oil. C. Muller. No. 132,023; June 8; v. 275; p. 415.
Automobile exhaust-heaters. Noble Heater Company. No. 132,760; June 29; v. 275; p. 1017.
Automobiles. Kissel Motor Car Company. No. 132,722; June 29; v. 275; p. 1016.
Automobiles. Leach-Biltwell Motor Company. No. 132,010; June 8; v. 275; p. 414.
Automobiles. Re Vere Motor Car Corporation. Nos. 132,501–2; June 22; v. 275; p. 822.
Automobiles and automobile-trucks. Hebb Motors Company. No. 131,995; June 8; v. 275; p. 414.
Automobiles and motor-trucks. The Jones Motor Car Co. No. 132,716; June 29; v. 275; p. 1016.
Baby-pants, Sanitary. M. S. George. No. 132,147; June 15; v. 275; p. 617.
Bacteriological culture. T. A. Walsh. No. 132,579; June 22; v. 275; p. 824.
Baking-powder. J. A. De Luca. No. 132,354; June 22; v. 275; p. 817.
Baking-powder. The Great Atlantic and Pacific Tea Company. No. 132,397; June 22; v. 275; p. 818.
Baking-powder, soda, cream of tartar, ammonia, and liquid blue. The Great Atlantic and Pacific Tea Company. No. 132,691; June 29; v. 275; p. 1015.
Barrels and kegs. St. Louis Cooperage Company. No. 132,821; June 29; v. 275; p. 1019.
Bath and lounging robes and smoking-jackets. Chas. M. Schwartz. No. 132,516; June 22; v. 275; p. 822.
Bathtubs, lavatories, water-closets, &c. Delaware Electric & Supply Co. No. 132,124; June 15; v. 275; p. 616.
Beans, Dry lima. California Lima Bean Growers Association. No. 132,636; June 29; v. 275; p. 1014.
Bedspreads. B. F. Bailey & Co. No. 132,088; June 15; v. 275; p. 615.
Belt-dressing. Joseph Dixon Crucible Company. No. 132,130; June 15; v. 275; p. 616.
Beltings, Waist and skirt. A. B. Gaba. No. 132,685; June 29; v. 275; p. 1015.
Belts, Abrasive or grinding. Manning Abrasive Company. No. 132,453; June 22; v. 275; p. 820.
Belts for personal wear. Marathon Tire & Rubber Co. No. 132,019; June 8; v. 275; p. 415.
Belts for supporting garments. I. Ravich & Sons. No. 132,786; June 29; v. 275; p. 1018.

Beverage and a syrup for flavoring said beverage, Non-alcoholic. Bethania Mineral Spring Company. No. 132,097; June 15; v. 275; p. 615.

Beverage and syrup for making same, Non-alcoholic. J. H. Crome. No. 132,344; June 22; v. 275; p. 817.

Beverage, Cereal malt. J. Barbey. No. 132,089; June 15; v. 275; p. 615.

Beverage, Cereal malt. J. Hauenstein. No. 132,408; June 22; v. 275; p. 819.

Beverage, Malt. Greensburg Brewing Company. No. 132,399; June 22; v. 275; p. 818.

Beverage, Malt. W. Horlick, Jr. No. 131,998; June 8; v. 275; p. 414.

Beverage, Malt. F. A. Maddas. No. 132,196; June 15; v. 275; p. 618.

Beverage, Non-alcoholic, &c. The American Brewing Co. No. 132,079; June 15; v. 275; p. 615.

Beverage, Non-alcoholic, &c. Arrow Products Co. No. 132,290; June 22; v. 275; p. 815.

Beverage, Non-alcoholic. Buffalo Brewing Company. No. 132,632; June 29; v. 275; p. 1014.

Beverage, Non-alcoholic. Cincinnati Beverage and Products Co. No. 132,115; June 15; v. 275; p. 616.

Beverage, Non-alcoholic. Joseph Krieg-Fink Co. No. 132,433; June 22; v. 275; p. 820.

Beverage, Non-alcoholic fruit. Miracle Company. No. 132,208; June 15; v. 275; p. 619.

Beverage, Non-alcoholic herb. Frank & Lewis Company. No. 132,376; June 22; v. 275; p. 818.

Beverage, Non-intoxicating cereal. Indianapolis Brewing Co. No. 132,418; June 22; v. 275; p. 819.

Beverage, Non-intoxicating non-cereal. H. T. Dewey & Sons Co. No. 132,127; June 15; v. 275; p. 616.

Beverage, Non-intoxicating non-cereal maltless. H. T. Dewey & Sons Co. No. 132,358; June 22; v. 275; p. 817.

Beverages and syrups for making same, Non-alcoholic. Standard Bottling and Extract Co. No. 132,250; June 15; v. 275; p. 620.

Beverages, Chemical compound for use in the manufacture of. Economical Materials Co. No. 132,365; June 22; v. 275; p. 817.

Beverages, Culture or ferment employed in the production of cereal. M. Wahl. No. 132,573; June 22; v. 275; p. 824.

Beverages, Fruitless anise-flavored carbonated. S. Batugios. No. 132,090; June 15; v. 275; p. 615.

Beverages, Malt cereal. Rainier Products Company. Nos. 132,496–7; June 22; v. 275; p. 822.

Beverages, Non-alcoholic maltless. E. D. Fave. No. 132,140; June 15; v. 275; p. 617.

Beverages, Non-alcoholic maltless. Florida Fruit Juice Co. No. 132,372; June 22; v. 275; p. 818.

Beverages, Non-alcoholic non-cereal maltless. Hygeia Beverage Co. No. 132,174; June 15; v. 275; p. 618.

Beverages, Powder convertible into. Modern Food Company. No. 132,747; June 29; v. 275; p. 1017.

Bicycles. Great Western Manufacturing Co. No. 131,987; June 8; v. 275; p. 414.

Bicycles. Westfield Manufacturing Company. No. 132,070; June 8; v. 275; p. 416.

Biscuit. National Biscuit Company. Nos. 132,750–3; June 29; v. 275; p. 1017.

Blankets and cloth in the piece, Woolen. Gumbinsky Bros. Company. No. 132,400; June 22; v. 275; p. 818.

Blood-purifier. H. Silverman. No. 132,526; June 22; v. 275; p. 823.

Blouses and suits, Women's, misses', and children's. Nickels Manufacturing Company. No. 132,217; June 15; v. 275; p. 619.

Blue, Wash-. Simeon & Elting. No. 132,527; June 22; v. 275; p. 823.

Boiler-preserver. P. L. O'Neill. No. 132,472; June 22; v. 275; p. 821.

Boots and shoes. Thompson Shoe Company. No. 132,261; June 15; v. 275; p. 620.

Boots and shoes of leather, &c. J. & T. Cousins Co. No. 132,341; June 22; v. 275; p. 817.

Boots and shoes of leather, leather and fabric, &c. J. & T. Cousins Co. No. 132,121; June 15; v. 275; p. 616.

Bottles, Capping-skins for stoppered. Julius Schmid, Incorporated. No. 132,801; June 29; v. 275; p. 1019.

Box-cover wrappers, package and shipping labels and tags. L. A. Liebs Co. No. 132,731; June 29; v. 275; p. 1017.

Brick, Fire-. Pyro Products Company. No. 132,039; June 8; v. 275; p. 415.

Brick, Refractory. Quigley Furnace Specialties Co. No. 132,040; June 8; v. 275; p. 415.

Burlaps, ducks, drills, &c. Goodin Reid & Co. No. 132,391; June 22; v. 275; p. 818.

Burners, kerosene gas generators and burners, and furnaces, Kerosene-. Champion Kerosene-Burner Company. No. 131,969; June 8; v. 275; p. 413.

Butter, Crenshaw Bros. Produce Co. No. 131,971; June 8; v. 275; p. 413.

Butter-serving machines. Food Appliances Manufacturing Corporation. No. 132,144; June 15; v. 275; p. 617.

Butter-serving machines. Food Appliances Manufacturing Corporation. No. 132,373; June 22; v. 275; p. 818.

Butter, Tub-. S. Saler. No. 132,238; June 15; v. 275; p. 620.

Buttons, Device for use in protecting material to which they are attached while cleaning. J. L. H. Blackwood. No. 131,962; June 8; v. 275; p. 413.

Buttons, Pearl. Paragon Button Corporation. No. 132,031; June 8; v. 275; p. 415.

Buttons, Pearl. Penn Rivet Corporation. No. 132,222; June 15; v. 275; p. 619.

Cake. F. G. Justice. No. 132,717; June 29; v. 275; p. 1016.

Cakes, crackers, and biscuits. Loose-Wiles Biscuit Company. No. 132,192; June 15; v. 275; p. 618.

Cakes or biscuits called matzohs. Harowitz Bros. & Margareten. No. 131,941; June 1; v. 275; p. 199.

Cakes, wafers, crackers, or biscuits. Loose-Wiles Biscuit Company. No. 132,193; June 15; v. 275; p. 618.

Camisoles, Ladies' silk. Kirschner-Hendler Co. No. 132,431; June 22; v. 275; p. 820.

Candies. T. Backé. No. 132,620; June 29; v. 275; p. 1013.

Candies. Hardie Bros. Co. No. 132,698; June 29; v. 275; p. 1016.

Candies. Lady Jefferson Candy Company. No. 132,726; June 29; v. 275; p. 1016.

Candies. D. Schiff. No. 132,798; June 29; v. 275; p. 1019.

Candies. Stearns-Hollinshead Co. No. 132,818; June 29; v. 275; p. 1019.

Candies and nuts. Treisman Bro's & Diversi Co. No. 132,057; June 8; v. 275; p. 416.

Candies, ice-cream, and pastry. Tiffin Products. No. 132,056; June 8; v. 275; p. 416.

Candies, Package-. W. Williams. No. 132,595; June 22; v. 275; p. 825.

Candy. The C. S. Ball Candy Company. No. 132,622; June 29; v. 275; p. 1073.

Candy. J. S. Bell Confectionery Company. No. 132,094; June 15; v. 275; p. 615.

Candy. Cascade Industries Company. No. 132,637; June 29; v. 275; p. 1014.

Candy. C. A. Crane. Nos. 132,654–5; June 29; v. 275; p. 1014.

Candy. Daisy Products Company. No. 131,936; June 1; v. 275; p. 199.

Candy. Grand Union Tea Co. No. 132,690; June 29; v. 275; p. 1015.

Candy. Guth Chocolate Company. No. 131,990; June 8; v. 275; p. 414.

Candy. D. F. Magee. No. 132,018; June 8; v. 275; p. 415.

Candy. Page & Shaw. No. 132,771; June 29; v. 275; p. 1018.

Candy. R. Pauley. No. 132,777; June 29; v. 275; p. 1018.

Candy. Venus Chocolate Company. No. 132,064; June 8; v. 275; p. 416.

Candy, Chocolate. J. O. Gilbert. No. 131,938; June 1; v. 275; p. 199.

Candy, confections, chocolate, &c. Ideal Cocoa & Chocolate Co. Nos. 132,710–11; June 29; v. 275; p. 1016.

Candles. Safety Night Light Company. No. 132,796; June 29; v. 275; p. 1019.

Canned apricots. Manteca Canning Co. No. 132,739; June 29; v. 275; p. 1017.

Canned fish. Von Bremen, Asche & Co. No. 132,851; June 29; v. 275; p. 1020.

Canned fish—viz., canned salmon. A. Rupert Company. No. 132,791; June 29; v. 275; p. 1018.

Canned foods. A. Rupert Company. No. 132,792; June 29; v. 275; p. 1018.

Canned fruits. Amalgamated Trading Company. No. 132,282; June 22; v. 275; p. 815.

Canned fruits. Bay Side Canning Co. No. 132,293; June 22; v. 275; p. 815.

Canned fruits. Calima Canning Co. No. 132,102; June 15; v. 275; p. 615.

Canned fruits. Manteca Packing Company. No. 132,740; June 29; v. 275; p. 1017.

Canned fruits and berries. Starr Fruits Products Co. No. 132,817; June 29; v. 275; p. 1019.

Canned fruits and tomatoes. O. A. Nelson. No. 132,215; June 15; v. 275; p. 619.

Canned fruits and tomatoes. O. A. Nelson; Nos. 132,462–3; June 22; v. 275; p. 821.

Canned fruits and vegetables. China, Japan & South America Trading Co. No. 132,330; June 22; v. 275; p. 816.

Canned fruits and vegetables. Croker Packing Co. No. 132,343; June 22; v. 275; p. 817.

Canned fruits and vegetables. Fairfield Canning Company. No. 131,981; June 8; v. 275; p. 414.

Canned fruits and vegetables. Manteca Canning Co. Nos. 132,737–8; June 29; v. 275; p. 1017.

Canned fruits, vegetables, and fish. China, Japan and South America Trading Co. No. 132,642; June 29; v. 275; p. 1014.

Canned fruits, vegetables, and jams. Croker Packing Co. No. 132,659; June 29; v. 275; p. 1014.

Canned peaches and apricots. United Canneries Company of California. No. 132,842; June 29; v. 275; p. 1020.

Canned pork and beans, apple-butter, jams, &c. The Acme Packing Company. No. 132,602; June 29; v. 275; p. 1013.

Canned salmon. D. Connor. No. 132,653; June 29; v. 275; p. 1014.

Canned salmon and oysters. Getz Bros. & Co. No. 132,385; June 22; v. 275; p. 818.

Canned tea. S. Nishikawa. No. 132,758; June 29; v. 275; p. 1017.

Canned tuna fish. White Star Canning Co. No. 132,275; June 15; v. 275; p. 621.

Canned vegetables. J. E. Barr Pickling & Preserving Company. No. 132,623; June 29; v. 275; p. 1013.

Canned vegetables. Crary Brokerage Company. No. 132,656; June 29; v. 275; p. 1014.

Canned vegetables. Green Mountain Packing Company. No. 131,988; June 8; v. 275; p. 414.

Canned vegetables. The Mount Airy Canning Co. No. 132,749; June 29; v. 275; p. 1017.

Canned vegetables. Wabash Valley Packing Co. No. 132,065; June 8; v. 275; p. 416.

Canned vegetables and dried fruits. California Packing Corporation. No. 132,318; June 22; v. 275; p. 816.

Canned vegetables, fruits, and jams. Croker Packing Co. No. 132,658; June 29; v. 275; p. 1014.

Caps, Women's. M. D. Cannon. No. 132,104; June 15; v. 275; p. 616.

Capsules for headache, Medicated. C. P. Sohn. No. 132,535; June 22; v. 275; p. 823.

Capsules, Urinary antiseptic. Sharp & Dohme. No. 132,522; June 22; v. 275; p. 823.

Carbon-preventive or gas intensifier, Chemical. C. A. Butler. Nos. 132,314–5; June 22; v. 275; p. 816.

Carbon-removers. The Ryan-Eastman Co. No. 132,794; June 29; v. 275; p. 1015.

Cardboard, bristol-board, and coated paper, Coated. A. M. Collins Manufacturing Company. No. 132,651; June 29; v. 275; p. 1014.

Carpets. Roxbury Carpet Company. No. 132,236; June 15; v. 275; p. 620.

Casting metals, Metallic deoxidizers and scavengers for use in. Fansteel Products Company. No. 132,139; June 15; v. 275; p. 617.

Castings and forgings, Iron and steel. Chain Belt Company. No. 132,109; June 15; v. 275; p. 616.

Castings, Metal. Driver-Harris Company. No. 132,667; June 29; v. 275; p. 1015.

Cellulose compound used in preparing collodion embedding-tissues for microscopic specimens. The Will Corporation. No. 134,592; June 22; v. 275; p. 825.

Cement, Portland. Alsen Cement Co. of America. No. 132,605; June 29; v. 275; p. 1013.

Cement, Portland. Indiana Portland Cement Company. No. 132,377; June 15; v. 275; p. 618.

Cement, Roofing-. R. Greenstein. No. 132,693; June 29; v. 275; p. 1015.

Certain named blankets and bed-comforts. Burnham-Munger-Root Dry Goods Co. No. 132,101; June 15; v. 275; p. 615.

Chains, bracelets, and crosses, Bead neck-. Stern Brothers & Company. No. 132,256; June 15; v. 275; p. 620.

Chains for agricultural and other machinery and apparatus. Locke Steel Chain Company. No. 132,439; June 22; v. 275; p. 820.

Cheese. J. L. Kraft & Bros. Co.. No. 132,723; June 29; v. 275; p. 1016.

Cheese. Roethlisberger & Co. No. 132,044; June 8; v. 275; p. 416.

Chemical preparations containing formaldehyde, &c. Società Industrie Chemiche Ittiolo. No. 132,813; June 29; v. 275; p. 1019.

Chemicals, medicines, and pharmaceutical preparations. United Drug Company. No. 132,568; June 22; v. 275; p. 824.

Cherries, Preserved. Dr. Enrico Parodi Delfino. No. 132,352; June 22; v. 275; p. 817.

Chocolate. Ideal Cocoa & Chocolate Co. No. 131,999; June 8; v. 275; p. 414.

Chocolate. Ideal Cocoa & Chocolate Co. No. 132,712; June 29; v. 275; p. 1016.

Chocolate. Yee Bee Chocolate Co. Nos. 132,849–50; June 29; v. 275; p. 1020.

Chocolate bars, Milk-. Hooton Cocoa Company. No. 132,706; June 29; v. 275; p. 1016.

Chocolates. The Ohio Hotel Operating Company. No. 132,765; June 29; v. 275; p. 1018.

Cleaner for clothes, Dry. A. G. Gorden. No. 132,156; June 15; v. 275; p. 617.

Cleaner for white glacé kid-leather. C. A. Zoes. No. 132,074; June 8; v. 275; p. 417.

Cleaning and finishing compound or powders for painted, polished, and stone surfaces. R. T. Conlon. No. 132,119; June 15; v. 275; p. 616.

Cleaning and scouring powder. Lekko Soap Company. No. 132,437; June 22; v. 275; p. 820.

Cleaning compound for removing road oils and tars from autos and clothing. R. O. R. Chemical Co. No. 132,328; June 22; v. 275; p. 816.

Cleaning compounds. Sunbeam Products Company. No. 132,557; June 22; v. 275; p. 824.

Cleaning compounds. Utilities Chemical Company. No. 132,268; June 15; v. 275; p. 621.

Cleaning-paste. W. B. Smythe. No. 132,050; June 8; v. 275; p. 416.

Cleaning-polish for glass, &c. R. Rodriquez. No. 132,504; June 22; v. 275; p. 822.

Cleaning, polishing, preserving, and finishing certain named surfaces and articles, Polish for. Everbright Manufacturing Company. No. 131,980; June 8; v. 275; p. 414.

Cleaning preparation. John Bell, Hills & Lucas. No. 132,093; June 15; v. 275; p. 615.

Cleansing preparation for rugs, silk, &c. M. Bedrosian. No. 131,960; June 8; v. 275; p. 413.

Cleansing preparation for white shoes, gloves, and belts. E. H. Johnson. No. 132,424; June 22; v. 275; p. 819.

Clips for fountain-pens and pencils, paper-clips, &c., Pocket-. Herbert Terry & Sons. No. 132,834; June 29; v. 275; p. 1020.

Cloaks and suits, Misses' and children's. E. J. Wile & Co. No. 132,589; June 22; v. 275; p. 825.

Closet-seats and flushing-tanks. William Heap & Sons. No. 131,994; June 8; v. 275; p. 414.

Cloth-cutters and cloth-cutting machines, Electrically-operated. F. M. Laserson. No. 132,188; June 15; v. 275; p. 618.

Cloth, Shoe-. Seamans & Cobb Co. No. 132,519; June 22; v. 275; p. 822.

Clothing. M. N. Mayehoff & Co. No. 132,457; June 22; v. 275; p. 820.

Clothing. Michigan Motor Garment Co. No. 132,202; June 15; v. 275; p. 619.

Clothing. Nichols Underwear Corporation. No. 132,466; June 22; v. 275; p. 821.

Clothing. L. F. Sturm. No. 132,552; June 22; v. 275; p. 824.

Clothing for women. Chandler & Co. No. 132,327; June 22; v. 275; p. 816.

Coal. Mitchell & Dillon Coal Co. No. 132,022; June 8; v. 275; p. 415.

Coal. Slogo Coal Company. No. 132,049; June 8; v. 275; p. 416.

Coal. Storm King Coal Company. No. 132,822; June 29; v. 275; p. 1019.

Coal, Bituminous. Taylor Coal Company. No. 132,832; June 29; v. 275; p. 1020.

Coats and suits, Misses'. Schulman & Hauptman. No. 132,515; June 22; v. 275; p. 822.

Cocoa and chocolate. The Stollwerck Chocolate Company. Nos. 132,545–6; June 22; v. 275; p. 823.

Cocoa in powdered form, Instantaneous. Smith & Clark Company. No. 132,810; June 29; v. 275; p. 1019.

Cocoanut-butter. National Cocoanut Butter Company. No. 132,754; June 29; v. 275; p. 1017.

Cocoanut, Packaged, grated, and shredded. Franklin Baker Company. No. 132,682; June 29; v. 275; p. 1015.

Coffee. J. Aron & Company. Nos. 132,083–4; June 15; v. 275; p. 615.

Coffee. J. Aron & Company. No. 132,289; June 22; v. 275; p. 815.

Compounds for treating certain named diseases and affections. The Owl Drug Company. No. 132,476; June 22; v. 275; p. 821.

Compound for use in removing paint, varnish, &c. Universal Paint Remover and Motor Cleaning Company. No. 132,267; June 15; v. 275; p. 621.

Compound for use in treating disorders of the stomach, liver, and bowels. J. H. Snyder Med. Co. No. 132,534; June 22; v. 275; p. 823.

Confection, known as mints. L. P. Larson, Jr., Co. No. 132,009; June 8; v. 275; p. 414.

Confectionery, Certain named. Nelson-Dashiell Company. No. 132,028; June 8; v. 275; p. 415.

Confectionery—viz, chocolates. All-Qual-Sweets Co. No. 131,952; June 8; v. 275; p. 413.

Conveying machinery, Idlers and rolls for. Link-Belt Company. No. 132,438; June 22; v. 275; p. 820.

Cooking and kitchen utensils, Aluminum. Landers, Frary & Clark. No. 132,186; June 15; v. 275; p. 618.

Cork disks and washers for sealing bottles, jars, &c. New Process Cork Company. No. 132,029; June 8; v. 275; p. 415.

Corset-covers, envelop-chemises, &c. Elm Undergarment Co. No. 132,266; June 15; v. 275; p. 621.

Corsets, brassières, &c. Ivy Corset Company. No. 132,420; June 22; v. 275; p. 819.

Corsets, corsettes, corsetettes, and brassières. John Wanamaker, New York. No. 132,581; June 22; v. 275; p. 824.

Cotton and silk piece goods. Commercial Shirt Company. No. 132,118; June 15; v. 275; p. 616.

Cotton piece goods. Chuck, Davis & Co. No. 132,337; June 22; v. 275; p. 817.

Cotton piece goods. Daniel Miller Company. No. 132,205; June 15; v. 275; p. 619.

Cotton piece goods. E. Gutman & Co. No. 132,401; June 22; v. 275; p. 818.

Cotton piece goods. F. C. Harder. No. 132,163; June 15; v. 275; p. 617.

Cotton piece goods. O. H. Hinck. Nos. 132,166–9; June 15; v. 275; pp. 617–18.

Cotton piece goods. Pepperell Manufacturing Company. No. 132,225; June 15; v. 275; p. 619.

Cotton piece goods. Warner-Godfrey Co. No. 132,270; June 15; v. 275; p. 621.

Cotton piece goods, cotton, cotton and silk, and cotton, silk and worsted piece goods. Wm. Simpson Sons & Co. No. 132,247; June 15; v. 275; p. 620.

Cotton piece goods, Mercerized. Edwin P. Gleason's Son. No. 131,939; June 1; v. 275; p. 199.

Cotton, woolen, and silk goods, and ribbons in the piece. Hughes & Company. (Export Corporation.) No. 132,414; June 22; v. 275; p. 819.

Crackers and cakes. H. W. Clark Biscuit Company. No. 131,935; June 1; v. 275; p. 199.

Crape piece goods, Silk. Salembier & Clay. No. 131,944; June 1; v. 275; p. 199.
Cream for the skin. Queisser & Co. No. 132,494; June 22; v. 275; p. 822.
Cream-of-tartar compound. Caverly-Plumer Company. No. 132,323; June 22; v. 275; p. 816.
Creams and paste for the teeth. Queisser & Co. No. 132,493; June 22; v. 275; p. 822.
Creams, Face-. Partola Distributing Company. No. 132,774; June 29; v. 275; p. 1018.
Creams, hair-tonics, &c., Almond and honey. A. J. Gannon. No. 132,686; June 29; v. 275; p. 1015.
Creams, hair-tonics, and shampoos, Cold-. W. Kahn. No. 132,426; June 22; v. 275; p. 819.
Curtain-windows for vehicle and similar curtains. A. S. Campbell Company. No. 131,965; June 8; v. 275; p. 413.
Cutlery and machinery. Simmons Hardware Company. No. 132,246; June 15; v. 275; p. 620.
Crucible and fire-brick coating compound. Non-Metallic Flux Company. No. 132,761; June 29; v. 275; p. 1017.
Dandruff-remover. Gro-Mor Chemical Co. No. 132,694; June 29; v. 275; p. 1015.
Dentifrice. J. E. Hawley. No. 132,409; June 22; v. 275; p. 819.
Dentifrice and antiseptic deodorants. M. E. Sullivan. No. 132,828; June 29; v. 275; p. 1020.
Deodorant. V. Vivaudou. No. 132,571; June 22; v. 275; p. 824.
Deodorant and antiseptic powders. Miami Chemical Co. No. 132,459; June 22; v. 275; p. 820.
Depilatories. Oneida Corporation. No. 132,471; June 22; v. 275; p. 821.
Detergent and scouring powder. Western Chemical Company. No. 132,069; June 8; v. 275; p. 416.
Digestants and medicinal preparations for dyspepsia, &c. Bristol-Myers Company. No. 132,308; June 22; v. 275; p. 816.
Disinfectant, Pine-oil. The Sherwin-Williams Co. No. 132,806; June 29; v. 275; p. 1019.
Drink, Soft. F. & M. Schaefer Brewing Co. No. 132,513; June 22; v. 275; p. 822.
Drying liquid composition in the nature of lacquer or paint. Rust-Knot Mfg. Co., No. 132,237; June 15; v. 275; p. 620.
Dye and dressing, Auto-top. The Waterproofings Manufacturing Co. No. 132,582; June 22; v. 275; p. 825.
Dyes combined with soap. Sunbeam Chemical Company. Nos. 132,553–6; June 22; v. 275; p. 824.
Dyestuffs. R. L. Fuller & Co. No. 132,684; June 29; v. 275; p. 1015.
Egg-powder and egg-substitute powder. Eg-Ste-Tut Mfg. Co. No. 131,979; June 8; v. 275; p. 414.
Eggs. Kendal & Slusser. No. 132,428; June 22; v. 275; p. 819.
Eggs in powdered form. Empire Bakers Specialty Co. No. 132,672; June 29; v. 275; p. 1015.
Eggs, Tonic for increasing the production and fertility of. Wight Company. No. 132,864; June 29; v. 275; p. 1021.
Electric lighting and wiring fixtures. Seidler-Miner Company. No. 132,241; June 15; v. 275; p. 620.
Electric-lighting fixtures. The Art Metal Manufacturing Company. No. 132,615; June 29; v. 275; p. 1013.
Electric motors, motor-frames and parts. Domestic Electric Company. No. 132,131; June 15; v. 275; p. 616.
Electrical apparatus, machines, and supplies. Scintilla. No. 132,240; June 15; v. 275; p. 620.
Electrical apparatus, machines, and supplies. Sunnyhome Electric Company. No. 132,259; June 15; v. 275; p. 620.
Envelops, Mailing-. Central Ohio Paper Co. No. 132,106; June 15; v. 275; p. 616.
Envelops, writing papers, and tablets, Mailing and correspondence. American Papeterie Company. No. 132,607; June 29; v. 275; p. 1013.
Etching-powder. A. M. Collins Manufacturing Company. No. 132,650; June 29; v. 275; p. 1014.
Eye-wash. Valmas Drug Company. No. 132,847; June 29; v. 275; p. 1020.
Fabric made with a cotton warp. Lesher, Whitman & Co. No. 132,729; June 29; v. 275; p. 1017.
Fabrics and cotton and silk piece goods, linens, Pile. Saltzman & Berman. No. 132,239; June 15; v. 275; p. 620.
Fabrics in the piece, Woven, knitted, &c. Cheney Brothers. Nos. 131,933–4; June 1; v. 275; p. 199.
Fabrics, Pile. Bennett and Aspden. No. 132,095; June 15; v. 275; p. 615.
Fabrics, Pile. Sidney Blumenthal & Co. No. 132,244; June 15; v. 275; p. 620.
Fabrics, Textile. Kops Bros. No. 131,942; June 1; v. 275; p. 199.
Fancy goods, furnishings, and notions. Priscilla Publishing Co. No. 132,783; June 29; v. 275; p. 1018.
Fasteners, Snap-. Carr Fastener Company. Nos. 131,966–7; June 8; v. 275; p. 413.
Fasteners, Snap-. Samstag & Hilder Bros. No. 132,047; June 8; v. 275; p. 416.
Feed. The McMillen Co. No. 132,016; June 8; v. 275; p. 415.
Feed, Dairy and stock. Chapin & Company. No. 132,640; June 29; v. 275; p. 1014.
Feed for calves and pigs, Mixed grain. Hales & Edwards Company. No. 132,402; June 22; v. 275; p. 819.
Feed, Horse. Western Feed Manufacturers. No. 132,860; June 29; v. 275; p. 1020.
Feed, Poultry. C. O. Dickelman Co. No. 131,937; June 1; v. 275; p. 199.
Feed, Poultry and stock. J. Cushing Co. No. 131,972; June 8; v. 275; p. 413.
Feed, Scratch. Western Feed Manufacturers. Nos. 132,861–2; June 29; v. 275; pp. 1020–1.
Feeds, Poultry and stock. J. Cushing Co. No. 132,660; June 29; v. 275; p. 1014.
Filling and structural material. Celite Products Company. Nos. 132,325–6; June 22; v. 275; p. 816.
Filling and structural material, Heat-insulating, &c. Celite Products Company. No. 132,324; June 22; v. 275; p. 816.
Fire-engines, water-towers, &c. American La France Fire Engine Co. No. 132,284; June 22; v. 275; p. 815.
Fire-extinguishing compound, Chemical. Carbona Products Company. No. 132,320; June 22; v. 275; p. 816.
Fish, Salt. J. K. Dennis. Nos. 131,975–6; June 8; v. 275; pp. 413–4.
Flags. Emerson Manufacturing Company. Nos. 132,670-1; June 29; v. 275; p. 1015.
Flash-lights and flash-light cases, Portable. Henry Hyman & Co. No. 132,175; June 15; v. 275; p. 618.
Flavoring extracts, Food-. American Renoleo Company. No. 132,608; June 29; v. 275; p. 1013.
Flavoring extracts used in the making of non-alcoholic, &c., beverages. The C. F. Sauer Company. No. 132,509; June 22; v. 275; p. 822.
Floor-finish. B. L. Webb. No. 132,583; June 22; v. 275; p. 825.
Flour and cornmeal, Wheat-. Bay City Milling Company. No. 131,959; June 8; v. 275; p. 413.
Flour and stock feed, Wheat-. Canton Feed & Milling Company. No. 131,932; June 1; v. 275; p. 199.
Flour, Self-rising wheat-. The Acme Mills. No. 131,949; June 8; v. 275; p. 413.
Flour, Self-rising wheat-. Bernet, Craft & Kauffman Milling Co. No. 131,961; June 8; v. 275; p. 413.
Flour, Self-rising wheat- Mennel Milling Company. No. 132,198; June 15; v. 275; p. 618.
Flour, Wheat-. The Atchison Mills Corporation. No. 132,616; June 29; v. 275; p. 1013.
Flour, Wheat-. Holmes and Barnes. No. 132,996; June 8; v. 275; p. 414.
Flour, Wheat-. International Milling Company. No. 132,001; June 8; v. 275; p. 414.
Flour, Wheat-. International Milling Company. No. 132,179; June 15; v. 275; p. 618.
Flour, Wheat-. Lyon & Greenleaf Co. No. 132,733; June 29; v. 275; p. 1017.
Flour, Wheat-. W. P. Tanner-Gross & Company. No. 132,831; June 29; v. 275; p. 1020.
Flour, Wheat-. Washburn Crosby Co. No. 132,857; June 29; v. 275; p. 1020.
Flour, Wheat and pancake. O. W. Evertts. No. 132,675; June 29; v. 275; p. 1015.
Fluid the scent of which attracts animals and used as a bait, Chemically-compounded. Federal Fur & Wool Company. No. 132,676; June 29; v. 275; p. 1015.
Flying-machines, balloons, &c. Handley Page Limited. No. 131,993; June 8; v. 275; p. 414.
Food, Concentrated. U. S. Emergency Ration Corp. No. 132,844; June 29; v. 275; p. 1020.
Food for hogs, Mixed. Park & Pollard Company. No. 132,479; June 22; v. 275; p. 821.
Foods and ingredients of foods. Y. Hattori. No. 132,407; June 22; v. 275; p. 819.
Foods. Wolf & Bird. No. 132,867; June 29; v. 275; p. 1021.
Foods and ingredients of foods. John A. Thompson Co. No. 132,835; June 29; v. 275; p. 1020.
Foods and ingredients of foods. Julius Wile Sons & Co. No. 132,590; June 22; v. 275; p. 825.
Foods and ingredients of foods. Walker-Matteson Company. No. 132,578; June 22; v. 275; p. 824.
Foods and ingredients of foods. Walker-Matteson Company. No. 132,855; June 29; v. 275; p. 1020.
Foods, Certain named. G. F Jefferson. No. 132,003; June 8; v. 275; p. 414.
Foods, Certain named. Libby, McNeill & Libby. Nos. 132,012–3; June 8; v. 275; p. 415.
Foods, Certain named. Waples-Platter Grocer Company. No. 132,067; June 8; v. 275; p. 416.
Forgings, Steel. Sizer Forge Company. No. 132,530; June 22; v. 275; p. 823.
Fruit preserves, table-syrup, orange-peel. Eatsum Products Corporation. No. 132,133; June 15; v. 275; p. 616.
Fruits, canned vegetables, &c., Canned and preserved. Griggs, Cooper & Company. No. 131,989; June 8; v. 275; p. 414.
Fruits, Fresh. J. E. Bartlett & Sons. No. 132,625; June 29; v. 275; p. 1013.
Fruits, jellies, jams, &c., Preserved and canned. Gordon
Fuel-burners for solidified alcohol. Basic Products Corporation. No. 131,958; June 8; v. 275; p. 413.
Furnaces. Rock Island Stove Company. No. 132,043; June 8; v. 275; p. 416.
& Dilworth. Nos. 131,984–5; June 8; v. 275; p. 414.
Furniture, &c., polish. Nu-Ray Polish Manufacturing Co. No. 132,467; June 22; v. 275; p. 821.
Games, toys, and sporting goods. I. Fuld. No. 132,378; June 22; v. 275; p. 818.
Gargle, Antiseptic and anesthetic. V. P. Rupe. No. 132,507; June 22; v. 275; p. 822.

Garments for young men and boys, Outer. J. J. Preis & Company. No. 132,227; June 15; v. 275; p. 619.
Garters. Penn Rivet Corporation. No. 132,224; June 15; v. 275; p. 619.
Garters. Penn Bros. Suspender Company. No. 132,778; June 29; v. 275; p. 1018.
Gasolene. Southern Oil Corporation. No. 132,816; June 29; v. 275; p. 1019.
Gasolene. J. W. Trotter. No. 132,265; June 15; v. 275; p. 621.
Gates. Rowe Manufacturing Co. No. 132,235; June 15; v. 275; p. 620.
Germicide deodorizing and disinfectant dentifrice preparation. Southern Chemical Products Co. No. 132,538; June 22; v. 275; p. 823.
Germicide, disinfectnat, antiseptic, and deodorant. Parke, Davis & Company. No. 132,773; June 29; v. 275; p. 1018.
Ginger-ale. Purity Cross, Inc. No. 132,232; June 15; v. 275; p. 619.
Glass. Corning Glass Works. No. 131,970; June 8; v. 275; p. 413.
Glass and artistic glassware, Cut. Corning Glass Works. Nos. 132,339–40; June 22; v. 275; p. 817.
Glove-binding. Star Binding & Trimming Co. No. 132,052; June 8; v. 275; p. 416.
Gloves, Fabric and leather. Wells-Lamont Manufacturing Company. No. 132,273; June 15; v. 275; p. 621.
Gloves, Leather and fabric. Langenberg Hat Company. No. 132,435; June 22; v. 275; p. 820.
Glue or lute, Marine. Bitu-Mo-Lin Products Co. No. 132,098; June 15; v. 275; p. 615.
Glues or adhesives, Casein. The Casein Manufacturing Company. No. 132,322; June 22; v. 275; p. 816.
Gowns, Children's muslin. J. K. Hammerman. No. 132,161; June 15; v. 275; p. 617.
Grapes, Fresh. L. Rusconi. No. 132,793; June 29; v. 275; p. 1018.
Grating, Metal. Mitchell-Tappen Company. No. 132,745; June 29; v. 275; p. 1017.
Grease-cups. Lunkenheimer Company. Nos. 132,443–4; June 22; v. 275; p. 820.
Grain for chick and poultry feed, &c., Mixed. International Sugar Feed Co. No. 132,714; June 29; v. 275; p. 1016.
Grease for stopcocks and the like. W. H. Hart. No. 132,165; June 15; v. 275; p. 617.
Greases and oils. The Ohio Grease Company. No. 132,764; June 29; v. 275; p. 1018.
Grinding and polishing wheels and blocks. Abradant Products Company. No. 131,948; June 8; v. 275; p. 413.
Gum, Chewing-. O-Pee-Chee Gum Co. No. 132,221; June 15; v. 275; p. 619.
Hair and scalp tonic. D. T. Ward. No. 132,856; June 29; v. 275; p. 1020.
Hair, Coloring for the. J. Goldman. No. 132,390; June 22; v. 275; p. 818.
Hair-coloring for the beard and hair. Panafieu Pere et Fils. No. 132,371; June 22; v. 275; p. 818.
Hair-dressing. A. Plough. No. 132,483; June 22; v. 275; p. 821.
Hair-grower, shampoo, brilliantine, or pressing-oil. L. J. Reeves. No. 132,788; June 29; v. 275; p. 1018.
Hair-nets. R. E. Tower. No. 132,837; June 29; v. 275; p. 1020.
Hair-restorer. M. Braunberg. No. 132,306; June 22; v. 275; p. 816.
Hair-tint. Kenton Pharmacal Company. No. 132,718; June 29; v. 275; p. 1016.
Hair-tonic. S. H. Olson. No. 132,767; June 29; v. 275; p. 1018.
Hair-tonic. E. J. Phinizee. No. 132,486; June 22; v. 275; p. 821.
Hair-tonic. I. L. Secrest. No. 132,803; June 29; v. 275; p. 1019.
Hair-tonic. M. Thompson. No. 132,563; June 22; v. 275; p. 824.
Hair-tonic. S. S. Winfield. No. 132,596; June 22; v. 275; p. 825.
Hair-tonic and hair-growing preparation. V. Dell. No. 132,353; June 22; v. 275; p. 817.
Hair-tonic, dandruff eradicator, and complexion-cream. A. R. Smith. No. 132,532; June 22; v. 275; p. 823.
Hair-shampoo. The Edison Laboratories. No. 132,366; June 22; v. 275; p. 817.
Hairpins, safety and toilet pins, snap-fasteners, hook-and-eye tape. De Long Hook and Eye Company, The. No. 131,974; June 8; v. 275; p. 413.
Hat-bleaching compound. E. Stratigos. No. 132,549; June 22; v. 275; p. 823.
Hat-shields. L. W. Hackney. No. 131,992; June 8; v. 275; p. 414.
Hatpins, scarf and baby pins. Stern Brothers & Company. No. 132,257; June 15; v. 275; p. 620.
Hats and caps, for men, women, and children, Oil. A. J. Tower Company. No. 132,564; June 22; v. 275; p. 824.
Hats, Ladies'. Kurz Bros. No. 132,184; June 15; v. 275; p. 618.
Hats, Ladies'. C. Roth. No. 132,506; June 22; v. 275; p. 822.
Hats, Ladies'. Gage Brothers & Company. No. 132,380; June 22; v. 275; p. 818.
Headlight lenses, Automobile-. Holoplane Glass Co. No. 131,997; June 8; v. 275; p. 414.
Headwear for men and boys. City Cap Co. No. 132,116; June 15; v. 275; p. 616.
Heaters. Hemp & Co. (Corp.) No. 132,702; June 29; v. 275; p. 1016.
Heaters, stoves, ranges. Quakertown Stove Works. No. 132,785; June 29; v. 275; p. 1018.
Herbaceous mixtures for treating asthma, &c. F. T. Stone. No. 132,547; June 22; v. 275; p. 823.
Hides and leather. Kullman, Salz & Co. Nos. 132,724–5; June 29; v. 275; p. 1016.
Hides, skins, and unwrought leather. Handley Page Limited. No. 132,697; June 29; v. 275; p. 1016.
Hosiery. Chipman Knitting Mills. No. 132,114; June 15; v. 275; p. 616.
Hosiery. Chipman Knitting Mills. Nos. 132,331–5; June 22; v. 275; p. 816.
Hosiery. Finery Hosiery Corporation. No. 132,143; June 15; v. 275; p. 617.
Hosiery. James H. Dunham & Co. No. 132,361; June 22; v. 275; p. 817.
Hosiery. Nomend Hosiery Mills, M. B. Laubach Co. No. 132,218; June 15; v. 275; p. 619.
Hosiery. Orange Hosiery Mills. No. 132,473; June 22; v. 275; p. 821.
Hosiery. Walker Hosiery Mills Co. No. 132,269; June 15; v. 275; p. 621.
Hosiery, Men's. Kennesaw Hosiery Company. No. 132,183; June 15; v. 275; p. 618.
Hosiery, sweaters, bathing-suits, &c. A. J. Armstrong Co. No. 132,086; June 15; v. 275; p. 615.
Hosiery, Women's and children's. L. Propper. No. 132,230; June 15; v. 275; p. 619.
Ice-cream cones. Royal Cone Co. No. 132,045; June 8; v. 275; p. 416.
Ice-creams, Including water-ice, &c. Smith & Clark Company. No. 132,809; June 29; v. 275; p. 1019.
Ink, Concentrated writing-. La Pierre Manufacturing Co. No. 132,185; June 15; v. 275; p. 618.
Ink, Fluid writing-. The Economy Ink Company. No. 132,668; June 29; v. 275; p. 1015.
Ink, Printing-. A. M. Collins Manufacturing Company. No. 132,649; June 29; v. 275; p. 1014.
Inkstands and inkwells. Sengbusch Self-Closing Inkstand Company. No. 132,242; June 15; v. 275; p. 620.
Insecticide. General Chemical Company. No. 132,383; June 22; v. 275; p. 818.
Insecticide, Liquid. Gets 'Em Co. No. 132,384; June 22; v. 275; p. 818.
Insecticides. Number 13 Chemical Co. No. 132,469; June 22; v. 275; p. 821.
Insecticides. Shoemaker & Busch. No. 132,524; June 22; v. 275; p. 823.
Insecticides. Zin Mfg. Company. No. 132,870; June 29; v. 275; p. 1021.
Insecticides and fungicides. A. B. Ansbacher & Company. No. 132,613; June 29; v. 275; p. 1013.
Jacks, Lifting-. Templeton, Kenly & Co. No. 132,560; June 22; v. 275; p. 824.
Jams, marmalades, and jellies. M. D. Taylor. No. 132,260; June 15; v. 275; p. 620.
Jewelry and precious-metal ware. Laubheim Bros. No. 132,436; June 22; v. 275; p. 820.
Kerosene. H. Earl Clack Company. No. 132,647; June 29; v. 275; p. 1014.
Kerosene, gasolene, &c. Standard Oil Company of New York. No. 132,252; June 15; v. 275; p. 620.
Kid, Glazed. Henwood & Nowak. No. 132,410; June 22; v. 275; p. 819.
Knitted and woven automobile-robes, blankets, and cloth or fabric in the piece. Home Woolen Mills. No. 131,940; June 1; v. 275; p. 199.
Laces. Garfield-Stahl Company. No. 132,146; June 15; v. 275; p. 617.
Lacquer for furniture, &c. C. A. Willey Company. No. 132,593; June 22; v. 275; p. 825.
Lacquers. E. I. du Pont de Nemours & Company. No. 132,367; June 22; v. 275; p. 817.
Lamp-chimneys, lantern-globes, &c. Gill Brothers Company. No. 132,149; June 15; v. 275; p. 617.
Landers, Frary & Clark, New Britain, Conn. Base-metal composition. No. 132,727; June 29; v. 275; p. 1016.
Lathes. R. K. Le Blond Machine Tool Company. No. 132,189; June 15; v. 275; p. 618.
Laxative. Granolax Company. No. 132,394; June 22; v. 275; p. 818.
Laxative, Carbonated. Frank M. Fox & Co. No. 132,681; June 29; v. 275; p. 1015.
Laxative cold-tablets, cocoanut-oil shampoo, Iron-rust and stain remover. B. R. Stone. No. 132,823; June 29; v. 275; p. 1019.
Laxative medicine in candy form. Partola Distributing Company. No. 132,775; June 29; v. 275; p. 1018.
Laxative tablet. L. H. Peckman. No. 132,488; June 22; v. 275; p. 821.
Lead-pencils, writing-pens, and rubber erasers. N. V. Handelsvereeniging Gebrs. Rikkers. No. 132,162; June 15; v. 275; p. 617.
Lead, zinc, and colors in oil, and dry red lead, White. L. H. C. Hart. No. 132,164; June 15; v. 275; p. 617.
Leather. John R. Evans & Company. No. 132,674; June 29; v. 275; p. 1015.
Leather. Kistler, Lesh & Company. Nos. 132,006–8; June 8; v. 275; p. 414.
Leather. Otto Meyer & Co. No. 132,020; June 8; v. 275; p. 415.

Leather. Rice & Hutchins. No. 132,790; June 29; v. 275; p. 1018.
Leather blackings and dressing. G. H. Capen. No. 132,319; June 22; v. 275; p. 816.
Leather-dressing. Whittemore Brothers Corporation. No. 132,277; June 15; v. 275; p. 621.
Leather-dressing. J. H. Yocum. No. 132,073; June 8; v. 275; p. 417.
Leather, finished and partly finished, and particularly picker-leather. The Ulmer Leather Company. No. 132,060; June 8; v. 275; p. 416.
Leather, Patent-. Perkins & McNeely. No. 132,779; June 29; v. 275; p. 1018.
Leather, Sole-. Ashland Leather Company. No. 131,955; June 8; v. 275; p. 413.
Leather, Sole-. Wilder & Company. No. 132,865; June 29; v. 275; p. 1021.
Lighting and ventilating devices. The Adams & Westlake Company. No. 131,950; June 8; v. 275; p. 413.
Lime, White-marble. O. King. No. 132,005; June 8; v. 275; p. 414.
Liniment for certain named ailments. R. C. Scafe. No. 132,512; June 22; v. 275; p. 822.
Liniment for swollen joints, rheumatism, headache, &c. N. G. Johnson. No. 132,425; June 22; v. 275; p. 818.
Liniment, Medicinal oil-. M. M. Wolff. No. 132,598; June 22; v. 275; p. 825.
Lockets, fobs, pendants, and ear-rings. Stern Brothers & Company. No. 132,258; June 15; v. 275; p. 620.
Logs. The Tropics Corporation. No. 132,839; June 29; v. 275; p. 1020.
Lotion, Hand-. H. B. Andell. No. 132,611; June 29; v. 275; p. 1013.
Lotion, Skin-. N. Erber. No. 132,368; June 22; v. 275; p. 818.
Lotions, cold-creams, ointments. J. W. Wilder. No. 132,588; June 22; v. 275; p. 825.
Lubricating-paste. Merrill-Hamilton Company. No. 132,199; June 15; v. 275; p. 618.
Lubricators, Force-feed. Smith & Egge Manufacturing Company. No. 132,533; June 22; v. 275; p. 823.
Lumber. Baker Lumber Co. No. 132,621; June 29; v. 275; p. 1013.
Lumber. Otis Manufacturing Co. No. 132,770; June 29; v. 275; p. 1018.
Lumber, timber, and logs, Unfinished. Weyerhaeuser Forest Products. No. 132,863; June 29; v. 275; p. 1021.
Luminous material, Self-. Radium Luminous Material Corporation. No. 132,495; June 22; v. 275; p. 822.
Luminous pendant. Pioneer Corporation. No. 132,033; June 8; v. 275; p. 415.
Lunches, Prepared. S. G. Leoffler, Jr. No. 132,011; June 8; v. 275; p. 415.
Macaroni sauce. Workman Packing Company. No. 132,071; June 8; v. 275; p. 416.
Machinery and parts thereof. Amplex Incorporated. No. 132,082; June 15; v. 275; p. 615.
Machinery and tools. Fulton Tool Works. No. 132,379; June 22; v. 275; p. 818.
Magnesium-oxychlorid cement and certain products made therefrom. Macanite Company of America. No. 132,017; June 8; v. 275; p. 415.
Malt and hop extract sold for the preparation of a cereal beverage. T. J. Wild. No. 132,278; June 15; v. 275; p. 621.
Mayonnaise. G. F. Von Holt. No. 132,852; June 29; v. 275; p. 1020.
Measuring and scientific appliances. Allied Machinery Company of America. No. 132,280; June 22; v. 275; p. 815.
Meats, Smoked, canned, and pickled. D. Cree. No. 132,657; June 29; v. 275; p. 1014.
Medical preparation for intestinal and urethral asepsis. E. O. Heinrich. No. 132,701; June 29; v. 275; p. 1016.
Medicated inhalant, a nerve and blood tonic, &c. V. Benedix. No. 132,299; June 22; v. 275; p. 815.
Medicinal compound for the treatment of colds, grippe, &c. E. V. Harrison. No. 132,405; June 22; v. 275; p. 819.
Medicinal compound for external treatment of hay-fever. Schieffelin & Co. No. 132,514; June 22; v. 275; p. 822.
Medicinal preparation. J. E. Jameson. No. 132,421; June 22; v. 275; p. 819.
Medicinal preparation for diseases of the stomach, liver, &c. H. L. Hicks. No. 132,412; June 22; v. 275; p. 819.
Medicinal preparation for nervous exhaustion, hysteria, &c. R. J. Strasenburgh Company. No. 132,824; June 29; v. 275; p. 1019.
Medicinal preparation for rheumatism. S. J. Hon. No. 132,705; June 29; v. 275; p. 1016.
Medicinal preparation used as a dentifrice. Brown's Tooth Powder Company. No. 132,309; June 22; v. 275; p. 816.
Medicinal preparations for certain skin disorders and as a blood-purifier. McKesson & Robbins. No. 132,449; June 22; v. 275; p. 820.
Medicinal preparations for external use for the treatment of rheumatism, sprains, &c. McKesson & Robbins. No. 132,446; June 22; v. 275; p. 820.
Medicinal preparations for external use in skin diseases, &c. McKesson & Robbins. No. 132,445; June 22; v. 275; p. 820.
Medicinal preparations for germicidal purposes, &c. McKesson & Robbins. No. 132,447; June 22; v. 275; p. 820.
Medicinal tonic, Reconstructive. Reliable Chemical Co. No. 132,499; June 22; v. 275; p. 822.
Medicine. A. L. Reusing. No. 132,500; June 22; v. 275; p. 822.
Medicine against lumbago, kidney trouble, and rheumatism. J. M. Wackrow. No. 132,572; June 22; v. 275; p. 824.
Medicine for certain named ailments. The Sentanel Remedies Company. No. 132,521; June 22; v. 275; p. 823.
Medicine for cramp, diarrhea, &c. Alpern and Blachschlager Chemical Company. No. 132,281; June 22; v. 275; p. 815.
Medicine for diseases of the eye. L. Cacciatore. No. 132,317; June 22; v. 275; p. 816.
Medicine for eczema. C. E. Swaisland. No. 132,558; June 22; v. 275; p. 824.
Medicine for indigestion, dyspepsia, and constipation. New Era Products Company. No. 132,755; June 29; v. 275; p. 1017.
Medicine for stomach, liver, &c. A. Flores. Nos. 132,679–80; June 29; v. 275; p. 1015.
Medicine for rheumatic ailments. E. L. Moadinger. No. 132,746; June 29; v. 275; p. 1017.
Medicine for use in the treatment of certain named diseases and affections. J. L. Herpich. No. 132,411; June 22; v. 275; p. 819.
Medicine for live stock. Sipe Conditioner Mfg. Co. No. 132,529; June 22; v. 275; p. 823.
Medicine for the liver and kidneys. C. D. Stowe. No. 132,548; June 22; v. 275; p. 823.
Medicine for use in the treatment of tuberculosis. R. J. K. Gore. No. 132,392; June 22; v. 275; p. 818.
Medicine, Tonic. P. C. Zieschang. No. 132,869; June 29; v. 275; p. 1021.
Medicines and pharmaceutical preparations, Certain named. H. A. Metz. No. 132,743; June 29; v. 275; p. 1017.
Medicines for the treatment of certain named diseases and affections. Humphreys Homeopathic Medicine Co. Nos. 132,415–6; June 22; v. 275; p. 819.
Metal hand-buckets. Allied Machinery Company of America. No. 132,078; June 15; v. 275; p. 615.
Metal-polish. C. M. Kimball Company. No. 132,004; June 8; v. 275; p. 414.
Milk, buttermilk, and cream. Daltex Milk Products Company. No. 132,123; June 15; v. 275; p. 616.
Milk, Condensed and evaporated. The Burt Olney Canning Company. No. 132,766; June 29; v. 275; p. 1018.
Millwork, fiber and gypsum wall-boards, &c. Sterling Lumber Co. No. 132,054; June 8; v. 275; p. 416.
Moisteners for gummed surfaces, Sanitary. Sengbusch Self-closing Inkstand Company. No. 132,520; June 22; v. 275; p. 823.
Moss, Louisiana. Republic Company. No. 132,789; June 29; v. 275; p. 1018.
Motor-vehicles, &c., Drive units and pliable drives for. S. W. Prussian. No. 132,038; June 8; v. 275; p. 415.
Mouth-wash. R. O. Leonard. No. 132,728; June 29; v. 275; p. 1016.
Mouth-wash. The Austen Cologne Company. No. 132,617; June 29; v. 275; p. 1013.
Music and music publications, Sheet-. D. E. Williams. No. 132,594; June 22; v. 275; p. 825.
Musical-instrument pedals. Lyon & Healy. No. 132,734; June 29; v. 275; p. 1017.
Musical instruments, Stringed. J. A. Bolander. No. 132,630; June 29; v. 275; p. 1013.
Nerve and bone liniment, &c. C. E. Weber. No. 134,584; June 22; v. 275; p. 825.
Newspaper, Old. Atterbury Bros, Inc. No. 131,956; June 8; v. 275; p. 413.
Notions. Waldes & Co. No. 132,576; June 22; v. 275; p. 824.
Notions. Waldes & Co. No. 132,854; June 29; v. 275; p. 1020.
Nuts and dried fruits. Habicht and Company. No. 131,991; June 8; v. 275; p. 414.
Nuts and dried fruits, Shelled, &c. Habicht and Company. Nos. 132,159–60; June 15; v. 275; p. 617.
Nuts, bolts, screws, and rivets. Upson Nut Company. No. 132,569; June 22; v. 275; p. 824.
Oil and nail-polishes, Manicuring-. E. Burnham. No. 132,310; June 22; v. 275; p. 816.
Oil-burners. C. A. Hammel. No. 132,696; June 29; v. 275; p. 1016.
Oil, Cod-liver. Scott & Bowne. No. 132,517; June 22; v. 275; p. 822.
Oil-cups. Lunkenheimer Company. No. 132,442; June 22; v. 275; p. 820.
Oil for sanctuary lamps and candles. B. Muller-Thym. No. 132,263; June 15; v. 275; p. 621.
Oil, Lubricating-. Sonard Green Lubricating Company. No. 132,536; June 22; v. 275; p. 823.
Oil, Lubricating-. F. P. Symonds. No. 132,829; June 29; v. 275; p. 1020.
Oil Machine-. Globe Grocery Stores, Inc. No. 132,154; June 15; v. 275; p. 617.
Oil, Olive-. Gamanos & Booskos. No. 131,982; June 8; v. 275; p. 414.
Oil, Olive-. I. Haber. No. 132,695; June 29; v. 275; p. 1015.
Oil, Olive-. Maggioros & Rousos. No. 132,735; June 29; v. 275; p. 1017.
Oil, Olive-. Musher & Company. No. 132,024; June 8; v. 275; p. 415.

Oil, Paint-. Para-Crude Oil Corp. No. 132,478; June 22; v. 275; p. 821.
Oil, Screw-cutting. Keystone Oil & Manufacturing Company. No. 132,719; June 29; v. 275; p. 1016.
Oils and greases, Lubricating-. Dearborn Chemical Company. No. 132,350; June 22; v. 275; p. 817.
Oils, Core-. Loos & Dilworth. No. 132,191; June 15; v. 275; p. 618.
Oils, Fuel-. J. J. Cowley. No. 132,120; June 15; v. 275; p. 616.
Oils, Fuel-. Toledo Fuel Company. No. 132,264; June 15; v. 275; p. 621.
Oils, gasolene, naphtha, &c. Clarendon Refining Company. No. 132,117; June 15; v. 275; p. 616.
Oils made from petroleum. Sinclair Refining Company. No. 132,248; June 15; v. 275; p. 620.
Oils of cotton-seed or the like for food purposes and chocolates. J. Weber. No. 132,858; June 29; v. 275; p. 1020.
Ointment and preparation for the treatment of rheumatism, colds, &c. Zarheum Chemical Co. No. 132,600; June 22; v. 275; p. 825.
Ointment for external blood-poisoning sores. Mrs. M. Odell. No. 132,763; June 29; v. 275; p. 1018.
Ointment for relief of hemorrhoids, &c., and salve for burns, &c. Howell and Ellis. No. 132,707; June 29; v. 275; p. 1016.
Ointment, Witch-hazel. Humphreys Homeopathic Medicine Co. No. 132,417; June 22; v. 275; p. 819.
Ointments, petroleum jelly, and refined lanolin. Atriken Chemical Works. No. 132,292; June 22; v. 275; p. 815.
Oleomargarin. Nut Grove Butter Company. No. 132,468; June 22; v. 275; p. 821.
Oleomargarin. The Great Atlantic and Pacific Tea Company. No. 131,986; June 8; v. 275; p. 414.
Orange-juice. E. C. McManus. No. 132,450; June 22; v. 275; p. 820.
Overalls. Carson, Pirie, Scott & Co. No. 132,321; June 22; v. 275; p. 816.
Overalls. Union Joe Overall Co. No. 132,567; June 22; v. 275; p. 824.
Overalls and pants. Large & Roomy Overall Mfg. Co. No. 132,187; June 15; v. 275; p. 618.
Overalls, coats, pants, &c. Pyramid Clothing Manufacturing Company. No. 132,492; June 22; v. 275; p. 822.
Overalls, jackets, jumpers, &c. E. D. Roemer. No. 132,233; June 15; v. 275; p. 619.
Overalls, play-suits, waists, &c., Boys'. H. Ostrowsky Co. No. 132,475; June 22; v. 275; p. 821.
Overcoating goods, Woolen. Worumbo Manufacturing Company. No. 132,072; June 8; v. 275; p. 417.
Oysters, shrimp, crabs, and fish. Fresh and canned. Charles Noble, Jr., Company. No. 132,759; June 29; v. 275; p. 1017.
Paint, Oil. Fort Wayne Drug Company. No. 132,374; June 22; v. 275; p. 818.
Paints and painters' materials. Standard Varnish Works. No. 132,253; June 15; v. 275; p. 620.
Paints and varnishes. Buffalo House Wrecking & Salvage Co. No. 132,100; June 15; v. 275; p. 615.
Paints, Roofing and metal. Philip Carey Manufacturing Company. No. 132,481; June 22; v. 275; p. 821.
Paper and cloth strips or tapes used as a substitute for twine, and moistening machines. New Products Company. No. 132,756; June 29; v. 275; p. 1017.
Paper and mailing-envelops, Writing-. Skillkrafters, Incorporated. No. 132,249; June 15; v. 275; p. 620.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 132,276; June 15; v. 275; p. 621.
Paper and stationery. Central Ohio Paper Company. No. 132,107; June 15; v. 275; p. 616.
Paper and stationery. Strathmore Paper Company. Nos. 132,825–7; June 29; v. 275; p. 1019.
Paper and stationery. The Central Ohio Paper Company. No. 132,638; June 29; v. 275; p. 1014.
Paper, Coated relief overlay-. A. M. Collins Manufacturing Company. No. 132,648; June 29; v. 275; p. 1014.
Paper cover for toilet-seats, Sanitary. J. I. Levy. No. 132,730; June 29; v. 275; p. 1017.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 132,629; June 29; v. 275; p. 1013.
Paper for wrapping tires and other articles. Angier Mechanical Laboratories. No. 132,612; June 29; v. 275; p. 1013.
Paper for writing, printing, and ledger purposes, Bond-. Neenah Paper Co. No. 132,214; June 15; v. 275; p. 619.
Paper, Gray filter-. H. Reeve Angel & Co. No. 132,787; June 29; v. 275; p. 1018.
Paper, Ledger-. Empire Paper Company. No. 132,137; June 15; v. 275; p. 617.
Paper, paper towels and napkins, &c., Printing, &c. The Central Ohio Paper Company. No. 132,108; June 15; v. 275; p. 616.
Paper, Printing and writing. American Writing Paper Company. No. 132,609; June 29; v. 275; p. 1013.
Paper, Reinforced. J. A. Greenlee. No. 132,398; June 22; v. 275; p. 818.
Paper, strawboards, shipping-tags, and envelops, Printing, writing, wrapping, and toilet. Zellerbach Paper Company. No. 132,868; June 29; v. 275; p. 1021.
Paper, Toilet-. George T. Johnson Co. No. 132,182; June 15; v. 275; p. 618.
Paper, Writing-. Gilbert Paper Company. No. 132,148; June 15; v. 275; p. 617.
Paper, Writing-. Whiting Paper Company. No. 132,586; June 22; v. 275; p. 825.
Paper, Writing and printing. American Writing Paper Co. No. 132,081; June 15; v. 275; p. 615.
Paper, Writing and wrapping, cardboard and paper mailing-envelops. M. & F. Schlosser. No. 132,799; June 29; v. 275; p. 1019.
Papers, and writing-tablets, Writing and printing. Osborn Paper Company. Nos. 132,768–9; June 29; v. 275; p. 1018.
Parasols and umbrellas. J. A. Migel, Inc. No. 132,204; June 15; v. 275; p. 619.
Paste paints and varnishes. Beaver Varnish Company. No. 132,296; June 22; v. 275; p. 815.
Pavements and paving material. Warren Brothers Company. No. 132,068; June 8; v. 275; p. 416.
Peanuts, Sugared. The Nut House. No. 132,762; June 29; v. 275; p. 1018.
Peanuts, Toasted. Charms Company. No. 132,641; June 29; v. 275; p. 1014.
Pearls and beads and necklaces, Synthetic. Gimbel Bros. No. 132,388; June 22; v. 275; p. 818.
Pearls, Synthetic. Lord & Taylor. No. 132,194; June 15; v. 275; p. 618.
Pen-points, Steel. The Turner & Harrison Pen Mfg. Co. No. 132,841; June 29; v. 275; p. 1020.
Pens, Fountain-. A. Harris. No. 132,699; June 29; v. 275; p. 1016.
Pens, Steel. C. Howard Hunt Pen Company. No. 132,708; June 29; v. 275; p. 1016.
Perfume, toilet water, rouge, and face-powder. E. Burnham. No. 132,311; June 22; v. 275; p. 816.
Perfumery. C. Davis. No. 132,661; June 29; v. 275; p. 1014.
Perspiration-counteractor. R. W. Bridgman. No. 132,307; June 22; v. 275; p. 816.
Petroleum jelly. Grand Union Tea Co. No. 132,689; June 29; v. 275; p. 1015.
Petrolatums, White. Atlantic Refining Company. No. 132,291; June 22; v. 275; p. 815.
Petticoats, dress-skirts, and underskirts. M. Reiss & Son. No. 132,498; June 22; v. 275; p. 822.
Petticoats, Women's. Elliot Petticoat Co. No. 132,669; June 29; v. 275; p. 1015.
Pharmaceutical preparation for chap, sunburn, and all skin irritation. A. B. C. Co. No. 132,742; June 29; v. 275; p. 1017.
Pharmaceutical preparations. The Pompeian Mfg. Co. No. 132,490; June 22; v. 275; p. 821.
Phenylcinchoninic acid. Morgenstern & Company. No. 132,748; June 29; v. 275; p. 1017.
Phonograph-record cleaner and polisher. N. C. Davis. No. 132,348; June 22; v. 275; p. 817.
Phonograph-records. The Brunswick-Balke-Collender Company. No. 132,631; June 29; v. 275; p. 1014.
Phonographs. O. Bachman. No. 132,619; June 29; v. 275; p. 1013.
Phonographs. United Phonograph Corporation. No. 132,843; June 29; v. 275; p. 1020.
Phonographs and phonograph-records. The Acme Phonograph Company of Kansas City. No. 132,603; June 29; v. 275; p. 1013.
Phonographs and talking-machines. A. Mannello. No. 132,736; June 29; v. 275; p. 1017.
Phonographs, phonograph-records, sound-boxes, and needles. The Belcanto Co. Nos. 132,091–2; June 15; v. 275; p. 615.
Phonographs, phonograph-records, sound-boxes, and needles. L. Rommel. No. 132,234; June 15; v. 275; p. 703.
Phonographs, Portable. C. E. Dodson. No. 132,666; June 29; v. 275; p. 1015.
Phonographs, talking-machines, sound-boxes and needles therefor. R. G. Mitchell. No. 132,744; June 29; v. 275; p. 1017.
Photographic chemicals and aniline dyes. G. L. Barrows. No. 132,624; June 29; v. 275; p. 1013.
Photographic film. Eastman-Kodak Company. No. 132,364; June 22; v. 275; p. 817.
Pianos. B. Shoninger Co. No. 132,807; June 29; v. 275; p. 1019.
Pianos and music-sheets therefor, talking-machines, phonographs, Player-. Crippen Company, The. No. 132,342; June 22; v. 275; p. 817.
Pianos, player-pianos, organs, phonographs, and phonograph-needles. Chipman Limited. No. 132,643; June 29; v. 275; p. 1014.
Picture or sheet mounting devices. A. W. Engel. No. 132,673; June 29; v. 275; p. 1015.
Pictures to be projected upon a screen, &c. Post Pictures Corporation. No. 132,491; June 22; v. 275; p. 822.
Pipes, traps, and drains, Composition for opening clogged. Chamberlain-Haber Chemical Co. No. 132,639; June 29; v. 275; p. 1014.
Pitch for use in breweries. Deutsche Conservierungsgesellschaft mit beschrankter Haftung. No. 132,126; June 15; v. 275; p. 616.
Placket, glove, and snap fasteners, buttons, clasps. Waldes & Co. No. 132,853; June 29; v. 275; p. 1020.
Platens, Preparation to preserve and renew. Deter-Sol Sales Company. No. 132,357; June 22; v. 275; p. 817.
Plumbers' supplies of earthenware. The Trenton Potteries Company. No. 132,058; June 8; v. 275; p. 416.
Plush piece goods. Philadelphia Pile Fabric Mills. No. 132,226; June 15; v. 275; p. 619.

Poles, Wooden telegraph, &c. W. H. Gilbert. No. 132,386; June 22; v. 275; p. 818.
Polish for leather goods, such as shoes, suitcases. Barton Belt Company. No. 131,931; June 1; v. 275; p. 199.
Polish for pianos, furniture, talking-machines, &c. J. Strauss. No. 132,550; June 22; v. 275; p. 823.
Polish for varnished and enameled surfaces. Cullen-Stevens Co. No. 132,346; June 22; v. 275; p. 817.
Polishing compositions for silver, glass, &c. The Clark Products Co. No. 132,646; June 29; v. 275; p. 1014.
Pomade for the scalp and hair. Jiffie-Straight Company. No. 132,422; June 22; v. 275; p. 819.
Popcorn, shelled and unpopped. E. G. Pierce. No. 132,781; June 29; v. 275; p. 1018.
Potatoes, Partially cooked and prepared. Condensed Food Company. No. 132,652; June 29; v. 275; p. 1014.
Powder and cream, toilet water, &c., Complexion. Depree Chemical Company. No. 132,356; June 22; v. 275; p. 817.
Powder and disinfectants, Lice-. J. S. Fleming. No. 132,678; June 29; v. 275; p. 1015.
Powders and rouges, Face-. Julius Schmid, Incorporated. No. 132,800; June 29; v. 275; p. 1019.
Powder, Baby-. Chas. Ammen Co. No. 132,286; June 22; v. 275; p. 815.
Powder-puffs. C. & K. Mfg. Co. No. 132,316; June 22; v. 275; p. 816.
Powders, Toilet. George Borgfeldt & Co. No. 132,302; June 22; v. 275; p. 815.
Preparation for the treatment of certain named diseases and affections. G. J. Horning. No. 132,413; June 22; v. 275; p. 819.
Preparation for the treatment of dandruff. Austinol Chemical Co. No. 132,618; June 29; v. 275; p. 1013.
Preparation for the treatment of la grippe, colds, and muscular pains. H. C. Wurm. No. 132,599; June 22; v. 275; p. 825.
Preparation for treatment of certain named ailments. S. D. Vansickle Estate. No. 132,848; June 29; v. 275; p. 1020.
Preparation for treatment of certain named diseases and affections, Tonic. P. D. Phillips. No. 132,482; June 22; v. 275; p. 821.
Preparation for use in the prevention and treatment of infectious diseases. G. Klemperer. No. 132,432; June 22; v. 275; p. 820.
Preparation for use in the treatment of bunions. R. A. Hemig. No. 132,871; June 29; v. 275; p. 1021.
Preparation of salvelike consistency for the alleviation of certain named ailments. Dr. Clark's Chemical Laboratories. No. 132,645; June 29; v. 275; p. 1014.
Preparation to be administered internally to horses and other live stock for scratches, &c. Kewley Bros. No. 132,429; June 22; v. 275; p. 819.
Preparation used as a deodorant and relief for excessive perspiration. R. C. Lawry. No. 132,505; June 22; v. 275; p. 822.
Preparation used as a sweetening-syrup for beverages. The Nulomoline Company. No. 132,219; June 15; v. 275; p. 619.
Preparations for repelling mosquitos and healing their bites. McKesson & Robbins. No. 132,448; June 22; v. 275; p. 820.
Preparations for the relief of la grippe. Vancouver Drug Company. No. 132,570; June 22; v. 275; p. 824.
Preparations for treatment of eczema, &c. U. G. McClure. No. 132,575; June 22; v. 275; p. 824.
Preservative compound for meats, fish, and fowl. Price Compound Company. No. 132,782; June 29; v. 275; p. 1018.
Pyroxylin compound. George Borgfeldt & Co. No. 131,963; June 8; v. 275; p. 413.
Quinin ethyl carbonate. Takamine Laboratory. No. 132,830; June 29; v. 275; p. 1020.
Radiator shields, House-heating-. Sodemann Heat & Power Co. No. 132,814; June 29; v. 275; p. 1019.
Radiator-traps. The Trane Company. No. 132,838; June 29; v. 275; p. 1020.
Radiators for internal-combustion engines. United States Cartridge Company. Nos. 132,061–2; June 8; v. 275; p. 416.
Ration, Dairy. The Ubiko Milling Company. No. 132,059; June 8; v. 275; p. 416.
Razor-strops. Gifford-Weiffenbach Company. No. 132,387; June 22; v. 275; p. 818.
Razors. L. Baer. No. 132,087; June 15; v. 275; p. 615.
Razors, Safety-. Gillette Safety Razor Company. Nos. 132,150–2; June 15; v. 275; p. 617.
Reamers, metal-cutting drills, &c. Chrobaitic Tool Company. No. 132,336; June 22; v. 275; p. 817.
Reflectors, Glass. National-X Ray Reflector Co. No. 132,027; June 8; v. 275; p. 415.
Refrigerating and ice-making systems and parts thereof. York Manufacturing Company. No. 131,947; June 1; v. 275; p. 199.
Remedy and tonic, Malarial. Burwell & Dunn Co. No. 132,313; June 22; v. 275; p. 816.
Remedy for certain named ailments, and toilet preparations. Omego Chemical Company. No. 132,470; June 22; v. 275; p. 821.
Remedy for lung trouble. B. M. Desch. No. 132,664; June 29; v. 275; p. 1015.
Remedy for pyorrhea. N. Farmakis. No. 132,369; June 22; v. 275; p. 818.
Remedy, Pile. O. Wingate. No. 132,597; June 22; v. 275; p. 825.
Ribbon in the piece, Floral. J. E. Cannaday. No. 132,103; June 15; v. 275; p. 615.
Ribbons in the piece. Johnson, Cowdin and Co. No. 132,181; June 15; v. 275; p. 618.
Ribbons in the piece. Johnson, Cowdin and Co. No. 132,423; June 22; v. 275; p. 819.
Rice. William S. Scull Company. No. 132,048; June 8; v. 275; p. 416.
Rice wafers. Tee-O Mfg. Co. No. 132,833; June 29; v. 275; p. 1020.
Ring and ring mountings. Stern Brothers & Company. No. 132,255; June 15; v. 275; p. 620.
Roofing, Artificially-prepared. Pittsburgh Plate Glass Company. No. 132,035; June 8; v. 275; p. 415.
Roofing, shingles, &c., Prepared sheet-. The Beaver Company. Nos. 132,626–7; June 29; v. 275; p. 1013.
Roofing, wall-board, and building-papers, Composition. Standard Paint Company. No. 132,051; June 8; v. 275; p. 416.
Root-beer extract, orange, wild-cherry, and grape phosphates. Globe Grocery Stores. No. 132,153; June 15; v. 275; p. 617.
Rubber and rubber-composition heels. Panther Rubber Manufacturing Company. No. 132,477; June 22; v. 275; p. 821.
Rubber heels. T. M. Evans. No. 132,138; June 15; v. 275; p. 617.
Rubber heels for boots and shoes. Plymouth Rubber Company. No. 132,487; June 22; v. 275; p. 821.
Rubber material, Composition. The Marathon Tire and Rubber Co. No. 132,741; June 29; v. 275; p. 1017.
Rubber or composition soles, heels, and taps. Fiber Products Co. No. 132,142; June 15; v. 275; p. 617.
Rubber soles and heels. Foster Rubber Company. No. 132,375; June 22; v. 275; p. 818.
Rubber sponges. The Miller Rubber Co. No. 132,206; June 15; v. 275; p. 619.
Rust-preventive, Oil. E. F. Houghton & Co. No. 132,171; June 15; v. 275; p. 618.
Salad-dressing. M. Steinberg. No. 132,254; June 15; v. 275; p. 260.
Sal-ammoniac and soldering fluid. Special Chemicals Company. No. 132,539; June 22; v. 275; p. 823.
Salve for certain named ailments. Patton-Jones. No. 132,776; June 29; v. 275; p. 1018.
Salve for treatment of certain named diseases and affections. E. J. Albrecht. No. 132,279; June 22; v. 275; p. 815.
Salve for use in the treatment of the scalp. A. Sims. No. 132,808; June 29; v. 275; p. 1019.
Salve, Menthol. Davis & Lawrence Company. No. 132,347; June 22; v. 275; p. 817.
Salve used in the treatment of burns, boils, &c. J. F. Tete. No. 132,561; June 22; v. 275; p. 824.
Sanitary aerating and protecting device. R. I. Gill. No. 131,983; June 8; v. 275; p. 414.
Saponaceous preparation for the complexion. C. W. Albright. No. 131,951; June 8; v. 275; p. 413.
Sardines. Globe Canning Co. No. 132,389; June 22; v. 275; p. 818.
Saws. Simonds Manufacturing Company. No. 132,245; June 15; v. 275; p. 620.
Saws. Simonds Manufacturing Company. No. 132,528; June 22; v. 275; p. 823.
Saws, saw-frames, metal-cutting band-saw machines. Napier Saw Works. No. 132,211; June 15; v. 275; p. 619.
Seed, Garden-. Crabbs Reynolds Taylor Co. No. 132,122; June 15; v. 275; p. 616.
Seeds. C. S. Osburn & Co. No. 132,474; June 22; v. 275; p. 821.
Seeds, cut flowers, plants, &c. Duluth Floral Company. No. 132,132; June 15; v. 275; p. 616.
Seeds, Field-. N. Wertheimer & Sons. No. 132,859; June 29; v. 275; p. 1020.
Seeds, Oat-. Pittman & Harrison Company. No. 132,034; June 8; v. 275; p. 415.
Shades and reflectors for lighting-fixtures, Metallic. L. Plaut & Co. No. 132,036; June 8; v. 275; p. 415.
Shampoos, Liquid and paste. The Tipp Whip Company. No. 132,836; June 29; v. 275; p. 1020.
Shears or scissors, Electric. Sperry Gyroscope Company. No. 132,540; June 22; v. 275; p. 823.
Sheeting. Bencoe Importing and Exporting Co. No. 132,298; June 22; v. 275; p. 815.
Shirts and overalls, Work-. Industrial Garment Co. No. 132,419; June 22; v. 275; p. 819.
Shirts and pajamas, Men's negligée. Star Shirt Manufacturing Company. No. 132,543; June 22; v. 275; p. 823.
Shirts and underwear for men, Dress, negligée, and work. Weinberg & Weinberg. No. 132,272; June 15; v. 275; p. 621.
Shirts, Dress, negligée, and work. Waltham Shirt Co. No 132,580; June 22; v. 275; p. 824.
Shirts, Men's dress and negligée. Emerson Shirt Co. Inc. No. 132,136; June 15; v. 275; p. 617.
Shoe dressing and cleanser. Import Drug Specialties Company. No. 132,713; June 29; v. 275; p. 1016.
Shoe-laces. Dodson, Fisher, Brockmann Co. No. 131,977; June 8; v. 275; p. 414.

Shoe-laces. Penn Rivet Corporation. No. 132,223; June 15; v. 275; p. 617.
Shoes. E. C. Skuffer Shoe Co. No. 132,531; June 22; v. 275; p. 823.
Shoes, Babies' kid-leather washable. Gloversville Welt Co. No. 132,155; June 15; v. 275; p. 617.
Shoes, Canvas outing-. Apsley Rubber Company. No. 132,287; June 22; v. 275; p. 815.
Shoes, Leather and fabric. L. Wiesner. No. 132,587; June 22; v. 275; p. 825.
Shoes, Orthopedic, &c. Podiatry Shoe Company. No 132,489; June 22; v. 275; p. 821.
Silk and silk-mixture fabrics. Cheney Brothers. No. 132,329; June 22; v. 275; p. 816.
Silk and silk-mixture fabrics in the piece. Cheney Brothers. Nos. 132,111–12; June 15; v. 275; p. 616.
Silk fabric and ribbons in the piece. Hanselmann-Johnson Company. No. 132,404; June 22; v. 275; p. 819.
Silk fabrics in the piece. Cheney Brothers. No. 132,113; June 15; v. 275; p. 616.
Silk piece goods. W. T. Dickson. No. 132,128; June 15; v. 275; p. 616.
Silk piece goods. Haas Brothers Fabries' Corporation. No. 132,158; June 15; v. 275; p. 617.
Silk piece goods. John H. Meyer Silk Mills Co. Nos. 132,200–1; June 15; v. 275; pp. 618–19.
Silk piece goods. J. A. Migel, Inc. No. 132,021; June 8; v. 275; p. 415.
Silk piece goods. Puritan Silks Corporation. No. 132,231; June 15; v. 275; p. 619.
Silk piece goods. Sunset Silk Mills. No. 131,945; June 1; v. 275; p. 199.
Silks in the piece. Lindeke, Warner & Sons. No. 132,190; June 15; v. 275; p. 618.
Skin-astringent. P. Graham. No. 132,688; June 29; v. 275; p. 1015.
Skin-emollient. L. Friend. No. 132,377; June 22; v. 275; p. 818.
Skins, Chamois-. A. Hart. No. 132,406; June 22; v. 275; p. 819.
Skins, Finished. Standard Kid Mfg. Co. No. 132,251; June 15; v. 275; p. 620.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 132,141; June 15; v. 275; p. 617.
Snap and placket fasteners. Federal Snap Fastener Corporation. No. 132,677; June 29; v. 275; p. 1015.
Snap-fasteners. Penn Rivet Corporation. No. 132,032; June 8; v. 275; p. 415.
Soap. Alex. D. Shaw & Co. No. 132,243; June 15; v. 275; p. 620.
Soap. The Cincinnati Soap Co. No. 132,644; June 29; v. 275; p. 1014.
Soap. Howard Bros. Chemical Co. No. 132,172; June 15; v. 275; p. 618.
Soap. Huntington Chemical Company. No. 132,709; June 29; v. 275; p. 1016.
Soap. James S. Kirk & Company. No. 132,430; June 22; v. 275; p. 820.
Soap. Louisville Food Products Company. No. 132,440; June 22; v. 275; p. 820.
Soap. National Sulfern Soap Co. No. 132,026; June 8; v. 275; p. 415.
Soap. Procter and Gamble Company. No. 132,037; June 8; v. 275; p. 415.
Soap. The Procter & Gamble Company. Nos. 132,228–9; June 15; v. 275; p. 619.
Soap, Powdered. Elgin National Soap Company. No. 132,135; June 15; v. 275; p. 617.
Soap, Skin-. Lamar, Taylor & Riley Drug Co. No. 132,434; June 22; v. 275; p. 820.
Soap, soap powders, cleansers. Kildirt Soap Products Company. No. 132,720; June 29; v. 275; p. 1016.
Soap, Toilet. James S. Kirk Company. No. 132,721; June 29; v. 275; p. 1016.
Soaps, shaving preparations. Remiller Company. No. 132,041; June 8; v. 275; p. 416.
Soaps, Toilet. The Armand Company. No. 132,085; June 15; v. 275; p. 615.
Soaps, Toilet. Frederick Stearns & Co. No. 132,053; June 8; v. 275; p. 416.
Soda-ash or anhydrous sodium carbonate. California Alkali Co. No. 132,635; June 29; v. 275; p. 1014.
Soda used for cleaning and washing, Neutral. California Alkali Co. No. 132,634; June 29; v. 275; p. 1014.
Soda-water and non-alcoholic syrups used in the making of soft drinks. E. H. Dessauer. No. 132,125; June 15; v. 275; p. 616.
Solder. E. Charland. No. 132,110; June 15; v. 275; p. 616.
Solder. W. A. Day. No. 132,349; June 22; v. 275; p. 817.
Sound-records. T. L. Shaw. No. 132,804; June 29; v. 275; p. 1019.
Sounds, Instruments for producing comical imitative. B. Van Horn. No. 132,846; June 29; v. 275; p. 1020.
Spark-plugs. G. H. Greenhalgh. No. 132,692; June 29; v. 275; p. 1015.
Spark-plugs. Marmon Chicago Company. No. 132,197; June 15; v. 275; p. 618.
Spark-plugs. National Spark Plug Company. No. 132,212; June 15; v. 275; p. 619.
Spectacles and eyeglasses, Frames of. Bay State Optical Company. No 132,294; June 22; v. 275; p. 815.
Starters, Impulse-. Eisemann Magneto Corporation. No. 132,134; June 15; v. 275; p. 616.
Stationery articles, eyelets for fastening purposes and instruments for inserting same. Machine Appliance Corporation. No. 132,195; June 15; v. 275; p. 618.
Steel and iron, Structural. New England Structural Company. No. 132,464; June 22; v. 275; p. 821.
Steel bars, rods, billets, &c. Crucible Steel Company of America. No. 132,345; June 22; v. 275; p. 817.
Steel, Structural. McClintic-Marshall Products Company. No. 132,014; June 8; v. 275; p. 415.
Steel, Tool-. Hercules Electric Steel Corporation. No. 132,703; June 29; v. 275; p. 1016.
Steering device for motor-vehicles, Automatic. T. F. Robinson. No. 132,042; June 8; v. 275; p. 416.
Stone for scouring kitchen utensils, Rubbing-. E. Mueller. No. 132,209; June 15; v. 275; p. 619.
Stoves, Coal-. Delaware Electric & Supply Co. No. 131,973; June 8; v. 275; p. 413.
Stoves, ovens, plates, Gas. The L. A. Athoff Mfg. Co. No. 131,954; June 8; v. 275; p. 413.
Stoves, ranges, and heaters. Steiger & Kerr Stove & Foundry Co. No. 132,819; June 29; v. 275; p. 1019.
Stucco, Composition for use as. American Magnesia Products Co. No. 132,080; June 15; v. 275; p. 615.
Sugar tablets and lozenges. American Confectionery Syndicate. No. 132,283; June 22; v. 275; p. 815.
Suits and coats for women. Bernstein, Baum, Da Costa Company. No. 132,301; June 22; v. 275; p. 815.
Suits, Boys'. L. Straus. No. 132,551; June 22; v. 275; p. 824.
Suits, coats, and pants. American Novelty-Wash Suit Co. No. 132,285; June 22; v. 275; p. 815.
Suits, overcoats, coats, vests, and trousers, Men's and boys'. Siff Bros. Co. No. 132,525; June 22; v. 275; p. 823.
Surgical dressing, Plastic. Saxo Chemical Co. No. 132,510; June 22; v. 275; p. 822.
Suspenders and dress-shields. McDonald Bros. Co. No. 132,015; June 8; v. 275; p. 415.
Suspenders, garters, and belts. Otis Suspender Company. No. 132,030; June 8; v. 275; p. 415.
Sweepers, Electric suction-. Hoover Suction Sweeper Company. No. 132,170; June 15; v. 275; p. 618.
Switch for ignition systems, Electrical testing. Scott Corporation. No. 132,518; June 22; v. 275; p. 822.
Syrup and sugar and food-flavoring compound, Compound table-. F. N. Argo. No. 131,954; June 8; v. 275; p. 413.
Syrup, Food-. F. G. Stewart. No. 132,055; June 8; v. 275; p. 416.
Syrup for making non-alcoholic beverages. C. A. Fowler. No. 132,145; June 15; v. 275; p. 617.
Syrup, Malt. C. T. Zirkle. No. 132,601; June 22; v. 275; p. 825.
Syrup, Non-intoxicating fruit-. Celro-Kola Co. No. 132,105; June 15; v. 275; p. 616.
Syrup, Orange table-. Southern California Products Company. No. 132,537; June 22; v. 275; p. 823.
Syrup, Table. J. S. Bierhaus. No. 132,628; June 29; v. 275; p. 1013.
Syrup used as a flavor for a soft drink, Concentrated. Mickey Company. No. 132,460; June 22; v. 275; p. 821.
Syrup used for food. G. M. Allen. No. 132,604; June 29; v. 275; p. 1013.
Tablet, Medicinal. M. A. Loyer. No. 132,732; June 29; v. 275; p. 1017.
Tablets, Medicated. C. S. Mills. No. 132,461; June 22; v. 275; p. 821.
Tablets, Medicinal. The Maltbie Chemical Company. No. 132,452; June 22; v. 275; p. 820.
Tablets, Memorandum. R. J. Bell. No. 132,297; June 22; v. 275; p. 815.
Tablets for colds, chills, and fever, &c., Medicinal. J. W. Sheffield. No. 132,805; June 29; v. 275; p. 1019.
Tackle and pulley blocks. Marine Decking & Supply Co. No. 132,454; June 22; v. 275; p. 820.
Talking-machines, Diaphragms for sound-boxes used on. F. V. V. De Myer. No. 132,845; June 29; v. 275; p. 1020.
Talking-machines, phonographs, &c. Sonora Phonograph Corporation. No. 132,815; June 29; v. 275; p. 1019.
Talking-machine records. O. R. S. Company. No. 132,784; June 29; v. 275; p. 1018.
Tea. Great Atlantic & Pacific Tea Company. No. 132,396; June 22; v. 275; p. 818.
Tea and rice. William S. Scull Company. No. 132,802; June 29; v. 275; p. 1019.
Tea syrup for making tea, Concentrated. I. C. T. Products Company. No. 132,176; June 15; v. 275; p. 618.
Teas. Carter, Macy & Co. No. 131,968; June 8; v. 275; p. 413.
Teas and coffees. F. C. Tripi & Co. No. 132,565; June 22; v. 275; p. 824.
Paper and mailing envelops, Writing, printing, bond and ledger. New York Oversea Co. No. 132,757; June 29; v. 275; p. 1017.
Telegraph-keys, Practice. D. G. White. No. 132,585; June 22; v. 275; p. 825.
Textile goods in the piece. James F. White & Co. No 132,274; June 15; v. 275; p. 621.
Tiles, &c., Composition floor-. International Cork Company. No. 132,178; June 15; v. 275; p. 618.

Timber and lumber. The Tropics Corporation. No. 132,840; June 29; v. 275; p. 1020.
Tire-filling compound. Middletown Accessory-Laboratories Company. No. 132,203; June 15; v. 275; p. 619
Tires, Outer casings and inner tubes for pneumatic automobile-. Victor Rubber Company. No. 132,075; June 8; v. 275; p. 417.
Tires, Rubber. Majestic Tire & Rubber Co. No. 132,451; June 22; v. 275; p. 820.
Toilet extracts. E. Gal, Sociedad en Comandita. No. 132,077; June 15; v. 275; p. 615.
Toilet lotions. E. Gal, Sociedad en Comandita. No. 132,076; June 15; v. 275; p. 615.
Toilet preparations. Hermo Co. No. 132,704; June 29; v. 275; p. 1016.
Toilet preparations. Leon Gawurin. Nos. 132,381–2; June 22; v. 275; p. 818.
Toilet preparations. Talcum Puff Company. No. 132,559; June 22; v. 275; p. 824.
Toilet seats, Sanitary cover. M. Fraser. No. 132,683; June 29; v. 275; p. 1015.
Toilet water. Wildroot Co. No. 132,866; June 29; v. 275; p. 1021.
Tonic and an antiseptic powder, Liquid. C. R. Spicer. No. 132,541; June 22; v. 275; p. 823.
Tonic and blood medicine. Parzon Pharmacal Company. No. 132,480; June 22; v. 275; p. 821.
Tonic compound, Liquid heart-. William S. Merrell Company. No. 132,458; June 22; v. 275; p. 820.
Tonic laxative for constipation, headache, &c. J. W. Duffee Mfg. Co. No. 132,360; June 22; v. 275; p. 817.
Tonic, Reconstructive. Bosak Manufacturing Co. Nos. 132,303–5; June 22; v. 275; pp. 815–16.
Tonic, Stomach-. M. D. Rybowski. No. 132,795; June 29; v. 275; p. 1018.
Tooth-paste. A. H. de Goenaga. No. 132,351; June 22; v. 275; p. 817.
Tooth-paste. J. J. Phillips. No. 132,780; June 29; v. 275; p. 1018.
Tooth-powders, pastes, and mouth-washes. J. N. Thibodeaux. No. 132,562; June 22; v. 275; p. 824.
Toy velocipedes. Buster Manufacturing Company. No. 132,633; June 29; v. 275; p. 1014.
Tractors designed for use in hauling agricultural implements, &c. Samson Tractor Company. No. 132,508; June 22; v. 275; p. 822.
Tractors, Farm-. Martin Scott Engineering Co. No. 132,456; June 22; v. 275; p. 820.
Trailers, semitrailers, and automotive vehicles. Day-Elder Motors Corporation. Nos. 132,662–3; June 29; v. 275; p. 1015.
Treatment of influenza. Dry composition for the. J. R. Smith. No. 132,811; June 29; v. 275; p. 1019.
Trousers. Standard Manufacturing Company. No. 132,542; June 22; v. 275; p. 823.
Trucks and accessories, Electric. W. C. Brinton. No. 131,964; June 8; v. 275; p. 413.
Trucks, Motor-. H. S. Jarvis. No. 132,002; June 8; v. 275; p. 414.
Tuning-pins. American Musical Supply Co. No. 132,606; June 29; v. 275; p. 1013.
Turpentine. A/S Det Almindelige Handelskompagni. No. 132,403; June 22; v. 275; p. 819.
Typewriter-ribbons, carbon-paper, and stencil-ink. C. E. Archbald. No. 132,614; June 29; v. 275; p. 1013.
Umbrellas. Weinberg & Bisbing. No. 132,271; June 15; v. 275; p. 621.
Underwear for men. H. B. Ferguson. No. 132,370; June 22; v. 275; p. 818.
Underwear, Ladies' flat. F. Newmark. No. 132,216; June 15; v. 275; p. 619.
Underwear, Ladies' flat. F. Newmark. No. 132,465. June 22; v. 275; p. 821.
Valves, Beverage-dispensing. C. M. Earl. No. 132,363; June 22; v. 275; p. 817.
Varnish composition. Minwax Company. No. 132,207; June 15; v. 275; p. 619.
Varnish-paint. The Ault & Wiborg Co. No. 131,957; June 8; v. 275; p. 413.
Vehicle-tops. The General Top Company. No. 132,687; June 29; v. 275; p. 1015.
Veil, Elastic. Ludewig & Co. No. 131,943; June 1; v. 275; p. 199.
Vulcanized fiber. National Fibre and Insulation Company. No. 132,025; June 8; v. 275; p. 415.
Waists, and collars, Ladies'. J. & M. Cohn, Inc. No. 132,338; June 22; v. 275; p. 817.
Washing compound. H. W. Arnor. No. 132,288; June 22; v. 275; p. 815.
Washing compound. P. W. Drackett and Sons Company. No. 132,359; June 22; v. 275; p. 817.
Watch-movements. National Watch Company. No. 132,213; June 15; v. 275; p. 619.
Watches. The D. Gruen Sons and Company. No. 132,157; June 15; v. 275; p. 617.
Watches and clocks. Tiffany & Company. No. 132,262; June 15; v. 275; p. 620.
Watches, watch-movements and dials, watchcases. I. Ollendorff Company. No. 132,220; June 15; v. 275; p. 619.
Water, Concentrated natural mineral-well. E. E. Dismuke. No. 132,129; June 15; v. 275; p. 616.
Waterproof fabrics. J. Scarlett. No. 132,797; June 29; v. 275; p. 1019.
Waterproof goods. Union City Manufacturing Co. No. 132,566; June 22; v. 275; p. 824.
Waterproof roofings and building-papers. The Paraffine Companies. No. 132,772; June 29; v. 275; p. 1018.
Waterproofed textile fabric. Duratex Company. No. 132,362; June 22; v. 275; p. 817.
Wax, ceresin, japan wax, &c., Paraffin-. Smith & Nichols, Incorporated. No. 132,812; June 29; v. 275; p. 1019.
Wax-polish. Marshall Oil Company. No. 132,455; June 22; v. 275; p. 820.
Webbing, Cotton. American Textile Banding Company. No. 131,930; June 1; v. 275; p. 199.
Wheel, Vehicle-. Jaxon Steel Products Company. No. 132,715; June 29; v. 275; p. 1016.
Wheels, Felt polishing-. Eastern Felt Company. No. 131,978; June 8; v. 275; p. 414.
Wind instrument, Novelty. G. W. Stewart. No. 132,820; June 29; v. 275; p. 1019.
Window-cleaning composition. E. W. Bond. No. 132,099; June 15; v. 275; p. 615.
Wood-pulp boards and blocks. International Insulation Company. No. 132,000; June 8; v. 275; p. 414.
Woolen dress and fancy cotton piece goods. Nacoma Textile Co. No. 132,210; June 15; v. 275; p. 619.
Worm and insect exterminator. W. Ken. No. 132,427; June 22; v. 275; p. 819.
Worm-expeller, horse, cattle, and hog tonics, and hog-dip. H. B. Bernard. No. 132,300; June 22; v. 275; p. 815.
Worsted cloth in the piece. Benson Brothers. No. 132,096; June 15; v. 275; p. 615.
Wrenches. C. E. Wakefield. No. 135,574; June 22; v. 275; p. 824.
Writing-paper and envelops. George B. Hurd & Co. No. 132,173; June 15; v. 275; p. 618.
Yarns, Worsted fingering-. Walker Yarn Company. No. 132,066; June 8; v. 275; p. 416.

ALPHABETICAL LIST OF LABELS.

"Armory Brand." (For Various Items of Dried Products—Namely, Apricots, Peaches, Prunes, and Plums.) Walker-Matteson Company. No. 21,898; June 29; v. 275; p. 1022.
"Atmore's Make-A-Cake." (For Preparation for Making Cake.) Atmore & Son, Inc. No. 21,876; June 29; v. 275; p. 1022.
"Baker's Toasted Coco-Nutlets." (For Packaged Cocoanut.) The Franklin Baker Company. No. 21,885; June 29; v. 275; p. 1022.
"Ballard Biscuit Flour." (For Flour.) Ballard & Ballard Co. No. 21,879; June 29; v. 275; p. 1022.
"Ballard Buckwheat." (For Buckwheat.) Ballard & Ballard Co. No. 21,877; June 29; v. 275; p. 1022.
"Ballard Pancake." (For Flour.) Ballard & Ballard Co. No. 21,878; June 29; v. 275; p. 1022.
"Carb-Out Carbon Remover." (For Lubricating-Solvent and Carbon-Remover.) J. H. Mitchell. No. 21,889; June 29; v. 275; p. 1022.
"Chevonet Hair Net." (For Hair-Nets.) A. A. West. No. 21,901; June 29; v. 275; p. 1022.
"Co-Operative Evaporated Milk." (For Evaporated Milk.) Co-Operative Food Products Association. No. 21,881; June 29; v. 275; p. 1022.
"Crenshaw's Superior." (For Butter.) Crenshaw Bros. Produce Co. Inc. No. 21,882; June 29; v. 275; p. 1022.
"Faultless Balloons.' (For Toy Rubber Balloons.) The Faultless Rubber Company. Nos. 21,883–4; June 29; v. 275; p. 1022.
"GenCo Cola." (For a Non-Alcoholic Beverage.) General Fruit & Syrup Co. No. 21,875; June 22; v. 275; p. 826.
"Harvard Men's Finest Underwear." (For Men's Underwear.) I. L. Marrow. No. 21,887; June 29; v. 275; p. 1022.
"Harvard Boys' Finest Underwear." (For Boys' Underwear.) I. L. Marrow. No. 21,888; June 29; v. 275; p. 1022.
"Marvel." (For Oranges.) Placentia Mutual Orange Association. No. 21,892; June 29; v. 275; p. 1022.
"Miracle." (For Beverages.) Miracle Company. No. 21,890; June 29; v. 275; p. 1022.
"Nelson's." (For Canned Fruit.) O. A. Nelson. No. 21,891; June 29; v. 275; p. 1022.
"Pargo Brand Sweet Corn." (For Cans Containing Sweet Corn.) C. A. Windholz. No. 21,873; June 8; v. 275; p. 418.
"Rainbow Georgia Cane." (For Syrup.) J. Ralston Cargill. No. 21,880; June 29; v. 275; p. 1022.
"Richmond." (For Evaporated Milk, Unsweetened.) Utah Condensed Milk Co. No. 21,897; June 29; v. 275; p. 1022.
"Roxana Belle Non-Alcoholic Imitation Scuppernong Wine." (For Roxana Belle Imitation Scuppernong-Wine.) Southern Food Products Co. No. 21,896; June 29; v. 275; p. 1022.
"Royal Lemon." (For a Cleaner.) Royal Lemon Products Co. No. 21,894; June 29; v. 275; p. 1022.
"Savory." (For Canned Tomatoes.) C. A. Loockerman. No. 21,886; June 29; v. 275; p. 1022.
"Sugarloaf." (For Candy.) Schuler Chocolate Factory. No. 21,895; June 29; v. 275; p. 1022.
"The Butter that Betters the Bread." (For Butter.) J. Poehlman & Sons. No. 21,893; June 29; v. 275; p. 1022.
"The Famous Shenandoah Valley Brand." (For Pork Sausage.) H. L. Bushong. No. 21,874; June 22; v. 275; p. 826.
"The Vanity Hair Net." (For Hair-Nets.) A. A. West. No. 21,900; June 29; v. 275; p. 1022.
"Ward's De Luxe Cakes." (For Cakes.) Ward Baking Company. No. 21,899; June 29; v. 275; p. 1022.
"West Gold Seal Hair Net." (For Hair-Nets.) A. A. West. No. 21,902; June 29; v. 275; p. 1022.

ALPHABETICAL LIST OF PRINTS.

"How Washing Your Face Makes Rouge and Powder Harmless." (For Soap.) The Palmolive Company. No. 5,260; June 29; v. 275; p. 1022.
"Laxatolds." (For Laxative Cathartic.) J. L. Farnum. No. 5,259; June 29; v. 275; p. 1022.
"Rubberset." (For Tooth, Lather, and Hair Brushes.) Rubber & Celluloid Products Co. No. 5,264; June 29; v. 275; p. 1022.
"Speed Wagon." (For Motor-Trucks.) Reo Motor Car Co. No. 5,262; June 29; v. 275; p. 1022.
"'Speed Wagon' an Exclusive Reo Appellation." (For Motor-Trucks.) Reo Motor Car Co. No. 5,263; June 29; v. 275; p. 1022.
"Tell Me the Truth. (For Soap.) The Palmolive Company. No. 5,261; June 29; v. 275; p. 1022.
"Will Your Car Do This?" (For Brake-Lining.) Thermoid Rubber Company. No. 5,265; June 29; v. 275; p. 1022.

DISCLAIMERS.

Vehicle-bumper support. J. Berg. No. 1,240,167; date of patent Sept. 18, 1917; disclaimer filed June 5, 1920; v. 275; p. 627.

Hair on the head, Apparatus for waving natural. C. Nessler. No. 1,052,166; date of patent Feb. 4, 1913; disclaimer filed June 9, 1920; v. 275; p. 627.

CLASSIFICATION OF PATENTS

JUNE, 1920.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 6: 1,341,821
1,344,157
7: 1,344,441
15: 1,343,561
19: 1,344,781
32: 1,344,305
39: 1,342,415
41: 1,344,290
44: 1,342,110
45: 1,344,715
50: 1,343,289
2— 15: 1,342,168
32: 1,342,924
41: 1,342,009
1,342,906
53: 1,342,166
62: 1,341,580
63: 1,342,106
73: 1,344,004
74: 1,342,054
79: 1,342,032
84: 1,342,796
1,343,623
1,344,248
93: 1,342,566
95: 1,344,011
108: 1,342,132
111: 1,341,679
116: 1,342,277
119: 1,342,897
1,342,898
122: 1,345,223
124: 1,343,166
134: 1,344,075
142: 1,343,035
144: 1,341,716
1,342,010
1,342,188
1,343,038
151: 1,343,371
187: 1,344,998
188: 1,344,709
3— 2: 1,343,297
1,343,298
11: 1,343,617
12: 1,344,357
4— 1: 1,342,843
5: 1,343,261
1,343,890
13: 1,342,474
17: 1,343,730
18: 1,342,505
21: 1,342,716
22: 1,342,016
26: 1,343,892
32: 1,343,287
1,343,830
33: 1,344,531
35: 1,342,046
1,342,287
39: 1,343,406
1,344,442
5— 3: 1,343,881
12: 1,343,593
1,343,985
13: 1,343,167
14: 1,342,351
15: 1,343,357
18: 1,344,188
22: 1,344,450
26: 1,341,714
29: 1,343,565
37: 1,344,995
40: 1,344,636
41: 1,341,899
1,344,588
46: 1,343,044
48: 1,342,785
49: 1,344,825
1,344,928
52: 1,344,257
55: 1,344,583
56: 1,341,009
59: 1,345,011
65: 1,343,620
67: 1,345,235
70: 1,344,088
6— 2: 1,344,817
7— 1: 1,341,759
3: 1,344,046
7— 3: 1,344,114
1,344,629
8— 1: 1,342,134
1.5: 1,343,355
6: 1,341,637
18: 1,342,711
1,344,120
1,344,121
1,344,122
1,344,788
19: 1,342,190
1,342,935
1,343,260
20: 1,343,138
1,343,139
1,343,804
9— 15: 1,343,491
16: 1,343,429
17: 1,341,908
1,343,928
18: 1,341,752
1,342,619
21: 1,344,225
22: 1,344,754
10— 1: 1,344,607
27: 1,343,720
58: 1,345,064
86: 1,342,676
89: 1,343,158
92: 1,342,536
100: 1,342,534
1,344,908
107: 1,343,435
140: 1,344,113
145: 1,342,754
154: 1,343,503
161: 1,342,742
12— 11.1: 1,344,316
14: 1,341,732
17: 1,342,367
20: 1,344,063
30: 1,344,041
42: 1,341,737
1,344,247
47: 1,344,782
50: 1,342,366
64: 1,345,240
78: 1,343,379
131: 1,343,891
142: R. 14,882
1,341,746
1,342,469
146: 1,344,503
147: 1,345,023
13— 1: 1,341,252
6: 1,342,771
9: R. 14,874
11: 1,344,843
14: 1,345,207
17: 1,345,206
18: 1,342,772
21: 1,342,714
14— 2: 1,344,646
15— 8: 1,343,137
1,343,895
13: 1,345,198
14: 1,342,488
16: 1,343,466
20: 1,344,784
37: 1,341,916
39: 1,343,713
43: 1,342,182
44: 1,342,492
46: 1,342,537
1,342,971
49: 1,341,803
1,342,211
50: 1,344,050
51: 1,343,223
52: 1,343,240
1,343,570
54: 1,342,036
56: 1,344,112
1,344,198
1,344,936
59: 1,343,310
1,344,890
1,345,167
1,345,330
60: 1,342,345
15— 60: 1,342,593
1,344,389
61: 1,343,032
63: 1,343,356
69: 1,342,994
1,344,008
16— 4: 1,342,448
1,343,758
1,344,418
5: R. 14,899
7: 1,343,789
9: 1,343,033
11: 1,341,754
1,343,332
20: 1,344,176
1,345,274
25: 1,344,538
49: 1,344,479
73: 1,341,630
1,344,864
90: 1,344,454
103: 1,342,443
1,344,855
1,345,314
106: 1,342,237
113: 1,341,690
164: 1,342,500
1,345,294
17— 14: 1,342,515
18— 1: 1,344,237
2: 1,342,114
1,343,460
1,344,541
3.5: 1,342,450
1,343,408
5: 1,344,270
5.3: 1,345,115
12: 1,344,445
18: 1,342,916
1,344,847
26: 1,341,670
42: 1,343,425
45: 1,343,504
1,344,313
1,344,702
46: 1,342,970
47.5: 1,341,979
50: 1,343,377
53: 1,342,457
1,342,458
1,343,224
54: 1,341,745
55: 1,342,067
1,343,191
1,343,575
19— 25: 1,342,713
26: 1,345,203
20— 1.13: 1,344,617
2: 1,345,164
6: 1,342,610
1,343,234
8: 1,344,181
12: 1,344,532
15: 1,343,168
19: 1,342,751
20: R. 14,893
22: 1,343,416
40: 1,344,529
1,345,147
40.5: 1,344,010
42: 1,343,520
50: 1,342,411
53: 1,345,325
56.4: 1,344,610
68: 1,342,050
1,343,304
69: 1,341,632
1,343,324
1,343,904
79: 1,344,310
89: 1,343,216
92: 1,342,979
1,343,209
21— 27: 1,342,724
36: 1,343,258
57: 1,343,272
69: 1,341,703
75: 1,342,119
92: 1,345,125
153: 1,342,279
21— 180: 1,342,254
209: 1,343,658
214: 1,344,678
217: 1,342,493
22— 20: 1,343,386
31: 1,343,335
32: 1,343,940
33: 1,343,835
45: 1,343,836
1,344,680
58: 1,344,294
65: 1,344,409
73: 1,343,016
76: 1,342,127
83: 1,344,688
92: 1,342,428
100: 1,345,161
106: 1,345,160
123: 1,341,938
1,343,128
1,344,083
193: 1,345,162
198: 1,343,941
1,344,737
200: 1,343,017
23— 1: 1,342,024
1,342,721
1,344,905
3: 1,342,539
1,345,047
10: 1,341,734
11: 1,342,148
1,344,664
13: 1,342,519
1,342,834
1,342,956
1,343,390
1,343,401
1,343,725
1,343,897
1,343,918
1,343,927
1,344,018
1,344,035
1,345,220
20: 1,344,830
21: 1,344,770
22: 1,341,889
1,343,400
1,343,443
1,343,508
1,344,705
1,345,034
24: 1,343,715
1,343,716
1,344,673
1,344,850
1,344,851
1,344,950
1,344,952
28: 1,345,323
34: 1,344,951
24— 3: 1,341,811
1,341,930
11: 1,344,897
13: 1,344,821
33: 1,341,973
61: 1,342,102
66: 1,342,504
67: 1,345,336
68: 1,342,616
73: 1,342,631
1,343,096
81: 1,345,216
87: 1,341,684
96: 1,343,080
101: 1,342,003
1,345,191
123: 1,343,177
129: 1,344,589
130: 1,344,224
134: 1,345,292
135: 1,344,476
138: 1,343,496
139: 1,342,755
1,344,254
143: 1,341,940
155: 1,343,736
171: 1,344,955
194: 1,341,648
24— 198: 1,344,652
203: 1,343,942
206: 1,344,816
214: 1,342,161
217: 1,341,771
218: 1,342,738
1,343,506
1,345,267
222: R. 14,892
240: 1,343,939
241: 1,341,924
1,344,778
248: 1,342,141
1,343,301
249: 1,343,548
1,344,728
253: 1,344,500
259: 1,342,048
1,342,698
260: 1,343,514
261: 1,344,473
1,345,183
263: 1,344,556
25— 1: 1,344,099
2: 1,341,798
3: 1,342,053
12.1: 1,342,208
30: 1,344,590
41: 1,344,230
42: 1,343,581
1,343,909
1,343,950
42.5: 1,344,826
48: 1,344,278
75: 1,345,208
99: 1,342,192
102: 1,344,880
118: 1,345,179
121: 1,342,373
1,343,572
128: 1,344,115
130: 1,343,176
1,345,013
131: 1,344,623
131.5: 1,344,775
155: 1,344,087
156: 1,342,499
1,344,885
26— 12: 1,344,777
18: 1,343,385
27— 6: 1,344,674
8: 1,342,324
1,343,280
1,345,210
24: 1,342,997
28— 2: 1,343,854
4: 1,342,646
6: 1,343,076
20: 1,343,102
21: 1,343,230
1,343,388
24: 1,343,452
25: 1,341,987
29— 1: 1,344,907
18: 1,342,484
26: 1,342,865
38: 1,342,963
43: 1,343,344
67: 1,344,428
84: 1,343,351
1,344,700
85: 1,342,907
1,343,015
1,343,661
1,345,186
86: 1,344,510
86.1: 1,342,840
1,343,901
1,344,619
87.1: 1,342,529
1,343,130
1,345,153
88.2: 1,342,703
1,342,852
1,343,431
89: 1,341,809
1,344,385
1,344,559
96: 1,344,537
98: 1,342,031
99: 1,342,600
29— 100: 1,343,257
104: 1,343,276
105: 1,342,055
148: 1,342,071
1,342,801
1,344,416
1,344,875
157: 1,344,964
188: 1,341,812
1,345,143
30— 1: 1,342,096
1,342,097
1,343,174
1,343,175
5: 1,343,811
9: 1,342,294
12: 1,342,028
1,342,370
1,342,494
1,343,012
1,343,900
1,344,447
1,345,039
20: 1,342,292
31— 14: 1,342,569
21: 1,343,402
101: 1,344,140
32— 1: 1,343,691
4: 1,343,935
1,343,949
1,343,950
5: 1,341,736
9: 1,341,813
1,342,376
1,342,379
10: 1,342,968
12: 1,344,076
33— 1: 1,342,129
9: 1,344,871
24: 1,341,739
27: 1,342,872
34: 1,344,166
44: 1,344,569
46: 1,343,952
49: 1,343,003
52: 1,344,039
55: 1,344,973
62: 1,343,515
64: 1,345,224
68: 1,345,289
75: 1,342,232
80: 1,343,600
88: 1,342,335
90: 1,343,604
93: 1,342,730
93: 1,344,269
107: 1,343,968
111: 1,343,912
133: R. 14,898
143: 1,341,865
1,342,288
1,343,227
1,343,479
147: 1,344,941
1,345,236
157: 1,343,664
172: 1,342,992
178: 1,345,071
191: 1,341,757
203: 1,344,264
204: 1,343,188
206: 1,343,657
215: 1,345,098
34— 5: 1,344,551
6: 1,345,260
11: 1,341,655
12: 1,344,419
1,344,893
1,345,225
17: 1,342,774
1,344,932
19: 1,344,163
30: 1,344,241
34: 1,341,676
37: 1,345,230
46: 1,341,884
48: 1,345,083
35— 5: 1,343,181
8: 1,343,244.
9: 1,343,721

35— 12: 1,342,520
1,343,095
1,343,112
15: 1,344,920
16: 1,341,773
1,344,685
36— 2: 1,341,885
30: 1,343,450
1,344,504
31: 1,341,880
35: 1,343,528
36: 1,342,291
1,343,353
1,344,443
37: 1,345,114
41: 1,343,602
42: 1,343,638
1,344,356
44: 1,342,967
56: 1,342,149
58.5: 1,344,996
59: 1,344,972
72: 1,343,329
37— 5: 1,343,097
19: 1,342,895
24: 1,343,081
1,345,296
25: 1,343,734
30: 1,342,996
1,344,969
40: 1,341,750
42: 1,343,159
1,344,794
50: 1,344,560
54: 1,342,759
58: 1,343,533
38— 8: 1,344,930
12: 1,343,816
39— 3: 1,342,253
18: 1,343,023
19: 1,342,014
1,345,145
80: 1,341,983
83: 1,342,227
87: 1,341,905
1,344,820
40— 2: 1,342,627
1,343,423
5: 1,343,569
10: 1,342,844
1,344,079
15: 1,341,720
16: 1,344,253
1,344,120
21: 1,343,953
27: R. 14,883
28: 1,342,156
1,342,223
1,345,128
33: 1,344,642
39: 1,342,538
41: 1,342,793
46: 1,343,994
53: 1,342,394
61: 1,345,211
67: 1,343,248
1,345,218
68: 1,343,646
78: 1,341,950
85: 1,344,618
86: 1,342,283
107: 1,343,601
117: 1,345,150
125: 1,343,247
1,343,837
132: 1,341,990
1,342,181
1,344,355
145: 1,344,268
146: 1,343,054
152: 1,342,817
155: 1,341,671
1,342,477
158: 1,342,248
41— 1: 1,343,972
1,344,192
7: 1,341,427
9: 1,345,249
21: 1,343,806
46: 1,343,978
42— 3: 1,342,358
1,343,444
1,344,884
1,344,911
1,344,991
41: 1,343,583
66: 1,342,023
71: 1,341,843
90: 1,342,382
43— 6: 1,344,693
35: 1,345,173
72: 1,345,227
77: 1,342,328
81: 1,342,668
1,342,255
43— 84: 1,343,066
86: 1,344,807
87: 1,342,425
88: 1,344,712
107: 1,341,706
118: 1,343,502
119: 1,342,933
135: 1,344,943
137: 1,342,974
143: 1,344,119
44— 1: 1,342,799
45— 2: 1,341,922
13: 1,342,200
1,342,274
1,342,346
1,342,626
24: 1,342,396
1,345,030
26: 1,344,900
27: 1,342,435
1,342,686
31: 1,342,387
32: 1,345,262
48: 1,342,951
51: 1,341,654
52: 1,342,851
57: 1,343,229
58: 1,344,498
77: 1,343,513
1,345,194
78: 1,342,083
79: 1,345,197
82: 1,343,636
94: 1,343,742
97: 1,342,854
1,345,018
1,345,157
99: 1,342,350
1,342,351
113: 1,342,481
116: 1,343,810
118: 1,342,269
120: 1,342,820
1,344,718
131: 1,341,988
135: 1,343,703
46— 4: 1,343,998
1,344,053
6: 1,342,517
21: 1,343,838
22: 1,344,725
27: 1,344,965
31: 1,344,104
35: 1,343,065
1,344,451
37: R. 14,902
1,344,250
1,344,632
1,345,009
46: 1,341,985
1,342,344
1,343,422
1,345,052
1,345,328
41: 1,342,706
1,342,884
45: 1,342,037
1,342,577
1,342,882
1,342,945
1,344,064
1,345,140
46: 1,341,860
1,342,315
1,345,085
48: 1,343,834
51: 1,342,773
1,345,038
53: 1,341,853
55: 1,344,547
56: 1,343,083
1,344,480
59: 1,341,628
1,343,136
62: 1,344,009
64: 1,343,984
1,344,983
65: 1,345,277
69: 1,344,255
1,344,903
1,345,241
70: 1,342,247
47— 18: 1,344,526
48— 4: 1,344,867
180: 1,342,193
1,344,706
49— 7: 1,342,821
8.31: 1,344,325
17: 1,342,533
17.1: 1,343,186
19: 1,342,786
34: 1,343,014
38: 1,343,987
46: 1,342,233
49— 55: 1,343,183
61: 1,342,080
76: 1,342,056
77: 1,342,042
1,342,960
78.1: 1,343,686
81: 1,342,267
1,342,268
92: 1,342,282
50— 23: 1,341,766
51— 1: 1,344,805
3: 1,343,522
4: 1,341,800
1,341,984
1,342,375
1,343,011
7: 1,341,699
1,341,799
1,343,342
11: 1,343,710
1,343,711
13: 1,343,350
16: 1,344,522
29: 1,345,043
34: 1,344,168
58: 1,343,492
120: 1,343,050
145: 1,343,981
203: 1,343,959
210: 1,342,275
52— 3: 1,341,705
1,343,083
1,343,077
1,343,317
53— 1: 1,341,731
1,341,972
1,342,888
1,343,114
1,343,738
1,344,806
1,345,119
3: 1,343,582
1,344,089
1,344,511
5: 1,343,129
1,344,915
6: 1,343,395
1,343,991
7: 1,341,748
1,342,444
54— 10: 1,341,715
12: 1,345,075
38: 1,341,708
77: 1,344,354
78: 1,343,147
55— 3: 1,342,454
9: 1,341,909
38: 1,344,256
51: 1,341,861
60: 1,343,805
61: 1,341,825
66: 1,343,558
77: 1,344,819
83: 1,341,824
1,344,159
84: 1,342,614
91: 1,343,827
107: 1,342,795
1,344,066
108: 1,345,189
109: 1,345,315
146: 1,343,366
56— 9: 1,344,626
10: 1,344,624
12: 1,342,528
22: 1,345,070
32: 1,341,959
1,344,205
78: 1,344,017
102: 1,342,369
119: 1,342,640
1,344,761
135: 1,344,130
220: 1,343,884
259: 1,344,852
308: 1,343,896
348: 1,344,552
395: 1,341,819
1,344,363
402: 1,344,348
422: 1,343,775
480: 1,343,624
57— 116: 1,342,699
1,343,110
58— 14: 1,343,302
43: 1,344,913
116: 1,343,798
121: 1,345,318
59— 7: 1,342,417
98: 1,348,495
60— 4: 1,342,544
14: 1,343,449
1,344,090
1,345,319
60— 15: 1,342,723
16: 1,342,108
1,343,226
1,344,739
24: 1,342,501
26: 1,343,577
37: 1,343,536
41: 1,342,314
1,343,473
44: 1,341,854
52: 1,343,117
53: 1,343,338
1,343,749
57: 1,342,682
59: 1,343,056
67: 1,342,841
70: 1,342,177
1,343,671
95: 1,343,665
102: 1,343,666
61— 10: 1,344,656
13: 1,343,871
28: 1,344,043
57: 1,342,424
62: 1,341,949
69: 1,343,744
84: 1,342,503
62— 92: 1,343,051
115: 1,344,502
116: 1,342,964
117: 1,341,744
118: R. 14,884
R. 14,885
1,345,001
119: 1,342,403
171: 1,342,121
63— 4: 1,344,365
15: 1,344,111
18: 1,342,035
28: 1,343,246
64— 10: 1,345,053
14: 1,344,527
17: 1,343,152
23: 1,342,164
1,344,175
24: 1,344,067
25: R. 14,878
1,342,384
1,344,267
1,345,254
27: 1,344,405
33: 1,344,465
36: 1,343,321
1,343,876
38: 1,342,541
39: 1,344,376
1,344,524
48: 1,344,749
1,345,089
49: 1,342,756
55: 1,341,968
1,342,059
61: 1,343,885
62: 1,341,873
1,344,868
64: 1,344,858
1,344,859
65: 1,342,101
81: 1,342,142
1,342,784
95: 1,342,300
96: 1,343,121
1,343,413
102: 1,343,728
1,344,707
65— 13: 1,341,756
1,344,179
15: 1,343,606
31: 1,344,072
1,344,404
45: 1,342,524
61: 1,343,099
1,344,892
66— 4: 1,344,468
7: 1,342,245
10: 1,345,303
67— 6: 1,341,785
7.1: 1,342,838
23: 1,344,446
31: 1,345,201
37: 1,342,446
1,342,849
50: 1,344,200
63: 1,343,672
1,343,673
77: 1,343,217
79: 1,345,141
111: 1,342,160
68— 3: 1,345,324
6: 1,345,019
10: 1,342,109
1,342,278
1,342,362
1,342,660
20: 1,345,003
68— 27: 1,343,699
31: 1,342,807
32: 1,342,004
1,342,005
1,344,835
34: 1,344,660
69— 9.5: 1,342,120
16: R. 14,876
1,342,430
70— 7: 1,343,615
14: 1,344,613
18: 1,342,075
24: 1,342,334
27: 1,344,846
46: 1,343,187
1,343,438
1,343,712
50: 1,343,731
53: 1,341,876
1,342,157
1,343,048
1,343,145
1,344,469
69: 1,342,465
90: 1,343,192
1,343,424
1,343,709
1,343,856
1,345,014
105: 1,344,517
108: 1,343,064
113: 1,342,033
1,345,020
126: 1,342,748
1,343,405
1,343,459
1,343,807
1,343,870
1,343,990
127: 1,342,728
128: 1,344,554
129: 1,341,925
1,342,151
1,342,276
132: 1,342,620
71— 9: 1,345,076
72— 7: 1,342,812
8: 1,344,929
13: 1,343,832
16: 1,342,062
30: 1,343,936
1,345,156
41: 1,342,404
1,343,312
1,344,808
46: 1,343,637
53: 1,344,779
66: 1,343,659
70: 1,344,767
90: 1,342,329
94: 1,344,608
95: 1,342,918
110: 1,344,881
1,344,882
1,344,942
122: 1,342,349
1,343,326
138: 1,342,439
73— 1: 1,342,886
1,341,714
28: 1,341,808
32: 1,344,462
51: 1,343,954
1,341,301
1,344,515
52: 1,343,088
1,343,454
82: 1,344,693
1,345,154
110: 1,344,340
1,344,722
184: 1,344,813
74— 5: 1,342,648
1,343,407
1,344,128
7: 1,342,262
1,342,687
1,343,031
1,343,963
1,344,150
1,344,288
1,344,439
13: 1,342,352
1,344,518
14: 1,342,019
1,344,732
1,344,989
20: 1,341,849
26: 1,342,791
28: 1,341,914
1,343,047
33: 1,342,660
1,343,531
1,344,313
1,345,142
74— 34: 1,342,195
1,343,944
1,344,280
1,344,727
36: 1,343,107
1,345,110
38: 1,342,683
39: 1,342,372
41: 1,341,685
1,342,170
1,343,923
46: 1,341,767
1,342,023
1,342,363
1,342,762
1,342,965
1,343,580
1,343,750
1,344,345
53: 1,343,254
54: 1,341,993
1,342,249
1,345,290
58: 1,342,175
1,342,587
1,342,928
1,343,131
1,343,132
1,343,189
1,344,319
59: 1,342,126
1,342,587
1,342,920
1,344,236
1,344,606
64: 1,344,475
70: 1,342,525
78: 1,342,397
79: 1,343,305
1,343,846
1,344,005
1,345,308
81: 1,343,378
1,344,466
1,344,602
85: 1,344,592
99: 1,341,107
105: 1,343,178
106: 1,342,649
1,345,278
108: 1,345,221
109: 1,342,380
1,343,828
1,344,342
112: 1,343,005
1,343,006
119: 1,342,599
120: 1,343,007
1,343,008
1,343,009
1,343,061
75— 1: 1,341,774
1,341,992
1,342,911
1,342,913
1,342,993
1,344,165
1,344,566
17: 1,341,686
1,343,656
1,344,977
18: 1,343,153
1,343,619
27: 1,345,051
1,345,192
46: 1,342,701
73: 1,343,249
1,343,250
78: 1,341,890
76— 46: 1,342,462
69: 1,342,327
78: 1,342,236
112: 1,341,806
77— 2: 1,343,517
1,344,410
7: 1,343,180
1,344,910
32: 1,343,370
56: 1,342,447
63: 1,341,841
75: 1,344,411
78— 14: 1,343,946
26: 1,342,782
27: 1,341,671
82: 1,343,346
83: 1,341,840
89: 1,343,277
90: 1,341,839
79— 14: 1,343,042
80— 16: 1,341,891
35: 1,341,651
37: 1,343,652
40: 1,342,130
44: 1,342,220
84— 168: 1,344,386
178: 1,342,180
513: 1,345,316
85— 1.5: 1,342,162
3: 1,344,720
5: 1,343,089
1,344,596
24: 1,342,201
50: 1,344,417
51: 1,344,194
86— 23: 1,343,588
87— 5: 1,344,545
12: 1,342,668
1,343,255
16: 1,342,783
88— 1: 1,341,683
1,342,578
2.6: 1,343,025
16.2: 1,341,933
16.4: 1,344,616
17: 1,342,040
1,342,429
1,342,681
18.4: 1,342,560
19.3: 1,342,076
24: 1,341,666
1,341,667
1,342,735
1,343,588
1,343,889
1,344,379
1,344,682
1,344,896
26: 1,341,665
1,343,598
27: 1,345,084
28: 1,342,561
32: 1,343,074
39: 1,345,272
42: 1,343,060
47: 1,344,474
1,345,029
50: 1,342,808
1,343,437
53: 1,342,973
55: 1,344,293
89— 1: 1,344,992
3: 1,344,499
7: 1,343,456
28: 1,342,720
31: 1,342,978
35: 1,343,060
36: 1,342,943
38: 1,342,475
1,345,245
1,345,246
43: 1,342,708
1,342,709
90— 4: 1,343,396
1,343,982
1,344,290
1,345,028
5: 1,344,879
9: 1,341,953
15: 1,345,117
24.3: 1,343,554
58: 1,341,646
59: 1,342,390
91— 39: 1,342,212
42: 1,343,887
44: 1,341,760
54: 1,344,426
67.4: 1,342,824
67.8: 1,345,200
68: 1,341,807
1,342,767
1,344,891
70: 1,344,645
1,345,184
70.2: 1,343,842
92— 1: 1,344,625
5: 1,341,991
15: 1,344,719
21: 1,344,620
1,345,317
39: 1,344,570
43: 1,343,505
44: 1,342,655
1,344,603
54: 1,342,184
67: 1,344,024
1,344,173
93— 13: 1,341,832
1,341,833
1,341,835
1,341,836
40: 1,341,954
1,343,748
1,343,906
44: 1,342,047
51: 1,344,506
58: 1,342,239
59: 1,342,575
93— 59: 1,343,907
81: 1,345,137
91: 1,343,200
93: 1,342,665
94— 11: 1,344,895
13: R. 14,904
R. 14,871
23: 1,343,680
41: 1,341,948
50: 1,344,916
95— 1.1: 1,342,155
8: 1,342,590
22: 1,343,590
30: 1,344,182
31: 1,344,207
32: 1,344,873
47: 1,343,059
1,344,287
48: 1,344,790
49: 1,344,857
57: 1,344,156
1,344,214
6: 1,344,007
53: 1,344,384
56: 1,343,170
175: 1,342,530
199: 1,342,722
202: 1,344,026
218: 1,341,693
278: 1,345,302
1,342,629
292: 1,344,489
327: 1,343,633
334: 1,345,255
342: 1,342,355
349: 1,341,692
350: 1,341,691
364: 1,341,627
398: 1,343,073
373: 1,343,511
375: 1,342,803
378: 1,344,648
381: 1,343,917
386: 1,344,939
389: 1,343,220
402: 1,342,030
413: 1,343,537
414: 1,342,113
102— 2: 1,343,036
1,344,558
3: 1,343,909
1,344,074
29: 1,343,557
1,343,747
102— 29: 1,344,733
32: 1,341,844
36: 1,342,413
39: 1,342,652
1,343,415
103— 8: 1,344,883
10: 1,341,669
44: 1,341,846
1,344,085
56: 1,341,906
75: 1,342,798
76: 1,343,574
80: 1,343,157
81: 1,342,087
82: 1,343,427
1,344,056
84: 1,343,190
1,343,243
87: 1,342,931
97: 1,341,977
105: 1,342,135
1,344,666
171: 1,342,908
111— 52: 1,344,764
112— 3: 1,342,423
1,344,605
28: 1,345,152
48: R. 14,901
91: 1,341,996
115: 1,344,923
117: 1,342,926
1,344,677
254: 1,344,134
260: 1,343,614
105— 27: 1,342,761
48: 1,341,961
73: 1,343,698
95: 1,342,137
102: 1,344,924
106: 1,344,945
1,344,946
117: 1,344,149
154: 1,343,031
157: 1,344,397
164: 1,344,947
166: 1,341,776
1,341,777
1,341,778
113— 1: 1,344,405
24: 1,343,538
46: 1,341,721
68: 1,343,493
80: 1,343,913
175: 1,344,740
197: 1,344,993
220: 1,343,618
239: 1,342,085
1,342,088
1,342,091
114— 0.5: 1,345,677
1: 1,344,151
10: 1,342,064
16: 1,343,643
21: 1,344,352
250: 1,342,095
280: 1,341,208
288: 1,341,403
301: 1,342,093
302: 1,342,090
315: 1,342,702
358: 1,343,241
363: 1,344,243
377: 1,343,291
1,345,326
1,344,322
390: 1,344,393
116— 11: 1,343,271
17: 1,345,309
22: 1,342,584
27: 1,345,203
31: 1,342,391
33: 1,342,044
1,342,543
35: 1,344,152
41: 1,343,761
45: 1,342,850
47: 1,343,521
71: 1,345,025
73: 1,343,278
76: 1,344,748
86: 1,344,611
112: 1,344,679
115: 1,343,149
136: 1,342,775
174: 1,342,669
189: 1,343,823
197: 1,344,284
242: 1,342,800
252: 1,342,150
261: 1,344,787
262: 1,341,766
1,344,000
121— 10: 1,344,523
1,345,271
14: 1,344,126
15: 1,344,170
17: 1,345,270
18: 1,343,610
1,343,649
28: 1,342,540
49: 1,343,316
50: 1,343,612
61: 1,343,331
1,342,496
65: 1,343,161
1,343,863
1,345,065
66: 1,342,368
1,345,169
69: 1,342,483
70: 1,342,498
71: 1,342,105
1,344,641
73: 1,342,449
1,342,558
75: 1,343,678
90: 1,343,525
98: 1,341,762
1,342,656
1,345,037
108: 1,343,808
116: 1,345,233
117: 1,342,976
1,343,943
119— 55: 1,343,817
1,344,987
73: 1,341,919
1,341,920
1,343,010
75: 1,344,189
1,344,750
81: 1,345,113
82: 1,345,238
103: 1,342,893
128: 1,341,900
132: 1,344,791
149: 1,344,651
150: 1,341,989
153: 1,343,213
1,343,596
154: 1,344,828
159: 1,342,776
120— 4: 1,343,960
6: 1,344,375
8: 1,343,621
17: 1,342,416
25: 1,344,335
1,345,087
28: 1,343,527
38: 1,344,434
42: 1,345,155
43: 1,345,044
46: 1,341,850
1,342,736
47: 1,343,521
87: 1,343,796
90: 1,341,943
101: 1,344,329
103: 1,343,245
107: 1,341,847
1,342,576
121— 10: 1,344,523
1,345,271
14: 1,344,126
15: 1,344,170
17: 1,345,270
18: 1,343,610
1,343,649
28: 1,342,540
49: 1,343,316
50: 1,343,612
61: 1,343,331
1,342,496
65: 1,343,161
1,343,863
1,345,065
66: 1,342,368
1,345,169
69: 1,342,483
70: 1,342,498
71: 1,342,105
1,344,641
73: 1,342,449
1,342,558
75: 1,343,678
90: 1,343,525
98: 1,341,762
1,342,656
1,345,037
108: 1,343,808
116: 1,345,233
117: 1,342,976
1,343,943
122— 6.5: 1,343,314
36: 1,343,937
109.5: 1,344,045
115: 1,342,342
195: 1,342,672
279: 1,345,231
392: 1,343,654
424: 1,343,144
444: 1,343,824
462: 1,344,211
123— 1: 1,343,938
12: 1,343,635
1,344,331
25: 1,343,858
1,344,793
30: 1,341,911
33: 1,344,407
41: 1,343,980
43: 1,344,158
44: 1,342,922
45: 1,342,146
47: 1,343,142
52: 1,343,668
53: 1,341,838
55: 1,344,279
59: 1,342,438
1,344,228
1,344,263
1,345,094
1,345,266
65: 1,343,161
1,343,863
1,345,065
66: 1,342,368
1,345,169
69: 1,342,483
70: 1,342,498
71: 1,342,105
1,344,641
73: 1,342,449
1,342,558
75: 1,343,678
90: 1,343,525
98: 1,341,762
1,342,656
1,345,037
108: 1,343,808
116: 1,345,233
117: 1,342,976
1,343,943

80— 54: 1,342,264
1,342,343
1,342,608
66: 1,343,753
81— 3: 1,341,888
3: 1,344,720
5: 1,343,089
1,344,596
R. 14,871
10: 1,341,669
44: 1,341,846
1,344,085
56: 1,341,906
75: 1,342,798
76: 1,343,574
80: 1,343,157
81: 1,342,087
82: 1,343,427
1,343,702
86: 1,341,896
87: 1,342,931
1,343,243
99: 1,341,977
105: 1,342,135
1,344,666
171: 1,342,908
111— 52: 1,344,764
112— 3: 1,342,423
1,344,605
28: 1,343,527
38: 1,344,434
42: 1,345,155
43: 1,345,044
46: 1,341,850
1,342,736
47: 1,343,521
87: 1,343,796
90: 1,341,943
101: 1,344,329
103: 1,343,245
107: 1,341,847
1,342,576
121— 10: 1,344,523
1,345,271
14: 1,344,126
15: 1,344,170
17: 1,345,270
18: 1,343,610
1,343,649
28: 1,342,540
49: 1,343,316
50: 1,343,612
61: 1,343,331
1,342,496
65: 1,343,161
1,343,863
1,345,065
66: 1,342,368
1,345,169
69: 1,342,483
70: 1,342,498
71: 1,342,105
1,344,641
73: 1,342,449
1,342,558
75: 1,343,678
90: 1,343,525
98: 1,341,762
1,342,656
1,345,037
108: 1,343,808
116: 1,345,233
117: 1,342,976
1,343,943
3.1: 1,342,848
15: 1,344,533
1,344,562
1,344,960
26: 1,344,862
53: 1,341,701
55: 1,343,667
57: 1,341,700
1,344,265
58: 1,343,692
72: 1,344,542
85: 1,341,712
79: 1,343,448
90: 1,344,800
105: 1,342,356
116: 1,342,025
126: 1,344,101
1,344,234
131: 1,342,856
134: 1,344,154
148: 1,345,202
152: 1,342,643
162: 1,344,573
169: 1,343,826
185: 1,343,882
82— 1: 1,342,632
1,344,550
2: 1,341,946
4: 1,344,831
1,345,138
5: 1,344,536
24: 1,342,745
1,342,746
1,342,983
35: 1,342,535
41: 1,342,122
44: 1,343,273
1,343,437
83— 8: 1,344,453
1,344,470
10: 1,344,584
11: R. 14,886
26: 1,342,348
27: 1,344,148
29: 1,345,273
31: 1,342,693
44: 1,343,868
1,345,120
45: 1,342,917
1,343,041
1,345,082
52: 1,344,578
54: 1,343,497
56: 1,342,990
1,343,292
1,343,878
1,344,747
1,344,751
60: 1,341,874
1,342,989
1,344,390
1,344,493
1,345,058
64: 1,343,215
1,344,549
1,345,215
67: 1,342,567
68: 1,342,727
73: 1,344,306
75: 1,342,231
1,344,180
81: 1,344,051
82: 1,342,038
85: 1,341,770
1,343,313
88: 1,343,266
1,343,683
92: 1,341,978
1,343,458
84— 8: 1,343,883
10: 1,343,163
1,343,164
16: 1,342,029
17: 1,344,374
26: 1,343,516
46: 1,344,497
48: 1,343,595
1,344,984
75: 1,344,968
80: 1,342,718
121: 1,342,202
124: 1,345,104
125: 1,342,846
133: 1,345,239
136: 1,344,574
161: 1,343,237
168: 1,343,442
1,344,328
84— 168: 1,344,386
178: 1,342,180
513: 1,345,316
85— 1.5: 1,342,162
3: 1,344,720
5: 1,343,089
1,344,596
24: 1,342,201
50: 1,344,417
51: 1,344,194
86— 23: 1,343,588
87— 5: 1,344,545
12: 1,342,668
1,343,255
16: 1,342,783
88— 1: 1,341,683
1,342,578
2.6: 1,343,025
16.2: 1,341,933
16.4: 1,344,616
17: 1,342,040
1,342,429
1,342,681
18.4: 1,342,560
19.3: 1,342,076
24: 1,341,666
1,341,667
1,342,735
1,343,588
1,343,889
1,344,379
1,344,682
1,344,896
26: 1,341,665
1,343,598
27: 1,345,084
28: 1,342,561
32: 1,343,074
39: 1,345,272
42: 1,343,060
47: 1,344,474
1,345,029
50: 1,342,808
1,343,437
53: 1,342,973
55: 1,344,293
89— 1: 1,344,992
3: 1,344,499
7: 1,343,456
28: 1,342,720
31: 1,342,978
35: 1,343,060
36: 1,342,943
38: 1,342,475
1,345,245
1,345,246
43: 1,342,708
1,342,709
90— 4: 1,343,396
1,343,982
1,344,290
1,345,028
5: 1,344,879
9: 1,341,953
15: 1,345,117
24.3: 1,343,554
58: 1,341,646
59: 1,342,390
91— 39: 1,342,212
42: 1,343,887
44: 1,341,760
54: 1,344,426
67.4: 1,342,824
67.8: 1,345,200
68: 1,341,807
1,342,767
1,344,891
70: 1,344,645
1,345,184
70.2: 1,343,842
92— 1: 1,344,625
5: 1,341,991
15: 1,344,719
21: 1,344,620
1,345,317
39: 1,344,570
43: 1,343,505
44: 1,342,655
1,344,603
54: 1,342,184
67: 1,344,024
1,344,173
93— 13: 1,341,832
1,341,833
1,341,835
1,341,836
40: 1,341,954
1,343,748
1,343,906
44: 1,342,047
51: 1,344,506
58: 1,342,239
59: 1,342,575
93— 59: 1,343,907
81: 1,345,137
91: 1,343,200
93: 1,342,665
94— 11: 1,344,895
13: R. 14,904
R. 14,871
23: 1,343,680
41: 1,341,948
50: 1,344,916
95— 1.1: 1,342,155
8: 1,342,590
22: 1,343,590
30: 1,344,182
31: 1,344,207
32: 1,344,873
47: 1,343,059
1,344,287
48: 1,344,790
49: 1,344,857
57: 1,344,156
1,344,214
6: 1,344,007
53: 1,344,384
56: 1,343,170
175: 1,342,530
199: 1,342,722
202: 1,344,026
218: 1,341,693
278: 1,345,302
1,342,629
292: 1,344,489
327: 1,343,633
334: 1,345,255
342: 1,342,355
349: 1,341,692
350: 1,341,691
364: 1,341,627
398: 1,343,073
373: 1,343,511
375: 1,342,803
378: 1,344,648
381: 1,343,917
386: 1,344,939
389: 1,343,220
402: 1,342,030
413: 1,343,537
414: 1,342,113
102— 2: 1,343,036
1,344,558
3: 1,343,909
1,344,074
29: 1,343,557
1,343,747
102— 29: 1,344,733
32: 1,341,844
36: 1,342,413
39: 1,342,652
1,343,415
103— 8: 1,344,883
10: 1,341,669
44: 1,341,846
1,344,085
56: 1,341,906
75: 1,342,798
76: 1,343,574
80: 1,343,157
81: 1,342,087
82: 1,343,427
1,344,056
84: 1,343,190
1,343,243
87: 1,342,931
97: 1,341,977
105: 1,342,135
1,344,666
171: 1,342,908
111— 52: 1,344,764
112— 3: 1,342,423
1,344,605
28: 1,343,527
38: 1,344,434
42: 1,345,155
43: 1,345,044
46: 1,341,850
1,342,736
47: 1,343,521
87: 1,343,796
90: 1,341,943
101: 1,344,329
103: 1,343,245
107: 1,341,847
1,342,576
121— 10: 1,344,523
1,345,271
14: 1,344,126
15: 1,344,170
17: 1,345,270
18: 1,343,610
1,343,649
28: 1,342,540
49: 1,343,316
50: 1,343,612
61: 1,343,331
1,342,496
65: 1,343,161
1,343,863
1,345,065
66: 1,342,368
1,345,169
69: 1,342,483
70: 1,342,498
71: 1,342,105
1,344,641
73: 1,342,449
1,342,558
75: 1,343,678
90: 1,343,525
98: 1,341,762
1,342,656
1,345,037
108: 1,343,808
116: 1,345,233
117: 1,342,976
1,343,943
122— 6.5: 1,343,314
36: 1,343,937
109.5: 1,344,045
115: 1,342,342
195: 1,342,672
279: 1,345,231
392: 1,343,654
424: 1,343,144
444: 1,343,824
462: 1,344,211
123— 1: 1,343,938
12: 1,343,635
1,344,331
25: 1,343,858
1,344,793
30: 1,341,911
33: 1,344,407
41: 1,343,980
43: 1,344,158
44: 1,342,922
45: 1,342,146
47: 1,343,142
52: 1,343,668
53: 1,341,838
55: 1,344,279
59: 1,342,438
1,344,228
1,344,263
1,345,094
1,345,266

123— 119: 1,342,969
122: 1,342,159
1,342,950
1,344,242
1,344,615
1,344,698
124: 1,344,001
140: 1,341,640
146.5: 1,344,369
1,344,464
1,344,953
1,345,243
148: 1,342,553
1,344,463
1,344,528
149: 1,342,199
1,342,607
1,344,723
1,345,331
169: 1,341,747
1,342,421
1,342,431
1,343,052
1,343,348
1,343,626
1,343,743
1,344,172
1,344,530
1,344,721
1,344,892
1,344,954
1,344,956
173: R.14,869
1,342,633
174: 1,343,485
1,343,494
175: 1,341,915
177: 1,343,111
180: 1,343,555
1,344,805
1,344,815
182: 1,343,501
185: 1,344,521
187.5: 1,342,205
1,343,547
193: 1,342,939
195: 1,342,977
1,345,048
196: 1,344,982
198: 1,344,756
124— 1: 1,342,357
1,344,378
14: 1,342,700
15: 1,341,814
1,342,022
125— 30: 1,342,647
33: 1,342,984
45: 1,342,422
126— 1: 1,344,061
15: 1,344,062
20: 1,343,122
1,344,326
24: 1,343,341
36: 1,344,755
37: 1,343,539
39: 1,342,991
1,344,136
1,345,295
42: 1,344,253
59.5: 1,342,072
65: 1,342,163
73: 1,343,645
85: 1,342,121
86: R.14,903
1,343,484
90: 1,342,921
1,343,578
91: 1,343,634
93: 1,342,570
99: 1,341,723
1,342,258
1,343,752
132: 1,343,745
146: 1,341,788
248: 1,342,359
261: 1,343,670
271.2: 1,341,672
275: 1,342,455
309: 1,343,706
317: 1,344,219
339: 1,341,829
1,343,849
371: 1,343,644
127— 8: 1,343,737
128— 15: 1,344,020
29: 1,343,486
55: 1,342,280
57: 1,343,432
1,345,096
63: 1,345,026
69: 1,342,597
96: 1,342,914
100: 1,345,139
105: 1,345,148
141: 1,344,349

128— 152: 1,344,935
218: 1,343,787
237: 1,343,085
252: 1,343,113
258: 1,342,252
269: 1,345,280
289: 1,342,588
290: 1,341,875
327: 1,344,959
334: 1,344,227
129— 1: 1,342,766
8: 1,344,934
10: 1,344,971
13: 1,343,103
24: 1,342,833
41: 1,342,637
130— 1: 1,342,574
5: 1,344,563
12: 1,344,921
15: 1,341,791
1,341,793
19: 1,341,792
22: 1,344,599
27: 1,342,806
30: 1,344,332
32: 1,342,571
1,343,586
131— 9: 1,343,125
10: 1,342,868
12: 1,343,253
22: 1,344,874
51: 1,342,805
132— 3: 1,342,224
18: 1,345,040
22: 1,341,980
1,342,822
1,343,239
25: 1,341,558
30: 1,341,733
32: 1,342,178
133— 1: 1,343,800
4: 1,344,786
13: 1,342,673
134— 3: 1,341,952
17.5: 1,343,150
24: 1,342,862
1,343,259
26: 1,344,338
27: 1,344,686
35: 1,342,638
51: 1,344,861
54: 1,341,704
55: 1,342,497
56: 1,342,942
1,343,387
58: 1,343,441
1,343,446
1,343,447
1,343,468
1,343,469
61: 1,344,060
79: 1,341,710
135— 1: 1,342,234
4: 1,345,108
5: 1,342,452
7: 1,342,987
13: 1,344,245
20: 1,345,067
26: 1,344,132
33: 1,342,451
46: 1,342,320
52: 1,342,506
137— 21: 1,342,516
1,343,072
53: 1,342,667
1,342,985
1,344,300
1,344,894
1,344,976
68: 1,345,311
71: 1,342,491
75: 1,343,236
1,344,032
1,344,321
103: 1,343,550
104: 1,342,874
1,343,421
113: 1,344,292
122: 1,342,052
139: 1,342,641
1,343,983
1,344,633
140: 1,344,362
144: 1,342,966
160: 1,341,976
1,342,340
1,342,464
1,344,367
1,344,582
138— 9: 1,342,140
1,344,037
1,344,711
1,344,919
16: 1,343,024
23: 1,342,238

139— 9: 1,342,259
22: 1,342,726
29: 1,341,941
36: 1,344,413
46: 1,344,553
1,344,734
48: 1,342,946
1,344,177
51: 1,342,555
52: 1,343,663
54: 1,342,272
1,342,710
65: 1,341,929
71: 1,342,589
75: 1,344,067
85: 1,341,883
1,341,999
1,342,573
1,344,065
90: 1,344,066
93: 1,342,876
94: 1,342,896
1,344,795
140— 1: 1,342,712
12: 1,344,595
71: 1,341,964
75: 1,343,267
93: 1,343,920
118: 1,341,895
141— 7: 1,342,485
1,342,739
9: 1,341,717
1,345,059
1,345,226
12: 1,342,624
142— 38: 1,343,319
476: 1,342,606
143— 5: 1,344,096
10: 1,344,860
37: 1,344,203
144— 2: 1,342,925
9: 1,344,217
69: 1,342,261
198: 1,342,218
245: 1,342,144
288: 1,343,553
1,345,177
292: 1,342,891
1,342,892
309: 1,342,213
1,343,320
145— 15: 1,342,154
20: 1,341,820
21: 1,343,627
51: 1,343,101
61: 1,343,323
108: 1,344,103
146— 3: 1,342,689
1,342,690
1,342,691
1,342,692
1,344,731
6: 1,342,207
7: 1,343,589
1,344,849
9: 1,343,439
11: 1,341,894
1,343,815
148— 8: 1,344,372
10: 1,343,976
1,343,977
1,344,643
12: 1,344,392
1,345,045
14: 1,344,658
15: 1,345,050
25: 1,343,359
149— 7: 1,345,234
16: 1,344,467
20: 1,342,760
150— 0.5: 1,344,760
9: 1,342,877
34: 1,344,124
42: 1,342,432
151— 6: 1,343,334
11: 1,344,534
12: 1,342,508
17: 1,342,319
19: 1,344,544
29: 1,341,741
48: 1,344,845
53: 1,342,559
57: 1,344,684
152— 1: 1,342,562
1,343,154
1,344,346
2: 1,341,789
1,342,086

152— 2: 1,343,784
1,345,281
5: 1,341,942
1,342,158
1,343,233
1,343,685
1,344,773
8: 1,341,656
1,342,339
1,343,172
1,343,540
1,343,766
1,344,974
1,345,228
11.5: 1,343,160
1,344,854
12: 1,341,828
13: 1,341,663
14: 1,343,293
1,343,294
1,344,273
1,344,477
1,345,256
16: 1,342,169
1,342,753
1,344,853
17: 1,343,155
18: 1,343,418
21: 1,341,877
1,341,926
1,342,118
1,342,225
1,342,622
1,343,394
1,344,602
1,345,269
1,345,282
1,345,313
1,345,332
22: 1,341,936
1,342,297
27: 1,342,565
1,343,971
1,344,838
28: 1,344,513
1,345,250
29: 1,344,012
1,344,990
30: 1,343,898
1,344,483
32: 1,341,842
1,342,289
1,343,840
1,343,860
33: 1,343,567
1,344,025
1,345,163
36: 1,343,684
38: 1,343,861
41: 1,344,401
42: 1,342,271
48: 1,344,337
1,344,579
50: R.14,900
1,344,986
52: 1,341,907
53: 1,342,461
153— 2: 1,343,647
10: 1,345,000
21: 1,344,637
22: 1,344,105
32: 1,342,554
38: 1,342,263
1,342,564
67: 1,344,116
78: 1,341,636
154— 1: 1,341,956
1,341,981
2: 1,342,185
4: R.14,875
8: 1,342,441
1,344,143
9: R.14,879
10: 1,343,399
25: 1,344,145
35: 1,345,081
43: 1,341,740
44: 1,345,046
45: 1,343,986
45.5: 1,342,198
45.9: 1,344,962
51: 1,343,478
52: 1,341,955
1,343,368
81: 1,343,571
155— 2: 1,343,594
7: 1,342,235
17: 1,343,523
22: 1,342,518
31: 1,342,715
33: 1,344,216
34: 1,344,901
43: 1,345,268
48: 1,344,277
58: 1,343,124

155— 65: 1,345,333
81: 1,344,940
87: 1,345,105
94: 1,344,092
137: 1,344,431
139: 1,341,689
1,344,097
142: 1,342,650
168: 1,343,119
1,344,402
179: 1,342,522
183: 1,345,187
156— 14: 1,343,933
1,344,093
17: 1,342,527
1,344,448
19: 1,342,099
1,344,412
22: 1,345,170
23: 1,342,070
24: 1,341,742
1,342,230
1,343,126
1,343,284
1,343,859
1,343,997
1,344,298
27: 1,343,771
1,344,703
33: 1,344,233
36: 1,342,017
1,344,358
1,345,097
37: 1,343,069
38: 1,341,758
39: 1,342,298
157— 1: 1,341,728
1,341,729
1,342,295
1,343,992
1,344,889
6: 1,341,726
1,341,727
1,341,730
1,343,893
158— 1.5: 1,344,029
7.5: 1,343,315
7.6: 1,344,438
12: 1,344,341
27.4: 1,344,988
28: 1,341,688
33: 1,343,403
36: 1,342,830
1,343,591
1,345,298
41: 1,343,343
46: 1,343,812
46.5: 1,343,173
1,344,738
56: 1,342,988
57: 1,341,644
63: 1,341,797
1,342,526
1,344,414
64: 1,344,978
69: 1,344,421
75: 1,342,226
76: 1,342,027
1,342,732
88: 1,341,910
91: 1,343,945
92: 1,341,642
1,341,643
99: 1,342,436
1,343,700
106: 1,342,617
110: 1,343,098
111: 1,342,912
117.5: 1,342,901
1,344,049
159— 99: 1,344,555
160— 1: 1,342,176
1,343,693
161— 26: 1,344,440
162— 1: 1,342,128
8: 1,344,887
164— 4: 1,344,488
17.5: 1,342,008
18: 1,343,639
19: 1,344,034
22: 1,344,975
29: 1,343,383
1,343,759
174— 175: 1,344,002
177: 1,341,765
44: 1,342,473
175— 21: 1,343,719
49: 1,342,621
1,343,487
1,344,155
57: 1,343,079
58: 1,342,240
59: 1,345,033
62: 1,341,818
68: 1,343,146
1,344,302
73: 1,343,722

164— 73: 1,344,169
1,344,906
76: 1,342,210
82: 1,345,320
87: 1,344,587
88: 1,344,492
90: 1,342,879
1,344,435
116: 1,342,878
117: 1,342,880
166— 1: 1,342,679
1,342,780
5: 1,342,813
1,342,986
7: 1,341,755
13: 1,342,927
14: 1,343,426
15: 1,345,214
18: 1,342,618
21: 1,342,781
167— 3: 1,343,108
1,343,579
1,344,318
1,345,123
6: R.14,890
1,343,034
168— 3: 1,343,436
19: 1,343,874
31: 1,342,615
169— 2: 1,344,630
8: 1,343,364
11: 1,343,911
21: 1,343,776
22: 1,344,380
32: 1,342,768
39: 1,342,203
1,345,217
170— 32: 1,342,318
38: 1,342,811
40: 1,345,022
154: 1,344,040
159: 1,341,653
163: 1,344,640
165: 1,344,496
1,345,055
171— 119: 1,344,743
123: 1,343,026
1,343,451
229: 1,343,905
1,344,222
241: 1,344,742
242: 1,342,250
1,344,713
252: 1,342,179
309: 1,342,081
1,342,082
313: 1,343,765
1,344,970
314: 1,343,597
1,344,689
1,344,812
324: 1,342,583
172— 8: 1,342,797
1,345,060
36: 1,343,221
1,343,362
179: 1,341,650
1,341,657
1,341,675
1,341,937
1,343,211
1,343,345
1,344,763
240: 1,342,915
276: 1,344,762
285: 1,343,127
288: 1,343,212
1,344,260
289: 1,343,021
1,343,022
1,343,411
173— 31: 1,342,111
1,342,645
263: 1,343,251
269: 1,342,819
318: R.14,888
322: 1,342,787
341: 1,344,206
346: 1,342,658
355: 1,343,573
356: 1,345,091
361: 1,343,676
174— 177: 1,343,512
175— 21: 1,343,719
30: 1,345,066
183: 1,342,816
1,342,837
1,343,352
1,344,062
1,344,387
1,344,388
294: 1,342,219
1,343,018

175— 294: 1,344,730
1,344,759
298: 1,342,546
1,342,547
315: 1,344,753
318: 1,344,752
341: 1,341,629
1,343,404
356: R.14,891
1,342,995
360: 1,342,303
1,342,304
1,342,305
1,342,306
1,342,307
1,342,308
1,342,309
1,342,310
1,342,311
1,342,312
362: 1,342,209
367: 1,343,751
368: 1,341,958
360: 1,342,548
375: 1,344,699
176— 1: 1,344,757
21: 1,342,398
34: 1,344,429
40: 1,341,966
42: 1,343,037
115: 1,344,938
177— 311: 1,343,196
316: 1,344,178
324: 1,344,654
327: 1,345,199
330: 1,343,524
337: 1,341,735
1,342,049
1,342,788
343: 1,343,256
346: 1,343,141
351: 1,342,860
1,342,944
352: 1,342,579
178— 17: 1,341,998
104: 1,341,810
115: 1,343,754
179— 5: 1,344,701
18: 1,342,792
1,342,902
1,343,462
1,343,714
1,343,903
1,343,989
1,344,195
1,344,822
1,345,054
23: 1,344,210
27: 1,342,241
1,342,242
1,342,260
1,342,823
1,343,489
1,345,016
28: 1,342,835
90: 1,341,801
100: 1,342,244
100.1: 1,344,918
107: 1,343,717
122: 1,341,997
1,342,581
1,342,582
124: 1,341,837
147: 1,341,855
171: 1,343,306
1,343,307
1,343,308
176: 1,341,719
188: 1,345,049
180— 1: 1,343,687
4: 1,342,410
1,344,571
6: 1,345,062
9: R.14,868
9.1: 1,341,851
1,344,353
9.2: 1,342,412
1,344,360
1,344,366
1,344,368
12: 1,342,523
1,343,303
14: 1,342,752
1,342,764
1,343,783
16: 1,342,139
19: 1,344,804
20: 1,345,109
26: 1,342,765
1,342,779
33: 1,343,788
42: 1,342,861
43: 1,343,358
49: 1,342,938
1,345,166

180— 50: 1,343,979
54: 1,342,427
1,342,934
1,343,464
64: 1,345,204
68: 1,342,191
69: 1,344,095
70: 1,342,143
75: 1,342,634
82: 1,343,049
84: 1,342,401
89: 1,343,519
181— 24: 1,344,055
26: 1,341,795
27: 1,342,284
1,344,307
31: 1,342,663
182— 2: 1,344,249
183— 4: 1,342,867
1,344,670
7: 1,342,651
1,343,285
1,343,482
1,344,330
82: 1,344,146
83: 1,344,585
184— 1: 1,342,365
6: 1,341,866
1,342,063
1,342,904
13: 1,343,376
1,345,005
18: 1,342,273
24: 1,342,605
27: 1,343,677
60: 1,342,077
65: 1,343,104
69: 1,344,078
89: 1,341,892
185— 37: 1,343,584
38: 1,342,857
41: 1,344,291
45: 1,345,122
186— 14: 1,343,801
21.3: 1,345,111
187— 11: 1,342,982
1,344,271
1,344,272
49: 1,344,266
54: 1,342,832
58: 1,341,863
1,341,864
1,343,328
61: 1,344,430
75: 1,343,118
188— 5: 1,343,116
26: 1,345,165
58: 1,344,309
59: 1,341,830
77: 1,344,003
130: 1,343,970
131: 1,343,973
140: 1,342,381
151: 1,343,389
174: 1,342,407
195: 1,344,129
259: 1,342,043
189— 1: 1,342,021
14: 1,342,828
23: 1,342,847
1,345,196
29: 1,343,543
37: 1,344,229
43: 1,343,739
46: 1,342,482
1,343,545
1,344,540
49: 1,343,757
51: 1,342,400
82: 1,342,818
83: 1,345,002
92: 1,343,384
190— 14: 1,344,872
15: 1,344,408
57: 1,342,677
58: 1,343,195
191— 11: 1,345,093
14: 1,343,475
38: 1,341,878
43: 1,342,034
59: 1,343,592
192— 1: 1,341,673
1,345,327
5: 1,344,597
7: 1,342,270
1,345,100
9: 1,341,796
10: 1,341,635
1,344,361
1,344,399
18: 1,344,726
193— 1: 1,342,117
1,343,417
1,344,013
1,345,088

193— 2: 1,342,684
1,342,975
1,343,369
3: 1,341,697
4: 1,344,006
1,344,246
1,345,136
1,345,301
6: 1,343,184
7: 1,342,786
8: 1,343,799
13: 1,342,189
14: 1,344,396
23: 1,344,171
24: 1,344,768
33: 1,343,675
44: 1,342,456
48: 1,342,598
51: 1,345,172
53: 1,342,341
60: 1,343,373
194— 1: 1,341,921
6: 1,344,251
9: 1,341,749
37: 1,342,858
61: 1,343,999
74: 1,344,484
85: 1,344,769
195— 1: R.14,889
1,343,587
196— 3: 1,345,133
1,345,134
21: 1,343,100
25: 1,341,975
1,343,674
1,344,258
26: 1,342,790
1,344,671
27: 1,345,132
197— 27: 1,342,197
66: 1,342,940
69: 1,344,837
82: 1,342,466
1,342,489
1,342,490
91: 1,342,941
97: 1,342,186
135: 1,342,174
139: 1,343,509
183: 1,344,304
186: 1,342,513
199— 1: 1,345,286
31: 1,342,596
33: 1,342,980
55: 1,342,595
57: 1,343,171
200— 6: 1,341,668
17: 1,343,214
1,343,219
1,343,232
18: 1,343,218
24: 1,344,395
42: 1,344,958
48: 1,343,793
50: 1,342,549
1,342,550
52: 1,342,591
55: 1,344,783
57: 1,342,468
1,345,116
59: 1,341,932
1,345,259
60: 1,344,735
67: 1,341,764
84: 1,343,947
1,344,904
87: 1,341,867
88: R.14,881
91: 1,342,256
97: 1,344,196
1,344,197
1,244,199
98: 1,343,880
106: 1,343,961
108: 1,341,678
118: 1,343,039
120: R.14,897
130: 1,344,296
1,344,359
132: 1,341,662
140: 1,342,317
142: 1,343,803
1,344,471
144: 1,341,631
145: 1,342,999
153: 1,342,015
156: 1,342,229
164: 1,343,109
166: 1,342,674
169: 1,342,972
171: 1,344,925
1,342,910
201— 5: 1,342,378
1,342,899

204— 5: 1,344,220
8: 1,341,790
9: 1,342,737
1,344,031
10: 1,344,030
15: 1,341,786
1,342,804
1,344,127
1,344,681
19: 1,343,662
29: 1,341,713
1,342,068
1,342,511
1,342,611
1,342,952
1,342,953
1,342,954
1,343,380
1,343,708
1,343,957
31: 1,342,084
1,343,948
1,344,153
38: 1,342,001
57: 1,344,809
58: 1,342,336
63: 1,341,939
64: 1,342,636
1,342,809
205— 13: 1,344,568
16: 1,341,986
22: 1,341,664
206— 2: 1,341,871
1,344,771
3: 1,343,374
15.1: 1,342,521
16: 1,345,247
27: 1,342,695
31: 1,343,354
1,345,078
33: 1,344,746
37: 1,342,116
38: 1,341,857
41: 1,342,512
1,344,635
1,344,716
44: 1,343,420
46: 1,342,069
47: 1,344,135
1,344,927
49: 1,345,185
51: 1,344,110
53: 1,345,129
56: 1,343,360
57: 1,341,974
59: 1,342,909
64: 1,343,934
1,344,481
207— 11: 1,344,577
208— 15: 1,344,382
21: 1,343,616
32: 1,345,127
34: 1,344,108
1,343,995
42: 1,344,440
35: 1,344,494
38: 1,343,903
1,343,904
1,345,092
55: 1,341,725
57: 1,341,983
91: 1,344,226
97: 1,343,820
113: 1,342,688
114: 1,342,386
138: 1,342,388
1,343,916
165: 1,341,768
1,342,720
1,343,566
1,344,548
210— 5: 1,345,090
6: 1,343,764
16: 1,341,913
1,343,679
18: 1,343,797
25: 1,342,405
1,342,743
1,343,078
1,343,710
54: 1,344,370
178: 1,343,182
195: 1,342,829
1,342,839
1,343,264
1,345,006
62: 1,344,080
200: 1,344,215
211— 8: 1,342,733
1,343,974
1,344,142
1,344,160
1,344,692
1,342,674
12: 1,341,827
1,342,265
1,344,391
1,344,665
1,344,697
1,345,017

211— 14: 1,341,848
1,342,364
1,344,239
1,344,027
1,345,158
1,345,244
20: 1,343,794
24: 1,342,313
1,342,731
25: 1,341,822
1,343,681
27: 1,341,852
1,343,327
1,343,818
1,344,106
28: R.14,877
1,343,526
29: 1,342,853
32: 1,341,862
34: 1,343,651
37: 1,341,695
212— 3: 1,232,630
4: 1,344,218
8: 1,342,480
49: 1,344,659
55: 1,345,008
1,345,304
58: 1,342,959
1,343,966
73: 1,343,756
77: 1,343,434
125: 1,342,217
213— 17: 1,344,780
42: 1,342,586
1,342,696
1,342,697
1,344,183
1,344,184
1,344,185
1,344,979
1,344,980
1,344,981
64: 1,341,295
1,343,296
67: 1,341,918
1,342,011
1,342,725
220— 1: 1,343,779
6: 1,344,877
7: 1,345,264
8: 1,344,601
9: 1,343,688
10: 1,343,169
17: 1,341,960
21: 1,343,629
24: 1,343,480
1,344,650
25: 1,342,740
1,342,742
1,342,743
1,342,744
1,342,745
1,342,746
1,342,747
64: 1,341,951
84: 1,344,478
95: 1,342,173
99: 1,341,711
100: 1,344,949
103: 1,343,696
1,344,985
104: 1,343,924
122: 1,343,802
123: 1,342,333
142: 1,342,948
143: 1,343,286
223— 17: 1,344,612
19: 1,343,397
20: 1,342,937
21: 1,342,147
31: 1,343,185
32: 1,343,729
224— 2: 1,342,395
7: 1,341,722
19: 1,344,377
21: 1,343,726
28: 1,342,301
29: 1,342,557
1,343,964
1,344,202
1,344,729
1,344,944
48: 1,341,869
226— 37: 1,343,867

215— 1: 1,341,826
1,342,568
1,342,747
1,343,760
1,343,962
1,342,657
1,341,680
1,345,182
1,345,279
1,343,013
1,341,897
1,342,039
1,342,321
1,343,299
118: 1,342,883
216— 6: 1,343,106
9: 1,344,081
53: 1,343,264
54: 1,345,006
62: 1,344,080
217— 4: 1,343,809
5: 1,345,263
15: 1,342,750
47: 1,344,543
60: 1,342,325
1,343,347
1,345,261
62: 1,345,205
64: 1,341,927
1,342,243
66: 1,344,576
72: 1,344,876

217— 79: 1,344,098
218— 2.1: 1,342,331
15: 1,341,763
219— 3: 1,341,908
1,344,961
4: 1,344,415
8: 1,341,647
1,343,194
1,343,242
10: 1,342,717
1,342,957
1,344,125
11: 1,343,996
15: 1,243,199
1,343,200
1,343,201
1,343,202
1,343,203
1,343,204
1,343,205
1,343,206
1,343,207
1,343,208
1,343,607
19: 1,345,004
25: 1,342,864
1,342,905
1,344,741
35: 1,341,903
1,341,994
37: 1,344,282
38: 1,343,053
1,343,848
1,344,308
39: 1,343,134
41: 1,345,222
46: 1,344,581
1,345,249
48: 1,342,594
1,345,080
49: 1,342,061
1,343,689
1,343,690
50: 1,348,472
51: 1,345,015
63: 1,344,406
76: 1,342,842
220— 1: 1,343,779
6: 1,344,877
7: 1,345,264
8: 1,344,601
9: 1,343,688
10: 1,343,169
17: 1,341,960
21: 1,343,629
24: 1,343,480
1,344,650
25: 1,342,740
1,342,742
1,342,743
1,342,744
1,342,745
1,342,746
1,342,747
64: 1,341,951
84: 1,344,478
95: 1,342,173
99: 1,341,711
100: 1,344,949
103: 1,343,696
1,344,985
104: 1,343,924
122: 1,343,802
123: 1,342,333
142: 1,342,948
143: 1,343,286
223— 17: 1,344,612
19: 1,343,397
20: 1,342,937
21: 1,342,147
31: 1,343,185
32: 1,343,729
224— 2: 1,342,395
7: 1,341,722
19: 1,344,377
21: 1,343,726
28: 1,342,301
29: 1,342,557
1,343,964
1,344,202
1,344,729
1,344,944
48: 1,341,869
226— 37: 1,343,867

226— 93: 1,342,859
96: 1,344,653
227— 5: 1,343,642
228— 4: 1,343,500
23: 1,342,153
29: 1,341,707
1,342,542
33: 1,342,881
50: 1,344,371
54: 1,343,094
58: 1,343,445
1,344,886
229— 3: 1,342,013
1,343,724
1,345,021
1,345,036
5: 1,343,235
6: 1,343,252
14: 1,343,391
1,344,147
16: 1,342,769
17: 1,341,893
1,342,770
32: 1,343,193
39: 1,343,002
53: 1,341,831
1,341,834
68: 1,343,075
73: 1,344,071
1,344,394
92.3: 1,343,419
230— 2: 1,343,004
11: 1,341,882
1,342,592
13: 1,343,922
1,344,967
24: 1,343,975
27: 1,342,338
32: 1,343,270
32: 1,344,994
232— 19: 1,344,281
45: 1,342,890
62: 1,343,151
233— 1: 1,343,325
19: 1,344,519
20: 1,344,055
234— 43: 1,344,059
235— 1: 1,343,535
32: 1,344,840
1,344,841
1,344,842
1,344,898
55: 1,342,476
59: 1,345,102
60: 1,342,969
1,344,191
61: 1,343,198
70: 1,343,549
71: 1,341,962
74: 1,344,190
82: 1,342,459
87: 1,343,660
91: 1,343,875
100: 1,344,086
139: 1,311,995
144: 1,343,988
236— 19: 1,344,423
22: 1,344,422
44: 1,343,873
1,343,894
45: 1,341,881
1,343,162
80: R. 14,894
R. 14,895
237— 2: 1,343,330
17: 1,342,509
56: 1,342,214
61: 1,345,149
78: 1,343,718
79: 1,343,414
238— 3: 1,342,002
8: 1,343,809
10: 1,342,281
14: 1,344,238
31: 1,343,813
37: 1,344,926
61: 1,343,262
62: 1,342,420
99: 1,345,287
117: 1,344,676
122: 1,343,001
179: 1,342,228
188: 1,344,604
197: 1,344,336
205: 1,342,065
206: 1,342,251
207: 1,342,323
210: 1,345,126
216: 1,341,931
226: 1,342,377
231: 1,343,605
237: 1,342,006
271: 1,343,814
279: 1,343,070
292: 1,342,194
238— 292: 1,344,109
294: 1,342,661
312: 1,344,808
324: 1,343,563
1,344,016
330: 1,344,014
1,344,015
333: 1,342,078
345: 1,342,196
240— 1: 1,342,330
1,342,777
1,342,778
1,342,894
2: 1,343,767
1,345,168
8.5: 1,342,322
9: 1,344,084
17.5: 1,345,212
23: 1,343,899
41: 1,341,674
1,342,215
1,342,426
1,343,309
1,344,687
1,344,694
1,344,695
1,345,056
48.4: 1,342,744
1,343,886
1,344,164
1,345,073
48.6: 1,344,594
52: 1,344,073
61: 1,341,947
1,343,822
1,344,811
62: 1,343,143
73: 1,341,681
78: 1,344,452
85: 1,344,077
111: 1,341,845
119: 1,343,705
241— 4: 1,342,666
1,344,856
6: 1,345,193
12: 1,342,704
1,342,930
242— 32: 1,343,481
43.3: 1,343,333
43.6: 1,344,449
44: 1,344,432
46.5: 1,343,839
55: 1,342,556
66: 1,342,532
70: 1,343,628
75: 1,343,910
77: 1,341,815
1,341,816
1,341,817
84.4: 1,344,289
84.5: 1,345,072
85: 1,342,653
95: 1,342,749
110: 1,344,567
115: 1,343,067
130: 1,345,190
146: 1,341,274
147: 1,344,672
149: 1,344,400
156: 1,343,768
159: 1,343,238
243— 6: 1,342,531
244— 1: 1,342,802
1,342,871
1,343,831
1,345,276
2: 1,342,138
1,343,769
1,345,335
6: 1,343,428
9: 1,343,055
12: 1,341,641
1,341,886
1,342,998
1,343,433
1,343,498
1,344,520
1,344,999
14: 1,344,314
15: 1,342,145
18: 1,344,283
1,344,661
19: 1,344,486
1,345,101
1,345,159
21: 1,341,783
1,341,794
1,342,221
1,344,044
25: 1,344,297
29: 1,342,385
1,343,850
30: 1,344,634
31: 1,341,758
1,342,353
244— 31: 1,343,707
1,344,244
1,344,765
1,345,024
1,345,176
14: 1,341,772
39: 1,344,070
41: 1,341,982
45: 1,342,873
46: 1,344,917
54: 1,344,308
63: 1,342,644
71: 1,342,572
124: 1,342,635
126: 1,343,467
1,344,776
128: 1,344,525
158: 1,343,133
170: 1,344,231
1,344,232
181: 1,341,753
186: 1,343,857
273: 1,344,957
301: 1,344,766
304: 1,345,073
370: 1,344,487
375: 1,344,866
437: 1,343,483
449: 1,344,259
450: 1,344,848
464: 1,342,332
485: 1,342,962
487: 1,343,841
488: 1,344,561
40: 1,344,501
246— 5: 1,345,176
14: 1,341,772
39: 1,344,070
41: 1,341,982
45: 1,342,873
46: 1,344,917
54: 1,344,308
63: 1,342,644
71: 1,342,572
124: 1,342,635
126: 1,343,467
1,344,776
128: 1,344,525
158: 1,343,133
170: 1,344,231
1,344,232
181: 1,341,753
186: 1,343,857
273: 1,344,957
301: 1,344,766
304: 1,345,073
370: 1,344,487
375: 1,344,866
437: 1,343,483
449: 1,344,259
450: 1,344,848
464: 1,342,332
485: 1,342,962
487: 1,343,841
488: 1,344,561
40: 1,344,501
247— 10: 1,342,345
248— 1: 1,342,889
7: 1,342,659
20: 1,341,935
1,343,499
1,343,965
1,344,344
1,345,042
1,345,252
27: 1,343,363
28.5: 1,344,736
30: 1,341,902
1,342,196
1,343,568
1,344,376
31: 1,343,279
32: 1,343,930
34: 1,344,514
48: 1,343,855
49: 1,343,381
57: 1,343,340
249— 19: 1,342,670
250— 1: 1,343,393
8: 1,343,165
1,343,562
11: 1,342,257
19: 1,344,052
20: 1,342,885
1,344,275
27: 1,342,399
1,343,551
34: 1,343,599
36: R. 14,896
40: 1,345,007
251— 5: 1,344,433
6: 1,343,609
1,345,248
8: 1,345,032
18: 1,342,620
78: 1,342,734
91: 1,342,051
98: 1,342,900
105: 1,344,490
109: 1,343,490
112: 1,344,364
119: 1,342,216
1,343,534
123: 1,341,870
126: 1,343,311
133: 1,343,043
137: 1,343,951
144: 1,344,744
145: 1,343,375
1,344,614
160: 1,342,419
165: 1,343,530
1,344,704
167: 1,342,955
252— 1,341,901
1,343,585
1,344,102
1,344,691
1,345,144
1,345,305
1,345,306
1,344,133
253— 3: 1,342,845
18: 1,342,613
28: 1,342,100
253— 57: 1,344,193
69: 1,343,956
77: 1,344,311
120: 1,341,859
180: 1,342,551
188: 1,344,509
199: 1,342,552
254— 1: 1,341,856
2: 1,343,864
18: 1,344,628
52: 1,344,485
67: 1,343,336
72: 1,342,625
1,345,265
76: 1,345,310
77: 1,344,312
78: 1,344,472
83: 1,341,698
86: 1,343,274
1,343,845
1,344,036
91: 1,342,389
93: 1,343,701
94: 1,343,275
98: 1,344,575
1,345,135
103: 1,343,732
1,344,117
114: 1,343,430
130: 1,345,178
131: 1,342,057
1,343,802
166: 1,343,625
186: 1,342,757
255— 23: 1,341,702
26: 1,343,541
1,343,542
28: 1,342,855
35: 1,342,870
1,343,821
61: 1,342,814
69: 1,343,902
70: 1,345,285
73: 1,345,299
75: 1,342,406
1,344,327
256— 14: 1,344,262
15: 1,344,535
1,345,146
54: 1,343,770
58: 1,343,544
73: 1,342,453
1,343,367
1,343,559
257— 7: 1,344,057
24: 1,342,471
98: 1,343,833
129: 1,341,784
1,343,352
1,344,351
130: 1,344,772
132: 1,343,919
1,345,283
133: 1,341,649
136: 1,341,879
142: 1,342,680
227: 1,343,669
229: 1,344,381
258— 8: 1,344,912
259— 48: 1,340,902
72: 1,343,091
85: 1,344,937
88: 1,341,743
91: 1,343,532
95: 1,342,947
100: 1,342,866
104: 1,344,675
113: 1,345,312
125: 1,344,022
134: 1,343,829
134: 1,344,565
261— 23: 1,342,103
39: 1,343,455
41: 1,345,297
43: 1,342,445
44: R. 14,880
1,342,107
49: 1,344,696
92: 1,345,131
75: 1,342,810
118: 1,342,167
122: 1,343,123
1,344,123
262— 3: 1,342,741
30: 1,344,201
263— 2: 1,341,928
4: 1,343,045
5: 1,342,932
1,343,092
1,344,021
1,345,188
6: 1,343,019
9: 1,342,958
11: 1,343,470
12: 1,344,878
263— 14: 1,343,843
15: 1,344,436
1,344,437
1,344,458
23: 1,342,694
28: 1,342,041
36: 1,341,661
40: 1,344,690
46: 1,341,970
1,343,457
265— 7: 1,344,295
1,344,339
9: 1,343,476
12: 1,343,611
23: 1,344,315
42: 1,342,246
1,343,556
54: 1,345,180
71: 1,344,806
266— 5: 1,342,171
6: 1,342,112
23: 1,342,502
1,345,242
30: 1,341,872
1,342,073
46: 1,342,074
267— 1: 1,345,171
15: 1,344,683
17: 1,343,027
20: 1,344,204
26: 1,344,593
36: 1,341,805
1,344,792
50: R. 14,870
1,342,172
1,343,453
54: 1,342,623
64: 1,343,560
67: 1,342,514
70: 1,344,068
268— 6: 1,343,925
9: 1,341,775
18: 1,344,561
21: 1,345,010
270— 5: 1,343,931
31: 1,343,339
53: 1,343,231
271— 29: 1,342,630
50: 1,344,167
52: 1,343,791
53: 1,341,694
1,343,608
54: 1,343,648
55: 1,344,810
82: 1,342,187
1,345,300
272— 1,341,639
273— 1: 1,343,156
2: 1,343,622
9: 1,343,640
10: 1,341,751
1,342,442
14: 1,343,087
25: 1,344,931
27: 1,342,662
34: 1,344,186
38: 1,343,507
1,344,839
275— 2: 1,342,296
8: 1,343,265
277— 7: 1,343,488
46: 1,343,735
70: 1,342,719
279— 59: 1,343,795
60: 1,343,086
81: 1,341,934
104: 1,343,552
280— 5: 1,342,266
6: 1,343,268
11: 1,343,046
13: 1,345,307
1,345,321
30: 1,345,322
33.1: 1,343,790
33.4: 1,343,197
33.5: 1,342,979
1,342,507
40: 1,343,000
53: 1,342,437
56: 1,342,585
1,343,650
87.5: 1,344,023
96.1: 1,344,192
96.2: 1,343,774
104: 1,344,334
106: 1,343,682
1,344,209
145: 1,343,772
179: 1,342,654
332: 1,344,033
281— 7: 1,342,707
15: 1,343,778
21: 1,341,782
31: 1,345,329
282— 16: 1,344,909
282— 27: 1,343,762
283— 1: 1,341,633
1,341,634
9: 1,343,865
1,344,235
36: 1,344,627
41: 1,343,755
58: 1,343,110
63: 1,343,082
1,343,879
284— 6: 1,343,852
10: 1,343,084
14: 1,344,827
17: 1,344,539
18: 1,343,819
19: 1,342,678
285— 3: 1,345,124
22: 1,342,286
1,344,922
25: 1,342,133
26: 1,343,877
52: 1,342,825
58: R. 14,873
84: 1,343,967
86: 1,343,853
91: 1,344,834
94: 1,345,334
146: 1,344,221
1,344,774
161: 1,342,936
163: 1,344,028
177: 1,342,671
187: 1,342,000
189: 1,343,228
194: 1,343,463
197: 1,344,914
286— 7: 1,342,131
1,343,603
36: 1,344,347
287— 19: 1,342,392
32: 1,343,781
33: 1,342,929
36: 1,342,495
53: 1,343,733
103: 1,344,425
290— 27: 1,344,814
31: 1,342,409
1,343,409
35: 1,344,870
36: 1,343,028
1,343,029
1,343,030
38: 1,341,658
1,341,659
1,341,660
1,343,222
48: 1,342,478
1,343,020
291— 34: 1,342,316
292— 21: 1,345,041
61: 1,344,048
74: 1,344,644
78: 1,344,508
121: 1,344,647
146: 1,345,031
189: 1,342,961
209: 1,344,038
212: 1,343,851
228: 1,343,322
240: 1,342,563
259: 1,344,444
275: 1,344,507
281: 1,342,361
315: 1,344,491
336: 1,341,802
347: 1,341,969
1,342,058
293— 9: 1,343,727
35: 1,344,213
52: 1,342,402
55: 1,341,917
1,342,290
1,342,374
1,342,393
1,343,740
1,343,741
1,344,649
1,344,796
1,344,797
1,344,798
1,344,799
1,345,106
294— 28: 1,343,518
31: 1,342,758
43: 1,345,035
57: 1,342,467
68: 1,342,018
69: 1,342,414
79: 1,345,112
82: 1,344,320
83: 1,344,187
85: 1,343,641
90: 1,341,957
1,345,103
118: 1,343,057

294— 118: 1,344,174
295— 39: 1,345,933
47: 1,344,460
50: 1,344,600
296— 8.5: R. 14,872
25: 1,344,717
35: 1,344,572
52: 1,342,705
59: 1,343,263
66: 1,343,655
296— 66: 1,344,546
76: 1,343,068
77: 1,343,847
84: 1,342,794
1,343,318
1,343,440
1,345,053
85: 1,345,061
92: 1,342,183
96: 1,344,844
296— 97: 1,342,347
116: 1,342,012
137: 1,341,687
138: 1,342,831
1,345,086
139: 1,343,148
141: 1,345,174
145: 1,342,460
298— 7: 1,344,100
298— 10: 1,342,919
11: 1,342,628
19: 1,342,472
1,343,283
299— 15: 1,344,948
93: 1,342,580
116: 1,343,780
129: 1,342,124
133: 1,342,486
141: 1,343,412
299— 152: 1,344,383
301— 17: 1,344,212
39: 1,344,512
40: 1,343,936
303— 14: 1,345,181
20: 1,343,210
52: 1,343,695
62: 1,343,694
304— 26: 1,343,546
40: 1,344,139
1,345,012
305— 9: 1,344,363
10: 1,341,761
1,343,958
1,344,373
1,344,398

OFFICIAL GAZETTE

UNITED STATES PATENT OFFICE

APR. THRU JUNE

VOL. 273 - 275

1920

MICRO PHOTO INC.
CLEVELAND, OHIO